



Full wwPDB EM Validation Report ⓘ

Nov 20, 2022 – 05:21 pm 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 EM Validation Report for a publicly released PDB entry.

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

A user guide is available at

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

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

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

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

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

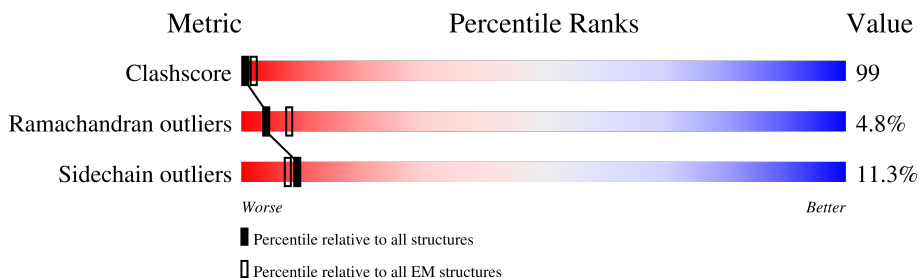
1 Overall quality at a glance i

The following experimental techniques were used to determine the structure:

ELECTRON MICROSCOPY

The reported resolution of this entry is 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	158937	4297
Ramachandran outliers	154571	4023
Sidechain outliers	154315	3826

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

Mol	Chain	Length	Quality of chain
1	A	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%

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Mol	Chain	Length	Quality of chain
1	I	745	9% 25% 63%
1	J	745	9% 25% 63%
1	K	745	9% 25% 63%
1	L	745	9% 25% 63%
2	M	181	10% 27% 8% 55%
2	N	181	10% 28% 7% 55%
2	O	181	10% 28% 7% 55%
2	P	181	11% 27% 8% 55%
2	Q	181	12% 25% 8% 55%
2	R	181	10% 28% 8% 55%
2	S	181	11% 26% 8% 55%
2	T	181	10% 28% 7% 55%
2	U	181	12% 25% 8% 55%
2	V	181	11% 27% 8% 55%
2	W	181	12% 26% 8% 55%
2	X	181	11% 27% 8% 55%

2 Entry composition [i](#)

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

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

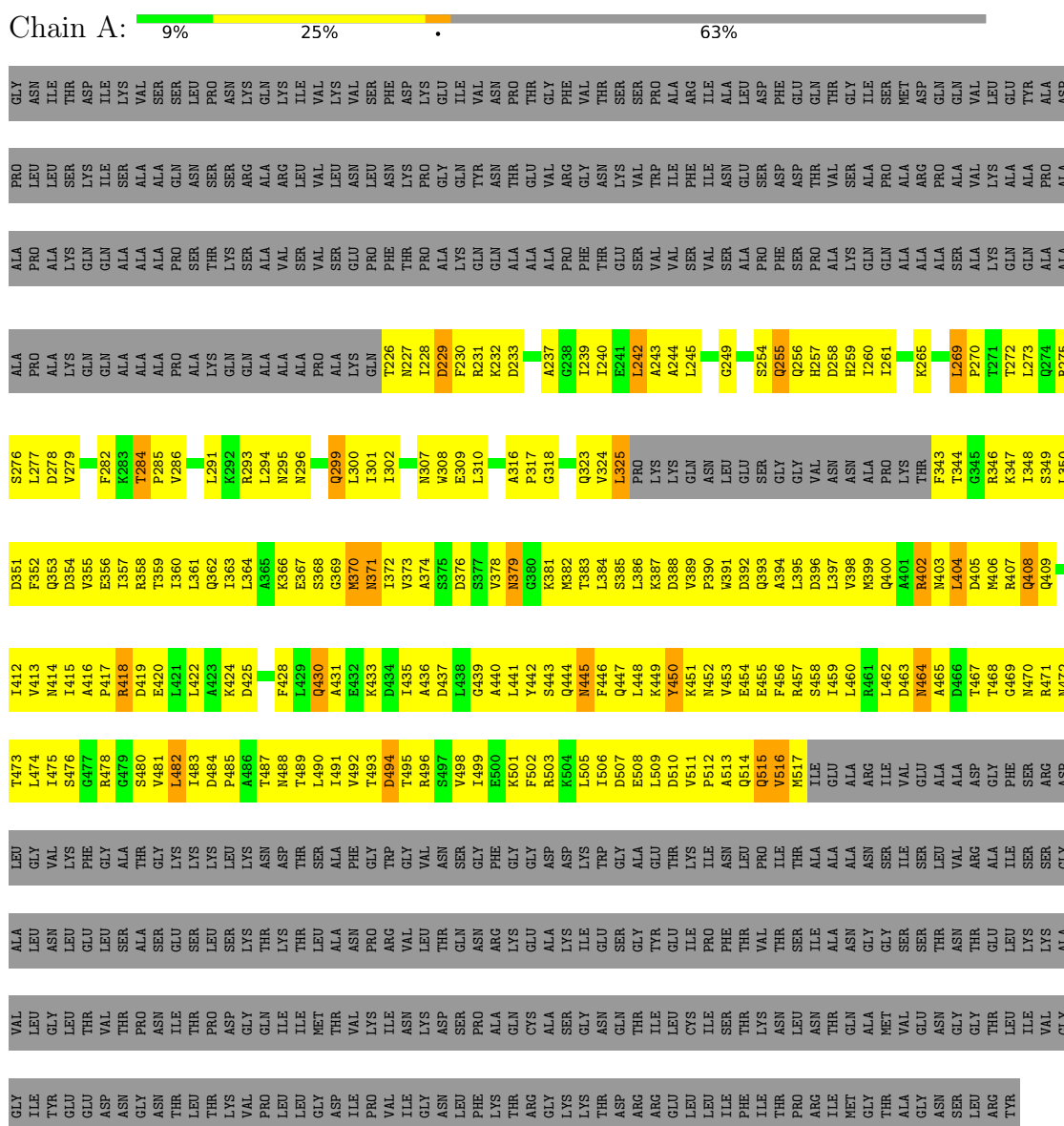
- Molecule 2 is a protein called PILP PROTEIN.

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

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



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

S276	D851	I412	L474	LEU	LEU	ILE
L277	F352	V413	I475	ASN	GLY	TYR
D278	Q353	M414	S476	LEU	LEU	GLU
V279	D354	I415	G477	GLU	THR	GLU
F282	V355	A416	R478	VAL	VAL	ASP
K283	E356	P417	G479	THR	THR	ASN
T284	I357	R418	S480	ALA	PRO	GLY
P285	R358	D419	V481	ASN	ASN	THR
V286	T359	E420	L482	GLU	ILE	THR
L291	I360	L421	I483	LEU	LEU	THR
K292	L361	L422	L484	LEU	PRO	THR
L293	Q362	A423	P485	LEU	ASP	LYS
R294	L363	K424	A486	LEU	GLY	VAL
L294	L364	D425	T487	THR	GLN	PRO
N295	A365	F428	M488	LYS	ILE	LEU
N296	K366	L429	T489	THR	ILE	LEU
E367	E367	L429	L490	THR	THR	GLY
S368	S368	Q430	L491	ALA	ALA	ASP
G369	G369	A431	I491	ASN	VAL	ILE
Q299	M370	E432	V492	PRO	LYS	PRO
L300	N371	K433	D494	ARG	ILE	VAL
I302	I372	D434	T495	VAL	ASN	ILE
N307	V373	I435	R496	LEU	LYS	GLY
E309	A374	A436	S497	THR	ASP	ASN
L310	S375	D437	V498	GLN	SER	GLY
N308	D376	L438	L499	ASN	PRO	GLY
E309	S377	G439	E500	ARG	ALA	PHE
L310	V378	A440	K501	LYS	GLN	THR
A316	N379	L441	F502	GLU	CYS	LYS
G318	G380	L441	R503	ALA	ALA	GLY
Q323	K381	Q444	K504	LYS	SER	LYS
V324	M382	M445	L505	ILE	GLY	THR
L325	L384	F446	L506	GLU	ASN	THR
PRO	S385	Q447	D507	SER	GLN	ASP
LYS	L386	L448	E508	THR	GLY	ARG
LYS	L387	K449	L509	ILE	THR	ARG
GLN	K387	Y450	D510	GLU	GLU	GLU
ASN	D388	K451	W511	LEU	CYS	ILE
LEU	V389	M452	P512	PRO	ILE	ILE
GLU	W391	V453	A513	PHE	ASN	ILE
GLU	D392	E454	Q514	THR	THR	THR
SER	Q393	E455	Q515	LEU	VAL	LEU
GLY	A394	F456	M516	THR	ASN	THR
GLY	L395	R457	M517	SER	ASP	THR
VAL	D396	S458	ILE	ILE	ARG	ARG
ASN	L397	I459	GLU	ALA	GLN	GLN
ASN	V398	L460	ALA	ALA	THR	THR
ALA	M399	R461	GLY	GLY	ALA	ALA
PRO	Q400	D463	ILE	THR	MET	VAL
LYS	A401	M464	GLY	SER	GLU	SER
THR	R402	A465	ALA	THR	ASN	ASP
F343	M403	D466	ALA	THR	GLN	GLN
T344	L404	T467	VAL	THR	ALA	PRO
G345	D405	T468	ARG	GLU	VAL	VAL
R346	M406	G469	ALA	LEU	LYS	LYS
K347	R407	M470	PHE	ILE	GLN	ALA
I348	Q408	R471	SER	SER	GLN	GLN
S349	Q409	N472	ARG	ARG	PRO	PRO
L350	LEU	T473	ASP	GLY	ALA	ALA

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



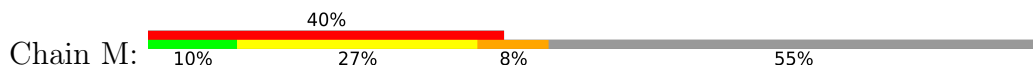
GLY	PRO	ALA	ALA	ALA	ALA	ALA	S276	D851	I412	T473	LEU
ASN	LEU	PRO	ALA	ALA	ALA	ALA	L277	F352	V413	L474	GLY
THR	LEU	ALA	LYS	GLN	GLN	GLN	D278	Q353	M414	I475	VAL
ILE	SER	LYS	ASP	ILE	ILE	ILE	V279	D354	I415	S476	VAL
LYS	VAL	ALA	THR	THR	THR	THR	F282	V355	A416	G477	PHE
VAL	SER	ALA	ASP	ASP	ASP	ASP	K283	E356	P417	R478	ALA
ALA	ALA	ALA	LYS	LYS	LYS	LYS	T284	I357	R418	G479	ALA
ALA	ALA	ALA	VAL	VAL	VAL	VAL	P285	R358	D419	S480	THR
ALA	ALA	ALA	THR	THR	THR	THR	V286	T359	E420	V481	GLY
ALA	GLN	GLN	LEU	LEU	LEU	LEU	L291	I360	L421	L482	LYS
PRO	LEU	PRO	LEU	LEU	LEU	LEU	V286	L361	L422	L484	LYS
PRO	LEU	PRO	LEU	LEU	LEU	LEU	L291	Q362	A423	P485	LYS
PRO	LEU	PRO	LEU	LEU	LEU	LEU	K292	L363	K424	A486	LEU
PRO	LEU	PRO	LEU	LEU	LEU	LEU	R293	L364	D425	L364	LYS
PRO	LEU	PRO	LEU	LEU	LEU	LEU	L294	A365	F428	M488	ASN
PRO	LEU	PRO	LEU	LEU	LEU	LEU	N294	K366	L429	T489	ASP
PRO	LEU	PRO	LEU	LEU	LEU	LEU	N295	E367	L429	L490	THR
PRO	LEU	PRO	LEU	LEU	LEU	LEU	N296	S368	Q430	L491	SER
PRO	LEU	PRO	LEU	LEU	LEU	LEU	Q299	G369	A431	I491	ALA
PRO	LEU	PRO	LEU	LEU	LEU	LEU	L300	M370	E432	V492	PHE
PRO	LEU	PRO	LEU	LEU	LEU	LEU	I301	N371	K433	D494	GLY
PRO	LEU	PRO	LEU	LEU	LEU	LEU	L302	I372	D434	T495	TRP
PRO	LEU	PRO	LEU	LEU	LEU	LEU	N307	V373	I435	R496	GLY
PRO	LEU	PRO	LEU	LEU	LEU	LEU	E309	A374	A436	S497	VAL
PRO	LEU	PRO	LEU	LEU	LEU	LEU	L310	S375	D437	V498	ASN
PRO	LEU	PRO	LEU	LEU	LEU	LEU	N308	D376	L438	L499	SER
PRO	LEU	PRO	LEU	LEU	LEU	LEU	E309	S377	G439	E500	GLY
PRO	LEU	PRO	LEU	LEU	LEU	LEU	L310	V378	A440	K501	PHE
PRO	LEU	PRO	LEU	LEU	LEU	LEU	A316	N379	L441	F502	GLY
PRO	LEU	PRO	LEU	LEU	LEU	LEU	P317	G380	Y442	R503	GLY
PRO	LEU	PRO	LEU	LEU	LEU	LEU	G318	K381	S443	R503	ASP
PRO	LEU	PRO	LEU	LEU	LEU	LEU	Q323	M382	Q444	K504	ASP
PRO	LEU	PRO	LEU	LEU	LEU	LEU	L325	L384	M445	L505	LYS
PRO	LEU	PRO	LEU	LEU	LEU	LEU	V324	L384	F446	L506	TRP
PRO	LEU	PRO	LEU	LEU	LEU	LEU	L325	S385	Q447	D507	GLY
PRO	LEU	PRO	LEU	LEU	LEU	LEU	PRO	L386	L448	E508	ALA
PRO	LEU	PRO	LEU	LEU	LEU	LEU	LYS	L448	L448	L509	ALA
PRO	LEU	PRO	LEU	LEU	LEU	LEU	LYS	K387	K449	D510	GLU
PRO	LEU	PRO	LEU	LEU	LEU	LEU	LYS	D388	Y450	V511	THR
PRO	LEU	PRO	LEU	LEU	LEU	LEU	GLN	V389	K451	P512	LYS
PRO	LEU	PRO	LEU	LEU	LEU	LEU	ASN	M452	M452	A513	ILE
PRO	LEU	PRO	LEU	LEU	LEU	LEU	LEU	V453	V453	Q514	ASN
PRO	LEU	PRO	LEU	LEU	LEU	LEU	GLU	E454	E454	Q514	LEU
PRO	LEU	PRO	LEU	LEU	LEU	LEU	SER	F455	F455	Q515	PRO
PRO	LEU	PRO	LEU	LEU	LEU	LEU	GLY	R457	R457	M516	ILE
PRO	LEU	PRO	LEU	LEU	LEU	LEU	GLY	L395	L395	M517	THR
PRO	LEU	PRO	LEU	LEU	LEU	LEU	VAL	D396	S458	ILE	ALA
PRO	LEU	PRO	LEU	LEU	LEU	LEU	ASN	L397	I459	GLU	ALA
PRO	LEU	PRO	LEU	LEU	LEU	LEU	ASN	V398	L460	ALA	ALA
PRO	LEU	PRO	LEU	LEU	LEU	LEU	ALA	M399	R461	ASN	ASN
PRO	LEU	PRO	LEU	LEU	LEU	LEU	ALA	Q400	L462	SER	ASN
PRO	LEU	PRO	LEU	LEU	LEU	LEU	PRO	ILE	D462	ILE	SER
PRO	LEU	PRO	LEU	LEU	LEU	LEU	LYS	VAL	D463	VAL	ILE
PRO	LEU	PRO	LEU	LEU	LEU	LEU	THR	ALA	M464	THR	ILE
PRO	LEU	PRO	LEU	LEU	LEU	LEU	THR	ALA	M465	SER	ILE
PRO	LEU	PRO	LEU	LEU	LEU	LEU	THR	ALA	A465	THR	ILE
PRO	LEU	PRO	LEU	LEU	LEU	LEU	THR	ALA	D466	VAL	ILE
PRO	LEU	PRO	LEU	LEU	LEU	LEU	THR	ALA	L404	VAL	ILE
PRO	LEU	PRO	LEU	LEU	LEU	LEU	THR	ALA	T467	ARG	ILE
PRO	LEU	PRO	LEU	LEU	LEU	LEU	THR	ALA	D405	ALA	ILE
PRO	LEU	PRO	LEU	LEU	LEU	LEU	THR	ALA	M406	GLY	ILE
PRO	LEU	PRO	LEU	LEU	LEU	LEU	THR	ALA	R407	PHE	ILE
PRO	LEU	PRO	LEU	LEU	LEU	LEU	THR	ALA	Q408	SER	SER
PRO	LEU	PRO	LEU	LEU	LEU	LEU	THR	ALA	Q409	ARG	SER
PRO	LEU	PRO	LEU	LEU	LEU	LEU	THR	ALA	N472	ASP	GLY

ALA	L277	F352	V413	L474	GLY	LEU	LEU	ILE
PRO	D278	Q353	M414	I475	VAL	ASN	GLY	TYR
ALA	V279	D354	I415	S476	LYS	LEU	ILE	GLU
LYS	F282	V355	A416	G477	PHE	GLU	THR	GLU
GLN	K283	E356	P417	R478	GLY	LEU	VAL	ASP
GLN	T284	I357	R418	G479	ALA	SER	THR	ASN
ALA	T285	R358	D419	S480	THR	ALA	PRO	GLY
ALA	V286	T359	E420	V481	GLY	SER	ASN	ASN
ALA	P285	I360	E421	L482	GLY	ALA	ILE	THR
PRO	V286	L361	L421	I483	LYS	GLU	ILE	THR
ALA	L291	Q362	L422	T484	LYS	SER	THR	THR
ALA	K292	Q363	A423	D484	LYS	LEU	PRO	THR
LYS	R293	L364	K424	P485	LEU	SER	ASP	THR
GLN	L294	L364	D425	A486	LYS	LYS	GLY	VAL
ALA	N295	A365	F428	T487	ASN	THR	GLN	PRO
ALA	N296	K366	F428	M488	ASP	LYS	ILE	LEU
ALA	N296	E367	L429	T489	THR	LYS	ILE	LEU
ALA	Q299	S368	Q430	M489	THR	THR	ILE	LEU
PRO	L300	G369	A431	L490	SER	LEU	MET	GLY
ALA	I301	M370	F432	I491	ALA	ALA	VAL	ASP
LYS	I302	M371	K433	V492	PHE	ASN	VAL	ILE
GLN	N307	M371	D494	T493	GLY	PRO	PRO	PRO
N226	N307	I372	G494	D494	TRP	ARG	ILE	VAL
N227	N307	V373	T435	T495	GLY	VAL	ILE	ASN
I228	W308	A374	I435	T495	GLY	VAL	ILE	ASN
D229	E309	S375	D437	R496	VAL	LEU	LYS	GLY
F230	E309	D376	A438	S497	ASN	THR	ASP	ASN
R231	L310	S377	G439	L499	GLY	ASN	PRO	PHE
K232	A316	V378	A440	E500	PHE	ALA	ALA	LYS
D233	P317	G380	L441	E500	GLY	ARG	LYS	THR
A237	G318	K381	Y442	F502	ALA	GLU	TYR	THR
G238	G318	M382	Q444	R503	ALA	ALA	GLY	ARG
I239	Q323	T383	Q445	K504	ASP	LYS	GLY	LYS
I240	V324	L384	Q445	L505	LYS	ILE	LYS	THR
E241	L325	S385	F446	L506	THR	ASN	THR	THR
L242	PRO	L386	Q447	D507	GLY	GLN	ASP	ASP
A243	LYS	L386	L448	E508	ALA	THR	THR	THR
A244	LYS	K387	K449	L509	GLU	TYR	ARG	ARG
L245	GLN	D388	Y450	D510	THR	LEU	GLU	ARG
G249	ASN	V389	K451	V511	LYS	ILE	ALA	ALA
S254	LEU	P390	M452	M452	ILE	PRO	PHE	ILE
Q255	GLY	D392	V453	V453	ILE	ILE	ILE	ILE
Q256	VAL	D392	E454	Q514	LEU	THR	THR	THR
H257	ASN	D392	E455	Q514	LEU	THR	THR	THR
D258	ASN	L397	F456	V516	THR	ASN	THR	THR
H259	ALA	D396	R457	M517	ILE	THR	PRO	PRO
I260	ALA	L396	R457	M517	THR	ASP	ASP	ASP
I261	PRO	D396	S458	ILE	THR	ASN	ASP	ASP
I261	LYS	D396	I459	GLU	ALA	GLN	GLN	GLN
L261	LYS	D396	L460	THR	ALA	VAL	VAL	VAL
K265	THR	D396	L461	ARG	GLY	SER	SER	SER
L269	THR	D396	L466	ASP	VAL	GLN	GLN	GLN
L269	THR	D396	T467	THR	ARG	ALA	ALA	ALA
K346	THR	D396	T468	THR	THR	VAL	VAL	VAL
K347	THR	D396	G469	THR	THR	LYS	LYS	LYS
I348	THR	D396	M470	THR	THR	ALA	ALA	ALA
I348	THR	D396	R471	THR	THR	ALA	ALA	ALA
S349	THR	D396	M472	THR	THR	ALA	ALA	ALA
L350	THR	D396	T473	THR	THR	ALA	ALA	ALA
S276	THR	D396	T473	THR	THR	ALA	ALA	ALA

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

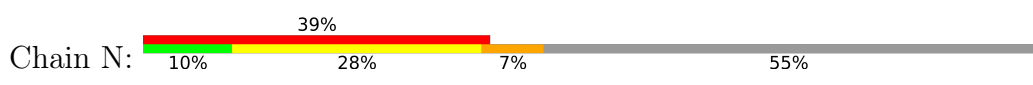
Chain K: 9% 25% 63%

GLY	L277	F352	V413	L474	GLY	LEU	LEU	ILE
ASN	D278	Q353	M414	I475	VAL	ASN	GLY	TYR
THR	V279	D354	I415	S476	LYS	LEU	ILE	GLU
ILE	F282	V355	A416	G477	PHE	GLU	THR	GLU
ASP	K283	E356	P417	R478	GLY	LEU	VAL	ASP
LYS	T284	I357	R418	G479	ALA	SER	THR	ASN
VAL	T285	R358	D419	S480	THR	ALA	PRO	GLY
ALA	V286	T359	E420	V481	GLY	SER	ASN	ASN
ALA	P285	I360	E421	L482	GLY	ALA	ILE	THR
ALA	L291	Q362	L421	I483	LYS	GLU	ILE	THR
ALA	K292	Q363	A423	D484	LYS	SER	THR	THR
LYS	R293	L364	K424	P485	LEU	SER	ASP	THR
GLN	L294	L364	D425	A486	LYS	LYS	GLY	VAL
ALA	N295	A365	F428	T487	ASN	THR	GLN	PRO
ALA	N296	K366	F428	M488	ASP	LYS	ILE	LEU
ALA	N296	E367	L429	T489	THR	LYS	ILE	LEU
ALA	Q299	S368	Q430	M489	THR	THR	ILE	LEU
ALA	L300	G369	A431	L490	SER	LEU	MET	GLY
ALA	I301	M370	F432	I491	ALA	ALA	VAL	ASP
LYS	I302	M371	K433	V492	PHE	ASN	VAL	ILE
GLN	N307	M371	D494	T493	GLY	PRO	PRO	PRO
N226	N307	I372	G494	D494	TRP	ARG	ILE	VAL
N227	N307	V373	T435	T495	GLY	VAL	ILE	ASN
I228	W308	A374	I435	T495	GLY	VAL	ILE	ASN
D229	E309	S375	D437	R496	VAL	LEU	LYS	GLY
F230	E309	D376	A438	S497	ASN	THR	ASP	ASN
R231	L310	S377	G439	L499	GLY	ASN	PRO	PHE
K232	A316	V378	A440	E500	PHE	ALA	ALA	LYS
D233	P317	G380	L441	E500	GLY	ARG	LYS	THR
A237	G318	K381	Y442	F502	ALA	GLU	TYR	THR
G238	G318	M382	Q444	R503	ALA	ALA	GLY	ARG
I239	Q323	T383	Q445	K504	ASP	LYS	GLY	LYS
I240	V324	L384	Q445	L505	LYS	ILE	LYS	THR
E241	L325	S385	F446	L506	THR	ASN	THR	THR
L242	PRO	L386	Q447	D507	GLY	GLN	ASP	ASP
A243	LYS	L386	L448	E508	ALA	THR	THR	THR
A244	LYS	K387	K449	L509	GLU	TYR	ARG	ARG
L245	GLN	D388	Y450	D510	THR	LEU	GLU	ARG
G249	ASN	V389	K451	V511	LYS	ILE	ALA	ALA
S254	LEU	P390	M452	M452	ILE	PRO	PHE	ILE
Q255	GLY	D392	V453	V453	ILE	ILE	ILE	ILE
Q256	VAL	D392	E454	Q514	LEU	THR	THR	THR
H257	ASN	D392	F456	V516	THR	ASN	THR	THR
D258	ALA	D396	R457	M517	ILE	THR	PRO	PRO
H259	ALA	L397	R457	M517	THR	ASP	ASP	ASP
I260	ALA	D396	S458	ILE	THR	ASN	ASP	ASP
I261	PRO	D396	I459	GLU	ALA	GLN	GLN	GLN
I261	LYS	D396	L460	THR	ALA	VAL	VAL	VAL
L261	LYS	D396	L461	ARG	GLY	SER	SER	SER
K265	THR	D396	L466	ASP	VAL	GLN	GLN	GLN
L269	THR	D396	T467	THR	ARG	ALA	ALA	ALA
L269	THR	D396	T468	THR	THR	VAL	VAL	VAL
K346	THR	D396	T468	THR	THR	LYS	LYS	LYS
K347	THR	D396	G469	THR	THR	ALA	ALA	ALA
I348	THR	D396	M470	THR	THR	ALA	ALA	ALA
I348	THR	D396	R471	THR	THR	ALA	ALA	ALA
S349	THR	D396	M472	THR	THR	ALA	ALA	ALA
L350	THR	D396	T473	THR	THR	ALA	ALA	ALA
S276	THR	D396	T473	THR	THR	ALA	ALA	ALA



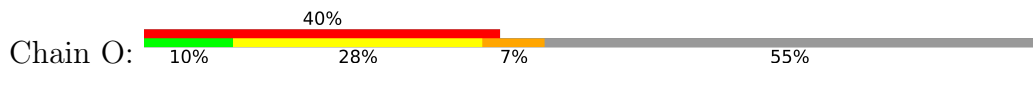
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ASN	ALA	PHE	ASP	PHE	ALA	ARG	ARG	MET	GLU	THR	ASP	LYS	LYS	GLY	ASN	PRO	ALA	ASP	THR	LYS	ARG	ILE	K84	E85	T86	L87	E88	K89	F90	S91	L92	E93	N94	M95	R96	T151	Y97	V98	G99	I100	L101	K102	S103	G104	Q105	K106	V107	S108	G109	F110	I111	A113	E114	G115	Y116	V117	Y118	T119	V120					
G121	V122	G123	N124	Y125	L126	G127	Q128	N129	Y130	G131	R132	I133	E134	S135	I136	T137	D138	D139	S140	I141	V142	L143	N144	E145	L146	I147	E148	D149	S150	T151	G152	N153	W154	V155	S156	R157	K158	A159	E160	L161	L162	L163	N164	S165	SER	ASP	LYS	ASN	THR	GLN	ALA	ALA	ALA	PRO	ALA	ALA	GLU	GLN	GLY	PRO				

• Molecule 2: PILP PROTEIN



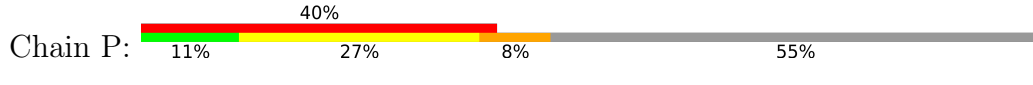
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ASN	ALA	PHE	ASP	PHE	ALA	ARG	ARG	MET	GLU	THR	ASP	LYS	LYS	GLY	ASN	PRO	ALA	ASP	THR	LYS	ARG	ILE	K84	E85	T86	L87	E88	K89	F90	S91	L92	E93	N94	M95	R96	Y97	V98	G99	I100	L101	K102	S103	G104	Q105	K106	V107	S108	G109	F110	I111	E112	A113	E114	G115	Y116	V117	Y118	T119	V120					
G121	V122	G123	N124	Y125	L126	G127	Q128	N129	Y130	G131	R132	I133	E134	S135	I136	T137	D138	D139	S140	I141	V142	L143	N144	E145	L146	I147	E148	D149	S150	T151	G152	N153	W154	V155	S156	R157	K158	A159	E160	L161	L162	L163	N164	S165	SER	ASP	LYS	ASN	THR	GLN	ALA	ALA	ALA	PRO	ALA	ALA	GLU	GLN	GLY	PRO				

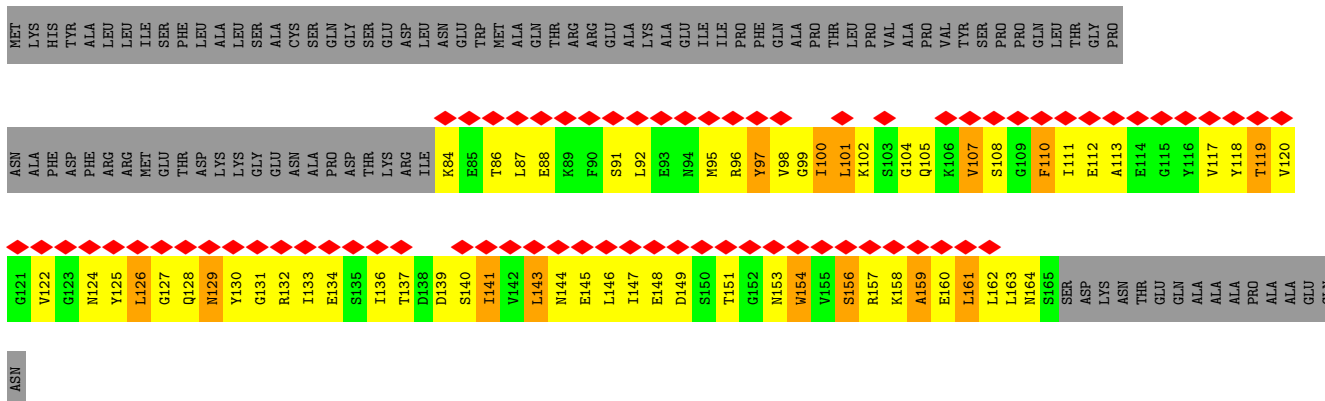
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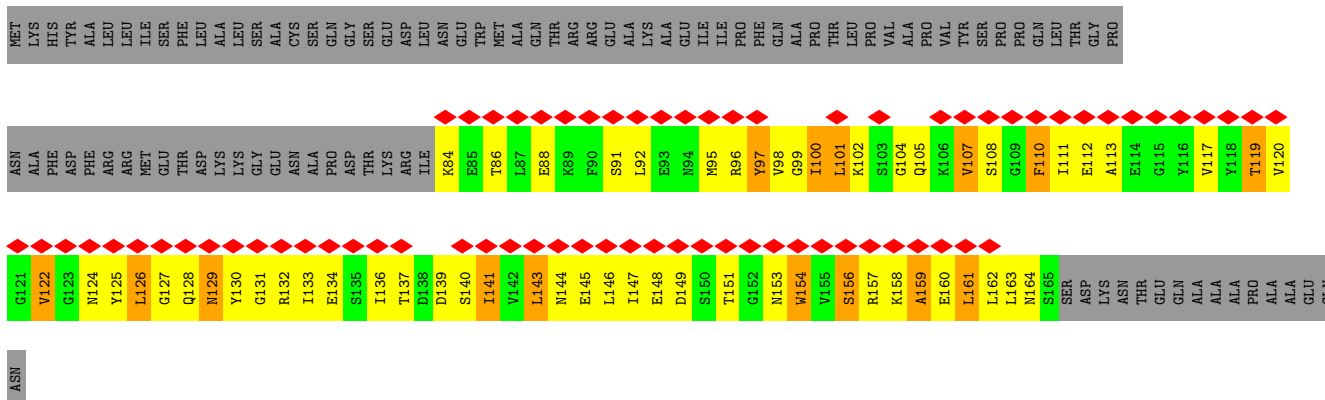
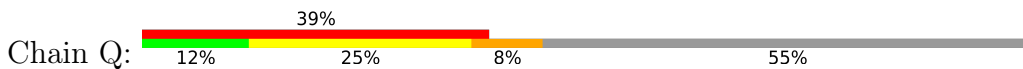
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ASN	ALA	PHE	ASP	PHE	ALA	ARG	ARG	MET	GLU	THR	ASP	LYS	LYS	GLY	ASN	PRO	ALA	ASP	THR	LYS	ARG	ILE	K84	E85	T86	L87	E88	K89	F90	S91	L92	E93	N94	M95	R96	Y97	V98	G99	I100	L101	K102	S103	G104	Q105	K106	V107	S108	G109	F110	I111	E112	A113	E114	G115	Y116	V117	Y118	T119	V120					
G121	V122	G123	N124	Y125	L126	G127	Q128	N129	Y130	G131	R132	I133	E134	S135	I136	T137	D138	D139	S140	I141	V142	L143	N144	E145	L146	I147	E148	D149	S150	T151	G152	N153	W154	V155	S156	R157	K158	A159	E160	L161	L162	L163	N164	S165	SER	ASP	LYS	ASN	THR	GLN	ALA	ALA	ALA	PRO	ALA	ALA	GLU	GLN	GLY	PRO				

• Molecule 2: PILP PROTEIN

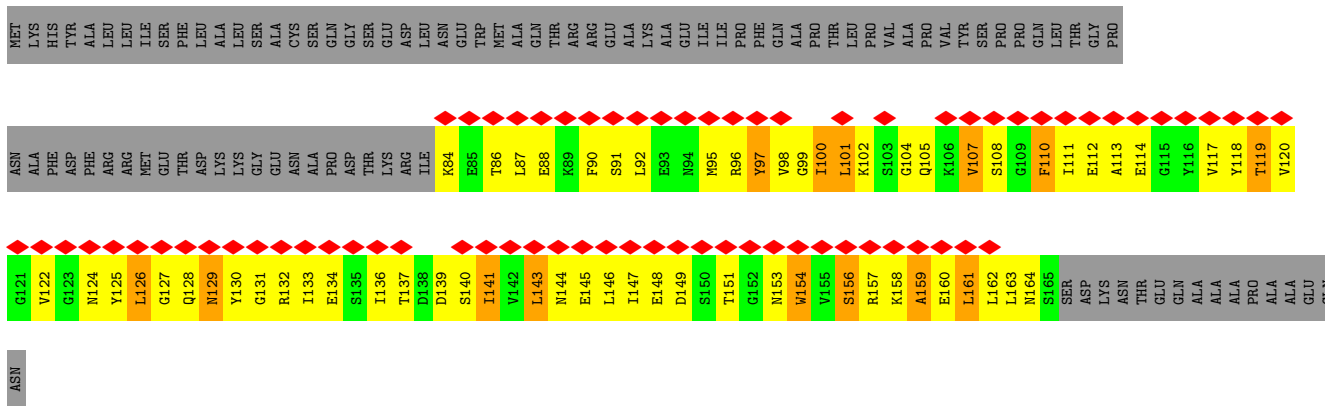
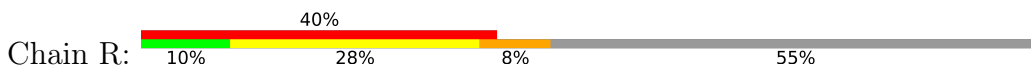




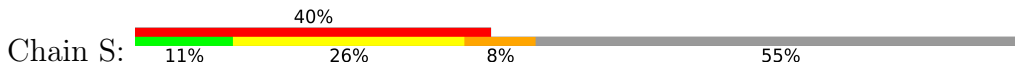
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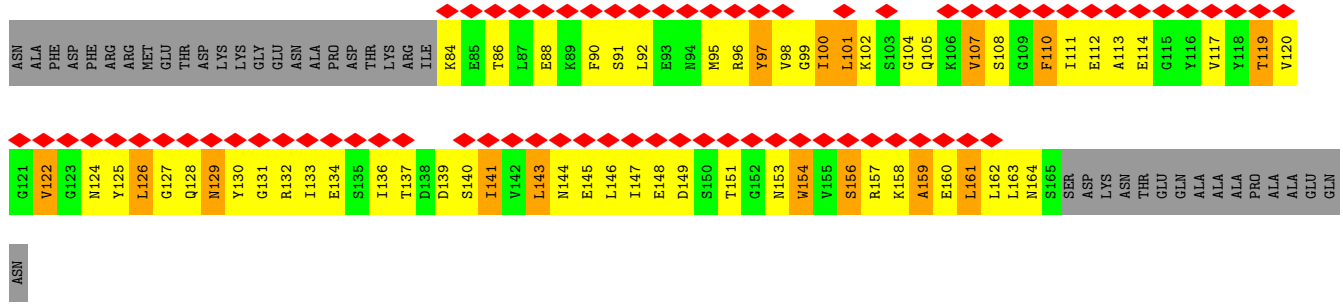


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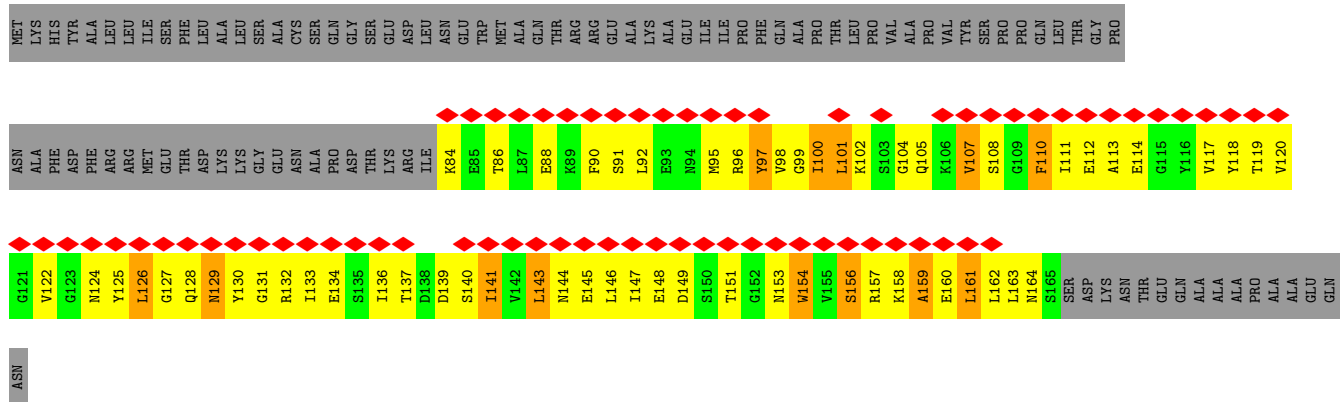
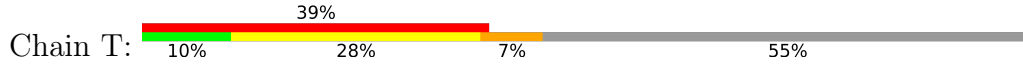


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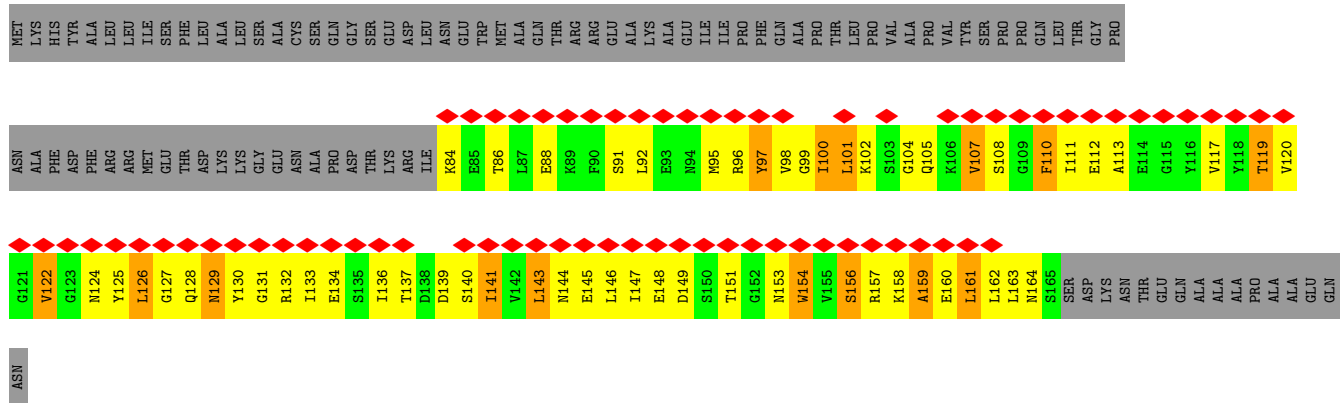
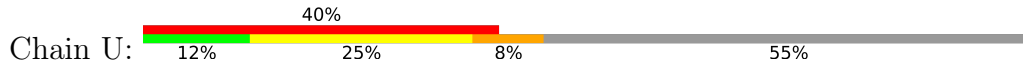




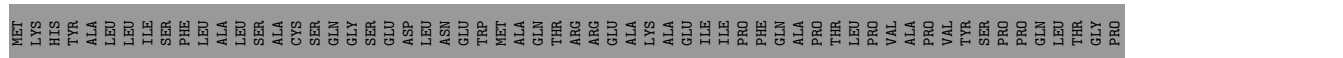
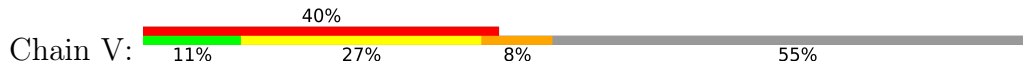
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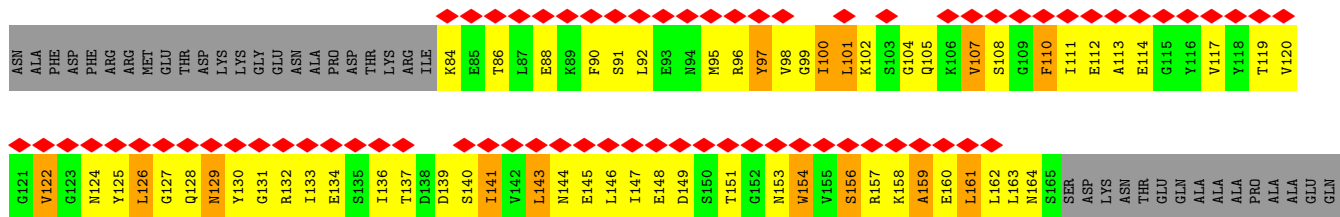


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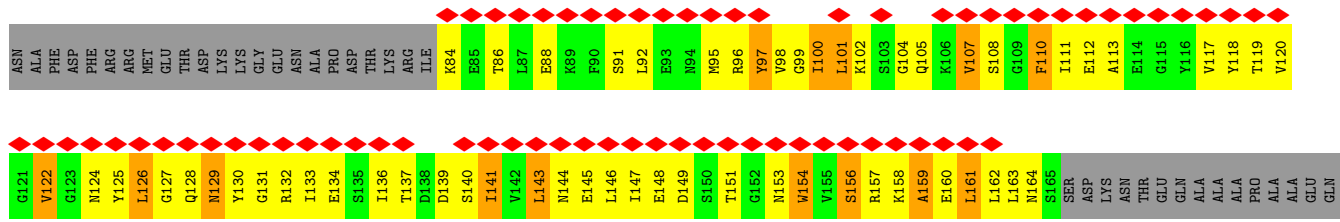
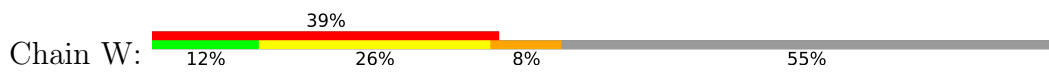
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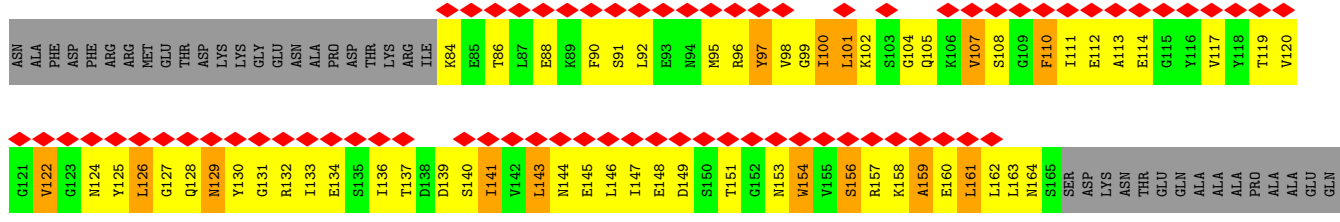
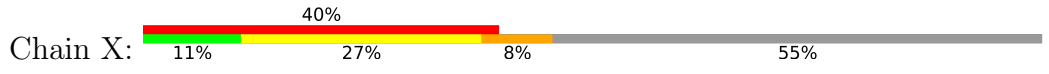
ASN

• Molecule 2: PILP PROTEIN



ASN

• Molecule 2: PILP PROTEIN



ASN

4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, C12	Depositor
Number of particles used	25303	Depositor
Resolution determination method	Not provided	
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 ULTRASCAN 4000 (4k x 4k)	Depositor
Maximum map value	0.346	Depositor
Minimum map value	-0.113	Depositor
Average map value	0.095	Depositor
Map value standard deviation	0.065	Depositor
Recommended contour level	0.28	Depositor
Map size (\AA)	289.92, 289.92, 289.92	wwPDB
Map dimensions	64, 64, 64	wwPDB
Map angles ($^\circ$)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (\AA)	4.53, 4.53, 4.53	Depositor

5 Model quality i

5.1 Standard geometry i

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
1	A	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:H:347:LYS:NZ	2:T:104:GLY:HA2	1.29	1.40
1:J:347:LYS:NZ	2:V:104:GLY:HA2	1.30	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:B:347:LYS:NZ	2:N:104:GLY:HA2	1.29	1.39
1:D:347:LYS:NZ	2:P:104:GLY:HA2	1.30	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:F:343:PHE:HB2	1:G:469:GLY:CA	1.56	1.36
1:K:343:PHE:HB2	1:L:469:GLY:CA	1.56	1.36
1:C:343:PHE:HB2	1:D:470:ASN:N	1.39	1.35
1:A:470:ASN:N	1:L:343:PHE:HB2	1.39	1.35
1:I:343:PHE:HB2	1:J:469:GLY:CA	1.56	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: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:B:343:PHE:HB2	1:C:470:ASN:N	1.39	1.35
1:C:343:PHE:HB2	1:D:469:GLY:CA	1.56	1.35
1:G:343:PHE:CB	1:H:470:ASN:H	1.39	1.35
1:D:343:PHE:HB2	1:E:469:GLY:CA	1.56	1.34
1:E:343:PHE:CB	1:F:470:ASN:H	1.39	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:B:343:PHE:CB	1:C:470:ASN:H	1.39	1.33
1:C:447:GLN:CG	1:D:508:GLU:OE2	1.76	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:A:470:ASN:H	1:L:343:PHE:CB	1.39	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: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:396:ASP:OD1	1:B:467:THR:CG2	1.78	1.32
1:A:467:THR:CG2	1:L:396:ASP:OD1	1.78	1.32
1:B:396:ASP:OD1	1:C:467:THR:CG2	1.78	1.31
1:A:229:ASP:OD1	1:L:261:ILE:HG12	1.29	1.31
1:A:508:GLU:OE2	1:L:447:GLN:CG	1.76	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:K:396:ASP:OD1	1:L: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:261:ILE:HG12	1:B:229:ASP:OD1	1.29	1.30
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:G:447:GLN:CG	1:H:508:GLU:OE2	1.77	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:H:396:ASP:OD1	1:I: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:H:295:ASN:H	1:I:273:LEU:CD2	1.45	1.29
1:J:343:PHE:CB	1:K:470:ASN:N	1.93	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: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: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:H	1:C:273:LEU:CD2	1.45	1.27
1:I:295:ASN:H	1:J: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:A:295:ASN:H	1:B:273:LEU:CD2	1.45	1.26
1:B:261:ILE:HG21	1:C:229:ASP:OD2	1.08	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:A:343:PHE:HB2	1:B:469:GLY:C	1.55	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:E:261:ILE:HG12	1:F:229:ASP:OD1	1.29	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:H:343:PHE:HB2	1:I:469:GLY:C	1.56	1.23
1:I:343:PHE:HB2	1:J:469:GLY:C	1.56	1.23
1:J:343:PHE:HB2	1:K:469:GLY:C	1.55	1.23
1:A:470:ASN:N	1:L:343:PHE:CB	1.93	1.23
1:G:343:PHE:HB2	1:H:469:GLY:C	1.55	1.23
1:A:469:GLY:C	1:L:343:PHE:HB2	1.56	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: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:E:406:MET:SD	1:F:468:THR:HG21	1.81	1.21
1:G:406:MET:SD	1:H: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:B:447:GLN:HG3	1:C:508:GLU:OE2	1.42	1.19
1:C:424:LYS:HE2	1:C:441:LEU:HD12	1.22	1.19
1:A:293:ARG:NH1	1:B:272:THR:HG21	1.55	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: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: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:K:387:LYS:HB3	2:W:102:LYS:HD3	1.23	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:H:261:ILE:CG2	1:I:229:ASP:OD2	1.91	1.17
1:I:261:ILE:CG2	1:J:229:ASP:OD2	1.92	1.17
1:C:447:GLN:HG3	1:D:508:GLU:OE2	1.42	1.16
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:E:418:ARG:HD2	1:E:481:VAL:HB	1.26	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: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: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:B:294:LEU:HG	1:C:273:LEU:CD2	1.75	1.16

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:343:PHE:HB2	1:E:469:GLY:HA2	1.21	1.16
1:E:354:ASP:H	1:E:383:THR:HG22	1.10	1.16
1:H:299:GLN:HE21	1:I:227:ASN:ND2	1.43	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: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: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:E:424:LYS:HE2	1:E:441:LEU:HD12	1.22	1.14
1:F:294:LEU:HG	1:G:273:LEU:CD2	1.75	1.14
1:F:354:ASP:H	1:F:383:THR:HG22	1.09	1.14
1:A:227:ASN:ND2	1:L:299:GLN:HE21	1.43	1.14
1:L:387:LYS:HB3	2:X:102:LYS:HD3	1.23	1.14
1:J:447:GLN:CD	1:K: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:K:447:GLN:CD	1:L:508:GLU:OE2	1.86	1.14
1:D:404:LEU:HD12	1:D:417:PRO:HA	1.13	1.13
1:C:294:LEU:HG	1:D:273:LEU:CD2	1.75	1.13
1:E:404:LEU:HD12	1:E:417:PRO:HA	1.13	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:A:404:LEU:HD12	1:A:417:PRO:HA	1.13	1.13
1:K:343:PHE:CB	1:L:469:GLY:HA2	1.79	1.13
1:A:508:GLU:OE2	1:L:447:GLN:HG3	1.42	1.13
1:A:508:GLU:OE2	1:L:447:GLN:CD	1.86	1.13

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
1:G:424:LYS:HE2	1:G:441:LEU:HD12	1.22	1.13
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:469:GLY:HA2	1:L:343:PHE:CB	1.79	1.13
1:A:343:PHE:HB2	1:B:469:GLY:HA2	1.21	1.12
1:B:404:LEU:HD12	1:B:417:PRO:HA	1.13	1.12
1:A:387:LYS:HB3	2:M:102:LYS:HD3	1.23	1.12
1:C:404:LEU:HD12	1:C:417:PRO:HA	1.13	1.12
1:D:424:LYS:HE2	1:D:441:LEU:HD12	1.22	1.12
1:H:343:PHE:CB	1:I:469:GLY:HA2	1.79	1.12
1:L:424:LYS:HE2	1:L:441:LEU:HD12	1.22	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:F:256:GLN:HE22	1:G:231:ARG:HD2	0.97	1.12
1:G:256:GLN:HE22	1:H:231:ARG:HD2	0.97	1.12
1:G:354:ASP:H	1:G:383:THR:HG22	1.09	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:D:447:GLN:HG3	1:E:508:GLU:OE2	1.42	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:388:ASP:O	1:L:376:ASP:OD2	1.68	1.12
1:K:447:GLN:HG3	1:L:508:GLU:OE2	1.42	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:A:469:GLY:HA2	1:L:343:PHE:HB2	1.21	1.12
1:C:294:LEU:HD21	1:D:227:ASN:CB	1.80	1.12
1:D:294:LEU:HD21	1:E:227:ASN:CB	1.80	1.12
1:E:294:LEU:HG	1:F:273:LEU:HD22	1.13	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: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:I:424:LYS:HE2	1:I:441:LEU:HD12	1.22	1.12
1:L:404:LEU:HD12	1:L:417:PRO:HA	1.13	1.12
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
1:H:265:LYS:HE3	1:I:245:LEU:CD2	1.55	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: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: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:H:343:PHE:HB2	1:I:469:GLY:HA2	1.21	1.11
1:H:447:GLN:CD	1:I:508:GLU:OE2	1.86	1.11
1:I:388:ASP:O	1:J:376:ASP:OD2	1.68	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: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: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: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: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:C:343:PHE:HB2	1:D:469:GLY:HA2	1.21	1.11
1:C:343:PHE:CB	1:D:469:GLY:HA2	1.79	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:G:418:ARG:HD2	1:G:481:VAL:HB	1.26	1.11
1:G:447:GLN:HG3	1:H:508:GLU:OE2	1.42	1.11
1:D:343:PHE:CB	1:E:469:GLY:HA2	1.79	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: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:I:299:GLN:NE2	1:J:227:ASN:HD21	1.49	1.11
1:K:343:PHE:HB2	1:L:469:GLY:HA2	1.21	1.11
1:A:299:GLN:NE2	1:B:227:ASN:HD21	1.49	1.10
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:D:256:GLN:NE2	1:E:231:ARG:HD2	1.64	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
1:F:389:VAL:HG22	1:G:376:ASP:CG	1.71	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:231:ARG:HD2	1:L:256:GLN:NE2	1.64	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:256:GLN:NE2	1:B:231:ARG:HD2	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:C:299:GLN:NE2	1:D:227:ASN:HD21	1.49	1.10
1:F:343:PHE:HB2	1:G:469:GLY:HA2	1.21	1.10
1:H:388:ASP:O	1:I:376:ASP:OD2	1.68	1.10
1:H:424:LYS:HE2	1:H:441:LEU:HD12	1.22	1.10
1:I:343:PHE:HB2	1:J:469:GLY:HA2	1.21	1.10
1:K:299:GLN:NE2	1:L:227:ASN:HD21	1.49	1.10
1:K:404:LEU:HD12	1:K:417:PRO:HA	1.13	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:D:256:GLN:HE22	1:E:231:ARG:HD2	0.97	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: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: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: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: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: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: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:J:256:GLN:NE2	1:K:231:ARG:HD2	1.64	1.10
1:K:354:ASP:H	1:K:383:THR:HG22	1.10	1.10
1:A:227:ASN:HD21	1:L:299:GLN:NE2	1.49	1.09

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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:424:LYS:HB2	1:E:441:LEU:HD13	1.35	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
1:J:294:LEU:HD21	1:K:227:ASN:HB2	1.26	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:354:ASP:H	1:J:383:THR:HG22	1.09	1.08
1:J:465:ALA:HB2	1:J:475:ILE:HD11	1.30	1.08
1:A:376:ASP:CG	1:L:389:VAL:HG22	1.71	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:C:294:LEU:HD21	1:D:227:ASN:HB2	1.26	1.08
1:F:349:SER:OG	2:R:102:LYS:HG2	1.54	1.08
1:I:447:GLN:HG3	1:J:508:GLU:OE2	1.42	1.08
1:L:465:ALA:HB2	1:L:475:ILE:HD11	1.30	1.08
1:E:293:ARG:HH12	1:F:272:THR:HG21	1.07	1.08
1:E:349:SER:OG	2:Q:102:LYS:HG2	1.54	1.08
1:H:293:ARG:HH12	1:I:272:THR:HG21	1.07	1.08
1:I:424:LYS:HB2	1:I:441:LEU:HD13	1.35	1.08
1:J:256:GLN:HE22	1:K:231:ARG:HD2	0.97	1.08
1:J:447:GLN:HG3	1:K:508:GLU:OE2	1.42	1.08
1:B:293:ARG:HH12	1:C:272:THR:HG21	1.07	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:A:389:VAL:HG22	1:B:376:ASP:CG	1.71	1.08
1:C:396:ASP:CG	1:D:467:THR:HG21	1.74	1.08
1:C:424:LYS:HB2	1:C:441:LEU:HD13	1.35	1.08
1:D:396:ASP:CG	1:E:467:THR:HG21	1.74	1.08
1:E:396:ASP:CG	1:F: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:B:349:SER:OG	2:N:102:LYS:HG2	1.54	1.07
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:C:396:ASP:OD2	1:D:467:THR:HG21	1.55	1.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:388:ASP:O	1:G:376:ASP:OD2	1.68	1.07
1:G:349:SER:OG	2:S:102:LYS:HG2	1.54	1.07
1:K:265:LYS:HE3	1:L:245:LEU:CD2	1.55	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:J:424:LYS:HB2	1:J:441:LEU:HD13	1.35	1.07
1:B:396:ASP:CG	1:C:467:THR:HG21	1.74	1.07
1:B:424:LYS:HB2	1:B:441:LEU:HD13	1.35	1.07
1:D:349:SER:OG	2:P:102:LYS:HG2	1.54	1.07
1:G:465:ALA:HB2	1:G:475:ILE:HD11	1.30	1.07
1:K:396:ASP:OD1	1:L:467:THR:HG22	1.55	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: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:231:ARG:HD2	1:L:256:GLN:HE22	0.97	1.06
1:B:396:ASP:OD2	1:C:467:THR:HG21	1.55	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:L:349:SER:OG	2:X:102:LYS:HG2	1.54	1.06
1:A:396:ASP:OD1	1:B:467:THR:HG22	1.55	1.06
1:A:467:THR:HG21	1:L:396:ASP:CG	1.74	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:J:396:ASP:CG	1:K:467:THR:HG21	1.74	1.06
1:K:294:LEU:HG	1:L:273:LEU:HD22	1.13	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:396:ASP:CG	1:B:467:THR:HG21	1.74	1.06
1:A:424:LYS:HB2	1:A:441:LEU:HD13	1.35	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:A:349:SER:OG	2:M:102:LYS:HG2	1.54	1.06
1:C:349:SER:OG	2:O:102:LYS:HG2	1.54	1.06
1:I:349:SER:OG	2:U:102:LYS:HG2	1.54	1.05
1:B:295:ASN:H	1:C:273:LEU:HD21	1.04	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:349:SER:OG	2:V:102:LYS:HG2	1.54	1.05
1:H:396:ASP:OD1	1:I:467:THR:HG22	1.55	1.05
1:I:396:ASP:OD2	1:J:467:THR:HG21	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:C:295:ASN:H	1:D:273:LEU:HD21	1.04	1.05
1:G:396:ASP:OD2	1:H:467:THR:HG21	1.55	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:A:245:LEU:CD2	1:L:265:LYS:HE3	1.55	1.04
1:F:396:ASP:OD2	1:G:467:THR:HG21	1.55	1.04
1:J:343:PHE:CB	1:K:469:GLY:CA	2.36	1.04
1:A:231:ARG:CD	1:L:256:GLN:HE22	1.72	1.03
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:256:GLN:HE22	1:B:231:ARG:CD	1.72	1.03
1:C:256:GLN:HE22	1:D:231:ARG:CD	1.72	1.03
1:K:343:PHE:CB	1:L:469:GLY:CA	2.36	1.03
1:A:467:THR:HG22	1:L:396:ASP:OD1	1.55	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:H:343:PHE:CB	1:I:469:GLY:CA	2.36	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: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: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:C:295:ASN:N	1:D:273:LEU:CD2	2.13	1.02
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: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:256:GLN:HE22	1:H:231:ARG:CD	1.72	1.02
1:G:343:PHE:CB	1:H:469:GLY:CA	2.36	1.02
1:I:343:PHE:CB	1:J:469:GLY:CA	2.36	1.02
1:J:396:ASP:OD2	1:K:467:THR:HG21	1.55	1.02
1:G:343:PHE:CD1	1:H:469:GLY:HA2	1.95	1.02
1:I:293:ARG:HH12	1:J:272:THR:HG21	1.07	1.02
1:A:343:PHE:CB	1:B:469:GLY:CA	2.36	1.02
1:B:396:ASP:OD1	1:C:467:THR:HG22	1.55	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:CA	1:L:343:PHE:CB	2.36	1.02
1:A:469:GLY:HA2	1:L:343:PHE:CD1	1.95	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:B:343:PHE:CB	1:C:469:GLY:CA	2.36	1.01
1:E:343:PHE:CD1	1:F:469:GLY:HA2	1.95	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: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:I:343:PHE:CD1	1:J:469:GLY:HA2	1.95	1.00
1:J:396:ASP:CG	1:K: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:I:396:ASP:CG	1:J:467:THR:CG2	2.30	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:A:229:ASP:CG	1:L:261:ILE:HG12	1.82	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: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:343:PHE:CB	1:D:469:GLY:CA	2.36	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: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:A:347:LYS:HZ2	2:M:104:GLY:HA2	1.17	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:376:ASP:CG	1:L:389:VAL:CG2	2.31	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: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:A:273:LEU:CD2	1:L:295:ASN:N	2.13	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:C:347:LYS:HZ1	2:O:104:GLY:HA2	1.16	0.97
1:E:299:GLN:NE2	1:F:227:ASN:ND2	2.09	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:E:347:LYS:HZ1	2:Q:104:GLY:HA2	1.19	0.97
1:J:347:LYS:NZ	2:V:104:GLY:CA	2.26	0.97
1:D:373:VAL:HG21	1:D:412:ILE:HD11	1.43	0.96
1:B:347:LYS:HZ1	2:N:104:GLY:HA2	1.18	0.96
1:K:299:GLN:NE2	1:L:227:ASN:ND2	2.09	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:B:347:LYS:HZ2	2:N:104:GLY:HA2	1.16	0.94
1:H:294:LEU:CG	1:I:273:LEU:HD22	1.97	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:A:273:LEU:CD2	1:L:294:LEU:CG	2.45	0.94
1:K:295:ASN:N	1:L:273:LEU:CD2	2.13	0.94
1:A:347:LYS:HZ1	2:M:104:GLY:HA2	1.16	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:T:95:MET:HG2	2:T:113:ALA:HB2	1.49	0.94
2:X:95:MET:HG2	2:X:113:ALA:HB2	1.49	0.94
1:H:294:LEU:CG	1:I:273:LEU:CD2	2.45	0.94
1:J:294:LEU:CG	1:K:273:LEU:HD22	1.97	0.94
1:J:492:VAL:HG11	1:J:499:ILE:HG13	1.48	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:D:343:PHE:CG	1:E:469:GLY:HA2	2.04	0.93
1:E:406:MET:HB3	1:F:468:THR:CG2	1.99	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:F:347:LYS:HZ2	2:R:104:GLY:HA2	1.16	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
2:S:95:MET:HG2	2:S:113:ALA:HB2	1.49	0.93
1:D:347:LYS:CE	2:P:104:GLY:HA2	1.99	0.93
1:F:492:VAL:HG11	1:F:499:ILE:HG13	1.48	0.93
1:B:294:LEU:CG	1:C:273:LEU:CD2	2.45	0.93
1:B:406:MET:HB3	1:C:468:THR:CG2	1.99	0.93
1:C:347:LYS:CE	2:O:104:GLY:HA2	1.99	0.93
1:E:294:LEU:CG	1:F:273:LEU:HD22	1.97	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:C:347:LYS:HZ2	2:O:104:GLY:HA2	1.17	0.92
1:J:343:PHE:CG	1:K:469:GLY:HA2	2.04	0.92
1:J:396:ASP:OD1	1:K:467:THR:HG21	1.67	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:E:347:LYS:CE	2:Q:104:GLY:HA2	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:B:347:LYS:CE	2:N:104:GLY:HA2	1.99	0.92
1:E:343:PHE:CG	1:F:469:GLY:HA2	2.04	0.92
1:E:459:ILE:HD13	1:E:509:LEU:HD11	1.50	0.92
1:I:492:VAL:HG11	1:I:499:ILE:HG13	1.48	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:A:347:LYS:CE	2:M:104:GLY:HA2	1.99	0.92
1:G:343:PHE:CG	1:H:469:GLY:HA2	2.04	0.92
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:L:492:VAL:HG11	1:L:499:ILE:HG13	1.48	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:G:347:LYS:HZ1	2:S:104:GLY:HA2	1.22	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: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:B:351:ASP:OD2	2:N:99:GLY:CA	2.19	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:D:347:LYS:HZ1	2:P:104:GLY:HA2	1.08	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: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:D:347:LYS:HZ2	2:P:104:GLY:HA2	1.26	0.91
1:J:343:PHE:HB3	1:K:470:ASN:N	1.85	0.91
1:K:351:ASP:OD2	2:W:99:GLY:CA	2.19	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:A:470:ASN:N	1:L:343:PHE:HB3	1.85	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: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:E:396:ASP:OD1	1:F:467:THR:HG21	1.67	0.90
1:F:343:PHE:HB3	1:G:470:ASN:N	1.85	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:B:343:PHE:HB3	1:C:470:ASN:N	1.85	0.89
1:C:343:PHE:HB3	1:D:470:ASN:N	1.85	0.89
1:G:347:LYS:HZ2	2:S:104:GLY:HA2	1.12	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: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:B:349:SER:OG	2:N:102:LYS:CG	2.21	0.88
1:E:424:LYS:HE2	1:E:441:LEU:CD1	2.03	0.88
1:G:349:SER:OG	2:S:102:LYS:CG	2.21	0.88
1:H:424:LYS:HE2	1:H:441:LEU:CD1	2.03	0.88
1:L:372:ILE:HG12	1:L:413:VAL:HG21	1.54	0.88
1:A:232:LYS:O	1:L:257:HIS:NE2	2.05	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:257:HIS:NE2	1:B:232:LYS:O	2.05	0.88
1:C:349:SER:OG	2:O:102:LYS:CG	2.21	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: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:261:ILE:CG1	1:B:229:ASP:OD1	2.21	0.88
1:A:424:LYS:HE2	1:A:441:LEU:CD1	2.03	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:H:347:LYS:HZ1	2:T:104:GLY:HA2	1.09	0.88
1:I:424:LYS:HB2	1:I:441:LEU:CD1	2.03	0.88
1:E:347:LYS:HZ2	2:Q:104:GLY:HA2	1.14	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: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:F:349:SER:OG	2:R:102:LYS:CG	2.21	0.88
1:H:343:PHE:CA	1:I:470:ASN:H	1.87	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:J:349:SER:OG	2:V:102:LYS:CG	2.21	0.88
1:K:424:LYS:HB2	1:K:441:LEU:CD1	2.03	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:HE2	1:J:441:LEU:CD1	2.03	0.88
1:J:424:LYS:HB2	1:J:441:LEU:CD1	2.03	0.88
1:K:343:PHE:CA	1:L:470:ASN:H	1.87	0.88
1:L:418:ARG:HD2	1:L:481:VAL:CB	2.04	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: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: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:A:347:LYS:HE3	2:M: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:D:347:LYS:HE3	2:P:104:GLY:N	1.90	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: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:E:343:PHE:CA	1:F:470:ASN:H	1.87	0.87
1:E:349:SER:OG	2:Q:102:LYS:CG	2.21	0.87
1:F:372:ILE:HG12	1:F:413:VAL:HG21	1.54	0.87
1:G:343:PHE:CA	1:H:470:ASN:H	1.87	0.87
1:G:387:LYS:HB3	2:S:102:LYS:CD	2.05	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:A:387:LYS:HB3	2:M:102:LYS:CD	2.05	0.87
1:F:387:LYS:HB3	2:R:102:LYS:CD	2.05	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:347:LYS:HE3	2:S:104:GLY:N	1.90	0.87
1:G:483:ILE:CG1	1:G:491:ILE:HB	2.05	0.87
1:I:347:LYS:HE3	2:U:104:GLY:N	1.90	0.87
1:I:424:LYS:HE2	1:I:441:LEU:CD1	2.03	0.87
1:B:343:PHE:CA	1:C:470:ASN:H	1.87	0.87
1:D:343:PHE:CA	1:E: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: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:299:GLN:HE21	1:G:227:ASN:HD21	0.87	0.87
1:F:483:ILE:CG1	1:F:491:ILE:HB	2.05	0.87
1:K:261:ILE:CG1	1:L:229:ASP:OD1	2.20	0.87
1:C:261:ILE:CG1	1:D:229:ASP:OD1	2.20	0.86
1:C:387:LYS:HB3	2:O:102:LYS:CD	2.05	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:418:ARG:HD2	1:B:481:VAL:CB	2.04	0.86
1:B:424:LYS:HB2	1:B:441:LEU:CD1	2.03	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:A:273:LEU:CG	1:L:295:ASN:H	1.76	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:B:483:ILE:CG1	1:B:491:ILE:HB	2.05	0.86
1:C:347:LYS:HE3	2:O:104:GLY:N	1.90	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: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:I:387:LYS:HB3	2:U:102:LYS:CD	2.05	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:F:373:VAL:CG2	1:F:412:ILE:HD11	2.05	0.86
1:K:299:GLN:HE21	1:L:227:ASN:HD21	0.87	0.86
1:K:382:MET:CE	1:K:384:LEU:HG	2.05	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:257:HIS:CD2	1:B:232:LYS:HB2	2.12	0.85
1:A:372:ILE:HG23	1:A:415:ILE:HD13	1.58	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:347:LYS:HE3	2:V:104:GLY:N	1.90	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:A:467:THR:CB	1:L:396:ASP:OD1	2.25	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: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:A:396:ASP:OD1	1:B:467:THR:CB	2.25	0.85
1:B:382:MET:CE	1:B:384:LEU:HG	2.05	0.85
1:E:373:VAL:CG2	1:E:412:ILE:HD11	2.05	0.85
1:H:261:ILE:CG1	1:I:229:ASP:OD1	2.20	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: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:A:232:LYS:HB2	1:L:257:HIS:CD2	2.12	0.85
1:B:396:ASP:OD1	1:C:467:THR:CB	2.25	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:343:PHE:CD1	1:E:469:GLY:CA	2.60	0.85
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
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:245:LEU:HD21	1:L:265:LYS:HE3	1.57	0.84
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:F:396:ASP:OD1	1:G:467:THR:CB	2.25	0.84
1:G:372:ILE:HG23	1:G:415:ILE:HD13	1.58	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: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:294:LEU:CD2	1:I:227:ASN:HB2	2.07	0.84
1:H:355:VAL:C	1:H:381:LYS:HG3	1.97	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:389:VAL:HG22	1:K:376:ASP:CB	2.08	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: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:A:389:VAL:HG22	1:B:376:ASP:CB	2.08	0.84
1:B:265:LYS:HE3	1:C:245:LEU:HD21	1.57	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:389:VAL:HG22	1:J:376:ASP:CB	2.08	0.84
1:I:404:LEU:HD12	1:I:417:PRO:CA	2.05	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:343:PHE:CD1	1:B:469:GLY:CA	2.60	0.84
1:A:457:ARG:NH1	1:A:482:LEU:HD23	1.91	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:A:376:ASP:CB	1:L:389:VAL:HG22	2.08	0.84
1:B:389:VAL:HG22	1:C:376:ASP:CB	2.08	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:C:343:PHE:CD1	1:D:469:GLY:CA	2.60	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:389:VAL:HG22	1:F:376:ASP:CB	2.08	0.84
1:H:404:LEU:HD12	1:H:417:PRO:CA	2.05	0.84
1:D:355:VAL:C	1:D:381:LYS:HG3	1.97	0.83
1:G:343:PHE:CD1	1:H:469:GLY:CA	2.60	0.83
1:H:343:PHE:HD2	1:I:472:ASN:OD1	1.61	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:294:LEU:CD2	1:C:227:ASN:HB2	2.07	0.83
1:B:404:LEU:HD12	1:B:417:PRO:CA	2.05	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:389:VAL:HG22	1:L:376:ASP:CB	2.08	0.83
1:K:457:ARG:HH12	1:K:482:LEU:HD23	1.43	0.83
1:A:472:ASN:OD1	1:L:343:PHE:CD2	2.22	0.83
1:H:389:VAL:HG22	1:I:376:ASP:CB	2.08	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:G:343:PHE:HD2	1:H:472:ASN:OD1	1.62	0.83
1:H:364:LEU:HD12	1:H:391:TRP:HB2	1.61	0.83
1:I:355:VAL:C	1:I:381:LYS:HG3	1.97	0.83
1:A:273:LEU:CG	1:L:295:ASN:N	2.27	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

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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:343:PHE:CD1	1:I:469:GLY:CA	2.60	0.82
1:H:372:ILE:HA	1:H:413:VAL:CG2	2.09	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:396:ASP:CG	1:D:467:THR:CB	2.48	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: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:A:353:GLN:HG3	2:M: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:404:LEU:HB3	1:K:416:ALA:O	1.79	0.82
1:B:343:PHE:CD2	1:C:472:ASN:OD1	2.22	0.82
1:B:347:LYS:HE3	2:N:104:GLY:H	1.45	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:295:ASN:N	1:G:273:LEU:CG	2.27	0.82
1:F:347:LYS:HE3	2:R:104:GLY:H	1.45	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:353:GLN:HG3	2:U:98:VAL:O	1.80	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: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:343:PHE:HD2	1:J:472:ASN:OD1	1.62	0.82
1:I:483:ILE:HD11	1:I:491:ILE:HD12	1.61	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:K:343:PHE:CD2	1:L:472:ASN:OD1	2.22	0.81
1:L:394:ALA:O	1:L:398:VAL:HG23	1.80	0.81
1:A:457:ARG:HH12	1:A:482:LEU:HD23	1.43	0.81
1:A:467:THR:CB	1:L:396:ASP:CG	2.48	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:394:ALA:O	1:H:398:VAL:HG23	1.80	0.81
1:H:396:ASP:CG	1:I:467:THR:CB	2.48	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:L:483:ILE:HD11	1:L:491:ILE:HD12	1.61	0.81
1:B:352:PHE:CD1	1:B:360:ILE:HG22	2.15	0.81
1:C:352:PHE:CD1	1:C:360:ILE:HG22	2.15	0.81
1:D:352:PHE:CD1	1:D: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:406:MET:SD	1:G:468:THR:CG2	2.68	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: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:K:308:TRP:CE3	1:K:324:VAL:HG13	2.14	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:D:343:PHE:N	1:E:470:ASN:HB2	1.96	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:353:GLN:HG3	2:Q:98:VAL:O	1.80	0.81
1:F:394:ALA:O	1:F:398:VAL:HG23	1.80	0.81
1:F:396:ASP:CG	1:G:467:THR:CB	2.48	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:295:ASN:N	1:L:273:LEU:CG	2.26	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:396:ASP:CG	1:L:467:THR:CB	2.48	0.81
1:L:360:ILE:O	1:L:364:LEU:HD23	1.79	0.81
1:A:364:LEU:HD12	1:A:391:TRP:HB2	1.61	0.81
1:A:469:GLY:CA	1:L:343:PHE:CG	2.64	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: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:C:347:LYS:HE3	2:O:104:GLY:H	1.45	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: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: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:I:295:ASN:N	1:J:273:LEU:CG	2.27	0.81
1:I:343:PHE:N	1:J:470:ASN:HB2	1.96	0.81
1:I:394:ALA:O	1:I:398:VAL:HG23	1.80	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:343:PHE:CG	1:K:469:GLY:CA	2.64	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:A:508:GLU:CD	1:L:447:GLN:CG	2.47	0.81
1:C:483:ILE:HD11	1:C:491:ILE:HD12	1.61	0.81
1:D:353:GLN:HG3	2:P:98:VAL:O	1.80	0.81
1:E:343:PHE:HD2	1:F:472:ASN:OD1	1.61	0.81
1:E:450:TYR:CD1	1:E:514:GLN:HA	2.16	0.81
1:H:294:LEU:HA	1:I:273:LEU:HD21	1.61	0.81
1:I:487:THR:HG21	1:J:459:ILE:CG2	2.12	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: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: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:389:VAL:HG22	1:E:376:ASP:OD2	1.81	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: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:294:LEU:HA	1:F:273:LEU:HD21	1.61	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:389:VAL:HG22	1:F:376:ASP:OD2	1.81	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:A:470:ASN:HB2	1:L:343:PHE:N	1.96	0.80
1:C:364:LEU:HD12	1:C:391:TRP:HB2	1.61	0.80
1:F:343:PHE:CG	1:G:469:GLY:CA	2.64	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:G:343:PHE:N	1:H:470:ASN:HB2	1.96	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:I:450:TYR:CD1	1:I:514:GLN:HA	2.16	0.80
1:A:459:ILE:CG2	1:L:487:THR:HG21	2.12	0.80
1:B:294:LEU:HA	1:C:273:LEU:HD21	1.61	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:I:406:MET:SD	1:J:468:THR:CG2	2.68	0.80
1:A:472:ASN:OD1	1:L:343:PHE:HD2	1.62	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: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:D:343:PHE:N	1:E:470:ASN:H	1.80	0.80
1:E:372:ILE:HA	1:E:413:VAL:HG23	1.64	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:E:343:PHE:N	1:F:470:ASN:HB2	1.96	0.79
1:F:450:TYR:CD1	1:F:514:GLN:HA	2.16	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:G:487:THR:HG21	1:H:459:ILE:CG2	2.11	0.79
1:H:372:ILE:HA	1:H:413:VAL:HG23	1.64	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:G:343:PHE:N	1:H:470:ASN:H	1.80	0.79
1:H:456:PHE:HE1	1:H:509:LEU:HB2	1.48	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: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:K:456:PHE:HE1	1:K:509:LEU:HB2	1.48	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:351:ASP:CG	2:Q:100:ILE:H	1.86	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: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:G:351:ASP:CG	2:S:100:ILE:H	1.86	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:J:351:ASP:CG	2:V:100:ILE:H	1.86	0.78
1:K:351:ASP:CG	2:W: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:351:ASP:CG	2:N:100:ILE:H	1.86	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: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:G:307:ASN:ND2	2:S:162:LEU:HD12	2.00	0.77
1:L:483:ILE:O	1:L:490:LEU:HD12	1.83	0.77
1:A:406:MET:SD	1:B:468:THR:CG2	2.68	0.77
1:B:406:MET:SD	1:C: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: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:343:PHE:CD2	1:I:472:ASN:OD1	2.22	0.77
1:H:408:GLN:HG2	1:H:413:VAL:HG12	1.65	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:A:468:THR:CG2	1:L:406:MET:SD	2.68	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: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:C:447:GLN:CG	1:D:508:GLU:CD	2.47	0.77
1:D:450:TYR:CE2	1:D:514:GLN:HG3	2.20	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:406:MET:SD	1:L:468:THR:CG2	2.68	0.76
1:K:450:TYR:CE2	1:K:514:GLN:HG3	2.19	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:447:GLN:HG3	1:L:508:GLU:CD	2.06	0.76
1:K:465:ALA:CB	1:K:475:ILE:HD11	2.13	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:307:ASN:ND2	2:V:162:LEU:HD12	2.00	0.76
1:J:447:GLN:CG	1:K:508:GLU:CD	2.47	0.76
2:O:161:LEU:O	2:O:161:LEU:HD13	1.86	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:307:ASN:ND2	2:N:162:LEU:HD12	2.00	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
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:HD22	1:K:404:LEU:H	1.51	0.76
2:P:161:LEU:O	2:P:161:LEU:HD13	1.86	0.76
2:Q:161:LEU:HD13	2:Q:161:LEU:O	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:447:GLN:HG3	1:I:508:GLU:CD	2.06	0.75
1:H:492:VAL:CG1	1:H:499:ILE:HG13	2.16	0.75
1:J:404:LEU:H	1:J:404:LEU:HD22	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:HD22	1:L:404:LEU:H	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:O	2:S:161:LEU:HD13	1.86	0.75
1:A:245:LEU:HB2	1:L:265:LYS:HE2	1.65	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
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:O	2:U:161:LEU:HD13	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:H	1:B:404:LEU:HD22	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:HD22	1:C:404:LEU:H	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:O	2:M:161:LEU:HD13	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:H:447:GLN:CG	1:I:508:GLU:CD	2.47	0.74
1:I:294:LEU:CA	1:J:273:LEU:CD2	2.65	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:O	2:W:161:LEU:HD13	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:O	2:X:161:LEU:HD13	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:294:LEU:CA	1:F:273:LEU:CD2	2.64	0.74
1:E:508:GLU:O	1:E:512:PRO:HD2	1.87	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:378:VAL:O	1:D:417:PRO:HB3	1.88	0.74
1:D:382:MET:HE1	1:D:384:LEU:HG	1.69	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:D:447:GLN:HG3	1:E:508:GLU:CD	2.07	0.74
1:E:378:VAL:O	1:E:417:PRO:HB3	1.88	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:G:447:GLN:HG3	1:H:508:GLU:CD	2.07	0.74
1:H:347:LYS:HZ1	2:T:104:GLY:CA	1.95	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:447:GLN:CG	1:H:508:GLU:CD	2.47	0.73
1:G:508:GLU:O	1:G:512:PRO:HD2	1.87	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:G:351:ASP:OD2	2:S: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: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:D:351:ASP:OD2	2:P:99:GLY:HA3	1.89	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:A:227:ASN:HB3	1:L:294:LEU:HD21	1.70	0.73
1:D:404:LEU:CD1	1:D:417:PRO:HA	2.08	0.73
1:E:351:ASP:OD2	2:Q:99:GLY:HA2	1.89	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:J:351:ASP:OD2	2:V:99:GLY:HA2	1.89	0.73
2:N:126:LEU:HD22	2:N:131:GLY:HA3	1.70	0.73
2:U:126:LEU:HD22	2:U:131:GLY:HA3	1.70	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:E:347:LYS:CE	2:Q:104:GLY:CA	2.67	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: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: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
1:H:350:LEU:HD12	1:H:352:PHE:HE2	1.55	0.72
1:K:351:ASP:OD2	2:W:99:GLY:HA2	1.89	0.72
2:S:126:LEU:HD22	2:S:131:GLY:HA3	1.70	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:F:351:ASP:OD2	2:R:99:GLY:HA2	1.89	0.72
1:I:447:GLN:HG3	1:J:508:GLU:CD	2.07	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: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: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:265:LYS:CG	1:L:245:LEU:HD11	2.20	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: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:265:LYS:CG	1:K:245:LEU:HD11	2.20	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: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:B:351:ASP:OD2	2:N:99:GLY:HA2	1.89	0.71
1:C:265:LYS:HG3	1:D:245:LEU:HD11	1.72	0.71
1:C:447:GLN:HG3	1:D:508:GLU:CD	2.07	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:265:LYS:CG	1:I:245:LEU:HD11	2.20	0.71
1:H:294:LEU:HD13	1:H:299:GLN:HB2	1.72	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: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:265:LYS:HG3	1:L:245:LEU:HD11	1.72	0.71
1:K:404:LEU:HB2	1:K:415:ILE:CG2	2.20	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:299:GLN:NE2	1:E:227:ASN:CG	2.44	0.70
1:D:448:LEU:HD11	1:D:506:ILE:CG2	2.21	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
1:J:347:LYS:CE	2:V:104:GLY:CA	2.67	0.70
2:T:98:VAL:HG11	2:T:112:GLU:HB3	1.73	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:299:GLN:NE2	1:C:227:ASN:OD1	2.25	0.70
1:B:350:LEU:HD12	1:B:352:PHE:CE2	2.27	0.70
1:D:347:LYS:CE	2:P:104:GLY:CA	2.67	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:L:351:ASP:OD2	2:X:99:GLY:HA3	1.89	0.70
2:S:98:VAL:HG11	2:S:112:GLU:HB3	1.73	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:265:LYS:HG3	1:J:245:LEU:HD11	1.72	0.70
1:I:299:GLN:NE2	1:J:227:ASN:CG	2.44	0.70
1:L:448:LEU:HD11	1:L:506:ILE:CG2	2.21	0.70
1:L:459:ILE:HG13	1:L:460:LEU:N	2.07	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:354:ASP:O	1:B:381:LYS:HD3	1.92	0.70
1:B:372:ILE:HG23	1:B:415:ILE:CD1	2.22	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:265:LYS:CG	1:H:245:LEU:HD11	2.20	0.70
1:G:354:ASP:O	1:G:381:LYS:HD3	1.92	0.70
2:O:98:VAL:HG11	2:O:112:GLU:HB3	1.73	0.70
1:A:448:LEU:HD11	1:A:506:ILE:CG2	2.21	0.69
1:A:467:THR:HB	1:L:396:ASP:OD1	1.91	0.69
1:B:347:LYS:CE	2:N:104:GLY:CA	2.67	0.69
1:D:372:ILE:HG23	1:D:415:ILE:CD1	2.22	0.69
1:E:299:GLN:NE2	1:F:227:ASN:OD1	2.25	0.69
1:E:457:ARG:NH2	1:E:460:LEU:HD12	2.06	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: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:372:ILE:HG23	1:C:415:ILE:CD1	2.22	0.69
1:C:395:LEU:O	1:C:399:MET:HG2	1.93	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:227:ASN:CG	1:L:299:GLN:NE2	2.44	0.69
1:A:362:GLN:O	1:A:366:LYS:HG2	1.93	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:B:457:ARG:NH2	1:B:460:LEU:HD12	2.06	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: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: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:395:LEU:O	1:E:399:MET:HG2	1.93	0.69
1:E:459:ILE:HD13	1:E:509:LEU:CD1	2.21	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:I:457:ARG:NH2	1:I:460:LEU:HD12	2.06	0.69
1:J:265:LYS:HG3	1:K:245:LEU:HD11	1.72	0.69
1:J:395:LEU:O	1:J:399:MET:HG2	1.93	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:343:PHE:HD1	1:D:469:GLY:HA2	1.57	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:G:347:LYS:CE	2:S:104:GLY:CA	2.67	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:347:LYS:CE	2:W:104:GLY:CA	2.67	0.69
1:K:372:ILE:HG23	1:K:415:ILE:CD1	2.22	0.69
1:K:395:LEU:O	1:K:399:MET:HG2	1.93	0.69
1:L:404:LEU:CD1	1:L:417:PRO:HA	2.08	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:265:LYS:CG	1:J:245:LEU:HD11	2.20	0.68
1:I:396:ASP:OD1	1:J:467:THR:HB	1.91	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:A:229:ASP:CG	1:L:261:ILE:HG21	2.10	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
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:G:447:GLN:CB	1:H:508:GLU:OE2	2.42	0.68
1:H:261:ILE:HG21	1:I:229:ASP:CG	2.10	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:447:GLN:CB	1:I:508:GLU:OE2	2.42	0.68
1:H:459:ILE:HG13	1:H:460:LEU:N	2.07	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:B:447:GLN:CB	1:C:508:GLU:OE2	2.42	0.68
1:C:424:LYS:HG2	1:C:428:PHE:CE1	2.29	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:A:459:ILE:HG22	1:L:487:THR:HG21	1.76	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:475:ILE:HG23	1:H:476:SER:O	1.95	0.67
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:C:447:GLN:CB	1:D:508:GLU:OE2	2.42	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: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:294:LEU:CB	1:K:273:LEU:HD21	2.25	0.67
1:J:475:ILE:HG23	1:J:476:SER:O	1.95	0.67
2:P:97:TYR:CD2	2:P:161:LEU:HD11	2.30	0.67
1:A:294:LEU:CB	1:B:273:LEU:HD21	2.25	0.67
1:A:516:VAL:HG23	1:A:517:MET:N	2.09	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:HD23	2:P:162:LEU:H	1.60	0.67
1:A:245:LEU:CD1	1:L:265:LYS:CG	2.71	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
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:294:LEU:CB	1:D:273:LEU:HD21	2.25	0.67
1:C:361:LEU:HD21	1:C:372:ILE:HG22	1.77	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:294:LEU:CB	1:L:273:LEU:HD21	2.25	0.66
1:K:475:ILE:HG23	1:K:476:SER:O	1.95	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:343:PHE:HD1	1:F:469:GLY:HA2	1.57	0.66
1:E:444:GLN:HB3	1:E:499:ILE:HD11	1.76	0.66
1:H:482:LEU:HD13	1:H:482:LEU:N	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:A:273:LEU:CD2	1:L:294:LEU:CA	2.65	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
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:C:487:THR:HG21	1:D:459:ILE:HG22	1.76	0.66
1:D:447:GLN:CB	1:E:508:GLU:OE2	2.42	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:294:LEU:CB	1:F:273:LEU:HD21	2.25	0.66
1:E:450:TYR:CG	1:E:514:GLN:HA	2.31	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:HD23	2:X:162:LEU:H	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:450:TYR:CG	1:D:514:GLN:HA	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

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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:450:TYR:CG	1:G:514:GLN:HA	2.31	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: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:O	1:I:482:LEU:HD22	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:446:PHE:HE2	1:J:503:ARG:HB2	1.61	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: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:HD23	2:O:162:LEU:H	1.60	0.66
2:U:162:LEU:HD23	2:U:162:LEU:H	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:294:LEU:CB	1:G:273:LEU:HD21	2.25	0.66
1:F:416:ALA:HB1	1:F:417:PRO:HD2	1.78	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:307:ASN:CG	2:O:162:LEU:HD12	2.17	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:483:ILE:HG12	1:C:491:ILE:HB	1.78	0.65
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:294:LEU:CB	1:J:273:LEU:HD21	2.25	0.65
1:I:354:ASP:C	1:I:381:LYS:HD3	2.17	0.65
1:L:446:PHE:HE2	1:L:503:ARG:HB2	1.61	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:HD13	1:E:482:LEU:N	2.11	0.65
1:F:425:ASP:HA	1:F:428:PHE:CD2	2.31	0.65
1:G:294:LEU:CB	1:H:273:LEU:HD21	2.25	0.65
1:G:482:LEU:HD13	1:G:482:LEU:N	2.11	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:HG	1:D:273:LEU:HD21	1.76	0.65
1:C:294:LEU:CA	1:D:273:LEU:CD2	2.65	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:O	1:H:482:LEU:HD22	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:307:ASN:CG	2:V:162:LEU:HD12	2.17	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:S:111:ILE:HD13	2:S:120:VAL:HG22	1.79	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:F:307:ASN:CG	2:R:162:LEU:HD12	2.17	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
2:W:111:ILE:HD13	2:W:120:VAL:HG22	1.79	0.65
1:A:294:LEU:CG	1:B:273:LEU:HD21	2.27	0.65
1:A:307:ASN:CG	2:M:162:LEU:HD12	2.17	0.65
1:A:354:ASP:C	1:A:381:LYS:HD3	2.17	0.65
1:A:406:MET:HB3	1:B:468:THR:HG23	1.78	0.65
1:A:450:TYR:CG	1:A:514:GLN:HA	2.31	0.65
1:C:446:PHE:HE2	1:C:503:ARG:HB2	1.61	0.65
1:F:446:PHE:HE2	1:F:503:ARG:HB2	1.61	0.65
1:F:490:LEU:HD23	1:F:506:ILE:HD11	1.77	0.65
1:G:307:ASN:CG	2:S:162:LEU:HD12	2.17	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:343:PHE:HD1	1:L:469:GLY:HA2	1.57	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
2:T:111:ILE:HD13	2:T:120:VAL:HG22	1.79	0.65
2:T:162:LEU:HD23	2:T:162:LEU:H	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:D:406:MET:HB3	1:E:468:THR:HG23	1.78	0.65
1:E:352:PHE:CE1	1:E:360:ILE:HG22	2.31	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:O	1:K:482:LEU:HD22	1.96	0.65
1:L:307:ASN:CG	2:X:162:LEU:HD12	2.17	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:B:446:PHE:HE2	1:B:503:ARG:HB2	1.61	0.65
1:B:483:ILE:HG12	1:B:491:ILE:HB	1.78	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:447:GLN:CB	1:F:508:GLU:OE2	2.42	0.65
1:E:482:LEU:O	1:E:482:LEU:HD22	1.96	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:294:LEU:CG	1:K:273:LEU:HD21	2.27	0.65
1:J:404:LEU:CD1	1:J:417:PRO:HA	2.08	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: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: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: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:HD13	1:L:482:LEU:N	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:O	1:B:482:LEU:HD22	1.96	0.64
1:C:406:MET:HB3	1:D:468:THR:HG23	1.79	0.64
1:D:354:ASP:C	1:D:381:LYS:HD3	2.17	0.64
1:I:307:ASN:CG	2:U:162:LEU:HD12	2.17	0.64
1:J:416:ALA:HB1	1:J:417:PRO:HD2	1.77	0.64
1:K:307:ASN:CG	2:W:162:LEU:HD12	2.17	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: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:343:PHE:N	1:B:470:ASN:CB	2.61	0.64
1:A:482:LEU:O	1:A:482:LEU:HD22	1.96	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:G:343:PHE:HD1	1:H:469:GLY:HA2	1.57	0.64
1:H:359:THR:O	1:H:363:ILE:HG12	1.98	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:D:343:PHE:HD1	1:E:469:GLY:HA2	1.57	0.64
1:E:378:VAL:HG12	1:E:417:PRO:HD3	1.79	0.64
1:E:416:ALA:HB1	1:E:417:PRO:HD2	1.77	0.64
1:E:515:GLN:O	1:E:515:GLN:HG2	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:HG2	1:A:515:GLN:O	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:HG2	1:G:515:GLN:O	1.98	0.63
1:H:343:PHE:CB	1:I:469:GLY:C	2.42	0.63
1:I:343:PHE:HD1	1:J:469:GLY:HA2	1.57	0.63
1:J:465:ALA:N	1:J:475:ILE:HD13	2.13	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:349:SER:HB2	2:W:102:LYS:H	1.64	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:465:ALA:N	1:K:475:ILE:HD13	2.14	0.63
1:K:511:VAL:HB	1:K:512:PRO:HD3	1.80	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:C:349:SER:HB2	2:O:102:LYS:H	1.64	0.63
1:E:404:LEU:HD22	1:E:404:LEU:N	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
2:P:97:TYR:HB2	2:P:161:LEU:HD21	1.81	0.63
2:R:126:LEU:HD13	2:R:126:LEU:N	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:349:SER:HB2	2:Q:102:LYS:H	1.64	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:HD22	1:F:404:LEU:N	2.14	0.63
1:F:465:ALA:N	1:F:475:ILE:HD13	2.14	0.63
1:H:349:SER:HB2	2:T:102:LYS:H	1.64	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
2:S:97:TYR:HB2	2:S:161:LEU:HD21	1.81	0.63
2:X:126:LEU:HD13	2:X:126:LEU:N	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:HD22	1:D:404:LEU:N	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:343:PHE:HD1	1:K:469:GLY:HA2	1.57	0.63
1:J:378:VAL:HG12	1:J:417:PRO:HD3	1.80	0.63
1:L:515:GLN:HG2	1:L:515:GLN:O	1.99	0.63
2:N:126:LEU:HD13	2:N:126:LEU:N	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:343:PHE:N	1:J:470:ASN:CB	2.61	0.63
1:I:511:VAL:HB	1:I:512:PRO:HD3	1.80	0.63
2:Q:126:LEU:HD13	2:Q:126:LEU:N	2.13	0.63
2:T:126:LEU:HD13	2:T:126:LEU:N	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:294:LEU:CG	1:F:273:LEU:HD21	2.27	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:F:515:GLN:O	1:F:515:GLN:HG2	1.99	0.63
1:G:404:LEU:HD22	1:G:404:LEU:N	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:HD13	2:M:126:LEU:N	2.13	0.63
2:O:126:LEU:HD13	2:O:126:LEU:N	2.13	0.63
1:A:227:ASN:OD1	1:L:294:LEU:HD11	1.99	0.62
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:HD22	1:C:404:LEU:N	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:294:LEU:HD11	1:G:227:ASN:OD1	1.99	0.62
1:F:418:ARG:CD	1:F:481:VAL:HB	2.17	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: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:I:406:MET:HB3	1:J:468:THR:HG23	1.79	0.62
1:J:408:GLN:CG	1:J:413:VAL:HG12	2.30	0.62
1:K:257:HIS:CD2	1:L:232:LYS:O	2.52	0.62
2:V:126:LEU:HD13	2:V:126:LEU:N	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:257:HIS:CD2	1:I:232:LYS:O	2.52	0.62
1:H:404:LEU:HD22	1:H:404:LEU:N	2.14	0.62
2:U:126:LEU:HD13	2:U:126:LEU:N	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:HG2	1:D:515:GLN:O	1.98	0.62
1:E:257:HIS:CD2	1:F:232:LYS:O	2.52	0.62
1:E:406:MET:HB3	1:F:468:THR:HG23	1.78	0.62
1:F:257:HIS:CD2	1:G:232:LYS:O	2.52	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:HD22	1:B:404:LEU:N	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:257:HIS:CD2	1:C:232:LYS:O	2.52	0.62
1:B:483:ILE:CD1	1:B:491:ILE:HD12	2.30	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:349:SER:HB2	2:V:102:LYS:H	1.64	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
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:HG2	1:I:515:GLN:O	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:232:LYS:O	1:L:257:HIS:CD2	2.52	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:257:HIS:CD2	1:H:232:LYS:O	2.52	0.62
1:G:355:VAL:O	1:G:381:LYS:HG3	1.98	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: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:HD22	1:L:404:LEU:N	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:HD22	1:J:404:LEU:N	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:HD22	1:K:404:LEU:N	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:N	2:N:111:ILE:HD12	2.16	0.61
2:S:111:ILE:HD12	2:S:111:ILE:N	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:HD12	2:X:111:ILE:N	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:D:353:GLN:CG	2:P:98:VAL:O	2.49	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:512:PRO:HA	1:I:515:GLN:NE2	2.15	0.61
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
2:Q:111:ILE:N	2:Q:111:ILE:HD12	2.16	0.61
2:R:128:GLN:HG3	2:R:129:ASN:H	1.65	0.61
2:T:111:ILE:N	2:T:111:ILE:HD12	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:B:349:SER:HB2	2:N:102:LYS:H	1.64	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
2:O:111:ILE:HD12	2:O:111:ILE:N	2.16	0.61
2:V:111:ILE:N	2:V:111:ILE:HD12	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:343:PHE:HD1	1:G:469:GLY:HA2	1.57	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:H:418:ARG:CD	1:H:481:VAL:HB	2.17	0.61
1:H:424:LYS:HD3	1:H:428:PHE:CE1	2.35	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:265:LYS:HG3	1:L:245:LEU:CD1	2.31	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:L:353:GLN:CG	2:X:98:VAL:O	2.49	0.60
2:P:111:ILE:HD12	2:P:111:ILE:N	2.16	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:265:LYS:HG3	1:I:245:LEU:CD1	2.31	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: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:265:LYS:HG3	1:F:245:LEU:CD1	2.31	0.60
1:E:512:PRO:HA	1:E:515:GLN:NE2	2.15	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:259:HIS:CD2	1:C:301:ILE:HG23	2.35	0.60
1:C:294:LEU:CD1	1:D:273:LEU:CD2	2.80	0.60
1:C:399:MET:HB3	1:C:404:LEU:O	2.01	0.60
1:D:265:LYS:HG3	1:E:245:LEU:CD1	2.31	0.60
1:D:396:ASP:OD2	1:E:467:THR:CG2	2.41	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:D:447:GLN:HE22	1:E:505:LEU:HD13	1.67	0.60
1:E:228:ILE:HD13	1:E:277:LEU:HD21	1.82	0.60
1:F:399:MET:HA	1:F:403:ASN:HB2	1.84	0.60
1:G:406:MET:CB	1:H:468:THR:CG2	2.79	0.60
1:H:458:SER:O	1:H:462:LEU:HG	2.02	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:447:GLN:HE22	1:C:505:LEU:HD13	1.67	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: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:447:GLN:HE22	1:G:505:LEU:HD13	1.67	0.60
1:F:483:ILE:CD1	1:F:491:ILE:HD12	2.30	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:389:VAL:HG23	1:B:376:ASP:OD2	2.01	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: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:294:LEU:CD1	1:L:273:LEU:CD2	2.79	0.59
1:K:418:ARG:CD	1:K:481:VAL:HB	2.17	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:265:LYS:HG3	1:H:245:LEU:CD1	2.31	0.59
1:G:361:LEU:HD21	1:G:372:ILE:CG2	2.32	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:K:447:GLN:HE22	1:L:505:LEU:HD13	1.67	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: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:HD12	1:E:228:ILE:O	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:O	1:B:228:ILE:HD12	2.03	0.59
1:C:374:ALA:HB1	1:C:378:VAL:HG11	1.85	0.59
1:C:447:GLN:HE22	1:D:505:LEU:HD13	1.67	0.59
1:D:389:VAL:HG23	1:E:376:ASP:OD2	2.01	0.59
1:D:483:ILE:CD1	1:D:491:ILE:HB	2.33	0.59
1:E:361:LEU:HD21	1:E:372:ILE:CB	2.33	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:HD12	1:K:228:ILE:O	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:446:PHE:HE2	1:B:503:ARG:CB	2.17	0.58
1:B:464:ASN:CG	1:B:475:ILE:HG21	2.23	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:245:LEU:CD1	1:L:265:LYS:HG3	2.31	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:406:MET:CB	1:G:468:THR:CG2	2.79	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:J:483:ILE:CD1	1:J:491:ILE:HB	2.33	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:J:447:GLN:HE22	1:K:505:LEU:HD13	1.67	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:A:273:LEU:HD21	1:L:294:LEU:HG	1.76	0.57
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: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:293:ARG:HH11	1:E:272:THR:HG21	1.64	0.57
1:D:483:ILE:HD11	1:D:491:ILE:HB	1.86	0.57
1:E:446:PHE:HE2	1:E:503:ARG:CB	2.17	0.57
1:F:343:PHE:HB3	1:G:470:ASN:H	1.49	0.57
1:F:364:LEU:HG	1:F:395:LEU:HD21	1.86	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:406:MET:CB	1:J:468:THR:CG2	2.79	0.57
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: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:A:347:LYS:CE	2:M:104:GLY:N	2.67	0.57
1:A:467:THR:CG2	1:L:396:ASP:OD2	2.41	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:293:ARG:HH11	1:H:272:THR:HG21	1.64	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: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
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:A:447:GLN:OE1	1:B:508:GLU:OE2	2.23	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:346:ARG:O	1:B:348:ILE:HD12	2.04	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:A:245:LEU:HA	1:L:265:LYS:NZ	2.17	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: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:92:LEU:HB2	2:R:128:GLN:HG2	1.86	0.57
2:R:110:PHE:CE1	2:R:117:VAL:HB	2.40	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:293:ARG:HH11	1:J:272:THR:HG21	1.64	0.57
1:I:405:ASP:O	1:I:415:ILE:HG23	2.05	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:447:GLN:OE1	1:J:508:GLU:OE2	2.23	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: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
1:K:347:LYS:HE3	2:W:104:GLY:CA	2.35	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: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:447:GLN:OE1	1:C:508:GLU:OE2	2.23	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: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:HD23	1:J:361:LEU:C	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:A:272:THR:CG2	1:L:293:ARG:NH1	2.48	0.56
1:B:265:LYS:CE	1:C:245:LEU:CB	2.01	0.56
1:B:361:LEU:HD21	1:B:372:ILE:C	2.26	0.56
1:C:372:ILE:HA	1:C:413:VAL:HG22	1.87	0.56
1:C:382:MET:SD	1:C:398:VAL:HG13	2.45	0.56
1:C:404:LEU:HA	1:C:419:ASP:OD2	2.05	0.56
1:C:483:ILE:HD11	1:C:491:ILE:HB	1.86	0.56
1:C:511:VAL:O	1:C:514:GLN:HB3	2.05	0.56
1:E:347:LYS:CE	2:Q:104:GLY:N	2.67	0.56
1:E:361:LEU:HD23	1:E:361:LEU:C	2.25	0.56
1:E:467:THR:CG2	1:E:476:SER:HB2	2.35	0.56
1:F:343:PHE:CB	1:G:469:GLY:C	2.42	0.56
1:F:361:LEU:HD21	1:F:372:ILE:O	2.05	0.56
1:F:361:LEU:HD23	1:F:361:LEU:C	2.25	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: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:H:511:VAL:O	1:H:514:GLN:HB3	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:J:347:LYS:HE3	2:V:104:GLY:CA	2.35	0.56
1:K:382:MET:SD	1:K:398:VAL:HG13	2.45	0.56
1:K:453:VAL:HG23	1:K:488:ASN:OD1	2.05	0.56
1:K:490:LEU:HD23	1:K:506:ILE:CD1	2.35	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:Q:133:ILE:HD12	2:Q:143:LEU:HB3	1.88	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

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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:HD21	1:A:372:ILE:O	2.05	0.56
1:A:361:LEU:C	1:A:361:LEU:HD23	2.25	0.56
1:D:404:LEU:HA	1:D:419:ASP:OD2	2.05	0.56
1:D:405:ASP:O	1:D:415:ILE:HG23	2.05	0.56
1:G:447:GLN:OE1	1:H:508:GLU:OE2	2.23	0.56
1:G:453:VAL:HG23	1:G:488:ASN:OD1	2.05	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:92:LEU:HD13	2:P:127:GLY:HA2	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:P:110:PHE:CE1	2:P:117:VAL:HB	2.40	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:F:347:LYS:CE	2:R:104:GLY:N	2.67	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: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:92:LEU:HB2	2:W:128:GLN:HG2	1.86	0.56
2:W:110:PHE:CE1	2:W:117:VAL:HB	2.40	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:C:447:GLN:OE1	1:D:508:GLU:OE2	2.23	0.56
1:D:490:LEU:HD23	1:D:506:ILE:CD1	2.35	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:K:406:MET:CB	1:L:468:THR:CG2	2.79	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:361:LEU:HD21	1:L:372:ILE:C	2.26	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:C:487:THR:CG2	1:D:459:ILE:HG22	2.36	0.56
1:D:364:LEU:O	1:D:367:GLU:HB2	2.06	0.56
1:E:447:GLN:CG	1:F:508:GLU:CD	2.47	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: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:92:LEU:HD13	2:M:127:GLY:HA2	1.87	0.56
2:M:111:ILE:HG22	2:M:112:GLU:N	2.19	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:406:MET:CB	1:B:468:THR:CG2	2.79	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: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:487:THR:CG2	1:L:459:ILE:HG22	2.36	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:C	1:L:361:LEU:HD23	2.25	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:406:MET:CB	1:F:468:THR:CG2	2.79	0.55
1:E:490:LEU:HD23	1:E:506:ILE:CD1	2.35	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:HD22	2:T:161:LEU:C	2.27	0.55
2:W:161:LEU:HD22	2:W:161:LEU:C	2.27	0.55
1:A:354:ASP:CG	1:A:381:LYS:HD3	2.26	0.55
1:A:364:LEU:O	1:A:367:GLU:HB2	2.06	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:D:487:THR:CG2	1:E:459:ILE:HG22	2.36	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: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:F:447:GLN:OE1	1:G:508:GLU:OE2	2.23	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:H:487:THR:CG2	1:I:459:ILE:HG22	2.36	0.55
1:I:352:PHE:HB3	1:I:355:VAL:HG12	1.87	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:347:LYS:CE	2:S:104:GLY:N	2.67	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
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:406:MET:CB	1:I:468:THR:CG2	2.79	0.55
1:H:467:THR:HG21	1:H:476:SER:HB3	1.89	0.55
1:H:473:THR:HG23	1:H:474:LEU:N	2.22	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:HD12	1:B:415:ILE:N	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:G:487:THR:CG2	1:H:459:ILE:HG22	2.36	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: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:258:ASP:HB2	1:F:282:PHE:CE2	2.43	0.54
1:E:265:LYS:NZ	1:F:245:LEU:CA	2.35	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:F:467:THR:HG21	1:F:476:SER:HB2	1.90	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:F:487:THR:CG2	1:G:459:ILE:HG22	2.36	0.54
1:G:228:ILE:HD13	1:G:277:LEU:CD2	2.38	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:HD12	1:K:415:ILE:N	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:D:343:PHE:CD1	1:E:469:GLY:HA3	2.42	0.54
1:E:372:ILE:HA	1:E:413:VAL:HG22	1.87	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:N	1:I:415:ILE:HD12	2.22	0.54
2:Q:158:LYS:O	2:Q:159:ALA:HB2	2.07	0.54
2:X:161:LEU:HD22	2:X:161:LEU:C	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:HD3	1:G:449:LYS:N	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:347:LYS:CE	2:T:104:GLY:N	2.67	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:HD3	1:L:449:LYS:N	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
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:HD13	1:J:482:LEU:H	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:HD22	2:Q:161:LEU:C	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:HD3	1:B:449:LYS:N	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:HD12	1:E:415:ILE:N	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:N	1:G:415:ILE:HD12	2.22	0.53
1:I:386:LEU:HD12	1:I:386:LEU:N	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:HD13	2:Q:161:LEU:C	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:HD13	1:F:482:LEU:H	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:HD22	2:O:161:LEU:C	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:HD13	2:T:161:LEU:C	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:A:470:ASN:N	1:L:343:PHE:N	2.53	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:F:293:ARG:HH11	1:G:272:THR:HG21	1.64	0.53
1:G:258:ASP:HB2	1:H:282:PHE:CE2	2.43	0.53
1:H:418:ARG:HD3	1:H:474:LEU:HD13	1.90	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:343:PHE:N	1:H:470:ASN:N	2.53	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: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:HD3	1:K:449:LYS:N	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:N	1:F:386:LEU:HD12	2.23	0.53
1:G:361:LEU:HD21	1:G:372:ILE:HB	1.90	0.53
1:G:482:LEU:HD13	1:G:482:LEU:H	1.73	0.53
1:H:343:PHE:CD1	1:I:469:GLY:HA3	2.42	0.53
1:H:414:ASN:C	1:H:415:ILE:HD12	2.28	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:232:LYS:CB	1:L:257:HIS:CD2	2.89	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:418:ARG:CD	1:C:481:VAL:HB	2.17	0.53
1:I:356:GLU:HA	1:I:381:LYS:HA	1.90	0.53
1:L:464:ASN:HA	1:L:502:PHE:HZ	1.74	0.53
1:L:467:THR:HG21	1:L:476:SER:HB2	1.90	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:294:LEU:HD12	1:J:273:LEU:HD23	1.91	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: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:HD12	1:D:386:LEU:N	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:347:LYS:CE	2:U:104:GLY:N	2.67	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
2:V:161:LEU:HD13	2:V:161:LEU:C	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:HD3	1:E:449:LYS:N	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:N	1:H:386:LEU:HD12	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:HD13	1:E:482:LEU:H	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:HD3	1:J:449:LYS:N	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:HD13	2:X:161:LEU:C	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:HD12	1:L:386:LEU:N	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:D:406:MET:CB	1:E:468:THR:CG2	2.79	0.52
1:E:361:LEU:HD21	1:E:372:ILE:HB	1.91	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
1:L:347:LYS:CE	2:X:104:GLY:N	2.67	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: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:HD13	2:O:161:LEU:C	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:HD13	1:C:482:LEU:H	1.73	0.52
1:C:482:LEU:HB2	1:C:490:LEU:HD11	1.92	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:347:LYS:CE	2:V:104:GLY:N	2.67	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
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:464:ASN:HA	1:D:502:PHE:HZ	1.74	0.52
1:D:482:LEU:HD13	1:D:482:LEU:H	1.73	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:K:347:LYS:CE	2:W:104:GLY:N	2.67	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:A:294:LEU:HD12	1:B:273:LEU:HD23	1.91	0.52
1:A:418:ARG:HD3	1:A:474:LEU:HD13	1.90	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:356:GLU:HA	1:K:381:LYS:HA	1.90	0.52
1:K:357:ILE:HD12	1:K:379:ASN:HB3	1.92	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:294:LEU:HD12	1:E:273:LEU:HD23	1.91	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: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:355:VAL:HG22	1:L:356:GLU:N	2.24	0.52
1:L:356:GLU:HA	1:L:381:LYS:HA	1.90	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:244:ALA:HB3	1:A:318:GLY:O	2.10	0.51
1:A:273:LEU:CD2	1:L:294:LEU:HD12	2.41	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:372:ILE:HG23	1:C:413:VAL:HG23	1.92	0.51
1:C:382:MET:HE1	1:C:384:LEU:CG	2.36	0.51
1:D:294:LEU:CG	1:E:273:LEU:HD21	2.27	0.51
1:D:372:ILE:HG23	1:D:413:VAL:HG23	1.92	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:N	2:W:136:ILE:HD12	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:294:LEU:HD12	1:D:273:LEU:CD2	2.41	0.51
1:C:457:ARG:HD2	1:C:484:ASP:OD2	2.10	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:256:GLN:CD	1:J:231:ARG:HD2	2.29	0.51
1:I:260:ILE:C	1:I:261:ILE:HD12	2.31	0.51
1:K:344:THR:HG23	1:K:344:THR:O	2.11	0.51
1:K:441:LEU:HG	1:K:495:THR:HA	1.92	0.51
1:K:457:ARG:HD2	1:K:484:ASP:OD2	2.10	0.51
1:L:344:THR:O	1:L:344:THR:HG23	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:HD12	2:P:136:ILE:N	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:343:PHE:CD1	1:B:469:GLY:HA3	2.42	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:B:482:LEU:HD13	1:B:482:LEU:H	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:294:LEU:HD12	1:E:273:LEU:CD2	2.40	0.51
1:D:347:LYS:HE3	2:P:104:GLY:CA	2.35	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:367:GLU:O	1:D:368:SER:HB3	2.11	0.51
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: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:HG23	1:J:344:THR:O	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:O	2:U:162:LEU:HG	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:CG	1:J:273:LEU:HD21	2.27	0.51
1:I:294:LEU:HD12	1:J:273:LEU:CD2	2.41	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:91:SER:O	2:W:95:MET:HG3	2.11	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: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:N	2:Q:136:ILE:HD12	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:HG23	1:I:344:THR:O	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:O	2:M:162:LEU:HG	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:96:ARG:O	2:W:111:ILE:HG23	2.12	0.50
2:W:162:LEU:HG	2:W:162:LEU:O	2.11	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:HD22	1:G:448:LEU:N	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:HG23	1:B:344:THR:O	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:HD22	1:H:448:LEU:N	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:HD13	1:L:482:LEU:H	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:459:ILE:HG21	1:L:487:THR:HG21	1.94	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:343:PHE:CB	1:L:469:GLY:C	2.42	0.50
1:K:498:VAL:CG1	1:K:502:PHE:CE1	2.95	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:418:ARG:HD3	1:A:474:LEU:CD1	2.41	0.50
1:A:464:ASN:CA	1:A:502:PHE:HZ	2.25	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:HD22	1:F:448:LEU:N	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:HD22	1:J:445:ASN:H	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:H	1:H:445:ASN:HD22	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:HD12	2:S:136:ILE:N	2.26	0.50
2:V:91:SER:O	2:V:95:MET:HG3	2.11	0.50
2:V:124:ASN:O	2:V:132:ARG:HA	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:N	1:A:448:LEU:HD22	2.26	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: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:C:344:THR:HG23	1:C:344:THR:O	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:HD22	1:E:448:LEU:N	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:HD12	2:P:147:ILE:O	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:HD22	1:G:445:ASN:H	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:HD22	1:J:448:LEU:N	2.26	0.50
1:L:228:ILE:HG13	1:L:291:LEU:HD22	1.94	0.50
2:Q:147:ILE:HD12	2:Q:147:ILE:O	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:H	1:E:445:ASN:HD22	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:294:LEU:CG	1:H:273:LEU:HD21	2.27	0.50
1:G:498:VAL:CG1	1:G:502:PHE:CE1	2.95	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:HD12	1:K:422:LEU:N	2.27	0.50
1:K:445:ASN:H	1:K:445:ASN:HD22	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:B:447:GLN:CG	1:C:508:GLU:CD	2.47	0.49
1:C:256:GLN:OE1	1:D:230:PHE:O	2.30	0.49
1:D:408:GLN:CB	1:D:413:VAL:HG12	2.42	0.49
1:E:422:LEU:HD12	1:E:422:LEU:N	2.27	0.49
1:G:257:HIS:CD2	1:H:232:LYS:CB	2.89	0.49
1:G:344:THR:O	1:G:344:THR:HG23	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
1:I:351:ASP:OD2	2:U:100:ILE:N	2.45	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
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:HD22	1:B:448:LEU:N	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:N	1:F:422:LEU:HD12	2.27	0.49
1:F:445:ASN:H	1:F:445:ASN:HD22	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:HD12	1:C:422:LEU:N	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:351:ASP:OD2	2:T:100:ILE:N	2.45	0.49
1:H:367:GLU:O	1:H:368:SER:HB3	2.11	0.49
1:H:400:GLN:HG3	1:I:478:ARG:HD3	1.94	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: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
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:HD12	2:X:147:ILE:O	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:HD22	1:D:448:LEU:N	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:HD22	1:L:448:LEU:N	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:HD22	1:A:445:ASN:H	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:294:LEU:CD1	1:C:273:LEU:HD22	2.43	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:C:294:LEU:CD1	1:D: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:D:348:ILE:HD13	1:D:391:TRP:HB3	1.95	0.49
1:D:400:GLN:HG3	1:E:478:ARG:HD3	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:F:498:VAL:CG1	1:F:502:PHE:CE1	2.95	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:H:265:LYS:NZ	1:I:245:LEU:CA	2.35	0.49
1:J:351:ASP:OD2	2:V:100:ILE:N	2.45	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: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:HD22	1:L:445:ASN:H	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:HD12	2:O:147:ILE:O	2.12	0.49
2:O:162:LEU:HG	2:O:162:LEU:O	2.11	0.49
2:R:147:ILE:HD12	2:R:147:ILE:O	2.12	0.49
2:S:97:TYR:CE1	2:S:141:ILE:HD11	2.48	0.49
1:A:422:LEU:N	1:A:422:LEU:HD12	2.27	0.49
1:C:408:GLN:CB	1:C:413:VAL:HG12	2.43	0.49
1:C:448:LEU:HD22	1:C:448:LEU:N	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:HE21	1:J:430:GLN:HB3	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:256:GLN:NE2	1:I:231:ARG:CD	2.48	0.49
1:H:348:ILE:HD13	1:H:391:TRP:HB3	1.95	0.49
1:H:430:GLN:HE21	1:H:430:GLN:HB3	1.42	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:351:ASP:OD2	2:M:100:ILE:N	2.45	0.49
1:A:481:VAL:HG22	1:A:482:LEU:N	2.28	0.49
1:C:351:ASP:OD2	2:O:100:ILE:N	2.45	0.49
1:C:408:GLN:HE22	1:C:408:GLN:HB3	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:348:ILE:HD13	1:G:391:TRP:HB3	1.95	0.49
1:G:351:ASP:OD2	2:S:100:ILE:N	2.45	0.49
1:G:352:PHE:CG	1:G:360:ILE:CG2	2.96	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:307:ASN:CB	2:V:162:LEU:HD12	2.43	0.49
1:J:348:ILE:HD13	1:J:391:TRP:HB3	1.95	0.49
1:J:352:PHE:CG	1:J:360:ILE:CG2	2.96	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:348:ILE:HD13	1:L:391:TRP:HB3	1.95	0.49
1:L:357:ILE:CA	1:L:360:ILE:HG12	2.43	0.49
1:L:464:ASN:CA	1:L:502:PHE:HZ	2.25	0.49
2:R:111:ILE:CG2	2:R:112:GLU:N	2.76	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
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:389:VAL:HG23	1:I:376:ASP:CG	2.28	0.48
1:H:464:ASN:CA	1:H:502:PHE:HZ	2.25	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:K:351:ASP:OD2	2:W:100:ILE:N	2.45	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:390:PRO:HB2	1:L:392:ASP:OD1	2.13	0.48
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
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:307:ASN:CB	2:N:162:LEU:HD12	2.43	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
2:Q:97:TYR:CE1	2:Q:141:ILE:HD11	2.48	0.48
2:Q:111:ILE:CG2	2:Q:112:GLU:N	2.76	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:HE22	1:E:408:GLN:HB3	0.98	0.48
1:F:351:ASP:OD2	2:R:100:ILE:N	2.45	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
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:HE22	1:B:408:GLN:HB3	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:D:351:ASP:OD2	2:P:100:ILE:N	2.45	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
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:H	1:F:404:LEU:CD2	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:K:400:GLN:HG3	1:L:478:ARG:HD3	1.94	0.48
1:L:351:ASP:OD2	2:X:100:ILE:N	2.45	0.48
1:L:352:PHE:CG	1:L:360:ILE:CG2	2.96	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: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:A:400:GLN:HG3	1:B:478:ARG:HD3	1.95	0.48
1:B:386:LEU:HD21	1:B:397:LEU:HD23	1.96	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:402:ARG:O	1:G:422:LEU:HD11	2.14	0.48
1:G:404:LEU:H	1:G:404:LEU:CD2	2.26	0.48
1:H:386:LEU:HD21	1:H:397:LEU:HD23	1.96	0.48
1:I:400:GLN:HG3	1:J:478:ARG:HD3	1.95	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: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:293:ARG:HH11	1:C:272:THR:HG21	1.64	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:C:386:LEU:HD21	1:C:397:LEU:HD23	1.96	0.48
1:C:390:PRO:HB2	1:C:392:ASP:OD1	2.13	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:400:GLN:HG3	1:G:478:ARG:HD3	1.95	0.48
1:F:408:GLN:HE22	1:F:408:GLN:HB3	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: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:H	1:H:404:LEU:CD2	2.26	0.48
1:H:498:VAL:HG13	1:H:502:PHE:HE1	1.79	0.48
1:I:269:LEU:HD23	1:I:269:LEU:O	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:400:GLN:HG3	1:D:478:ARG:HD3	1.95	0.47
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: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:294:LEU:CG	1:C:227:ASN:HB2	2.44	0.47
1:B:416:ALA:HB3	1:B:418:ARG:HG3	1.96	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:HE22	1:A:408:GLN:HB3	0.98	0.47
1:A:498:VAL:HG13	1:A:502:PHE:HE1	1.79	0.47
1:B:425:ASP:HA	1:B:428:PHE:HD2	1.74	0.47
1:B:428:PHE:CE1	1:B:439:GLY:N	2.83	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:HD23	1:G:269:LEU:O	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:402:ARG:O	1:K:422:LEU:HD11	2.14	0.47
1:K:416:ALA:HB3	1:K:418:ARG:HG3	1.96	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:307:ASN:CB	2:U:162:LEU:CD1	2.93	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:294:LEU:CD1	1:K:273:LEU:HD22	2.43	0.47
1:J:307:ASN:CB	2:V:162:LEU:CD1	2.93	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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
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:CE1	1:H:439:GLY:N	2.83	0.47
1:H:428:PHE:HB3	1:H:437:ASP:HA	1.95	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
1:L:307:ASN:CB	2:X:162:LEU:CD1	2.93	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: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:294:LEU:CG	1:F:227:ASN:HB2	2.44	0.47
1:E:352:PHE:CD1	1:E:360:ILE:CG2	2.95	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:HE21	1:G:430:GLN:HB3	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:227:ASN:HB2	1:L:294:LEU:CG	2.45	0.47
1:A:265:LYS:CE	1:B:245:LEU:HB3	2.26	0.47
1:A:307:ASN:CB	2:M:162:LEU:CD1	2.93	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:B:428:PHE:HB3	1:B:437:ASP:HA	1.95	0.47
1:C:293:ARG:HH11	1:D:272:THR:HG21	1.64	0.47
1:C:361:LEU:HD23	1:C:372:ILE:HB	1.96	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:457:ARG:NE	1:D:457:ARG:HA	2.30	0.47
1:D:487:THR:HG21	1:E:459:ILE:HG21	1.94	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:357:ILE:HG12	1:F:403:ASN:ND2	2.30	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:CE1	1:G:439:GLY:N	2.83	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:294:LEU:CD1	1:J:273:LEU:HD22	2.43	0.47
1:I:357:ILE:HG12	1:I:403:ASN:ND2	2.30	0.47
1:I:357:ILE:HG12	1:I:403:ASN:HD21	1.80	0.47
1:I:382:MET:HE1	1:I:384:LEU:CD1	2.44	0.47
1:I:389:VAL:HG23	1:J:376:ASP:CG	2.28	0.47
1:J:357:ILE:HG12	1:J:403:ASN:HD21	1.80	0.47
1:J:370:MET:HG3	1:J:391:TRP:HH2	1.78	0.47
1:J:451:LYS:HD3	1:J:455:GLU:OE1	2.15	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:464:ASN:HA	1:J:464:ASN:HD22	1.41	0.47
1:K:456:PHE:CD1	1:K:509:LEU:HD12	2.49	0.47
1:K:457:ARG:NE	1:K:457:ARG:HA	2.30	0.47
1:K:472:ASN:HB3	1:K:474:LEU:O	2.14	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: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:R:145:GLU:C	2:R:146:LEU:HD12	2.34	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
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:HA	1:B:457:ARG:NE	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:NE	1:F:457:ARG:HA	2.30	0.47
1:F:472:ASN:HB3	1:F:474:LEU:O	2.14	0.47
1:G:408:GLN:HG2	1:G:413:VAL:HG11	1.95	0.47
1:G:408:GLN:HE22	1:G:408:GLN:HB3	0.98	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:NE	1:I:457:ARG:HA	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:A:232:LYS:C	1:L:257:HIS:HE2	2.14	0.47
1:C:354:ASP:CA	1:C:383:THR:HG22	2.43	0.47
1:C:445:ASN:H	1:C:445:ASN:ND2	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:307:ASN:CB	2:S:162:LEU:CD1	2.93	0.47
1:G:457:ARG:NE	1:G:457:ARG:HA	2.30	0.47
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:L:408:GLN:HE22	1:L:408:GLN:HB3	0.98	0.47
1:L:457:ARG:NE	1:L:457:ARG:HA	2.30	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:343:PHE:CB	1:E:469:GLY:C	2.42	0.47
1:D:349:SER:CB	2:P:102:LYS:H	2.28	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:H:294:LEU:CD1	1:I:273:LEU:HD22	2.43	0.47
1:H:451:LYS:HD3	1:H:455:GLU:OE1	2.15	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
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:C:307:ASN:CB	2:O:162:LEU:CD1	2.93	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:357:ILE:HG12	1:J:403:ASN:ND2	2.30	0.46
1:K:294:LEU:CG	1:L:227:ASN:HB2	2.44	0.46
1:K:408:GLN:HG2	1:K:413:VAL:HG11	1.95	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
2:Q:128:GLN:HG3	2:Q:129:ASN:N	2.29	0.46
2:R:84:LYS:N	2:R:84:LYS:HD2	2.31	0.46
2:R:133:ILE:HD12	2:R:143:LEU:CA	2.45	0.46
2:S:84:LYS:N	2:S:84:LYS:HD2	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:H	1:D:445:ASN:ND2	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:307:ASN:CB	2:P:162:LEU:CD1	2.93	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:307:ASN:CB	2:R:162:LEU:CD1	2.93	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:H	1:K:445:ASN:ND2	2.13	0.46
1:K:464:ASN:HA	1:K:464:ASN:HD22	1.41	0.46
1:L:357:ILE:HG12	1:L:403:ASN:HD21	1.80	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:361:LEU:HD23	1:L:372:ILE:HB	1.96	0.46
2:N:100:ILE:HG22	2:N:101:LEU:H	1.80	0.46
2:P:128:GLN:HG3	2:P:129:ASN:N	2.29	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
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:294:LEU:HD11	1:I:227:ASN:HB2	1.98	0.46
1:H:357:ILE:HG12	1:H:403:ASN:HD21	1.80	0.46
1:I:343:PHE:CB	1:J:469:GLY:C	2.42	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:K:349:SER:CB	2:W:102:LYS:H	2.28	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:84:LYS:HD2	2:Q:84:LYS:N	2.31	0.46
2:Q:133:ILE:HD12	2:Q:143:LEU:CA	2.45	0.46
2:T:95:MET:HG2	2:T:113:ALA:CB	2.33	0.46
1:A:450:TYR:HB3	1:A:513:ALA:CB	2.45	0.46
1:A:469:GLY:HA3	1:L:343:PHE:CG	2.50	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:485:PRO:HG2	1:C:489:THR:O	2.16	0.46
1:C:487:THR:HG21	1:D:459:ILE:HG21	1.94	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:294:LEU:CG	1:G:227:ASN:HB2	2.45	0.46
1:F:464:ASN:HD21	1:F:480:SER:HB3	1.81	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:343:PHE:CG	1:H:469:GLY:HA3	2.50	0.46
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:464:ASN:HD21	1:H:480:SER:HB3	1.81	0.46
1:H:472:ASN:HB3	1:H:474:LEU:O	2.14	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:L:454:GLU:HA	1:L:457:ARG:HG2	1.98	0.46
2:O:84:LYS:HD2	2:O:84:LYS:N	2.31	0.46
2:O:100:ILE:HG22	2:O:101:LEU:H	1.81	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:95:MET:HG2	2:U:113:ALA:CB	2.33	0.46
2:U:100:ILE:HG22	2:U:101:LEU:H	1.81	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:349:SER:CB	2:N:102:LYS:H	2.28	0.46
1:B:450:TYR:HB3	1:B:513:ALA:CB	2.46	0.46
1:B:485:PRO:HG2	1:B:489:THR:O	2.16	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:357:ILE:HG12	1:D:403:ASN:HD21	1.80	0.46
1:D:371:ASN:O	1:D:413:VAL:HG22	2.15	0.46
1:D:450:TYR:HB3	1:D:513:ALA:CB	2.45	0.46
1:D:464:ASN:HD21	1:D:480:SER:HB3	1.81	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:294:LEU:CD1	1:H:273:LEU:HD22	2.43	0.46
1:G:396:ASP:O	1:G:400:GLN:HG2	2.15	0.46
1:H:408:GLN:HE22	1:H:408:GLN:HB3	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:HE22	1:K:408:GLN:HB3	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:84:LYS:N	2:N:84:LYS:HD2	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:389:VAL:HG23	1:C:376:ASP:CG	2.28	0.46
1:B:451:LYS:HD3	1:B:455:GLU:OE1	2.15	0.46
1:C:457:ARG:NE	1:C:457:ARG:HA	2.30	0.46
1:G:373:VAL:HG23	1:G:412:ILE:HD11	1.95	0.46
1:G:382:MET:HE1	1:G:384:LEU:CD1	2.45	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:357:ILE:HG12	1:K:403:ASN:ND2	2.30	0.46
1:K:361:LEU:HD23	1:K:372:ILE:HB	1.96	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:450:TYR:HB3	1:H:513:ALA:CB	2.46	0.46
1:H:494:ASP:OD1	1:H:499:ILE:HB	2.16	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:373:VAL:HG23	1:C:412:ILE:HD11	1.95	0.46
1:C:382:MET:HE1	1:C:384:LEU:CD1	2.46	0.46
1:C:464:ASN:HD21	1:C:480:SER:HB3	1.81	0.46
1:F:294:LEU:CD1	1:G:273:LEU:HD22	2.43	0.46
1:F:382:MET:HE1	1:F:384:LEU:CD1	2.46	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:HA	1:H:464:ASN:HD22	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:J:388:ASP:OD1	2:V:104:GLY:O	2.34	0.46
1:K:294:LEU:CD1	1:L:273:LEU:HD22	2.43	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:L:450:TYR:HB3	1:L:513:ALA:CB	2.46	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:HE22	1:J:408:GLN:HB3	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:349:SER:CB	2:T:102:LYS:H	2.28	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:349:SER:CB	2:V:102:LYS:H	2.28	0.45
1:J:450:TYR:HB3	1:J:513:ALA:CB	2.45	0.45
1:J:494:ASP:OD1	1:J:499:ILE:HB	2.16	0.45
1:K:293:ARG:HH11	1:L:272:THR:HG21	1.64	0.45
1:K:454:GLU:HA	1:K:457:ARG:HG2	1.98	0.45
1:K:459:ILE:CD1	1:K:509:LEU:CD1	2.94	0.45
1:K:464:ASN:HD21	1:K:480:SER:HB3	1.81	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
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
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:406:MET:CG	1:H:468:THR:HG21	2.47	0.45
1:G:511:VAL:CB	1:G:512:PRO:HD3	2.43	0.45
1:H:361:LEU:HD23	1:H:372:ILE:HB	1.96	0.45
1:H:371:ASN:O	1:H:413:VAL:HG22	2.15	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:H	1:I:445:ASN:ND2	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:227:ASN:HB2	1:L:294:LEU:HD11	1.98	0.45
1:A:294:LEU:HA	1:B:273:LEU:HD23	1.97	0.45
1:A:294:LEU:HD11	1:B:227:ASN:HB2	1.98	0.45
1:A:369:GLY:HA2	1:A:391:TRP:CZ2	2.51	0.45
1:A:389:VAL:HG23	1:B:376:ASP:CG	2.28	0.45
1:A:465:ALA:CA	1:A:475:ILE:CD1	2.94	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: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:347:LYS:CE	2:P:104:GLY:N	2.67	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: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

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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:450:TYR:HB2	1:A:510:ASP:OD1	2.16	0.45
1:A:468:THR:HG21	1:L:406:MET:CG	2.46	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:406:MET:CG	1:F:468:THR:HG21	2.46	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: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:450:TYR:HB2	1:I:510:ASP:OD1	2.16	0.45
1:I:485:PRO:HG2	1:I:489:THR:O	2.16	0.45
1:J:361:LEU:CD2	1:J:372:ILE:CG2	2.94	0.45
1:J:515:GLN:HE21	1:J:515:GLN:HB3	1.56	0.45
1:K:343:PHE:HB3	1:L:471:ARG:H	1.82	0.45
1:L:459:ILE:CD1	1:L:509:LEU:CD1	2.94	0.45
1:L:464:ASN:HD21	1:L:480:SER:HB3	1.81	0.45
2:N:97:TYR:CZ	2:N:141:ILE:HD11	2.52	0.45
2:N:145:GLU:O	2:N:146:LEU:HD12	2.16	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:N	2:U:84:LYS:HD2	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:388:ASP:OD1	2:N:104:GLY:O	2.34	0.45
1:B:481:VAL:O	1:B:481:VAL:HG13	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:294:LEU:CD1	1:E:273:LEU:HD22	2.43	0.45
1:D:424:LYS:CE	1:D:441:LEU:HD12	2.17	0.45
1:D:431:ALA:CB	1:D:436:ALA:CB	2.95	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:E:445:ASN:H	1:E:445:ASN:ND2	2.13	0.45
1:E:481:VAL:O	1:E:481:VAL:HG13	2.17	0.45
1:F:294:LEU:HD11	1:G:227:ASN:HB2	1.98	0.45
1:F:430:GLN:HE21	1:F:430:GLN:HB3	1.42	0.45
1:G:349:SER:CB	2:S:102:LYS:H	2.28	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:361:LEU:CD1	1:J:374:ALA:HB2	2.47	0.45
1:J:369:GLY:HA2	1:J:391:TRP:CZ2	2.51	0.45
1:J:450:TYR:CE2	1:J:514:GLN:CG	2.96	0.45
1:L:481:VAL:O	1:L:481:VAL:HG13	2.17	0.45
1:L:485:PRO:HG2	1:L:489:THR:O	2.16	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
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:A:471:ARG:H	1:L:343:PHE:HB3	1.82	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:459:ILE:CD1	1:C:509:LEU:CD1	2.94	0.45
1:C:494:ASP:OD2	1:C:498:VAL:HB	2.17	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:388:ASP:OD1	2:R:104:GLY:O	2.34	0.45
1:F:448:LEU:CD1	1:F:506:ILE:CG2	2.94	0.45
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: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:H:406:MET:CB	1:I:468:THR:HG21	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:I:481:VAL:O	1:I:481:VAL:HG13	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
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:97:TYR:CZ	2:S:141:ILE:HD11	2.52	0.45
2:S:100:ILE:HG22	2:S:101:LEU:H	1.81	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:459:ILE:CD1	1:B:509:LEU:CD1	2.94	0.45
1:B:494:ASP:OD2	1:B:498:VAL:HB	2.17	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:G:388:ASP:OD1	2:S:104:GLY:O	2.34	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:J:343:PHE:HB3	1:K:471:ARG:H	1.82	0.45
1:J:406:MET:CG	1:K:468:THR:HG21	2.47	0.45
1:K:361:LEU:CD1	1:K:374:ALA:HB2	2.47	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:481:VAL:O	1:K:481:VAL:HG13	2.17	0.45
1:L:402:ARG:CG	1:L:422:LEU:HD11	2.47	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:448:LEU:CD1	1:B:506:ILE:CG2	2.94	0.45
1:B:467:THR:OG1	1:B:476:SER:HB2	2.17	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:260:ILE:HD12	1:L:302:ILE:HB	1.99	0.45
1:L:285:PRO:HG2	1:L:324:VAL:HG12	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:260:ILE:HD12	1:D:302:ILE:HB	1.99	0.45
1:D:284:THR:HB	1:D:285:PRO:HD2	1.98	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:E:388:ASP:OD1	2:Q:104:GLY:O	2.34	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:255:GLN:CG	1:F:310:LEU:HD23	2.47	0.45
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
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:B:343:PHE:HB3	1:C:471:ARG:H	1.82	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:C:498:VAL:HG12	1:C:502:PHE:CE1	2.52	0.45
1:D:481:VAL:O	1:D:481:VAL:HG13	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:273:LEU:HD23	1:L:294:LEU:HA	1.97	0.44
1:A:349:SER:CB	2:M:102:LYS:H	2.28	0.44
1:A:481:VAL:O	1:A:481:VAL:HG13	2.17	0.44
1:D:382:MET:HE1	1:D:384:LEU:CD1	2.47	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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:L:349:SER:CB	2:X:102:LYS:H	2.28	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
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:A:431:ALA:CB	1:A:436:ALA:CB	2.95	0.44
1:B:450:TYR:HB2	1:B:510:ASP:OD1	2.16	0.44
1:B:465:ALA:HA	1:B:475:ILE:HG12	1.98	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:343:PHE:HB3	1:H:471:ARG:H	1.82	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: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:O	1:J:481:VAL:HG13	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:97:TYR:CZ	2:U:141:ILE:HD11	2.52	0.44
2:U:126:LEU:HD11	2:U:133:ILE:N	2.32	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:240:ILE:HD11	1:C:286:VAL:HG21	1.99	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: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:97:TYR:CZ	2:W:141:ILE:HD11	2.52	0.44
2:W:161:LEU:HD22	2:W:162:LEU:C	2.38	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:O	1:C:483:ILE:HG13	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:406:MET:CB	1:F:468:THR:HG21	2.47	0.44
1:E:421:LEU:HD23	1:E:421:LEU:HA	1.80	0.44
1:E:430:GLN:HE21	1:E:430:GLN:HB3	1.42	0.44
1:E:496:ARG:CA	1:E:499:ILE:HG22	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:406:MET:CG	1:I:468:THR:HG21	2.46	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: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:CD	1:L:440:ALA:CA	2.93	0.44
1:L:424:LYS:CG	1:L:428:PHE:CZ	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:O	1:E:483:ILE:HG13	2.17	0.44
1:G:361:LEU:HD23	1:G:361:LEU:O	2.18	0.44
1:G:464:ASN:HA	1:G:464:ASN:HD22	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:95:MET:HG2	2:V:113:ALA:CB	2.33	0.44
2:V:136:ILE:HG22	2:V:137:THR:H	1.82	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:406:MET:CG	1:D:468:THR:HG21	2.46	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: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:490:LEU:CD2	1:I:506:ILE:HD11	2.44	0.44
1:I:498:VAL:HG12	1:I:502:PHE:CE1	2.52	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:343:PHE:HB3	1:E:471:ARG:H	1.82	0.44
1:D:431:ALA:HB1	1:D:436:ALA:CB	2.48	0.44
1:E:343:PHE:HB3	1:F:471:ARG:H	1.82	0.44
1:F:285:PRO:HG2	1:F:324:VAL:HG12	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:343:PHE:HB3	1:G:471:ARG:H	1.82	0.44
1:F:481:VAL:O	1:F:481:VAL:HG13	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:HD23	1:D:361:LEU:O	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:O	1:F:483:ILE:HG13	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:A:468:THR:HG22	1:L:406:MET:HB3	1.96	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:257:HIS:HE2	1:H:232:LYS:C	2.14	0.44
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:HD23	1:I:361:LEU:O	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:HD23	1:L:361:LEU:O	2.18	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:HE21	1:A:430:GLN:HB3	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:373:VAL:HG23	1:A:412:ILE:HD11	1.95	0.43
1:A:406:MET:HB3	1:B:468:THR:HG22	1.96	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:HE21	1:L:515:GLN:HB3	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:349:SER:CB	2:R:102:LYS:H	2.28	0.43
1:F:361:LEU:HD23	1:F:361:LEU:O	2.18	0.43
1:F:428:PHE:HE1	1:F:439:GLY:CA	2.31	0.43
1:G:483:ILE:O	1:G:483:ILE:HG13	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
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:406:MET:CG	1:C:468:THR:HG21	2.46	0.43
1:B:424:LYS:HG2	1:B:428:PHE:CE2	2.54	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:A:406:MET:CG	1:B:468:THR:HG21	2.47	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: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:E:447:GLN:NE2	1:F:505:LEU:HD13	2.34	0.43
1:F:361:LEU:CG	1:F:372:ILE:CG2	2.97	0.43
1:F:406:MET:CG	1:G:468:THR:HG21	2.46	0.43
1:G:237:ALA:HB2	1:G:325:LEU:HD23	2.00	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:HE21	1:D:515:GLN:HB3	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:J:406:MET:CB	1:K:468:THR:HG21	2.47	0.43
1:K:349:SER:OG	2:W:102:LYS:HG3	2.12	0.43
2:Q:95:MET:HG2	2:Q:113:ALA:CB	2.33	0.43
2:Q:145:GLU:HG3	2:Q:146:LEU:N	2.34	0.43
2:R:141:ILE:HG13	2:R:161:LEU:CD1	2.49	0.43
2:X:141:ILE:HG13	2:X:161:LEU:CD1	2.49	0.43
2:X:158:LYS:HG2	2:X:159:ALA:N	2.34	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: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:C:447:GLN:NE2	1:D:505:LEU:HD13	2.34	0.43
1:C:473:THR:CG2	1:C:474:LEU:N	2.82	0.43
1:D:424:LYS:HG2	1:D:428:PHE:CE2	2.54	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:388:ASP:OD1	2:T:104:GLY:CA	2.67	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:293:ARG:HH11	1:K:272:THR:HG21	1.64	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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:507:ASP:O	1:L:511:VAL:HG23	2.19	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:257:HIS:HD2	1:C:232:LYS:HB2	1.78	0.42
1:B:388:ASP:OD1	2:N:104:GLY:CA	2.67	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:F:388:ASP:OD1	2:R:104:GLY:CA	2.67	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:K:406:MET:CG	1:L:468:THR:HG21	2.46	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
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
2:S:129:ASN:CG	2:S:147:ILE:HG22	2.40	0.42
2:T:91:SER:C	2:T:128:GLN:HB3	2.40	0.42
2:T:129:ASN:CG	2:T:147:ILE:HG22	2.40	0.42
2:U:91:SER:C	2:U:128:GLN:HB3	2.40	0.42
2:U:139:ASP:OD1	2:U:163:LEU:HB3	2.19	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:E:388:ASP:OD1	2:Q:104:GLY:CA	2.67	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:428:PHE:CD1	1:J:437:ASP:O	2.72	0.42
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
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:A:270:PRO:HD3	1:L:295:ASN:HD21	1.27	0.42
1:B:396:ASP:OD2	1:C:467:THR:CG2	2.41	0.42
1:C:388:ASP:OD1	2:O:104:GLY:CA	2.67	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:450:TYR:CB	1:D:513:ALA:HB3	2.49	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: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:388:ASP:OD1	2:U:104:GLY:CA	2.67	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:L:404:LEU:HD13	1:L:419:ASP:OD2	2.19	0.42
2:M:111:ILE:N	2:M:111:ILE:CD1	2.82	0.42
2:M:141:ILE:HG13	2:M:161:LEU:CD1	2.49	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
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:256:GLN:OE1	1:B:230:PHE:C	2.56	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:361:LEU:CD2	1:A:372:ILE:CB	2.95	0.42
1:B:256:GLN:OE1	1:C:230:PHE:C	2.56	0.42
1:B:421:LEU:HD23	1:B:421:LEU:HA	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:HD23	1:H:421:LEU:HA	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:450:TYR:CB	1:J:513:ALA:HB3	2.49	0.42
1:J:483:ILE:O	1:J:483:ILE:HG13	2.17	0.42
1:K:388:ASP:OD1	2:W:104:GLY:CA	2.67	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

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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:HE21	1:B:430:GLN:HB3	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:N	1:G:482:LEU:CD1	2.82	0.42
1:K:424:LYS:CD	1:K:440:ALA:CA	2.93	0.42
1:K:428:PHE:HE1	1:K:439:GLY:N	2.18	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:424:LYS:CD	1:B:440:ALA:N	2.83	0.42
1:B:428:PHE:HE1	1:B:439:GLY:N	2.18	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:257:HIS:HD2	1:H:232:LYS:HB2	1.78	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:450:TYR:CE1	1:G:514:GLN:HA	2.55	0.42
1:G:511:VAL:HB	1:G:512:PRO:CD	2.46	0.42
1:J:424:LYS:CD	1:J:440:ALA:N	2.83	0.42
1:J:428:PHE:HE1	1:J:439:GLY:N	2.18	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:84:LYS:HD3	2:O:88:GLU:OE2	2.20	0.42
2:O:111:ILE:N	2:O:111:ILE:CD1	2.82	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:256:GLN:OE1	1:F:230:PHE:C	2.56	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:F:482:LEU:N	1:F:482:LEU:CD1	2.82	0.42
1:G:256:GLN:OE1	1:H:230:PHE:C	2.56	0.42
1:H:256:GLN:OE1	1:I:230:PHE:C	2.56	0.42
1:H:428:PHE:CD1	1:H:437:ASP:O	2.72	0.42
1:J:355:VAL:CA	1:J:381:LYS:HG3	2.50	0.42
1:J:361:LEU:CG	1:J:372:ILE:CG2	2.97	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:HD23	1:C:384:LEU:HA	1.91	0.42
1:F:256:GLN:OE1	1:G:230:PHE:C	2.56	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: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:84:LYS:HD3	2:Q:88:GLU:OE2	2.20	0.42
2:Q:141:ILE:O	2:Q:160:GLU:HA	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:HE21	1:D:430:GLN:HB3	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:448:LEU:CD1	1:L:506:ILE:CG2	2.94	0.42
1:L:465:ALA:N	1:L:475:ILE:CD1	2.82	0.42
1:L:516:VAL:CG2	1:L:517:MET:N	2.74	0.42
2:O:91:SER:C	2:O:128:GLN:HB3	2.40	0.42
2:O:129:ASN:CG	2:O:147:ILE:HG22	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:N	2:T:111:ILE:CD1	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:B:347:LYS:CE	2:N:104:GLY:N	2.67	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:511:VAL:HB	1:F:512:PRO:CD	2.46	0.41
1:I:256:GLN:OE1	1:J:230:PHE:C	2.56	0.41
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: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
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:84:LYS:HD3	2:X:88:GLU:OE2	2.20	0.41
2:X:141:ILE:O	2:X:160:GLU:HG3	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:HD12	1:D:239:ILE:N	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:84:LYS:HD3	2:S:88:GLU:OE2	2.20	0.41
2:S:141:ILE:HG13	2:S:161:LEU:CD1	2.49	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:B:445:ASN:HD22	1:C:501:LYS:HE3	1.85	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: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:N	1:E:482:LEU:CD1	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:N	2:W:111:ILE:CD1	2.82	0.41
1:A:445:ASN:HD22	1:B:501:LYS:HE3	1.85	0.41
1:B:239:ILE:N	1:B:239:ILE:HD12	2.35	0.41
1:B:476:SER:HB3	1:B:477:GLY:H	1.61	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:HD12	1:H:239:ILE:N	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: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:Q:110:PHE:C	2:Q:111:ILE:HD12	2.40	0.41
2:R:97:TYR:CE1	2:R:99:GLY:O	2.74	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:R:111:ILE:N	2:R:111:ILE:CD1	2.82	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:HA	1:C:464:ASN:HD22	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:N	1:L:239:ILE:HD12	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:97:TYR:CE1	2:P:99:GLY:O	2.74	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: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:97:TYR:CE1	2:U:99:GLY:O	2.74	0.41
2:U:141:ILE:O	2:U:160:GLU:HG3	2.20	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:A:468:THR:HG21	1:L:406:MET:CB	2.47	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:501:LYS:HE3	1:L:445:ASN:HD22	1.85	0.41
1:C:347:LYS:CE	2:O:104:GLY:N	2.67	0.41
1:C:424:LYS:CD	1:C:440:ALA:N	2.83	0.41
1:C:445:ASN:HD22	1:D:501:LYS:HE3	1.85	0.41
1:C:512:PRO:HA	1:C:515:GLN:CD	2.41	0.41
1:D:256:GLN:OE1	1:E:230:PHE:C	2.56	0.41
1:D:382:MET:HE3	1:D:382:MET:HB2	1.91	0.41
1:D:406:MET:CG	1:E:468:THR:HG21	2.47	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:E:355:VAL:CA	1:E:381:LYS:HG3	2.50	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:I:406:MET:CB	1:J:468:THR:HG21	2.47	0.41
1:J:465:ALA:N	1:J:475:ILE:CD1	2.82	0.41
1:K:343:PHE:CG	1:L:469:GLY:HA3	2.50	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
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:I:406:MET:CG	1:J:468:THR:HG21	2.46	0.41
1:J:442:TYR:CD2	1:J:443:SER:O	2.74	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:N	2:P:126:LEU:CD1	2.83	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Q:111:ILE:N	2:Q:111:ILE:CD1	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:HD23	1:B:384:LEU:HA	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:HD12	1:G:261:ILE:N	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:N	1:J:482:LEU:CD1	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:97:TYR:CE1	2:M:99:GLY:O	2.74	0.41
2:M:137:THR:O	2:M:140:SER:O	2.39	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:84:LYS:HD3	2:T:88:GLU:OE2	2.20	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: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: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:A:355:VAL:CA	1:A:381:LYS:HG3	2.50	0.41
1:A:378:VAL:HG23	1:A:379:ASN:N	2.36	0.41
1:A:398:VAL:HG12	1:A:403:ASN:ND2	2.36	0.41
1:A:404:LEU:H	1:A:404:LEU:CD2	2.26	0.41
1:B:355:VAL:CA	1:B:381:LYS:HG3	2.50	0.41
1:B:404:LEU:H	1:B:404:LEU:CD2	2.26	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:406:MET:HE3	1:B:415:ILE:HD11	2.03	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:HD23	1:C:421:LEU:HA	1.80	0.41
1:D:428:PHE:CZ	1:D:439:GLY:O	2.74	0.41
1:D:442:TYR:CD2	1:D:443:SER:O	2.74	0.41
1:D:445:ASN:HD22	1:E:501:LYS:HE3	1.85	0.41
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: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: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:H:349:SER:CB	2:T:102:LYS:HG2	2.48	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:HD12	1:J:261:ILE:N	2.36	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:J:476:SER:HB3	1:J:477:GLY:H	1.61	0.41
1:K:445:ASN:HD22	1:L:501:LYS:HE3	1.85	0.41
1:L:378:VAL:HG23	1:L:379:ASN:N	2.36	0.41
1:L:512:PRO:HA	1:L:515:GLN:CD	2.41	0.41
2:N:97:TYR:CE1	2:N:99:GLY:O	2.74	0.41
2:N:131:GLY:HA2	2:N:145:GLU:CB	2.51	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:P:146:LEU:HG	2:P:156:SER:CA	2.51	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:84:LYS:HD3	2:R:88:GLU:OE2	2.20	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
2:T:120:VAL:HG11	2:T:126:LEU:HB3	2.02	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:126:LEU:O	2:V:131:GLY:HA3	2.20	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:X:126:LEU:O	2:X: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:HD12	1:C:239:ILE:N	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:388:ASP:C	1:F:376:ASP:OD2	2.53	0.41
1:E:512:PRO:HA	1:E:515:GLN:CD	2.41	0.41
1:F:433:LYS:HG2	1:F:435:ILE:H	1.86	0.41
1:F:515:GLN:HE21	1:F:515:GLN:HB3	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:256:GLN:CD	1:I:231:ARG:HD2	2.29	0.41
1:H:343:PHE:CD2	1:H:343:PHE:O	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:I:261:ILE:HD12	1:I:261:ILE:N	2.36	0.41
1:I:450:TYR:CE1	1:I:514:GLN:HA	2.55	0.41
1:I:463:ASP:OD2	1:I:502:PHE:CZ	2.74	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:O	2:Q:107:VAL:HG13	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:N	1:D:482:LEU:CD1	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:355:VAL:CA	1:H:381:LYS:HG3	2.50	0.40
1:H:361:LEU:CD2	1:H:372:ILE:HG22	2.49	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:92:LEU:HD12	2:Q: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:HD22	2:Q:126:LEU:C	2.42	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:HD22	2:S:126:LEU:C	2.42	0.40
2:T:126:LEU:HD22	2:T:126:LEU:C	2.42	0.40
2:U:126:LEU:HD22	2:U:126:LEU:C	2.42	0.40
2:U:131:GLY:HA2	2:U:145:GLU:CB	2.51	0.40
1:A:343:PHE:CD2	1:A:343:PHE:O	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:373:VAL:HG23	1:E:412:ILE:HD11	1.95	0.40
1:E:398:VAL:HG12	1:E:403:ASN:ND2	2.36	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:HE21	1:I:515:GLN:HB3	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:H	1:C:404:LEU:CD2	2.25	0.40
1:D:255:GLN:HG3	1:D:310:LEU:HD23	2.04	0.40
1:E:239:ILE:HD12	1:E:239:ILE:N	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:HD22	2:P:126:LEU:C	2.42	0.40
2:R:87:LEU:HD12	2:R:95:MET:HE1	2.02	0.40
2:R:120:VAL:HG11	2:R:126:LEU:HB3	2.02	0.40
2:S:90:PHE:CD2	2:S:114:GLU:HB2	2.56	0.40
2:T:97:TYR:CE1	2:T:99:GLY:O	2.74	0.40
2:T:107:VAL:HG13	2:T:107:VAL:O	2.21	0.40
2:T:118:TYR:HE2	2:T:126:LEU:HA	1.87	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:HD12	1:C:261:ILE:N	2.36	0.40
1:C:450:TYR:CE1	1:C:514:GLN:HA	2.55	0.40
1:C:499:ILE:HG23	1:C:500:GLU:N	2.36	0.40
1:E:255:GLN:HG3	1:E:310:LEU:HD23	2.03	0.40
1:E:261:ILE:HD12	1:E:261:ILE:N	2.36	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:463:ASP:OD2	1:G:502:PHE:CZ	2.74	0.40
1:G:481:VAL:CG1	1:G:493:THR:HB	2.51	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:H	1:L:404:LEU:CD2	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:HG13	2:P:107:VAL:O	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:92:LEU:HD12	2:R:95:MET:HB2	2.03	0.40
2:R:137:THR:O	2:R:140:SER:O	2.39	0.40
2:S:120:VAL:HG11	2:S:126:LEU:HB3	2.02	0.40
2:S:122:VAL:HG13	2:S:122:VAL:O	2.22	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:257:HIS:HD2	1:G:232:LYS:HB2	1.78	0.40
1:F:445:ASN:HD22	1:G:501:LYS:HE3	1.85	0.40
1:F:450:TYR:CE1	1:F:514:GLN:HA	2.55	0.40
1:F:499:ILE:HG23	1:F:500:GLU:N	2.36	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:H:445:ASN:HD22	1:I:501:LYS:HE3	1.85	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: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:O	2:V:107:VAL:HG13	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 [i](#)

5.3.1 Protein backbone [i](#)

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	271/745 (36%)	235 (87%)	29 (11%)	7 (3%)	5	31
1	B	271/745 (36%)	235 (87%)	29 (11%)	7 (3%)	5	31
1	C	271/745 (36%)	235 (87%)	29 (11%)	7 (3%)	5	31
1	D	271/745 (36%)	235 (87%)	29 (11%)	7 (3%)	5	31
1	E	271/745 (36%)	235 (87%)	29 (11%)	7 (3%)	5	31
1	F	271/745 (36%)	235 (87%)	29 (11%)	7 (3%)	5	31
1	G	271/745 (36%)	235 (87%)	29 (11%)	7 (3%)	5	31
1	H	271/745 (36%)	235 (87%)	29 (11%)	7 (3%)	5	31
1	I	271/745 (36%)	235 (87%)	29 (11%)	7 (3%)	5	31
1	J	271/745 (36%)	235 (87%)	29 (11%)	7 (3%)	5	31
1	K	271/745 (36%)	235 (87%)	29 (11%)	7 (3%)	5	31
1	L	271/745 (36%)	235 (87%)	29 (11%)	7 (3%)	5	31
2	M	80/181 (44%)	51 (64%)	19 (24%)	10 (12%)	0	5
2	N	80/181 (44%)	51 (64%)	19 (24%)	10 (12%)	0	5
2	O	80/181 (44%)	51 (64%)	19 (24%)	10 (12%)	0	5
2	P	80/181 (44%)	51 (64%)	19 (24%)	10 (12%)	0	5
2	Q	80/181 (44%)	51 (64%)	19 (24%)	10 (12%)	0	5
2	R	80/181 (44%)	51 (64%)	19 (24%)	10 (12%)	0	5
2	S	80/181 (44%)	51 (64%)	19 (24%)	10 (12%)	0	5
2	T	80/181 (44%)	51 (64%)	19 (24%)	10 (12%)	0	5
2	U	80/181 (44%)	51 (64%)	19 (24%)	10 (12%)	0	5
2	V	80/181 (44%)	51 (64%)	19 (24%)	10 (12%)	0	5
2	W	80/181 (44%)	51 (64%)	19 (24%)	10 (12%)	0	5
2	X	80/181 (44%)	51 (64%)	19 (24%)	10 (12%)	0	5
All	All	4212/11112 (38%)	3432 (82%)	576 (14%)	204 (5%)	4	21

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 [i](#)

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	239/615 (39%)	216 (90%)	23 (10%)	8	27
1	B	239/615 (39%)	216 (90%)	23 (10%)	8	27
1	C	239/615 (39%)	216 (90%)	23 (10%)	8	27
1	D	239/615 (39%)	216 (90%)	23 (10%)	8	27
1	E	239/615 (39%)	216 (90%)	23 (10%)	8	27
1	F	239/615 (39%)	216 (90%)	23 (10%)	8	27
1	G	239/615 (39%)	216 (90%)	23 (10%)	8	27
1	H	239/615 (39%)	216 (90%)	23 (10%)	8	27
1	I	239/615 (39%)	216 (90%)	23 (10%)	8	27
1	J	239/615 (39%)	216 (90%)	23 (10%)	8	27
1	K	239/615 (39%)	216 (90%)	23 (10%)	8	27
1	L	239/615 (39%)	216 (90%)	23 (10%)	8	27
2	M	71/152 (47%)	59 (83%)	12 (17%)	2	12
2	N	71/152 (47%)	59 (83%)	12 (17%)	2	12
2	O	71/152 (47%)	59 (83%)	12 (17%)	2	12
2	P	71/152 (47%)	59 (83%)	12 (17%)	2	12
2	Q	71/152 (47%)	59 (83%)	12 (17%)	2	12
2	R	71/152 (47%)	59 (83%)	12 (17%)	2	12
2	S	71/152 (47%)	59 (83%)	12 (17%)	2	12
2	T	71/152 (47%)	59 (83%)	12 (17%)	2	12
2	U	71/152 (47%)	59 (83%)	12 (17%)	2	12
2	V	71/152 (47%)	59 (83%)	12 (17%)	2	12
2	W	71/152 (47%)	59 (83%)	12 (17%)	2	12
2	X	71/152 (47%)	59 (83%)	12 (17%)	2	12
All	All	3720/9204 (40%)	3300 (89%)	420 (11%)	9	21

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

Sometimes 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 [i](#)

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates [i](#)

There are no monosaccharides in this entry.

5.6 Ligand geometry [i](#)

There are no ligands in this entry.

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

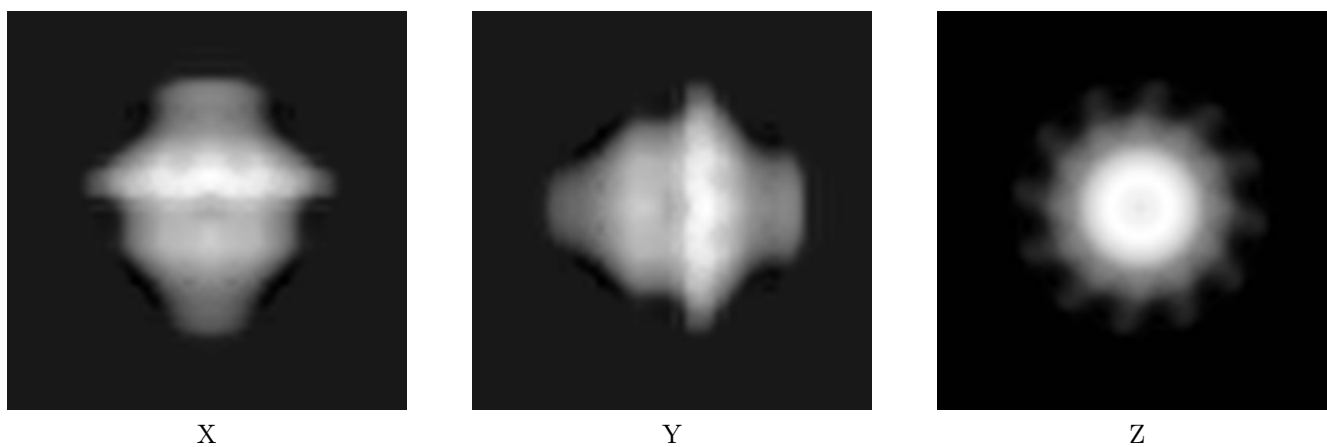
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-2105. These allow visual inspection of the internal detail of the map and identification of artifacts.

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

6.1 Orthogonal projections [i](#)

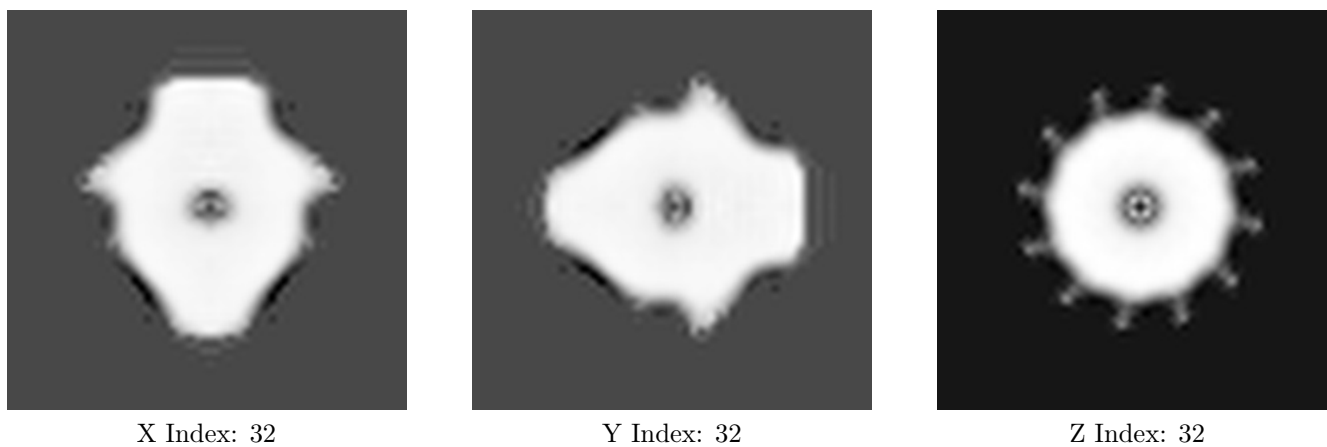
6.1.1 Primary map



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

6.2 Central slices [i](#)

6.2.1 Primary map



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

6.3 Largest variance slices [i](#)

6.3.1 Primary map



X Index: 32



Y Index: 32



Z Index: 36

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

6.4 Orthogonal surface views [i](#)

6.4.1 Primary map



X



Y



Z

The images above show the 3D surface view of the map at the recommended contour level 0.28. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

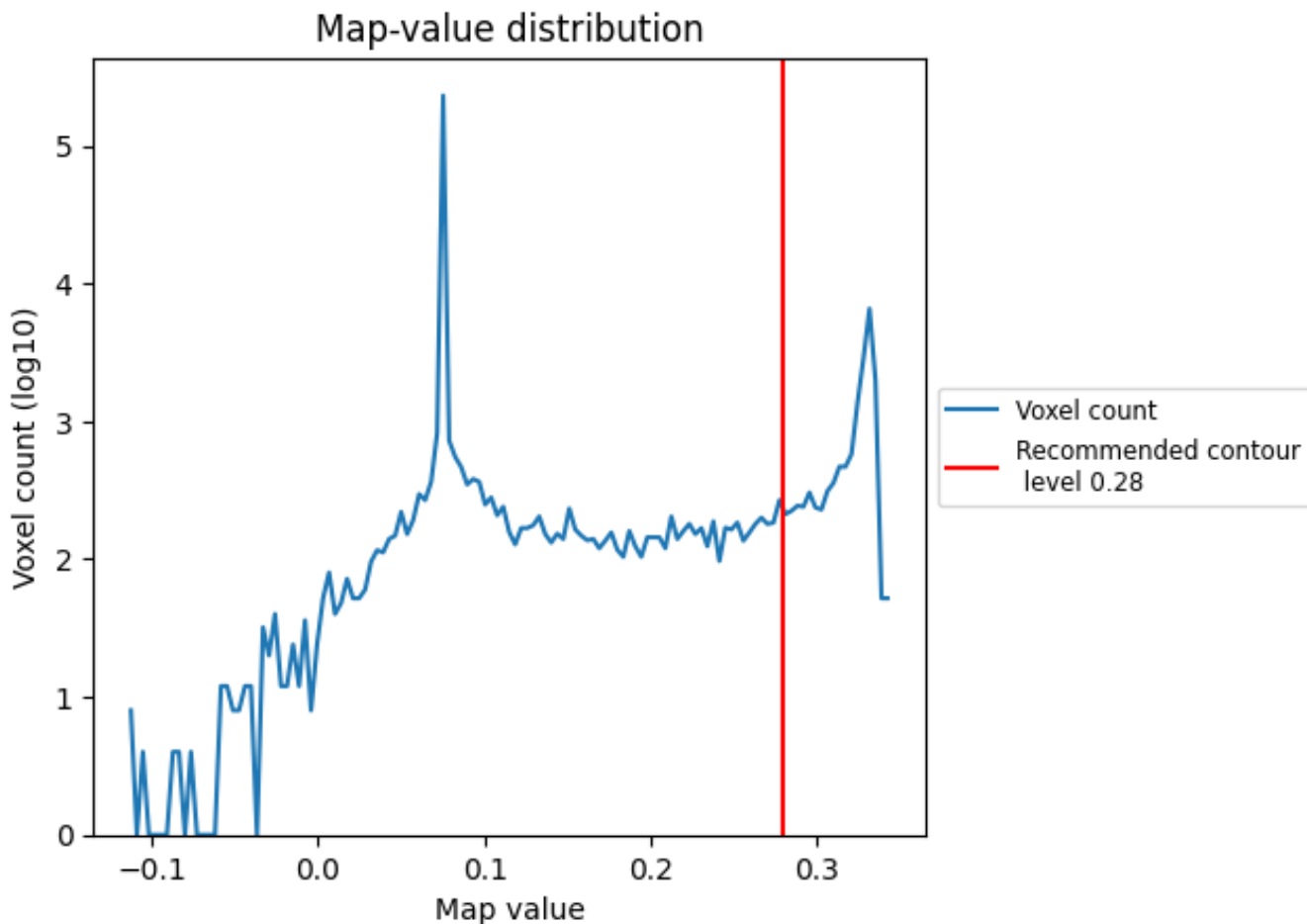
6.5 Mask visualisation

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

7 Map analysis [i](#)

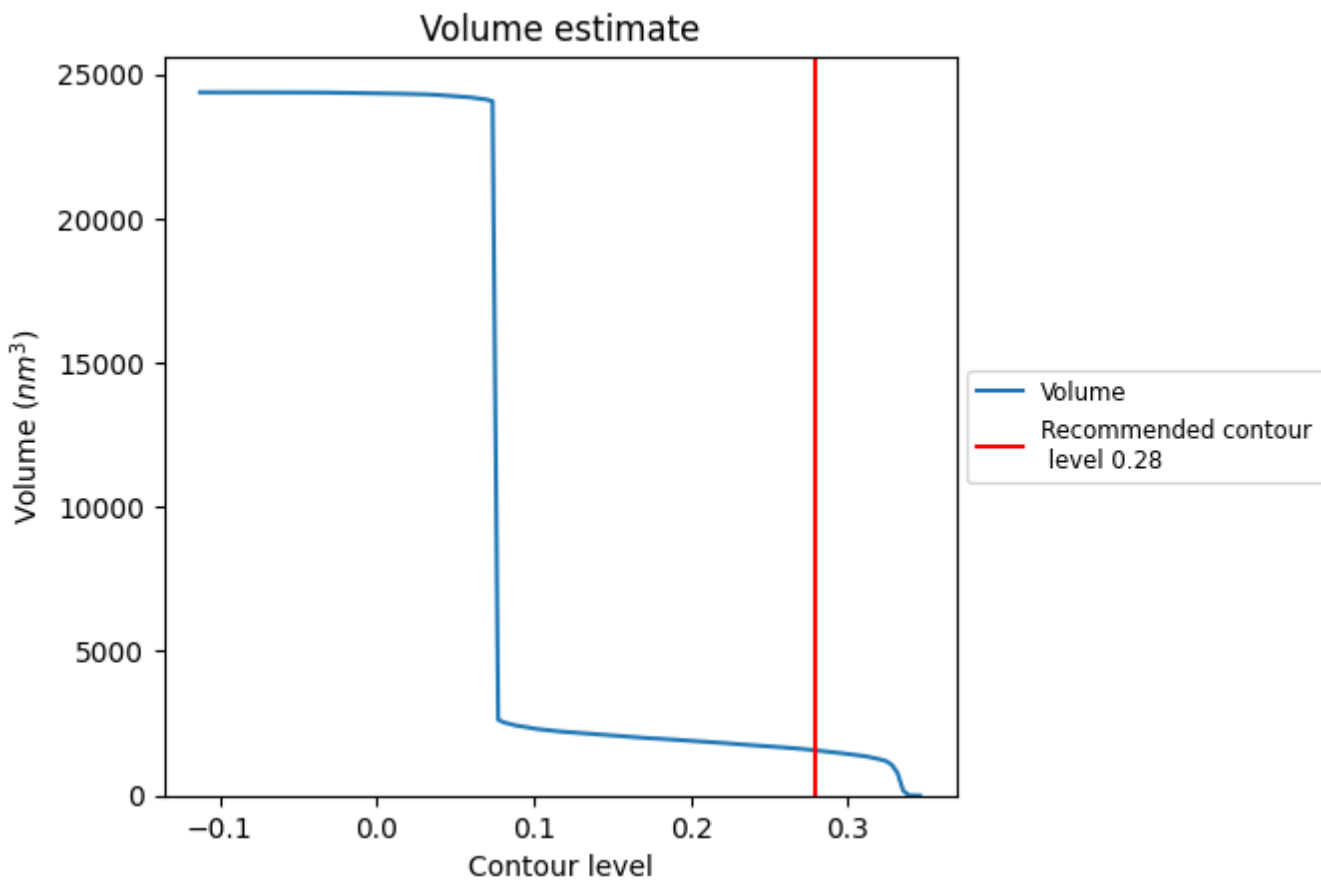
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution [i](#)



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

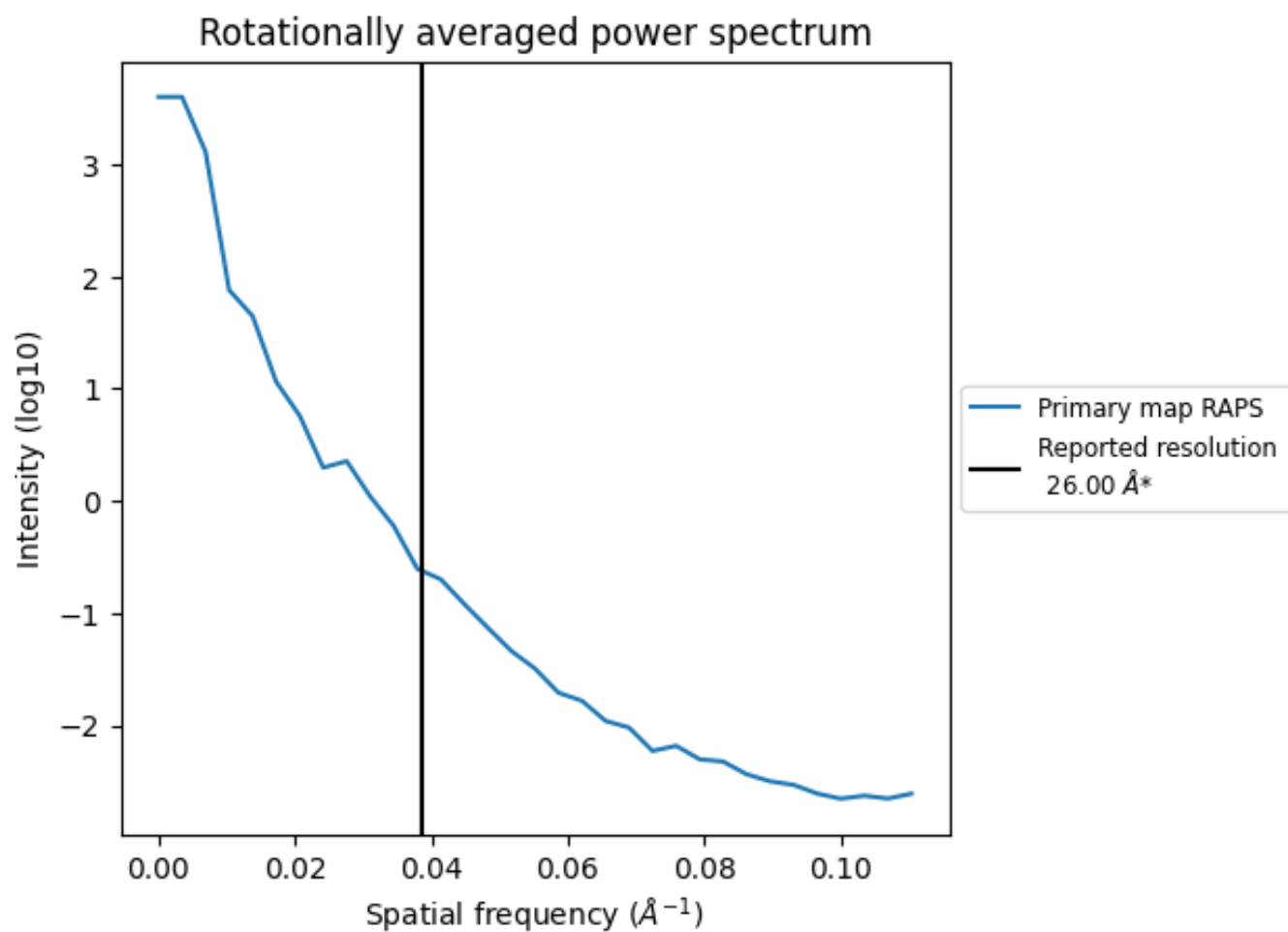
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 1565 nm³; this corresponds to an approximate mass of 1414 kDa.

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

7.3 Rotationally averaged power spectrum [i](#)



*Reported resolution corresponds to spatial frequency of 0.038 Å⁻¹

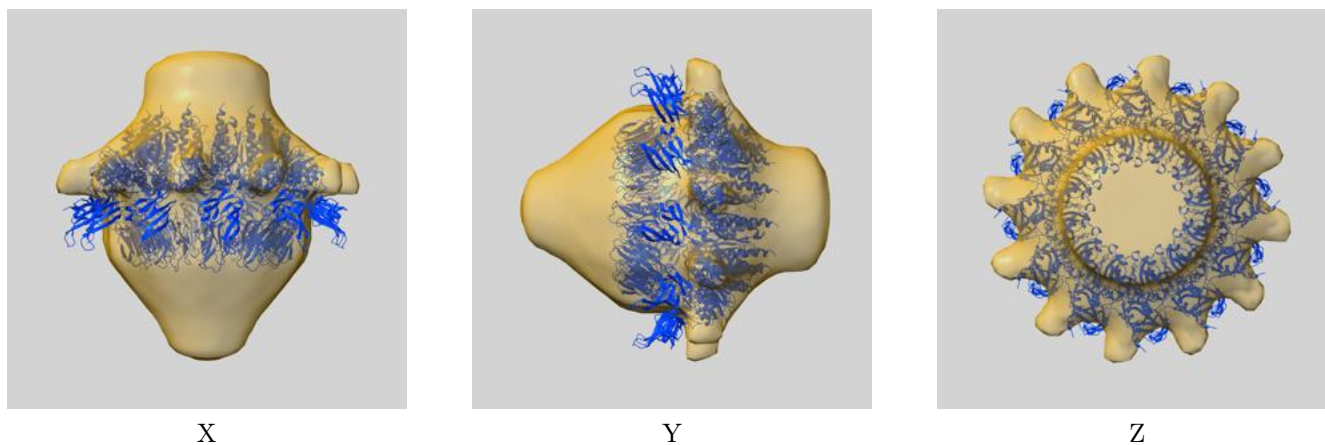
8 Fourier-Shell correlation

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

9 Map-model fit [i](#)

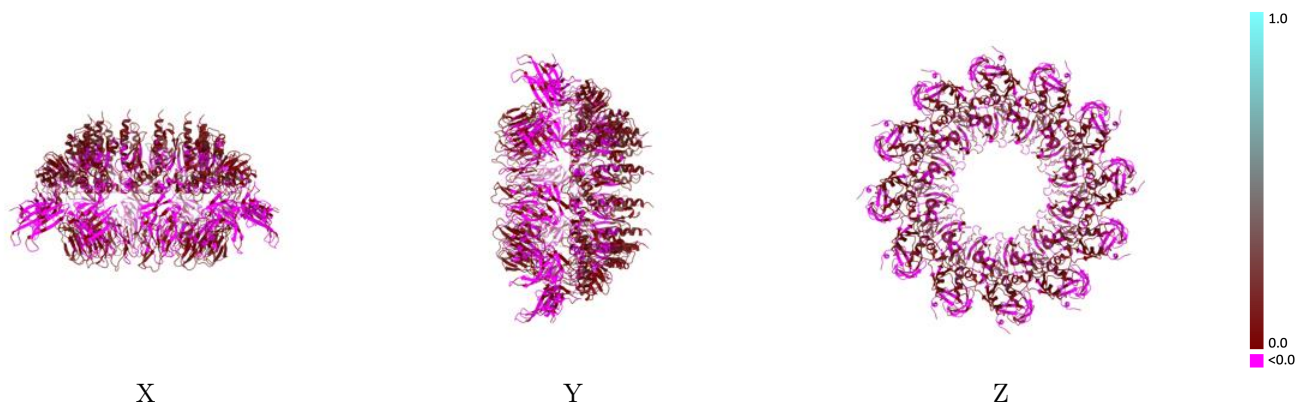
This section contains information regarding the fit between EMDB map EMD-2105 and PDB model 4AV2. Per-residue inclusion information can be found in section 3 on page 6.

9.1 Map-model overlay [i](#)



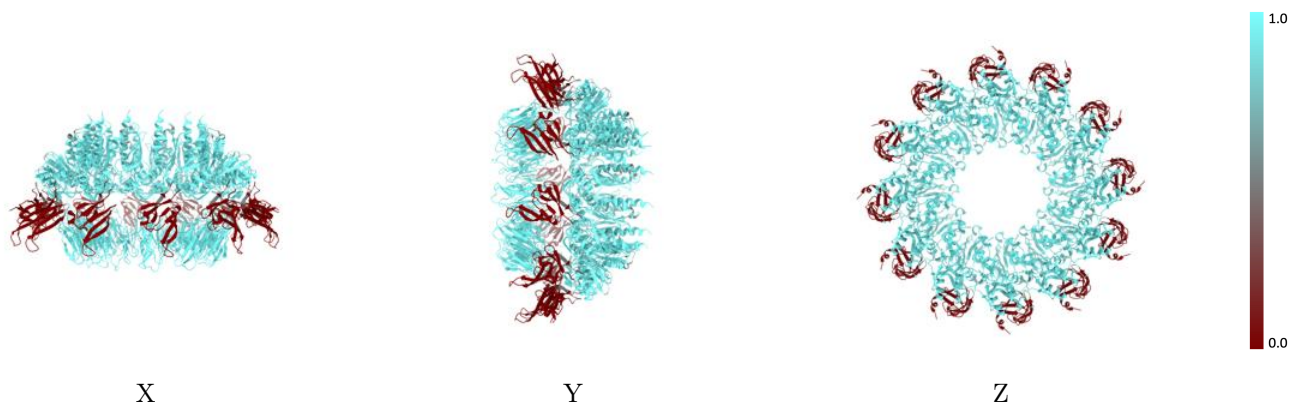
The images above show the 3D surface view of the map at the recommended contour level 0.28 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

9.2 Q-score mapped to coordinate model [\(i\)](#)



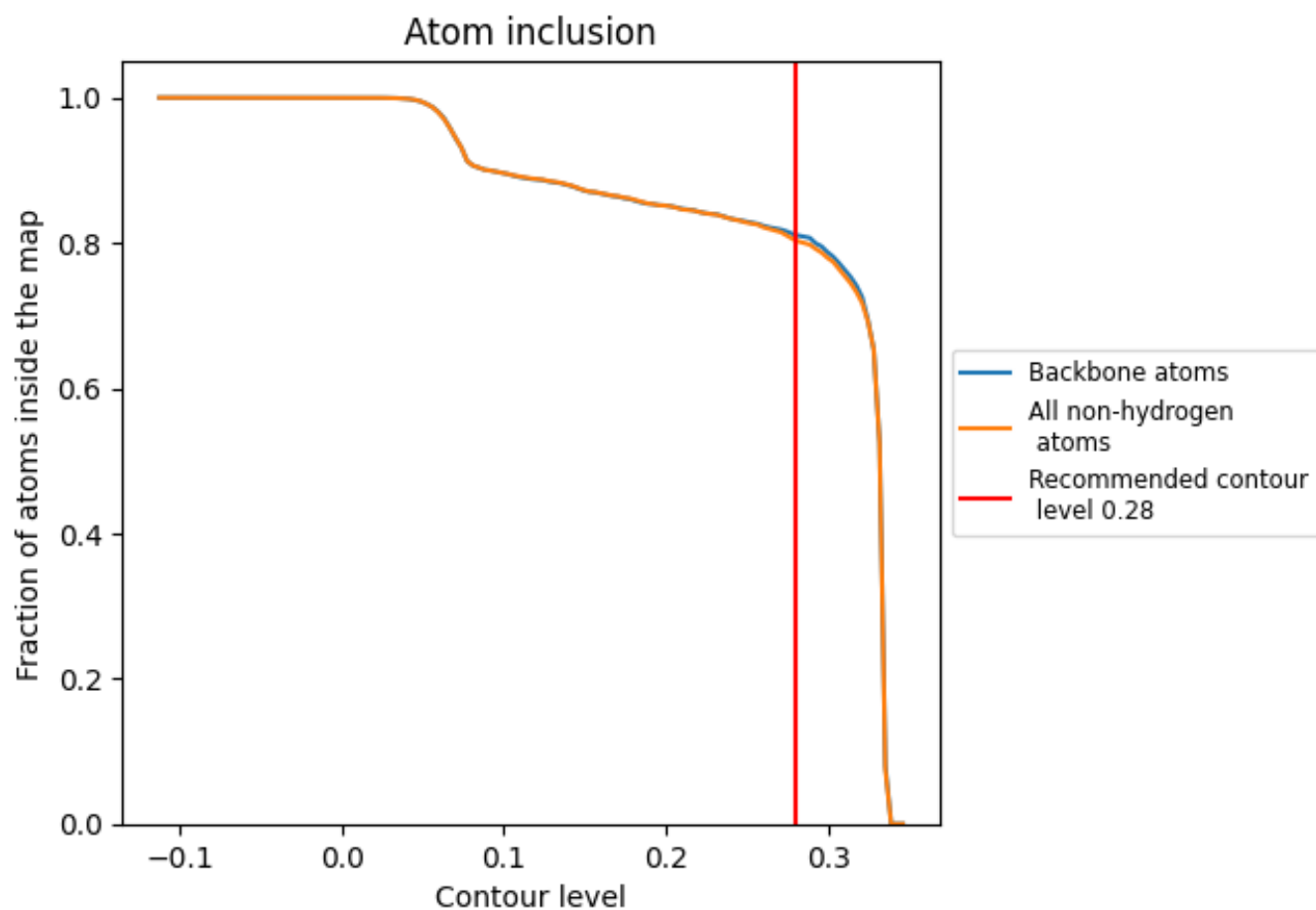
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions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

9.3 Atom inclusion mapped to coordinate model [\(i\)](#)



The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (0.28).



















































9.4 Atom inclusion [i](#)



At the recommended contour level, 81% of all backbone atoms, 80% of all non-hydrogen atoms, are inside the map.

9.5 Map-model fit summary

The table lists the average atom inclusion at the recommended contour level (0.28) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	 0.8032	 0.0380
A	 0.9891	 0.0630
B	 0.9887	 0.0590
C	 0.9887	 0.0650
D	 0.9891	 0.0620
E	 0.9887	 0.0600
F	 0.9887	 0.0650
G	 0.9891	 0.0620
H	 0.9887	 0.0600
I	 0.9887	 0.0660
J	 0.9891	 0.0640
K	 0.9887	 0.0610
L	 0.9887	 0.0640
M	 0.0902	 -0.0540
N	 0.0902	 -0.0460
O	 0.0902	 -0.0540
P	 0.0902	 -0.0550
Q	 0.0902	 -0.0380
R	 0.0902	 -0.0470
S	 0.0902	 -0.0440
T	 0.0902	 -0.0320
U	 0.0902	 -0.0440
V	 0.0902	 -0.0460
W	 0.0902	 -0.0370
X	 0.0902	 -0.0520

