



Full wwPDB/EMDatabank EM Map/Model Validation Report ⓘ

Mar 2, 2017 – 11:55 am GMT

PDB ID : 4AV2
EMDB ID: : EMD-2105
Title : Single particle electron microscopy of PilQ dodecameric complexes from *Neisseria meningitidis*.
Authors : Berry, J.L.; Phelan, M.M.; Collins, R.F.; Adomavicius, T.; Tonjum, T.; Frye, S.A.; Bird, L.; Owens, R.; Ford, R.C.; Lian, L.Y.; Derrick, J.P.
Deposited on : 2012-05-23
Resolution : 26.00 Å(reported)

This is a Full wwPDB/EMDatabank EM Map/Model Validation Report
for a publicly released PDB/EMDB entry.

We welcome your comments at validation@mail.wwpdb.org
A user guide is available at
<http://wwpdb.org/validation/2016/EMValidationReportHelp>
with specific help available everywhere you see the ⓘ symbol.

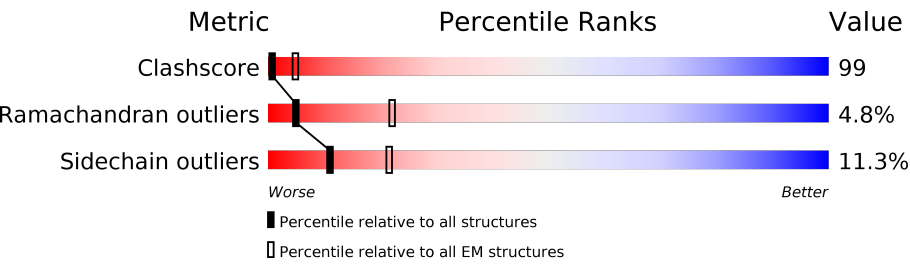
MolProbity : 4.02b-467
Percentile statistics : 20161228.v01 (using entries in the PDB archive December 28th 2016)
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et. al. (1996)
Validation Pipeline (wwPDB-VP) : recalc29047

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 26.00 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	125131	1336
Ramachandran outliers	121729	1120
Sidechain outliers	121581	1026

The table below summarises the geometric issues observed across the polymeric chains. The red, orange, yellow and green segments on the bar indicate the fraction of residues that contain outliers for ≥ 3 , 2, 1 and 0 types of geometric quality criteria. A grey segment represents the fraction of residues that are not modelled. The numeric value for each fraction is indicated below the corresponding segment, with a dot representing fractions $\leq 5\%$

Mol	Chain	Length	Quality of chain
1	A	745	9% 25% . 63%
1	B	745	9% 25% . 63%
1	C	745	9% 25% . 63%
1	D	745	9% 25% . 63%
1	E	745	9% 25% . 63%
1	F	745	9% 25% . 63%
1	G	745	9% 25% . 63%
1	H	745	9% 25% . 63%
1	I	745	9% 25% . 63%

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Mol	Chain	Length	Quality of chain
1	J	745	
1	K	745	
1	L	745	
2	M	181	
2	N	181	
2	O	181	
2	P	181	
2	Q	181	
2	R	181	
2	S	181	
2	T	181	
2	U	181	
2	V	181	
2	W	181	
2	X	181	

2 Entry composition

There are 2 unique types of molecules in this entry. The entry contains 34704 atoms, of which 1152 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 TYPE IV PILUS BIOGENESIS AND COMPETENCE PROTEIN PILQ.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	A	275	Total	C	N	O	S	0	1
			2152	1354	379	415	4		
1	B	275	Total	C	N	O	S	0	1
			2152	1354	379	415	4		
1	C	275	Total	C	N	O	S	0	1
			2152	1354	379	415	4		
1	D	275	Total	C	N	O	S	0	1
			2152	1354	379	415	4		
1	E	275	Total	C	N	O	S	0	1
			2152	1354	379	415	4		
1	F	275	Total	C	N	O	S	0	1
			2152	1354	379	415	4		
1	G	275	Total	C	N	O	S	0	1
			2152	1354	379	415	4		
1	H	275	Total	C	N	O	S	0	1
			2152	1354	379	415	4		
1	I	275	Total	C	N	O	S	0	1
			2152	1354	379	415	4		
1	J	275	Total	C	N	O	S	0	1
			2152	1354	379	415	4		
1	K	275	Total	C	N	O	S	0	1
			2152	1354	379	415	4		
1	L	275	Total	C	N	O	S	0	1
			2152	1354	379	415	4		

There are 12 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	428	PHE	LEU	VARIANT	UNP Q70M91
B	428	PHE	LEU	VARIANT	UNP Q70M91
C	428	PHE	LEU	VARIANT	UNP Q70M91
D	428	PHE	LEU	VARIANT	UNP Q70M91
E	428	PHE	LEU	VARIANT	UNP Q70M91

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Chain	Residue	Modelled	Actual	Comment	Reference
F	428	PHE	LEU	VARIANT	UNP Q70M91
G	428	PHE	LEU	VARIANT	UNP Q70M91
H	428	PHE	LEU	VARIANT	UNP Q70M91
I	428	PHE	LEU	VARIANT	UNP Q70M91
J	428	PHE	LEU	VARIANT	UNP Q70M91
K	428	PHE	LEU	VARIANT	UNP Q70M91
L	428	PHE	LEU	VARIANT	UNP Q70M91

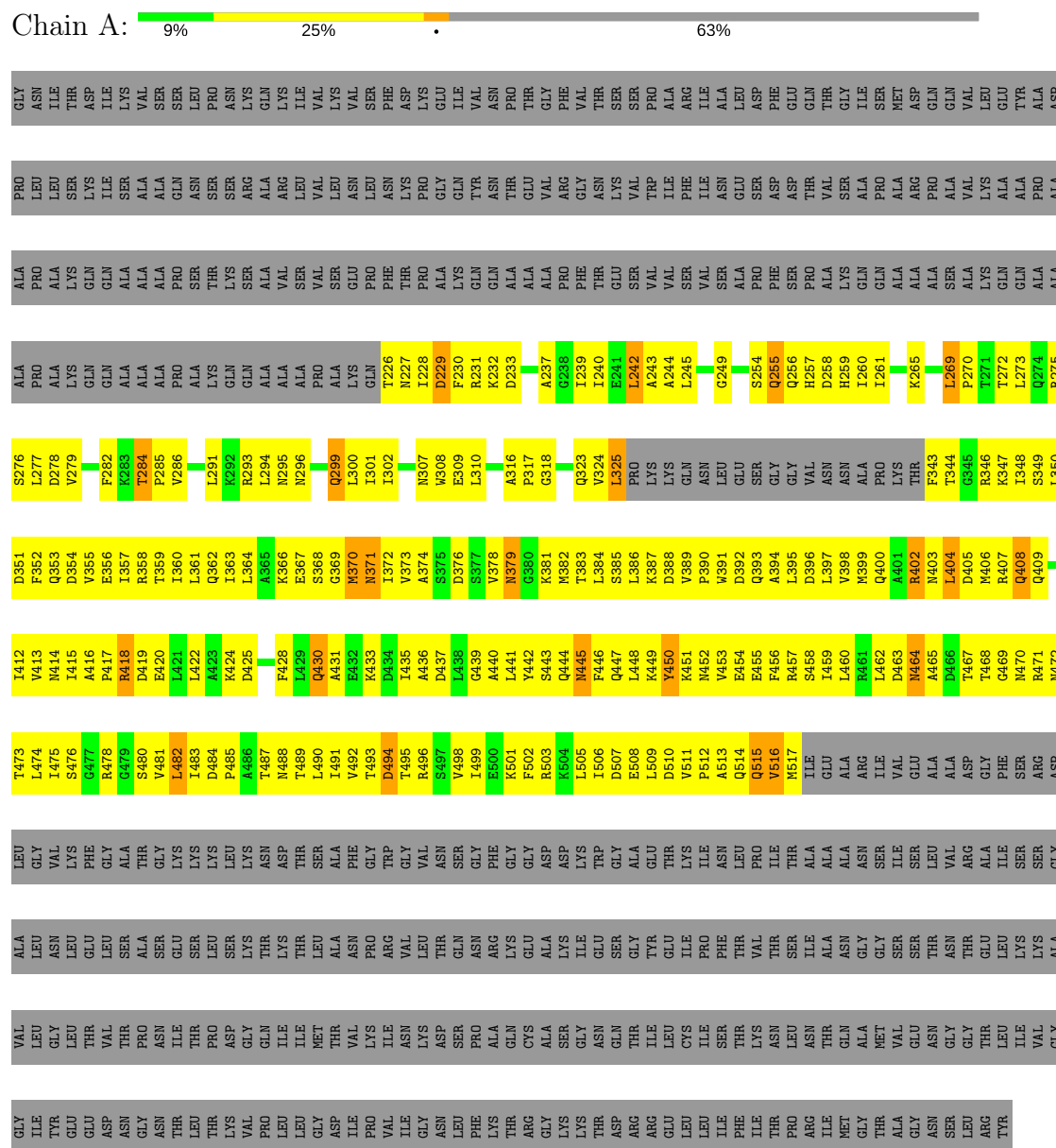
- Molecule 2 is a protein called PILP PROTEIN.

Mol	Chain	Residues	Atoms						AltConf	Trace
2	M	82	Total	C	H	N	O	S	0	0
			740	407	96	105	131	1		
2	N	82	Total	C	H	N	O	S	0	0
			740	407	96	105	131	1		
2	O	82	Total	C	H	N	O	S	0	0
			740	407	96	105	131	1		
2	P	82	Total	C	H	N	O	S	0	0
			740	407	96	105	131	1		
2	Q	82	Total	C	H	N	O	S	0	0
			740	407	96	105	131	1		
2	R	82	Total	C	H	N	O	S	0	0
			740	407	96	105	131	1		
2	S	82	Total	C	H	N	O	S	0	0
			740	407	96	105	131	1		
2	T	82	Total	C	H	N	O	S	0	0
			740	407	96	105	131	1		
2	U	82	Total	C	H	N	O	S	0	0
			740	407	96	105	131	1		
2	V	82	Total	C	H	N	O	S	0	0
			740	407	96	105	131	1		
2	W	82	Total	C	H	N	O	S	0	0
			740	407	96	105	131	1		
2	X	82	Total	C	H	N	O	S	0	0
			740	407	96	105	131	1		

3 Residue-property plots

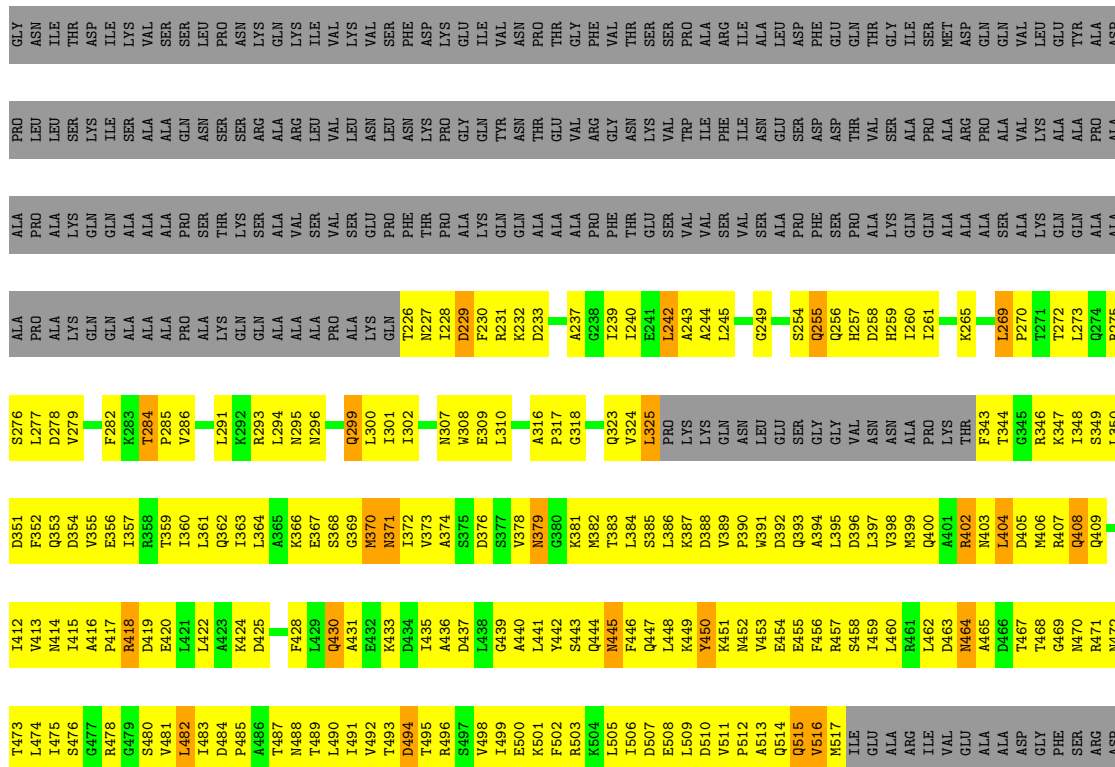
These plots are drawn for all protein, RNA and DNA chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry. Residues are color-coded according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

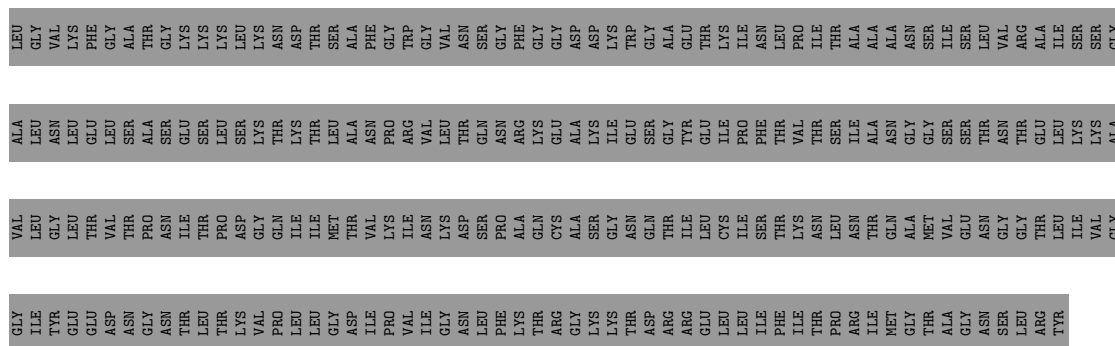
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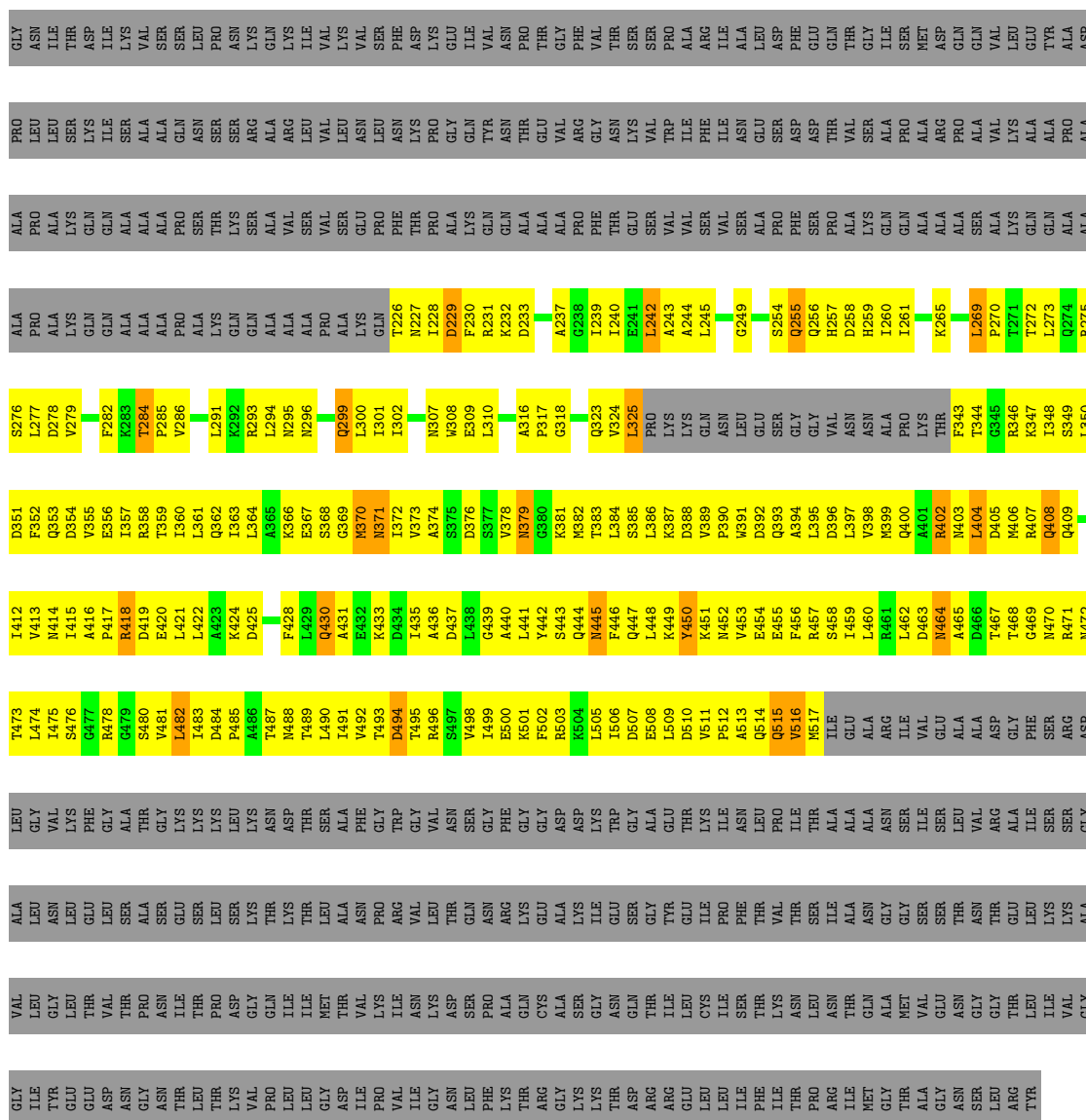
- Molecule 1: TYPE IV PILUS BIOGENESIS AND COMPETENCE PROTEIN PILQ

[illegible][illegible]



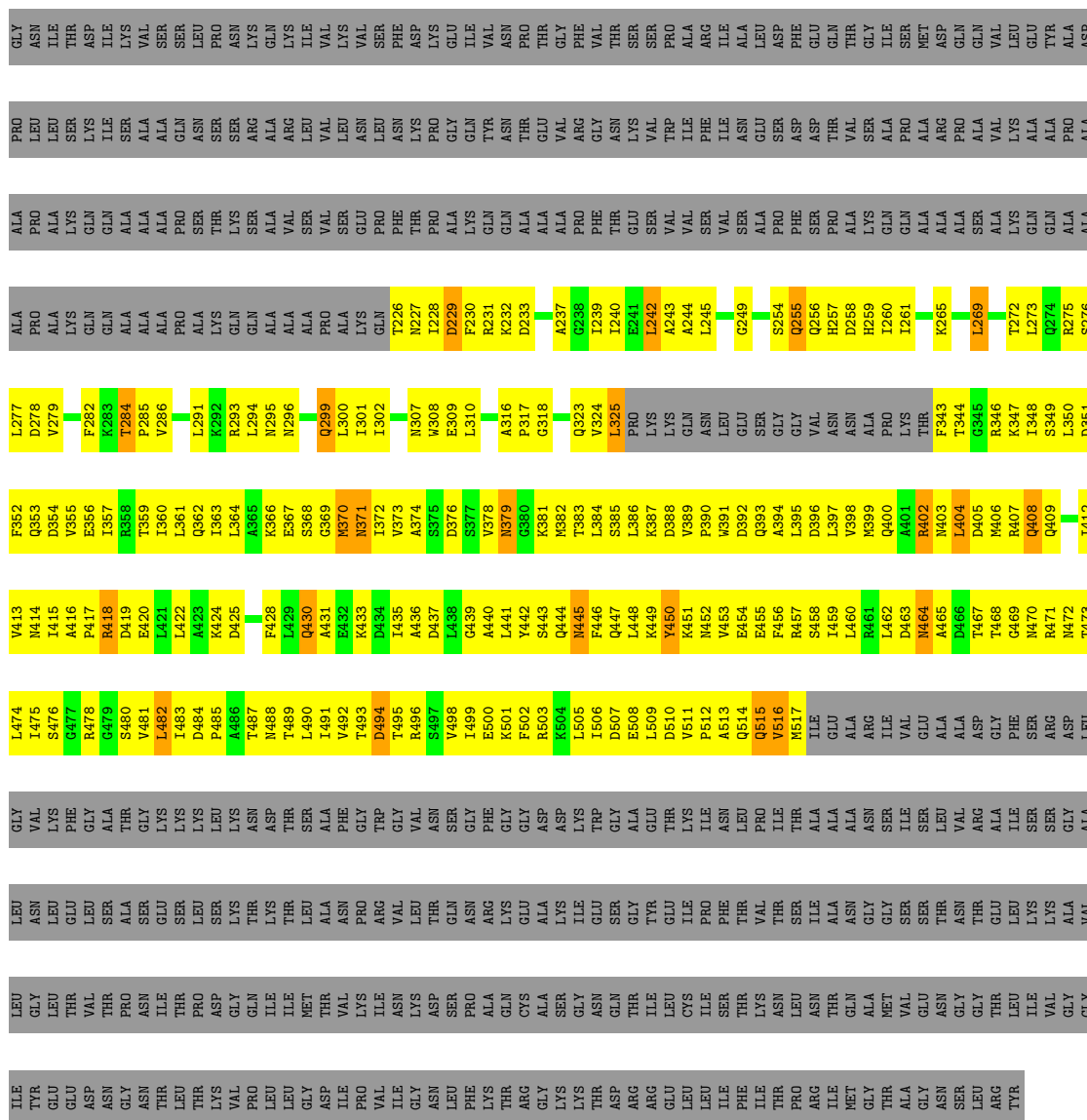


- Molecule 1: TYPE IV PILUS BIOGENESIS AND COMPETENCE PROTEIN PILQ



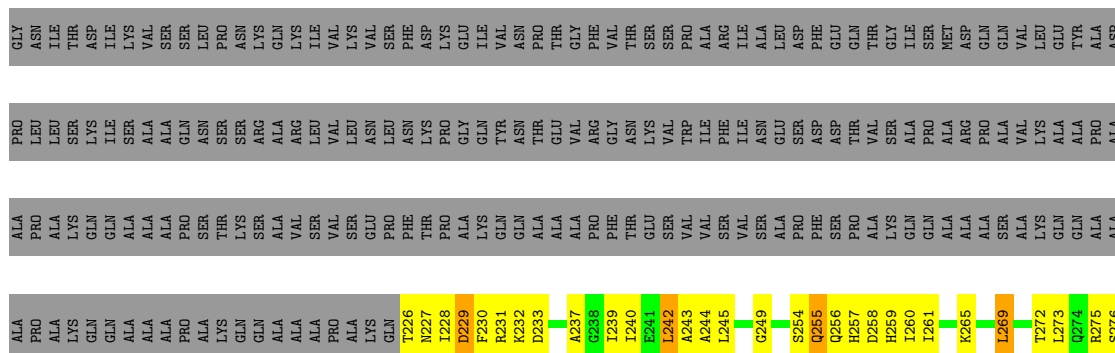
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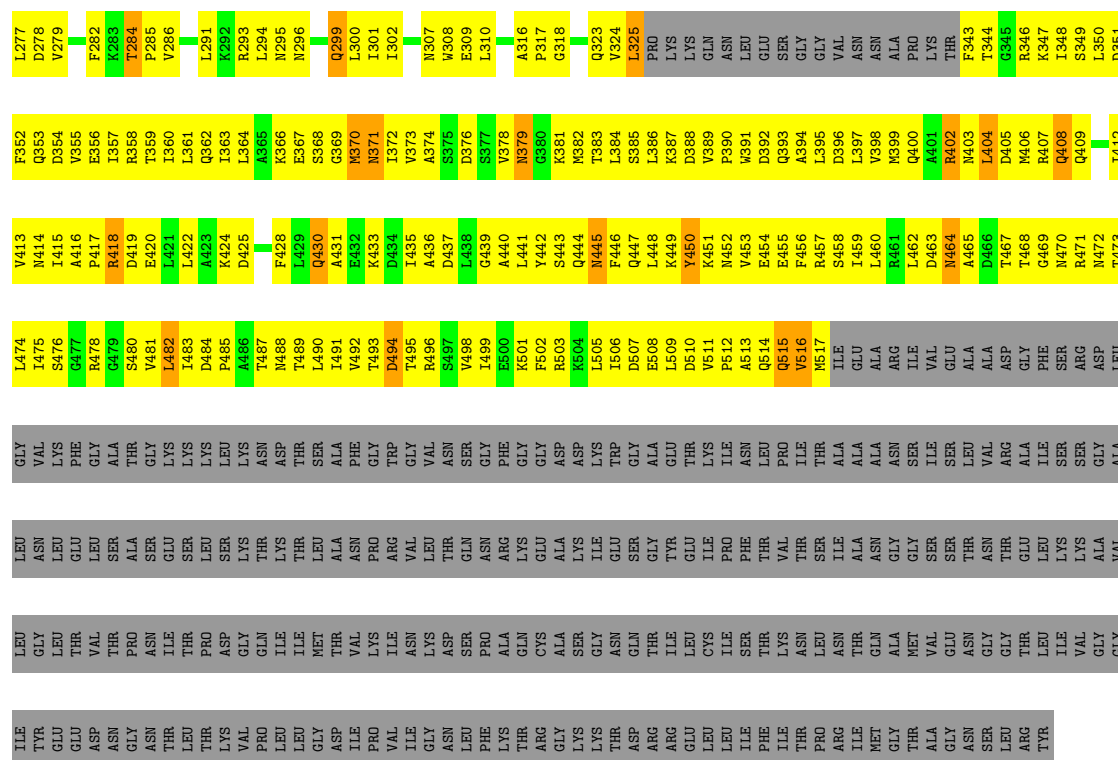
Chain F:



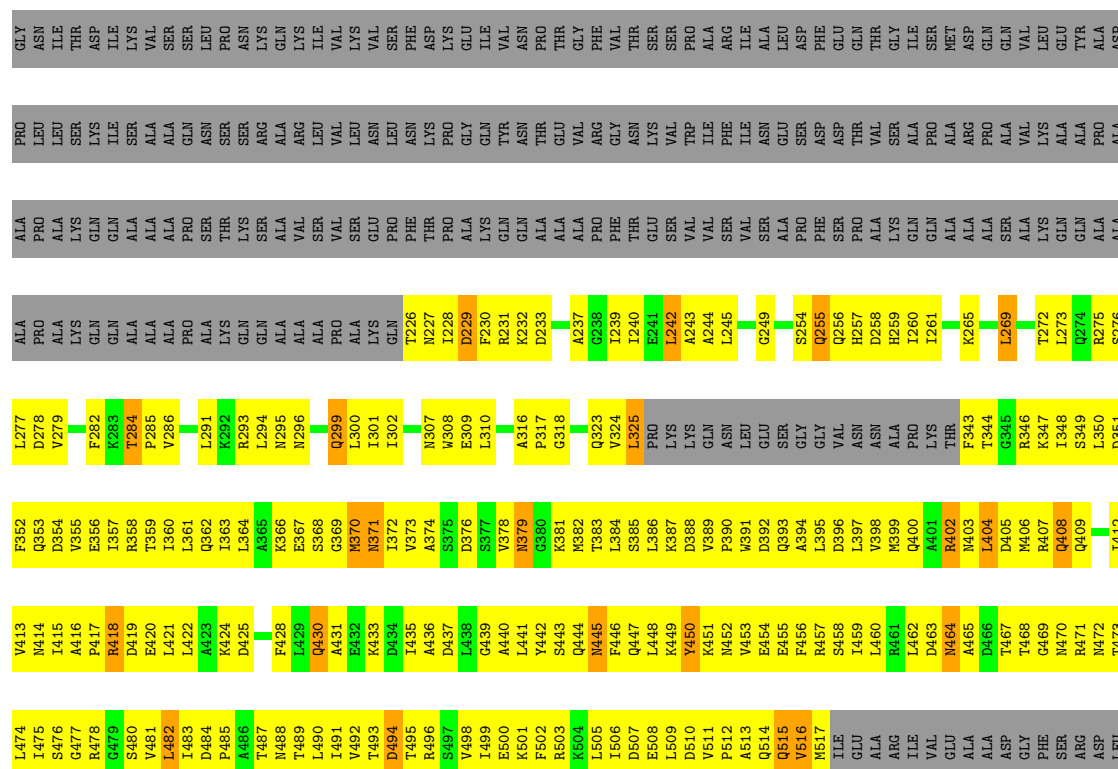
- Molecule 1: TYPE IV PILUS BIOGENESIS AND COMPETENCE PROTEIN PILQ

Chain G:





- Molecule 1: TYPE IV PILUS BIOGENESIS AND COMPETENCE PROTEIN PILQ



[illegible]

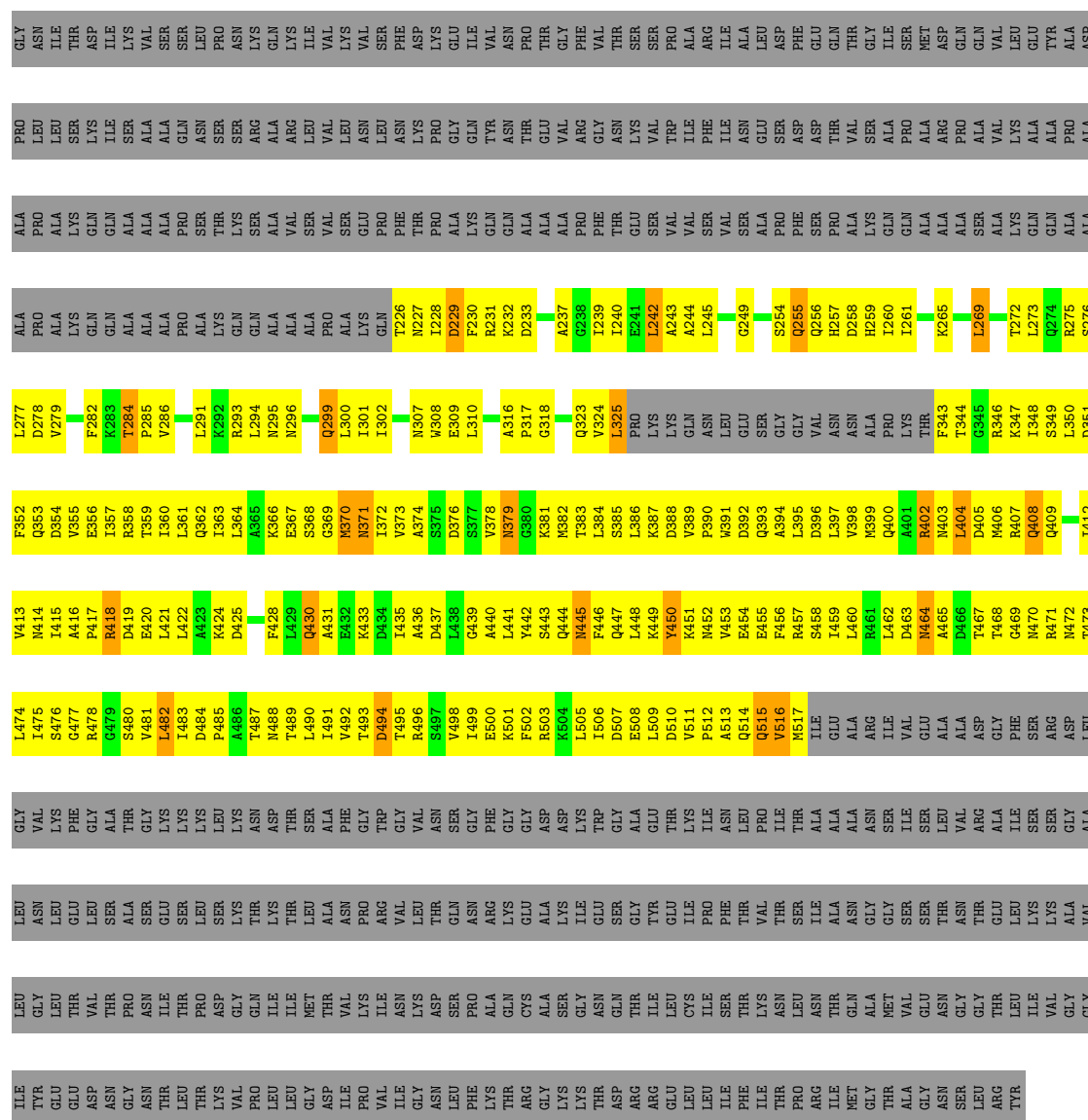
- Molecule 1: TYPE IV PILUS BIOGENESIS AND COMPETENCE PROTEIN PILQ

Chain I:  9% 25% . 63%

ILE	TYR	GLU	GLY	THR	GLY	ASP	GLY	ASN	VAL	L474	V413	F352	L277	ALA	ALA	PRO	LEU	GLY
GLU	GLU	THR	THR	GLY	VAL	PHE	THR	LEU	GLY	L475	M414	Q353	D278	PRO	PRO	ALA	LEU	ASN
GLU	GLU	THR	VAL	GLY	GLY	GLY	GLY	GLU	PHE	S476	I415	Q354	V279	GLN	GLN	LYS	SER	ILE
ASN	ASN	THR	THR	ALA	THR	ALA	THR	SER	ALA	G479	R418	I357	F282	GLN	GLN	ILE	SER	ILE
GLY	GLY	PRO	ALA	THR	THR	THR	THR	ALA	THR	S480	D419	R358	T284	ALA	ALA	ALA	SER	VAL
ASN	ASN	ASN	ASN	GLY	GLY	GLY	GLY	ALA	GLY	V481	E420	I359	F285	ALA	ALA	ALA	ALA	SER
THR	THR	ILE	THR	THR	THR	THR	THR	GLU	THR	I482	L421	I360	V286	PRO	PRO	GLN	GLN	SER
THR	THR	PRO	PRO	THR	THR	THR	THR	SER	THR	D484	A423	Q362	L291	ALA	ALA	ALA	ASN	LEU
LYS	LYS	ASP	ASP	GLY	GLY	GLY	GLY	LEU	GLY	P485	A424	I363	K292	GLN	GLN	LYS	SER	PRO
VAL	VAL	VAL	GLY	LYS	LYS	LYS	LYS	LYS	LYS	A486	D425	I364	R293	GLN	GLN	LYS	SER	ASN
PRO	PRO	PRO	GLN	THR	ASN	ASN	ASN	THR	ASN	T487		A365	K292	GLN	GLN	LYS	SER	LYS
LEU	LEU	ILE	ILE	LYS	ASP	ASP	ASP	LYS	LYS	M488	F428	K366	L294	ALA	ALA	ALA	ARG	GLN
LEU	LEU	GLY	GLY	GLY	THR	THR	THR	THR	THR	T489	L429	E367	N296	ALA	ALA	ALA	ARG	GLN
GLY	GLY	MET	GLY	MET	GLY	GLY	GLY	LEU	GLY	L490	Q430	S368	N296	ALA	ALA	ALA	ARG	GLN
GLY	GLY	THR	THR	THR	ALA	ALA	ALA	ALA	ALA	I491	A431	G369	Q299	PRO	VAL	VAL	VAL	LYS
ILE	ILE	VAL	VAL	VAL	ASN	PHE	THR	ASN	PHE	V492	F493	M370	L300	ALA	ALA	ALA	VAL	VAL
PRO	PRO	LYS	LYS	LYS	PRO	GLY	GLY	PRO	GLY	T493	K433	N371	I301	LYS	GLY	GLY	ASN	VAL
VAL	VAL	VAL	VAL	VAL	ARG	TRP	TRP	ARG	TRP	D494	D434	I372	I302	LYS	GLY	PRO	LEU	SER
ILE	ILE	ASN	ASN	VAL	ASN	GLY	GLY	VAL	GLY	T495	I435	V373		PHE	PHE	ASN	ASN	PHE
GLY	GLY	LYS	LYS	LYS	LEU	VAL	VAL	LEU	VAL	D496	A436	A374	N307	THR	THR	LYS	PRO	ASP
ASN	ASN	ASN	ASN	ASN	THR	THR	THR	THR	ASN	S497	D437	S375	E309	ALA	ALA	PRO	PRO	LYS
LEU	LEU	SER	SER	SER	GLN	SER	SER	GLN	SER	V498	L436	D376	L310	ALA	ALA	GLY	GLY	GLU
PHE	PHE	PRO	PRO	PRO	ASN	GLY	GLY	ASN	GLY	I499	G439	S377		LYS	LYS	GLN	GLN	ILE
LYS	LYS	ALA	ALA	ALA	ARG	PHE	PHE	ARG	PHE	E500	A440	V378		PRO	PRO	ARG	ARG	PHE
THR	THR	GLN	GLN	GLN	LYS	GLY	GLY	LYS	GLY	K501	L441	G380	A316	ASN	ASN	ASN	ASN	ASN
ARG	ARG	CYS	CYS	GLY	GLY	GLY	GLY	GLY	GLY	F502	Y442	G380	P317	ALA	ALA	THR	THR	PRO
GLY	GLY	ALA	ALA	ALA	ASP	ASP	ASP	ALA	ASP	R503	A443	K381	G318	ALA	ALA	GLU	GLU	THR
LYS	LYS	SER	SER	SER	LYS	ASP	ASP	LYS	ASP	K504	Q444	M382		ALA	ALA	VAL	VAL	GLY
LYS	LYS	GLY	GLY	GLY	ILE	LYS	LYS	ILE	LYS	L505	M445	T383	Q323	ALA	ALA	ARG	ARG	PHE
THR	THR	ASN	ASN	ASN	THR	THR	THR	THR	THR	I506	F446	I329	V324	PHE	PHE	GLY	GLY	VAL
ASP	ASP	GLN	GLN	GLN	SER			SER		D507	Q447	S385	L325	THR	THR	ASN	ASN	THR
ARG	ARG	THR	THR	THR	GLY	ALA	ALA	GLY	ALA	E508	L448	K386	PRO	GLU	GLU	LYS	VAL	SER
ARG	ARG	ILE	ILE	ILE	GLU	GLU	GLU	GLU	GLU	L509	K449	K387	LYS	SER	SER	VAL	VAL	SER
GLU	GLU	THR	THR	THR	THR	THR	THR	THR	THR	D510	Y450	D388	LYS	VAL	VAL	TRP	TRP	PRO
LEU	LEU	CYS	CYS	CYS	ILE	LYS	LYS	ILE	LYS	V511	K451	V389	GLN	ALA	ALA	ILE	ILE	ALA
LEU	LEU	ILE	ILE	ILE	PRO	ILE	ILE	PRO	ILE	P512	N452	P390	ASN	VAL	VAL	PHE	PHE	ARG
PHE	PHE	SER	SER	SER	PHE	ASN	ASN	PHE	ASN	A513	V453	M391	LEU	SER	SER	ASN	ASN	ILE
ILE	ILE	THR	THR	THR	THR	THR	THR	THR	THR	Q514	E454	D392	GLU	VAL	VAL	ILE	ILE	ILE
ILE	ILE	LYS	LYS	LYS	VAL	PRO	PRO	VAL	PRO	Q515	E455	Q393	SER	ALA	ALA	ASN	ASN	ALA
ASN	ASN	THR	THR	THR	THR	ILE	ILE	THR	THR	V516	F456	L395	GLY	PRO	PRO	GLU	GLU	LEU
PRO	PRO	PRO	PRO	PRO	SER	THR	THR	SER	THR	M517		L396	GLY	ASP	ASP	SER	SER	ASP
ARG	ARG	ARG	ARG	ARG	ALA	ALA	ALA	ILE	ALA			D396	VAL	PHE	PHE	ASP	ASP	PHE
ILE	ILE	ILE	ILE	ILE	ALA	ALA	ALA	ALA	ALA	GLU	GLU	V397	ASN	PRO	PRO	THR	THR	GLU
MET	MET	GLN	GLN	GLN	ASN	ASN	ASN	ASN	ASN	ALA	ALA	V398	ASN	ALA	ALA	VAL	VAL	THR
GLY	GLY	ALA	ALA	ALA	ASN	ASN	ASN	GLY	ASN	ARG	ARG	M399	ALA	LYS	LYS	SER	SER	GLY
THR	THR	MET	MET	MET	GLY	SER	SER	GLY	SER	ILE	ILE	Q400	PRO	GLN	GLN	ALA	ALA	ILE
ALA	ALA	VAL	VAL	VAL	VAL	ILE	ILE	SER	ILE	D463	L462	R401	LYS	ALA	ALA	PRO	PRO	SER
GLY	GLY	GLU	GLU	GLU	THR	GLU	GLU	SER	GLU	M464	A465	R402	THR	GLN	GLN	ALA	ALA	MET
ASN	ASN	ASN	ASN	ASN	ASN	LEU	LEU	THR	ASN	ALA	A465	M403	ALA	ALA	ALA	ARG	ARG	ASP
SER	SER	GLY	GLY	GLY	VAL	VAL	VAL	VAL	VAL	ALA	D466	L404	F343	ALA	ALA	PRO	PRO	GLN
LEU	LEU	GLY	GLY	GLY	ARG	THR	THR	THR	ARG	T467		D405	T344	SER	SER	ALA	ALA	GLN
ARG	ARG	THR	THR	THR	ALA	ALA	ALA	GLU	ALA	T468		R406	K346	ALA	ALA	VAL	VAL	GLN
TYR	TYR	PHE	PHE	PHE	GLY	PHE	PHE	ILE	PHE	T469		M407	K347	LYS	LYS	VAL	VAL	VAL
GLY	GLY	SER	SER	SER	THR	THR	THR	LYS	THR	M470		Q408	I348	ALA	ALA	GLU	GLU	LEU
VAL	VAL	VAL	VAL	VAL	ARG	ARG	ARG	LYS	SER	R471		Q409	S349	GLN	GLN	ALA	ALA	TYR
GLY	GLY	ALA	ALA	ALA	GLY	GLY	GLY	ALA	GLY	M472		L350	R275	ALA	ALA	PRO	PRO	ALA
THR	THR	CYS	CYS	CYS	THR	THR	THR	THR	THR	T472		T412	D351	ALA	ALA	ALA	ALA	ASN

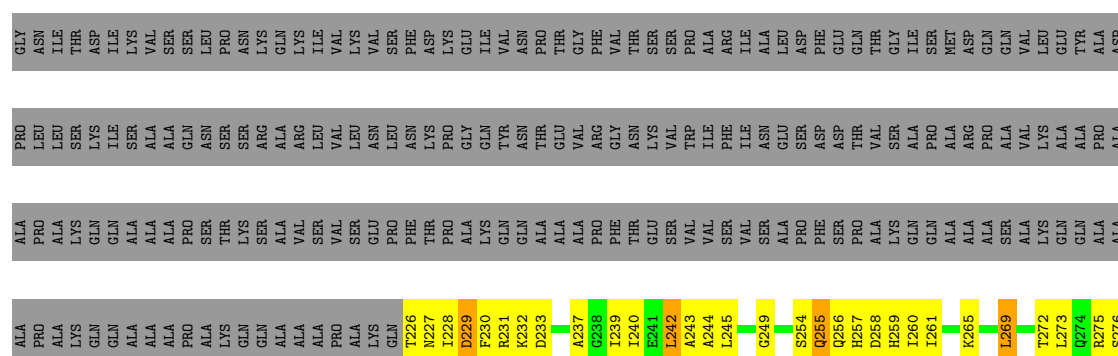
- Molecule 1: TYPE IV PILUS BIOGENESIS AND COMPETENCE PROTEIN PILQ

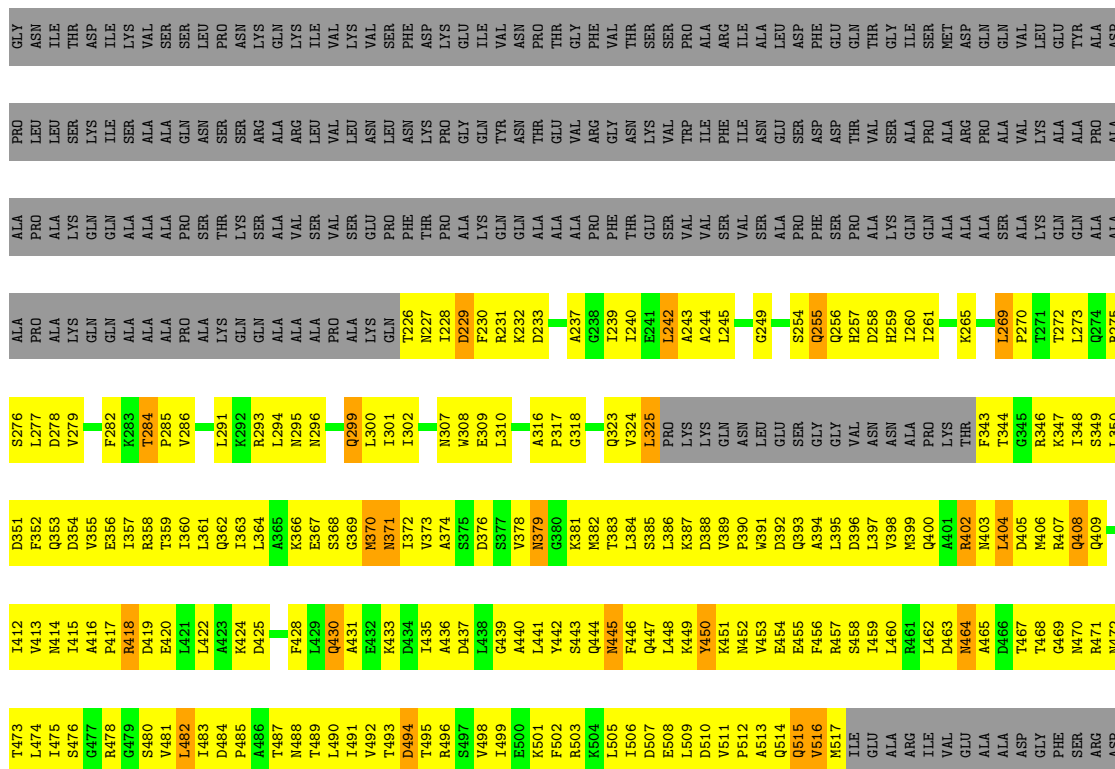
Chain J:  9% 25% . 63%

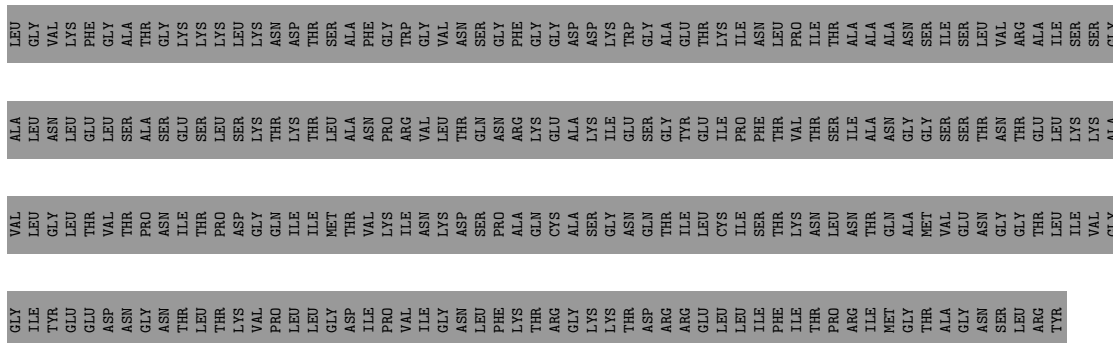


- Molecule 1: TYPE IV PILUS BIOGENESIS AND COMPETENCE PROTEIN PILQ

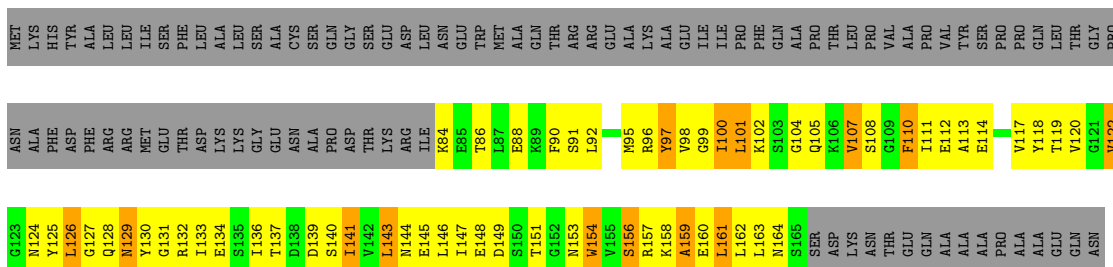
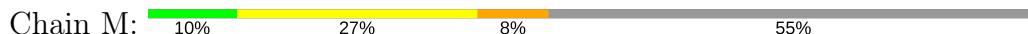
Chain K: 9% 25% . 63%



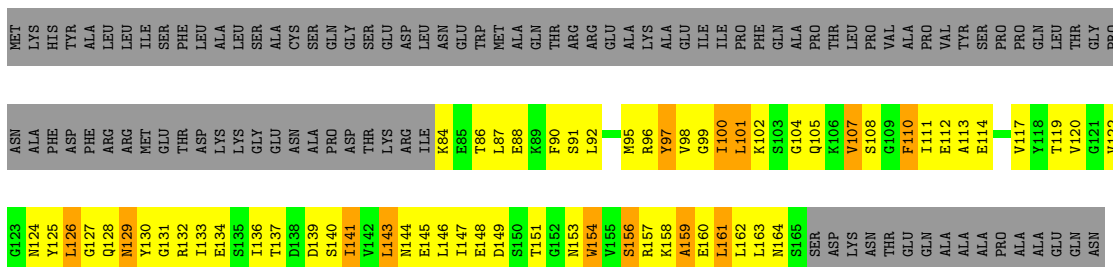
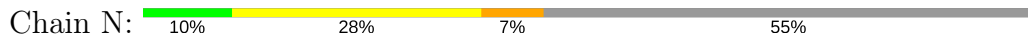




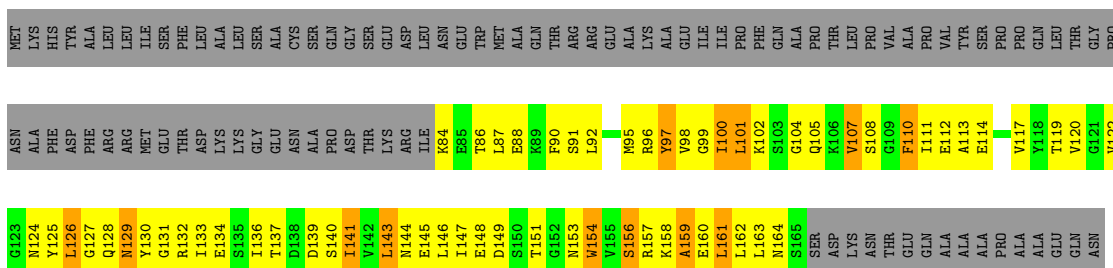
- Molecule 2: PILP PROTEIN



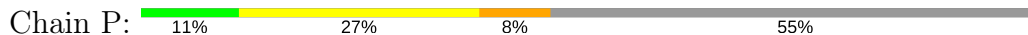
- Molecule 2: PILP PROTEIN

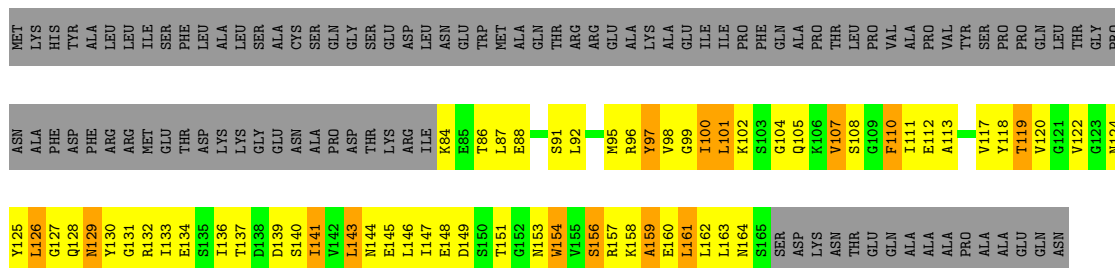


- Molecule 2: PILP PROTEIN



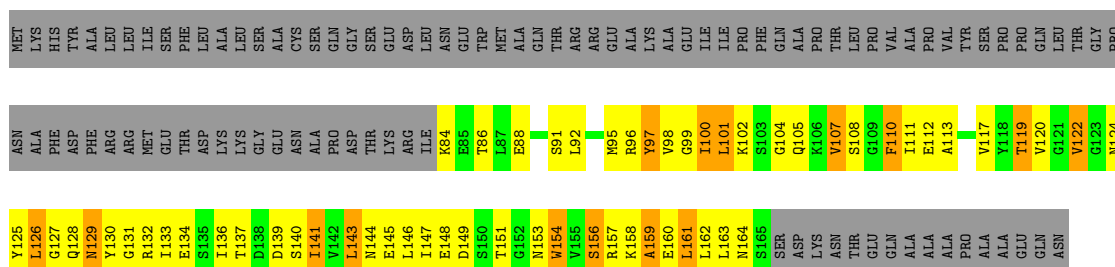
- Molecule 2: PILP PROTEIN





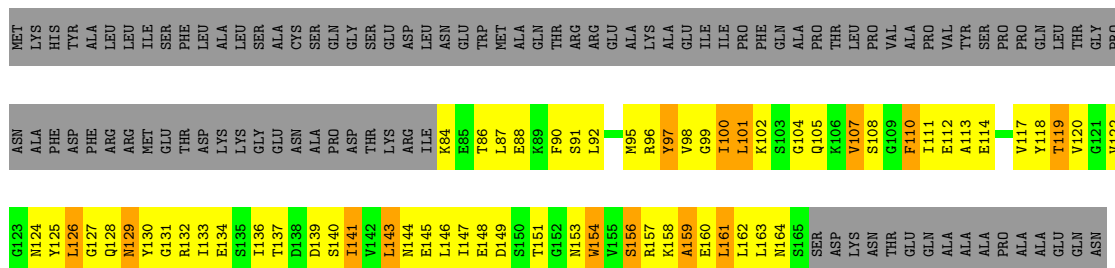
- Molecule 2: PILP PROTEIN

Chain Q:



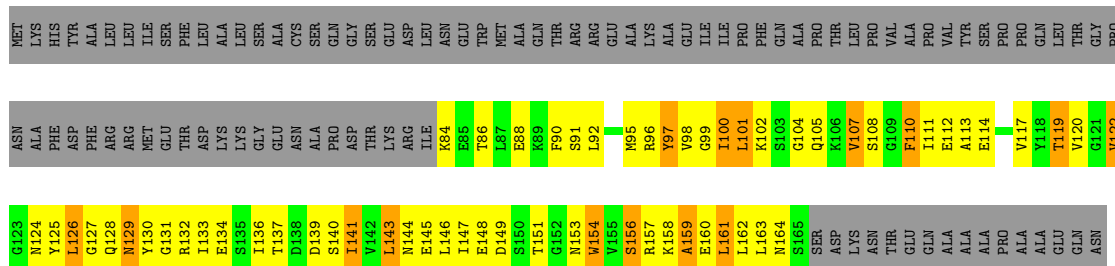
- Molecule 2: PILP PROTEIN

Chain R:




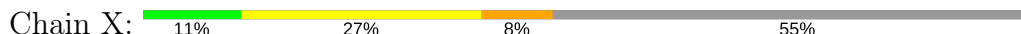
- Molecule 2: PILP PROTEIN

Chain S:



- Molecule 2: PILP PROTEIN

Chain T:  10% 28% 7% 55%



GL23	M124	L125	L126	GL27	Q128	M129	Y130	GL31	R132	L133	E134	GL35	L136	GL37	GL38	L139	S140	L141	V142	L143	M144	E145	L146	L147	E148	D149	S150	L151	GL152	M153	M154	V155	S156	R157	K158	E159	E160	L161	L162	L163	M164	S165	SER	ASN							
ALA	PHE	ASP	PHE	ARG	ARG	MET	GLU	THR	ASP	LYS	GLY	GLY	GLY	GLU	ASN	ALA	PRO	ASP	THR	LYS	ARG	ILE	ASN	GLU	TRP	MET	ALA	GLN	THR	ARG	ARG	GLU	ALA	LYS	ALA	GLU	ILE	ILE	PRO	PHE	PRO	GLN	ALA	PRO	THR	VAL	ALA	PRO	GLN	THR	GLY

4 Experimental information

Property	Value	Source
Reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	Depositor
Number of particles used	Not provided	Depositor
Resolution determination method	Not provided	Depositor
CTF correction method	CTFFIT EACH MICROGRAPH	Depositor
Microscope	FEI TECNAI F20	Depositor
Voltage (kV)	200	Depositor
Electron dose ($e^-/\text{\AA}^2$)	4	Depositor
Minimum defocus (nm)	1200	Depositor
Maximum defocus (nm)	5100	Depositor
Magnification	33112	Depositor
Image detector	GATAN 4K X 4K CCD	Depositor

5 Model quality ⓘ

5.1 Standard geometry ⓘ

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	$\# Z > 2$	RMSZ	$\# Z > 2$
1	A	0.79	0/2179	1.19	4/2950 (0.1%)
1	B	0.79	0/2179	1.19	4/2950 (0.1%)
1	C	0.79	0/2179	1.19	4/2950 (0.1%)
1	D	0.79	0/2179	1.19	4/2950 (0.1%)
1	E	0.79	0/2179	1.19	4/2950 (0.1%)
1	F	0.79	0/2179	1.19	4/2950 (0.1%)
1	G	0.79	0/2179	1.19	4/2950 (0.1%)
1	H	0.79	0/2179	1.19	4/2950 (0.1%)
1	I	0.79	0/2179	1.19	4/2950 (0.1%)
1	J	0.79	0/2179	1.19	4/2950 (0.1%)
1	K	0.79	0/2179	1.19	4/2950 (0.1%)
1	L	0.79	0/2179	1.19	4/2950 (0.1%)
2	M	0.23	0/652	0.40	0/878
2	N	0.23	0/652	0.40	0/878
2	O	0.23	0/652	0.40	0/878
2	P	0.23	0/652	0.40	0/878
2	Q	0.23	0/652	0.40	0/878
2	R	0.23	0/652	0.40	0/878
2	S	0.23	0/652	0.40	0/878
2	T	0.23	0/652	0.40	0/878
2	U	0.23	0/652	0.40	0/878
2	V	0.23	0/652	0.40	0/878
2	W	0.23	0/652	0.40	0/878
2	X	0.23	0/652	0.40	0/878
All	All	0.70	0/33972	1.06	48/45936 (0.1%)

There are no bond length outliers.

All (48) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	408	GLN	CG-CD-OE1	-38.48	44.65	121.60
1	D	408	GLN	CG-CD-OE1	-38.48	44.65	121.60
1	G	408	GLN	CG-CD-OE1	-38.48	44.65	121.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	J	408	GLN	CG-CD-OE1	-38.48	44.65	121.60
1	C	408	GLN	CG-CD-OE1	-38.47	44.66	121.60
1	F	408	GLN	CG-CD-OE1	-38.47	44.66	121.60
1	I	408	GLN	CG-CD-OE1	-38.47	44.66	121.60
1	L	408	GLN	CG-CD-OE1	-38.47	44.66	121.60
1	B	408	GLN	CG-CD-OE1	-38.46	44.67	121.60
1	E	408	GLN	CG-CD-OE1	-38.46	44.67	121.60
1	H	408	GLN	CG-CD-OE1	-38.46	44.67	121.60
1	K	408	GLN	CG-CD-OE1	-38.46	44.67	121.60
1	C	408	GLN	CG-CD-NE2	-9.77	93.25	116.70
1	F	408	GLN	CG-CD-NE2	-9.77	93.25	116.70
1	I	408	GLN	CG-CD-NE2	-9.77	93.25	116.70
1	L	408	GLN	CG-CD-NE2	-9.77	93.25	116.70
1	A	408	GLN	CG-CD-NE2	-9.76	93.28	116.70
1	D	408	GLN	CG-CD-NE2	-9.76	93.28	116.70
1	G	408	GLN	CG-CD-NE2	-9.76	93.28	116.70
1	J	408	GLN	CG-CD-NE2	-9.76	93.28	116.70
1	B	408	GLN	CG-CD-NE2	-9.75	93.29	116.70
1	E	408	GLN	CG-CD-NE2	-9.75	93.29	116.70
1	H	408	GLN	CG-CD-NE2	-9.75	93.29	116.70
1	K	408	GLN	CG-CD-NE2	-9.75	93.29	116.70
1	B	408	GLN	OE1-CD-NE2	6.99	137.97	121.90
1	E	408	GLN	OE1-CD-NE2	6.99	137.97	121.90
1	H	408	GLN	OE1-CD-NE2	6.99	137.97	121.90
1	K	408	GLN	OE1-CD-NE2	6.99	137.97	121.90
1	A	408	GLN	OE1-CD-NE2	6.96	137.92	121.90
1	D	408	GLN	OE1-CD-NE2	6.96	137.92	121.90
1	G	408	GLN	OE1-CD-NE2	6.96	137.92	121.90
1	J	408	GLN	OE1-CD-NE2	6.96	137.92	121.90
1	C	408	GLN	OE1-CD-NE2	6.96	137.91	121.90
1	F	408	GLN	OE1-CD-NE2	6.96	137.91	121.90
1	I	408	GLN	OE1-CD-NE2	6.96	137.91	121.90
1	L	408	GLN	OE1-CD-NE2	6.96	137.91	121.90
1	A	450	TYR	CA-CB-CG	-5.09	103.74	113.40
1	D	450	TYR	CA-CB-CG	-5.09	103.74	113.40
1	G	450	TYR	CA-CB-CG	-5.09	103.74	113.40
1	J	450	TYR	CA-CB-CG	-5.09	103.74	113.40
1	C	450	TYR	CA-CB-CG	-5.07	103.76	113.40
1	F	450	TYR	CA-CB-CG	-5.07	103.76	113.40
1	I	450	TYR	CA-CB-CG	-5.07	103.76	113.40
1	L	450	TYR	CA-CB-CG	-5.07	103.76	113.40
1	B	450	TYR	CA-CB-CG	-5.07	103.77	113.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	E	450	TYR	CA-CB-CG	-5.07	103.77	113.40
1	H	450	TYR	CA-CB-CG	-5.07	103.77	113.40
1	K	450	TYR	CA-CB-CG	-5.07	103.77	113.40

There are no chirality outliers.

There are no planarity outliers.

5.2 Too-close contacts

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	2152	0	2190	607	0
1	B	2152	0	2190	612	0
1	C	2152	0	2190	615	0
1	D	2152	0	2190	610	0
1	E	2152	0	2190	610	0
1	F	2152	0	2190	603	0
1	G	2152	0	2190	601	0
1	H	2152	0	2190	613	0
1	I	2152	0	2190	599	0
1	J	2152	0	2190	605	0
1	K	2152	0	2190	607	0
1	L	2152	0	2190	601	0
2	M	644	96	636	116	0
2	N	644	96	636	115	0
2	O	644	96	636	115	0
2	P	644	96	636	118	0
2	Q	644	96	636	119	0
2	R	644	96	636	119	0
2	S	644	96	636	117	0
2	T	644	96	636	117	0
2	U	644	96	636	113	0
2	V	644	96	636	115	0
2	W	644	96	636	114	0
2	X	644	96	636	117	0
All	All	33552	1152	33912	6674	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 99.

All (6674) 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:E:347:LYS:NZ	2:Q:104:GLY:HA2	1.29	1.47
1:C:347:LYS:NZ	2:O:104:GLY:HA2	1.30	1.46
1:G:347:LYS:NZ	2:S:104:GLY:HA2	1.30	1.46
1:A:347:LYS:NZ	2:M:104:GLY:HA2	1.30	1.41
1:I:347:LYS:NZ	2:U:104:GLY:HA2	1.30	1.40
1:J:347:LYS:NZ	2:V:104:GLY:HA2	1.30	1.40
1:H:347:LYS:NZ	2:T:104:GLY:HA2	1.29	1.40
1:L:347:LYS:NZ	2:X:104:GLY:HA2	1.30	1.40
1:F:347:LYS:NZ	2:R:104:GLY:HA2	1.30	1.39
1:D:347:LYS:NZ	2:P:104:GLY:HA2	1.30	1.39
1:B:347:LYS:NZ	2:N:104:GLY:HA2	1.29	1.39
1:K:347:LYS:NZ	2:W:104:GLY:HA2	1.29	1.39
1:G:343:PHE:HB2	1:H:470:ASN:N	1.39	1.38
1:H:343:PHE:HB2	1:I:470:ASN:N	1.39	1.38
1:F:343:PHE:HB2	1:G:470:ASN:N	1.39	1.38
1:I:343:PHE:HB2	1:J:470:ASN:N	1.39	1.38
1:E:343:PHE:HB2	1:F:470:ASN:N	1.39	1.37
1:J:343:PHE:HB2	1:K:470:ASN:N	1.39	1.37
1:B:343:PHE:HB2	1:C:469:GLY:CA	1.56	1.36
1:D:343:PHE:HB2	1:E:470:ASN:N	1.39	1.36
1:E:343:PHE:HB2	1:F:469:GLY:CA	1.56	1.36
1:H:343:PHE:HB2	1:I:469:GLY:CA	1.56	1.36
1:K:343:PHE:HB2	1:L:470:ASN:N	1.39	1.36
1:K:343:PHE:HB2	1:L:469:GLY:CA	1.56	1.36
1:F:343:PHE:HB2	1:G:469:GLY:CA	1.56	1.36
1:C:343:PHE:HB2	1:D:470:ASN:N	1.39	1.35
1:I:343:PHE:HB2	1:J:469:GLY:CA	1.56	1.35
1:A:470:ASN:N	1:L:343:PHE:HB2	1.39	1.35
1:H:343:PHE:CB	1:I:470:ASN:H	1.39	1.35
1:A:343:PHE:HB2	1:B:469:GLY:CA	1.56	1.35
1:C:343:PHE:HB2	1:D:469:GLY:CA	1.56	1.35
1:B:343:PHE:HB2	1:C:470:ASN:N	1.39	1.35
1:A:343:PHE:HB2	1:B:470:ASN:N	1.39	1.35
1:A:469:GLY:CA	1:L:343:PHE:HB2	1.56	1.35
1:G:343:PHE:CB	1:H:470:ASN:H	1.39	1.35
1:E:343:PHE:CB	1:F:470:ASN:H	1.39	1.34
1:D:343:PHE:HB2	1:E:469:GLY:CA	1.56	1.34

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:343:PHE:CB	1:B:470:ASN:H	1.39	1.34
1:G:343:PHE:HB2	1:H:469:GLY:CA	1.56	1.34
1:J:343:PHE:HB2	1:K:469:GLY:CA	1.56	1.34
1:C:447:GLN:CG	1:D:508:GLU:OE2	1.76	1.33
1:B:343:PHE:CB	1:C:470:ASN:H	1.39	1.33
1:D:343:PHE:CB	1:E:470:ASN:H	1.39	1.33
1:I:343:PHE:CB	1:J:470:ASN:H	1.39	1.33
1:B:447:GLN:CG	1:C:508:GLU:OE2	1.76	1.33
1:A:447:GLN:CG	1:B:508:GLU:OE2	1.77	1.33
1:D:447:GLN:CG	1:E:508:GLU:OE2	1.77	1.33
1:K:343:PHE:CB	1:L:470:ASN:H	1.39	1.33
1:A:470:ASN:H	1:L:343:PHE:CB	1.39	1.33
1:C:343:PHE:CB	1:D:470:ASN:H	1.39	1.33
1:F:343:PHE:CB	1:G:470:ASN:H	1.39	1.33
1:J:343:PHE:CB	1:K:470:ASN:H	1.39	1.33
1:K:447:GLN:CG	1:L:508:GLU:OE2	1.76	1.32
1:E:447:GLN:CG	1:F:508:GLU:OE2	1.76	1.32
1:J:447:GLN:CG	1:K:508:GLU:OE2	1.77	1.32
1:A:467:THR:CG2	1:L:396:ASP:OD1	1.78	1.32
1:A:396:ASP:OD1	1:B:467:THR:CG2	1.78	1.32
1:B:396:ASP:OD1	1:C:467:THR:CG2	1.78	1.31
1:K:396:ASP:OD1	1:L:467:THR:CG2	1.78	1.31
1:A:508:GLU:OE2	1:L:447:GLN:CG	1.76	1.31
1:A:229:ASP:OD1	1:L:261:ILE:HG12	1.29	1.31
1:I:447:GLN:CG	1:J:508:GLU:OE2	1.76	1.31
1:J:396:ASP:OD1	1:K:467:THR:CG2	1.78	1.31
1:F:295:ASN:N	1:G:273:LEU:HD21	1.46	1.31
1:F:447:GLN:CG	1:G:508:GLU:OE2	1.76	1.31
1:C:295:ASN:N	1:D:273:LEU:HD21	1.46	1.31
1:I:396:ASP:OD1	1:J:467:THR:CG2	1.78	1.31
1:J:261:ILE:HG12	1:K:229:ASP:OD1	1.29	1.31
1:H:447:GLN:CG	1:I:508:GLU:OE2	1.76	1.31
1:A:295:ASN:N	1:B:273:LEU:HD21	1.46	1.30
1:C:396:ASP:OD1	1:D:467:THR:CG2	1.78	1.30
1:D:295:ASN:N	1:E:273:LEU:HD21	1.46	1.30
1:A:261:ILE:HG12	1:B:229:ASP:OD1	1.29	1.30
1:G:447:GLN:CG	1:H:508:GLU:OE2	1.77	1.30
1:H:396:ASP:OD1	1:I:467:THR:CG2	1.78	1.30
1:F:343:PHE:CB	1:G:470:ASN:N	1.93	1.30
1:G:396:ASP:OD1	1:H:467:THR:CG2	1.78	1.30
1:G:295:ASN:N	1:H:273:LEU:HD21	1.46	1.30

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:396:ASP:OD1	1:E:467:THR:CG2	1.78	1.30
1:F:396:ASP:OD1	1:G:467:THR:CG2	1.78	1.30
1:E:396:ASP:OD1	1:F:467:THR:CG2	1.78	1.30
1:C:261:ILE:HG12	1:D:229:ASP:OD1	1.29	1.29
1:I:295:ASN:N	1:J:273:LEU:HD21	1.46	1.29
1:J:295:ASN:H	1:K:273:LEU:CD2	1.45	1.29
1:J:343:PHE:CB	1:K:470:ASN:N	1.93	1.29
1:H:295:ASN:H	1:I:273:LEU:CD2	1.45	1.29
1:K:295:ASN:N	1:L:273:LEU:HD21	1.46	1.29
1:I:343:PHE:CB	1:J:470:ASN:N	1.93	1.29
1:G:343:PHE:CB	1:H:470:ASN:N	1.93	1.29
1:H:295:ASN:N	1:I:273:LEU:HD21	1.46	1.29
1:A:273:LEU:CD2	1:L:295:ASN:H	1.45	1.28
1:K:343:PHE:CB	1:L:470:ASN:N	1.93	1.28
1:A:273:LEU:HD21	1:L:295:ASN:N	1.46	1.28
1:F:295:ASN:H	1:G:273:LEU:CD2	1.45	1.28
1:G:295:ASN:H	1:H:273:LEU:CD2	1.45	1.27
1:H:343:PHE:CB	1:I:470:ASN:N	1.93	1.27
1:B:295:ASN:N	1:C:273:LEU:HD21	1.46	1.27
1:E:295:ASN:N	1:F:273:LEU:HD21	1.46	1.27
1:I:295:ASN:H	1:J:273:LEU:CD2	1.45	1.27
1:B:295:ASN:H	1:C:273:LEU:CD2	1.45	1.27
1:J:295:ASN:N	1:K:273:LEU:HD21	1.46	1.27
1:C:295:ASN:H	1:D:273:LEU:CD2	1.45	1.27
1:B:261:ILE:HG12	1:C:229:ASP:OD1	1.29	1.27
1:E:343:PHE:CB	1:F:470:ASN:N	1.93	1.27
1:D:295:ASN:H	1:E:273:LEU:CD2	1.45	1.27
1:C:343:PHE:HB2	1:D:469:GLY:C	1.56	1.26
1:B:261:ILE:HG21	1:C:229:ASP:OD2	1.08	1.26
1:A:295:ASN:H	1:B:273:LEU:CD2	1.45	1.26
1:D:343:PHE:HB2	1:E:469:GLY:C	1.55	1.26
1:K:261:ILE:HG21	1:L:229:ASP:OD2	1.08	1.26
1:K:261:ILE:HG12	1:L:229:ASP:OD1	1.29	1.26
1:E:295:ASN:H	1:F:273:LEU:CD2	1.45	1.26
1:K:295:ASN:H	1:L:273:LEU:CD2	1.45	1.26
1:B:343:PHE:HB2	1:C:469:GLY:C	1.56	1.26
1:H:261:ILE:HG12	1:I:229:ASP:OD1	1.29	1.26
1:E:343:PHE:HB2	1:F:469:GLY:C	1.56	1.25
1:G:261:ILE:HG12	1:H:229:ASP:OD1	1.29	1.25
1:E:261:ILE:HG12	1:F:229:ASP:OD1	1.29	1.25
1:C:343:PHE:CB	1:D:470:ASN:N	1.93	1.25

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:343:PHE:HB2	1:B:469:GLY:C	1.55	1.25
1:B:343:PHE:CB	1:C:470:ASN:N	1.93	1.25
1:J:261:ILE:HG21	1:K:229:ASP:OD2	1.08	1.25
1:C:261:ILE:HG21	1:D:229:ASP:OD2	1.08	1.25
1:I:261:ILE:HG12	1:J:229:ASP:OD1	1.29	1.25
1:H:261:ILE:HG21	1:I:229:ASP:OD2	1.08	1.24
1:A:229:ASP:OD2	1:L:261:ILE:HG21	1.08	1.24
1:A:343:PHE:CB	1:B:470:ASN:N	1.93	1.24
1:D:343:PHE:CB	1:E:470:ASN:N	1.93	1.24
1:E:261:ILE:HG21	1:F:229:ASP:OD2	1.08	1.24
1:A:261:ILE:HG21	1:B:229:ASP:OD2	1.08	1.24
1:F:343:PHE:HB2	1:G:469:GLY:C	1.56	1.24
1:I:343:PHE:HB2	1:J:469:GLY:C	1.56	1.23
1:H:343:PHE:HB2	1:I:469:GLY:C	1.56	1.23
1:J:343:PHE:HB2	1:K:469:GLY:C	1.55	1.23
1:G:343:PHE:HB2	1:H:469:GLY:C	1.55	1.23
1:A:470:ASN:N	1:L:343:PHE:CB	1.93	1.23
1:D:261:ILE:HG12	1:E:229:ASP:OD1	1.29	1.23
1:I:261:ILE:HG21	1:J:229:ASP:OD2	1.08	1.23
1:K:343:PHE:HB2	1:L:469:GLY:C	1.56	1.23
1:A:469:GLY:C	1:L:343:PHE:HB2	1.56	1.23
1:F:261:ILE:HG12	1:G:229:ASP:OD1	1.29	1.22
1:D:261:ILE:HG21	1:E:229:ASP:OD2	1.08	1.22
1:G:261:ILE:HG21	1:H:229:ASP:OD2	1.08	1.22
1:F:261:ILE:HG21	1:G:229:ASP:OD2	1.08	1.22
1:F:293:ARG:NH1	1:G:272:THR:HG21	1.55	1.22
1:G:293:ARG:NH1	1:H:272:THR:HG21	1.55	1.22
1:H:293:ARG:NH1	1:I:272:THR:HG21	1.55	1.22
1:E:293:ARG:NH1	1:F:272:THR:HG21	1.55	1.21
1:G:406:MET:SD	1:H:468:THR:HG21	1.81	1.21
1:E:406:MET:SD	1:F:468:THR:HG21	1.81	1.21
1:I:293:ARG:NH1	1:J:272:THR:HG21	1.55	1.21
1:D:293:ARG:NH1	1:E:272:THR:HG21	1.55	1.21
1:D:406:MET:SD	1:E:468:THR:HG21	1.81	1.21
1:I:406:MET:SD	1:J:468:THR:HG21	1.81	1.21
1:B:406:MET:SD	1:C:468:THR:HG21	1.81	1.20
1:J:293:ARG:NH1	1:K:272:THR:HG21	1.55	1.20
1:J:406:MET:SD	1:K:468:THR:HG21	1.81	1.20
1:H:406:MET:SD	1:I:468:THR:HG21	1.81	1.20
1:A:468:THR:HG21	1:L:406:MET:SD	1.81	1.20
1:C:406:MET:SD	1:D:468:THR:HG21	1.81	1.20

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:293:ARG:NH1	1:D:272:THR:HG21	1.55	1.20
1:F:406:MET:SD	1:G:468:THR:HG21	1.81	1.20
1:K:293:ARG:NH1	1:L:272:THR:HG21	1.55	1.20
1:B:293:ARG:NH1	1:C:272:THR:HG21	1.55	1.19
1:C:424:LYS:HE2	1:C:441:LEU:HD12	1.22	1.19
1:B:447:GLN:HG3	1:C:508:GLU:OE2	1.42	1.19
1:E:343:PHE:HB2	1:F:469:GLY:HA2	1.21	1.19
1:F:424:LYS:HE2	1:F:441:LEU:HD12	1.22	1.19
1:A:293:ARG:NH1	1:B:272:THR:HG21	1.55	1.19
1:K:406:MET:SD	1:L:468:THR:HG21	1.81	1.19
1:A:272:THR:HG21	1:L:293:ARG:NH1	1.55	1.19
1:B:343:PHE:HB2	1:C:469:GLY:HA2	1.21	1.18
1:J:387:LYS:HB3	2:V:102:LYS:HD3	1.23	1.18
1:A:406:MET:SD	1:B:468:THR:HG21	1.81	1.18
1:A:229:ASP:OD2	1:L:261:ILE:CG2	1.92	1.18
1:A:261:ILE:CG2	1:B:229:ASP:OD2	1.92	1.18
1:C:354:ASP:H	1:C:383:THR:HG22	1.09	1.18
1:I:387:LYS:HB3	2:U:102:LYS:HD3	1.23	1.18
1:K:387:LYS:HB3	2:W:102:LYS:HD3	1.23	1.17
1:B:261:ILE:CG2	1:C:229:ASP:OD2	1.91	1.17
1:K:261:ILE:CG2	1:L:229:ASP:OD2	1.91	1.17
1:D:354:ASP:H	1:D:383:THR:HG22	1.09	1.17
1:E:261:ILE:CG2	1:F:229:ASP:OD2	1.91	1.17
1:F:261:ILE:CG2	1:G:229:ASP:OD2	1.92	1.17
1:A:447:GLN:HG3	1:B:508:GLU:OE2	1.42	1.17
1:I:261:ILE:CG2	1:J:229:ASP:OD2	1.92	1.17
1:H:261:ILE:CG2	1:I:229:ASP:OD2	1.91	1.17
1:F:299:GLN:HE21	1:G:227:ASN:ND2	1.43	1.16
1:I:299:GLN:HE21	1:J:227:ASN:ND2	1.43	1.16
1:J:294:LEU:HG	1:K:273:LEU:CD2	1.75	1.16
1:C:447:GLN:HG3	1:D:508:GLU:OE2	1.42	1.16
1:E:418:ARG:HD2	1:E:481:VAL:HB	1.26	1.16
1:F:294:LEU:HD21	1:G:227:ASN:HB2	1.26	1.16
1:G:261:ILE:CG2	1:H:229:ASP:OD2	1.92	1.16
1:K:294:LEU:HG	1:L:273:LEU:CD2	1.75	1.16
1:A:294:LEU:HG	1:B:273:LEU:CD2	1.75	1.16
1:E:299:GLN:HE21	1:F:227:ASN:ND2	1.43	1.16
1:B:354:ASP:H	1:B:383:THR:HG22	1.10	1.16
1:D:261:ILE:CG2	1:E:229:ASP:OD2	1.92	1.16
1:E:294:LEU:HD21	1:F:227:ASN:HB2	1.26	1.16
1:D:343:PHE:HB2	1:E:469:GLY:HA2	1.21	1.16

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:299:GLN:HE21	1:I:227:ASN:ND2	1.43	1.16
1:B:294:LEU:HG	1:C:273:LEU:CD2	1.75	1.16
1:E:354:ASP:H	1:E:383:THR:HG22	1.10	1.16
1:J:261:ILE:CG2	1:K:229:ASP:OD2	1.92	1.16
1:B:424:LYS:HE2	1:B:441:LEU:HD12	1.22	1.15
1:C:261:ILE:CG2	1:D:229:ASP:OD2	1.92	1.15
1:C:293:ARG:HH12	1:D:272:THR:HG21	1.07	1.15
1:H:387:LYS:HB3	2:T:102:LYS:HD3	1.23	1.15
1:D:418:ARG:HD2	1:D:481:VAL:HB	1.26	1.15
1:G:294:LEU:HG	1:H:273:LEU:CD2	1.75	1.15
1:J:299:GLN:HE21	1:K:227:ASN:ND2	1.43	1.15
1:H:294:LEU:HG	1:I:273:LEU:CD2	1.75	1.15
1:I:294:LEU:HG	1:J:273:LEU:CD2	1.75	1.15
1:F:418:ARG:HD2	1:F:481:VAL:HB	1.25	1.15
1:G:299:GLN:HE21	1:H:227:ASN:ND2	1.43	1.15
1:G:343:PHE:HB2	1:H:469:GLY:HA2	1.21	1.15
1:B:299:GLN:HE21	1:C:227:ASN:ND2	1.43	1.15
1:A:273:LEU:CD2	1:L:294:LEU:HG	1.75	1.14
1:A:299:GLN:HE21	1:B:227:ASN:ND2	1.43	1.14
1:E:294:LEU:HG	1:F:273:LEU:CD2	1.75	1.14
1:G:294:LEU:HD21	1:H:227:ASN:HB2	1.26	1.14
1:C:299:GLN:HE21	1:D:227:ASN:ND2	1.43	1.14
1:D:294:LEU:HG	1:E:273:LEU:CD2	1.75	1.14
1:E:424:LYS:HE2	1:E:441:LEU:HD12	1.22	1.14
1:F:354:ASP:H	1:F:383:THR:HG22	1.09	1.14
1:F:294:LEU:HG	1:G:273:LEU:CD2	1.75	1.14
1:L:387:LYS:HB3	2:X:102:LYS:HD3	1.23	1.14
1:A:227:ASN:ND2	1:L:299:GLN:HE21	1.43	1.14
1:J:447:GLN:CD	1:K:508:GLU:OE2	1.86	1.14
1:K:447:GLN:CD	1:L:508:GLU:OE2	1.86	1.14
1:A:354:ASP:H	1:A:383:THR:HG22	1.09	1.14
1:D:299:GLN:HE21	1:E:227:ASN:ND2	1.43	1.14
1:D:404:LEU:HD12	1:D:417:PRO:HA	1.13	1.13
1:E:404:LEU:HD12	1:E:417:PRO:HA	1.13	1.13
1:C:294:LEU:HG	1:D:273:LEU:CD2	1.75	1.13
1:I:447:GLN:CD	1:J:508:GLU:OE2	1.86	1.13
1:J:343:PHE:CB	1:K:469:GLY:HA2	1.79	1.13
1:K:343:PHE:CB	1:L:469:GLY:HA2	1.79	1.13
1:A:404:LEU:HD12	1:A:417:PRO:HA	1.13	1.13
1:C:418:ARG:HD2	1:C:481:VAL:HB	1.25	1.13
1:D:294:LEU:HD21	1:E:227:ASN:HB2	1.26	1.13

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:343:PHE:CB	1:J:469:GLY:HA2	1.79	1.13
1:K:299:GLN:HE21	1:L:227:ASN:ND2	1.43	1.13
1:A:508:GLU:OE2	1:L:447:GLN:HG3	1.42	1.13
1:G:424:LYS:HE2	1:G:441:LEU:HD12	1.22	1.13
1:A:508:GLU:OE2	1:L:447:GLN:CD	1.86	1.13
1:A:469:GLY:HA2	1:L:343:PHE:CB	1.79	1.13
1:B:404:LEU:HD12	1:B:417:PRO:HA	1.13	1.12
1:A:343:PHE:HB2	1:B:469:GLY:HA2	1.21	1.12
1:C:404:LEU:HD12	1:C:417:PRO:HA	1.13	1.12
1:H:343:PHE:CB	1:I:469:GLY:HA2	1.79	1.12
1:D:424:LYS:HE2	1:D:441:LEU:HD12	1.22	1.12
1:L:424:LYS:HE2	1:L:441:LEU:HD12	1.22	1.12
1:A:387:LYS:HB3	2:M:102:LYS:HD3	1.23	1.12
1:A:343:PHE:CB	1:B:469:GLY:HA2	1.79	1.12
1:B:447:GLN:CD	1:C:508:GLU:OE2	1.86	1.12
1:G:354:ASP:H	1:G:383:THR:HG22	1.09	1.12
1:G:256:GLN:HE22	1:H:231:ARG:HD2	0.97	1.12
1:F:256:GLN:HE22	1:G:231:ARG:HD2	0.97	1.12
1:D:447:GLN:HG3	1:E:508:GLU:OE2	1.42	1.12
1:K:388:ASP:O	1:L:376:ASP:OD2	1.68	1.12
1:A:272:THR:HG21	1:L:293:ARG:HH12	1.07	1.12
1:A:294:LEU:HD21	1:B:227:ASN:CB	1.80	1.12
1:B:294:LEU:HD21	1:C:227:ASN:CB	1.80	1.12
1:F:293:ARG:HH12	1:G:272:THR:HG21	1.07	1.12
1:H:294:LEU:HD21	1:I:227:ASN:HB2	1.26	1.12
1:K:447:GLN:HG3	1:L:508:GLU:OE2	1.42	1.12
1:C:294:LEU:HD21	1:D:227:ASN:CB	1.80	1.12
1:E:294:LEU:HG	1:F:273:LEU:HD22	1.13	1.12
1:G:294:LEU:HG	1:H:273:LEU:HD22	1.13	1.12
1:G:343:PHE:CB	1:H:469:GLY:HA2	1.79	1.12
1:L:404:LEU:HD12	1:L:417:PRO:HA	1.13	1.12
1:A:227:ASN:CB	1:L:294:LEU:HD21	1.80	1.12
1:A:447:GLN:CD	1:B:508:GLU:OE2	1.86	1.12
1:D:294:LEU:HD21	1:E:227:ASN:CB	1.80	1.12
1:F:404:LEU:HD12	1:F:417:PRO:HA	1.13	1.12
1:F:447:GLN:HG3	1:G:508:GLU:OE2	1.42	1.12
1:I:424:LYS:HE2	1:I:441:LEU:HD12	1.22	1.12
1:A:469:GLY:HA2	1:L:343:PHE:HB2	1.21	1.12
1:H:265:LYS:HE3	1:I:245:LEU:CD2	1.55	1.11
1:C:447:GLN:CD	1:D:508:GLU:OE2	1.86	1.11
1:G:387:LYS:HB3	2:S:102:LYS:HD3	1.23	1.11

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:265:LYS:HE3	1:J:245:LEU:CD2	1.55	1.11
1:C:465:ALA:HB2	1:C:475:ILE:HD11	1.30	1.11
1:E:294:LEU:HD21	1:F:227:ASN:CB	1.80	1.11
1:J:299:GLN:NE2	1:K:227:ASN:HD21	1.49	1.11
1:K:294:LEU:HD21	1:L:227:ASN:CB	1.80	1.11
1:A:388:ASP:O	1:B:376:ASP:OD2	1.68	1.11
1:B:343:PHE:CB	1:C:469:GLY:HA2	1.79	1.11
1:H:343:PHE:HB2	1:I:469:GLY:HA2	1.21	1.11
1:I:388:ASP:O	1:J:376:ASP:OD2	1.68	1.11
1:H:447:GLN:CD	1:I:508:GLU:OE2	1.86	1.11
1:L:354:ASP:H	1:L:383:THR:HG22	1.09	1.11
1:A:376:ASP:OD2	1:L:388:ASP:O	1.68	1.11
1:E:256:GLN:HE22	1:F:231:ARG:HD2	0.97	1.11
1:F:299:GLN:NE2	1:G:227:ASN:HD21	1.49	1.11
1:B:465:ALA:HB2	1:B:475:ILE:HD11	1.30	1.11
1:D:294:LEU:HG	1:E:273:LEU:HD22	1.13	1.11
1:G:299:GLN:NE2	1:H:227:ASN:HD21	1.49	1.11
1:H:256:GLN:HE22	1:I:231:ARG:HD2	0.97	1.11
1:H:294:LEU:HG	1:I:273:LEU:HD22	1.13	1.11
1:J:388:ASP:O	1:K:376:ASP:OD2	1.68	1.11
1:G:447:GLN:HG3	1:H:508:GLU:OE2	1.42	1.11
1:G:418:ARG:HD2	1:G:481:VAL:HB	1.26	1.11
1:C:343:PHE:CB	1:D:469:GLY:HA2	1.79	1.11
1:C:343:PHE:HB2	1:D:469:GLY:HA2	1.21	1.11
1:E:256:GLN:NE2	1:F:231:ARG:HD2	1.64	1.11
1:F:256:GLN:NE2	1:G:231:ARG:HD2	1.64	1.11
1:D:465:ALA:HB2	1:D:475:ILE:HD11	1.30	1.11
1:F:294:LEU:HG	1:G:273:LEU:HD22	1.13	1.11
1:F:343:PHE:CB	1:G:469:GLY:HA2	1.79	1.11
1:I:299:GLN:NE2	1:J:227:ASN:HD21	1.49	1.11
1:D:343:PHE:CB	1:E:469:GLY:HA2	1.79	1.11
1:G:256:GLN:NE2	1:H:231:ARG:HD2	1.64	1.11
1:H:256:GLN:NE2	1:I:231:ARG:HD2	1.64	1.11
1:K:343:PHE:HB2	1:L:469:GLY:HA2	1.21	1.11
1:B:299:GLN:NE2	1:C:227:ASN:HD21	1.49	1.10
1:B:387:LYS:HB3	2:N:102:LYS:HD3	1.23	1.10
1:A:299:GLN:NE2	1:B:227:ASN:HD21	1.49	1.10
1:D:256:GLN:NE2	1:E:231:ARG:HD2	1.64	1.10
1:F:389:VAL:HG22	1:G:376:ASP:CG	1.71	1.10
1:E:343:PHE:CB	1:F:469:GLY:HA2	1.79	1.10
1:F:294:LEU:HD21	1:G:227:ASN:CB	1.80	1.10

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:447:GLN:CD	1:G:508:GLU:OE2	1.86	1.10
1:G:447:GLN:CD	1:H:508:GLU:OE2	1.86	1.10
1:J:294:LEU:HD21	1:K:227:ASN:CB	1.80	1.10
1:K:294:LEU:CA	1:L:273:LEU:HD21	1.81	1.10
1:A:294:LEU:CA	1:B:273:LEU:HD21	1.82	1.10
1:I:389:VAL:HG22	1:J:376:ASP:CG	1.71	1.10
1:A:231:ARG:HD2	1:L:256:GLN:NE2	1.64	1.10
1:C:256:GLN:NE2	1:D:231:ARG:HD2	1.64	1.10
1:C:294:LEU:CA	1:D:273:LEU:HD21	1.82	1.10
1:F:343:PHE:HB2	1:G:469:GLY:HA2	1.21	1.10
1:H:424:LYS:HE2	1:H:441:LEU:HD12	1.22	1.10
1:A:256:GLN:NE2	1:B:231:ARG:HD2	1.64	1.10
1:C:299:GLN:NE2	1:D:227:ASN:HD21	1.49	1.10
1:H:388:ASP:O	1:I:376:ASP:OD2	1.68	1.10
1:I:343:PHE:HB2	1:J:469:GLY:HA2	1.21	1.10
1:K:404:LEU:HD12	1:K:417:PRO:HA	1.13	1.10
1:K:299:GLN:NE2	1:L:227:ASN:HD21	1.49	1.10
1:D:294:LEU:CA	1:E:273:LEU:HD21	1.82	1.10
1:D:387:LYS:HB3	2:P:102:LYS:HD3	1.23	1.10
1:D:256:GLN:HE22	1:E:231:ARG:HD2	0.97	1.10
1:H:354:ASP:H	1:H:383:THR:HG22	1.10	1.10
1:I:256:GLN:NE2	1:J:231:ARG:HD2	1.64	1.10
1:B:256:GLN:NE2	1:C:231:ARG:HD2	1.64	1.10
1:B:418:ARG:HD2	1:B:481:VAL:HB	1.26	1.10
1:E:299:GLN:NE2	1:F:227:ASN:HD21	1.49	1.10
1:E:447:GLN:HG3	1:F:508:GLU:OE2	1.42	1.10
1:F:294:LEU:CA	1:G:273:LEU:HD21	1.82	1.10
1:J:265:LYS:HE3	1:K:245:LEU:CD2	1.55	1.10
1:K:256:GLN:NE2	1:L:231:ARG:HD2	1.64	1.10
1:L:418:ARG:HD2	1:L:481:VAL:HB	1.25	1.10
1:E:389:VAL:HG22	1:F:376:ASP:CG	1.71	1.10
1:G:265:LYS:HE3	1:H:245:LEU:CD2	1.55	1.10
1:J:256:GLN:NE2	1:K:231:ARG:HD2	1.64	1.10
1:B:388:ASP:O	1:C:376:ASP:OD2	1.68	1.10
1:D:388:ASP:O	1:E:376:ASP:OD2	1.68	1.10
1:G:404:LEU:HD12	1:G:417:PRO:HA	1.13	1.10
1:H:294:LEU:CA	1:I:273:LEU:HD21	1.81	1.10
1:H:389:VAL:HG22	1:I:376:ASP:CG	1.71	1.10
1:I:256:GLN:HE22	1:J:231:ARG:HD2	0.97	1.10
1:K:354:ASP:H	1:K:383:THR:HG22	1.10	1.10
1:G:389:VAL:HG22	1:H:376:ASP:CG	1.71	1.09

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:227:ASN:HD21	1:L:299:GLN:NE2	1.49	1.09
1:D:447:GLN:CD	1:E:508:GLU:OE2	1.86	1.09
1:F:387:LYS:HB3	2:R:102:LYS:HD3	1.23	1.09
1:I:465:ALA:HB2	1:I:475:ILE:HD11	1.30	1.09
1:I:294:LEU:HD21	1:J:227:ASN:CB	1.80	1.09
1:J:294:LEU:CA	1:K:273:LEU:HD21	1.82	1.09
1:K:294:LEU:HD21	1:L:227:ASN:HB2	1.26	1.09
1:K:424:LYS:HE2	1:K:441:LEU:HD12	1.22	1.09
1:E:388:ASP:O	1:F:376:ASP:OD2	1.68	1.09
1:G:294:LEU:HD21	1:H:227:ASN:CB	1.80	1.09
1:J:389:VAL:HG22	1:K:376:ASP:CG	1.71	1.09
1:B:294:LEU:CA	1:C:273:LEU:HD21	1.81	1.09
1:E:294:LEU:CA	1:F:273:LEU:HD21	1.81	1.09
1:E:447:GLN:CD	1:F:508:GLU:OE2	1.86	1.09
1:I:294:LEU:CA	1:J:273:LEU:HD21	1.82	1.09
1:K:418:ARG:HD2	1:K:481:VAL:HB	1.26	1.09
1:A:294:LEU:HD21	1:B:227:ASN:HB2	1.26	1.09
1:C:387:LYS:HB3	2:O:102:LYS:HD3	1.23	1.09
1:E:387:LYS:HB3	2:Q:102:LYS:HD3	1.23	1.09
1:G:388:ASP:O	1:H:376:ASP:OD2	1.68	1.09
1:H:465:ALA:HB2	1:H:475:ILE:HD11	1.30	1.09
1:I:294:LEU:HG	1:J:273:LEU:HD22	1.13	1.09
1:J:343:PHE:HB2	1:K:469:GLY:HA2	1.21	1.09
1:J:293:ARG:HH12	1:K:272:THR:HG21	1.07	1.09
1:C:294:LEU:HG	1:D:273:LEU:HD22	1.13	1.09
1:D:299:GLN:NE2	1:E:227:ASN:HD21	1.49	1.09
1:H:447:GLN:HG3	1:I:508:GLU:OE2	1.42	1.09
1:J:418:ARG:HD2	1:J:481:VAL:HB	1.26	1.09
1:A:256:GLN:HE22	1:B:231:ARG:HD2	0.97	1.09
1:D:424:LYS:HB2	1:D:441:LEU:HD13	1.35	1.09
1:H:299:GLN:NE2	1:I:227:ASN:HD21	1.49	1.09
1:H:424:LYS:HB2	1:H:441:LEU:HD13	1.35	1.09
1:A:424:LYS:HE2	1:A:441:LEU:HD12	1.22	1.09
1:A:465:ALA:HB2	1:A:475:ILE:HD11	1.30	1.09
1:H:404:LEU:HD12	1:H:417:PRO:HA	1.13	1.09
1:J:404:LEU:HD12	1:J:417:PRO:HA	1.13	1.09
1:B:256:GLN:HE22	1:C:231:ARG:HD2	0.97	1.09
1:C:388:ASP:O	1:D:376:ASP:OD2	1.68	1.09
1:E:465:ALA:HB2	1:E:475:ILE:HD11	1.30	1.09
1:H:294:LEU:HD21	1:I:227:ASN:CB	1.80	1.09
1:I:418:ARG:HD2	1:I:481:VAL:HB	1.25	1.09

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:227:ASN:HB2	1:L:294:LEU:HD21	1.26	1.09
1:C:389:VAL:HG22	1:D:376:ASP:CG	1.71	1.09
1:E:424:LYS:HB2	1:E:441:LEU:HD13	1.35	1.09
1:J:294:LEU:HD21	1:K:227:ASN:HB2	1.26	1.09
1:A:273:LEU:HD21	1:L:294:LEU:CA	1.82	1.09
1:A:273:LEU:HD22	1:L:294:LEU:HG	1.13	1.08
1:B:389:VAL:HG22	1:C:376:ASP:CG	1.71	1.08
1:G:424:LYS:HB2	1:G:441:LEU:HD13	1.35	1.08
1:I:404:LEU:HD12	1:I:417:PRO:HA	1.13	1.08
1:J:465:ALA:HB2	1:J:475:ILE:HD11	1.30	1.08
1:J:354:ASP:H	1:J:383:THR:HG22	1.09	1.08
1:C:294:LEU:HD21	1:D:227:ASN:HB2	1.26	1.08
1:I:447:GLN:HG3	1:J:508:GLU:OE2	1.42	1.08
1:A:376:ASP:CG	1:L:389:VAL:HG22	1.71	1.08
1:L:465:ALA:HB2	1:L:475:ILE:HD11	1.30	1.08
1:A:418:ARG:HD2	1:A:481:VAL:HB	1.26	1.08
1:B:294:LEU:HD21	1:C:227:ASN:HB2	1.26	1.08
1:F:349:SER:OG	2:R:102:LYS:HG2	1.54	1.08
1:I:424:LYS:HB2	1:I:441:LEU:HD13	1.35	1.08
1:E:349:SER:OG	2:Q:102:LYS:HG2	1.54	1.08
1:E:293:ARG:HH12	1:F:272:THR:HG21	1.07	1.08
1:H:293:ARG:HH12	1:I:272:THR:HG21	1.07	1.08
1:J:447:GLN:HG3	1:K:508:GLU:OE2	1.42	1.08
1:J:256:GLN:HE22	1:K:231:ARG:HD2	0.97	1.08
1:C:256:GLN:HE22	1:D:231:ARG:HD2	0.97	1.08
1:D:389:VAL:HG22	1:E:376:ASP:CG	1.71	1.08
1:I:294:LEU:HD21	1:J:227:ASN:HB2	1.26	1.08
1:K:389:VAL:HG22	1:L:376:ASP:CG	1.71	1.08
1:B:293:ARG:HH12	1:C:272:THR:HG21	1.07	1.08
1:C:424:LYS:HB2	1:C:441:LEU:HD13	1.35	1.08
1:C:396:ASP:CG	1:D:467:THR:HG21	1.74	1.08
1:G:294:LEU:CA	1:H:273:LEU:HD21	1.82	1.08
1:I:354:ASP:H	1:I:383:THR:HG22	1.09	1.08
1:A:389:VAL:HG22	1:B:376:ASP:CG	1.71	1.08
1:E:396:ASP:CG	1:F:467:THR:HG21	1.74	1.08
1:D:396:ASP:CG	1:E:467:THR:HG21	1.74	1.08
1:F:396:ASP:CG	1:G:467:THR:HG21	1.74	1.07
1:H:418:ARG:HD2	1:H:481:VAL:HB	1.26	1.07
1:J:424:LYS:HE2	1:J:441:LEU:HD12	1.22	1.07
1:B:349:SER:OG	2:N:102:LYS:HG2	1.54	1.07
1:F:388:ASP:O	1:G:376:ASP:OD2	1.68	1.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:265:LYS:HE3	1:L:245:LEU:CD2	1.55	1.07
1:C:396:ASP:OD2	1:D:467:THR:HG21	1.55	1.07
1:G:349:SER:OG	2:S:102:LYS:HG2	1.54	1.07
1:J:424:LYS:HB2	1:J:441:LEU:HD13	1.35	1.07
1:F:424:LYS:HB2	1:F:441:LEU:HD13	1.35	1.07
1:H:349:SER:OG	2:T:102:LYS:HG2	1.54	1.07
1:G:465:ALA:HB2	1:G:475:ILE:HD11	1.30	1.07
1:D:349:SER:OG	2:P:102:LYS:HG2	1.54	1.07
1:B:424:LYS:HB2	1:B:441:LEU:HD13	1.35	1.07
1:B:396:ASP:CG	1:C:467:THR:HG21	1.74	1.07
1:K:396:ASP:OD1	1:L:467:THR:HG22	1.55	1.07
1:F:265:LYS:HE3	1:G:245:LEU:CD2	1.55	1.07
1:G:396:ASP:CG	1:H:467:THR:HG21	1.74	1.07
1:J:294:LEU:HG	1:K:273:LEU:HD22	1.13	1.07
1:A:294:LEU:HG	1:B:273:LEU:HD22	1.13	1.07
1:B:294:LEU:HG	1:C:273:LEU:HD22	1.13	1.07
1:B:396:ASP:OD2	1:C:467:THR:HG21	1.55	1.06
1:L:349:SER:OG	2:X:102:LYS:HG2	1.54	1.06
1:A:231:ARG:HD2	1:L:256:GLN:HE22	0.97	1.06
1:E:265:LYS:HE3	1:F:245:LEU:CD2	1.55	1.06
1:I:396:ASP:OD1	1:J:467:THR:HG22	1.55	1.06
1:K:349:SER:OG	2:W:102:LYS:HG2	1.54	1.06
1:K:465:ALA:HB2	1:K:475:ILE:HD11	1.30	1.06
1:K:294:LEU:HG	1:L:273:LEU:HD22	1.13	1.06
1:J:396:ASP:CG	1:K:467:THR:HG21	1.74	1.06
1:A:396:ASP:OD1	1:B:467:THR:HG22	1.55	1.06
1:D:396:ASP:OD2	1:E:467:THR:HG21	1.55	1.06
1:E:396:ASP:OD2	1:F:467:THR:HG21	1.55	1.06
1:I:396:ASP:CG	1:J:467:THR:HG21	1.74	1.06
1:A:467:THR:HG21	1:L:396:ASP:CG	1.74	1.06
1:F:465:ALA:HB2	1:F:475:ILE:HD11	1.30	1.06
1:H:396:ASP:CG	1:I:467:THR:HG21	1.74	1.06
1:K:256:GLN:HE22	1:L:231:ARG:HD2	0.97	1.06
1:A:424:LYS:HB2	1:A:441:LEU:HD13	1.35	1.06
1:A:396:ASP:CG	1:B:467:THR:HG21	1.74	1.06
1:K:424:LYS:HB2	1:K:441:LEU:HD13	1.35	1.06
1:L:424:LYS:HB2	1:L:441:LEU:HD13	1.35	1.06
1:C:349:SER:OG	2:O:102:LYS:HG2	1.54	1.06
1:A:349:SER:OG	2:M:102:LYS:HG2	1.54	1.06
1:I:349:SER:OG	2:U:102:LYS:HG2	1.54	1.05
1:J:349:SER:OG	2:V:102:LYS:HG2	1.54	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:295:ASN:H	1:C:273:LEU:HD21	1.04	1.05
1:I:396:ASP:OD2	1:J:467:THR:HG21	1.55	1.05
1:H:396:ASP:OD1	1:I:467:THR:HG22	1.55	1.05
1:K:396:ASP:CG	1:L:467:THR:HG21	1.74	1.05
1:A:396:ASP:OD2	1:B:467:THR:HG21	1.55	1.05
1:G:396:ASP:OD2	1:H:467:THR:HG21	1.55	1.05
1:C:295:ASN:H	1:D:273:LEU:HD21	1.04	1.05
1:A:295:ASN:H	1:B:273:LEU:HD21	1.04	1.04
1:G:396:ASP:OD1	1:H:467:THR:HG22	1.55	1.04
1:D:265:LYS:HE3	1:E:245:LEU:CD2	1.55	1.04
1:F:396:ASP:OD1	1:G:467:THR:HG22	1.55	1.04
1:A:467:THR:HG21	1:L:396:ASP:OD2	1.55	1.04
1:J:396:ASP:OD1	1:K:467:THR:HG22	1.55	1.04
1:K:396:ASP:OD2	1:L:467:THR:HG21	1.55	1.04
1:F:396:ASP:OD2	1:G:467:THR:HG21	1.55	1.04
1:A:245:LEU:CD2	1:L:265:LYS:HE3	1.55	1.04
1:J:343:PHE:CB	1:K:469:GLY:CA	2.36	1.04
1:B:256:GLN:HE22	1:C:231:ARG:CD	1.71	1.03
1:H:396:ASP:OD2	1:I:467:THR:HG21	1.55	1.03
1:K:256:GLN:HE22	1:L:231:ARG:CD	1.71	1.03
1:A:231:ARG:CD	1:L:256:GLN:HE22	1.72	1.03
1:C:256:GLN:HE22	1:D:231:ARG:CD	1.72	1.03
1:A:256:GLN:HE22	1:B:231:ARG:CD	1.72	1.03
1:K:343:PHE:CB	1:L:469:GLY:CA	2.36	1.03
1:H:343:PHE:CB	1:I:469:GLY:CA	2.36	1.03
1:D:256:GLN:HE22	1:E:231:ARG:CD	1.72	1.03
1:D:295:ASN:H	1:E:273:LEU:HD21	1.04	1.03
1:E:256:GLN:HE22	1:F:231:ARG:CD	1.71	1.03
1:G:293:ARG:HH12	1:H:272:THR:HG21	1.07	1.03
1:A:467:THR:HG22	1:L:396:ASP:OD1	1.55	1.03
1:C:396:ASP:OD1	1:D:467:THR:HG22	1.55	1.03
1:J:256:GLN:HE22	1:K:231:ARG:CD	1.72	1.03
1:I:256:GLN:HE22	1:J:231:ARG:CD	1.72	1.03
1:K:293:ARG:HH12	1:L:272:THR:HG21	1.07	1.03
1:A:273:LEU:HD21	1:L:295:ASN:H	1.04	1.03
1:C:265:LYS:HE3	1:D:245:LEU:CD2	1.55	1.03
1:F:256:GLN:HE22	1:G:231:ARG:CD	1.72	1.03
1:D:396:ASP:OD1	1:E:467:THR:HG22	1.55	1.02
1:H:256:GLN:HE22	1:I:231:ARG:CD	1.71	1.02
1:C:295:ASN:N	1:D:273:LEU:CD2	2.13	1.02
1:F:295:ASN:N	1:G:273:LEU:CD2	2.13	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:343:PHE:CB	1:H:469:GLY:CA	2.36	1.02
1:J:396:ASP:OD2	1:K:467:THR:HG21	1.55	1.02
1:G:256:GLN:HE22	1:H:231:ARG:CD	1.72	1.02
1:I:343:PHE:CB	1:J:469:GLY:CA	2.36	1.02
1:I:293:ARG:HH12	1:J:272:THR:HG21	1.07	1.02
1:G:343:PHE:CD1	1:H:469:GLY:HA2	1.95	1.02
1:B:396:ASP:OD1	1:C:467:THR:HG22	1.55	1.02
1:A:343:PHE:CB	1:B:469:GLY:CA	2.36	1.02
1:F:343:PHE:CD1	1:G:469:GLY:HA2	1.95	1.02
1:K:343:PHE:CD1	1:L:469:GLY:HA2	1.95	1.02
1:K:347:LYS:HZ2	2:W:104:GLY:HA2	1.21	1.02
1:A:469:GLY:HA2	1:L:343:PHE:CD1	1.95	1.02
1:A:469:GLY:CA	1:L:343:PHE:CB	2.36	1.02
1:B:265:LYS:HE3	1:C:245:LEU:CD2	1.55	1.02
1:J:343:PHE:CD1	1:K:469:GLY:HA2	1.95	1.01
1:A:343:PHE:CD1	1:B:469:GLY:HA2	1.95	1.01
1:B:343:PHE:CD1	1:C:469:GLY:HA2	1.95	1.01
1:H:343:PHE:CD1	1:I:469:GLY:HA2	1.95	1.01
1:A:265:LYS:HE3	1:B:245:LEU:CD2	1.55	1.01
1:D:295:ASN:N	1:E:273:LEU:CD2	2.13	1.01
1:E:343:PHE:CD1	1:F:469:GLY:HA2	1.95	1.01
1:B:343:PHE:CB	1:C:469:GLY:CA	2.36	1.01
1:C:343:PHE:CD1	1:D:469:GLY:HA2	1.95	1.01
1:D:293:ARG:HH12	1:E:272:THR:HG21	1.07	1.00
1:E:295:ASN:H	1:F:273:LEU:HD21	1.04	1.00
1:K:295:ASN:H	1:L:273:LEU:HD21	1.04	1.00
1:I:343:PHE:CD1	1:J:469:GLY:HA2	1.95	1.00
1:D:343:PHE:CD1	1:E:469:GLY:HA2	1.95	1.00
1:H:294:LEU:C	1:I:273:LEU:HD21	1.82	1.00
1:J:396:ASP:CG	1:K:467:THR:CG2	2.30	1.00
1:I:396:ASP:CG	1:J:467:THR:CG2	2.30	1.00
1:G:294:LEU:C	1:H:273:LEU:HD21	1.82	1.00
1:I:294:LEU:C	1:J:273:LEU:HD21	1.82	1.00
1:K:265:LYS:HE2	1:L:245:LEU:CB	1.64	1.00
1:E:343:PHE:CB	1:F:469:GLY:CA	2.36	1.00
1:C:261:ILE:HG12	1:D:229:ASP:CG	1.82	1.00
1:D:261:ILE:HG12	1:E:229:ASP:CG	1.82	1.00
1:F:294:LEU:C	1:G:273:LEU:HD21	1.82	1.00
1:H:396:ASP:CG	1:I:467:THR:CG2	2.30	1.00
1:B:261:ILE:HG12	1:C:229:ASP:CG	1.82	1.00
1:F:343:PHE:CB	1:G:469:GLY:CA	2.36	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:294:LEU:C	1:K:273:LEU:HD21	1.82	1.00
1:A:293:ARG:HH12	1:B:272:THR:HG21	1.07	0.99
1:D:343:PHE:CB	1:E:469:GLY:CA	2.36	0.99
1:E:261:ILE:HG12	1:F:229:ASP:CG	1.82	0.99
1:E:294:LEU:C	1:F:273:LEU:HD21	1.82	0.99
1:H:373:VAL:HG21	1:H:412:ILE:HD11	1.43	0.99
1:E:396:ASP:OD1	1:F:467:THR:HG22	1.55	0.99
1:K:294:LEU:C	1:L:273:LEU:HD21	1.82	0.99
1:A:261:ILE:HG12	1:B:229:ASP:CG	1.82	0.99
1:D:389:VAL:CG2	1:E:376:ASP:CG	2.31	0.99
1:J:389:VAL:CG2	1:K:376:ASP:CG	2.31	0.99
1:F:261:ILE:HG12	1:G:229:ASP:CG	1.82	0.99
1:G:396:ASP:CG	1:H:467:THR:CG2	2.30	0.99
1:J:265:LYS:HE2	1:K:245:LEU:CB	1.64	0.99
1:G:261:ILE:HG12	1:H:229:ASP:CG	1.82	0.99
1:J:295:ASN:H	1:K:273:LEU:HD21	1.04	0.99
1:G:373:VAL:HG21	1:G:412:ILE:HD11	1.43	0.99
1:H:261:ILE:HG12	1:I:229:ASP:CG	1.82	0.99
1:I:373:VAL:HG21	1:I:412:ILE:HD11	1.43	0.99
1:A:229:ASP:CG	1:L:261:ILE:HG12	1.82	0.99
1:F:295:ASN:H	1:G:273:LEU:HD21	1.04	0.99
1:G:389:VAL:CG2	1:H:376:ASP:CG	2.31	0.99
1:A:389:VAL:CG2	1:B:376:ASP:CG	2.31	0.99
1:D:294:LEU:C	1:E:273:LEU:HD21	1.82	0.99
1:A:273:LEU:HD21	1:L:294:LEU:C	1.82	0.98
1:B:347:LYS:NZ	2:N:104:GLY:CA	2.26	0.98
1:E:389:VAL:CG2	1:F:376:ASP:CG	2.31	0.98
1:G:347:LYS:NZ	2:S:104:GLY:CA	2.26	0.98
1:I:261:ILE:HG12	1:J:229:ASP:CG	1.82	0.98
1:K:389:VAL:CG2	1:L:376:ASP:CG	2.31	0.98
1:C:347:LYS:NZ	2:O:104:GLY:CA	2.26	0.98
1:C:396:ASP:CG	1:D:467:THR:CG2	2.30	0.98
1:C:343:PHE:CB	1:D:469:GLY:CA	2.36	0.98
1:F:347:LYS:NZ	2:R:104:GLY:CA	2.26	0.98
1:G:299:GLN:NE2	1:H:227:ASN:ND2	2.09	0.98
1:A:347:LYS:NZ	2:M:104:GLY:CA	2.26	0.98
1:B:396:ASP:CG	1:C:467:THR:CG2	2.30	0.98
1:D:347:LYS:NZ	2:P:104:GLY:CA	2.26	0.98
1:E:347:LYS:NZ	2:Q:104:GLY:CA	2.26	0.98
1:F:396:ASP:CG	1:G:467:THR:CG2	2.30	0.98
1:I:389:VAL:CG2	1:J:376:ASP:CG	2.31	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:261:ILE:HG12	1:L:229:ASP:CG	1.82	0.98
1:C:294:LEU:C	1:D:273:LEU:HD21	1.82	0.98
1:C:389:VAL:CG2	1:D:376:ASP:CG	2.31	0.98
1:F:389:VAL:CG2	1:G:376:ASP:CG	2.31	0.98
1:H:295:ASN:N	1:I:273:LEU:CD2	2.13	0.98
1:H:299:GLN:NE2	1:I:227:ASN:ND2	2.09	0.98
1:A:347:LYS:HZ2	2:M:104:GLY:HA2	1.17	0.98
1:B:294:LEU:C	1:C:273:LEU:HD21	1.82	0.98
1:H:347:LYS:NZ	2:T:104:GLY:CA	2.26	0.98
1:H:389:VAL:CG2	1:I:376:ASP:CG	2.31	0.98
1:A:376:ASP:CG	1:L:389:VAL:CG2	2.31	0.98
1:A:424:LYS:HD2	1:A:440:ALA:HA	1.46	0.98
1:B:389:VAL:CG2	1:C:376:ASP:CG	2.31	0.98
1:L:347:LYS:NZ	2:X:104:GLY:CA	2.26	0.98
1:B:424:LYS:HD2	1:B:440:ALA:HA	1.46	0.98
1:J:261:ILE:HG12	1:K:229:ASP:CG	1.82	0.98
1:L:424:LYS:HD2	1:L:440:ALA:HA	1.46	0.98
1:A:294:LEU:C	1:B:273:LEU:HD21	1.82	0.98
1:C:424:LYS:HD2	1:C:440:ALA:HA	1.46	0.98
1:K:424:LYS:HD2	1:K:440:ALA:HA	1.46	0.98
1:F:373:VAL:HG21	1:F:412:ILE:HD11	1.43	0.98
1:J:373:VAL:HG21	1:J:412:ILE:HD11	1.43	0.98
1:E:396:ASP:CG	1:F:467:THR:CG2	2.30	0.97
1:G:295:ASN:H	1:H:273:LEU:HD21	1.04	0.97
1:I:295:ASN:H	1:J:273:LEU:HD21	1.04	0.97
1:D:424:LYS:HD2	1:D:440:ALA:HA	1.46	0.97
1:K:347:LYS:NZ	2:W:104:GLY:CA	2.26	0.97
1:A:273:LEU:CD2	1:L:295:ASN:N	2.13	0.97
1:E:299:GLN:NE2	1:F:227:ASN:ND2	2.09	0.97
1:C:347:LYS:HZ1	2:O:104:GLY:HA2	1.16	0.97
1:D:396:ASP:CG	1:E:467:THR:CG2	2.30	0.97
1:I:347:LYS:NZ	2:U:104:GLY:CA	2.26	0.97
1:A:227:ASN:ND2	1:L:299:GLN:NE2	2.09	0.97
1:A:299:GLN:NE2	1:B:227:ASN:ND2	2.09	0.97
1:B:299:GLN:NE2	1:C:227:ASN:ND2	2.09	0.97
1:C:373:VAL:HG21	1:C:412:ILE:HD11	1.43	0.97
1:I:299:GLN:NE2	1:J:227:ASN:ND2	2.09	0.97
1:J:424:LYS:HD2	1:J:440:ALA:HA	1.46	0.97
1:K:373:VAL:HG21	1:K:412:ILE:HD11	1.43	0.97
1:D:299:GLN:NE2	1:E:227:ASN:ND2	2.09	0.97
1:L:373:VAL:HG21	1:L:412:ILE:HD11	1.43	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:299:GLN:NE2	1:D:227:ASN:ND2	2.09	0.97
1:H:295:ASN:H	1:I:273:LEU:HD21	1.04	0.97
1:B:295:ASN:N	1:C:273:LEU:CD2	2.13	0.97
1:J:347:LYS:NZ	2:V:104:GLY:CA	2.26	0.97
1:E:347:LYS:HZ1	2:Q:104:GLY:HA2	1.19	0.97
1:D:373:VAL:HG21	1:D:412:ILE:HD11	1.43	0.96
1:K:299:GLN:NE2	1:L:227:ASN:ND2	2.09	0.96
1:B:347:LYS:HZ1	2:N:104:GLY:HA2	1.18	0.96
1:E:295:ASN:N	1:F:273:LEU:CD2	2.13	0.96
1:E:373:VAL:HG21	1:E:412:ILE:HD11	1.43	0.96
1:E:424:LYS:HD2	1:E:440:ALA:HA	1.46	0.96
1:I:295:ASN:N	1:J:273:LEU:CD2	2.13	0.96
1:H:347:LYS:HZ2	2:T:104:GLY:HA2	1.24	0.96
1:F:424:LYS:HD2	1:F:440:ALA:HA	1.46	0.96
1:G:295:ASN:N	1:H:273:LEU:CD2	2.13	0.96
1:G:424:LYS:HD2	1:G:440:ALA:HA	1.46	0.96
1:A:373:VAL:HG21	1:A:412:ILE:HD11	1.43	0.96
1:B:373:VAL:HG21	1:B:412:ILE:HD11	1.43	0.96
1:J:295:ASN:N	1:K:273:LEU:CD2	2.13	0.96
1:H:424:LYS:HD2	1:H:440:ALA:HA	1.46	0.95
1:D:492:VAL:HG11	1:D:499:ILE:HG13	1.48	0.95
1:E:492:VAL:HG11	1:E:499:ILE:HG13	1.48	0.95
1:K:396:ASP:CG	1:L:467:THR:CG2	2.30	0.95
1:A:467:THR:CG2	1:L:396:ASP:CG	2.30	0.95
1:H:492:VAL:HG11	1:H:499:ILE:HG13	1.48	0.95
1:I:424:LYS:HD2	1:I:440:ALA:HA	1.46	0.95
1:G:492:VAL:HG11	1:G:499:ILE:HG13	1.48	0.95
1:A:295:ASN:N	1:B:273:LEU:CD2	2.13	0.95
1:K:294:LEU:CG	1:L:273:LEU:HD22	1.97	0.95
1:A:492:VAL:HG11	1:A:499:ILE:HG13	1.48	0.95
1:B:492:VAL:HG11	1:B:499:ILE:HG13	1.48	0.95
2:N:95:MET:HG2	2:N:113:ALA:HB2	1.49	0.95
2:O:95:MET:HG2	2:O:113:ALA:HB2	1.49	0.95
1:F:294:LEU:CG	1:G:273:LEU:CD2	2.45	0.95
1:I:265:LYS:HE2	1:J:245:LEU:CB	1.64	0.95
2:P:95:MET:HG2	2:P:113:ALA:HB2	1.49	0.95
1:A:294:LEU:CG	1:B:273:LEU:HD22	1.97	0.94
1:J:299:GLN:NE2	1:K:227:ASN:ND2	2.09	0.94
1:B:294:LEU:CG	1:C:273:LEU:HD22	1.97	0.94
1:D:294:LEU:CG	1:E:273:LEU:HD22	1.97	0.94
1:I:294:LEU:CG	1:J:273:LEU:HD22	1.97	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:95:MET:HG2	2:M:113:ALA:HB2	1.49	0.94
1:A:396:ASP:CG	1:B:467:THR:CG2	2.30	0.94
1:H:294:LEU:CG	1:I:273:LEU:HD22	1.97	0.94
1:B:347:LYS:HZ2	2:N:104:GLY:HA2	1.16	0.94
1:I:347:LYS:HZ2	2:U:104:GLY:HA2	1.13	0.94
1:C:294:LEU:CG	1:D:273:LEU:CD2	2.45	0.94
1:F:265:LYS:HE2	1:G:245:LEU:CB	1.64	0.94
1:F:294:LEU:CG	1:G:273:LEU:HD22	1.97	0.94
1:F:347:LYS:HZ1	2:R:104:GLY:HA2	1.18	0.94
1:B:396:ASP:OD1	1:C:467:THR:HG21	1.67	0.94
1:E:294:LEU:CG	1:F:273:LEU:CD2	2.45	0.94
1:J:347:LYS:HZ2	2:V:104:GLY:HA2	1.16	0.94
1:K:295:ASN:N	1:L:273:LEU:CD2	2.13	0.94
1:A:273:LEU:CD2	1:L:294:LEU:CG	2.45	0.94
1:C:294:LEU:CG	1:D:273:LEU:HD22	1.97	0.94
1:D:294:LEU:CG	1:E:273:LEU:CD2	2.45	0.94
1:J:294:LEU:CG	1:K:273:LEU:CD2	2.45	0.94
2:X:95:MET:HG2	2:X:113:ALA:HB2	1.49	0.94
1:A:347:LYS:HZ1	2:M:104:GLY:HA2	1.16	0.94
2:T:95:MET:HG2	2:T:113:ALA:HB2	1.49	0.94
1:H:294:LEU:CG	1:I:273:LEU:CD2	2.45	0.94
1:J:492:VAL:HG11	1:J:499:ILE:HG13	1.48	0.94
1:J:294:LEU:CG	1:K:273:LEU:HD22	1.97	0.94
1:K:492:VAL:HG11	1:K:499:ILE:HG13	1.48	0.94
1:A:467:THR:HG21	1:L:396:ASP:OD1	1.67	0.94
2:U:95:MET:HG2	2:U:113:ALA:HB2	1.49	0.94
1:A:343:PHE:CG	1:B:469:GLY:HA2	2.04	0.93
1:C:265:LYS:HE2	1:D:245:LEU:CB	1.64	0.93
1:G:294:LEU:CG	1:H:273:LEU:CD2	2.45	0.93
2:Q:95:MET:HG2	2:Q:113:ALA:HB2	1.49	0.93
1:A:273:LEU:HD22	1:L:294:LEU:CG	1.97	0.93
1:A:294:LEU:CG	1:B:273:LEU:CD2	2.45	0.93
1:G:294:LEU:CG	1:H:273:LEU:HD22	1.97	0.93
1:F:343:PHE:CG	1:G:469:GLY:HA2	2.04	0.93
1:I:294:LEU:CG	1:J:273:LEU:CD2	2.45	0.93
1:J:406:MET:HB3	1:K:468:THR:CG2	1.99	0.93
1:A:406:MET:HB3	1:B:468:THR:CG2	1.99	0.93
1:E:406:MET:HB3	1:F:468:THR:CG2	1.99	0.93
1:D:343:PHE:CG	1:E:469:GLY:HA2	2.04	0.93
1:G:406:MET:HB3	1:H:468:THR:CG2	1.99	0.93
1:C:343:PHE:CG	1:D:469:GLY:HA2	2.04	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:265:LYS:HE2	1:I:245:LEU:CB	1.64	0.93
1:K:343:PHE:CG	1:L:469:GLY:HA2	2.04	0.93
1:C:492:VAL:HG11	1:C:499:ILE:HG13	1.48	0.93
1:D:406:MET:HB3	1:E:468:THR:CG2	1.99	0.93
1:H:406:MET:HB3	1:I:468:THR:CG2	1.99	0.93
1:K:294:LEU:CG	1:L:273:LEU:CD2	2.45	0.93
1:K:406:MET:HB3	1:L:468:THR:CG2	1.99	0.93
1:F:347:LYS:HZ2	2:R:104:GLY:HA2	1.16	0.93
2:S:95:MET:HG2	2:S:113:ALA:HB2	1.49	0.93
1:F:492:VAL:HG11	1:F:499:ILE:HG13	1.48	0.93
1:D:347:LYS:CE	2:P:104:GLY:HA2	1.99	0.93
1:B:406:MET:HB3	1:C:468:THR:CG2	1.99	0.93
1:B:294:LEU:CG	1:C:273:LEU:CD2	2.45	0.93
1:E:294:LEU:CG	1:F:273:LEU:HD22	1.97	0.93
1:C:347:LYS:CE	2:O:104:GLY:HA2	1.99	0.93
1:H:343:PHE:CG	1:I:469:GLY:HA2	2.04	0.93
2:W:95:MET:HG2	2:W:113:ALA:HB2	1.49	0.93
1:J:396:ASP:OD1	1:K:467:THR:HG21	1.67	0.92
1:J:343:PHE:CG	1:K:469:GLY:HA2	2.04	0.92
1:C:347:LYS:HZ2	2:O:104:GLY:HA2	1.17	0.92
2:V:95:MET:HG2	2:V:113:ALA:HB2	1.49	0.92
1:A:468:THR:CG2	1:L:406:MET:HB3	1.99	0.92
1:F:459:ILE:HD13	1:F:509:LEU:HD11	1.50	0.92
1:I:343:PHE:CG	1:J:469:GLY:HA2	2.04	0.92
1:E:347:LYS:CE	2:Q:104:GLY:HA2	1.99	0.92
1:E:459:ILE:HD13	1:E:509:LEU:HD11	1.50	0.92
1:E:343:PHE:CG	1:F:469:GLY:HA2	2.04	0.92
1:I:492:VAL:HG11	1:I:499:ILE:HG13	1.48	0.92
1:B:347:LYS:CE	2:N:104:GLY:HA2	1.99	0.92
1:B:343:PHE:CG	1:C:469:GLY:HA2	2.04	0.92
1:L:347:LYS:HZ2	2:X:104:GLY:HA2	1.17	0.92
1:I:347:LYS:CE	2:U:104:GLY:HA2	1.99	0.92
1:C:406:MET:HB3	1:D:468:THR:CG2	1.99	0.92
1:G:265:LYS:HE2	1:H:245:LEU:CB	1.64	0.92
1:H:347:LYS:CE	2:T:104:GLY:HA2	1.99	0.92
1:I:406:MET:HB3	1:J:468:THR:CG2	1.99	0.92
1:A:469:GLY:HA2	1:L:343:PHE:CG	2.04	0.92
1:J:347:LYS:CE	2:V:104:GLY:HA2	1.99	0.92
1:L:347:LYS:HZ1	2:X:104:GLY:HA2	1.16	0.92
1:F:406:MET:HB3	1:G:468:THR:CG2	1.99	0.92
1:G:347:LYS:CE	2:S:104:GLY:HA2	1.99	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:343:PHE:CG	1:H:469:GLY:HA2	2.04	0.92
1:A:347:LYS:CE	2:M:104:GLY:HA2	1.99	0.92
1:L:492:VAL:HG11	1:L:499:ILE:HG13	1.48	0.91
1:F:347:LYS:CE	2:R:104:GLY:HA2	1.99	0.91
1:J:347:LYS:HZ1	2:V:104:GLY:HA2	1.18	0.91
1:C:459:ILE:HD13	1:C:509:LEU:HD11	1.50	0.91
1:H:459:ILE:HD13	1:H:509:LEU:HD11	1.50	0.91
1:I:343:PHE:HB3	1:J:470:ASN:N	1.85	0.91
1:K:347:LYS:CE	2:W:104:GLY:HA2	1.99	0.91
1:F:299:GLN:NE2	1:G:227:ASN:ND2	2.09	0.91
1:H:343:PHE:HB3	1:I:470:ASN:N	1.85	0.91
2:R:95:MET:HG2	2:R:113:ALA:HB2	1.49	0.91
1:G:347:LYS:HZ1	2:S:104:GLY:HA2	1.22	0.91
1:G:351:ASP:OD2	2:S:99:GLY:CA	2.19	0.91
1:A:245:LEU:CB	1:L:265:LYS:HE2	1.64	0.91
1:E:351:ASP:OD2	2:Q:99:GLY:CA	2.19	0.91
1:J:459:ILE:HD13	1:J:509:LEU:HD11	1.50	0.91
1:B:351:ASP:OD2	2:N:99:GLY:CA	2.19	0.91
1:E:265:LYS:HE2	1:F:245:LEU:CB	1.64	0.91
1:G:343:PHE:HB3	1:H:470:ASN:N	1.85	0.91
1:D:347:LYS:HZ1	2:P:104:GLY:HA2	1.08	0.91
1:L:347:LYS:CE	2:X:104:GLY:HA2	1.99	0.91
1:A:459:ILE:HD13	1:A:509:LEU:HD11	1.50	0.91
1:K:351:ASP:OD2	2:W:99:GLY:CA	2.19	0.91
1:J:343:PHE:HB3	1:K:470:ASN:N	1.85	0.91
1:D:347:LYS:HZ2	2:P:104:GLY:HA2	1.26	0.91
1:D:459:ILE:HD13	1:D:509:LEU:HD11	1.50	0.90
1:K:459:ILE:HD13	1:K:509:LEU:HD11	1.50	0.90
1:G:459:ILE:HD13	1:G:509:LEU:HD11	1.50	0.90
1:I:351:ASP:OD2	2:U:99:GLY:CA	2.19	0.90
1:I:459:ILE:HD13	1:I:509:LEU:HD11	1.50	0.90
1:C:351:ASP:OD2	2:O:99:GLY:CA	2.19	0.90
1:D:351:ASP:OD2	2:P:99:GLY:CA	2.19	0.90
1:A:470:ASN:N	1:L:343:PHE:HB3	1.85	0.90
1:L:351:ASP:OD2	2:X:99:GLY:CA	2.19	0.90
1:A:343:PHE:HB3	1:B:470:ASN:N	1.85	0.90
1:B:459:ILE:HD13	1:B:509:LEU:HD11	1.50	0.90
1:E:257:HIS:NE2	1:F:232:LYS:O	2.05	0.90
1:I:457:ARG:HH21	1:I:460:LEU:HD12	1.36	0.90
1:L:459:ILE:HD13	1:L:509:LEU:HD11	1.50	0.90
1:L:457:ARG:HH21	1:L:460:LEU:HD12	1.36	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:343:PHE:HB3	1:E:470:ASN:N	1.85	0.90
1:F:257:HIS:NE2	1:G:232:LYS:O	2.05	0.90
1:K:457:ARG:HH21	1:K:460:LEU:HD12	1.36	0.90
1:K:354:ASP:N	1:K:383:THR:HG22	1.87	0.90
1:A:351:ASP:OD2	2:M:99:GLY:CA	2.19	0.90
1:B:372:ILE:HG12	1:B:413:VAL:HG21	1.54	0.90
1:D:257:HIS:NE2	1:E:232:LYS:O	2.05	0.90
1:E:343:PHE:HB3	1:F:470:ASN:N	1.85	0.90
1:G:457:ARG:HH21	1:G:460:LEU:HD12	1.36	0.90
1:H:351:ASP:OD2	2:T:99:GLY:CA	2.19	0.90
1:I:347:LYS:HZ1	2:U:104:GLY:HA2	1.21	0.90
1:A:457:ARG:HH21	1:A:460:LEU:HD12	1.36	0.90
1:C:372:ILE:HG12	1:C:413:VAL:HG21	1.54	0.90
1:F:343:PHE:HB3	1:G:470:ASN:N	1.85	0.90
1:E:396:ASP:OD1	1:F:467:THR:HG21	1.67	0.90
1:L:354:ASP:N	1:L:383:THR:HG22	1.86	0.90
1:B:354:ASP:N	1:B:383:THR:HG22	1.87	0.89
1:D:265:LYS:HE2	1:E:245:LEU:CB	1.64	0.89
1:G:257:HIS:NE2	1:H:232:LYS:O	2.05	0.89
1:J:351:ASP:OD2	2:V:99:GLY:CA	2.19	0.89
1:F:351:ASP:OD2	2:R:99:GLY:CA	2.19	0.89
1:I:354:ASP:N	1:I:383:THR:HG22	1.86	0.89
1:J:457:ARG:HH21	1:J:460:LEU:HD12	1.36	0.89
1:A:354:ASP:N	1:A:383:THR:HG22	1.87	0.89
1:A:372:ILE:HG12	1:A:413:VAL:HG21	1.54	0.89
1:C:343:PHE:HB3	1:D:470:ASN:N	1.85	0.89
1:B:343:PHE:HB3	1:C:470:ASN:N	1.85	0.89
1:G:354:ASP:N	1:G:383:THR:HG22	1.87	0.89
1:K:343:PHE:HB3	1:L:470:ASN:N	1.85	0.89
1:G:347:LYS:HZ2	2:S:104:GLY:HA2	1.12	0.89
1:K:347:LYS:HZ1	2:W:104:GLY:HA2	1.12	0.89
1:C:257:HIS:NE2	1:D:232:LYS:O	2.05	0.89
1:B:457:ARG:HH21	1:B:460:LEU:HD12	1.36	0.89
1:D:372:ILE:HG12	1:D:413:VAL:HG21	1.54	0.89
1:E:354:ASP:N	1:E:383:THR:HG22	1.87	0.89
1:H:257:HIS:NE2	1:I:232:LYS:O	2.05	0.89
1:C:424:LYS:HE2	1:C:441:LEU:CD1	2.03	0.89
1:D:354:ASP:N	1:D:383:THR:HG22	1.87	0.89
1:H:396:ASP:OD1	1:I:467:THR:HG21	1.67	0.89
1:H:424:LYS:HB2	1:H:441:LEU:CD1	2.03	0.89
1:J:257:HIS:NE2	1:K:232:LYS:O	2.05	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:424:LYS:HE2	1:F:441:LEU:CD1	2.03	0.89
1:I:349:SER:OG	2:U:102:LYS:CG	2.21	0.89
1:K:257:HIS:NE2	1:L:232:LYS:O	2.05	0.89
1:B:257:HIS:NE2	1:C:232:LYS:O	2.05	0.89
1:I:257:HIS:NE2	1:J:232:LYS:O	2.05	0.89
1:E:424:LYS:HE2	1:E:441:LEU:CD1	2.03	0.88
1:H:424:LYS:HE2	1:H:441:LEU:CD1	2.03	0.88
1:B:349:SER:OG	2:N:102:LYS:CG	2.21	0.88
1:G:349:SER:OG	2:S:102:LYS:CG	2.21	0.88
1:L:372:ILE:HG12	1:L:413:VAL:HG21	1.54	0.88
1:A:418:ARG:HD2	1:A:481:VAL:CB	2.04	0.88
1:C:396:ASP:OD1	1:D:467:THR:HG21	1.67	0.88
1:E:424:LYS:HB2	1:E:441:LEU:CD1	2.03	0.88
1:J:418:ARG:HD2	1:J:481:VAL:CB	2.04	0.88
1:A:232:LYS:O	1:L:257:HIS:NE2	2.05	0.88
1:A:257:HIS:NE2	1:B:232:LYS:O	2.05	0.88
1:C:457:ARG:HH21	1:C:460:LEU:HD12	1.36	0.88
1:G:418:ARG:HD2	1:G:481:VAL:CB	2.04	0.88
1:C:349:SER:OG	2:O:102:LYS:CG	2.21	0.88
1:H:349:SER:OG	2:T:102:LYS:CG	2.21	0.88
1:K:349:SER:OG	2:W:102:LYS:CG	2.21	0.88
1:A:424:LYS:HE2	1:A:441:LEU:CD1	2.03	0.88
1:A:261:ILE:CG1	1:B:229:ASP:OD1	2.21	0.88
1:E:372:ILE:HG12	1:E:413:VAL:HG21	1.54	0.88
1:F:424:LYS:HB2	1:F:441:LEU:CD1	2.03	0.88
1:I:424:LYS:HB2	1:I:441:LEU:CD1	2.03	0.88
1:H:347:LYS:HZ1	2:T:104:GLY:HA2	1.09	0.88
1:F:354:ASP:N	1:F:383:THR:HG22	1.86	0.88
1:G:424:LYS:HB2	1:G:441:LEU:CD1	2.03	0.88
1:H:354:ASP:N	1:H:383:THR:HG22	1.87	0.88
1:J:354:ASP:N	1:J:383:THR:HG22	1.87	0.88
1:E:347:LYS:HZ2	2:Q:104:GLY:HA2	1.14	0.88
1:B:261:ILE:CG1	1:C:229:ASP:OD1	2.20	0.88
1:D:424:LYS:HE2	1:D:441:LEU:CD1	2.03	0.88
1:A:295:ASN:H	1:B:273:LEU:CG	1.76	0.88
1:A:343:PHE:CA	1:B:470:ASN:H	1.87	0.88
1:C:418:ARG:HD2	1:C:481:VAL:CB	2.04	0.88
1:H:343:PHE:CA	1:I:470:ASN:H	1.87	0.88
1:F:349:SER:OG	2:R:102:LYS:CG	2.21	0.88
1:A:229:ASP:OD1	1:L:261:ILE:CG1	2.20	0.88
1:D:457:ARG:HH21	1:D:460:LEU:HD12	1.36	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:418:ARG:HD2	1:E:481:VAL:CB	2.04	0.88
1:H:418:ARG:HD2	1:H:481:VAL:CB	2.04	0.88
1:K:424:LYS:HB2	1:K:441:LEU:CD1	2.03	0.88
1:J:349:SER:OG	2:V:102:LYS:CG	2.21	0.88
1:E:457:ARG:HH21	1:E:460:LEU:HD12	1.36	0.88
1:F:457:ARG:HH21	1:F:460:LEU:HD12	1.36	0.88
1:J:424:LYS:HB2	1:J:441:LEU:CD1	2.03	0.88
1:J:424:LYS:HE2	1:J:441:LEU:CD1	2.03	0.88
1:L:418:ARG:HD2	1:L:481:VAL:CB	2.04	0.88
1:K:343:PHE:CA	1:L:470:ASN:H	1.87	0.88
1:D:387:LYS:HB3	2:P:102:LYS:CD	2.05	0.87
1:G:424:LYS:HE2	1:G:441:LEU:CD1	2.03	0.87
1:H:457:ARG:HH21	1:H:460:LEU:HD12	1.36	0.87
1:J:343:PHE:CA	1:K:470:ASN:H	1.87	0.87
1:K:418:ARG:HD2	1:K:481:VAL:CB	2.04	0.87
1:L:347:LYS:HE3	2:X:104:GLY:N	1.90	0.87
1:I:418:ARG:HD2	1:I:481:VAL:CB	2.04	0.87
1:L:424:LYS:HE2	1:L:441:LEU:CD1	2.03	0.87
1:B:347:LYS:HE3	2:N:104:GLY:N	1.90	0.87
1:F:347:LYS:HE3	2:R:104:GLY:N	1.90	0.87
1:B:424:LYS:HE2	1:B:441:LEU:CD1	2.03	0.87
1:C:343:PHE:CA	1:D:470:ASN:H	1.87	0.87
1:F:343:PHE:CA	1:G:470:ASN:H	1.87	0.87
1:K:372:ILE:HG12	1:K:413:VAL:HG21	1.54	0.87
1:A:347:LYS:HE3	2:M:104:GLY:N	1.90	0.87
1:D:347:LYS:HE3	2:P:104:GLY:N	1.90	0.87
1:A:396:ASP:OD1	1:B:467:THR:HG21	1.67	0.87
1:C:354:ASP:N	1:C:383:THR:HG22	1.86	0.87
1:C:424:LYS:HB2	1:C:441:LEU:CD1	2.03	0.87
1:F:372:ILE:HG12	1:F:413:VAL:HG21	1.54	0.87
1:E:343:PHE:CA	1:F:470:ASN:H	1.87	0.87
1:G:387:LYS:HB3	2:S:102:LYS:CD	2.05	0.87
1:G:343:PHE:CA	1:H:470:ASN:H	1.87	0.87
1:E:349:SER:OG	2:Q:102:LYS:CG	2.21	0.87
1:K:424:LYS:HE2	1:K:441:LEU:CD1	2.03	0.87
1:L:349:SER:OG	2:X:102:LYS:CG	2.21	0.87
1:A:349:SER:OG	2:M:102:LYS:CG	2.21	0.87
1:I:373:VAL:CG2	1:I:412:ILE:HD11	2.05	0.87
1:J:372:ILE:HG12	1:J:413:VAL:HG21	1.54	0.87
1:F:387:LYS:HB3	2:R:102:LYS:CD	2.05	0.87
1:G:483:ILE:CG1	1:G:491:ILE:HB	2.05	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:424:LYS:HE2	1:I:441:LEU:CD1	2.03	0.87
1:A:387:LYS:HB3	2:M:102:LYS:CD	2.05	0.87
1:G:347:LYS:HE3	2:S:104:GLY:N	1.90	0.87
1:I:347:LYS:HE3	2:U:104:GLY:N	1.90	0.87
1:B:343:PHE:CA	1:C:470:ASN:H	1.87	0.87
1:D:349:SER:OG	2:P:102:LYS:CG	2.21	0.87
1:D:483:ILE:CG1	1:D:491:ILE:HB	2.05	0.87
1:D:343:PHE:CA	1:E:470:ASN:H	1.87	0.87
1:G:299:GLN:HE21	1:H:227:ASN:HD21	0.87	0.87
1:H:347:LYS:HE3	2:T:104:GLY:N	1.90	0.87
1:H:373:VAL:CG2	1:H:412:ILE:HD11	2.05	0.87
1:J:373:VAL:CG2	1:J:412:ILE:HD11	2.05	0.87
1:K:347:LYS:HE3	2:W:104:GLY:N	1.90	0.87
1:A:424:LYS:HB2	1:A:441:LEU:CD1	2.03	0.87
1:B:387:LYS:HB3	2:N:102:LYS:CD	2.04	0.87
1:D:261:ILE:CG1	1:E:229:ASP:OD1	2.21	0.87
1:F:483:ILE:CG1	1:F:491:ILE:HB	2.05	0.87
1:F:299:GLN:HE21	1:G:227:ASN:HD21	0.87	0.87
1:K:261:ILE:CG1	1:L:229:ASP:OD1	2.20	0.87
1:C:387:LYS:HB3	2:O:102:LYS:CD	2.05	0.86
1:C:261:ILE:CG1	1:D:229:ASP:OD1	2.20	0.86
1:E:387:LYS:HB3	2:Q:102:LYS:CD	2.04	0.86
1:F:418:ARG:HD2	1:F:481:VAL:CB	2.04	0.86
1:H:299:GLN:HE21	1:I:227:ASN:HD21	0.87	0.86
1:B:373:VAL:CG2	1:B:412:ILE:HD11	2.05	0.86
1:B:424:LYS:HB2	1:B:441:LEU:CD1	2.03	0.86
1:B:418:ARG:HD2	1:B:481:VAL:CB	2.04	0.86
1:C:450:TYR:CZ	1:C:514:GLN:HG3	2.10	0.86
1:D:424:LYS:HB2	1:D:441:LEU:CD1	2.03	0.86
1:E:483:ILE:CG1	1:E:491:ILE:HB	2.05	0.86
1:G:382:MET:CE	1:G:384:LEU:HG	2.05	0.86
1:I:372:ILE:HG12	1:I:413:VAL:HG21	1.54	0.86
1:I:382:MET:CE	1:I:384:LEU:HG	2.05	0.86
1:L:424:LYS:HB2	1:L:441:LEU:CD1	2.03	0.86
1:A:450:TYR:CZ	1:A:514:GLN:HG3	2.10	0.86
1:C:373:VAL:CG2	1:C:412:ILE:HD11	2.05	0.86
1:F:450:TYR:CZ	1:F:514:GLN:HG3	2.10	0.86
1:I:343:PHE:CA	1:J:470:ASN:H	1.87	0.86
1:K:373:VAL:CG2	1:K:412:ILE:HD11	2.05	0.86
1:A:373:VAL:CG2	1:A:412:ILE:HD11	2.05	0.86
1:A:470:ASN:H	1:L:343:PHE:CA	1.87	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:382:MET:CE	1:C:384:LEU:HG	2.05	0.86
1:D:418:ARG:HD2	1:D:481:VAL:CB	2.04	0.86
1:D:450:TYR:CZ	1:D:514:GLN:HG3	2.10	0.86
1:E:299:GLN:HE21	1:F:227:ASN:HD21	0.87	0.86
1:G:372:ILE:HG12	1:G:413:VAL:HG21	1.54	0.86
1:G:373:VAL:CG2	1:G:412:ILE:HD11	2.05	0.86
1:I:483:ILE:CG1	1:I:491:ILE:HB	2.05	0.86
1:H:372:ILE:HG12	1:H:413:VAL:HG21	1.54	0.86
1:K:450:TYR:CZ	1:K:514:GLN:HG3	2.10	0.86
1:A:382:MET:CE	1:A:384:LEU:HG	2.05	0.86
1:D:382:MET:CE	1:D:384:LEU:HG	2.05	0.86
1:I:299:GLN:HE21	1:J:227:ASN:HD21	0.87	0.86
1:J:382:MET:CE	1:J:384:LEU:HG	2.05	0.86
1:J:387:LYS:HB3	2:V:102:LYS:CD	2.05	0.86
1:E:450:TYR:CZ	1:E:514:GLN:HG3	2.10	0.86
1:J:261:ILE:CG1	1:K:229:ASP:OD1	2.21	0.86
1:A:273:LEU:CG	1:L:295:ASN:H	1.76	0.86
1:B:483:ILE:CG1	1:B:491:ILE:HB	2.05	0.86
1:H:483:ILE:CG1	1:H:491:ILE:HB	2.05	0.86
1:I:450:TYR:CZ	1:I:514:GLN:HG3	2.10	0.86
1:K:372:ILE:HG23	1:K:415:ILE:HD13	1.58	0.86
1:L:372:ILE:HG23	1:L:415:ILE:HD13	1.58	0.86
1:L:382:MET:CE	1:L:384:LEU:HG	2.05	0.86
1:C:347:LYS:HE3	2:O:104:GLY:N	1.90	0.86
1:A:404:LEU:HD12	1:A:417:PRO:CA	2.05	0.86
1:D:373:VAL:CG2	1:D:412:ILE:HD11	2.05	0.86
1:E:347:LYS:HE3	2:Q:104:GLY:N	1.90	0.86
1:E:457:ARG:NH1	1:E:482:LEU:HD23	1.91	0.86
1:F:457:ARG:NH1	1:F:482:LEU:HD23	1.91	0.86
1:H:387:LYS:HB3	2:T:102:LYS:CD	2.04	0.86
1:H:450:TYR:CZ	1:H:514:GLN:HG3	2.10	0.86
1:I:261:ILE:CG1	1:J:229:ASP:OD1	2.20	0.86
1:J:299:GLN:HE21	1:K:227:ASN:HD21	0.87	0.86
1:J:372:ILE:HG23	1:J:415:ILE:HD13	1.58	0.86
1:L:373:VAL:CG2	1:L:412:ILE:HD11	2.05	0.86
1:I:387:LYS:HB3	2:U:102:LYS:CD	2.05	0.86
1:F:373:VAL:CG2	1:F:412:ILE:HD11	2.05	0.86
1:K:382:MET:CE	1:K:384:LEU:HG	2.05	0.86
1:K:299:GLN:HE21	1:L:227:ASN:HD21	0.87	0.86
1:C:483:ILE:CG1	1:C:491:ILE:HB	2.05	0.85
1:L:387:LYS:HB3	2:X:102:LYS:CD	2.05	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:387:LYS:HB3	2:W:102:LYS:CD	2.04	0.85
1:A:372:ILE:HG23	1:A:415:ILE:HD13	1.58	0.85
1:A:257:HIS:CD2	1:B:232:LYS:HB2	2.12	0.85
1:D:457:ARG:NH1	1:D:482:LEU:HD23	1.91	0.85
1:E:382:MET:CE	1:E:384:LEU:HG	2.05	0.85
1:F:382:MET:CE	1:F:384:LEU:HG	2.05	0.85
1:J:396:ASP:OD1	1:K:467:THR:CB	2.25	0.85
1:J:450:TYR:CZ	1:J:514:GLN:HG3	2.10	0.85
1:K:396:ASP:OD1	1:L:467:THR:CB	2.25	0.85
1:K:483:ILE:CG1	1:K:491:ILE:HB	2.05	0.85
1:J:347:LYS:HE3	2:V:104:GLY:N	1.90	0.85
1:B:450:TYR:CZ	1:B:514:GLN:HG3	2.10	0.85
1:C:257:HIS:CD2	1:D:232:LYS:HB2	2.12	0.85
1:D:299:GLN:HE21	1:E:227:ASN:HD21	0.87	0.85
1:I:396:ASP:OD1	1:J:467:THR:CB	2.25	0.85
1:A:467:THR:CB	1:L:396:ASP:OD1	2.25	0.85
1:L:404:LEU:HD12	1:L:417:PRO:CA	2.05	0.85
1:A:483:ILE:CG1	1:A:491:ILE:HB	2.05	0.85
1:G:457:ARG:NH1	1:G:482:LEU:HD23	1.91	0.85
1:H:372:ILE:HG23	1:H:415:ILE:HD13	1.58	0.85
1:H:382:MET:CE	1:H:384:LEU:HG	2.05	0.85
1:B:382:MET:CE	1:B:384:LEU:HG	2.05	0.85
1:A:396:ASP:OD1	1:B:467:THR:CB	2.25	0.85
1:E:373:VAL:CG2	1:E:412:ILE:HD11	2.05	0.85
1:H:396:ASP:OD1	1:I:467:THR:CB	2.25	0.85
1:H:457:ARG:NH1	1:H:482:LEU:HD23	1.91	0.85
1:H:261:ILE:CG1	1:I:229:ASP:OD1	2.20	0.85
1:I:372:ILE:HG23	1:I:415:ILE:HD13	1.58	0.85
1:L:450:TYR:CZ	1:L:514:GLN:HG3	2.10	0.85
2:N:130:TYR:HB2	2:N:146:LEU:HB2	1.59	0.85
1:B:265:LYS:HE2	1:C:245:LEU:CB	1.64	0.85
1:C:355:VAL:C	1:C:381:LYS:HG3	1.97	0.85
1:C:457:ARG:NH1	1:C:482:LEU:HD23	1.91	0.85
1:J:257:HIS:CD2	1:K:232:LYS:HB2	2.12	0.85
1:K:257:HIS:CD2	1:L:232:LYS:HB2	2.12	0.85
1:A:295:ASN:N	1:B:273:LEU:CG	2.27	0.85
1:E:355:VAL:C	1:E:381:LYS:HG3	1.97	0.85
1:H:265:LYS:HE3	1:I:245:LEU:HD21	1.57	0.85
2:O:130:TYR:HB2	2:O:146:LEU:HB2	1.59	0.85
1:B:396:ASP:OD1	1:C:467:THR:CB	2.25	0.85
1:D:343:PHE:CD1	1:E:469:GLY:CA	2.60	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:396:ASP:OD1	1:H:467:THR:CB	2.25	0.85
1:J:483:ILE:CG1	1:J:491:ILE:HB	2.05	0.85
1:K:265:LYS:HE3	1:L:245:LEU:HD21	1.57	0.85
1:K:404:LEU:HD12	1:K:417:PRO:CA	2.05	0.85
1:A:232:LYS:HB2	1:L:257:HIS:CD2	2.12	0.85
2:W:130:TYR:HB2	2:W:146:LEU:HB2	1.59	0.85
1:B:257:HIS:CD2	1:C:232:LYS:HB2	2.12	0.85
1:D:257:HIS:CD2	1:E:232:LYS:HB2	2.12	0.85
1:H:257:HIS:CD2	1:I:232:LYS:HB2	2.12	0.85
1:I:265:LYS:HE3	1:J:245:LEU:HD21	1.57	0.85
1:J:265:LYS:HE3	1:K:245:LEU:HD21	1.57	0.85
1:L:483:ILE:CG1	1:L:491:ILE:HB	2.05	0.85
2:M:130:TYR:HB2	2:M:146:LEU:HB2	1.59	0.85
2:V:130:TYR:HB2	2:V:146:LEU:HB2	1.59	0.85
1:A:469:GLY:CA	1:L:343:PHE:CD1	2.60	0.84
1:B:343:PHE:CD1	1:C:469:GLY:CA	2.60	0.84
1:C:396:ASP:OD1	1:D:467:THR:CB	2.25	0.84
1:E:294:LEU:CD2	1:F:227:ASN:HB2	2.07	0.84
1:F:294:LEU:CD2	1:G:227:ASN:HB2	2.07	0.84
1:G:372:ILE:HG23	1:G:415:ILE:HD13	1.58	0.84
1:F:396:ASP:OD1	1:G:467:THR:CB	2.25	0.84
1:G:450:TYR:CZ	1:G:514:GLN:HG3	2.10	0.84
1:I:257:HIS:CD2	1:J:232:LYS:HB2	2.12	0.84
1:A:245:LEU:HD21	1:L:265:LYS:HE3	1.57	0.84
1:B:457:ARG:NH1	1:B:482:LEU:HD23	1.91	0.84
1:D:396:ASP:OD1	1:E:467:THR:CB	2.25	0.84
1:E:396:ASP:OD1	1:F:467:THR:CB	2.25	0.84
1:G:294:LEU:CD2	1:H:227:ASN:HB2	2.07	0.84
1:H:355:VAL:C	1:H:381:LYS:HG3	1.97	0.84
1:H:294:LEU:CD2	1:I:227:ASN:HB2	2.07	0.84
1:L:355:VAL:C	1:L:381:LYS:HG3	1.97	0.84
2:U:130:TYR:HB2	2:U:146:LEU:HB2	1.59	0.84
1:A:265:LYS:HE3	1:B:245:LEU:HD21	1.57	0.84
1:D:389:VAL:HG22	1:E:376:ASP:CB	2.08	0.84
1:I:294:LEU:CD2	1:J:227:ASN:HB2	2.07	0.84
1:J:404:LEU:HD12	1:J:417:PRO:CA	2.05	0.84
1:J:457:ARG:NH1	1:J:482:LEU:HD23	1.91	0.84
1:J:389:VAL:HG22	1:K:376:ASP:CB	2.08	0.84
1:A:355:VAL:C	1:A:381:LYS:HG3	1.97	0.84
1:B:372:ILE:HG23	1:B:415:ILE:HD13	1.58	0.84
1:F:343:PHE:CD1	1:G:469:GLY:CA	2.60	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:457:ARG:NH1	1:I:482:LEU:HD23	1.91	0.84
1:J:294:LEU:CD2	1:K:227:ASN:HB2	2.07	0.84
2:P:130:TYR:HB2	2:P:146:LEU:HB2	1.59	0.84
2:Q:130:TYR:HB2	2:Q:146:LEU:HB2	1.59	0.84
1:B:265:LYS:HE3	1:C:245:LEU:HD21	1.57	0.84
1:A:389:VAL:HG22	1:B:376:ASP:CB	2.08	0.84
1:E:457:ARG:HH12	1:E:482:LEU:HD23	1.43	0.84
1:F:257:HIS:CD2	1:G:232:LYS:HB2	2.12	0.84
1:G:261:ILE:CG1	1:H:229:ASP:OD1	2.21	0.84
1:K:355:VAL:C	1:K:381:LYS:HG3	1.97	0.84
2:X:130:TYR:HB2	2:X:146:LEU:HB2	1.59	0.84
1:C:299:GLN:HE21	1:D:227:ASN:HD21	0.87	0.84
1:E:257:HIS:CD2	1:F:232:LYS:HB2	2.12	0.84
1:F:355:VAL:C	1:F:381:LYS:HG3	1.97	0.84
1:G:389:VAL:HG22	1:H:376:ASP:CB	2.08	0.84
1:K:294:LEU:CD2	1:L:227:ASN:HB2	2.07	0.84
1:L:457:ARG:HH12	1:L:482:LEU:HD23	1.43	0.84
1:B:355:VAL:C	1:B:381:LYS:HG3	1.97	0.84
1:C:343:PHE:CD2	1:D:472:ASN:OD1	2.22	0.84
1:F:372:ILE:HG23	1:F:415:ILE:HD13	1.58	0.84
1:I:404:LEU:HD12	1:I:417:PRO:CA	2.05	0.84
1:I:389:VAL:HG22	1:J:376:ASP:CB	2.08	0.84
2:R:130:TYR:HB2	2:R:146:LEU:HB2	1.59	0.84
2:T:130:TYR:HB2	2:T:146:LEU:HB2	1.59	0.84
1:G:355:VAL:C	1:G:381:LYS:HG3	1.97	0.84
1:K:457:ARG:NH1	1:K:482:LEU:HD23	1.91	0.84
1:A:457:ARG:NH1	1:A:482:LEU:HD23	1.91	0.84
1:A:343:PHE:CD1	1:B:469:GLY:CA	2.60	0.84
1:C:457:ARG:HH12	1:C:482:LEU:HD23	1.43	0.84
1:E:261:ILE:CG1	1:F:229:ASP:OD1	2.20	0.84
1:F:261:ILE:CG1	1:G:229:ASP:OD1	2.20	0.84
1:F:396:ASP:OD1	1:G:467:THR:HG21	1.67	0.84
1:G:257:HIS:CD2	1:H:232:LYS:HB2	2.12	0.84
1:L:457:ARG:NH1	1:L:482:LEU:HD23	1.91	0.84
2:S:130:TYR:HB2	2:S:146:LEU:HB2	1.59	0.84
1:A:227:ASN:HB2	1:L:294:LEU:CD2	2.07	0.84
1:B:457:ARG:HH12	1:B:482:LEU:HD23	1.43	0.84
1:C:265:LYS:HE3	1:D:245:LEU:HD21	1.57	0.84
1:B:389:VAL:HG22	1:C:376:ASP:CB	2.08	0.84
1:C:343:PHE:CD1	1:D:469:GLY:CA	2.60	0.84
1:E:389:VAL:HG22	1:F:376:ASP:CB	2.08	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:404:LEU:HD12	1:H:417:PRO:CA	2.05	0.84
1:A:376:ASP:CB	1:L:389:VAL:HG22	2.08	0.84
1:D:355:VAL:C	1:D:381:LYS:HG3	1.97	0.83
1:H:343:PHE:HD2	1:I:472:ASN:OD1	1.61	0.83
1:G:343:PHE:CD1	1:H:469:GLY:CA	2.60	0.83
1:J:355:VAL:C	1:J:381:LYS:HG3	1.97	0.83
1:A:294:LEU:CD2	1:B:227:ASN:HB2	2.07	0.83
1:C:389:VAL:HG22	1:D:376:ASP:CB	2.08	0.83
1:E:343:PHE:CD1	1:F:469:GLY:CA	2.60	0.83
1:A:343:PHE:CD2	1:B:472:ASN:OD1	2.22	0.83
1:D:265:LYS:HE3	1:E:245:LEU:HD21	1.57	0.83
1:E:372:ILE:HG23	1:E:415:ILE:HD13	1.58	0.83
1:F:389:VAL:HG22	1:G:376:ASP:CB	2.08	0.83
1:J:343:PHE:CD1	1:K:469:GLY:CA	2.60	0.83
1:B:404:LEU:HD12	1:B:417:PRO:CA	2.05	0.83
1:B:294:LEU:CD2	1:C:227:ASN:HB2	2.07	0.83
1:C:372:ILE:HG23	1:C:415:ILE:HD13	1.58	0.83
1:G:404:LEU:HD12	1:G:417:PRO:CA	2.05	0.83
1:H:457:ARG:HH12	1:H:482:LEU:HD23	1.43	0.83
1:I:343:PHE:CD1	1:J:469:GLY:CA	2.60	0.83
1:K:457:ARG:HH12	1:K:482:LEU:HD23	1.43	0.83
1:K:389:VAL:HG22	1:L:376:ASP:CB	2.08	0.83
1:H:389:VAL:HG22	1:I:376:ASP:CB	2.08	0.83
1:A:472:ASN:OD1	1:L:343:PHE:CD2	2.22	0.83
1:E:404:LEU:HB3	1:E:416:ALA:O	1.79	0.83
1:G:364:LEU:HD12	1:G:391:TRP:HB2	1.61	0.83
1:J:372:ILE:HA	1:J:413:VAL:CG2	2.09	0.83
1:J:457:ARG:HH12	1:J:482:LEU:HD23	1.43	0.83
1:B:299:GLN:HE21	1:C:227:ASN:HD21	0.87	0.83
1:B:372:ILE:HA	1:B:413:VAL:CG2	2.09	0.83
1:C:294:LEU:CD2	1:D:227:ASN:HB2	2.07	0.83
1:D:372:ILE:HG23	1:D:415:ILE:HD13	1.58	0.83
1:E:265:LYS:HE3	1:F:245:LEU:HD21	1.57	0.83
1:H:364:LEU:HD12	1:H:391:TRP:HB2	1.61	0.83
1:G:343:PHE:HD2	1:H:472:ASN:OD1	1.62	0.83
1:I:355:VAL:C	1:I:381:LYS:HG3	1.97	0.83
1:B:404:LEU:HB3	1:B:416:ALA:O	1.79	0.83
1:C:372:ILE:HA	1:C:413:VAL:CG2	2.09	0.83
1:G:295:ASN:N	1:H:273:LEU:CG	2.27	0.83
1:I:372:ILE:HA	1:I:413:VAL:CG2	2.09	0.83
1:A:273:LEU:CG	1:L:295:ASN:N	2.27	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:343:PHE:CD1	1:L:469:GLY:CA	2.60	0.83
1:C:308:TRP:CE3	1:C:324:VAL:HG13	2.14	0.83
1:C:404:LEU:HD12	1:C:417:PRO:CA	2.05	0.83
1:F:308:TRP:CE3	1:F:324:VAL:HG13	2.14	0.83
1:K:372:ILE:HA	1:K:413:VAL:CG2	2.09	0.83
1:L:308:TRP:CE3	1:L:324:VAL:HG13	2.14	0.83
1:D:404:LEU:HB3	1:D:416:ALA:O	1.79	0.83
1:F:457:ARG:HH12	1:F:482:LEU:HD23	1.43	0.83
1:H:295:ASN:N	1:I:273:LEU:CG	2.26	0.83
1:J:364:LEU:HD12	1:J:391:TRP:HB2	1.61	0.83
1:D:372:ILE:HA	1:D:413:VAL:CG2	2.09	0.82
1:F:404:LEU:HD12	1:F:417:PRO:CA	2.05	0.82
1:H:372:ILE:HA	1:H:413:VAL:CG2	2.09	0.82
1:H:343:PHE:CD1	1:I:469:GLY:CA	2.60	0.82
1:J:404:LEU:HB3	1:J:416:ALA:O	1.79	0.82
1:A:308:TRP:CE3	1:A:324:VAL:HG13	2.14	0.82
1:A:372:ILE:HA	1:A:413:VAL:CG2	2.09	0.82
1:A:404:LEU:HB3	1:A:416:ALA:O	1.79	0.82
1:C:404:LEU:HB3	1:C:416:ALA:O	1.79	0.82
1:D:294:LEU:CD2	1:E:227:ASN:HB2	2.07	0.82
1:F:364:LEU:HD12	1:F:391:TRP:HB2	1.61	0.82
1:F:404:LEU:HB3	1:F:416:ALA:O	1.79	0.82
1:A:360:ILE:O	1:A:364:LEU:HD23	1.79	0.82
1:I:364:LEU:HD12	1:I:391:TRP:HB2	1.61	0.82
1:A:227:ASN:HD21	1:L:299:GLN:HE21	0.87	0.82
1:C:360:ILE:O	1:C:364:LEU:HD23	1.79	0.82
1:H:483:ILE:HD11	1:H:491:ILE:HD12	1.61	0.82
1:I:308:TRP:CE3	1:I:324:VAL:HG13	2.14	0.82
1:I:404:LEU:HB3	1:I:416:ALA:O	1.79	0.82
1:K:364:LEU:HD12	1:K:391:TRP:HB2	1.61	0.82
1:A:299:GLN:HE21	1:B:227:ASN:HD21	0.87	0.82
1:C:424:LYS:HG2	1:C:428:PHE:CZ	2.15	0.82
1:D:308:TRP:CE3	1:D:324:VAL:HG13	2.14	0.82
1:C:396:ASP:CG	1:D:467:THR:CB	2.48	0.82
1:G:483:ILE:HD11	1:G:491:ILE:HD12	1.61	0.82
1:J:308:TRP:CE3	1:J:324:VAL:HG13	2.14	0.82
1:L:353:GLN:HG3	2:X:98:VAL:O	1.80	0.82
1:B:308:TRP:CE3	1:B:324:VAL:HG13	2.14	0.82
1:E:308:TRP:CE3	1:E:324:VAL:HG13	2.14	0.82
1:J:360:ILE:O	1:J:364:LEU:HD23	1.79	0.82
1:K:404:LEU:HB3	1:K:416:ALA:O	1.79	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:353:GLN:HG3	2:M:98:VAL:O	1.80	0.82
1:B:347:LYS:HE3	2:N:104:GLY:H	1.45	0.82
1:B:343:PHE:CD2	1:C:472:ASN:OD1	2.22	0.82
1:D:343:PHE:CD2	1:E:472:ASN:OD1	2.22	0.82
1:D:457:ARG:HH12	1:D:482:LEU:HD23	1.43	0.82
1:F:347:LYS:HE3	2:R:104:GLY:H	1.45	0.82
1:F:295:ASN:N	1:G:273:LEU:CG	2.27	0.82
1:G:372:ILE:HA	1:G:413:VAL:CG2	2.09	0.82
1:H:308:TRP:CE3	1:H:324:VAL:HG13	2.14	0.82
1:I:352:PHE:CD1	1:I:360:ILE:HG22	2.15	0.82
1:I:360:ILE:O	1:I:364:LEU:HD23	1.79	0.82
1:J:352:PHE:CD1	1:J:360:ILE:HG22	2.15	0.82
1:I:353:GLN:HG3	2:U:98:VAL:O	1.80	0.82
1:A:394:ALA:O	1:A:398:VAL:HG23	1.80	0.82
1:A:396:ASP:CG	1:B:467:THR:CB	2.48	0.82
1:B:353:GLN:HG3	2:N:98:VAL:O	1.80	0.82
1:D:347:LYS:HE3	2:P:104:GLY:H	1.45	0.82
1:E:372:ILE:HA	1:E:413:VAL:CG2	2.09	0.82
1:F:265:LYS:HE3	1:G:245:LEU:HD21	1.57	0.82
1:F:360:ILE:O	1:F:364:LEU:HD23	1.79	0.82
1:F:483:ILE:HD11	1:F:491:ILE:HD12	1.61	0.82
1:G:308:TRP:CE3	1:G:324:VAL:HG13	2.14	0.82
1:H:404:LEU:HB3	1:H:416:ALA:O	1.79	0.82
1:K:424:LYS:HG2	1:K:428:PHE:CZ	2.15	0.82
1:L:424:LYS:HG2	1:L:428:PHE:CZ	2.15	0.82
1:A:447:GLN:CG	1:B:508:GLU:CD	2.47	0.82
1:I:483:ILE:HD11	1:I:491:ILE:HD12	1.61	0.82
1:I:343:PHE:HD2	1:J:472:ASN:OD1	1.62	0.82
1:A:424:LYS:HG2	1:A:428:PHE:CZ	2.15	0.82
1:E:396:ASP:CG	1:F:467:THR:CB	2.48	0.82
1:F:352:PHE:CD1	1:F:360:ILE:HG22	2.15	0.82
1:G:353:GLN:HG3	2:S:98:VAL:O	1.80	0.82
1:H:347:LYS:HE3	2:T:104:GLY:H	1.45	0.82
1:H:424:LYS:HG2	1:H:428:PHE:CZ	2.15	0.82
1:J:353:GLN:HG3	2:V:98:VAL:O	1.80	0.82
1:J:424:LYS:HG2	1:J:428:PHE:CZ	2.15	0.82
1:L:372:ILE:HA	1:L:413:VAL:CG2	2.09	0.82
1:A:265:LYS:HE2	1:B:245:LEU:CB	1.64	0.81
1:D:404:LEU:HD12	1:D:417:PRO:CA	2.05	0.81
1:E:352:PHE:CD1	1:E:360:ILE:HG22	2.15	0.81
1:E:424:LYS:HG2	1:E:428:PHE:CZ	2.15	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:353:GLN:HG3	2:T:98:VAL:O	1.80	0.81
1:H:360:ILE:O	1:H:364:LEU:HD23	1.79	0.81
1:L:394:ALA:O	1:L:398:VAL:HG23	1.80	0.81
1:K:343:PHE:CD2	1:L:472:ASN:OD1	2.22	0.81
1:A:457:ARG:HH12	1:A:482:LEU:HD23	1.43	0.81
1:A:483:ILE:HD11	1:A:491:ILE:HD12	1.61	0.81
1:B:360:ILE:O	1:B:364:LEU:HD23	1.79	0.81
1:B:394:ALA:O	1:B:398:VAL:HG23	1.80	0.81
1:D:360:ILE:O	1:D:364:LEU:HD23	1.79	0.81
1:E:364:LEU:HD12	1:E:391:TRP:HB2	1.61	0.81
1:G:424:LYS:HG2	1:G:428:PHE:CZ	2.15	0.81
1:H:396:ASP:CG	1:I:467:THR:CB	2.48	0.81
1:H:394:ALA:O	1:H:398:VAL:HG23	1.80	0.81
1:I:396:ASP:CG	1:J:467:THR:CB	2.48	0.81
1:K:352:PHE:CD1	1:K:360:ILE:HG22	2.15	0.81
1:L:364:LEU:HD12	1:L:391:TRP:HB2	1.61	0.81
1:A:467:THR:CB	1:L:396:ASP:CG	2.48	0.81
1:L:483:ILE:HD11	1:L:491:ILE:HD12	1.61	0.81
1:C:352:PHE:CD1	1:C:360:ILE:HG22	2.15	0.81
1:D:396:ASP:CG	1:E:467:THR:CB	2.48	0.81
1:E:404:LEU:HD12	1:E:417:PRO:CA	2.05	0.81
1:F:372:ILE:HA	1:F:413:VAL:CG2	2.09	0.81
1:F:424:LYS:HG2	1:F:428:PHE:CZ	2.15	0.81
1:G:265:LYS:HE3	1:H:245:LEU:HD21	1.57	0.81
1:G:360:ILE:O	1:G:364:LEU:HD23	1.79	0.81
1:F:406:MET:SD	1:G:468:THR:CG2	2.68	0.81
1:K:308:TRP:CE3	1:K:324:VAL:HG13	2.14	0.81
1:B:352:PHE:CD1	1:B:360:ILE:HG22	2.15	0.81
1:D:352:PHE:CD1	1:D:360:ILE:HG22	2.15	0.81
1:G:404:LEU:HB3	1:G:416:ALA:O	1.79	0.81
1:G:406:MET:SD	1:H:468:THR:CG2	2.68	0.81
1:J:347:LYS:HE3	2:V:104:GLY:H	1.45	0.81
1:J:483:ILE:HD11	1:J:491:ILE:HD12	1.61	0.81
1:L:347:LYS:HE3	2:X:104:GLY:H	1.45	0.81
1:B:396:ASP:CG	1:C:467:THR:CB	2.48	0.81
1:D:343:PHE:HD2	1:E:472:ASN:OD1	1.62	0.81
1:G:347:LYS:HE3	2:S:104:GLY:H	1.45	0.81
1:H:352:PHE:CD1	1:H:360:ILE:HG22	2.15	0.81
1:J:394:ALA:O	1:J:398:VAL:HG23	1.80	0.81
1:C:353:GLN:HG3	2:O:98:VAL:O	1.80	0.81
1:E:353:GLN:HG3	2:Q:98:VAL:O	1.80	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:343:PHE:N	1:E:470:ASN:HB2	1.96	0.81
1:F:396:ASP:CG	1:G:467:THR:CB	2.48	0.81
1:F:394:ALA:O	1:F:398:VAL:HG23	1.80	0.81
1:G:343:PHE:CG	1:H:469:GLY:CA	2.64	0.81
1:H:343:PHE:CG	1:I:469:GLY:CA	2.64	0.81
1:K:294:LEU:HA	1:L:273:LEU:HD21	1.61	0.81
1:A:273:LEU:HD21	1:L:294:LEU:HA	1.61	0.81
1:A:352:PHE:CD1	1:A:360:ILE:HG22	2.15	0.81
1:G:352:PHE:CD1	1:G:360:ILE:HG22	2.15	0.81
1:G:394:ALA:O	1:G:398:VAL:HG23	1.80	0.81
1:G:396:ASP:CG	1:H:467:THR:CB	2.48	0.81
1:I:347:LYS:HE3	2:U:104:GLY:H	1.45	0.81
1:I:424:LYS:HG2	1:I:428:PHE:CZ	2.15	0.81
1:K:343:PHE:N	1:L:470:ASN:HB2	1.96	0.81
1:K:353:GLN:HG3	2:W:98:VAL:O	1.80	0.81
1:K:295:ASN:N	1:L:273:LEU:CG	2.26	0.81
1:L:360:ILE:O	1:L:364:LEU:HD23	1.79	0.81
1:K:396:ASP:CG	1:L:467:THR:CB	2.48	0.81
1:A:364:LEU:HD12	1:A:391:TRP:HB2	1.61	0.81
1:B:343:PHE:N	1:C:470:ASN:HB2	1.96	0.81
1:D:424:LYS:HG2	1:D:428:PHE:CZ	2.15	0.81
1:E:483:ILE:HD11	1:E:491:ILE:HD12	1.61	0.81
1:I:457:ARG:HH12	1:I:482:LEU:HD23	1.43	0.81
1:K:389:VAL:HG22	1:L:376:ASP:OD2	1.81	0.81
1:K:394:ALA:O	1:K:398:VAL:HG23	1.80	0.81
1:A:469:GLY:CA	1:L:343:PHE:CG	2.64	0.81
1:L:404:LEU:HB3	1:L:416:ALA:O	1.79	0.81
1:A:450:TYR:CD1	1:A:514:GLN:HA	2.16	0.81
1:B:424:LYS:HG2	1:B:428:PHE:CZ	2.15	0.81
1:E:360:ILE:O	1:E:364:LEU:HD23	1.79	0.81
1:E:394:ALA:O	1:E:398:VAL:HG23	1.80	0.81
1:F:343:PHE:N	1:G:470:ASN:HB2	1.96	0.81
1:G:389:VAL:HG22	1:H:376:ASP:OD2	1.81	0.81
1:G:457:ARG:HH12	1:G:482:LEU:HD23	1.43	0.81
1:F:343:PHE:HD2	1:G:472:ASN:OD1	1.62	0.81
1:G:294:LEU:HA	1:H:273:LEU:HD21	1.61	0.81
1:G:343:PHE:CD2	1:H:472:ASN:OD1	2.22	0.81
1:I:295:ASN:N	1:J:273:LEU:CG	2.27	0.81
1:I:394:ALA:O	1:I:398:VAL:HG23	1.80	0.81
1:J:343:PHE:CG	1:K:469:GLY:CA	2.64	0.81
1:I:343:PHE:N	1:J:470:ASN:HB2	1.96	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:347:LYS:HE3	2:O:104:GLY:H	1.45	0.81
1:B:487:THR:HG21	1:C:459:ILE:CG2	2.11	0.81
1:D:294:LEU:HA	1:E:273:LEU:HD21	1.61	0.81
1:E:487:THR:HG21	1:F:459:ILE:CG2	2.11	0.81
1:G:450:TYR:CD1	1:G:514:GLN:HA	2.16	0.81
1:J:450:TYR:CD1	1:J:514:GLN:HA	2.16	0.81
1:K:360:ILE:O	1:K:364:LEU:HD23	1.79	0.81
1:L:450:TYR:CD1	1:L:514:GLN:HA	2.16	0.81
1:C:483:ILE:HD11	1:C:491:ILE:HD12	1.61	0.81
1:E:450:TYR:CD1	1:E:514:GLN:HA	2.16	0.81
1:E:343:PHE:HD2	1:F:472:ASN:OD1	1.61	0.81
1:H:294:LEU:HA	1:I:273:LEU:HD21	1.61	0.81
1:J:389:VAL:HG22	1:K:376:ASP:OD2	1.81	0.81
1:J:396:ASP:CG	1:K:467:THR:CB	2.48	0.81
1:I:487:THR:HG21	1:J:459:ILE:CG2	2.12	0.81
1:K:343:PHE:HD2	1:L:472:ASN:OD1	1.61	0.81
1:L:352:PHE:CD1	1:L:360:ILE:HG22	2.15	0.81
1:A:508:GLU:CD	1:L:447:GLN:CG	2.47	0.81
1:D:353:GLN:HG3	2:P:98:VAL:O	1.80	0.81
1:A:343:PHE:N	1:B:470:ASN:HB2	1.96	0.80
1:C:294:LEU:HA	1:D:273:LEU:HD21	1.61	0.80
1:D:364:LEU:HD12	1:D:391:TRP:HB2	1.61	0.80
1:D:483:ILE:HD11	1:D:491:ILE:HD12	1.61	0.80
1:E:295:ASN:N	1:F:273:LEU:CG	2.26	0.80
1:E:343:PHE:CG	1:F:469:GLY:CA	2.64	0.80
1:D:389:VAL:HG22	1:E:376:ASP:OD2	1.81	0.80
1:F:294:LEU:HA	1:G:273:LEU:HD21	1.61	0.80
1:I:389:VAL:CG2	1:J:376:ASP:OD2	2.30	0.80
1:A:294:LEU:HA	1:B:273:LEU:HD21	1.61	0.80
1:A:389:VAL:HG22	1:B:376:ASP:OD2	1.81	0.80
1:B:364:LEU:HD12	1:B:391:TRP:HB2	1.61	0.80
1:C:394:ALA:O	1:C:398:VAL:HG23	1.80	0.80
1:D:406:MET:SD	1:E:468:THR:CG2	2.68	0.80
1:D:487:THR:HG21	1:E:459:ILE:CG2	2.11	0.80
1:G:389:VAL:CG2	1:H:376:ASP:OD2	2.30	0.80
1:H:389:VAL:HG22	1:I:376:ASP:OD2	1.81	0.80
1:H:487:THR:HG21	1:I:459:ILE:CG2	2.11	0.80
1:J:487:THR:HG21	1:K:459:ILE:CG2	2.11	0.80
1:K:343:PHE:CG	1:L:469:GLY:CA	2.64	0.80
1:B:389:VAL:HG22	1:C:376:ASP:OD2	1.81	0.80
1:E:389:VAL:HG22	1:F:376:ASP:OD2	1.81	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:294:LEU:HA	1:F:273:LEU:HD21	1.61	0.80
1:H:450:TYR:CD1	1:H:514:GLN:HA	2.16	0.80
1:J:294:LEU:HA	1:K:273:LEU:HD21	1.61	0.80
1:K:483:ILE:HD11	1:K:491:ILE:HD12	1.61	0.80
1:A:343:PHE:CG	1:B:469:GLY:CA	2.64	0.80
1:C:450:TYR:CD1	1:C:514:GLN:HA	2.16	0.80
1:K:389:VAL:CG2	1:L:376:ASP:OD2	2.29	0.80
1:B:450:TYR:CD1	1:B:514:GLN:HA	2.16	0.80
1:E:406:MET:SD	1:F:468:THR:CG2	2.68	0.80
1:K:450:TYR:CD1	1:K:514:GLN:HA	2.16	0.80
1:C:364:LEU:HD12	1:C:391:TRP:HB2	1.61	0.80
1:F:389:VAL:CG2	1:G:376:ASP:OD2	2.30	0.80
1:F:487:THR:HG21	1:G:459:ILE:CG2	2.12	0.80
1:F:343:PHE:CG	1:G:469:GLY:CA	2.64	0.80
1:G:343:PHE:N	1:H:470:ASN:HB2	1.96	0.80
1:I:450:TYR:CD1	1:I:514:GLN:HA	2.16	0.80
1:H:343:PHE:N	1:I:470:ASN:HB2	1.96	0.80
1:I:294:LEU:HA	1:J:273:LEU:HD21	1.61	0.80
1:A:470:ASN:HB2	1:L:343:PHE:N	1.96	0.80
1:B:343:PHE:CG	1:C:469:GLY:CA	2.64	0.80
1:B:483:ILE:HD11	1:B:491:ILE:HD12	1.61	0.80
1:B:294:LEU:HA	1:C:273:LEU:HD21	1.61	0.80
1:I:406:MET:SD	1:J:468:THR:CG2	2.68	0.80
1:A:459:ILE:CG2	1:L:487:THR:HG21	2.12	0.80
1:C:343:PHE:HD2	1:D:472:ASN:OD1	1.62	0.80
1:C:487:THR:HG21	1:D:459:ILE:CG2	2.12	0.80
1:E:389:VAL:CG2	1:F:376:ASP:OD2	2.29	0.80
1:F:353:GLN:HG3	2:R:98:VAL:O	1.80	0.80
1:A:472:ASN:OD1	1:L:343:PHE:HD2	1.62	0.80
1:C:343:PHE:N	1:D:470:ASN:HB2	1.96	0.80
1:D:343:PHE:CG	1:E:469:GLY:CA	2.64	0.80
1:E:343:PHE:N	1:F:470:ASN:H	1.79	0.80
1:E:347:LYS:HE3	2:Q:104:GLY:H	1.45	0.80
1:H:406:MET:SD	1:I:468:THR:CG2	2.68	0.80
1:J:343:PHE:N	1:K:470:ASN:HB2	1.96	0.80
1:K:487:THR:HG21	1:L:459:ILE:CG2	2.11	0.80
1:A:347:LYS:HE3	2:M:104:GLY:H	1.45	0.80
1:C:343:PHE:CG	1:D:469:GLY:CA	2.64	0.80
1:E:372:ILE:HA	1:E:413:VAL:HG23	1.64	0.80
1:D:343:PHE:N	1:E:470:ASN:H	1.80	0.80
1:F:389:VAL:HG22	1:G:376:ASP:OD2	1.81	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:382:MET:HE1	1:A:384:LEU:HG	1.63	0.79
1:F:343:PHE:N	1:G:470:ASN:H	1.79	0.79
1:J:382:MET:HE1	1:J:384:LEU:HG	1.62	0.79
1:A:376:ASP:OD2	1:L:389:VAL:CG2	2.30	0.79
1:B:389:VAL:CG2	1:C:376:ASP:OD2	2.29	0.79
1:C:343:PHE:N	1:D:470:ASN:H	1.79	0.79
1:C:406:MET:SD	1:D:468:THR:CG2	2.68	0.79
1:F:450:TYR:CD1	1:F:514:GLN:HA	2.16	0.79
1:E:343:PHE:N	1:F:470:ASN:HB2	1.96	0.79
1:K:347:LYS:HE3	2:W:104:GLY:H	1.45	0.79
1:D:394:ALA:O	1:D:398:VAL:HG23	1.80	0.79
1:D:450:TYR:CD1	1:D:514:GLN:HA	2.16	0.79
1:F:372:ILE:HA	1:F:413:VAL:HG23	1.65	0.79
1:H:389:VAL:CG2	1:I:376:ASP:OD2	2.29	0.79
1:I:343:PHE:CG	1:J:469:GLY:CA	2.64	0.79
1:J:389:VAL:CG2	1:K:376:ASP:OD2	2.30	0.79
1:D:372:ILE:HA	1:D:413:VAL:HG23	1.65	0.79
1:H:372:ILE:HA	1:H:413:VAL:HG23	1.64	0.79
1:G:487:THR:HG21	1:H:459:ILE:CG2	2.11	0.79
1:A:487:THR:HG21	1:B:459:ILE:CG2	2.11	0.79
1:B:343:PHE:HD2	1:C:472:ASN:OD1	1.61	0.79
1:D:447:GLN:CG	1:E:508:GLU:CD	2.47	0.79
1:E:343:PHE:CD2	1:F:472:ASN:OD1	2.22	0.79
1:H:456:PHE:HE1	1:H:509:LEU:HB2	1.48	0.79
1:G:343:PHE:N	1:H:470:ASN:H	1.80	0.79
1:K:343:PHE:N	1:L:470:ASN:H	1.79	0.79
1:B:343:PHE:N	1:C:470:ASN:H	1.79	0.79
1:G:372:ILE:HA	1:G:413:VAL:HG23	1.65	0.79
1:K:396:ASP:OD1	1:L:467:THR:HG21	1.67	0.79
1:L:382:MET:HE1	1:L:384:LEU:HG	1.63	0.79
1:L:456:PHE:HE1	1:L:509:LEU:HB2	1.48	0.79
1:A:376:ASP:OD2	1:L:389:VAL:HG22	1.81	0.79
1:K:456:PHE:HE1	1:K:509:LEU:HB2	1.48	0.79
1:J:343:PHE:HD2	1:K:472:ASN:OD1	1.62	0.79
1:K:447:GLN:CG	1:L:508:GLU:CD	2.47	0.79
1:A:470:ASN:H	1:L:343:PHE:N	1.79	0.79
1:D:465:ALA:CB	1:D:475:ILE:HD11	2.13	0.79
1:F:351:ASP:CG	2:R:100:ILE:H	1.86	0.79
1:H:343:PHE:N	1:I:470:ASN:H	1.79	0.79
1:I:389:VAL:HG22	1:J:376:ASP:OD2	1.81	0.79
1:J:343:PHE:CD2	1:K:472:ASN:OD1	2.22	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:483:ILE:O	1:B:490:LEU:HD12	1.83	0.79
1:C:389:VAL:HG22	1:D:376:ASP:OD2	1.81	0.79
1:F:343:PHE:CD2	1:G:472:ASN:OD1	2.22	0.79
1:I:372:ILE:HA	1:I:413:VAL:HG23	1.65	0.79
1:J:343:PHE:N	1:K:470:ASN:H	1.80	0.79
1:A:408:GLN:HG2	1:A:413:VAL:HG12	1.65	0.79
1:B:408:GLN:HG2	1:B:413:VAL:HG12	1.65	0.79
1:D:389:VAL:CG2	1:E:376:ASP:OD2	2.30	0.79
1:D:456:PHE:HE1	1:D:509:LEU:HB2	1.48	0.79
1:J:406:MET:SD	1:K:468:THR:CG2	2.68	0.79
1:A:389:VAL:CG2	1:B:376:ASP:OD2	2.30	0.78
1:B:372:ILE:HA	1:B:413:VAL:HG23	1.64	0.78
1:E:456:PHE:HE1	1:E:509:LEU:HB2	1.48	0.78
1:J:295:ASN:N	1:K:273:LEU:CG	2.27	0.78
1:E:483:ILE:O	1:E:490:LEU:HD12	1.83	0.78
1:J:372:ILE:HA	1:J:413:VAL:HG23	1.65	0.78
1:K:382:MET:HE1	1:K:384:LEU:HG	1.63	0.78
1:L:351:ASP:CG	2:X:100:ILE:H	1.86	0.78
1:L:408:GLN:HG2	1:L:413:VAL:HG12	1.65	0.78
1:E:351:ASP:CG	2:Q:100:ILE:H	1.86	0.78
1:A:343:PHE:N	1:B:470:ASN:H	1.80	0.78
1:C:372:ILE:HA	1:C:413:VAL:HG23	1.65	0.78
1:D:483:ILE:O	1:D:490:LEU:HD12	1.83	0.78
1:G:265:LYS:HE2	1:H:245:LEU:HB2	1.65	0.78
1:I:343:PHE:N	1:J:470:ASN:H	1.79	0.78
1:I:456:PHE:HE1	1:I:509:LEU:HB2	1.48	0.78
1:K:351:ASP:CG	2:W:100:ILE:H	1.86	0.78
1:G:351:ASP:CG	2:S:100:ILE:H	1.86	0.78
1:J:351:ASP:CG	2:V:100:ILE:H	1.86	0.78
1:C:351:ASP:CG	2:O:100:ILE:H	1.86	0.78
1:C:408:GLN:HG2	1:C:413:VAL:HG12	1.65	0.78
1:C:456:PHE:HE1	1:C:509:LEU:HB2	1.48	0.78
1:D:351:ASP:CG	2:P:100:ILE:H	1.86	0.78
1:I:351:ASP:CG	2:U:100:ILE:H	1.86	0.78
1:A:372:ILE:HA	1:A:413:VAL:HG23	1.65	0.78
1:D:295:ASN:N	1:E:273:LEU:CG	2.27	0.78
1:J:408:GLN:HG2	1:J:413:VAL:HG12	1.65	0.78
1:G:456:PHE:HE1	1:G:509:LEU:HB2	1.48	0.78
1:H:483:ILE:O	1:H:490:LEU:HD12	1.83	0.78
1:K:372:ILE:HA	1:K:413:VAL:HG23	1.64	0.78
1:K:483:ILE:O	1:K:490:LEU:HD12	1.83	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:351:ASP:CG	2:M:100:ILE:H	1.86	0.78
1:K:408:GLN:HG2	1:K:413:VAL:HG12	1.65	0.78
1:A:467:THR:HB	1:L:396:ASP:CG	2.04	0.78
1:B:465:ALA:CB	1:B:475:ILE:HD11	2.13	0.78
1:D:396:ASP:CG	1:E:467:THR:HB	2.04	0.78
1:E:265:LYS:HE2	1:F:245:LEU:HB2	1.65	0.78
1:J:483:ILE:O	1:J:490:LEU:HD12	1.83	0.78
1:B:396:ASP:CG	1:C:467:THR:HB	2.05	0.78
1:H:351:ASP:CG	2:T:100:ILE:H	1.86	0.78
1:J:456:PHE:HE1	1:J:509:LEU:HB2	1.48	0.78
1:L:372:ILE:HA	1:L:413:VAL:HG23	1.65	0.78
1:B:351:ASP:CG	2:N:100:ILE:H	1.86	0.78
1:A:343:PHE:HD2	1:B:472:ASN:OD1	1.62	0.78
1:G:483:ILE:O	1:G:490:LEU:HD12	1.83	0.78
1:I:408:GLN:HG2	1:I:413:VAL:CG1	2.14	0.78
1:I:408:GLN:HG2	1:I:413:VAL:HG12	1.65	0.78
1:L:408:GLN:HG2	1:L:413:VAL:CG1	2.14	0.78
1:A:456:PHE:HE1	1:A:509:LEU:HB2	1.48	0.77
1:C:408:GLN:HG2	1:C:413:VAL:CG1	2.14	0.77
1:E:408:GLN:HG2	1:E:413:VAL:CG1	2.14	0.77
1:C:389:VAL:CG2	1:D:376:ASP:OD2	2.30	0.77
1:D:408:GLN:HG2	1:D:413:VAL:HG12	1.65	0.77
1:F:408:GLN:HG2	1:F:413:VAL:CG1	2.14	0.77
1:K:372:ILE:CG2	1:K:415:ILE:HD13	2.15	0.77
1:A:408:GLN:HG2	1:A:413:VAL:CG1	2.14	0.77
1:F:456:PHE:HE1	1:F:509:LEU:HB2	1.48	0.77
1:I:265:LYS:HE2	1:J:245:LEU:HB2	1.65	0.77
1:I:343:PHE:CD2	1:J:472:ASN:OD1	2.22	0.77
1:I:396:ASP:CG	1:J:467:THR:HB	2.04	0.77
1:J:396:ASP:CG	1:K:467:THR:HB	2.04	0.77
1:A:483:ILE:O	1:A:490:LEU:HD12	1.83	0.77
1:E:450:TYR:CE2	1:E:514:GLN:HG3	2.19	0.77
1:F:396:ASP:CG	1:G:467:THR:HB	2.04	0.77
1:F:450:TYR:CE2	1:F:514:GLN:HG3	2.20	0.77
1:L:483:ILE:O	1:L:490:LEU:HD12	1.83	0.77
1:G:307:ASN:ND2	2:S:162:LEU:HD12	2.00	0.77
1:A:406:MET:SD	1:B:468:THR:CG2	2.68	0.77
1:B:456:PHE:HE1	1:B:509:LEU:HB2	1.48	0.77
1:C:450:TYR:CE2	1:C:514:GLN:HG3	2.20	0.77
1:B:406:MET:SD	1:C:468:THR:CG2	2.68	0.77
1:C:483:ILE:O	1:C:490:LEU:HD12	1.83	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:307:ASN:ND2	2:P:162:LEU:HD12	2.00	0.77
1:D:408:GLN:HG2	1:D:413:VAL:CG1	2.14	0.77
1:G:450:TYR:CE2	1:G:514:GLN:HG3	2.20	0.77
1:H:408:GLN:HG2	1:H:413:VAL:HG12	1.65	0.77
1:H:343:PHE:CD2	1:I:472:ASN:OD1	2.22	0.77
1:F:307:ASN:ND2	2:R:162:LEU:HD12	2.00	0.77
1:G:396:ASP:CG	1:H:467:THR:HB	2.04	0.77
1:G:465:ALA:CB	1:G:475:ILE:HD11	2.13	0.77
1:H:307:ASN:ND2	2:T:162:LEU:HD12	2.00	0.77
1:H:408:GLN:HG2	1:H:413:VAL:CG1	2.14	0.77
1:H:448:LEU:HD11	1:H:506:ILE:HG23	1.67	0.77
1:I:448:LEU:HD11	1:I:506:ILE:HG23	1.67	0.77
1:J:372:ILE:CG2	1:J:415:ILE:HD13	2.15	0.77
1:E:307:ASN:ND2	2:Q:162:LEU:HD12	2.00	0.77
1:H:372:ILE:CG2	1:H:415:ILE:HD13	2.15	0.77
1:H:450:TYR:CE2	1:H:514:GLN:HG3	2.19	0.77
1:J:408:GLN:HG2	1:J:413:VAL:CG1	2.14	0.77
1:K:396:ASP:CG	1:L:467:THR:HB	2.05	0.77
1:K:408:GLN:HG2	1:K:413:VAL:CG1	2.14	0.77
1:L:307:ASN:ND2	2:X:162:LEU:HD12	2.00	0.77
1:A:468:THR:CG2	1:L:406:MET:SD	2.68	0.77
1:A:450:TYR:CE2	1:A:514:GLN:HG3	2.20	0.77
1:C:372:ILE:CG2	1:C:415:ILE:HD13	2.15	0.77
1:C:396:ASP:CG	1:D:467:THR:HB	2.04	0.77
1:F:372:ILE:CG2	1:F:415:ILE:HD13	2.15	0.77
1:I:465:ALA:CB	1:I:475:ILE:HD11	2.13	0.77
1:B:450:TYR:CE2	1:B:514:GLN:HG3	2.19	0.77
1:G:408:GLN:HG2	1:G:413:VAL:HG12	1.65	0.77
1:I:382:MET:HE1	1:I:384:LEU:HG	1.65	0.77
1:I:483:ILE:O	1:I:490:LEU:HD12	1.83	0.77
1:K:307:ASN:ND2	2:W:162:LEU:HD12	2.00	0.77
1:A:307:ASN:ND2	2:M:162:LEU:HD12	2.00	0.77
1:B:372:ILE:CG2	1:B:415:ILE:HD13	2.15	0.77
1:D:450:TYR:CE2	1:D:514:GLN:HG3	2.20	0.77
1:C:447:GLN:CG	1:D:508:GLU:CD	2.47	0.77
1:F:483:ILE:O	1:F:490:LEU:HD12	1.83	0.77
1:K:448:LEU:HD11	1:K:506:ILE:HG23	1.67	0.77
1:L:372:ILE:CG2	1:L:415:ILE:HD13	2.15	0.77
1:L:450:TYR:CE2	1:L:514:GLN:HG3	2.20	0.77
1:B:408:GLN:HG2	1:B:413:VAL:CG1	2.14	0.76
1:E:408:GLN:HG2	1:E:413:VAL:HG12	1.65	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:408:GLN:HG2	1:G:413:VAL:CG1	2.14	0.76
1:J:265:LYS:HE2	1:K:245:LEU:HB2	1.65	0.76
1:J:448:LEU:HD11	1:J:506:ILE:HG23	1.67	0.76
1:K:450:TYR:CE2	1:K:514:GLN:HG3	2.19	0.76
1:K:406:MET:SD	1:L:468:THR:CG2	2.68	0.76
1:A:396:ASP:CG	1:B:467:THR:HB	2.04	0.76
1:G:382:MET:HE1	1:G:384:LEU:HG	1.66	0.76
1:G:448:LEU:HD11	1:G:506:ILE:HG23	1.67	0.76
1:I:450:TYR:CE2	1:I:514:GLN:HG3	2.20	0.76
1:L:448:LEU:HD11	1:L:506:ILE:HG23	1.67	0.76
1:A:372:ILE:CG2	1:A:415:ILE:HD13	2.15	0.76
1:E:396:ASP:CG	1:F:467:THR:HB	2.05	0.76
1:G:372:ILE:CG2	1:G:415:ILE:HD13	2.15	0.76
1:J:450:TYR:CE2	1:J:514:GLN:HG3	2.20	0.76
2:R:161:LEU:HD22	2:R:162:LEU:N	2.01	0.76
1:C:307:ASN:ND2	2:O:162:LEU:HD12	2.00	0.76
1:E:492:VAL:CG1	1:E:499:ILE:HG13	2.16	0.76
1:F:408:GLN:HG2	1:F:413:VAL:HG12	1.65	0.76
1:L:465:ALA:CB	1:L:475:ILE:HD11	2.13	0.76
1:D:265:LYS:HE2	1:E:245:LEU:HB2	1.65	0.76
1:D:372:ILE:CG2	1:D:415:ILE:HD13	2.15	0.76
1:E:465:ALA:CB	1:E:475:ILE:HD11	2.13	0.76
1:I:372:ILE:CG2	1:I:415:ILE:HD13	2.15	0.76
1:J:294:LEU:HA	1:K:273:LEU:CD2	2.16	0.76
2:Q:161:LEU:HD22	2:Q:162:LEU:N	2.01	0.76
1:B:294:LEU:HA	1:C:273:LEU:CD2	2.16	0.76
1:C:295:ASN:N	1:D:273:LEU:CG	2.27	0.76
1:E:372:ILE:CG2	1:E:415:ILE:HD13	2.15	0.76
1:I:307:ASN:ND2	2:U:162:LEU:HD12	2.00	0.76
2:O:161:LEU:HD22	2:O:162:LEU:N	2.01	0.76
1:B:492:VAL:CG1	1:B:499:ILE:HG13	2.16	0.76
1:C:492:VAL:CG1	1:C:499:ILE:HG13	2.16	0.76
1:F:265:LYS:HE2	1:G:245:LEU:HB2	1.65	0.76
1:G:492:VAL:CG1	1:G:499:ILE:HG13	2.16	0.76
1:K:465:ALA:CB	1:K:475:ILE:HD11	2.13	0.76
1:K:447:GLN:HG3	1:L:508:GLU:CD	2.06	0.76
2:N:161:LEU:HD22	2:N:162:LEU:N	2.01	0.76
2:P:161:LEU:HD22	2:P:162:LEU:N	2.01	0.76
2:V:161:LEU:HD22	2:V:162:LEU:N	2.01	0.76
1:F:294:LEU:HA	1:G:273:LEU:CD2	2.16	0.76
1:H:294:LEU:HA	1:I:273:LEU:CD2	2.16	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:447:GLN:CG	1:K:508:GLU:CD	2.47	0.76
2:O:161:LEU:HD13	2:O:161:LEU:O	1.86	0.76
1:J:307:ASN:ND2	2:V:162:LEU:HD12	2.00	0.76
1:A:448:LEU:HD11	1:A:506:ILE:HG23	1.67	0.76
1:A:469:GLY:C	1:L:343:PHE:CB	2.42	0.76
1:B:447:GLN:HG3	1:C:508:GLU:CD	2.06	0.76
1:E:447:GLN:HG3	1:F:508:GLU:CD	2.06	0.76
1:H:396:ASP:CG	1:I:467:THR:HB	2.05	0.76
1:H:404:LEU:H	1:H:404:LEU:HD22	1.51	0.76
1:L:492:VAL:CG1	1:L:499:ILE:HG13	2.16	0.76
1:B:307:ASN:ND2	2:N:162:LEU:HD12	2.00	0.76
2:U:161:LEU:HD22	2:U:162:LEU:N	2.01	0.76
1:A:424:LYS:HD2	1:A:440:ALA:CA	2.16	0.76
1:F:448:LEU:HD11	1:F:506:ILE:HG23	1.67	0.76
1:I:294:LEU:HA	1:J:273:LEU:CD2	2.16	0.76
1:K:404:LEU:H	1:K:404:LEU:HD22	1.51	0.76
2:P:161:LEU:O	2:P:161:LEU:HD13	1.86	0.76
2:Q:161:LEU:O	2:Q:161:LEU:HD13	1.86	0.76
2:T:133:ILE:HD11	2:T:141:ILE:HG22	1.68	0.76
2:U:133:ILE:HD11	2:U:141:ILE:HG22	1.68	0.76
1:H:492:VAL:CG1	1:H:499:ILE:HG13	2.16	0.75
1:H:447:GLN:HG3	1:I:508:GLU:CD	2.06	0.75
1:J:404:LEU:HD22	1:J:404:LEU:H	1.51	0.75
2:S:161:LEU:HD22	2:S:162:LEU:N	2.01	0.75
1:C:265:LYS:HE2	1:D:245:LEU:HB2	1.65	0.75
1:C:382:MET:HE1	1:C:384:LEU:HG	1.68	0.75
1:L:404:LEU:H	1:L:404:LEU:HD22	1.51	0.75
2:N:161:LEU:HD13	2:N:161:LEU:O	1.86	0.75
1:A:294:LEU:HA	1:B:273:LEU:CD2	2.16	0.75
1:B:265:LYS:HE2	1:C:245:LEU:HB2	1.65	0.75
1:B:424:LYS:HD2	1:B:440:ALA:CA	2.16	0.75
1:E:448:LEU:HD11	1:E:506:ILE:HG23	1.67	0.75
1:F:382:MET:HE1	1:F:384:LEU:HG	1.68	0.75
1:G:404:LEU:H	1:G:404:LEU:HD22	1.51	0.75
1:J:465:ALA:CB	1:J:475:ILE:HD11	2.13	0.75
1:J:492:VAL:CG1	1:J:499:ILE:HG13	2.16	0.75
2:S:161:LEU:HD13	2:S:161:LEU:O	1.86	0.75
1:F:465:ALA:CB	1:F:475:ILE:HD11	2.13	0.75
1:K:294:LEU:HA	1:L:273:LEU:CD2	2.16	0.75
1:A:245:LEU:HB2	1:L:265:LYS:HE2	1.65	0.75
2:M:161:LEU:HD22	2:M:162:LEU:N	2.01	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O:133:ILE:HD11	2:O:141:ILE:HG22	1.68	0.75
2:P:133:ILE:HD11	2:P:141:ILE:HG22	1.69	0.75
2:Q:133:ILE:HD11	2:Q:141:ILE:HG22	1.68	0.75
2:S:133:ILE:HD11	2:S:141:ILE:HG22	1.69	0.75
2:T:161:LEU:O	2:T:161:LEU:HD13	1.86	0.75
2:V:133:ILE:HD11	2:V:141:ILE:HG22	1.69	0.75
2:V:161:LEU:HD13	2:V:161:LEU:O	1.86	0.75
2:W:161:LEU:HD22	2:W:162:LEU:N	2.01	0.75
1:A:404:LEU:HD22	1:A:404:LEU:H	1.51	0.75
1:A:492:VAL:CG1	1:A:499:ILE:HG13	2.16	0.75
1:B:448:LEU:HD11	1:B:506:ILE:HG23	1.67	0.75
1:D:492:VAL:CG1	1:D:499:ILE:HG13	2.16	0.75
1:F:492:VAL:CG1	1:F:499:ILE:HG13	2.16	0.75
1:G:294:LEU:HA	1:H:273:LEU:CD2	2.16	0.75
1:H:294:LEU:CA	1:I:273:LEU:CD2	2.64	0.75
1:I:404:LEU:HD22	1:I:404:LEU:H	1.51	0.75
2:U:161:LEU:HD13	2:U:161:LEU:O	1.86	0.75
2:W:133:ILE:HD11	2:W:141:ILE:HG22	1.68	0.75
2:X:133:ILE:HD11	2:X:141:ILE:HG22	1.68	0.75
1:B:404:LEU:HD22	1:B:404:LEU:H	1.51	0.75
1:D:404:LEU:HD22	1:D:404:LEU:H	1.51	0.75
2:M:133:ILE:HD11	2:M:141:ILE:HG22	1.69	0.75
2:N:133:ILE:HD11	2:N:141:ILE:HG22	1.68	0.75
2:R:133:ILE:HD11	2:R:141:ILE:HG22	1.68	0.75
2:R:161:LEU:O	2:R:161:LEU:HD13	1.86	0.75
1:A:273:LEU:CD2	1:L:294:LEU:HA	2.16	0.75
1:B:295:ASN:N	1:C:273:LEU:CG	2.26	0.75
1:D:294:LEU:HA	1:E:273:LEU:CD2	2.16	0.75
1:F:424:LYS:HD2	1:F:440:ALA:CA	2.16	0.75
1:G:424:LYS:HD2	1:G:440:ALA:CA	2.16	0.75
1:I:492:VAL:CG1	1:I:499:ILE:HG13	2.16	0.75
1:B:230:PHE:CD1	1:B:279:VAL:HG11	2.22	0.75
1:C:294:LEU:HA	1:D:273:LEU:CD2	2.16	0.75
1:C:404:LEU:H	1:C:404:LEU:HD22	1.51	0.75
1:C:448:LEU:HD11	1:C:506:ILE:HG23	1.67	0.75
1:D:448:LEU:HD11	1:D:506:ILE:HG23	1.67	0.75
1:F:294:LEU:CA	1:G:273:LEU:CD2	2.65	0.75
1:J:508:GLU:O	1:J:512:PRO:HD2	1.87	0.75
1:K:265:LYS:HE2	1:L:245:LEU:HB2	1.65	0.75
2:M:161:LEU:HD13	2:M:161:LEU:O	1.86	0.75
2:T:161:LEU:HD22	2:T:162:LEU:N	2.01	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:X:161:LEU:HD22	2:X:162:LEU:N	2.01	0.75
1:E:294:LEU:HA	1:F:273:LEU:CD2	2.16	0.74
1:I:294:LEU:CA	1:J:273:LEU:CD2	2.65	0.74
1:H:447:GLN:CG	1:I:508:GLU:CD	2.47	0.74
1:J:230:PHE:CD1	1:J:279:VAL:HG11	2.22	0.74
1:J:424:LYS:HD2	1:J:440:ALA:CA	2.16	0.74
1:A:447:GLN:HG3	1:B:508:GLU:CD	2.07	0.74
1:D:294:LEU:HD21	1:E:227:ASN:HB3	1.70	0.74
1:E:230:PHE:CD1	1:E:279:VAL:HG11	2.22	0.74
1:H:424:LYS:HD2	1:H:440:ALA:CA	2.16	0.74
1:I:230:PHE:CD1	1:I:279:VAL:HG11	2.22	0.74
1:I:447:GLN:CG	1:J:508:GLU:CD	2.47	0.74
1:J:447:GLN:HG3	1:K:508:GLU:CD	2.07	0.74
2:W:161:LEU:HD13	2:W:161:LEU:O	1.86	0.74
1:A:508:GLU:O	1:A:512:PRO:HD2	1.87	0.74
1:B:294:LEU:HD21	1:C:227:ASN:HB3	1.69	0.74
1:A:230:PHE:CD1	1:A:279:VAL:HG11	2.22	0.74
1:B:382:MET:HE2	1:B:384:LEU:HG	1.68	0.74
1:C:230:PHE:CD1	1:C:279:VAL:HG11	2.22	0.74
1:C:465:ALA:CB	1:C:475:ILE:HD11	2.13	0.74
1:E:424:LYS:HD2	1:E:440:ALA:CA	2.16	0.74
1:H:265:LYS:HE2	1:I:245:LEU:HB2	1.65	0.74
1:I:424:LYS:HD2	1:I:440:ALA:CA	2.16	0.74
1:K:456:PHE:CE1	1:K:509:LEU:HB2	2.23	0.74
2:X:161:LEU:HD13	2:X:161:LEU:O	1.86	0.74
1:B:378:VAL:O	1:B:417:PRO:HB3	1.88	0.74
1:C:424:LYS:HD2	1:C:440:ALA:CA	2.16	0.74
1:D:424:LYS:HD2	1:D:440:ALA:CA	2.16	0.74
1:E:508:GLU:O	1:E:512:PRO:HD2	1.87	0.74
1:E:294:LEU:CA	1:F:273:LEU:CD2	2.64	0.74
1:H:456:PHE:CE1	1:H:509:LEU:HB2	2.23	0.74
1:L:508:GLU:O	1:L:512:PRO:HD2	1.87	0.74
1:C:378:VAL:O	1:C:417:PRO:HB3	1.88	0.74
1:D:382:MET:HE1	1:D:384:LEU:HG	1.69	0.74
1:D:378:VAL:O	1:D:417:PRO:HB3	1.88	0.74
1:E:404:LEU:H	1:E:404:LEU:HD22	1.51	0.74
1:F:404:LEU:HD22	1:F:404:LEU:H	1.51	0.74
1:F:508:GLU:O	1:F:512:PRO:HD2	1.87	0.74
1:K:230:PHE:CD1	1:K:279:VAL:HG11	2.22	0.74
1:K:424:LYS:HD2	1:K:440:ALA:CA	2.16	0.74
1:A:378:VAL:O	1:A:417:PRO:HB3	1.88	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:230:PHE:CD1	1:D:279:VAL:HG11	2.22	0.74
1:E:378:VAL:O	1:E:417:PRO:HB3	1.88	0.74
1:D:447:GLN:HG3	1:E:508:GLU:CD	2.07	0.74
1:H:230:PHE:CD1	1:H:279:VAL:HG11	2.22	0.74
1:J:456:PHE:CE1	1:J:509:LEU:HB2	2.23	0.74
1:K:492:VAL:CG1	1:K:499:ILE:HG13	2.16	0.74
1:A:265:LYS:HE2	1:B:245:LEU:HB2	1.65	0.74
1:E:382:MET:HE2	1:E:384:LEU:HG	1.70	0.74
1:G:456:PHE:CE1	1:G:509:LEU:HB2	2.23	0.74
1:D:508:GLU:O	1:D:512:PRO:HD2	1.87	0.74
1:H:347:LYS:HZ1	2:T:104:GLY:CA	1.95	0.74
1:G:447:GLN:HG3	1:H:508:GLU:CD	2.07	0.74
2:W:126:LEU:HD22	2:W:131:GLY:HA3	1.70	0.74
2:X:126:LEU:HD22	2:X:131:GLY:HA3	1.70	0.74
1:F:378:VAL:O	1:F:417:PRO:HB3	1.88	0.74
1:G:230:PHE:CD1	1:G:279:VAL:HG11	2.22	0.74
1:K:508:GLU:O	1:K:512:PRO:HD2	1.87	0.74
1:L:378:VAL:O	1:L:417:PRO:HB3	1.88	0.74
1:A:294:LEU:HD21	1:B:227:ASN:HB3	1.70	0.73
1:G:294:LEU:CA	1:H:273:LEU:CD2	2.65	0.73
1:G:378:VAL:O	1:G:417:PRO:HB3	1.88	0.73
1:G:508:GLU:O	1:G:512:PRO:HD2	1.87	0.73
1:G:447:GLN:CG	1:H:508:GLU:CD	2.47	0.73
1:K:378:VAL:O	1:K:417:PRO:HB3	1.88	0.73
1:L:230:PHE:CD1	1:L:279:VAL:HG11	2.22	0.73
1:L:456:PHE:CE1	1:L:509:LEU:HB2	2.23	0.73
2:M:126:LEU:HD22	2:M:131:GLY:HA3	1.70	0.73
1:B:456:PHE:CE1	1:B:509:LEU:HB2	2.23	0.73
1:G:351:ASP:OD2	2:S:99:GLY:HA2	1.89	0.73
2:V:126:LEU:HD22	2:V:131:GLY:HA3	1.70	0.73
1:E:351:ASP:OD2	2:Q:99:GLY:HA3	1.89	0.73
1:F:230:PHE:CD1	1:F:279:VAL:HG11	2.22	0.73
1:F:351:ASP:OD2	2:R:99:GLY:HA3	1.89	0.73
1:H:378:VAL:O	1:H:417:PRO:HB3	1.88	0.73
1:H:508:GLU:O	1:H:512:PRO:HD2	1.87	0.73
1:I:456:PHE:CE1	1:I:509:LEU:HB2	2.23	0.73
1:I:508:GLU:O	1:I:512:PRO:HD2	1.87	0.73
1:J:378:VAL:O	1:J:417:PRO:HB3	1.88	0.73
1:K:294:LEU:HD21	1:L:227:ASN:HB3	1.69	0.73
1:G:351:ASP:OD2	2:S:99:GLY:HA3	1.89	0.73
1:C:508:GLU:O	1:C:512:PRO:HD2	1.87	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:294:LEU:HD21	1:F:227:ASN:HB3	1.69	0.73
1:F:294:LEU:HD21	1:G:227:ASN:HB3	1.70	0.73
1:I:378:VAL:O	1:I:417:PRO:HB3	1.88	0.73
1:A:456:PHE:CE1	1:A:509:LEU:HB2	2.23	0.73
1:E:456:PHE:CE1	1:E:509:LEU:HB2	2.23	0.73
1:H:351:ASP:OD2	2:T:99:GLY:HA3	1.89	0.73
1:D:351:ASP:OD2	2:P:99:GLY:HA3	1.89	0.73
1:D:404:LEU:CD1	1:D:417:PRO:HA	2.08	0.73
1:G:294:LEU:HD21	1:H:227:ASN:HB3	1.70	0.73
1:I:351:ASP:OD2	2:U:99:GLY:HA2	1.89	0.73
1:J:294:LEU:CA	1:K:273:LEU:CD2	2.65	0.73
1:A:227:ASN:HB3	1:L:294:LEU:HD21	1.70	0.73
2:N:126:LEU:HD22	2:N:131:GLY:HA3	1.70	0.73
1:E:351:ASP:OD2	2:Q:99:GLY:HA2	1.89	0.73
2:U:126:LEU:HD22	2:U:131:GLY:HA3	1.70	0.73
1:J:351:ASP:OD2	2:V:99:GLY:HA2	1.89	0.73
1:H:382:MET:HE1	1:H:384:LEU:HG	1.69	0.73
2:Q:126:LEU:HD22	2:Q:131:GLY:HA3	1.70	0.73
2:R:126:LEU:HD22	2:R:131:GLY:HA3	1.70	0.73
1:D:456:PHE:CE1	1:D:509:LEU:HB2	2.23	0.73
1:H:465:ALA:CB	1:H:475:ILE:HD11	2.13	0.73
1:L:347:LYS:CE	2:X:104:GLY:CA	2.67	0.73
1:L:351:ASP:OD2	2:X:99:GLY:HA2	1.89	0.73
1:A:465:ALA:CB	1:A:475:ILE:HD11	2.13	0.73
1:B:508:GLU:O	1:B:512:PRO:HD2	1.87	0.73
1:I:351:ASP:OD2	2:U:99:GLY:HA3	1.89	0.73
1:L:424:LYS:HD2	1:L:440:ALA:CA	2.16	0.73
1:C:351:ASP:OD2	2:O:99:GLY:HA3	1.89	0.72
1:C:456:PHE:CE1	1:C:509:LEU:HB2	2.23	0.72
1:E:382:MET:HE1	1:E:384:LEU:HG	1.71	0.72
1:H:382:MET:HE2	1:H:384:LEU:HG	1.71	0.72
1:I:294:LEU:HD21	1:J:227:ASN:HB3	1.70	0.72
1:L:350:LEU:HD12	1:L:352:PHE:HE2	1.55	0.72
2:T:126:LEU:HD22	2:T:131:GLY:HA3	1.70	0.72
1:F:404:LEU:HB2	1:F:415:ILE:CG2	2.20	0.72
1:F:456:PHE:CE1	1:F:509:LEU:HB2	2.23	0.72
1:E:347:LYS:CE	2:Q:104:GLY:CA	2.67	0.72
1:H:347:LYS:CE	2:T:104:GLY:CA	2.67	0.72
1:E:343:PHE:CB	1:F:469:GLY:C	2.42	0.72
1:E:404:LEU:HB2	1:E:415:ILE:CG2	2.20	0.72
1:G:350:LEU:HD12	1:G:352:PHE:HE2	1.55	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:404:LEU:HB2	1:G:415:ILE:CG2	2.20	0.72
2:P:126:LEU:HD22	2:P:131:GLY:HA3	1.70	0.72
1:B:404:LEU:CD1	1:B:417:PRO:HA	2.08	0.72
1:D:404:LEU:HB2	1:D:415:ILE:CG2	2.20	0.72
1:H:404:LEU:HB2	1:H:415:ILE:CG2	2.20	0.72
2:O:126:LEU:HD22	2:O:131:GLY:HA3	1.70	0.72
1:H:350:LEU:HD12	1:H:352:PHE:HE2	1.55	0.72
1:A:508:GLU:CD	1:L:447:GLN:HG3	2.07	0.72
1:C:351:ASP:OD2	2:O:99:GLY:HA2	1.89	0.72
2:S:126:LEU:HD22	2:S:131:GLY:HA3	1.70	0.72
1:K:351:ASP:OD2	2:W:99:GLY:HA2	1.89	0.72
1:C:404:LEU:HB2	1:C:415:ILE:CG2	2.20	0.72
1:D:294:LEU:CA	1:E:273:LEU:CD2	2.65	0.72
1:A:294:LEU:HD13	1:A:299:GLN:HB2	1.72	0.72
1:A:350:LEU:HD12	1:A:352:PHE:HE2	1.55	0.72
1:D:350:LEU:HD12	1:D:352:PHE:HE2	1.55	0.72
1:I:447:GLN:HG3	1:J:508:GLU:CD	2.07	0.72
1:F:351:ASP:OD2	2:R:99:GLY:HA2	1.89	0.72
1:I:404:LEU:HB2	1:I:415:ILE:CG2	2.20	0.72
1:L:294:LEU:HD13	1:L:299:GLN:HB2	1.72	0.72
1:C:347:LYS:CE	2:O:104:GLY:CA	2.67	0.72
1:D:351:ASP:OD2	2:P:99:GLY:HA2	1.89	0.72
1:A:351:ASP:OD2	2:M:99:GLY:HA2	1.89	0.72
1:C:294:LEU:HD21	1:D:227:ASN:HB3	1.70	0.72
1:H:351:ASP:OD2	2:T:99:GLY:HA2	1.89	0.72
1:J:351:ASP:OD2	2:V:99:GLY:HA3	1.89	0.72
1:B:294:LEU:HD13	1:B:299:GLN:HB2	1.72	0.72
1:C:350:LEU:HD12	1:C:352:PHE:HE2	1.55	0.72
1:I:347:LYS:CE	2:U:104:GLY:CA	2.67	0.72
1:J:294:LEU:HD13	1:J:299:GLN:HB2	1.72	0.72
1:K:294:LEU:HD13	1:K:299:GLN:HB2	1.72	0.72
1:K:350:LEU:HD12	1:K:352:PHE:HE2	1.55	0.72
1:K:265:LYS:CG	1:L:245:LEU:HD11	2.20	0.72
1:A:483:ILE:HD11	1:A:491:ILE:CD1	2.21	0.71
1:B:404:LEU:HB2	1:B:415:ILE:CG2	2.20	0.71
1:C:404:LEU:CD1	1:C:417:PRO:HA	2.08	0.71
1:I:347:LYS:HZ2	2:U:104:GLY:CA	1.96	0.71
1:L:483:ILE:HD11	1:L:491:ILE:CD1	2.21	0.71
1:A:347:LYS:CE	2:M:104:GLY:CA	2.67	0.71
1:B:351:ASP:OD2	2:N:99:GLY:HA3	1.89	0.71
1:B:483:ILE:HD11	1:B:491:ILE:CD1	2.21	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:294:LEU:HD13	1:C:299:GLN:HB2	1.72	0.71
1:C:483:ILE:HD11	1:C:491:ILE:CD1	2.21	0.71
1:F:265:LYS:CG	1:G:245:LEU:HD11	2.20	0.71
1:K:483:ILE:HD11	1:K:491:ILE:CD1	2.21	0.71
1:B:265:LYS:HG3	1:C:245:LEU:HD11	1.72	0.71
1:D:347:LYS:HZ1	2:P:104:GLY:CA	1.94	0.71
1:F:299:GLN:NE2	1:G:227:ASN:CG	2.44	0.71
1:F:350:LEU:HD12	1:F:352:PHE:HE2	1.55	0.71
1:G:299:GLN:NE2	1:H:227:ASN:CG	2.44	0.71
1:H:294:LEU:HD21	1:I:227:ASN:HB3	1.69	0.71
1:I:350:LEU:HD12	1:I:352:PHE:HE2	1.55	0.71
1:J:404:LEU:HB2	1:J:415:ILE:CG2	2.20	0.71
1:J:483:ILE:HD11	1:J:491:ILE:CD1	2.21	0.71
1:J:265:LYS:CG	1:K:245:LEU:HD11	2.20	0.71
1:L:404:LEU:HB2	1:L:415:ILE:CG2	2.20	0.71
1:A:265:LYS:CG	1:B:245:LEU:HD11	2.20	0.71
1:C:447:GLN:HG3	1:D:508:GLU:CD	2.07	0.71
1:C:265:LYS:HG3	1:D:245:LEU:HD11	1.72	0.71
1:E:299:GLN:NE2	1:F:227:ASN:CG	2.44	0.71
1:F:347:LYS:CE	2:R:104:GLY:CA	2.67	0.71
1:H:294:LEU:HD13	1:H:299:GLN:HB2	1.72	0.71
1:H:265:LYS:CG	1:I:245:LEU:HD11	2.20	0.71
1:I:294:LEU:HD13	1:I:299:GLN:HB2	1.72	0.71
1:K:448:LEU:HD11	1:K:506:ILE:CG2	2.21	0.71
1:B:351:ASP:OD2	2:N:99:GLY:HA2	1.89	0.71
1:D:382:MET:HE2	1:D:384:LEU:HG	1.71	0.71
1:D:483:ILE:HD11	1:D:491:ILE:CD1	2.21	0.71
1:E:265:LYS:CG	1:F:245:LEU:HD11	2.20	0.71
2:M:98:VAL:HG11	2:M:112:GLU:HB3	1.73	0.71
2:W:98:VAL:HG11	2:W:112:GLU:HB3	1.73	0.71
2:X:98:VAL:HG11	2:X:112:GLU:HB3	1.73	0.71
1:C:265:LYS:CG	1:D:245:LEU:HD11	2.20	0.71
1:D:294:LEU:HD13	1:D:299:GLN:HB2	1.72	0.71
1:G:294:LEU:HD13	1:G:299:GLN:HB2	1.72	0.71
1:E:294:LEU:HD13	1:E:299:GLN:HB2	1.72	0.71
1:F:447:GLN:HG3	1:G:508:GLU:CD	2.07	0.71
1:J:294:LEU:HD21	1:K:227:ASN:HB3	1.70	0.71
2:V:98:VAL:HG11	2:V:112:GLU:HB3	1.73	0.71
1:A:404:LEU:HB2	1:A:415:ILE:CG2	2.20	0.71
1:E:350:LEU:HD12	1:E:352:PHE:HE2	1.55	0.71
1:F:294:LEU:HD13	1:F:299:GLN:HB2	1.72	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:448:LEU:HD11	1:G:506:ILE:CG2	2.21	0.71
1:H:299:GLN:NE2	1:I:227:ASN:CG	2.44	0.71
1:I:409:GLN:HE21	1:I:412:ILE:HG23	1.56	0.71
1:I:483:ILE:HD11	1:I:491:ILE:CD1	2.21	0.71
1:A:245:LEU:HD11	1:L:265:LYS:CG	2.20	0.71
1:A:245:LEU:HD11	1:L:265:LYS:HG3	1.72	0.71
1:B:409:GLN:HE21	1:B:412:ILE:HG23	1.56	0.71
1:C:409:GLN:HE21	1:C:412:ILE:HG23	1.56	0.71
1:F:404:LEU:CD1	1:F:417:PRO:HA	2.08	0.71
1:H:409:GLN:HE21	1:H:412:ILE:HG23	1.56	0.71
1:J:409:GLN:HE21	1:J:412:ILE:HG23	1.56	0.71
1:K:404:LEU:HB2	1:K:415:ILE:CG2	2.20	0.71
1:K:265:LYS:HG3	1:L:245:LEU:HD11	1.72	0.71
1:A:409:GLN:HE21	1:A:412:ILE:HG23	1.56	0.70
1:B:299:GLN:NE2	1:C:227:ASN:CG	2.44	0.70
1:C:457:ARG:NH2	1:C:460:LEU:HD12	2.06	0.70
1:D:265:LYS:CG	1:E:245:LEU:HD11	2.20	0.70
1:G:409:GLN:HE21	1:G:412:ILE:HG23	1.56	0.70
1:G:459:ILE:HD13	1:G:509:LEU:CD1	2.21	0.70
1:L:409:GLN:HE21	1:L:412:ILE:HG23	1.56	0.70
2:N:98:VAL:HG11	2:N:112:GLU:HB3	1.73	0.70
1:B:382:MET:HE1	1:B:384:LEU:HG	1.73	0.70
1:D:409:GLN:HE21	1:D:412:ILE:HG23	1.56	0.70
1:E:404:LEU:CD1	1:E:417:PRO:HA	2.08	0.70
1:E:483:ILE:HD11	1:E:491:ILE:CD1	2.21	0.70
1:F:409:GLN:HE21	1:F:412:ILE:HG23	1.56	0.70
1:H:265:LYS:HG3	1:I:245:LEU:HD11	1.72	0.70
1:J:299:GLN:NE2	1:K:227:ASN:CG	2.44	0.70
1:K:351:ASP:OD2	2:W:99:GLY:HA3	1.89	0.70
1:K:409:GLN:HE21	1:K:412:ILE:HG23	1.56	0.70
1:L:459:ILE:HD13	1:L:509:LEU:CD1	2.21	0.70
1:A:351:ASP:OD2	2:M:99:GLY:HA3	1.89	0.70
1:D:448:LEU:HD11	1:D:506:ILE:CG2	2.21	0.70
1:D:299:GLN:NE2	1:E:227:ASN:CG	2.44	0.70
1:E:409:GLN:HE21	1:E:412:ILE:HG23	1.56	0.70
1:E:448:LEU:HD11	1:E:506:ILE:CG2	2.21	0.70
1:F:457:ARG:NH2	1:F:460:LEU:HD12	2.06	0.70
1:H:448:LEU:HD11	1:H:506:ILE:CG2	2.21	0.70
2:T:98:VAL:HG11	2:T:112:GLU:HB3	1.73	0.70
1:J:347:LYS:CE	2:V:104:GLY:CA	2.67	0.70
1:C:448:LEU:HD11	1:C:506:ILE:CG2	2.21	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:457:ARG:NH2	1:D:460:LEU:HD12	2.06	0.70
1:G:396:ASP:OD1	1:H:467:THR:HG21	1.67	0.70
1:H:459:ILE:HD13	1:H:509:LEU:CD1	2.21	0.70
1:I:448:LEU:HD11	1:I:506:ILE:CG2	2.21	0.70
1:K:299:GLN:NE2	1:L:227:ASN:CG	2.44	0.70
1:C:299:GLN:NE2	1:D:227:ASN:CG	2.44	0.70
1:C:459:ILE:HD13	1:C:509:LEU:CD1	2.21	0.70
1:E:372:ILE:HG23	1:E:415:ILE:CD1	2.22	0.70
1:G:265:LYS:HG3	1:H:245:LEU:HD11	1.72	0.70
1:H:467:THR:HG21	1:H:476:SER:CB	2.22	0.70
1:J:350:LEU:HD12	1:J:352:PHE:HE2	1.55	0.70
1:K:347:LYS:HZ1	2:W:104:GLY:CA	1.98	0.70
2:U:98:VAL:HG11	2:U:112:GLU:HB3	1.73	0.70
1:A:350:LEU:HD12	1:A:352:PHE:CE2	2.27	0.70
1:D:396:ASP:OD1	1:E:467:THR:HB	1.91	0.70
1:J:467:THR:HG21	1:J:476:SER:CB	2.22	0.70
1:A:299:GLN:NE2	1:B:227:ASN:CG	2.44	0.70
1:A:299:GLN:NE2	1:B:227:ASN:OD1	2.25	0.70
1:A:452:ASN:OD1	1:A:455:GLU:HB2	1.92	0.70
1:A:459:ILE:HD13	1:A:509:LEU:CD1	2.21	0.70
1:B:448:LEU:HD11	1:B:506:ILE:CG2	2.21	0.70
1:E:350:LEU:HD12	1:E:352:PHE:CE2	2.27	0.70
1:E:452:ASN:OD1	1:E:455:GLU:HB2	1.92	0.70
1:F:448:LEU:HD11	1:F:506:ILE:CG2	2.21	0.70
1:H:452:ASN:OD1	1:H:455:GLU:HB2	1.92	0.70
1:H:483:ILE:HD11	1:H:491:ILE:CD1	2.21	0.70
1:I:350:LEU:HD12	1:I:352:PHE:CE2	2.27	0.70
1:I:459:ILE:HD13	1:I:509:LEU:CD1	2.21	0.70
1:K:452:ASN:OD1	1:K:455:GLU:HB2	1.92	0.70
1:K:467:THR:HG21	1:K:476:SER:CB	2.22	0.70
1:A:354:ASP:O	1:A:381:LYS:HD3	1.92	0.70
1:B:350:LEU:HD12	1:B:352:PHE:CE2	2.27	0.70
1:B:299:GLN:NE2	1:C:227:ASN:OD1	2.25	0.70
1:D:452:ASN:OD1	1:D:455:GLU:HB2	1.92	0.70
1:F:299:GLN:NE2	1:G:227:ASN:OD1	2.25	0.70
1:F:396:ASP:OD1	1:G:467:THR:HB	1.91	0.70
1:G:467:THR:HG21	1:G:476:SER:CB	2.22	0.70
1:J:448:LEU:HD11	1:J:506:ILE:CG2	2.21	0.70
1:D:347:LYS:CE	2:P:104:GLY:CA	2.67	0.70
2:S:98:VAL:HG11	2:S:112:GLU:HB3	1.73	0.70
1:L:351:ASP:OD2	2:X:99:GLY:HA3	1.89	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:404:LEU:CD1	1:A:417:PRO:HA	2.08	0.70
1:A:457:ARG:NH2	1:A:460:LEU:HD12	2.06	0.70
1:B:350:LEU:HD12	1:B:352:PHE:HE2	1.55	0.70
1:B:459:ILE:HD13	1:B:509:LEU:CD1	2.21	0.70
1:F:350:LEU:HD12	1:F:352:PHE:CE2	2.27	0.70
1:F:382:MET:HE2	1:F:384:LEU:HG	1.73	0.70
1:F:452:ASN:OD1	1:F:455:GLU:HB2	1.92	0.70
1:F:483:ILE:HD11	1:F:491:ILE:CD1	2.21	0.70
1:H:354:ASP:O	1:H:381:LYS:HD3	1.92	0.70
1:I:299:GLN:NE2	1:J:227:ASN:CG	2.44	0.70
1:I:265:LYS:HG3	1:J:245:LEU:HD11	1.72	0.70
1:L:459:ILE:HG13	1:L:460:LEU:N	2.07	0.70
1:L:448:LEU:HD11	1:L:506:ILE:CG2	2.21	0.70
1:A:227:ASN:OD1	1:L:299:GLN:NE2	2.25	0.70
1:A:265:LYS:HG3	1:B:245:LEU:HD11	1.72	0.70
1:B:372:ILE:HG23	1:B:415:ILE:CD1	2.22	0.70
1:B:354:ASP:O	1:B:381:LYS:HD3	1.92	0.70
1:C:354:ASP:O	1:C:381:LYS:HD3	1.92	0.70
1:E:265:LYS:HG3	1:F:245:LEU:HD11	1.72	0.70
1:E:467:THR:HG21	1:E:476:SER:CB	2.22	0.70
1:G:354:ASP:O	1:G:381:LYS:HD3	1.92	0.70
1:G:265:LYS:CG	1:H:245:LEU:HD11	2.20	0.70
2:O:98:VAL:HG11	2:O:112:GLU:HB3	1.73	0.70
1:A:467:THR:HB	1:L:396:ASP:OD1	1.91	0.69
1:A:448:LEU:HD11	1:A:506:ILE:CG2	2.21	0.69
1:D:372:ILE:HG23	1:D:415:ILE:CD1	2.22	0.69
1:E:457:ARG:NH2	1:E:460:LEU:HD12	2.06	0.69
1:E:299:GLN:NE2	1:F:227:ASN:OD1	2.25	0.69
1:G:372:ILE:HG23	1:G:415:ILE:CD1	2.22	0.69
1:H:372:ILE:HG23	1:H:415:ILE:CD1	2.22	0.69
1:I:452:ASN:OD1	1:I:455:GLU:HB2	1.92	0.69
1:K:396:ASP:OD1	1:L:467:THR:HB	1.91	0.69
1:K:459:ILE:HD13	1:K:509:LEU:CD1	2.21	0.69
1:L:350:LEU:HD12	1:L:352:PHE:CE2	2.27	0.69
1:L:452:ASN:OD1	1:L:455:GLU:HB2	1.92	0.69
1:B:347:LYS:CE	2:N:104:GLY:CA	2.67	0.69
1:D:350:LEU:HD12	1:D:352:PHE:CE2	2.27	0.69
1:F:354:ASP:O	1:F:381:LYS:HD3	1.92	0.69
1:G:396:ASP:OD1	1:H:467:THR:HB	1.91	0.69
1:I:293:ARG:NH1	1:J:272:THR:CG2	2.48	0.69
1:I:396:ASP:OD1	1:J:467:THR:HG21	1.67	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:452:ASN:OD1	1:J:455:GLU:HB2	1.92	0.69
1:K:459:ILE:HG13	1:K:460:LEU:N	2.07	0.69
1:A:467:THR:HG21	1:A:476:SER:CB	2.22	0.69
1:E:354:ASP:O	1:E:381:LYS:HD3	1.92	0.69
1:G:457:ARG:NH2	1:G:460:LEU:HD12	2.06	0.69
1:G:483:ILE:HD11	1:G:491:ILE:CD1	2.21	0.69
1:K:299:GLN:NE2	1:L:227:ASN:OD1	2.25	0.69
1:L:457:ARG:NH2	1:L:460:LEU:HD12	2.06	0.69
1:A:265:LYS:CG	1:B:245:LEU:CD1	2.70	0.69
1:A:459:ILE:HG13	1:A:460:LEU:N	2.07	0.69
1:B:452:ASN:OD1	1:B:455:GLU:HB2	1.92	0.69
1:C:395:LEU:O	1:C:399:MET:HG2	1.93	0.69
1:C:372:ILE:HG23	1:C:415:ILE:CD1	2.22	0.69
1:D:265:LYS:HG3	1:E:245:LEU:HD11	1.72	0.69
1:F:265:LYS:HG3	1:G:245:LEU:HD11	1.72	0.69
1:G:347:LYS:HZ2	2:S:104:GLY:CA	1.94	0.69
1:H:350:LEU:HD12	1:H:352:PHE:CE2	2.27	0.69
1:J:354:ASP:O	1:J:381:LYS:HD3	1.92	0.69
1:K:265:LYS:CG	1:L:245:LEU:CD1	2.70	0.69
2:P:98:VAL:HG11	2:P:112:GLU:HB3	1.73	0.69
2:Q:98:VAL:HG11	2:Q:112:GLU:HB3	1.73	0.69
2:R:98:VAL:HG11	2:R:112:GLU:HB3	1.73	0.69
1:D:395:LEU:O	1:D:399:MET:HG2	1.93	0.69
1:F:372:ILE:HG23	1:F:415:ILE:CD1	2.22	0.69
1:G:350:LEU:HD12	1:G:352:PHE:CE2	2.27	0.69
1:H:265:LYS:CG	1:I:245:LEU:CD1	2.70	0.69
1:H:299:GLN:NE2	1:I:227:ASN:OD1	2.25	0.69
1:I:354:ASP:O	1:I:381:LYS:HD3	1.92	0.69
1:J:459:ILE:HD13	1:J:509:LEU:CD1	2.21	0.69
1:B:395:LEU:O	1:B:399:MET:HG2	1.93	0.69
1:B:467:THR:HG21	1:B:476:SER:CB	2.22	0.69
1:C:299:GLN:NE2	1:D:227:ASN:OD1	2.25	0.69
1:C:350:LEU:HD12	1:C:352:PHE:CE2	2.27	0.69
1:D:396:ASP:OD1	1:E:467:THR:HG21	1.67	0.69
1:J:350:LEU:HD12	1:J:352:PHE:CE2	2.27	0.69
1:J:372:ILE:HG23	1:J:415:ILE:CD1	2.22	0.69
1:J:396:ASP:OD1	1:K:467:THR:HB	1.91	0.69
1:K:294:LEU:CA	1:L:273:LEU:CD2	2.64	0.69
1:L:354:ASP:O	1:L:381:LYS:HD3	1.92	0.69
1:A:362:GLN:O	1:A:366:LYS:HG2	1.93	0.69
1:B:457:ARG:NH2	1:B:460:LEU:HD12	2.06	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:265:LYS:CG	1:C:245:LEU:HD11	2.20	0.69
1:C:362:GLN:O	1:C:366:LYS:HG2	1.93	0.69
1:C:452:ASN:OD1	1:C:455:GLU:HB2	1.92	0.69
1:D:467:THR:HG21	1:D:476:SER:CB	2.22	0.69
1:E:396:ASP:OD1	1:F:467:THR:HB	1.91	0.69
1:F:265:LYS:CG	1:G:245:LEU:CD1	2.71	0.69
1:F:467:THR:HG21	1:F:476:SER:CB	2.22	0.69
1:G:299:GLN:NE2	1:H:227:ASN:OD1	2.25	0.69
1:G:395:LEU:O	1:G:399:MET:HG2	1.93	0.69
1:I:299:GLN:NE2	1:J:227:ASN:OD1	2.25	0.69
1:I:467:THR:HG21	1:I:476:SER:CB	2.22	0.69
1:K:354:ASP:O	1:K:381:LYS:HD3	1.92	0.69
1:A:227:ASN:CG	1:L:299:GLN:NE2	2.44	0.69
1:L:395:LEU:O	1:L:399:MET:HG2	1.93	0.69
1:A:396:ASP:OD1	1:B:467:THR:HB	1.91	0.69
1:B:294:LEU:CA	1:C:273:LEU:CD2	2.64	0.69
1:E:395:LEU:O	1:E:399:MET:HG2	1.93	0.69
1:F:293:ARG:NH1	1:G:272:THR:CG2	2.48	0.69
1:F:362:GLN:O	1:F:366:LYS:HG2	1.93	0.69
1:G:452:ASN:OD1	1:G:455:GLU:HB2	1.92	0.69
1:I:362:GLN:O	1:I:366:LYS:HG2	1.93	0.69
1:I:395:LEU:O	1:I:399:MET:HG2	1.93	0.69
1:B:396:ASP:OD1	1:C:467:THR:HB	1.91	0.69
1:D:354:ASP:O	1:D:381:LYS:HD3	1.92	0.69
1:D:459:ILE:HD13	1:D:509:LEU:CD1	2.21	0.69
1:E:459:ILE:HD13	1:E:509:LEU:CD1	2.21	0.69
1:I:457:ARG:NH2	1:I:460:LEU:HD12	2.06	0.69
1:J:395:LEU:O	1:J:399:MET:HG2	1.93	0.69
1:J:265:LYS:HG3	1:K:245:LEU:HD11	1.72	0.69
1:D:265:LYS:CG	1:E:245:LEU:CD1	2.70	0.69
1:E:362:GLN:O	1:E:366:LYS:HG2	1.93	0.69
1:G:382:MET:HE2	1:G:384:LEU:HG	1.75	0.69
1:H:362:GLN:O	1:H:366:LYS:HG2	1.93	0.69
1:J:357:ILE:HA	1:J:360:ILE:HG12	1.75	0.69
1:J:459:ILE:HG13	1:J:460:LEU:N	2.07	0.69
1:K:350:LEU:HD12	1:K:352:PHE:CE2	2.27	0.69
1:A:395:LEU:O	1:A:399:MET:HG2	1.93	0.69
1:C:382:MET:HE2	1:C:384:LEU:HG	1.73	0.69
1:D:299:GLN:NE2	1:E:227:ASN:OD1	2.25	0.69
1:C:343:PHE:HD1	1:D:469:GLY:HA2	1.57	0.69
1:K:395:LEU:O	1:K:399:MET:HG2	1.93	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:372:ILE:HG23	1:K:415:ILE:CD1	2.22	0.69
1:L:404:LEU:CD1	1:L:417:PRO:HA	2.08	0.69
1:G:347:LYS:CE	2:S:104:GLY:CA	2.67	0.69
1:K:347:LYS:CE	2:W:104:GLY:CA	2.67	0.69
1:A:372:ILE:HG23	1:A:415:ILE:CD1	2.22	0.68
1:F:395:LEU:O	1:F:399:MET:HG2	1.93	0.68
1:H:395:LEU:O	1:H:399:MET:HG2	1.93	0.68
1:I:357:ILE:HA	1:I:360:ILE:HG12	1.75	0.68
1:J:299:GLN:NE2	1:K:227:ASN:OD1	2.25	0.68
1:L:467:THR:HG21	1:L:476:SER:CB	2.22	0.68
1:H:457:ARG:NH2	1:H:460:LEU:HD12	2.06	0.68
1:J:362:GLN:O	1:J:366:LYS:HG2	1.93	0.68
1:L:357:ILE:HA	1:L:360:ILE:HG12	1.75	0.68
1:B:362:GLN:O	1:B:366:LYS:HG2	1.93	0.68
1:D:362:GLN:O	1:D:366:LYS:HG2	1.93	0.68
1:I:396:ASP:OD1	1:J:467:THR:HB	1.91	0.68
1:I:265:LYS:CG	1:J:245:LEU:HD11	2.20	0.68
1:J:457:ARG:NH2	1:J:460:LEU:HD12	2.06	0.68
2:W:136:ILE:HG23	2:W:141:ILE:HG23	1.76	0.68
1:C:467:THR:HG21	1:C:476:SER:CB	2.22	0.68
1:L:362:GLN:O	1:L:366:LYS:HG2	1.93	0.68
2:X:136:ILE:HG23	2:X:141:ILE:HG23	1.76	0.68
1:I:265:LYS:CG	1:J:245:LEU:CD1	2.71	0.68
1:I:372:ILE:HG23	1:I:415:ILE:CD1	2.22	0.68
1:A:229:ASP:CG	1:L:261:ILE:HG21	2.10	0.68
2:U:136:ILE:HG23	2:U:141:ILE:HG23	1.76	0.68
1:B:459:ILE:HG13	1:B:460:LEU:N	2.07	0.68
1:G:357:ILE:HA	1:G:360:ILE:HG12	1.75	0.68
1:G:404:LEU:CD1	1:G:417:PRO:HA	2.08	0.68
1:B:516:VAL:HG23	1:B:517:MET:N	2.09	0.68
1:D:459:ILE:HG13	1:D:460:LEU:N	2.07	0.68
1:E:347:LYS:HZ2	2:Q:104:GLY:CA	1.97	0.68
1:F:459:ILE:HD13	1:F:509:LEU:CD1	2.21	0.68
1:H:261:ILE:HG21	1:I:229:ASP:CG	2.10	0.68
1:G:447:GLN:CB	1:H:508:GLU:OE2	2.42	0.68
1:L:372:ILE:HG23	1:L:415:ILE:CD1	2.22	0.68
1:A:343:PHE:HD1	1:B:469:GLY:HA2	1.57	0.68
1:H:459:ILE:HG13	1:H:460:LEU:N	2.07	0.68
1:H:447:GLN:CB	1:I:508:GLU:OE2	2.42	0.68
2:U:148:GLU:HG2	2:U:154:TRP:N	2.09	0.68
2:V:136:ILE:HG23	2:V:141:ILE:HG23	1.76	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:265:LYS:CG	1:C:245:LEU:CD1	2.70	0.68
1:B:372:ILE:HG12	1:B:413:VAL:CG2	2.24	0.68
1:E:459:ILE:HG13	1:E:460:LEU:N	2.07	0.68
1:F:459:ILE:HG13	1:F:460:LEU:N	2.07	0.68
1:H:424:LYS:HG2	1:H:428:PHE:CE1	2.29	0.68
1:K:362:GLN:O	1:K:366:LYS:HG2	1.93	0.68
1:K:516:VAL:HG23	1:K:517:MET:N	2.09	0.68
2:R:148:GLU:HG2	2:R:154:TRP:N	2.09	0.68
2:T:136:ILE:HG23	2:T:141:ILE:HG23	1.76	0.68
1:A:357:ILE:HA	1:A:360:ILE:HG12	1.75	0.68
1:B:444:GLN:HB3	1:B:499:ILE:HD11	1.76	0.68
1:C:424:LYS:HG2	1:C:428:PHE:CE1	2.29	0.68
1:B:447:GLN:CB	1:C:508:GLU:OE2	2.42	0.68
1:D:372:ILE:HG12	1:D:413:VAL:CG2	2.24	0.68
1:F:447:GLN:CB	1:G:508:GLU:OE2	2.42	0.68
1:K:457:ARG:NH2	1:K:460:LEU:HD12	2.06	0.68
1:L:372:ILE:HG12	1:L:413:VAL:CG2	2.24	0.68
1:C:444:GLN:HB3	1:C:499:ILE:HD11	1.76	0.67
1:F:261:ILE:HG21	1:G:229:ASP:CG	2.10	0.67
1:F:294:LEU:HG	1:G:273:LEU:HD21	1.76	0.67
2:M:136:ILE:HG23	2:M:141:ILE:HG23	1.76	0.67
2:W:148:GLU:HG2	2:W:154:TRP:N	2.09	0.67
1:A:444:GLN:HB3	1:A:499:ILE:HD11	1.76	0.67
1:G:362:GLN:O	1:G:366:LYS:HG2	1.93	0.67
2:X:148:GLU:HG2	2:X:154:TRP:N	2.09	0.67
1:A:424:LYS:HG2	1:A:428:PHE:CE1	2.29	0.67
1:D:357:ILE:HA	1:D:360:ILE:HG12	1.75	0.67
1:G:459:ILE:HG13	1:G:460:LEU:N	2.07	0.67
1:I:459:ILE:HG13	1:I:460:LEU:N	2.07	0.67
1:J:424:LYS:HG2	1:J:428:PHE:CE1	2.29	0.67
1:K:487:THR:HG21	1:L:459:ILE:HG22	1.76	0.67
1:L:516:VAL:HG23	1:L:517:MET:N	2.09	0.67
2:O:97:TYR:CD2	2:O:161:LEU:HD11	2.30	0.67
2:Q:97:TYR:CD2	2:Q:161:LEU:HD11	2.30	0.67
2:S:97:TYR:CD2	2:S:161:LEU:HD11	2.30	0.67
2:T:148:GLU:HG2	2:T:154:TRP:N	2.09	0.67
1:A:447:GLN:CB	1:B:508:GLU:OE2	2.42	0.67
1:C:357:ILE:HA	1:C:360:ILE:HG12	1.75	0.67
1:D:516:VAL:HG23	1:D:517:MET:N	2.09	0.67
1:E:487:THR:HG21	1:F:459:ILE:HG22	1.76	0.67
1:H:475:ILE:HG23	1:H:476:SER:O	1.95	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:404:LEU:CD1	1:K:417:PRO:HA	2.08	0.67
1:L:424:LYS:HG2	1:L:428:PHE:CE1	2.29	0.67
1:A:459:ILE:HG22	1:L:487:THR:HG21	1.76	0.67
1:D:261:ILE:HG21	1:E:229:ASP:CG	2.10	0.67
1:D:444:GLN:HB3	1:D:499:ILE:HD11	1.76	0.67
1:C:447:GLN:CB	1:D:508:GLU:OE2	2.42	0.67
1:E:516:VAL:HG23	1:E:517:MET:N	2.09	0.67
1:F:487:THR:HG21	1:G:459:ILE:HG22	1.76	0.67
1:L:444:GLN:HB3	1:L:499:ILE:HD11	1.76	0.67
2:N:136:ILE:HG23	2:N:141:ILE:HG23	1.76	0.67
2:Q:148:GLU:HG2	2:Q:154:TRP:N	2.09	0.67
2:S:148:GLU:HG2	2:S:154:TRP:N	2.09	0.67
1:A:487:THR:HG21	1:B:459:ILE:HG22	1.76	0.67
1:C:516:VAL:HG23	1:C:517:MET:N	2.09	0.67
1:E:475:ILE:HG23	1:E:476:SER:O	1.95	0.67
1:F:357:ILE:HA	1:F:360:ILE:HG12	1.75	0.67
1:G:265:LYS:CG	1:H:245:LEU:CD1	2.70	0.67
1:H:396:ASP:OD1	1:I:467:THR:HB	1.91	0.67
1:J:475:ILE:HG23	1:J:476:SER:O	1.95	0.67
1:J:294:LEU:CB	1:K:273:LEU:HD21	2.25	0.67
2:P:97:TYR:CD2	2:P:161:LEU:HD11	2.30	0.67
1:A:516:VAL:HG23	1:A:517:MET:N	2.09	0.67
1:A:294:LEU:CB	1:B:273:LEU:HD21	2.25	0.67
1:B:475:ILE:HG23	1:B:476:SER:O	1.95	0.67
1:C:396:ASP:OD1	1:D:467:THR:HB	1.91	0.67
1:C:459:ILE:HG13	1:C:460:LEU:N	2.07	0.67
1:C:475:ILE:HG23	1:C:476:SER:O	1.95	0.67
1:D:487:THR:HG21	1:E:459:ILE:HG22	1.76	0.67
1:K:357:ILE:HA	1:K:360:ILE:HG12	1.75	0.67
2:M:97:TYR:CD2	2:M:161:LEU:HD11	2.30	0.67
2:P:148:GLU:HG2	2:P:154:TRP:N	2.09	0.67
2:P:162:LEU:H	2:P:162:LEU:HD23	1.60	0.67
1:A:273:LEU:HD21	1:L:294:LEU:CB	2.25	0.67
1:E:357:ILE:HA	1:E:360:ILE:HG12	1.75	0.67
1:E:424:LYS:HG2	1:E:428:PHE:CE1	2.29	0.67
1:F:372:ILE:HG12	1:F:413:VAL:CG2	2.24	0.67
1:F:475:ILE:HG23	1:F:476:SER:O	1.95	0.67
1:H:357:ILE:HA	1:H:360:ILE:HG12	1.75	0.67
1:I:516:VAL:HG23	1:I:517:MET:N	2.09	0.67
1:A:245:LEU:CD1	1:L:265:LYS:CG	2.71	0.67
2:O:148:GLU:HG2	2:O:154:TRP:N	2.09	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:S:136:ILE:HG23	2:S:141:ILE:HG23	1.76	0.67
2:X:97:TYR:CD2	2:X:161:LEU:HD11	2.30	0.67
1:C:361:LEU:HD21	1:C:372:ILE:HG22	1.77	0.67
1:C:294:LEU:CB	1:D:273:LEU:HD21	2.25	0.67
1:J:487:THR:HG21	1:K:459:ILE:HG22	1.76	0.67
1:K:424:LYS:HG2	1:K:428:PHE:CE1	2.29	0.67
1:L:475:ILE:HG23	1:L:476:SER:O	1.95	0.67
2:N:97:TYR:CD2	2:N:161:LEU:HD11	2.30	0.67
2:R:97:TYR:CD2	2:R:161:LEU:HD11	2.30	0.67
2:V:148:GLU:HG2	2:V:154:TRP:N	2.09	0.67
1:A:475:ILE:HG23	1:A:476:SER:O	1.95	0.67
1:D:361:LEU:HD21	1:D:372:ILE:HG22	1.77	0.67
1:G:487:THR:HG21	1:H:459:ILE:HG22	1.76	0.67
1:H:404:LEU:CD1	1:H:417:PRO:HA	2.08	0.67
1:A:294:LEU:HG	1:B:273:LEU:HD21	1.76	0.66
1:G:424:LYS:HG2	1:G:428:PHE:CE1	2.29	0.66
1:I:372:ILE:HG12	1:I:413:VAL:CG2	2.24	0.66
1:I:424:LYS:HG2	1:I:428:PHE:CE1	2.29	0.66
1:I:447:GLN:CB	1:J:508:GLU:OE2	2.42	0.66
2:N:148:GLU:HG2	2:N:154:TRP:N	2.09	0.66
2:V:97:TYR:CD2	2:V:161:LEU:HD11	2.30	0.66
2:W:97:TYR:CD2	2:W:161:LEU:HD11	2.30	0.66
1:B:357:ILE:HA	1:B:360:ILE:HG12	1.75	0.66
1:B:361:LEU:HD21	1:B:372:ILE:HG22	1.77	0.66
1:F:424:LYS:HG2	1:F:428:PHE:CE1	2.29	0.66
1:F:482:LEU:HD13	1:F:482:LEU:N	2.11	0.66
1:G:444:GLN:HB3	1:G:499:ILE:HD11	1.76	0.66
1:H:294:LEU:CB	1:I:273:LEU:HD21	2.25	0.66
1:I:382:MET:HE2	1:I:384:LEU:HG	1.76	0.66
1:I:404:LEU:CD1	1:I:417:PRO:HA	2.08	0.66
1:K:293:ARG:NH1	1:L:272:THR:CG2	2.47	0.66
1:K:475:ILE:HG23	1:K:476:SER:O	1.95	0.66
1:K:294:LEU:CB	1:L:273:LEU:HD21	2.25	0.66
2:O:136:ILE:HG23	2:O:141:ILE:HG23	1.76	0.66
2:S:162:LEU:HD23	2:S:162:LEU:H	1.60	0.66
2:U:97:TYR:CD2	2:U:161:LEU:HD11	2.30	0.66
1:A:508:GLU:OE2	1:L:447:GLN:CB	2.42	0.66
1:B:487:THR:HG21	1:C:459:ILE:HG22	1.76	0.66
1:E:444:GLN:HB3	1:E:499:ILE:HD11	1.76	0.66
1:E:343:PHE:HD1	1:F:469:GLY:HA2	1.57	0.66
1:H:482:LEU:N	1:H:482:LEU:HD13	2.11	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:361:LEU:HD21	1:J:372:ILE:HG22	1.77	0.66
1:K:382:MET:HE2	1:K:384:LEU:HG	1.78	0.66
1:K:444:GLN:HB3	1:K:499:ILE:HD11	1.76	0.66
2:M:148:GLU:HG2	2:M:154:TRP:N	2.09	0.66
2:P:136:ILE:HG23	2:P:141:ILE:HG23	1.76	0.66
2:W:162:LEU:HD23	2:W:162:LEU:H	1.60	0.66
1:B:343:PHE:HD1	1:C:469:GLY:HA2	1.57	0.66
1:E:361:LEU:HD21	1:E:372:ILE:HG22	1.77	0.66
1:F:444:GLN:HB3	1:F:499:ILE:HD11	1.76	0.66
1:G:516:VAL:HG23	1:G:517:MET:N	2.09	0.66
1:J:261:ILE:HG21	1:K:229:ASP:CG	2.10	0.66
1:K:482:LEU:HD13	1:K:482:LEU:N	2.11	0.66
1:A:273:LEU:CD2	1:L:294:LEU:CA	2.65	0.66
2:M:162:LEU:HD23	2:M:162:LEU:H	1.60	0.66
1:A:469:GLY:HA2	1:L:343:PHE:HD1	1.57	0.66
1:A:483:ILE:HG12	1:A:491:ILE:HB	1.78	0.66
1:B:294:LEU:CB	1:C:273:LEU:HD21	2.25	0.66
1:D:447:GLN:CB	1:E:508:GLU:OE2	2.42	0.66
1:C:487:THR:HG21	1:D:459:ILE:HG22	1.76	0.66
1:E:265:LYS:CG	1:F:245:LEU:CD1	2.70	0.66
1:G:425:ASP:HA	1:G:428:PHE:CD2	2.31	0.66
1:H:444:GLN:HB3	1:H:499:ILE:HD11	1.76	0.66
2:R:136:ILE:HG23	2:R:141:ILE:HG23	1.76	0.66
1:A:416:ALA:HB1	1:A:417:PRO:HD2	1.77	0.66
1:B:424:LYS:HG2	1:B:428:PHE:CE1	2.29	0.66
1:D:424:LYS:HG2	1:D:428:PHE:CE1	2.29	0.66
1:E:450:TYR:CG	1:E:514:GLN:HA	2.31	0.66
1:E:294:LEU:CB	1:F:273:LEU:HD21	2.25	0.66
1:F:450:TYR:CG	1:F:514:GLN:HA	2.31	0.66
1:I:361:LEU:HD21	1:I:372:ILE:HG22	1.77	0.66
1:I:482:LEU:HD13	1:I:482:LEU:N	2.11	0.66
1:K:261:ILE:HG21	1:L:229:ASP:CG	2.10	0.66
1:K:447:GLN:CB	1:L:508:GLU:OE2	2.42	0.66
2:Q:136:ILE:HG23	2:Q:141:ILE:HG23	1.76	0.66
2:V:162:LEU:HD23	2:V:162:LEU:H	1.60	0.66
2:X:162:LEU:H	2:X:162:LEU:HD23	1.60	0.66
1:B:425:ASP:HA	1:B:428:PHE:CD2	2.31	0.66
1:D:425:ASP:HA	1:D:428:PHE:CD2	2.31	0.66
1:D:483:ILE:HG12	1:D:491:ILE:HB	1.78	0.66
1:D:490:LEU:HD23	1:D:506:ILE:HD11	1.77	0.66
1:D:450:TYR:CG	1:D:514:GLN:HA	2.31	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:487:THR:HG21	1:J:459:ILE:HG22	1.76	0.66
1:K:361:LEU:HD21	1:K:372:ILE:HG22	1.77	0.66
1:L:483:ILE:HG12	1:L:491:ILE:HB	1.78	0.66
2:T:97:TYR:CD2	2:T:161:LEU:HD11	2.30	0.66
1:B:416:ALA:HB1	1:B:417:PRO:HD2	1.77	0.66
1:G:475:ILE:HG23	1:G:476:SER:O	1.95	0.66
1:G:482:LEU:O	1:G:482:LEU:HD22	1.96	0.66
1:G:450:TYR:CG	1:G:514:GLN:HA	2.31	0.66
1:H:487:THR:HG21	1:I:459:ILE:HG22	1.76	0.66
1:I:475:ILE:HG23	1:I:476:SER:O	1.95	0.66
1:J:483:ILE:HG12	1:J:491:ILE:HB	1.78	0.66
2:R:162:LEU:HD23	2:R:162:LEU:H	1.60	0.66
1:C:450:TYR:CG	1:C:514:GLN:HA	2.31	0.66
1:C:490:LEU:HD23	1:C:506:ILE:HD11	1.77	0.66
1:D:482:LEU:HD13	1:D:482:LEU:N	2.11	0.66
1:F:361:LEU:HD21	1:F:372:ILE:HG22	1.77	0.66
1:G:446:PHE:HE2	1:G:503:ARG:HB2	1.61	0.66
1:I:446:PHE:HE2	1:I:503:ARG:HB2	1.61	0.66
1:I:482:LEU:HD22	1:I:482:LEU:O	1.96	0.66
1:I:483:ILE:HG12	1:I:491:ILE:HB	1.78	0.66
1:I:490:LEU:HD23	1:I:506:ILE:HD11	1.77	0.66
1:J:425:ASP:HA	1:J:428:PHE:CD2	2.31	0.66
1:J:447:GLN:CB	1:K:508:GLU:OE2	2.42	0.66
1:J:482:LEU:HD13	1:J:482:LEU:N	2.11	0.66
1:J:446:PHE:HE2	1:J:503:ARG:HB2	1.61	0.66
1:K:372:ILE:HG12	1:K:413:VAL:CG2	2.24	0.66
1:L:416:ALA:HB1	1:L:417:PRO:HD2	1.78	0.66
2:O:162:LEU:H	2:O:162:LEU:HD23	1.60	0.66
2:U:162:LEU:H	2:U:162:LEU:HD23	1.60	0.66
1:A:482:LEU:HD13	1:A:482:LEU:N	2.11	0.66
1:E:425:ASP:HA	1:E:428:PHE:CD2	2.31	0.66
1:F:416:ALA:HB1	1:F:417:PRO:HD2	1.78	0.66
1:F:294:LEU:CB	1:G:273:LEU:HD21	2.25	0.66
1:H:446:PHE:HE2	1:H:503:ARG:HB2	1.61	0.66
1:J:265:LYS:CG	1:K:245:LEU:CD1	2.70	0.66
1:J:372:ILE:HG12	1:J:413:VAL:CG2	2.24	0.66
1:J:490:LEU:HD23	1:J:506:ILE:HD11	1.77	0.66
1:K:446:PHE:HE2	1:K:503:ARG:HB2	1.61	0.66
2:N:162:LEU:H	2:N:162:LEU:HD23	1.60	0.66
1:A:425:ASP:HA	1:A:428:PHE:CD2	2.31	0.65
1:C:483:ILE:HG12	1:C:491:ILE:HB	1.78	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:475:ILE:HG23	1:D:476:SER:O	1.95	0.65
1:F:516:VAL:HG23	1:F:517:MET:N	2.09	0.65
1:H:416:ALA:HB1	1:H:417:PRO:HD2	1.77	0.65
1:H:450:TYR:CG	1:H:514:GLN:HA	2.31	0.65
1:I:354:ASP:C	1:I:381:LYS:HD3	2.17	0.65
1:I:294:LEU:CB	1:J:273:LEU:HD21	2.25	0.65
1:L:446:PHE:HE2	1:L:503:ARG:HB2	1.61	0.65
1:C:307:ASN:CG	2:O:162:LEU:HD12	2.17	0.65
2:Q:162:LEU:HD23	2:Q:162:LEU:H	1.60	0.65
1:A:446:PHE:HE2	1:A:503:ARG:HB2	1.61	0.65
1:B:354:ASP:C	1:B:381:LYS:HD3	2.17	0.65
1:B:450:TYR:CG	1:B:514:GLN:HA	2.31	0.65
1:D:294:LEU:CB	1:E:273:LEU:HD21	2.25	0.65
1:E:482:LEU:N	1:E:482:LEU:HD13	2.11	0.65
1:F:425:ASP:HA	1:F:428:PHE:CD2	2.31	0.65
1:G:482:LEU:N	1:G:482:LEU:HD13	2.11	0.65
1:G:294:LEU:CB	1:H:273:LEU:HD21	2.25	0.65
1:H:307:ASN:CG	2:T:162:LEU:HD12	2.17	0.65
1:H:490:LEU:HD23	1:H:506:ILE:HD11	1.77	0.65
1:I:425:ASP:HA	1:I:428:PHE:CD2	2.31	0.65
1:K:425:ASP:HA	1:K:428:PHE:CD2	2.31	0.65
1:A:361:LEU:HD21	1:A:372:ILE:HG22	1.77	0.65
1:A:382:MET:HE2	1:A:384:LEU:HG	1.78	0.65
1:C:294:LEU:CA	1:D:273:LEU:CD2	2.65	0.65
1:C:294:LEU:HG	1:D:273:LEU:HD21	1.76	0.65
1:C:416:ALA:HB1	1:C:417:PRO:HD2	1.78	0.65
1:C:482:LEU:HD13	1:C:482:LEU:N	2.11	0.65
1:E:307:ASN:CG	2:Q:162:LEU:HD12	2.17	0.65
1:H:482:LEU:HD22	1:H:482:LEU:O	1.96	0.65
1:J:516:VAL:HG23	1:J:517:MET:N	2.09	0.65
1:A:372:ILE:HG12	1:A:413:VAL:CG2	2.24	0.65
1:B:482:LEU:HD13	1:B:482:LEU:N	2.11	0.65
1:C:261:ILE:HG21	1:D:229:ASP:CG	2.10	0.65
1:G:361:LEU:HD21	1:G:372:ILE:HG22	1.77	0.65
1:H:361:LEU:HD21	1:H:372:ILE:HG22	1.77	0.65
1:H:516:VAL:HG23	1:H:517:MET:N	2.09	0.65
1:I:444:GLN:HB3	1:I:499:ILE:HD11	1.76	0.65
1:I:450:TYR:CG	1:I:514:GLN:HA	2.31	0.65
1:J:482:LEU:O	1:J:482:LEU:HD22	1.96	0.65
1:K:490:LEU:HD23	1:K:506:ILE:HD11	1.77	0.65
2:S:111:ILE:HD13	2:S:120:VAL:HG22	1.79	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:307:ASN:CG	2:V:162:LEU:HD12	2.17	0.65
2:X:111:ILE:HD13	2:X:120:VAL:HG22	1.79	0.65
1:A:490:LEU:HD23	1:A:506:ILE:HD11	1.77	0.65
1:C:372:ILE:HG12	1:C:413:VAL:CG2	2.24	0.65
1:C:425:ASP:HA	1:C:428:PHE:CD2	2.31	0.65
1:D:446:PHE:HE2	1:D:503:ARG:HB2	1.61	0.65
1:J:444:GLN:HB3	1:J:499:ILE:HD11	1.76	0.65
1:J:450:TYR:CG	1:J:514:GLN:HA	2.31	0.65
1:L:425:ASP:HA	1:L:428:PHE:CD2	2.31	0.65
2:R:111:ILE:HD13	2:R:120:VAL:HG22	1.79	0.65
1:F:307:ASN:CG	2:R:162:LEU:HD12	2.17	0.65
2:W:111:ILE:HD13	2:W:120:VAL:HG22	1.79	0.65
1:A:354:ASP:C	1:A:381:LYS:HD3	2.17	0.65
1:A:450:TYR:CG	1:A:514:GLN:HA	2.31	0.65
1:A:294:LEU:CG	1:B:273:LEU:HD21	2.27	0.65
1:A:406:MET:HB3	1:B:468:THR:HG23	1.78	0.65
1:C:446:PHE:HE2	1:C:503:ARG:HB2	1.61	0.65
1:F:490:LEU:HD23	1:F:506:ILE:HD11	1.77	0.65
1:F:446:PHE:HE2	1:F:503:ARG:HB2	1.61	0.65
1:G:483:ILE:HG12	1:G:491:ILE:HB	1.78	0.65
1:H:372:ILE:HG12	1:H:413:VAL:CG2	2.24	0.65
1:H:425:ASP:HA	1:H:428:PHE:CD2	2.31	0.65
1:K:416:ALA:HB1	1:K:417:PRO:HD2	1.77	0.65
1:L:347:LYS:HZ1	2:X:104:GLY:CA	2.02	0.65
1:K:343:PHE:HD1	1:L:469:GLY:HA2	1.57	0.65
1:A:307:ASN:CG	2:M:162:LEU:HD12	2.17	0.65
1:G:307:ASN:CG	2:S:162:LEU:HD12	2.17	0.65
2:T:111:ILE:HD13	2:T:120:VAL:HG22	1.79	0.65
2:T:162:LEU:H	2:T:162:LEU:HD23	1.60	0.65
1:C:352:PHE:CE1	1:C:360:ILE:HG22	2.32	0.65
1:F:482:LEU:O	1:F:482:LEU:HD22	1.96	0.65
1:G:372:ILE:HG12	1:G:413:VAL:CG2	2.24	0.65
1:J:352:PHE:CE1	1:J:360:ILE:HG22	2.32	0.65
1:K:450:TYR:CG	1:K:514:GLN:HA	2.31	0.65
2:M:111:ILE:HD13	2:M:120:VAL:HG22	1.79	0.65
1:B:406:MET:HB3	1:C:468:THR:HG23	1.78	0.65
1:E:352:PHE:CE1	1:E:360:ILE:HG22	2.31	0.65
1:D:406:MET:HB3	1:E:468:THR:HG23	1.78	0.65
1:F:354:ASP:C	1:F:381:LYS:HD3	2.17	0.65
1:F:483:ILE:HG12	1:F:491:ILE:HB	1.78	0.65
1:G:352:PHE:CE1	1:G:360:ILE:HG22	2.32	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:294:LEU:CG	1:I:273:LEU:HD21	2.27	0.65
1:H:352:PHE:CE1	1:H:360:ILE:HG22	2.31	0.65
1:H:354:ASP:C	1:H:381:LYS:HD3	2.17	0.65
1:I:352:PHE:CE1	1:I:360:ILE:HG22	2.32	0.65
1:K:354:ASP:C	1:K:381:LYS:HD3	2.17	0.65
1:K:482:LEU:HD22	1:K:482:LEU:O	1.96	0.65
1:L:450:TYR:CG	1:L:514:GLN:HA	2.31	0.65
2:V:111:ILE:HD13	2:V:120:VAL:HG22	1.79	0.65
1:L:307:ASN:CG	2:X:162:LEU:HD12	2.17	0.65
1:B:483:ILE:HG12	1:B:491:ILE:HB	1.78	0.65
1:B:446:PHE:HE2	1:B:503:ARG:HB2	1.61	0.65
1:C:354:ASP:C	1:C:381:LYS:HD3	2.17	0.65
1:D:482:LEU:O	1:D:482:LEU:HD22	1.96	0.65
1:E:354:ASP:C	1:E:381:LYS:HD3	2.17	0.65
1:E:482:LEU:HD22	1:E:482:LEU:O	1.96	0.65
1:E:447:GLN:CB	1:F:508:GLU:OE2	2.42	0.65
1:G:293:ARG:NH1	1:H:272:THR:CG2	2.48	0.65
1:H:293:ARG:NH1	1:I:272:THR:CG2	2.47	0.65
1:J:347:LYS:HZ2	2:V:104:GLY:CA	1.99	0.65
1:J:354:ASP:C	1:J:381:LYS:HD3	2.17	0.65
1:L:352:PHE:CE1	1:L:360:ILE:HG22	2.32	0.65
1:L:354:ASP:C	1:L:381:LYS:HD3	2.17	0.65
1:L:482:LEU:O	1:L:482:LEU:HD22	1.96	0.65
2:U:111:ILE:HD13	2:U:120:VAL:HG22	1.79	0.65
1:G:354:ASP:C	1:G:381:LYS:HD3	2.17	0.65
1:I:294:LEU:HG	1:J:273:LEU:HD21	1.76	0.65
1:J:293:ARG:NH1	1:K:272:THR:CG2	2.48	0.65
1:J:404:LEU:CD1	1:J:417:PRO:HA	2.08	0.65
1:J:294:LEU:CG	1:K:273:LEU:HD21	2.27	0.65
1:L:361:LEU:HD21	1:L:372:ILE:HG22	1.77	0.65
2:Q:111:ILE:HD13	2:Q:120:VAL:HG22	1.79	0.65
1:D:416:ALA:HB1	1:D:417:PRO:HD2	1.77	0.64
1:E:446:PHE:HE2	1:E:503:ARG:HB2	1.61	0.64
1:K:294:LEU:CG	1:L:273:LEU:HD21	2.27	0.64
1:L:382:MET:HE2	1:L:384:LEU:HG	1.78	0.64
2:N:111:ILE:HD13	2:N:120:VAL:HG22	1.79	0.64
1:B:307:ASN:CG	2:N:162:LEU:HD12	2.17	0.64
1:D:307:ASN:CG	2:P:162:LEU:HD12	2.17	0.64
1:B:352:PHE:CE1	1:B:360:ILE:HG22	2.31	0.64
1:B:490:LEU:HD23	1:B:506:ILE:HD11	1.77	0.64
1:C:265:LYS:CG	1:D:245:LEU:CD1	2.71	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:293:ARG:NH1	1:E:272:THR:CG2	2.48	0.64
1:E:372:ILE:HG12	1:E:413:VAL:CG2	2.24	0.64
1:J:382:MET:HE2	1:J:384:LEU:HG	1.79	0.64
1:L:482:LEU:N	1:L:482:LEU:HD13	2.11	0.64
1:A:293:ARG:NH1	1:B:272:THR:CG2	2.48	0.64
1:F:347:LYS:HZ2	2:R:104:GLY:CA	1.98	0.64
1:F:352:PHE:CE1	1:F:360:ILE:HG22	2.32	0.64
1:G:490:LEU:HD23	1:G:506:ILE:HD11	1.77	0.64
1:J:359:THR:O	1:J:363:ILE:HG12	1.98	0.64
1:K:406:MET:HB3	1:L:468:THR:HG23	1.78	0.64
1:L:490:LEU:HD23	1:L:506:ILE:HD11	1.77	0.64
2:P:111:ILE:HD13	2:P:120:VAL:HG22	1.79	0.64
1:B:482:LEU:HD22	1:B:482:LEU:O	1.96	0.64
1:D:354:ASP:C	1:D:381:LYS:HD3	2.17	0.64
1:C:406:MET:HB3	1:D:468:THR:HG23	1.79	0.64
1:J:416:ALA:HB1	1:J:417:PRO:HD2	1.77	0.64
1:K:359:THR:O	1:K:363:ILE:HG12	1.98	0.64
2:O:111:ILE:HD13	2:O:120:VAL:HG22	1.79	0.64
1:I:307:ASN:CG	2:U:162:LEU:HD12	2.17	0.64
1:K:307:ASN:CG	2:W:162:LEU:HD12	2.17	0.64
1:E:483:ILE:HG12	1:E:491:ILE:HB	1.78	0.64
1:K:352:PHE:CE1	1:K:360:ILE:HG22	2.31	0.64
1:A:347:LYS:HZ1	2:M:104:GLY:CA	2.02	0.64
1:A:511:VAL:HB	1:A:512:PRO:HD3	1.80	0.64
1:C:294:LEU:CG	1:D:273:LEU:HD21	2.27	0.64
1:C:343:PHE:N	1:D:470:ASN:CB	2.61	0.64
1:G:359:THR:O	1:G:363:ILE:HG12	1.98	0.64
1:H:343:PHE:N	1:I:470:ASN:CB	2.61	0.64
1:H:406:MET:HB3	1:I:468:THR:HG23	1.78	0.64
1:K:483:ILE:HG12	1:K:491:ILE:HB	1.78	0.64
1:A:482:LEU:O	1:A:482:LEU:HD22	1.96	0.64
1:A:343:PHE:N	1:B:470:ASN:CB	2.61	0.64
1:C:482:LEU:O	1:C:482:LEU:HD22	1.96	0.64
1:E:418:ARG:CD	1:E:481:VAL:HB	2.17	0.64
1:E:490:LEU:HD23	1:E:506:ILE:HD11	1.77	0.64
1:H:359:THR:O	1:H:363:ILE:HG12	1.98	0.64
1:G:343:PHE:HD1	1:H:469:GLY:HA2	1.57	0.64
1:J:343:PHE:N	1:K:470:ASN:CB	2.61	0.64
1:L:511:VAL:HB	1:L:512:PRO:HD3	1.80	0.64
1:C:359:THR:O	1:C:363:ILE:HG12	1.98	0.64
1:F:294:LEU:CG	1:G:273:LEU:HD21	2.27	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:378:VAL:HG12	1:F:417:PRO:HD3	1.80	0.64
1:K:294:LEU:HG	1:L:273:LEU:HD21	1.76	0.64
1:C:293:ARG:NH1	1:D:272:THR:CG2	2.48	0.64
1:D:352:PHE:CE1	1:D:360:ILE:HG22	2.32	0.64
1:D:378:VAL:HG12	1:D:417:PRO:HD3	1.80	0.64
1:G:378:VAL:HG12	1:G:417:PRO:HD3	1.80	0.64
1:I:359:THR:O	1:I:363:ILE:HG12	1.98	0.64
1:B:511:VAL:HB	1:B:512:PRO:HD3	1.80	0.64
1:E:416:ALA:HB1	1:E:417:PRO:HD2	1.77	0.64
1:E:378:VAL:HG12	1:E:417:PRO:HD3	1.79	0.64
1:D:343:PHE:HD1	1:E:469:GLY:HA2	1.57	0.64
1:E:515:GLN:HG2	1:E:515:GLN:O	1.98	0.64
1:F:347:LYS:HZ1	2:R:104:GLY:CA	2.04	0.64
1:I:416:ALA:HB1	1:I:417:PRO:HD2	1.78	0.64
1:D:359:THR:O	1:D:363:ILE:HG12	1.98	0.63
1:G:261:ILE:HG21	1:H:229:ASP:CG	2.10	0.63
1:G:416:ALA:HB1	1:G:417:PRO:HD2	1.77	0.63
1:G:511:VAL:HB	1:G:512:PRO:HD3	1.80	0.63
1:H:465:ALA:N	1:H:475:ILE:HD13	2.14	0.63
2:T:97:TYR:HB2	2:T:161:LEU:HD21	1.81	0.63
1:A:359:THR:O	1:A:363:ILE:HG12	1.98	0.63
1:A:465:ALA:N	1:A:475:ILE:HD13	2.13	0.63
1:A:515:GLN:O	1:A:515:GLN:HG2	1.98	0.63
1:B:355:VAL:O	1:B:381:LYS:HG3	1.98	0.63
1:C:378:VAL:HG12	1:C:417:PRO:HD3	1.80	0.63
1:E:343:PHE:N	1:F:470:ASN:CB	2.61	0.63
1:F:406:MET:HB3	1:G:468:THR:HG23	1.79	0.63
1:G:515:GLN:O	1:G:515:GLN:HG2	1.98	0.63
1:H:343:PHE:CB	1:I:469:GLY:C	2.42	0.63
1:J:465:ALA:N	1:J:475:ILE:HD13	2.13	0.63
1:I:343:PHE:HD1	1:J:469:GLY:HA2	1.57	0.63
1:K:343:PHE:N	1:L:470:ASN:CB	2.61	0.63
1:A:468:THR:HG23	1:L:406:MET:HB3	1.79	0.63
1:C:347:LYS:HZ2	2:O:104:GLY:CA	2.00	0.63
1:C:355:VAL:O	1:C:381:LYS:HG3	1.98	0.63
1:F:343:PHE:N	1:G:470:ASN:CB	2.61	0.63
1:H:361:LEU:CD2	1:H:372:ILE:HB	2.29	0.63
1:H:483:ILE:HG12	1:H:491:ILE:HB	1.78	0.63
1:H:511:VAL:HB	1:H:512:PRO:HD3	1.80	0.63
1:J:361:LEU:CD2	1:J:372:ILE:HB	2.29	0.63
1:K:465:ALA:N	1:K:475:ILE:HD13	2.14	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:511:VAL:HB	1:K:512:PRO:HD3	1.80	0.63
1:K:349:SER:HB2	2:W:102:LYS:H	1.64	0.63
1:A:352:PHE:CE1	1:A:360:ILE:HG22	2.32	0.63
1:B:359:THR:O	1:B:363:ILE:HG12	1.98	0.63
1:E:404:LEU:N	1:E:404:LEU:HD22	2.14	0.63
1:F:511:VAL:HB	1:F:512:PRO:HD3	1.80	0.63
1:G:349:SER:HB2	2:S:102:LYS:H	1.64	0.63
1:G:465:ALA:N	1:G:475:ILE:HD13	2.13	0.63
1:J:515:GLN:O	1:J:515:GLN:HG2	1.98	0.63
1:K:228:ILE:HD11	1:K:275:ARG:HG3	1.81	0.63
1:C:349:SER:HB2	2:O:102:LYS:H	1.64	0.63
2:P:97:TYR:HB2	2:P:161:LEU:HD21	1.81	0.63
2:R:126:LEU:N	2:R:126:LEU:HD13	2.13	0.63
2:S:126:LEU:HD13	2:S:126:LEU:N	2.13	0.63
1:A:261:ILE:HG21	1:B:229:ASP:CG	2.10	0.63
1:A:361:LEU:CD2	1:A:372:ILE:HB	2.29	0.63
1:A:470:ASN:CB	1:L:343:PHE:N	2.61	0.63
1:C:364:LEU:CD1	1:C:391:TRP:HB2	2.29	0.63
1:C:515:GLN:O	1:C:515:GLN:HG2	1.99	0.63
1:E:355:VAL:O	1:E:381:LYS:HG3	1.98	0.63
1:F:359:THR:O	1:F:363:ILE:HG12	1.98	0.63
1:F:404:LEU:N	1:F:404:LEU:HD22	2.14	0.63
1:F:465:ALA:N	1:F:475:ILE:HD13	2.14	0.63
1:I:261:ILE:HG21	1:J:229:ASP:CG	2.10	0.63
1:J:228:ILE:HD11	1:J:275:ARG:HG3	1.81	0.63
1:L:349:SER:HB2	2:X:102:LYS:H	1.64	0.63
1:L:378:VAL:HG12	1:L:417:PRO:HD3	1.80	0.63
1:E:349:SER:HB2	2:Q:102:LYS:H	1.64	0.63
2:S:97:TYR:HB2	2:S:161:LEU:HD21	1.81	0.63
1:H:349:SER:HB2	2:T:102:LYS:H	1.64	0.63
2:X:126:LEU:N	2:X:126:LEU:HD13	2.13	0.63
1:A:378:VAL:HG12	1:A:417:PRO:HD3	1.80	0.63
1:B:294:LEU:HD11	1:C:227:ASN:OD1	1.99	0.63
1:D:404:LEU:N	1:D:404:LEU:HD22	2.14	0.63
1:H:378:VAL:HG12	1:H:417:PRO:HD3	1.79	0.63
1:I:228:ILE:HD11	1:I:275:ARG:HG3	1.81	0.63
1:J:378:VAL:HG12	1:J:417:PRO:HD3	1.80	0.63
1:J:343:PHE:HD1	1:K:469:GLY:HA2	1.57	0.63
1:L:515:GLN:O	1:L:515:GLN:HG2	1.99	0.63
2:N:126:LEU:N	2:N:126:LEU:HD13	2.13	0.63
2:U:97:TYR:HB2	2:U:161:LEU:HD21	1.81	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:294:LEU:HD11	1:B:227:ASN:OD1	1.99	0.63
1:C:347:LYS:HZ1	2:O:104:GLY:CA	2.02	0.63
1:E:293:ARG:NH1	1:F:272:THR:CG2	2.47	0.63
1:E:294:LEU:HD11	1:F:227:ASN:OD1	1.99	0.63
1:E:361:LEU:CD2	1:E:372:ILE:HB	2.29	0.63
1:F:361:LEU:CD2	1:F:372:ILE:HB	2.29	0.63
1:G:343:PHE:N	1:H:470:ASN:CB	2.61	0.63
1:H:515:GLN:O	1:H:515:GLN:HG2	1.98	0.63
1:I:511:VAL:HB	1:I:512:PRO:HD3	1.80	0.63
1:I:343:PHE:N	1:J:470:ASN:CB	2.61	0.63
2:Q:126:LEU:N	2:Q:126:LEU:HD13	2.13	0.63
2:T:126:LEU:N	2:T:126:LEU:HD13	2.13	0.63
1:B:343:PHE:N	1:C:470:ASN:CB	2.61	0.63
1:B:347:LYS:HZ2	2:N:104:GLY:CA	1.98	0.63
1:B:361:LEU:CD2	1:B:372:ILE:HB	2.29	0.63
1:B:378:VAL:HG12	1:B:417:PRO:HD3	1.79	0.63
1:B:465:ALA:N	1:B:475:ILE:HD13	2.14	0.63
1:C:294:LEU:HD11	1:D:227:ASN:OD1	1.99	0.63
1:C:460:LEU:HA	1:C:463:ASP:OD1	1.99	0.63
1:C:496:ARG:O	1:C:499:ILE:HG22	1.99	0.63
1:C:511:VAL:HB	1:C:512:PRO:HD3	1.80	0.63
1:D:294:LEU:HD11	1:E:227:ASN:OD1	1.99	0.63
1:D:343:PHE:N	1:E:470:ASN:CB	2.61	0.63
1:D:364:LEU:CD1	1:D:391:TRP:HB2	2.29	0.63
1:D:496:ARG:O	1:D:499:ILE:HG22	1.99	0.63
1:E:359:THR:O	1:E:363:ILE:HG12	1.98	0.63
1:E:465:ALA:N	1:E:475:ILE:HD13	2.14	0.63
1:E:294:LEU:CG	1:F:273:LEU:HD21	2.27	0.63
1:F:515:GLN:HG2	1:F:515:GLN:O	1.99	0.63
1:G:404:LEU:N	1:G:404:LEU:HD22	2.14	0.63
1:I:355:VAL:O	1:I:381:LYS:HG3	1.98	0.63
1:I:498:VAL:O	1:I:502:PHE:HD1	1.82	0.63
1:J:257:HIS:CD2	1:K:232:LYS:O	2.52	0.63
1:L:228:ILE:HD11	1:L:275:ARG:HG3	1.81	0.63
1:L:361:LEU:CD2	1:L:372:ILE:HB	2.29	0.63
2:O:97:TYR:HB2	2:O:161:LEU:HD21	1.81	0.63
2:Q:97:TYR:HB2	2:Q:161:LEU:HD21	1.81	0.63
1:A:349:SER:HB2	2:M:102:LYS:H	1.64	0.63
1:H:391:TRP:O	1:H:395:LEU:HG	1.99	0.63
1:H:496:ARG:O	1:H:499:ILE:HG22	1.99	0.63
1:I:257:HIS:CD2	1:J:232:LYS:O	2.52	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:465:ALA:N	1:I:475:ILE:HD13	2.14	0.63
1:J:498:VAL:O	1:J:502:PHE:HD1	1.82	0.63
1:K:515:GLN:O	1:K:515:GLN:HG2	1.98	0.63
1:L:359:THR:O	1:L:363:ILE:HG12	1.98	0.63
1:L:364:LEU:CD1	1:L:391:TRP:HB2	2.29	0.63
1:L:465:ALA:N	1:L:475:ILE:HD13	2.14	0.63
2:M:126:LEU:N	2:M:126:LEU:HD13	2.13	0.63
2:O:126:LEU:N	2:O:126:LEU:HD13	2.13	0.63
1:A:496:ARG:O	1:A:499:ILE:HG22	1.99	0.62
1:B:498:VAL:O	1:B:502:PHE:HD1	1.82	0.62
1:C:404:LEU:N	1:C:404:LEU:HD22	2.14	0.62
1:C:465:ALA:N	1:C:475:ILE:HD13	2.14	0.62
1:D:361:LEU:CD2	1:D:372:ILE:HB	2.29	0.62
1:D:465:ALA:N	1:D:475:ILE:HD13	2.13	0.62
1:F:418:ARG:CD	1:F:481:VAL:HB	2.17	0.62
1:F:294:LEU:HD11	1:G:227:ASN:OD1	1.99	0.62
1:H:228:ILE:HD11	1:H:275:ARG:HG3	1.81	0.62
1:I:378:VAL:HG12	1:I:417:PRO:HD3	1.80	0.62
1:J:355:VAL:O	1:J:381:LYS:HG3	1.98	0.62
1:A:227:ASN:OD1	1:L:294:LEU:HD11	1.99	0.62
1:L:355:VAL:O	1:L:381:LYS:HG3	1.98	0.62
1:A:498:VAL:O	1:A:502:PHE:HD1	1.82	0.62
1:B:228:ILE:HD11	1:B:275:ARG:HG3	1.81	0.62
1:D:408:GLN:CG	1:D:413:VAL:HG12	2.30	0.62
1:E:511:VAL:HB	1:E:512:PRO:HD3	1.80	0.62
1:F:496:ARG:O	1:F:499:ILE:HG22	1.99	0.62
1:G:294:LEU:HG	1:H:273:LEU:HD21	1.76	0.62
1:H:355:VAL:O	1:H:381:LYS:HG3	1.98	0.62
1:J:408:GLN:CG	1:J:413:VAL:HG12	2.30	0.62
1:I:406:MET:HB3	1:J:468:THR:HG23	1.79	0.62
1:K:257:HIS:CD2	1:L:232:LYS:O	2.52	0.62
2:V:126:LEU:N	2:V:126:LEU:HD13	2.13	0.62
1:A:228:ILE:HD11	1:A:275:ARG:HG3	1.81	0.62
1:A:408:GLN:CG	1:A:413:VAL:HG12	2.30	0.62
1:B:460:LEU:HA	1:B:463:ASP:OD1	1.99	0.62
1:D:460:LEU:HA	1:D:463:ASP:OD1	1.99	0.62
1:F:349:SER:HB2	2:R:102:LYS:H	1.64	0.62
1:H:404:LEU:HD22	1:H:404:LEU:N	2.14	0.62
1:H:257:HIS:CD2	1:I:232:LYS:O	2.52	0.62
2:U:126:LEU:N	2:U:126:LEU:HD13	2.13	0.62
1:B:515:GLN:O	1:B:515:GLN:HG2	1.98	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:496:ARG:O	1:E:499:ILE:HG22	1.99	0.62
1:F:355:VAL:O	1:F:381:LYS:HG3	1.98	0.62
1:G:460:LEU:HA	1:G:463:ASP:OD1	1.99	0.62
1:I:496:ARG:O	1:I:499:ILE:HG22	1.99	0.62
1:J:406:MET:HB3	1:K:468:THR:HG23	1.78	0.62
1:A:391:TRP:O	1:A:395:LEU:HG	1.99	0.62
1:C:391:TRP:O	1:C:395:LEU:HG	1.99	0.62
1:D:515:GLN:O	1:D:515:GLN:HG2	1.98	0.62
1:E:257:HIS:CD2	1:F:232:LYS:O	2.52	0.62
1:F:257:HIS:CD2	1:G:232:LYS:O	2.52	0.62
1:E:406:MET:HB3	1:F:468:THR:HG23	1.78	0.62
1:G:408:GLN:CG	1:G:413:VAL:HG12	2.30	0.62
1:H:460:LEU:HA	1:H:463:ASP:OD1	1.99	0.62
1:I:408:GLN:CG	1:I:413:VAL:HG12	2.30	0.62
1:J:391:TRP:O	1:J:395:LEU:HG	1.99	0.62
1:K:294:LEU:HD11	1:L:227:ASN:OD1	1.99	0.62
1:K:496:ARG:O	1:K:499:ILE:HG22	1.99	0.62
1:A:483:ILE:CD1	1:A:491:ILE:HD12	2.30	0.62
1:B:348:ILE:HG22	1:B:349:SER:N	2.15	0.62
1:B:404:LEU:N	1:B:404:LEU:HD22	2.14	0.62
1:F:391:TRP:O	1:F:395:LEU:HG	1.99	0.62
1:G:294:LEU:HD11	1:H:227:ASN:OD1	1.99	0.62
1:G:391:TRP:O	1:G:395:LEU:HG	1.99	0.62
1:J:511:VAL:HB	1:J:512:PRO:HD3	1.80	0.62
1:K:348:ILE:HG22	1:K:349:SER:N	2.15	0.62
1:K:355:VAL:O	1:K:381:LYS:HG3	1.98	0.62
1:K:483:ILE:CD1	1:K:491:ILE:HD12	2.30	0.62
2:N:97:TYR:HB2	2:N:161:LEU:HD21	1.81	0.62
1:A:364:LEU:CD1	1:A:391:TRP:HB2	2.29	0.62
1:B:483:ILE:CD1	1:B:491:ILE:HD12	2.30	0.62
1:B:257:HIS:CD2	1:C:232:LYS:O	2.52	0.62
1:C:361:LEU:CD2	1:C:372:ILE:HB	2.29	0.62
1:C:498:VAL:O	1:C:502:PHE:HD1	1.82	0.62
1:D:355:VAL:O	1:D:381:LYS:HG3	1.98	0.62
1:F:498:VAL:O	1:F:502:PHE:HD1	1.82	0.62
1:G:228:ILE:HD11	1:G:275:ARG:HG3	1.81	0.62
1:G:361:LEU:CD2	1:G:372:ILE:HB	2.29	0.62
1:G:496:ARG:O	1:G:499:ILE:HG22	1.99	0.62
1:H:294:LEU:HD11	1:I:227:ASN:OD1	1.99	0.62
1:H:364:LEU:CD1	1:H:391:TRP:HB2	2.29	0.62
1:I:361:LEU:CD2	1:I:372:ILE:HB	2.29	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:460:LEU:HA	1:I:463:ASP:OD1	1.99	0.62
1:J:460:LEU:HA	1:J:463:ASP:OD1	1.99	0.62
1:K:460:LEU:HA	1:K:463:ASP:OD1	1.99	0.62
1:L:483:ILE:CD1	1:L:491:ILE:HD12	2.30	0.62
1:L:496:ARG:O	1:L:499:ILE:HG22	1.99	0.62
2:P:126:LEU:HD13	2:P:126:LEU:N	2.13	0.62
1:J:349:SER:HB2	2:V:102:LYS:H	1.64	0.62
2:X:128:GLN:HG3	2:X:129:ASN:H	1.65	0.62
1:F:460:LEU:HA	1:F:463:ASP:OD1	1.99	0.62
1:G:406:MET:HB3	1:H:468:THR:HG23	1.78	0.62
1:I:515:GLN:O	1:I:515:GLN:HG2	1.99	0.62
1:J:348:ILE:HG22	1:J:349:SER:N	2.15	0.62
1:J:483:ILE:CD1	1:J:491:ILE:HD12	2.30	0.62
1:L:408:GLN:CG	1:L:413:VAL:HG12	2.30	0.62
1:L:498:VAL:O	1:L:502:PHE:HD1	1.82	0.62
2:S:128:GLN:HG3	2:S:129:ASN:H	1.65	0.62
1:A:355:VAL:O	1:A:381:LYS:HG3	1.98	0.62
1:B:347:LYS:HZ1	2:N:104:GLY:CA	2.04	0.62
1:B:496:ARG:O	1:B:499:ILE:HG22	1.99	0.62
1:C:228:ILE:HD11	1:C:275:ARG:HG3	1.81	0.62
1:C:273:LEU:O	1:C:291:LEU:HD23	2.00	0.62
1:C:408:GLN:CG	1:C:413:VAL:HG12	2.30	0.62
1:G:355:VAL:O	1:G:381:LYS:HG3	1.98	0.62
1:G:257:HIS:CD2	1:H:232:LYS:O	2.52	0.62
1:I:391:TRP:O	1:I:395:LEU:HG	1.99	0.62
1:K:391:TRP:O	1:K:395:LEU:HG	1.99	0.62
1:K:498:VAL:O	1:K:502:PHE:HD1	1.82	0.62
1:A:232:LYS:O	1:L:257:HIS:CD2	2.52	0.62
1:L:348:ILE:HG22	1:L:349:SER:N	2.15	0.62
2:P:128:GLN:HG3	2:P:129:ASN:H	1.65	0.62
2:V:97:TYR:HB2	2:V:161:LEU:HD21	1.81	0.62
1:A:512:PRO:HA	1:A:515:GLN:NE2	2.15	0.62
1:B:293:ARG:NH1	1:C:272:THR:CG2	2.47	0.62
1:B:408:GLN:CG	1:B:413:VAL:HG12	2.30	0.62
1:B:424:LYS:HD3	1:B:428:PHE:CE1	2.35	0.62
1:C:257:HIS:CD2	1:D:232:LYS:O	2.52	0.62
1:D:391:TRP:O	1:D:395:LEU:HG	1.99	0.62
1:E:261:ILE:HG21	1:F:229:ASP:CG	2.10	0.62
1:E:408:GLN:CG	1:E:413:VAL:HG12	2.30	0.62
1:E:498:VAL:O	1:E:502:PHE:HD1	1.82	0.62
1:F:408:GLN:CG	1:F:413:VAL:HG12	2.30	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:273:LEU:O	1:H:291:LEU:HD23	2.00	0.62
1:H:498:VAL:O	1:H:502:PHE:HD1	1.82	0.62
1:K:378:VAL:HG12	1:K:417:PRO:HD3	1.79	0.62
1:K:512:PRO:HA	1:K:515:GLN:NE2	2.15	0.62
1:L:460:LEU:HA	1:L:463:ASP:OD1	1.99	0.62
2:R:97:TYR:HB2	2:R:161:LEU:HD21	1.81	0.62
2:T:128:GLN:HG3	2:T:129:ASN:H	1.65	0.62
1:A:348:ILE:HG22	1:A:349:SER:N	2.15	0.61
1:A:404:LEU:HD22	1:A:404:LEU:N	2.14	0.61
1:A:424:LYS:HD3	1:A:428:PHE:CE1	2.35	0.61
1:C:483:ILE:CD1	1:C:491:ILE:HD12	2.30	0.61
1:D:257:HIS:CD2	1:E:232:LYS:O	2.52	0.61
1:D:348:ILE:HG22	1:D:349:SER:N	2.15	0.61
1:D:511:VAL:HB	1:D:512:PRO:HD3	1.80	0.61
1:E:228:ILE:HD11	1:E:275:ARG:HG3	1.81	0.61
1:E:348:ILE:HG22	1:E:349:SER:N	2.15	0.61
1:F:228:ILE:HD11	1:F:275:ARG:HG3	1.81	0.61
1:G:228:ILE:HD13	1:G:277:LEU:HD21	1.82	0.61
1:I:349:SER:HB2	2:U:102:LYS:H	1.64	0.61
1:J:294:LEU:HD11	1:K:227:ASN:OD1	1.99	0.61
1:K:361:LEU:CD2	1:K:372:ILE:HB	2.29	0.61
1:L:273:LEU:O	1:L:291:LEU:HD23	2.00	0.61
2:M:128:GLN:HG3	2:M:129:ASN:H	1.65	0.61
2:O:128:GLN:HG3	2:O:129:ASN:H	1.65	0.61
1:C:348:ILE:HG22	1:C:349:SER:N	2.15	0.61
1:D:228:ILE:HD11	1:D:275:ARG:HG3	1.81	0.61
1:G:418:ARG:CD	1:G:481:VAL:HB	2.17	0.61
1:H:294:LEU:HG	1:I:273:LEU:HD21	1.76	0.61
1:I:273:LEU:O	1:I:291:LEU:HD23	2.00	0.61
1:I:348:ILE:HG22	1:I:349:SER:N	2.15	0.61
1:J:259:HIS:CD2	1:J:301:ILE:HG23	2.36	0.61
1:J:364:LEU:CD1	1:J:391:TRP:HB2	2.29	0.61
2:M:97:TYR:HB2	2:M:161:LEU:HD21	1.81	0.61
1:A:460:LEU:HA	1:A:463:ASP:OD1	1.99	0.61
1:B:259:HIS:CD2	1:B:301:ILE:HG23	2.36	0.61
1:B:261:ILE:HG21	1:C:229:ASP:CG	2.10	0.61
1:C:424:LYS:HD3	1:C:428:PHE:CE1	2.35	0.61
1:D:259:HIS:CD2	1:D:301:ILE:HG23	2.36	0.61
1:H:259:HIS:CD2	1:H:301:ILE:HG23	2.36	0.61
1:I:483:ILE:CD1	1:I:491:ILE:HD12	2.30	0.61
1:L:404:LEU:N	1:L:404:LEU:HD22	2.14	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:424:LYS:HD3	1:L:428:PHE:CE1	2.35	0.61
1:A:257:HIS:CD2	1:B:232:LYS:O	2.52	0.61
1:D:349:SER:HB2	2:P:102:LYS:H	1.64	0.61
1:E:391:TRP:O	1:E:395:LEU:HG	1.99	0.61
1:E:460:LEU:HA	1:E:463:ASP:OD1	1.99	0.61
1:F:228:ILE:HD13	1:F:277:LEU:HD21	1.82	0.61
1:F:348:ILE:HG22	1:F:349:SER:N	2.15	0.61
1:G:353:GLN:CG	2:S:98:VAL:O	2.49	0.61
1:H:389:VAL:HG23	1:I:376:ASP:OD2	2.01	0.61
1:J:404:LEU:N	1:J:404:LEU:HD22	2.14	0.61
1:J:496:ARG:O	1:J:499:ILE:HG22	1.99	0.61
1:K:273:LEU:O	1:K:291:LEU:HD23	2.00	0.61
1:K:404:LEU:N	1:K:404:LEU:HD22	2.14	0.61
1:K:408:GLN:CG	1:K:413:VAL:HG12	2.30	0.61
1:L:391:TRP:O	1:L:395:LEU:HG	1.99	0.61
2:R:111:ILE:HD12	2:R:111:ILE:N	2.16	0.61
2:W:126:LEU:HD13	2:W:126:LEU:N	2.13	0.61
1:B:353:GLN:CG	2:N:98:VAL:O	2.49	0.61
1:D:483:ILE:CD1	1:D:491:ILE:HD12	2.30	0.61
1:E:273:LEU:O	1:E:291:LEU:HD23	2.00	0.61
1:E:347:LYS:HZ1	2:Q:104:GLY:CA	2.05	0.61
1:F:364:LEU:CD1	1:F:391:TRP:HB2	2.29	0.61
1:G:348:ILE:HG22	1:G:349:SER:N	2.15	0.61
1:H:348:ILE:HG22	1:H:349:SER:N	2.15	0.61
1:H:408:GLN:CG	1:H:413:VAL:HG12	2.30	0.61
1:K:226:THR:HB	1:K:269:LEU:HD12	1.83	0.61
1:K:424:LYS:HD3	1:K:428:PHE:CE1	2.35	0.61
2:N:111:ILE:HD12	2:N:111:ILE:N	2.16	0.61
2:S:111:ILE:N	2:S:111:ILE:HD12	2.16	0.61
2:U:111:ILE:HD12	2:U:111:ILE:N	2.16	0.61
2:W:128:GLN:HG3	2:W:129:ASN:H	1.65	0.61
2:X:111:ILE:N	2:X:111:ILE:HD12	2.16	0.61
1:B:391:TRP:O	1:B:395:LEU:HG	1.99	0.61
1:D:228:ILE:HD13	1:D:277:LEU:HD21	1.82	0.61
1:E:353:GLN:CG	2:Q:98:VAL:O	2.49	0.61
1:E:475:ILE:HG23	1:E:476:SER:N	2.16	0.61
1:F:273:LEU:O	1:F:291:LEU:HD23	2.00	0.61
1:G:498:VAL:O	1:G:502:PHE:HD1	1.82	0.61
1:G:512:PRO:HA	1:G:515:GLN:NE2	2.15	0.61
1:H:475:ILE:HG23	1:H:476:SER:N	2.16	0.61
1:I:512:PRO:HA	1:I:515:GLN:NE2	2.15	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:389:VAL:HG23	1:K:376:ASP:OD2	2.01	0.61
1:L:512:PRO:HA	1:L:515:GLN:NE2	2.15	0.61
1:D:353:GLN:CG	2:P:98:VAL:O	2.49	0.61
2:Q:111:ILE:HD12	2:Q:111:ILE:N	2.16	0.61
2:R:128:GLN:HG3	2:R:129:ASN:H	1.65	0.61
2:T:111:ILE:HD12	2:T:111:ILE:N	2.16	0.61
2:X:97:TYR:HB2	2:X:161:LEU:HD21	1.81	0.61
1:A:226:THR:HB	1:A:269:LEU:HD12	1.83	0.61
1:C:228:ILE:HD13	1:C:277:LEU:HD21	1.82	0.61
1:D:424:LYS:HD3	1:D:428:PHE:CE1	2.35	0.61
1:E:389:VAL:HG23	1:F:376:ASP:OD2	2.01	0.61
1:F:512:PRO:HA	1:F:515:GLN:NE2	2.15	0.61
1:I:294:LEU:HD11	1:J:227:ASN:OD1	1.99	0.61
1:I:404:LEU:HD22	1:I:404:LEU:N	2.14	0.61
1:J:226:THR:HB	1:J:269:LEU:HD12	1.83	0.61
1:B:349:SER:HB2	2:N:102:LYS:H	1.64	0.61
2:O:111:ILE:N	2:O:111:ILE:HD12	2.16	0.61
2:V:111:ILE:HD12	2:V:111:ILE:N	2.16	0.61
1:A:265:LYS:HG3	1:B:245:LEU:CD1	2.31	0.61
1:C:265:LYS:HG3	1:D:245:LEU:CD1	2.31	0.61
1:G:273:LEU:O	1:G:291:LEU:HD23	2.00	0.61
1:G:389:VAL:HG23	1:H:376:ASP:OD2	2.01	0.61
1:H:228:ILE:HD13	1:H:277:LEU:HD21	1.82	0.61
1:H:399:MET:HB3	1:H:404:LEU:O	2.01	0.61
1:H:483:ILE:CD1	1:H:491:ILE:HD12	2.30	0.61
1:H:512:PRO:HA	1:H:515:GLN:NE2	2.15	0.61
1:J:294:LEU:HG	1:K:273:LEU:HD21	1.76	0.61
1:J:512:PRO:HA	1:J:515:GLN:NE2	2.15	0.61
1:L:226:THR:HB	1:L:269:LEU:HD12	1.83	0.61
2:W:111:ILE:HD12	2:W:111:ILE:N	2.16	0.61
1:A:273:LEU:O	1:A:291:LEU:HD23	2.00	0.61
1:B:226:THR:HB	1:B:269:LEU:HD12	1.83	0.61
1:B:294:LEU:HG	1:C:273:LEU:HD21	1.76	0.61
1:D:273:LEU:O	1:D:291:LEU:HD23	2.00	0.61
1:F:501:LYS:O	1:F:505:LEU:HD23	2.01	0.61
1:G:259:HIS:CD2	1:G:301:ILE:HG23	2.36	0.61
1:F:343:PHE:HD1	1:G:469:GLY:HA2	1.57	0.61
1:H:424:LYS:HD3	1:H:428:PHE:CE1	2.35	0.61
1:H:418:ARG:CD	1:H:481:VAL:HB	2.17	0.61
1:J:265:LYS:HG3	1:K:245:LEU:CD1	2.31	0.61
1:K:259:HIS:CD2	1:K:301:ILE:HG23	2.36	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:501:LYS:O	1:L:505:LEU:HD23	2.01	0.61
2:Q:128:GLN:HG3	2:Q:129:ASN:H	1.65	0.61
2:W:97:TYR:HB2	2:W:161:LEU:HD21	1.81	0.61
1:A:399:MET:HB3	1:A:404:LEU:O	2.01	0.61
1:A:501:LYS:O	1:A:505:LEU:HD23	2.01	0.61
1:B:364:LEU:CD1	1:B:391:TRP:HB2	2.29	0.61
1:D:475:ILE:HG23	1:D:476:SER:N	2.16	0.61
1:G:364:LEU:CD1	1:G:391:TRP:HB2	2.29	0.61
1:G:424:LYS:HD3	1:G:428:PHE:CE1	2.35	0.61
1:G:475:ILE:HG23	1:G:476:SER:N	2.16	0.61
1:H:501:LYS:O	1:H:505:LEU:HD23	2.01	0.61
1:I:399:MET:HB3	1:I:404:LEU:O	2.01	0.61
1:L:259:HIS:CD2	1:L:301:ILE:HG23	2.35	0.61
2:U:128:GLN:HG3	2:U:129:ASN:H	1.65	0.61
1:A:259:HIS:CD2	1:A:301:ILE:HG23	2.36	0.60
1:C:512:PRO:HA	1:C:515:GLN:NE2	2.15	0.60
1:D:498:VAL:O	1:D:502:PHE:HD1	1.82	0.60
1:F:259:HIS:CD2	1:F:301:ILE:HG23	2.35	0.60
1:F:399:MET:HB3	1:F:404:LEU:O	2.01	0.60
1:F:424:LYS:HD3	1:F:428:PHE:CE1	2.35	0.60
1:G:294:LEU:CD1	1:H:273:LEU:CD2	2.80	0.60
1:I:259:HIS:CD2	1:I:301:ILE:HG23	2.35	0.60
1:I:353:GLN:CG	2:U:98:VAL:O	2.49	0.60
1:I:364:LEU:CD1	1:I:391:TRP:HB2	2.29	0.60
1:J:273:LEU:O	1:J:291:LEU:HD23	2.00	0.60
1:J:424:LYS:HD3	1:J:428:PHE:CE1	2.35	0.60
1:K:228:ILE:HD13	1:K:277:LEU:HD21	1.82	0.60
1:C:361:LEU:HD21	1:C:372:ILE:CG2	2.32	0.60
1:D:361:LEU:HD21	1:D:372:ILE:CG2	2.32	0.60
1:E:259:HIS:CD2	1:E:301:ILE:HG23	2.36	0.60
1:F:294:LEU:CD1	1:G:273:LEU:CD2	2.80	0.60
1:J:399:MET:HB3	1:J:404:LEU:O	2.01	0.60
1:K:361:LEU:HD21	1:K:372:ILE:CG2	2.32	0.60
1:K:501:LYS:O	1:K:505:LEU:HD23	2.01	0.60
1:L:228:ILE:HD13	1:L:277:LEU:HD21	1.82	0.60
1:K:265:LYS:HG3	1:L:245:LEU:CD1	2.31	0.60
2:P:111:ILE:N	2:P:111:ILE:HD12	2.16	0.60
1:L:353:GLN:CG	2:X:98:VAL:O	2.49	0.60
1:A:294:LEU:CA	1:B:273:LEU:CD2	2.65	0.60
1:B:501:LYS:O	1:B:505:LEU:HD23	2.01	0.60
1:E:424:LYS:HD3	1:E:428:PHE:CE1	2.35	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:483:ILE:CD1	1:E:491:ILE:HD12	2.30	0.60
1:H:353:GLN:CG	2:T:98:VAL:O	2.49	0.60
1:I:226:THR:HB	1:I:269:LEU:HD12	1.83	0.60
1:H:265:LYS:HG3	1:I:245:LEU:CD1	2.31	0.60
1:I:418:ARG:CD	1:I:481:VAL:HB	2.17	0.60
1:J:361:LEU:HD21	1:J:372:ILE:CG2	2.32	0.60
1:L:361:LEU:HD21	1:L:372:ILE:CG2	2.32	0.60
1:A:228:ILE:HD13	1:A:277:LEU:HD21	1.82	0.60
1:B:228:ILE:HD13	1:B:277:LEU:HD21	1.82	0.60
1:B:294:LEU:CD1	1:C:273:LEU:CD2	2.79	0.60
1:C:353:GLN:CG	2:O:98:VAL:O	2.49	0.60
1:D:501:LYS:O	1:D:505:LEU:HD23	2.01	0.60
1:D:512:PRO:HA	1:D:515:GLN:NE2	2.15	0.60
1:E:512:PRO:HA	1:E:515:GLN:NE2	2.15	0.60
1:E:265:LYS:HG3	1:F:245:LEU:CD1	2.31	0.60
1:G:343:PHE:CB	1:H:469:GLY:C	2.42	0.60
1:G:483:ILE:CD1	1:G:491:ILE:HD12	2.30	0.60
1:H:343:PHE:HD1	1:I:469:GLY:HA2	1.57	0.60
1:J:228:ILE:HD13	1:J:277:LEU:HD21	1.82	0.60
1:J:458:SER:O	1:J:462:LEU:HG	2.02	0.60
1:K:389:VAL:HG23	1:L:376:ASP:OD2	2.01	0.60
1:A:353:GLN:CG	2:M:98:VAL:O	2.49	0.60
1:B:512:PRO:HA	1:B:515:GLN:NE2	2.15	0.60
1:C:226:THR:HB	1:C:269:LEU:HD12	1.83	0.60
1:C:294:LEU:CD1	1:D:273:LEU:CD2	2.80	0.60
1:C:259:HIS:CD2	1:C:301:ILE:HG23	2.35	0.60
1:C:399:MET:HB3	1:C:404:LEU:O	2.01	0.60
1:D:396:ASP:OD2	1:E:467:THR:CG2	2.41	0.60
1:D:265:LYS:HG3	1:E:245:LEU:CD1	2.31	0.60
1:F:265:LYS:HG3	1:G:245:LEU:CD1	2.31	0.60
1:G:458:SER:O	1:G:462:LEU:HG	2.02	0.60
1:H:294:LEU:CD1	1:I:273:LEU:CD2	2.79	0.60
1:I:424:LYS:HD3	1:I:428:PHE:CE1	2.35	0.60
1:J:353:GLN:CG	2:V:98:VAL:O	2.49	0.60
1:J:501:LYS:O	1:J:505:LEU:HD23	2.01	0.60
1:B:273:LEU:O	1:B:291:LEU:HD23	2.00	0.60
1:C:501:LYS:O	1:C:505:LEU:HD23	2.01	0.60
1:E:294:LEU:CD1	1:F:273:LEU:CD2	2.79	0.60
1:E:361:LEU:HD21	1:E:372:ILE:CG2	2.32	0.60
1:E:364:LEU:CD1	1:E:391:TRP:HB2	2.29	0.60
1:F:389:VAL:HG23	1:G:376:ASP:OD2	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:128:GLN:HG3	2:N:129:ASN:H	1.65	0.60
1:B:361:LEU:HD21	1:B:372:ILE:CG2	2.32	0.60
1:F:361:LEU:HD21	1:F:372:ILE:CG2	2.32	0.60
1:H:226:THR:HB	1:H:269:LEU:HD12	1.83	0.60
1:I:294:LEU:CD1	1:J:273:LEU:CD2	2.80	0.60
1:I:475:ILE:HG23	1:I:476:SER:N	2.16	0.60
1:K:353:GLN:CG	2:W:98:VAL:O	2.49	0.60
2:V:128:GLN:HG3	2:V:129:ASN:H	1.65	0.60
1:A:242:LEU:HD12	1:A:243:ALA:N	2.17	0.60
1:A:475:ILE:HG23	1:A:476:SER:N	2.16	0.60
1:E:228:ILE:HD13	1:E:277:LEU:HD21	1.82	0.60
1:D:447:GLN:HE22	1:E:505:LEU:HD13	1.67	0.60
1:F:399:MET:HA	1:F:403:ASN:HB2	1.84	0.60
1:H:458:SER:O	1:H:462:LEU:HG	2.02	0.60
1:G:406:MET:CB	1:H:468:THR:CG2	2.79	0.60
1:J:382:MET:HE1	1:J:384:LEU:CG	2.31	0.60
1:J:418:ARG:CD	1:J:481:VAL:HB	2.17	0.60
1:B:399:MET:HB3	1:B:404:LEU:O	2.01	0.60
1:B:458:SER:O	1:B:462:LEU:HG	2.02	0.60
1:B:475:ILE:HG23	1:B:476:SER:N	2.16	0.60
1:B:447:GLN:HE22	1:C:505:LEU:HD13	1.67	0.60
1:C:389:VAL:HG23	1:D:376:ASP:OD2	2.01	0.60
1:D:399:MET:HB3	1:D:404:LEU:O	2.01	0.60
1:E:399:MET:HA	1:E:403:ASN:HB2	1.84	0.60
1:F:353:GLN:CG	2:R:98:VAL:O	2.49	0.60
1:F:475:ILE:HG23	1:F:476:SER:N	2.16	0.60
1:G:399:MET:HA	1:G:403:ASN:HB2	1.84	0.60
1:H:447:GLN:HE22	1:I:505:LEU:HD13	1.67	0.60
1:I:361:LEU:HD21	1:I:372:ILE:CG2	2.32	0.60
2:M:111:ILE:HD12	2:M:111:ILE:N	2.16	0.60
1:A:347:LYS:HZ2	2:M:104:GLY:CA	2.00	0.60
1:A:376:ASP:OD2	1:L:389:VAL:HG23	2.01	0.60
1:C:242:LEU:HD12	1:C:243:ALA:N	2.17	0.60
1:E:293:ARG:HH11	1:F:272:THR:HG21	1.64	0.60
1:F:483:ILE:CD1	1:F:491:ILE:HD12	2.30	0.60
1:F:447:GLN:HE22	1:G:505:LEU:HD13	1.67	0.60
1:I:501:LYS:O	1:I:505:LEU:HD23	2.01	0.60
1:D:294:LEU:CD1	1:E:273:LEU:CD2	2.80	0.59
1:E:399:MET:HB3	1:E:404:LEU:O	2.01	0.59
1:G:226:THR:HB	1:G:269:LEU:HD12	1.83	0.59
1:G:399:MET:HB3	1:G:404:LEU:O	2.01	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:458:SER:O	1:I:462:LEU:HG	2.02	0.59
1:K:399:MET:HB3	1:K:404:LEU:O	2.01	0.59
1:L:475:ILE:HG23	1:L:476:SER:N	2.16	0.59
1:A:396:ASP:OD2	1:B:467:THR:CG2	2.41	0.59
1:A:458:SER:O	1:A:462:LEU:HG	2.02	0.59
1:A:389:VAL:HG23	1:B:376:ASP:OD2	2.01	0.59
1:B:265:LYS:HG3	1:C:245:LEU:CD1	2.31	0.59
1:D:226:THR:HB	1:D:269:LEU:HD12	1.83	0.59
1:E:458:SER:O	1:E:462:LEU:HG	2.02	0.59
1:G:242:LEU:HD12	1:G:243:ALA:N	2.17	0.59
1:H:242:LEU:HD12	1:H:243:ALA:N	2.17	0.59
1:H:399:MET:HA	1:H:403:ASN:HB2	1.84	0.59
1:I:228:ILE:HD13	1:I:277:LEU:HD21	1.82	0.59
1:I:389:VAL:HG23	1:J:376:ASP:OD2	2.01	0.59
1:K:418:ARG:CD	1:K:481:VAL:HB	2.17	0.59
1:K:294:LEU:CD1	1:L:273:LEU:CD2	2.79	0.59
1:A:273:LEU:CD2	1:L:294:LEU:CD1	2.80	0.59
1:A:294:LEU:CD1	1:B:273:LEU:CD2	2.80	0.59
1:B:256:GLN:NE2	1:C:231:ARG:CD	2.48	0.59
1:D:399:MET:HA	1:D:403:ASN:HB2	1.84	0.59
1:G:361:LEU:HD21	1:G:372:ILE:CG2	2.32	0.59
1:G:265:LYS:HG3	1:H:245:LEU:CD1	2.31	0.59
1:H:361:LEU:HD21	1:H:372:ILE:CG2	2.32	0.59
1:J:294:LEU:CD1	1:K:273:LEU:CD2	2.80	0.59
1:L:347:LYS:HZ2	2:X:104:GLY:CA	2.00	0.59
1:A:505:LEU:HD13	1:L:447:GLN:HE22	1.67	0.59
1:G:501:LYS:O	1:G:505:LEU:HD23	2.01	0.59
1:I:265:LYS:HG3	1:J:245:LEU:CD1	2.31	0.59
1:I:447:GLN:HE22	1:J:505:LEU:HD13	1.67	0.59
1:K:364:LEU:CD1	1:K:391:TRP:HB2	2.29	0.59
1:L:361:LEU:HG	1:L:372:ILE:HG21	1.85	0.59
1:B:374:ALA:HB1	1:B:378:VAL:HG11	1.85	0.59
1:C:361:LEU:HG	1:C:372:ILE:HG21	1.85	0.59
1:I:399:MET:HA	1:I:403:ASN:HB2	1.84	0.59
1:J:361:LEU:HG	1:J:372:ILE:HG21	1.85	0.59
1:J:406:MET:CB	1:K:468:THR:CG2	2.79	0.59
1:K:475:ILE:HG23	1:K:476:SER:N	2.16	0.59
1:L:242:LEU:HD12	1:L:243:ALA:N	2.17	0.59
2:T:102:LYS:CB	2:T:107:VAL:HA	2.33	0.59
2:V:102:LYS:CB	2:V:107:VAL:HA	2.33	0.59
2:W:102:LYS:CB	2:W:107:VAL:HA	2.33	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:228:ILE:HD12	1:A:228:ILE:O	2.03	0.59
1:A:361:LEU:HD21	1:A:372:ILE:CG2	2.32	0.59
1:A:464:ASN:CG	1:A:475:ILE:HG21	2.23	0.59
1:B:389:VAL:HG23	1:C:376:ASP:OD2	2.01	0.59
1:D:294:LEU:HG	1:E:273:LEU:HD21	1.76	0.59
1:E:226:THR:HB	1:E:269:LEU:HD12	1.83	0.59
1:E:361:LEU:HG	1:E:372:ILE:HG21	1.85	0.59
1:F:242:LEU:HD12	1:F:243:ALA:N	2.17	0.59
1:G:447:GLN:HE22	1:H:505:LEU:HD13	1.67	0.59
1:I:374:ALA:HB1	1:I:378:VAL:HG11	1.85	0.59
1:K:242:LEU:HD12	1:K:243:ALA:N	2.17	0.59
1:L:373:VAL:O	1:L:414:ASN:HA	2.03	0.59
1:L:399:MET:HB3	1:L:404:LEU:O	2.01	0.59
1:L:458:SER:O	1:L:462:LEU:HG	2.02	0.59
1:K:447:GLN:HE22	1:L:505:LEU:HD13	1.67	0.59
1:A:447:GLN:HE22	1:B:505:LEU:HD13	1.67	0.59
1:C:399:MET:HA	1:C:403:ASN:HB2	1.84	0.59
1:D:458:SER:O	1:D:462:LEU:HG	2.02	0.59
1:E:228:ILE:O	1:E:228:ILE:HD12	2.03	0.59
1:E:501:LYS:O	1:E:505:LEU:HD23	2.01	0.59
1:F:226:THR:HB	1:F:269:LEU:HD12	1.83	0.59
1:H:374:ALA:HB1	1:H:378:VAL:HG11	1.85	0.59
1:H:464:ASN:CG	1:H:475:ILE:HG21	2.23	0.59
1:L:361:LEU:HD21	1:L:372:ILE:CB	2.33	0.59
2:U:102:LYS:CB	2:U:107:VAL:HA	2.33	0.59
1:B:373:VAL:O	1:B:414:ASN:HA	2.03	0.59
1:C:475:ILE:HG23	1:C:476:SER:N	2.16	0.59
1:D:361:LEU:HD21	1:D:372:ILE:CB	2.33	0.59
1:G:464:ASN:CG	1:G:475:ILE:HG21	2.23	0.59
1:H:228:ILE:HD12	1:H:228:ILE:O	2.03	0.59
1:H:373:VAL:O	1:H:414:ASN:HA	2.03	0.59
1:I:242:LEU:HD12	1:I:243:ALA:N	2.17	0.59
1:I:464:ASN:CG	1:I:475:ILE:HG21	2.23	0.59
1:J:228:ILE:O	1:J:228:ILE:HD12	2.03	0.59
1:K:374:ALA:HB1	1:K:378:VAL:HG11	1.85	0.59
2:R:102:LYS:CB	2:R:107:VAL:HA	2.33	0.59
2:X:144:ASN:HA	2:X:158:LYS:HA	1.85	0.59
1:B:265:LYS:NZ	1:C:245:LEU:HA	2.17	0.59
1:B:361:LEU:HD21	1:B:372:ILE:CB	2.33	0.59
1:B:361:LEU:HG	1:B:372:ILE:HG21	1.85	0.59
1:C:265:LYS:NZ	1:D:245:LEU:HA	2.17	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:458:SER:O	1:C:462:LEU:HG	2.02	0.59
1:E:374:ALA:HB1	1:E:378:VAL:HG11	1.85	0.59
1:F:228:ILE:HD12	1:F:228:ILE:O	2.03	0.59
1:F:374:ALA:HB1	1:F:378:VAL:HG11	1.85	0.59
1:G:361:LEU:HD21	1:G:372:ILE:CB	2.33	0.59
1:J:242:LEU:HD12	1:J:243:ALA:N	2.17	0.59
1:K:458:SER:O	1:K:462:LEU:HG	2.02	0.59
1:L:418:ARG:CD	1:L:481:VAL:HB	2.17	0.59
2:M:144:ASN:HA	2:M:158:LYS:HA	1.85	0.59
2:W:144:ASN:HA	2:W:158:LYS:HA	1.85	0.59
1:A:256:GLN:NE2	1:B:231:ARG:CD	2.48	0.59
1:B:228:ILE:HD12	1:B:228:ILE:O	2.03	0.59
1:C:374:ALA:HB1	1:C:378:VAL:HG11	1.85	0.59
1:D:483:ILE:CD1	1:D:491:ILE:HB	2.33	0.59
1:C:447:GLN:HE22	1:D:505:LEU:HD13	1.67	0.59
1:E:361:LEU:HD21	1:E:372:ILE:CB	2.33	0.59
1:D:389:VAL:HG23	1:E:376:ASP:OD2	2.01	0.59
1:G:373:VAL:O	1:G:414:ASN:HA	2.03	0.59
1:G:483:ILE:CD1	1:G:491:ILE:HB	2.33	0.59
1:H:293:ARG:HH11	1:I:272:THR:HG21	1.64	0.59
1:J:399:MET:HA	1:J:403:ASN:HB2	1.84	0.59
1:J:475:ILE:HG23	1:J:476:SER:N	2.16	0.59
1:K:464:ASN:CG	1:K:475:ILE:HG21	2.23	0.59
1:L:374:ALA:HB1	1:L:378:VAL:HG11	1.85	0.59
2:N:144:ASN:HA	2:N:158:LYS:HA	1.85	0.59
2:X:102:LYS:CB	2:X:107:VAL:HA	2.33	0.59
1:A:361:LEU:HG	1:A:372:ILE:HG21	1.85	0.58
1:A:468:THR:CG2	1:L:406:MET:CB	2.79	0.58
1:B:242:LEU:HD12	1:B:243:ALA:N	2.17	0.58
1:B:399:MET:HA	1:B:403:ASN:HB2	1.84	0.58
1:C:361:LEU:HD21	1:C:372:ILE:CB	2.33	0.58
1:C:464:ASN:CG	1:C:475:ILE:HG21	2.23	0.58
1:F:232:LYS:HE3	1:F:284:THR:HG22	1.85	0.58
1:F:464:ASN:CG	1:F:475:ILE:HG21	2.23	0.58
1:I:373:VAL:O	1:I:414:ASN:HA	2.03	0.58
2:O:144:ASN:HA	2:O:158:LYS:HA	1.85	0.58
2:P:144:ASN:HA	2:P:158:LYS:HA	1.85	0.58
2:Q:144:ASN:HA	2:Q:158:LYS:HA	1.85	0.58
1:B:483:ILE:CD1	1:B:491:ILE:HB	2.33	0.58
1:C:406:MET:CB	1:D:468:THR:CG2	2.79	0.58
1:E:242:LEU:HD12	1:E:243:ALA:N	2.17	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:361:LEU:HG	1:H:372:ILE:HG21	1.85	0.58
1:I:361:LEU:HD21	1:I:372:ILE:CB	2.33	0.58
1:J:347:LYS:HZ1	2:V:104:GLY:CA	2.04	0.58
1:K:228:ILE:O	1:K:228:ILE:HD12	2.03	0.58
1:K:399:MET:HA	1:K:403:ASN:HB2	1.84	0.58
2:Q:102:LYS:CB	2:Q:107:VAL:HA	2.33	0.58
2:U:144:ASN:HA	2:U:158:LYS:HA	1.85	0.58
2:V:144:ASN:HA	2:V:158:LYS:HA	1.85	0.58
1:A:361:LEU:HD21	1:A:372:ILE:CB	2.33	0.58
1:A:483:ILE:CD1	1:A:491:ILE:HB	2.33	0.58
1:D:242:LEU:HD12	1:D:243:ALA:N	2.17	0.58
1:E:447:GLN:HE22	1:F:505:LEU:HD13	1.67	0.58
1:F:373:VAL:O	1:F:414:ASN:HA	2.03	0.58
1:I:232:LYS:HE3	1:I:284:THR:HG22	1.85	0.58
1:J:361:LEU:HD21	1:J:372:ILE:CB	2.33	0.58
1:J:464:ASN:CG	1:J:475:ILE:HG21	2.23	0.58
1:K:373:VAL:O	1:K:414:ASN:HA	2.03	0.58
1:L:399:MET:HA	1:L:403:ASN:HB2	1.84	0.58
2:M:102:LYS:CB	2:M:107:VAL:HA	2.33	0.58
2:R:131:GLY:HA2	2:R:145:GLU:HA	1.86	0.58
2:S:131:GLY:HA2	2:S:145:GLU:HA	1.86	0.58
2:T:144:ASN:HA	2:T:158:LYS:HA	1.85	0.58
1:A:399:MET:HA	1:A:403:ASN:HB2	1.84	0.58
1:D:265:LYS:NZ	1:E:245:LEU:HA	2.18	0.58
1:E:483:ILE:CD1	1:E:491:ILE:HB	2.33	0.58
1:F:458:SER:O	1:F:462:LEU:HG	2.02	0.58
1:G:352:PHE:HB3	1:G:355:VAL:CG1	2.34	0.58
1:G:361:LEU:HG	1:G:372:ILE:HG21	1.85	0.58
1:I:346:ARG:O	1:I:348:ILE:HD12	2.04	0.58
1:J:364:LEU:HG	1:J:395:LEU:HD21	1.86	0.58
2:Q:131:GLY:HA2	2:Q:145:GLU:HA	1.86	0.58
2:U:131:GLY:HA2	2:U:145:GLU:HA	1.86	0.58
2:V:131:GLY:HA2	2:V:145:GLU:HA	1.86	0.58
1:C:228:ILE:HD12	1:C:228:ILE:O	2.03	0.58
1:D:232:LYS:HE3	1:D:284:THR:HG22	1.85	0.58
1:G:228:ILE:HD12	1:G:228:ILE:O	2.03	0.58
1:H:346:ARG:O	1:H:348:ILE:HD12	2.04	0.58
1:H:352:PHE:HB3	1:H:355:VAL:CG1	2.34	0.58
1:J:346:ARG:O	1:J:348:ILE:HD12	2.04	0.58
1:J:373:VAL:O	1:J:414:ASN:HA	2.03	0.58
1:K:364:LEU:HG	1:K:395:LEU:HD21	1.86	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:102:LYS:CB	2:N:107:VAL:HA	2.33	0.58
2:P:102:LYS:CB	2:P:107:VAL:HA	2.33	0.58
2:R:144:ASN:HA	2:R:158:LYS:HA	1.85	0.58
2:T:131:GLY:HA2	2:T:145:GLU:HA	1.86	0.58
1:A:374:ALA:HB1	1:A:378:VAL:HG11	1.85	0.58
1:B:464:ASN:CG	1:B:475:ILE:HG21	2.23	0.58
1:B:446:PHE:HE2	1:B:503:ARG:CB	2.17	0.58
1:G:232:LYS:HE3	1:G:284:THR:HG22	1.85	0.58
1:I:352:PHE:HB3	1:I:355:VAL:CG1	2.34	0.58
1:K:361:LEU:HD21	1:K:372:ILE:CB	2.33	0.58
1:L:228:ILE:HD12	1:L:228:ILE:O	2.03	0.58
1:L:464:ASN:CG	1:L:475:ILE:HG21	2.23	0.58
2:S:144:ASN:HA	2:S:158:LYS:HA	1.85	0.58
2:W:131:GLY:HA2	2:W:145:GLU:HA	1.86	0.58
1:A:265:LYS:NZ	1:B:245:LEU:HA	2.18	0.58
1:A:446:PHE:HE2	1:A:503:ARG:CB	2.17	0.58
1:C:232:LYS:HE3	1:C:284:THR:HG22	1.85	0.58
1:D:361:LEU:HG	1:D:372:ILE:HG21	1.85	0.58
1:E:464:ASN:CG	1:E:475:ILE:HG21	2.23	0.58
1:F:483:ILE:CD1	1:F:491:ILE:HB	2.33	0.58
1:G:346:ARG:O	1:G:348:ILE:HD12	2.04	0.58
1:F:406:MET:CB	1:G:468:THR:CG2	2.79	0.58
1:J:483:ILE:CD1	1:J:491:ILE:HB	2.33	0.58
1:A:245:LEU:CD1	1:L:265:LYS:HG3	2.31	0.58
2:S:102:LYS:CB	2:S:107:VAL:HA	2.33	0.58
1:C:373:VAL:O	1:C:414:ASN:HA	2.03	0.58
1:C:446:PHE:HE2	1:C:503:ARG:CB	2.17	0.58
1:D:464:ASN:CG	1:D:475:ILE:HG21	2.23	0.58
1:E:373:VAL:O	1:E:414:ASN:HA	2.03	0.58
1:G:483:ILE:HD11	1:G:491:ILE:HB	1.86	0.58
1:H:483:ILE:CD1	1:H:491:ILE:HB	2.33	0.58
1:K:346:ARG:O	1:K:348:ILE:HD12	2.04	0.58
1:L:446:PHE:HE2	1:L:503:ARG:CB	2.17	0.58
2:M:131:GLY:HA2	2:M:145:GLU:HA	1.86	0.58
2:O:102:LYS:CB	2:O:107:VAL:HA	2.33	0.58
2:P:131:GLY:HA2	2:P:145:GLU:HA	1.86	0.58
1:B:483:ILE:HD11	1:B:491:ILE:HB	1.86	0.58
1:D:228:ILE:HD12	1:D:228:ILE:O	2.03	0.58
1:F:352:PHE:HB3	1:F:355:VAL:CG1	2.34	0.58
1:F:361:LEU:HG	1:F:372:ILE:HG21	1.85	0.58
1:J:352:PHE:HB3	1:J:355:VAL:CG1	2.34	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:483:ILE:HD11	1:K:491:ILE:HB	1.86	0.58
2:N:131:GLY:HA2	2:N:145:GLU:HA	1.86	0.58
2:O:131:GLY:HA2	2:O:145:GLU:HA	1.86	0.58
1:B:364:LEU:HG	1:B:395:LEU:HD21	1.86	0.58
1:C:364:LEU:HG	1:C:395:LEU:HD21	1.86	0.58
1:D:374:ALA:HB1	1:D:378:VAL:HG11	1.85	0.58
1:F:346:ARG:O	1:F:348:ILE:HD12	2.04	0.58
1:F:361:LEU:HD21	1:F:372:ILE:CB	2.33	0.58
1:H:483:ILE:HD11	1:H:491:ILE:HB	1.86	0.58
1:K:361:LEU:HG	1:K:372:ILE:HG21	1.85	0.58
1:K:483:ILE:CD1	1:K:491:ILE:HB	2.33	0.58
1:J:447:GLN:HE22	1:K:505:LEU:HD13	1.67	0.58
1:B:352:PHE:HB3	1:B:355:VAL:CG1	2.34	0.57
1:C:352:PHE:HB3	1:C:355:VAL:CG1	2.34	0.57
1:C:483:ILE:CD1	1:C:491:ILE:HB	2.33	0.57
1:D:373:VAL:O	1:D:414:ASN:HA	2.03	0.57
1:D:446:PHE:HE2	1:D:503:ARG:CB	2.17	0.57
1:H:232:LYS:HE3	1:H:284:THR:HG22	1.86	0.57
1:I:228:ILE:HD12	1:I:228:ILE:O	2.03	0.57
1:K:446:PHE:HE2	1:K:503:ARG:CB	2.17	0.57
1:A:273:LEU:HD21	1:L:294:LEU:HG	1.76	0.57
1:L:346:ARG:O	1:L:348:ILE:HD12	2.04	0.57
1:L:382:MET:HE1	1:L:384:LEU:CG	2.32	0.57
2:X:131:GLY:HA2	2:X:145:GLU:HA	1.86	0.57
1:A:373:VAL:O	1:A:414:ASN:HA	2.03	0.57
1:A:418:ARG:CD	1:A:481:VAL:HB	2.17	0.57
1:A:483:ILE:HD11	1:A:491:ILE:HB	1.86	0.57
1:C:265:LYS:NZ	1:D:245:LEU:CA	2.35	0.57
1:D:364:LEU:HG	1:D:395:LEU:HD21	1.86	0.57
1:E:483:ILE:HD11	1:E:491:ILE:HB	1.86	0.57
1:I:364:LEU:HG	1:I:395:LEU:HD21	1.86	0.57
1:J:265:LYS:CE	1:K:245:LEU:CB	2.01	0.57
2:Q:92:LEU:HB2	2:Q:128:GLN:HG2	1.86	0.57
1:A:352:PHE:HB3	1:A:355:VAL:CG1	2.34	0.57
1:D:483:ILE:HD11	1:D:491:ILE:HB	1.86	0.57
1:D:293:ARG:HH11	1:E:272:THR:HG21	1.64	0.57
1:E:446:PHE:HE2	1:E:503:ARG:CB	2.17	0.57
1:F:364:LEU:HG	1:F:395:LEU:HD21	1.86	0.57
1:F:343:PHE:HB3	1:G:470:ASN:H	1.49	0.57
1:H:361:LEU:HD21	1:H:372:ILE:CB	2.33	0.57
1:I:361:LEU:HG	1:I:372:ILE:HG21	1.85	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:483:ILE:CD1	1:I:491:ILE:HB	2.33	0.57
1:J:232:LYS:HE3	1:J:284:THR:HG22	1.85	0.57
1:J:374:ALA:HB1	1:J:378:VAL:HG11	1.85	0.57
1:I:406:MET:CB	1:J:468:THR:CG2	2.79	0.57
1:J:483:ILE:HD11	1:J:491:ILE:HB	1.86	0.57
1:A:346:ARG:O	1:A:348:ILE:HD12	2.04	0.57
1:E:346:ARG:O	1:E:348:ILE:HD12	2.04	0.57
1:E:364:LEU:HG	1:E:395:LEU:HD21	1.86	0.57
1:G:364:LEU:HG	1:G:395:LEU:HD21	1.86	0.57
1:G:374:ALA:HB1	1:G:378:VAL:HG11	1.85	0.57
1:G:293:ARG:HH11	1:H:272:THR:HG21	1.64	0.57
1:J:446:PHE:HE2	1:J:503:ARG:CB	2.17	0.57
1:K:405:ASP:O	1:K:415:ILE:HG23	2.05	0.57
1:L:232:LYS:HE3	1:L:284:THR:HG22	1.85	0.57
1:L:364:LEU:HG	1:L:395:LEU:HD21	1.86	0.57
1:A:467:THR:CG2	1:L:396:ASP:OD2	2.41	0.57
1:A:347:LYS:CE	2:M:104:GLY:N	2.67	0.57
2:U:111:ILE:HG22	2:U:112:GLU:N	2.19	0.57
1:A:382:MET:SD	1:A:398:VAL:HG13	2.45	0.57
1:D:346:ARG:O	1:D:348:ILE:HD12	2.04	0.57
1:E:352:PHE:HB3	1:E:355:VAL:CG1	2.34	0.57
1:E:456:PHE:O	1:E:459:ILE:HG12	2.05	0.57
1:F:382:MET:SD	1:F:398:VAL:HG13	2.45	0.57
1:F:446:PHE:HE2	1:F:503:ARG:CB	2.17	0.57
1:G:382:MET:SD	1:G:398:VAL:HG13	2.45	0.57
1:L:405:ASP:O	1:L:415:ILE:HG23	2.05	0.57
2:O:110:PHE:CE1	2:O:117:VAL:HB	2.40	0.57
2:T:110:PHE:CE1	2:T:117:VAL:HB	2.40	0.57
2:X:110:PHE:CE1	2:X:117:VAL:HB	2.40	0.57
1:A:364:LEU:HG	1:A:395:LEU:HD21	1.86	0.57
1:C:456:PHE:O	1:C:459:ILE:HG12	2.05	0.57
1:D:382:MET:SD	1:D:398:VAL:HG13	2.45	0.57
1:E:232:LYS:HE3	1:E:284:THR:HG22	1.86	0.57
1:I:446:PHE:HE2	1:I:503:ARG:CB	2.17	0.57
1:J:361:LEU:HD21	1:J:372:ILE:O	2.05	0.57
1:J:405:ASP:O	1:J:415:ILE:HG23	2.05	0.57
1:K:352:PHE:HB3	1:K:355:VAL:CG1	2.34	0.57
1:L:483:ILE:CD1	1:L:491:ILE:HB	2.33	0.57
2:V:111:ILE:HG22	2:V:112:GLU:N	2.19	0.57
2:W:111:ILE:HG22	2:W:112:GLU:N	2.19	0.57
1:B:346:ARG:O	1:B:348:ILE:HD12	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:447:GLN:OE1	1:B:508:GLU:OE2	2.23	0.57
1:C:346:ARG:O	1:C:348:ILE:HD12	2.04	0.57
1:E:361:LEU:HD21	1:E:372:ILE:O	2.05	0.57
1:F:467:THR:CG2	1:F:476:SER:HB2	2.35	0.57
1:H:361:LEU:HD23	1:H:361:LEU:C	2.25	0.57
1:H:382:MET:SD	1:H:398:VAL:HG13	2.45	0.57
1:H:485:PRO:HG2	1:H:489:THR:OG1	2.05	0.57
1:I:361:LEU:HD21	1:I:372:ILE:O	2.05	0.57
1:I:382:MET:HE1	1:I:384:LEU:CG	2.34	0.57
1:K:361:LEU:HD21	1:K:372:ILE:O	2.05	0.57
2:N:110:PHE:CE1	2:N:117:VAL:HB	2.40	0.57
2:O:92:LEU:HB2	2:O:128:GLN:HG2	1.86	0.57
2:S:111:ILE:HG22	2:S:112:GLU:N	2.19	0.57
2:T:111:ILE:HG22	2:T:112:GLU:N	2.19	0.57
1:A:232:LYS:HE3	1:A:284:THR:HG22	1.85	0.57
1:D:456:PHE:O	1:D:459:ILE:HG12	2.05	0.57
1:E:382:MET:SD	1:E:398:VAL:HG13	2.45	0.57
1:E:485:PRO:HG2	1:E:489:THR:OG1	2.05	0.57
1:G:361:LEU:HD23	1:G:361:LEU:C	2.25	0.57
1:K:382:MET:HE1	1:K:384:LEU:CG	2.32	0.57
1:A:245:LEU:HA	1:L:265:LYS:NZ	2.17	0.57
1:L:406:MET:HE2	1:L:415:ILE:HD11	1.87	0.57
1:L:483:ILE:HD11	1:L:491:ILE:HB	1.86	0.57
2:O:111:ILE:HG22	2:O:112:GLU:N	2.19	0.57
2:P:111:ILE:HG22	2:P:112:GLU:N	2.19	0.57
2:Q:110:PHE:CE1	2:Q:117:VAL:HB	2.40	0.57
2:R:110:PHE:CE1	2:R:117:VAL:HB	2.40	0.57
2:R:92:LEU:HB2	2:R:128:GLN:HG2	1.86	0.57
1:A:456:PHE:O	1:A:459:ILE:HG12	2.05	0.57
1:B:406:MET:CB	1:C:468:THR:CG2	2.79	0.57
1:F:456:PHE:O	1:F:459:ILE:HG12	2.05	0.57
1:G:361:LEU:HD21	1:G:372:ILE:O	2.05	0.57
1:G:404:LEU:HA	1:G:419:ASP:OD2	2.05	0.57
1:H:446:PHE:HE2	1:H:503:ARG:CB	2.17	0.57
1:I:405:ASP:O	1:I:415:ILE:HG23	2.05	0.57
1:I:293:ARG:HH11	1:J:272:THR:HG21	1.64	0.57
1:K:361:LEU:HD23	1:K:361:LEU:C	2.25	0.57
1:K:404:LEU:HA	1:K:419:ASP:OD2	2.05	0.57
1:L:352:PHE:HB3	1:L:355:VAL:CG1	2.34	0.57
1:L:467:THR:CG2	1:L:476:SER:HB2	2.35	0.57
2:T:92:LEU:HB2	2:T:128:GLN:HG2	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:405:ASP:O	1:A:415:ILE:HG23	2.05	0.57
1:A:508:GLU:OE2	1:L:447:GLN:OE1	2.23	0.57
1:B:382:MET:SD	1:B:398:VAL:HG13	2.45	0.57
1:C:361:LEU:HD21	1:C:372:ILE:O	2.05	0.57
1:C:467:THR:CG2	1:C:476:SER:HB2	2.35	0.57
1:G:511:VAL:O	1:G:514:GLN:HB3	2.05	0.57
1:H:467:THR:CG2	1:H:476:SER:HB2	2.35	0.57
1:I:265:LYS:NZ	1:J:245:LEU:HA	2.17	0.57
1:I:467:THR:CG2	1:I:476:SER:HB2	2.35	0.57
1:J:404:LEU:HA	1:J:419:ASP:OD2	2.05	0.57
1:I:447:GLN:OE1	1:J:508:GLU:OE2	2.23	0.57
1:K:467:THR:CG2	1:K:476:SER:HB2	2.35	0.57
1:L:361:LEU:HD21	1:L:372:ILE:O	2.05	0.57
1:L:404:LEU:HA	1:L:419:ASP:OD2	2.05	0.57
2:N:92:LEU:HB2	2:N:128:GLN:HG2	1.86	0.57
2:X:111:ILE:HG22	2:X:112:GLU:N	2.19	0.57
1:A:382:MET:HE1	1:A:384:LEU:CG	2.32	0.56
1:C:485:PRO:HG2	1:C:489:THR:OG1	2.05	0.56
1:D:352:PHE:HB3	1:D:355:VAL:CG1	2.34	0.56
1:E:405:ASP:O	1:E:415:ILE:HG23	2.05	0.56
1:F:405:ASP:O	1:F:415:ILE:HG23	2.05	0.56
1:F:453:VAL:HG23	1:F:488:ASN:OD1	2.05	0.56
1:H:352:PHE:HB3	1:H:355:VAL:HG12	1.87	0.56
1:H:361:LEU:HD21	1:H:372:ILE:O	2.05	0.56
1:H:364:LEU:HG	1:H:395:LEU:HD21	1.86	0.56
1:I:382:MET:SD	1:I:398:VAL:HG13	2.45	0.56
1:I:453:VAL:HG23	1:I:488:ASN:OD1	2.05	0.56
1:J:352:PHE:HB3	1:J:355:VAL:HG12	1.87	0.56
1:J:490:LEU:HD23	1:J:506:ILE:CD1	2.35	0.56
1:K:232:LYS:HE3	1:K:284:THR:HG22	1.86	0.56
2:M:110:PHE:CE1	2:M:117:VAL:HB	2.40	0.56
2:Q:92:LEU:HD13	2:Q:127:GLY:HA2	1.87	0.56
2:V:110:PHE:CE1	2:V:117:VAL:HB	2.40	0.56
1:K:347:LYS:HE3	2:W:104:GLY:CA	2.35	0.56
1:A:273:LEU:HD21	1:L:294:LEU:CG	2.27	0.56
1:B:404:LEU:HA	1:B:419:ASP:OD2	2.05	0.56
1:B:453:VAL:HG23	1:B:488:ASN:OD1	2.05	0.56
1:B:467:THR:CG2	1:B:476:SER:HB2	2.35	0.56
1:B:447:GLN:OE1	1:C:508:GLU:OE2	2.23	0.56
1:E:404:LEU:HA	1:E:419:ASP:OD2	2.05	0.56
1:G:446:PHE:HE2	1:G:503:ARG:CB	2.17	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:447:GLN:OE1	1:I:508:GLU:OE2	2.23	0.56
1:J:361:LEU:C	1:J:361:LEU:HD23	2.25	0.56
1:K:361:LEU:HD21	1:K:372:ILE:C	2.26	0.56
1:L:453:VAL:HG23	1:L:488:ASN:OD1	2.05	0.56
1:L:456:PHE:O	1:L:459:ILE:HG12	2.05	0.56
2:S:92:LEU:HB2	2:S:128:GLN:HG2	1.86	0.56
1:B:361:LEU:HD21	1:B:372:ILE:C	2.26	0.56
1:C:404:LEU:HA	1:C:419:ASP:OD2	2.05	0.56
1:C:372:ILE:HA	1:C:413:VAL:HG22	1.87	0.56
1:C:483:ILE:HD11	1:C:491:ILE:HB	1.86	0.56
1:E:361:LEU:C	1:E:361:LEU:HD23	2.25	0.56
1:E:467:THR:CG2	1:E:476:SER:HB2	2.35	0.56
1:F:483:ILE:HD11	1:F:491:ILE:HB	1.86	0.56
1:F:485:PRO:HG2	1:F:489:THR:OG1	2.05	0.56
1:H:511:VAL:O	1:H:514:GLN:HB3	2.05	0.56
1:J:347:LYS:HE3	2:V:104:GLY:CA	2.35	0.56
1:K:453:VAL:HG23	1:K:488:ASN:OD1	2.05	0.56
1:A:272:THR:CG2	1:L:293:ARG:NH1	2.48	0.56
1:L:382:MET:SD	1:L:398:VAL:HG13	2.45	0.56
2:P:92:LEU:HB2	2:P:128:GLN:HG2	1.86	0.56
2:R:133:ILE:HD12	2:R:143:LEU:HB3	1.88	0.56
2:S:133:ILE:HD12	2:S:143:LEU:HB3	1.88	0.56
2:T:133:ILE:HD12	2:T:143:LEU:HB3	1.88	0.56
2:U:133:ILE:HD12	2:U:143:LEU:HB3	1.88	0.56
2:V:133:ILE:HD12	2:V:143:LEU:HB3	1.88	0.56
1:B:265:LYS:CE	1:C:245:LEU:CB	2.01	0.56
1:C:382:MET:SD	1:C:398:VAL:HG13	2.45	0.56
1:C:511:VAL:O	1:C:514:GLN:HB3	2.05	0.56
1:F:343:PHE:CB	1:G:469:GLY:C	2.42	0.56
1:F:361:LEU:C	1:F:361:LEU:HD23	2.25	0.56
1:F:361:LEU:HD21	1:F:372:ILE:O	2.05	0.56
1:G:352:PHE:HB3	1:G:355:VAL:HG12	1.87	0.56
1:G:485:PRO:HG2	1:G:489:THR:OG1	2.05	0.56
1:H:347:LYS:HE3	2:T:104:GLY:CA	2.35	0.56
1:H:453:VAL:HG23	1:H:488:ASN:OD1	2.05	0.56
1:I:347:LYS:HE3	2:U:104:GLY:CA	2.35	0.56
1:I:404:LEU:HA	1:I:419:ASP:OD2	2.05	0.56
1:K:382:MET:SD	1:K:398:VAL:HG13	2.45	0.56
1:K:490:LEU:HD23	1:K:506:ILE:CD1	2.35	0.56
1:E:347:LYS:CE	2:Q:104:GLY:N	2.67	0.56
2:Q:133:ILE:HD12	2:Q:143:LEU:HB3	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:404:LEU:HA	1:A:419:ASP:OD2	2.05	0.56
1:B:232:LYS:HE3	1:B:284:THR:HG22	1.86	0.56
1:B:490:LEU:HD23	1:B:506:ILE:CD1	2.35	0.56
1:D:453:VAL:HG23	1:D:488:ASN:OD1	2.05	0.56
1:F:511:VAL:O	1:F:514:GLN:HB3	2.05	0.56
1:G:405:ASP:O	1:G:415:ILE:HG23	2.05	0.56
1:I:361:LEU:C	1:I:361:LEU:HD23	2.25	0.56
1:I:483:ILE:HD11	1:I:491:ILE:HB	1.86	0.56
1:J:382:MET:SD	1:J:398:VAL:HG13	2.45	0.56
1:J:447:GLN:OE1	1:K:508:GLU:OE2	2.23	0.56
2:W:92:LEU:HD13	2:W:127:GLY:HA2	1.87	0.56
2:W:133:ILE:HD12	2:W:143:LEU:HB3	1.88	0.56
2:X:92:LEU:HD13	2:X:127:GLY:HA2	1.87	0.56
1:A:453:VAL:HG23	1:A:488:ASN:OD1	2.05	0.56
1:A:511:VAL:O	1:A:514:GLN:HB3	2.05	0.56
1:B:405:ASP:O	1:B:415:ILE:HG23	2.05	0.56
1:B:456:PHE:O	1:B:459:ILE:HG12	2.05	0.56
1:C:405:ASP:O	1:C:415:ILE:HG23	2.05	0.56
1:C:490:LEU:HD23	1:C:506:ILE:CD1	2.35	0.56
1:D:361:LEU:HD21	1:D:372:ILE:O	2.05	0.56
1:G:467:THR:CG2	1:G:476:SER:HB2	2.35	0.56
1:H:405:ASP:O	1:H:415:ILE:HG23	2.05	0.56
1:H:456:PHE:O	1:H:459:ILE:HG12	2.05	0.56
1:J:485:PRO:HG2	1:J:489:THR:OG1	2.05	0.56
1:L:485:PRO:HG2	1:L:489:THR:OG1	2.05	0.56
2:R:92:LEU:HD13	2:R:127:GLY:HA2	1.87	0.56
2:U:110:PHE:CE1	2:U:117:VAL:HB	2.40	0.56
2:V:92:LEU:HD13	2:V:127:GLY:HA2	1.87	0.56
2:X:92:LEU:HB2	2:X:128:GLN:HG2	1.86	0.56
1:A:361:LEU:C	1:A:361:LEU:HD23	2.25	0.56
1:A:361:LEU:HD21	1:A:372:ILE:O	2.05	0.56
1:D:405:ASP:O	1:D:415:ILE:HG23	2.05	0.56
1:D:404:LEU:HA	1:D:419:ASP:OD2	2.05	0.56
1:G:453:VAL:HG23	1:G:488:ASN:OD1	2.05	0.56
1:G:447:GLN:OE1	1:H:508:GLU:OE2	2.23	0.56
1:I:456:PHE:O	1:I:459:ILE:HG12	2.05	0.56
1:J:343:PHE:N	1:K:470:ASN:N	2.53	0.56
1:J:467:THR:CG2	1:J:476:SER:HB2	2.35	0.56
1:L:354:ASP:CG	1:L:381:LYS:HD3	2.26	0.56
1:L:511:VAL:O	1:L:514:GLN:HB3	2.05	0.56
2:P:110:PHE:CE1	2:P:117:VAL:HB	2.40	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:P:92:LEU:HD13	2:P:127:GLY:HA2	1.87	0.56
2:S:110:PHE:CE1	2:S:117:VAL:HB	2.40	0.56
1:A:361:LEU:HD21	1:A:372:ILE:C	2.26	0.56
1:B:418:ARG:CD	1:B:481:VAL:HB	2.17	0.56
1:D:361:LEU:C	1:D:361:LEU:HD23	2.25	0.56
1:D:418:ARG:CD	1:D:481:VAL:HB	2.17	0.56
1:H:490:LEU:HD23	1:H:506:ILE:CD1	2.35	0.56
1:I:361:LEU:HD21	1:I:372:ILE:C	2.26	0.56
1:K:352:PHE:HB3	1:K:355:VAL:HG12	1.87	0.56
1:K:447:GLN:OE1	1:L:508:GLU:OE2	2.23	0.56
1:F:347:LYS:CE	2:R:104:GLY:N	2.67	0.56
1:A:372:ILE:HA	1:A:413:VAL:HG22	1.87	0.56
1:A:490:LEU:HD23	1:A:506:ILE:CD1	2.35	0.56
1:B:352:PHE:HB3	1:B:355:VAL:HG12	1.87	0.56
1:B:354:ASP:CG	1:B:381:LYS:HD3	2.26	0.56
1:D:265:LYS:NZ	1:E:245:LEU:CA	2.35	0.56
1:D:361:LEU:HD21	1:D:372:ILE:C	2.26	0.56
1:D:467:THR:CG2	1:D:476:SER:HB2	2.35	0.56
1:F:404:LEU:HA	1:F:419:ASP:OD2	2.05	0.56
1:G:316:ALA:HB1	1:G:317:PRO:HD2	1.88	0.56
1:H:265:LYS:NZ	1:I:245:LEU:HA	2.17	0.56
1:I:495:THR:HG22	1:I:496:ARG:N	2.21	0.56
1:L:490:LEU:HD23	1:L:506:ILE:CD1	2.35	0.56
2:V:92:LEU:HB2	2:V:128:GLN:HG2	1.86	0.56
2:W:110:PHE:CE1	2:W:117:VAL:HB	2.40	0.56
2:W:92:LEU:HB2	2:W:128:GLN:HG2	1.86	0.56
1:A:487:THR:CG2	1:B:459:ILE:HG22	2.36	0.56
1:B:485:PRO:HG2	1:B:489:THR:OG1	2.05	0.56
1:C:352:PHE:HB3	1:C:355:VAL:HG12	1.87	0.56
1:C:361:LEU:HD23	1:C:361:LEU:C	2.25	0.56
1:C:364:LEU:O	1:C:367:GLU:HB2	2.06	0.56
1:D:490:LEU:HD23	1:D:506:ILE:CD1	2.35	0.56
1:C:447:GLN:OE1	1:D:508:GLU:OE2	2.23	0.56
1:F:490:LEU:HD23	1:F:506:ILE:CD1	2.35	0.56
1:H:404:LEU:HA	1:H:419:ASP:OD2	2.05	0.56
1:I:316:ALA:HB1	1:I:317:PRO:HD2	1.88	0.56
1:I:490:LEU:HD23	1:I:506:ILE:CD1	2.35	0.56
1:I:511:VAL:O	1:I:514:GLN:HB3	2.05	0.56
1:J:316:ALA:HB1	1:J:317:PRO:HD2	1.88	0.56
1:J:456:PHE:O	1:J:459:ILE:HG12	2.05	0.56
1:L:361:LEU:HD21	1:L:372:ILE:C	2.26	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:406:MET:CB	1:L:468:THR:CG2	2.79	0.56
2:U:92:LEU:HD13	2:U:127:GLY:HA2	1.87	0.56
2:X:133:ILE:HD12	2:X:143:LEU:HB3	1.88	0.56
1:B:361:LEU:HD23	1:B:361:LEU:C	2.25	0.56
1:D:364:LEU:O	1:D:367:GLU:HB2	2.06	0.56
1:C:487:THR:CG2	1:D:459:ILE:HG22	2.36	0.56
1:F:316:ALA:HB1	1:F:317:PRO:HD2	1.88	0.56
1:F:364:LEU:O	1:F:367:GLU:HB2	2.06	0.56
1:F:495:THR:HG22	1:F:496:ARG:N	2.21	0.56
1:E:447:GLN:CG	1:F:508:GLU:CD	2.47	0.56
1:G:361:LEU:HD21	1:G:372:ILE:C	2.26	0.56
1:G:490:LEU:HD23	1:G:506:ILE:CD1	2.35	0.56
1:H:316:ALA:HB1	1:H:317:PRO:HD2	1.88	0.56
1:H:364:LEU:O	1:H:367:GLU:HB2	2.06	0.56
1:I:485:PRO:HG2	1:I:489:THR:OG1	2.05	0.56
1:J:364:LEU:O	1:J:367:GLU:HB2	2.06	0.56
2:M:111:ILE:HG22	2:M:112:GLU:N	2.19	0.56
2:M:92:LEU:HD13	2:M:127:GLY:HA2	1.87	0.56
2:N:133:ILE:HD12	2:N:143:LEU:HB3	1.88	0.56
2:O:133:ILE:HD12	2:O:143:LEU:HB3	1.88	0.56
2:P:133:ILE:HD12	2:P:143:LEU:HB3	1.88	0.56
2:Q:111:ILE:HG22	2:Q:112:GLU:N	2.19	0.56
1:A:352:PHE:HB3	1:A:355:VAL:HG12	1.87	0.55
1:A:467:THR:CG2	1:A:476:SER:HB2	2.35	0.55
1:A:485:PRO:HG2	1:A:489:THR:OG1	2.05	0.55
1:B:364:LEU:O	1:B:367:GLU:HB2	2.06	0.55
1:A:406:MET:CB	1:B:468:THR:CG2	2.79	0.55
1:C:481:VAL:HG12	1:C:493:THR:HB	1.89	0.55
1:D:352:PHE:HB3	1:D:355:VAL:HG12	1.87	0.55
1:G:382:MET:HE1	1:G:384:LEU:CG	2.35	0.55
1:K:495:THR:HG22	1:K:496:ARG:N	2.21	0.55
1:K:511:VAL:O	1:K:514:GLN:HB3	2.05	0.55
1:L:361:LEU:HD23	1:L:361:LEU:C	2.25	0.55
1:K:487:THR:CG2	1:L:459:ILE:HG22	2.36	0.55
2:M:92:LEU:HB2	2:M:128:GLN:HG2	1.86	0.55
2:N:111:ILE:HG22	2:N:112:GLU:N	2.19	0.55
2:U:92:LEU:HB2	2:U:128:GLN:HG2	1.86	0.55
1:B:361:LEU:HD21	1:B:372:ILE:O	2.05	0.55
1:B:487:THR:CG2	1:C:459:ILE:HG22	2.36	0.55
1:B:511:VAL:O	1:B:514:GLN:HB3	2.05	0.55
1:D:372:ILE:HA	1:D:413:VAL:HG22	1.87	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:490:LEU:HD23	1:E:506:ILE:CD1	2.35	0.55
1:E:406:MET:CB	1:F:468:THR:CG2	2.79	0.55
1:F:481:VAL:HG12	1:F:493:THR:HB	1.89	0.55
1:I:481:VAL:HG12	1:I:493:THR:HB	1.89	0.55
1:J:453:VAL:HG23	1:J:488:ASN:OD1	2.05	0.55
1:J:481:VAL:HG12	1:J:493:THR:HB	1.88	0.55
1:J:511:VAL:O	1:J:514:GLN:HB3	2.05	0.55
1:K:316:ALA:HB1	1:K:317:PRO:HD2	1.88	0.55
1:K:485:PRO:HG2	1:K:489:THR:OG1	2.05	0.55
1:L:364:LEU:O	1:L:367:GLU:HB2	2.06	0.55
2:M:133:ILE:HD12	2:M:143:LEU:HB3	1.88	0.55
2:U:161:LEU:HD22	2:U:161:LEU:C	2.27	0.55
1:D:495:THR:HG22	1:D:496:ARG:N	2.21	0.55
1:E:294:LEU:HG	1:F:273:LEU:HD21	1.76	0.55
1:E:354:ASP:CG	1:E:381:LYS:HD3	2.26	0.55
1:E:453:VAL:HG23	1:E:488:ASN:OD1	2.05	0.55
1:H:354:ASP:CG	1:H:381:LYS:HD3	2.26	0.55
1:L:473:THR:HG23	1:L:474:LEU:N	2.22	0.55
2:T:161:LEU:C	2:T:161:LEU:HD22	2.27	0.55
2:W:161:LEU:HD22	2:W:161:LEU:C	2.27	0.55
1:A:364:LEU:O	1:A:367:GLU:HB2	2.06	0.55
1:A:354:ASP:CG	1:A:381:LYS:HD3	2.26	0.55
1:D:354:ASP:CG	1:D:381:LYS:HD3	2.26	0.55
1:D:473:THR:HG23	1:D:474:LEU:N	2.22	0.55
1:D:485:PRO:HG2	1:D:489:THR:OG1	2.05	0.55
1:E:352:PHE:HB3	1:E:355:VAL:HG12	1.87	0.55
1:E:364:LEU:O	1:E:367:GLU:HB2	2.06	0.55
1:E:473:THR:HG23	1:E:474:LEU:N	2.22	0.55
1:E:495:THR:HG22	1:E:496:ARG:N	2.21	0.55
1:E:511:VAL:O	1:E:514:GLN:HB3	2.05	0.55
1:G:456:PHE:O	1:G:459:ILE:HG12	2.05	0.55
1:H:361:LEU:HD21	1:H:372:ILE:C	2.26	0.55
1:I:354:ASP:CG	1:I:381:LYS:HD3	2.26	0.55
1:I:496:ARG:HA	1:I:499:ILE:HG22	1.88	0.55
1:J:354:ASP:CG	1:J:381:LYS:HD3	2.26	0.55
1:K:265:LYS:NZ	1:L:245:LEU:HA	2.17	0.55
1:K:473:THR:HG23	1:K:474:LEU:N	2.22	0.55
1:L:481:VAL:HG12	1:L:493:THR:HB	1.89	0.55
2:R:111:ILE:HG22	2:R:112:GLU:N	2.19	0.55
2:R:161:LEU:HD22	2:R:161:LEU:C	2.27	0.55
1:C:453:VAL:HG23	1:C:488:ASN:OD1	2.05	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:467:THR:HG21	1:C:476:SER:HB3	1.89	0.55
1:D:347:LYS:HZ2	2:P:104:GLY:CA	2.08	0.55
1:E:316:ALA:HB1	1:E:317:PRO:HD2	1.88	0.55
1:E:361:LEU:HD21	1:E:372:ILE:C	2.26	0.55
1:D:487:THR:CG2	1:E:459:ILE:HG22	2.36	0.55
1:E:467:THR:HG21	1:E:476:SER:HB3	1.89	0.55
1:F:354:ASP:CG	1:F:381:LYS:HD3	2.26	0.55
1:G:354:ASP:CG	1:G:381:LYS:HD3	2.26	0.55
1:G:495:THR:HG22	1:G:496:ARG:N	2.21	0.55
1:F:447:GLN:OE1	1:G:508:GLU:OE2	2.23	0.55
1:I:352:PHE:HB3	1:I:355:VAL:HG12	1.87	0.55
1:H:487:THR:CG2	1:I:459:ILE:HG22	2.36	0.55
1:J:372:ILE:HA	1:J:413:VAL:HG22	1.87	0.55
1:L:495:THR:HG22	1:L:496:ARG:N	2.21	0.55
2:N:92:LEU:HD13	2:N:127:GLY:HA2	1.87	0.55
1:A:459:ILE:HG22	1:L:487:THR:CG2	2.36	0.55
1:A:467:THR:HG21	1:A:476:SER:HB3	1.89	0.55
1:D:316:ALA:HB1	1:D:317:PRO:HD2	1.88	0.55
1:D:481:VAL:HG12	1:D:493:THR:HB	1.88	0.55
1:G:372:ILE:HA	1:G:413:VAL:HG22	1.87	0.55
1:G:481:VAL:HG12	1:G:493:THR:HB	1.88	0.55
1:J:361:LEU:HD21	1:J:372:ILE:C	2.26	0.55
1:J:495:THR:HG22	1:J:496:ARG:N	2.21	0.55
1:J:496:ARG:HA	1:J:499:ILE:HG22	1.89	0.55
1:K:456:PHE:O	1:K:459:ILE:HG12	2.05	0.55
1:L:316:ALA:HB1	1:L:317:PRO:HD2	1.88	0.55
1:G:347:LYS:CE	2:S:104:GLY:N	2.67	0.55
2:T:92:LEU:HD13	2:T:127:GLY:HA2	1.87	0.55
1:B:294:LEU:CG	1:C:273:LEU:HD21	2.27	0.55
1:C:361:LEU:HD21	1:C:372:ILE:C	2.26	0.55
1:J:467:THR:HG21	1:J:476:SER:HB3	1.89	0.55
1:K:343:PHE:N	1:L:470:ASN:N	2.53	0.55
1:A:481:VAL:HG12	1:A:493:THR:HB	1.88	0.55
1:H:372:ILE:HA	1:H:413:VAL:HG22	1.87	0.55
1:H:495:THR:HG22	1:H:496:ARG:N	2.21	0.55
1:I:487:THR:CG2	1:J:459:ILE:HG22	2.36	0.55
1:K:354:ASP:CG	1:K:381:LYS:HD3	2.26	0.55
1:L:352:PHE:HB3	1:L:355:VAL:HG12	1.87	0.55
1:L:467:THR:HG21	1:L:476:SER:HB3	1.89	0.55
2:S:161:LEU:HD22	2:S:161:LEU:C	2.27	0.55
1:A:473:THR:HG23	1:A:474:LEU:N	2.22	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:316:ALA:HB1	1:C:317:PRO:HD2	1.88	0.55
1:C:473:THR:HG23	1:C:474:LEU:N	2.22	0.55
1:D:511:VAL:O	1:D:514:GLN:HB3	2.05	0.55
1:H:473:THR:HG23	1:H:474:LEU:N	2.22	0.55
1:H:467:THR:HG21	1:H:476:SER:HB3	1.89	0.55
1:H:406:MET:CB	1:I:468:THR:CG2	2.79	0.55
1:J:473:THR:HG23	1:J:474:LEU:N	2.22	0.55
1:A:414:ASN:C	1:A:415:ILE:HD12	2.28	0.55
1:B:495:THR:HG22	1:B:496:ARG:N	2.21	0.55
1:C:496:ARG:HA	1:C:499:ILE:HG22	1.88	0.55
1:D:415:ILE:N	1:D:415:ILE:HD12	2.22	0.55
1:D:496:ARG:HA	1:D:499:ILE:HG22	1.89	0.55
1:E:481:VAL:HG12	1:E:493:THR:HB	1.88	0.55
1:F:361:LEU:HD21	1:F:372:ILE:C	2.26	0.55
1:F:372:ILE:HA	1:F:413:VAL:HG22	1.87	0.55
1:F:473:THR:HG23	1:F:474:LEU:N	2.22	0.55
1:H:496:ARG:HA	1:H:499:ILE:HG22	1.89	0.55
1:I:473:THR:HG23	1:I:474:LEU:N	2.22	0.55
1:K:364:LEU:O	1:K:367:GLU:HB2	2.06	0.55
1:L:414:ASN:C	1:L:415:ILE:HD12	2.28	0.55
2:M:158:LYS:O	2:M:159:ALA:HB2	2.07	0.55
2:S:92:LEU:HD13	2:S:127:GLY:HA2	1.87	0.55
1:A:316:ALA:HB1	1:A:317:PRO:HD2	1.88	0.54
1:B:414:ASN:C	1:B:415:ILE:HD12	2.28	0.54
1:C:354:ASP:CG	1:C:381:LYS:HD3	2.26	0.54
1:D:414:ASN:C	1:D:415:ILE:HD12	2.28	0.54
1:D:447:GLN:OE1	1:E:508:GLU:OE2	2.23	0.54
1:E:487:THR:CG2	1:F:459:ILE:HG22	2.36	0.54
1:F:467:THR:HG21	1:F:476:SER:HB3	1.89	0.54
1:G:396:ASP:OD2	1:H:467:THR:CG2	2.41	0.54
1:G:467:THR:HG21	1:G:476:SER:HB2	1.90	0.54
1:K:496:ARG:HA	1:K:499:ILE:HG22	1.89	0.54
2:O:92:LEU:HD13	2:O:127:GLY:HA2	1.87	0.54
2:Q:101:LEU:O	2:Q:108:SER:HB2	2.08	0.54
1:A:415:ILE:HD12	1:A:415:ILE:N	2.22	0.54
1:B:316:ALA:HB1	1:B:317:PRO:HD2	1.88	0.54
1:B:415:ILE:N	1:B:415:ILE:HD12	2.22	0.54
1:B:481:VAL:HG12	1:B:493:THR:HB	1.88	0.54
1:C:414:ASN:C	1:C:415:ILE:HD12	2.28	0.54
1:E:414:ASN:C	1:E:415:ILE:HD12	2.28	0.54
1:F:352:PHE:HB3	1:F:355:VAL:HG12	1.87	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:415:ILE:HD12	1:F:415:ILE:N	2.22	0.54
1:G:265:LYS:NZ	1:H:245:LEU:HA	2.18	0.54
1:G:473:THR:HG23	1:G:474:LEU:N	2.22	0.54
1:I:464:ASN:HB3	1:I:475:ILE:HD13	1.90	0.54
1:J:396:ASP:OD2	1:K:467:THR:CG2	2.41	0.54
1:K:467:THR:HG21	1:K:476:SER:HB3	1.89	0.54
2:N:158:LYS:O	2:N:159:ALA:HB2	2.07	0.54
2:N:161:LEU:HD22	2:N:161:LEU:C	2.27	0.54
2:P:101:LEU:O	2:P:108:SER:HB2	2.08	0.54
2:P:161:LEU:HD22	2:P:161:LEU:C	2.27	0.54
2:R:158:LYS:O	2:R:159:ALA:HB2	2.08	0.54
2:T:158:LYS:O	2:T:159:ALA:HB2	2.07	0.54
1:A:343:PHE:CB	1:B:469:GLY:C	2.42	0.54
1:B:258:ASP:HB2	1:C:282:PHE:CE2	2.43	0.54
1:C:415:ILE:HD12	1:C:415:ILE:N	2.22	0.54
1:F:464:ASN:HB3	1:F:475:ILE:HD13	1.90	0.54
1:H:257:HIS:CD2	1:I:232:LYS:CB	2.89	0.54
1:H:258:ASP:HB2	1:I:282:PHE:CE2	2.43	0.54
1:H:347:LYS:HZ2	2:T:104:GLY:CA	2.07	0.54
1:G:487:THR:CG2	1:H:459:ILE:HG22	2.36	0.54
1:H:467:THR:HG21	1:H:476:SER:HB2	1.90	0.54
1:K:258:ASP:HB2	1:L:282:PHE:CE2	2.43	0.54
2:O:101:LEU:O	2:O:108:SER:HB2	2.08	0.54
2:O:158:LYS:O	2:O:159:ALA:HB2	2.08	0.54
2:R:101:LEU:O	2:R:108:SER:HB2	2.08	0.54
2:V:161:LEU:HD22	2:V:161:LEU:C	2.27	0.54
2:X:101:LEU:O	2:X:108:SER:HB2	2.08	0.54
1:C:464:ASN:HB3	1:C:475:ILE:HD13	1.90	0.54
1:E:265:LYS:NZ	1:F:245:LEU:CA	2.35	0.54
1:E:258:ASP:HB2	1:F:282:PHE:CE2	2.43	0.54
1:F:467:THR:HG21	1:F:476:SER:HB2	1.90	0.54
1:E:343:PHE:N	1:F:470:ASN:N	2.53	0.54
1:E:447:GLN:OE1	1:F:508:GLU:OE2	2.23	0.54
1:G:265:LYS:CE	1:H:245:LEU:HB3	2.26	0.54
1:G:364:LEU:O	1:G:367:GLU:HB2	2.06	0.54
1:G:496:ARG:HA	1:G:499:ILE:HG22	1.89	0.54
1:H:482:LEU:HD13	1:H:482:LEU:H	1.73	0.54
1:K:414:ASN:C	1:K:415:ILE:HD12	2.28	0.54
2:M:161:LEU:HD22	2:M:161:LEU:C	2.27	0.54
2:U:158:LYS:O	2:U:159:ALA:HB2	2.08	0.54
1:A:495:THR:HG22	1:A:496:ARG:N	2.21	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:496:ARG:HA	1:E:499:ILE:HG22	1.89	0.54
1:F:414:ASN:C	1:F:415:ILE:HD12	2.28	0.54
1:G:228:ILE:HD13	1:G:277:LEU:CD2	2.38	0.54
1:F:487:THR:CG2	1:G:459:ILE:HG22	2.36	0.54
1:G:467:THR:HG21	1:G:476:SER:HB3	1.89	0.54
1:H:228:ILE:HD13	1:H:277:LEU:CD2	2.38	0.54
1:H:396:ASP:OD2	1:I:467:THR:CG2	2.41	0.54
1:I:228:ILE:HD13	1:I:277:LEU:CD2	2.38	0.54
1:I:396:ASP:OD2	1:J:467:THR:CG2	2.41	0.54
1:I:406:MET:HE2	1:I:415:ILE:HD11	1.90	0.54
1:I:467:THR:HG21	1:I:476:SER:HB2	1.90	0.54
1:J:228:ILE:HD13	1:J:277:LEU:CD2	2.38	0.54
1:K:415:ILE:N	1:K:415:ILE:HD12	2.22	0.54
1:L:496:ARG:HA	1:L:499:ILE:HG22	1.88	0.54
2:S:158:LYS:O	2:S:159:ALA:HB2	2.07	0.54
2:W:101:LEU:O	2:W:108:SER:HB2	2.08	0.54
2:W:158:LYS:O	2:W:159:ALA:HB2	2.07	0.54
1:B:343:PHE:CD1	1:C:469:GLY:HA3	2.42	0.54
1:B:496:ARG:HA	1:B:499:ILE:HG22	1.89	0.54
1:C:449:LYS:HD3	1:C:449:LYS:N	2.23	0.54
1:E:372:ILE:HA	1:E:413:VAL:HG22	1.87	0.54
1:D:343:PHE:CD1	1:E:469:GLY:HA3	2.42	0.54
1:F:343:PHE:N	1:G:470:ASN:N	2.53	0.54
1:H:449:LYS:HD3	1:H:449:LYS:N	2.23	0.54
1:H:481:VAL:HG12	1:H:493:THR:HB	1.88	0.54
1:I:364:LEU:O	1:I:367:GLU:HB2	2.06	0.54
1:I:415:ILE:HD12	1:I:415:ILE:N	2.22	0.54
2:Q:158:LYS:O	2:Q:159:ALA:HB2	2.07	0.54
2:X:161:LEU:C	2:X:161:LEU:HD22	2.27	0.54
1:B:467:THR:HG21	1:B:476:SER:HB2	1.90	0.54
1:C:495:THR:HG22	1:C:496:ARG:N	2.21	0.54
1:F:228:ILE:HD13	1:F:277:LEU:CD2	2.38	0.54
1:G:449:LYS:N	1:G:449:LYS:HD3	2.23	0.54
1:I:372:ILE:HA	1:I:413:VAL:HG22	1.87	0.54
1:J:258:ASP:HB2	1:K:282:PHE:CE2	2.43	0.54
1:K:228:ILE:HD13	1:K:277:LEU:CD2	2.38	0.54
1:K:481:VAL:HG12	1:K:493:THR:HB	1.88	0.54
1:L:464:ASN:HB3	1:L:475:ILE:HD13	1.90	0.54
2:M:101:LEU:O	2:M:108:SER:HB2	2.08	0.54
2:R:136:ILE:O	2:R:137:THR:HG23	2.08	0.54
2:S:101:LEU:O	2:S:108:SER:HB2	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:V:158:LYS:O	2:V:159:ALA:HB2	2.07	0.54
1:A:228:ILE:HD13	1:A:277:LEU:CD2	2.38	0.54
1:A:449:LYS:N	1:A:449:LYS:HD3	2.23	0.54
1:B:467:THR:HG21	1:B:476:SER:HB3	1.89	0.54
1:D:228:ILE:HD13	1:D:277:LEU:CD2	2.38	0.54
1:D:464:ASN:HB3	1:D:475:ILE:HD13	1.90	0.54
1:E:228:ILE:HD13	1:E:277:LEU:CD2	2.38	0.54
1:E:256:GLN:NE2	1:F:231:ARG:CD	2.48	0.54
1:E:347:LYS:HE3	2:Q:104:GLY:CA	2.35	0.54
1:F:343:PHE:CD1	1:G:469:GLY:HA3	2.42	0.54
1:H:415:ILE:HD12	1:H:415:ILE:N	2.22	0.54
1:H:464:ASN:HB3	1:H:475:ILE:HD13	1.90	0.54
1:J:415:ILE:HD12	1:J:415:ILE:N	2.22	0.54
1:J:467:THR:HG21	1:J:476:SER:HB2	1.90	0.54
1:J:487:THR:CG2	1:K:459:ILE:HG22	2.36	0.54
1:L:228:ILE:HD13	1:L:277:LEU:CD2	2.38	0.54
1:L:449:LYS:N	1:L:449:LYS:HD3	2.23	0.54
2:N:101:LEU:O	2:N:108:SER:HB2	2.08	0.54
2:P:158:LYS:O	2:P:159:ALA:HB2	2.07	0.54
2:Q:136:ILE:O	2:Q:137:THR:HG23	2.08	0.54
1:H:347:LYS:CE	2:T:104:GLY:N	2.67	0.54
2:X:136:ILE:O	2:X:137:THR:HG23	2.08	0.54
1:A:467:THR:HG21	1:A:476:SER:HB2	1.90	0.54
1:B:228:ILE:HD13	1:B:277:LEU:CD2	2.38	0.54
1:B:473:THR:HG23	1:B:474:LEU:N	2.22	0.54
1:C:228:ILE:HD13	1:C:277:LEU:CD2	2.38	0.54
1:F:496:ARG:HA	1:F:499:ILE:HG22	1.88	0.54
1:K:482:LEU:HD13	1:K:482:LEU:H	1.73	0.54
2:M:136:ILE:O	2:M:137:THR:HG23	2.08	0.54
2:N:136:ILE:O	2:N:137:THR:HG23	2.08	0.54
2:V:101:LEU:O	2:V:108:SER:HB2	2.08	0.54
2:W:136:ILE:O	2:W:137:THR:HG23	2.08	0.54
1:A:258:ASP:HB2	1:B:282:PHE:CE2	2.43	0.54
1:D:449:LYS:HD3	1:D:449:LYS:N	2.23	0.54
1:D:467:THR:HG21	1:D:476:SER:HB3	1.89	0.54
1:F:258:ASP:HB2	1:G:282:PHE:CE2	2.43	0.54
1:I:449:LYS:N	1:I:449:LYS:HD3	2.23	0.54
1:J:386:LEU:HD12	1:J:386:LEU:N	2.23	0.54
1:J:482:LEU:H	1:J:482:LEU:HD13	1.73	0.54
1:K:464:ASN:HB3	1:K:475:ILE:HD13	1.90	0.54
2:M:136:ILE:HA	2:M:141:ILE:HG23	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Q:161:LEU:C	2:Q:161:LEU:HD22	2.27	0.54
2:S:161:LEU:HD13	2:S:161:LEU:C	2.29	0.54
2:T:101:LEU:O	2:T:108:SER:HB2	2.08	0.54
1:B:372:ILE:HA	1:B:413:VAL:HG22	1.87	0.53
1:B:449:LYS:N	1:B:449:LYS:HD3	2.23	0.53
1:C:467:THR:HG21	1:C:476:SER:HB2	1.90	0.53
1:D:258:ASP:HB2	1:E:282:PHE:CE2	2.43	0.53
1:D:356:GLU:HA	1:D:381:LYS:HA	1.90	0.53
1:E:415:ILE:N	1:E:415:ILE:HD12	2.22	0.53
1:F:449:LYS:N	1:F:449:LYS:HD3	2.23	0.53
1:G:356:GLU:HA	1:G:381:LYS:HA	1.90	0.53
1:G:415:ILE:HD12	1:G:415:ILE:N	2.22	0.53
1:I:386:LEU:N	1:I:386:LEU:HD12	2.23	0.53
1:K:347:LYS:HZ2	2:W:104:GLY:CA	2.04	0.53
1:L:415:ILE:HD12	1:L:415:ILE:N	2.22	0.53
2:N:136:ILE:HA	2:N:141:ILE:HG23	1.90	0.53
2:Q:161:LEU:C	2:Q:161:LEU:HD13	2.29	0.53
2:R:110:PHE:HE1	2:R:117:VAL:HB	1.74	0.53
2:U:110:PHE:HE1	2:U:117:VAL:HB	1.74	0.53
2:X:158:LYS:O	2:X:159:ALA:HB2	2.08	0.53
1:A:496:ARG:HA	1:A:499:ILE:HG22	1.89	0.53
1:C:258:ASP:HB2	1:D:282:PHE:CE2	2.43	0.53
1:E:464:ASN:HB3	1:E:475:ILE:HD13	1.90	0.53
1:F:257:HIS:CD2	1:G:232:LYS:CB	2.89	0.53
1:F:265:LYS:NZ	1:G:245:LEU:HA	2.17	0.53
1:F:356:GLU:HA	1:F:381:LYS:HA	1.90	0.53
1:F:482:LEU:H	1:F:482:LEU:HD13	1.73	0.53
1:G:464:ASN:HB3	1:G:475:ILE:HD13	1.90	0.53
1:H:356:GLU:HA	1:H:381:LYS:HA	1.90	0.53
1:I:361:LEU:HD21	1:I:372:ILE:HB	1.90	0.53
1:I:414:ASN:C	1:I:415:ILE:HD12	2.28	0.53
1:J:343:PHE:CD1	1:K:469:GLY:HA3	2.42	0.53
1:J:361:LEU:HD21	1:J:372:ILE:HB	1.90	0.53
1:J:414:ASN:C	1:J:415:ILE:HD12	2.28	0.53
1:K:372:ILE:HA	1:K:413:VAL:HG22	1.87	0.53
2:O:136:ILE:HA	2:O:141:ILE:HG23	1.90	0.53
2:O:136:ILE:O	2:O:137:THR:HG23	2.08	0.53
2:O:161:LEU:C	2:O:161:LEU:HD22	2.27	0.53
2:Q:110:PHE:HE1	2:Q:117:VAL:HB	1.74	0.53
2:S:136:ILE:O	2:S:137:THR:HG23	2.08	0.53
2:T:161:LEU:C	2:T:161:LEU:HD13	2.29	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:V:136:ILE:O	2:V:137:THR:HG23	2.08	0.53
2:X:136:ILE:HA	2:X:141:ILE:HG23	1.90	0.53
1:B:257:HIS:CD2	1:C:232:LYS:CB	2.89	0.53
1:C:386:LEU:N	1:C:386:LEU:HD12	2.23	0.53
1:E:467:THR:HG21	1:E:476:SER:HB2	1.90	0.53
1:G:258:ASP:HB2	1:H:282:PHE:CE2	2.43	0.53
1:F:293:ARG:HH11	1:G:272:THR:HG21	1.64	0.53
1:H:418:ARG:HD3	1:H:474:LEU:HD13	1.90	0.53
1:A:470:ASN:N	1:L:343:PHE:N	2.53	0.53
2:P:161:LEU:HD13	2:P:161:LEU:C	2.29	0.53
2:S:110:PHE:HE1	2:S:117:VAL:HB	1.74	0.53
2:U:136:ILE:O	2:U:137:THR:HG23	2.08	0.53
1:B:386:LEU:HD12	1:B:386:LEU:N	2.23	0.53
1:C:343:PHE:N	1:D:470:ASN:N	2.53	0.53
1:C:356:GLU:HA	1:C:381:LYS:HA	1.90	0.53
1:C:464:ASN:HA	1:C:502:PHE:HZ	1.74	0.53
1:E:356:GLU:HA	1:E:381:LYS:HA	1.90	0.53
1:G:414:ASN:C	1:G:415:ILE:HD12	2.28	0.53
1:G:418:ARG:HD3	1:G:474:LEU:HD13	1.90	0.53
1:G:343:PHE:N	1:H:470:ASN:N	2.53	0.53
1:I:343:PHE:CD1	1:J:469:GLY:HA3	2.42	0.53
1:J:265:LYS:NZ	1:K:245:LEU:HA	2.18	0.53
1:K:257:HIS:CD2	1:L:232:LYS:CB	2.89	0.53
1:K:449:LYS:N	1:K:449:LYS:HD3	2.23	0.53
1:K:467:THR:HG21	1:K:476:SER:HB2	1.90	0.53
2:U:101:LEU:O	2:U:108:SER:HB2	2.08	0.53
1:B:464:ASN:HB3	1:B:475:ILE:HD13	1.90	0.53
1:F:386:LEU:HD12	1:F:386:LEU:N	2.23	0.53
1:G:361:LEU:HD21	1:G:372:ILE:HB	1.90	0.53
1:G:482:LEU:H	1:G:482:LEU:HD13	1.73	0.53
1:H:414:ASN:C	1:H:415:ILE:HD12	2.28	0.53
1:H:343:PHE:CD1	1:I:469:GLY:HA3	2.42	0.53
1:J:464:ASN:HB3	1:J:475:ILE:HD13	1.90	0.53
1:K:386:LEU:N	1:K:386:LEU:HD12	2.23	0.53
1:K:464:ASN:HA	1:K:502:PHE:HZ	1.74	0.53
1:A:282:PHE:CE2	1:L:258:ASP:HB2	2.43	0.53
1:A:386:LEU:HD12	1:A:386:LEU:N	2.23	0.53
1:A:464:ASN:HB3	1:A:475:ILE:HD13	1.90	0.53
1:A:482:LEU:HD13	1:A:482:LEU:H	1.73	0.53
1:B:464:ASN:HA	1:B:502:PHE:HZ	1.74	0.53
1:C:418:ARG:CD	1:C:481:VAL:HB	2.17	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:356:GLU:HA	1:I:381:LYS:HA	1.90	0.53
1:A:232:LYS:CB	1:L:257:HIS:CD2	2.89	0.53
1:L:467:THR:HG21	1:L:476:SER:HB2	1.90	0.53
1:L:464:ASN:HA	1:L:502:PHE:HZ	1.74	0.53
2:P:110:PHE:HE1	2:P:117:VAL:HB	1.74	0.53
2:P:136:ILE:HA	2:P:141:ILE:HG23	1.90	0.53
2:W:110:PHE:HE1	2:W:117:VAL:HB	1.74	0.53
1:C:294:LEU:HD12	1:D:273:LEU:HD23	1.91	0.53
1:E:386:LEU:HD12	1:E:386:LEU:N	2.23	0.53
1:E:418:ARG:HD3	1:E:474:LEU:HD13	1.90	0.53
1:F:347:LYS:HE3	2:R:104:GLY:CA	2.35	0.53
1:F:361:LEU:HD21	1:F:372:ILE:HB	1.90	0.53
1:G:464:ASN:HA	1:G:502:PHE:HZ	1.74	0.53
1:H:464:ASN:HA	1:H:502:PHE:HZ	1.74	0.53
1:I:467:THR:HG21	1:I:476:SER:HB3	1.89	0.53
1:I:482:LEU:HD13	1:I:482:LEU:H	1.73	0.53
1:I:294:LEU:HD12	1:J:273:LEU:HD23	1.91	0.53
1:K:361:LEU:HD21	1:K:372:ILE:HB	1.91	0.53
2:P:136:ILE:O	2:P:137:THR:HG23	2.08	0.53
1:D:343:PHE:N	1:E:470:ASN:N	2.53	0.53
1:D:386:LEU:N	1:D:386:LEU:HD12	2.23	0.53
1:D:425:ASP:HA	1:D:428:PHE:HD2	1.74	0.53
1:H:361:LEU:HD21	1:H:372:ILE:HB	1.91	0.53
1:I:258:ASP:HB2	1:J:282:PHE:CE2	2.43	0.53
1:I:418:ARG:HD3	1:I:474:LEU:HD13	1.90	0.53
1:K:343:PHE:CD1	1:L:469:GLY:HA3	2.42	0.53
2:Q:136:ILE:HA	2:Q:141:ILE:HG23	1.90	0.53
2:T:146:LEU:HA	2:T:156:SER:HA	1.91	0.53
1:I:347:LYS:CE	2:U:104:GLY:N	2.67	0.53
2:V:161:LEU:C	2:V:161:LEU:HD13	2.29	0.53
2:X:110:PHE:HE1	2:X:117:VAL:HB	1.74	0.53
1:A:273:LEU:HD23	1:L:294:LEU:HD12	1.91	0.53
1:A:355:VAL:HG22	1:A:356:GLU:N	2.24	0.53
1:B:356:GLU:HA	1:B:381:LYS:HA	1.90	0.53
1:E:449:LYS:N	1:E:449:LYS:HD3	2.23	0.53
1:F:418:ARG:HD3	1:F:474:LEU:HD13	1.90	0.53
1:I:464:ASN:HA	1:I:502:PHE:HZ	1.74	0.53
1:K:480:SER:HA	1:K:494:ASP:HB3	1.91	0.53
2:N:161:LEU:HD13	2:N:161:LEU:C	2.29	0.53
2:T:102:LYS:HB3	2:T:107:VAL:HA	1.91	0.53
2:U:161:LEU:HD13	2:U:161:LEU:C	2.29	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:389:VAL:HG12	1:A:390:PRO:O	2.09	0.53
1:B:294:LEU:HD12	1:C:273:LEU:HD23	1.91	0.53
1:C:257:HIS:CD2	1:D:232:LYS:CB	2.89	0.53
1:D:257:HIS:CD2	1:E:232:LYS:CB	2.89	0.53
1:F:294:LEU:HD12	1:G:273:LEU:HD23	1.91	0.53
1:H:355:VAL:HG22	1:H:356:GLU:N	2.24	0.53
1:H:382:MET:HE1	1:H:384:LEU:CG	2.38	0.53
1:H:386:LEU:HD12	1:H:386:LEU:N	2.23	0.53
1:H:389:VAL:HG12	1:H:390:PRO:O	2.09	0.53
1:J:498:VAL:CG1	1:J:502:PHE:HE1	2.22	0.53
1:L:389:VAL:HG12	1:L:390:PRO:O	2.09	0.53
1:L:418:ARG:HD3	1:L:474:LEU:HD13	1.90	0.53
2:N:110:PHE:HE1	2:N:117:VAL:HB	1.74	0.53
2:S:146:LEU:HA	2:S:156:SER:HA	1.91	0.53
2:U:102:LYS:HB3	2:U:107:VAL:HA	1.91	0.53
2:U:146:LEU:HA	2:U:156:SER:HA	1.91	0.53
2:V:102:LYS:HB3	2:V:107:VAL:HA	1.91	0.53
2:W:136:ILE:HA	2:W:141:ILE:HG23	1.90	0.53
1:A:498:VAL:CG1	1:A:502:PHE:HE1	2.22	0.52
1:D:467:THR:HG21	1:D:476:SER:HB2	1.90	0.52
1:E:482:LEU:H	1:E:482:LEU:HD13	1.73	0.52
1:F:265:LYS:NZ	1:G:245:LEU:CA	2.35	0.52
1:F:355:VAL:HG22	1:F:356:GLU:N	2.24	0.52
1:G:355:VAL:HG22	1:G:356:GLU:N	2.24	0.52
1:G:425:ASP:HA	1:G:428:PHE:HD2	1.74	0.52
1:G:503:ARG:HG2	1:G:507:ASP:OD2	2.10	0.52
1:I:389:VAL:HG12	1:I:390:PRO:O	2.09	0.52
1:J:449:LYS:N	1:J:449:LYS:HD3	2.23	0.52
1:K:498:VAL:CG1	1:K:502:PHE:HE1	2.22	0.52
1:L:498:VAL:CG1	1:L:502:PHE:HE1	2.22	0.52
2:T:136:ILE:O	2:T:137:THR:HG23	2.08	0.52
2:X:161:LEU:C	2:X:161:LEU:HD13	2.29	0.52
1:B:265:LYS:CE	1:C:245:LEU:HB3	2.25	0.52
1:B:389:VAL:HG12	1:B:390:PRO:O	2.09	0.52
1:B:441:LEU:HG	1:B:495:THR:HA	1.92	0.52
1:C:389:VAL:HG12	1:C:390:PRO:O	2.09	0.52
1:D:418:ARG:HD3	1:D:474:LEU:HD13	1.90	0.52
1:E:265:LYS:NZ	1:F:245:LEU:HA	2.17	0.52
1:E:503:ARG:HG2	1:E:507:ASP:OD2	2.10	0.52
1:F:503:ARG:HG2	1:F:507:ASP:OD2	2.10	0.52
1:G:386:LEU:HD12	1:G:386:LEU:N	2.23	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:503:ARG:HG2	1:H:507:ASP:OD2	2.10	0.52
1:I:441:LEU:HG	1:I:495:THR:HA	1.92	0.52
1:I:498:VAL:CG1	1:I:502:PHE:HE1	2.22	0.52
1:L:386:LEU:N	1:L:386:LEU:HD12	2.23	0.52
1:L:480:SER:HA	1:L:494:ASP:HB3	1.91	0.52
2:M:161:LEU:HD13	2:M:161:LEU:C	2.29	0.52
2:O:110:PHE:HE1	2:O:117:VAL:HB	1.74	0.52
2:R:136:ILE:HA	2:R:141:ILE:HG23	1.90	0.52
2:R:161:LEU:HD13	2:R:161:LEU:C	2.29	0.52
1:A:441:LEU:HG	1:A:495:THR:HA	1.92	0.52
1:B:480:SER:HA	1:B:494:ASP:HB3	1.91	0.52
1:C:355:VAL:HG22	1:C:356:GLU:N	2.24	0.52
1:D:389:VAL:HG12	1:D:390:PRO:O	2.09	0.52
1:D:503:ARG:HG2	1:D:507:ASP:OD2	2.10	0.52
1:F:464:ASN:HA	1:F:502:PHE:HZ	1.74	0.52
1:J:356:GLU:HA	1:J:381:LYS:HA	1.90	0.52
1:L:361:LEU:HD21	1:L:372:ILE:HB	1.90	0.52
2:P:136:ILE:HG22	2:P:137:THR:N	2.25	0.52
2:S:136:ILE:HG22	2:S:137:THR:N	2.25	0.52
2:T:136:ILE:HG22	2:T:137:THR:N	2.25	0.52
2:U:136:ILE:HG22	2:U:137:THR:N	2.25	0.52
2:V:110:PHE:HE1	2:V:117:VAL:HB	1.74	0.52
2:V:146:LEU:HA	2:V:156:SER:HA	1.91	0.52
1:A:469:GLY:HA3	1:L:343:PHE:CD1	2.42	0.52
1:E:361:LEU:HD21	1:E:372:ILE:HB	1.91	0.52
1:D:406:MET:CB	1:E:468:THR:CG2	2.79	0.52
1:G:389:VAL:HG12	1:G:390:PRO:O	2.09	0.52
1:H:343:PHE:N	1:I:470:ASN:N	2.53	0.52
1:H:441:LEU:HG	1:H:495:THR:HA	1.92	0.52
1:I:503:ARG:HG2	1:I:507:ASP:OD2	2.10	0.52
1:J:294:LEU:HD12	1:K:273:LEU:HD23	1.91	0.52
1:J:464:ASN:HA	1:J:502:PHE:HZ	1.74	0.52
1:K:355:VAL:HG22	1:K:356:GLU:N	2.24	0.52
1:K:389:VAL:HG12	1:K:390:PRO:O	2.09	0.52
1:K:482:LEU:HB2	1:K:490:LEU:HD11	1.92	0.52
2:N:146:LEU:HA	2:N:156:SER:HA	1.91	0.52
2:R:136:ILE:HG22	2:R:137:THR:N	2.25	0.52
2:V:136:ILE:HG22	2:V:137:THR:N	2.25	0.52
2:W:136:ILE:HG22	2:W:137:THR:N	2.25	0.52
1:L:347:LYS:CE	2:X:104:GLY:N	2.67	0.52
1:A:356:GLU:HA	1:A:381:LYS:HA	1.90	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:418:ARG:HD3	1:B:474:LEU:HD13	1.90	0.52
1:C:503:ARG:HG2	1:C:507:ASP:OD2	2.10	0.52
1:E:355:VAL:HG22	1:E:356:GLU:N	2.24	0.52
1:F:382:MET:HE1	1:F:384:LEU:CG	2.36	0.52
1:F:425:ASP:HA	1:F:428:PHE:HD2	1.74	0.52
1:H:457:ARG:HD2	1:H:484:ASP:OD2	2.10	0.52
1:H:498:VAL:CG1	1:H:502:PHE:HE1	2.22	0.52
1:J:355:VAL:HG22	1:J:356:GLU:N	2.24	0.52
1:J:418:ARG:HD3	1:J:474:LEU:HD13	1.90	0.52
1:J:482:LEU:HB2	1:J:490:LEU:HD11	1.92	0.52
1:J:503:ARG:HG2	1:J:507:ASP:OD2	2.10	0.52
2:O:161:LEU:C	2:O:161:LEU:HD13	2.29	0.52
2:Q:136:ILE:HG22	2:Q:137:THR:N	2.25	0.52
2:V:136:ILE:HA	2:V:141:ILE:HG23	1.90	0.52
2:W:102:LYS:HB3	2:W:107:VAL:HA	1.91	0.52
1:B:503:ARG:HG2	1:B:507:ASP:OD2	2.10	0.52
1:C:482:LEU:HB2	1:C:490:LEU:HD11	1.92	0.52
1:C:482:LEU:HD13	1:C:482:LEU:H	1.73	0.52
1:D:355:VAL:HG22	1:D:356:GLU:N	2.24	0.52
1:D:482:LEU:HB2	1:D:490:LEU:HD11	1.92	0.52
1:E:294:LEU:HD12	1:F:273:LEU:HD23	1.91	0.52
1:F:457:ARG:HD2	1:F:484:ASP:OD2	2.10	0.52
1:G:294:LEU:HD12	1:H:273:LEU:HD23	1.91	0.52
1:G:457:ARG:HD2	1:G:484:ASP:OD2	2.10	0.52
1:H:294:LEU:HD12	1:I:273:LEU:HD23	1.91	0.52
1:J:441:LEU:HG	1:J:495:THR:HA	1.92	0.52
1:K:294:LEU:HD12	1:L:273:LEU:HD23	1.91	0.52
2:M:136:ILE:HG22	2:M:137:THR:N	2.25	0.52
2:M:146:LEU:HA	2:M:156:SER:HA	1.91	0.52
2:T:136:ILE:HA	2:T:141:ILE:HG23	1.90	0.52
1:J:347:LYS:CE	2:V:104:GLY:N	2.67	0.52
2:W:161:LEU:HD13	2:W:161:LEU:C	2.29	0.52
2:X:102:LYS:HB3	2:X:107:VAL:HA	1.91	0.52
1:A:503:ARG:HG2	1:A:507:ASP:OD2	2.10	0.52
1:C:418:ARG:HD3	1:C:474:LEU:HD13	1.90	0.52
1:C:480:SER:HA	1:C:494:ASP:HB3	1.91	0.52
1:D:482:LEU:HD13	1:D:482:LEU:H	1.73	0.52
1:D:464:ASN:HA	1:D:502:PHE:HZ	1.74	0.52
1:E:407:ARG:HH21	1:E:409:GLN:HG3	1.75	0.52
1:E:416:ALA:CB	1:E:417:PRO:HD2	2.38	0.52
1:I:457:ARG:HD2	1:I:484:ASP:OD2	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:244:ALA:HB3	1:K:318:GLY:O	2.10	0.52
1:K:503:ARG:HG2	1:K:507:ASP:OD2	2.10	0.52
1:L:416:ALA:CB	1:L:417:PRO:HD2	2.38	0.52
2:N:136:ILE:HG22	2:N:137:THR:N	2.25	0.52
2:O:146:LEU:HA	2:O:156:SER:HA	1.91	0.52
2:R:146:LEU:HA	2:R:156:SER:HA	1.91	0.52
1:A:464:ASN:HA	1:A:502:PHE:HZ	1.74	0.52
1:B:244:ALA:HB3	1:B:318:GLY:O	2.10	0.52
1:B:347:LYS:HE3	2:N:104:GLY:CA	2.35	0.52
1:C:441:LEU:HG	1:C:495:THR:HA	1.92	0.52
1:D:244:ALA:HB3	1:D:318:GLY:O	2.10	0.52
1:E:498:VAL:CG1	1:E:502:PHE:HE1	2.22	0.52
1:F:357:ILE:HD12	1:F:379:ASN:HB3	1.92	0.52
1:I:355:VAL:HG22	1:I:356:GLU:N	2.24	0.52
1:K:294:LEU:HD12	1:L:273:LEU:CD2	2.40	0.52
1:L:357:ILE:HD12	1:L:379:ASN:HB3	1.92	0.52
1:L:503:ARG:HG2	1:L:507:ASP:OD2	2.10	0.52
2:M:102:LYS:HB3	2:M:107:VAL:HA	1.91	0.52
2:S:136:ILE:HA	2:S:141:ILE:HG23	1.90	0.52
1:K:347:LYS:CE	2:W:104:GLY:N	2.67	0.52
1:A:418:ARG:HD3	1:A:474:LEU:HD13	1.90	0.52
1:A:294:LEU:HD12	1:B:273:LEU:HD23	1.91	0.52
1:C:244:ALA:HB3	1:C:318:GLY:O	2.10	0.52
1:C:347:LYS:HE3	2:O:104:GLY:CA	2.35	0.52
1:D:361:LEU:HD21	1:D:372:ILE:HB	1.90	0.52
1:E:357:ILE:HD12	1:E:379:ASN:HB3	1.92	0.52
1:E:425:ASP:HA	1:E:428:PHE:HD2	1.74	0.52
1:E:464:ASN:HA	1:E:502:PHE:HZ	1.74	0.52
1:I:482:LEU:HB2	1:I:490:LEU:HD11	1.92	0.52
1:K:357:ILE:HD12	1:K:379:ASN:HB3	1.92	0.52
1:K:356:GLU:HA	1:K:381:LYS:HA	1.90	0.52
1:L:441:LEU:HG	1:L:495:THR:HA	1.92	0.52
2:Q:146:LEU:HA	2:Q:156:SER:HA	1.91	0.52
2:U:136:ILE:HA	2:U:141:ILE:HG23	1.90	0.52
1:A:361:LEU:HD21	1:A:372:ILE:HB	1.90	0.52
1:B:498:VAL:CG1	1:B:502:PHE:HE1	2.22	0.52
1:C:498:VAL:CG1	1:C:502:PHE:HE1	2.22	0.52
1:D:382:MET:HE1	1:D:384:LEU:CG	2.38	0.52
1:E:265:LYS:CE	1:F:245:LEU:HB3	2.25	0.52
1:D:294:LEU:HD12	1:E:273:LEU:HD23	1.91	0.52
1:E:294:LEU:HD12	1:F:273:LEU:CD2	2.40	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:407:ARG:HH21	1:G:409:GLN:HG3	1.75	0.52
1:H:480:SER:HA	1:H:494:ASP:HB3	1.91	0.52
1:I:480:SER:HA	1:I:494:ASP:HB3	1.91	0.52
1:J:457:ARG:HD2	1:J:484:ASP:OD2	2.10	0.52
1:J:480:SER:HA	1:J:494:ASP:HB3	1.91	0.52
1:L:356:GLU:HA	1:L:381:LYS:HA	1.90	0.52
1:L:355:VAL:HG22	1:L:356:GLU:N	2.24	0.52
1:L:482:LEU:HB2	1:L:490:LEU:HD11	1.92	0.52
2:T:110:PHE:HE1	2:T:117:VAL:HB	1.74	0.52
1:A:273:LEU:CD2	1:L:294:LEU:HD12	2.41	0.51
1:A:244:ALA:HB3	1:A:318:GLY:O	2.10	0.51
1:A:343:PHE:N	1:B:470:ASN:N	2.53	0.51
1:B:294:LEU:HD12	1:C:273:LEU:CD2	2.40	0.51
1:B:343:PHE:N	1:C:470:ASN:N	2.53	0.51
1:C:382:MET:HE1	1:C:384:LEU:CG	2.36	0.51
1:C:372:ILE:HG23	1:C:413:VAL:HG23	1.92	0.51
1:D:372:ILE:HG23	1:D:413:VAL:HG23	1.92	0.51
1:D:294:LEU:CG	1:E:273:LEU:HD21	2.27	0.51
1:E:482:LEU:HB2	1:E:490:LEU:HD11	1.92	0.51
1:F:389:VAL:HG12	1:F:390:PRO:O	2.09	0.51
1:G:357:ILE:HD12	1:G:379:ASN:HB3	1.92	0.51
1:G:498:VAL:CG1	1:G:502:PHE:HE1	2.22	0.51
1:I:347:LYS:HZ1	2:U:104:GLY:CA	2.06	0.51
1:J:244:ALA:HB3	1:J:318:GLY:O	2.10	0.51
1:J:294:LEU:HD12	1:K:273:LEU:CD2	2.40	0.51
1:K:418:ARG:HD3	1:K:474:LEU:HD13	1.90	0.51
2:M:110:PHE:HE1	2:M:117:VAL:HB	1.74	0.51
2:M:146:LEU:HG	2:M:156:SER:HA	1.92	0.51
2:N:102:LYS:HB3	2:N:107:VAL:HA	1.91	0.51
2:P:146:LEU:HA	2:P:156:SER:HA	1.91	0.51
2:W:136:ILE:HD12	2:W:136:ILE:N	2.26	0.51
2:X:146:LEU:HG	2:X:156:SER:HA	1.92	0.51
1:A:294:LEU:HD12	1:B:273:LEU:CD2	2.40	0.51
1:B:418:ARG:HD3	1:B:474:LEU:CD1	2.41	0.51
1:D:357:ILE:HD12	1:D:379:ASN:HB3	1.92	0.51
1:D:406:MET:HE2	1:D:415:ILE:HD11	1.91	0.51
1:D:498:VAL:CG1	1:D:502:PHE:HE1	2.22	0.51
1:E:389:VAL:HG12	1:E:390:PRO:O	2.09	0.51
1:F:416:ALA:CB	1:F:417:PRO:HD2	2.38	0.51
1:G:294:LEU:HD12	1:H:273:LEU:CD2	2.40	0.51
1:H:407:ARG:HH21	1:H:409:GLN:HG3	1.75	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:244:ALA:HB3	1:I:318:GLY:O	2.10	0.51
1:J:357:ILE:HD12	1:J:379:ASN:HB3	1.92	0.51
1:J:389:VAL:HG12	1:J:390:PRO:O	2.09	0.51
1:L:418:ARG:HD3	1:L:474:LEU:CD1	2.41	0.51
2:V:146:LEU:HG	2:V:156:SER:HA	1.92	0.51
2:W:146:LEU:HA	2:W:156:SER:HA	1.91	0.51
1:A:357:ILE:HD12	1:A:379:ASN:HB3	1.92	0.51
1:B:352:PHE:CG	1:B:360:ILE:HG22	2.45	0.51
1:B:372:ILE:HG23	1:B:413:VAL:HG23	1.93	0.51
1:B:482:LEU:HB2	1:B:490:LEU:HD11	1.92	0.51
1:C:361:LEU:HD21	1:C:372:ILE:HB	1.90	0.51
1:D:441:LEU:HG	1:D:495:THR:HA	1.92	0.51
1:E:457:ARG:HD2	1:E:484:ASP:OD2	2.10	0.51
1:F:480:SER:HA	1:F:494:ASP:HB3	1.91	0.51
1:F:498:VAL:CG1	1:F:502:PHE:HE1	2.22	0.51
1:I:357:ILE:HD12	1:I:379:ASN:HB3	1.92	0.51
1:K:406:MET:HE2	1:K:415:ILE:HD11	1.93	0.51
2:N:136:ILE:HD12	2:N:136:ILE:N	2.26	0.51
2:U:136:ILE:HD12	2:U:136:ILE:N	2.26	0.51
2:X:136:ILE:HG22	2:X:137:THR:N	2.25	0.51
1:B:361:LEU:HD21	1:B:372:ILE:HB	1.91	0.51
1:C:357:ILE:HD12	1:C:379:ASN:HB3	1.92	0.51
1:D:260:ILE:C	1:D:261:ILE:HD12	2.31	0.51
1:E:372:ILE:HG23	1:E:413:VAL:HG23	1.93	0.51
1:G:441:LEU:HG	1:G:495:THR:HA	1.92	0.51
1:H:294:LEU:HD12	1:I:273:LEU:CD2	2.40	0.51
1:H:482:LEU:HB2	1:H:490:LEU:HD11	1.92	0.51
1:K:260:ILE:C	1:K:261:ILE:HD12	2.31	0.51
1:L:244:ALA:HB3	1:L:318:GLY:O	2.10	0.51
1:L:372:ILE:HA	1:L:413:VAL:HG22	1.87	0.51
2:S:102:LYS:HB3	2:S:107:VAL:HA	1.91	0.51
2:V:136:ILE:HD12	2:V:136:ILE:N	2.26	0.51
2:X:146:LEU:HA	2:X:156:SER:HA	1.91	0.51
1:A:352:PHE:CG	1:A:360:ILE:HG22	2.45	0.51
1:A:480:SER:HA	1:A:494:ASP:HB3	1.91	0.51
1:B:357:ILE:HD12	1:B:379:ASN:HB3	1.92	0.51
1:D:407:ARG:HH21	1:D:409:GLN:HG3	1.75	0.51
1:E:441:LEU:HG	1:E:495:THR:HA	1.92	0.51
1:F:256:GLN:CD	1:G:231:ARG:HD2	2.29	0.51
1:G:367:GLU:O	1:G:368:SER:HB3	2.11	0.51
1:H:260:ILE:C	1:H:261:ILE:HD12	2.31	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:352:PHE:CG	1:H:360:ILE:HG22	2.45	0.51
1:J:257:HIS:CD2	1:K:232:LYS:CB	2.89	0.51
2:U:146:LEU:HG	2:U:156:SER:HA	1.92	0.51
2:W:146:LEU:HG	2:W:156:SER:HA	1.92	0.51
1:B:355:VAL:HG22	1:B:356:GLU:N	2.24	0.51
1:C:457:ARG:HD2	1:C:484:ASP:OD2	2.10	0.51
1:C:294:LEU:HD12	1:D:273:LEU:CD2	2.41	0.51
1:E:418:ARG:HD3	1:E:474:LEU:CD1	2.41	0.51
1:F:244:ALA:HB3	1:F:318:GLY:O	2.10	0.51
1:G:352:PHE:CG	1:G:360:ILE:HG22	2.45	0.51
1:H:357:ILE:HD12	1:H:379:ASN:HB3	1.92	0.51
1:I:260:ILE:C	1:I:261:ILE:HD12	2.31	0.51
1:I:256:GLN:CD	1:J:231:ARG:HD2	2.29	0.51
1:K:344:THR:O	1:K:344:THR:HG23	2.11	0.51
1:K:457:ARG:HD2	1:K:484:ASP:OD2	2.10	0.51
1:K:441:LEU:HG	1:K:495:THR:HA	1.92	0.51
1:L:344:THR:HG23	1:L:344:THR:O	2.11	0.51
2:M:143:LEU:O	2:M:158:LYS:HG3	2.11	0.51
2:O:102:LYS:HB3	2:O:107:VAL:HA	1.91	0.51
2:O:136:ILE:N	2:O:136:ILE:HD12	2.26	0.51
2:P:136:ILE:N	2:P:136:ILE:HD12	2.26	0.51
2:P:143:LEU:O	2:P:158:LYS:HG3	2.11	0.51
2:T:136:ILE:N	2:T:136:ILE:HD12	2.26	0.51
1:A:260:ILE:C	1:A:261:ILE:HD12	2.31	0.51
1:A:372:ILE:HG23	1:A:413:VAL:HG23	1.92	0.51
1:B:260:ILE:C	1:B:261:ILE:HD12	2.31	0.51
1:B:367:GLU:O	1:B:368:SER:HB3	2.11	0.51
1:A:343:PHE:CD1	1:B:469:GLY:HA3	2.42	0.51
1:B:482:LEU:H	1:B:482:LEU:HD13	1.73	0.51
1:C:352:PHE:CG	1:C:360:ILE:HG22	2.45	0.51
1:E:260:ILE:C	1:E:261:ILE:HD12	2.31	0.51
1:E:480:SER:HA	1:E:494:ASP:HB3	1.91	0.51
1:F:372:ILE:HG23	1:F:413:VAL:HG23	1.92	0.51
1:G:480:SER:HA	1:G:494:ASP:HB3	1.91	0.51
1:K:416:ALA:CB	1:K:417:PRO:HD2	2.38	0.51
2:N:146:LEU:HG	2:N:156:SER:HA	1.92	0.51
2:O:136:ILE:HG22	2:O:137:THR:N	2.25	0.51
2:P:162:LEU:O	2:P:162:LEU:HG	2.11	0.51
1:C:418:ARG:HD3	1:C:474:LEU:CD1	2.41	0.51
1:D:347:LYS:HE3	2:P:104:GLY:CA	2.35	0.51
1:D:367:GLU:O	1:D:368:SER:HB3	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:418:ARG:HD3	1:D:474:LEU:CD1	2.41	0.51
1:E:244:ALA:HB3	1:E:318:GLY:O	2.10	0.51
1:D:294:LEU:HD12	1:E:273:LEU:CD2	2.40	0.51
1:F:260:ILE:C	1:F:261:ILE:HD12	2.31	0.51
1:F:352:PHE:CG	1:F:360:ILE:HG22	2.45	0.51
1:G:265:LYS:NZ	1:H:245:LEU:CA	2.35	0.51
1:I:257:HIS:CD2	1:J:232:LYS:CB	2.89	0.51
1:I:352:PHE:CG	1:I:360:ILE:HG22	2.45	0.51
1:I:367:GLU:O	1:I:368:SER:HB3	2.11	0.51
1:J:344:THR:O	1:J:344:THR:HG23	2.11	0.51
1:K:407:ARG:HH21	1:K:409:GLN:HG3	1.75	0.51
1:L:407:ARG:HH21	1:L:409:GLN:HG3	1.75	0.51
2:M:136:ILE:HD12	2:M:136:ILE:N	2.26	0.51
2:U:162:LEU:HG	2:U:162:LEU:O	2.11	0.51
2:X:91:SER:O	2:X:95:MET:HG3	2.11	0.51
1:A:344:THR:HG23	1:A:344:THR:O	2.11	0.51
1:B:407:ARG:HH21	1:B:409:GLN:HG3	1.75	0.51
1:D:457:ARG:HD2	1:D:484:ASP:OD2	2.10	0.51
1:F:482:LEU:HB2	1:F:490:LEU:HD11	1.92	0.51
1:G:244:ALA:HB3	1:G:318:GLY:O	2.10	0.51
1:G:482:LEU:HB2	1:G:490:LEU:HD11	1.92	0.51
1:I:294:LEU:HD12	1:J:273:LEU:CD2	2.41	0.51
1:I:294:LEU:CG	1:J:273:LEU:HD21	2.27	0.51
1:J:418:ARG:HD3	1:J:474:LEU:CD1	2.41	0.51
2:M:148:GLU:O	2:M:149:ASP:HB2	2.11	0.51
2:O:148:GLU:O	2:O:149:ASP:HB2	2.11	0.51
2:P:102:LYS:HB3	2:P:107:VAL:HA	1.91	0.51
2:W:143:LEU:O	2:W:158:LYS:HG3	2.11	0.51
2:W:148:GLU:O	2:W:149:ASP:HB2	2.11	0.51
2:W:91:SER:O	2:W:95:MET:HG3	2.11	0.51
2:X:162:LEU:O	2:X:162:LEU:HG	2.11	0.51
1:A:457:ARG:HD2	1:A:484:ASP:OD2	2.10	0.51
1:D:416:ALA:CB	1:D:417:PRO:HD2	2.38	0.51
1:E:352:PHE:CG	1:E:360:ILE:HG22	2.45	0.51
1:E:367:GLU:O	1:E:368:SER:HB3	2.11	0.51
1:F:441:LEU:HG	1:F:495:THR:HA	1.92	0.51
1:H:244:ALA:HB3	1:H:318:GLY:O	2.10	0.51
1:I:256:GLN:OE1	1:J:230:PHE:O	2.30	0.51
1:I:416:ALA:CB	1:I:417:PRO:HD2	2.38	0.51
1:J:407:ARG:HH21	1:J:409:GLN:HG3	1.75	0.51
1:L:352:PHE:CG	1:L:360:ILE:HG22	2.45	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:143:LEU:O	2:N:158:LYS:HG3	2.11	0.51
2:Q:136:ILE:HD12	2:Q:136:ILE:N	2.26	0.51
2:R:124:ASN:O	2:R:132:ARG:HA	2.11	0.51
2:S:162:LEU:HG	2:S:162:LEU:O	2.11	0.51
1:A:230:PHE:O	1:L:256:GLN:OE1	2.30	0.50
1:A:257:HIS:CD2	1:B:232:LYS:CB	2.89	0.50
1:B:457:ARG:HD2	1:B:484:ASP:OD2	2.10	0.50
1:F:385:SER:C	1:F:386:LEU:HD12	2.32	0.50
1:I:344:THR:O	1:I:344:THR:HG23	2.11	0.50
1:J:256:GLN:OE1	1:K:230:PHE:O	2.30	0.50
1:K:256:GLN:OE1	1:L:230:PHE:O	2.30	0.50
1:K:418:ARG:HD3	1:K:474:LEU:CD1	2.41	0.50
1:L:372:ILE:HG23	1:L:413:VAL:HG23	1.92	0.50
2:M:124:ASN:O	2:M:132:ARG:HA	2.11	0.50
2:M:162:LEU:HG	2:M:162:LEU:O	2.11	0.50
2:N:162:LEU:HG	2:N:162:LEU:O	2.11	0.50
2:O:143:LEU:O	2:O:158:LYS:HG3	2.11	0.50
2:W:162:LEU:O	2:W:162:LEU:HG	2.11	0.50
2:W:96:ARG:O	2:W:111:ILE:HG23	2.12	0.50
1:A:407:ARG:HH21	1:A:409:GLN:HG3	1.75	0.50
1:B:382:MET:HE1	1:B:384:LEU:CG	2.41	0.50
1:C:343:PHE:CD1	1:D:469:GLY:HA3	2.42	0.50
1:G:372:ILE:HG23	1:G:413:VAL:HG23	1.92	0.50
1:G:448:LEU:N	1:G:448:LEU:HD22	2.26	0.50
1:H:256:GLN:OE1	1:I:230:PHE:O	2.30	0.50
1:L:457:ARG:HD2	1:L:484:ASP:OD2	2.10	0.50
2:O:124:ASN:O	2:O:132:ARG:HA	2.11	0.50
2:P:148:GLU:O	2:P:149:ASP:HB2	2.11	0.50
2:Q:102:LYS:HB3	2:Q:107:VAL:HA	1.91	0.50
2:T:124:ASN:O	2:T:132:ARG:HA	2.12	0.50
2:T:143:LEU:O	2:T:158:LYS:HG3	2.11	0.50
2:V:148:GLU:O	2:V:149:ASP:HB2	2.11	0.50
2:V:162:LEU:HG	2:V:162:LEU:O	2.11	0.50
2:X:96:ARG:O	2:X:111:ILE:HG23	2.12	0.50
2:X:136:ILE:HD12	2:X:136:ILE:N	2.26	0.50
2:X:148:GLU:O	2:X:149:ASP:HB2	2.11	0.50
1:A:256:GLN:OE1	1:B:230:PHE:O	2.30	0.50
1:B:344:THR:O	1:B:344:THR:HG23	2.11	0.50
1:E:257:HIS:CD2	1:F:232:LYS:CB	2.89	0.50
1:F:367:GLU:O	1:F:368:SER:HB3	2.11	0.50
1:F:407:ARG:HH21	1:F:409:GLN:HG3	1.75	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:260:ILE:C	1:G:261:ILE:HD12	2.31	0.50
1:H:448:LEU:N	1:H:448:LEU:HD22	2.26	0.50
1:J:228:ILE:HG13	1:J:291:LEU:HD22	1.94	0.50
1:J:352:PHE:CG	1:J:360:ILE:HG22	2.45	0.50
1:K:228:ILE:HG13	1:K:291:LEU:HD22	1.94	0.50
1:K:385:SER:C	1:K:386:LEU:HD12	2.32	0.50
1:L:260:ILE:C	1:L:261:ILE:HD12	2.31	0.50
1:L:385:SER:C	1:L:386:LEU:HD12	2.32	0.50
1:L:482:LEU:H	1:L:482:LEU:HD13	1.73	0.50
1:L:498:VAL:CG1	1:L:502:PHE:CE1	2.95	0.50
2:O:146:LEU:HG	2:O:156:SER:HA	1.92	0.50
2:R:102:LYS:HB3	2:R:107:VAL:HA	1.91	0.50
2:T:146:LEU:HG	2:T:156:SER:HA	1.92	0.50
1:A:482:LEU:HB2	1:A:490:LEU:HD11	1.92	0.50
1:C:260:ILE:C	1:C:261:ILE:HD12	2.31	0.50
1:D:352:PHE:CG	1:D:360:ILE:HG22	2.45	0.50
1:D:480:SER:HA	1:D:494:ASP:HB3	1.91	0.50
1:E:385:SER:C	1:E:386:LEU:HD12	2.32	0.50
1:G:418:ARG:HD3	1:G:474:LEU:CD1	2.41	0.50
1:H:257:HIS:HE2	1:I:232:LYS:C	2.14	0.50
1:I:385:SER:C	1:I:386:LEU:HD12	2.32	0.50
1:I:418:ARG:HD3	1:I:474:LEU:CD1	2.41	0.50
1:J:385:SER:C	1:J:386:LEU:HD12	2.32	0.50
1:K:498:VAL:CG1	1:K:502:PHE:CE1	2.95	0.50
1:K:343:PHE:CB	1:L:469:GLY:C	2.42	0.50
1:A:459:ILE:HG21	1:L:487:THR:HG21	1.94	0.50
2:M:91:SER:O	2:M:95:MET:HG3	2.11	0.50
2:P:124:ASN:O	2:P:132:ARG:HA	2.11	0.50
2:Q:146:LEU:HG	2:Q:156:SER:HA	1.92	0.50
2:R:143:LEU:O	2:R:158:LYS:HG3	2.11	0.50
2:R:146:LEU:HG	2:R:156:SER:HA	1.92	0.50
2:S:96:ARG:O	2:S:111:ILE:HG23	2.12	0.50
2:V:96:ARG:O	2:V:111:ILE:HG23	2.12	0.50
1:A:464:ASN:CA	1:A:502:PHE:HZ	2.25	0.50
1:A:418:ARG:HD3	1:A:474:LEU:CD1	2.41	0.50
1:A:498:VAL:CG1	1:A:502:PHE:CE1	2.95	0.50
1:B:416:ALA:CB	1:B:417:PRO:HD2	2.38	0.50
1:F:448:LEU:N	1:F:448:LEU:HD22	2.27	0.50
1:G:343:PHE:CD1	1:H:469:GLY:HA3	2.42	0.50
1:I:445:ASN:HD22	1:I:445:ASN:H	1.60	0.50
1:J:445:ASN:H	1:J:445:ASN:HD22	1.60	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:367:GLU:O	1:K:368:SER:HB3	2.11	0.50
1:K:487:THR:HG21	1:L:459:ILE:HG21	1.93	0.50
1:L:367:GLU:O	1:L:368:SER:HB3	2.11	0.50
1:L:425:ASP:HA	1:L:428:PHE:HD2	1.74	0.50
2:O:91:SER:O	2:O:95:MET:HG3	2.11	0.50
2:P:91:SER:O	2:P:95:MET:HG3	2.11	0.50
2:Q:91:SER:O	2:Q:95:MET:HG3	2.11	0.50
2:R:91:SER:O	2:R:95:MET:HG3	2.11	0.50
2:S:91:SER:O	2:S:95:MET:HG3	2.11	0.50
1:A:231:ARG:HD2	1:L:256:GLN:CD	2.29	0.50
1:B:228:ILE:HG13	1:B:291:LEU:HD22	1.94	0.50
1:C:228:ILE:HG13	1:C:291:LEU:HD22	1.94	0.50
1:C:367:GLU:O	1:C:368:SER:HB3	2.11	0.50
1:C:407:ARG:HH21	1:C:409:GLN:HG3	1.75	0.50
1:D:228:ILE:HG13	1:D:291:LEU:HD22	1.94	0.50
1:D:385:SER:C	1:D:386:LEU:HD12	2.32	0.50
1:G:256:GLN:OE1	1:H:230:PHE:O	2.30	0.50
1:H:228:ILE:HG13	1:H:291:LEU:HD22	1.94	0.50
1:H:372:ILE:HG23	1:H:413:VAL:HG23	1.93	0.50
1:H:385:SER:C	1:H:386:LEU:HD12	2.32	0.50
1:H:445:ASN:HD22	1:H:445:ASN:H	1.60	0.50
1:I:228:ILE:HG13	1:I:291:LEU:HD22	1.94	0.50
1:I:407:ARG:HH21	1:I:409:GLN:HG3	1.75	0.50
1:J:498:VAL:CG1	1:J:502:PHE:CE1	2.95	0.50
1:K:372:ILE:HG23	1:K:413:VAL:HG23	1.93	0.50
1:L:422:LEU:N	1:L:422:LEU:HD12	2.27	0.50
2:N:96:ARG:O	2:N:111:ILE:HG23	2.12	0.50
2:Q:96:ARG:O	2:Q:111:ILE:HG23	2.12	0.50
2:S:136:ILE:N	2:S:136:ILE:HD12	2.26	0.50
2:V:124:ASN:O	2:V:132:ARG:HA	2.11	0.50
2:V:91:SER:O	2:V:95:MET:HG3	2.11	0.50
1:A:367:GLU:O	1:A:368:SER:HB3	2.11	0.50
1:A:385:SER:C	1:A:386:LEU:HD12	2.32	0.50
1:A:448:LEU:HD22	1:A:448:LEU:N	2.26	0.50
1:B:385:SER:C	1:B:386:LEU:HD12	2.32	0.50
1:B:464:ASN:CA	1:B:502:PHE:HZ	2.25	0.50
1:B:256:GLN:OE1	1:C:230:PHE:O	2.30	0.50
1:B:256:GLN:CD	1:C:231:ARG:HD2	2.29	0.50
1:C:344:THR:O	1:C:344:THR:HG23	2.11	0.50
1:C:406:MET:CE	1:C:415:ILE:HD11	2.42	0.50
1:C:416:ALA:CB	1:C:417:PRO:HD2	2.38	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:425:ASP:HA	1:C:428:PHE:HD2	1.74	0.50
1:E:448:LEU:N	1:E:448:LEU:HD22	2.26	0.50
1:F:406:MET:HE2	1:F:415:ILE:HD11	1.94	0.50
1:G:228:ILE:HG13	1:G:291:LEU:HD22	1.94	0.50
1:H:422:LEU:HD12	1:H:422:LEU:N	2.27	0.50
1:I:265:LYS:CE	1:J:245:LEU:HB3	2.26	0.50
1:I:372:ILE:HG23	1:I:413:VAL:HG23	1.92	0.50
1:I:448:LEU:N	1:I:448:LEU:HD22	2.27	0.50
1:I:483:ILE:HG13	1:I:491:ILE:HB	1.93	0.50
1:J:260:ILE:C	1:J:261:ILE:HD12	2.31	0.50
2:N:148:GLU:O	2:N:149:ASP:HB2	2.11	0.50
2:O:96:ARG:O	2:O:111:ILE:HG23	2.12	0.50
2:P:147:ILE:O	2:P:147:ILE:HD12	2.12	0.50
2:S:148:GLU:O	2:S:149:ASP:HB2	2.11	0.50
2:T:91:SER:O	2:T:95:MET:HG3	2.11	0.50
2:T:96:ARG:O	2:T:111:ILE:HG23	2.12	0.50
2:U:143:LEU:O	2:U:158:LYS:HG3	2.11	0.50
2:W:147:ILE:O	2:W:147:ILE:HD12	2.12	0.50
1:D:256:GLN:CD	1:E:231:ARG:HD2	2.29	0.50
1:E:228:ILE:HG13	1:E:291:LEU:HD22	1.94	0.50
1:E:343:PHE:CD1	1:F:469:GLY:HA3	2.42	0.50
1:F:228:ILE:HG13	1:F:291:LEU:HD22	1.94	0.50
1:F:344:THR:HG23	1:F:344:THR:O	2.11	0.50
1:G:445:ASN:H	1:G:445:ASN:HD22	1.60	0.50
1:H:344:THR:HG23	1:H:344:THR:O	2.11	0.50
1:I:343:PHE:N	1:J:470:ASN:N	2.53	0.50
1:I:422:LEU:N	1:I:422:LEU:HD12	2.27	0.50
1:J:372:ILE:HG23	1:J:413:VAL:HG23	1.92	0.50
1:J:448:LEU:N	1:J:448:LEU:HD22	2.26	0.50
1:L:228:ILE:HG13	1:L:291:LEU:HD22	1.94	0.50
2:Q:147:ILE:O	2:Q:147:ILE:HD12	2.12	0.50
2:Q:162:LEU:HG	2:Q:162:LEU:O	2.11	0.50
2:U:96:ARG:O	2:U:111:ILE:HG23	2.12	0.50
1:A:228:ILE:HG13	1:A:291:LEU:HD22	1.94	0.50
1:B:498:VAL:CG1	1:B:502:PHE:CE1	2.95	0.50
1:C:385:SER:C	1:C:386:LEU:HD12	2.32	0.50
1:D:422:LEU:N	1:D:422:LEU:HD12	2.27	0.50
1:D:445:ASN:HD22	1:D:445:ASN:H	1.60	0.50
1:E:382:MET:HE1	1:E:384:LEU:CG	2.39	0.50
1:E:406:MET:CE	1:E:415:ILE:HD11	2.42	0.50
1:E:445:ASN:HD22	1:E:445:ASN:H	1.60	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:294:LEU:HD12	1:G:273:LEU:CD2	2.41	0.50
1:G:498:VAL:CG1	1:G:502:PHE:CE1	2.95	0.50
1:G:294:LEU:CG	1:H:273:LEU:HD21	2.27	0.50
1:H:406:MET:CE	1:H:415:ILE:HD11	2.42	0.50
1:K:265:LYS:CE	1:L:245:LEU:HB3	2.25	0.50
1:K:352:PHE:CG	1:K:360:ILE:HG22	2.45	0.50
1:K:422:LEU:N	1:K:422:LEU:HD12	2.27	0.50
1:K:445:ASN:HD22	1:K:445:ASN:H	1.60	0.50
1:L:406:MET:CE	1:L:415:ILE:HD11	2.42	0.50
2:N:91:SER:O	2:N:95:MET:HG3	2.11	0.50
2:R:136:ILE:HD12	2:R:136:ILE:N	2.26	0.50
2:S:146:LEU:HG	2:S:156:SER:HA	1.92	0.50
2:T:148:GLU:O	2:T:149:ASP:HB2	2.11	0.50
1:A:406:MET:CE	1:A:415:ILE:HD11	2.42	0.49
1:C:256:GLN:OE1	1:D:230:PHE:O	2.30	0.49
1:B:447:GLN:CG	1:C:508:GLU:CD	2.47	0.49
1:D:408:GLN:CB	1:D:413:VAL:HG12	2.42	0.49
1:E:422:LEU:N	1:E:422:LEU:HD12	2.27	0.49
1:G:257:HIS:CD2	1:H:232:LYS:CB	2.89	0.49
1:G:344:THR:HG23	1:G:344:THR:O	2.11	0.49
1:G:385:SER:C	1:G:386:LEU:HD12	2.32	0.49
1:G:408:GLN:CB	1:G:413:VAL:HG12	2.42	0.49
2:M:96:ARG:O	2:M:111:ILE:HG23	2.12	0.49
2:Q:124:ASN:O	2:Q:132:ARG:HA	2.12	0.49
2:Q:143:LEU:O	2:Q:158:LYS:HG3	2.11	0.49
2:R:96:ARG:O	2:R:111:ILE:HG23	2.12	0.49
2:S:143:LEU:O	2:S:158:LYS:HG3	2.11	0.49
1:I:351:ASP:OD2	2:U:100:ILE:N	2.45	0.49
2:V:143:LEU:O	2:V:158:LYS:HG3	2.11	0.49
2:X:124:ASN:O	2:X:132:ARG:HA	2.11	0.49
1:B:406:MET:CE	1:B:415:ILE:HD11	2.42	0.49
1:B:448:LEU:N	1:B:448:LEU:HD22	2.26	0.49
1:C:493:THR:O	1:C:494:ASP:HB3	2.12	0.49
1:D:256:GLN:OE1	1:E:230:PHE:O	2.30	0.49
1:D:344:THR:O	1:D:344:THR:HG23	2.11	0.49
1:D:493:THR:O	1:D:494:ASP:HB3	2.13	0.49
1:E:408:GLN:CB	1:E:413:VAL:HG12	2.43	0.49
1:E:498:VAL:CG1	1:E:502:PHE:CE1	2.95	0.49
1:F:408:GLN:CB	1:F:413:VAL:HG12	2.43	0.49
1:F:422:LEU:HD12	1:F:422:LEU:N	2.27	0.49
1:F:445:ASN:HD22	1:F:445:ASN:H	1.60	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:406:MET:CE	1:G:415:ILE:HD11	2.42	0.49
1:H:408:GLN:CB	1:H:413:VAL:HG12	2.43	0.49
1:H:425:ASP:HA	1:H:428:PHE:HD2	1.74	0.49
1:I:498:VAL:CG1	1:I:502:PHE:CE1	2.95	0.49
1:J:367:GLU:O	1:J:368:SER:HB3	2.11	0.49
1:J:406:MET:CE	1:J:415:ILE:HD11	2.42	0.49
1:J:487:THR:HG21	1:K:459:ILE:HG21	1.94	0.49
1:K:464:ASN:CA	1:K:502:PHE:HZ	2.25	0.49
2:P:146:LEU:HG	2:P:156:SER:HA	1.92	0.49
2:U:91:SER:O	2:U:95:MET:HG3	2.11	0.49
2:W:124:ASN:O	2:W:132:ARG:HA	2.12	0.49
1:B:422:LEU:HD12	1:B:422:LEU:N	2.27	0.49
1:C:422:LEU:N	1:C:422:LEU:HD12	2.27	0.49
1:C:481:VAL:HG22	1:C:482:LEU:N	2.28	0.49
1:D:498:VAL:CG1	1:D:502:PHE:CE1	2.95	0.49
1:E:256:GLN:OE1	1:F:230:PHE:O	2.30	0.49
1:E:344:THR:HG23	1:E:344:THR:O	2.11	0.49
1:E:493:THR:O	1:E:494:ASP:HB3	2.13	0.49
1:F:418:ARG:HD3	1:F:474:LEU:CD1	2.41	0.49
1:G:464:ASN:CA	1:G:502:PHE:HZ	2.25	0.49
1:H:367:GLU:O	1:H:368:SER:HB3	2.11	0.49
1:H:418:ARG:HD3	1:H:474:LEU:CD1	2.41	0.49
1:I:257:HIS:HE2	1:J:232:LYS:C	2.14	0.49
1:H:400:GLN:HG3	1:I:478:ARG:HD3	1.94	0.49
1:J:425:ASP:HA	1:J:428:PHE:HD2	1.74	0.49
2:N:124:ASN:O	2:N:132:ARG:HA	2.12	0.49
2:R:162:LEU:HG	2:R:162:LEU:O	2.11	0.49
1:H:351:ASP:OD2	2:T:100:ILE:N	2.45	0.49
2:U:147:ILE:HD12	2:U:147:ILE:O	2.12	0.49
2:X:143:LEU:O	2:X:158:LYS:HG3	2.11	0.49
2:X:147:ILE:O	2:X:147:ILE:HD12	2.12	0.49
1:B:408:GLN:CB	1:B:413:VAL:HG12	2.43	0.49
1:C:445:ASN:H	1:C:445:ASN:HD22	1.60	0.49
1:D:448:LEU:N	1:D:448:LEU:HD22	2.26	0.49
1:F:256:GLN:OE1	1:G:230:PHE:O	2.30	0.49
1:F:389:VAL:HG23	1:G:376:ASP:CG	2.28	0.49
1:I:424:LYS:CG	1:I:428:PHE:CZ	2.93	0.49
1:L:448:LEU:N	1:L:448:LEU:HD22	2.27	0.49
1:L:493:THR:O	1:L:494:ASP:HB3	2.12	0.49
1:A:416:ALA:CB	1:A:417:PRO:HD2	2.38	0.49
1:A:445:ASN:H	1:A:445:ASN:HD22	1.60	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:493:THR:O	1:A:494:ASP:HB3	2.13	0.49
1:B:348:ILE:HD13	1:B:391:TRP:HB3	1.95	0.49
1:B:445:ASN:HD22	1:B:445:ASN:H	1.60	0.49
1:B:481:VAL:HG22	1:B:482:LEU:N	2.28	0.49
1:B:483:ILE:HG13	1:B:491:ILE:HB	1.93	0.49
1:B:294:LEU:CD1	1:C:273:LEU:HD22	2.43	0.49
1:C:348:ILE:HD13	1:C:391:TRP:HB3	1.95	0.49
1:C:498:VAL:CG1	1:C:502:PHE:CE1	2.95	0.49
1:C:294:LEU:CD1	1:D:273:LEU:HD22	2.43	0.49
1:D:348:ILE:HD13	1:D:391:TRP:HB3	1.95	0.49
1:D:511:VAL:CB	1:D:512:PRO:HD3	2.43	0.49
1:E:348:ILE:HD13	1:E:391:TRP:HB3	1.95	0.49
1:E:400:GLN:HG3	1:F:478:ARG:HD3	1.94	0.49
1:D:400:GLN:HG3	1:E:478:ARG:HD3	1.95	0.49
1:F:498:VAL:CG1	1:F:502:PHE:CE1	2.95	0.49
1:H:265:LYS:NZ	1:I:245:LEU:CA	2.35	0.49
1:G:389:VAL:HG23	1:H:376:ASP:CG	2.28	0.49
1:G:400:GLN:HG3	1:H:478:ARG:HD3	1.95	0.49
1:K:408:GLN:CB	1:K:413:VAL:HG12	2.43	0.49
1:K:448:LEU:HD22	1:K:448:LEU:N	2.26	0.49
2:M:147:ILE:HD12	2:M:147:ILE:O	2.12	0.49
2:P:96:ARG:O	2:P:111:ILE:HG23	2.12	0.49
2:R:148:GLU:O	2:R:149:ASP:HB2	2.11	0.49
2:S:147:ILE:HD12	2:S:147:ILE:O	2.12	0.49
2:T:147:ILE:O	2:T:147:ILE:HD12	2.12	0.49
2:U:124:ASN:O	2:U:132:ARG:HA	2.11	0.49
1:J:351:ASP:OD2	2:V:100:ILE:N	2.45	0.49
1:A:348:ILE:HD13	1:A:391:TRP:HB3	1.95	0.49
1:B:351:ASP:OD2	2:N:100:ILE:N	2.45	0.49
1:D:424:LYS:CG	1:D:428:PHE:CZ	2.93	0.49
1:D:481:VAL:HG22	1:D:482:LEU:N	2.28	0.49
1:F:493:THR:O	1:F:494:ASP:HB3	2.12	0.49
1:G:354:ASP:CA	1:G:383:THR:HG22	2.43	0.49
1:H:357:ILE:CA	1:H:360:ILE:HG12	2.43	0.49
1:I:425:ASP:HA	1:I:428:PHE:HD2	1.74	0.49
1:K:425:ASP:HA	1:K:428:PHE:HD2	1.74	0.49
1:L:445:ASN:H	1:L:445:ASN:HD22	1.60	0.49
2:N:147:ILE:HD12	2:N:147:ILE:O	2.12	0.49
2:S:124:ASN:O	2:S:132:ARG:HA	2.11	0.49
2:T:162:LEU:HG	2:T:162:LEU:O	2.11	0.49
1:A:511:VAL:CB	1:A:512:PRO:HD3	2.43	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:389:VAL:HG23	1:F:376:ASP:CG	2.28	0.49
1:F:464:ASN:CA	1:F:502:PHE:HZ	2.25	0.49
1:H:483:ILE:HG13	1:H:491:ILE:HB	1.93	0.49
1:H:493:THR:O	1:H:494:ASP:HB3	2.13	0.49
1:H:498:VAL:CG1	1:H:502:PHE:CE1	2.95	0.49
1:I:481:VAL:HG22	1:I:482:LEU:N	2.28	0.49
1:J:357:ILE:CA	1:J:360:ILE:HG12	2.43	0.49
1:J:493:THR:O	1:J:494:ASP:HB3	2.13	0.49
1:K:511:VAL:CB	1:K:512:PRO:HD3	2.43	0.49
2:O:147:ILE:O	2:O:147:ILE:HD12	2.12	0.49
2:O:162:LEU:O	2:O:162:LEU:HG	2.11	0.49
2:R:147:ILE:O	2:R:147:ILE:HD12	2.12	0.49
2:S:97:TYR:CE1	2:S:141:ILE:HD11	2.48	0.49
1:A:422:LEU:HD12	1:A:422:LEU:N	2.27	0.49
1:C:408:GLN:CB	1:C:413:VAL:HG12	2.43	0.49
1:C:448:LEU:N	1:C:448:LEU:HD22	2.27	0.49
1:E:464:ASN:HA	1:E:464:ASN:HD22	1.41	0.49
1:F:348:ILE:HD13	1:F:391:TRP:HB3	1.95	0.49
1:F:406:MET:CE	1:F:415:ILE:HD11	2.42	0.49
1:I:408:GLN:CB	1:I:413:VAL:HG12	2.43	0.49
1:J:382:MET:HE1	1:J:384:LEU:CD1	2.43	0.49
1:J:430:GLN:HB3	1:J:430:GLN:HE21	1.42	0.49
1:J:511:VAL:CB	1:J:512:PRO:HD3	2.43	0.49
1:K:348:ILE:HD13	1:K:391:TRP:HB3	1.95	0.49
2:M:97:TYR:CE1	2:M:141:ILE:HD11	2.48	0.49
2:N:97:TYR:CE1	2:N:141:ILE:HD11	2.48	0.49
2:Q:148:GLU:O	2:Q:149:ASP:HB2	2.11	0.49
2:U:148:GLU:O	2:U:149:ASP:HB2	2.11	0.49
1:A:408:GLN:CB	1:A:413:VAL:HG12	2.42	0.49
1:B:511:VAL:CB	1:B:512:PRO:HD3	2.43	0.49
1:D:307:ASN:CB	2:P:162:LEU:HD12	2.43	0.49
1:E:464:ASN:CA	1:E:502:PHE:HZ	2.25	0.49
1:G:307:ASN:CB	2:S:162:LEU:HD12	2.43	0.49
1:G:347:LYS:HZ1	2:S:104:GLY:CA	2.08	0.49
1:G:422:LEU:N	1:G:422:LEU:HD12	2.27	0.49
1:H:348:ILE:HD13	1:H:391:TRP:HB3	1.95	0.49
1:H:430:GLN:HB3	1:H:430:GLN:HE21	1.42	0.49
1:H:256:GLN:NE2	1:I:231:ARG:CD	2.48	0.49
1:J:408:GLN:CB	1:J:413:VAL:HG12	2.42	0.49
1:J:481:VAL:HG22	1:J:482:LEU:N	2.28	0.49
1:K:493:THR:O	1:K:494:ASP:HB3	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:481:VAL:HG22	1:A:482:LEU:N	2.28	0.49
1:C:408:GLN:HB3	1:C:408:GLN:HE22	0.98	0.49
1:D:406:MET:CE	1:D:415:ILE:HD11	2.42	0.49
1:E:351:ASP:OD2	2:Q:100:ILE:N	2.45	0.49
1:E:357:ILE:CA	1:E:360:ILE:HG12	2.43	0.49
1:E:511:VAL:CB	1:E:512:PRO:HD3	2.43	0.49
1:F:390:PRO:HB2	1:F:392:ASP:OD1	2.13	0.49
1:G:352:PHE:CG	1:G:360:ILE:CG2	2.96	0.49
1:G:348:ILE:HD13	1:G:391:TRP:HB3	1.95	0.49
1:G:390:PRO:HB2	1:G:392:ASP:OD1	2.13	0.49
1:H:352:PHE:CG	1:H:360:ILE:CG2	2.96	0.49
1:I:352:PHE:CG	1:I:360:ILE:CG2	2.96	0.49
1:I:487:THR:HG21	1:J:459:ILE:HG21	1.94	0.49
1:J:352:PHE:CG	1:J:360:ILE:CG2	2.96	0.49
1:J:348:ILE:HD13	1:J:391:TRP:HB3	1.95	0.49
1:J:422:LEU:HD12	1:J:422:LEU:N	2.27	0.49
1:K:390:PRO:HB2	1:K:392:ASP:OD1	2.13	0.49
1:K:406:MET:CE	1:K:415:ILE:HD11	2.42	0.49
1:L:357:ILE:CA	1:L:360:ILE:HG12	2.43	0.49
1:L:348:ILE:HD13	1:L:391:TRP:HB3	1.95	0.49
1:L:464:ASN:CA	1:L:502:PHE:HZ	2.25	0.49
1:A:351:ASP:OD2	2:M:100:ILE:N	2.45	0.49
1:C:351:ASP:OD2	2:O:100:ILE:N	2.45	0.49
2:R:111:ILE:CG2	2:R:112:GLU:N	2.76	0.49
1:G:351:ASP:OD2	2:S:100:ILE:N	2.45	0.49
2:U:145:GLU:O	2:U:156:SER:HA	2.13	0.49
2:V:147:ILE:HD12	2:V:147:ILE:O	2.12	0.49
1:J:307:ASN:CB	2:V:162:LEU:HD12	2.43	0.49
2:W:140:SER:HA	2:W:161:LEU:O	2.13	0.49
1:A:425:ASP:HA	1:A:428:PHE:HD2	1.74	0.48
1:B:493:THR:O	1:B:494:ASP:HB3	2.13	0.48
1:D:464:ASN:CA	1:D:502:PHE:HZ	2.25	0.48
1:E:424:LYS:CG	1:E:428:PHE:CZ	2.93	0.48
1:E:481:VAL:HG22	1:E:482:LEU:N	2.28	0.48
1:G:493:THR:O	1:G:494:ASP:HB3	2.13	0.48
1:H:464:ASN:CA	1:H:502:PHE:HZ	2.25	0.48
1:H:389:VAL:HG23	1:I:376:ASP:CG	2.28	0.48
1:I:348:ILE:HD13	1:I:391:TRP:HB3	1.95	0.48
1:I:464:ASN:CA	1:I:502:PHE:HZ	2.25	0.48
1:K:307:ASN:CB	2:W:162:LEU:HD12	2.43	0.48
1:L:390:PRO:HB2	1:L:392:ASP:OD1	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:111:ILE:CG2	2:N:112:GLU:N	2.76	0.48
2:P:111:ILE:CG2	2:P:112:GLU:N	2.76	0.48
2:R:97:TYR:CE1	2:R:141:ILE:HD11	2.48	0.48
2:V:140:SER:HA	2:V:161:LEU:O	2.13	0.48
2:V:145:GLU:O	2:V:156:SER:HA	2.13	0.48
1:K:351:ASP:OD2	2:W:100:ILE:N	2.45	0.48
2:X:140:SER:HA	2:X:161:LEU:O	2.13	0.48
1:A:307:ASN:CB	2:M:162:LEU:HD12	2.43	0.48
1:A:390:PRO:HB2	1:A:392:ASP:OD1	2.13	0.48
1:B:354:ASP:CA	1:B:383:THR:HG22	2.43	0.48
1:C:307:ASN:CB	2:O:162:LEU:HD12	2.43	0.48
1:C:453:VAL:HG21	1:C:488:ASN:HA	1.96	0.48
1:D:349:SER:OG	2:P:102:LYS:HG3	2.12	0.48
1:F:352:PHE:CG	1:F:360:ILE:CG2	2.96	0.48
1:G:481:VAL:HG22	1:G:482:LEU:N	2.28	0.48
1:J:257:HIS:HE2	1:K:232:LYS:C	2.14	0.48
1:K:352:PHE:CG	1:K:360:ILE:CG2	2.96	0.48
1:L:453:VAL:HG21	1:L:488:ASN:HA	1.96	0.48
1:L:464:ASN:HA	1:L:464:ASN:HD22	1.41	0.48
2:M:111:ILE:CG2	2:M:112:GLU:N	2.76	0.48
1:B:307:ASN:CB	2:N:162:LEU:HD12	2.43	0.48
2:Q:111:ILE:CG2	2:Q:112:GLU:N	2.76	0.48
2:Q:97:TYR:CE1	2:Q:141:ILE:HD11	2.48	0.48
2:Q:145:GLU:O	2:Q:156:SER:HA	2.13	0.48
2:T:140:SER:HA	2:T:161:LEU:O	2.13	0.48
2:U:133:ILE:HG13	2:U:134:GLU:N	2.29	0.48
2:U:140:SER:HA	2:U:161:LEU:O	2.13	0.48
1:A:354:ASP:CA	1:A:383:THR:HG22	2.43	0.48
1:A:447:GLN:C	1:A:448:LEU:HD22	2.34	0.48
1:B:370:MET:HG3	1:B:391:TRP:HH2	1.78	0.48
1:D:354:ASP:CA	1:D:383:THR:HG22	2.43	0.48
1:E:408:GLN:HB3	1:E:408:GLN:HE22	0.98	0.48
1:H:424:LYS:CG	1:H:428:PHE:CZ	2.93	0.48
1:I:256:GLN:NE2	1:J:231:ARG:CD	2.48	0.48
1:I:354:ASP:CA	1:I:383:THR:HG22	2.43	0.48
1:J:354:ASP:CA	1:J:383:THR:HG22	2.43	0.48
2:M:140:SER:HA	2:M:161:LEU:O	2.13	0.48
2:O:145:GLU:O	2:O:156:SER:HA	2.13	0.48
1:F:351:ASP:OD2	2:R:100:ILE:N	2.45	0.48
2:T:120:VAL:HB	2:T:133:ILE:HG21	1.95	0.48
2:U:120:VAL:HB	2:U:133:ILE:HG21	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:V:97:TYR:CE1	2:V:141:ILE:HD11	2.48	0.48
2:W:145:GLU:O	2:W:156:SER:HA	2.13	0.48
1:A:382:MET:HE1	1:A:384:LEU:CD1	2.44	0.48
1:B:390:PRO:HB2	1:B:392:ASP:OD1	2.13	0.48
1:C:370:MET:HG3	1:C:391:TRP:HH2	1.78	0.48
1:C:511:VAL:CB	1:C:512:PRO:HD3	2.43	0.48
1:D:450:TYR:CE2	1:D:514:GLN:CG	2.96	0.48
1:F:453:VAL:HG21	1:F:488:ASN:HA	1.96	0.48
1:H:487:THR:HG21	1:I:459:ILE:HG21	1.93	0.48
1:J:428:PHE:HB3	1:J:437:ASP:HA	1.95	0.48
1:J:464:ASN:CA	1:J:502:PHE:HZ	2.25	0.48
1:K:354:ASP:CA	1:K:383:THR:HG22	2.43	0.48
1:K:428:PHE:HB3	1:K:437:ASP:HA	1.95	0.48
1:K:447:GLN:C	1:K:448:LEU:HD22	2.34	0.48
1:L:408:GLN:CB	1:L:413:VAL:HG12	2.43	0.48
1:L:428:PHE:HB3	1:L:437:ASP:HA	1.95	0.48
1:L:447:GLN:C	1:L:448:LEU:HD22	2.34	0.48
1:L:481:VAL:HG22	1:L:482:LEU:N	2.28	0.48
2:O:97:TYR:CE1	2:O:141:ILE:HD11	2.48	0.48
2:T:133:ILE:HG13	2:T:134:GLU:N	2.28	0.48
2:T:145:GLU:O	2:T:156:SER:HA	2.13	0.48
2:W:111:ILE:CG2	2:W:112:GLU:N	2.76	0.48
2:X:97:TYR:CE1	2:X:141:ILE:HD11	2.48	0.48
1:B:400:GLN:HG3	1:C:478:ARG:HD3	1.94	0.48
1:B:408:GLN:HB3	1:B:408:GLN:HE22	0.98	0.48
1:B:490:LEU:CD2	1:B:506:ILE:HD11	2.44	0.48
1:C:464:ASN:CA	1:C:502:PHE:HZ	2.25	0.48
1:E:354:ASP:CA	1:E:383:THR:HG22	2.43	0.48
1:F:307:ASN:CB	2:R:162:LEU:HD12	2.43	0.48
1:G:357:ILE:CA	1:G:360:ILE:HG12	2.43	0.48
1:H:307:ASN:CB	2:T:162:LEU:HD12	2.43	0.48
1:H:354:ASP:CA	1:H:383:THR:HG22	2.43	0.48
1:H:390:PRO:HB2	1:H:392:ASP:OD1	2.13	0.48
1:J:343:PHE:CB	1:K:469:GLY:C	2.42	0.48
1:J:400:GLN:HG3	1:K:478:ARG:HD3	1.95	0.48
2:N:140:SER:HA	2:N:161:LEU:O	2.13	0.48
1:D:351:ASP:OD2	2:P:100:ILE:N	2.45	0.48
2:T:97:TYR:CE1	2:T:141:ILE:HD11	2.48	0.48
2:V:120:VAL:HB	2:V:133:ILE:HG21	1.95	0.48
2:V:133:ILE:HG13	2:V:134:GLU:N	2.29	0.48
2:W:97:TYR:CE1	2:W:141:ILE:HD11	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:447:GLN:C	1:B:448:LEU:HD22	2.34	0.48
1:C:361:LEU:HG	1:C:372:ILE:CG2	2.44	0.48
1:C:483:ILE:HG13	1:C:491:ILE:HB	1.93	0.48
1:D:453:VAL:HG21	1:D:488:ASN:HA	1.95	0.48
1:E:307:ASN:CB	2:Q:162:LEU:HD12	2.43	0.48
1:E:361:LEU:HG	1:E:372:ILE:CG2	2.44	0.48
1:F:404:LEU:CD2	1:F:404:LEU:H	2.25	0.48
1:F:424:LYS:CG	1:F:428:PHE:CZ	2.93	0.48
1:G:416:ALA:CB	1:G:417:PRO:HD2	2.38	0.48
1:G:483:ILE:HG13	1:G:491:ILE:HB	1.93	0.48
1:G:490:LEU:CD2	1:G:506:ILE:HD11	2.44	0.48
1:H:481:VAL:HG22	1:H:482:LEU:N	2.28	0.48
1:I:406:MET:CE	1:I:415:ILE:HD11	2.42	0.48
1:J:390:PRO:HB2	1:J:392:ASP:OD1	2.13	0.48
1:L:352:PHE:CG	1:L:360:ILE:CG2	2.96	0.48
1:K:400:GLN:HG3	1:L:478:ARG:HD3	1.94	0.48
1:L:490:LEU:CD2	1:L:506:ILE:HD11	2.44	0.48
2:P:97:TYR:CE1	2:P:141:ILE:HD11	2.48	0.48
2:S:111:ILE:CG2	2:S:112:GLU:N	2.76	0.48
2:S:140:SER:HA	2:S:161:LEU:O	2.13	0.48
2:T:102:LYS:HB2	2:T:107:VAL:HA	1.96	0.48
1:L:351:ASP:OD2	2:X:100:ILE:N	2.45	0.48
1:B:453:VAL:HG21	1:B:488:ASN:HA	1.95	0.48
1:D:447:GLN:C	1:D:448:LEU:HD22	2.34	0.48
1:E:352:PHE:CG	1:E:360:ILE:CG2	2.96	0.48
1:E:390:PRO:HB2	1:E:392:ASP:OD1	2.13	0.48
1:G:256:GLN:NE2	1:H:231:ARG:CD	2.48	0.48
1:G:424:LYS:CG	1:G:428:PHE:CZ	2.93	0.48
1:I:493:THR:O	1:I:494:ASP:HB3	2.12	0.48
1:J:361:LEU:HG	1:J:372:ILE:CG2	2.44	0.48
1:J:447:GLN:C	1:J:448:LEU:HD22	2.34	0.48
1:L:307:ASN:CB	2:X:162:LEU:HD12	2.43	0.48
2:P:145:GLU:C	2:P:146:LEU:HD12	2.34	0.48
2:R:140:SER:HA	2:R:161:LEU:O	2.13	0.48
2:S:120:VAL:HB	2:S:133:ILE:HG21	1.95	0.48
1:B:386:LEU:HD21	1:B:397:LEU:HD23	1.96	0.48
1:A:400:GLN:HG3	1:B:478:ARG:HD3	1.95	0.48
1:C:447:GLN:C	1:C:448:LEU:HD22	2.34	0.48
1:D:389:VAL:HG23	1:E:376:ASP:CG	2.28	0.48
1:F:370:MET:HG3	1:F:391:TRP:HH2	1.78	0.48
1:H:361:LEU:HG	1:H:372:ILE:CG2	2.44	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:428:PHE:HB3	1:I:437:ASP:HA	1.95	0.48
1:I:447:GLN:C	1:I:448:LEU:HD22	2.34	0.48
1:K:453:VAL:HG21	1:K:488:ASN:HA	1.95	0.48
1:K:498:VAL:HG13	1:K:502:PHE:HE1	1.79	0.48
1:L:354:ASP:CA	1:L:383:THR:HG22	2.43	0.48
1:L:511:VAL:CB	1:L:512:PRO:HD3	2.43	0.48
2:M:133:ILE:HG13	2:M:134:GLU:N	2.29	0.48
2:O:140:SER:HA	2:O:161:LEU:O	2.13	0.48
2:Q:140:SER:HA	2:Q:161:LEU:O	2.13	0.48
2:V:102:LYS:HB2	2:V:107:VAL:HA	1.96	0.48
2:X:111:ILE:CG2	2:X:112:GLU:N	2.76	0.48
2:X:145:GLU:O	2:X:156:SER:HA	2.13	0.48
1:A:272:THR:HG21	1:L:293:ARG:HH11	1.64	0.48
1:A:361:LEU:HG	1:A:372:ILE:CG2	2.44	0.48
1:A:370:MET:HG3	1:A:391:TRP:HH2	1.78	0.48
1:A:402:ARG:O	1:A:422:LEU:HD11	2.14	0.48
1:A:428:PHE:HB3	1:A:437:ASP:HA	1.95	0.48
1:C:265:LYS:CE	1:D:245:LEU:HB3	2.26	0.48
1:E:370:MET:HG3	1:E:391:TRP:HH2	1.78	0.48
1:E:428:PHE:HB3	1:E:437:ASP:HA	1.95	0.48
1:F:265:LYS:CE	1:G:245:LEU:HB3	2.26	0.48
1:G:370:MET:HG3	1:G:391:TRP:HH2	1.78	0.48
1:G:386:LEU:HD21	1:G:397:LEU:HD23	1.96	0.48
1:G:404:LEU:H	1:G:404:LEU:CD2	2.26	0.48
1:G:402:ARG:O	1:G:422:LEU:HD11	2.14	0.48
1:H:386:LEU:HD21	1:H:397:LEU:HD23	1.96	0.48
1:I:402:ARG:O	1:I:422:LEU:HD11	2.14	0.48
1:I:498:VAL:HG13	1:I:502:PHE:HE1	1.79	0.48
1:J:402:ARG:O	1:J:422:LEU:HD11	2.14	0.48
1:I:400:GLN:HG3	1:J:478:ARG:HD3	1.95	0.48
1:J:498:VAL:HG13	1:J:502:PHE:HE1	1.79	0.48
1:K:481:VAL:HG22	1:K:482:LEU:N	2.28	0.48
2:N:133:ILE:HG13	2:N:134:GLU:N	2.28	0.48
2:N:145:GLU:C	2:N:146:LEU:HD12	2.34	0.48
2:P:140:SER:HA	2:P:161:LEU:O	2.13	0.48
2:R:102:LYS:HB2	2:R:107:VAL:HA	1.96	0.48
2:R:120:VAL:HB	2:R:133:ILE:HG21	1.95	0.48
2:U:111:ILE:CG2	2:U:112:GLU:N	2.76	0.48
2:W:102:LYS:HB2	2:W:107:VAL:HA	1.96	0.48
2:X:128:GLN:HG3	2:X:129:ASN:N	2.29	0.48
1:A:269:LEU:HD23	1:A:269:LEU:O	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:386:LEU:HD21	1:A:397:LEU:HD23	1.96	0.48
1:A:456:PHE:CD1	1:A:509:LEU:HD12	2.49	0.48
1:A:472:ASN:HB3	1:A:474:LEU:O	2.14	0.48
1:B:269:LEU:HD23	1:B:269:LEU:O	2.14	0.48
1:B:352:PHE:CG	1:B:360:ILE:CG2	2.96	0.48
1:B:357:ILE:CA	1:B:360:ILE:HG12	2.43	0.48
1:B:472:ASN:HB3	1:B:474:LEU:O	2.14	0.48
1:B:293:ARG:HH11	1:C:272:THR:HG21	1.64	0.48
1:C:390:PRO:HB2	1:C:392:ASP:OD1	2.13	0.48
1:C:386:LEU:HD21	1:C:397:LEU:HD23	1.96	0.48
1:D:370:MET:HG3	1:D:391:TRP:HH2	1.78	0.48
1:D:428:PHE:HB3	1:D:437:ASP:HA	1.95	0.48
1:D:483:ILE:HG13	1:D:491:ILE:HB	1.93	0.48
1:F:386:LEU:HD21	1:F:397:LEU:HD23	1.96	0.48
1:F:408:GLN:HB3	1:F:408:GLN:HE22	0.98	0.48
1:F:428:PHE:HB3	1:F:437:ASP:HA	1.95	0.48
1:F:481:VAL:HG22	1:F:482:LEU:N	2.28	0.48
1:G:361:LEU:HG	1:G:372:ILE:CG2	2.44	0.48
1:F:400:GLN:HG3	1:G:478:ARG:HD3	1.95	0.48
1:H:265:LYS:CE	1:I:245:LEU:HB3	2.25	0.48
1:H:370:MET:HG3	1:H:391:TRP:HH2	1.78	0.48
1:H:404:LEU:CD2	1:H:404:LEU:H	2.26	0.48
1:H:498:VAL:HG13	1:H:502:PHE:HE1	1.79	0.48
1:I:269:LEU:O	1:I:269:LEU:HD23	2.14	0.48
1:I:307:ASN:CB	2:U:162:LEU:HD12	2.43	0.48
1:I:453:VAL:HG21	1:I:488:ASN:HA	1.96	0.48
1:J:269:LEU:HD23	1:J:269:LEU:O	2.14	0.48
1:J:472:ASN:HB3	1:J:474:LEU:O	2.14	0.48
1:K:257:HIS:HE2	1:L:232:LYS:C	2.14	0.48
1:K:269:LEU:O	1:K:269:LEU:HD23	2.14	0.48
1:K:382:MET:HE1	1:K:384:LEU:CD1	2.43	0.48
1:L:402:ARG:O	1:L:422:LEU:HD11	2.14	0.48
2:M:102:LYS:HB2	2:M:107:VAL:HA	1.96	0.48
2:M:128:GLN:HG3	2:M:129:ASN:N	2.29	0.48
2:M:145:GLU:C	2:M:146:LEU:HD12	2.34	0.48
2:Q:145:GLU:C	2:Q:146:LEU:HD12	2.34	0.48
2:S:145:GLU:O	2:S:156:SER:HA	2.13	0.48
2:W:120:VAL:HB	2:W:133:ILE:HG21	1.95	0.48
1:A:352:PHE:CG	1:A:360:ILE:CG2	2.96	0.47
1:A:416:ALA:HB3	1:A:418:ARG:HG3	1.96	0.47
1:A:453:VAL:HG21	1:A:488:ASN:HA	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:402:ARG:O	1:C:422:LEU:HD11	2.14	0.47
1:C:456:PHE:CD1	1:C:509:LEU:HD12	2.49	0.47
1:C:400:GLN:HG3	1:D:478:ARG:HD3	1.95	0.47
1:F:269:LEU:O	1:F:269:LEU:HD23	2.14	0.47
1:F:483:ILE:HG13	1:F:491:ILE:HB	1.93	0.47
1:G:416:ALA:HB3	1:G:418:ARG:HG3	1.96	0.47
1:G:487:THR:HG21	1:H:459:ILE:HG21	1.94	0.47
1:I:370:MET:HG3	1:I:391:TRP:HH2	1.78	0.47
1:I:386:LEU:HD21	1:I:397:LEU:HD23	1.96	0.47
1:I:472:ASN:HB3	1:I:474:LEU:O	2.14	0.47
1:I:511:VAL:CB	1:I:512:PRO:HD3	2.43	0.47
1:K:430:GLN:HE21	1:K:430:GLN:HB3	1.42	0.47
1:L:269:LEU:HD23	1:L:269:LEU:O	2.14	0.47
1:L:498:VAL:HG13	1:L:502:PHE:HE1	1.79	0.47
2:O:111:ILE:CG2	2:O:112:GLU:N	2.76	0.47
2:O:145:GLU:C	2:O:146:LEU:HD12	2.34	0.47
2:S:145:GLU:C	2:S:146:LEU:HD12	2.34	0.47
2:W:128:GLN:HG3	2:W:129:ASN:N	2.29	0.47
2:X:133:ILE:HG13	2:X:134:GLU:N	2.29	0.47
1:A:293:ARG:HH11	1:B:272:THR:HG21	1.64	0.47
1:B:416:ALA:HB3	1:B:418:ARG:HG3	1.96	0.47
1:B:294:LEU:CG	1:C:227:ASN:HB2	2.44	0.47
1:D:352:PHE:CG	1:D:360:ILE:CG2	2.96	0.47
1:E:453:VAL:HG21	1:E:488:ASN:HA	1.95	0.47
1:E:483:ILE:HG13	1:E:491:ILE:HB	1.93	0.47
1:E:490:LEU:CD2	1:E:506:ILE:HD11	2.44	0.47
1:G:453:VAL:HG21	1:G:488:ASN:HA	1.95	0.47
1:H:269:LEU:O	1:H:269:LEU:HD23	2.14	0.47
1:H:373:VAL:HG23	1:H:412:ILE:HD11	1.95	0.47
1:H:416:ALA:HB3	1:H:418:ARG:HG3	1.96	0.47
1:I:265:LYS:NZ	1:J:245:LEU:CA	2.35	0.47
1:L:361:LEU:HG	1:L:372:ILE:CG2	2.44	0.47
1:L:386:LEU:HD21	1:L:397:LEU:HD23	1.96	0.47
1:L:416:ALA:HB3	1:L:418:ARG:HG3	1.96	0.47
2:U:97:TYR:CE1	2:U:141:ILE:HD11	2.48	0.47
1:A:408:GLN:HB3	1:A:408:GLN:HE22	0.98	0.47
1:A:498:VAL:HG13	1:A:502:PHE:HE1	1.79	0.47
1:B:428:PHE:CE1	1:B:439:GLY:N	2.83	0.47
1:B:425:ASP:HA	1:B:428:PHE:HD2	1.74	0.47
1:C:352:PHE:CG	1:C:360:ILE:CG2	2.96	0.47
1:C:450:TYR:CE2	1:C:514:GLN:CG	2.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:390:PRO:HB2	1:D:392:ASP:OD1	2.13	0.47
1:D:416:ALA:HB3	1:D:418:ARG:HG3	1.96	0.47
1:D:428:PHE:CE1	1:D:439:GLY:N	2.83	0.47
1:E:386:LEU:HD21	1:E:397:LEU:HD23	1.96	0.47
1:E:402:ARG:O	1:E:422:LEU:HD11	2.14	0.47
1:E:450:TYR:CE2	1:E:514:GLN:CG	2.96	0.47
1:E:456:PHE:CD1	1:E:509:LEU:HD12	2.49	0.47
1:F:416:ALA:HB3	1:F:418:ARG:HG3	1.96	0.47
1:G:269:LEU:O	1:G:269:LEU:HD23	2.14	0.47
1:G:361:LEU:HD23	1:G:372:ILE:HB	1.96	0.47
1:H:402:ARG:O	1:H:422:LEU:HD11	2.14	0.47
1:H:456:PHE:CD1	1:H:509:LEU:HD12	2.49	0.47
1:I:416:ALA:HB3	1:I:418:ARG:HG3	1.96	0.47
1:J:490:LEU:CD2	1:J:506:ILE:HD11	2.44	0.47
1:K:307:ASN:CB	2:W:162:LEU:CD1	2.93	0.47
1:K:361:LEU:HG	1:K:372:ILE:CG2	2.44	0.47
1:K:416:ALA:HB3	1:K:418:ARG:HG3	1.96	0.47
1:K:402:ARG:O	1:K:422:LEU:HD11	2.14	0.47
1:L:382:MET:HE1	1:L:384:LEU:CD1	2.44	0.47
2:M:120:VAL:HB	2:M:133:ILE:HG21	1.95	0.47
2:M:145:GLU:O	2:M:156:SER:HA	2.13	0.47
2:Q:120:VAL:HB	2:Q:133:ILE:HG21	1.95	0.47
1:B:498:VAL:HG13	1:B:502:PHE:HE1	1.79	0.47
1:C:349:SER:OG	2:O:102:LYS:HG3	2.12	0.47
1:C:408:GLN:HG2	1:C:413:VAL:HG11	1.95	0.47
1:C:428:PHE:CE1	1:C:439:GLY:N	2.83	0.47
1:C:472:ASN:HB3	1:C:474:LEU:O	2.14	0.47
1:D:386:LEU:HD21	1:D:397:LEU:HD23	1.96	0.47
1:E:428:PHE:CE1	1:E:439:GLY:N	2.83	0.47
1:E:487:THR:HG21	1:F:459:ILE:HG21	1.93	0.47
1:F:352:PHE:CD1	1:F:360:ILE:CG2	2.95	0.47
1:F:408:GLN:HG2	1:F:413:VAL:HG11	1.95	0.47
1:G:447:GLN:C	1:G:448:LEU:HD22	2.34	0.47
1:G:498:VAL:HG13	1:G:502:PHE:HE1	1.79	0.47
1:I:361:LEU:HG	1:I:372:ILE:CG2	2.44	0.47
1:I:451:LYS:HD3	1:I:455:GLU:OE1	2.15	0.47
1:J:416:ALA:HB3	1:J:418:ARG:HG3	1.96	0.47
1:J:456:PHE:CD1	1:J:509:LEU:HD12	2.49	0.47
1:J:294:LEU:CD1	1:K:273:LEU:HD22	2.43	0.47
1:K:386:LEU:HD21	1:K:397:LEU:HD23	1.96	0.47
1:L:472:ASN:HB3	1:L:474:LEU:O	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:128:GLN:HG3	2:N:129:ASN:N	2.29	0.47
2:O:133:ILE:HG13	2:O:134:GLU:N	2.29	0.47
2:Q:133:ILE:HG13	2:Q:134:GLU:N	2.28	0.47
2:S:133:ILE:HG13	2:S:134:GLU:N	2.29	0.47
1:I:307:ASN:CB	2:U:162:LEU:CD1	2.93	0.47
1:J:307:ASN:CB	2:V:162:LEU:CD1	2.93	0.47
2:W:133:ILE:HG13	2:W:134:GLU:N	2.28	0.47
1:B:408:GLN:HG2	1:B:413:VAL:HG11	1.95	0.47
1:C:269:LEU:O	1:C:269:LEU:HD23	2.14	0.47
1:C:416:ALA:HB3	1:C:418:ARG:HG3	1.96	0.47
1:C:428:PHE:HB3	1:C:437:ASP:HA	1.95	0.47
1:D:294:LEU:CG	1:E:227:ASN:HB2	2.45	0.47
1:E:416:ALA:HB3	1:E:418:ARG:HG3	1.96	0.47
1:F:361:LEU:HG	1:F:372:ILE:CG2	2.44	0.47
1:F:447:GLN:C	1:F:448:LEU:HD22	2.34	0.47
1:F:487:THR:HG21	1:G:459:ILE:HG21	1.94	0.47
1:H:307:ASN:CB	2:T:162:LEU:CD1	2.93	0.47
1:H:428:PHE:HB3	1:H:437:ASP:HA	1.95	0.47
1:H:428:PHE:CE1	1:H:439:GLY:N	2.83	0.47
1:I:357:ILE:CA	1:I:360:ILE:HG12	2.43	0.47
1:I:361:LEU:HD23	1:I:372:ILE:HB	1.96	0.47
1:J:256:GLN:NE2	1:K:231:ARG:CD	2.48	0.47
1:J:428:PHE:CE1	1:J:439:GLY:N	2.83	0.47
1:K:428:PHE:CE1	1:K:439:GLY:N	2.83	0.47
2:N:145:GLU:O	2:N:156:SER:HA	2.13	0.47
2:P:133:ILE:HG13	2:P:134:GLU:N	2.29	0.47
2:T:145:GLU:C	2:T:146:LEU:HD12	2.34	0.47
2:V:128:GLN:HG3	2:V:129:ASN:N	2.29	0.47
2:X:102:LYS:HB2	2:X:107:VAL:HA	1.96	0.47
1:L:307:ASN:CB	2:X:162:LEU:CD1	2.93	0.47
1:A:451:LYS:HD3	1:A:455:GLU:OE1	2.15	0.47
1:A:478:ARG:HD3	1:L:400:GLN:HG3	1.95	0.47
1:B:361:LEU:HD23	1:B:372:ILE:HB	1.96	0.47
1:D:352:PHE:CD1	1:D:360:ILE:CG2	2.95	0.47
1:D:373:VAL:HG23	1:D:412:ILE:HD11	1.95	0.47
1:E:352:PHE:CD1	1:E:360:ILE:CG2	2.95	0.47
1:E:294:LEU:CG	1:F:227:ASN:HB2	2.44	0.47
1:F:498:VAL:HG13	1:F:502:PHE:HE1	1.79	0.47
1:F:511:VAL:CB	1:F:512:PRO:HD3	2.43	0.47
1:G:430:GLN:HB3	1:G:430:GLN:HE21	1.42	0.47
1:H:357:ILE:HG12	1:H:403:ASN:ND2	2.30	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:390:PRO:HB2	1:I:392:ASP:OD1	2.13	0.47
1:J:386:LEU:HD21	1:J:397:LEU:HD23	1.96	0.47
1:L:451:LYS:HD3	1:L:455:GLU:OE1	2.15	0.47
2:P:120:VAL:HB	2:P:133:ILE:HG21	1.95	0.47
2:R:145:GLU:O	2:R:156:SER:HA	2.13	0.47
2:U:102:LYS:HB2	2:U:107:VAL:HA	1.96	0.47
1:A:265:LYS:CE	1:B:245:LEU:HB3	2.26	0.47
1:A:406:MET:HE2	1:A:415:ILE:HD11	1.96	0.47
1:A:408:GLN:HG2	1:A:413:VAL:HG11	1.95	0.47
1:C:361:LEU:HD23	1:C:372:ILE:HB	1.96	0.47
1:C:293:ARG:HH11	1:D:272:THR:HG21	1.64	0.47
1:D:457:ARG:NE	1:D:457:ARG:HA	2.30	0.47
1:D:498:VAL:HG13	1:D:502:PHE:HE1	1.79	0.47
1:E:269:LEU:O	1:E:269:LEU:HD23	2.14	0.47
1:E:357:ILE:HG12	1:E:403:ASN:HD21	1.80	0.47
1:E:498:VAL:HG13	1:E:502:PHE:HE1	1.79	0.47
1:F:428:PHE:CE1	1:F:439:GLY:N	2.83	0.47
1:F:456:PHE:CD1	1:F:509:LEU:HD12	2.49	0.47
1:G:357:ILE:HG12	1:G:403:ASN:ND2	2.30	0.47
1:G:428:PHE:HB3	1:G:437:ASP:HA	1.95	0.47
1:H:453:VAL:HG21	1:H:488:ASN:HA	1.95	0.47
1:I:357:ILE:HG12	1:I:403:ASN:ND2	2.30	0.47
1:J:370:MET:HG3	1:J:391:TRP:HH2	1.78	0.47
1:J:357:ILE:HG12	1:J:403:ASN:HD21	1.80	0.47
1:J:453:VAL:HG21	1:J:488:ASN:HA	1.95	0.47
1:J:457:ARG:HA	1:J:457:ARG:NE	2.30	0.47
1:A:307:ASN:CB	2:M:162:LEU:CD1	2.93	0.47
2:O:120:VAL:HB	2:O:133:ILE:HG21	1.95	0.47
2:P:102:LYS:HB2	2:P:107:VAL:HA	1.96	0.47
2:R:128:GLN:HG3	2:R:129:ASN:N	2.29	0.47
2:R:133:ILE:HG13	2:R:134:GLU:N	2.29	0.47
2:S:102:LYS:HB2	2:S:107:VAL:HA	1.96	0.47
2:V:111:ILE:CG2	2:V:112:GLU:N	2.76	0.47
1:A:227:ASN:HB2	1:L:294:LEU:CG	2.45	0.47
1:B:428:PHE:HB3	1:B:437:ASP:HA	1.95	0.47
1:C:490:LEU:CD2	1:C:506:ILE:HD11	2.44	0.47
1:C:498:VAL:HG13	1:C:502:PHE:HE1	1.79	0.47
1:D:408:GLN:HE22	1:D:408:GLN:HB3	0.98	0.47
1:D:451:LYS:HD3	1:D:455:GLU:OE1	2.15	0.47
1:D:487:THR:HG21	1:E:459:ILE:HG21	1.94	0.47
1:F:357:ILE:HG12	1:F:403:ASN:ND2	2.30	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:428:PHE:CE1	1:G:439:GLY:N	2.83	0.47
1:I:382:MET:HE1	1:I:384:LEU:CD1	2.44	0.47
1:I:357:ILE:HG12	1:I:403:ASN:HD21	1.80	0.47
1:I:294:LEU:CD1	1:J:273:LEU:HD22	2.43	0.47
1:I:389:VAL:HG23	1:J:376:ASP:CG	2.28	0.47
1:J:451:LYS:HD3	1:J:455:GLU:OE1	2.15	0.47
1:J:464:ASN:HA	1:J:464:ASN:HD22	1.41	0.47
1:K:457:ARG:HA	1:K:457:ARG:NE	2.30	0.47
1:K:472:ASN:HB3	1:K:474:LEU:O	2.14	0.47
1:K:456:PHE:CD1	1:K:509:LEU:HD12	2.49	0.47
1:L:370:MET:HG3	1:L:391:TRP:HH2	1.78	0.47
1:L:450:TYR:CE2	1:L:514:GLN:CG	2.96	0.47
2:R:145:GLU:C	2:R:146:LEU:HD12	2.34	0.47
2:V:145:GLU:C	2:V:146:LEU:HD12	2.34	0.47
1:A:428:PHE:CE1	1:A:439:GLY:N	2.83	0.47
1:B:307:ASN:CB	2:N:162:LEU:CD1	2.93	0.47
1:B:361:LEU:HG	1:B:372:ILE:CG2	2.44	0.47
1:B:402:ARG:O	1:B:422:LEU:HD11	2.14	0.47
1:B:457:ARG:NE	1:B:457:ARG:HA	2.30	0.47
1:C:389:VAL:HG23	1:D:376:ASP:CG	2.28	0.47
1:D:456:PHE:CD1	1:D:509:LEU:HD12	2.49	0.47
1:F:457:ARG:HA	1:F:457:ARG:NE	2.30	0.47
1:F:472:ASN:HB3	1:F:474:LEU:O	2.14	0.47
1:G:408:GLN:HB3	1:G:408:GLN:HE22	0.98	0.47
1:G:408:GLN:HG2	1:G:413:VAL:HG11	1.95	0.47
1:G:456:PHE:CD1	1:G:509:LEU:HD12	2.49	0.47
1:H:447:GLN:C	1:H:448:LEU:HD22	2.34	0.47
1:I:428:PHE:CE1	1:I:439:GLY:N	2.83	0.47
1:I:457:ARG:HA	1:I:457:ARG:NE	2.30	0.47
1:I:464:ASN:HA	1:I:464:ASN:HD22	1.41	0.47
1:K:389:VAL:HG23	1:L:376:ASP:CG	2.28	0.47
1:L:408:GLN:HG2	1:L:413:VAL:HG11	1.95	0.47
2:P:145:GLU:O	2:P:156:SER:HA	2.13	0.47
2:U:133:ILE:HD12	2:U:143:LEU:CA	2.45	0.47
1:C:354:ASP:CA	1:C:383:THR:HG22	2.43	0.47
1:C:445:ASN:ND2	1:C:445:ASN:H	2.13	0.47
1:D:361:LEU:HG	1:D:372:ILE:CG2	2.44	0.47
1:D:472:ASN:HB3	1:D:474:LEU:O	2.14	0.47
1:E:357:ILE:HG12	1:E:403:ASN:ND2	2.30	0.47
1:F:357:ILE:HG12	1:F:403:ASN:HD21	1.80	0.47
1:G:457:ARG:HA	1:G:457:ARG:NE	2.30	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:457:ARG:HA	1:H:457:ARG:NE	2.30	0.47
1:H:490:LEU:CD2	1:H:506:ILE:HD11	2.44	0.47
1:K:370:MET:HG3	1:K:391:TRP:HH2	1.78	0.47
1:A:232:LYS:C	1:L:257:HIS:HE2	2.14	0.47
1:L:408:GLN:HB3	1:L:408:GLN:HE22	0.98	0.47
1:L:457:ARG:HA	1:L:457:ARG:NE	2.30	0.47
1:G:307:ASN:CB	2:S:162:LEU:CD1	2.93	0.47
2:T:111:ILE:CG2	2:T:112:GLU:N	2.76	0.47
2:U:128:GLN:HG3	2:U:129:ASN:N	2.29	0.47
2:W:145:GLU:C	2:W:146:LEU:HD12	2.34	0.47
2:X:120:VAL:HB	2:X:133:ILE:HG21	1.95	0.47
2:X:145:GLU:C	2:X:146:LEU:HD12	2.34	0.47
1:A:457:ARG:NE	1:A:457:ARG:HA	2.30	0.47
1:C:343:PHE:CB	1:D:469:GLY:C	2.42	0.47
1:D:361:LEU:HD23	1:D:372:ILE:HB	1.96	0.47
1:E:451:LYS:HD3	1:E:455:GLU:OE1	2.15	0.47
1:D:343:PHE:CB	1:E:469:GLY:C	2.42	0.47
1:H:451:LYS:HD3	1:H:455:GLU:OE1	2.15	0.47
1:H:294:LEU:CD1	1:I:273:LEU:HD22	2.43	0.47
1:J:294:LEU:HA	1:K:273:LEU:HD23	1.97	0.47
2:N:102:LYS:HB2	2:N:107:VAL:HA	1.96	0.47
2:N:120:VAL:HB	2:N:133:ILE:HG21	1.95	0.47
2:O:102:LYS:HB2	2:O:107:VAL:HA	1.96	0.47
1:D:349:SER:CB	2:P:102:LYS:H	2.28	0.47
2:Q:102:LYS:HB2	2:Q:107:VAL:HA	1.96	0.47
2:S:133:ILE:HD12	2:S:143:LEU:CA	2.45	0.47
1:A:294:LEU:CG	1:B:227:ASN:HB2	2.45	0.46
1:B:343:PHE:CG	1:C:469:GLY:HA3	2.50	0.46
1:B:516:VAL:CG2	1:B:517:MET:N	2.74	0.46
1:C:294:LEU:CG	1:D:227:ASN:HB2	2.45	0.46
1:D:396:ASP:O	1:D:400:GLN:HG2	2.15	0.46
1:E:294:LEU:HA	1:F:273:LEU:HD23	1.97	0.46
1:E:447:GLN:C	1:E:448:LEU:HD22	2.34	0.46
1:E:472:ASN:HB3	1:E:474:LEU:O	2.14	0.46
1:F:354:ASP:CA	1:F:383:THR:HG22	2.43	0.46
1:F:396:ASP:O	1:F:400:GLN:HG2	2.15	0.46
1:F:450:TYR:HB3	1:F:513:ALA:CB	2.46	0.46
1:F:451:LYS:HD3	1:F:455:GLU:OE1	2.15	0.46
1:G:294:LEU:CG	1:H:227:ASN:HB2	2.45	0.46
1:I:450:TYR:HB3	1:I:513:ALA:CB	2.46	0.46
1:J:357:ILE:HG12	1:J:403:ASN:ND2	2.30	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:408:GLN:HG2	1:K:413:VAL:HG11	1.95	0.46
1:K:294:LEU:CG	1:L:227:ASN:HB2	2.44	0.46
1:L:428:PHE:CE1	1:L:439:GLY:N	2.83	0.46
1:L:456:PHE:CD1	1:L:509:LEU:HD12	2.49	0.46
1:C:307:ASN:CB	2:O:162:LEU:CD1	2.93	0.46
2:Q:128:GLN:HG3	2:Q:129:ASN:N	2.29	0.46
2:R:133:ILE:HD12	2:R:143:LEU:CA	2.45	0.46
2:R:84:LYS:N	2:R:84:LYS:HD2	2.31	0.46
2:S:84:LYS:HD2	2:S:84:LYS:N	2.31	0.46
2:U:145:GLU:C	2:U:146:LEU:HD12	2.34	0.46
2:W:84:LYS:HD2	2:W:84:LYS:N	2.31	0.46
2:X:84:LYS:N	2:X:84:LYS:HD2	2.31	0.46
1:B:445:ASN:H	1:B:445:ASN:ND2	2.13	0.46
1:C:451:LYS:HD3	1:C:455:GLU:OE1	2.15	0.46
1:D:357:ILE:CA	1:D:360:ILE:HG12	2.43	0.46
1:D:402:ARG:O	1:D:422:LEU:HD11	2.14	0.46
1:D:445:ASN:ND2	1:D:445:ASN:H	2.13	0.46
1:F:402:ARG:O	1:F:422:LEU:HD11	2.14	0.46
1:H:511:VAL:CB	1:H:512:PRO:HD3	2.43	0.46
1:K:357:ILE:HG12	1:K:403:ASN:HD21	1.80	0.46
2:Q:100:ILE:HG22	2:Q:101:LEU:H	1.80	0.46
2:T:133:ILE:HD12	2:T:143:LEU:CA	2.45	0.46
1:A:454:GLU:HA	1:A:457:ARG:HG2	1.98	0.46
1:A:485:PRO:HG2	1:A:489:THR:O	2.16	0.46
1:A:490:LEU:CD2	1:A:506:ILE:HD11	2.44	0.46
1:B:349:SER:OG	2:N:102:LYS:HG3	2.12	0.46
1:B:456:PHE:CD1	1:B:509:LEU:HD12	2.49	0.46
1:D:269:LEU:HD23	1:D:269:LEU:O	2.14	0.46
1:D:485:PRO:HG2	1:D:489:THR:O	2.16	0.46
1:D:511:VAL:HB	1:D:512:PRO:CD	2.46	0.46
1:E:307:ASN:CB	2:Q:162:LEU:CD1	2.93	0.46
1:E:454:GLU:HA	1:E:457:ARG:HG2	1.98	0.46
1:F:256:GLN:NE2	1:G:231:ARG:CD	2.48	0.46
1:F:371:ASN:O	1:F:413:VAL:HG22	2.16	0.46
1:G:371:ASN:O	1:G:413:VAL:HG22	2.15	0.46
1:I:294:LEU:HD11	1:J:227:ASN:HB2	1.98	0.46
1:K:445:ASN:ND2	1:K:445:ASN:H	2.13	0.46
1:K:464:ASN:HA	1:K:464:ASN:HD22	1.41	0.46
1:L:361:LEU:HD23	1:L:372:ILE:HB	1.96	0.46
1:L:357:ILE:HG12	1:L:403:ASN:HD21	1.80	0.46
2:N:100:ILE:HG22	2:N:101:LEU:H	1.80	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:P:128:GLN:HG3	2:P:129:ASN:N	2.29	0.46
1:D:307:ASN:CB	2:P:162:LEU:CD1	2.93	0.46
2:Q:133:ILE:HA	2:Q:143:LEU:HA	1.97	0.46
2:R:133:ILE:HA	2:R:143:LEU:HA	1.97	0.46
1:F:307:ASN:CB	2:R:162:LEU:CD1	2.93	0.46
2:T:100:ILE:HG22	2:T:101:LEU:H	1.80	0.46
1:A:357:ILE:HG12	1:A:403:ASN:HD21	1.80	0.46
1:B:357:ILE:HG12	1:B:403:ASN:HD21	1.80	0.46
1:C:357:ILE:CA	1:C:360:ILE:HG12	2.43	0.46
1:C:369:GLY:HA2	1:C:391:TRP:CZ2	2.51	0.46
1:D:357:ILE:HG12	1:D:403:ASN:ND2	2.30	0.46
1:D:454:GLU:HA	1:D:457:ARG:HG2	1.98	0.46
1:E:361:LEU:HD23	1:E:372:ILE:HB	1.96	0.46
1:E:457:ARG:HA	1:E:457:ARG:NE	2.30	0.46
1:G:451:LYS:HD3	1:G:455:GLU:OE1	2.15	0.46
1:G:472:ASN:HB3	1:G:474:LEU:O	2.14	0.46
1:H:357:ILE:HG12	1:H:403:ASN:HD21	1.80	0.46
1:H:294:LEU:HD11	1:I:227:ASN:HB2	1.98	0.46
1:I:369:GLY:HA2	1:I:391:TRP:CZ2	2.51	0.46
1:I:456:PHE:CD1	1:I:509:LEU:HD12	2.49	0.46
1:J:408:GLN:HG2	1:J:413:VAL:HG11	1.95	0.46
1:J:445:ASN:H	1:J:445:ASN:ND2	2.13	0.46
1:I:343:PHE:CB	1:J:469:GLY:C	2.42	0.46
1:K:357:ILE:CA	1:K:360:ILE:HG12	2.43	0.46
1:L:357:ILE:HG12	1:L:403:ASN:ND2	2.30	0.46
2:M:84:LYS:N	2:M:84:LYS:HD2	2.31	0.46
2:Q:133:ILE:HD12	2:Q:143:LEU:CA	2.45	0.46
2:Q:84:LYS:N	2:Q:84:LYS:HD2	2.31	0.46
2:T:95:MET:HG2	2:T:113:ALA:CB	2.33	0.46
1:K:349:SER:CB	2:W:102:LYS:H	2.28	0.46
1:A:450:TYR:HB3	1:A:513:ALA:CB	2.45	0.46
1:B:465:ALA:CA	1:B:475:ILE:CD1	2.94	0.46
1:C:284:THR:HB	1:C:285:PRO:HD2	1.98	0.46
1:C:487:THR:HG21	1:D:459:ILE:HG21	1.94	0.46
1:C:485:PRO:HG2	1:C:489:THR:O	2.16	0.46
1:D:294:LEU:HA	1:E:273:LEU:HD23	1.97	0.46
1:E:371:ASN:O	1:E:413:VAL:HG22	2.15	0.46
1:E:464:ASN:HD21	1:E:480:SER:HB3	1.81	0.46
1:F:464:ASN:HD21	1:F:480:SER:HB3	1.81	0.46
1:F:294:LEU:CG	1:G:227:ASN:HB2	2.45	0.46
1:G:343:PHE:CG	1:H:469:GLY:HA3	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:369:GLY:HA2	1:G:391:TRP:CZ2	2.51	0.46
1:G:464:ASN:HD21	1:G:480:SER:HB3	1.81	0.46
1:H:472:ASN:HB3	1:H:474:LEU:O	2.14	0.46
1:H:464:ASN:HD21	1:H:480:SER:HB3	1.81	0.46
1:I:294:LEU:CG	1:J:227:ASN:HB2	2.45	0.46
1:K:451:LYS:HD3	1:K:455:GLU:OE1	2.15	0.46
1:A:469:GLY:HA3	1:L:343:PHE:CG	2.50	0.46
1:L:454:GLU:HA	1:L:457:ARG:HG2	1.98	0.46
2:O:100:ILE:HG22	2:O:101:LEU:H	1.81	0.46
2:O:84:LYS:HD2	2:O:84:LYS:N	2.31	0.46
2:S:133:ILE:HA	2:S:143:LEU:HA	1.97	0.46
2:T:84:LYS:HD2	2:T:84:LYS:N	2.31	0.46
2:U:100:ILE:HG22	2:U:101:LEU:H	1.81	0.46
2:U:95:MET:HG2	2:U:113:ALA:CB	2.33	0.46
2:V:133:ILE:HD12	2:V:143:LEU:CA	2.45	0.46
2:W:133:ILE:HD12	2:W:143:LEU:CA	2.45	0.46
2:X:133:ILE:HD12	2:X:143:LEU:CA	2.45	0.46
1:A:257:HIS:HE2	1:B:232:LYS:C	2.14	0.46
1:B:485:PRO:HG2	1:B:489:THR:O	2.16	0.46
1:B:450:TYR:HB3	1:B:513:ALA:CB	2.46	0.46
1:C:357:ILE:HG12	1:C:403:ASN:ND2	2.30	0.46
1:C:511:VAL:HB	1:C:512:PRO:CD	2.46	0.46
1:D:371:ASN:O	1:D:413:VAL:HG22	2.15	0.46
1:D:357:ILE:HG12	1:D:403:ASN:HD21	1.80	0.46
1:D:464:ASN:HD21	1:D:480:SER:HB3	1.81	0.46
1:D:450:TYR:HB3	1:D:513:ALA:CB	2.45	0.46
1:E:465:ALA:CA	1:E:475:ILE:CD1	2.94	0.46
1:F:369:GLY:HA2	1:F:391:TRP:CZ2	2.51	0.46
1:F:485:PRO:HG2	1:F:489:THR:O	2.16	0.46
1:G:396:ASP:O	1:G:400:GLN:HG2	2.15	0.46
1:G:294:LEU:CD1	1:H:273:LEU:HD22	2.43	0.46
1:H:408:GLN:HB3	1:H:408:GLN:HE22	0.98	0.46
1:I:464:ASN:HD21	1:I:480:SER:HB3	1.81	0.46
1:I:465:ALA:CA	1:I:475:ILE:CD1	2.94	0.46
1:J:294:LEU:CG	1:K:227:ASN:HB2	2.45	0.46
1:K:408:GLN:HB3	1:K:408:GLN:HE22	0.98	0.46
1:K:485:PRO:HG2	1:K:489:THR:O	2.16	0.46
1:L:369:GLY:HA2	1:L:391:TRP:CZ2	2.51	0.46
1:L:396:ASP:O	1:L:400:GLN:HG2	2.15	0.46
2:M:100:ILE:HG22	2:M:101:LEU:H	1.81	0.46
1:B:349:SER:CB	2:N:102:LYS:H	2.28	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:84:LYS:HD2	2:N:84:LYS:N	2.31	0.46
2:O:128:GLN:HG3	2:O:129:ASN:N	2.29	0.46
2:P:124:ASN:O	2:P:132:ARG:HD3	2.16	0.46
2:P:133:ILE:HA	2:P:143:LEU:HA	1.97	0.46
2:R:100:ILE:HG22	2:R:101:LEU:H	1.81	0.46
2:S:95:MET:HG2	2:S:113:ALA:CB	2.33	0.46
1:A:352:PHE:CD1	1:A:360:ILE:CG2	2.95	0.46
1:A:494:ASP:OD1	1:A:499:ILE:HB	2.16	0.46
1:B:451:LYS:HD3	1:B:455:GLU:OE1	2.15	0.46
1:B:389:VAL:HG23	1:C:376:ASP:CG	2.28	0.46
1:C:457:ARG:NE	1:C:457:ARG:HA	2.30	0.46
1:G:382:MET:HE1	1:G:384:LEU:CD1	2.45	0.46
1:G:373:VAL:HG23	1:G:412:ILE:HD11	1.95	0.46
1:G:450:TYR:HB3	1:G:513:ALA:CB	2.45	0.46
1:J:406:MET:HE2	1:J:415:ILE:HD11	1.97	0.46
1:J:416:ALA:CB	1:J:417:PRO:HD2	2.38	0.46
1:J:465:ALA:CA	1:J:475:ILE:CD1	2.94	0.46
1:K:361:LEU:HD23	1:K:372:ILE:HB	1.96	0.46
1:K:357:ILE:HG12	1:K:403:ASN:ND2	2.30	0.46
1:L:361:LEU:CD2	1:L:372:ILE:CG2	2.94	0.46
2:S:124:ASN:O	2:S:132:ARG:HD3	2.16	0.46
2:V:84:LYS:N	2:V:84:LYS:HD2	2.31	0.46
1:A:357:ILE:HG12	1:A:403:ASN:ND2	2.30	0.46
1:A:371:ASN:O	1:A:413:VAL:HG22	2.15	0.46
1:B:257:HIS:HE2	1:C:232:LYS:C	2.14	0.46
1:C:396:ASP:O	1:C:400:GLN:HG2	2.15	0.46
1:C:465:ALA:CA	1:C:475:ILE:CD1	2.94	0.46
1:H:348:ILE:CG2	1:H:349:SER:N	2.79	0.46
1:H:369:GLY:HA2	1:H:391:TRP:CZ2	2.51	0.46
1:H:494:ASP:OD1	1:H:499:ILE:HB	2.16	0.46
1:H:450:TYR:HB3	1:H:513:ALA:CB	2.46	0.46
1:I:494:ASP:OD1	1:I:499:ILE:HB	2.16	0.46
1:J:294:LEU:HD11	1:K:227:ASN:HB2	1.98	0.46
1:J:464:ASN:HD21	1:J:480:SER:HB3	1.81	0.46
1:K:294:LEU:HA	1:L:273:LEU:HD23	1.97	0.46
1:K:371:ASN:O	1:K:413:VAL:HG22	2.15	0.46
1:K:494:ASP:OD1	1:K:499:ILE:HB	2.16	0.46
1:L:371:ASN:O	1:L:413:VAL:HG22	2.16	0.46
2:M:133:ILE:HD12	2:M:143:LEU:CA	2.45	0.46
2:P:133:ILE:HD12	2:P:143:LEU:CA	2.45	0.46
2:T:133:ILE:HA	2:T:143:LEU:HA	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:361:LEU:CD2	1:A:372:ILE:CG2	2.94	0.46
1:B:454:GLU:HA	1:B:457:ARG:HG2	1.98	0.46
1:B:494:ASP:OD1	1:B:499:ILE:HB	2.16	0.46
1:C:357:ILE:HG12	1:C:403:ASN:HD21	1.80	0.46
1:C:382:MET:HE1	1:C:384:LEU:CD1	2.46	0.46
1:C:373:VAL:HG23	1:C:412:ILE:HD11	1.95	0.46
1:C:464:ASN:HD21	1:C:480:SER:HB3	1.81	0.46
1:F:382:MET:HE1	1:F:384:LEU:CD1	2.46	0.46
1:F:294:LEU:CD1	1:G:273:LEU:HD22	2.43	0.46
1:G:348:ILE:CG2	1:G:349:SER:N	2.79	0.46
1:G:357:ILE:HG12	1:G:403:ASN:HD21	1.80	0.46
1:H:294:LEU:CG	1:I:227:ASN:HB2	2.44	0.46
1:H:464:ASN:HD22	1:H:464:ASN:HA	1.41	0.46
1:I:294:LEU:HA	1:J:273:LEU:HD23	1.97	0.46
1:I:408:GLN:HG2	1:I:413:VAL:HG11	1.95	0.46
1:K:361:LEU:CD2	1:K:372:ILE:CG2	2.94	0.46
1:K:369:GLY:HA2	1:K:391:TRP:CZ2	2.51	0.46
1:K:450:TYR:HB3	1:K:513:ALA:CB	2.46	0.46
1:K:465:ALA:CA	1:K:475:ILE:CD1	2.94	0.46
1:K:294:LEU:CD1	1:L:273:LEU:HD22	2.43	0.46
1:L:450:TYR:HB3	1:L:513:ALA:CB	2.46	0.46
1:J:388:ASP:OD1	2:V:104:GLY:O	2.34	0.46
1:A:376:ASP:CG	1:L:389:VAL:HG23	2.28	0.46
1:B:284:THR:HB	1:B:285:PRO:HD2	1.98	0.46
1:B:511:VAL:HB	1:B:512:PRO:CD	2.46	0.46
1:C:494:ASP:OD1	1:C:499:ILE:HB	2.16	0.46
1:D:369:GLY:HA2	1:D:391:TRP:CZ2	2.51	0.46
1:E:294:LEU:HD11	1:F:227:ASN:HB2	1.98	0.46
1:E:294:LEU:CD1	1:F:273:LEU:HD22	2.43	0.46
1:F:465:ALA:CA	1:F:475:ILE:CD1	2.94	0.46
1:H:396:ASP:O	1:H:400:GLN:HG2	2.15	0.46
1:H:408:GLN:HG2	1:H:413:VAL:HG11	1.95	0.46
1:I:396:ASP:O	1:I:400:GLN:HG2	2.15	0.46
1:I:408:GLN:HE22	1:I:408:GLN:HB3	0.98	0.46
1:J:361:LEU:HD23	1:J:372:ILE:HB	1.96	0.46
1:J:406:MET:HB3	1:K:468:THR:HG21	1.95	0.46
1:J:408:GLN:HB3	1:J:408:GLN:HE22	0.98	0.46
1:J:450:TYR:HB2	1:J:510:ASP:OD1	2.16	0.46
1:L:430:GLN:HE21	1:L:430:GLN:HB3	1.42	0.46
1:L:445:ASN:H	1:L:445:ASN:ND2	2.13	0.46
1:L:450:TYR:HB2	1:L:510:ASP:OD1	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O:133:ILE:HA	2:O:143:LEU:HA	1.97	0.46
2:W:124:ASN:O	2:W:132:ARG:HD3	2.16	0.46
2:W:145:GLU:O	2:W:146:LEU:HD12	2.16	0.46
2:X:124:ASN:O	2:X:132:ARG:HD3	2.16	0.46
1:A:231:ARG:CD	1:L:256:GLN:NE2	2.48	0.45
1:A:396:ASP:O	1:A:400:GLN:HG2	2.15	0.45
1:B:357:ILE:HG12	1:B:403:ASN:ND2	2.30	0.45
1:B:369:GLY:HA2	1:B:391:TRP:CZ2	2.51	0.45
1:B:396:ASP:O	1:B:400:GLN:HG2	2.15	0.45
1:C:257:HIS:HE2	1:D:232:LYS:C	2.14	0.45
1:D:465:ALA:CA	1:D:475:ILE:CD1	2.94	0.45
1:E:284:THR:HB	1:E:285:PRO:HD2	1.98	0.45
1:E:369:GLY:HA2	1:E:391:TRP:CZ2	2.51	0.45
1:E:450:TYR:HB2	1:E:510:ASP:OD1	2.16	0.45
1:F:454:GLU:HA	1:F:457:ARG:HG2	1.98	0.45
1:G:494:ASP:OD1	1:G:499:ILE:HB	2.16	0.45
1:H:465:ALA:CA	1:H:475:ILE:CD1	2.94	0.45
1:I:388:ASP:OD1	2:U:104:GLY:O	2.34	0.45
1:J:265:LYS:NZ	1:K:245:LEU:CA	2.35	0.45
1:J:494:ASP:OD1	1:J:499:ILE:HB	2.16	0.45
1:J:450:TYR:HB3	1:J:513:ALA:CB	2.45	0.45
1:K:454:GLU:HA	1:K:457:ARG:HG2	1.98	0.45
1:K:464:ASN:HD21	1:K:480:SER:HB3	1.81	0.45
1:K:459:ILE:CD1	1:K:509:LEU:CD1	2.94	0.45
1:K:293:ARG:HH11	1:L:272:THR:HG21	1.64	0.45
2:M:124:ASN:O	2:M:132:ARG:HD3	2.16	0.45
2:Q:124:ASN:O	2:Q:132:ARG:HD3	2.16	0.45
1:H:349:SER:CB	2:T:102:LYS:H	2.28	0.45
2:T:124:ASN:O	2:T:132:ARG:HD3	2.16	0.45
2:T:128:GLN:HG3	2:T:129:ASN:N	2.29	0.45
1:J:349:SER:CB	2:V:102:LYS:H	2.28	0.45
2:V:124:ASN:O	2:V:132:ARG:HD3	2.16	0.45
1:A:260:ILE:HD12	1:A:302:ILE:HB	1.99	0.45
1:A:445:ASN:H	1:A:445:ASN:ND2	2.13	0.45
1:B:424:LYS:CD	1:B:428:PHE:CE1	3.00	0.45
1:B:464:ASN:HD21	1:B:480:SER:HB3	1.81	0.45
1:C:388:ASP:OD1	2:O:104:GLY:O	2.34	0.45
1:C:424:LYS:CD	1:C:428:PHE:CE1	3.00	0.45
1:C:450:TYR:HB3	1:C:513:ALA:CB	2.46	0.45
1:D:348:ILE:CG2	1:D:349:SER:N	2.79	0.45
1:D:465:ALA:HA	1:D:475:ILE:HG12	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:450:TYR:HB3	1:E:513:ALA:CB	2.46	0.45
1:F:361:LEU:HD23	1:F:372:ILE:HB	1.96	0.45
1:G:511:VAL:CB	1:G:512:PRO:HD3	2.43	0.45
1:H:371:ASN:O	1:H:413:VAL:HG22	2.15	0.45
1:H:361:LEU:HD23	1:H:372:ILE:HB	1.96	0.45
1:G:406:MET:CG	1:H:468:THR:HG21	2.47	0.45
1:I:348:ILE:CG2	1:I:349:SER:N	2.79	0.45
1:I:371:ASN:O	1:I:413:VAL:HG22	2.16	0.45
1:I:445:ASN:ND2	1:I:445:ASN:H	2.13	0.45
1:J:260:ILE:HD12	1:J:302:ILE:HB	1.99	0.45
1:K:388:ASP:OD1	2:W:104:GLY:O	2.34	0.45
1:K:396:ASP:O	1:K:400:GLN:HG2	2.15	0.45
1:L:284:THR:HB	1:L:285:PRO:HD2	1.98	0.45
1:L:347:LYS:HE3	2:X:104:GLY:CA	2.35	0.45
1:L:494:ASP:OD1	1:L:499:ILE:HB	2.16	0.45
2:O:133:ILE:HD12	2:O:143:LEU:CA	2.45	0.45
2:P:100:ILE:HG22	2:P:101:LEU:H	1.81	0.45
2:R:95:MET:HG2	2:R:113:ALA:CB	2.33	0.45
2:X:100:ILE:HG22	2:X:101:LEU:H	1.81	0.45
1:A:294:LEU:HA	1:B:273:LEU:HD23	1.97	0.45
1:A:369:GLY:HA2	1:A:391:TRP:CZ2	2.51	0.45
1:A:465:ALA:CA	1:A:475:ILE:CD1	2.94	0.45
1:A:294:LEU:HD11	1:B:227:ASN:HB2	1.98	0.45
1:B:294:LEU:HD11	1:C:227:ASN:HB2	1.98	0.45
1:B:371:ASN:O	1:B:413:VAL:HG22	2.15	0.45
1:A:389:VAL:HG23	1:B:376:ASP:CG	2.28	0.45
1:C:348:ILE:CG2	1:C:349:SER:N	2.79	0.45
1:C:454:GLU:HA	1:C:457:ARG:HG2	1.98	0.45
1:D:257:HIS:HE2	1:E:232:LYS:C	2.14	0.45
1:D:294:LEU:HD11	1:E:227:ASN:HB2	1.98	0.45
1:D:450:TYR:HB2	1:D:510:ASP:OD1	2.16	0.45
1:F:450:TYR:HB2	1:F:510:ASP:OD1	2.16	0.45
1:G:465:ALA:CA	1:G:475:ILE:CD1	2.94	0.45
1:G:481:VAL:O	1:G:481:VAL:HG13	2.17	0.45
1:H:285:PRO:HG2	1:H:324:VAL:HG12	1.99	0.45
1:J:485:PRO:HG2	1:J:489:THR:O	2.16	0.45
1:A:227:ASN:HB2	1:L:294:LEU:HD11	1.98	0.45
1:L:465:ALA:CA	1:L:475:ILE:CD1	2.94	0.45
2:N:133:ILE:HD12	2:N:143:LEU:CA	2.45	0.45
2:O:97:TYR:CZ	2:O:141:ILE:HD11	2.52	0.45
1:D:347:LYS:CE	2:P:104:GLY:N	2.67	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:S:128:GLN:HG3	2:S:129:ASN:N	2.29	0.45
2:T:97:TYR:CZ	2:T:141:ILE:HD11	2.52	0.45
2:U:133:ILE:HA	2:U:143:LEU:HA	1.97	0.45
1:A:468:THR:HG21	1:L:406:MET:CG	2.46	0.45
1:A:450:TYR:HB2	1:A:510:ASP:OD1	2.16	0.45
1:B:294:LEU:HA	1:C:273:LEU:HD23	1.97	0.45
1:B:450:TYR:CE2	1:B:514:GLN:CG	2.96	0.45
1:C:465:ALA:HA	1:C:475:ILE:HG12	1.98	0.45
1:D:285:PRO:HG2	1:D:324:VAL:HG12	1.99	0.45
1:D:361:LEU:CD2	1:D:372:ILE:CG2	2.94	0.45
1:D:459:ILE:CD1	1:D:509:LEU:CD1	2.94	0.45
1:E:349:SER:CB	2:Q:102:LYS:H	2.28	0.45
1:E:396:ASP:O	1:E:400:GLN:HG2	2.15	0.45
1:E:431:ALA:CB	1:E:436:ALA:CB	2.95	0.45
1:E:485:PRO:HG2	1:E:489:THR:O	2.16	0.45
1:F:284:THR:HB	1:F:285:PRO:HD2	1.98	0.45
1:F:357:ILE:CA	1:F:360:ILE:HG12	2.43	0.45
1:F:431:ALA:CB	1:F:436:ALA:CB	2.95	0.45
1:E:406:MET:CG	1:F:468:THR:HG21	2.46	0.45
1:F:490:LEU:CD2	1:F:506:ILE:HD11	2.44	0.45
1:G:294:LEU:HD11	1:H:227:ASN:HB2	1.98	0.45
1:G:485:PRO:HG2	1:G:489:THR:O	2.16	0.45
1:H:485:PRO:HG2	1:H:489:THR:O	2.16	0.45
1:I:485:PRO:HG2	1:I:489:THR:O	2.16	0.45
1:I:450:TYR:HB2	1:I:510:ASP:OD1	2.16	0.45
1:J:361:LEU:CD2	1:J:372:ILE:CG2	2.94	0.45
1:J:515:GLN:HB3	1:J:515:GLN:HE21	1.56	0.45
1:K:343:PHE:HB3	1:L:471:ARG:H	1.82	0.45
1:L:464:ASN:HD21	1:L:480:SER:HB3	1.81	0.45
1:L:459:ILE:CD1	1:L:509:LEU:CD1	2.94	0.45
2:N:145:GLU:O	2:N:146:LEU:HD12	2.16	0.45
2:N:97:TYR:CZ	2:N:141:ILE:HD11	2.52	0.45
2:P:84:LYS:N	2:P:84:LYS:HD2	2.31	0.45
2:T:126:LEU:HD11	2:T:133:ILE:N	2.32	0.45
2:U:84:LYS:HD2	2:U:84:LYS:N	2.31	0.45
1:A:273:LEU:HD22	1:L:294:LEU:CD1	2.43	0.45
1:A:424:LYS:CD	1:A:428:PHE:CE1	3.00	0.45
1:A:464:ASN:HD21	1:A:480:SER:HB3	1.81	0.45
1:A:465:ALA:HA	1:A:475:ILE:HG12	1.98	0.45
1:A:511:VAL:HB	1:A:512:PRO:CD	2.46	0.45
1:B:361:LEU:CD2	1:B:372:ILE:CG2	2.94	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:481:VAL:HG13	1:B:481:VAL:O	2.17	0.45
1:B:487:THR:HG21	1:C:459:ILE:HG21	1.93	0.45
1:C:285:PRO:HG2	1:C:324:VAL:HG12	1.99	0.45
1:C:294:LEU:HD11	1:D:227:ASN:HB2	1.98	0.45
1:D:431:ALA:CB	1:D:436:ALA:CB	2.95	0.45
1:D:424:LYS:CE	1:D:441:LEU:HD12	2.17	0.45
1:D:494:ASP:OD1	1:D:499:ILE:HB	2.16	0.45
1:E:257:HIS:HE2	1:F:232:LYS:C	2.14	0.45
1:D:294:LEU:CD1	1:E:273:LEU:HD22	2.43	0.45
1:E:445:ASN:ND2	1:E:445:ASN:H	2.13	0.45
1:E:481:VAL:HG13	1:E:481:VAL:O	2.17	0.45
1:F:430:GLN:HB3	1:F:430:GLN:HE21	1.42	0.45
1:F:294:LEU:HD11	1:G:227:ASN:HB2	1.98	0.45
1:G:361:LEU:CD1	1:G:374:ALA:HB2	2.47	0.45
1:H:361:LEU:CD2	1:H:372:ILE:CG2	2.94	0.45
1:H:445:ASN:H	1:H:445:ASN:ND2	2.13	0.45
1:I:260:ILE:HD12	1:I:302:ILE:HB	1.99	0.45
1:I:361:LEU:CD1	1:I:374:ALA:HB2	2.47	0.45
1:J:369:GLY:HA2	1:J:391:TRP:CZ2	2.51	0.45
1:J:361:LEU:CD1	1:J:374:ALA:HB2	2.47	0.45
1:J:450:TYR:CE2	1:J:514:GLN:CG	2.96	0.45
1:L:481:VAL:HG13	1:L:481:VAL:O	2.17	0.45
1:L:485:PRO:HG2	1:L:489:THR:O	2.16	0.45
1:B:388:ASP:OD1	2:N:104:GLY:O	2.34	0.45
2:N:124:ASN:O	2:N:132:ARG:HD3	2.16	0.45
2:N:133:ILE:HA	2:N:143:LEU:HA	1.97	0.45
2:O:124:ASN:O	2:O:132:ARG:HD3	2.16	0.45
1:G:349:SER:CB	2:S:102:LYS:H	2.28	0.45
2:U:124:ASN:O	2:U:132:ARG:HD3	2.16	0.45
2:V:145:GLU:O	2:V:146:LEU:HD12	2.16	0.45
1:A:349:SER:OG	2:M:102:LYS:HG3	2.12	0.45
1:A:357:ILE:CA	1:A:360:ILE:HG12	2.43	0.45
1:A:388:ASP:OD1	2:M:104:GLY:O	2.34	0.45
1:B:285:PRO:HG2	1:B:324:VAL:HG12	1.99	0.45
1:C:402:ARG:CG	1:C:422:LEU:HD11	2.47	0.45
1:C:494:ASP:OD2	1:C:498:VAL:HB	2.17	0.45
1:C:459:ILE:CD1	1:C:509:LEU:CD1	2.94	0.45
1:D:424:LYS:CD	1:D:428:PHE:CE1	3.00	0.45
1:D:494:ASP:OD2	1:D:498:VAL:HB	2.17	0.45
1:E:343:PHE:CG	1:F:469:GLY:HA3	2.50	0.45
1:F:388:ASP:OD1	2:R:104:GLY:O	2.34	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:465:ALA:HA	1:F:475:ILE:HG12	1.98	0.45
1:F:494:ASP:OD1	1:F:499:ILE:HB	2.16	0.45
1:F:448:LEU:CD1	1:F:506:ILE:CG2	2.94	0.45
1:G:260:ILE:HD12	1:G:302:ILE:HB	1.99	0.45
1:G:285:PRO:HG2	1:G:324:VAL:HG12	1.99	0.45
1:G:431:ALA:CB	1:G:436:ALA:CB	2.95	0.45
1:H:284:THR:HB	1:H:285:PRO:HD2	1.98	0.45
1:H:361:LEU:CD1	1:H:374:ALA:HB2	2.47	0.45
1:I:285:PRO:HG2	1:I:324:VAL:HG12	1.99	0.45
1:I:343:PHE:HB3	1:J:471:ARG:H	1.82	0.45
1:H:406:MET:CB	1:I:468:THR:HG21	2.47	0.45
1:I:481:VAL:HG13	1:I:481:VAL:O	2.17	0.45
1:J:396:ASP:O	1:J:400:GLN:HG2	2.15	0.45
1:K:406:MET:CB	1:L:468:THR:HG21	2.47	0.45
1:K:490:LEU:CD2	1:K:506:ILE:HD11	2.44	0.45
1:A:471:ARG:H	1:L:343:PHE:HB3	1.82	0.45
2:M:133:ILE:HA	2:M:143:LEU:HA	1.97	0.45
2:P:97:TYR:CZ	2:P:141:ILE:HD11	2.52	0.45
2:R:124:ASN:O	2:R:132:ARG:HD3	2.16	0.45
2:R:136:ILE:HG22	2:R:137:THR:H	1.82	0.45
2:S:100:ILE:HG22	2:S:101:LEU:H	1.81	0.45
2:S:97:TYR:CZ	2:S:141:ILE:HD11	2.52	0.45
2:T:145:GLU:O	2:T:146:LEU:HD12	2.16	0.45
2:X:145:GLU:O	2:X:146:LEU:HD12	2.16	0.45
1:A:285:PRO:HG2	1:A:324:VAL:HG12	1.99	0.45
1:A:361:LEU:HD23	1:A:372:ILE:HB	1.96	0.45
1:A:459:ILE:CD1	1:A:509:LEU:CD1	2.94	0.45
1:B:402:ARG:CG	1:B:422:LEU:HD11	2.47	0.45
1:B:494:ASP:OD2	1:B:498:VAL:HB	2.17	0.45
1:B:459:ILE:CD1	1:B:509:LEU:CD1	2.94	0.45
1:C:431:ALA:CB	1:C:436:ALA:CB	2.95	0.45
1:D:402:ARG:CG	1:D:422:LEU:HD11	2.47	0.45
1:E:402:ARG:CG	1:E:422:LEU:HD11	2.47	0.45
1:H:343:PHE:HB3	1:I:471:ARG:H	1.82	0.45
1:I:284:THR:HB	1:I:285:PRO:HD2	1.98	0.45
1:I:349:SER:CB	2:U:102:LYS:H	2.28	0.45
1:I:450:TYR:CE2	1:I:514:GLN:CG	2.96	0.45
1:K:361:LEU:CD1	1:K:374:ALA:HB2	2.47	0.45
1:J:406:MET:CG	1:K:468:THR:HG21	2.47	0.45
1:J:343:PHE:HB3	1:K:471:ARG:H	1.82	0.45
1:K:481:VAL:HG13	1:K:481:VAL:O	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:402:ARG:CG	1:L:422:LEU:HD11	2.47	0.45
1:G:388:ASP:OD1	2:S:104:GLY:O	2.34	0.45
2:U:136:ILE:HG22	2:U:137:THR:H	1.82	0.45
1:A:284:THR:HB	1:A:285:PRO:HD2	1.98	0.45
1:A:343:PHE:HB3	1:B:471:ARG:H	1.82	0.45
1:A:347:LYS:HE3	2:M:104:GLY:CA	2.35	0.45
1:A:424:LYS:CG	1:A:428:PHE:CZ	2.93	0.45
1:A:467:THR:OG1	1:A:476:SER:HB2	2.17	0.45
1:A:494:ASP:OD2	1:A:498:VAL:HB	2.17	0.45
1:B:467:THR:OG1	1:B:476:SER:HB2	2.17	0.45
1:B:448:LEU:CD1	1:B:506:ILE:CG2	2.94	0.45
1:C:450:TYR:HB2	1:C:510:ASP:OD1	2.16	0.45
1:C:467:THR:OG1	1:C:476:SER:HB2	2.17	0.45
1:D:388:ASP:OD1	2:P:104:GLY:O	2.34	0.45
1:E:285:PRO:HG2	1:E:324:VAL:HG12	1.99	0.45
1:E:348:ILE:CG2	1:E:349:SER:N	2.79	0.45
1:E:494:ASP:OD2	1:E:498:VAL:HB	2.17	0.45
1:F:402:ARG:CG	1:F:422:LEU:HD11	2.47	0.45
1:G:450:TYR:HB2	1:G:510:ASP:OD1	2.16	0.45
1:H:388:ASP:OD1	2:T:104:GLY:O	2.34	0.45
1:H:431:ALA:CB	1:H:436:ALA:CB	2.95	0.45
1:L:285:PRO:HG2	1:L:324:VAL:HG12	1.99	0.45
1:L:260:ILE:HD12	1:L:302:ILE:HB	1.99	0.45
2:N:136:ILE:HG22	2:N:137:THR:H	1.82	0.45
2:O:136:ILE:HG22	2:O:137:THR:H	1.82	0.45
2:O:145:GLU:O	2:O:146:LEU:HD12	2.16	0.45
2:Q:97:TYR:CZ	2:Q:141:ILE:HD11	2.52	0.45
2:V:100:ILE:HG22	2:V:101:LEU:H	1.81	0.45
2:V:133:ILE:HA	2:V:143:LEU:HA	1.97	0.45
2:W:126:LEU:HD11	2:W:133:ILE:N	2.32	0.45
2:W:136:ILE:HG22	2:W:137:THR:H	1.82	0.45
2:X:136:ILE:HG22	2:X:137:THR:H	1.82	0.45
1:A:240:ILE:HD11	1:A:286:VAL:HG21	1.99	0.45
1:A:402:ARG:CG	1:A:422:LEU:HD11	2.47	0.45
1:D:284:THR:HB	1:D:285:PRO:HD2	1.98	0.45
1:D:260:ILE:HD12	1:D:302:ILE:HB	1.99	0.45
1:D:361:LEU:HD11	1:D:372:ILE:HG22	1.99	0.45
1:D:516:VAL:CG2	1:D:517:MET:N	2.74	0.45
1:E:361:LEU:CD2	1:E:372:ILE:CG2	2.94	0.45
1:E:361:LEU:HD11	1:E:372:ILE:HG22	1.99	0.45
1:F:255:GLN:CG	1:F:310:LEU:HD23	2.47	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:361:LEU:CD2	1:G:372:ILE:CG2	2.94	0.45
1:G:402:ARG:CG	1:G:422:LEU:HD11	2.47	0.45
1:G:454:GLU:HA	1:G:457:ARG:HG2	1.98	0.45
1:I:402:ARG:CG	1:I:422:LEU:HD11	2.47	0.45
1:J:389:VAL:HG23	1:K:376:ASP:CG	2.28	0.45
1:K:294:LEU:HD11	1:L:227:ASN:HB2	1.98	0.45
1:L:361:LEU:CD1	1:L:374:ALA:HB2	2.47	0.45
1:L:424:LYS:CD	1:L:428:PHE:CE1	3.00	0.45
2:M:145:GLU:O	2:M:146:LEU:HD12	2.16	0.45
2:N:95:MET:HG2	2:N:113:ALA:CB	2.33	0.45
1:E:388:ASP:OD1	2:Q:104:GLY:O	2.34	0.45
2:S:145:GLU:O	2:S:146:LEU:HD12	2.16	0.45
1:B:240:ILE:HD11	1:B:286:VAL:HG21	1.99	0.45
1:B:260:ILE:HD12	1:B:302:ILE:HB	1.99	0.45
1:C:349:SER:CB	2:O:102:LYS:H	2.28	0.45
1:C:361:LEU:CD2	1:C:372:ILE:CG2	2.94	0.45
1:B:343:PHE:HB3	1:C:471:ARG:H	1.82	0.45
1:C:498:VAL:HG12	1:C:502:PHE:CE1	2.52	0.45
1:D:481:VAL:HG13	1:D:481:VAL:O	2.17	0.45
1:E:467:THR:OG1	1:E:476:SER:HB2	2.17	0.45
1:F:361:LEU:CD2	1:F:372:ILE:CG2	2.94	0.45
1:G:467:THR:OG1	1:G:476:SER:HB2	2.17	0.45
1:H:255:GLN:CG	1:H:310:LEU:HD23	2.47	0.45
1:H:476:SER:HB3	1:H:477:GLY:H	1.61	0.45
1:H:494:ASP:OD2	1:H:498:VAL:HB	2.17	0.45
1:I:255:GLN:CG	1:I:310:LEU:HD23	2.47	0.45
1:I:424:LYS:CD	1:I:428:PHE:CE1	3.00	0.45
1:J:284:THR:HB	1:J:285:PRO:HD2	1.98	0.45
1:J:348:ILE:CG2	1:J:349:SER:N	2.79	0.45
1:K:450:TYR:CE2	1:K:514:GLN:CG	2.96	0.45
1:L:255:GLN:CG	1:L:310:LEU:HD23	2.47	0.45
1:L:431:ALA:CB	1:L:436:ALA:CB	2.95	0.45
1:L:467:THR:OG1	1:L:476:SER:HB2	2.17	0.45
2:P:126:LEU:HD11	2:P:133:ILE:N	2.32	0.45
2:V:126:LEU:HD11	2:V:133:ILE:N	2.32	0.45
2:W:100:ILE:HG22	2:W:101:LEU:H	1.80	0.45
2:X:133:ILE:HA	2:X:143:LEU:HA	1.97	0.45
1:A:481:VAL:HG13	1:A:481:VAL:O	2.17	0.44
1:D:382:MET:HE1	1:D:384:LEU:CD1	2.47	0.44
1:D:467:THR:OG1	1:D:476:SER:HB2	2.17	0.44
1:E:424:LYS:CD	1:E:428:PHE:CE1	3.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:498:VAL:HG12	1:E:502:PHE:CE1	2.53	0.44
1:F:257:HIS:HE2	1:G:232:LYS:C	2.14	0.44
1:F:260:ILE:HD12	1:F:302:ILE:HB	1.99	0.44
1:F:494:ASP:OD2	1:F:498:VAL:HB	2.17	0.44
1:F:496:ARG:CA	1:F:499:ILE:HG22	2.47	0.44
1:G:284:THR:HB	1:G:285:PRO:HD2	1.98	0.44
1:G:445:ASN:H	1:G:445:ASN:ND2	2.13	0.44
1:G:465:ALA:HA	1:G:475:ILE:HG12	1.98	0.44
1:H:406:MET:HB3	1:I:468:THR:HG21	1.95	0.44
1:H:454:GLU:HA	1:H:457:ARG:HG2	1.98	0.44
1:H:467:THR:OG1	1:H:476:SER:HB2	2.17	0.44
1:H:498:VAL:HG12	1:H:502:PHE:CE1	2.53	0.44
1:I:431:ALA:CB	1:I:436:ALA:CB	2.95	0.44
1:I:496:ARG:CA	1:I:499:ILE:HG22	2.47	0.44
1:J:343:PHE:CG	1:K:469:GLY:HA3	2.50	0.44
1:J:424:LYS:CD	1:J:440:ALA:CA	2.93	0.44
1:J:454:GLU:HA	1:J:457:ARG:HG2	1.98	0.44
1:J:467:THR:OG1	1:J:476:SER:HB2	2.17	0.44
1:K:255:GLN:CG	1:K:310:LEU:HD23	2.47	0.44
1:K:450:TYR:HB2	1:K:510:ASP:OD1	2.16	0.44
1:K:494:ASP:OD2	1:K:498:VAL:HB	2.17	0.44
1:L:240:ILE:HD11	1:L:286:VAL:HG21	1.99	0.44
1:A:273:LEU:HD23	1:L:294:LEU:HA	1.97	0.44
1:L:361:LEU:HD11	1:L:372:ILE:HG22	1.99	0.44
1:L:511:VAL:HB	1:L:512:PRO:CD	2.46	0.44
1:A:349:SER:CB	2:M:102:LYS:H	2.28	0.44
2:M:136:ILE:HG22	2:M:137:THR:H	1.82	0.44
2:U:145:GLU:O	2:U:146:LEU:HD12	2.16	0.44
1:L:349:SER:CB	2:X:102:LYS:H	2.28	0.44
1:A:431:ALA:CB	1:A:436:ALA:CB	2.95	0.44
1:B:465:ALA:HA	1:B:475:ILE:HG12	1.98	0.44
1:B:450:TYR:HB2	1:B:510:ASP:OD1	2.16	0.44
1:E:494:ASP:OD1	1:E:499:ILE:HB	2.16	0.44
1:E:515:GLN:HE21	1:E:515:GLN:HB3	1.56	0.44
1:F:361:LEU:CD1	1:F:374:ALA:HB2	2.47	0.44
1:F:467:THR:OG1	1:F:476:SER:HB2	2.17	0.44
1:G:496:ARG:CA	1:G:499:ILE:HG22	2.47	0.44
1:H:450:TYR:CE2	1:H:514:GLN:CG	2.96	0.44
1:G:343:PHE:HB3	1:H:471:ARG:H	1.82	0.44
1:H:450:TYR:HB2	1:H:510:ASP:OD1	2.16	0.44
1:I:361:LEU:CD2	1:I:372:ILE:CG2	2.94	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:454:GLU:HA	1:I:457:ARG:HG2	1.98	0.44
1:I:467:THR:OG1	1:I:476:SER:HB2	2.17	0.44
1:J:371:ASN:O	1:J:413:VAL:HG22	2.15	0.44
1:J:481:VAL:HG13	1:J:481:VAL:O	2.17	0.44
1:J:494:ASP:OD2	1:J:498:VAL:HB	2.17	0.44
1:J:498:VAL:HG12	1:J:502:PHE:CE1	2.52	0.44
1:K:260:ILE:HD12	1:K:302:ILE:HB	1.99	0.44
1:K:284:THR:HB	1:K:285:PRO:HD2	1.98	0.44
1:K:285:PRO:HG2	1:K:324:VAL:HG12	1.99	0.44
1:L:388:ASP:OD1	2:X:104:GLY:O	2.34	0.44
1:L:494:ASP:OD2	1:L:498:VAL:HB	2.17	0.44
2:N:126:LEU:HD11	2:N:133:ILE:N	2.32	0.44
2:U:126:LEU:HD11	2:U:133:ILE:N	2.32	0.44
2:U:97:TYR:CZ	2:U:141:ILE:HD11	2.52	0.44
2:W:133:ILE:HA	2:W:143:LEU:HA	1.97	0.44
1:A:361:LEU:HD11	1:A:372:ILE:HG22	1.99	0.44
1:B:352:PHE:CD1	1:B:360:ILE:CG2	2.95	0.44
1:B:373:VAL:HG23	1:B:412:ILE:HD11	1.95	0.44
1:B:431:ALA:CB	1:B:436:ALA:CB	2.95	0.44
1:C:255:GLN:CG	1:C:310:LEU:HD23	2.47	0.44
1:C:260:ILE:HD12	1:C:302:ILE:HB	1.99	0.44
1:C:240:ILE:HD11	1:C:286:VAL:HG21	1.99	0.44
1:D:498:VAL:HG12	1:D:502:PHE:CE1	2.52	0.44
1:E:361:LEU:CD1	1:E:374:ALA:HB2	2.47	0.44
1:F:445:ASN:H	1:F:445:ASN:ND2	2.13	0.44
1:G:494:ASP:OD2	1:G:498:VAL:HB	2.17	0.44
1:J:285:PRO:HG2	1:J:324:VAL:HG12	1.99	0.44
1:J:496:ARG:CA	1:J:499:ILE:HG22	2.47	0.44
2:M:126:LEU:HD11	2:M:133:ILE:N	2.32	0.44
2:R:97:TYR:CZ	2:R:141:ILE:HD11	2.52	0.44
2:W:161:LEU:HD22	2:W:162:LEU:C	2.38	0.44
2:W:97:TYR:CZ	2:W:141:ILE:HD11	2.52	0.44
1:A:348:ILE:CG2	1:A:349:SER:N	2.79	0.44
1:A:498:VAL:HG12	1:A:502:PHE:CE1	2.52	0.44
1:B:255:GLN:CG	1:B:310:LEU:HD23	2.47	0.44
1:B:379:ASN:ND2	1:B:422:LEU:HD21	2.33	0.44
1:B:424:LYS:CG	1:B:428:PHE:CZ	2.93	0.44
1:B:483:ILE:O	1:B:483:ILE:HG13	2.17	0.44
1:B:498:VAL:HG12	1:B:502:PHE:CE1	2.53	0.44
1:C:343:PHE:CG	1:D:469:GLY:HA3	2.50	0.44
1:C:483:ILE:HG13	1:C:483:ILE:O	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:421:LEU:HD23	1:E:421:LEU:HA	1.80	0.44
1:E:430:GLN:HB3	1:E:430:GLN:HE21	1.42	0.44
1:E:496:ARG:CA	1:E:499:ILE:HG22	2.47	0.44
1:E:406:MET:CB	1:F:468:THR:HG21	2.47	0.44
1:G:240:ILE:HD11	1:G:286:VAL:HG21	1.99	0.44
1:G:379:ASN:ND2	1:G:422:LEU:HD21	2.33	0.44
1:H:240:ILE:HD11	1:H:286:VAL:HG21	1.99	0.44
1:H:424:LYS:CD	1:H:440:ALA:CA	2.93	0.44
1:H:424:LYS:CE	1:H:441:LEU:HD12	2.16	0.44
1:H:481:VAL:O	1:H:481:VAL:HG13	2.17	0.44
1:I:370:MET:SD	1:I:413:VAL:HG11	2.58	0.44
1:I:465:ALA:HA	1:I:475:ILE:HG12	1.98	0.44
1:H:406:MET:CG	1:I:468:THR:HG21	2.46	0.44
1:J:402:ARG:CG	1:J:422:LEU:HD11	2.47	0.44
1:K:361:LEU:HD11	1:K:372:ILE:HG22	1.99	0.44
1:K:424:LYS:CD	1:K:428:PHE:CE1	3.00	0.44
1:K:498:VAL:HG12	1:K:502:PHE:CE1	2.53	0.44
1:L:424:LYS:CG	1:L:428:PHE:CZ	2.93	0.44
1:L:424:LYS:CD	1:L:440:ALA:CA	2.93	0.44
1:L:465:ALA:HA	1:L:475:ILE:HG12	1.98	0.44
2:P:136:ILE:HG22	2:P:137:THR:H	1.82	0.44
2:R:145:GLU:O	2:R:146:LEU:HD12	2.16	0.44
2:S:126:LEU:HD11	2:S:133:ILE:N	2.32	0.44
2:X:161:LEU:HD22	2:X:162:LEU:C	2.38	0.44
1:A:255:GLN:CG	1:A:310:LEU:HD23	2.47	0.44
1:A:361:LEU:CD1	1:A:374:ALA:HB2	2.47	0.44
1:A:379:ASN:ND2	1:A:422:LEU:HD21	2.33	0.44
1:A:483:ILE:O	1:A:483:ILE:HG13	2.17	0.44
1:C:294:LEU:HA	1:D:273:LEU:HD23	1.97	0.44
1:C:343:PHE:HB3	1:D:471:ARG:H	1.82	0.44
1:C:361:LEU:HD11	1:C:372:ILE:HG22	1.99	0.44
1:C:371:ASN:O	1:C:413:VAL:HG22	2.16	0.44
1:D:483:ILE:O	1:D:483:ILE:HG13	2.17	0.44
1:E:255:GLN:CG	1:E:310:LEU:HD23	2.47	0.44
1:E:431:ALA:HB1	1:E:436:ALA:CB	2.48	0.44
1:E:483:ILE:HG13	1:E:483:ILE:O	2.17	0.44
1:G:361:LEU:O	1:G:361:LEU:HD23	2.18	0.44
1:G:464:ASN:HD22	1:G:464:ASN:HA	1.41	0.44
1:H:379:ASN:ND2	1:H:422:LEU:HD21	2.33	0.44
1:H:431:ALA:HB1	1:H:436:ALA:CB	2.48	0.44
1:H:496:ARG:CA	1:H:499:ILE:HG22	2.47	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:431:ALA:CB	1:J:436:ALA:CB	2.95	0.44
1:K:467:THR:OG1	1:K:476:SER:HB2	2.17	0.44
2:O:126:LEU:HD11	2:O:133:ILE:N	2.32	0.44
2:P:145:GLU:O	2:P:146:LEU:HD12	2.16	0.44
2:Q:161:LEU:HD22	2:Q:162:LEU:C	2.38	0.44
2:V:136:ILE:HG22	2:V:137:THR:H	1.82	0.44
2:V:95:MET:HG2	2:V:113:ALA:CB	2.33	0.44
2:X:97:TYR:CZ	2:X:141:ILE:HD11	2.52	0.44
1:B:361:LEU:CD1	1:B:374:ALA:HB2	2.47	0.44
1:C:481:VAL:O	1:C:481:VAL:HG13	2.17	0.44
1:D:460:LEU:O	1:D:464:ASN:HB2	2.18	0.44
1:C:406:MET:CG	1:D:468:THR:HG21	2.46	0.44
1:E:361:LEU:HD23	1:E:361:LEU:O	2.18	0.44
1:E:465:ALA:HA	1:E:475:ILE:HG12	1.98	0.44
1:F:361:LEU:HD11	1:F:372:ILE:HG22	1.99	0.44
1:F:424:LYS:CD	1:F:428:PHE:CE1	3.00	0.44
1:F:431:ALA:HB1	1:F:436:ALA:CB	2.48	0.44
1:F:498:VAL:HG12	1:F:502:PHE:CE1	2.52	0.44
1:G:255:GLN:CG	1:G:310:LEU:HD23	2.47	0.44
1:G:424:LYS:CD	1:G:428:PHE:CE1	3.00	0.44
1:G:431:ALA:HB1	1:G:436:ALA:CB	2.48	0.44
1:H:349:SER:OG	2:T:102:LYS:HG3	2.12	0.44
1:H:460:LEU:O	1:H:464:ASN:HB2	2.18	0.44
1:I:431:ALA:HB1	1:I:436:ALA:CB	2.48	0.44
1:I:460:LEU:O	1:I:464:ASN:HB2	2.18	0.44
1:I:498:VAL:HG12	1:I:502:PHE:CE1	2.52	0.44
1:I:490:LEU:CD2	1:I:506:ILE:HD11	2.44	0.44
1:J:465:ALA:HA	1:J:475:ILE:HG12	1.98	0.44
1:K:431:ALA:CB	1:K:436:ALA:CB	2.95	0.44
1:L:498:VAL:HG12	1:L:502:PHE:CE1	2.52	0.44
2:Q:126:LEU:HD11	2:Q:133:ILE:N	2.32	0.44
2:R:126:LEU:HD11	2:R:133:ILE:N	2.32	0.44
1:A:294:LEU:CD1	1:B:273:LEU:HD22	2.43	0.44
1:B:295:ASN:HD21	1:C:270:PRO:HD3	1.27	0.44
1:B:361:LEU:HD23	1:B:361:LEU:O	2.18	0.44
1:C:361:LEU:CD1	1:C:374:ALA:HB2	2.47	0.44
1:D:255:GLN:CG	1:D:310:LEU:HD23	2.47	0.44
1:D:431:ALA:HB1	1:D:436:ALA:CB	2.48	0.44
1:D:343:PHE:HB3	1:E:471:ARG:H	1.82	0.44
1:F:285:PRO:HG2	1:F:324:VAL:HG12	1.99	0.44
1:F:343:PHE:HB3	1:G:471:ARG:H	1.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:343:PHE:HB3	1:F:471:ARG:H	1.82	0.44
1:F:481:VAL:HG13	1:F:481:VAL:O	2.17	0.44
1:G:498:VAL:HG12	1:G:502:PHE:CE1	2.52	0.44
1:G:515:GLN:HE21	1:G:515:GLN:HB3	1.56	0.44
1:H:260:ILE:HD12	1:H:302:ILE:HB	1.99	0.44
1:H:448:LEU:CD1	1:H:506:ILE:CG2	2.94	0.44
1:I:240:ILE:HD11	1:I:286:VAL:HG21	1.99	0.44
1:J:361:LEU:HD11	1:J:372:ILE:HG22	1.99	0.44
1:K:240:ILE:HD11	1:K:286:VAL:HG21	1.99	0.44
1:K:361:LEU:HD23	1:K:361:LEU:O	2.18	0.44
1:K:402:ARG:CG	1:K:422:LEU:HD11	2.47	0.44
1:K:511:VAL:HB	1:K:512:PRO:CD	2.46	0.44
1:K:516:VAL:CG2	1:K:517:MET:N	2.74	0.44
1:L:483:ILE:O	1:L:483:ILE:HG13	2.17	0.44
2:M:97:TYR:CZ	2:M:141:ILE:HD11	2.52	0.44
2:P:87:LEU:HD12	2:P:95:MET:HE1	1.99	0.44
2:Q:145:GLU:O	2:Q:146:LEU:HD12	2.16	0.44
2:X:98:VAL:CG1	2:X:112:GLU:HB3	2.46	0.44
2:X:126:LEU:HD11	2:X:133:ILE:N	2.32	0.44
1:A:448:LEU:CD1	1:A:506:ILE:CG2	2.94	0.44
1:C:370:MET:SD	1:C:413:VAL:HG11	2.58	0.44
1:C:379:ASN:ND2	1:C:422:LEU:HD21	2.33	0.44
1:D:361:LEU:O	1:D:361:LEU:HD23	2.18	0.44
1:D:361:LEU:CD1	1:D:374:ALA:HB2	2.47	0.44
1:D:496:ARG:CA	1:D:499:ILE:HG22	2.47	0.44
1:F:240:ILE:HD11	1:F:286:VAL:HG21	1.99	0.44
1:F:379:ASN:ND2	1:F:422:LEU:HD21	2.33	0.44
1:F:483:ILE:HG13	1:F:483:ILE:O	2.17	0.44
1:H:402:ARG:CG	1:H:422:LEU:HD11	2.47	0.44
1:I:361:LEU:HD11	1:I:372:ILE:HG22	1.99	0.44
1:J:424:LYS:CD	1:J:428:PHE:CE1	3.00	0.44
1:A:295:ASN:HD21	1:B:270:PRO:HD3	1.27	0.44
1:B:460:LEU:O	1:B:464:ASN:HB2	2.18	0.44
1:B:496:ARG:CA	1:B:499:ILE:HG22	2.47	0.44
1:C:496:ARG:CA	1:C:499:ILE:HG22	2.47	0.44
1:D:240:ILE:HD11	1:D:286:VAL:HG21	1.99	0.44
1:D:370:MET:SD	1:D:413:VAL:HG11	2.58	0.44
1:D:490:LEU:CD2	1:D:506:ILE:HD11	2.44	0.44
1:E:379:ASN:ND2	1:E:422:LEU:HD21	2.33	0.44
1:F:348:ILE:CG2	1:F:349:SER:N	2.79	0.44
1:G:257:HIS:HE2	1:H:232:LYS:C	2.14	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:424:LYS:CD	1:G:440:ALA:CA	2.93	0.44
1:G:460:LEU:O	1:G:464:ASN:HB2	2.18	0.44
1:H:361:LEU:HD11	1:H:372:ILE:HG22	1.99	0.44
1:H:465:ALA:HA	1:H:475:ILE:HG12	1.98	0.44
1:I:361:LEU:O	1:I:361:LEU:HD23	2.18	0.44
1:J:370:MET:SD	1:J:413:VAL:HG11	2.58	0.44
1:J:431:ALA:HB1	1:J:436:ALA:CB	2.48	0.44
1:J:460:LEU:O	1:J:464:ASN:HB2	2.18	0.44
1:K:496:ARG:CA	1:K:499:ILE:HG22	2.47	0.44
1:L:348:ILE:CG2	1:L:349:SER:N	2.79	0.44
1:L:361:LEU:O	1:L:361:LEU:HD23	2.18	0.44
1:A:468:THR:HG22	1:L:406:MET:HB3	1.96	0.44
1:L:428:PHE:HE1	1:L:439:GLY:CA	2.31	0.44
2:V:97:TYR:CZ	2:V:141:ILE:HD11	2.52	0.44
1:A:343:PHE:CG	1:B:469:GLY:HA3	2.50	0.43
1:A:361:LEU:HD23	1:A:361:LEU:O	2.18	0.43
1:A:430:GLN:HB3	1:A:430:GLN:HE21	1.42	0.43
1:B:361:LEU:HD11	1:B:372:ILE:HG22	1.99	0.43
1:B:406:MET:CB	1:C:468:THR:HG21	2.47	0.43
1:C:389:VAL:CG1	1:C:393:GLN:HB3	2.48	0.43
1:C:431:ALA:HB1	1:C:436:ALA:CB	2.48	0.43
1:D:408:GLN:HG2	1:D:413:VAL:HG11	1.95	0.43
1:E:260:ILE:HD12	1:E:302:ILE:HB	1.99	0.43
1:E:448:LEU:CD1	1:E:506:ILE:CG2	2.94	0.43
1:F:450:TYR:CE2	1:F:514:GLN:CG	2.96	0.43
1:G:347:LYS:HE3	2:S:104:GLY:CA	2.35	0.43
1:G:349:SER:OG	2:S:102:LYS:HG3	2.12	0.43
1:G:370:MET:SD	1:G:413:VAL:HG11	2.58	0.43
1:H:424:LYS:CD	1:H:428:PHE:CE1	3.00	0.43
1:I:379:ASN:ND2	1:I:422:LEU:HD21	2.33	0.43
1:J:255:GLN:CG	1:J:310:LEU:HD23	2.47	0.43
1:K:389:VAL:CG1	1:K:393:GLN:HB3	2.48	0.43
2:S:98:VAL:CG1	2:S:112:GLU:HB3	2.46	0.43
2:V:161:LEU:HD22	2:V:162:LEU:C	2.38	0.43
1:A:406:MET:HB3	1:B:468:THR:HG22	1.96	0.43
1:A:373:VAL:HG23	1:A:412:ILE:HD11	1.95	0.43
1:A:496:ARG:CA	1:A:499:ILE:HG22	2.47	0.43
1:F:373:VAL:HG23	1:F:412:ILE:HD11	1.95	0.43
1:F:424:LYS:CD	1:F:440:ALA:CA	2.93	0.43
1:I:237:ALA:HB2	1:I:325:LEU:HD23	2.00	0.43
1:I:494:ASP:OD2	1:I:498:VAL:HB	2.17	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:349:SER:OG	2:V:102:LYS:HG3	2.12	0.43
1:J:389:VAL:CG1	1:J:393:GLN:HB3	2.48	0.43
1:K:348:ILE:CG2	1:K:349:SER:N	2.79	0.43
1:K:465:ALA:HA	1:K:475:ILE:HG12	1.98	0.43
1:L:389:VAL:CG1	1:L:393:GLN:HB3	2.48	0.43
1:L:515:GLN:HB3	1:L:515:GLN:HE21	1.56	0.43
2:M:161:LEU:HD22	2:M:162:LEU:C	2.38	0.43
2:P:161:LEU:HD22	2:P:162:LEU:C	2.38	0.43
2:Q:158:LYS:HG2	2:Q:159:ALA:N	2.34	0.43
2:S:136:ILE:HG22	2:S:137:THR:H	1.82	0.43
2:T:145:GLU:HG3	2:T:146:LEU:N	2.34	0.43
2:T:161:LEU:HD22	2:T:162:LEU:C	2.38	0.43
1:B:389:VAL:CG1	1:B:393:GLN:HB3	2.48	0.43
1:C:406:MET:HE2	1:C:415:ILE:HD11	2.00	0.43
1:D:428:PHE:HE1	1:D:439:GLY:CA	2.31	0.43
1:F:361:LEU:O	1:F:361:LEU:HD23	2.18	0.43
1:F:428:PHE:HE1	1:F:439:GLY:CA	2.31	0.43
1:G:483:ILE:HG13	1:G:483:ILE:O	2.17	0.43
1:H:257:HIS:HD2	1:I:232:LYS:HB2	1.78	0.43
1:J:237:ALA:HB2	1:J:325:LEU:HD23	2.00	0.43
1:J:240:ILE:HD11	1:J:286:VAL:HG21	1.99	0.43
1:J:428:PHE:HE1	1:J:439:GLY:CA	2.31	0.43
1:J:511:VAL:HB	1:J:512:PRO:CD	2.46	0.43
1:K:256:GLN:OE1	1:L:230:PHE:C	2.56	0.43
2:M:158:LYS:HG2	2:M:159:ALA:N	2.34	0.43
1:F:349:SER:CB	2:R:102:LYS:H	2.28	0.43
2:R:161:LEU:HD22	2:R:162:LEU:C	2.38	0.43
2:S:161:LEU:HD22	2:S:162:LEU:C	2.38	0.43
2:V:158:LYS:HG2	2:V:159:ALA:N	2.34	0.43
1:B:424:LYS:CD	1:B:440:ALA:CA	2.93	0.43
1:C:396:ASP:OD2	1:D:467:THR:CG2	2.41	0.43
1:C:476:SER:HB3	1:C:477:GLY:H	1.61	0.43
1:D:389:VAL:CG1	1:D:393:GLN:HB3	2.48	0.43
1:D:464:ASN:HA	1:D:464:ASN:HD22	1.41	0.43
1:E:382:MET:HE1	1:E:384:LEU:CD1	2.48	0.43
1:H:237:ALA:HB2	1:H:325:LEU:HD23	2.00	0.43
1:H:382:MET:HE1	1:H:384:LEU:CD1	2.47	0.43
1:I:352:PHE:CD1	1:I:360:ILE:CG2	2.95	0.43
1:J:256:GLN:OE1	1:K:230:PHE:C	2.56	0.43
1:K:237:ALA:HB2	1:K:325:LEU:HD23	2.00	0.43
1:K:265:LYS:NZ	1:L:245:LEU:CA	2.35	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:431:ALA:HB1	1:K:436:ALA:CB	2.48	0.43
1:L:379:ASN:ND2	1:L:422:LEU:HD21	2.33	0.43
2:N:158:LYS:HG2	2:N:159:ALA:N	2.34	0.43
2:O:87:LEU:HD12	2:O:95:MET:HE1	2.00	0.43
2:P:158:LYS:HG2	2:P:159:ALA:N	2.34	0.43
2:U:145:GLU:HG3	2:U:146:LEU:N	2.34	0.43
1:A:370:MET:SD	1:A:413:VAL:HG11	2.58	0.43
1:A:389:VAL:CG1	1:A:393:GLN:HB3	2.48	0.43
1:A:464:ASN:HA	1:A:464:ASN:HD22	1.41	0.43
1:A:487:THR:HG21	1:B:459:ILE:HG21	1.94	0.43
1:A:507:ASP:O	1:A:511:VAL:HG23	2.19	0.43
1:B:424:LYS:HG2	1:B:428:PHE:CE2	2.54	0.43
1:B:406:MET:CG	1:C:468:THR:HG21	2.46	0.43
1:D:265:LYS:CE	1:E:245:LEU:HB3	2.26	0.43
1:D:406:MET:HB3	1:E:468:THR:HG22	1.96	0.43
1:F:460:LEU:O	1:F:464:ASN:HB2	2.18	0.43
1:G:361:LEU:HD11	1:G:372:ILE:HG22	1.99	0.43
1:J:424:LYS:CG	1:J:428:PHE:CZ	2.93	0.43
2:O:145:GLU:HG3	2:O:146:LEU:N	2.34	0.43
2:O:158:LYS:HG2	2:O:159:ALA:N	2.34	0.43
2:S:145:GLU:HG3	2:S:146:LEU:N	2.34	0.43
2:S:158:LYS:HG2	2:S:159:ALA:N	2.34	0.43
2:W:158:LYS:HG2	2:W:159:ALA:N	2.34	0.43
1:B:370:MET:SD	1:B:413:VAL:HG11	2.58	0.43
1:B:382:MET:HE1	1:B:384:LEU:CD1	2.49	0.43
1:B:431:ALA:HB1	1:B:436:ALA:CB	2.48	0.43
1:A:406:MET:CG	1:B:468:THR:HG21	2.47	0.43
1:B:507:ASP:O	1:B:511:VAL:HG23	2.19	0.43
1:C:424:LYS:HG2	1:C:428:PHE:CE2	2.54	0.43
1:D:406:MET:CB	1:E:468:THR:HG21	2.47	0.43
1:E:240:ILE:HD11	1:E:286:VAL:HG21	1.99	0.43
1:E:406:MET:HE2	1:E:415:ILE:HD11	2.00	0.43
1:F:370:MET:SD	1:F:413:VAL:HG11	2.58	0.43
1:H:370:MET:SD	1:H:413:VAL:HG11	2.58	0.43
1:I:349:SER:OG	2:U:102:LYS:HG3	2.12	0.43
1:I:389:VAL:CG1	1:I:393:GLN:HB3	2.48	0.43
1:J:448:LEU:CD1	1:J:506:ILE:CG2	2.94	0.43
1:K:370:MET:SD	1:K:413:VAL:HG11	2.58	0.43
1:K:428:PHE:HE1	1:K:439:GLY:CA	2.31	0.43
1:K:460:LEU:O	1:K:464:ASN:HB2	2.18	0.43
1:K:483:ILE:O	1:K:483:ILE:HG13	2.17	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:370:MET:SD	1:L:413:VAL:HG11	2.58	0.43
1:L:373:VAL:HG23	1:L:412:ILE:HD11	1.95	0.43
2:N:161:LEU:HD22	2:N:162:LEU:C	2.38	0.43
2:O:161:LEU:HD22	2:O:162:LEU:C	2.38	0.43
2:R:145:GLU:HG3	2:R:146:LEU:N	2.34	0.43
2:T:158:LYS:HG2	2:T:159:ALA:N	2.34	0.43
2:W:95:MET:HG2	2:W:113:ALA:CB	2.33	0.43
1:A:230:PHE:C	1:L:256:GLN:OE1	2.56	0.43
1:B:428:PHE:CD1	1:B:437:ASP:O	2.72	0.43
1:D:473:THR:CG2	1:D:474:LEU:N	2.82	0.43
1:E:370:MET:SD	1:E:413:VAL:HG11	2.58	0.43
1:F:473:THR:CG2	1:F:474:LEU:N	2.82	0.43
1:H:416:ALA:CB	1:H:417:PRO:HD2	2.38	0.43
1:I:507:ASP:O	1:I:511:VAL:HG23	2.19	0.43
1:J:361:LEU:HD23	1:J:361:LEU:O	2.18	0.43
1:K:428:PHE:CD1	1:K:437:ASP:O	2.72	0.43
1:L:496:ARG:CA	1:L:499:ILE:HG22	2.47	0.43
2:N:145:GLU:HG3	2:N:146:LEU:N	2.34	0.43
2:V:145:GLU:HG3	2:V:146:LEU:N	2.34	0.43
1:A:424:LYS:HG2	1:A:428:PHE:CE2	2.54	0.43
1:A:424:LYS:CG	1:A:428:PHE:CE1	3.02	0.43
1:B:473:THR:CG2	1:B:474:LEU:N	2.82	0.43
1:C:295:ASN:HD21	1:D:270:PRO:HD3	1.27	0.43
1:C:361:LEU:HD23	1:C:361:LEU:O	2.18	0.43
1:D:379:ASN:ND2	1:D:422:LEU:HD21	2.33	0.43
1:D:447:GLN:NE2	1:E:505:LEU:HD13	2.34	0.43
1:F:361:LEU:CG	1:F:372:ILE:CG2	2.97	0.43
1:E:447:GLN:NE2	1:F:505:LEU:HD13	2.34	0.43
1:G:237:ALA:HB2	1:G:325:LEU:HD23	2.00	0.43
1:F:406:MET:CG	1:G:468:THR:HG21	2.46	0.43
1:H:343:PHE:CG	1:I:469:GLY:HA3	2.50	0.43
1:H:483:ILE:O	1:H:483:ILE:HG13	2.17	0.43
1:H:507:ASP:O	1:H:511:VAL:HG23	2.19	0.43
1:I:428:PHE:HE1	1:I:439:GLY:CA	2.31	0.43
1:J:379:ASN:ND2	1:J:422:LEU:HD21	2.33	0.43
1:J:492:VAL:CG1	1:J:499:ILE:CG1	2.94	0.43
1:K:361:LEU:CG	1:K:372:ILE:CG2	2.97	0.43
1:L:237:ALA:HB2	1:L:325:LEU:HD23	2.00	0.43
1:L:431:ALA:HB1	1:L:436:ALA:CB	2.48	0.43
2:O:141:ILE:HG13	2:O:161:LEU:CD1	2.49	0.43
2:Q:136:ILE:HG22	2:Q:137:THR:H	1.82	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:V:98:VAL:CG1	2:V:112:GLU:HB3	2.46	0.43
1:A:404:LEU:HD13	1:A:419:ASP:OD2	2.19	0.43
1:A:460:LEU:O	1:A:464:ASN:HB2	2.18	0.43
1:A:492:VAL:CG1	1:A:499:ILE:CG1	2.94	0.43
1:B:348:ILE:CG2	1:B:349:SER:N	2.79	0.43
1:B:428:PHE:HE1	1:B:439:GLY:CA	2.31	0.43
1:D:515:GLN:HB3	1:D:515:GLN:HE21	1.56	0.43
1:E:424:LYS:CD	1:E:440:ALA:CA	2.93	0.43
1:G:507:ASP:O	1:G:511:VAL:HG23	2.19	0.43
1:H:352:PHE:CD1	1:H:360:ILE:CG2	2.95	0.43
1:H:389:VAL:CG1	1:H:393:GLN:HB3	2.48	0.43
1:I:511:VAL:HB	1:I:512:PRO:CD	2.46	0.43
1:K:349:SER:OG	2:W:102:LYS:HG3	2.12	0.43
1:J:406:MET:CB	1:K:468:THR:HG21	2.47	0.43
2:Q:145:GLU:HG3	2:Q:146:LEU:N	2.34	0.43
2:Q:95:MET:HG2	2:Q:113:ALA:CB	2.33	0.43
2:R:141:ILE:HG13	2:R:161:LEU:CD1	2.49	0.43
2:X:158:LYS:HG2	2:X:159:ALA:N	2.34	0.43
2:X:141:ILE:HG13	2:X:161:LEU:CD1	2.49	0.43
1:A:431:ALA:HB1	1:A:436:ALA:CB	2.48	0.43
1:A:473:THR:CG2	1:A:474:LEU:N	2.82	0.43
1:C:473:THR:CG2	1:C:474:LEU:N	2.82	0.43
1:B:447:GLN:NE2	1:C:505:LEU:HD13	2.34	0.43
1:C:256:GLN:OE1	1:D:230:PHE:C	2.56	0.43
1:D:424:LYS:HG2	1:D:428:PHE:CE2	2.54	0.43
1:C:447:GLN:NE2	1:D:505:LEU:HD13	2.34	0.43
1:E:389:VAL:CG1	1:E:393:GLN:HB3	2.48	0.43
1:E:428:PHE:HE1	1:E:439:GLY:CA	2.31	0.43
1:F:464:ASN:HA	1:F:464:ASN:HD22	1.41	0.43
1:G:450:TYR:CE2	1:G:514:GLN:CG	2.96	0.43
1:G:459:ILE:CD1	1:G:509:LEU:CD1	2.94	0.43
1:H:361:LEU:HD23	1:H:361:LEU:O	2.18	0.43
1:H:428:PHE:HE1	1:H:439:GLY:CA	2.31	0.43
1:H:515:GLN:HE21	1:H:515:GLN:HB3	1.56	0.43
1:I:476:SER:HB3	1:I:477:GLY:H	1.61	0.43
1:J:352:PHE:CD1	1:J:360:ILE:CG2	2.95	0.43
1:J:404:LEU:HD13	1:J:419:ASP:OD2	2.19	0.43
1:J:293:ARG:HH11	1:K:272:THR:HG21	1.64	0.43
1:K:379:ASN:ND2	1:K:422:LEU:HD21	2.33	0.43
1:L:460:LEU:O	1:L:464:ASN:HB2	2.18	0.43
1:L:507:ASP:O	1:L:511:VAL:HG23	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:388:ASP:OD1	2:T:104:GLY:CA	2.67	0.43
2:W:139:ASP:OD1	2:W:163:LEU:HB3	2.19	0.43
1:A:361:LEU:CG	1:A:372:ILE:CG2	2.97	0.42
1:A:388:ASP:OD1	2:M:104:GLY:CA	2.67	0.42
1:A:428:PHE:CD1	1:A:437:ASP:O	2.72	0.42
1:A:428:PHE:HE1	1:A:439:GLY:CA	2.31	0.42
1:A:450:TYR:CB	1:A:513:ALA:HB3	2.49	0.42
1:B:388:ASP:OD1	2:N:104:GLY:CA	2.67	0.42
1:B:257:HIS:HD2	1:C:232:LYS:HB2	1.78	0.42
1:C:460:LEU:O	1:C:464:ASN:HB2	2.18	0.42
1:C:465:ALA:N	1:C:475:ILE:CD1	2.82	0.42
1:D:361:LEU:CG	1:D:372:ILE:CG2	2.97	0.42
1:E:406:MET:HB3	1:F:468:THR:HG22	1.96	0.42
1:E:408:GLN:HG2	1:E:413:VAL:HG11	1.95	0.42
1:E:473:THR:CG2	1:E:474:LEU:N	2.82	0.42
1:G:428:PHE:HE1	1:G:439:GLY:CA	2.31	0.42
1:H:361:LEU:CG	1:H:372:ILE:CG2	2.97	0.42
1:H:450:TYR:CB	1:H:513:ALA:HB3	2.49	0.42
1:I:361:LEU:CG	1:I:372:ILE:CG2	2.97	0.42
1:I:483:ILE:O	1:I:483:ILE:HG13	2.17	0.42
1:K:352:PHE:CD1	1:K:360:ILE:CG2	2.95	0.42
1:K:373:VAL:HG23	1:K:412:ILE:HD11	1.95	0.42
1:L:388:ASP:OD1	2:X:104:GLY:CA	2.67	0.42
1:L:424:LYS:HG2	1:L:428:PHE:CE2	2.54	0.42
1:K:406:MET:CG	1:L:468:THR:HG21	2.46	0.42
2:M:145:GLU:HG3	2:M:146:LEU:N	2.34	0.42
2:P:129:ASN:CG	2:P:147:ILE:HG22	2.40	0.42
1:F:388:ASP:OD1	2:R:104:GLY:CA	2.67	0.42
2:S:129:ASN:CG	2:S:147:ILE:HG22	2.40	0.42
2:T:129:ASN:CG	2:T:147:ILE:HG22	2.40	0.42
2:T:91:SER:C	2:T:128:GLN:HB3	2.40	0.42
2:U:139:ASP:OD1	2:U:163:LEU:HB3	2.19	0.42
2:U:91:SER:C	2:U:128:GLN:HB3	2.40	0.42
2:W:145:GLU:HG3	2:W:146:LEU:N	2.34	0.42
1:B:465:ALA:N	1:B:475:ILE:CD1	2.82	0.42
1:C:237:ALA:HB2	1:C:325:LEU:HD23	2.00	0.42
1:C:352:PHE:CD1	1:C:360:ILE:CG2	2.95	0.42
1:C:406:MET:HB3	1:D:468:THR:HG22	1.96	0.42
1:H:473:THR:CG2	1:H:474:LEU:N	2.82	0.42
1:I:448:LEU:CD1	1:I:506:ILE:CG2	2.94	0.42
1:J:428:PHE:CD1	1:J:437:ASP:O	2.72	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:428:PHE:CD1	1:L:437:ASP:O	2.72	0.42
2:M:139:ASP:OD1	2:M:163:LEU:HB3	2.19	0.42
2:N:110:PHE:C	2:N:111:ILE:HD12	2.40	0.42
2:N:139:ASP:OD1	2:N:163:LEU:HB3	2.19	0.42
2:O:139:ASP:OD1	2:O:163:LEU:HB3	2.19	0.42
1:E:388:ASP:OD1	2:Q:104:GLY:CA	2.67	0.42
2:Q:98:VAL:CG1	2:Q:112:GLU:HB3	2.46	0.42
2:Q:129:ASN:CG	2:Q:147:ILE:HG22	2.40	0.42
2:R:129:ASN:CG	2:R:147:ILE:HG22	2.40	0.42
2:U:161:LEU:HD22	2:U:162:LEU:C	2.38	0.42
2:X:91:SER:C	2:X:128:GLN:HB3	2.40	0.42
2:X:139:ASP:OD1	2:X:163:LEU:HB3	2.19	0.42
1:B:396:ASP:OD2	1:C:467:THR:CG2	2.41	0.42
1:C:428:PHE:CD1	1:C:437:ASP:O	2.72	0.42
1:D:237:ALA:HB2	1:D:325:LEU:HD23	2.00	0.42
1:D:465:ALA:N	1:D:475:ILE:CD1	2.82	0.42
1:D:492:VAL:CG1	1:D:499:ILE:CG1	2.94	0.42
1:D:450:TYR:CB	1:D:513:ALA:HB3	2.49	0.42
1:E:460:LEU:O	1:E:464:ASN:HB2	2.18	0.42
1:F:237:ALA:HB2	1:F:325:LEU:HD23	2.00	0.42
1:F:507:ASP:O	1:F:511:VAL:HG23	2.19	0.42
1:G:389:VAL:CG1	1:G:393:GLN:HB3	2.48	0.42
1:I:404:LEU:HD13	1:I:419:ASP:OD2	2.19	0.42
1:J:507:ASP:O	1:J:511:VAL:HG23	2.19	0.42
1:K:404:LEU:HD13	1:K:419:ASP:OD2	2.19	0.42
1:A:270:PRO:HD3	1:L:295:ASN:HD21	1.27	0.42
1:L:404:LEU:HD13	1:L:419:ASP:OD2	2.19	0.42
2:M:111:ILE:CD1	2:M:111:ILE:N	2.82	0.42
2:M:141:ILE:HG13	2:M:161:LEU:CD1	2.49	0.42
1:C:388:ASP:OD1	2:O:104:GLY:CA	2.67	0.42
2:P:111:ILE:N	2:P:111:ILE:CD1	2.82	0.42
2:P:139:ASP:OD1	2:P:163:LEU:HB3	2.19	0.42
2:P:145:GLU:HG3	2:P:146:LEU:N	2.34	0.42
2:R:158:LYS:HG2	2:R:159:ALA:N	2.34	0.42
2:T:110:PHE:C	2:T:111:ILE:HD12	2.40	0.42
1:I:388:ASP:OD1	2:U:104:GLY:CA	2.67	0.42
2:U:110:PHE:C	2:U:111:ILE:HD12	2.40	0.42
2:U:129:ASN:CG	2:U:147:ILE:HG22	2.40	0.42
2:V:110:PHE:C	2:V:111:ILE:HD12	2.40	0.42
2:V:141:ILE:HG13	2:V:161:LEU:CD1	2.49	0.42
1:A:361:LEU:CD2	1:A:372:ILE:CB	2.95	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:256:GLN:OE1	1:B:230:PHE:C	2.56	0.42
1:B:256:GLN:OE1	1:C:230:PHE:C	2.56	0.42
1:B:421:LEU:HA	1:B:421:LEU:HD23	1.80	0.42
1:C:424:LYS:CG	1:C:428:PHE:CZ	2.93	0.42
1:C:424:LYS:CE	1:C:441:LEU:HD12	2.16	0.42
1:C:450:TYR:CB	1:C:513:ALA:HB3	2.49	0.42
1:C:507:ASP:O	1:C:511:VAL:HG23	2.19	0.42
1:E:404:LEU:HD13	1:E:419:ASP:OD2	2.19	0.42
1:E:450:TYR:CE1	1:E:514:GLN:HA	2.55	0.42
1:F:349:SER:OG	2:R:102:LYS:HG3	2.12	0.42
1:G:388:ASP:OD1	2:S:104:GLY:CA	2.67	0.42
1:G:406:MET:CB	1:H:468:THR:HG21	2.47	0.42
1:H:511:VAL:HB	1:H:512:PRO:CD	2.46	0.42
1:I:355:VAL:CA	1:I:381:LYS:HG3	2.50	0.42
1:J:450:TYR:CE1	1:J:514:GLN:HA	2.55	0.42
1:K:424:LYS:CG	1:K:428:PHE:CZ	2.93	0.42
1:L:355:VAL:CA	1:L:381:LYS:HG3	2.50	0.42
2:P:91:SER:C	2:P:128:GLN:HB3	2.40	0.42
2:P:141:ILE:HG13	2:P:161:LEU:CD1	2.49	0.42
2:Q:141:ILE:HG13	2:Q:161:LEU:CD1	2.49	0.42
2:T:141:ILE:HG13	2:T:161:LEU:CD1	2.49	0.42
2:V:139:ASP:OD1	2:V:163:LEU:HB3	2.19	0.42
1:A:237:ALA:HB2	1:A:325:LEU:HD23	2.00	0.42
1:A:465:ALA:N	1:A:475:ILE:CD1	2.82	0.42
1:B:424:LYS:CG	1:B:428:PHE:CE1	3.02	0.42
1:D:428:PHE:HE1	1:D:439:GLY:N	2.18	0.42
1:E:507:ASP:O	1:E:511:VAL:HG23	2.19	0.42
1:G:450:TYR:CB	1:G:513:ALA:HB3	2.49	0.42
1:H:421:LEU:HA	1:H:421:LEU:HD23	1.80	0.42
1:H:482:LEU:N	1:H:482:LEU:CD1	2.82	0.42
1:I:424:LYS:CD	1:I:440:ALA:CA	2.93	0.42
1:J:483:ILE:O	1:J:483:ILE:HG13	2.17	0.42
1:J:450:TYR:CB	1:J:513:ALA:HB3	2.49	0.42
1:K:473:THR:CG2	1:K:474:LEU:N	2.82	0.42
1:K:482:LEU:N	1:K:482:LEU:CD1	2.82	0.42
2:M:84:LYS:HD3	2:M:88:GLU:OE2	2.20	0.42
2:M:91:SER:C	2:M:128:GLN:HB3	2.40	0.42
2:P:84:LYS:HD3	2:P:88:GLU:OE2	2.20	0.42
2:S:110:PHE:C	2:S:111:ILE:HD12	2.40	0.42
2:T:136:ILE:HG22	2:T:137:THR:H	1.82	0.42
1:K:388:ASP:OD1	2:W:104:GLY:CA	2.67	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:W:110:PHE:C	2:W:111:ILE:HD12	2.40	0.42
1:B:430:GLN:HB3	1:B:430:GLN:HE21	1.42	0.42
1:C:428:PHE:HE1	1:C:439:GLY:N	2.18	0.42
1:C:516:VAL:CG2	1:C:517:MET:N	2.74	0.42
1:D:384:LEU:HD23	1:D:384:LEU:HA	1.91	0.42
1:E:406:MET:HB3	1:F:468:THR:HG21	1.95	0.42
1:E:459:ILE:CD1	1:E:509:LEU:CD1	2.94	0.42
1:F:389:VAL:CG1	1:F:393:GLN:HB3	2.48	0.42
1:F:428:PHE:CD1	1:F:437:ASP:O	2.72	0.42
1:G:473:THR:CG2	1:G:474:LEU:N	2.82	0.42
1:G:482:LEU:CD1	1:G:482:LEU:N	2.82	0.42
1:K:428:PHE:HE1	1:K:439:GLY:N	2.18	0.42
1:K:424:LYS:CD	1:K:440:ALA:CA	2.93	0.42
1:K:450:TYR:CB	1:K:513:ALA:HB3	2.49	0.42
2:N:129:ASN:CG	2:N:147:ILE:HG22	2.40	0.42
2:N:141:ILE:O	2:N:160:GLU:HA	2.20	0.42
2:N:141:ILE:HG13	2:N:161:LEU:CD1	2.49	0.42
2:R:139:ASP:OD1	2:R:163:LEU:HB3	2.19	0.42
2:U:158:LYS:HG2	2:U:159:ALA:N	2.34	0.42
2:W:120:VAL:HG11	2:W:126:LEU:HB3	2.02	0.42
2:W:129:ASN:CG	2:W:147:ILE:HG22	2.40	0.42
1:A:406:MET:CB	1:B:468:THR:HG21	2.47	0.42
1:B:404:LEU:HD13	1:B:419:ASP:OD2	2.19	0.42
1:B:428:PHE:HE1	1:B:439:GLY:N	2.18	0.42
1:B:424:LYS:CD	1:B:440:ALA:N	2.83	0.42
1:C:361:LEU:CG	1:C:372:ILE:CG2	2.97	0.42
1:D:388:ASP:OD1	2:P:104:GLY:CA	2.67	0.42
1:D:404:LEU:HD13	1:D:419:ASP:OD2	2.19	0.42
1:E:237:ALA:HB2	1:E:325:LEU:HD23	2.00	0.42
1:E:361:LEU:CD2	1:E:372:ILE:HG22	2.49	0.42
1:E:465:ALA:N	1:E:475:ILE:CD1	2.82	0.42
1:F:459:ILE:CD1	1:F:509:LEU:CD1	2.94	0.42
1:G:361:LEU:CG	1:G:372:ILE:CG2	2.97	0.42
1:G:428:PHE:CD1	1:G:437:ASP:O	2.72	0.42
1:G:511:VAL:HB	1:G:512:PRO:CD	2.46	0.42
1:G:450:TYR:CE1	1:G:514:GLN:HA	2.55	0.42
1:G:257:HIS:HD2	1:H:232:LYS:HB2	1.78	0.42
1:J:428:PHE:HE1	1:J:439:GLY:N	2.18	0.42
1:J:424:LYS:CD	1:J:440:ALA:N	2.83	0.42
1:L:473:THR:CG2	1:L:474:LEU:N	2.82	0.42
2:N:87:LEU:HD12	2:N:95:MET:HE1	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O:111:ILE:CD1	2:O:111:ILE:N	2.82	0.42
2:O:84:LYS:HD3	2:O:88:GLU:OE2	2.20	0.42
2:P:95:MET:HG2	2:P:113:ALA:CB	2.33	0.42
2:V:129:ASN:CG	2:V:147:ILE:HG22	2.40	0.42
2:W:141:ILE:HG13	2:W:161:LEU:CD1	2.49	0.42
2:X:120:VAL:HG11	2:X:126:LEU:HB3	2.02	0.42
2:X:145:GLU:HG3	2:X:146:LEU:N	2.34	0.42
1:B:237:ALA:HB2	1:B:325:LEU:HD23	2.00	0.42
1:B:361:LEU:CG	1:B:372:ILE:CG2	2.97	0.42
1:B:450:TYR:CB	1:B:513:ALA:HB3	2.49	0.42
1:D:361:LEU:CD2	1:D:372:ILE:HG22	2.49	0.42
1:D:507:ASP:O	1:D:511:VAL:HG23	2.19	0.42
1:E:428:PHE:CD1	1:E:437:ASP:O	2.72	0.42
1:E:450:TYR:CB	1:E:513:ALA:HB3	2.49	0.42
1:E:256:GLN:OE1	1:F:230:PHE:C	2.56	0.42
1:F:482:LEU:CD1	1:F:482:LEU:N	2.82	0.42
1:G:256:GLN:OE1	1:H:230:PHE:C	2.56	0.42
1:H:428:PHE:CD1	1:H:437:ASP:O	2.72	0.42
1:H:256:GLN:OE1	1:I:230:PHE:C	2.56	0.42
1:J:361:LEU:CG	1:J:372:ILE:CG2	2.97	0.42
1:J:355:VAL:CA	1:J:381:LYS:HG3	2.50	0.42
1:K:355:VAL:CA	1:K:381:LYS:HG3	2.50	0.42
1:K:448:LEU:CD1	1:K:506:ILE:CG2	2.94	0.42
1:L:424:LYS:CD	1:L:440:ALA:N	2.83	0.42
1:L:428:PHE:HE1	1:L:439:GLY:N	2.18	0.42
1:L:446:PHE:CE1	1:L:492:VAL:HG12	2.55	0.42
2:M:129:ASN:CG	2:M:147:ILE:HG22	2.40	0.42
2:O:110:PHE:C	2:O:111:ILE:HD12	2.40	0.42
2:R:110:PHE:C	2:R:111:ILE:HD12	2.40	0.42
2:R:141:ILE:O	2:R:160:GLU:HG3	2.20	0.42
2:S:139:ASP:OD1	2:S:163:LEU:HB3	2.19	0.42
2:V:91:SER:C	2:V:128:GLN:HB3	2.40	0.42
2:W:91:SER:C	2:W:128:GLN:HB3	2.40	0.42
2:X:141:ILE:O	2:X:160:GLU:HA	2.20	0.42
1:A:450:TYR:CE2	1:A:514:GLN:CG	2.96	0.42
1:C:384:LEU:HA	1:C:384:LEU:HD23	1.91	0.42
1:F:361:LEU:CD2	1:F:372:ILE:HG22	2.49	0.42
1:F:450:TYR:CB	1:F:513:ALA:HB3	2.49	0.42
1:F:256:GLN:OE1	1:G:230:PHE:C	2.56	0.42
1:G:404:LEU:HD13	1:G:419:ASP:OD2	2.19	0.42
1:H:406:MET:HE2	1:H:415:ILE:HD11	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:473:THR:CG2	1:I:474:LEU:N	2.82	0.42
1:J:446:PHE:CE1	1:J:492:VAL:HG12	2.55	0.42
1:K:507:ASP:O	1:K:511:VAL:HG23	2.19	0.42
2:M:120:VAL:HG11	2:M:126:LEU:HB3	2.02	0.42
2:Q:141:ILE:O	2:Q:160:GLU:HA	2.20	0.42
2:Q:84:LYS:HD3	2:Q:88:GLU:OE2	2.20	0.42
2:V:120:VAL:HG11	2:V:126:LEU:HB3	2.02	0.42
2:W:141:ILE:O	2:W:160:GLU:HG3	2.20	0.42
2:X:110:PHE:C	2:X:111:ILE:HD12	2.40	0.42
1:A:428:PHE:HE1	1:A:439:GLY:N	2.18	0.42
1:A:512:PRO:HA	1:A:515:GLN:CD	2.41	0.42
1:B:464:ASN:HA	1:B:464:ASN:HD22	1.41	0.42
1:C:404:LEU:HD13	1:C:419:ASP:OD2	2.19	0.42
1:C:428:PHE:HE1	1:C:439:GLY:CA	2.31	0.42
1:D:430:GLN:HB3	1:D:430:GLN:HE21	1.42	0.42
1:E:361:LEU:CG	1:E:372:ILE:CG2	2.97	0.42
1:F:512:PRO:HA	1:F:515:GLN:HE22	1.85	0.42
1:G:446:PHE:CE1	1:G:492:VAL:HG12	2.55	0.42
1:H:424:LYS:HG2	1:H:428:PHE:CE2	2.54	0.42
1:H:459:ILE:CD1	1:H:509:LEU:CD1	2.94	0.42
1:H:512:PRO:HA	1:H:515:GLN:CD	2.41	0.42
1:I:424:LYS:HG2	1:I:428:PHE:CE2	2.54	0.42
1:I:428:PHE:CD1	1:I:437:ASP:O	2.72	0.42
1:J:373:VAL:HG23	1:J:412:ILE:HD11	1.95	0.42
1:K:424:LYS:HG2	1:K:428:PHE:CE2	2.54	0.42
1:L:465:ALA:N	1:L:475:ILE:CD1	2.82	0.42
1:L:448:LEU:CD1	1:L:506:ILE:CG2	2.94	0.42
1:L:516:VAL:CG2	1:L:517:MET:N	2.74	0.42
2:O:129:ASN:CG	2:O:147:ILE:HG22	2.40	0.42
2:O:91:SER:C	2:O:128:GLN:HB3	2.40	0.42
2:R:126:LEU:N	2:R:126:LEU:CD1	2.83	0.42
2:S:91:SER:C	2:S:128:GLN:HB3	2.40	0.42
2:T:111:ILE:CD1	2:T:111:ILE:N	2.82	0.42
2:T:139:ASP:OD1	2:T:163:LEU:HB3	2.19	0.42
1:A:450:TYR:CE1	1:A:514:GLN:HA	2.55	0.41
1:D:256:GLN:NE2	1:E:231:ARG:CD	2.48	0.41
1:D:424:LYS:CD	1:D:440:ALA:N	2.83	0.41
1:D:448:LEU:CD1	1:D:506:ILE:CG2	2.94	0.41
1:E:384:LEU:HD23	1:E:384:LEU:HA	1.91	0.41
1:E:424:LYS:CD	1:E:440:ALA:N	2.83	0.41
1:F:511:VAL:HB	1:F:512:PRO:CD	2.46	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:446:PHE:CE1	1:I:492:VAL:HG12	2.55	0.41
1:I:459:ILE:CD1	1:I:509:LEU:CD1	2.94	0.41
1:I:256:GLN:OE1	1:J:230:PHE:C	2.56	0.41
1:J:388:ASP:OD1	2:V:104:GLY:CA	2.67	0.41
1:L:361:LEU:CG	1:L:372:ILE:CG2	2.97	0.41
1:B:347:LYS:CE	2:N:104:GLY:N	2.67	0.41
2:P:141:ILE:O	2:P:160:GLU:HA	2.20	0.41
2:R:91:SER:C	2:R:128:GLN:HB3	2.40	0.41
2:U:141:ILE:HG13	2:U:161:LEU:CD1	2.49	0.41
2:X:141:ILE:O	2:X:160:GLU:HG3	2.20	0.41
2:X:84:LYS:HD3	2:X:88:GLU:OE2	2.20	0.41
1:A:446:PHE:CE1	1:A:492:VAL:HG12	2.55	0.41
1:B:361:LEU:CD2	1:B:372:ILE:CB	2.95	0.41
1:B:446:PHE:CE1	1:B:492:VAL:HG12	2.55	0.41
1:D:239:ILE:N	1:D:239:ILE:HD12	2.36	0.41
1:F:352:PHE:HB3	1:F:355:VAL:HG11	2.02	0.41
1:I:239:ILE:HD12	1:I:239:ILE:N	2.36	0.41
1:J:239:ILE:N	1:J:239:ILE:HD12	2.36	0.41
1:J:421:LEU:HD23	1:J:421:LEU:HA	1.80	0.41
1:J:473:THR:CG2	1:J:474:LEU:N	2.82	0.41
1:K:512:PRO:HA	1:K:515:GLN:CD	2.41	0.41
2:M:141:ILE:O	2:M:160:GLU:HG3	2.20	0.41
2:N:84:LYS:HD3	2:N:88:GLU:OE2	2.20	0.41
2:O:98:VAL:CG1	2:O:112:GLU:HB3	2.46	0.41
2:S:141:ILE:HG13	2:S:161:LEU:CD1	2.49	0.41
2:S:84:LYS:HD3	2:S:88:GLU:OE2	2.20	0.41
2:U:126:LEU:O	2:U:131:GLY:HA3	2.20	0.41
2:V:141:ILE:O	2:V:160:GLU:HA	2.20	0.41
1:C:430:GLN:HE21	1:C:430:GLN:HB3	1.42	0.41
1:C:446:PHE:CE1	1:C:492:VAL:HG12	2.55	0.41
1:B:445:ASN:HD22	1:C:501:LYS:HE3	1.85	0.41
1:D:378:VAL:HG23	1:D:379:ASN:N	2.36	0.41
1:D:428:PHE:CD1	1:D:437:ASP:O	2.72	0.41
1:D:450:TYR:CE1	1:D:514:GLN:HA	2.55	0.41
1:E:482:LEU:CD1	1:E:482:LEU:N	2.82	0.41
1:F:343:PHE:CG	1:G:469:GLY:HA3	2.50	0.41
1:F:404:LEU:HD13	1:F:419:ASP:OD2	2.19	0.41
1:F:465:ALA:N	1:F:475:ILE:CD1	2.82	0.41
1:H:404:LEU:HD13	1:H:419:ASP:OD2	2.19	0.41
1:H:424:LYS:CD	1:H:440:ALA:N	2.83	0.41
1:H:446:PHE:CE1	1:H:492:VAL:HG12	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:428:PHE:HE1	1:I:439:GLY:N	2.18	0.41
1:I:450:TYR:CB	1:I:513:ALA:HB3	2.49	0.41
1:K:239:ILE:HD12	1:K:239:ILE:N	2.35	0.41
1:K:424:LYS:CD	1:K:440:ALA:N	2.83	0.41
1:L:483:ILE:HG13	1:L:491:ILE:HB	1.93	0.41
2:M:126:LEU:O	2:M:131:GLY:HA3	2.20	0.41
2:O:141:ILE:O	2:O:160:GLU:HG3	2.20	0.41
2:Q:126:LEU:N	2:Q:126:LEU:CD1	2.83	0.41
2:R:126:LEU:O	2:R:131:GLY:HA3	2.20	0.41
2:T:141:ILE:O	2:T:160:GLU:HG3	2.20	0.41
2:U:84:LYS:HD3	2:U:88:GLU:OE2	2.20	0.41
2:V:84:LYS:HD3	2:V:88:GLU:OE2	2.20	0.41
2:W:111:ILE:CD1	2:W:111:ILE:N	2.82	0.41
1:B:239:ILE:HD12	1:B:239:ILE:N	2.35	0.41
1:B:476:SER:HB3	1:B:477:GLY:H	1.61	0.41
1:A:445:ASN:HD22	1:B:501:LYS:HE3	1.85	0.41
1:C:361:LEU:CD2	1:C:372:ILE:HG22	2.49	0.41
1:C:424:LYS:CG	1:C:428:PHE:CE1	3.02	0.41
1:E:511:VAL:HB	1:E:512:PRO:CD	2.46	0.41
1:F:239:ILE:HD12	1:F:239:ILE:N	2.36	0.41
1:F:424:LYS:CD	1:F:440:ALA:N	2.83	0.41
1:G:361:LEU:CD2	1:G:372:ILE:HG22	2.49	0.41
1:G:424:LYS:HG2	1:G:428:PHE:CE2	2.54	0.41
1:G:424:LYS:CD	1:G:440:ALA:N	2.83	0.41
1:H:239:ILE:N	1:H:239:ILE:HD12	2.35	0.41
1:H:384:LEU:HD23	1:H:384:LEU:HA	1.91	0.41
1:K:442:TYR:CD2	1:K:443:SER:O	2.74	0.41
1:K:483:ILE:HG13	1:K:491:ILE:HB	1.93	0.41
1:L:352:PHE:CD1	1:L:360:ILE:CG2	2.95	0.41
1:L:450:TYR:CB	1:L:513:ALA:HB3	2.49	0.41
2:N:98:VAL:CG1	2:N:112:GLU:HB3	2.46	0.41
2:N:133:ILE:HD12	2:N:143:LEU:CB	2.51	0.41
2:N:141:ILE:O	2:N:160:GLU:HG3	2.20	0.41
2:O:126:LEU:O	2:O:131:GLY:HA3	2.20	0.41
2:O:133:ILE:HD12	2:O:143:LEU:CB	2.51	0.41
2:O:141:ILE:O	2:O:160:GLU:HA	2.20	0.41
2:P:133:ILE:HD12	2:P:143:LEU:CB	2.51	0.41
2:Q:110:PHE:C	2:Q:111:ILE:HD12	2.40	0.41
2:Q:91:SER:C	2:Q:128:GLN:HB3	2.40	0.41
2:Q:97:TYR:CE1	2:Q:99:GLY:O	2.74	0.41
2:R:111:ILE:N	2:R:111:ILE:CD1	2.82	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:R:97:TYR:CE1	2:R:99:GLY:O	2.74	0.41
2:S:141:ILE:O	2:S:160:GLU:HG3	2.20	0.41
2:T:141:ILE:O	2:T:160:GLU:HA	2.20	0.41
2:U:120:VAL:HG11	2:U:126:LEU:HB3	2.02	0.41
2:V:97:TYR:CE1	2:V:99:GLY:O	2.74	0.41
2:W:97:TYR:CE1	2:W:99:GLY:O	2.74	0.41
2:X:131:GLY:HA2	2:X:145:GLU:CB	2.51	0.41
1:A:239:ILE:HD12	1:A:239:ILE:N	2.36	0.41
1:B:512:PRO:HA	1:B:515:GLN:CD	2.41	0.41
1:C:464:ASN:HD22	1:C:464:ASN:HA	1.41	0.41
1:E:446:PHE:CE1	1:E:492:VAL:HG12	2.55	0.41
1:F:442:TYR:CD2	1:F:443:SER:O	2.74	0.41
1:G:347:LYS:HD2	1:G:388:ASP:HA	2.03	0.41
1:G:398:VAL:HG12	1:G:403:ASN:ND2	2.36	0.41
1:G:512:PRO:HA	1:G:515:GLN:CD	2.41	0.41
1:H:347:LYS:HD2	1:H:388:ASP:HA	2.03	0.41
1:H:424:LYS:CG	1:H:428:PHE:CE1	3.02	0.41
1:I:424:LYS:CD	1:I:440:ALA:N	2.83	0.41
1:J:265:LYS:CE	1:K:245:LEU:HB3	2.26	0.41
1:J:398:VAL:HG12	1:J:403:ASN:ND2	2.36	0.41
1:J:481:VAL:CG1	1:J:493:THR:HB	2.51	0.41
1:K:406:MET:HB3	1:L:468:THR:HG22	1.96	0.41
1:K:465:ALA:N	1:K:475:ILE:CD1	2.82	0.41
1:K:481:VAL:CG1	1:K:493:THR:HB	2.51	0.41
1:L:239:ILE:HD12	1:L:239:ILE:N	2.36	0.41
1:L:442:TYR:CD2	1:L:443:SER:O	2.74	0.41
2:M:110:PHE:C	2:M:111:ILE:HD12	2.40	0.41
2:N:120:VAL:HG11	2:N:126:LEU:HB3	2.02	0.41
2:P:120:VAL:HG11	2:P:126:LEU:HB3	2.02	0.41
2:P:141:ILE:O	2:P:160:GLU:HG3	2.20	0.41
2:P:97:TYR:CE1	2:P:99:GLY:O	2.74	0.41
2:Q:133:ILE:HD12	2:Q:143:LEU:CB	2.51	0.41
2:R:141:ILE:O	2:R:160:GLU:HA	2.20	0.41
2:S:97:TYR:CE1	2:S:99:GLY:O	2.74	0.41
2:U:141:ILE:O	2:U:160:GLU:HG3	2.20	0.41
2:U:97:TYR:CE1	2:U:99:GLY:O	2.74	0.41
2:X:111:ILE:N	2:X:111:ILE:CD1	2.82	0.41
2:X:129:ASN:CG	2:X:147:ILE:HG22	2.40	0.41
1:A:424:LYS:CD	1:A:440:ALA:N	2.83	0.41
1:A:433:LYS:HG2	1:A:435:ILE:H	1.86	0.41
1:C:424:LYS:CD	1:C:440:ALA:N	2.83	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:512:PRO:HA	1:C:515:GLN:CD	2.41	0.41
1:D:382:MET:HE3	1:D:382:MET:HB2	1.91	0.41
1:D:433:LYS:HG2	1:D:435:ILE:H	1.86	0.41
1:D:446:PHE:CE1	1:D:492:VAL:HG12	2.55	0.41
1:C:445:ASN:HD22	1:D:501:LYS:HE3	1.85	0.41
1:D:256:GLN:OE1	1:E:230:PHE:C	2.56	0.41
1:E:355:VAL:CA	1:E:381:LYS:HG3	2.50	0.41
1:D:406:MET:CG	1:E:468:THR:HG21	2.47	0.41
1:G:448:LEU:CD1	1:G:506:ILE:CG2	2.94	0.41
1:H:352:PHE:HB3	1:H:355:VAL:HG11	2.02	0.41
1:J:465:ALA:N	1:J:475:ILE:CD1	2.82	0.41
1:I:406:MET:CB	1:J:468:THR:HG21	2.47	0.41
1:K:343:PHE:CG	1:L:469:GLY:HA3	2.50	0.41
1:A:468:THR:HG21	1:L:406:MET:CB	2.47	0.41
1:A:501:LYS:HE3	1:L:445:ASN:HD22	1.85	0.41
2:M:133:ILE:HD12	2:M:143:LEU:CB	2.51	0.41
2:N:91:SER:C	2:N:128:GLN:HB3	2.40	0.41
1:C:347:LYS:CE	2:O:104:GLY:N	2.67	0.41
2:O:120:VAL:HG11	2:O:126:LEU:HB3	2.02	0.41
2:Q:139:ASP:OD1	2:Q:163:LEU:HB3	2.19	0.41
2:S:141:ILE:O	2:S:160:GLU:HA	2.20	0.41
2:V:141:ILE:O	2:V:160:GLU:HG3	2.20	0.41
2:X:95:MET:HG2	2:X:113:ALA:CB	2.33	0.41
2:X:97:TYR:CE1	2:X:99:GLY:O	2.74	0.41
1:B:433:LYS:HG2	1:B:435:ILE:H	1.86	0.41
1:C:433:LYS:HG2	1:C:435:ILE:H	1.86	0.41
1:D:295:ASN:HD21	1:E:270:PRO:HD3	1.27	0.41
1:D:424:LYS:CD	1:D:440:ALA:CA	2.93	0.41
1:E:396:ASP:OD2	1:F:467:THR:CG2	2.41	0.41
1:E:433:LYS:HG2	1:E:435:ILE:H	1.86	0.41
1:E:442:TYR:CD2	1:E:443:SER:O	2.74	0.41
1:F:446:PHE:CE1	1:F:492:VAL:HG12	2.55	0.41
1:F:512:PRO:HA	1:F:515:GLN:CD	2.41	0.41
1:G:239:ILE:N	1:G:239:ILE:HD12	2.36	0.41
1:G:352:PHE:CD1	1:G:360:ILE:CG2	2.95	0.41
1:J:442:TYR:CD2	1:J:443:SER:O	2.74	0.41
1:I:406:MET:CG	1:J:468:THR:HG21	2.46	0.41
1:K:398:VAL:HG12	1:K:403:ASN:ND2	2.36	0.41
1:K:446:PHE:CE1	1:K:492:VAL:HG12	2.55	0.41
1:L:349:SER:OG	2:X:102:LYS:HG3	2.12	0.41
2:P:126:LEU:CD1	2:P:126:LEU:N	2.83	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Q:111:ILE:CD1	2:Q:111:ILE:N	2.82	0.41
2:Q:141:ILE:O	2:Q:160:GLU:HG3	2.20	0.41
2:X:133:ILE:HD12	2:X:143:LEU:CB	2.51	0.41
1:A:442:TYR:CD2	1:A:443:SER:O	2.74	0.41
1:B:257:HIS:NE2	1:C:232:LYS:C	2.74	0.41
1:B:384:LEU:HA	1:B:384:LEU:HD23	1.91	0.41
1:C:256:GLN:NE2	1:D:231:ARG:CD	2.48	0.41
1:D:355:VAL:CA	1:D:381:LYS:HG3	2.50	0.41
1:E:378:VAL:HG23	1:E:379:ASN:N	2.36	0.41
1:G:261:ILE:N	1:G:261:ILE:HD12	2.36	0.41
1:G:442:TYR:CD2	1:G:443:SER:O	2.74	0.41
1:H:357:ILE:HG23	1:H:403:ASN:ND2	2.36	0.41
1:H:378:VAL:HG23	1:H:379:ASN:N	2.36	0.41
1:H:433:LYS:HG2	1:H:435:ILE:H	1.86	0.41
1:I:481:VAL:CG1	1:I:493:THR:HB	2.51	0.41
1:J:358:ARG:O	1:J:361:LEU:HB3	2.21	0.41
1:J:482:LEU:CD1	1:J:482:LEU:N	2.82	0.41
1:K:358:ARG:O	1:K:362:GLN:HG3	2.21	0.41
1:K:433:LYS:HG2	1:K:435:ILE:H	1.86	0.41
1:K:492:VAL:CG1	1:K:499:ILE:CG1	2.94	0.41
1:L:358:ARG:O	1:L:362:GLN:HG3	2.21	0.41
1:L:398:VAL:HG12	1:L:403:ASN:ND2	2.36	0.41
1:L:433:LYS:HG2	1:L:435:ILE:H	1.86	0.41
2:M:137:THR:O	2:M:140:SER:O	2.39	0.41
2:M:97:TYR:CE1	2:M:99:GLY:O	2.74	0.41
2:O:97:TYR:CE1	2:O:99:GLY:O	2.74	0.41
2:P:110:PHE:C	2:P:111:ILE:HD12	2.40	0.41
2:Q:120:VAL:HG11	2:Q:126:LEU:HB3	2.02	0.41
2:T:98:VAL:CG1	2:T:112:GLU:HB3	2.46	0.41
2:T:137:THR:O	2:T:140:SER:O	2.39	0.41
2:T:84:LYS:HD3	2:T:88:GLU:OE2	2.20	0.41
2:V:137:THR:O	2:V:140:SER:O	2.39	0.41
2:W:84:LYS:HD3	2:W:88:GLU:OE2	2.20	0.41
1:A:378:VAL:HG23	1:A:379:ASN:N	2.36	0.41
1:A:355:VAL:CA	1:A:381:LYS:HG3	2.50	0.41
1:A:404:LEU:CD2	1:A:404:LEU:H	2.26	0.41
1:B:404:LEU:CD2	1:B:404:LEU:H	2.26	0.41
1:C:358:ARG:O	1:C:361:LEU:HB3	2.21	0.41
1:C:378:VAL:HG23	1:C:379:ASN:N	2.36	0.41
1:C:421:LEU:HA	1:C:421:LEU:HD23	1.80	0.41
1:D:442:TYR:CD2	1:D:443:SER:O	2.74	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:512:PRO:HA	1:D:515:GLN:CD	2.41	0.41
1:E:357:ILE:HG23	1:E:403:ASN:ND2	2.36	0.41
1:E:499:ILE:HG23	1:E:500:GLU:N	2.36	0.41
1:F:347:LYS:HD2	1:F:388:ASP:HA	2.03	0.41
1:F:424:LYS:HG2	1:F:428:PHE:CE2	2.54	0.41
1:G:378:VAL:HG23	1:G:379:ASN:N	2.36	0.41
1:I:347:LYS:HD2	1:I:388:ASP:HA	2.03	0.41
1:I:398:VAL:HG12	1:I:403:ASN:ND2	2.36	0.41
1:J:261:ILE:N	1:J:261:ILE:HD12	2.36	0.41
1:J:476:SER:HB3	1:J:477:GLY:H	1.61	0.41
1:A:245:LEU:CD2	1:L:265:LYS:CE	1.99	0.41
1:A:245:LEU:CA	1:L:265:LYS:NZ	2.35	0.41
1:L:378:VAL:HG23	1:L:379:ASN:N	2.36	0.41
1:K:445:ASN:HD22	1:L:501:LYS:HE3	1.85	0.41
2:N:131:GLY:HA2	2:N:145:GLU:CB	2.51	0.41
2:N:97:TYR:CE1	2:N:99:GLY:O	2.74	0.41
2:P:146:LEU:HG	2:P:156:SER:CA	2.51	0.41
2:R:84:LYS:HD3	2:R:88:GLU:OE2	2.20	0.41
2:T:126:LEU:O	2:T:131:GLY:HA3	2.20	0.41
2:V:122:VAL:N	2:V:136:ILE:HD11	2.36	0.41
2:V:131:GLY:HA2	2:V:145:GLU:CB	2.51	0.41
2:W:131:GLY:HA2	2:W:145:GLU:CB	2.51	0.41
2:X:126:LEU:O	2:X:131:GLY:HA3	2.20	0.41
1:A:398:VAL:HG12	1:A:403:ASN:ND2	2.36	0.41
1:B:355:VAL:CA	1:B:381:LYS:HG3	2.50	0.41
1:B:406:MET:HE3	1:B:415:ILE:HD11	2.03	0.41
1:D:428:PHE:CZ	1:D:439:GLY:O	2.74	0.41
1:D:445:ASN:HD22	1:E:501:LYS:HE3	1.85	0.41
1:F:357:ILE:HG23	1:F:403:ASN:ND2	2.36	0.41
1:F:406:MET:CB	1:G:468:THR:HG21	2.47	0.41
1:J:433:LYS:HG2	1:J:435:ILE:H	1.86	0.41
1:J:459:ILE:CD1	1:J:509:LEU:CD1	2.94	0.41
1:L:512:PRO:HA	1:L:515:GLN:CD	2.41	0.41
2:O:137:THR:O	2:O:140:SER:O	2.39	0.41
2:P:126:LEU:O	2:P:131:GLY:HA3	2.20	0.41
2:Q:126:LEU:O	2:Q:131:GLY:HA3	2.20	0.41
2:Q:146:LEU:HG	2:Q:156:SER:CA	2.51	0.41
2:R:146:LEU:HG	2:R:156:SER:CA	2.51	0.41
2:S:146:LEU:HG	2:S:156:SER:CA	2.51	0.41
1:H:349:SER:CB	2:T:102:LYS:HG2	2.48	0.41
2:T:120:VAL:HG11	2:T:126:LEU:HB3	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:V:126:LEU:O	2:V:131:GLY:HA3	2.20	0.41
1:B:361:LEU:CD2	1:B:372:ILE:HG22	2.49	0.41
1:C:239:ILE:N	1:C:239:ILE:HD12	2.36	0.41
1:C:355:VAL:CA	1:C:381:LYS:HG3	2.50	0.41
1:D:499:ILE:HG23	1:D:500:GLU:N	2.36	0.41
1:E:512:PRO:HA	1:E:515:GLN:CD	2.41	0.41
1:E:388:ASP:C	1:F:376:ASP:OD2	2.53	0.41
1:F:433:LYS:HG2	1:F:435:ILE:H	1.86	0.41
1:F:515:GLN:HB3	1:F:515:GLN:HE21	1.56	0.41
1:G:406:MET:HE3	1:G:415:ILE:HD11	2.03	0.41
1:G:433:LYS:HG2	1:G:435:ILE:H	1.86	0.41
1:G:465:ALA:N	1:G:475:ILE:CD1	2.82	0.41
1:H:343:PHE:O	1:H:343:PHE:CD2	2.74	0.41
1:H:358:ARG:O	1:H:361:LEU:HB3	2.21	0.41
1:H:428:PHE:HE1	1:H:439:GLY:N	2.18	0.41
1:H:499:ILE:HG23	1:H:500:GLU:N	2.36	0.41
1:H:256:GLN:CD	1:I:231:ARG:HD2	2.29	0.41
1:I:261:ILE:N	1:I:261:ILE:HD12	2.36	0.41
1:I:463:ASP:OD2	1:I:502:PHE:CZ	2.74	0.41
1:I:450:TYR:CE1	1:I:514:GLN:HA	2.55	0.41
1:I:512:PRO:HA	1:I:515:GLN:CD	2.41	0.41
1:J:343:PHE:CD2	1:J:343:PHE:O	2.74	0.41
1:K:261:ILE:HD12	1:K:261:ILE:N	2.36	0.41
1:L:358:ARG:O	1:L:361:LEU:HB3	2.21	0.41
2:M:122:VAL:N	2:M:136:ILE:HD11	2.36	0.41
2:M:141:ILE:O	2:M:160:GLU:HA	2.20	0.41
2:O:146:LEU:HG	2:O:156:SER:CA	2.51	0.41
2:Q:107:VAL:HG13	2:Q:107:VAL:O	2.21	0.41
2:R:107:VAL:HG13	2:R:107:VAL:O	2.21	0.41
2:R:119:THR:HG22	2:R:120:VAL:H	1.86	0.41
2:S:111:ILE:N	2:S:111:ILE:CD1	2.82	0.41
2:S:126:LEU:O	2:S:131:GLY:HA3	2.20	0.41
2:T:90:PHE:CD2	2:T:114:GLU:HB2	2.57	0.41
2:V:90:PHE:CD2	2:V:114:GLU:HB2	2.56	0.41
2:W:137:THR:O	2:W:140:SER:O	2.39	0.41
1:B:255:GLN:HG3	1:B:310:LEU:HD23	2.03	0.40
1:B:378:VAL:HG23	1:B:379:ASN:N	2.36	0.40
1:B:398:VAL:HG12	1:B:403:ASN:ND2	2.36	0.40
1:B:492:VAL:CG1	1:B:499:ILE:CG1	2.94	0.40
1:C:255:GLN:HG3	1:C:310:LEU:HD23	2.04	0.40
1:C:343:PHE:CD2	1:C:343:PHE:O	2.74	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:428:PHE:CZ	1:C:439:GLY:O	2.74	0.40
1:C:463:ASP:OD2	1:C:502:PHE:CZ	2.74	0.40
1:C:515:GLN:HE21	1:C:515:GLN:HB3	1.56	0.40
1:D:424:LYS:CG	1:D:428:PHE:CE1	3.02	0.40
1:D:482:LEU:CD1	1:D:482:LEU:N	2.82	0.40
1:E:347:LYS:HD2	1:E:388:ASP:HA	2.03	0.40
1:E:349:SER:OG	2:Q:102:LYS:HG3	2.12	0.40
1:E:428:PHE:CZ	1:E:439:GLY:O	2.74	0.40
1:H:361:LEU:CD2	1:H:372:ILE:HG22	2.49	0.40
1:H:355:VAL:CA	1:H:381:LYS:HG3	2.50	0.40
1:H:398:VAL:HG12	1:H:403:ASN:ND2	2.36	0.40
1:H:481:VAL:CG1	1:H:493:THR:HB	2.51	0.40
1:I:442:TYR:CD2	1:I:443:SER:O	2.74	0.40
1:J:347:LYS:HD2	1:J:388:ASP:HA	2.03	0.40
1:J:463:ASP:OD2	1:J:502:PHE:CZ	2.74	0.40
1:K:343:PHE:CD2	1:K:343:PHE:O	2.74	0.40
1:K:352:PHE:HB3	1:K:355:VAL:HG11	2.02	0.40
1:K:378:VAL:HG23	1:K:379:ASN:N	2.36	0.40
2:M:90:PHE:CD2	2:M:114:GLU:HB2	2.56	0.40
2:P:92:LEU:HD12	2:P:95:MET:HB2	2.03	0.40
2:Q:119:THR:HG22	2:Q:120:VAL:H	1.86	0.40
2:Q:126:LEU:C	2:Q:126:LEU:HD22	2.42	0.40
2:Q:92:LEU:HD12	2:Q:95:MET:HB2	2.03	0.40
2:R:118:TYR:HE2	2:R:126:LEU:HA	1.86	0.40
2:R:131:GLY:HA2	2:R:145:GLU:CB	2.51	0.40
2:S:126:LEU:C	2:S:126:LEU:HD22	2.42	0.40
2:T:126:LEU:HD22	2:T:126:LEU:C	2.42	0.40
2:U:126:LEU:C	2:U:126:LEU:HD22	2.42	0.40
2:U:131:GLY:HA2	2:U:145:GLU:CB	2.51	0.40
1:A:343:PHE:O	1:A:343:PHE:CD2	2.74	0.40
1:A:352:PHE:HB3	1:A:355:VAL:HG11	2.02	0.40
1:B:463:ASP:OD2	1:B:502:PHE:CZ	2.74	0.40
1:C:357:ILE:HG23	1:C:403:ASN:ND2	2.36	0.40
1:C:398:VAL:HG12	1:C:403:ASN:ND2	2.36	0.40
1:D:261:ILE:HD12	1:D:261:ILE:N	2.36	0.40
1:D:398:VAL:HG12	1:D:403:ASN:ND2	2.36	0.40
1:D:463:ASP:OD2	1:D:502:PHE:CZ	2.74	0.40
1:E:358:ARG:O	1:E:361:LEU:HB3	2.21	0.40
1:E:398:VAL:HG12	1:E:403:ASN:ND2	2.36	0.40
1:E:373:VAL:HG23	1:E:412:ILE:HD11	1.95	0.40
1:E:445:ASN:HD22	1:F:501:LYS:HE3	1.85	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:492:VAL:CG1	1:E:499:ILE:CG1	2.94	0.40
1:F:378:VAL:HG23	1:F:379:ASN:N	2.36	0.40
1:H:261:ILE:HD12	1:H:261:ILE:N	2.36	0.40
1:H:496:ARG:HH11	1:H:496:ARG:HD3	1.78	0.40
1:I:378:VAL:HG23	1:I:379:ASN:N	2.36	0.40
1:I:433:LYS:HG2	1:I:435:ILE:H	1.86	0.40
1:I:496:ARG:C	1:I:499:ILE:HG22	2.42	0.40
1:I:515:GLN:HB3	1:I:515:GLN:HE21	1.56	0.40
1:J:496:ARG:C	1:J:499:ILE:HG22	2.42	0.40
1:J:499:ILE:HG23	1:J:500:GLU:N	2.36	0.40
1:K:499:ILE:HG23	1:K:500:GLU:N	2.36	0.40
1:L:450:TYR:CE1	1:L:514:GLN:HA	2.55	0.40
2:M:98:VAL:CG1	2:M:112:GLU:HB3	2.46	0.40
2:S:119:THR:HG22	2:S:120:VAL:H	1.86	0.40
2:S:131:GLY:HA2	2:S:145:GLU:CB	2.51	0.40
2:W:122:VAL:O	2:W:122:VAL:HG13	2.22	0.40
2:X:122:VAL:O	2:X:122:VAL:HG13	2.22	0.40
2:X:122:VAL:N	2:X:136:ILE:HD11	2.36	0.40
1:A:257:HIS:NE2	1:B:232:LYS:C	2.74	0.40
1:A:358:ARG:O	1:A:361:LEU:HB3	2.21	0.40
1:A:463:ASP:OD2	1:A:502:PHE:CZ	2.74	0.40
1:A:483:ILE:HG13	1:A:491:ILE:HB	1.93	0.40
1:B:406:MET:HB3	1:C:468:THR:HG22	1.96	0.40
1:B:442:TYR:CD2	1:B:443:SER:O	2.74	0.40
1:C:404:LEU:CD2	1:C:404:LEU:H	2.25	0.40
1:D:255:GLN:HG3	1:D:310:LEU:HD23	2.04	0.40
1:E:239:ILE:N	1:E:239:ILE:HD12	2.35	0.40
1:E:463:ASP:OD2	1:E:502:PHE:CZ	2.74	0.40
1:F:428:PHE:CZ	1:F:439:GLY:O	2.74	0.40
1:G:357:ILE:HG23	1:G:403:ASN:ND2	2.36	0.40
1:G:424:LYS:CG	1:G:428:PHE:CE1	3.02	0.40
1:H:428:PHE:CZ	1:H:439:GLY:O	2.74	0.40
1:H:442:TYR:CD2	1:H:443:SER:O	2.74	0.40
1:H:463:ASP:OD2	1:H:502:PHE:CZ	2.74	0.40
1:H:496:ARG:C	1:H:499:ILE:HG22	2.42	0.40
1:I:499:ILE:HG23	1:I:500:GLU:N	2.36	0.40
1:J:358:ARG:O	1:J:362:GLN:HG3	2.21	0.40
1:J:445:ASN:HD22	1:K:501:LYS:HE3	1.85	0.40
1:K:255:GLN:HG3	1:K:310:LEU:HD23	2.03	0.40
1:K:463:ASP:OD2	1:K:502:PHE:CZ	2.74	0.40
1:K:496:ARG:C	1:K:499:ILE:HG22	2.42	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:255:GLN:HG3	1:L:310:LEU:HD23	2.04	0.40
2:N:111:ILE:N	2:N:111:ILE:CD1	2.82	0.40
2:N:146:LEU:HG	2:N:156:SER:CA	2.51	0.40
2:O:126:LEU:N	2:O:126:LEU:CD1	2.83	0.40
2:P:126:LEU:C	2:P:126:LEU:HD22	2.42	0.40
2:R:120:VAL:HG11	2:R:126:LEU:HB3	2.02	0.40
2:R:87:LEU:HD12	2:R:95:MET:HE1	2.02	0.40
2:S:90:PHE:CD2	2:S:114:GLU:HB2	2.56	0.40
2:T:107:VAL:O	2:T:107:VAL:HG13	2.21	0.40
2:T:118:TYR:HE2	2:T:126:LEU:HA	1.87	0.40
2:T:97:TYR:CE1	2:T:99:GLY:O	2.74	0.40
2:W:126:LEU:O	2:W:131:GLY:HA3	2.20	0.40
2:X:90:PHE:CD2	2:X:114:GLU:HB2	2.56	0.40
2:X:137:THR:O	2:X:140:SER:O	2.39	0.40
1:A:358:ARG:O	1:A:362:GLN:HG3	2.21	0.40
1:B:358:ARG:O	1:B:361:LEU:HB3	2.21	0.40
1:C:261:ILE:N	1:C:261:ILE:HD12	2.36	0.40
1:C:499:ILE:HG23	1:C:500:GLU:N	2.36	0.40
1:C:450:TYR:CE1	1:C:514:GLN:HA	2.55	0.40
1:E:261:ILE:HD12	1:E:261:ILE:N	2.36	0.40
1:E:255:GLN:HG3	1:E:310:LEU:HD23	2.03	0.40
1:F:463:ASP:OD2	1:F:502:PHE:CZ	2.74	0.40
1:G:355:VAL:CA	1:G:381:LYS:HG3	2.50	0.40
1:G:481:VAL:CG1	1:G:493:THR:HB	2.51	0.40
1:G:463:ASP:OD2	1:G:502:PHE:CZ	2.74	0.40
1:H:361:LEU:CD2	1:H:372:ILE:CB	2.95	0.40
1:J:357:ILE:HG23	1:J:403:ASN:ND2	2.36	0.40
1:J:424:LYS:HG2	1:J:428:PHE:CE2	2.54	0.40
1:J:483:ILE:HG13	1:J:491:ILE:HB	1.93	0.40
1:K:295:ASN:HD21	1:L:270:PRO:HD3	1.27	0.40
1:K:358:ARG:O	1:K:361:LEU:HB3	2.21	0.40
1:K:442:TYR:CD2	1:K:443:SER:N	2.90	0.40
1:L:404:LEU:CD2	1:L:404:LEU:H	2.25	0.40
2:M:118:TYR:HE2	2:M:126:LEU:HA	1.87	0.40
2:M:131:GLY:HA2	2:M:145:GLU:CB	2.51	0.40
2:M:146:LEU:HG	2:M:156:SER:CA	2.51	0.40
2:N:126:LEU:O	2:N:131:GLY:HA3	2.20	0.40
2:O:90:PHE:CD2	2:O:114:GLU:HB2	2.56	0.40
2:P:107:VAL:O	2:P:107:VAL:HG13	2.21	0.40
2:P:119:THR:HG22	2:P:120:VAL:H	1.86	0.40
2:Q:131:GLY:HA2	2:Q:145:GLU:CB	2.51	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:R:137:THR:O	2:R:140:SER:O	2.39	0.40
2:R:92:LEU:HD12	2:R:95:MET:HB2	2.03	0.40
2:S:122:VAL:HG13	2:S:122:VAL:O	2.22	0.40
2:S:120:VAL:HG11	2:S:126:LEU:HB3	2.02	0.40
2:S:122:VAL:N	2:S:136:ILE:HD11	2.36	0.40
2:T:146:LEU:HG	2:T:156:SER:CA	2.51	0.40
2:U:107:VAL:HG13	2:U:107:VAL:O	2.21	0.40
2:U:119:THR:HG22	2:U:120:VAL:H	1.86	0.40
2:W:146:LEU:HG	2:W:156:SER:CA	2.51	0.40
2:X:146:LEU:HG	2:X:156:SER:CA	2.51	0.40
1:A:442:TYR:CD2	1:A:443:SER:N	2.90	0.40
1:B:343:PHE:CD2	1:B:343:PHE:O	2.74	0.40
1:B:428:PHE:CZ	1:B:439:GLY:O	2.74	0.40
1:C:358:ARG:O	1:C:362:GLN:HG3	2.21	0.40
1:C:459:ILE:CG1	1:C:460:LEU:N	2.83	0.40
1:C:496:ARG:C	1:C:499:ILE:HG22	2.42	0.40
1:F:445:ASN:HD22	1:G:501:LYS:HE3	1.85	0.40
1:F:499:ILE:HG23	1:F:500:GLU:N	2.36	0.40
1:F:450:TYR:CE1	1:F:514:GLN:HA	2.55	0.40
1:F:257:HIS:HD2	1:G:232:LYS:HB2	1.78	0.40
1:G:358:ARG:O	1:G:362:GLN:HG3	2.21	0.40
1:G:496:ARG:C	1:G:499:ILE:HG22	2.42	0.40
1:I:358:ARG:O	1:I:362:GLN:HG3	2.21	0.40
1:I:424:LYS:CG	1:I:428:PHE:CE1	3.02	0.40
1:H:445:ASN:HD22	1:I:501:LYS:HE3	1.85	0.40
1:K:515:GLN:HE21	1:K:515:GLN:HB3	1.56	0.40
2:N:90:PHE:CD2	2:N:114:GLU:HB2	2.57	0.40
2:P:118:TYR:HE2	2:P:126:LEU:HA	1.87	0.40
2:Q:122:VAL:HG13	2:Q:122:VAL:O	2.22	0.40
2:R:90:PHE:CD2	2:R:114:GLU:HB2	2.56	0.40
2:U:122:VAL:N	2:U:136:ILE:HD11	2.36	0.40
2:U:141:ILE:O	2:U:160:GLU:HA	2.20	0.40
2:V:107:VAL:HG13	2:V:107:VAL:O	2.21	0.40
2:V:122:VAL:O	2:V:122:VAL:HG13	2.22	0.40
2:W:118:TYR:HE2	2:W:126:LEU:HA	1.87	0.40
2:W:141:ILE:O	2:W:160:GLU:HA	2.20	0.40

There are no symmetry-related clashes.

5.3 Torsion angles ⓘ

5.3.1 Protein backbone ⓘ

In the following table, the Percentiles column shows the percent Ramachandran outliers of the chain as a percentile score with respect to all 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	271/745 (36%)	235 (87%)	29 (11%)	7 (3%)	6	40
1	B	271/745 (36%)	235 (87%)	29 (11%)	7 (3%)	6	40
1	C	271/745 (36%)	235 (87%)	29 (11%)	7 (3%)	6	40
1	D	271/745 (36%)	235 (87%)	29 (11%)	7 (3%)	6	40
1	E	271/745 (36%)	235 (87%)	29 (11%)	7 (3%)	6	40
1	F	271/745 (36%)	235 (87%)	29 (11%)	7 (3%)	6	40
1	G	271/745 (36%)	235 (87%)	29 (11%)	7 (3%)	6	40
1	H	271/745 (36%)	235 (87%)	29 (11%)	7 (3%)	6	40
1	I	271/745 (36%)	235 (87%)	29 (11%)	7 (3%)	6	40
1	J	271/745 (36%)	235 (87%)	29 (11%)	7 (3%)	6	40
1	K	271/745 (36%)	235 (87%)	29 (11%)	7 (3%)	6	40
1	L	271/745 (36%)	235 (87%)	29 (11%)	7 (3%)	6	40
2	M	80/181 (44%)	51 (64%)	19 (24%)	10 (12%)	0	7
2	N	80/181 (44%)	51 (64%)	19 (24%)	10 (12%)	0	7
2	O	80/181 (44%)	51 (64%)	19 (24%)	10 (12%)	0	7
2	P	80/181 (44%)	51 (64%)	19 (24%)	10 (12%)	0	7
2	Q	80/181 (44%)	51 (64%)	19 (24%)	10 (12%)	0	7
2	R	80/181 (44%)	51 (64%)	19 (24%)	10 (12%)	0	7
2	S	80/181 (44%)	51 (64%)	19 (24%)	10 (12%)	0	7
2	T	80/181 (44%)	51 (64%)	19 (24%)	10 (12%)	0	7
2	U	80/181 (44%)	51 (64%)	19 (24%)	10 (12%)	0	7
2	V	80/181 (44%)	51 (64%)	19 (24%)	10 (12%)	0	7
2	W	80/181 (44%)	51 (64%)	19 (24%)	10 (12%)	0	7
2	X	80/181 (44%)	51 (64%)	19 (24%)	10 (12%)	0	7
All	All	4212/11112 (38%)	3432 (82%)	576 (14%)	204 (5%)	5	28

All (204) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	379	ASN
1	A	402	ARG
1	B	379	ASN
1	B	402	ARG
1	C	379	ASN
1	C	402	ARG
1	D	379	ASN
1	D	402	ARG
1	E	379	ASN
1	E	402	ARG
1	F	379	ASN
1	F	402	ARG
1	G	379	ASN
1	G	402	ARG
1	H	379	ASN
1	H	402	ARG
1	I	379	ASN
1	I	402	ARG
1	J	379	ASN
1	J	402	ARG
1	K	379	ASN
1	K	402	ARG
1	L	379	ASN
1	L	402	ARG
2	M	107	VAL
2	M	129	ASN
2	N	107	VAL
2	N	129	ASN
2	O	107	VAL
2	O	129	ASN
2	P	107	VAL
2	P	129	ASN
2	Q	107	VAL
2	Q	129	ASN
2	R	107	VAL
2	R	129	ASN
2	S	107	VAL
2	S	129	ASN
2	T	107	VAL
2	T	129	ASN
2	U	107	VAL
2	U	129	ASN

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Mol	Chain	Res	Type
2	V	107	VAL
2	V	129	ASN
2	W	107	VAL
2	W	129	ASN
2	X	107	VAL
2	X	129	ASN
1	A	516	VAL
1	B	516	VAL
1	C	516	VAL
1	D	516	VAL
1	E	516	VAL
1	F	516	VAL
1	G	516	VAL
1	H	516	VAL
1	I	516	VAL
1	J	516	VAL
1	K	516	VAL
1	L	516	VAL
2	M	86	THR
2	N	86	THR
2	O	86	THR
2	P	86	THR
2	Q	86	THR
2	R	86	THR
2	S	86	THR
2	T	86	THR
2	U	86	THR
2	V	86	THR
2	W	86	THR
2	X	86	THR
1	A	494	ASP
1	B	494	ASP
1	C	494	ASP
1	D	494	ASP
1	E	494	ASP
1	F	494	ASP
1	G	494	ASP
1	H	494	ASP
1	I	494	ASP
1	J	494	ASP
1	K	494	ASP
1	L	494	ASP

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Mol	Chain	Res	Type
2	M	105	GLN
2	M	151	THR
2	M	156	SER
2	M	157	ARG
2	M	159	ALA
2	N	105	GLN
2	N	151	THR
2	N	156	SER
2	N	157	ARG
2	N	159	ALA
2	O	105	GLN
2	O	151	THR
2	O	156	SER
2	O	157	ARG
2	O	159	ALA
2	P	105	GLN
2	P	151	THR
2	P	156	SER
2	P	157	ARG
2	P	159	ALA
2	Q	105	GLN
2	Q	151	THR
2	Q	156	SER
2	Q	157	ARG
2	Q	159	ALA
2	R	105	GLN
2	R	151	THR
2	R	156	SER
2	R	157	ARG
2	R	159	ALA
2	S	105	GLN
2	S	151	THR
2	S	156	SER
2	S	157	ARG
2	S	159	ALA
2	T	105	GLN
2	T	151	THR
2	T	156	SER
2	T	157	ARG
2	T	159	ALA
2	U	105	GLN
2	U	151	THR

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Mol	Chain	Res	Type
2	U	156	SER
2	U	157	ARG
2	U	159	ALA
2	V	105	GLN
2	V	151	THR
2	V	156	SER
2	V	157	ARG
2	V	159	ALA
2	W	105	GLN
2	W	151	THR
2	W	156	SER
2	W	157	ARG
2	W	159	ALA
2	X	105	GLN
2	X	151	THR
2	X	156	SER
2	X	157	ARG
2	X	159	ALA
2	M	101	LEU
2	M	122	VAL
2	N	101	LEU
2	N	122	VAL
2	O	101	LEU
2	O	122	VAL
2	P	101	LEU
2	P	122	VAL
2	Q	101	LEU
2	Q	122	VAL
2	R	101	LEU
2	R	122	VAL
2	S	101	LEU
2	S	122	VAL
2	T	101	LEU
2	T	122	VAL
2	U	101	LEU
2	U	122	VAL
2	V	101	LEU
2	V	122	VAL
2	W	101	LEU
2	W	122	VAL
2	X	101	LEU
2	X	122	VAL

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Mol	Chain	Res	Type
1	A	370	MET
1	B	370	MET
1	C	370	MET
1	D	370	MET
1	E	370	MET
1	F	370	MET
1	G	370	MET
1	H	370	MET
1	I	370	MET
1	J	370	MET
1	K	370	MET
1	L	370	MET
1	A	418	ARG
1	B	418	ARG
1	C	418	ARG
1	D	418	ARG
1	E	418	ARG
1	F	418	ARG
1	G	418	ARG
1	H	418	ARG
1	I	418	ARG
1	J	418	ARG
1	K	418	ARG
1	L	418	ARG
1	A	249	GLY
1	B	249	GLY
1	C	249	GLY
1	D	249	GLY
1	E	249	GLY
1	F	249	GLY
1	G	249	GLY
1	H	249	GLY
1	I	249	GLY
1	J	249	GLY
1	K	249	GLY
1	L	249	GLY

5.3.2 Protein sidechains

In the following table, the Percentiles column shows the percent sidechain outliers of the chain as a percentile score with respect to all 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	239/615 (39%)	216 (90%)	23 (10%)	10	35
1	B	239/615 (39%)	216 (90%)	23 (10%)	10	35
1	C	239/615 (39%)	216 (90%)	23 (10%)	10	35
1	D	239/615 (39%)	216 (90%)	23 (10%)	10	35
1	E	239/615 (39%)	216 (90%)	23 (10%)	10	35
1	F	239/615 (39%)	216 (90%)	23 (10%)	10	35
1	G	239/615 (39%)	216 (90%)	23 (10%)	10	35
1	H	239/615 (39%)	216 (90%)	23 (10%)	10	35
1	I	239/615 (39%)	216 (90%)	23 (10%)	10	35
1	J	239/615 (39%)	216 (90%)	23 (10%)	10	35
1	K	239/615 (39%)	216 (90%)	23 (10%)	10	35
1	L	239/615 (39%)	216 (90%)	23 (10%)	10	35
2	M	71/152 (47%)	59 (83%)	12 (17%)	2	16
2	N	71/152 (47%)	59 (83%)	12 (17%)	2	16
2	O	71/152 (47%)	59 (83%)	12 (17%)	2	16
2	P	71/152 (47%)	59 (83%)	12 (17%)	2	16
2	Q	71/152 (47%)	59 (83%)	12 (17%)	2	16
2	R	71/152 (47%)	59 (83%)	12 (17%)	2	16
2	S	71/152 (47%)	59 (83%)	12 (17%)	2	16
2	T	71/152 (47%)	59 (83%)	12 (17%)	2	16
2	U	71/152 (47%)	59 (83%)	12 (17%)	2	16
2	V	71/152 (47%)	59 (83%)	12 (17%)	2	16
2	W	71/152 (47%)	59 (83%)	12 (17%)	2	16
2	X	71/152 (47%)	59 (83%)	12 (17%)	2	16
All	All	3720/9204 (40%)	3300 (89%)	420 (11%)	11	29

All (420) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	229	ASP
1	A	233	ASP
1	A	242	LEU

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Mol	Chain	Res	Type
1	A	254	SER
1	A	255	GLN
1	A	269	LEU
1	A	276	SER
1	A	278	ASP
1	A	284	THR
1	A	296	ASN
1	A	299	GLN
1	A	300	LEU
1	A	309	GLU
1	A	323	GLN
1	A	325	LEU
1	A	371	ASN
1	A	404	LEU
1	A	420	GLU
1	A	430	GLN
1	A	445	ASN
1	A	464	ASN
1	A	482	LEU
1	A	515	GLN
1	B	229	ASP
1	B	233	ASP
1	B	242	LEU
1	B	254	SER
1	B	255	GLN
1	B	269	LEU
1	B	276	SER
1	B	278	ASP
1	B	284	THR
1	B	296	ASN
1	B	299	GLN
1	B	300	LEU
1	B	309	GLU
1	B	323	GLN
1	B	325	LEU
1	B	371	ASN
1	B	404	LEU
1	B	420	GLU
1	B	430	GLN
1	B	445	ASN
1	B	464	ASN
1	B	482	LEU

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Mol	Chain	Res	Type
1	B	515	GLN
1	C	229	ASP
1	C	233	ASP
1	C	242	LEU
1	C	254	SER
1	C	255	GLN
1	C	269	LEU
1	C	276	SER
1	C	278	ASP
1	C	284	THR
1	C	296	ASN
1	C	299	GLN
1	C	300	LEU
1	C	309	GLU
1	C	323	GLN
1	C	325	LEU
1	C	371	ASN
1	C	404	LEU
1	C	420	GLU
1	C	430	GLN
1	C	445	ASN
1	C	464	ASN
1	C	482	LEU
1	C	515	GLN
1	D	229	ASP
1	D	233	ASP
1	D	242	LEU
1	D	254	SER
1	D	255	GLN
1	D	269	LEU
1	D	276	SER
1	D	278	ASP
1	D	284	THR
1	D	296	ASN
1	D	299	GLN
1	D	300	LEU
1	D	309	GLU
1	D	323	GLN
1	D	325	LEU
1	D	371	ASN
1	D	404	LEU
1	D	420	GLU

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Mol	Chain	Res	Type
1	D	430	GLN
1	D	445	ASN
1	D	464	ASN
1	D	482	LEU
1	D	515	GLN
1	E	229	ASP
1	E	233	ASP
1	E	242	LEU
1	E	254	SER
1	E	255	GLN
1	E	269	LEU
1	E	276	SER
1	E	278	ASP
1	E	284	THR
1	E	296	ASN
1	E	299	GLN
1	E	300	LEU
1	E	309	GLU
1	E	323	GLN
1	E	325	LEU
1	E	371	ASN
1	E	404	LEU
1	E	420	GLU
1	E	430	GLN
1	E	445	ASN
1	E	464	ASN
1	E	482	LEU
1	E	515	GLN
1	F	229	ASP
1	F	233	ASP
1	F	242	LEU
1	F	254	SER
1	F	255	GLN
1	F	269	LEU
1	F	276	SER
1	F	278	ASP
1	F	284	THR
1	F	296	ASN
1	F	299	GLN
1	F	300	LEU
1	F	309	GLU
1	F	323	GLN

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Mol	Chain	Res	Type
1	F	325	LEU
1	F	371	ASN
1	F	404	LEU
1	F	420	GLU
1	F	430	GLN
1	F	445	ASN
1	F	464	ASN
1	F	482	LEU
1	F	515	GLN
1	G	229	ASP
1	G	233	ASP
1	G	242	LEU
1	G	254	SER
1	G	255	GLN
1	G	269	LEU
1	G	276	SER
1	G	278	ASP
1	G	284	THR
1	G	296	ASN
1	G	299	GLN
1	G	300	LEU
1	G	309	GLU
1	G	323	GLN
1	G	325	LEU
1	G	371	ASN
1	G	404	LEU
1	G	420	GLU
1	G	430	GLN
1	G	445	ASN
1	G	464	ASN
1	G	482	LEU
1	G	515	GLN
1	H	229	ASP
1	H	233	ASP
1	H	242	LEU
1	H	254	SER
1	H	255	GLN
1	H	269	LEU
1	H	276	SER
1	H	278	ASP
1	H	284	THR
1	H	296	ASN

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Mol	Chain	Res	Type
1	H	299	GLN
1	H	300	LEU
1	H	309	GLU
1	H	323	GLN
1	H	325	LEU
1	H	371	ASN
1	H	404	LEU
1	H	420	GLU
1	H	430	GLN
1	H	445	ASN
1	H	464	ASN
1	H	482	LEU
1	H	515	GLN
1	I	229	ASP
1	I	233	ASP
1	I	242	LEU
1	I	254	SER
1	I	255	GLN
1	I	269	LEU
1	I	276	SER
1	I	278	ASP
1	I	284	THR
1	I	296	ASN
1	I	299	GLN
1	I	300	LEU
1	I	309	GLU
1	I	323	GLN
1	I	325	LEU
1	I	371	ASN
1	I	404	LEU
1	I	420	GLU
1	I	430	GLN
1	I	445	ASN
1	I	464	ASN
1	I	482	LEU
1	I	515	GLN
1	J	229	ASP
1	J	233	ASP
1	J	242	LEU
1	J	254	SER
1	J	255	GLN
1	J	269	LEU

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Mol	Chain	Res	Type
1	J	276	SER
1	J	278	ASP
1	J	284	THR
1	J	296	ASN
1	J	299	GLN
1	J	300	LEU
1	J	309	GLU
1	J	323	GLN
1	J	325	LEU
1	J	371	ASN
1	J	404	LEU
1	J	420	GLU
1	J	430	GLN
1	J	445	ASN
1	J	464	ASN
1	J	482	LEU
1	J	515	GLN
1	K	229	ASP
1	K	233	ASP
1	K	242	LEU
1	K	254	SER
1	K	255	GLN
1	K	269	LEU
1	K	276	SER
1	K	278	ASP
1	K	284	THR
1	K	296	ASN
1	K	299	GLN
1	K	300	LEU
1	K	309	GLU
1	K	323	GLN
1	K	325	LEU
1	K	371	ASN
1	K	404	LEU
1	K	420	GLU
1	K	430	GLN
1	K	445	ASN
1	K	464	ASN
1	K	482	LEU
1	K	515	GLN
1	L	229	ASP
1	L	233	ASP

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Mol	Chain	Res	Type
1	L	242	LEU
1	L	254	SER
1	L	255	GLN
1	L	269	LEU
1	L	276	SER
1	L	278	ASP
1	L	284	THR
1	L	296	ASN
1	L	299	GLN
1	L	300	LEU
1	L	309	GLU
1	L	323	GLN
1	L	325	LEU
1	L	371	ASN
1	L	404	LEU
1	L	420	GLU
1	L	430	GLN
1	L	445	ASN
1	L	464	ASN
1	L	482	LEU
1	L	515	GLN
2	M	97	TYR
2	M	100	ILE
2	M	110	PHE
2	M	119	THR
2	M	125	TYR
2	M	126	LEU
2	M	141	ILE
2	M	143	LEU
2	M	153	ASN
2	M	154	TRP
2	M	161	LEU
2	M	164	ASN
2	N	97	TYR
2	N	100	ILE
2	N	110	PHE
2	N	119	THR
2	N	125	TYR
2	N	126	LEU
2	N	141	ILE
2	N	143	LEU
2	N	153	ASN

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Mol	Chain	Res	Type
2	N	154	TRP
2	N	161	LEU
2	N	164	ASN
2	O	97	TYR
2	O	100	ILE
2	O	110	PHE
2	O	119	THR
2	O	125	TYR
2	O	126	LEU
2	O	141	ILE
2	O	143	LEU
2	O	153	ASN
2	O	154	TRP
2	O	161	LEU
2	O	164	ASN
2	P	97	TYR
2	P	100	ILE
2	P	110	PHE
2	P	119	THR
2	P	125	TYR
2	P	126	LEU
2	P	141	ILE
2	P	143	LEU
2	P	153	ASN
2	P	154	TRP
2	P	161	LEU
2	P	164	ASN
2	Q	97	TYR
2	Q	100	ILE
2	Q	110	PHE
2	Q	119	THR
2	Q	125	TYR
2	Q	126	LEU
2	Q	141	ILE
2	Q	143	LEU
2	Q	153	ASN
2	Q	154	TRP
2	Q	161	LEU
2	Q	164	ASN
2	R	97	TYR
2	R	100	ILE
2	R	110	PHE

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Mol	Chain	Res	Type
2	R	119	THR
2	R	125	TYR
2	R	126	LEU
2	R	141	ILE
2	R	143	LEU
2	R	153	ASN
2	R	154	TRP
2	R	161	LEU
2	R	164	ASN
2	S	97	TYR
2	S	100	ILE
2	S	110	PHE
2	S	119	THR
2	S	125	TYR
2	S	126	LEU
2	S	141	ILE
2	S	143	LEU
2	S	153	ASN
2	S	154	TRP
2	S	161	LEU
2	S	164	ASN
2	T	97	TYR
2	T	100	ILE
2	T	110	PHE
2	T	119	THR
2	T	125	TYR
2	T	126	LEU
2	T	141	ILE
2	T	143	LEU
2	T	153	ASN
2	T	154	TRP
2	T	161	LEU
2	T	164	ASN
2	U	97	TYR
2	U	100	ILE
2	U	110	PHE
2	U	119	THR
2	U	125	TYR
2	U	126	LEU
2	U	141	ILE
2	U	143	LEU
2	U	153	ASN

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Mol	Chain	Res	Type
2	U	154	TRP
2	U	161	LEU
2	U	164	ASN
2	V	97	TYR
2	V	100	ILE
2	V	110	PHE
2	V	119	THR
2	V	125	TYR
2	V	126	LEU
2	V	141	ILE
2	V	143	LEU
2	V	153	ASN
2	V	154	TRP
2	V	161	LEU
2	V	164	ASN
2	W	97	TYR
2	W	100	ILE
2	W	110	PHE
2	W	119	THR
2	W	125	TYR
2	W	126	LEU
2	W	141	ILE
2	W	143	LEU
2	W	153	ASN
2	W	154	TRP
2	W	161	LEU
2	W	164	ASN
2	X	97	TYR
2	X	100	ILE
2	X	110	PHE
2	X	119	THR
2	X	125	TYR
2	X	126	LEU
2	X	141	ILE
2	X	143	LEU
2	X	153	ASN
2	X	154	TRP
2	X	161	LEU
2	X	164	ASN

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (157) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	296	ASN
1	A	299	GLN
1	A	307	ASN
1	A	371	ASN
1	A	400	GLN
1	A	403	ASN
1	A	408	GLN
1	A	430	GLN
1	A	445	ASN
1	A	464	ASN
1	A	515	GLN
1	B	296	ASN
1	B	299	GLN
1	B	307	ASN
1	B	371	ASN
1	B	400	GLN
1	B	403	ASN
1	B	408	GLN
1	B	430	GLN
1	B	445	ASN
1	B	464	ASN
1	B	515	GLN
1	C	296	ASN
1	C	299	GLN
1	C	371	ASN
1	C	400	GLN
1	C	403	ASN
1	C	408	GLN
1	C	430	GLN
1	C	445	ASN
1	C	464	ASN
1	C	515	GLN
1	D	296	ASN
1	D	299	GLN
1	D	307	ASN
1	D	371	ASN
1	D	400	GLN
1	D	403	ASN
1	D	408	GLN
1	D	430	GLN
1	D	445	ASN
1	D	464	ASN
1	D	515	GLN

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Mol	Chain	Res	Type
1	E	296	ASN
1	E	299	GLN
1	E	307	ASN
1	E	371	ASN
1	E	400	GLN
1	E	403	ASN
1	E	408	GLN
1	E	430	GLN
1	E	445	ASN
1	E	464	ASN
1	E	515	GLN
1	F	296	ASN
1	F	299	GLN
1	F	307	ASN
1	F	371	ASN
1	F	400	GLN
1	F	403	ASN
1	F	408	GLN
1	F	430	GLN
1	F	445	ASN
1	F	464	ASN
1	F	515	GLN
1	G	296	ASN
1	G	299	GLN
1	G	307	ASN
1	G	371	ASN
1	G	400	GLN
1	G	403	ASN
1	G	408	GLN
1	G	430	GLN
1	G	445	ASN
1	G	464	ASN
1	G	515	GLN
1	H	296	ASN
1	H	299	GLN
1	H	307	ASN
1	H	371	ASN
1	H	400	GLN
1	H	403	ASN
1	H	408	GLN
1	H	430	GLN
1	H	445	ASN

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Mol	Chain	Res	Type
1	H	464	ASN
1	H	515	GLN
1	I	296	ASN
1	I	299	GLN
1	I	307	ASN
1	I	371	ASN
1	I	400	GLN
1	I	403	ASN
1	I	408	GLN
1	I	430	GLN
1	I	445	ASN
1	I	464	ASN
1	I	515	GLN
1	J	296	ASN
1	J	299	GLN
1	J	307	ASN
1	J	371	ASN
1	J	400	GLN
1	J	403	ASN
1	J	408	GLN
1	J	430	GLN
1	J	445	ASN
1	J	464	ASN
1	J	515	GLN
1	K	296	ASN
1	K	299	GLN
1	K	307	ASN
1	K	371	ASN
1	K	400	GLN
1	K	403	ASN
1	K	408	GLN
1	K	430	GLN
1	K	445	ASN
1	K	464	ASN
1	K	515	GLN
1	L	296	ASN
1	L	299	GLN
1	L	307	ASN
1	L	371	ASN
1	L	400	GLN
1	L	403	ASN
1	L	408	GLN

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Mol	Chain	Res	Type
1	L	430	GLN
1	L	445	ASN
1	L	464	ASN
1	L	515	GLN
2	M	94	ASN
2	M	129	ASN
2	N	94	ASN
2	N	129	ASN
2	N	164	ASN
2	O	94	ASN
2	O	129	ASN
2	P	94	ASN
2	P	129	ASN
2	Q	94	ASN
2	Q	129	ASN
2	R	94	ASN
2	R	129	ASN
2	S	94	ASN
2	S	129	ASN
2	T	94	ASN
2	T	129	ASN
2	U	94	ASN
2	U	129	ASN
2	V	94	ASN
2	V	129	ASN
2	V	164	ASN
2	W	94	ASN
2	W	129	ASN
2	X	94	ASN
2	X	129	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 [i](#)

There are no carbohydrates in this entry.

5.6 Ligand geometry [i](#)

There are no ligands in this entry.

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.