Full wwPDB X-ray Structure Validation Report (i)

Mar 29, 2026 – 12:06 AM UTC

PDB ID	:	1W63 / pdb_00001w63
Title	:	AP1 clathrin adaptor core
Authors	:	Heldwein, E.; Macia, E.; Wang, J.; Yin, H.L.; Kirchhausen, T.; Harrison, S.C.
Deposited on	:	2004-08-12
Resolution	:	4.00 Å(reported)

This is a Full wwPDB X-ray Structure Validation Report for a publicly released PDB entry.

We welcome your comments at *validation@mail.wwpdb.org*
A user guide is available at
https://www.wwpdb.org/validation/2017/XrayValidationReportHelp
with specific help available everywhere you see the (i) 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 (i)) were used in the production of this report:

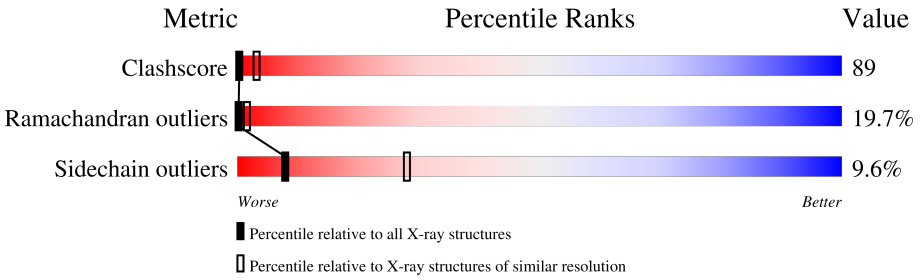
MolProbity	:	4-5-2 with Phenix2.0
Xtriage (Phenix)	:	NOT EXECUTED
EDS	:	NOT EXECUTED
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.49

1 Overall quality at a glance

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

The reported resolution of this entry is 4.00 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)	Similar resolution (#Entries, resolution range(Å))
Clashscore	190562	1129 (4.20-3.80)
Ramachandran outliers	187476	1064 (4.20-3.80)
Sidechain outliers	187428	1055 (4.20-3.80)

The table below summarises the geometric issues observed across the polymeric chains and their fit to the electron density. The red, orange, yellow and green segments of the lower bar indicate the fraction of residues that contain outliers for >=3, 2, 1 and 0 types of geometric quality criteria respectively. A grey segment represents the fraction of residues that are not modelled. The numeric value for each fraction is indicated below the corresponding segment, with a dot representing fractions <=5%

Note EDS was not executed.

Mol	Chain	Length	Quality of chain
1	A	618	10% 59% 25% • 5%
1	C	618	10% 59% 24% • 5%
1	E	618	10% 59% 24% • 5%
1	G	618	10% 58% 25% • 5%
1	I	618	10% 58% 25% • 5%
1	K	618	9% 59% 25% • 5%
2	B	584	10% 56% 29% • •
2	D	584	11% 55% 29% • •

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Mol	Chain	Length	Quality of chain
2	F	584	11% 55% 29%
2	H	584	10% 56% 28%
2	J	584	11% 56% 29%
2	L	584	11% 55% 29%
3	M	423	19% 50% 21% 8%
3	N	423	20% 51% 20% 8%
3	O	423	19% 51% 21% 8%
3	P	423	19% 51% 21% 8%
3	R	423	18% 52% 20% 8%
3	V	423	19% 51% 21% 8%
4	Q	158	18% 56% 18% 6%
4	S	158	20% 55% 18% 6%
4	T	158	19% 56% 18% 6%
4	U	158	20% 56% 18% 6%
4	W	158	20% 55% 18% 6%
4	X	158	19% 56% 18% 6%

2 Entry composition (i)

There are 4 unique types of molecules in this entry. The entry contains 81744 atoms, of which 0 are hydrogens and 0 are deuteriums.

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

- Molecule 1 is a protein called ADAPTER-RELATED PROTEIN COMPLEX 1 GAMMA 1 SUBUNIT.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	590	Total	C	N	O	S	0	0	1
			4663	2933	821	869	40			
1	C	590	Total	C	N	O	S	0	0	1
			4663	2933	821	869	40			
1	E	590	Total	C	N	O	S	0	0	1
			4663	2933	821	869	40			
1	G	590	Total	C	N	O	S	0	0	1
			4663	2933	821	869	40			
1	I	590	Total	C	N	O	S	0	0	1
			4663	2933	821	869	40			
1	K	590	Total	C	N	O	S	0	0	1
			4663	2933	821	869	40			

- Molecule 2 is a protein called ADAPTER-RELATED PROTEIN COMPLEX 1 BETA 1 SUBUNIT.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	B	576	Total	C	N	O	S	0	0	1
			4558	2907	750	874	27			
2	D	576	Total	C	N	O	S	0	0	1
			4558	2907	750	874	27			
2	F	576	Total	C	N	O	S	0	0	1
			4558	2907	750	874	27			
2	H	576	Total	C	N	O	S	0	0	1
			4558	2907	750	874	27			
2	J	576	Total	C	N	O	S	0	0	1
			4558	2907	750	874	27			
2	L	576	Total	C	N	O	S	0	0	1
			4558	2907	750	874	27			

There are 18 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
B	155	MET	LEU	conflict	UNP P52303
B	439	ASP	LEU	conflict	UNP P52303
B	459	SER	ILE	conflict	UNP P52303
D	155	MET	LEU	conflict	UNP P52303
D	439	ASP	LEU	conflict	UNP P52303
D	459	SER	ILE	conflict	UNP P52303
F	155	MET	LEU	conflict	UNP P52303
F	439	ASP	LEU	conflict	UNP P52303
F	459	SER	ILE	conflict	UNP P52303
H	155	MET	LEU	conflict	UNP P52303
H	439	ASP	LEU	conflict	UNP P52303
H	459	SER	ILE	conflict	UNP P52303
J	155	MET	LEU	conflict	UNP P52303
J	439	ASP	LEU	conflict	UNP P52303
J	459	SER	ILE	conflict	UNP P52303
L	155	MET	LEU	conflict	UNP P52303
L	439	ASP	LEU	conflict	UNP P52303
L	459	SER	ILE	conflict	UNP P52303

- Molecule 3 is a protein called ADAPTOR-RELATED PROTEIN COMPLEX 1, MU 1 SUB-UNIT.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
3	M	388	Total	C	N	O	S	0	0	0
			3166	2042	531	579	14			
3	N	388	Total	C	N	O	S	0	0	0
			3166	2042	531	579	14			
3	O	388	Total	C	N	O	S	0	0	0
			3166	2042	531	579	14			
3	P	388	Total	C	N	O	S	0	0	0
			3166	2042	531	579	14			
3	R	388	Total	C	N	O	S	0	0	0
			3166	2042	531	579	14			
3	V	388	Total	C	N	O	S	0	0	0
			3166	2042	531	579	14			

There are 12 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
M	134	PHE	TYR	conflict	UNP P35585
M	406	ILE	LEU	conflict	UNP P35585
N	134	PHE	TYR	conflict	UNP P35585
N	406	ILE	LEU	conflict	UNP P35585

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Chain	Residue	Modelled	Actual	Comment	Reference
O	134	PHE	TYR	conflict	UNP P35585
O	406	ILE	LEU	conflict	UNP P35585
P	134	PHE	TYR	conflict	UNP P35585
P	406	ILE	LEU	conflict	UNP P35585
R	134	PHE	TYR	conflict	UNP P35585
R	406	ILE	LEU	conflict	UNP P35585
V	134	PHE	TYR	conflict	UNP P35585
V	406	ILE	LEU	conflict	UNP P35585

- Molecule 4 is a protein called ADAPTER-RELATED PROTEIN COMPLEX 1 SIGMA 1A SUBUNIT.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
4	Q	149	Total	C	N	O	S	0	0	1
			1237	800	203	223	11			
4	S	149	Total	C	N	O	S	0	0	1
			1237	800	203	223	11			
4	T	149	Total	C	N	O	S	0	0	1
			1237	800	203	223	11			
4	U	149	Total	C	N	O	S	0	0	1
			1237	800	203	223	11			
4	W	149	Total	C	N	O	S	0	0	1
			1237	800	203	223	11			
4	X	149	Total	C	N	O	S	0	0	1
			1237	800	203	223	11			

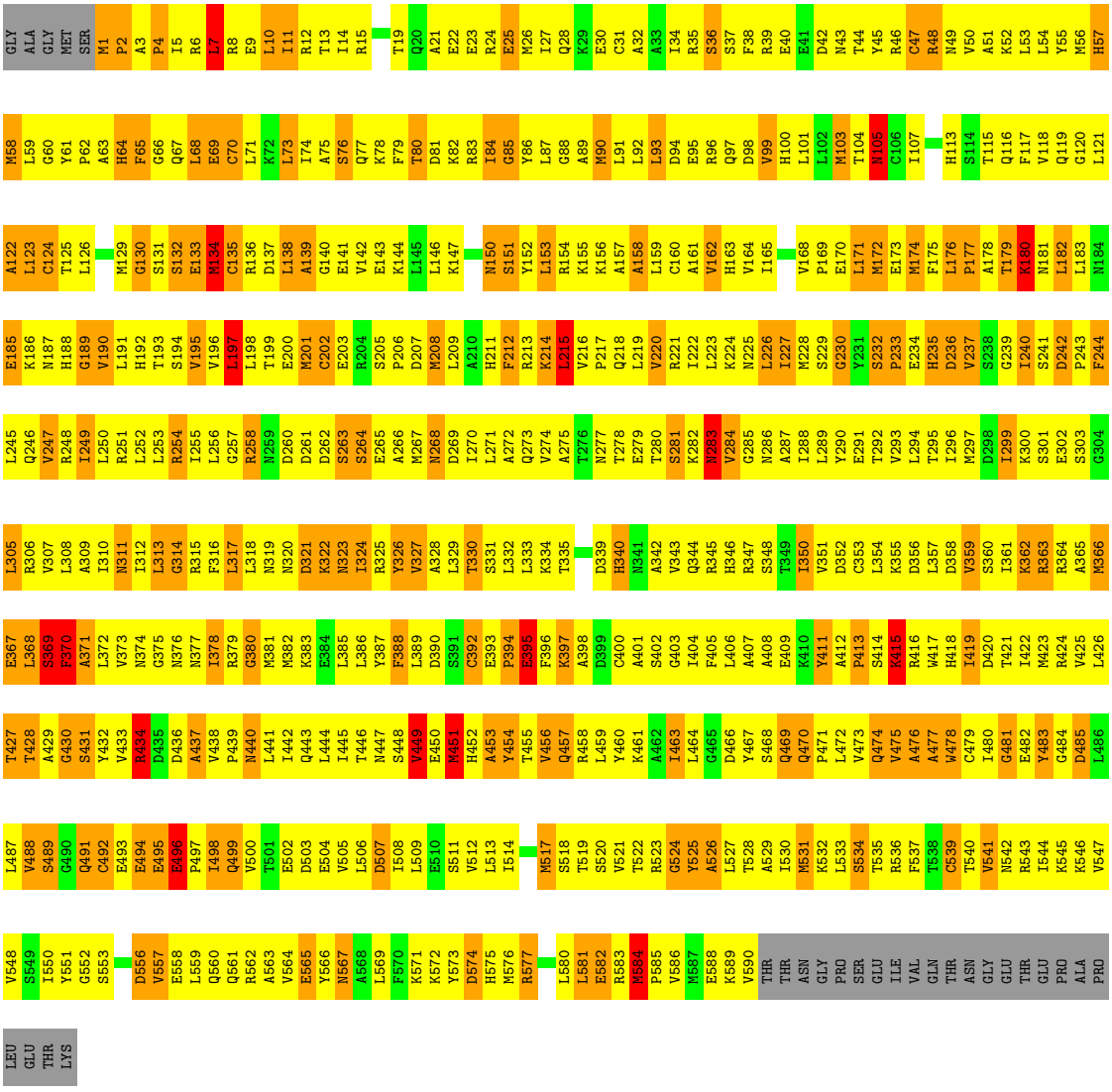
3 Residue-property plots (i)

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

Note EDS was not executed.

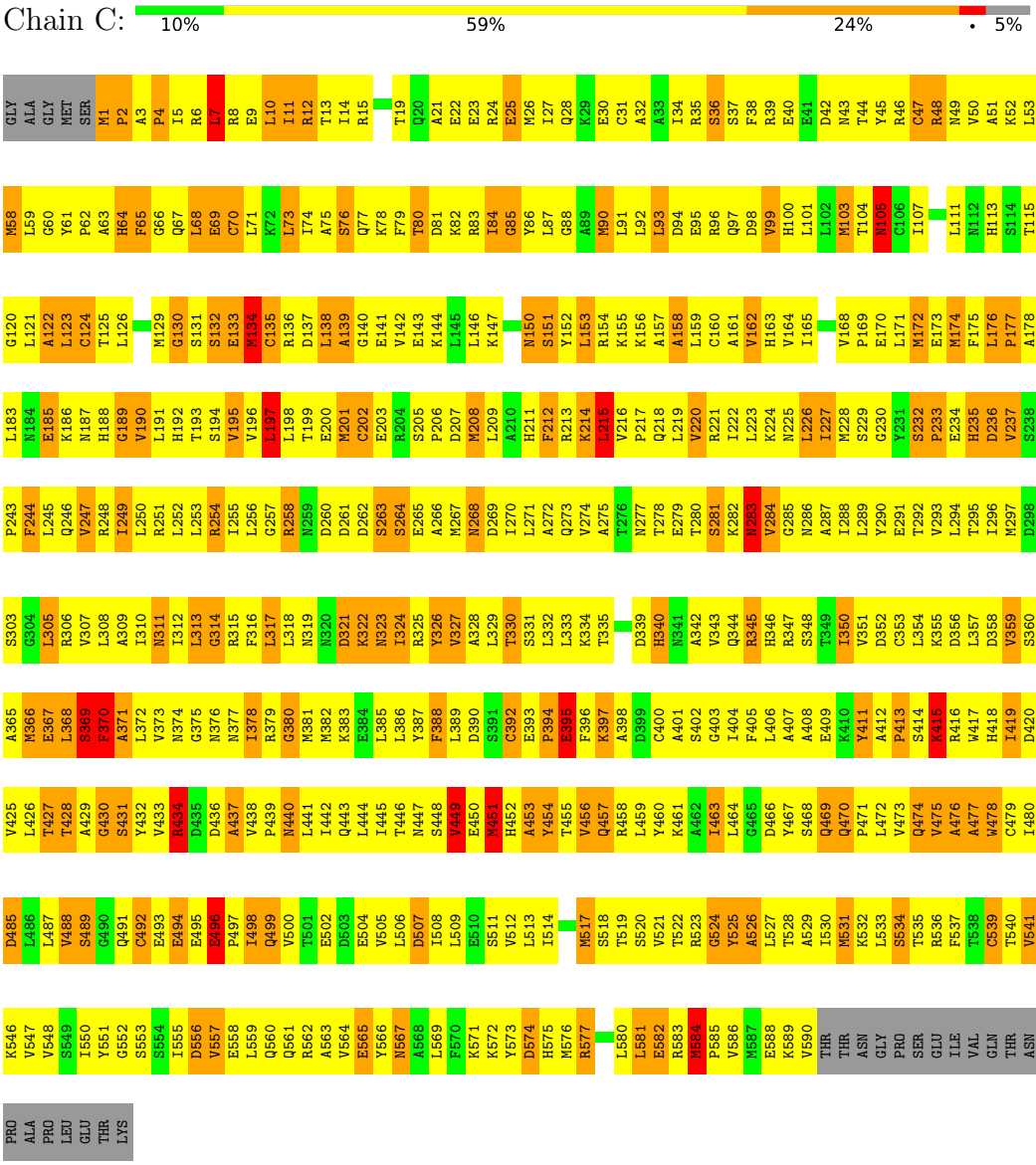
• Molecule 1: ADAPTER-RELATED PROTEIN COMPLEX 1 GAMMA 1 SUBUNIT

Chain A: 10% 59% 25% • 5%



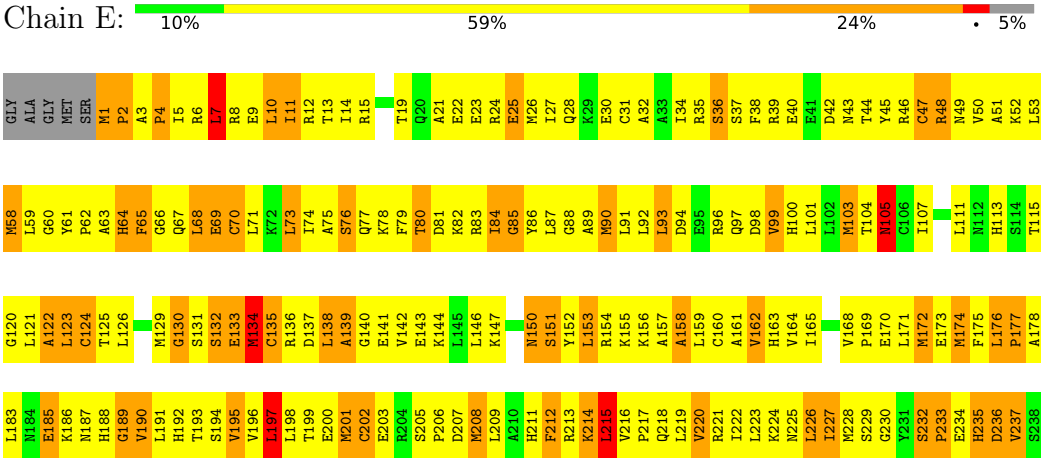
• Molecule 1: ADAPTER-RELATED PROTEIN COMPLEX 1 GAMMA 1 SUBUNIT

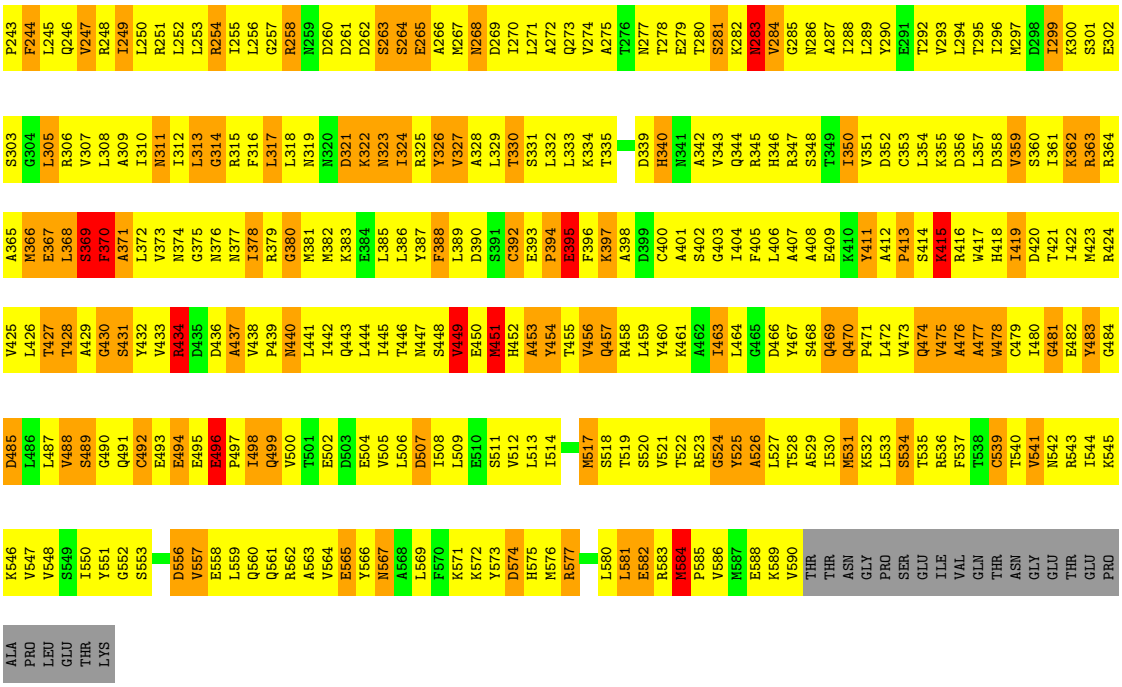
Chain C:



• Molecule 1: ADAPTER-RELATED PROTEIN COMPLEX 1 GAMMA 1 SUBUNIT

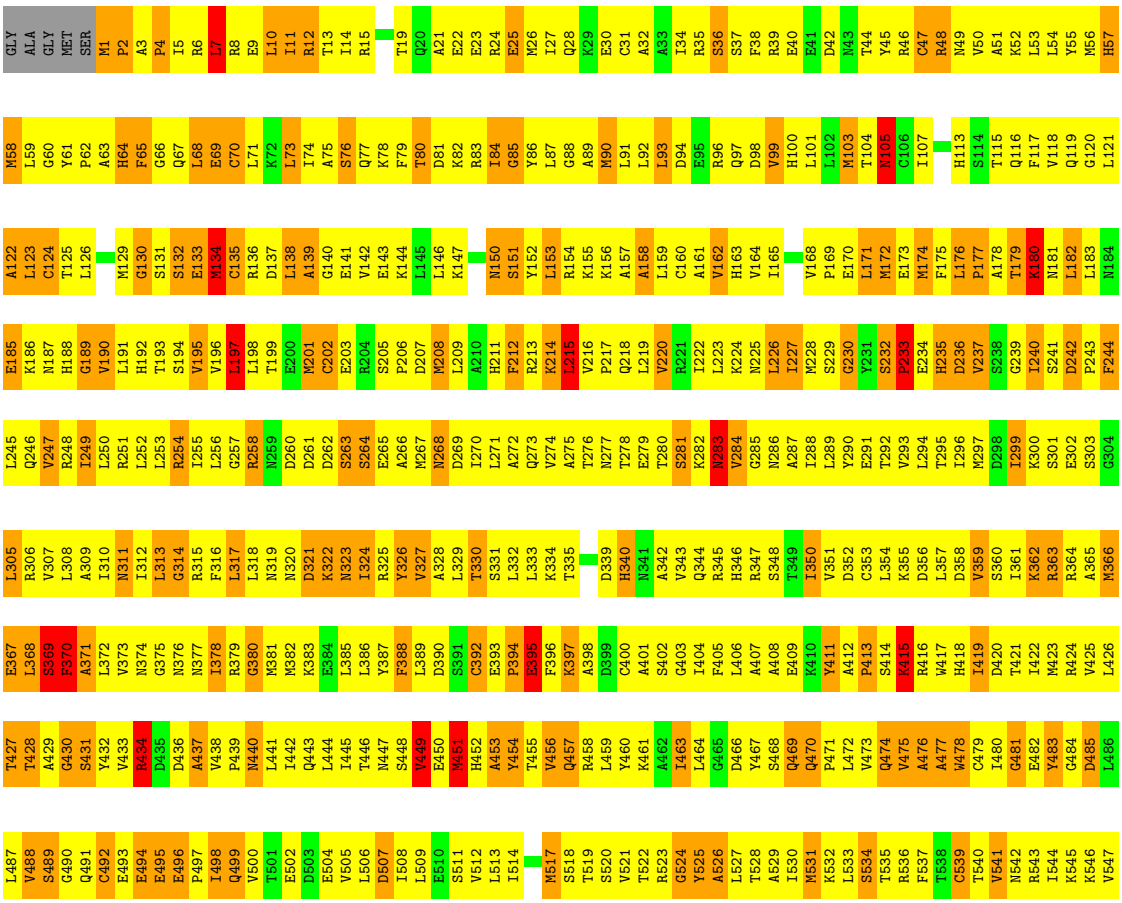
Chain E:

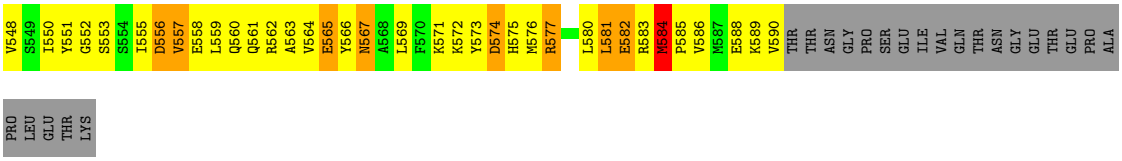




• Molecule 1: ADAPTER-RELATED PROTEIN COMPLEX 1 GAMMA 1 SUBUNIT

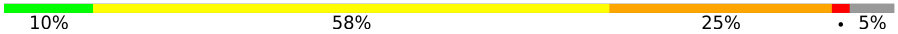
Chain G:

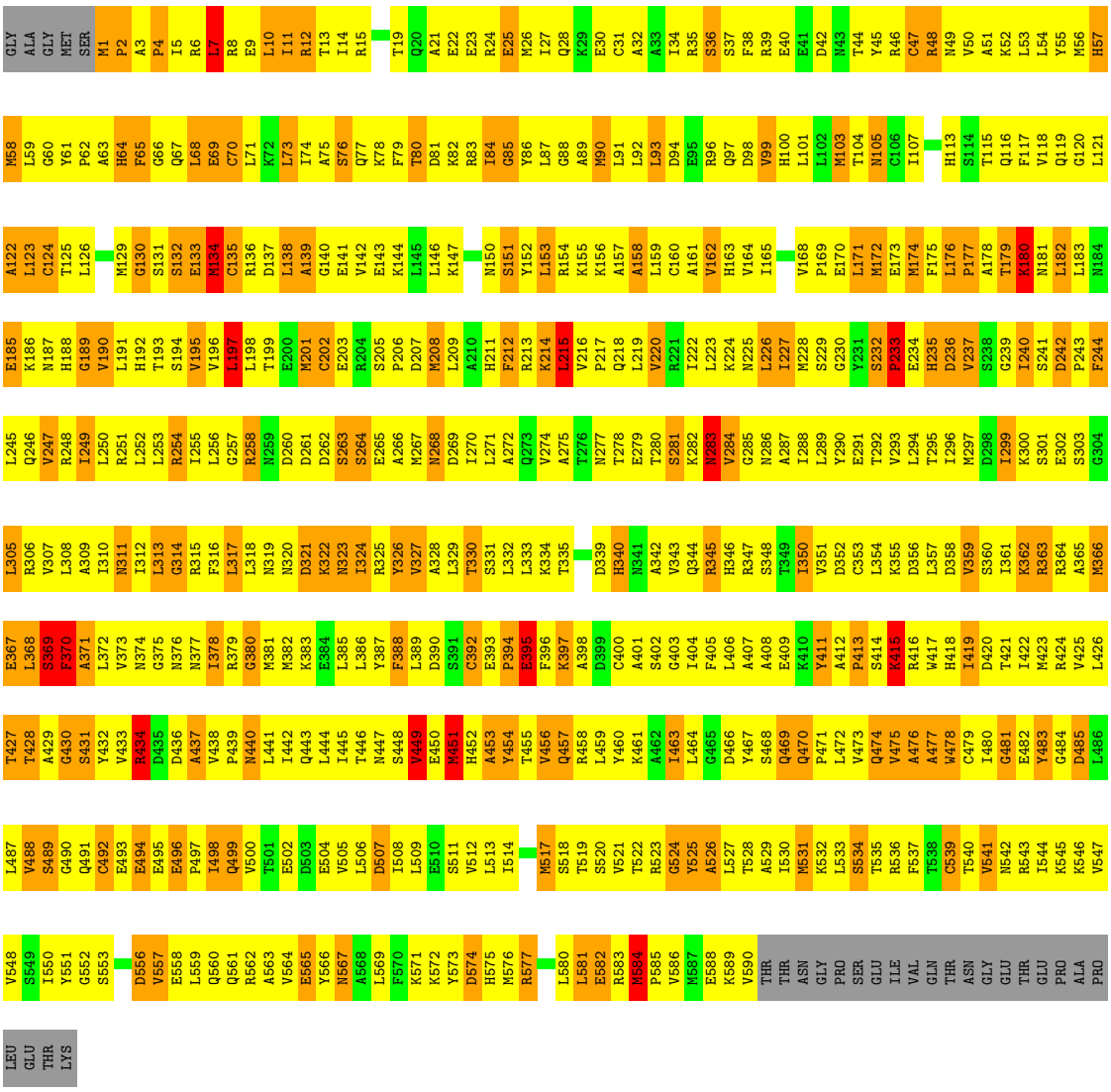




• Molecule 1: ADAPTER-RELATED PROTEIN COMPLEX 1 GAMMA 1 SUBUNIT

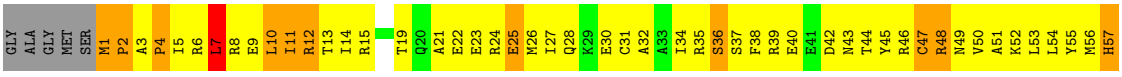
Chain I:

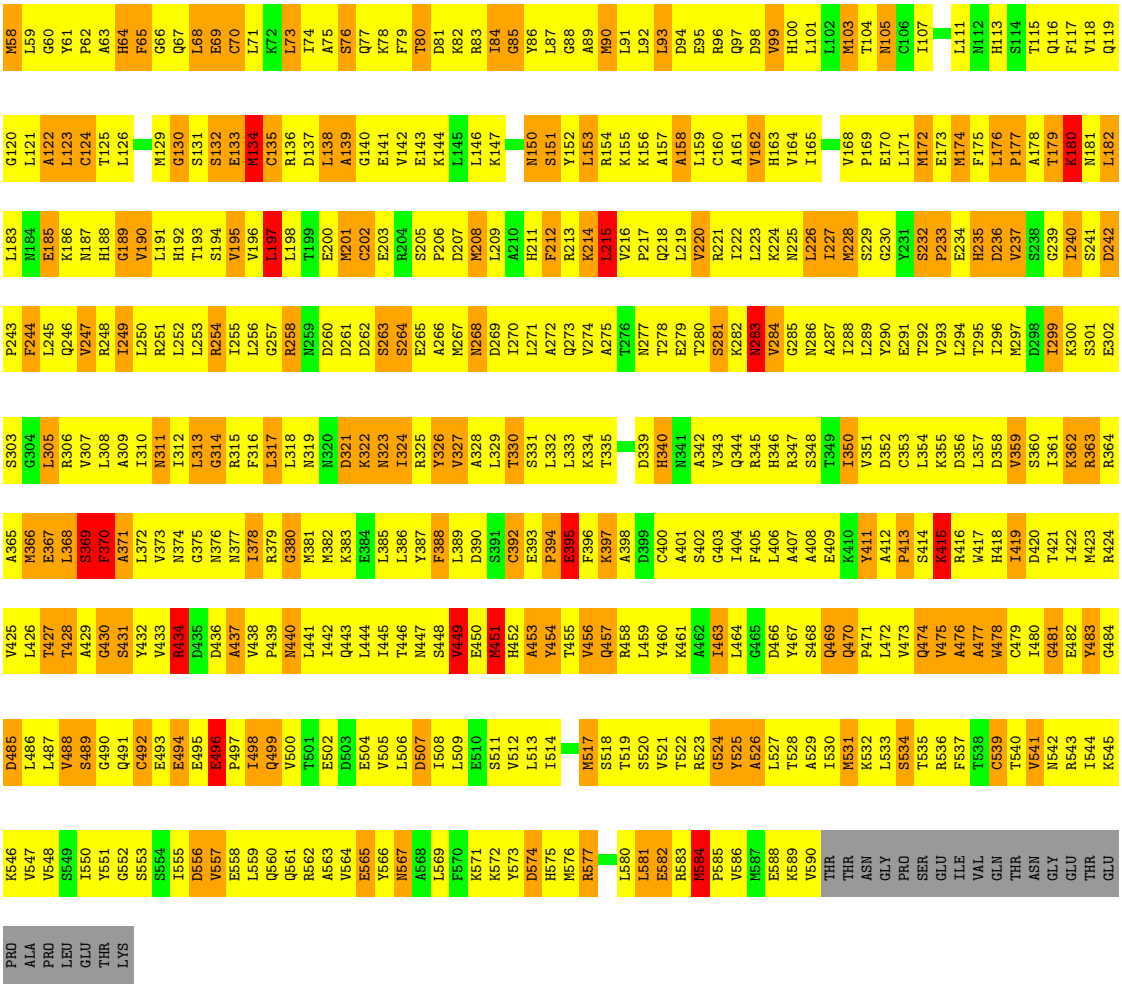




• Molecule 1: ADAPTER-RELATED PROTEIN COMPLEX 1 GAMMA 1 SUBUNIT

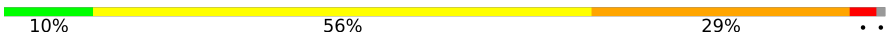
Chain K:

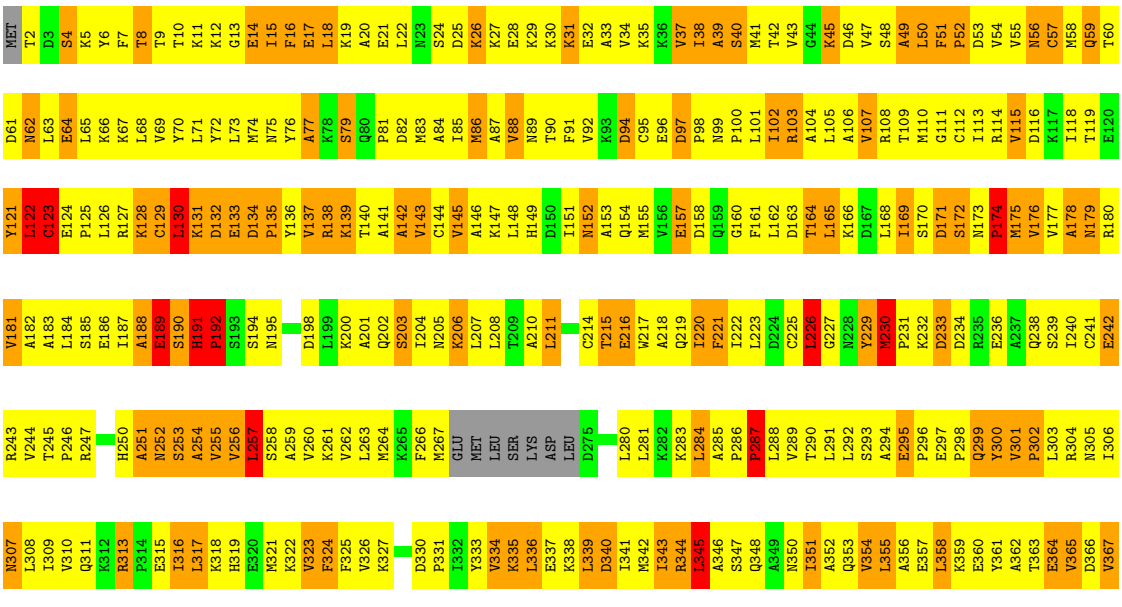


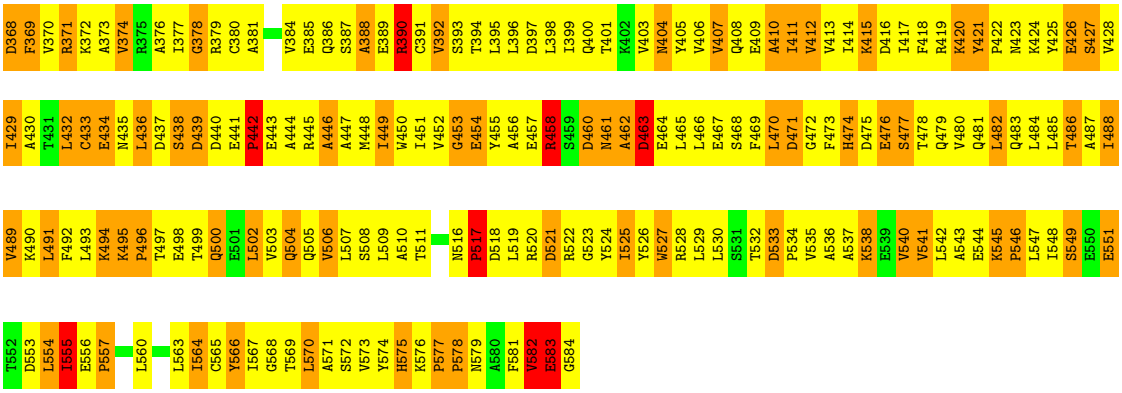


• Molecule 2: ADAPTER-RELATED PROTEIN COMPLEX 1 BETA 1 SUBUNIT

Chain B:

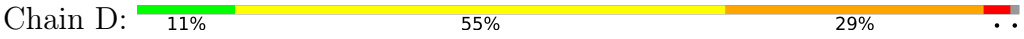


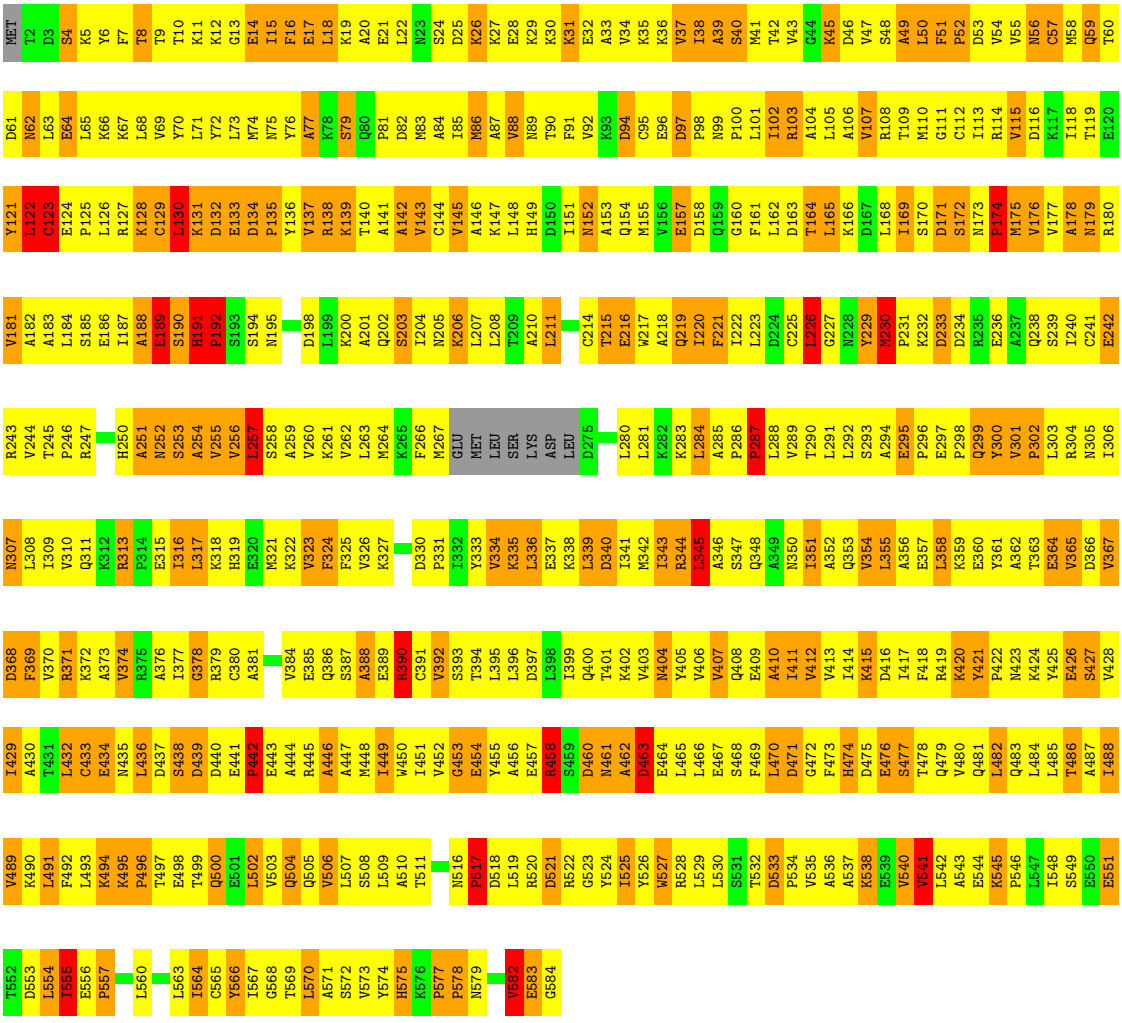




• Molecule 2: ADAPTER-RELATED PROTEIN COMPLEX 1 BETA 1 SUBUNIT

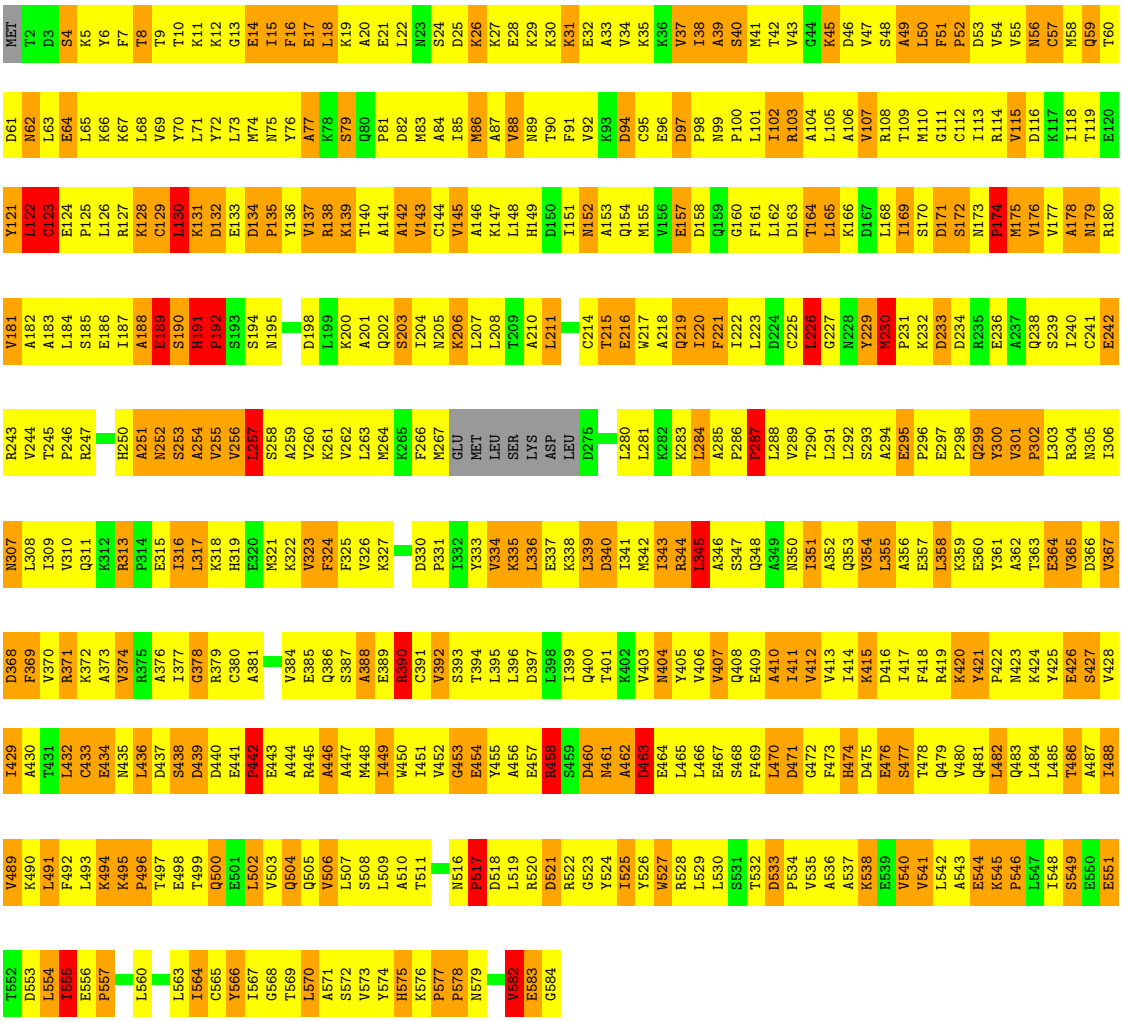
Chain D:





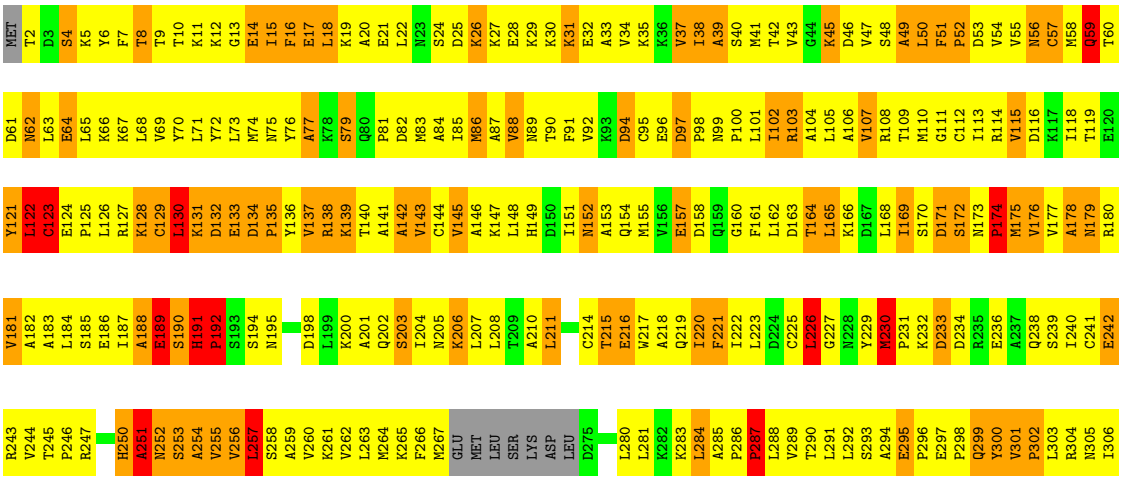
• Molecule 2: ADAPTER-RELATED PROTEIN COMPLEX 1 BETA 1 SUBUNIT

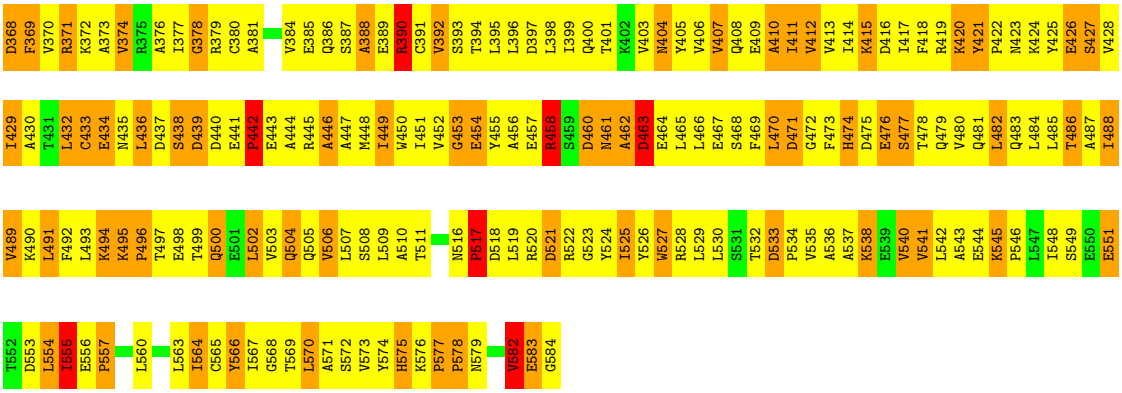
Chain F:



• Molecule 2: ADAPTER-RELATED PROTEIN COMPLEX 1 BETA 1 SUBUNIT

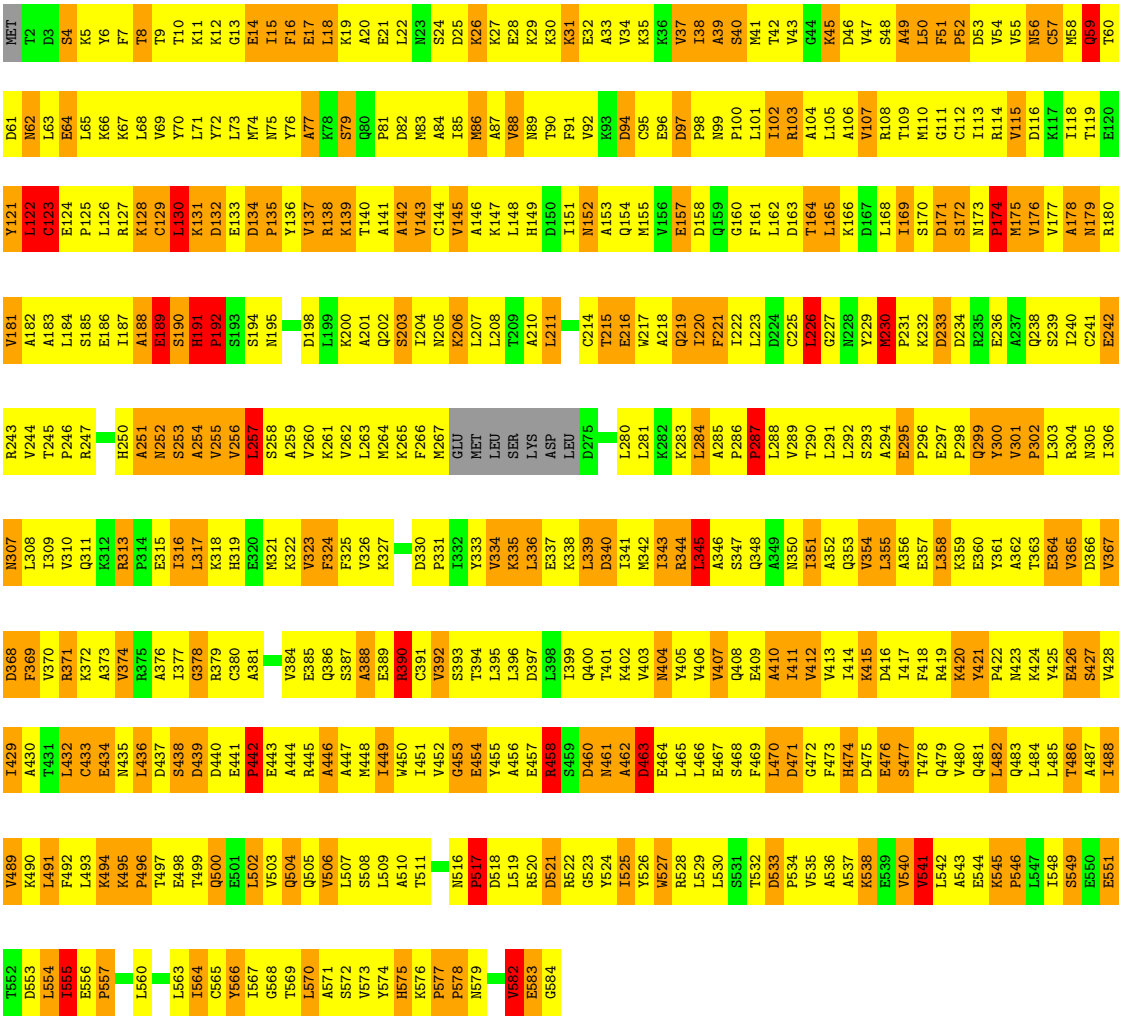
Chain H:





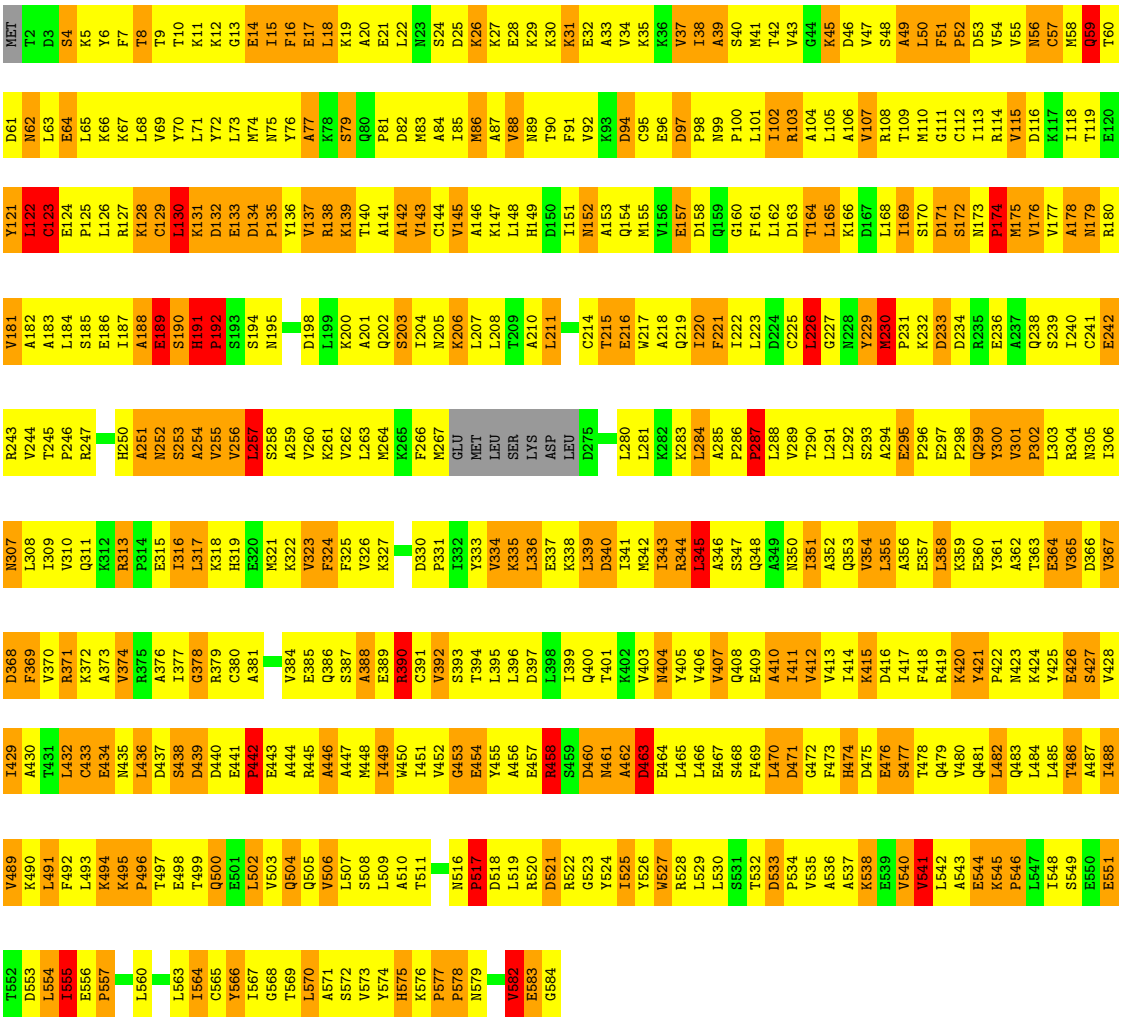
• Molecule 2: ADAPTER-RELATED PROTEIN COMPLEX 1 BETA 1 SUBUNIT

Chain J:



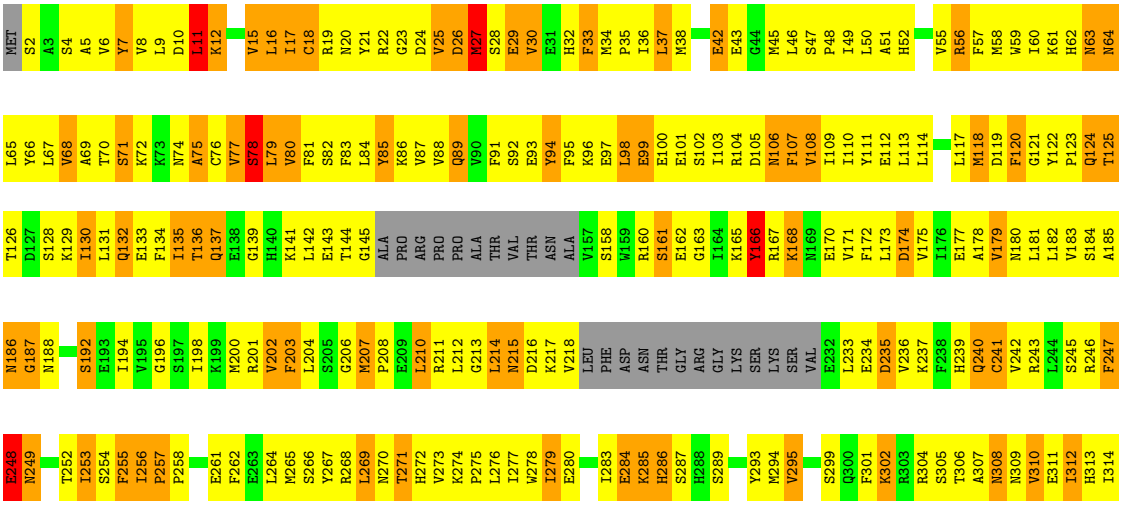
• Molecule 2: ADAPTER-RELATED PROTEIN COMPLEX 1 BETA 1 SUBUNIT

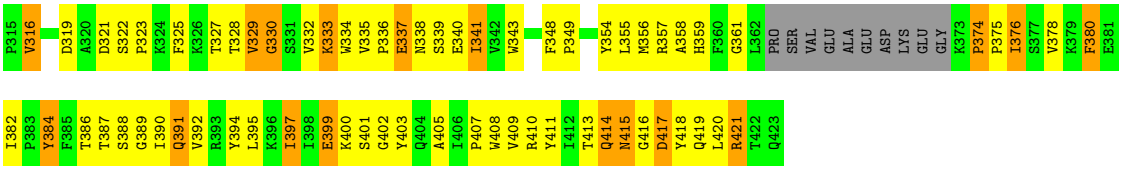
Chain L:

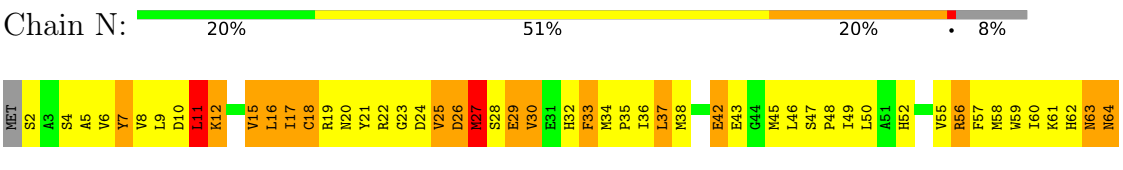


• Molecule 3: ADAPTOR-RELATED PROTEIN COMPLEX 1, MU 1 SUBUNIT

Chain M:

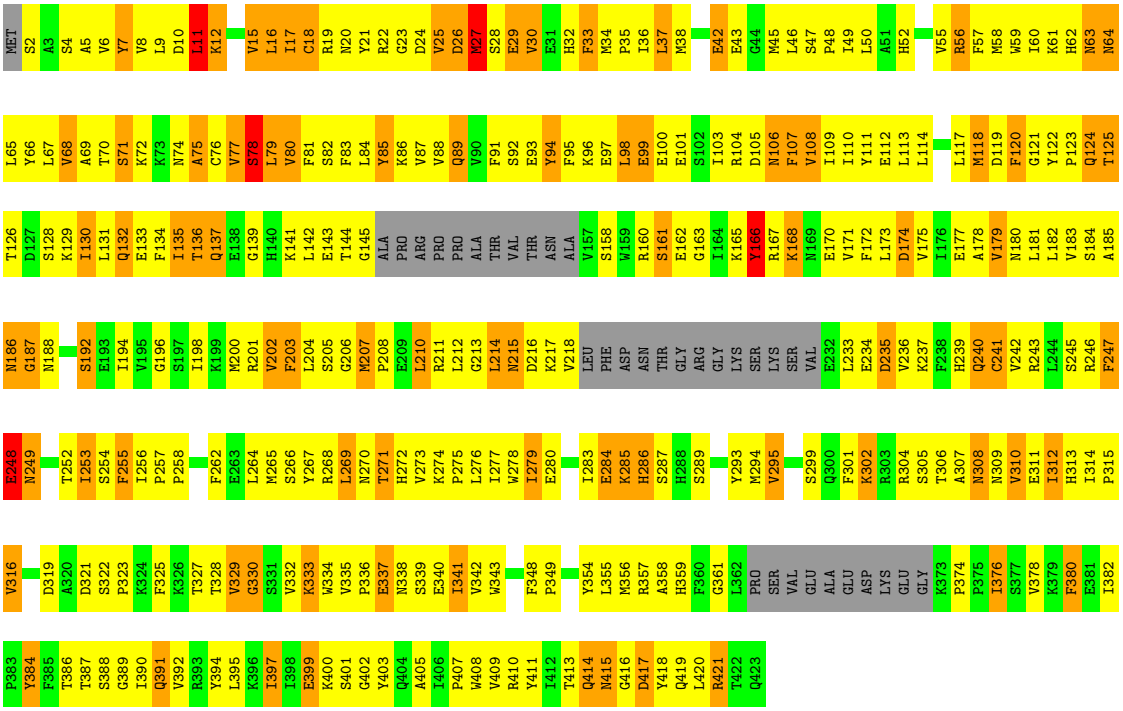


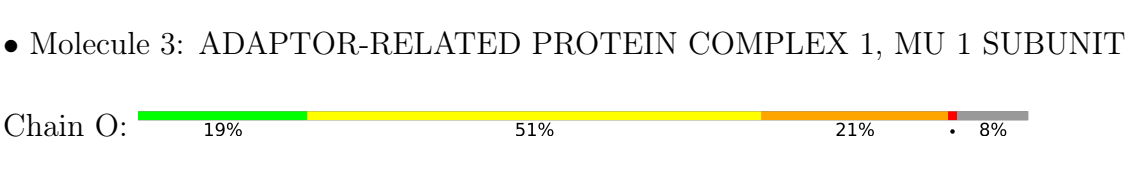




• Molecule 3: ADAPTOR-RELATED PROTEIN COMPLEX 1, MU 1 SUBUNIT

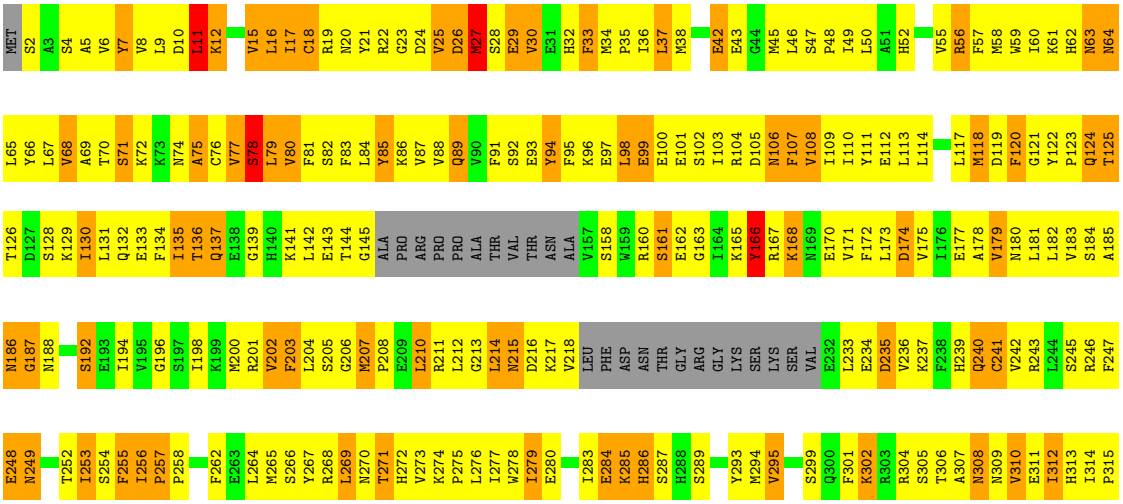
Chain N:

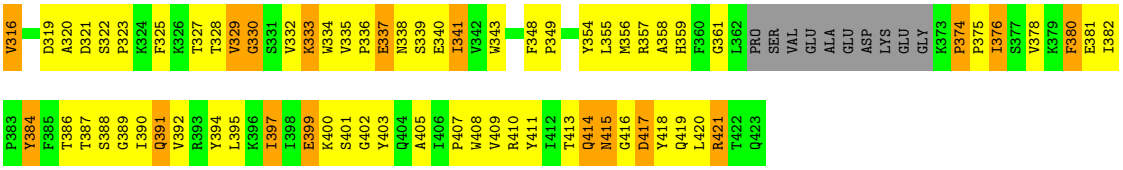




• Molecule 3: ADAPTOR-RELATED PROTEIN COMPLEX 1, MU 1 SUBUNIT

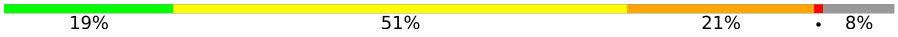
Chain O:

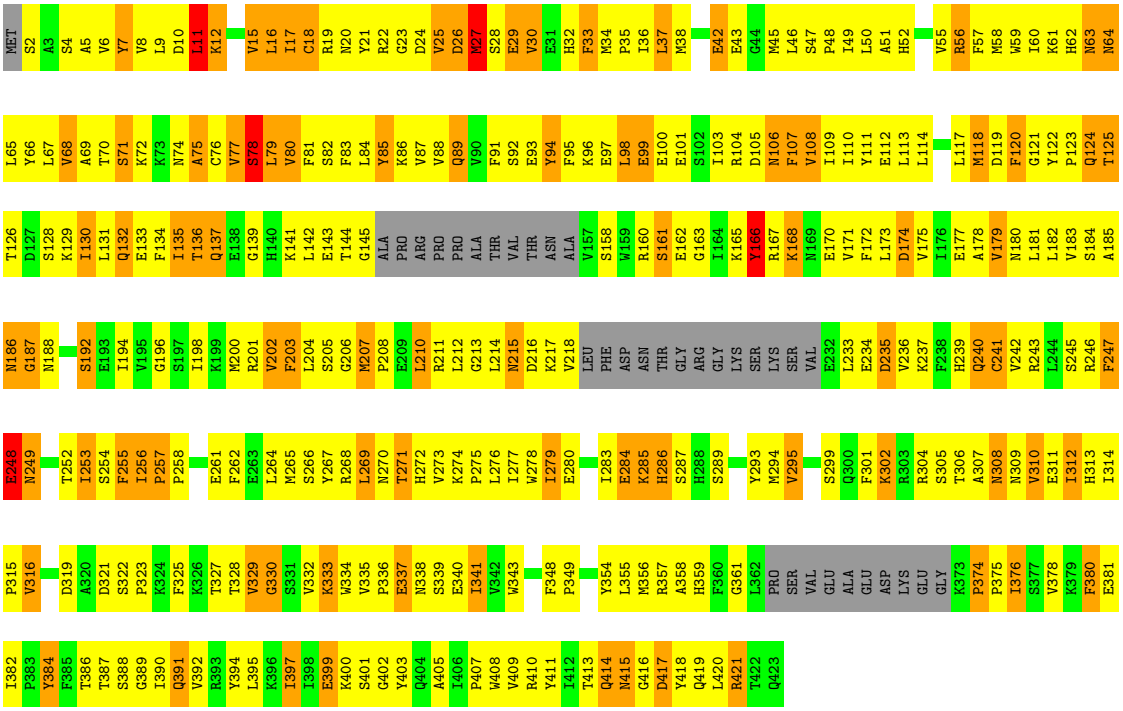


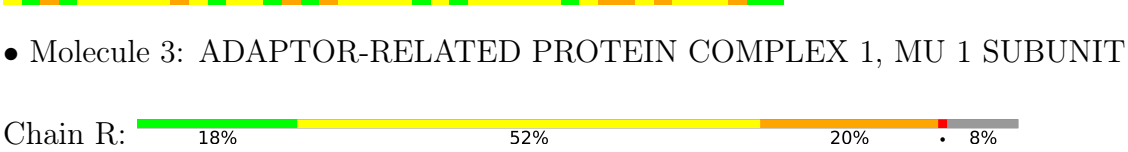


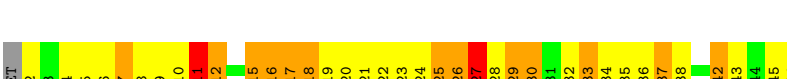
• Molecule 3: ADAPTOR-RELATED PROTEIN COMPLEX 1, MU 1 SUBUNIT

Chain P:



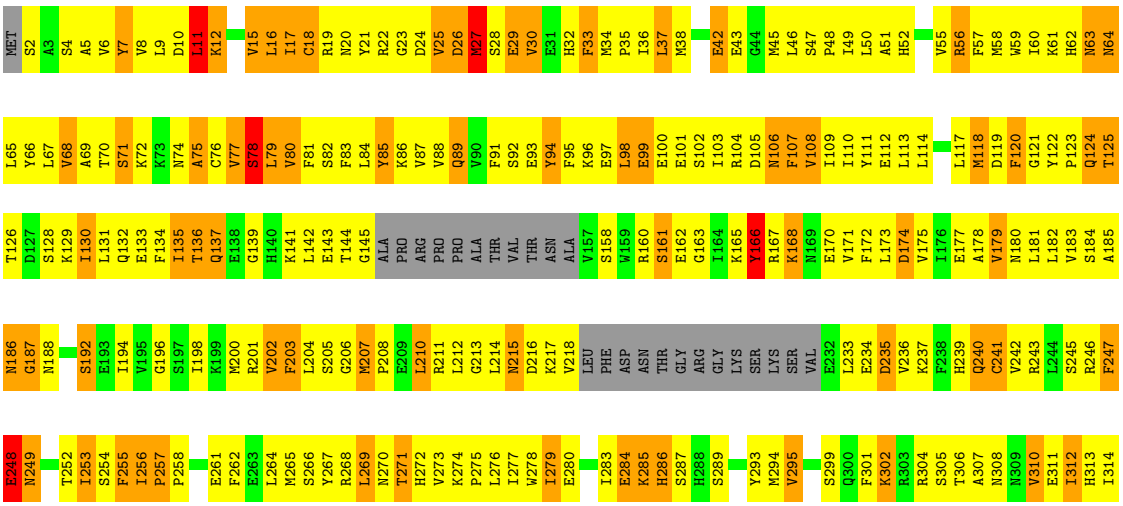


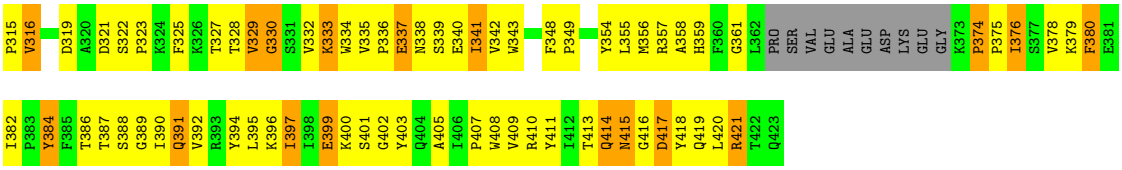




• Molecule 3: ADAPTOR-RELATED PROTEIN COMPLEX 1, MU 1 SUBUNIT

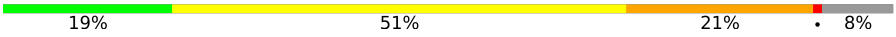
Chain R:

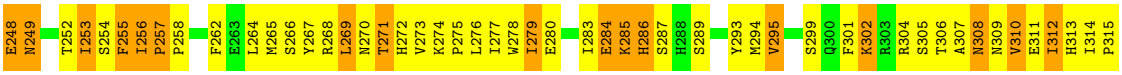


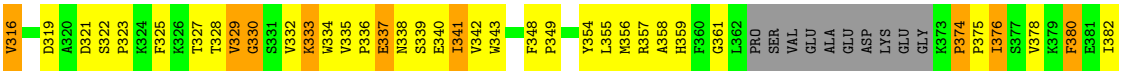


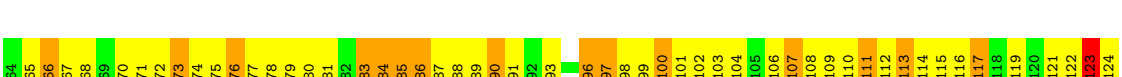
• Molecule 3: ADAPTOR-RELATED PROTEIN COMPLEX 1, MU 1 SUBUNIT

Chain V:







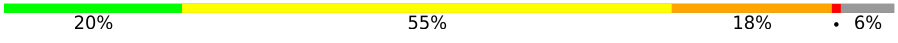


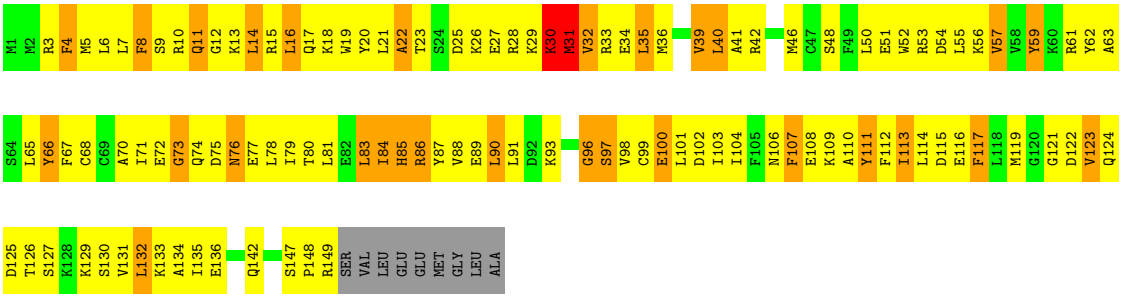
• Molecule 4: ADAPTER-RELATED PROTEIN COMPLEX 1 SIGMA 1A SUBUNIT

Chain Q:

• Molecule 4: ADAPTER-RELATED PROTEIN COMPLEX 1 SIGMA 1A SUBUNIT

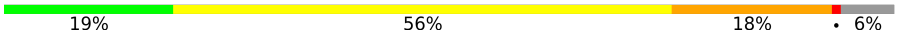
Chain S:

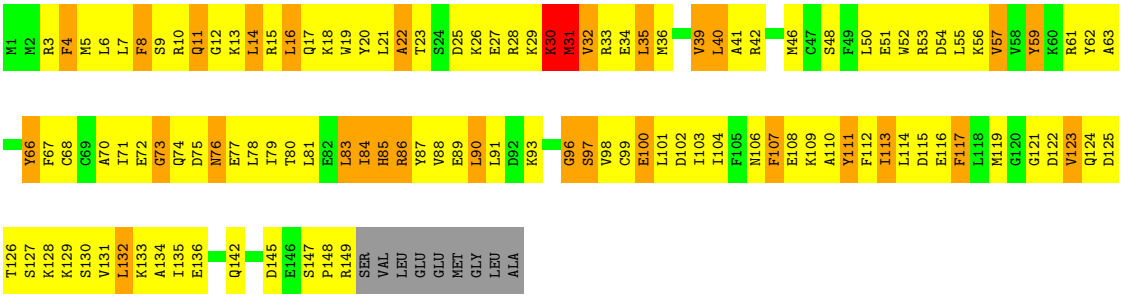




• Molecule 4: ADAPTER-RELATED PROTEIN COMPLEX 1 SIGMA 1A SUBUNIT

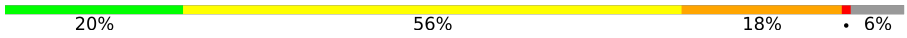
Chain T:

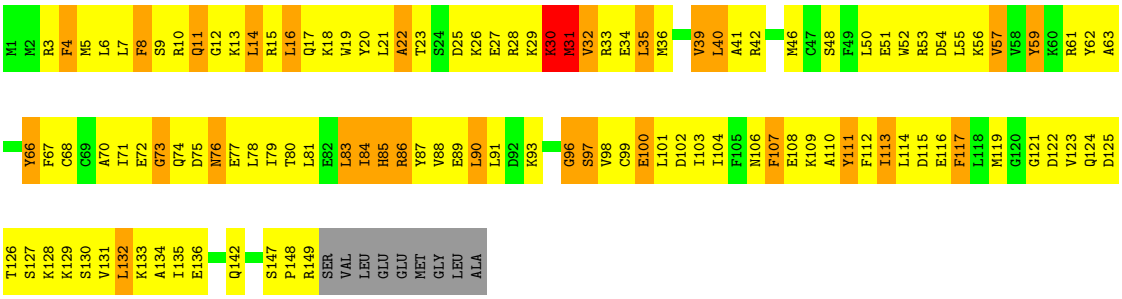




• Molecule 4: ADAPTER-RELATED PROTEIN COMPLEX 1 SIGMA 1A SUBUNIT

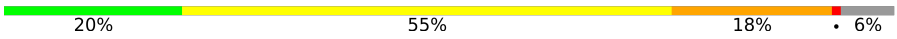
Chain U:

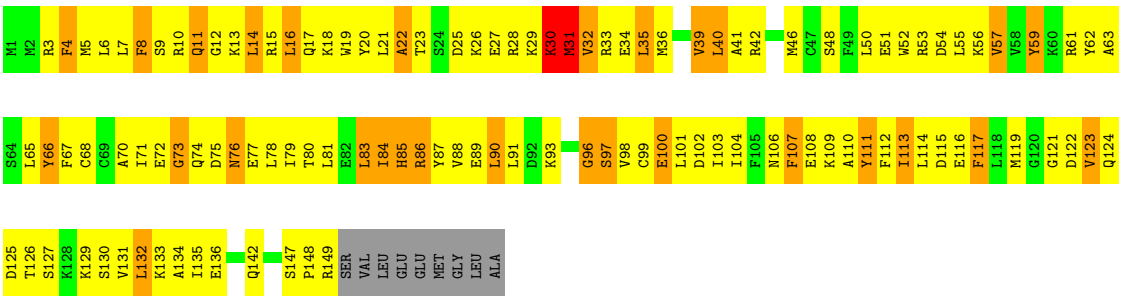




• Molecule 4: ADAPTER-RELATED PROTEIN COMPLEX 1 SIGMA 1A SUBUNIT

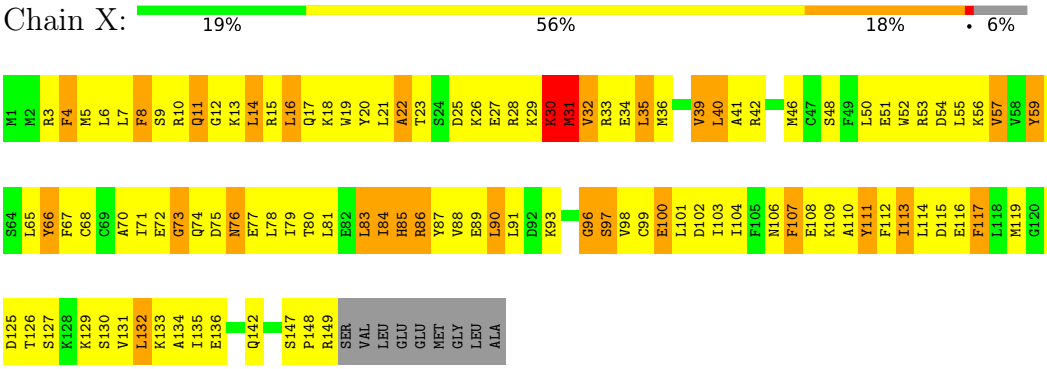
Chain W:





• Molecule 4: ADAPTER-RELATED PROTEIN COMPLEX 1 SIGMA 1A SUBUNIT

Chain X:


19%
56%
18%
6%
M1 M2 R3 F4 M5 L6 L7 F8 S9 R10 Q11 G12 K13 L14 R15 L16 Q17 K18 W19 Y20 L21 A22 T23 S24 D25 K26 E27 R28 K29 K30 M31 V32 R33 E34 L35 M36 V39 L40 A41 R42 M46 C47 S48 F49 L50 E51 W52 R53 D54 L55 K56 V57 V58 Y59 K60 R61 Y62 A63
S64 L65 Y66 F67 C68 C69 A70 I71 E72 G73 Q74 D75 N76 E77 L78 I79 T80 L81 E82 L83 I84 H85 R86 Y87 V88 E89 L90 L91 D92 K93 G96 S97 V98 C99 E100 L101 D102 I103 I104 F105 N106 F107 E108 K109 A110 Y111 F112 I113 L114 D115 E116 F117 L118 M119 G120 G121 D122 V123 Q124
D125 T126 S127 K128 K129 S130 V131 L132 K133 A134 I135 E136 Q142 S147 P148 R149 SER VAL LEU GLU GLU MET GLY LEU ALA

4 Data and refinement statistics (i)

Xtriage (Phenix) and EDS were not executed - this section is therefore incomplete.

Property	Value	Source
Space group	P 32 1 2	Depositor
Cell constants a, b, c, α, β, γ	178.14Å 178.14Å 1134.99Å 90.00° 90.00° 120.00°	Depositor
Resolution (Å)	40.00 – 4.00	Depositor
% Data completeness (in resolution range)	78.8 (40.00-4.00)	Depositor
R_{merge}	0.12	Depositor
R_{sym}	(Not available)	Depositor
Refinement program	CNS 1.1	Depositor
R, R_{free}	0.297 , 0.310	Depositor
Estimated twinning fraction	No twinning to report.	Xtriage
Total number of atoms	81744	wwPDB-VP
Average B, all atoms (Å^2)	89.0	wwPDB-VP

5 Model quality

5.1 Standard geometry

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#$\|Z\|$ >5	RMSZ	#$\|Z\|$ >5
1	A	0.77	5/4728 (0.1%)	1.13	46/6381 (0.7%)
1	C	0.77	5/4728 (0.1%)	1.13	46/6381 (0.7%)
1	E	0.77	5/4728 (0.1%)	1.13	46/6381 (0.7%)
1	G	0.77	6/4728 (0.1%)	1.13	47/6381 (0.7%)
1	I	0.77	6/4728 (0.1%)	1.13	46/6381 (0.7%)
1	K	0.77	5/4728 (0.1%)	1.13	46/6381 (0.7%)
2	B	0.80	1/4630 (0.0%)	1.28	69/6278 (1.1%)
2	D	0.80	1/4630 (0.0%)	1.28	65/6278 (1.0%)
2	F	0.80	1/4630 (0.0%)	1.28	67/6278 (1.1%)
2	H	0.80	1/4630 (0.0%)	1.28	67/6278 (1.1%)
2	J	0.80	1/4630 (0.0%)	1.28	67/6278 (1.1%)
2	L	0.80	1/4630 (0.0%)	1.28	67/6278 (1.1%)
3	M	0.89	2/3237 (0.1%)	1.36	44/4366 (1.0%)
3	N	0.89	2/3237 (0.1%)	1.36	43/4366 (1.0%)
3	O	0.89	2/3237 (0.1%)	1.36	44/4366 (1.0%)
3	P	0.90	2/3237 (0.1%)	1.36	44/4366 (1.0%)
3	R	0.89	2/3237 (0.1%)	1.36	44/4366 (1.0%)
3	V	0.90	2/3237 (0.1%)	1.36	43/4366 (1.0%)
4	Q	0.78	1/1259 (0.1%)	1.00	3/1686 (0.2%)
4	S	0.78	1/1259 (0.1%)	1.00	3/1686 (0.2%)
4	T	0.78	1/1259 (0.1%)	1.00	3/1686 (0.2%)
4	U	0.78	0/1259	0.99	3/1686 (0.2%)
4	W	0.78	1/1259 (0.1%)	1.00	3/1686 (0.2%)
4	X	0.78	0/1259	1.00	3/1686 (0.2%)
All	All	0.81	54/83124 (0.1%)	1.23	959/112266 (0.9%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
3	M	0	2

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Mol	Chain	#Chirality outliers	#Planarity outliers
3	N	0	2
3	O	0	2
3	P	0	2
3	R	0	2
3	V	0	2
All	All	0	12

All (54) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	K	232	SER	C-O	-6.32	1.17	1.24
1	E	232	SER	C-O	-6.31	1.17	1.24
1	G	232	SER	C-O	-6.30	1.17	1.24
1	C	232	SER	C-O	-6.29	1.17	1.24
1	A	232	SER	C-O	-6.29	1.17	1.24
1	I	232	SER	C-O	-6.27	1.17	1.24
2	H	583	GLU	C-N	-5.75	1.25	1.33
2	F	583	GLU	C-N	-5.75	1.25	1.33
2	L	583	GLU	C-N	-5.72	1.25	1.33
2	B	583	GLU	C-N	-5.72	1.25	1.33
2	D	583	GLU	C-N	-5.69	1.25	1.33
2	J	583	GLU	C-N	-5.67	1.25	1.33
1	E	1	MET	SD-CE	5.61	1.93	1.79
1	G	1	MET	SD-CE	5.61	1.93	1.79
1	A	1	MET	SD-CE	5.58	1.93	1.79
1	K	1	MET	SD-CE	5.58	1.93	1.79
1	C	1	MET	SD-CE	5.58	1.93	1.79
1	I	1	MET	SD-CE	5.56	1.93	1.79
1	E	3	ALA	CA-CB	5.39	1.61	1.53
1	A	3	ALA	CA-CB	5.36	1.61	1.53
1	C	3	ALA	CA-CB	5.36	1.61	1.53
1	G	496	GLU	C-O	-5.36	1.17	1.24
1	I	496	GLU	C-O	-5.36	1.17	1.24
1	E	496	GLU	C-O	-5.35	1.17	1.24
1	A	496	GLU	C-O	-5.35	1.17	1.24
1	K	3	ALA	CA-CB	5.34	1.61	1.53
1	C	496	GLU	C-O	-5.34	1.17	1.24
1	I	3	ALA	CA-CB	5.33	1.61	1.53
1	G	3	ALA	CA-CB	5.32	1.61	1.53
1	K	496	GLU	C-O	-5.31	1.17	1.24
3	V	392	VAL	CA-CB	-5.18	1.47	1.54
3	O	392	VAL	CA-CB	-5.15	1.47	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	M	392	VAL	CA-CB	-5.13	1.47	1.54
3	V	279	ILE	CA-CB	-5.13	1.51	1.55
3	N	392	VAL	CA-CB	-5.12	1.47	1.54
3	P	279	ILE	CA-CB	-5.11	1.51	1.55
3	R	392	VAL	CA-CB	-5.11	1.48	1.54
3	O	279	ILE	CA-CB	-5.08	1.51	1.55
3	N	279	ILE	CA-CB	-5.08	1.51	1.55
3	M	279	ILE	CA-CB	-5.08	1.51	1.55
3	P	392	VAL	CA-CB	-5.08	1.48	1.54
1	G	498	ILE	CA-CB	5.05	1.61	1.54
1	G	232	SER	N-CA	5.04	1.51	1.46
3	R	279	ILE	CA-CB	-5.03	1.52	1.55
1	I	498	ILE	CA-CB	5.02	1.61	1.54
4	W	123	VAL	CA-CB	-5.02	1.48	1.54
1	C	498	ILE	CA-CB	5.02	1.61	1.54
1	E	498	ILE	CA-CB	5.01	1.61	1.54
1	K	498	ILE	CA-CB	5.01	1.61	1.54
1	A	498	ILE	CA-CB	5.01	1.61	1.54
4	T	123	VAL	CA-CB	-5.01	1.48	1.54
4	Q	123	VAL	CA-CB	-5.01	1.48	1.54
4	S	123	VAL	CA-CB	-5.00	1.48	1.54
1	I	232	SER	N-CA	5.00	1.51	1.46

All (959) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	V	256	ILE	CA-C-N	16.72	131.70	119.66
3	V	256	ILE	C-N-CA	16.72	131.70	119.66
3	P	256	ILE	CA-C-N	16.71	131.69	119.66
3	P	256	ILE	C-N-CA	16.71	131.69	119.66
3	R	256	ILE	CA-C-N	16.70	131.68	119.66
3	R	256	ILE	C-N-CA	16.70	131.68	119.66
3	M	256	ILE	CA-C-N	16.69	131.68	119.66
3	M	256	ILE	C-N-CA	16.69	131.68	119.66
3	O	256	ILE	CA-C-N	16.65	131.65	119.66
3	O	256	ILE	C-N-CA	16.65	131.65	119.66
3	N	256	ILE	CA-C-N	16.59	131.60	119.66
3	N	256	ILE	C-N-CA	16.59	131.60	119.66
2	J	545	LYS	CA-C-N	13.36	136.53	119.84
2	J	545	LYS	C-N-CA	13.36	136.53	119.84
2	L	545	LYS	CA-C-N	13.34	136.51	119.84
2	L	545	LYS	C-N-CA	13.34	136.51	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	D	545	LYS	CA-C-N	13.33	136.50	119.84
2	D	545	LYS	C-N-CA	13.33	136.50	119.84
2	B	545	LYS	CA-C-N	13.32	136.49	119.84
2	B	545	LYS	C-N-CA	13.32	136.49	119.84
2	H	545	LYS	CA-C-N	13.31	136.47	119.84
2	H	545	LYS	C-N-CA	13.31	136.47	119.84
2	F	545	LYS	CA-C-N	13.30	136.47	119.84
2	F	545	LYS	C-N-CA	13.30	136.47	119.84
2	J	97	ASP	CA-C-N	12.50	132.87	119.87
2	J	97	ASP	C-N-CA	12.50	132.87	119.87
2	L	97	ASP	CA-C-N	12.49	132.86	119.87
2	L	97	ASP	C-N-CA	12.49	132.86	119.87
2	B	97	ASP	CA-C-N	12.47	132.84	119.87
2	B	97	ASP	C-N-CA	12.47	132.84	119.87
2	F	97	ASP	CA-C-N	12.47	132.84	119.87
2	F	97	ASP	C-N-CA	12.47	132.84	119.87
2	D	97	ASP	CA-C-N	12.46	132.82	119.87
2	D	97	ASP	C-N-CA	12.46	132.82	119.87
2	H	97	ASP	CA-C-N	12.43	132.79	119.87
2	H	97	ASP	C-N-CA	12.43	132.79	119.87
1	E	171	LEU	N-CA-C	12.19	128.28	113.16
1	K	171	LEU	N-CA-C	12.17	128.25	113.16
1	C	171	LEU	N-CA-C	12.16	128.24	113.16
1	I	171	LEU	N-CA-C	12.16	128.24	113.16
1	A	171	LEU	N-CA-C	12.15	128.22	113.16
1	G	171	LEU	N-CA-C	12.11	128.18	113.16
2	J	57	CYS	N-CA-C	-11.94	98.03	112.59
2	D	57	CYS	N-CA-C	-11.93	98.04	112.59
2	B	57	CYS	N-CA-C	-11.92	98.05	112.59
2	F	57	CYS	N-CA-C	-11.92	98.05	112.59
2	L	57	CYS	N-CA-C	-11.91	98.06	112.59
2	H	57	CYS	N-CA-C	-11.87	98.11	112.59
2	F	494	LYS	N-CA-C	-11.68	99.78	113.21
2	B	494	LYS	N-CA-C	-11.66	99.80	113.21
2	D	494	LYS	N-CA-C	-11.66	99.80	113.21
2	L	494	LYS	N-CA-C	-11.65	99.81	113.21
2	H	494	LYS	N-CA-C	-11.65	99.82	113.21
2	J	494	LYS	N-CA-C	-11.64	99.82	113.21
2	H	174	PRO	CA-N-CD	-11.62	95.73	112.00
2	B	174	PRO	CA-N-CD	-11.60	95.77	112.00
2	L	174	PRO	CA-N-CD	-11.59	95.78	112.00
2	F	174	PRO	CA-N-CD	-11.58	95.78	112.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	J	174	PRO	CA-N-CD	-11.58	95.79	112.00
2	D	174	PRO	CA-N-CD	-11.58	95.79	112.00
1	I	229	SER	N-CA-C	11.39	126.11	109.14
1	A	229	SER	N-CA-C	11.38	126.09	109.14
1	E	229	SER	N-CA-C	11.37	126.08	109.14
1	G	229	SER	N-CA-C	11.37	126.09	109.14
1	C	229	SER	N-CA-C	11.36	126.07	109.14
1	K	229	SER	N-CA-C	11.36	126.07	109.14
3	O	248	GLU	N-CA-C	11.24	128.19	110.32
3	N	248	GLU	N-CA-C	11.23	128.18	110.32
3	M	248	GLU	N-CA-C	11.21	128.15	110.32
3	P	248	GLU	N-CA-C	11.21	128.15	110.32
2	L	192	PRO	CA-N-CD	-11.21	96.31	112.00
3	V	248	GLU	N-CA-C	11.20	128.13	110.32
2	F	192	PRO	CA-N-CD	-11.20	96.32	112.00
2	D	192	PRO	CA-N-CD	-11.18	96.34	112.00
2	B	192	PRO	CA-N-CD	-11.18	96.35	112.00
3	R	248	GLU	N-CA-C	11.18	128.10	110.32
2	J	192	PRO	CA-N-CD	-11.18	96.36	112.00
2	H	192	PRO	CA-N-CD	-11.17	96.36	112.00
2	F	233	ASP	N-CA-C	10.58	127.73	109.96
2	L	233	ASP	N-CA-C	10.57	127.72	109.96
2	H	233	ASP	N-CA-C	10.57	127.71	109.96
2	B	233	ASP	N-CA-C	10.56	127.69	109.96
2	D	233	ASP	N-CA-C	10.55	127.68	109.96
2	J	233	ASP	N-CA-C	10.54	127.67	109.96
3	R	374	PRO	CA-C-N	10.11	130.17	119.76
3	R	374	PRO	C-N-CA	10.11	130.17	119.76
3	V	374	PRO	CA-C-N	10.10	130.16	119.76
3	V	374	PRO	C-N-CA	10.10	130.16	119.76
3	P	374	PRO	CA-C-N	10.09	130.15	119.76
3	P	374	PRO	C-N-CA	10.09	130.15	119.76
3	M	374	PRO	CA-C-N	10.08	130.14	119.76
3	M	374	PRO	C-N-CA	10.08	130.14	119.76
3	N	374	PRO	CA-C-N	10.07	130.13	119.76
3	N	374	PRO	C-N-CA	10.07	130.13	119.76
3	O	374	PRO	CA-C-N	10.07	130.13	119.76
3	O	374	PRO	C-N-CA	10.07	130.13	119.76
3	V	206	GLY	N-CA-C	9.89	120.77	111.67
3	M	206	GLY	N-CA-C	9.86	120.74	111.67
3	R	206	GLY	N-CA-C	9.85	120.73	111.67
3	P	206	GLY	N-CA-C	9.85	120.73	111.67

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	N	206	GLY	N-CA-C	9.83	120.71	111.67
3	O	206	GLY	N-CA-C	9.82	120.71	111.67
2	H	234	ASP	N-CA-C	9.77	123.32	111.40
2	J	234	ASP	N-CA-C	9.76	123.31	111.40
2	B	234	ASP	N-CA-C	9.75	123.30	111.40
2	F	234	ASP	N-CA-C	9.74	123.28	111.40
2	D	234	ASP	N-CA-C	9.74	123.28	111.40
2	L	234	ASP	N-CA-C	9.72	123.26	111.40
2	F	582	VAL	N-CA-C	9.06	128.19	109.34
2	H	582	VAL	N-CA-C	9.03	128.12	109.34
2	J	582	VAL	N-CA-C	9.03	128.12	109.34
2	D	582	VAL	N-CA-C	9.03	128.12	109.34
2	L	582	VAL	N-CA-C	9.01	128.08	109.34
3	P	319	ASP	N-CA-C	8.99	121.21	108.54
3	O	319	ASP	N-CA-C	8.97	121.19	108.54
3	N	319	ASP	N-CA-C	8.97	121.19	108.54
3	M	319	ASP	N-CA-C	8.95	121.16	108.54
3	V	319	ASP	N-CA-C	8.94	121.15	108.54
3	R	319	ASP	N-CA-C	8.94	121.14	108.54
1	K	3	ALA	CA-C-N	8.66	130.67	119.84
1	K	3	ALA	C-N-CA	8.66	130.67	119.84
1	G	3	ALA	CA-C-N	8.66	130.66	119.84
1	G	3	ALA	C-N-CA	8.66	130.66	119.84
1	C	3	ALA	CA-C-N	8.66	130.66	119.84
1	C	3	ALA	C-N-CA	8.66	130.66	119.84
1	E	3	ALA	CA-C-N	8.65	130.66	119.84
1	E	3	ALA	C-N-CA	8.65	130.66	119.84
1	A	3	ALA	CA-C-N	8.65	130.66	119.84
1	A	3	ALA	C-N-CA	8.65	130.66	119.84
1	I	3	ALA	CA-C-N	8.62	130.62	119.84
1	I	3	ALA	C-N-CA	8.62	130.62	119.84
1	C	321	ASP	N-CA-C	8.51	123.59	109.46
1	I	321	ASP	N-CA-C	8.51	123.58	109.46
1	K	321	ASP	N-CA-C	8.50	123.57	109.46
1	A	321	ASP	N-CA-C	8.50	123.57	109.46
1	E	321	ASP	N-CA-C	8.49	123.56	109.46
1	G	321	ASP	N-CA-C	8.49	123.56	109.46
2	L	551	GLU	N-CA-C	-8.45	102.97	113.28
2	B	551	GLU	N-CA-C	-8.42	102.99	113.18
2	D	551	GLU	N-CA-C	-8.41	103.00	113.18
2	J	551	GLU	N-CA-C	-8.41	103.00	113.18
2	H	551	GLU	N-CA-C	-8.41	103.01	113.18

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	F	232	LYS	N-CA-C	8.40	128.70	110.80
2	J	232	LYS	N-CA-C	8.40	128.69	110.80
2	D	232	LYS	N-CA-C	8.40	128.68	110.80
2	B	232	LYS	N-CA-C	8.39	128.68	110.80
2	L	232	LYS	N-CA-C	8.39	128.68	110.80
2	F	551	GLU	N-CA-C	-8.38	103.04	113.18
2	H	232	LYS	N-CA-C	8.38	128.65	110.80
2	D	122	LEU	N-CA-C	8.34	123.55	113.12
2	L	122	LEU	N-CA-C	8.33	123.54	113.12
2	B	122	LEU	N-CA-C	8.33	123.53	113.12
2	F	122	LEU	N-CA-C	8.32	123.52	113.12
2	H	122	LEU	N-CA-C	8.31	123.51	113.12
2	J	122	LEU	N-CA-C	8.29	123.48	113.12
2	H	121	TYR	N-CA-C	8.25	121.19	111.71
2	F	121	TYR	N-CA-C	8.24	121.18	111.71
2	J	121	TYR	N-CA-C	8.22	121.17	111.71
2	B	121	TYR	N-CA-C	8.22	121.16	111.71
2	L	121	TYR	N-CA-C	8.22	121.16	111.71
2	D	121	TYR	N-CA-C	8.21	121.15	111.71
3	N	179	VAL	N-CA-C	8.14	118.01	106.53
3	R	179	VAL	N-CA-C	8.13	118.00	106.53
1	K	539	CYS	N-CA-C	8.12	123.98	113.18
1	C	539	CYS	N-CA-C	8.12	123.98	113.18
3	O	179	VAL	N-CA-C	8.12	117.98	106.53
3	M	179	VAL	N-CA-C	8.12	117.97	106.53
3	P	179	VAL	N-CA-C	8.11	117.97	106.53
1	A	539	CYS	N-CA-C	8.11	123.97	113.18
3	V	179	VAL	N-CA-C	8.11	117.96	106.53
1	I	539	CYS	N-CA-C	8.11	123.96	113.18
1	E	539	CYS	N-CA-C	8.10	123.95	113.18
1	G	539	CYS	N-CA-C	8.09	123.94	113.18
2	H	134	ASP	N-CA-C	7.99	122.61	109.58
2	L	134	ASP	N-CA-C	7.97	122.58	109.58
2	B	134	ASP	N-CA-C	7.97	122.57	109.58
2	J	134	ASP	N-CA-C	7.96	122.56	109.58
2	D	134	ASP	N-CA-C	7.96	122.55	109.58
2	F	134	ASP	N-CA-C	7.95	122.54	109.58
2	D	191	HIS	N-CA-C	7.93	127.34	109.81
2	B	191	HIS	N-CA-C	7.93	127.33	109.81
2	H	191	HIS	N-CA-C	7.92	127.32	109.81
2	L	191	HIS	N-CA-C	7.92	127.32	109.81
2	F	191	HIS	N-CA-C	7.92	127.32	109.81

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	J	191	HIS	N-CA-C	7.91	127.29	109.81
2	J	230	MET	N-CA-C	7.89	127.24	109.81
2	L	230	MET	N-CA-C	7.89	127.24	109.81
3	R	285	LYS	N-CA-C	7.89	122.31	109.85
3	O	285	LYS	N-CA-C	7.88	122.31	109.85
3	V	285	LYS	N-CA-C	7.88	122.31	109.85
3	M	285	LYS	N-CA-C	7.87	122.29	109.85
2	B	230	MET	N-CA-C	7.87	127.20	109.81
3	P	285	LYS	N-CA-C	7.87	122.28	109.85
2	H	230	MET	N-CA-C	7.86	127.18	109.81
3	N	285	LYS	N-CA-C	7.86	122.26	109.85
2	D	230	MET	N-CA-C	7.85	127.17	109.81
2	F	230	MET	N-CA-C	7.85	127.16	109.81
1	E	176	LEU	N-CA-C	-7.82	103.44	113.77
1	C	176	LEU	N-CA-C	-7.82	103.44	113.77
1	G	176	LEU	N-CA-C	-7.81	103.46	113.77
1	A	176	LEU	N-CA-C	-7.81	103.46	113.77
1	K	176	LEU	N-CA-C	-7.81	103.46	113.77
1	I	176	LEU	N-CA-C	-7.79	103.49	113.77
3	P	215	ASN	N-CA-C	-7.73	100.90	110.41
3	O	215	ASN	N-CA-C	-7.72	100.92	110.41
3	M	215	ASN	N-CA-C	-7.71	100.92	110.41
3	R	215	ASN	N-CA-C	-7.71	100.93	110.41
3	V	215	ASN	N-CA-C	-7.71	100.93	110.41
2	L	214	CYS	N-CA-C	7.68	127.17	110.80
3	N	215	ASN	N-CA-C	-7.67	100.97	110.41
2	D	214	CYS	N-CA-C	7.67	127.14	110.80
2	F	214	CYS	N-CA-C	7.67	127.14	110.80
2	B	214	CYS	N-CA-C	7.67	127.14	110.80
2	J	214	CYS	N-CA-C	7.66	127.12	110.80
2	H	214	CYS	N-CA-C	7.66	127.12	110.80
2	J	201	ALA	N-CA-C	-7.50	105.02	112.97
2	F	201	ALA	N-CA-C	-7.47	105.05	112.97
1	E	1	MET	CA-C-N	7.47	129.18	119.84
1	E	1	MET	C-N-CA	7.47	129.18	119.84
2	D	577	PRO	N-CA-C	7.47	119.81	110.70
2	B	201	ALA	N-CA-C	-7.47	105.06	112.97
2	H	201	ALA	N-CA-C	-7.46	105.06	112.97
1	I	1	MET	CA-C-N	7.46	129.17	119.84
1	I	1	MET	C-N-CA	7.46	129.17	119.84
1	C	1	MET	CA-C-N	7.46	129.16	119.84
1	C	1	MET	C-N-CA	7.46	129.16	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	G	1	MET	CA-C-N	7.46	129.16	119.84
1	G	1	MET	C-N-CA	7.46	129.16	119.84
2	L	201	ALA	N-CA-C	-7.45	105.07	112.97
2	J	577	PRO	N-CA-C	7.45	119.79	110.70
2	F	577	PRO	N-CA-C	7.45	119.78	110.70
2	H	577	PRO	N-CA-C	7.44	119.78	110.70
2	B	577	PRO	N-CA-C	7.44	119.77	110.70
2	D	201	ALA	N-CA-C	-7.44	105.09	112.97
1	K	1	MET	CA-C-N	7.44	129.13	119.84
1	K	1	MET	C-N-CA	7.44	129.13	119.84
1	A	1	MET	CA-C-N	7.43	129.13	119.84
1	A	1	MET	C-N-CA	7.43	129.13	119.84
2	L	577	PRO	N-CA-C	7.43	119.77	110.70
3	R	271	THR	N-CA-C	7.33	121.67	108.48
3	N	271	THR	N-CA-C	7.32	121.65	108.48
3	O	271	THR	N-CA-C	7.31	121.64	108.48
3	M	271	THR	N-CA-C	7.31	121.64	108.48
3	P	271	THR	N-CA-C	7.31	121.63	108.48
3	V	271	THR	N-CA-C	7.31	121.63	108.48
1	G	99	VAL	N-CA-C	-7.23	103.25	110.62
2	D	316	ILE	N-CA-C	7.21	117.98	110.62
2	H	316	ILE	N-CA-C	7.21	117.97	110.62
1	I	99	VAL	N-CA-C	-7.20	103.28	110.62
1	I	277	ASN	N-CA-C	7.19	121.70	113.15
1	A	99	VAL	N-CA-C	-7.18	103.29	110.62
2	B	316	ILE	N-CA-C	7.18	117.95	110.62
2	L	316	ILE	N-CA-C	7.18	117.95	110.62
1	C	99	VAL	N-CA-C	-7.17	103.31	110.62
1	E	277	ASN	N-CA-C	7.16	121.67	113.15
2	J	316	ILE	N-CA-C	7.16	117.92	110.62
1	K	99	VAL	N-CA-C	-7.16	103.32	110.62
1	E	99	VAL	N-CA-C	-7.15	103.33	110.62
2	F	316	ILE	N-CA-C	7.15	117.92	110.62
1	K	277	ASN	N-CA-C	7.15	121.66	113.15
1	C	277	ASN	N-CA-C	7.14	121.65	113.15
1	A	277	ASN	N-CA-C	7.14	121.65	113.15
3	N	68	VAL	N-CA-C	7.14	120.38	108.81
3	M	68	VAL	N-CA-C	7.13	120.36	108.81
3	O	68	VAL	N-CA-C	7.12	120.34	108.81
3	P	68	VAL	N-CA-C	7.11	120.33	108.81
3	R	68	VAL	N-CA-C	7.11	120.32	108.81
3	V	68	VAL	N-CA-C	7.11	120.32	108.81

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	G	277	ASN	N-CA-C	7.10	121.60	113.15
2	B	206	LYS	N-CA-C	-7.01	103.57	111.07
2	J	206	LYS	N-CA-C	-7.00	103.58	111.07
2	F	206	LYS	N-CA-C	-7.00	103.58	111.07
2	H	206	LYS	N-CA-C	-7.00	103.59	111.07
2	D	206	LYS	N-CA-C	-6.99	103.59	111.07
2	L	206	LYS	N-CA-C	-6.98	103.60	111.07
1	I	70	CYS	N-CA-C	-6.92	102.81	111.11
1	C	70	CYS	N-CA-C	-6.90	102.83	111.11
1	A	70	CYS	N-CA-C	-6.89	102.84	111.11
1	K	70	CYS	N-CA-C	-6.89	102.84	111.11
1	G	70	CYS	N-CA-C	-6.89	102.85	111.11
1	E	70	CYS	N-CA-C	-6.87	102.87	111.11
1	I	299	ILE	N-CA-C	6.86	118.47	108.53
2	F	295	GLU	N-CA-C	6.85	120.75	109.58
1	K	299	ILE	N-CA-C	6.85	118.46	108.53
1	A	299	ILE	N-CA-C	6.84	118.46	108.53
2	D	295	GLU	N-CA-C	6.84	120.73	109.58
1	C	299	ILE	N-CA-C	6.84	118.45	108.53
1	E	299	ILE	N-CA-C	6.84	118.44	108.53
1	G	299	ILE	N-CA-C	6.83	118.44	108.53
2	L	295	GLU	N-CA-C	6.83	120.72	109.58
2	B	295	GLU	N-CA-C	6.83	120.71	109.58
2	J	295	GLU	N-CA-C	6.82	120.70	109.58
1	E	94	ASP	N-CA-C	-6.82	99.19	110.17
2	H	295	GLU	N-CA-C	6.81	120.69	109.58
1	A	94	ASP	N-CA-C	-6.81	99.21	110.17
1	I	94	ASP	N-CA-C	-6.79	99.23	110.17
3	O	257	PRO	N-CA-C	6.79	117.85	110.58
1	C	94	ASP	N-CA-C	-6.79	99.24	110.17
3	N	257	PRO	N-CA-C	6.79	117.84	110.58
1	I	4	PRO	CA-N-CD	-6.79	102.50	112.00
3	M	257	PRO	N-CA-C	6.79	117.84	110.58
1	K	94	ASP	N-CA-C	-6.78	99.25	110.17
1	G	94	ASP	N-CA-C	-6.78	99.25	110.17
3	P	257	PRO	N-CA-C	6.78	117.83	110.58
1	K	4	PRO	CA-N-CD	-6.78	102.51	112.00
3	V	257	PRO	N-CA-C	6.78	117.83	110.58
1	G	4	PRO	CA-N-CD	-6.77	102.52	112.00
1	C	4	PRO	CA-N-CD	-6.77	102.52	112.00
3	R	257	PRO	N-CA-C	6.77	117.82	110.58
1	A	4	PRO	CA-N-CD	-6.76	102.54	112.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	P	308	ASN	N-CA-C	6.75	120.52	109.85
3	M	308	ASN	N-CA-C	6.75	120.51	109.85
3	O	308	ASN	N-CA-C	6.75	120.51	109.85
1	E	4	PRO	CA-N-CD	-6.74	102.56	112.00
3	R	308	ASN	N-CA-C	6.74	120.50	109.85
3	V	308	ASN	N-CA-C	6.74	120.50	109.85
3	N	308	ASN	N-CA-C	6.73	120.49	109.85
3	V	391	GLN	N-CA-C	-6.71	97.28	108.75
3	N	391	GLN	N-CA-C	-6.70	97.30	108.75
3	P	391	GLN	N-CA-C	-6.69	97.31	108.75
2	H	533	ASP	N-CA-C	6.69	122.22	108.71
1	C	492	CYS	N-CA-C	6.69	119.59	108.96
2	B	582	VAL	N-CA-C	6.68	123.24	109.34
3	M	391	GLN	N-CA-C	-6.68	97.32	108.75
2	F	533	ASP	N-CA-C	6.68	122.20	108.71
1	E	492	CYS	N-CA-C	6.68	119.58	108.96
1	G	492	CYS	N-CA-C	6.68	119.58	108.96
1	I	492	CYS	N-CA-C	6.68	119.58	108.96
2	L	533	ASP	N-CA-C	6.68	122.20	108.71
3	O	391	GLN	N-CA-C	-6.68	97.33	108.75
1	A	492	CYS	N-CA-C	6.67	119.57	108.96
3	R	391	GLN	N-CA-C	-6.67	97.34	108.75
1	G	232	SER	CA-C-N	6.67	128.18	119.84
1	G	232	SER	C-N-CA	6.67	128.18	119.84
1	K	492	CYS	N-CA-C	6.67	119.57	108.96
2	B	533	ASP	N-CA-C	6.67	122.18	108.71
2	J	533	ASP	N-CA-C	6.67	122.18	108.71
2	D	533	ASP	N-CA-C	6.66	122.16	108.71
1	I	92	LEU	N-CA-C	6.65	121.41	113.16
1	E	92	LEU	N-CA-C	6.65	121.40	113.16
1	A	232	SER	CA-C-N	6.64	128.14	119.84
1	A	232	SER	C-N-CA	6.64	128.14	119.84
2	L	251	ALA	N-CA-C	6.64	124.94	110.80
1	E	232	SER	CA-C-N	6.63	128.13	119.84
1	E	232	SER	C-N-CA	6.63	128.13	119.84
1	G	92	LEU	N-CA-C	6.63	121.38	113.16
1	I	232	SER	CA-C-N	6.63	128.13	119.84
1	I	232	SER	C-N-CA	6.63	128.13	119.84
1	A	92	LEU	N-CA-C	6.62	121.37	113.16
1	C	92	LEU	N-CA-C	6.62	121.37	113.16
1	K	232	SER	CA-C-N	6.62	128.12	119.84
1	K	232	SER	C-N-CA	6.62	128.12	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	L	365	VAL	CB-CA-C	-6.62	105.23	111.06
1	C	232	SER	CA-C-N	6.62	128.11	119.84
1	C	232	SER	C-N-CA	6.62	128.11	119.84
2	F	365	VAL	CB-CA-C	-6.62	105.23	111.06
2	B	251	ALA	N-CA-C	6.62	124.89	110.80
2	D	251	ALA	N-CA-C	6.62	124.89	110.80
2	F	345	LEU	N-CA-C	6.61	121.01	112.41
2	L	345	LEU	N-CA-C	6.61	121.00	112.41
2	F	251	ALA	N-CA-C	6.61	124.87	110.80
2	J	251	ALA	N-CA-C	6.60	124.86	110.80
1	K	92	LEU	N-CA-C	6.60	121.35	113.16
2	H	365	VAL	CB-CA-C	-6.60	105.25	111.06
2	H	251	ALA	N-CA-C	6.59	124.84	110.80
2	H	345	LEU	N-CA-C	6.59	120.98	112.41
2	B	345	LEU	N-CA-C	6.59	120.98	112.41
2	B	365	VAL	CB-CA-C	-6.59	105.26	111.06
2	D	365	VAL	CB-CA-C	-6.58	105.27	111.06
2	J	345	LEU	N-CA-C	6.58	120.97	112.41
2	D	345	LEU	N-CA-C	6.58	120.96	112.41
2	J	365	VAL	CB-CA-C	-6.56	105.29	111.06
2	H	133	GLU	N-CA-C	6.55	122.18	112.94
2	D	133	GLU	N-CA-C	6.55	122.17	112.94
2	J	133	GLU	N-CA-C	6.54	122.17	112.94
2	L	133	GLU	N-CA-C	6.54	122.16	112.94
1	G	93	LEU	N-CA-C	6.54	120.95	109.96
2	B	133	GLU	N-CA-C	6.54	122.15	112.94
1	K	93	LEU	N-CA-C	6.53	120.94	109.96
1	A	93	LEU	N-CA-C	6.53	120.93	109.96
1	C	93	LEU	N-CA-C	6.53	120.93	109.96
1	E	93	LEU	N-CA-C	6.52	120.91	109.96
2	F	133	GLU	N-CA-C	6.52	122.13	112.94
1	I	93	LEU	N-CA-C	6.51	120.90	109.96
1	C	235	HIS	N-CA-C	6.48	121.59	113.43
1	G	235	HIS	N-CA-C	6.46	121.58	113.43
1	A	235	HIS	N-CA-C	6.46	121.57	113.43
2	H	374	VAL	N-CA-C	-6.46	104.22	110.42
1	I	235	HIS	N-CA-C	6.45	121.56	113.43
2	L	374	VAL	N-CA-C	-6.45	104.23	110.42
1	E	235	HIS	N-CA-C	6.45	121.55	113.43
1	K	235	HIS	N-CA-C	6.45	121.55	113.43
2	D	374	VAL	N-CA-C	-6.44	104.23	110.42
2	B	374	VAL	N-CA-C	-6.44	104.24	110.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	J	374	VAL	N-CA-C	-6.44	104.24	110.42
3	V	392	VAL	N-CA-C	-6.43	100.46	109.21
3	M	392	VAL	N-CA-C	-6.41	100.49	109.21
3	R	392	VAL	N-CA-C	-6.40	100.50	109.21
2	L	231	PRO	CA-C-N	6.40	133.77	121.54
2	L	231	PRO	C-N-CA	6.40	133.77	121.54
3	O	392	VAL	N-CA-C	-6.40	100.50	109.21
3	P	392	VAL	N-CA-C	-6.40	100.50	109.21
2	F	374	VAL	N-CA-C	-6.40	104.28	110.42
3	N	392	VAL	N-CA-C	-6.39	100.52	109.21
2	J	231	PRO	CA-C-N	6.39	133.75	121.54
2	J	231	PRO	C-N-CA	6.39	133.75	121.54
2	B	231	PRO	CA-C-N	6.39	133.74	121.54
2	B	231	PRO	C-N-CA	6.39	133.74	121.54
2	H	231	PRO	CA-C-N	6.38	133.72	121.54
2	H	231	PRO	C-N-CA	6.38	133.72	121.54
2	F	231	PRO	CA-C-N	6.37	133.71	121.54
2	F	231	PRO	C-N-CA	6.37	133.71	121.54
2	D	231	PRO	CA-C-N	6.37	133.70	121.54
2	D	231	PRO	C-N-CA	6.37	133.70	121.54
1	C	73	LEU	N-CA-C	-6.37	103.03	111.24
1	G	73	LEU	N-CA-C	-6.34	103.06	111.24
1	I	73	LEU	N-CA-C	-6.34	103.07	111.24
3	N	165	LYS	CA-C-N	6.34	133.64	121.54
3	N	165	LYS	C-N-CA	6.34	133.64	121.54
1	A	73	LEU	N-CA-C	-6.33	103.07	111.24
1	C	428	THR	N-CA-C	6.33	121.13	113.41
1	I	428	THR	N-CA-C	6.33	121.13	113.41
1	E	73	LEU	N-CA-C	-6.33	103.08	111.24
1	K	73	LEU	N-CA-C	-6.33	103.08	111.24
3	O	165	LYS	CA-C-N	6.33	133.62	121.54
3	O	165	LYS	C-N-CA	6.33	133.62	121.54
1	A	428	THR	N-CA-C	6.32	121.12	113.41
1	G	428	THR	N-CA-C	6.31	121.11	113.41
3	M	165	LYS	CA-C-N	6.31	133.59	121.54
3	M	165	LYS	C-N-CA	6.31	133.59	121.54
3	R	165	LYS	CA-C-N	6.31	133.59	121.54
3	R	165	LYS	C-N-CA	6.31	133.59	121.54
3	V	165	LYS	CA-C-N	6.31	133.59	121.54
3	V	165	LYS	C-N-CA	6.31	133.59	121.54
1	K	428	THR	N-CA-C	6.30	121.09	113.41
3	O	302	LYS	N-CA-C	-6.30	99.75	109.76

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	Q	122	ASP	N-CA-C	6.30	116.39	108.45
4	U	122	ASP	N-CA-C	6.29	116.38	108.45
3	P	302	LYS	N-CA-C	-6.29	99.75	109.76
3	R	302	LYS	N-CA-C	-6.29	99.75	109.76
3	M	302	LYS	N-CA-C	-6.29	99.76	109.76
4	T	122	ASP	N-CA-C	6.29	116.38	108.45
3	V	302	LYS	N-CA-C	-6.29	99.76	109.76
1	G	63	ALA	N-CA-C	6.29	121.09	112.04
1	E	428	THR	N-CA-C	6.29	121.08	113.41
3	N	302	LYS	N-CA-C	-6.29	99.77	109.76
1	C	63	ALA	N-CA-C	6.28	121.09	112.04
4	S	122	ASP	N-CA-C	6.28	116.37	108.45
1	K	63	ALA	N-CA-C	6.28	121.08	112.04
1	A	63	ALA	N-CA-C	6.28	121.08	112.04
3	P	165	LYS	CA-C-N	6.28	133.53	121.54
3	P	165	LYS	C-N-CA	6.28	133.53	121.54
4	X	122	ASP	N-CA-C	6.27	116.35	108.45
1	E	63	ALA	N-CA-C	6.27	121.07	112.04
1	I	63	ALA	N-CA-C	6.27	121.07	112.04
2	D	555	ILE	N-CA-C	6.26	122.37	109.34
2	B	555	ILE	N-CA-C	6.26	122.37	109.34
2	F	555	ILE	N-CA-C	6.26	122.36	109.34
2	H	555	ILE	N-CA-C	6.25	122.35	109.34
2	J	555	ILE	N-CA-C	6.25	122.35	109.34
2	L	555	ILE	N-CA-C	6.25	122.35	109.34
4	W	122	ASP	N-CA-C	6.24	116.31	108.45
3	O	248	GLU	CA-C-N	6.19	133.37	121.54
3	O	248	GLU	C-N-CA	6.19	133.37	121.54
3	R	248	GLU	CA-C-N	6.19	133.37	121.54
3	R	248	GLU	C-N-CA	6.19	133.37	121.54
3	V	248	GLU	CA-C-N	6.18	133.35	121.54
3	V	248	GLU	C-N-CA	6.18	133.35	121.54
3	N	248	GLU	CA-C-N	6.18	133.34	121.54
3	N	248	GLU	C-N-CA	6.18	133.34	121.54
3	P	248	GLU	CA-C-N	6.18	133.34	121.54
3	P	248	GLU	C-N-CA	6.18	133.34	121.54
3	M	248	GLU	CA-C-N	6.17	133.32	121.54
3	M	248	GLU	C-N-CA	6.17	133.32	121.54
1	G	584	MET	N-CA-C	-6.16	100.03	109.64
1	I	584	MET	N-CA-C	-6.14	100.06	109.64
1	K	584	MET	N-CA-C	-6.14	100.07	109.64
1	A	584	MET	N-CA-C	-6.13	100.08	109.64

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	C	584	MET	N-CA-C	-6.13	100.08	109.64
1	K	415	LYS	N-CA-C	-6.12	104.54	111.14
1	C	415	LYS	N-CA-C	-6.11	104.54	111.14
1	E	584	MET	N-CA-C	-6.11	100.11	109.64
1	A	415	LYS	N-CA-C	-6.08	104.57	111.14
1	E	415	LYS	N-CA-C	-6.08	104.57	111.14
1	G	415	LYS	N-CA-C	-6.07	104.59	111.14
1	I	415	LYS	N-CA-C	-6.06	104.59	111.14
1	K	170	GLU	N-CA-C	6.03	119.47	111.75
1	C	170	GLU	N-CA-C	6.03	119.47	111.75
3	N	135	ILE	N-CA-C	6.02	116.97	108.36
1	G	170	GLU	N-CA-C	6.02	119.45	111.75
3	P	135	ILE	N-CA-C	6.01	116.96	108.36
2	D	142	ALA	N-CA-C	-6.01	101.51	111.37
1	E	170	GLU	N-CA-C	6.01	119.44	111.75
1	A	170	GLU	N-CA-C	6.00	119.44	111.75
3	R	135	ILE	N-CA-C	6.00	116.94	108.36
3	M	135	ILE	N-CA-C	6.00	116.94	108.36
2	F	142	ALA	N-CA-C	-6.00	101.53	111.37
3	V	135	ILE	N-CA-C	6.00	116.94	108.36
3	O	135	ILE	N-CA-C	5.99	116.93	108.36
2	B	142	ALA	N-CA-C	-5.99	101.55	111.37
2	H	142	ALA	N-CA-C	-5.99	101.55	111.37
2	L	142	ALA	N-CA-C	-5.98	101.56	111.37
2	J	142	ALA	N-CA-C	-5.98	101.56	111.37
2	H	541	VAL	N-CA-C	5.98	116.45	110.23
1	I	170	GLU	N-CA-C	5.97	119.39	111.75
3	N	18	CYS	N-CA-C	5.97	116.30	107.88
3	M	18	CYS	N-CA-C	5.96	116.28	107.88
2	B	581	PHE	CA-C-N	5.96	132.69	121.97
2	B	581	PHE	C-N-CA	5.96	132.69	121.97
2	L	541	VAL	N-CA-C	5.96	116.42	110.23
3	V	18	CYS	N-CA-C	5.96	116.28	107.88
3	O	18	CYS	N-CA-C	5.95	116.27	107.88
2	B	541	VAL	N-CA-C	5.95	116.42	110.23
2	J	541	VAL	N-CA-C	5.94	116.41	110.23
3	P	18	CYS	N-CA-C	5.94	116.26	107.88
2	F	541	VAL	N-CA-C	5.94	116.40	110.23
2	D	541	VAL	N-CA-C	5.94	116.40	110.23
3	R	18	CYS	N-CA-C	5.94	116.25	107.88
1	G	449	VAL	N-CA-C	5.93	121.68	109.34
1	C	449	VAL	N-CA-C	5.93	121.67	109.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	I	449	VAL	N-CA-C	5.93	121.67	109.34
1	E	449	VAL	N-CA-C	5.92	121.66	109.34
3	V	329	VAL	N-CA-C	5.92	117.97	108.85
1	A	449	VAL	N-CA-C	5.92	121.66	109.34
3	P	329	VAL	N-CA-C	5.92	117.97	108.85
1	G	496	GLU	N-CA-C	5.91	122.86	109.81
1	I	496	GLU	N-CA-C	5.91	122.86	109.81
1	K	449	VAL	N-CA-C	5.90	121.61	109.34
2	H	198	ASP	N-CA-C	-5.90	98.30	108.56
1	E	496	GLU	N-CA-C	5.89	122.83	109.81
2	F	198	ASP	N-CA-C	-5.89	98.31	108.56
1	A	496	GLU	N-CA-C	5.89	122.82	109.81
2	J	198	ASP	N-CA-C	-5.89	98.32	108.56
1	K	496	GLU	N-CA-C	5.88	122.81	109.81
2	B	198	ASP	N-CA-C	-5.88	98.33	108.56
1	C	496	GLU	N-CA-C	5.88	122.80	109.81
2	D	198	ASP	N-CA-C	-5.87	98.35	108.56
2	L	198	ASP	N-CA-C	-5.86	98.36	108.56
2	L	570	LEU	N-CA-C	-5.82	104.84	111.07
2	H	570	LEU	N-CA-C	-5.82	104.84	111.07
2	D	570	LEU	N-CA-C	-5.82	104.84	111.07
2	B	570	LEU	N-CA-C	-5.81	104.85	111.07
2	F	252	ASN	N-CA-C	5.81	118.19	108.73
2	L	252	ASN	N-CA-C	5.81	118.19	108.73
2	J	570	LEU	N-CA-C	-5.80	104.87	111.07
2	J	252	ASN	N-CA-C	5.79	118.17	108.73
2	F	570	LEU	N-CA-C	-5.79	104.88	111.07
2	B	252	ASN	N-CA-C	5.79	118.16	108.73
3	R	329	VAL	N-CA-C	5.78	118.01	108.99
4	Q	117	PHE	N-CA-C	-5.78	105.32	112.72
4	X	117	PHE	N-CA-C	-5.78	105.33	112.72
2	J	549	SER	N-CA-C	5.77	118.58	107.44
4	W	117	PHE	N-CA-C	-5.77	105.33	112.72
3	M	329	VAL	N-CA-C	5.77	117.99	108.99
2	H	252	ASN	N-CA-C	5.77	118.14	108.73
3	O	202	VAL	N-CA-C	5.76	118.14	108.81
3	R	202	VAL	N-CA-C	5.76	118.14	108.81
2	D	252	ASN	N-CA-C	5.76	118.12	108.73
1	E	297	MET	N-CA-C	5.76	118.42	111.40
2	H	549	SER	N-CA-C	5.76	118.55	107.44
3	O	329	VAL	N-CA-C	5.76	117.97	108.99
3	M	202	VAL	N-CA-C	5.75	118.13	108.81

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	P	202	VAL	N-CA-C	5.75	118.13	108.81
4	S	117	PHE	N-CA-C	-5.75	105.36	112.72
2	D	549	SER	N-CA-C	5.75	118.54	107.44
3	N	202	VAL	N-CA-C	5.75	118.12	108.81
2	B	549	SER	N-CA-C	5.75	118.54	107.44
2	F	549	SER	N-CA-C	5.75	118.53	107.44
3	N	329	VAL	N-CA-C	5.75	117.95	108.99
4	U	117	PHE	N-CA-C	-5.75	105.36	112.72
3	V	202	VAL	N-CA-C	5.74	118.11	108.81
1	A	297	MET	N-CA-C	5.74	118.40	111.40
2	H	229	TYR	N-CA-C	5.74	123.02	110.80
2	D	229	TYR	N-CA-C	5.74	123.02	110.80
2	L	549	SER	N-CA-C	5.74	118.51	107.44
3	R	214	LEU	N-CA-C	5.74	118.13	109.41
2	J	229	TYR	N-CA-C	5.73	123.01	110.80
2	B	229	TYR	N-CA-C	5.73	123.01	110.80
1	C	297	MET	N-CA-C	5.73	118.39	111.40
1	G	297	MET	N-CA-C	5.73	118.39	111.40
1	I	297	MET	N-CA-C	5.73	118.39	111.40
2	L	229	TYR	N-CA-C	5.73	123.00	110.80
3	N	214	LEU	N-CA-C	5.73	118.12	109.41
2	F	229	TYR	N-CA-C	5.72	122.99	110.80
4	T	117	PHE	N-CA-C	-5.72	105.39	112.72
3	V	214	LEU	N-CA-C	5.72	118.10	109.41
1	K	228	MET	N-CA-C	5.72	120.80	111.37
1	K	297	MET	N-CA-C	5.71	118.37	111.40
3	P	64	ASN	N-CA-CB	-5.71	105.26	113.65
3	P	214	LEU	N-CA-C	5.71	118.09	109.41
3	M	214	LEU	N-CA-C	5.71	118.08	109.41
3	M	64	ASN	N-CA-CB	-5.70	105.27	113.65
3	V	64	ASN	N-CA-CB	-5.70	105.27	113.65
1	I	228	MET	N-CA-C	5.70	120.77	111.37
3	N	64	ASN	N-CA-CB	-5.70	105.28	113.65
1	A	228	MET	N-CA-C	5.69	120.76	111.37
3	R	64	ASN	N-CA-CB	-5.69	105.29	113.65
1	C	228	MET	N-CA-C	5.69	120.75	111.37
1	E	228	MET	N-CA-C	5.68	120.74	111.37
3	O	64	ASN	N-CA-CB	-5.67	105.31	113.65
1	G	228	MET	N-CA-C	5.67	120.73	111.37
3	O	214	LEU	N-CA-C	5.67	118.03	109.41
3	N	249	ASN	N-CA-C	5.65	122.84	110.80
3	P	249	ASN	N-CA-C	5.65	122.84	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	M	249	ASN	N-CA-C	5.65	122.83	110.80
3	R	249	ASN	N-CA-C	5.63	122.80	110.80
3	V	249	ASN	N-CA-C	5.63	122.79	110.80
1	E	180	LYS	N-CA-C	5.63	122.78	110.80
1	C	180	LYS	N-CA-C	5.62	122.77	110.80
1	A	180	LYS	N-CA-C	5.62	122.77	110.80
3	O	249	ASN	N-CA-C	5.62	122.77	110.80
2	L	157	GLU	CA-C-N	5.61	128.12	120.54
2	L	157	GLU	C-N-CA	5.61	128.12	120.54
2	L	190	SER	N-CA-C	-5.61	100.47	109.39
1	G	180	LYS	N-CA-C	5.61	122.75	110.80
1	I	180	LYS	N-CA-C	5.61	122.74	110.80
2	J	157	GLU	CA-C-N	5.60	128.11	120.54
2	J	157	GLU	C-N-CA	5.60	128.11	120.54
2	H	157	GLU	CA-C-N	5.60	128.10	120.54
2	H	157	GLU	C-N-CA	5.60	128.10	120.54
1	K	180	LYS	N-CA-C	5.60	122.73	110.80
2	D	111	GLY	N-CA-C	5.60	121.16	113.99
2	F	190	SER	N-CA-C	-5.60	100.49	109.39
3	P	284	GLU	N-CA-C	5.60	117.08	107.28
2	F	544	GLU	N-CA-C	-5.59	101.91	110.30
3	R	284	GLU	N-CA-C	5.59	117.07	107.28
2	H	575	HIS	N-CA-C	-5.59	104.43	111.92
3	P	179	VAL	CB-CA-C	-5.59	105.11	111.59
3	M	284	GLU	N-CA-C	5.59	117.06	107.28
2	D	575	HIS	N-CA-C	-5.58	104.44	111.92
2	H	111	GLY	N-CA-C	5.58	121.13	113.99
2	J	190	SER	N-CA-C	-5.58	100.52	109.39
2	D	157	GLU	CA-C-N	5.58	128.07	120.54
2	D	157	GLU	C-N-CA	5.58	128.07	120.54
2	B	575	HIS	N-CA-C	-5.58	104.44	111.92
2	L	111	GLY	N-CA-C	5.58	121.13	113.99
3	O	284	GLU	N-CA-C	5.58	117.04	107.28
2	B	157	GLU	CA-C-N	5.58	128.07	120.54
2	B	157	GLU	C-N-CA	5.58	128.07	120.54
2	F	157	GLU	CA-C-N	5.58	128.07	120.54
2	F	157	GLU	C-N-CA	5.58	128.07	120.54
3	N	284	GLU	N-CA-C	5.58	117.04	107.28
2	B	190	SER	N-CA-C	-5.57	100.53	109.39
2	D	544	GLU	N-CA-C	-5.57	101.94	110.30
2	B	111	GLY	N-CA-C	5.57	121.12	113.99
2	B	544	GLU	N-CA-C	-5.57	101.94	110.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	D	190	SER	N-CA-C	-5.57	100.53	109.39
1	G	581	LEU	N-CA-C	5.57	117.21	111.03
2	L	544	GLU	N-CA-C	-5.57	101.95	110.30
1	I	483	TYR	N-CA-C	5.57	120.76	113.30
1	E	483	TYR	N-CA-C	5.57	120.76	113.30
2	J	575	HIS	N-CA-C	-5.57	104.46	111.92
2	F	111	GLY	N-CA-C	5.56	121.11	113.99
2	H	190	SER	N-CA-C	-5.56	100.55	109.39
3	R	179	VAL	CB-CA-C	-5.56	105.14	111.59
3	V	284	GLU	N-CA-C	5.56	117.01	107.28
3	M	179	VAL	CB-CA-C	-5.56	105.14	111.59
3	O	179	VAL	CB-CA-C	-5.56	105.14	111.59
2	H	544	GLU	N-CA-C	-5.56	101.96	110.30
1	A	483	TYR	N-CA-C	5.55	120.74	113.30
1	C	483	TYR	N-CA-C	5.55	120.74	113.30
1	E	581	LEU	N-CA-C	5.55	117.19	111.03
3	P	72	LYS	N-CA-C	-5.55	106.19	113.12
1	C	581	LEU	N-CA-C	5.55	117.19	111.03
2	F	575	HIS	N-CA-C	-5.55	104.49	111.92
1	I	581	LEU	N-CA-C	5.55	117.19	111.03
2	L	575	HIS	N-CA-C	-5.55	104.49	111.92
1	A	581	LEU	N-CA-C	5.54	117.18	111.03
3	O	72	LYS	N-CA-C	-5.54	106.19	113.12
1	G	483	TYR	N-CA-C	5.54	120.72	113.30
3	N	179	VAL	CB-CA-C	-5.54	105.17	111.59
3	V	72	LYS	N-CA-C	-5.54	106.20	113.12
2	J	111	GLY	N-CA-C	5.54	121.08	113.99
3	V	179	VAL	CB-CA-C	-5.54	105.17	111.59
2	J	544	GLU	N-CA-C	-5.53	102.00	110.30
1	K	581	LEU	N-CA-C	5.53	117.17	111.03
3	M	72	LYS	N-CA-C	-5.52	106.22	113.12
1	K	483	TYR	N-CA-C	5.51	120.69	113.30
3	R	72	LYS	N-CA-C	-5.51	106.23	113.12
2	L	157	GLU	N-CA-C	-5.51	104.11	112.04
2	F	157	GLU	N-CA-C	-5.50	104.11	112.04
3	N	72	LYS	N-CA-C	-5.50	106.24	113.12
2	B	157	GLU	N-CA-C	-5.49	104.14	112.04
2	H	157	GLU	N-CA-C	-5.48	104.15	112.04
2	J	157	GLU	N-CA-C	-5.47	104.16	112.04
3	P	166	TYR	N-CA-C	5.47	122.45	110.80
2	D	157	GLU	N-CA-C	-5.46	104.17	112.04
2	L	420	LYS	N-CA-C	5.46	118.41	111.69

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	M	166	TYR	N-CA-C	5.46	122.43	110.80
3	R	166	TYR	N-CA-C	5.46	122.43	110.80
3	V	166	TYR	N-CA-C	5.46	122.42	110.80
2	J	420	LYS	N-CA-C	5.45	118.40	111.69
3	N	166	TYR	N-CA-C	5.45	122.42	110.80
2	J	497	THR	N-CA-C	-5.45	105.36	112.23
2	B	420	LYS	N-CA-C	5.45	118.39	111.69
2	D	420	LYS	N-CA-C	5.45	118.39	111.69
2	F	420	LYS	N-CA-C	5.45	118.39	111.69
3	O	166	TYR	N-CA-C	5.45	122.40	110.80
2	H	420	LYS	N-CA-C	5.43	118.37	111.69
2	D	497	THR	N-CA-C	-5.43	105.39	112.23
2	B	497	THR	N-CA-C	-5.41	105.41	112.23
1	I	197	LEU	N-CA-C	-5.41	104.42	111.02
2	L	497	THR	N-CA-C	-5.40	105.42	112.23
1	I	588	GLU	N-CA-C	5.40	118.25	109.24
2	J	115	VAL	N-CA-C	5.39	117.33	108.97
2	F	497	THR	N-CA-C	-5.39	105.44	112.23
1	A	588	GLU	N-CA-C	5.38	118.23	109.24
1	E	588	GLU	N-CA-C	5.38	118.23	109.24
2	D	115	VAL	N-CA-C	5.38	117.31	108.97
2	B	115	VAL	N-CA-C	5.38	117.30	108.97
2	D	460	ASP	N-CA-C	-5.38	105.06	111.03
1	K	197	LEU	N-CA-C	-5.38	104.46	111.02
1	G	588	GLU	N-CA-C	5.37	118.22	109.24
2	H	497	THR	N-CA-C	-5.37	105.46	112.23
2	F	115	VAL	N-CA-C	5.37	117.29	108.97
1	C	588	GLU	N-CA-C	5.37	118.20	109.24
1	G	197	LEU	N-CA-C	-5.36	104.48	111.02
1	A	197	LEU	N-CA-C	-5.36	104.48	111.02
1	K	588	GLU	N-CA-C	5.36	118.19	109.24
2	H	115	VAL	N-CA-C	5.36	117.27	108.97
2	L	115	VAL	N-CA-C	5.36	117.27	108.97
2	L	460	ASP	N-CA-C	-5.35	105.09	111.03
1	E	197	LEU	N-CA-C	-5.35	104.49	111.02
2	B	45	LYS	N-CA-C	-5.34	103.56	110.19
1	C	197	LEU	N-CA-C	-5.34	104.51	111.02
2	J	45	LYS	N-CA-C	-5.34	103.57	110.19
2	D	45	LYS	N-CA-C	-5.34	103.57	110.19
2	F	45	LYS	N-CA-C	-5.33	103.58	110.19
2	H	45	LYS	N-CA-C	-5.33	103.58	110.19
2	L	346	ALA	N-CA-C	5.33	118.42	109.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	B	460	ASP	N-CA-C	-5.32	105.12	111.03
2	F	460	ASP	N-CA-C	-5.32	105.12	111.03
2	H	460	ASP	N-CA-C	-5.32	105.13	111.03
2	J	460	ASP	N-CA-C	-5.32	105.13	111.03
2	J	346	ALA	N-CA-C	5.32	118.40	109.95
2	B	346	ALA	N-CA-C	5.31	118.39	109.95
2	H	346	ALA	N-CA-C	5.30	118.38	109.95
1	I	84	ILE	N-CA-C	-5.30	104.79	110.36
2	L	45	LYS	N-CA-C	-5.30	103.62	110.19
1	A	84	ILE	N-CA-C	-5.30	104.80	110.36
2	D	323	VAL	CB-CA-C	-5.29	106.22	111.30
2	D	346	ALA	N-CA-C	5.29	118.37	109.95
2	F	346	ALA	N-CA-C	5.29	118.37	109.95
1	E	84	ILE	N-CA-C	-5.29	104.81	110.36
1	K	84	ILE	N-CA-C	-5.29	104.81	110.36
1	C	84	ILE	N-CA-C	-5.29	104.81	110.36
2	H	323	VAL	CB-CA-C	-5.28	106.23	111.30
2	H	10	THR	N-CA-C	-5.28	107.37	112.97
2	J	323	VAL	CB-CA-C	-5.28	106.24	111.30
2	B	323	VAL	CB-CA-C	-5.27	106.24	111.30
2	F	4	SER	N-CA-C	5.27	117.19	108.13
2	J	4	SER	N-CA-C	5.27	117.19	108.13
1	G	84	ILE	N-CA-C	-5.27	104.83	110.36
2	D	10	THR	N-CA-C	-5.26	107.39	112.97
1	G	2	PRO	CA-N-CD	-5.26	104.63	112.00
1	G	314	GLY	N-CA-C	-5.26	106.27	112.64
1	E	2	PRO	CA-N-CD	-5.26	104.64	112.00
2	L	323	VAL	CB-CA-C	-5.26	106.25	111.30
1	I	2	PRO	CA-N-CD	-5.26	104.64	112.00
2	B	10	THR	N-CA-C	-5.25	107.40	112.97
3	N	421	ARG	N-CA-C	5.25	118.23	110.46
1	C	314	GLY	N-CA-C	-5.25	106.29	112.64
2	D	4	SER	N-CA-C	5.25	117.15	108.13
2	F	10	THR	N-CA-C	-5.25	107.41	112.97
2	J	10	THR	N-CA-C	-5.25	107.41	112.97
2	F	323	VAL	CB-CA-C	-5.24	106.27	111.30
1	K	2	PRO	CA-N-CD	-5.24	104.66	112.00
2	L	4	SER	N-CA-C	5.24	117.15	108.13
1	A	2	PRO	CA-N-CD	-5.24	104.66	112.00
3	P	421	ARG	N-CA-C	5.24	118.22	110.46
2	B	4	SER	N-CA-C	5.24	117.14	108.13
1	A	314	GLY	N-CA-C	-5.24	106.30	112.64

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	I	314	GLY	N-CA-C	-5.24	106.30	112.64
2	H	4	SER	N-CA-C	5.23	117.13	108.13
2	F	440	ASP	CA-C-N	-5.23	113.78	123.55
2	F	440	ASP	C-N-CA	-5.23	113.78	123.55
1	E	215	LEU	N-CA-C	5.22	121.93	110.80
3	M	421	ARG	N-CA-C	5.22	118.19	110.46
1	I	215	LEU	N-CA-C	5.22	121.92	110.80
1	K	215	LEU	N-CA-C	5.22	121.93	110.80
3	O	421	ARG	N-CA-C	5.22	118.19	110.46
1	A	215	LEU	N-CA-C	5.22	121.92	110.80
3	V	312	ILE	N-CA-C	5.22	115.48	108.17
3	R	421	ARG	N-CA-C	5.22	118.18	110.46
1	C	2	PRO	CA-N-CD	-5.22	104.69	112.00
2	D	440	ASP	CA-C-N	-5.22	113.79	123.55
2	D	440	ASP	C-N-CA	-5.22	113.79	123.55
2	L	10	THR	N-CA-C	-5.22	107.44	112.97
1	G	215	LEU	N-CA-C	5.21	121.90	110.80
1	C	215	LEU	N-CA-C	5.21	121.90	110.80
1	E	314	GLY	N-CA-C	-5.21	106.34	112.64
3	M	310	VAL	CB-CA-C	-5.21	104.10	111.28
2	B	440	ASP	CA-C-N	-5.20	113.82	123.55
2	B	440	ASP	C-N-CA	-5.20	113.82	123.55
3	O	310	VAL	CB-CA-C	-5.20	104.10	111.28
2	J	440	ASP	CA-C-N	-5.20	113.83	123.55
2	J	440	ASP	C-N-CA	-5.20	113.83	123.55
3	R	312	ILE	N-CA-C	5.20	115.44	108.17
3	P	312	ILE	N-CA-C	5.20	115.44	108.17
3	M	312	ILE	N-CA-C	5.19	115.44	108.17
3	R	310	VAL	CB-CA-C	-5.19	104.11	111.28
1	K	314	GLY	N-CA-C	-5.19	106.36	112.64
2	L	440	ASP	CA-C-N	-5.19	113.85	123.55
2	L	440	ASP	C-N-CA	-5.19	113.85	123.55
3	V	421	ARG	N-CA-C	5.19	118.14	110.46
1	E	488	VAL	N-CA-C	5.19	114.07	106.55
2	H	440	ASP	CA-C-N	-5.18	113.86	123.55
2	H	440	ASP	C-N-CA	-5.18	113.86	123.55
3	N	312	ILE	N-CA-C	5.18	115.43	108.17
3	P	310	VAL	CB-CA-C	-5.18	104.12	111.28
1	C	488	VAL	N-CA-C	5.18	114.06	106.55
3	O	312	ILE	N-CA-C	5.18	115.42	108.17
3	V	310	VAL	CB-CA-C	-5.17	104.14	111.28
2	H	205	ASN	N-CA-C	-5.17	105.83	111.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	A	488	VAL	N-CA-C	5.17	114.04	106.55
1	G	488	VAL	N-CA-C	5.16	114.03	106.55
1	G	514	ILE	N-CA-C	5.16	115.30	110.30
1	I	488	VAL	N-CA-C	5.16	114.03	106.55
3	N	310	VAL	CB-CA-C	-5.16	104.17	111.28
3	O	235	ASP	N-CA-C	5.15	117.63	109.50
2	B	205	ASN	N-CA-C	-5.14	105.85	111.82
1	C	499	GLN	N-CA-C	5.14	116.64	108.67
1	K	514	ILE	N-CA-C	5.14	115.29	110.30
2	H	203	SER	CA-C-N	5.14	127.72	120.42
2	H	203	SER	C-N-CA	5.14	127.72	120.42
1	A	514	ILE	N-CA-C	5.14	115.28	110.30
2	L	205	ASN	N-CA-C	-5.14	105.86	111.82
1	K	488	VAL	N-CA-C	5.13	114.00	106.55
3	R	376	ILE	N-CA-C	5.13	115.67	108.89
2	F	203	SER	CA-C-N	5.13	127.71	120.42
2	F	203	SER	C-N-CA	5.13	127.71	120.42
3	P	235	ASP	N-CA-C	5.13	117.61	109.50
3	R	235	ASP	N-CA-C	5.13	117.61	109.50
2	F	205	ASN	N-CA-C	-5.13	105.87	111.82
1	G	499	GLN	N-CA-C	5.13	116.62	108.67
1	I	4	PRO	N-CA-C	5.13	123.04	112.47
2	D	205	ASN	N-CA-C	-5.13	105.87	111.82
1	I	514	ILE	N-CA-C	5.13	115.27	110.30
3	M	235	ASP	N-CA-C	5.12	117.59	109.50
3	V	235	ASP	N-CA-C	5.12	117.60	109.50
2	J	205	ASN	N-CA-C	-5.12	105.88	111.82
3	N	124	GLN	N-CA-C	-5.12	99.89	110.80
3	N	235	ASP	N-CA-C	5.12	117.59	109.50
2	D	203	SER	CA-C-N	5.12	127.69	120.42
2	D	203	SER	C-N-CA	5.12	127.69	120.42
1	C	514	ILE	N-CA-C	5.12	115.27	110.30
2	B	203	SER	CA-C-N	5.12	127.69	120.42
2	B	203	SER	C-N-CA	5.12	127.69	120.42
1	E	499	GLN	N-CA-C	5.12	116.60	108.67
1	E	4	PRO	N-CA-C	5.11	123.00	112.47
3	M	124	GLN	N-CA-C	-5.11	99.91	110.80
1	A	499	GLN	N-CA-C	5.11	116.59	108.67
2	J	203	SER	CA-C-N	5.11	127.68	120.42
2	J	203	SER	C-N-CA	5.11	127.68	120.42
3	R	124	GLN	N-CA-C	-5.11	99.92	110.80
3	V	376	ILE	N-CA-C	5.11	115.64	108.89

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	A	4	PRO	N-CA-C	5.11	122.99	112.47
1	I	499	GLN	N-CA-C	5.11	116.59	108.67
3	M	376	ILE	N-CA-C	5.11	115.63	108.89
3	N	316	VAL	CA-C-N	5.11	126.22	119.84
3	N	316	VAL	C-N-CA	5.11	126.22	119.84
3	O	124	GLN	N-CA-C	-5.11	99.92	110.80
1	K	4	PRO	N-CA-C	5.11	122.99	112.47
2	L	203	SER	CA-C-N	5.11	127.67	120.42
2	L	203	SER	C-N-CA	5.11	127.67	120.42
3	V	337	GLU	N-CA-C	-5.11	102.72	110.28
3	V	124	GLN	N-CA-C	-5.10	99.93	110.80
3	P	337	GLU	N-CA-C	-5.10	102.73	110.28
3	N	376	ILE	N-CA-C	5.10	115.62	108.89
1	C	4	PRO	N-CA-C	5.10	122.97	112.47
3	P	124	GLN	N-CA-C	-5.10	99.94	110.80
1	K	499	GLN	N-CA-C	5.09	116.56	108.67
3	M	337	GLU	N-CA-C	-5.09	102.74	110.28
2	H	576	LYS	CA-C-N	5.09	125.62	120.38
2	H	576	LYS	C-N-CA	5.09	125.62	120.38
1	G	4	PRO	N-CA-C	5.09	122.95	112.47
3	R	75	ALA	N-CA-C	5.09	117.25	110.53
1	E	514	ILE	N-CA-C	5.08	115.23	110.30
3	P	376	ILE	N-CA-C	5.08	115.59	108.89
2	L	245	THR	CA-C-N	-5.08	113.49	119.84
2	L	245	THR	C-N-CA	-5.08	113.49	119.84
3	N	337	GLU	N-CA-C	-5.08	102.77	110.28
4	Q	19	TRP	N-CA-C	5.08	117.01	108.73
3	O	337	GLU	N-CA-C	-5.08	102.77	110.28
3	O	75	ALA	N-CA-C	5.07	117.23	110.53
3	V	75	ALA	N-CA-C	5.07	117.23	110.53
3	M	75	ALA	N-CA-C	5.07	117.22	110.53
3	M	316	VAL	CA-C-N	5.07	126.18	119.84
3	M	316	VAL	C-N-CA	5.07	126.18	119.84
3	N	75	ALA	N-CA-C	5.07	117.22	110.53
3	O	376	ILE	N-CA-C	5.07	115.58	108.89
3	R	337	GLU	N-CA-C	-5.07	102.78	110.28
3	V	316	VAL	CA-C-N	5.07	126.17	119.84
3	V	316	VAL	C-N-CA	5.07	126.17	119.84
3	R	316	VAL	CA-C-N	5.07	126.17	119.84
3	R	316	VAL	C-N-CA	5.07	126.17	119.84
3	P	75	ALA	N-CA-C	5.06	117.21	110.53
3	P	295	VAL	N-CA-C	5.06	115.14	107.75

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	F	576	LYS	CA-C-N	5.06	125.59	120.38
2	F	576	LYS	C-N-CA	5.06	125.59	120.38
2	H	245	THR	CA-C-N	-5.06	113.52	119.84
2	H	245	THR	C-N-CA	-5.06	113.52	119.84
2	J	576	LYS	CA-C-N	5.06	125.59	120.38
2	J	576	LYS	C-N-CA	5.06	125.59	120.38
4	T	19	TRP	N-CA-C	5.06	116.97	108.73
3	P	316	VAL	CA-C-N	5.06	126.16	119.84
3	P	316	VAL	C-N-CA	5.06	126.16	119.84
4	S	19	TRP	N-CA-C	5.05	116.97	108.73
2	F	130	LEU	CA-CB-CG	-5.05	98.62	116.30
3	N	295	VAL	N-CA-C	5.05	115.12	107.75
2	B	576	LYS	CA-C-N	5.05	125.58	120.38
2	B	576	LYS	C-N-CA	5.05	125.58	120.38
1	C	495	GLU	N-CA-C	5.05	121.56	110.80
2	B	130	LEU	CA-CB-CG	-5.05	98.64	116.30
2	H	130	LEU	CA-CB-CG	-5.05	98.64	116.30
1	I	495	GLU	N-CA-C	5.05	121.55	110.80
2	L	215	THR	N-CA-C	-5.05	100.05	110.80
3	M	295	VAL	N-CA-C	5.05	115.12	107.75
1	A	495	GLU	N-CA-C	5.04	121.55	110.80
1	E	495	GLU	N-CA-C	5.04	121.55	110.80
2	J	215	THR	N-CA-C	-5.04	100.06	110.80
4	X	19	TRP	N-CA-C	5.04	116.95	108.73
2	B	215	THR	N-CA-C	-5.04	100.06	110.80
2	D	215	THR	N-CA-C	-5.04	100.06	110.80
3	R	295	VAL	N-CA-C	5.04	115.11	107.75
4	U	19	TRP	N-CA-C	5.04	116.95	108.73
4	W	19	TRP	N-CA-C	5.04	116.95	108.73
3	O	295	VAL	N-CA-C	5.04	115.11	107.75
3	V	295	VAL	N-CA-C	5.04	115.11	107.75
1	K	495	GLU	N-CA-C	5.04	121.53	110.80
2	L	130	LEU	CA-CB-CG	-5.04	98.66	116.30
2	J	130	LEU	CA-CB-CG	-5.04	98.68	116.30
2	D	130	LEU	CA-CB-CG	-5.03	98.68	116.30
1	G	495	GLU	N-CA-C	5.03	121.52	110.80
2	H	215	THR	N-CA-C	-5.03	100.08	110.80
3	O	316	VAL	CA-C-N	5.03	126.13	119.84
3	O	316	VAL	C-N-CA	5.03	126.13	119.84
2	B	245	THR	CA-C-N	-5.03	113.56	119.84
2	B	245	THR	C-N-CA	-5.03	113.56	119.84
2	F	215	THR	N-CA-C	-5.03	100.09	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	C	150	ASN	N-CA-C	-5.02	97.07	107.67
3	R	51	ALA	N-CA-C	5.02	117.59	109.40
1	G	233	PRO	CA-N-CD	-5.02	104.97	112.00
2	F	245	THR	CA-C-N	-5.02	113.57	119.84
2	F	245	THR	C-N-CA	-5.02	113.57	119.84
1	A	150	ASN	N-CA-C	-5.02	97.09	107.67
1	E	150	ASN	N-CA-C	-5.01	97.10	107.67
1	G	150	ASN	N-CA-C	-5.01	97.10	107.67
2	J	245	THR	CA-C-N	-5.01	113.58	119.84
2	J	245	THR	C-N-CA	-5.01	113.58	119.84
2	L	576	LYS	CA-C-N	5.01	125.54	120.38
2	L	576	LYS	C-N-CA	5.01	125.54	120.38
3	P	51	ALA	N-CA-C	5.01	117.56	109.40
1	I	233	PRO	CA-N-CD	-5.00	104.99	112.00
2	D	245	THR	CA-C-N	-5.00	113.59	119.84
2	D	245	THR	C-N-CA	-5.00	113.59	119.84
1	K	150	ASN	N-CA-C	-5.00	97.11	107.67
3	O	320	ALA	N-CA-C	-5.00	103.80	110.55
3	M	51	ALA	N-CA-C	5.00	117.55	109.40

There are no chirality outliers.

All (12) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
3	M	166	TYR	Sidechain
3	M	85	TYR	Sidechain
3	N	166	TYR	Sidechain
3	N	85	TYR	Sidechain
3	O	166	TYR	Sidechain
3	O	85	TYR	Sidechain
3	P	166	TYR	Sidechain
3	P	85	TYR	Sidechain
3	R	166	TYR	Sidechain
3	R	85	TYR	Sidechain
3	V	166	TYR	Sidechain
3	V	85	TYR	Sidechain

5.2 Too-close contacts (i)

In the following table, the Non-H and H(model) columns list the number of non-hydrogen atoms and hydrogen atoms in the chain respectively. The H(added) column lists the number of hydrogen

atoms added and optimized by MolProbity. The Clashes column lists the number of clashes within the asymmetric unit, whereas Symm-Clashes lists symmetry-related clashes.

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	4663	0	4792	911	0
1	C	4663	0	4792	895	6
1	E	4663	0	4792	900	12
1	G	4663	0	4792	910	0
1	I	4663	0	4792	885	7
1	K	4663	0	4792	898	12
2	B	4558	0	4674	930	0
2	D	4558	0	4674	927	0
2	F	4558	0	4674	928	3
2	H	4558	0	4674	936	0
2	J	4558	0	4674	929	0
2	L	4558	0	4674	916	4
3	M	3166	0	3178	464	0
3	N	3166	0	3178	462	0
3	O	3166	0	3178	452	0
3	P	3166	0	3178	463	0
3	R	3166	0	3178	459	0
3	V	3166	0	3178	453	0
4	Q	1237	0	1261	242	0
4	S	1237	0	1261	230	0
4	T	1237	0	1261	239	0
4	U	1237	0	1261	231	0
4	W	1237	0	1261	236	0
4	X	1237	0	1261	237	0
All	All	81744	0	83430	14652	22

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 89.

All (14652) 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)
2:B:139:LYS:HD3	2:B:175:MET:HE2	1.21	1.19
1:E:488:VAL:HA	1:E:500:VAL:HG11	1.20	1.19
2:F:139:LYS:HD3	2:F:175:MET:HE2	1.21	1.18
1:A:482:GLU:HB3	1:A:584:MET:SD	1.83	1.18
1:E:482:GLU:HB3	1:E:584:MET:SD	1.83	1.18
1:G:482:GLU:HB3	1:G:584:MET:SD	1.83	1.17
1:K:482:GLU:HB3	1:K:584:MET:SD	1.83	1.17

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:482:GLU:HB3	1:I:584:MET:SD	1.83	1.16
1:C:482:GLU:HB3	1:C:584:MET:SD	1.83	1.16
2:D:139:LYS:HD3	2:D:175:MET:HE2	1.21	1.16
2:H:139:LYS:HD3	2:H:175:MET:HE2	1.21	1.16
1:K:488:VAL:HA	1:K:500:VAL:HG11	1.20	1.15
1:C:488:VAL:HA	1:C:500:VAL:HG11	1.20	1.14
2:J:130:LEU:HD21	2:J:141:ALA:HB3	1.26	1.14
2:L:130:LEU:HD21	2:L:141:ALA:HB3	1.26	1.14
3:O:98:LEU:H	3:O:98:LEU:HD22	1.10	1.13
1:I:488:VAL:HA	1:I:500:VAL:HG11	1.20	1.13
3:M:98:LEU:HD22	3:M:98:LEU:H	1.10	1.13
2:B:130:LEU:HD21	2:B:141:ALA:HB3	1.26	1.13
2:L:139:LYS:HD3	2:L:175:MET:HE2	1.21	1.12
2:H:130:LEU:HD21	2:H:141:ALA:HB3	1.26	1.11
3:R:98:LEU:H	3:R:98:LEU:HD22	1.10	1.11
2:D:162:LEU:HA	2:D:165:LEU:HD12	1.32	1.11
4:T:11:GLN:H	4:T:11:GLN:NE2	1.49	1.11
1:A:488:VAL:HA	1:A:500:VAL:HG11	1.20	1.11
4:S:11:GLN:NE2	4:S:11:GLN:H	1.49	1.11
2:D:130:LEU:HD21	2:D:141:ALA:HB3	1.26	1.10
2:J:162:LEU:HA	2:J:165:LEU:HD12	1.32	1.10
3:P:98:LEU:HD22	3:P:98:LEU:H	1.10	1.10
4:Q:11:GLN:H	4:Q:11:GLN:NE2	1.49	1.10
1:G:488:VAL:HA	1:G:500:VAL:HG11	1.20	1.10
1:K:390:ASP:HA	1:K:428:THR:HG21	1.34	1.09
2:J:139:LYS:HD3	2:J:175:MET:HE2	1.21	1.09
1:E:390:ASP:HA	1:E:428:THR:HG21	1.34	1.09
2:L:162:LEU:HA	2:L:165:LEU:HD12	1.32	1.09
3:N:11:LEU:H	3:N:11:LEU:HD12	1.16	1.09
4:X:11:GLN:H	4:X:11:GLN:NE2	1.49	1.08
1:I:390:ASP:HA	1:I:428:THR:HG21	1.34	1.08
2:F:130:LEU:HD21	2:F:141:ALA:HB3	1.26	1.08
1:I:135:CYS:HB3	1:I:164:VAL:HG13	1.36	1.08
2:F:162:LEU:HA	2:F:165:LEU:HD12	1.32	1.08
1:G:135:CYS:HB3	1:G:164:VAL:HG13	1.36	1.08
4:W:11:GLN:NE2	4:W:11:GLN:H	1.49	1.08
3:M:11:LEU:H	3:M:11:LEU:HD12	1.16	1.08
4:U:11:GLN:H	4:U:11:GLN:NE2	1.49	1.08
1:E:6:ARG:HD3	3:M:337:GLU:HG2	1.36	1.07
1:E:135:CYS:HB3	1:E:164:VAL:HG13	1.36	1.07
3:N:98:LEU:H	3:N:98:LEU:HD22	1.10	1.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:390:ASP:HA	1:A:428:THR:HG21	1.34	1.07
1:K:135:CYS:HB3	1:K:164:VAL:HG13	1.36	1.07
3:V:98:LEU:H	3:V:98:LEU:HD22	1.10	1.06
2:F:298:PRO:O	2:F:302:PRO:HD2	1.56	1.06
2:H:162:LEU:HA	2:H:165:LEU:HD12	1.32	1.06
2:L:298:PRO:O	2:L:302:PRO:HD2	1.56	1.06
3:O:106:ASN:HB3	3:O:109:ILE:HD11	1.37	1.06
3:R:106:ASN:HB3	3:R:109:ILE:HD11	1.37	1.06
3:V:106:ASN:HB3	3:V:109:ILE:HD11	1.37	1.06
2:H:450:TRP:HB2	2:H:483:GLN:HG2	1.37	1.06
3:O:11:LEU:H	3:O:11:LEU:HD12	1.16	1.06
2:H:387:SER:HA	2:H:390:ARG:HD2	1.38	1.06
1:C:135:CYS:HB3	1:C:164:VAL:HG13	1.36	1.05
1:C:390:ASP:HA	1:C:428:THR:HG21	1.34	1.05
1:I:422:ILE:O	1:I:425:VAL:HG12	1.56	1.05
2:J:450:TRP:HB2	2:J:483:GLN:HG2	1.37	1.05
1:A:422:ILE:O	1:A:425:VAL:HG12	1.56	1.05
2:L:387:SER:HA	2:L:390:ARG:HD2	1.38	1.05
1:G:422:ILE:O	1:G:425:VAL:HG12	1.56	1.05
2:H:60:THR:HG22	2:H:61:ASP:H	1.21	1.05
2:L:450:TRP:HB2	2:L:483:GLN:HG2	1.37	1.05
3:M:106:ASN:HB3	3:M:109:ILE:HD11	1.37	1.05
3:N:106:ASN:HB3	3:N:109:ILE:HD11	1.37	1.05
3:P:11:LEU:HD12	3:P:11:LEU:H	1.16	1.05
2:D:298:PRO:O	2:D:302:PRO:HD2	1.56	1.05
3:V:11:LEU:H	3:V:11:LEU:HD12	1.16	1.05
2:F:347:SER:N	2:F:350:ASN:HD22	1.55	1.05
1:I:172:MET:H	1:I:172:MET:HE3	1.22	1.05
2:B:298:PRO:O	2:B:302:PRO:HD2	1.56	1.04
2:F:60:THR:HG22	2:F:61:ASP:H	1.21	1.04
1:K:498:ILE:HG22	1:K:499:GLN:H	1.22	1.04
1:A:135:CYS:HB3	1:A:164:VAL:HG13	1.36	1.04
1:K:562:ARG:HB3	1:K:566:TYR:HE1	1.22	1.04
3:R:11:LEU:H	3:R:11:LEU:HD12	1.16	1.04
1:A:172:MET:H	1:A:172:MET:HE3	1.22	1.04
1:C:422:ILE:O	1:C:425:VAL:HG12	1.56	1.04
1:A:468:SER:O	1:A:469:GLN:HB2	1.58	1.04
2:J:298:PRO:O	2:J:302:PRO:HD2	1.56	1.04
1:E:422:ILE:O	1:E:425:VAL:HG12	1.56	1.04
2:F:450:TRP:HB2	2:F:483:GLN:HG2	1.37	1.04
2:J:347:SER:N	2:J:350:ASN:HD22	1.55	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:450:TRP:HB2	2:B:483:GLN:HG2	1.37	1.03
1:G:390:ASP:HA	1:G:428:THR:HG21	1.34	1.03
1:A:498:ILE:HG22	1:A:499:GLN:H	1.22	1.03
2:B:347:SER:N	2:B:350:ASN:HD22	1.55	1.03
1:C:172:MET:HE3	1:C:172:MET:H	1.22	1.03
2:D:60:THR:HG22	2:D:61:ASP:H	1.21	1.03
2:H:298:PRO:O	2:H:302:PRO:HD2	1.56	1.03
1:K:422:ILE:O	1:K:425:VAL:HG12	1.56	1.03
2:B:162:LEU:HA	2:B:165:LEU:HD12	1.32	1.03
2:D:387:SER:HA	2:D:390:ARG:HD2	1.38	1.03
1:E:138:LEU:H	1:E:138:LEU:HD22	1.23	1.03
1:E:468:SER:O	1:E:469:GLN:HB2	1.58	1.03
1:G:562:ARG:HB3	1:G:566:TYR:HE1	1.22	1.03
1:I:498:ILE:HG22	1:I:499:GLN:H	1.22	1.03
1:G:498:ILE:HG22	1:G:499:GLN:H	1.22	1.02
1:A:438:VAL:HB	1:A:439:PRO:HD3	1.41	1.02
1:A:562:ARG:HE	2:B:522:ARG:HD2	1.23	1.02
2:B:387:SER:HA	2:B:390:ARG:HD2	1.38	1.02
1:C:468:SER:O	1:C:469:GLN:HB2	1.58	1.02
1:E:438:VAL:HB	1:E:439:PRO:HD3	1.41	1.02
2:F:387:SER:HA	2:F:390:ARG:HD2	1.38	1.02
1:I:562:ARG:HB3	1:I:566:TYR:HE1	1.22	1.02
1:A:562:ARG:HB3	1:A:566:TYR:HE1	1.22	1.02
2:B:255:VAL:HG23	2:B:256:VAL:H	1.25	1.02
2:D:347:SER:N	2:D:350:ASN:HD22	1.55	1.02
2:B:60:THR:HG22	2:B:61:ASP:H	1.21	1.02
1:K:138:LEU:HD22	1:K:138:LEU:H	1.23	1.02
1:K:438:VAL:HB	1:K:439:PRO:HD3	1.41	1.02
2:H:255:VAL:HG23	2:H:256:VAL:H	1.25	1.01
2:L:347:SER:N	2:L:350:ASN:HD22	1.55	1.01
2:H:347:SER:N	2:H:350:ASN:HD22	1.55	1.01
1:I:468:SER:O	1:I:469:GLN:HB2	1.58	1.01
3:P:106:ASN:HB3	3:P:109:ILE:HD11	1.37	1.01
1:E:172:MET:H	1:E:172:MET:HE3	1.22	1.01
1:G:172:MET:HE3	1:G:172:MET:H	1.22	1.01
1:E:498:ILE:HG22	1:E:499:GLN:H	1.22	1.01
1:I:138:LEU:H	1:I:138:LEU:HD22	1.23	1.01
1:C:562:ARG:HB3	1:C:566:TYR:HE1	1.22	1.01
1:G:438:VAL:HB	1:G:439:PRO:HD3	1.41	1.01
2:J:60:THR:HG22	2:J:61:ASP:H	1.21	1.01
1:A:138:LEU:H	1:A:138:LEU:HD22	1.23	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:450:TRP:HB2	2:D:483:GLN:HG2	1.37	1.00
4:U:76:ASN:C	4:U:76:ASN:HD22	1.69	1.00
2:H:494:LYS:C	2:H:496:PRO:HD3	1.86	1.00
1:E:562:ARG:HB3	1:E:566:TYR:HE1	1.22	1.00
1:K:172:MET:HE3	1:K:172:MET:H	1.22	1.00
2:L:60:THR:HG22	2:L:61:ASP:H	1.21	1.00
2:B:190:SER:O	2:B:192:PRO:HD2	1.61	1.00
2:D:494:LYS:C	2:D:496:PRO:HD3	1.86	1.00
2:F:569:THR:HG23	3:O:74:ASN:OD1	1.61	1.00
1:I:562:ARG:HE	2:J:522:ARG:HD2	1.23	1.00
2:F:494:LYS:C	2:F:496:PRO:HD3	1.86	1.00
1:G:562:ARG:HE	2:H:522:ARG:HD2	1.23	1.00
2:L:494:LYS:C	2:L:496:PRO:HD3	1.86	1.00
1:K:468:SER:O	1:K:469:GLN:HB2	1.58	1.00
2:B:569:THR:HG23	3:M:74:ASN:OD1	1.61	1.00
2:F:190:SER:O	2:F:192:PRO:HD2	1.61	1.00
2:H:496:PRO:HB2	2:H:499:THR:HG23	1.43	0.99
2:J:387:SER:HA	2:J:390:ARG:HD2	1.38	0.99
2:L:496:PRO:HB2	2:L:499:THR:HG23	1.44	0.99
2:B:494:LYS:C	2:B:496:PRO:HD3	1.86	0.99
1:C:438:VAL:HB	1:C:439:PRO:HD3	1.41	0.99
2:H:190:SER:O	2:H:192:PRO:HD2	1.61	0.99
3:M:11:LEU:HD12	3:M:11:LEU:N	1.77	0.99
2:L:190:SER:O	2:L:192:PRO:HD2	1.61	0.99
2:D:190:SER:O	2:D:192:PRO:HD2	1.61	0.99
1:I:438:VAL:HB	1:I:439:PRO:HD3	1.41	0.99
1:C:138:LEU:HD22	1:C:138:LEU:H	1.23	0.99
2:F:285:ALA:HB3	2:F:286:PRO:HD3	1.45	0.99
4:W:76:ASN:C	4:W:76:ASN:HD22	1.70	0.99
2:D:285:ALA:HB3	2:D:286:PRO:HD3	1.45	0.99
2:L:299:GLN:O	2:L:302:PRO:HG2	1.63	0.99
1:G:468:SER:O	1:G:469:GLN:HB2	1.58	0.99
1:K:562:ARG:HE	2:L:522:ARG:HD2	1.23	0.99
2:L:255:VAL:HG23	2:L:256:VAL:H	1.25	0.99
2:H:569:THR:HG23	3:P:74:ASN:OD1	1.61	0.99
1:C:498:ILE:HG22	1:C:499:GLN:H	1.22	0.98
1:C:562:ARG:HE	2:D:522:ARG:HD2	1.23	0.98
2:F:255:VAL:HG23	2:F:256:VAL:H	1.25	0.98
1:G:138:LEU:HD22	1:G:138:LEU:H	1.23	0.98
1:E:562:ARG:HE	2:F:522:ARG:HD2	1.23	0.98
2:D:569:THR:HG23	3:N:74:ASN:OD1	1.61	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:190:SER:O	2:J:192:PRO:HD2	1.61	0.98
2:J:496:PRO:HB2	2:J:499:THR:HG23	1.43	0.98
2:F:35:LYS:HA	2:F:38:ILE:HD11	1.45	0.98
2:F:496:PRO:HB2	2:F:499:THR:HG23	1.43	0.98
4:X:127:SER:HB3	4:X:130:SER:HB2	1.46	0.98
2:D:35:LYS:HA	2:D:38:ILE:HD11	1.45	0.98
2:F:299:GLN:O	2:F:302:PRO:HG2	1.63	0.98
2:J:494:LYS:C	2:J:496:PRO:HD3	1.86	0.98
2:D:299:GLN:O	2:D:302:PRO:HG2	1.63	0.98
2:J:569:THR:HG23	3:R:74:ASN:OD1	1.61	0.98
4:W:127:SER:HB3	4:W:130:SER:HB2	1.45	0.98
2:D:496:PRO:HB2	2:D:499:THR:HG23	1.43	0.98
4:Q:127:SER:HB3	4:Q:130:SER:HB2	1.46	0.98
2:B:35:LYS:HA	2:B:38:ILE:HD11	1.45	0.98
2:B:299:GLN:O	2:B:302:PRO:HG2	1.63	0.98
2:D:255:VAL:HG23	2:D:256:VAL:H	1.25	0.98
2:J:255:VAL:HG23	2:J:256:VAL:H	1.25	0.98
2:J:299:GLN:O	2:J:302:PRO:HG2	1.63	0.98
3:P:312:ILE:HA	3:P:378:VAL:HG12	1.46	0.98
4:U:48:SER:HA	4:U:59:TYR:HE2	1.28	0.98
4:T:48:SER:HA	4:T:59:TYR:HE2	1.28	0.98
4:X:76:ASN:HD22	4:X:76:ASN:C	1.69	0.98
2:D:566:TYR:O	2:D:569:THR:HB	1.65	0.97
3:O:11:LEU:HD12	3:O:11:LEU:N	1.77	0.97
2:L:569:THR:HG23	3:V:74:ASN:OD1	1.61	0.97
4:W:48:SER:HA	4:W:59:TYR:HE2	1.27	0.97
3:N:11:LEU:HD12	3:N:11:LEU:N	1.77	0.97
3:R:312:ILE:HA	3:R:378:VAL:HG12	1.46	0.97
4:Q:76:ASN:C	4:Q:76:ASN:HD22	1.69	0.97
3:R:11:LEU:HD12	3:R:11:LEU:N	1.77	0.97
2:B:285:ALA:HB3	2:B:286:PRO:HD3	1.45	0.97
1:E:71:LEU:HA	1:E:74:ILE:HD13	1.46	0.97
1:G:71:LEU:HA	1:G:74:ILE:HD13	1.46	0.97
1:K:71:LEU:HA	1:K:74:ILE:HD13	1.46	0.97
2:L:566:TYR:O	2:L:569:THR:HB	1.65	0.97
3:O:312:ILE:HA	3:O:378:VAL:HG12	1.46	0.97
4:S:76:ASN:C	4:S:76:ASN:HD22	1.69	0.97
3:V:312:ILE:HA	3:V:378:VAL:HG12	1.46	0.97
4:X:48:SER:HA	4:X:59:TYR:HE2	1.28	0.97
2:B:496:PRO:HB2	2:B:499:THR:HG23	1.43	0.97
2:H:285:ALA:HB3	2:H:286:PRO:HD3	1.45	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:566:TYR:O	2:J:569:THR:HB	1.65	0.97
4:T:76:ASN:HD22	4:T:76:ASN:C	1.69	0.97
4:T:127:SER:HB3	4:T:130:SER:HB2	1.45	0.96
3:P:11:LEU:HD12	3:P:11:LEU:N	1.77	0.96
4:S:48:SER:HA	4:S:59:TYR:HE2	1.28	0.96
2:B:566:TYR:O	2:B:569:THR:HB	1.65	0.96
2:L:285:ALA:HB3	2:L:286:PRO:HD3	1.45	0.96
3:M:312:ILE:HA	3:M:378:VAL:HG12	1.46	0.96
4:U:127:SER:HB3	4:U:130:SER:HB2	1.46	0.96
4:S:127:SER:HB3	4:S:130:SER:HB2	1.46	0.96
3:N:278:TRP:HD1	3:N:279:ILE:H	1.14	0.96
2:F:566:TYR:O	2:F:569:THR:HB	1.65	0.96
1:C:71:LEU:HA	1:C:74:ILE:HD13	1.46	0.96
2:H:154:GLN:HB3	2:H:158:ASP:OD2	1.65	0.96
2:H:299:GLN:O	2:H:302:PRO:HG2	1.63	0.96
3:M:278:TRP:HD1	3:M:279:ILE:H	1.14	0.96
1:E:68:LEU:HG	1:E:69:GLU:H	1.30	0.96
3:R:278:TRP:CD1	3:R:279:ILE:H	1.84	0.96
2:H:35:LYS:HA	2:H:38:ILE:HD11	1.45	0.96
2:L:86:MET:HE2	3:P:237:LYS:HD3	1.48	0.96
2:F:347:SER:H	2:F:350:ASN:HD22	1.11	0.95
2:F:154:GLN:HB3	2:F:158:ASP:OD2	1.65	0.95
2:H:566:TYR:O	2:H:569:THR:HB	1.65	0.95
3:M:278:TRP:CD1	3:M:279:ILE:H	1.84	0.95
3:V:11:LEU:HD12	3:V:11:LEU:N	1.77	0.95
3:V:278:TRP:CD1	3:V:279:ILE:H	1.84	0.95
2:D:154:GLN:HB3	2:D:158:ASP:OD2	1.65	0.95
1:A:71:LEU:HA	1:A:74:ILE:HD13	1.46	0.95
3:N:278:TRP:CD1	3:N:279:ILE:H	1.84	0.95
3:O:314:ILE:HB	3:O:341:ILE:HG23	1.49	0.95
3:P:278:TRP:HD1	3:P:279:ILE:H	1.14	0.95
2:H:86:MET:HE2	3:R:237:LYS:HB3	1.48	0.95
2:J:154:GLN:HB3	2:J:158:ASP:OD2	1.65	0.95
2:J:285:ALA:HB3	2:J:286:PRO:HD3	1.45	0.95
2:L:323:VAL:HG23	2:L:324:PHE:HD1	1.32	0.95
2:B:154:GLN:HB3	2:B:158:ASP:OD2	1.65	0.95
2:B:323:VAL:HG23	2:B:324:PHE:HD1	1.32	0.95
4:Q:48:SER:HA	4:Q:59:TYR:HE2	1.28	0.95
2:F:288:LEU:O	2:F:291:LEU:HB3	1.67	0.95
1:I:68:LEU:HG	1:I:69:GLU:H	1.30	0.95
3:O:278:TRP:CD1	3:O:279:ILE:H	1.84	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:P:278:TRP:CD1	3:P:279:ILE:H	1.84	0.95
2:B:216:GLU:HB2	2:B:217:TRP:CE3	2.02	0.94
2:F:216:GLU:HB2	2:F:217:TRP:CE3	2.02	0.94
2:D:288:LEU:O	2:D:291:LEU:HB3	1.67	0.94
2:F:295:GLU:O	2:F:298:PRO:HD2	1.68	0.94
3:V:314:ILE:HB	3:V:341:ILE:HG23	1.49	0.94
2:H:288:LEU:O	2:H:291:LEU:HB3	1.67	0.94
3:O:278:TRP:HD1	3:O:279:ILE:H	1.14	0.94
2:B:288:LEU:O	2:B:291:LEU:HB3	1.67	0.94
1:G:68:LEU:HG	1:G:69:GLU:H	1.30	0.94
2:J:478:THR:HA	2:J:481:GLN:HE21	1.33	0.94
2:F:297:GLU:HB3	3:O:81:PHE:CE2	2.02	0.94
2:J:216:GLU:HB2	2:J:217:TRP:CE3	2.02	0.94
2:L:297:GLU:HB3	3:V:81:PHE:CE2	2.02	0.94
2:L:478:THR:HA	2:L:481:GLN:HE21	1.33	0.94
2:L:154:GLN:HB3	2:L:158:ASP:OD2	1.65	0.94
1:A:172:MET:HE3	1:A:172:MET:N	1.83	0.94
1:A:532:LYS:HB3	1:A:536:ARG:NH1	1.83	0.94
2:B:297:GLU:HB3	3:M:81:PHE:CE2	2.02	0.94
1:C:172:MET:HE3	1:C:172:MET:N	1.83	0.94
2:D:216:GLU:HB2	2:D:217:TRP:CE3	2.02	0.94
2:D:297:GLU:HB3	3:N:81:PHE:CE2	2.02	0.94
2:F:115:VAL:O	2:F:118:ILE:HG22	1.68	0.94
2:F:323:VAL:HG23	2:F:324:PHE:HD1	1.32	0.94
2:H:115:VAL:O	2:H:118:ILE:HG22	1.68	0.94
2:J:115:VAL:O	2:J:118:ILE:HG22	1.68	0.94
2:L:166:LYS:HA	2:L:169:ILE:HD12	1.50	0.94
2:L:347:SER:H	2:L:350:ASN:HD22	1.11	0.94
3:M:299:SER:HB3	3:M:348:PHE:HE2	1.32	0.94
3:N:314:ILE:HB	3:N:341:ILE:HG23	1.49	0.94
2:H:323:VAL:HG23	2:H:324:PHE:HD1	1.32	0.94
2:J:141:ALA:HA	2:J:144:CYS:SG	2.08	0.94
2:L:115:VAL:O	2:L:118:ILE:HG22	1.68	0.94
3:O:19:ARG:HD3	3:O:20:ASN:H	1.33	0.94
2:D:295:GLU:O	2:D:298:PRO:HD2	1.68	0.94
1:G:172:MET:HE3	1:G:172:MET:N	1.83	0.94
2:H:141:ALA:HA	2:H:144:CYS:SG	2.08	0.94
1:K:68:LEU:HG	1:K:69:GLU:H	1.30	0.94
2:L:35:LYS:HA	2:L:38:ILE:HD11	1.45	0.94
2:F:478:THR:HA	2:F:481:GLN:HE21	1.33	0.93
2:J:35:LYS:HA	2:J:38:ILE:HD11	1.45	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:323:VAL:HG23	2:J:324:PHE:HD1	1.32	0.93
1:K:532:LYS:HB3	1:K:536:ARG:NH1	1.83	0.93
3:N:19:ARG:HD3	3:N:20:ASN:H	1.33	0.93
2:D:141:ALA:HA	2:D:144:CYS:SG	2.08	0.93
2:H:295:GLU:O	2:H:298:PRO:HD2	1.68	0.93
2:L:216:GLU:HB2	2:L:217:TRP:CE3	2.02	0.93
2:B:115:VAL:O	2:B:118:ILE:HG22	1.68	0.93
2:D:115:VAL:O	2:D:118:ILE:HG22	1.68	0.93
1:E:172:MET:HE3	1:E:172:MET:N	1.83	0.93
1:I:71:LEU:HA	1:I:74:ILE:HD13	1.46	0.93
2:J:297:GLU:HB3	3:R:81:PHE:CE2	2.02	0.93
2:L:288:LEU:O	2:L:291:LEU:HB3	1.67	0.93
3:N:312:ILE:HA	3:N:378:VAL:HG12	1.46	0.93
2:B:347:SER:H	2:B:350:ASN:HD22	1.11	0.93
3:O:98:LEU:HD22	3:O:98:LEU:N	1.84	0.93
3:R:299:SER:HB3	3:R:348:PHE:HE2	1.32	0.93
2:B:141:ALA:HA	2:B:144:CYS:SG	2.08	0.93
1:C:68:LEU:HG	1:C:69:GLU:H	1.31	0.93
2:J:295:GLU:O	2:J:298:PRO:HD2	1.68	0.93
3:M:98:LEU:HD22	3:M:98:LEU:N	1.84	0.93
2:H:297:GLU:HB3	3:P:81:PHE:CE2	2.03	0.93
3:R:19:ARG:HD3	3:R:20:ASN:H	1.33	0.93
2:D:491:LEU:HD12	2:D:492:PHE:N	1.84	0.93
2:F:141:ALA:HA	2:F:144:CYS:SG	2.08	0.93
2:H:216:GLU:HB2	2:H:217:TRP:CE3	2.02	0.93
2:B:166:LYS:HA	2:B:169:ILE:HD12	1.50	0.93
2:D:323:VAL:HG23	2:D:324:PHE:HD1	1.32	0.93
1:I:532:LYS:HB3	1:I:536:ARG:NH1	1.83	0.93
2:L:141:ALA:HA	2:L:144:CYS:SG	2.08	0.93
3:P:299:SER:HB3	3:P:348:PHE:HE2	1.32	0.93
2:H:331:PRO:HD2	2:H:334:VAL:HG21	1.51	0.93
2:J:491:LEU:HD12	2:J:492:PHE:N	1.84	0.93
3:P:314:ILE:HB	3:P:341:ILE:HG23	1.49	0.93
3:R:171:VAL:HG13	3:R:202:VAL:HG22	1.51	0.93
3:V:171:VAL:HG13	3:V:202:VAL:HG22	1.51	0.93
2:B:295:GLU:O	2:B:298:PRO:HD2	1.68	0.92
2:H:478:THR:HA	2:H:481:GLN:HE21	1.33	0.92
3:R:314:ILE:HB	3:R:341:ILE:HG23	1.49	0.92
2:D:331:PRO:HD2	2:D:334:VAL:HG21	1.51	0.92
2:F:166:LYS:HA	2:F:169:ILE:HD12	1.50	0.92
2:B:488:ILE:HG21	2:B:506:VAL:HG21	1.50	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:478:THR:HA	2:D:481:GLN:HE21	1.33	0.92
2:J:288:LEU:O	2:J:291:LEU:HB3	1.67	0.92
3:R:278:TRP:HD1	3:R:279:ILE:H	1.14	0.92
3:V:19:ARG:HD3	3:V:20:ASN:H	1.33	0.92
2:F:488:ILE:HG21	2:F:506:VAL:HG21	1.50	0.92
3:M:19:ARG:HD3	3:M:20:ASN:H	1.33	0.92
3:N:98:LEU:HD22	3:N:98:LEU:N	1.84	0.92
2:B:331:PRO:HD2	2:B:334:VAL:HG21	1.51	0.92
2:D:347:SER:H	2:D:350:ASN:HD22	1.11	0.92
2:F:331:PRO:HD2	2:F:334:VAL:HG21	1.51	0.92
2:H:488:ILE:HG21	2:H:506:VAL:HG21	1.50	0.92
2:J:331:PRO:HD2	2:J:334:VAL:HG21	1.51	0.92
2:L:491:LEU:HD12	2:L:492:PHE:N	1.84	0.92
1:G:562:ARG:HB3	1:G:566:TYR:CE1	2.05	0.92
2:J:570:LEU:O	2:J:573:VAL:HG12	1.70	0.92
3:N:98:LEU:H	3:N:98:LEU:CD2	1.83	0.92
1:C:532:LYS:HB3	1:C:536:ARG:NH1	1.83	0.92
1:G:532:LYS:HB3	1:G:536:ARG:NH1	1.83	0.92
3:M:314:ILE:HB	3:M:341:ILE:HG23	1.49	0.92
3:N:171:VAL:HG13	3:N:202:VAL:HG22	1.51	0.92
3:M:98:LEU:H	3:M:98:LEU:CD2	1.83	0.92
1:C:562:ARG:HB3	1:C:566:TYR:CE1	2.04	0.92
2:H:166:LYS:HA	2:H:169:ILE:HD12	1.50	0.92
2:L:570:LEU:O	2:L:573:VAL:HG12	1.70	0.92
3:O:299:SER:HB3	3:O:348:PHE:HE2	1.32	0.92
1:A:68:LEU:HG	1:A:69:GLU:H	1.31	0.91
2:B:491:LEU:HD12	2:B:492:PHE:N	1.84	0.91
1:E:562:ARG:HB3	1:E:566:TYR:CE1	2.05	0.91
1:K:172:MET:HE3	1:K:172:MET:N	1.83	0.91
2:B:570:LEU:O	2:B:573:VAL:HG12	1.70	0.91
2:D:166:LYS:HA	2:D:169:ILE:HD12	1.50	0.91
1:I:172:MET:HE3	1:I:172:MET:N	1.83	0.91
2:L:295:GLU:O	2:L:298:PRO:HD2	1.68	0.91
3:P:98:LEU:H	3:P:98:LEU:CD2	1.83	0.91
1:A:562:ARG:HB3	1:A:566:TYR:CE1	2.04	0.91
2:D:488:ILE:HG21	2:D:506:VAL:HG21	1.50	0.91
1:E:532:LYS:HB3	1:E:536:ARG:NH1	1.83	0.91
2:F:491:LEU:HD12	2:F:492:PHE:N	1.84	0.91
2:F:570:LEU:O	2:F:573:VAL:HG12	1.70	0.91
1:G:13:THR:HG22	1:G:26:MET:HE3	1.52	0.91
2:H:570:LEU:O	2:H:573:VAL:HG12	1.70	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:331:PRO:HD2	2:L:334:VAL:HG21	1.51	0.91
4:S:132:LEU:O	4:S:135:ILE:HG22	1.70	0.91
3:V:278:TRP:HD1	3:V:279:ILE:H	1.14	0.91
3:P:19:ARG:HD3	3:P:20:ASN:H	1.33	0.91
1:E:13:THR:HG22	1:E:26:MET:HE3	1.52	0.91
3:P:306:THR:HG22	3:P:349:PRO:HA	1.52	0.91
1:A:13:THR:HG22	1:A:26:MET:HE3	1.52	0.91
1:A:358:ASP:HB3	1:A:361:ILE:HD12	1.53	0.91
1:A:532:LYS:HA	1:A:581:LEU:HD13	1.53	0.91
1:G:532:LYS:HA	1:G:581:LEU:HD13	1.53	0.91
1:I:532:LYS:HA	1:I:581:LEU:HD13	1.53	0.91
2:J:488:ILE:HG21	2:J:506:VAL:HG21	1.50	0.91
2:L:488:ILE:HG21	2:L:506:VAL:HG21	1.50	0.91
4:T:132:LEU:O	4:T:135:ILE:HG22	1.70	0.91
4:W:132:LEU:O	4:W:135:ILE:HG22	1.70	0.91
1:C:358:ASP:HB3	1:C:361:ILE:HD12	1.53	0.91
3:N:299:SER:HB3	3:N:348:PHE:HE2	1.32	0.91
3:V:98:LEU:HD22	3:V:98:LEU:N	1.84	0.91
3:O:19:ARG:HD3	3:O:20:ASN:N	1.86	0.91
4:Q:132:LEU:O	4:Q:135:ILE:HG22	1.70	0.91
3:R:98:LEU:HD22	3:R:98:LEU:N	1.84	0.91
2:D:570:LEU:O	2:D:573:VAL:HG12	1.70	0.91
2:H:491:LEU:HD12	2:H:492:PHE:N	1.84	0.91
1:I:562:ARG:HB3	1:I:566:TYR:CE1	2.04	0.91
2:J:166:LYS:HA	2:J:169:ILE:HD12	1.50	0.91
1:K:492:CYS:HB3	1:K:497:PRO:HG3	1.53	0.91
3:V:299:SER:HB3	3:V:348:PHE:HE2	1.32	0.91
2:B:191:HIS:HA	2:B:195:ASN:ND2	1.86	0.91
2:D:191:HIS:HA	2:D:195:ASN:ND2	1.86	0.91
2:F:191:HIS:HA	2:F:195:ASN:ND2	1.86	0.91
3:M:171:VAL:HG13	3:M:202:VAL:HG22	1.51	0.91
1:E:358:ASP:HB3	1:E:361:ILE:HD12	1.53	0.90
2:J:191:HIS:HA	2:J:195:ASN:ND2	1.86	0.90
3:M:19:ARG:HD3	3:M:20:ASN:N	1.86	0.90
3:V:19:ARG:HD3	3:V:20:ASN:N	1.86	0.90
1:C:67:GLN:HE21	1:C:93:LEU:HD23	1.37	0.90
1:G:488:VAL:CA	1:G:500:VAL:HG11	2.02	0.90
1:K:13:THR:HG22	1:K:26:MET:HE3	1.52	0.90
4:X:132:LEU:O	4:X:135:ILE:HG22	1.70	0.90
2:L:297:GLU:HB3	3:V:81:PHE:HE2	1.36	0.90
3:N:19:ARG:HD3	3:N:20:ASN:N	1.86	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:306:THR:HG22	3:N:349:PRO:HA	1.52	0.90
3:P:98:LEU:HD22	3:P:98:LEU:N	1.84	0.90
3:V:98:LEU:H	3:V:98:LEU:CD2	1.83	0.90
1:C:13:THR:HG22	1:C:26:MET:HE3	1.52	0.90
1:K:562:ARG:HB3	1:K:566:TYR:CE1	2.04	0.90
3:P:171:VAL:HG13	3:P:202:VAL:HG22	1.52	0.90
2:L:164:THR:HG22	2:L:168:LEU:HD11	1.54	0.90
4:U:132:LEU:O	4:U:135:ILE:HG22	1.71	0.90
1:G:67:GLN:HE21	1:G:93:LEU:HD23	1.37	0.90
1:G:492:CYS:HB3	1:G:497:PRO:HG3	1.52	0.90
2:H:432:LEU:HD12	2:H:448:MET:HE1	1.54	0.90
2:L:191:HIS:HA	2:L:195:ASN:ND2	1.86	0.90
1:C:532:LYS:HA	1:C:581:LEU:HD13	1.53	0.90
1:I:488:VAL:CA	1:I:500:VAL:HG11	2.02	0.90
3:R:98:LEU:H	3:R:98:LEU:CD2	1.83	0.90
1:A:488:VAL:CA	1:A:500:VAL:HG11	2.02	0.89
2:B:478:THR:HA	2:B:481:GLN:HE21	1.33	0.89
1:E:67:GLN:O	1:E:70:CYS:HB3	1.72	0.89
1:E:488:VAL:CA	1:E:500:VAL:HG11	2.02	0.89
2:B:522:ARG:O	2:B:526:TYR:HD1	1.55	0.89
1:I:67:GLN:HE21	1:I:93:LEU:HD23	1.37	0.89
1:K:358:ASP:HB3	1:K:361:ILE:HD12	1.53	0.89
2:F:522:ARG:O	2:F:526:TYR:HD1	1.55	0.89
3:P:19:ARG:HD3	3:P:20:ASN:N	1.86	0.89
1:C:274:VAL:HG11	1:C:292:THR:HG21	1.54	0.89
1:E:532:LYS:HA	1:E:581:LEU:HD13	1.53	0.89
2:F:88:VAL:HG11	2:F:121:TYR:CD2	2.08	0.89
2:H:191:HIS:HA	2:H:195:ASN:ND2	1.86	0.89
2:B:164:THR:HG22	2:B:168:LEU:HD11	1.54	0.89
1:E:67:GLN:HE21	1:E:93:LEU:HD23	1.37	0.89
1:G:230:GLY:HA3	2:J:461:ASN:ND2	1.88	0.89
2:H:88:VAL:HG11	2:H:121:TYR:CD2	2.08	0.89
1:I:67:GLN:O	1:I:70:CYS:HB3	1.72	0.89
2:J:347:SER:H	2:J:350:ASN:HD22	1.11	0.89
1:K:67:GLN:HE21	1:K:93:LEU:HD23	1.37	0.89
1:A:67:GLN:HE21	1:A:93:LEU:HD23	1.37	0.89
2:B:297:GLU:HB3	3:M:81:PHE:HE2	1.36	0.89
1:G:274:VAL:HG11	1:G:292:THR:HG21	1.54	0.89
1:I:492:CYS:HB3	1:I:497:PRO:HG3	1.52	0.89
1:K:274:VAL:HG11	1:K:292:THR:HG21	1.54	0.89
3:M:306:THR:HG22	3:M:349:PRO:HA	1.52	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:T:16:LEU:HD12	4:T:17:GLN:N	1.88	0.89
4:W:16:LEU:HD12	4:W:17:GLN:N	1.88	0.89
3:O:171:VAL:HG13	3:O:202:VAL:HG22	1.51	0.89
4:Q:16:LEU:HD12	4:Q:17:GLN:N	1.88	0.89
1:A:67:GLN:O	1:A:70:CYS:HB3	1.72	0.89
3:O:306:THR:HG22	3:O:349:PRO:HA	1.52	0.89
3:R:19:ARG:HD3	3:R:20:ASN:N	1.86	0.89
1:C:67:GLN:O	1:C:70:CYS:HB3	1.72	0.88
1:C:492:CYS:HB3	1:C:497:PRO:HG3	1.53	0.88
2:D:88:VAL:HG11	2:D:121:TYR:CD2	2.08	0.88
2:D:449:ILE:O	2:D:452:VAL:HG12	1.73	0.88
2:D:522:ARG:O	2:D:526:TYR:HD1	1.55	0.88
2:J:432:LEU:HD12	2:J:448:MET:HE1	1.54	0.88
2:J:449:ILE:O	2:J:452:VAL:HG12	1.73	0.88
3:R:306:THR:HG22	3:R:349:PRO:HA	1.52	0.88
1:K:67:GLN:O	1:K:70:CYS:HB3	1.72	0.88
1:K:488:VAL:CA	1:K:500:VAL:HG11	2.02	0.88
2:H:522:ARG:O	2:H:526:TYR:HD1	1.55	0.88
2:J:88:VAL:HG11	2:J:121:TYR:CD2	2.08	0.88
4:S:16:LEU:HD12	4:S:17:GLN:N	1.88	0.88
2:B:449:ILE:O	2:B:452:VAL:HG12	1.73	0.88
1:G:470:GLN:O	1:G:473:VAL:HG22	1.74	0.88
2:L:88:VAL:HG11	2:L:121:TYR:CD2	2.08	0.88
2:L:522:ARG:O	2:L:526:TYR:HD1	1.55	0.88
1:A:74:ILE:HG23	1:A:86:TYR:HE1	1.39	0.88
2:B:88:VAL:HG11	2:B:121:TYR:CD2	2.08	0.88
2:B:432:LEU:HD12	2:B:448:MET:HE1	1.54	0.88
2:D:432:LEU:HD12	2:D:448:MET:HE1	1.54	0.88
1:E:74:ILE:HG23	1:E:86:TYR:HE1	1.39	0.88
2:H:347:SER:H	2:H:350:ASN:HD22	1.11	0.88
2:J:164:THR:HG22	2:J:168:LEU:HD11	1.54	0.88
1:K:470:GLN:O	1:K:473:VAL:HG22	1.73	0.88
1:K:532:LYS:HA	1:K:581:LEU:HD13	1.53	0.88
1:C:74:ILE:HG23	1:C:86:TYR:HE1	1.39	0.88
1:C:488:VAL:CA	1:C:500:VAL:HG11	2.02	0.88
1:G:358:ASP:HB3	1:G:361:ILE:HD12	1.53	0.88
1:A:470:GLN:O	1:A:473:VAL:HG22	1.73	0.88
1:G:67:GLN:O	1:G:70:CYS:HB3	1.72	0.88
3:V:306:THR:HG22	3:V:349:PRO:HA	1.52	0.88
3:O:241:CYS:O	3:O:255:PHE:HB2	1.74	0.88
3:R:241:CYS:O	3:R:255:PHE:HB2	1.74	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:U:16:LEU:HD12	4:U:17:GLN:N	1.88	0.88
2:F:449:ILE:O	2:F:452:VAL:HG12	1.73	0.87
2:H:25:ASP:O	2:H:30:LYS:HE2	1.75	0.87
2:L:432:LEU:HD12	2:L:448:MET:HE1	1.54	0.87
2:L:473:PHE:C	2:L:475:ASP:H	1.82	0.87
3:N:241:CYS:O	3:N:255:PHE:HB2	1.74	0.87
4:X:16:LEU:HD12	4:X:17:GLN:N	1.88	0.87
1:I:13:THR:HG22	1:I:26:MET:HE3	1.52	0.87
1:I:358:ASP:HB3	1:I:361:ILE:HD12	1.53	0.87
2:L:449:ILE:O	2:L:452:VAL:HG12	1.73	0.87
3:V:241:CYS:O	3:V:255:PHE:HB2	1.74	0.87
1:A:492:CYS:HB3	1:A:497:PRO:HG3	1.53	0.87
2:H:297:GLU:HB3	3:P:81:PHE:HE2	1.36	0.87
1:I:470:GLN:O	1:I:473:VAL:HG22	1.73	0.87
1:E:274:VAL:HG11	1:E:292:THR:HG21	1.54	0.87
2:F:432:LEU:HD12	2:F:448:MET:HE1	1.54	0.87
2:L:25:ASP:O	2:L:30:LYS:HE2	1.75	0.87
3:O:181:LEU:O	3:O:182:LEU:HD23	1.75	0.87
2:D:25:ASP:O	2:D:30:LYS:HE2	1.75	0.87
3:M:181:LEU:O	3:M:182:LEU:HD23	1.75	0.87
1:C:470:GLN:O	1:C:473:VAL:HG22	1.73	0.87
1:E:492:CYS:HB3	1:E:497:PRO:HG3	1.53	0.87
2:J:522:ARG:O	2:J:526:TYR:HD1	1.55	0.87
2:F:164:THR:HG22	2:F:168:LEU:HD11	1.54	0.87
2:H:473:PHE:C	2:H:475:ASP:H	1.82	0.87
1:E:100:HIS:CE1	1:E:134:MET:HB2	2.10	0.87
1:I:14:ILE:H	1:I:14:ILE:HD12	1.40	0.87
1:K:529:ALA:HA	1:K:532:LYS:HG3	1.56	0.87
2:L:166:LYS:O	2:L:169:ILE:HB	1.75	0.87
2:D:164:THR:HG22	2:D:168:LEU:HD11	1.54	0.86
2:J:25:ASP:O	2:J:30:LYS:HE2	1.75	0.86
3:O:98:LEU:H	3:O:98:LEU:CD2	1.83	0.86
3:V:327:THR:HG22	3:V:329:VAL:H	1.40	0.86
1:E:470:GLN:O	1:E:473:VAL:HG22	1.73	0.86
2:J:38:ILE:O	2:J:41:MET:HB3	1.76	0.86
2:B:166:LYS:O	2:B:169:ILE:HB	1.75	0.86
1:C:100:HIS:CE1	1:C:134:MET:HB2	2.10	0.86
2:F:38:ILE:O	2:F:41:MET:HB3	1.76	0.86
1:G:100:HIS:CE1	1:G:134:MET:HB2	2.10	0.86
1:I:274:VAL:HG11	1:I:292:THR:HG21	1.54	0.86
1:C:529:ALA:HA	1:C:532:LYS:HG3	1.56	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:M:241:CYS:O	3:M:255:PHE:HB2	1.74	0.86
3:P:241:CYS:O	3:P:255:PHE:HB2	1.74	0.86
3:R:168:LYS:HE3	3:R:170:GLU:OE1	1.75	0.86
1:A:274:VAL:HG11	1:A:292:THR:HG21	1.54	0.86
1:E:529:ALA:HA	1:E:532:LYS:HG3	1.56	0.86
1:G:74:ILE:HG23	1:G:86:TYR:HE1	1.39	0.86
1:K:6:ARG:HD3	3:P:337:GLU:HG2	1.56	0.86
3:N:181:LEU:O	3:N:182:LEU:HD23	1.75	0.86
1:A:58:MET:HE1	4:S:15:ARG:C	2.01	0.86
1:C:14:ILE:H	1:C:14:ILE:HD12	1.40	0.86
1:I:488:VAL:HA	1:I:500:VAL:CG1	2.06	0.86
1:K:100:HIS:CE1	1:K:134:MET:HB2	2.10	0.86
3:N:327:THR:HG22	3:N:329:VAL:H	1.40	0.86
3:R:181:LEU:O	3:R:182:LEU:HD23	1.75	0.86
1:A:470:GLN:HB2	1:A:471:PRO:HD3	1.58	0.86
2:D:457:GLU:HG3	2:D:458:ARG:H	1.41	0.86
1:G:58:MET:HE1	4:Q:15:ARG:C	2.01	0.86
2:B:25:ASP:O	2:B:30:LYS:HE2	1.75	0.86
1:I:470:GLN:HB2	1:I:471:PRO:HD3	1.58	0.86
1:K:14:ILE:H	1:K:14:ILE:HD12	1.40	0.86
2:L:457:GLU:HG3	2:L:458:ARG:H	1.41	0.86
2:H:38:ILE:O	2:H:41:MET:HB3	1.76	0.86
1:I:100:HIS:CE1	1:I:134:MET:HB2	2.10	0.86
1:K:58:MET:HE1	4:W:15:ARG:C	2.01	0.86
1:K:74:ILE:HG23	1:K:86:TYR:HE1	1.39	0.86
3:M:327:THR:HG22	3:M:329:VAL:H	1.40	0.86
3:V:168:LYS:HE3	3:V:170:GLU:OE1	1.76	0.86
1:A:100:HIS:CE1	1:A:134:MET:HB2	2.10	0.86
2:J:297:GLU:HB3	3:R:81:PHE:HE2	1.36	0.86
2:H:164:THR:HG22	2:H:168:LEU:HD11	1.54	0.85
1:I:74:ILE:HG23	1:I:86:TYR:HE1	1.39	0.85
1:E:58:MET:HE1	4:U:15:ARG:C	2.01	0.85
2:F:25:ASP:O	2:F:30:LYS:HE2	1.75	0.85
2:F:297:GLU:HB3	3:O:81:PHE:HE2	1.36	0.85
1:G:529:ALA:HA	1:G:532:LYS:HG3	1.56	0.85
3:O:327:THR:HG22	3:O:329:VAL:H	1.40	0.85
3:P:181:LEU:O	3:P:182:LEU:HD23	1.75	0.85
1:A:529:ALA:HA	1:A:532:LYS:HG3	1.56	0.85
2:B:38:ILE:O	2:B:41:MET:HB3	1.76	0.85
1:C:58:MET:HE1	4:T:15:ARG:C	2.01	0.85
2:F:166:LYS:O	2:F:169:ILE:HB	1.75	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:457:GLU:HG3	2:H:458:ARG:H	1.41	0.85
2:D:297:GLU:HB3	3:N:81:PHE:HE2	1.36	0.85
2:J:457:GLU:HG3	2:J:458:ARG:H	1.41	0.85
2:B:473:PHE:C	2:B:475:ASP:H	1.82	0.85
1:G:14:ILE:H	1:G:14:ILE:HD12	1.40	0.85
2:H:449:ILE:O	2:H:452:VAL:HG12	1.73	0.85
1:I:529:ALA:HA	1:I:532:LYS:HG3	1.56	0.85
2:J:166:LYS:O	2:J:169:ILE:HB	1.75	0.85
2:L:38:ILE:O	2:L:41:MET:HB3	1.76	0.85
3:N:8:VAL:O	3:N:16:LEU:HB3	1.76	0.85
3:O:268:ARG:C	3:O:269:LEU:HD23	2.01	0.85
3:P:168:LYS:HE3	3:P:170:GLU:OE1	1.76	0.85
3:V:268:ARG:C	3:V:269:LEU:HD23	2.01	0.85
2:D:38:ILE:O	2:D:41:MET:HB3	1.76	0.85
2:F:473:PHE:C	2:F:475:ASP:H	1.82	0.85
2:H:166:LYS:O	2:H:169:ILE:HB	1.75	0.85
3:N:172:PHE:HB2	3:N:201:ARG:HB3	1.58	0.85
3:R:268:ARG:C	3:R:269:LEU:HD23	2.01	0.85
1:A:14:ILE:H	1:A:14:ILE:HD12	1.40	0.85
3:M:168:LYS:HE3	3:M:170:GLU:OE1	1.76	0.85
3:M:268:ARG:C	3:M:269:LEU:HD23	2.01	0.85
3:N:168:LYS:HE3	3:N:170:GLU:OE1	1.76	0.85
3:O:8:VAL:O	3:O:16:LEU:HB3	1.76	0.85
2:J:473:PHE:C	2:J:475:ASP:H	1.82	0.85
2:D:166:LYS:O	2:D:169:ILE:HB	1.75	0.85
2:D:473:PHE:C	2:D:475:ASP:H	1.82	0.85
3:V:8:VAL:O	3:V:16:LEU:HB3	1.76	0.85
3:V:172:PHE:HB2	3:V:201:ARG:HB3	1.58	0.85
1:A:104:THR:HG23	1:A:138:LEU:HD21	1.59	0.84
1:G:470:GLN:HB2	1:G:471:PRO:HD3	1.58	0.84
1:I:58:MET:HE1	4:X:15:ARG:C	2.01	0.84
2:L:510:ALA:HB1	2:L:519:LEU:HD11	1.59	0.84
3:O:168:LYS:HE3	3:O:170:GLU:OE1	1.76	0.84
3:R:334:TRP:CZ2	3:R:336:PRO:HG3	2.12	0.84
3:V:181:LEU:O	3:V:182:LEU:HD23	1.75	0.84
1:E:35:ARG:HD3	1:E:65:PHE:HE2	1.43	0.84
1:I:115:THR:HG22	1:I:116:GLN:H	1.42	0.84
3:M:8:VAL:O	3:M:16:LEU:HB3	1.76	0.84
3:N:268:ARG:C	3:N:269:LEU:HD23	2.01	0.84
1:E:115:THR:HG22	1:E:116:GLN:H	1.42	0.84
1:I:466:ASP:O	1:I:467:TYR:HD1	1.61	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:334:TRP:CZ2	3:N:336:PRO:HG3	2.12	0.84
1:E:212:PHE:O	1:E:216:VAL:HG23	1.78	0.84
3:O:334:TRP:CZ2	3:O:336:PRO:HG3	2.12	0.84
3:P:8:VAL:O	3:P:16:LEU:HB3	1.76	0.84
3:R:239:HIS:O	3:R:242:VAL:HG23	1.78	0.84
1:A:115:THR:HG22	1:A:116:GLN:H	1.42	0.84
2:D:510:ALA:HB1	2:D:519:LEU:HD11	1.59	0.84
2:F:510:ALA:HB1	2:F:519:LEU:HD11	1.59	0.84
1:G:115:THR:HG22	1:G:116:GLN:H	1.42	0.84
1:K:470:GLN:HB2	1:K:471:PRO:HD3	1.58	0.84
3:N:239:HIS:O	3:N:242:VAL:HG23	1.78	0.84
3:R:8:VAL:O	3:R:16:LEU:HB3	1.76	0.84
1:G:212:PHE:O	1:G:216:VAL:HG23	1.78	0.84
1:K:416:ARG:O	1:K:420:ASP:HB2	1.77	0.84
2:B:494:LYS:O	2:B:496:PRO:HD3	1.78	0.84
2:D:494:LYS:O	2:D:496:PRO:HD3	1.78	0.84
1:E:14:ILE:H	1:E:14:ILE:HD12	1.40	0.84
1:A:212:PHE:O	1:A:216:VAL:HG23	1.78	0.84
1:C:104:THR:HG23	1:C:138:LEU:HD21	1.59	0.84
3:P:172:PHE:HB2	3:P:201:ARG:HB3	1.59	0.84
2:B:457:GLU:HG3	2:B:458:ARG:H	1.41	0.84
2:F:457:GLU:HG3	2:F:458:ARG:H	1.41	0.84
1:I:36:SER:HA	1:I:39:ARG:HG2	1.60	0.84
1:I:416:ARG:O	1:I:420:ASP:HB2	1.77	0.84
3:P:327:THR:HG22	3:P:329:VAL:H	1.40	0.84
3:R:327:THR:HG22	3:R:329:VAL:H	1.40	0.84
4:U:10:ARG:HH11	4:U:61:ARG:HE	1.24	0.84
1:A:416:ARG:O	1:A:420:ASP:HB2	1.77	0.84
2:B:188:ALA:HA	2:B:195:ASN:OD1	1.78	0.84
2:D:110:MET:O	2:D:113:ILE:HD13	1.78	0.84
1:E:466:ASP:O	1:E:467:TYR:HD1	1.61	0.84
1:K:35:ARG:HD3	1:K:65:PHE:CE2	2.13	0.84
1:K:104:THR:HG23	1:K:138:LEU:HD21	1.59	0.84
1:K:115:THR:HG22	1:K:116:GLN:H	1.42	0.84
1:K:488:VAL:HA	1:K:500:VAL:CG1	2.06	0.84
3:M:239:HIS:O	3:M:242:VAL:HG23	1.78	0.84
3:P:334:TRP:CZ2	3:P:336:PRO:HG3	2.12	0.84
1:A:35:ARG:HD3	1:A:65:PHE:CE2	2.13	0.83
1:E:416:ARG:O	1:E:420:ASP:HB2	1.77	0.83
2:F:188:ALA:HA	2:F:195:ASN:OD1	1.78	0.83
1:G:416:ARG:O	1:G:420:ASP:HB2	1.77	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:104:THR:HG23	1:I:138:LEU:HD21	1.59	0.83
3:P:239:HIS:O	3:P:242:VAL:HG23	1.78	0.83
1:A:208:MET:HE3	1:A:212:PHE:CD1	2.13	0.83
2:J:188:ALA:HA	2:J:195:ASN:OD1	1.78	0.83
4:Q:10:ARG:HH11	4:Q:61:ARG:HE	1.24	0.83
1:A:466:ASP:O	1:A:467:TYR:HD1	1.61	0.83
2:D:188:ALA:HA	2:D:195:ASN:OD1	1.78	0.83
1:I:35:ARG:HD3	1:I:65:PHE:CE2	2.13	0.83
2:B:510:ALA:HB1	2:B:519:LEU:HD11	1.59	0.83
1:C:35:ARG:HD3	1:C:65:PHE:HE2	1.42	0.83
1:C:35:ARG:HD3	1:C:65:PHE:CE2	2.13	0.83
1:C:115:THR:HG22	1:C:116:GLN:H	1.43	0.83
1:E:35:ARG:HD3	1:E:65:PHE:CE2	2.13	0.83
1:G:35:ARG:HD3	1:G:65:PHE:HE2	1.43	0.83
1:I:208:MET:HE3	1:I:212:PHE:CD1	2.13	0.83
1:K:208:MET:HE3	1:K:212:PHE:CD1	2.13	0.83
1:K:466:ASP:O	1:K:467:TYR:HD1	1.61	0.83
3:M:334:TRP:CZ2	3:M:336:PRO:HG3	2.12	0.83
3:O:21:TYR:CZ	3:O:118:MET:HE3	2.14	0.83
2:B:317:LEU:HD22	2:B:317:LEU:H	1.44	0.83
1:C:40:GLU:HB2	1:C:42:ASP:OD1	1.78	0.83
1:C:416:ARG:O	1:C:420:ASP:HB2	1.77	0.83
1:C:470:GLN:HB2	1:C:471:PRO:HD3	1.58	0.83
1:G:35:ARG:HD3	1:G:65:PHE:CE2	2.13	0.83
1:G:208:MET:HE3	1:G:212:PHE:CD1	2.13	0.83
3:V:239:HIS:O	3:V:242:VAL:HG23	1.78	0.83
1:A:11:ILE:HA	1:A:14:ILE:HD13	1.61	0.83
1:A:36:SER:HA	1:A:39:ARG:HG2	1.60	0.83
1:E:11:ILE:HA	1:E:14:ILE:HD13	1.61	0.83
1:E:488:VAL:HA	1:E:500:VAL:CG1	2.06	0.83
2:F:110:MET:O	2:F:113:ILE:HD13	1.78	0.83
2:F:317:LEU:HD22	2:F:317:LEU:H	1.44	0.83
1:G:104:THR:HG23	1:G:138:LEU:HD21	1.59	0.83
2:J:494:LYS:O	2:J:496:PRO:HD3	1.78	0.83
1:K:212:PHE:O	1:K:216:VAL:HG23	1.78	0.83
3:P:21:TYR:CZ	3:P:118:MET:HE3	2.14	0.83
1:E:104:THR:HG23	1:E:138:LEU:HD21	1.59	0.83
1:I:11:ILE:HA	1:I:14:ILE:HD13	1.61	0.83
1:I:40:GLU:HB2	1:I:42:ASP:OD1	1.78	0.83
2:L:188:ALA:HA	2:L:195:ASN:OD1	1.78	0.83
3:O:172:PHE:HB2	3:O:201:ARG:HB3	1.59	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:O:239:HIS:O	3:O:242:VAL:HG23	1.78	0.83
3:V:334:TRP:CZ2	3:V:336:PRO:HG3	2.12	0.83
1:G:466:ASP:O	1:G:467:TYR:HD1	1.61	0.83
3:P:268:ARG:C	3:P:269:LEU:HD23	2.01	0.83
4:X:10:ARG:HH11	4:X:61:ARG:HE	1.24	0.83
1:C:36:SER:HA	1:C:39:ARG:HG2	1.60	0.83
2:D:317:LEU:H	2:D:317:LEU:HD22	1.44	0.83
1:E:470:GLN:HB2	1:E:471:PRO:HD3	1.58	0.83
2:H:510:ALA:HB1	2:H:519:LEU:HD11	1.59	0.83
1:A:40:GLU:HB2	1:A:42:ASP:OD1	1.78	0.83
2:D:124:GLU:HB2	2:D:125:PRO:HD3	1.61	0.83
1:E:40:GLU:HB2	1:E:42:ASP:OD1	1.78	0.83
1:G:430:GLY:HA3	1:G:469:GLN:HE21	1.44	0.83
2:F:494:LYS:O	2:F:496:PRO:HD3	1.78	0.82
1:G:488:VAL:HA	1:G:500:VAL:CG1	2.06	0.82
1:K:36:SER:HA	1:K:39:ARG:HG2	1.60	0.82
3:M:21:TYR:CZ	3:M:118:MET:HE3	2.14	0.82
3:N:21:TYR:CZ	3:N:118:MET:HE3	2.14	0.82
1:C:208:MET:HE3	1:C:212:PHE:CD1	2.13	0.82
1:C:581:LEU:O	1:C:583:ARG:N	2.13	0.82
1:E:208:MET:HE3	1:E:212:PHE:CD1	2.13	0.82
1:K:430:GLY:HA3	1:K:469:GLN:HE21	1.44	0.82
2:B:124:GLU:HB2	2:B:125:PRO:HD3	1.61	0.82
1:E:36:SER:HA	1:E:39:ARG:HG2	1.60	0.82
2:L:494:LYS:O	2:L:496:PRO:HD3	1.78	0.82
1:C:466:ASP:O	1:C:467:TYR:HD1	1.61	0.82
1:G:11:ILE:HA	1:G:14:ILE:HD13	1.61	0.82
2:H:317:LEU:H	2:H:317:LEU:HD22	1.44	0.82
1:K:11:ILE:HA	1:K:14:ILE:HD13	1.61	0.82
3:V:21:TYR:CZ	3:V:118:MET:HE3	2.14	0.82
1:A:415:LYS:HE3	1:A:415:LYS:N	1.94	0.82
1:E:250:LEU:HA	1:E:253:LEU:HD12	1.62	0.82
1:E:415:LYS:HE3	1:E:415:LYS:N	1.94	0.82
2:H:110:MET:O	2:H:113:ILE:HD13	1.78	0.82
2:H:188:ALA:HA	2:H:195:ASN:OD1	1.78	0.82
1:K:40:GLU:HB2	1:K:42:ASP:OD1	1.78	0.82
1:K:415:LYS:HE3	1:K:415:LYS:N	1.94	0.82
2:L:317:LEU:H	2:L:317:LEU:HD22	1.44	0.82
4:W:10:ARG:HH11	4:W:61:ARG:HE	1.24	0.82
2:H:494:LYS:O	2:H:496:PRO:HD3	1.78	0.82
2:J:317:LEU:HD22	2:J:317:LEU:H	1.44	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:110:MET:O	2:L:113:ILE:HD13	1.78	0.82
3:R:21:TYR:CZ	3:R:118:MET:HE3	2.14	0.82
1:C:212:PHE:O	1:C:216:VAL:HG23	1.78	0.82
1:E:581:LEU:O	1:E:583:ARG:N	2.13	0.82
1:G:36:SER:HA	1:G:39:ARG:HG2	1.60	0.82
2:H:86:MET:CE	3:R:237:LYS:HB3	2.08	0.82
2:J:124:GLU:HB2	2:J:125:PRO:HD3	1.61	0.82
3:M:172:PHE:HB2	3:M:201:ARG:HB3	1.58	0.82
4:T:109:LYS:HA	4:T:112:PHE:HD1	1.45	0.82
1:G:250:LEU:HA	1:G:253:LEU:HD12	1.62	0.82
2:J:110:MET:O	2:J:113:ILE:HD13	1.78	0.82
2:J:510:ALA:HB1	2:J:519:LEU:HD11	1.59	0.82
2:L:124:GLU:HB2	2:L:125:PRO:HD3	1.61	0.82
3:P:185:ALA:C	3:P:187:GLY:H	1.88	0.82
1:A:35:ARG:HD3	1:A:65:PHE:HE2	1.43	0.82
1:A:581:LEU:O	1:A:583:ARG:N	2.13	0.82
2:L:477:SER:O	2:L:480:VAL:HG12	1.80	0.82
3:P:252:THR:C	3:P:253:ILE:HD12	2.05	0.82
4:T:10:ARG:HH11	4:T:61:ARG:HE	1.24	0.82
2:F:124:GLU:HB2	2:F:125:PRO:HD3	1.61	0.81
1:G:147:LYS:HE2	1:G:147:LYS:HA	1.62	0.81
2:H:200:LYS:O	2:H:204:ILE:HG13	1.80	0.81
1:K:250:LEU:HA	1:K:253:LEU:HD12	1.62	0.81
4:W:109:LYS:HA	4:W:112:PHE:HD1	1.45	0.81
2:B:110:MET:O	2:B:113:ILE:HD13	1.78	0.81
3:M:245:SER:CB	3:M:252:THR:HB	2.10	0.81
3:R:172:PHE:HB2	3:R:201:ARG:HB3	1.58	0.81
3:R:245:SER:CB	3:R:252:THR:HB	2.10	0.81
3:R:252:THR:C	3:R:253:ILE:HD12	2.05	0.81
4:U:108:GLU:HG3	4:U:109:LYS:H	1.45	0.81
1:C:488:VAL:HA	1:C:500:VAL:CG1	2.06	0.81
1:I:212:PHE:O	1:I:216:VAL:HG23	1.78	0.81
1:I:415:LYS:HE3	1:I:415:LYS:N	1.94	0.81
3:P:245:SER:CB	3:P:252:THR:HB	2.10	0.81
3:V:252:THR:C	3:V:253:ILE:HD12	2.05	0.81
4:X:109:LYS:HA	4:X:112:PHE:HD1	1.45	0.81
1:A:498:ILE:HG22	1:A:499:GLN:N	1.96	0.81
4:S:108:GLU:HG3	4:S:109:LYS:H	1.45	0.81
3:V:24:ASP:O	3:V:26:ASP:N	2.14	0.81
2:B:200:LYS:O	2:B:204:ILE:HG13	1.80	0.81
1:G:415:LYS:HE3	1:G:415:LYS:N	1.94	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:477:SER:O	2:H:480:VAL:HG12	1.80	0.81
1:I:250:LEU:HA	1:I:253:LEU:HD12	1.62	0.81
3:M:252:THR:C	3:M:253:ILE:HD12	2.05	0.81
1:A:430:GLY:HA3	1:A:469:GLN:HE21	1.44	0.81
3:N:245:SER:CB	3:N:252:THR:HB	2.10	0.81
3:O:245:SER:CB	3:O:252:THR:HB	2.10	0.81
4:S:109:LYS:HA	4:S:112:PHE:HD1	1.45	0.81
1:A:488:VAL:HA	1:A:500:VAL:CG1	2.06	0.81
2:D:200:LYS:HB2	2:D:203:SER:OG	1.81	0.81
2:D:200:LYS:O	2:D:204:ILE:HG13	1.80	0.81
1:I:35:ARG:HD3	1:I:65:PHE:HE2	1.43	0.81
1:I:581:LEU:O	1:I:583:ARG:N	2.13	0.81
1:K:147:LYS:HE2	1:K:147:LYS:HA	1.62	0.81
1:K:581:LEU:O	1:K:583:ARG:N	2.13	0.81
3:N:126:THR:HG23	3:N:131:LEU:HD13	1.63	0.81
3:N:185:ALA:C	3:N:187:GLY:H	1.88	0.81
4:S:10:ARG:HH11	4:S:61:ARG:HE	1.24	0.81
3:V:245:SER:CB	3:V:252:THR:HB	2.11	0.81
2:B:529:LEU:HD21	2:B:537:ALA:HA	1.63	0.81
1:G:581:LEU:O	1:G:583:ARG:N	2.13	0.81
3:N:252:THR:C	3:N:253:ILE:HD12	2.05	0.81
4:Q:108:GLU:HG3	4:Q:109:LYS:H	1.44	0.81
1:C:11:ILE:HA	1:C:14:ILE:HD13	1.61	0.81
1:G:40:GLU:HB2	1:G:42:ASP:OD1	1.78	0.81
1:I:430:GLY:HA3	1:I:469:GLN:HE21	1.44	0.81
2:J:529:LEU:HD21	2:J:537:ALA:HA	1.63	0.81
1:K:138:LEU:H	1:K:138:LEU:CD2	1.94	0.81
4:Q:109:LYS:HA	4:Q:112:PHE:HD1	1.45	0.81
3:R:185:ALA:C	3:R:187:GLY:H	1.88	0.81
1:A:325:ARG:O	1:A:328:ALA:HB3	1.81	0.81
2:B:477:SER:O	2:B:480:VAL:HG12	1.80	0.81
2:F:200:LYS:HB2	2:F:203:SER:OG	1.81	0.81
2:F:578:PRO:O	2:F:582:VAL:HG23	1.81	0.81
1:G:498:ILE:HG22	1:G:499:GLN:N	1.96	0.81
2:H:200:LYS:HB2	2:H:203:SER:OG	1.81	0.81
2:J:122:LEU:O	2:J:125:PRO:HD2	1.81	0.81
3:P:34:MET:HB3	3:P:35:PRO:HD3	1.63	0.81
3:P:106:ASN:CB	3:P:109:ILE:HD11	2.11	0.81
4:S:7:LEU:HD21	4:S:67:PHE:CD2	2.16	0.81
4:U:7:LEU:HD21	4:U:67:PHE:CD2	2.16	0.81
1:A:250:LEU:HA	1:A:253:LEU:HD12	1.62	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:415:LYS:HE3	1:C:415:LYS:N	1.94	0.80
2:D:362:ALA:HA	2:D:370:VAL:HG13	1.64	0.80
1:E:57:HIS:O	1:E:60:GLY:N	2.15	0.80
1:G:57:HIS:O	1:G:60:GLY:N	2.15	0.80
2:J:208:LEU:HD11	2:J:243:ARG:HD2	1.63	0.80
1:K:35:ARG:HD3	1:K:65:PHE:HE2	1.43	0.80
3:P:106:ASN:HB3	3:P:109:ILE:CD1	2.12	0.80
3:R:106:ASN:CB	3:R:109:ILE:HD11	2.11	0.80
1:C:430:GLY:HA3	1:C:469:GLN:HE21	1.44	0.80
2:J:200:LYS:HB2	2:J:203:SER:OG	1.81	0.80
2:J:200:LYS:O	2:J:204:ILE:HG13	1.80	0.80
3:O:24:ASP:O	3:O:26:ASP:N	2.14	0.80
3:O:34:MET:HB3	3:O:35:PRO:HD3	1.63	0.80
3:O:252:THR:C	3:O:253:ILE:HD12	2.05	0.80
4:T:7:LEU:HD21	4:T:67:PHE:CD2	2.16	0.80
2:B:208:LEU:HD11	2:B:243:ARG:HD2	1.63	0.80
1:C:251:ARG:O	1:C:254:ARG:HB3	1.81	0.80
2:F:122:LEU:O	2:F:125:PRO:HD2	1.82	0.80
2:H:124:GLU:HB2	2:H:125:PRO:HD3	1.61	0.80
2:J:12:LYS:HG2	2:J:13:GLY:H	1.46	0.80
2:J:188:ALA:O	2:J:190:SER:N	2.15	0.80
1:K:251:ARG:O	1:K:254:ARG:HB3	1.81	0.80
2:L:208:LEU:HD11	2:L:243:ARG:HD2	1.63	0.80
2:L:578:PRO:O	2:L:582:VAL:HG23	1.81	0.80
3:O:183:VAL:HG13	3:O:188:ASN:O	1.82	0.80
1:A:138:LEU:H	1:A:138:LEU:CD2	1.94	0.80
1:C:250:LEU:HA	1:C:253:LEU:HD12	1.62	0.80
2:H:529:LEU:HD21	2:H:537:ALA:HA	1.63	0.80
3:M:183:VAL:HG13	3:M:188:ASN:O	1.81	0.80
3:M:185:ALA:C	3:M:187:GLY:H	1.88	0.80
3:P:126:THR:HG23	3:P:131:LEU:HD13	1.63	0.80
4:S:11:GLN:H	4:S:11:GLN:CD	1.90	0.80
1:E:159:LEU:O	1:E:162:VAL:HB	1.82	0.80
1:G:251:ARG:O	1:G:254:ARG:HB3	1.81	0.80
2:H:122:LEU:O	2:H:125:PRO:HD2	1.82	0.80
1:K:325:ARG:O	1:K:328:ALA:HB3	1.81	0.80
2:L:200:LYS:HB2	2:L:203:SER:OG	1.81	0.80
3:N:183:VAL:HG13	3:N:188:ASN:O	1.81	0.80
2:D:12:LYS:HG2	2:D:13:GLY:H	1.46	0.80
2:D:188:ALA:O	2:D:190:SER:N	2.15	0.80
1:E:325:ARG:O	1:E:328:ALA:HB3	1.81	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:208:LEU:HD11	2:F:243:ARG:HD2	1.63	0.80
2:F:362:ALA:HA	2:F:370:VAL:HG13	1.64	0.80
2:H:578:PRO:O	2:H:582:VAL:HG23	1.81	0.80
2:J:578:PRO:O	2:J:582:VAL:HG23	1.81	0.80
3:M:126:THR:HG23	3:M:131:LEU:HD13	1.63	0.80
3:N:269:LEU:HD23	3:N:269:LEU:N	1.97	0.80
3:R:34:MET:HB3	3:R:35:PRO:HD3	1.63	0.80
3:V:126:THR:HG23	3:V:131:LEU:HD13	1.63	0.80
3:V:269:LEU:HD23	3:V:269:LEU:N	1.97	0.80
2:B:200:LYS:HB2	2:B:203:SER:OG	1.81	0.80
1:E:430:GLY:HA3	1:E:469:GLN:HE21	1.44	0.80
2:H:188:ALA:O	2:H:190:SER:N	2.15	0.80
1:I:325:ARG:O	1:I:328:ALA:HB3	1.81	0.80
3:N:17:ILE:HD13	3:N:18:CYS:N	1.97	0.80
4:Q:7:LEU:HD21	4:Q:67:PHE:CD2	2.16	0.80
3:R:17:ILE:HD13	3:R:18:CYS:N	1.97	0.80
4:T:108:GLU:HG3	4:T:109:LYS:H	1.45	0.80
4:W:127:SER:HB3	4:W:130:SER:CB	2.12	0.80
2:F:477:SER:O	2:F:480:VAL:HG12	1.80	0.80
1:K:372:LEU:HD12	1:K:372:LEU:N	1.97	0.80
3:N:173:LEU:HD23	3:N:173:LEU:C	2.07	0.80
4:W:11:GLN:H	4:W:11:GLN:CD	1.90	0.80
1:A:147:LYS:HA	1:A:147:LYS:HE2	1.62	0.80
1:A:159:LEU:O	1:A:162:VAL:HB	1.82	0.80
2:B:12:LYS:HG2	2:B:13:GLY:H	1.46	0.80
2:D:215:THR:O	2:D:218:ALA:N	2.15	0.80
2:D:477:SER:O	2:D:480:VAL:HG12	1.80	0.80
1:E:251:ARG:O	1:E:254:ARG:HB3	1.81	0.80
2:H:12:LYS:HG2	2:H:13:GLY:H	1.46	0.80
1:I:57:HIS:O	1:I:60:GLY:N	2.15	0.80
1:I:147:LYS:HA	1:I:147:LYS:HE2	1.62	0.80
2:J:477:SER:O	2:J:480:VAL:HG12	1.80	0.80
2:L:122:LEU:O	2:L:125:PRO:HD2	1.82	0.80
2:L:188:ALA:O	2:L:190:SER:N	2.15	0.80
3:P:17:ILE:HD13	3:P:18:CYS:N	1.97	0.80
3:P:183:VAL:HG13	3:P:188:ASN:O	1.81	0.80
3:V:173:LEU:HD23	3:V:173:LEU:C	2.07	0.80
4:W:7:LEU:HD21	4:W:67:PHE:CD2	2.17	0.80
2:B:165:LEU:O	2:B:169:ILE:HG13	1.82	0.80
1:C:57:HIS:O	1:C:60:GLY:N	2.15	0.80
2:D:165:LEU:O	2:D:169:ILE:HG13	1.82	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:138:LEU:H	1:E:138:LEU:CD2	1.94	0.80
1:G:159:LEU:O	1:G:162:VAL:HB	1.82	0.80
1:I:372:LEU:HD12	1:I:372:LEU:N	1.97	0.80
1:I:498:ILE:HG22	1:I:499:GLN:N	1.96	0.80
2:L:134:ASP:O	2:L:138:ARG:HG2	1.82	0.80
2:L:165:LEU:O	2:L:169:ILE:HG13	1.82	0.80
2:L:529:LEU:HD21	2:L:537:ALA:HA	1.63	0.80
4:Q:16:LEU:HD12	4:Q:16:LEU:C	2.07	0.80
4:Q:127:SER:HB3	4:Q:130:SER:CB	2.12	0.80
4:U:109:LYS:HA	4:U:112:PHE:HD1	1.45	0.80
3:V:106:ASN:HB3	3:V:109:ILE:CD1	2.12	0.80
1:A:57:HIS:O	1:A:60:GLY:N	2.15	0.79
2:B:188:ALA:O	2:B:190:SER:N	2.15	0.79
1:C:147:LYS:HE2	1:C:147:LYS:HA	1.62	0.79
1:K:57:HIS:O	1:K:60:GLY:N	2.15	0.79
2:L:200:LYS:O	2:L:204:ILE:HG13	1.80	0.79
3:M:173:LEU:C	3:M:173:LEU:HD23	2.07	0.79
3:O:17:ILE:HD13	3:O:18:CYS:N	1.97	0.79
4:Q:11:GLN:H	4:Q:11:GLN:CD	1.90	0.79
3:R:126:THR:HG23	3:R:131:LEU:HD13	1.63	0.79
3:R:173:LEU:HD23	3:R:173:LEU:C	2.07	0.79
4:X:16:LEU:HD12	4:X:16:LEU:C	2.07	0.79
4:X:108:GLU:HG3	4:X:109:LYS:H	1.44	0.79
2:B:215:THR:O	2:B:218:ALA:N	2.15	0.79
1:C:498:ILE:HG22	1:C:499:GLN:N	1.96	0.79
2:D:529:LEU:HD21	2:D:537:ALA:HA	1.63	0.79
2:F:134:ASP:O	2:F:138:ARG:HG2	1.82	0.79
2:F:200:LYS:O	2:F:204:ILE:HG13	1.80	0.79
2:H:165:LEU:O	2:H:169:ILE:HG13	1.82	0.79
2:J:169:ILE:HG12	2:J:180:ARG:HB3	1.65	0.79
2:J:215:THR:O	2:J:218:ALA:N	2.15	0.79
3:O:126:THR:HG23	3:O:131:LEU:HD13	1.63	0.79
3:P:173:LEU:C	3:P:173:LEU:HD23	2.07	0.79
3:R:24:ASP:O	3:R:26:ASP:N	2.14	0.79
4:T:11:GLN:H	4:T:11:GLN:CD	1.90	0.79
4:T:127:SER:HB3	4:T:130:SER:CB	2.12	0.79
4:U:127:SER:HB3	4:U:130:SER:CB	2.12	0.79
1:A:372:LEU:HD12	1:A:372:LEU:N	1.97	0.79
1:C:325:ARG:O	1:C:328:ALA:HB3	1.81	0.79
2:H:215:THR:O	2:H:218:ALA:N	2.15	0.79
3:O:269:LEU:HD23	3:O:269:LEU:N	1.97	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:362:ALA:HA	2:B:370:VAL:HG13	1.63	0.79
1:E:372:LEU:HD12	1:E:372:LEU:N	1.97	0.79
1:G:138:LEU:H	1:G:138:LEU:CD2	1.94	0.79
1:I:159:LEU:O	1:I:162:VAL:HB	1.82	0.79
1:K:159:LEU:O	1:K:162:VAL:HB	1.82	0.79
3:N:106:ASN:CB	3:N:109:ILE:HD11	2.11	0.79
3:O:106:ASN:CB	3:O:109:ILE:HD11	2.11	0.79
4:X:7:LEU:HD21	4:X:67:PHE:CD2	2.16	0.79
1:A:251:ARG:O	1:A:254:ARG:HB3	1.81	0.79
2:B:140:THR:O	2:B:143:VAL:HB	1.83	0.79
2:D:134:ASP:O	2:D:138:ARG:HG2	1.82	0.79
3:M:17:ILE:HD13	3:M:18:CYS:N	1.97	0.79
3:N:24:ASP:O	3:N:26:ASP:N	2.14	0.79
3:O:106:ASN:HB3	3:O:109:ILE:CD1	2.12	0.79
1:A:416:ARG:HG3	1:A:454:TYR:CE1	2.18	0.79
1:C:372:LEU:HD12	1:C:372:LEU:N	1.97	0.79
2:F:188:ALA:O	2:F:190:SER:N	2.15	0.79
1:I:251:ARG:O	1:I:254:ARG:HB3	1.81	0.79
2:L:215:THR:O	2:L:218:ALA:N	2.15	0.79
2:L:362:ALA:HA	2:L:370:VAL:HG13	1.64	0.79
3:M:34:MET:HB3	3:M:35:PRO:HD3	1.63	0.79
2:B:122:LEU:O	2:B:125:PRO:HD2	1.82	0.79
1:G:325:ARG:O	1:G:328:ALA:HB3	1.81	0.79
1:K:416:ARG:HG3	1:K:454:TYR:CE1	2.18	0.79
2:L:169:ILE:HG12	2:L:180:ARG:HB3	1.65	0.79
3:O:173:LEU:HD23	3:O:173:LEU:C	2.07	0.79
3:V:106:ASN:CB	3:V:109:ILE:HD11	2.11	0.79
1:A:205:SER:O	1:A:208:MET:HB2	1.83	0.79
1:E:416:ARG:HG3	1:E:454:TYR:CE1	2.18	0.79
1:G:416:ARG:HG3	1:G:454:TYR:CE1	2.18	0.79
2:H:134:ASP:O	2:H:138:ARG:HG2	1.83	0.79
2:J:134:ASP:O	2:J:138:ARG:HG2	1.82	0.79
1:K:205:SER:O	1:K:208:MET:HB2	1.83	0.79
3:V:183:VAL:HG13	3:V:188:ASN:O	1.81	0.79
4:X:127:SER:HB3	4:X:130:SER:CB	2.12	0.79
1:C:416:ARG:HG3	1:C:454:TYR:HE1	1.48	0.79
2:F:529:LEU:HD21	2:F:537:ALA:HA	1.63	0.79
3:P:269:LEU:HD23	3:P:269:LEU:N	1.97	0.79
4:U:11:GLN:H	4:U:11:GLN:CD	1.90	0.79
3:V:135:ILE:HD12	3:V:135:ILE:O	1.83	0.79
1:C:416:ARG:HG3	1:C:454:TYR:CE1	2.18	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:122:LEU:O	2:D:125:PRO:HD2	1.82	0.79
1:G:138:LEU:HD22	1:G:138:LEU:N	1.98	0.79
1:G:561:GLN:HG2	2:H:522:ARG:HH22	1.48	0.79
1:I:138:LEU:H	1:I:138:LEU:CD2	1.94	0.79
3:M:24:ASP:O	3:M:26:ASP:N	2.14	0.79
4:X:48:SER:HA	4:X:59:TYR:CE2	2.17	0.79
1:C:159:LEU:O	1:C:162:VAL:HB	1.82	0.78
1:E:147:LYS:HA	1:E:147:LYS:HE2	1.62	0.78
2:J:165:LEU:O	2:J:169:ILE:HG13	1.82	0.78
3:R:106:ASN:HB3	3:R:109:ILE:CD1	2.12	0.78
3:R:183:VAL:HG13	3:R:188:ASN:O	1.81	0.78
3:V:17:ILE:HD13	3:V:18:CYS:N	1.97	0.78
2:D:208:LEU:HD11	2:D:243:ARG:HD2	1.63	0.78
2:F:12:LYS:HG2	2:F:13:GLY:H	1.46	0.78
2:J:140:THR:O	2:J:143:VAL:HB	1.83	0.78
3:M:106:ASN:CB	3:M:109:ILE:HD11	2.11	0.78
3:N:106:ASN:HB3	3:N:109:ILE:CD1	2.12	0.78
3:P:24:ASP:O	3:P:26:ASP:N	2.14	0.78
3:V:34:MET:HB3	3:V:35:PRO:HD3	1.63	0.78
1:A:138:LEU:HD22	1:A:138:LEU:N	1.98	0.78
2:B:169:ILE:HG12	2:B:180:ARG:HB3	1.65	0.78
2:D:578:PRO:O	2:D:582:VAL:HG23	1.81	0.78
1:G:230:GLY:HA3	2:J:461:ASN:HD21	1.49	0.78
2:H:208:LEU:HD11	2:H:243:ARG:HD2	1.63	0.78
1:I:205:SER:O	1:I:208:MET:HB2	1.83	0.78
2:J:362:ALA:HA	2:J:370:VAL:HG13	1.63	0.78
1:K:498:ILE:HG22	1:K:499:GLN:N	1.96	0.78
3:M:386:THR:HG22	3:M:389:GLY:H	1.48	0.78
1:C:138:LEU:H	1:C:138:LEU:CD2	1.94	0.78
2:D:169:ILE:HG12	2:D:180:ARG:HB3	1.65	0.78
2:F:215:THR:O	2:F:218:ALA:N	2.15	0.78
1:G:372:LEU:HD12	1:G:372:LEU:N	1.97	0.78
2:L:140:THR:O	2:L:143:VAL:HB	1.83	0.78
4:S:127:SER:HB3	4:S:130:SER:CB	2.12	0.78
3:V:343:TRP:CH2	3:V:356:MET:HB2	2.19	0.78
4:X:11:GLN:H	4:X:11:GLN:CD	1.90	0.78
2:B:450:TRP:HB2	2:B:483:GLN:CG	2.14	0.78
1:C:561:GLN:HG2	2:D:522:ARG:HH22	1.48	0.78
1:E:138:LEU:HD22	1:E:138:LEU:N	1.98	0.78
2:L:162:LEU:O	2:L:165:LEU:HB2	1.84	0.78
3:M:56:ARG:N	3:M:56:ARG:HD2	1.99	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:34:MET:HB3	3:N:35:PRO:HD3	1.63	0.78
3:N:118:MET:HB2	3:N:123:PRO:HA	1.66	0.78
3:P:56:ARG:HD2	3:P:56:ARG:N	1.99	0.78
3:P:135:ILE:HD12	3:P:135:ILE:O	1.83	0.78
4:Q:10:ARG:O	4:Q:40:LEU:HD22	1.84	0.78
3:R:104:ARG:HA	3:R:107:PHE:CE1	2.18	0.78
2:D:140:THR:O	2:D:143:VAL:HB	1.83	0.78
1:E:236:ASP:OD2	1:E:237:VAL:N	2.17	0.78
1:G:205:SER:O	1:G:208:MET:HB2	1.83	0.78
2:H:169:ILE:HG12	2:H:180:ARG:HB3	1.65	0.78
1:I:416:ARG:HG3	1:I:454:TYR:CE1	2.18	0.78
1:I:416:ARG:HG3	1:I:454:TYR:HE1	1.48	0.78
3:M:104:ARG:HA	3:M:107:PHE:CE1	2.18	0.78
3:N:386:THR:HG22	3:N:389:GLY:H	1.48	0.78
3:O:185:ALA:C	3:O:187:GLY:H	1.88	0.78
3:R:118:MET:HB2	3:R:123:PRO:HA	1.66	0.78
2:B:466:LEU:H	2:B:466:LEU:HD12	1.49	0.78
2:D:347:SER:H	2:D:350:ASN:ND2	1.82	0.78
1:E:416:ARG:HG3	1:E:454:TYR:HE1	1.48	0.78
2:F:86:MET:HE2	3:M:237:LYS:HD3	1.65	0.78
2:H:362:ALA:HA	2:H:370:VAL:HG13	1.64	0.78
2:H:401:THR:HB	2:H:403:VAL:HG23	1.66	0.78
1:K:303:SER:O	1:K:307:VAL:HG23	1.84	0.78
3:N:56:ARG:N	3:N:56:ARG:HD2	1.99	0.78
3:P:104:ARG:HA	3:P:107:PHE:CE1	2.18	0.78
3:R:269:LEU:HD23	3:R:269:LEU:N	1.97	0.78
4:S:16:LEU:HD12	4:S:16:LEU:C	2.07	0.78
3:V:185:ALA:C	3:V:187:GLY:H	1.88	0.78
4:W:48:SER:HA	4:W:59:TYR:CE2	2.17	0.78
4:W:108:GLU:HG3	4:W:109:LYS:H	1.44	0.78
2:B:162:LEU:O	2:B:165:LEU:HB2	1.84	0.78
1:C:227:ILE:HD11	1:C:274:VAL:HG22	1.66	0.78
1:C:236:ASP:OD2	1:C:237:VAL:N	2.17	0.78
2:J:569:THR:HG22	2:J:571:ALA:N	1.99	0.78
2:L:12:LYS:HG2	2:L:13:GLY:H	1.46	0.78
2:L:401:THR:HB	2:L:403:VAL:HG23	1.66	0.78
3:P:386:THR:HG22	3:P:389:GLY:H	1.48	0.78
3:R:178:ALA:HB1	3:R:415:ASN:HB2	1.66	0.78
3:V:178:ALA:HB1	3:V:415:ASN:HB2	1.66	0.78
4:X:71:ILE:HG22	4:X:72:GLU:N	1.99	0.78
1:A:236:ASP:OD2	1:A:237:VAL:N	2.17	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:134:ASP:O	2:B:138:ARG:HG2	1.82	0.78
2:H:162:LEU:O	2:H:165:LEU:HB2	1.84	0.78
2:H:569:THR:HG22	2:H:571:ALA:N	1.99	0.78
2:L:450:TRP:HB2	2:L:483:GLN:CG	2.14	0.78
2:L:569:THR:HG22	2:L:571:ALA:N	1.99	0.78
3:M:106:ASN:HB3	3:M:109:ILE:CD1	2.12	0.78
3:R:56:ARG:N	3:R:56:ARG:HD2	1.99	0.78
4:U:8:PHE:O	4:U:66:TYR:HB2	1.84	0.78
1:A:498:ILE:CG2	1:A:499:GLN:H	1.97	0.78
2:F:104:ALA:HB1	2:F:136:TYR:HD2	1.49	0.78
2:F:140:THR:O	2:F:143:VAL:HB	1.83	0.78
2:F:165:LEU:O	2:F:169:ILE:HG13	1.82	0.78
2:J:522:ARG:HG2	2:J:526:TYR:HE1	1.49	0.78
1:K:236:ASP:OD2	1:K:237:VAL:N	2.17	0.78
3:M:178:ALA:HB1	3:M:415:ASN:HB2	1.66	0.78
3:O:104:ARG:HA	3:O:107:PHE:CE1	2.18	0.78
3:O:118:MET:HB2	3:O:123:PRO:HA	1.66	0.78
3:O:343:TRP:CH2	3:O:356:MET:HB2	2.19	0.78
1:A:227:ILE:HD11	1:A:274:VAL:HG22	1.66	0.77
2:D:104:ALA:HB1	2:D:136:TYR:HD2	1.49	0.77
2:D:162:LEU:O	2:D:165:LEU:HB2	1.84	0.77
2:D:569:THR:HG22	2:D:571:ALA:N	1.99	0.77
1:E:205:SER:O	1:E:208:MET:HB2	1.83	0.77
1:E:561:GLN:HG2	2:F:522:ARG:HH22	1.48	0.77
1:G:236:ASP:OD2	1:G:237:VAL:N	2.17	0.77
2:H:140:THR:O	2:H:143:VAL:HB	1.83	0.77
3:O:135:ILE:HD12	3:O:135:ILE:O	1.83	0.77
4:U:16:LEU:HD12	4:U:16:LEU:C	2.07	0.77
4:W:10:ARG:O	4:W:40:LEU:HD22	1.84	0.77
4:W:16:LEU:HD12	4:W:16:LEU:C	2.07	0.77
1:C:303:SER:O	1:C:307:VAL:HG23	1.84	0.77
1:E:303:SER:O	1:E:307:VAL:HG23	1.84	0.77
2:H:347:SER:H	2:H:350:ASN:ND2	1.82	0.77
1:K:100:HIS:HE1	1:K:134:MET:HB2	1.49	0.77
3:O:56:ARG:HD2	3:O:56:ARG:N	1.99	0.77
4:S:71:ILE:HG22	4:S:72:GLU:N	1.99	0.77
4:T:71:ILE:HG22	4:T:72:GLU:N	1.99	0.77
4:X:10:ARG:O	4:X:40:LEU:HD22	1.84	0.77
2:D:60:THR:HG22	2:D:61:ASP:N	1.99	0.77
2:D:401:THR:HB	2:D:403:VAL:HG23	1.66	0.77
2:F:162:LEU:O	2:F:165:LEU:HB2	1.84	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:466:LEU:H	2:F:466:LEU:HD12	1.49	0.77
2:H:450:TRP:HB2	2:H:483:GLN:CG	2.14	0.77
2:J:104:ALA:HB1	2:J:136:TYR:HD2	1.50	0.77
3:M:343:TRP:CH2	3:M:356:MET:HB2	2.19	0.77
3:R:135:ILE:HD12	3:R:135:ILE:O	1.83	0.77
4:U:71:ILE:HG22	4:U:72:GLU:N	1.99	0.77
3:V:144:THR:HG22	3:V:145:GLY:H	1.50	0.77
1:C:138:LEU:HD22	1:C:138:LEU:N	1.98	0.77
1:C:205:SER:O	1:C:208:MET:HB2	1.83	0.77
1:E:498:ILE:CG2	1:E:499:GLN:H	1.97	0.77
2:H:466:LEU:H	2:H:466:LEU:HD12	1.49	0.77
1:K:416:ARG:HG3	1:K:454:TYR:HE1	1.48	0.77
3:M:135:ILE:O	3:M:135:ILE:HD12	1.83	0.77
3:V:104:ARG:HA	3:V:107:PHE:CE1	2.18	0.77
2:F:304:ARG:HG2	2:F:573:VAL:HG23	1.67	0.77
2:J:347:SER:H	2:J:350:ASN:ND2	1.82	0.77
2:L:104:ALA:HB1	2:L:136:TYR:HD2	1.50	0.77
2:L:465:LEU:H	2:L:465:LEU:HD12	1.49	0.77
3:M:144:THR:HG22	3:M:145:GLY:H	1.50	0.77
3:N:104:ARG:HA	3:N:107:PHE:CE1	2.18	0.77
3:R:343:TRP:CH2	3:R:356:MET:HB2	2.19	0.77
4:X:8:PHE:O	4:X:66:TYR:HB2	1.84	0.77
1:E:498:ILE:HG22	1:E:499:GLN:N	1.96	0.77
3:P:343:TRP:CH2	3:P:356:MET:HB2	2.19	0.77
4:Q:8:PHE:O	4:Q:66:TYR:HB2	1.84	0.77
4:T:8:PHE:O	4:T:66:TYR:HB2	1.84	0.77
4:T:10:ARG:O	4:T:40:LEU:HD22	1.84	0.77
2:F:347:SER:H	2:F:350:ASN:ND2	1.82	0.77
1:K:561:GLN:HG2	2:L:522:ARG:HH22	1.48	0.77
3:M:118:MET:HB2	3:M:123:PRO:HA	1.66	0.77
3:M:409:VAL:HG12	3:M:410:ARG:N	2.00	0.77
3:N:343:TRP:CH2	3:N:356:MET:HB2	2.19	0.77
3:N:409:VAL:HG12	3:N:410:ARG:N	2.00	0.77
4:S:10:ARG:O	4:S:40:LEU:HD22	1.84	0.77
2:B:420:LYS:C	2:B:421:TYR:HD2	1.93	0.77
2:B:465:LEU:H	2:B:465:LEU:HD12	1.49	0.77
2:D:420:LYS:C	2:D:421:TYR:HD2	1.93	0.77
2:F:169:ILE:HG12	2:F:180:ARG:HB3	1.65	0.77
2:F:450:TRP:HB2	2:F:483:GLN:CG	2.14	0.77
2:F:522:ARG:HG2	2:F:526:TYR:HE1	1.49	0.77
2:H:347:SER:N	2:H:350:ASN:ND2	2.33	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:41:MET:HE3	2:J:47:VAL:HG21	1.67	0.77
1:K:531:MET:HE2	1:K:581:LEU:HD11	1.67	0.77
3:V:56:ARG:N	3:V:56:ARG:HD2	1.99	0.77
3:V:118:MET:HB2	3:V:123:PRO:HA	1.66	0.77
1:A:309:ALA:O	1:A:312:ILE:HB	1.85	0.77
2:B:401:THR:HB	2:B:403:VAL:HG23	1.66	0.77
2:F:58:MET:HE3	2:F:90:THR:HG21	1.67	0.77
1:G:303:SER:O	1:G:307:VAL:HG23	1.84	0.77
1:G:309:ALA:O	1:G:312:ILE:HB	1.85	0.77
2:H:60:THR:HG22	2:H:61:ASP:N	1.99	0.77
2:H:326:VAL:HG12	2:H:338:LYS:HD2	1.67	0.77
2:J:401:THR:HB	2:J:403:VAL:HG23	1.66	0.77
2:L:326:VAL:HG12	2:L:338:LYS:HD2	1.67	0.77
2:L:466:LEU:H	2:L:466:LEU:HD12	1.49	0.77
3:O:6:VAL:HG21	3:O:118:MET:HE1	1.67	0.77
3:O:178:ALA:HB1	3:O:415:ASN:HB2	1.66	0.77
3:P:118:MET:HB2	3:P:123:PRO:HA	1.66	0.77
4:T:16:LEU:HD12	4:T:16:LEU:C	2.07	0.77
4:X:80:THR:O	4:X:83:LEU:HB3	1.85	0.77
2:B:569:THR:HG22	2:B:571:ALA:N	1.99	0.77
2:H:58:MET:HE3	2:H:90:THR:HG21	1.67	0.77
1:I:227:ILE:HD11	1:I:274:VAL:HG22	1.66	0.77
2:J:162:LEU:O	2:J:165:LEU:HB2	1.84	0.77
3:N:135:ILE:O	3:N:135:ILE:HD12	1.83	0.77
3:R:299:SER:HB3	3:R:348:PHE:CE2	2.20	0.77
4:S:8:PHE:O	4:S:66:TYR:HB2	1.84	0.77
4:T:8:PHE:HD2	4:T:8:PHE:H	1.33	0.77
1:A:322:LYS:O	1:A:323:ASN:C	2.27	0.76
2:D:450:TRP:HB2	2:D:483:GLN:CG	2.14	0.76
2:F:569:THR:HG22	2:F:571:ALA:N	1.99	0.76
2:J:230:MET:HE2	2:J:240:ILE:HD12	1.67	0.76
1:K:138:LEU:HD22	1:K:138:LEU:N	1.98	0.76
2:L:143:VAL:HG12	2:L:147:LYS:HE3	1.67	0.76
3:M:32:HIS:HD1	3:M:52:HIS:CD2	2.04	0.76
3:M:269:LEU:HD23	3:M:269:LEU:N	1.97	0.76
3:P:6:VAL:HG21	3:P:118:MET:HE1	1.67	0.76
4:Q:71:ILE:HG22	4:Q:72:GLU:N	1.99	0.76
3:R:32:HIS:HD1	3:R:52:HIS:CD2	2.04	0.76
4:U:80:THR:O	4:U:83:LEU:HB3	1.85	0.76
1:C:103:MET:HA	1:C:103:MET:HE3	1.68	0.76
2:D:304:ARG:HG2	2:D:573:VAL:HG23	1.67	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:522:ARG:HG2	2:D:526:TYR:HE1	1.49	0.76
1:E:103:MET:HE3	1:E:103:MET:HA	1.68	0.76
2:F:230:MET:HE2	2:F:240:ILE:HD12	1.67	0.76
1:I:138:LEU:HD22	1:I:138:LEU:N	1.98	0.76
1:I:236:ASP:OD2	1:I:237:VAL:N	2.17	0.76
1:I:561:GLN:HG2	2:J:522:ARG:HH22	1.48	0.76
1:K:227:ILE:HD11	1:K:274:VAL:HG22	1.66	0.76
3:O:144:THR:HG22	3:O:145:GLY:H	1.50	0.76
3:V:6:VAL:HG21	3:V:118:MET:HE1	1.67	0.76
2:B:569:THR:O	2:B:572:SER:HB3	1.85	0.76
1:C:309:ALA:O	1:C:312:ILE:HB	1.85	0.76
2:F:85:ILE:O	2:F:87:ALA:N	2.19	0.76
1:G:227:ILE:HD11	1:G:274:VAL:HG22	1.66	0.76
1:G:562:ARG:NE	2:H:522:ARG:HD2	2.01	0.76
2:H:304:ARG:HG2	2:H:573:VAL:HG23	1.67	0.76
2:H:465:LEU:H	2:H:465:LEU:HD12	1.50	0.76
2:J:450:TRP:HB2	2:J:483:GLN:CG	2.14	0.76
2:L:304:ARG:HG2	2:L:573:VAL:HG23	1.67	0.76
2:L:420:LYS:C	2:L:421:TYR:HD2	1.93	0.76
3:M:321:ASP:CG	3:M:322:SER:H	1.93	0.76
3:N:321:ASP:CG	3:N:322:SER:H	1.93	0.76
3:O:32:HIS:HD1	3:O:52:HIS:CD2	2.04	0.76
3:P:144:THR:HG22	3:P:145:GLY:H	1.50	0.76
4:T:80:THR:O	4:T:83:LEU:HB3	1.85	0.76
3:V:299:SER:HB3	3:V:348:PHE:CE2	2.20	0.76
1:A:303:SER:O	1:A:307:VAL:HG23	1.84	0.76
1:A:561:GLN:HG2	2:B:522:ARG:HH22	1.48	0.76
2:B:326:VAL:HG12	2:B:338:LYS:HD2	1.67	0.76
1:C:498:ILE:CG2	1:C:499:GLN:H	1.97	0.76
2:F:326:VAL:HG12	2:F:338:LYS:HD2	1.67	0.76
1:G:103:MET:HA	1:G:103:MET:HE3	1.67	0.76
2:J:143:VAL:HG12	2:J:147:LYS:HE3	1.67	0.76
3:N:144:THR:HG22	3:N:145:GLY:H	1.50	0.76
3:R:409:VAL:HG12	3:R:410:ARG:N	2.00	0.76
4:W:80:THR:O	4:W:83:LEU:HB3	1.85	0.76
4:W:107:PHE:CD2	4:W:108:GLU:N	2.53	0.76
2:D:466:LEU:H	2:D:466:LEU:HD12	1.49	0.76
2:D:569:THR:O	2:D:572:SER:HB3	1.85	0.76
2:F:41:MET:HE3	2:F:47:VAL:HG21	1.67	0.76
2:F:420:LYS:C	2:F:421:TYR:HD2	1.93	0.76
2:H:85:ILE:O	2:H:87:ALA:N	2.19	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:465:LEU:H	2:J:465:LEU:HD12	1.49	0.76
1:K:103:MET:HA	1:K:103:MET:HE3	1.68	0.76
1:K:322:LYS:O	1:K:323:ASN:C	2.27	0.76
3:O:409:VAL:HG12	3:O:410:ARG:N	2.00	0.76
3:P:32:HIS:HD1	3:P:52:HIS:CD2	2.04	0.76
3:R:386:THR:HG22	3:R:389:GLY:H	1.48	0.76
4:U:8:PHE:H	4:U:8:PHE:HD2	1.34	0.76
4:U:10:ARG:O	4:U:40:LEU:HD22	1.84	0.76
2:B:130:LEU:HD21	2:B:141:ALA:CB	2.14	0.76
2:B:493:LEU:C	2:B:495:LYS:H	1.94	0.76
1:C:531:MET:HE2	1:C:581:LEU:HD11	1.67	0.76
2:D:41:MET:HE3	2:D:47:VAL:HG21	1.67	0.76
1:E:562:ARG:NE	2:F:522:ARG:HD2	2.01	0.76
1:G:322:LYS:O	1:G:323:ASN:C	2.27	0.76
2:H:41:MET:HE3	2:H:47:VAL:HG21	1.67	0.76
2:J:103:ARG:O	2:J:107:VAL:HG23	1.86	0.76
2:L:31:LYS:HD3	2:L:64:GLU:HG2	1.68	0.76
3:R:144:THR:HG22	3:R:145:GLY:H	1.50	0.76
4:T:11:GLN:NE2	4:T:11:GLN:N	2.32	0.76
2:B:60:THR:HG22	2:B:61:ASP:N	1.99	0.76
2:B:292:LEU:C	2:B:294:ALA:H	1.93	0.76
2:D:465:LEU:H	2:D:465:LEU:HD12	1.49	0.76
1:E:309:ALA:O	1:E:312:ILE:HB	1.85	0.76
1:I:303:SER:O	1:I:307:VAL:HG23	1.84	0.76
1:I:498:ILE:CG2	1:I:499:GLN:H	1.97	0.76
1:K:309:ALA:O	1:K:312:ILE:HB	1.85	0.76
3:M:6:VAL:HG21	3:M:118:MET:HE1	1.67	0.76
4:Q:48:SER:HA	4:Q:59:TYR:CE2	2.17	0.76
3:R:321:ASP:CG	3:R:322:SER:H	1.93	0.76
4:T:107:PHE:CD2	4:T:108:GLU:N	2.53	0.76
3:V:185:ALA:O	3:V:187:GLY:N	2.19	0.76
3:V:409:VAL:HG12	3:V:410:ARG:N	2.00	0.76
4:W:8:PHE:HD2	4:W:8:PHE:H	1.34	0.76
2:B:31:LYS:HD3	2:B:64:GLU:HG2	1.68	0.76
2:B:85:ILE:O	2:B:88:VAL:HG23	1.86	0.76
2:D:85:ILE:O	2:D:88:VAL:HG23	1.86	0.76
2:H:104:ALA:HB1	2:H:136:TYR:HD2	1.49	0.76
2:J:326:VAL:HG12	2:J:338:LYS:HD2	1.67	0.76
2:J:466:LEU:H	2:J:466:LEU:HD12	1.49	0.76
1:K:498:ILE:CG2	1:K:499:GLN:H	1.97	0.76
3:N:6:VAL:HG21	3:N:118:MET:HE1	1.67	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:Q:8:PHE:H	4:Q:8:PHE:HD2	1.34	0.76
4:T:48:SER:HA	4:T:59:TYR:CE2	2.18	0.76
1:A:567:ASN:C	1:A:567:ASN:HD22	1.94	0.76
2:D:58:MET:HE3	2:D:90:THR:HG21	1.67	0.76
1:E:531:MET:HE2	1:E:581:LEU:HD11	1.67	0.76
2:F:401:THR:HB	2:F:403:VAL:HG23	1.66	0.76
1:I:322:LYS:O	1:I:323:ASN:C	2.27	0.76
2:J:31:LYS:HD3	2:J:64:GLU:HG2	1.68	0.76
2:J:85:ILE:O	2:J:87:ALA:N	2.19	0.76
2:J:85:ILE:O	2:J:88:VAL:HG23	1.86	0.76
2:L:41:MET:HE3	2:L:47:VAL:HG21	1.67	0.76
2:L:103:ARG:O	2:L:107:VAL:HG23	1.86	0.76
3:O:299:SER:HB3	3:O:348:PHE:CE2	2.20	0.76
3:O:386:THR:HG22	3:O:389:GLY:H	1.48	0.76
3:V:321:ASP:CG	3:V:322:SER:H	1.93	0.76
1:A:230:GLY:HA3	2:D:461:ASN:ND2	2.01	0.76
2:B:41:MET:HE3	2:B:47:VAL:HG21	1.67	0.76
1:E:74:ILE:H	1:E:74:ILE:HD12	1.51	0.76
2:F:103:ARG:O	2:F:107:VAL:HG23	1.86	0.76
2:F:143:VAL:HG12	2:F:147:LYS:HE3	1.67	0.76
2:F:148:LEU:HA	2:F:151:ILE:CD1	2.16	0.76
1:G:100:HIS:HE1	1:G:134:MET:HB2	1.49	0.76
1:K:74:ILE:HD12	1:K:74:ILE:H	1.51	0.76
2:L:347:SER:H	2:L:350:ASN:ND2	1.82	0.76
2:L:522:ARG:HG2	2:L:526:TYR:HE1	1.49	0.76
3:N:32:HIS:HD1	3:N:52:HIS:CD2	2.04	0.76
3:N:178:ALA:HB1	3:N:415:ASN:HB2	1.66	0.76
3:P:178:ALA:HB1	3:P:415:ASN:HB2	1.66	0.76
4:Q:80:THR:O	4:Q:83:LEU:HB3	1.85	0.76
1:E:227:ILE:HD11	1:E:274:VAL:HG22	1.66	0.75
2:F:465:LEU:H	2:F:465:LEU:HD12	1.49	0.75
2:H:148:LEU:HA	2:H:151:ILE:CD1	2.17	0.75
2:H:522:ARG:HG2	2:H:526:TYR:HE1	1.49	0.75
2:J:60:THR:HG22	2:J:61:ASP:N	1.99	0.75
2:J:304:ARG:HG2	2:J:573:VAL:HG23	1.67	0.75
1:K:562:ARG:NE	2:L:522:ARG:HD2	2.01	0.75
3:M:299:SER:HB3	3:M:348:PHE:CE2	2.20	0.75
3:V:32:HIS:HD1	3:V:52:HIS:CD2	2.04	0.75
1:A:103:MET:HE3	1:A:103:MET:HA	1.67	0.75
2:D:31:LYS:HD3	2:D:64:GLU:HG2	1.68	0.75
1:E:152:TYR:O	1:E:155:LYS:HG2	1.86	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:416:ARG:HG3	1:G:454:TYR:HE1	1.48	0.75
1:G:498:ILE:CG2	1:G:499:GLN:H	1.97	0.75
2:H:85:ILE:O	2:H:88:VAL:HG23	1.86	0.75
1:I:309:ALA:O	1:I:312:ILE:HB	1.85	0.75
1:I:567:ASN:C	1:I:567:ASN:HD22	1.94	0.75
2:J:58:MET:HE3	2:J:90:THR:HG21	1.67	0.75
2:J:148:LEU:HA	2:J:151:ILE:CD1	2.17	0.75
2:J:420:LYS:C	2:J:421:TYR:HD2	1.93	0.75
3:O:321:ASP:CG	3:O:322:SER:H	1.93	0.75
4:X:30:LYS:HZ2	4:X:30:LYS:HB2	1.50	0.75
1:A:531:MET:HE2	1:A:581:LEU:HD11	1.67	0.75
2:B:104:ALA:HB1	2:B:136:TYR:HD2	1.49	0.75
2:F:569:THR:O	2:F:572:SER:HB3	1.85	0.75
2:H:103:ARG:O	2:H:107:VAL:HG23	1.86	0.75
2:J:130:LEU:HD21	2:J:141:ALA:CB	2.14	0.75
2:J:292:LEU:C	2:J:294:ALA:H	1.93	0.75
2:L:347:SER:N	2:L:350:ASN:ND2	2.33	0.75
3:N:415:ASN:CG	3:N:416:GLY:N	2.45	0.75
3:P:299:SER:HB3	3:P:348:PHE:CE2	2.20	0.75
3:P:415:ASN:CG	3:P:416:GLY:N	2.45	0.75
4:S:80:THR:O	4:S:83:LEU:HB3	1.85	0.75
4:S:107:PHE:CD2	4:S:108:GLU:N	2.53	0.75
4:W:8:PHE:O	4:W:66:TYR:HB2	1.84	0.75
2:B:347:SER:H	2:B:350:ASN:ND2	1.82	0.75
2:B:522:ARG:HG2	2:B:526:TYR:HE1	1.49	0.75
2:D:51:PHE:HB3	2:D:52:PRO:HD3	1.68	0.75
1:G:531:MET:HE2	1:G:581:LEU:HD11	1.67	0.75
2:H:230:MET:HE2	2:H:240:ILE:HD12	1.67	0.75
2:H:420:LYS:C	2:H:421:TYR:HD2	1.93	0.75
1:I:74:ILE:H	1:I:74:ILE:HD12	1.51	0.75
3:O:185:ALA:O	3:O:187:GLY:N	2.19	0.75
4:U:107:PHE:CD2	4:U:108:GLU:N	2.53	0.75
3:V:386:THR:HG22	3:V:389:GLY:H	1.48	0.75
4:X:107:PHE:CD2	4:X:108:GLU:N	2.53	0.75
2:B:58:MET:HE3	2:B:90:THR:HG21	1.67	0.75
2:B:145:VAL:HG11	2:B:165:LEU:HD11	1.69	0.75
2:B:148:LEU:HA	2:B:151:ILE:CD1	2.17	0.75
2:B:347:SER:N	2:B:350:ASN:ND2	2.33	0.75
2:D:145:VAL:HG11	2:D:165:LEU:HD11	1.69	0.75
2:D:326:VAL:HG12	2:D:338:LYS:HD2	1.67	0.75
1:E:27:ILE:HD12	1:E:61:TYR:CE2	2.22	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:31:LYS:HD3	2:F:64:GLU:HG2	1.68	0.75
1:G:27:ILE:HD12	1:G:61:TYR:CE2	2.22	0.75
2:H:31:LYS:HD3	2:H:64:GLU:HG2	1.68	0.75
2:J:569:THR:O	2:J:572:SER:HB3	1.85	0.75
3:M:415:ASN:CG	3:M:416:GLY:N	2.45	0.75
3:P:321:ASP:CG	3:P:322:SER:H	1.93	0.75
4:Q:11:GLN:NE2	4:Q:11:GLN:N	2.32	0.75
3:R:6:VAL:HG21	3:R:118:MET:HE1	1.68	0.75
4:S:48:SER:HA	4:S:59:TYR:CE2	2.17	0.75
2:D:85:ILE:O	2:D:87:ALA:N	2.19	0.75
2:D:148:LEU:HA	2:D:151:ILE:CD1	2.16	0.75
1:E:430:GLY:HA3	1:E:469:GLN:NE2	2.01	0.75
1:E:567:ASN:C	1:E:567:ASN:HD22	1.94	0.75
2:H:51:PHE:HB3	2:H:52:PRO:HD3	1.68	0.75
2:H:292:LEU:C	2:H:294:ALA:H	1.93	0.75
2:J:51:PHE:HB3	2:J:52:PRO:HD3	1.68	0.75
2:L:85:ILE:O	2:L:88:VAL:HG23	1.86	0.75
3:M:9:LEU:HD22	3:M:15:VAL:HA	1.69	0.75
3:M:185:ALA:O	3:M:187:GLY:N	2.19	0.75
4:Q:107:PHE:CD2	4:Q:108:GLU:N	2.53	0.75
3:R:332:VAL:HG22	3:R:343:TRP:CD1	2.22	0.75
3:V:9:LEU:HD22	3:V:15:VAL:HA	1.69	0.75
1:A:27:ILE:HD12	1:A:61:TYR:CE2	2.22	0.75
1:A:416:ARG:HG3	1:A:454:TYR:HE1	1.48	0.75
1:A:430:GLY:HA3	1:A:469:GLN:NE2	2.01	0.75
1:A:473:VAL:HG23	1:A:474:GLN:N	2.02	0.75
2:B:103:ARG:O	2:B:107:VAL:HG23	1.86	0.75
1:C:100:HIS:HE1	1:C:134:MET:HB2	1.49	0.75
1:I:100:HIS:HE1	1:I:134:MET:HB2	1.49	0.75
1:I:531:MET:HE2	1:I:581:LEU:HD11	1.67	0.75
1:I:562:ARG:NE	2:J:522:ARG:HD2	2.01	0.75
3:P:9:LEU:HD22	3:P:15:VAL:HA	1.69	0.75
3:R:185:ALA:O	3:R:187:GLY:N	2.19	0.75
2:B:85:ILE:O	2:B:87:ALA:N	2.19	0.75
2:D:230:MET:HE2	2:D:240:ILE:HD12	1.67	0.75
2:F:347:SER:N	2:F:350:ASN:ND2	2.33	0.75
2:J:486:THR:HG22	2:J:487:ALA:N	2.02	0.75
1:K:473:VAL:HG23	1:K:474:GLN:N	2.02	0.75
2:L:60:THR:HG22	2:L:61:ASP:N	1.99	0.75
2:L:145:VAL:HG11	2:L:165:LEU:HD11	1.69	0.75
3:R:415:ASN:CG	3:R:416:GLY:N	2.45	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:486:THR:HG22	2:D:487:ALA:N	2.02	0.75
1:E:208:MET:HE3	1:E:212:PHE:HD1	1.51	0.75
2:F:257:LEU:HD11	2:F:567:ILE:HG22	1.69	0.75
2:F:310:VAL:HG12	2:F:317:LEU:HD21	1.69	0.75
2:F:493:LEU:C	2:F:495:LYS:H	1.94	0.75
1:G:74:ILE:HD12	1:G:74:ILE:H	1.51	0.75
1:G:473:VAL:HG23	1:G:474:GLN:N	2.02	0.75
2:H:55:VAL:O	2:H:58:MET:HB2	1.87	0.75
2:H:143:VAL:HG12	2:H:147:LYS:HE3	1.67	0.75
2:H:569:THR:O	2:H:572:SER:HB3	1.85	0.75
2:L:58:MET:HE3	2:L:90:THR:HG21	1.67	0.75
2:L:257:LEU:HD11	2:L:567:ILE:HG22	1.69	0.75
3:V:216:ASP:O	3:V:218:VAL:N	2.20	0.75
4:W:71:ILE:HG22	4:W:72:GLU:N	1.99	0.75
2:B:143:VAL:HG12	2:B:147:LYS:HE3	1.67	0.74
2:B:377:ILE:HG21	2:B:395:LEU:HD21	1.69	0.74
2:D:143:VAL:HG12	2:D:147:LYS:HE3	1.67	0.74
2:D:377:ILE:HG21	2:D:395:LEU:HD21	1.69	0.74
1:E:473:VAL:HG23	1:E:474:GLN:N	2.02	0.74
2:F:486:THR:HG22	2:F:487:ALA:N	2.02	0.74
1:G:567:ASN:HD22	1:G:567:ASN:C	1.94	0.74
1:I:103:MET:HE3	1:I:103:MET:HA	1.68	0.74
1:I:152:TYR:O	1:I:155:LYS:HG2	1.87	0.74
1:I:430:GLY:HA3	1:I:469:GLN:NE2	2.01	0.74
2:J:145:VAL:HG11	2:J:165:LEU:HD11	1.69	0.74
2:J:310:VAL:HG12	2:J:317:LEU:HD21	1.69	0.74
1:K:152:TYR:O	1:K:155:LYS:HG2	1.86	0.74
2:L:85:ILE:O	2:L:87:ALA:N	2.19	0.74
2:L:230:MET:HE2	2:L:240:ILE:HD12	1.67	0.74
2:L:569:THR:O	2:L:572:SER:HB3	1.85	0.74
3:M:216:ASP:O	3:M:218:VAL:N	2.20	0.74
3:O:9:LEU:HD22	3:O:15:VAL:HA	1.69	0.74
3:P:332:VAL:HG22	3:P:343:TRP:CD1	2.22	0.74
1:C:152:TYR:O	1:C:155:LYS:HG2	1.86	0.74
1:C:473:VAL:HG23	1:C:474:GLN:N	2.02	0.74
2:F:60:THR:HG22	2:F:61:ASP:N	1.99	0.74
2:L:377:ILE:HG21	2:L:395:LEU:HD21	1.69	0.74
3:P:399:GLU:HG3	3:P:400:LYS:N	2.03	0.74
3:P:409:VAL:HG12	3:P:410:ARG:N	2.00	0.74
3:R:216:ASP:O	3:R:218:VAL:N	2.20	0.74
1:C:27:ILE:HD12	1:C:61:TYR:CE2	2.22	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:436:LEU:HD13	2:D:436:LEU:C	2.12	0.74
2:F:51:PHE:HB3	2:F:52:PRO:HD3	1.68	0.74
1:G:152:TYR:O	1:G:155:LYS:HG2	1.86	0.74
1:I:22:GLU:O	1:I:25:GLU:HB3	1.87	0.74
2:J:257:LEU:HD11	2:J:567:ILE:HG22	1.69	0.74
2:L:149:HIS:ND1	2:L:187:ILE:HG23	2.03	0.74
3:P:185:ALA:O	3:P:187:GLY:N	2.19	0.74
4:Q:50:LEU:HD23	4:Q:51:GLU:N	2.03	0.74
4:X:50:LEU:HD23	4:X:51:GLU:N	2.03	0.74
2:B:436:LEU:C	2:B:436:LEU:HD13	2.12	0.74
2:D:252:ASN:O	2:D:255:VAL:HG22	1.87	0.74
1:E:22:GLU:O	1:E:25:GLU:HB3	1.87	0.74
2:F:149:HIS:ND1	2:F:187:ILE:HG23	2.02	0.74
2:F:377:ILE:HG21	2:F:395:LEU:HD21	1.69	0.74
2:H:252:ASN:O	2:H:255:VAL:HG22	1.87	0.74
1:I:27:ILE:HD12	1:I:61:TYR:CE2	2.22	0.74
1:K:430:GLY:HA3	1:K:469:GLN:NE2	2.01	0.74
2:L:55:VAL:O	2:L:58:MET:HB2	1.87	0.74
2:L:436:LEU:HD13	2:L:436:LEU:C	2.13	0.74
3:N:185:ALA:O	3:N:187:GLY:N	2.19	0.74
3:P:131:LEU:O	3:P:133:GLU:N	2.21	0.74
3:P:276:LEU:HB3	3:P:301:PHE:CZ	2.23	0.74
3:V:276:LEU:HB3	3:V:301:PHE:CZ	2.23	0.74
2:B:51:PHE:HB3	2:B:52:PRO:HD3	1.68	0.74
2:B:149:HIS:ND1	2:B:187:ILE:HG23	2.02	0.74
2:B:304:ARG:HG2	2:B:573:VAL:HG23	1.67	0.74
2:B:486:THR:HG22	2:B:487:ALA:N	2.02	0.74
1:C:208:MET:HE3	1:C:212:PHE:HD1	1.51	0.74
2:D:292:LEU:C	2:D:294:ALA:H	1.93	0.74
2:H:130:LEU:HD21	2:H:141:ALA:CB	2.14	0.74
2:B:257:LEU:HD11	2:B:567:ILE:HG22	1.69	0.74
2:B:310:VAL:HG12	2:B:317:LEU:HD21	1.69	0.74
2:D:103:ARG:O	2:D:107:VAL:HG23	1.86	0.74
2:F:85:ILE:O	2:F:88:VAL:HG23	1.86	0.74
2:L:148:LEU:HA	2:L:151:ILE:CD1	2.17	0.74
2:L:252:ASN:O	2:L:255:VAL:HG22	1.87	0.74
3:M:276:LEU:HB3	3:M:301:PHE:CZ	2.23	0.74
3:N:216:ASP:O	3:N:218:VAL:N	2.21	0.74
3:O:131:LEU:O	3:O:133:GLU:N	2.21	0.74
3:O:332:VAL:HG22	3:O:343:TRP:CD1	2.22	0.74
3:P:233:LEU:HD12	3:P:268:ARG:O	1.88	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:R:56:ARG:HH11	3:R:56:ARG:HG3	1.53	0.74
4:W:50:LEU:HD23	4:W:51:GLU:N	2.03	0.74
4:X:8:PHE:HD2	4:X:8:PHE:H	1.33	0.74
1:A:74:ILE:H	1:A:74:ILE:HD12	1.51	0.74
1:A:152:TYR:O	1:A:155:LYS:HG2	1.86	0.74
2:B:230:MET:HE2	2:B:240:ILE:HD12	1.67	0.74
1:C:430:GLY:HA3	1:C:469:GLN:NE2	2.01	0.74
1:C:562:ARG:NE	2:D:522:ARG:HD2	2.01	0.74
2:D:493:LEU:C	2:D:495:LYS:H	1.94	0.74
1:E:293:VAL:HG11	1:E:313:LEU:HD21	1.70	0.74
1:K:27:ILE:HD12	1:K:61:TYR:CE2	2.22	0.74
2:L:292:LEU:C	2:L:294:ALA:H	1.93	0.74
2:L:486:THR:HG22	2:L:487:ALA:N	2.02	0.74
3:N:332:VAL:HG22	3:N:343:TRP:CD1	2.22	0.74
4:X:107:PHE:HD2	4:X:108:GLU:H	1.36	0.74
1:A:100:HIS:HE1	1:A:134:MET:HB2	1.49	0.74
1:A:463:ILE:HD11	1:A:476:ALA:HB1	1.70	0.74
2:F:55:VAL:O	2:F:58:MET:HB2	1.87	0.74
2:J:461:ASN:O	2:J:462:ALA:C	2.31	0.74
1:K:22:GLU:O	1:K:25:GLU:HB3	1.87	0.74
2:L:51:PHE:HB3	2:L:52:PRO:HD3	1.68	0.74
3:M:332:VAL:HG22	3:M:343:TRP:CD1	2.22	0.74
3:N:9:LEU:HD22	3:N:15:VAL:HA	1.69	0.74
4:S:8:PHE:HD2	4:S:8:PHE:H	1.33	0.74
4:U:11:GLN:NE2	4:U:11:GLN:N	2.32	0.74
4:U:50:LEU:HD23	4:U:51:GLU:N	2.03	0.74
2:B:203:SER:O	2:B:206:LYS:HB2	1.88	0.74
2:D:149:HIS:ND1	2:D:187:ILE:HG23	2.02	0.74
1:E:322:LYS:O	1:E:323:ASN:C	2.27	0.74
2:F:169:ILE:HG22	2:F:170:SER:N	2.03	0.74
1:G:22:GLU:O	1:G:25:GLU:HB3	1.87	0.74
1:G:430:GLY:HA3	1:G:469:GLN:NE2	2.01	0.74
1:G:463:ILE:HD11	1:G:476:ALA:HB1	1.70	0.74
3:N:233:LEU:HD12	3:N:268:ARG:O	1.88	0.74
3:N:276:LEU:HB3	3:N:301:PHE:CZ	2.22	0.74
3:V:233:LEU:HD12	3:V:268:ARG:O	1.88	0.74
4:W:11:GLN:NE2	4:W:11:GLN:N	2.32	0.74
2:B:55:VAL:O	2:B:58:MET:HB2	1.87	0.74
2:B:473:PHE:C	2:B:475:ASP:N	2.46	0.74
1:C:293:VAL:HG11	1:C:313:LEU:HD21	1.70	0.74
1:C:567:ASN:HD22	1:C:567:ASN:C	1.94	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:215:THR:HB	2:D:218:ALA:CB	2.18	0.74
2:H:412:VAL:O	2:H:415:LYS:HB3	1.88	0.74
3:R:131:LEU:O	3:R:133:GLU:N	2.21	0.74
4:U:30:LYS:HA	4:U:30:LYS:HZ2	1.53	0.74
2:B:252:ASN:O	2:B:255:VAL:HG22	1.87	0.73
2:D:55:VAL:O	2:D:58:MET:HB2	1.87	0.73
2:F:215:THR:HB	2:F:218:ALA:CB	2.18	0.73
2:F:292:LEU:C	2:F:294:ALA:H	1.93	0.73
2:H:436:LEU:HD13	2:H:436:LEU:C	2.12	0.73
2:J:149:HIS:ND1	2:J:187:ILE:HG23	2.03	0.73
2:J:381:ALA:HB2	2:J:391:CYS:SG	2.28	0.73
2:J:492:PHE:HB2	2:J:503:VAL:HG21	1.70	0.73
3:M:131:LEU:O	3:M:133:GLU:N	2.21	0.73
3:O:11:LEU:N	3:O:11:LEU:CD1	2.50	0.73
3:O:276:LEU:HB3	3:O:301:PHE:CZ	2.22	0.73
4:U:48:SER:HA	4:U:59:TYR:CE2	2.18	0.73
3:V:332:VAL:HG22	3:V:343:TRP:CD1	2.22	0.73
1:A:22:GLU:O	1:A:25:GLU:HB3	1.87	0.73
2:B:165:LEU:C	2:B:169:ILE:HG13	2.13	0.73
2:B:215:THR:HB	2:B:218:ALA:CB	2.18	0.73
1:C:74:ILE:HD12	1:C:74:ILE:H	1.51	0.73
2:D:203:SER:O	2:D:206:LYS:HB2	1.88	0.73
2:D:412:VAL:O	2:D:415:LYS:HB3	1.88	0.73
2:D:492:PHE:HB2	2:D:503:VAL:HG21	1.70	0.73
2:F:130:LEU:HD21	2:F:141:ALA:CB	2.14	0.73
2:F:436:LEU:C	2:F:436:LEU:HD13	2.13	0.73
2:F:461:ASN:O	2:F:462:ALA:C	2.31	0.73
2:H:257:LEU:HD11	2:H:567:ILE:HG22	1.69	0.73
2:H:492:PHE:HB2	2:H:503:VAL:HG21	1.70	0.73
2:L:165:LEU:C	2:L:169:ILE:HG13	2.13	0.73
3:N:299:SER:HB3	3:N:348:PHE:CE2	2.20	0.73
3:V:86:LYS:O	3:V:89:GLN:HB3	1.88	0.73
3:V:131:LEU:O	3:V:133:GLU:N	2.21	0.73
2:B:295:GLU:O	2:B:299:GLN:HG3	1.89	0.73
2:B:412:VAL:O	2:B:415:LYS:HB3	1.88	0.73
1:C:322:LYS:O	1:C:323:ASN:C	2.27	0.73
2:D:130:LEU:HD21	2:D:141:ALA:CB	2.14	0.73
1:E:19:THR:HG22	1:E:21:ALA:H	1.54	0.73
2:H:149:HIS:ND1	2:H:187:ILE:HG23	2.02	0.73
2:H:169:ILE:HG22	2:H:170:SER:N	2.03	0.73
2:J:55:VAL:O	2:J:58:MET:HB2	1.87	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:252:ASN:O	2:J:255:VAL:HG22	1.87	0.73
2:J:377:ILE:HG21	2:J:395:LEU:HD21	1.69	0.73
2:L:381:ALA:HB2	2:L:391:CYS:SG	2.28	0.73
3:N:11:LEU:N	3:N:11:LEU:CD1	2.50	0.73
3:N:131:LEU:O	3:N:133:GLU:N	2.21	0.73
3:O:56:ARG:HH11	3:O:56:ARG:HG3	1.53	0.73
3:O:86:LYS:O	3:O:89:GLN:HB3	1.88	0.73
3:V:56:ARG:HH11	3:V:56:ARG:HG3	1.53	0.73
1:A:230:GLY:HA3	2:D:461:ASN:HD21	1.53	0.73
2:D:310:VAL:HG12	2:D:317:LEU:HD21	1.69	0.73
2:D:381:ALA:HB2	2:D:391:CYS:SG	2.28	0.73
1:G:208:MET:HE3	1:G:212:PHE:HD1	1.51	0.73
2:H:381:ALA:HB2	2:H:391:CYS:SG	2.28	0.73
1:I:293:VAL:HG11	1:I:313:LEU:HD21	1.70	0.73
2:J:436:LEU:C	2:J:436:LEU:HD13	2.12	0.73
1:K:463:ILE:HD11	1:K:476:ALA:HB1	1.70	0.73
2:L:169:ILE:HG22	2:L:170:SER:N	2.03	0.73
2:L:493:LEU:C	2:L:495:LYS:H	1.94	0.73
3:N:86:LYS:O	3:N:89:GLN:HB3	1.88	0.73
3:P:56:ARG:HG3	3:P:56:ARG:HH11	1.53	0.73
3:P:306:THR:CG2	3:P:349:PRO:HA	2.19	0.73
3:R:9:LEU:HD22	3:R:15:VAL:HA	1.69	0.73
1:C:97:GLN:HA	1:C:100:HIS:HB3	1.70	0.73
2:D:165:LEU:C	2:D:169:ILE:HG13	2.13	0.73
2:F:252:ASN:O	2:F:255:VAL:HG22	1.87	0.73
2:H:165:LEU:C	2:H:169:ILE:HG13	2.13	0.73
1:I:19:THR:HG22	1:I:21:ALA:H	1.53	0.73
1:I:473:VAL:HG23	1:I:474:GLN:N	2.02	0.73
2:J:215:THR:HB	2:J:218:ALA:CB	2.18	0.73
2:J:493:LEU:C	2:J:495:LYS:H	1.94	0.73
2:J:564:ILE:O	2:J:567:ILE:HG13	1.89	0.73
2:L:295:GLU:O	2:L:299:GLN:HG3	1.89	0.73
3:R:276:LEU:HB3	3:R:301:PHE:CZ	2.23	0.73
1:A:208:MET:HE3	1:A:212:PHE:HD1	1.51	0.73
1:C:270:ILE:HG23	1:C:271:LEU:HD22	1.70	0.73
1:C:463:ILE:HD11	1:C:476:ALA:HB1	1.70	0.73
2:D:169:ILE:HG22	2:D:170:SER:N	2.03	0.73
2:D:564:ILE:O	2:D:567:ILE:HG13	1.89	0.73
2:F:145:VAL:HG11	2:F:165:LEU:HD11	1.69	0.73
2:F:478:THR:HA	2:F:481:GLN:NE2	2.04	0.73
1:G:19:THR:HG22	1:G:21:ALA:H	1.53	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:97:GLN:HA	1:G:100:HIS:HB3	1.70	0.73
1:G:475:VAL:O	1:G:478:TRP:HB3	1.89	0.73
1:K:19:THR:HG22	1:K:21:ALA:H	1.54	0.73
2:L:310:VAL:HG12	2:L:317:LEU:HD21	1.69	0.73
2:L:564:ILE:O	2:L:567:ILE:HG13	1.89	0.73
3:O:216:ASP:O	3:O:218:VAL:N	2.20	0.73
3:O:399:GLU:HG3	3:O:400:LYS:N	2.03	0.73
3:R:399:GLU:HG3	3:R:400:LYS:N	2.03	0.73
4:T:50:LEU:HD23	4:T:51:GLU:N	2.03	0.73
1:A:233:PRO:HD2	2:D:464:GLU:OE2	1.89	0.73
1:A:293:VAL:HG11	1:A:313:LEU:HD21	1.70	0.73
1:A:475:VAL:O	1:A:478:TRP:HB3	1.89	0.73
2:B:418:PHE:CE1	2:B:425:TYR:HB2	2.24	0.73
1:G:293:VAL:HG11	1:G:313:LEU:HD21	1.70	0.73
2:H:100:PRO:HA	2:H:103:ARG:HG2	1.70	0.73
2:H:145:VAL:HG11	2:H:165:LEU:HD11	1.69	0.73
2:H:564:ILE:O	2:H:567:ILE:HG13	1.89	0.73
2:J:100:PRO:HA	2:J:103:ARG:HG2	1.71	0.73
2:J:473:PHE:C	2:J:475:ASP:N	2.45	0.73
1:K:270:ILE:HG23	1:K:271:LEU:HD22	1.71	0.73
3:O:233:LEU:HD12	3:O:268:ARG:O	1.88	0.73
3:R:233:LEU:HD12	3:R:268:ARG:O	1.88	0.73
4:X:76:ASN:O	4:X:79:ILE:HG22	1.89	0.73
2:B:492:PHE:HB2	2:B:503:VAL:HG21	1.70	0.73
2:F:100:PRO:HA	2:F:103:ARG:HG2	1.70	0.73
2:J:169:ILE:HG22	2:J:170:SER:N	2.03	0.73
2:L:182:ALA:O	2:L:183:ALA:C	2.32	0.73
2:L:478:THR:HA	2:L:481:GLN:NE2	2.04	0.73
3:P:86:LYS:O	3:P:89:GLN:HB3	1.88	0.73
4:Q:76:ASN:O	4:Q:79:ILE:HG22	1.89	0.73
1:A:97:GLN:HA	1:A:100:HIS:HB3	1.70	0.73
1:E:97:GLN:C	1:E:100:HIS:HB3	2.14	0.73
1:E:270:ILE:HG23	1:E:271:LEU:HD22	1.71	0.73
2:F:182:ALA:O	2:F:183:ALA:C	2.32	0.73
2:F:412:VAL:O	2:F:415:LYS:HB3	1.88	0.73
2:F:418:PHE:CE1	2:F:425:TYR:HB2	2.24	0.73
2:H:203:SER:O	2:H:206:LYS:HB2	1.88	0.73
2:H:478:THR:HA	2:H:481:GLN:NE2	2.04	0.73
1:I:97:GLN:HA	1:I:100:HIS:HB3	1.70	0.73
2:J:165:LEU:C	2:J:169:ILE:HG13	2.13	0.73
1:K:8:ARG:HD2	3:P:337:GLU:CB	2.19	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:412:VAL:O	2:L:415:LYS:HB3	1.88	0.73
3:V:306:THR:CG2	3:V:349:PRO:HA	2.19	0.73
2:B:139:LYS:CD	2:B:175:MET:HE2	2.13	0.73
2:D:461:ASN:O	2:D:462:ALA:C	2.31	0.73
2:F:165:LEU:C	2:F:169:ILE:HG13	2.13	0.73
2:F:381:ALA:HB2	2:F:391:CYS:SG	2.28	0.73
2:J:321:MET:C	2:J:323:VAL:H	1.96	0.73
3:M:233:LEU:HD12	3:M:268:ARG:O	1.88	0.73
4:Q:16:LEU:HD13	4:Q:111:TYR:CZ	2.24	0.73
4:S:76:ASN:O	4:S:79:ILE:HG22	1.89	0.73
2:B:321:MET:C	2:B:323:VAL:H	1.96	0.72
2:B:564:ILE:O	2:B:567:ILE:HG13	1.89	0.72
1:C:22:GLU:O	1:C:25:GLU:HB3	1.87	0.72
2:D:418:PHE:CE1	2:D:425:TYR:HB2	2.24	0.72
1:E:100:HIS:HE1	1:E:134:MET:HB2	1.49	0.72
2:J:347:SER:N	2:J:350:ASN:ND2	2.33	0.72
2:J:418:PHE:CE1	2:J:425:TYR:HB2	2.24	0.72
2:J:555:ILE:HG22	2:J:556:GLU:N	2.04	0.72
1:K:567:ASN:HD22	1:K:567:ASN:C	1.94	0.72
2:L:418:PHE:CE1	2:L:425:TYR:HB2	2.24	0.72
3:O:415:ASN:CG	3:O:416:GLY:N	2.45	0.72
3:V:415:ASN:CG	3:V:416:GLY:N	2.45	0.72
2:D:295:GLU:O	2:D:299:GLN:HG3	1.89	0.72
2:F:203:SER:O	2:F:206:LYS:HB2	1.88	0.72
1:G:97:GLN:C	1:G:100:HIS:HB3	2.14	0.72
2:H:215:THR:HB	2:H:218:ALA:CB	2.18	0.72
2:H:295:GLU:O	2:H:299:GLN:HG3	1.89	0.72
2:H:310:VAL:HG12	2:H:317:LEU:HD21	1.69	0.72
2:H:486:THR:HG22	2:H:487:ALA:N	2.02	0.72
2:J:147:LYS:HE2	3:R:120:PHE:HB2	1.72	0.72
2:J:412:VAL:O	2:J:415:LYS:HB3	1.88	0.72
2:L:373:ALA:O	2:L:376:ALA:HB3	1.89	0.72
2:L:555:ILE:HG22	2:L:556:GLU:N	2.04	0.72
4:U:16:LEU:HD13	4:U:111:TYR:CZ	2.24	0.72
4:U:76:ASN:O	4:U:79:ILE:HG22	1.89	0.72
2:B:381:ALA:HB2	2:B:391:CYS:SG	2.28	0.72
1:C:19:THR:HG22	1:C:21:ALA:H	1.53	0.72
2:F:215:THR:O	2:F:216:GLU:C	2.32	0.72
2:F:564:ILE:O	2:F:567:ILE:HG13	1.89	0.72
1:G:270:ILE:HG23	1:G:271:LEU:HD22	1.71	0.72
2:H:473:PHE:C	2:H:475:ASP:N	2.46	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:57:HIS:O	1:K:59:LEU:N	2.23	0.72
2:L:203:SER:O	2:L:206:LYS:HB2	1.88	0.72
2:L:215:THR:O	2:L:216:GLU:C	2.33	0.72
2:L:347:SER:O	2:L:351:ILE:HG13	1.90	0.72
2:L:492:PHE:HB2	2:L:503:VAL:HG21	1.70	0.72
3:M:56:ARG:HH11	3:M:56:ARG:HG3	1.53	0.72
3:M:60:ILE:HD11	3:M:67:LEU:HD23	1.72	0.72
4:S:50:LEU:HD23	4:S:51:GLU:N	2.03	0.72
2:B:86:MET:HE2	3:N:237:LYS:HB3	1.72	0.72
2:B:215:THR:O	2:B:216:GLU:C	2.32	0.72
2:D:257:LEU:HD11	2:D:567:ILE:HG22	1.69	0.72
2:D:321:MET:C	2:D:323:VAL:H	1.96	0.72
2:D:347:SER:O	2:D:351:ILE:HG13	1.90	0.72
2:F:188:ALA:HB1	2:F:195:ASN:HB3	1.72	0.72
2:F:347:SER:O	2:F:351:ILE:HG13	1.90	0.72
1:G:57:HIS:O	1:G:59:LEU:N	2.23	0.72
2:H:295:GLU:C	2:H:298:PRO:HD2	2.14	0.72
2:H:418:PHE:CE1	2:H:425:TYR:HB2	2.24	0.72
1:I:208:MET:HE3	1:I:212:PHE:HD1	1.51	0.72
1:I:475:VAL:O	1:I:478:TRP:HB3	1.89	0.72
2:J:347:SER:O	2:J:351:ILE:HG13	1.90	0.72
2:J:373:ALA:O	2:J:376:ALA:HB3	1.89	0.72
1:K:293:VAL:HG11	1:K:313:LEU:HD21	1.70	0.72
1:K:475:VAL:O	1:K:478:TRP:HB3	1.89	0.72
2:L:100:PRO:HA	2:L:103:ARG:HG2	1.70	0.72
2:L:215:THR:HB	2:L:218:ALA:CB	2.18	0.72
3:M:399:GLU:HG3	3:M:400:LYS:N	2.03	0.72
3:N:306:THR:CG2	3:N:349:PRO:HA	2.19	0.72
3:N:399:GLU:HG3	3:N:400:LYS:N	2.02	0.72
3:O:306:THR:CG2	3:O:349:PRO:HA	2.19	0.72
3:R:86:LYS:O	3:R:89:GLN:HB3	1.88	0.72
3:R:306:THR:CG2	3:R:349:PRO:HA	2.19	0.72
3:R:327:THR:HG22	3:R:329:VAL:N	2.04	0.72
3:V:327:THR:HG22	3:V:329:VAL:N	2.04	0.72
3:V:399:GLU:HG3	3:V:400:LYS:N	2.02	0.72
1:E:585:PRO:HG2	2:F:524:TYR:CE1	2.25	0.72
2:F:259:ALA:O	2:F:262:VAL:HG22	1.90	0.72
2:H:461:ASN:O	2:H:462:ALA:C	2.31	0.72
4:T:16:LEU:HD13	4:T:111:TYR:CZ	2.24	0.72
1:A:97:GLN:C	1:A:100:HIS:HB3	2.14	0.72
1:C:97:GLN:C	1:C:100:HIS:HB3	2.14	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:475:VAL:O	1:C:478:TRP:HB3	1.89	0.72
2:D:215:THR:O	2:D:216:GLU:C	2.32	0.72
1:E:475:VAL:O	1:E:478:TRP:HB3	1.89	0.72
2:F:295:GLU:C	2:F:298:PRO:HD2	2.14	0.72
2:H:570:LEU:HD12	3:P:74:ASN:HA	1.72	0.72
2:J:203:SER:O	2:J:206:LYS:HB2	1.88	0.72
2:J:295:GLU:O	2:J:299:GLN:HG3	1.89	0.72
3:O:60:ILE:HD11	3:O:67:LEU:HD23	1.72	0.72
3:P:216:ASP:O	3:P:218:VAL:N	2.21	0.72
3:V:60:ILE:HD11	3:V:67:LEU:HD23	1.72	0.72
2:B:347:SER:O	2:B:351:ILE:HG13	1.90	0.72
2:B:555:ILE:HG22	2:B:556:GLU:N	2.04	0.72
1:C:54:LEU:HD22	1:C:91:LEU:HD12	1.71	0.72
2:D:100:PRO:HA	2:D:103:ARG:HG2	1.70	0.72
1:E:97:GLN:HA	1:E:100:HIS:HB3	1.70	0.72
1:E:463:ILE:HD11	1:E:476:ALA:HB1	1.70	0.72
2:J:259:ALA:O	2:J:262:VAL:HG22	1.90	0.72
2:L:495:LYS:O	2:L:496:PRO:C	2.31	0.72
3:N:285:LYS:O	3:N:286:HIS:HB2	1.90	0.72
2:B:295:GLU:C	2:B:298:PRO:HD2	2.14	0.72
2:B:461:ASN:O	2:B:462:ALA:C	2.31	0.72
2:F:492:PHE:HB2	2:F:503:VAL:HG21	1.70	0.72
2:F:570:LEU:HD12	3:O:74:ASN:HA	1.72	0.72
2:H:347:SER:O	2:H:351:ILE:HG13	1.90	0.72
2:H:493:LEU:C	2:H:495:LYS:H	1.94	0.72
1:I:57:HIS:O	1:I:59:LEU:N	2.23	0.72
2:J:182:ALA:O	2:J:183:ALA:C	2.32	0.72
2:L:295:GLU:C	2:L:298:PRO:HD2	2.14	0.72
3:M:306:THR:CG2	3:M:349:PRO:HA	2.19	0.72
1:A:19:THR:HG22	1:A:21:ALA:H	1.53	0.72
1:C:478:TRP:CZ2	1:C:482:GLU:HG3	2.25	0.72
1:G:208:MET:O	1:G:212:PHE:HB2	1.90	0.72
2:H:377:ILE:HG21	2:H:395:LEU:HD21	1.69	0.72
1:I:270:ILE:HG23	1:I:271:LEU:HD22	1.70	0.72
2:L:461:ASN:O	2:L:462:ALA:C	2.31	0.72
3:M:86:LYS:O	3:M:89:GLN:HB3	1.88	0.72
3:P:60:ILE:HD11	3:P:67:LEU:HD23	1.72	0.72
4:T:76:ASN:O	4:T:79:ILE:HG22	1.89	0.72
4:X:11:GLN:NE2	4:X:11:GLN:N	2.32	0.72
4:X:16:LEU:HD13	4:X:111:TYR:CZ	2.24	0.72
1:A:585:PRO:HG2	2:B:524:TYR:CE1	2.25	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:373:ALA:O	2:F:376:ALA:HB3	1.89	0.72
1:G:54:LEU:HD22	1:G:91:LEU:HD12	1.71	0.72
1:G:478:TRP:CZ2	1:G:482:GLU:HG3	2.25	0.72
2:H:321:MET:C	2:H:323:VAL:H	1.96	0.72
1:K:54:LEU:HD22	1:K:91:LEU:HD12	1.71	0.72
1:C:583:ARG:HB2	2:D:528:ARG:NH1	2.05	0.71
2:D:569:THR:HG22	2:D:571:ALA:H	1.55	0.71
1:G:585:PRO:HG2	2:H:524:TYR:CE1	2.25	0.71
2:H:569:THR:HG22	2:H:571:ALA:H	1.55	0.71
1:I:585:PRO:HG2	2:J:524:TYR:CE1	2.25	0.71
2:J:478:THR:HA	2:J:481:GLN:NE2	2.04	0.71
2:J:570:LEU:HD12	3:R:74:ASN:HA	1.72	0.71
2:B:285:ALA:CB	2:B:286:PRO:HD3	2.20	0.71
2:D:188:ALA:HB1	2:D:195:ASN:HB3	1.72	0.71
2:D:259:ALA:O	2:D:262:VAL:HG22	1.90	0.71
2:D:478:THR:HA	2:D:481:GLN:NE2	2.04	0.71
2:F:522:ARG:O	2:F:526:TYR:CD1	2.43	0.71
2:H:452:VAL:HG13	2:H:453:GLY:N	2.06	0.71
2:H:522:ARG:O	2:H:526:TYR:CD1	2.43	0.71
2:H:569:THR:H	2:H:572:SER:HB2	1.55	0.71
1:K:478:TRP:CZ2	1:K:482:GLU:HG3	2.25	0.71
2:L:255:VAL:HG23	2:L:256:VAL:N	2.05	0.71
3:N:295:VAL:HG23	3:N:356:MET:HB3	1.72	0.71
3:P:11:LEU:N	3:P:11:LEU:CD1	2.50	0.71
3:P:380:PHE:HE1	3:P:414:GLN:C	1.98	0.71
4:W:10:ARG:NH1	4:W:61:ARG:HE	1.88	0.71
4:W:16:LEU:HD13	4:W:111:TYR:CZ	2.24	0.71
1:A:54:LEU:HD22	1:A:91:LEU:HD12	1.71	0.71
1:A:562:ARG:NE	2:B:522:ARG:HD2	2.01	0.71
2:B:47:VAL:HG23	2:B:76:TYR:OH	1.91	0.71
2:B:169:ILE:HG22	2:B:170:SER:N	2.03	0.71
1:C:57:HIS:O	1:C:59:LEU:N	2.23	0.71
2:D:495:LYS:O	2:D:496:PRO:C	2.31	0.71
2:F:295:GLU:O	2:F:299:GLN:HG3	1.89	0.71
2:H:182:ALA:O	2:H:183:ALA:C	2.32	0.71
2:J:295:GLU:C	2:J:298:PRO:HD2	2.14	0.71
2:J:343:ILE:O	2:J:345:LEU:N	2.24	0.71
1:K:97:GLN:C	1:K:100:HIS:HB3	2.14	0.71
3:N:327:THR:HG22	3:N:329:VAL:N	2.04	0.71
3:R:60:ILE:HD11	3:R:67:LEU:HD23	1.72	0.71
1:A:270:ILE:HG23	1:A:271:LEU:HD22	1.70	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:100:PRO:HA	2:B:103:ARG:HG2	1.71	0.71
2:B:259:ALA:O	2:B:262:VAL:HG22	1.90	0.71
2:B:569:THR:HG22	2:B:571:ALA:H	1.55	0.71
1:C:567:ASN:C	1:C:567:ASN:ND2	2.48	0.71
1:C:585:PRO:HG2	2:D:524:TYR:CE1	2.25	0.71
2:D:295:GLU:C	2:D:298:PRO:HD2	2.14	0.71
2:F:484:LEU:O	2:F:488:ILE:HG12	1.91	0.71
2:L:47:VAL:HG23	2:L:76:TYR:OH	1.91	0.71
2:L:569:THR:HG22	2:L:571:ALA:H	1.55	0.71
4:S:50:LEU:HD23	4:S:51:GLU:C	2.16	0.71
3:V:295:VAL:HG23	3:V:356:MET:HB3	1.72	0.71
4:W:76:ASN:O	4:W:79:ILE:HG22	1.89	0.71
1:A:57:HIS:O	1:A:59:LEU:N	2.23	0.71
1:A:567:ASN:C	1:A:567:ASN:ND2	2.48	0.71
1:E:6:ARG:CD	3:M:337:GLU:HG2	2.18	0.71
2:J:215:THR:O	2:J:216:GLU:C	2.32	0.71
1:K:208:MET:O	1:K:212:PHE:HB2	1.90	0.71
2:L:484:LEU:O	2:L:488:ILE:HG12	1.91	0.71
3:M:285:LYS:O	3:M:286:HIS:HB2	1.90	0.71
3:O:202:VAL:CG1	3:O:204:LEU:HG	2.21	0.71
3:O:295:VAL:HG23	3:O:356:MET:HB3	1.72	0.71
3:O:327:THR:HG22	3:O:329:VAL:N	2.04	0.71
2:B:188:ALA:HB1	2:B:195:ASN:HB3	1.72	0.71
2:B:484:LEU:O	2:B:488:ILE:HG12	1.91	0.71
2:D:147:LYS:HE2	3:N:120:PHE:HB2	1.72	0.71
2:D:182:ALA:O	2:D:183:ALA:C	2.32	0.71
2:F:217:TRP:HE3	2:F:217:TRP:H	1.39	0.71
1:I:54:LEU:HD22	1:I:91:LEU:HD12	1.71	0.71
2:J:217:TRP:HE3	2:J:217:TRP:H	1.39	0.71
1:K:97:GLN:HA	1:K:100:HIS:HB3	1.70	0.71
2:L:259:ALA:O	2:L:262:VAL:HG22	1.90	0.71
4:S:16:LEU:HD13	4:S:111:TYR:CZ	2.24	0.71
4:X:127:SER:CB	4:X:130:SER:HB2	2.21	0.71
1:A:561:GLN:HG2	2:B:522:ARG:NH2	2.06	0.71
2:B:373:ALA:O	2:B:376:ALA:HB3	1.89	0.71
2:B:569:THR:H	2:B:572:SER:HB2	1.55	0.71
2:D:343:ILE:O	2:D:345:LEU:N	2.24	0.71
1:E:57:HIS:O	1:E:59:LEU:N	2.23	0.71
2:F:569:THR:H	2:F:572:SER:HB2	1.55	0.71
2:H:147:LYS:HE2	3:P:120:PHE:HB2	1.72	0.71
2:H:495:LYS:O	2:H:496:PRO:C	2.31	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:463:ILE:HD11	1:I:476:ALA:HB1	1.70	0.71
2:J:47:VAL:HG23	2:J:76:TYR:OH	1.91	0.71
3:M:178:ALA:HA	3:M:414:GLN:O	1.91	0.71
3:M:202:VAL:CG1	3:M:204:LEU:HG	2.21	0.71
3:N:56:ARG:HH11	3:N:56:ARG:HG3	1.53	0.71
3:N:202:VAL:CG1	3:N:204:LEU:HG	2.21	0.71
3:P:178:ALA:HA	3:P:414:GLN:O	1.91	0.71
3:P:327:THR:HG22	3:P:329:VAL:N	2.04	0.71
4:T:30:LYS:HZ1	4:T:30:LYS:HA	1.55	0.71
1:A:212:PHE:CE2	1:A:263:SER:HB3	2.26	0.71
1:A:489:SER:H	1:A:500:VAL:HG11	1.56	0.71
1:A:583:ARG:HB2	2:B:528:ARG:NH1	2.05	0.71
1:C:208:MET:O	1:C:212:PHE:HB2	1.90	0.71
1:C:489:SER:H	1:C:500:VAL:HG11	1.56	0.71
2:D:570:LEU:HD12	3:N:74:ASN:HA	1.72	0.71
1:E:561:GLN:HG2	2:F:522:ARG:NH2	2.06	0.71
1:E:583:ARG:HB2	2:F:528:ARG:NH1	2.05	0.71
2:H:343:ILE:O	2:H:345:LEU:N	2.24	0.71
1:I:97:GLN:C	1:I:100:HIS:HB3	2.14	0.71
1:I:478:TRP:CZ2	1:I:482:GLU:HG3	2.25	0.71
1:K:208:MET:HE3	1:K:212:PHE:HD1	1.51	0.71
1:K:585:PRO:HG2	2:L:524:TYR:CE1	2.25	0.71
2:L:180:ARG:O	2:L:183:ALA:HB3	1.91	0.71
2:L:570:LEU:HD12	3:V:74:ASN:HA	1.72	0.71
3:M:380:PHE:HE1	3:M:414:GLN:C	1.98	0.71
3:N:178:ALA:HA	3:N:414:GLN:O	1.91	0.71
3:O:380:PHE:HE1	3:O:414:GLN:C	1.98	0.71
3:R:178:ALA:HA	3:R:414:GLN:O	1.91	0.71
4:S:127:SER:CB	4:S:130:SER:HB2	2.21	0.71
3:V:285:LYS:O	3:V:286:HIS:HB2	1.90	0.71
4:W:127:SER:CB	4:W:130:SER:HB2	2.21	0.71
2:D:180:ARG:O	2:D:183:ALA:HB3	1.91	0.71
2:F:180:ARG:O	2:F:183:ALA:HB3	1.91	0.71
1:G:212:PHE:CE2	1:G:263:SER:HB3	2.26	0.71
1:G:583:ARG:HB2	2:H:528:ARG:NH1	2.06	0.71
2:H:180:ARG:O	2:H:183:ALA:HB3	1.91	0.71
2:H:259:ALA:O	2:H:262:VAL:HG22	1.90	0.71
1:I:208:MET:O	1:I:212:PHE:HB2	1.90	0.71
1:I:567:ASN:C	1:I:567:ASN:ND2	2.48	0.71
2:L:188:ALA:HB1	2:L:195:ASN:HB3	1.72	0.71
2:L:569:THR:H	2:L:572:SER:HB2	1.55	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:S:10:ARG:NH1	4:S:61:ARG:HE	1.88	0.71
3:V:178:ALA:HA	3:V:414:GLN:O	1.91	0.71
3:V:380:PHE:HE1	3:V:414:GLN:C	1.98	0.71
2:D:347:SER:N	2:D:350:ASN:ND2	2.33	0.71
2:F:495:LYS:O	2:F:496:PRO:C	2.31	0.71
1:G:283:ASN:O	1:G:284:VAL:C	2.34	0.71
1:I:583:ARG:HB2	2:J:528:ARG:NH1	2.05	0.71
2:J:484:LEU:O	2:J:488:ILE:HG12	1.91	0.71
2:L:230:MET:HG2	2:L:266:PHE:HD2	1.56	0.71
4:Q:50:LEU:HD23	4:Q:51:GLU:C	2.16	0.71
4:U:50:LEU:HD23	4:U:51:GLU:C	2.16	0.71
4:W:50:LEU:HD23	4:W:51:GLU:C	2.16	0.71
4:X:10:ARG:NH1	4:X:61:ARG:HE	1.88	0.71
2:B:182:ALA:O	2:B:183:ALA:C	2.32	0.70
2:D:452:VAL:HG13	2:D:453:GLY:N	2.06	0.70
1:E:283:ASN:O	1:E:284:VAL:C	2.34	0.70
2:F:57:CYS:SG	2:F:65:LEU:HD11	2.31	0.70
1:G:561:GLN:HG2	2:H:522:ARG:NH2	2.06	0.70
2:H:188:ALA:HB1	2:H:195:ASN:HB3	1.72	0.70
2:H:433:CYS:O	2:H:434:GLU:C	2.34	0.70
2:H:484:LEU:O	2:H:488:ILE:HG12	1.91	0.70
2:J:57:CYS:SG	2:J:65:LEU:HD11	2.31	0.70
2:J:569:THR:HG22	2:J:571:ALA:H	1.55	0.70
3:N:60:ILE:HD11	3:N:67:LEU:HD23	1.72	0.70
3:O:178:ALA:HA	3:O:414:GLN:O	1.91	0.70
3:P:285:LYS:O	3:P:286:HIS:HB2	1.90	0.70
3:R:295:VAL:HG23	3:R:356:MET:HB3	1.72	0.70
4:T:10:ARG:NH1	4:T:61:ARG:HE	1.88	0.70
3:V:11:LEU:N	3:V:11:LEU:CD1	2.50	0.70
2:D:255:VAL:HG23	2:D:256:VAL:N	2.05	0.70
2:D:373:ALA:O	2:D:376:ALA:HB3	1.89	0.70
2:D:433:CYS:O	2:D:434:GLU:C	2.34	0.70
1:E:54:LEU:HD22	1:E:91:LEU:HD12	1.71	0.70
1:E:179:THR:HG22	1:E:180:LYS:N	2.06	0.70
1:E:368:LEU:O	1:E:369:SER:C	2.34	0.70
2:H:555:ILE:HG22	2:H:556:GLU:N	2.04	0.70
1:I:97:GLN:O	1:I:100:HIS:HB3	1.92	0.70
2:J:495:LYS:O	2:J:496:PRO:C	2.31	0.70
1:K:179:THR:HG22	1:K:180:LYS:N	2.06	0.70
3:M:295:VAL:HG23	3:M:356:MET:HB3	1.72	0.70
3:O:285:LYS:O	3:O:286:HIS:HB2	1.90	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:Q:108:GLU:HG3	4:Q:109:LYS:N	2.06	0.70
4:T:127:SER:CB	4:T:130:SER:HB2	2.21	0.70
2:B:343:ILE:O	2:B:345:LEU:N	2.24	0.70
2:D:285:ALA:CB	2:D:286:PRO:HD3	2.20	0.70
2:F:147:LYS:HE2	3:O:120:PHE:HB2	1.72	0.70
2:F:569:THR:HG22	2:F:571:ALA:H	1.55	0.70
2:H:405:TYR:HD1	2:H:406:VAL:N	1.89	0.70
2:J:180:ARG:O	2:J:183:ALA:HB3	1.91	0.70
2:J:230:MET:HG2	2:J:266:PHE:HD2	1.56	0.70
2:J:569:THR:H	2:J:572:SER:HB2	1.55	0.70
1:K:583:ARG:HB2	2:L:528:ARG:NH1	2.05	0.70
2:L:341:ILE:O	2:L:342:MET:C	2.34	0.70
2:L:343:ILE:O	2:L:345:LEU:N	2.24	0.70
3:P:202:VAL:CG1	3:P:204:LEU:HG	2.21	0.70
4:T:108:GLU:HG3	4:T:109:LYS:N	2.07	0.70
1:A:283:ASN:O	1:A:284:VAL:C	2.34	0.70
2:B:478:THR:HA	2:B:481:GLN:NE2	2.04	0.70
2:D:47:VAL:HG23	2:D:76:TYR:OH	1.91	0.70
2:D:341:ILE:O	2:D:342:MET:C	2.34	0.70
1:E:97:GLN:O	1:E:100:HIS:HB3	1.92	0.70
1:E:520:SER:HB2	1:E:556:ASP:OD1	1.91	0.70
2:F:321:MET:C	2:F:323:VAL:H	1.96	0.70
2:F:343:ILE:O	2:F:345:LEU:N	2.24	0.70
1:G:396:PHE:O	1:G:397:LYS:C	2.35	0.70
2:H:57:CYS:SG	2:H:65:LEU:HD11	2.31	0.70
2:H:373:ALA:O	2:H:376:ALA:HB3	1.89	0.70
1:I:283:ASN:O	1:I:284:VAL:C	2.34	0.70
2:L:321:MET:C	2:L:323:VAL:H	1.96	0.70
2:L:405:TYR:HD1	2:L:406:VAL:N	1.89	0.70
2:L:570:LEU:HD21	3:V:75:ALA:HB3	1.74	0.70
3:M:327:THR:HG22	3:M:329:VAL:N	2.04	0.70
3:N:65:LEU:HD13	3:N:103:ILE:HD11	1.73	0.70
3:N:380:PHE:HE1	3:N:414:GLN:C	1.98	0.70
4:S:11:GLN:NE2	4:S:11:GLN:N	2.32	0.70
4:X:76:ASN:C	4:X:76:ASN:ND2	2.44	0.70
1:A:368:LEU:O	1:A:369:SER:C	2.35	0.70
1:A:441:LEU:HD23	1:A:441:LEU:C	2.17	0.70
2:B:57:CYS:SG	2:B:65:LEU:HD11	2.31	0.70
2:B:180:ARG:O	2:B:183:ALA:HB3	1.91	0.70
2:B:341:ILE:O	2:B:342:MET:C	2.34	0.70
2:D:351:ILE:HA	2:D:354:VAL:HB	1.74	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:396:PHE:O	1:E:397:LYS:C	2.35	0.70
1:E:478:TRP:CZ2	1:E:482:GLU:HG3	2.25	0.70
2:F:285:ALA:HB3	2:F:286:PRO:CD	2.22	0.70
2:F:433:CYS:O	2:F:434:GLU:C	2.34	0.70
2:F:555:ILE:HG22	2:F:556:GLU:N	2.05	0.70
2:H:215:THR:O	2:H:216:GLU:C	2.32	0.70
1:K:212:PHE:CE2	1:K:263:SER:HB3	2.26	0.70
3:M:416:GLY:C	3:M:418:TYR:H	2.00	0.70
4:Q:10:ARG:NH1	4:Q:61:ARG:HE	1.88	0.70
2:B:405:TYR:HD1	2:B:406:VAL:N	1.89	0.70
1:C:441:LEU:HD23	1:C:441:LEU:C	2.16	0.70
1:E:208:MET:O	1:E:212:PHE:HB2	1.90	0.70
1:E:212:PHE:CE2	1:E:263:SER:HB3	2.26	0.70
2:F:570:LEU:HD21	3:O:75:ALA:HB3	1.74	0.70
1:G:567:ASN:C	1:G:567:ASN:ND2	2.48	0.70
2:H:341:ILE:O	2:H:342:MET:C	2.34	0.70
1:I:179:THR:HG22	1:I:180:LYS:N	2.06	0.70
2:J:405:TYR:HD1	2:J:406:VAL:N	1.89	0.70
2:L:299:GLN:C	2:L:302:PRO:HG2	2.17	0.70
4:Q:127:SER:CB	4:Q:130:SER:HB2	2.21	0.70
3:R:380:PHE:HE1	3:R:414:GLN:C	1.98	0.70
1:A:520:SER:HB2	1:A:556:ASP:OD1	1.91	0.70
2:B:351:ILE:HA	2:B:354:VAL:HB	1.74	0.70
2:B:495:LYS:O	2:B:496:PRO:C	2.31	0.70
1:C:97:GLN:O	1:C:100:HIS:HB3	1.92	0.70
1:C:396:PHE:O	1:C:397:LYS:C	2.35	0.70
1:C:520:SER:HB2	1:C:556:ASP:OD1	1.91	0.70
2:D:118:ILE:HG13	2:D:122:LEU:HD22	1.74	0.70
1:E:404:ILE:O	1:E:405:PHE:C	2.35	0.70
2:F:230:MET:HG2	2:F:266:PHE:HD2	1.56	0.70
1:G:97:GLN:O	1:G:100:HIS:HB3	1.92	0.70
2:H:106:ALA:O	2:H:110:MET:HG2	1.92	0.70
2:H:217:TRP:H	2:H:217:TRP:HE3	1.39	0.70
2:H:230:MET:HG2	2:H:266:PHE:HD2	1.56	0.70
2:H:299:GLN:C	2:H:302:PRO:HG2	2.17	0.70
2:H:351:ILE:HA	2:H:354:VAL:HB	1.74	0.70
1:I:368:LEU:O	1:I:369:SER:C	2.35	0.70
2:J:106:ALA:O	2:J:110:MET:HG2	1.92	0.70
2:B:307:ASN:HD21	2:B:344:ARG:HH12	1.39	0.70
2:B:570:LEU:HD12	3:M:74:ASN:HA	1.72	0.70
2:D:57:CYS:SG	2:D:65:LEU:HD11	2.31	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:307:ASN:HD21	2:D:344:ARG:HH12	1.39	0.70
1:E:489:SER:H	1:E:500:VAL:HG11	1.56	0.70
2:F:47:VAL:HG23	2:F:76:TYR:OH	1.91	0.70
2:F:144:CYS:O	2:F:145:VAL:C	2.35	0.70
2:F:324:PHE:CE2	2:F:341:ILE:HG21	2.27	0.70
2:F:452:VAL:HG13	2:F:453:GLY:N	2.06	0.70
2:J:118:ILE:HG13	2:J:122:LEU:HD22	1.74	0.70
2:J:324:PHE:CE2	2:J:341:ILE:HG21	2.27	0.70
3:P:295:VAL:HG23	3:P:356:MET:HB3	1.72	0.70
3:R:416:GLY:C	3:R:418:TYR:H	1.99	0.70
4:T:50:LEU:HD23	4:T:51:GLU:C	2.16	0.70
4:U:10:ARG:NH1	4:U:61:ARG:HE	1.88	0.70
4:U:108:GLU:HG3	4:U:109:LYS:N	2.07	0.70
4:X:50:LEU:HD23	4:X:51:GLU:C	2.16	0.70
1:A:478:TRP:CZ2	1:A:482:GLU:HG3	2.25	0.70
2:B:305:ASN:HA	2:B:308:LEU:HD12	1.74	0.70
1:C:561:GLN:HG2	2:D:522:ARG:NH2	2.06	0.70
2:D:230:MET:HG2	2:D:266:PHE:HD2	1.56	0.70
2:D:555:ILE:HG22	2:D:556:GLU:N	2.04	0.70
1:E:567:ASN:C	1:E:567:ASN:ND2	2.48	0.70
1:G:520:SER:HB2	1:G:556:ASP:OD1	1.91	0.70
2:H:47:VAL:HG23	2:H:76:TYR:OH	1.91	0.70
2:H:50:LEU:O	2:H:54:VAL:HG23	1.92	0.70
1:I:520:SER:HB2	1:I:556:ASP:OD1	1.91	0.70
2:L:106:ALA:O	2:L:110:MET:HG2	1.92	0.70
3:O:65:LEU:HD13	3:O:103:ILE:HD11	1.73	0.70
3:R:202:VAL:CG1	3:R:204:LEU:HG	2.21	0.70
3:R:285:LYS:O	3:R:286:HIS:HB2	1.90	0.70
3:V:24:ASP:C	3:V:26:ASP:H	2.00	0.70
1:A:208:MET:O	1:A:212:PHE:HB2	1.90	0.70
1:C:473:VAL:HG23	1:C:474:GLN:H	1.57	0.70
2:D:566:TYR:N	2:D:566:TYR:CD1	2.60	0.70
2:F:299:GLN:C	2:F:302:PRO:HG2	2.17	0.70
1:G:489:SER:H	1:G:500:VAL:HG11	1.56	0.70
2:H:285:ALA:CB	2:H:286:PRO:HD3	2.20	0.70
1:I:561:GLN:HG2	2:J:522:ARG:NH2	2.06	0.70
1:K:368:LEU:O	1:K:369:SER:C	2.34	0.70
1:K:561:GLN:HG2	2:L:522:ARG:NH2	2.06	0.70
2:L:147:LYS:HE2	3:V:120:PHE:HB2	1.72	0.70
2:L:285:ALA:CB	2:L:286:PRO:HD3	2.20	0.70
2:L:522:ARG:O	2:L:526:TYR:CD1	2.43	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:313:HIS:O	3:N:376:ILE:HG13	1.92	0.70
3:V:144:THR:HG22	3:V:145:GLY:N	2.07	0.70
3:V:202:VAL:CG1	3:V:204:LEU:HG	2.21	0.70
2:B:147:LYS:HE2	3:M:120:PHE:HB2	1.72	0.69
2:D:144:CYS:O	2:D:145:VAL:C	2.35	0.69
2:F:118:ILE:HG13	2:F:122:LEU:HD22	1.74	0.69
2:F:351:ILE:HA	2:F:354:VAL:HB	1.74	0.69
2:J:144:CYS:O	2:J:145:VAL:C	2.35	0.69
2:J:285:ALA:CB	2:J:286:PRO:HD3	2.20	0.69
1:K:441:LEU:HD23	1:K:441:LEU:C	2.16	0.69
3:V:313:HIS:O	3:V:376:ILE:HG13	1.92	0.69
2:B:433:CYS:O	2:B:434:GLU:C	2.34	0.69
2:D:139:LYS:CD	2:D:175:MET:HE2	2.13	0.69
2:D:217:TRP:H	2:D:217:TRP:HE3	1.39	0.69
2:F:50:LEU:O	2:F:54:VAL:HG23	1.92	0.69
2:H:144:CYS:O	2:H:145:VAL:C	2.35	0.69
1:I:212:PHE:CE2	1:I:263:SER:HB3	2.26	0.69
1:I:404:ILE:O	1:I:405:PHE:C	2.35	0.69
2:J:452:VAL:HG13	2:J:453:GLY:N	2.06	0.69
1:K:363:ARG:O	1:K:364:ARG:C	2.35	0.69
2:L:130:LEU:HD21	2:L:141:ALA:CB	2.14	0.69
2:L:461:ASN:O	2:L:463:ASP:N	2.25	0.69
3:M:384:TYR:HA	3:M:411:TYR:HB2	1.74	0.69
3:O:313:HIS:O	3:O:376:ILE:HG13	1.92	0.69
3:P:416:GLY:C	3:P:418:TYR:H	1.99	0.69
4:W:107:PHE:HD2	4:W:108:GLU:H	1.36	0.69
2:B:522:ARG:O	2:B:526:TYR:CD1	2.43	0.69
1:E:326:TYR:HE1	1:E:360:SER:HB3	1.57	0.69
1:E:441:LEU:HD23	1:E:441:LEU:C	2.17	0.69
2:F:106:ALA:O	2:F:110:MET:HG2	1.92	0.69
2:F:307:ASN:HD21	2:F:344:ARG:HH12	1.39	0.69
2:F:405:TYR:HD1	2:F:406:VAL:N	1.89	0.69
1:G:574:ASP:O	1:G:576:MET:N	2.26	0.69
2:H:324:PHE:CE2	2:H:341:ILE:HG21	2.27	0.69
2:H:461:ASN:O	2:H:463:ASP:N	2.25	0.69
2:J:351:ILE:HA	2:J:354:VAL:HB	1.74	0.69
2:J:522:ARG:O	2:J:526:TYR:CD1	2.43	0.69
1:K:326:TYR:HE1	1:K:360:SER:HB3	1.57	0.69
1:K:531:MET:CE	1:K:581:LEU:HD11	2.22	0.69
3:M:144:THR:HG22	3:M:145:GLY:N	2.07	0.69
3:P:144:THR:HG22	3:P:145:GLY:N	2.07	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:R:11:LEU:N	3:R:11:LEU:CD1	2.50	0.69
3:R:144:THR:HG22	3:R:145:GLY:N	2.07	0.69
3:V:104:ARG:HA	3:V:107:PHE:HE1	1.57	0.69
1:A:97:GLN:O	1:A:100:HIS:HB3	1.92	0.69
2:B:106:ALA:O	2:B:110:MET:HG2	1.92	0.69
2:B:217:TRP:HE3	2:B:217:TRP:H	1.39	0.69
2:B:570:LEU:HD21	3:M:75:ALA:HB3	1.74	0.69
2:D:484:LEU:O	2:D:488:ILE:HG12	1.91	0.69
2:D:569:THR:H	2:D:572:SER:HB2	1.55	0.69
1:E:377:ASN:HD21	1:E:381:MET:HG2	1.58	0.69
2:F:529:LEU:HG	2:F:537:ALA:HB2	1.75	0.69
1:G:473:VAL:HG23	1:G:474:GLN:H	1.57	0.69
1:I:396:PHE:O	1:I:397:LYS:C	2.35	0.69
2:J:341:ILE:O	2:J:342:MET:C	2.34	0.69
2:L:38:ILE:HG12	2:L:39:ALA:H	1.57	0.69
3:M:414:GLN:O	3:M:415:ASN:CB	2.40	0.69
3:N:416:GLY:C	3:N:418:TYR:H	1.99	0.69
3:O:104:ARG:HA	3:O:107:PHE:HE1	1.57	0.69
4:T:35:LEU:O	4:T:39:VAL:HG23	1.93	0.69
4:X:35:LEU:O	4:X:39:VAL:HG23	1.93	0.69
1:A:531:MET:CE	1:A:581:LEU:HD11	2.22	0.69
1:A:558:GLU:OE1	1:A:558:GLU:HA	1.92	0.69
2:B:299:GLN:C	2:B:302:PRO:HG2	2.17	0.69
2:B:452:VAL:HG13	2:B:453:GLY:N	2.06	0.69
1:C:368:LEU:O	1:C:369:SER:C	2.35	0.69
1:C:531:MET:CE	1:C:581:LEU:HD11	2.23	0.69
1:C:574:ASP:O	1:C:576:MET:N	2.26	0.69
2:D:461:ASN:O	2:D:463:ASP:N	2.25	0.69
1:E:574:ASP:O	1:E:576:MET:N	2.26	0.69
2:F:341:ILE:O	2:F:342:MET:C	2.34	0.69
1:G:404:ILE:O	1:G:405:PHE:C	2.35	0.69
1:I:441:LEU:HD23	1:I:441:LEU:C	2.17	0.69
2:J:307:ASN:HD21	2:J:344:ARG:HH12	1.39	0.69
1:K:97:GLN:O	1:K:100:HIS:HB3	1.91	0.69
1:K:489:SER:H	1:K:500:VAL:HG11	1.56	0.69
2:L:118:ILE:HG13	2:L:122:LEU:HD22	1.74	0.69
3:M:65:LEU:HD13	3:M:103:ILE:HD11	1.73	0.69
4:S:30:LYS:HB2	4:S:30:LYS:HZ2	1.58	0.69
2:B:118:ILE:HG13	2:B:122:LEU:HD22	1.74	0.69
2:B:426:GLU:HA	2:B:429:ILE:HD13	1.75	0.69
2:F:426:GLU:HA	2:F:429:ILE:HD13	1.75	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:433:CYS:O	2:J:434:GLU:C	2.34	0.69
2:J:461:ASN:O	2:J:463:ASP:N	2.25	0.69
1:K:520:SER:HB2	1:K:556:ASP:OD1	1.91	0.69
2:L:57:CYS:SG	2:L:65:LEU:HD11	2.31	0.69
2:L:452:VAL:HG13	2:L:453:GLY:N	2.06	0.69
3:O:384:TYR:HA	3:O:411:TYR:HB2	1.74	0.69
3:O:416:GLY:C	3:O:418:TYR:H	2.00	0.69
3:P:65:LEU:HD13	3:P:103:ILE:HD11	1.73	0.69
3:V:65:LEU:HD13	3:V:103:ILE:HD11	1.73	0.69
1:A:396:PHE:O	1:A:397:LYS:C	2.35	0.69
2:B:230:MET:HG2	2:B:266:PHE:HD2	1.56	0.69
1:C:363:ARG:O	1:C:364:ARG:C	2.35	0.69
2:D:324:PHE:CE2	2:D:341:ILE:HG21	2.27	0.69
2:D:529:LEU:HG	2:D:537:ALA:HB2	1.75	0.69
1:G:172:MET:HB2	1:G:201:MET:HE3	1.75	0.69
1:G:363:ARG:O	1:G:364:ARG:C	2.35	0.69
1:K:574:ASP:O	1:K:576:MET:N	2.26	0.69
2:L:50:LEU:O	2:L:54:VAL:HG23	1.92	0.69
2:L:324:PHE:CE2	2:L:341:ILE:HG21	2.27	0.69
3:N:144:THR:HG22	3:N:145:GLY:N	2.07	0.69
3:P:24:ASP:C	3:P:26:ASP:H	2.00	0.69
4:S:35:LEU:O	4:S:39:VAL:HG23	1.93	0.69
4:S:108:GLU:HG3	4:S:109:LYS:N	2.07	0.69
3:V:414:GLN:O	3:V:415:ASN:CB	2.40	0.69
1:A:473:VAL:HG23	1:A:474:GLN:H	1.57	0.69
2:B:35:LYS:CA	2:B:38:ILE:HD11	2.22	0.69
2:B:144:CYS:O	2:B:145:VAL:C	2.35	0.69
2:B:255:VAL:HG23	2:B:256:VAL:N	2.05	0.69
2:B:324:PHE:CE2	2:B:341:ILE:HG21	2.27	0.69
2:B:461:ASN:O	2:B:463:ASP:N	2.25	0.69
2:B:566:TYR:N	2:B:566:TYR:CD1	2.60	0.69
1:C:212:PHE:CE2	1:C:263:SER:HB3	2.26	0.69
1:C:283:ASN:O	1:C:284:VAL:C	2.34	0.69
1:C:326:TYR:HE1	1:C:360:SER:HB3	1.57	0.69
1:C:377:ASN:HD21	1:C:381:MET:HG2	1.58	0.69
2:D:50:LEU:O	2:D:54:VAL:HG23	1.92	0.69
2:D:299:GLN:C	2:D:302:PRO:HG2	2.17	0.69
1:E:558:GLU:OE1	1:E:558:GLU:HA	1.92	0.69
2:F:38:ILE:HG12	2:F:39:ALA:H	1.58	0.69
2:F:461:ASN:O	2:F:463:ASP:N	2.25	0.69
2:F:566:TYR:N	2:F:566:TYR:CD1	2.60	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:441:LEU:HD23	1:G:441:LEU:C	2.17	0.69
1:G:531:MET:CE	1:G:581:LEU:HD11	2.22	0.69
2:H:118:ILE:HG13	2:H:122:LEU:HD22	1.74	0.69
2:H:529:LEU:HG	2:H:537:ALA:HB2	1.75	0.69
1:I:377:ASN:HD21	1:I:381:MET:HG2	1.58	0.69
1:I:489:SER:H	1:I:500:VAL:HG11	1.56	0.69
1:I:574:ASP:O	1:I:576:MET:N	2.26	0.69
2:J:188:ALA:HB1	2:J:195:ASN:HB3	1.72	0.69
2:J:299:GLN:C	2:J:302:PRO:HG2	2.17	0.69
2:J:420:LYS:C	2:J:422:PRO:HD3	2.18	0.69
2:J:570:LEU:HD21	3:R:75:ALA:HB3	1.74	0.69
1:K:473:VAL:HG23	1:K:474:GLN:H	1.57	0.69
2:L:305:ASN:HA	2:L:308:LEU:HD12	1.74	0.69
2:L:307:ASN:HD21	2:L:344:ARG:HH12	1.39	0.69
2:L:433:CYS:O	2:L:434:GLU:C	2.34	0.69
3:N:104:ARG:HA	3:N:107:PHE:HE1	1.57	0.69
3:O:144:THR:HG22	3:O:145:GLY:N	2.07	0.69
3:O:414:GLN:O	3:O:415:ASN:CB	2.40	0.69
3:P:104:ARG:HA	3:P:107:PHE:HE1	1.57	0.69
3:R:24:ASP:C	3:R:26:ASP:H	2.00	0.69
3:R:32:HIS:ND1	3:R:52:HIS:NE2	2.41	0.69
3:R:414:GLN:O	3:R:415:ASN:CB	2.40	0.69
4:T:11:GLN:CD	4:T:11:GLN:N	2.51	0.69
3:V:384:TYR:HA	3:V:411:TYR:HB2	1.74	0.69
4:W:108:GLU:HG3	4:W:109:LYS:N	2.06	0.69
4:X:108:GLU:HG3	4:X:109:LYS:N	2.06	0.69
2:D:305:ASN:HA	2:D:308:LEU:HD12	1.74	0.69
2:F:35:LYS:CA	2:F:38:ILE:HD11	2.22	0.69
2:F:285:ALA:CB	2:F:286:PRO:HD3	2.20	0.69
2:H:75:ASN:ND2	3:P:19:ARG:HH21	1.91	0.69
1:K:172:MET:HB2	1:K:201:MET:HE3	1.75	0.69
3:N:376:ILE:HG23	3:N:420:LEU:HB2	1.75	0.69
3:N:384:TYR:HA	3:N:411:TYR:HB2	1.74	0.69
3:P:414:GLN:O	3:P:415:ASN:CB	2.40	0.69
3:R:313:HIS:O	3:R:376:ILE:HG13	1.92	0.69
3:R:384:TYR:HA	3:R:411:TYR:HB2	1.74	0.69
3:V:376:ILE:HG23	3:V:420:LEU:HB2	1.75	0.69
1:A:574:ASP:O	1:A:576:MET:N	2.26	0.69
2:B:496:PRO:HB2	2:B:499:THR:CG2	2.22	0.69
2:D:35:LYS:CA	2:D:38:ILE:HD11	2.23	0.69
2:D:285:ALA:HB3	2:D:286:PRO:CD	2.22	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:405:TYR:HD1	2:D:406:VAL:N	1.89	0.69
2:H:285:ALA:HB3	2:H:286:PRO:CD	2.21	0.69
2:H:307:ASN:HD21	2:H:344:ARG:HH12	1.40	0.69
2:H:566:TYR:N	2:H:566:TYR:CD1	2.60	0.69
2:J:50:LEU:O	2:J:54:VAL:HG23	1.92	0.69
3:M:24:ASP:C	3:M:26:ASP:H	2.00	0.69
3:R:278:TRP:CD1	3:R:279:ILE:N	2.61	0.69
3:V:32:HIS:ND1	3:V:52:HIS:NE2	2.41	0.69
1:A:321:ASP:O	1:A:322:LYS:O	2.11	0.68
2:B:420:LYS:C	2:B:422:PRO:HD3	2.18	0.68
1:C:179:THR:HG22	1:C:180:LYS:N	2.07	0.68
2:D:570:LEU:HD21	3:N:75:ALA:HB3	1.74	0.68
1:G:51:ALA:O	1:G:52:LYS:C	2.36	0.68
1:G:478:TRP:CE3	1:G:478:TRP:HA	2.29	0.68
1:G:572:LYS:HG3	1:G:573:TYR:CD1	2.28	0.68
1:I:67:GLN:HE21	1:I:93:LEU:CD2	2.06	0.68
2:J:75:ASN:ND2	3:R:19:ARG:HH21	1.91	0.68
1:K:442:ILE:O	1:K:446:THR:HG22	1.93	0.68
2:L:217:TRP:H	2:L:217:TRP:HE3	1.39	0.68
3:M:313:HIS:O	3:M:376:ILE:HG13	1.92	0.68
3:R:21:TYR:CE2	3:R:118:MET:HG2	2.28	0.68
4:U:35:LEU:O	4:U:39:VAL:HG23	1.93	0.68
1:A:326:TYR:HE1	1:A:360:SER:HB3	1.57	0.68
1:A:416:ARG:CG	1:A:454:TYR:HE1	2.06	0.68
1:C:572:LYS:HG3	1:C:573:TYR:CD1	2.29	0.68
2:D:106:ALA:O	2:D:110:MET:HG2	1.92	0.68
2:D:420:LYS:C	2:D:422:PRO:HD3	2.18	0.68
1:G:368:LEU:O	1:G:369:SER:C	2.35	0.68
1:I:326:TYR:HE1	1:I:360:SER:HB3	1.57	0.68
1:I:442:ILE:O	1:I:446:THR:HG22	1.93	0.68
1:K:321:ASP:O	1:K:322:LYS:O	2.11	0.68
1:K:416:ARG:CG	1:K:454:TYR:HE1	2.06	0.68
3:M:104:ARG:HA	3:M:107:PHE:HE1	1.57	0.68
3:N:24:ASP:C	3:N:26:ASP:H	2.00	0.68
3:O:376:ILE:HG23	3:O:420:LEU:HB2	1.75	0.68
4:U:127:SER:CB	4:U:130:SER:HB2	2.21	0.68
4:X:11:GLN:CD	4:X:11:GLN:N	2.51	0.68
2:B:50:LEU:O	2:B:54:VAL:HG23	1.92	0.68
2:B:75:ASN:ND2	3:M:19:ARG:HH21	1.91	0.68
2:B:343:ILE:C	2:B:345:LEU:H	2.02	0.68
2:B:529:LEU:HG	2:B:537:ALA:HB2	1.75	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:475:ASP:O	2:D:476:GLU:HG3	1.93	0.68
1:G:179:THR:HG22	1:G:180:LYS:N	2.06	0.68
1:G:321:ASP:O	1:G:322:LYS:O	2.11	0.68
1:I:489:SER:N	1:I:500:VAL:HG11	2.09	0.68
2:J:566:TYR:N	2:J:566:TYR:CD1	2.60	0.68
1:K:377:ASN:HD21	1:K:381:MET:HG2	1.58	0.68
2:L:211:LEU:HD23	2:L:222:ILE:HD12	1.75	0.68
3:M:11:LEU:N	3:M:11:LEU:CD1	2.50	0.68
3:M:32:HIS:ND1	3:M:52:HIS:NE2	2.41	0.68
3:N:414:GLN:O	3:N:415:ASN:CB	2.40	0.68
1:A:572:LYS:HG3	1:A:573:TYR:CD1	2.29	0.68
2:B:38:ILE:HG12	2:B:39:ALA:H	1.58	0.68
1:C:416:ARG:CG	1:C:454:TYR:HE1	2.06	0.68
2:D:211:LEU:HD23	2:D:222:ILE:HD12	1.75	0.68
1:E:363:ARG:O	1:E:364:ARG:C	2.35	0.68
1:E:473:VAL:HG23	1:E:474:GLN:H	1.57	0.68
2:H:211:LEU:HD23	2:H:222:ILE:HD12	1.75	0.68
2:L:223:LEU:HD13	2:L:259:ALA:HA	1.75	0.68
2:L:351:ILE:HA	2:L:354:VAL:HB	1.74	0.68
3:M:376:ILE:HG23	3:M:420:LEU:HB2	1.75	0.68
3:O:401:SER:O	3:O:403:TYR:N	2.27	0.68
3:P:21:TYR:CE2	3:P:118:MET:HG2	2.28	0.68
3:R:65:LEU:HD13	3:R:103:ILE:HD11	1.73	0.68
3:R:276:LEU:HB3	3:R:301:PHE:HZ	1.59	0.68
3:V:21:TYR:CE2	3:V:118:MET:HG2	2.28	0.68
1:A:179:THR:HG22	1:A:180:LYS:N	2.06	0.68
1:A:478:TRP:HA	1:A:478:TRP:CE3	2.29	0.68
1:C:51:ALA:O	1:C:52:LYS:C	2.36	0.68
1:C:313:LEU:O	1:C:316:PHE:HB2	1.94	0.68
1:E:67:GLN:HE21	1:E:93:LEU:CD2	2.06	0.68
1:E:416:ARG:CD	1:E:454:TYR:HE1	2.07	0.68
1:E:572:LYS:HG3	1:E:573:TYR:CD1	2.28	0.68
2:F:305:ASN:HA	2:F:308:LEU:HD12	1.74	0.68
1:G:377:ASN:HD21	1:G:381:MET:HG2	1.58	0.68
2:H:71:LEU:O	2:H:74:MET:HB3	1.94	0.68
2:H:521:ASP:O	2:H:522:ARG:C	2.37	0.68
1:I:572:LYS:HG3	1:I:573:TYR:CD1	2.29	0.68
1:K:31:CYS:HB3	1:K:56:MET:CE	2.24	0.68
3:M:21:TYR:CE2	3:M:118:MET:HG2	2.28	0.68
3:N:32:HIS:ND1	3:N:52:HIS:NE2	2.41	0.68
3:P:32:HIS:ND1	3:P:52:HIS:NE2	2.41	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:442:ILE:O	1:A:446:THR:HG22	1.93	0.68
1:A:491:GLN:CG	1:G:276:THR:HG22	2.23	0.68
1:C:31:CYS:HB3	1:C:56:MET:CE	2.24	0.68
1:E:267:MET:HE1	1:E:299:ILE:CD1	2.24	0.68
2:F:521:ASP:O	2:F:522:ARG:C	2.37	0.68
1:G:442:ILE:O	1:G:446:THR:HG22	1.93	0.68
2:H:475:ASP:O	2:H:476:GLU:HG3	1.93	0.68
2:H:494:LYS:C	2:H:496:PRO:CD	2.67	0.68
2:H:566:TYR:N	2:H:566:TYR:HD1	1.92	0.68
1:I:31:CYS:HB3	1:I:56:MET:CE	2.24	0.68
1:I:473:VAL:HG23	1:I:474:GLN:H	1.57	0.68
1:K:567:ASN:C	1:K:567:ASN:ND2	2.48	0.68
1:K:572:LYS:HG3	1:K:573:TYR:CD1	2.29	0.68
2:L:75:ASN:ND2	3:V:19:ARG:HH21	1.91	0.68
2:L:144:CYS:O	2:L:145:VAL:C	2.35	0.68
3:N:21:TYR:CE2	3:N:118:MET:HG2	2.28	0.68
4:S:77:GLU:O	4:S:80:THR:HB	1.94	0.68
1:A:31:CYS:HB3	1:A:56:MET:CE	2.24	0.68
1:A:519:THR:HG22	1:A:521:VAL:H	1.59	0.68
1:C:172:MET:HB2	1:C:201:MET:HE3	1.75	0.68
1:C:442:ILE:O	1:C:446:THR:HG22	1.93	0.68
2:D:12:LYS:HG2	2:D:13:GLY:N	2.08	0.68
2:D:223:LEU:HD13	2:D:259:ALA:HA	1.76	0.68
1:E:172:MET:HB2	1:E:201:MET:HE3	1.75	0.68
2:H:570:LEU:HD21	3:P:75:ALA:HB3	1.74	0.68
1:I:531:MET:CE	1:I:581:LEU:HD11	2.23	0.68
2:J:343:ILE:C	2:J:345:LEU:H	2.02	0.68
1:K:51:ALA:O	1:K:52:LYS:C	2.36	0.68
1:K:242:ASP:O	1:K:243:PRO:C	2.36	0.68
1:K:283:ASN:O	1:K:284:VAL:C	2.34	0.68
2:L:473:PHE:C	2:L:475:ASP:N	2.46	0.68
3:N:401:SER:O	3:N:403:TYR:N	2.27	0.68
3:O:21:TYR:CE2	3:O:118:MET:HG2	2.28	0.68
4:U:77:GLU:O	4:U:80:THR:HB	1.94	0.68
3:V:401:SER:O	3:V:403:TYR:N	2.27	0.68
4:X:77:GLU:O	4:X:80:THR:HB	1.94	0.68
2:B:104:ALA:HB1	2:B:136:TYR:CD2	2.29	0.68
1:C:478:TRP:CE3	1:C:478:TRP:HA	2.29	0.68
1:E:187:ASN:HD22	1:E:188:HIS:N	1.92	0.68
2:F:71:LEU:O	2:F:74:MET:HB3	1.94	0.68
2:F:420:LYS:C	2:F:422:PRO:HD3	2.18	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:420:LYS:C	2:H:422:PRO:HD3	2.18	0.68
1:I:74:ILE:HG23	1:I:86:TYR:CE1	2.27	0.68
1:I:313:LEU:O	1:I:316:PHE:HB2	1.94	0.68
2:J:38:ILE:HG12	2:J:39:ALA:H	1.58	0.68
2:J:71:LEU:O	2:J:74:MET:HB3	1.94	0.68
2:J:305:ASN:HA	2:J:308:LEU:HD12	1.74	0.68
2:L:12:LYS:HG2	2:L:13:GLY:N	2.09	0.68
2:L:285:ALA:HB3	2:L:286:PRO:CD	2.22	0.68
3:O:24:ASP:C	3:O:26:ASP:H	2.00	0.68
4:S:11:GLN:CD	4:S:11:GLN:N	2.51	0.68
3:V:416:GLY:C	3:V:418:TYR:H	2.00	0.68
1:A:377:ASN:HD21	1:A:381:MET:HG2	1.58	0.68
1:A:416:ARG:CD	1:A:454:TYR:HE1	2.07	0.68
1:C:321:ASP:O	1:C:322:LYS:O	2.11	0.68
1:C:416:ARG:CD	1:C:454:TYR:HE1	2.07	0.68
1:C:519:THR:HG22	1:C:521:VAL:H	1.59	0.68
2:D:38:ILE:HG12	2:D:39:ALA:H	1.57	0.68
1:E:321:ASP:O	1:E:322:LYS:O	2.11	0.68
1:E:531:MET:CE	1:E:581:LEU:HD11	2.23	0.68
2:F:12:LYS:HG2	2:F:13:GLY:N	2.08	0.68
1:G:187:ASN:HD22	1:G:188:HIS:N	1.92	0.68
2:H:38:ILE:HG12	2:H:39:ALA:H	1.57	0.68
2:H:485:LEU:C	2:H:485:LEU:HD23	2.19	0.68
1:I:416:ARG:CG	1:I:454:TYR:HE1	2.06	0.68
3:R:401:SER:O	3:R:403:TYR:N	2.27	0.68
3:V:215:ASN:HD22	3:V:391:GLN:N	1.91	0.68
2:B:211:LEU:HD23	2:B:222:ILE:HD12	1.75	0.68
2:B:566:TYR:N	2:B:566:TYR:HD1	1.92	0.68
1:C:242:ASP:O	1:C:243:PRO:C	2.36	0.68
2:D:323:VAL:HG23	2:D:324:PHE:CD1	2.23	0.68
2:D:522:ARG:O	2:D:526:TYR:CD1	2.43	0.68
1:E:242:ASP:O	1:E:243:PRO:C	2.36	0.68
1:E:313:LEU:O	1:E:316:PHE:HB2	1.94	0.68
2:F:211:LEU:HD23	2:F:222:ILE:HD12	1.75	0.68
1:G:519:THR:HG22	1:G:521:VAL:H	1.59	0.68
2:H:104:ALA:HB1	2:H:136:TYR:CD2	2.29	0.68
1:I:187:ASN:HD22	1:I:188:HIS:N	1.92	0.68
2:J:475:ASP:O	2:J:476:GLU:HG3	1.93	0.68
2:J:521:ASP:O	2:J:522:ARG:C	2.37	0.68
2:J:566:TYR:N	2:J:566:TYR:HD1	1.92	0.68
1:K:558:GLU:HA	1:K:558:GLU:OE1	1.92	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:566:TYR:N	2:L:566:TYR:HD1	1.92	0.68
3:R:215:ASN:HD22	3:R:391:GLN:N	1.91	0.68
1:A:5:ILE:HB	1:A:52:LYS:HZ3	1.58	0.67
1:C:404:ILE:O	1:C:405:PHE:C	2.35	0.67
1:C:558:GLU:HA	1:C:558:GLU:OE1	1.93	0.67
2:D:104:ALA:HB1	2:D:136:TYR:CD2	2.29	0.67
2:D:343:ILE:C	2:D:345:LEU:H	2.02	0.67
1:E:416:ARG:CG	1:E:454:TYR:HE1	2.06	0.67
1:E:531:MET:SD	1:E:566:TYR:CD2	2.88	0.67
2:F:223:LEU:HD13	2:F:259:ALA:HA	1.75	0.67
1:G:326:TYR:HE1	1:G:360:SER:HB3	1.57	0.67
2:H:305:ASN:HA	2:H:308:LEU:HD12	1.74	0.67
1:I:83:ARG:HA	1:I:121:LEU:HD13	1.76	0.67
1:K:404:ILE:O	1:K:405:PHE:C	2.35	0.67
3:N:215:ASN:HD22	3:N:391:GLN:N	1.91	0.67
3:P:215:ASN:HD22	3:P:391:GLN:N	1.91	0.67
3:R:104:ARG:HA	3:R:107:PHE:HE1	1.57	0.67
4:U:76:ASN:C	4:U:76:ASN:ND2	2.44	0.67
4:U:107:PHE:HD2	4:U:108:GLU:H	1.36	0.67
4:W:11:GLN:CD	4:W:11:GLN:N	2.51	0.67
4:W:35:LEU:O	4:W:39:VAL:HG23	1.93	0.67
1:A:489:SER:N	1:A:500:VAL:HG11	2.09	0.67
1:A:503:ASP:OD2	2:J:393:SER:HB2	1.95	0.67
2:B:12:LYS:HG2	2:B:13:GLY:N	2.08	0.67
1:C:529:ALA:CA	1:C:532:LYS:HG3	2.24	0.67
2:D:75:ASN:ND2	3:N:19:ARG:HH21	1.91	0.67
1:E:364:ARG:O	1:E:365:ALA:C	2.37	0.67
2:F:75:ASN:ND2	3:O:19:ARG:HH21	1.91	0.67
2:F:570:LEU:HD23	3:O:77:VAL:CG2	2.25	0.67
2:H:570:LEU:HD23	3:P:77:VAL:CG2	2.25	0.67
1:I:363:ARG:O	1:I:364:ARG:C	2.35	0.67
1:I:558:GLU:OE1	1:I:558:GLU:HA	1.92	0.67
2:J:323:VAL:HG23	2:J:324:PHE:CD1	2.23	0.67
2:J:529:LEU:HG	2:J:537:ALA:HB2	1.75	0.67
1:K:267:MET:HE1	1:K:299:ILE:CD1	2.24	0.67
1:K:396:PHE:O	1:K:397:LYS:C	2.35	0.67
2:L:420:LYS:C	2:L:422:PRO:HD3	2.18	0.67
2:L:485:LEU:C	2:L:485:LEU:HD23	2.19	0.67
3:M:215:ASN:HD22	3:M:391:GLN:N	1.91	0.67
3:P:276:LEU:HB3	3:P:301:PHE:HZ	1.59	0.67
4:Q:30:LYS:HA	4:Q:30:LYS:HZ1	1.58	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:T:79:ILE:HG23	4:T:80:THR:N	2.09	0.67
4:T:86:ARG:O	4:T:89:GLU:HB3	1.94	0.67
4:W:30:LYS:HZ1	4:W:30:LYS:HA	1.59	0.67
1:A:172:MET:HB2	1:A:201:MET:HE3	1.75	0.67
1:A:267:MET:HE1	1:A:299:ILE:CD1	2.24	0.67
1:C:14:ILE:HD12	1:C:14:ILE:N	2.10	0.67
1:C:489:SER:N	1:C:500:VAL:HG11	2.09	0.67
2:D:570:LEU:HD23	3:N:77:VAL:CG2	2.25	0.67
2:F:473:PHE:C	2:F:475:ASP:N	2.45	0.67
2:F:494:LYS:C	2:F:496:PRO:CD	2.67	0.67
2:F:570:LEU:HD23	3:O:77:VAL:HG22	1.77	0.67
1:G:67:GLN:HE21	1:G:93:LEU:CD2	2.06	0.67
1:G:83:ARG:HA	1:G:121:LEU:HD13	1.77	0.67
1:G:267:MET:HE1	1:G:299:ILE:CD1	2.24	0.67
2:H:496:PRO:HB2	2:H:499:THR:CG2	2.22	0.67
1:I:51:ALA:O	1:I:52:LYS:C	2.36	0.67
2:J:485:LEU:HD23	2:J:485:LEU:C	2.19	0.67
1:K:313:LEU:O	1:K:316:PHE:HB2	1.94	0.67
2:L:426:GLU:HA	2:L:429:ILE:HD13	1.75	0.67
2:L:441:GLU:HG2	2:L:442:PRO:HD2	1.76	0.67
4:Q:35:LEU:O	4:Q:39:VAL:HG23	1.93	0.67
4:Q:107:PHE:HD2	4:Q:108:GLU:H	1.36	0.67
1:E:51:ALA:O	1:E:52:LYS:C	2.36	0.67
1:E:442:ILE:O	1:E:446:THR:HG22	1.93	0.67
1:E:489:SER:N	1:E:500:VAL:HG11	2.09	0.67
2:F:475:ASP:O	2:F:476:GLU:HG3	1.93	0.67
1:G:68:LEU:O	1:G:71:LEU:N	2.27	0.67
1:G:242:ASP:O	1:G:243:PRO:C	2.36	0.67
1:G:558:GLU:HA	1:G:558:GLU:OE1	1.93	0.67
1:I:364:ARG:O	1:I:365:ALA:C	2.37	0.67
1:K:8:ARG:HD2	3:P:337:GLU:HB3	1.77	0.67
1:K:421:THR:O	1:K:424:ARG:HB3	1.95	0.67
1:K:479:CYS:O	1:K:480:ILE:C	2.38	0.67
1:K:489:SER:N	1:K:500:VAL:HG11	2.09	0.67
1:K:529:ALA:CA	1:K:532:LYS:HG3	2.24	0.67
2:L:343:ILE:C	2:L:345:LEU:H	2.02	0.67
2:L:529:LEU:HG	2:L:537:ALA:HB2	1.75	0.67
3:O:215:ASN:HD22	3:O:391:GLN:N	1.91	0.67
3:P:313:HIS:O	3:P:376:ILE:HG13	1.92	0.67
3:P:384:TYR:HA	3:P:411:TYR:HB2	1.74	0.67
4:Q:11:GLN:CD	4:Q:11:GLN:N	2.51	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:Q:79:ILE:HG23	4:Q:80:THR:N	2.09	0.67
4:T:107:PHE:HD2	4:T:108:GLU:H	1.36	0.67
3:V:233:LEU:HD21	3:V:236:VAL:CG2	2.25	0.67
1:A:404:ILE:O	1:A:405:PHE:C	2.35	0.67
2:B:139:LYS:HD3	2:B:175:MET:CE	2.14	0.67
2:B:323:VAL:HG23	2:B:324:PHE:CD1	2.23	0.67
2:B:521:ASP:O	2:B:522:ARG:C	2.37	0.67
2:B:570:LEU:HD23	3:M:77:VAL:CG2	2.25	0.67
1:C:532:LYS:HB3	1:C:536:ARG:HH11	1.60	0.67
2:D:426:GLU:HA	2:D:429:ILE:HD13	1.75	0.67
1:E:14:ILE:HD12	1:E:14:ILE:N	2.10	0.67
2:F:104:ALA:HB1	2:F:136:TYR:CD2	2.29	0.67
2:F:566:TYR:N	2:F:566:TYR:HD1	1.92	0.67
1:G:313:LEU:O	1:G:316:PHE:HB2	1.94	0.67
1:G:421:THR:O	1:G:424:ARG:HB3	1.95	0.67
1:I:321:ASP:O	1:I:322:LYS:O	2.11	0.67
2:J:466:LEU:HD12	2:J:466:LEU:N	2.10	0.67
1:K:478:TRP:CE3	1:K:478:TRP:HA	2.28	0.67
3:N:233:LEU:HD21	3:N:236:VAL:CG2	2.25	0.67
3:N:278:TRP:CD1	3:N:279:ILE:N	2.61	0.67
3:O:32:HIS:ND1	3:O:52:HIS:NE2	2.41	0.67
3:P:233:LEU:HD21	3:P:236:VAL:CG2	2.25	0.67
3:P:401:SER:O	3:P:403:TYR:N	2.27	0.67
3:R:376:ILE:HG23	3:R:420:LEU:HB2	1.75	0.67
4:S:107:PHE:HD2	4:S:108:GLU:H	1.36	0.67
4:U:86:ARG:O	4:U:89:GLU:HB3	1.94	0.67
1:A:242:ASP:O	1:A:243:PRO:C	2.36	0.67
1:A:313:LEU:O	1:A:316:PHE:HB2	1.94	0.67
1:A:362:LYS:O	1:A:365:ALA:HB3	1.94	0.67
2:B:255:VAL:CG2	2:B:256:VAL:H	2.06	0.67
2:B:475:ASP:O	2:B:476:GLU:HG3	1.93	0.67
1:C:267:MET:HE1	1:C:299:ILE:CD1	2.24	0.67
1:C:585:PRO:HG2	2:D:524:TYR:CZ	2.30	0.67
2:D:566:TYR:N	2:D:566:TYR:HD1	1.92	0.67
1:G:479:CYS:O	1:G:480:ILE:C	2.38	0.67
1:I:362:LYS:O	1:I:365:ALA:HB3	1.95	0.67
1:I:416:ARG:CD	1:I:454:TYR:HE1	2.07	0.67
1:I:585:PRO:HG2	2:J:524:TYR:CZ	2.30	0.67
2:J:285:ALA:HB3	2:J:286:PRO:CD	2.22	0.67
2:J:496:PRO:HB2	2:J:499:THR:CG2	2.22	0.67
1:K:187:ASN:HD22	1:K:188:HIS:N	1.92	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:351:VAL:O	1:K:354:LEU:HG	1.95	0.67
1:K:362:LYS:O	1:K:365:ALA:HB3	1.95	0.67
1:K:531:MET:SD	1:K:566:TYR:CD2	2.88	0.67
2:L:475:ASP:O	2:L:476:GLU:HG3	1.93	0.67
3:O:276:LEU:HB3	3:O:301:PHE:HZ	1.59	0.67
2:B:20:ALA:C	2:B:22:LEU:H	2.03	0.67
2:B:441:GLU:HG2	2:B:442:PRO:HD2	1.76	0.67
2:B:466:LEU:HD12	2:B:466:LEU:N	2.10	0.67
1:C:351:VAL:O	1:C:354:LEU:HG	1.95	0.67
2:D:71:LEU:O	2:D:74:MET:HB3	1.94	0.67
2:H:408:GLN:O	2:H:409:GLU:C	2.38	0.67
2:H:437:ASP:O	2:H:439:ASP:N	2.28	0.67
1:I:521:VAL:HG13	1:I:522:THR:N	2.10	0.67
2:J:426:GLU:HA	2:J:429:ILE:HD13	1.75	0.67
2:L:496:PRO:HB2	2:L:499:THR:CG2	2.22	0.67
3:M:401:SER:O	3:M:403:TYR:N	2.27	0.67
3:O:117:LEU:HD23	3:O:126:THR:HG21	1.77	0.67
4:U:79:ILE:HG23	4:U:80:THR:N	2.09	0.67
4:W:79:ILE:HG23	4:W:80:THR:N	2.09	0.67
2:B:71:LEU:O	2:B:74:MET:HB3	1.94	0.67
1:E:351:VAL:O	1:E:354:LEU:HG	1.95	0.67
1:E:478:TRP:HA	1:E:478:TRP:CE3	2.29	0.67
1:G:489:SER:N	1:G:500:VAL:HG11	2.09	0.67
2:H:441:GLU:HG2	2:H:442:PRO:HD2	1.76	0.67
1:I:14:ILE:HD12	1:I:14:ILE:N	2.10	0.67
1:I:267:MET:HE1	1:I:299:ILE:CD1	2.24	0.67
1:I:421:THR:O	1:I:424:ARG:HB3	1.95	0.67
1:I:519:THR:HG22	1:I:521:VAL:H	1.59	0.67
2:J:12:LYS:HG2	2:J:13:GLY:N	2.08	0.67
2:L:38:ILE:HD13	2:L:38:ILE:H	1.60	0.67
3:R:233:LEU:HD21	3:R:236:VAL:CG2	2.25	0.67
4:S:79:ILE:HG23	4:S:80:THR:N	2.09	0.67
2:D:485:LEU:C	2:D:485:LEU:HD23	2.19	0.67
1:E:31:CYS:HB3	1:E:56:MET:CE	2.24	0.67
1:E:359:VAL:O	1:E:362:LYS:HB2	1.95	0.67
1:E:479:CYS:O	1:E:480:ILE:C	2.38	0.67
1:E:585:PRO:HG2	2:F:524:TYR:CZ	2.30	0.67
2:F:255:VAL:HG23	2:F:256:VAL:N	2.05	0.67
2:F:437:ASP:O	2:F:439:ASP:N	2.28	0.67
1:G:31:CYS:HB3	1:G:56:MET:CE	2.24	0.67
2:H:139:LYS:HD3	2:H:175:MET:CE	2.14	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:570:LEU:HD23	3:P:77:VAL:HG22	1.77	0.67
1:I:68:LEU:O	1:I:71:LEU:N	2.27	0.67
1:I:172:MET:HB2	1:I:201:MET:HE3	1.75	0.67
1:I:478:TRP:HA	1:I:478:TRP:CE3	2.29	0.67
1:I:529:ALA:CA	1:I:532:LYS:HG3	2.24	0.67
2:J:441:GLU:HG2	2:J:442:PRO:HD2	1.76	0.67
2:J:570:LEU:HD23	3:R:77:VAL:CG2	2.25	0.67
1:K:359:VAL:O	1:K:362:LYS:HB2	1.95	0.67
2:L:437:ASP:O	2:L:439:ASP:N	2.28	0.67
3:M:233:LEU:HD21	3:M:236:VAL:CG2	2.25	0.67
3:N:117:LEU:HD23	3:N:126:THR:HG21	1.77	0.67
3:P:376:ILE:HG23	3:P:420:LEU:HB2	1.75	0.67
1:A:531:MET:SD	1:A:566:TYR:CD2	2.88	0.67
2:B:485:LEU:HD23	2:B:485:LEU:C	2.19	0.67
1:C:212:PHE:HE2	1:C:263:SER:HB3	1.60	0.67
2:D:441:GLU:HG2	2:D:442:PRO:HD2	1.76	0.67
1:E:83:ARG:HA	1:E:121:LEU:HD13	1.76	0.67
2:F:171:ASP:O	2:F:172:SER:C	2.38	0.67
2:F:466:LEU:HD12	2:F:466:LEU:N	2.10	0.67
2:F:485:LEU:HD23	2:F:485:LEU:C	2.19	0.67
2:H:223:LEU:HD13	2:H:259:ALA:HA	1.75	0.67
2:H:255:VAL:CG2	2:H:256:VAL:H	2.06	0.67
1:I:315:ARG:HH11	1:I:315:ARG:HG3	1.60	0.67
1:K:67:GLN:HE21	1:K:93:LEU:CD2	2.06	0.67
2:L:71:LEU:O	2:L:74:MET:HB3	1.94	0.67
4:Q:30:LYS:HZ2	4:Q:30:LYS:HB2	1.59	0.67
3:R:43:GLU:C	3:R:45:MET:H	2.03	0.67
4:S:30:LYS:HZ1	4:S:30:LYS:HA	1.59	0.67
4:T:77:GLU:O	4:T:80:THR:HB	1.94	0.67
4:W:86:ARG:O	4:W:89:GLU:HB3	1.94	0.67
4:X:86:ARG:O	4:X:89:GLU:HB3	1.94	0.67
1:A:67:GLN:HE21	1:A:93:LEU:CD2	2.06	0.66
1:A:83:ARG:HA	1:A:121:LEU:HD13	1.77	0.66
1:A:363:ARG:O	1:A:364:ARG:C	2.35	0.66
1:A:421:THR:O	1:A:424:ARG:HB3	1.95	0.66
1:A:529:ALA:CA	1:A:532:LYS:HG3	2.24	0.66
2:B:570:LEU:HD23	3:M:77:VAL:HG22	1.77	0.66
2:F:20:ALA:C	2:F:22:LEU:H	2.03	0.66
2:F:141:ALA:O	2:F:142:ALA:C	2.38	0.66
1:G:351:VAL:O	1:G:354:LEU:HG	1.95	0.66
1:G:364:ARG:O	1:G:365:ALA:C	2.37	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:416:ARG:CD	1:G:454:TYR:HE1	2.07	0.66
1:G:521:VAL:HG13	1:G:522:THR:N	2.10	0.66
1:G:531:MET:SD	1:G:566:TYR:CD2	2.88	0.66
2:H:184:LEU:HA	2:H:187:ILE:HD12	1.77	0.66
2:H:426:GLU:HA	2:H:429:ILE:HD13	1.75	0.66
1:I:351:VAL:O	1:I:354:LEU:HG	1.95	0.66
1:I:531:MET:SD	1:I:566:TYR:CD2	2.88	0.66
2:J:20:ALA:C	2:J:22:LEU:H	2.03	0.66
2:J:211:LEU:HD23	2:J:222:ILE:HD12	1.75	0.66
2:J:223:LEU:HD13	2:J:259:ALA:HA	1.75	0.66
1:K:14:ILE:HD12	1:K:14:ILE:N	2.10	0.66
1:K:68:LEU:O	1:K:71:LEU:N	2.27	0.66
1:K:83:ARG:HA	1:K:121:LEU:HD13	1.77	0.66
1:K:519:THR:HG22	1:K:521:VAL:H	1.59	0.66
1:K:521:VAL:HG13	1:K:522:THR:N	2.10	0.66
3:O:233:LEU:HD21	3:O:236:VAL:CG2	2.25	0.66
4:W:30:LYS:HB2	4:W:30:LYS:HZ2	1.58	0.66
1:A:187:ASN:HD22	1:A:188:HIS:N	1.92	0.66
2:B:174:PRO:O	2:B:176:VAL:N	2.29	0.66
2:B:285:ALA:HB3	2:B:286:PRO:CD	2.22	0.66
1:C:531:MET:SD	1:C:566:TYR:CD2	2.88	0.66
1:E:68:LEU:O	1:E:71:LEU:N	2.27	0.66
1:E:315:ARG:HH11	1:E:315:ARG:HG3	1.60	0.66
1:E:362:LYS:O	1:E:365:ALA:HB3	1.95	0.66
1:E:519:THR:HG22	1:E:521:VAL:H	1.59	0.66
1:E:529:ALA:CA	1:E:532:LYS:HG3	2.24	0.66
2:F:473:PHE:O	2:F:475:ASP:N	2.29	0.66
1:G:362:LYS:O	1:G:365:ALA:HB3	1.94	0.66
2:H:12:LYS:HG2	2:H:13:GLY:N	2.09	0.66
2:H:491:LEU:HD13	2:H:499:THR:CG2	2.26	0.66
2:J:411:ILE:O	2:J:412:VAL:C	2.39	0.66
2:J:437:ASP:O	2:J:439:ASP:N	2.28	0.66
3:M:419:GLN:O	3:M:420:LEU:HD23	1.95	0.66
3:V:419:GLN:O	3:V:420:LEU:HD23	1.95	0.66
1:A:68:LEU:O	1:A:71:LEU:N	2.27	0.66
1:C:359:VAL:O	1:C:362:LYS:HB2	1.95	0.66
2:F:123:CYS:O	2:F:126:LEU:HB3	1.96	0.66
1:G:14:ILE:HD12	1:G:14:ILE:N	2.10	0.66
1:G:74:ILE:HG23	1:G:86:TYR:CE1	2.27	0.66
1:G:359:VAL:O	1:G:362:LYS:HB2	1.95	0.66
1:G:416:ARG:CG	1:G:454:TYR:HE1	2.06	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:38:ILE:HD13	2:H:38:ILE:H	1.60	0.66
2:H:411:ILE:O	2:H:412:VAL:C	2.39	0.66
2:H:466:LEU:HD12	2:H:466:LEU:N	2.10	0.66
1:I:359:VAL:O	1:I:362:LYS:HB2	1.95	0.66
2:J:104:ALA:HB1	2:J:136:TYR:CD2	2.29	0.66
2:J:171:ASP:O	2:J:172:SER:C	2.38	0.66
2:L:466:LEU:HD12	2:L:466:LEU:N	2.10	0.66
3:P:43:GLU:C	3:P:45:MET:H	2.03	0.66
4:Q:86:ARG:O	4:Q:89:GLU:HB3	1.94	0.66
3:R:117:LEU:HD23	3:R:126:THR:HG21	1.77	0.66
3:R:245:SER:HB3	3:R:252:THR:HB	1.77	0.66
3:R:271:THR:O	3:R:273:VAL:HG23	1.96	0.66
4:W:77:GLU:O	4:W:80:THR:HB	1.94	0.66
1:A:315:ARG:HH11	1:A:315:ARG:HG3	1.60	0.66
1:A:351:VAL:O	1:A:354:LEU:HG	1.95	0.66
1:A:532:LYS:HB3	1:A:536:ARG:HH11	1.60	0.66
2:B:223:LEU:HD13	2:B:259:ALA:HA	1.76	0.66
2:B:473:PHE:O	2:B:475:ASP:N	2.29	0.66
2:B:491:LEU:HD13	2:B:499:THR:CG2	2.25	0.66
1:C:67:GLN:HE21	1:C:93:LEU:CD2	2.06	0.66
1:C:187:ASN:HD22	1:C:188:HIS:N	1.92	0.66
1:C:315:ARG:HG3	1:C:315:ARG:HH11	1.60	0.66
2:D:171:ASP:O	2:D:172:SER:C	2.38	0.66
2:D:437:ASP:O	2:D:439:ASP:N	2.28	0.66
2:D:473:PHE:O	2:D:475:ASP:N	2.29	0.66
2:D:570:LEU:HD23	3:N:77:VAL:HG22	1.77	0.66
2:F:343:ILE:C	2:F:345:LEU:H	2.02	0.66
1:G:438:VAL:HB	1:G:439:PRO:CD	2.23	0.66
2:H:123:CYS:O	2:H:126:LEU:HB3	1.96	0.66
1:I:5:ILE:HB	1:I:52:LYS:HZ3	1.60	0.66
1:I:212:PHE:HE2	1:I:263:SER:HB3	1.60	0.66
2:J:184:LEU:HA	2:J:187:ILE:HD12	1.77	0.66
2:J:491:LEU:HD13	2:J:499:THR:CG2	2.25	0.66
2:L:171:ASP:O	2:L:172:SER:C	2.38	0.66
2:L:570:LEU:HD23	3:V:77:VAL:CG2	2.25	0.66
4:S:86:ARG:O	4:S:89:GLU:HB3	1.94	0.66
4:T:86:ARG:O	4:T:90:LEU:HD23	1.96	0.66
3:V:271:THR:O	3:V:273:VAL:HG23	1.96	0.66
4:X:79:ILE:HG23	4:X:80:THR:N	2.09	0.66
1:A:51:ALA:O	1:A:52:LYS:C	2.36	0.66
2:B:437:ASP:O	2:B:439:ASP:N	2.28	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:223:LEU:HA	2:D:226:LEU:HG	1.77	0.66
2:D:408:GLN:O	2:D:409:GLU:C	2.38	0.66
1:E:521:VAL:HG13	1:E:522:THR:N	2.10	0.66
2:H:20:ALA:C	2:H:22:LEU:H	2.03	0.66
2:J:141:ALA:O	2:J:142:ALA:C	2.38	0.66
2:J:223:LEU:HA	2:J:226:LEU:HG	1.78	0.66
1:K:430:GLY:O	1:K:432:TYR:N	2.29	0.66
2:L:411:ILE:O	2:L:412:VAL:C	2.39	0.66
3:P:117:LEU:HD23	3:P:126:THR:HG21	1.77	0.66
3:P:419:GLN:O	3:P:420:LEU:HD23	1.95	0.66
3:R:419:GLN:O	3:R:420:LEU:HD23	1.95	0.66
1:A:14:ILE:HD12	1:A:14:ILE:N	2.10	0.66
2:B:171:ASP:O	2:B:172:SER:C	2.38	0.66
1:C:68:LEU:O	1:C:71:LEU:N	2.27	0.66
2:D:521:ASP:O	2:D:522:ARG:C	2.37	0.66
1:E:74:ILE:HG23	1:E:86:TYR:CE1	2.27	0.66
2:F:144:CYS:O	2:F:147:LYS:N	2.29	0.66
2:H:223:LEU:HA	2:H:226:LEU:HG	1.77	0.66
1:I:479:CYS:O	1:I:480:ILE:C	2.38	0.66
2:J:570:LEU:HD23	3:R:77:VAL:HG22	1.77	0.66
1:K:364:ARG:O	1:K:365:ALA:C	2.37	0.66
1:K:416:ARG:CD	1:K:454:TYR:HE1	2.07	0.66
2:L:141:ALA:O	2:L:142:ALA:C	2.38	0.66
2:L:457:GLU:HG3	2:L:458:ARG:N	2.11	0.66
2:L:521:ASP:O	2:L:522:ARG:C	2.37	0.66
3:N:419:GLN:O	3:N:420:LEU:HD23	1.95	0.66
3:P:245:SER:HB3	3:P:252:THR:HB	1.77	0.66
1:A:188:HIS:O	1:A:189:GLY:C	2.39	0.66
1:C:83:ARG:HA	1:C:121:LEU:HD13	1.77	0.66
1:C:362:LYS:O	1:C:365:ALA:HB3	1.95	0.66
1:C:421:THR:O	1:C:424:ARG:HB3	1.95	0.66
1:C:430:GLY:O	1:C:432:TYR:N	2.29	0.66
1:C:521:VAL:HG13	1:C:522:THR:N	2.10	0.66
2:D:38:ILE:HD13	2:D:38:ILE:H	1.60	0.66
2:D:47:VAL:O	2:D:48:SER:C	2.39	0.66
2:F:38:ILE:H	2:F:38:ILE:HD13	1.60	0.66
1:G:315:ARG:HG3	1:G:315:ARG:HH11	1.60	0.66
1:K:585:PRO:HG2	2:L:524:TYR:CZ	2.30	0.66
2:L:144:CYS:O	2:L:147:LYS:N	2.29	0.66
4:Q:77:GLU:O	4:Q:80:THR:HB	1.94	0.66
4:U:86:ARG:O	4:U:90:LEU:HD23	1.96	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:479:CYS:O	1:A:480:ILE:C	2.38	0.66
2:B:141:ALA:O	2:B:142:ALA:C	2.38	0.66
2:B:144:CYS:O	2:B:147:LYS:N	2.29	0.66
2:B:298:PRO:O	2:B:302:PRO:CD	2.40	0.66
1:C:364:ARG:O	1:C:365:ALA:C	2.37	0.66
1:C:479:CYS:O	1:C:480:ILE:C	2.38	0.66
2:D:174:PRO:O	2:D:176:VAL:N	2.28	0.66
2:D:470:LEU:O	2:D:472:GLY:N	2.29	0.66
2:D:491:LEU:HD13	2:D:499:THR:CG2	2.25	0.66
2:F:174:PRO:O	2:F:176:VAL:N	2.28	0.66
2:H:473:PHE:O	2:H:475:ASP:N	2.29	0.66
1:I:242:ASP:O	1:I:243:PRO:C	2.36	0.66
1:I:532:LYS:HB3	1:I:536:ARG:HH11	1.60	0.66
2:J:139:LYS:CD	2:J:175:MET:HE2	2.13	0.66
1:K:315:ARG:HG3	1:K:315:ARG:HH11	1.60	0.66
3:M:276:LEU:HB3	3:M:301:PHE:HZ	1.59	0.66
3:O:271:THR:O	3:O:273:VAL:HG23	1.96	0.66
3:V:184:SER:HA	3:V:421:ARG:HB2	1.78	0.66
2:D:139:LYS:HD3	2:D:175:MET:CE	2.14	0.66
2:F:441:GLU:HG2	2:F:442:PRO:HD2	1.76	0.66
1:G:430:GLY:O	1:G:432:TYR:N	2.29	0.66
2:H:391:CYS:O	2:H:392:VAL:C	2.39	0.66
1:I:581:LEU:C	1:I:583:ARG:H	2.04	0.66
2:J:368:ASP:O	2:J:371:ARG:HB3	1.96	0.66
2:J:470:LEU:O	2:J:472:GLY:N	2.29	0.66
2:L:47:VAL:O	2:L:48:SER:C	2.39	0.66
2:L:491:LEU:HD13	2:L:499:THR:CG2	2.26	0.66
3:M:117:LEU:HD23	3:M:126:THR:HG21	1.77	0.66
3:P:271:THR:O	3:P:273:VAL:HG23	1.96	0.66
4:X:86:ARG:O	4:X:90:LEU:HD23	1.96	0.66
1:A:585:PRO:HG2	2:B:524:TYR:CZ	2.30	0.66
2:B:368:ASP:O	2:B:371:ARG:HB3	1.96	0.66
1:C:46:ARG:HG2	1:C:73:LEU:HD21	1.78	0.66
1:C:97:GLN:CA	1:C:100:HIS:HB3	2.26	0.66
2:D:391:CYS:O	2:D:392:VAL:C	2.39	0.66
2:D:411:ILE:O	2:D:412:VAL:C	2.39	0.66
2:F:238:GLN:O	2:F:242:GLU:HB2	1.96	0.66
1:G:212:PHE:HE2	1:G:263:SER:HB3	1.61	0.66
2:H:141:ALA:O	2:H:142:ALA:C	2.38	0.66
2:H:171:ASP:O	2:H:172:SER:C	2.38	0.66
2:H:174:PRO:O	2:H:176:VAL:N	2.29	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:343:ILE:C	2:H:345:LEU:H	2.02	0.66
2:J:174:PRO:O	2:J:176:VAL:N	2.29	0.66
2:J:457:GLU:HG3	2:J:458:ARG:N	2.11	0.66
2:J:473:PHE:O	2:J:475:ASP:N	2.29	0.66
3:N:276:LEU:HB3	3:N:301:PHE:HZ	1.59	0.66
3:P:184:SER:HA	3:P:421:ARG:HB2	1.78	0.66
3:R:184:SER:HA	3:R:421:ARG:HB2	1.78	0.66
3:V:117:LEU:CD2	3:V:126:THR:HG21	2.26	0.66
3:V:278:TRP:CD1	3:V:279:ILE:N	2.61	0.66
2:B:38:ILE:H	2:B:38:ILE:HD13	1.60	0.65
2:D:20:ALA:C	2:D:22:LEU:H	2.03	0.65
2:D:218:ALA:O	2:D:219:GLN:C	2.39	0.65
2:D:368:ASP:O	2:D:371:ARG:HB3	1.96	0.65
1:E:212:PHE:HE2	1:E:263:SER:HB3	1.60	0.65
1:E:421:THR:O	1:E:424:ARG:HB3	1.95	0.65
2:F:470:LEU:O	2:F:472:GLY:N	2.29	0.65
1:G:585:PRO:HG2	2:H:524:TYR:CZ	2.30	0.65
2:H:60:THR:CG2	2:H:61:ASP:H	2.05	0.65
2:H:238:GLN:O	2:H:242:GLU:HB2	1.96	0.65
1:I:430:GLY:O	1:I:432:TYR:N	2.29	0.65
2:L:123:CYS:O	2:L:126:LEU:HB3	1.96	0.65
2:L:184:LEU:HA	2:L:187:ILE:HD12	1.77	0.65
2:L:223:LEU:HA	2:L:226:LEU:HG	1.77	0.65
2:L:368:ASP:O	2:L:371:ARG:HB3	1.96	0.65
2:L:470:LEU:O	2:L:472:GLY:N	2.29	0.65
3:M:245:SER:HB3	3:M:252:THR:HB	1.77	0.65
3:N:43:GLU:C	3:N:45:MET:H	2.03	0.65
3:N:184:SER:HA	3:N:421:ARG:HB2	1.78	0.65
3:O:117:LEU:CD2	3:O:126:THR:HG21	2.27	0.65
4:W:86:ARG:O	4:W:90:LEU:HD23	1.96	0.65
1:A:521:VAL:HG13	1:A:522:THR:N	2.10	0.65
2:B:47:VAL:O	2:B:48:SER:C	2.39	0.65
2:D:298:PRO:O	2:D:302:PRO:CD	2.40	0.65
2:F:298:PRO:O	2:F:302:PRO:CD	2.40	0.65
1:G:46:ARG:HG2	1:G:73:LEU:HD21	1.78	0.65
2:H:144:CYS:O	2:H:147:LYS:N	2.29	0.65
1:K:97:GLN:CA	1:K:100:HIS:HB3	2.26	0.65
2:L:104:ALA:HB1	2:L:136:TYR:CD2	2.29	0.65
3:N:414:GLN:O	3:N:415:ASN:HB3	1.95	0.65
3:O:184:SER:HA	3:O:421:ARG:HB2	1.78	0.65
3:O:414:GLN:O	3:O:415:ASN:HB3	1.95	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:R:117:LEU:CD2	3:R:126:THR:HG21	2.27	0.65
4:U:117:PHE:O	4:U:124:GLN:HG2	1.97	0.65
3:V:117:LEU:HD23	3:V:126:THR:HG21	1.77	0.65
3:V:279:ILE:HG22	3:V:280:GLU:N	2.10	0.65
1:A:359:VAL:O	1:A:362:LYS:HB2	1.95	0.65
1:A:546:LYS:O	1:A:550:ILE:HG13	1.96	0.65
2:B:123:CYS:O	2:B:126:LEU:HB3	1.96	0.65
2:F:215:THR:HB	2:F:218:ALA:HB2	1.79	0.65
2:F:411:ILE:O	2:F:412:VAL:C	2.39	0.65
1:G:364:ARG:HH11	1:G:364:ARG:HG2	1.61	0.65
1:G:529:ALA:CA	1:G:532:LYS:HG3	2.24	0.65
2:H:473:PHE:CG	2:H:474:HIS:N	2.64	0.65
2:J:63:LEU:O	2:J:64:GLU:C	2.40	0.65
2:J:144:CYS:O	2:J:147:LYS:N	2.29	0.65
2:J:494:LYS:C	2:J:496:PRO:CD	2.67	0.65
2:L:35:LYS:CA	2:L:38:ILE:HD11	2.22	0.65
2:L:555:ILE:CG2	2:L:556:GLU:N	2.60	0.65
3:N:279:ILE:HG22	3:N:280:GLU:N	2.10	0.65
3:P:117:LEU:CD2	3:P:126:THR:HG21	2.27	0.65
3:P:278:TRP:CD1	3:P:279:ILE:N	2.61	0.65
3:P:414:GLN:O	3:P:415:ASN:HB3	1.95	0.65
3:R:279:ILE:HG22	3:R:280:GLU:N	2.10	0.65
4:S:86:ARG:O	4:S:90:LEU:HD23	1.96	0.65
4:X:117:PHE:O	4:X:124:GLN:HG2	1.97	0.65
1:A:74:ILE:HG23	1:A:86:TYR:CE1	2.27	0.65
1:A:430:GLY:O	1:A:432:TYR:N	2.29	0.65
1:A:581:LEU:C	1:A:583:ARG:H	2.04	0.65
2:B:494:LYS:C	2:B:496:PRO:CD	2.67	0.65
2:D:496:PRO:HB2	2:D:499:THR:CG2	2.22	0.65
1:E:97:GLN:CA	1:E:100:HIS:HB3	2.26	0.65
2:F:496:PRO:HB2	2:F:499:THR:CG2	2.22	0.65
1:G:188:HIS:O	1:G:189:GLY:C	2.39	0.65
2:H:215:THR:HB	2:H:218:ALA:HB2	1.79	0.65
2:H:470:LEU:O	2:H:472:GLY:N	2.29	0.65
1:I:46:ARG:HG2	1:I:73:LEU:HD21	1.78	0.65
2:J:473:PHE:CG	2:J:474:HIS:N	2.64	0.65
1:K:74:ILE:HG23	1:K:86:TYR:CE1	2.27	0.65
2:L:63:LEU:O	2:L:64:GLU:C	2.40	0.65
3:N:22:ARG:HG2	3:N:23:GLY:H	1.62	0.65
3:O:8:VAL:HG11	3:O:103:ILE:HD13	1.78	0.65
3:O:419:GLN:O	3:O:420:LEU:HD23	1.95	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:U:30:LYS:O	4:U:31:MET:C	2.39	0.65
3:V:321:ASP:OD1	3:V:361:GLY:N	2.30	0.65
2:B:223:LEU:HA	2:B:226:LEU:HG	1.77	0.65
2:B:555:ILE:CG2	2:B:556:GLU:N	2.60	0.65
2:D:457:GLU:HG3	2:D:458:ARG:N	2.11	0.65
2:F:223:LEU:HA	2:F:226:LEU:HG	1.77	0.65
1:G:540:THR:C	1:G:542:ASN:H	2.05	0.65
2:H:323:VAL:HG23	2:H:324:PHE:CD1	2.23	0.65
2:H:368:ASP:O	2:H:371:ARG:HB3	1.96	0.65
2:H:370:VAL:O	2:H:373:ALA:HB3	1.97	0.65
2:J:123:CYS:O	2:J:126:LEU:HB3	1.96	0.65
2:J:203:SER:O	2:J:207:LEU:HG	1.97	0.65
2:L:218:ALA:O	2:L:219:GLN:C	2.39	0.65
2:L:426:GLU:O	2:L:428:VAL:N	2.30	0.65
2:L:473:PHE:O	2:L:475:ASP:N	2.29	0.65
2:L:566:TYR:N	2:L:566:TYR:CD1	2.60	0.65
3:M:43:GLU:C	3:M:45:MET:H	2.03	0.65
3:M:184:SER:HA	3:M:421:ARG:HB2	1.78	0.65
3:N:8:VAL:HG11	3:N:103:ILE:HD13	1.78	0.65
4:Q:86:ARG:O	4:Q:90:LEU:HD23	1.96	0.65
4:T:30:LYS:HZ2	4:T:30:LYS:HB2	1.62	0.65
4:T:76:ASN:C	4:T:76:ASN:ND2	2.44	0.65
3:V:43:GLU:C	3:V:45:MET:H	2.03	0.65
3:V:276:LEU:HB3	3:V:301:PHE:HZ	1.59	0.65
4:X:30:LYS:O	4:X:31:MET:C	2.39	0.65
2:B:426:GLU:O	2:B:428:VAL:N	2.30	0.65
2:B:445:ARG:O	2:B:446:ALA:C	2.40	0.65
2:B:470:LEU:O	2:B:472:GLY:N	2.29	0.65
1:C:146:LEU:O	1:C:146:LEU:HD23	1.97	0.65
1:C:546:LYS:O	1:C:550:ILE:HG13	1.97	0.65
1:E:283:ASN:OD1	1:E:284:VAL:N	2.30	0.65
1:E:430:GLY:O	1:E:432:TYR:N	2.29	0.65
2:F:47:VAL:O	2:F:48:SER:C	2.39	0.65
2:F:218:ALA:O	2:F:219:GLN:C	2.39	0.65
2:F:368:ASP:O	2:F:371:ARG:HB3	1.96	0.65
2:H:55:VAL:O	2:H:58:MET:N	2.30	0.65
1:I:13:THR:HG22	1:I:26:MET:CE	2.27	0.65
2:J:47:VAL:O	2:J:48:SER:C	2.39	0.65
2:J:55:VAL:O	2:J:58:MET:N	2.30	0.65
1:K:267:MET:HE1	1:K:299:ILE:HD13	1.79	0.65
1:K:283:ASN:OD1	1:K:284:VAL:N	2.30	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:364:ARG:HH11	1:K:364:ARG:HG2	1.61	0.65
1:K:532:LYS:HB3	1:K:536:ARG:HH11	1.60	0.65
2:L:139:LYS:HD3	2:L:175:MET:CE	2.14	0.65
2:L:408:GLN:O	2:L:409:GLU:C	2.38	0.65
2:L:494:LYS:C	2:L:496:PRO:CD	2.67	0.65
4:S:35:LEU:C	4:S:39:VAL:HG23	2.22	0.65
3:V:245:SER:HB3	3:V:252:THR:HB	1.77	0.65
4:W:71:ILE:HG21	4:W:75:ASP:HB3	1.79	0.65
2:B:184:LEU:HA	2:B:187:ILE:HD12	1.77	0.65
2:B:370:VAL:O	2:B:373:ALA:HB3	1.97	0.65
2:B:405:TYR:CD1	2:B:406:VAL:N	2.65	0.65
1:C:364:ARG:HH11	1:C:364:ARG:HG2	1.61	0.65
1:E:46:ARG:HG2	1:E:73:LEU:HD21	1.78	0.65
2:F:323:VAL:HG23	2:F:324:PHE:CD1	2.23	0.65
2:F:491:LEU:HD13	2:F:499:THR:CG2	2.25	0.65
1:G:546:LYS:O	1:G:550:ILE:HG13	1.97	0.65
1:I:97:GLN:CA	1:I:100:HIS:HB3	2.26	0.65
2:J:35:LYS:CA	2:J:38:ILE:HD11	2.22	0.65
2:J:555:ILE:CG2	2:J:556:GLU:N	2.60	0.65
2:L:174:PRO:O	2:L:176:VAL:N	2.29	0.65
2:L:370:VAL:O	2:L:373:ALA:HB3	1.97	0.65
2:L:405:TYR:CD1	2:L:406:VAL:N	2.65	0.65
3:M:278:TRP:CD1	3:M:279:ILE:N	2.61	0.65
3:M:409:VAL:HG12	3:M:410:ARG:H	1.62	0.65
3:P:279:ILE:HG22	3:P:280:GLU:N	2.10	0.65
4:S:88:VAL:HG23	4:S:89:GLU:N	2.12	0.65
4:T:35:LEU:C	4:T:39:VAL:HG23	2.22	0.65
4:U:88:VAL:HG23	4:U:89:GLU:N	2.12	0.65
4:W:35:LEU:C	4:W:39:VAL:HG23	2.22	0.65
1:A:10:LEU:O	1:A:14:ILE:HD12	1.97	0.65
2:B:55:VAL:O	2:B:58:MET:N	2.30	0.65
1:C:267:MET:HE1	1:C:299:ILE:HD13	1.79	0.65
2:D:370:VAL:O	2:D:373:ALA:HB3	1.97	0.65
2:D:426:GLU:O	2:D:428:VAL:N	2.30	0.65
1:E:546:LYS:O	1:E:550:ILE:HG13	1.97	0.65
2:F:457:GLU:HG3	2:F:458:ARG:N	2.11	0.65
2:H:47:VAL:O	2:H:48:SER:C	2.39	0.65
2:H:555:ILE:CG2	2:H:556:GLU:N	2.59	0.65
2:J:219:GLN:O	2:J:223:LEU:HG	1.97	0.65
2:J:255:VAL:CG2	2:J:256:VAL:H	2.06	0.65
2:J:370:VAL:O	2:J:373:ALA:HB3	1.97	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:219:GLN:O	2:L:223:LEU:HG	1.97	0.65
2:L:445:ARG:O	2:L:446:ALA:C	2.40	0.65
3:M:22:ARG:HG2	3:M:23:GLY:H	1.62	0.65
3:M:117:LEU:CD2	3:M:126:THR:HG21	2.27	0.65
3:M:321:ASP:OD1	3:M:361:GLY:N	2.30	0.65
3:N:117:LEU:CD2	3:N:126:THR:HG21	2.26	0.65
3:O:279:ILE:HG22	3:O:280:GLU:N	2.10	0.65
4:Q:30:LYS:O	4:Q:31:MET:C	2.39	0.65
3:R:8:VAL:HG11	3:R:103:ILE:HD13	1.78	0.65
3:R:414:GLN:O	3:R:415:ASN:HB3	1.95	0.65
4:X:8:PHE:N	4:X:8:PHE:CD2	2.65	0.65
4:X:71:ILE:HG21	4:X:75:ASP:HB3	1.79	0.65
2:D:123:CYS:O	2:D:126:LEU:HB3	1.96	0.65
2:D:144:CYS:O	2:D:147:LYS:N	2.29	0.65
2:D:215:THR:HB	2:D:218:ALA:HB2	1.79	0.65
1:E:364:ARG:HH11	1:E:364:ARG:HG2	1.61	0.65
2:F:31:LYS:CD	2:F:64:GLU:HG2	2.27	0.65
2:F:219:GLN:O	2:F:223:LEU:HG	1.97	0.65
2:F:255:VAL:CG2	2:F:256:VAL:H	2.06	0.65
2:H:35:LYS:CA	2:H:38:ILE:HD11	2.22	0.65
1:I:188:HIS:O	1:I:189:GLY:C	2.39	0.65
2:J:166:LYS:HA	2:J:169:ILE:CD1	2.27	0.65
2:J:238:GLN:O	2:J:242:GLU:HB2	1.96	0.65
2:J:405:TYR:CD1	2:J:406:VAL:N	2.65	0.65
2:J:426:GLU:O	2:J:428:VAL:N	2.30	0.65
1:K:146:LEU:O	1:K:146:LEU:HD23	1.96	0.65
2:L:304:ARG:O	2:L:307:ASN:HB3	1.97	0.65
2:L:391:CYS:O	2:L:392:VAL:C	2.39	0.65
2:L:570:LEU:HD23	3:V:77:VAL:HG22	1.77	0.65
3:M:414:GLN:O	3:M:415:ASN:HB3	1.95	0.65
3:O:43:GLU:C	3:O:45:MET:H	2.03	0.65
4:U:11:GLN:CD	4:U:11:GLN:N	2.51	0.65
4:W:76:ASN:C	4:W:76:ASN:ND2	2.44	0.65
1:A:364:ARG:HH11	1:A:364:ARG:HG2	1.61	0.65
2:B:238:GLN:O	2:B:242:GLU:HB2	1.96	0.65
2:B:367:VAL:O	2:B:368:ASP:C	2.40	0.65
2:D:20:ALA:O	2:D:22:LEU:N	2.30	0.65
2:D:367:VAL:O	2:D:368:ASP:C	2.40	0.65
2:D:466:LEU:HD12	2:D:466:LEU:N	2.10	0.65
1:E:188:HIS:O	1:E:189:GLY:C	2.39	0.65
2:F:16:PHE:HZ	3:M:416:GLY:HA3	1.61	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:370:VAL:O	2:F:373:ALA:HB3	1.97	0.65
2:F:408:GLN:O	2:F:409:GLU:C	2.38	0.65
1:G:531:MET:SD	1:G:566:TYR:HD2	2.20	0.65
1:I:283:ASN:OD1	1:I:284:VAL:N	2.30	0.65
2:J:391:CYS:O	2:J:392:VAL:C	2.39	0.65
1:K:46:ARG:HG2	1:K:73:LEU:HD21	1.78	0.65
1:K:187:ASN:ND2	1:K:187:ASN:C	2.55	0.65
1:K:254:ARG:HB2	1:K:295:THR:HG23	1.79	0.65
1:K:478:TRP:CH2	2:L:521:ASP:OD1	2.50	0.65
3:P:321:ASP:CG	3:P:322:SER:N	2.55	0.65
4:U:71:ILE:HG21	4:U:75:ASP:HB3	1.79	0.65
1:A:44:THR:HG22	1:A:45:TYR:CD1	2.32	0.64
1:A:97:GLN:CA	1:A:100:HIS:HB3	2.26	0.64
1:A:323:ASN:O	1:A:324:ILE:C	2.40	0.64
1:A:370:PHE:O	1:A:373:VAL:HG23	1.98	0.64
2:B:63:LEU:O	2:B:64:GLU:C	2.40	0.64
2:B:148:LEU:H	2:B:148:LEU:HD12	1.62	0.64
2:B:408:GLN:O	2:B:409:GLU:C	2.38	0.64
2:B:411:ILE:O	2:B:412:VAL:C	2.39	0.64
1:C:10:LEU:O	1:C:14:ILE:HD12	1.97	0.64
1:E:540:THR:C	1:E:542:ASN:H	2.05	0.64
2:F:166:LYS:HA	2:F:169:ILE:CD1	2.27	0.64
2:H:203:SER:O	2:H:207:LEU:HG	1.97	0.64
2:H:367:VAL:O	2:H:368:ASP:C	2.41	0.64
2:H:426:GLU:O	2:H:428:VAL:N	2.30	0.64
2:J:220:ILE:HG22	2:J:221:PHE:N	2.12	0.64
1:K:323:ASN:O	1:K:324:ILE:C	2.40	0.64
1:K:394:PRO:HB2	1:K:395:GLU:OE2	1.97	0.64
1:K:581:LEU:C	1:K:583:ARG:H	2.04	0.64
3:M:271:THR:O	3:M:273:VAL:HG23	1.96	0.64
3:N:271:THR:O	3:N:273:VAL:HG23	1.96	0.64
3:R:22:ARG:HG2	3:R:23:GLY:H	1.62	0.64
4:T:30:LYS:O	4:T:31:MET:C	2.39	0.64
1:C:531:MET:SD	1:C:566:TYR:HD2	2.21	0.64
2:D:203:SER:O	2:D:207:LEU:HG	1.97	0.64
1:E:44:THR:HG22	1:E:45:TYR:CD1	2.32	0.64
2:F:304:ARG:O	2:F:307:ASN:HB3	1.97	0.64
2:F:555:ILE:CG2	2:F:556:GLU:N	2.60	0.64
1:G:187:ASN:ND2	1:G:187:ASN:C	2.55	0.64
1:G:478:TRP:CH2	2:H:521:ASP:OD1	2.50	0.64
2:H:31:LYS:CD	2:H:64:GLU:HG2	2.27	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:63:LEU:O	2:H:64:GLU:C	2.40	0.64
2:H:220:ILE:HG22	2:H:221:PHE:N	2.12	0.64
1:I:323:ASN:O	1:I:324:ILE:C	2.40	0.64
1:I:478:TRP:CH2	2:J:521:ASP:OD1	2.50	0.64
1:K:489:SER:H	1:K:500:VAL:CG1	2.11	0.64
4:Q:35:LEU:C	4:Q:39:VAL:HG23	2.22	0.64
4:Q:71:ILE:HG21	4:Q:75:ASP:HB3	1.79	0.64
4:Q:88:VAL:HG23	4:Q:89:GLU:N	2.12	0.64
3:R:233:LEU:HD13	3:R:269:LEU:HD22	1.80	0.64
1:A:46:ARG:HG2	1:A:73:LEU:HD21	1.78	0.64
1:A:146:LEU:O	1:A:146:LEU:HD23	1.96	0.64
2:B:578:PRO:O	2:B:582:VAL:HG23	1.97	0.64
1:C:283:ASN:OD1	1:C:284:VAL:N	2.30	0.64
1:C:581:LEU:C	1:C:583:ARG:H	2.04	0.64
2:D:25:ASP:O	2:D:26:LYS:C	2.41	0.64
2:D:445:ARG:O	2:D:446:ALA:C	2.40	0.64
2:F:63:LEU:O	2:F:64:GLU:C	2.40	0.64
1:G:10:LEU:O	1:G:14:ILE:HD12	1.97	0.64
1:G:97:GLN:CA	1:G:100:HIS:HB3	2.26	0.64
2:H:405:TYR:CD1	2:H:406:VAL:N	2.65	0.64
1:I:135:CYS:CB	1:I:164:VAL:HG13	2.22	0.64
1:I:408:ALA:O	1:I:412:ALA:HB2	1.98	0.64
1:I:546:LYS:O	1:I:550:ILE:HG13	1.97	0.64
2:J:25:ASP:O	2:J:26:LYS:C	2.41	0.64
2:J:31:LYS:CD	2:J:64:GLU:HG2	2.27	0.64
2:J:38:ILE:H	2:J:38:ILE:HD13	1.60	0.64
2:L:20:ALA:C	2:L:22:LEU:H	2.03	0.64
2:L:367:VAL:O	2:L:368:ASP:C	2.40	0.64
3:M:8:VAL:HG11	3:M:103:ILE:HD13	1.78	0.64
3:M:399:GLU:HG3	3:M:401:SER:H	1.63	0.64
4:U:35:LEU:C	4:U:39:VAL:HG23	2.22	0.64
4:W:30:LYS:O	4:W:31:MET:C	2.39	0.64
4:W:117:PHE:O	4:W:124:GLN:HG2	1.97	0.64
2:B:218:ALA:O	2:B:219:GLN:C	2.39	0.64
2:B:219:GLN:O	2:B:223:LEU:HG	1.97	0.64
1:C:394:PRO:HB2	1:C:395:GLU:OE2	1.97	0.64
2:D:31:LYS:CD	2:D:64:GLU:HG2	2.27	0.64
2:D:184:LEU:HA	2:D:187:ILE:HD12	1.77	0.64
2:D:555:ILE:CG2	2:D:556:GLU:N	2.60	0.64
1:E:356:ASP:O	1:E:362:LYS:HE2	1.98	0.64
1:E:489:SER:H	1:E:500:VAL:CG1	2.10	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:55:VAL:O	2:F:58:MET:N	2.30	0.64
2:F:467:GLU:HA	2:F:470:LEU:HD23	1.80	0.64
1:G:356:ASP:O	1:G:362:LYS:HE2	1.98	0.64
2:H:148:LEU:H	2:H:148:LEU:HD12	1.62	0.64
2:H:298:PRO:O	2:H:300:TYR:N	2.31	0.64
2:J:35:LYS:HE2	3:R:137:GLN:HE21	1.63	0.64
1:K:370:PHE:O	1:K:373:VAL:HG23	1.98	0.64
1:K:546:LYS:O	1:K:550:ILE:HG13	1.96	0.64
2:L:473:PHE:CG	2:L:474:HIS:N	2.64	0.64
3:M:415:ASN:CG	3:M:416:GLY:H	2.05	0.64
3:O:129:LYS:C	3:O:131:LEU:H	2.06	0.64
3:O:321:ASP:OD1	3:O:361:GLY:N	2.30	0.64
4:Q:117:PHE:O	4:Q:124:GLN:HG2	1.97	0.64
4:S:30:LYS:O	4:S:31:MET:C	2.39	0.64
4:S:76:ASN:ND2	4:S:79:ILE:H	1.96	0.64
4:T:71:ILE:HG21	4:T:75:ASP:HB3	1.79	0.64
1:A:212:PHE:HE2	1:A:263:SER:HB3	1.60	0.64
1:A:364:ARG:O	1:A:365:ALA:C	2.37	0.64
2:B:31:LYS:CD	2:B:64:GLU:HG2	2.27	0.64
2:B:298:PRO:O	2:B:300:TYR:N	2.31	0.64
2:B:391:CYS:O	2:B:392:VAL:C	2.39	0.64
1:C:370:PHE:O	1:C:373:VAL:HG23	1.98	0.64
2:D:35:LYS:HE2	3:N:137:GLN:HE21	1.63	0.64
2:D:415:LYS:HD2	2:D:447:ALA:HB1	1.80	0.64
1:E:267:MET:HE1	1:E:299:ILE:HD13	1.78	0.64
2:F:20:ALA:O	2:F:22:LEU:N	2.30	0.64
2:F:426:GLU:O	2:F:428:VAL:N	2.30	0.64
1:G:254:ARG:HB2	1:G:295:THR:HG23	1.79	0.64
1:G:394:PRO:HB2	1:G:395:GLU:OE2	1.98	0.64
1:I:489:SER:H	1:I:500:VAL:CG1	2.10	0.64
2:J:20:ALA:O	2:J:22:LEU:N	2.30	0.64
2:J:148:LEU:HD12	2:J:148:LEU:H	1.62	0.64
2:J:218:ALA:O	2:J:219:GLN:C	2.39	0.64
2:J:304:ARG:O	2:J:307:ASN:HB3	1.97	0.64
1:K:10:LEU:O	1:K:14:ILE:HD12	1.97	0.64
1:K:44:THR:HG22	1:K:45:TYR:CD1	2.32	0.64
1:K:532:LYS:HB3	1:K:536:ARG:HH12	1.62	0.64
2:L:215:THR:HB	2:L:218:ALA:HB2	1.79	0.64
2:L:238:GLN:O	2:L:242:GLU:HB2	1.97	0.64
3:M:233:LEU:HD13	3:M:269:LEU:HD22	1.80	0.64
3:P:99:GLU:O	3:P:100:GLU:C	2.41	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:T:88:VAL:HG23	4:T:89:GLU:N	2.12	0.64
4:T:117:PHE:O	4:T:124:GLN:HG2	1.97	0.64
3:V:399:GLU:HG3	3:V:401:SER:H	1.63	0.64
4:X:35:LEU:C	4:X:39:VAL:HG23	2.22	0.64
2:B:369:PHE:O	2:B:370:VAL:C	2.41	0.64
1:C:482:GLU:OE2	1:C:584:MET:HB3	1.98	0.64
2:D:63:LEU:O	2:D:64:GLU:C	2.40	0.64
2:D:238:GLN:O	2:D:242:GLU:HB2	1.96	0.64
2:D:467:GLU:HA	2:D:470:LEU:HD23	1.80	0.64
1:E:146:LEU:O	1:E:146:LEU:HD23	1.96	0.64
1:E:394:PRO:HB2	1:E:395:GLU:OE2	1.97	0.64
1:E:478:TRP:CH2	2:F:521:ASP:OD1	2.50	0.64
1:E:482:GLU:OE2	1:E:584:MET:HB3	1.98	0.64
2:F:184:LEU:HA	2:F:187:ILE:HD12	1.77	0.64
2:F:203:SER:O	2:F:207:LEU:HG	1.97	0.64
1:G:146:LEU:O	1:G:146:LEU:HD23	1.96	0.64
1:G:581:LEU:C	1:G:583:ARG:H	2.04	0.64
2:H:300:TYR:O	2:H:301:VAL:C	2.41	0.64
2:H:445:ARG:O	2:H:446:ALA:C	2.40	0.64
1:I:531:MET:SD	1:I:566:TYR:HD2	2.20	0.64
1:K:531:MET:SD	1:K:566:TYR:HD2	2.20	0.64
2:L:260:VAL:HA	2:L:263:LEU:HD12	1.80	0.64
3:M:279:ILE:HG22	3:M:280:GLU:N	2.10	0.64
3:N:22:ARG:CG	3:N:23:GLY:H	2.11	0.64
3:N:321:ASP:CG	3:N:322:SER:N	2.55	0.64
3:O:99:GLU:O	3:O:100:GLU:C	2.41	0.64
3:O:334:TRP:CD1	3:O:335:VAL:H	2.16	0.64
3:P:8:VAL:HG11	3:P:103:ILE:HD13	1.78	0.64
3:P:334:TRP:CD1	3:P:335:VAL:H	2.16	0.64
3:P:399:GLU:HG3	3:P:401:SER:H	1.63	0.64
4:S:71:ILE:HG21	4:S:75:ASP:HB3	1.79	0.64
4:X:8:PHE:HD2	4:X:8:PHE:N	1.96	0.64
1:A:283:ASN:OD1	1:A:284:VAL:N	2.30	0.64
2:B:304:ARG:O	2:B:307:ASN:HB3	1.97	0.64
1:C:285:GLY:O	1:C:288:ILE:N	2.31	0.64
2:D:141:ALA:O	2:D:142:ALA:C	2.38	0.64
2:F:298:PRO:O	2:F:300:TYR:N	2.31	0.64
2:H:304:ARG:O	2:H:307:ASN:HB3	1.97	0.64
1:I:267:MET:HE1	1:I:299:ILE:HD13	1.78	0.64
2:J:367:VAL:O	2:J:368:ASP:C	2.40	0.64
1:K:285:GLY:O	1:K:288:ILE:N	2.31	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:148:LEU:H	2:L:148:LEU:HD12	1.62	0.64
3:M:65:LEU:HD11	3:M:99:GLU:N	2.13	0.64
3:N:129:LYS:C	3:N:131:LEU:H	2.06	0.64
3:N:233:LEU:HD13	3:N:269:LEU:HD22	1.80	0.64
3:O:65:LEU:HD11	3:O:99:GLU:N	2.13	0.64
4:Q:76:ASN:ND2	4:Q:79:ILE:H	1.96	0.64
3:R:321:ASP:OD1	3:R:361:GLY:N	2.30	0.64
4:T:7:LEU:HD11	4:T:67:PHE:CE2	2.33	0.64
3:V:8:VAL:HG11	3:V:103:ILE:HD13	1.78	0.64
3:V:62:HIS:O	3:V:63:ASN:C	2.41	0.64
1:A:267:MET:HE1	1:A:299:ILE:HD13	1.78	0.64
1:A:478:TRP:CH2	2:B:521:ASP:OD1	2.50	0.64
1:A:482:GLU:CB	1:A:584:MET:SD	2.76	0.64
1:C:44:THR:HG22	1:C:45:TYR:CD1	2.32	0.64
1:E:408:ALA:O	1:E:412:ALA:HB2	1.98	0.64
2:F:317:LEU:HD22	2:F:317:LEU:N	2.13	0.64
2:F:367:VAL:O	2:F:368:ASP:C	2.40	0.64
1:G:44:THR:HG22	1:G:45:TYR:CD1	2.32	0.64
1:G:283:ASN:OD1	1:G:284:VAL:N	2.30	0.64
1:I:10:LEU:O	1:I:14:ILE:HD12	1.97	0.64
1:I:44:THR:HG22	1:I:45:TYR:CD1	2.32	0.64
1:I:146:LEU:O	1:I:146:LEU:HD23	1.96	0.64
1:K:140:GLY:O	1:K:143:GLU:N	2.31	0.64
2:L:31:LYS:CD	2:L:64:GLU:HG2	2.27	0.64
2:L:426:GLU:O	2:L:427:SER:C	2.41	0.64
3:N:409:VAL:HG12	3:N:410:ARG:H	1.62	0.64
3:P:22:ARG:CG	3:P:23:GLY:H	2.11	0.64
4:Q:8:PHE:N	4:Q:8:PHE:CD2	2.65	0.64
3:R:65:LEU:HD11	3:R:99:GLU:N	2.13	0.64
4:U:100:GLU:O	4:U:101:LEU:C	2.41	0.64
3:V:65:LEU:HD11	3:V:99:GLU:N	2.13	0.64
3:V:414:GLN:O	3:V:415:ASN:HB3	1.95	0.64
4:X:31:MET:HE2	4:X:52:TRP:HH2	1.63	0.64
4:X:76:ASN:ND2	4:X:79:ILE:H	1.96	0.64
1:A:482:GLU:OE2	1:A:584:MET:HB3	1.98	0.64
2:B:20:ALA:O	2:B:22:LEU:N	2.30	0.64
1:C:74:ILE:HG23	1:C:86:TYR:CE1	2.27	0.64
1:C:478:TRP:CH2	2:D:521:ASP:OD1	2.50	0.64
2:D:134:ASP:HB2	2:D:137:VAL:HG23	1.80	0.64
2:D:298:PRO:O	2:D:300:TYR:N	2.31	0.64
1:E:370:PHE:O	1:E:373:VAL:HG23	1.98	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:449:VAL:HA	1:E:452:HIS:NE2	2.13	0.64
2:F:300:TYR:O	2:F:301:VAL:C	2.41	0.64
1:G:323:ASN:O	1:G:324:ILE:C	2.40	0.64
1:G:425:VAL:HG13	1:G:426:LEU:N	2.13	0.64
2:H:35:LYS:HE2	3:P:137:GLN:HE21	1.63	0.64
2:H:219:GLN:O	2:H:223:LEU:HG	1.97	0.64
2:J:60:THR:CG2	2:J:61:ASP:H	2.05	0.64
2:J:467:GLU:HA	2:J:470:LEU:HD23	1.80	0.64
2:L:55:VAL:O	2:L:58:MET:N	2.30	0.64
2:L:166:LYS:HA	2:L:169:ILE:CD1	2.27	0.64
2:L:415:LYS:HD2	2:L:447:ALA:HB1	1.80	0.64
3:M:334:TRP:CD1	3:M:335:VAL:H	2.16	0.64
3:N:245:SER:HB3	3:N:252:THR:HB	1.77	0.64
3:O:245:SER:HB3	3:O:252:THR:HB	1.77	0.64
3:P:65:LEU:HD11	3:P:99:GLU:N	2.13	0.64
4:S:117:PHE:O	4:S:124:GLN:HG2	1.97	0.64
4:T:76:ASN:ND2	4:T:79:ILE:H	1.96	0.64
4:U:8:PHE:N	4:U:8:PHE:CD2	2.65	0.64
1:A:394:PRO:HB2	1:A:395:GLU:OE2	1.98	0.64
2:B:415:LYS:HD2	2:B:447:ALA:HB1	1.80	0.64
2:D:55:VAL:O	2:D:58:MET:N	2.30	0.64
1:E:531:MET:SD	1:E:566:TYR:HD2	2.20	0.64
2:H:260:VAL:HA	2:H:263:LEU:HD12	1.80	0.64
2:H:385:GLU:C	2:H:387:SER:H	2.06	0.64
2:H:482:LEU:O	2:H:483:GLN:C	2.41	0.64
2:H:482:LEU:O	2:H:485:LEU:N	2.31	0.64
1:I:140:GLY:O	1:I:143:GLU:N	2.31	0.64
1:I:540:THR:C	1:I:542:ASN:H	2.05	0.64
2:J:134:ASP:HB2	2:J:137:VAL:HG23	1.80	0.64
2:J:215:THR:HB	2:J:218:ALA:HB2	1.79	0.64
2:J:255:VAL:HG23	2:J:256:VAL:N	2.05	0.64
1:K:408:ALA:O	1:K:412:ALA:HB2	1.98	0.64
1:K:540:THR:C	1:K:542:ASN:H	2.05	0.64
2:L:20:ALA:O	2:L:22:LEU:N	2.30	0.64
2:L:203:SER:O	2:L:207:LEU:HG	1.97	0.64
2:L:220:ILE:HG22	2:L:221:PHE:N	2.12	0.64
4:Q:100:GLU:O	4:Q:101:LEU:C	2.41	0.64
3:R:99:GLU:O	3:R:100:GLU:C	2.41	0.64
4:T:40:LEU:O	4:T:42:ARG:N	2.31	0.64
3:V:129:LYS:C	3:V:131:LEU:H	2.06	0.64
1:A:408:ALA:O	1:A:412:ALA:HB2	1.98	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:25:ASP:O	2:B:26:LYS:C	2.41	0.63
2:B:35:LYS:HE2	3:M:137:GLN:HE21	1.63	0.63
2:B:215:THR:HB	2:B:218:ALA:HB2	1.79	0.63
2:D:300:TYR:O	2:D:301:VAL:C	2.41	0.63
2:D:369:PHE:O	2:D:370:VAL:C	2.41	0.63
1:E:10:LEU:O	1:E:14:ILE:HD12	1.97	0.63
1:E:13:THR:HG22	1:E:26:MET:CE	2.27	0.63
2:F:426:GLU:O	2:F:427:SER:C	2.41	0.63
2:F:491:LEU:O	2:F:496:PRO:HD2	1.99	0.63
1:G:267:MET:HE1	1:G:299:ILE:HD13	1.78	0.63
2:H:20:ALA:O	2:H:22:LEU:N	2.30	0.63
2:H:467:GLU:HA	2:H:470:LEU:HD23	1.80	0.63
1:K:188:HIS:O	1:K:189:GLY:C	2.39	0.63
1:K:356:ASP:O	1:K:362:LYS:HE2	1.98	0.63
2:L:14:GLU:O	2:L:15:ILE:C	2.41	0.63
3:N:99:GLU:O	3:N:100:GLU:C	2.41	0.63
3:P:175:VAL:HG12	3:P:198:ILE:HG12	1.80	0.63
3:P:321:ASP:OD1	3:P:361:GLY:N	2.30	0.63
3:R:415:ASN:CG	3:R:416:GLY:H	2.05	0.63
3:V:415:ASN:CG	3:V:416:GLY:H	2.05	0.63
2:B:60:THR:CG2	2:B:61:ASP:H	2.05	0.63
2:B:203:SER:O	2:B:207:LEU:HG	1.97	0.63
2:B:521:ASP:C	2:B:523:GLY:N	2.55	0.63
1:C:140:GLY:O	1:C:143:GLU:N	2.31	0.63
1:C:356:ASP:O	1:C:362:LYS:HE2	1.98	0.63
1:C:451:MET:HE2	1:C:451:MET:H	1.64	0.63
1:C:489:SER:H	1:C:500:VAL:CG1	2.10	0.63
2:D:304:ARG:O	2:D:307:ASN:HB3	1.97	0.63
1:E:140:GLY:O	1:E:143:GLU:N	2.31	0.63
1:E:187:ASN:ND2	1:E:187:ASN:C	2.55	0.63
1:E:581:LEU:C	1:E:583:ARG:H	2.04	0.63
1:G:489:SER:H	1:G:500:VAL:CG1	2.10	0.63
2:H:173:ASN:O	2:H:174:PRO:O	2.17	0.63
2:H:216:GLU:HB2	2:H:217:TRP:CZ3	2.33	0.63
2:H:225:CYS:C	2:H:227:GLY:H	2.06	0.63
1:I:44:THR:O	1:I:45:TYR:HB2	1.99	0.63
1:I:364:ARG:HH11	1:I:364:ARG:HG2	1.61	0.63
2:J:385:GLU:C	2:J:387:SER:H	2.06	0.63
1:K:429:ALA:O	1:K:431:SER:N	2.32	0.63
3:N:65:LEU:HD11	3:N:99:GLU:N	2.13	0.63
3:O:22:ARG:HG2	3:O:23:GLY:H	1.62	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:O:233:LEU:HD13	3:O:269:LEU:HD22	1.80	0.63
3:P:129:LYS:C	3:P:131:LEU:H	2.06	0.63
4:S:8:PHE:HD2	4:S:8:PHE:N	1.96	0.63
4:U:7:LEU:HD11	4:U:67:PHE:CE2	2.33	0.63
3:V:22:ARG:HG2	3:V:23:GLY:H	1.62	0.63
4:W:7:LEU:HD11	4:W:67:PHE:CE2	2.33	0.63
4:X:7:LEU:HD11	4:X:67:PHE:CE2	2.33	0.63
1:A:99:VAL:CG2	1:A:100:HIS:N	2.61	0.63
1:A:190:VAL:O	1:A:191:LEU:C	2.41	0.63
1:C:425:VAL:HG13	1:C:426:LEU:N	2.13	0.63
1:C:451:MET:H	1:C:451:MET:CE	2.12	0.63
2:D:148:LEU:H	2:D:148:LEU:HD12	1.62	0.63
2:F:148:LEU:H	2:F:148:LEU:HD12	1.62	0.63
1:G:44:THR:O	1:G:45:TYR:HB2	1.99	0.63
1:G:140:GLY:O	1:G:143:GLU:N	2.31	0.63
1:G:482:GLU:OE2	1:G:584:MET:HB3	1.98	0.63
1:I:370:PHE:O	1:I:373:VAL:HG23	1.98	0.63
1:K:124:CYS:HA	4:W:119:MET:SD	2.39	0.63
2:L:298:PRO:O	2:L:300:TYR:N	2.31	0.63
2:L:300:TYR:O	2:L:301:VAL:C	2.41	0.63
2:L:369:PHE:O	2:L:370:VAL:C	2.41	0.63
2:L:482:LEU:O	2:L:485:LEU:N	2.31	0.63
3:R:130:ILE:HG22	3:R:130:ILE:O	1.98	0.63
4:S:7:LEU:HD11	4:S:67:PHE:CE2	2.33	0.63
4:U:31:MET:HE2	4:U:52:TRP:HH2	1.63	0.63
1:A:400:CYS:O	1:A:401:ALA:C	2.42	0.63
1:C:429:ALA:O	1:C:431:SER:N	2.32	0.63
2:D:482:LEU:O	2:D:485:LEU:N	2.31	0.63
2:D:491:LEU:O	2:D:496:PRO:HD2	1.99	0.63
1:E:532:LYS:HB3	1:E:536:ARG:HH12	1.62	0.63
1:G:370:PHE:O	1:G:373:VAL:HG23	1.98	0.63
1:G:408:ALA:O	1:G:412:ALA:HB2	1.98	0.63
2:H:191:HIS:HA	2:H:195:ASN:HD21	1.64	0.63
2:H:218:ALA:O	2:H:219:GLN:C	2.39	0.63
1:I:429:ALA:O	1:I:431:SER:N	2.32	0.63
1:I:451:MET:HE2	1:I:451:MET:H	1.63	0.63
2:J:148:LEU:HD12	2:J:148:LEU:N	2.13	0.63
2:J:482:LEU:O	2:J:483:GLN:C	2.41	0.63
1:K:190:VAL:O	1:K:191:LEU:C	2.42	0.63
1:K:285:GLY:O	1:K:288:ILE:HB	1.99	0.63
1:K:482:GLU:OE2	1:K:584:MET:HB3	1.98	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:491:LEU:O	2:L:496:PRO:HD2	1.98	0.63
3:N:334:TRP:CD1	3:N:335:VAL:H	2.16	0.63
3:O:409:VAL:HG12	3:O:410:ARG:H	1.62	0.63
4:Q:31:MET:HE2	4:Q:52:TRP:HH2	1.63	0.63
3:R:321:ASP:CG	3:R:322:SER:N	2.55	0.63
4:T:8:PHE:N	4:T:8:PHE:CD2	2.65	0.63
4:U:40:LEU:O	4:U:42:ARG:N	2.31	0.63
3:V:22:ARG:CG	3:V:23:GLY:H	2.11	0.63
3:V:334:TRP:CD1	3:V:335:VAL:H	2.16	0.63
1:A:489:SER:H	1:A:500:VAL:CG1	2.10	0.63
2:B:127:ARG:O	2:B:130:LEU:HB2	1.99	0.63
2:B:220:ILE:HG22	2:B:221:PHE:N	2.12	0.63
2:B:225:CYS:C	2:B:227:GLY:H	2.06	0.63
2:B:467:GLU:HA	2:B:470:LEU:HD23	1.80	0.63
2:D:219:GLN:O	2:D:223:LEU:HG	1.97	0.63
2:D:385:GLU:C	2:D:387:SER:H	2.06	0.63
1:E:99:VAL:CG2	1:E:100:HIS:N	2.61	0.63
1:E:254:ARG:HB2	1:E:295:THR:HG23	1.80	0.63
2:F:415:LYS:HD2	2:F:447:ALA:HB1	1.80	0.63
1:G:285:GLY:O	1:G:288:ILE:N	2.31	0.63
1:G:285:GLY:O	1:G:288:ILE:HB	1.99	0.63
2:H:14:GLU:O	2:H:15:ILE:C	2.42	0.63
2:H:521:ASP:C	2:H:523:GLY:N	2.55	0.63
1:I:285:GLY:O	1:I:288:ILE:HB	1.98	0.63
1:I:285:GLY:O	1:I:288:ILE:N	2.31	0.63
1:I:394:PRO:HB2	1:I:395:GLU:OE2	1.97	0.63
2:J:173:ASN:O	2:J:174:PRO:O	2.17	0.63
2:J:225:CYS:C	2:J:227:GLY:H	2.06	0.63
2:J:300:TYR:O	2:J:301:VAL:C	2.41	0.63
1:K:252:LEU:O	1:K:255:ILE:HG22	1.98	0.63
1:K:424:ARG:HH11	1:K:424:ARG:HG2	1.64	0.63
1:K:449:VAL:HA	1:K:452:HIS:NE2	2.13	0.63
1:K:482:GLU:CB	1:K:584:MET:SD	2.76	0.63
2:L:25:ASP:O	2:L:26:LYS:C	2.41	0.63
2:L:134:ASP:HB2	2:L:137:VAL:HG23	1.80	0.63
2:L:216:GLU:HB2	2:L:217:TRP:CZ3	2.33	0.63
2:L:255:VAL:CG2	2:L:256:VAL:H	2.06	0.63
2:L:473:PHE:CD1	2:L:474:HIS:N	2.67	0.63
3:O:77:VAL:O	3:O:78:SER:C	2.42	0.63
3:O:415:ASN:CG	3:O:416:GLY:H	2.05	0.63
4:T:31:MET:HE2	4:T:52:TRP:HH2	1.63	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:U:76:ASN:ND2	4:U:79:ILE:H	1.96	0.63
3:V:321:ASP:CG	3:V:322:SER:N	2.55	0.63
1:A:252:LEU:O	1:A:255:ILE:HG22	1.99	0.63
1:C:188:HIS:O	1:C:189:GLY:C	2.39	0.63
1:C:252:LEU:O	1:C:255:ILE:HG22	1.99	0.63
1:C:271:LEU:HD12	1:C:296:ILE:CG1	2.29	0.63
1:C:532:LYS:HB3	1:C:536:ARG:HH12	1.62	0.63
1:C:540:THR:C	1:C:542:ASN:H	2.05	0.63
2:D:148:LEU:HD12	2:D:148:LEU:N	2.13	0.63
2:D:482:LEU:O	2:D:483:GLN:C	2.41	0.63
1:E:400:CYS:O	1:E:401:ALA:C	2.42	0.63
1:E:451:MET:H	1:E:451:MET:CE	2.12	0.63
1:E:463:ILE:CD1	1:E:476:ALA:HB1	2.29	0.63
1:E:580:LEU:O	2:F:528:ARG:NH1	2.31	0.63
2:F:445:ARG:O	2:F:446:ALA:C	2.40	0.63
2:H:426:GLU:O	2:H:427:SER:C	2.41	0.63
1:I:187:ASN:ND2	1:I:187:ASN:C	2.55	0.63
1:I:252:LEU:O	1:I:255:ILE:HG22	1.98	0.63
1:I:271:LEU:HD12	1:I:296:ILE:CG1	2.29	0.63
2:J:298:PRO:O	2:J:300:TYR:N	2.31	0.63
2:J:415:LYS:HD2	2:J:447:ALA:HB1	1.80	0.63
1:K:99:VAL:CG2	1:K:100:HIS:N	2.61	0.63
2:L:127:ARG:O	2:L:130:LEU:HB2	1.99	0.63
2:L:173:ASN:O	2:L:174:PRO:O	2.17	0.63
3:N:62:HIS:O	3:N:63:ASN:C	2.41	0.63
4:Q:7:LEU:HD11	4:Q:67:PHE:CE2	2.33	0.63
4:S:40:LEU:O	4:S:42:ARG:N	2.31	0.63
4:W:8:PHE:HD2	4:W:8:PHE:N	1.96	0.63
4:W:40:LEU:O	4:W:42:ARG:N	2.31	0.63
4:X:88:VAL:HG23	4:X:89:GLU:N	2.12	0.63
1:A:285:GLY:O	1:A:288:ILE:N	2.31	0.63
1:A:425:VAL:HG13	1:A:426:LEU:N	2.13	0.63
1:A:438:VAL:HB	1:A:439:PRO:CD	2.23	0.63
1:A:451:MET:HE2	1:A:451:MET:H	1.64	0.63
2:B:473:PHE:CD1	2:B:474:HIS:N	2.67	0.63
1:C:99:VAL:CG2	1:C:100:HIS:N	2.61	0.63
1:C:254:ARG:HB2	1:C:295:THR:HG23	1.79	0.63
1:C:408:ALA:O	1:C:412:ALA:HB2	1.98	0.63
1:C:449:VAL:HA	1:C:452:HIS:NE2	2.13	0.63
2:D:173:ASN:O	2:D:174:PRO:O	2.17	0.63
2:D:220:ILE:HG22	2:D:221:PHE:N	2.12	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:473:PHE:CD1	2:D:474:HIS:N	2.67	0.63
1:E:323:ASN:O	1:E:324:ILE:C	2.40	0.63
2:F:127:ARG:O	2:F:130:LEU:HB2	1.99	0.63
2:F:148:LEU:HD12	2:F:148:LEU:N	2.13	0.63
2:F:260:VAL:HA	2:F:263:LEU:HD12	1.80	0.63
2:F:391:CYS:O	2:F:392:VAL:C	2.39	0.63
1:G:451:MET:H	1:G:451:MET:CE	2.12	0.63
1:G:470:GLN:O	1:G:471:PRO:C	2.42	0.63
2:H:415:LYS:HD2	2:H:447:ALA:HB1	1.80	0.63
1:I:356:ASP:O	1:I:362:LYS:HE2	1.98	0.63
2:J:308:LEU:O	2:J:311:GLN:HB3	1.99	0.63
1:K:249:ILE:HG22	1:K:253:LEU:HD11	1.81	0.63
2:L:385:GLU:C	2:L:387:SER:H	2.06	0.63
4:Q:107:PHE:O	4:Q:108:GLU:C	2.42	0.63
4:Q:129:LYS:O	4:Q:130:SER:C	2.42	0.63
3:R:334:TRP:CD1	3:R:335:VAL:H	2.16	0.63
4:W:16:LEU:HD13	4:W:111:TYR:CE1	2.34	0.63
4:X:16:LEU:HD13	4:X:111:TYR:CE1	2.34	0.63
4:X:33:ARG:HG2	4:X:34:GLU:H	1.64	0.63
4:X:40:LEU:O	4:X:42:ARG:N	2.31	0.63
4:X:100:GLU:O	4:X:101:LEU:C	2.41	0.63
1:A:44:THR:O	1:A:45:TYR:HB2	1.99	0.63
1:A:356:ASP:O	1:A:362:LYS:HE2	1.98	0.63
1:A:415:LYS:N	1:A:415:LYS:CE	2.62	0.63
1:A:429:ALA:O	1:A:431:SER:N	2.32	0.63
1:A:449:VAL:HA	1:A:452:HIS:NE2	2.13	0.63
1:A:532:LYS:O	1:A:536:ARG:HD2	1.99	0.63
2:B:14:GLU:O	2:B:15:ILE:C	2.42	0.63
2:B:166:LYS:HA	2:B:169:ILE:CD1	2.27	0.63
2:B:308:LEU:O	2:B:311:GLN:HB3	1.99	0.63
2:D:14:GLU:O	2:D:15:ILE:C	2.42	0.63
2:D:308:LEU:O	2:D:311:GLN:HB3	1.99	0.63
1:E:271:LEU:HD12	1:E:296:ILE:CG1	2.29	0.63
2:F:25:ASP:O	2:F:26:LYS:C	2.41	0.63
2:F:173:ASN:O	2:F:174:PRO:O	2.17	0.63
1:G:482:GLU:CB	1:G:584:MET:SD	2.76	0.63
2:H:25:ASP:O	2:H:26:LYS:C	2.41	0.63
2:H:127:ARG:O	2:H:130:LEU:HB2	1.99	0.63
2:H:465:LEU:HD12	2:H:465:LEU:N	2.14	0.63
1:I:254:ARG:HB2	1:I:295:THR:HG23	1.79	0.63
1:I:449:VAL:HA	1:I:452:HIS:NE2	2.13	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:139:LYS:HD3	2:J:175:MET:CE	2.14	0.63
2:J:260:VAL:HA	2:J:263:LEU:HD12	1.80	0.63
2:J:473:PHE:CD1	2:J:474:HIS:N	2.67	0.63
2:J:482:LEU:O	2:J:485:LEU:N	2.31	0.63
3:M:22:ARG:CG	3:M:23:GLY:H	2.11	0.63
3:N:92:SER:HB3	3:N:98:LEU:HD21	1.81	0.63
3:P:77:VAL:O	3:P:78:SER:C	2.42	0.63
4:Q:40:LEU:O	4:Q:42:ARG:N	2.31	0.63
3:R:92:SER:HB3	3:R:98:LEU:HD21	1.81	0.63
3:V:264:LEU:HD12	3:V:264:LEU:O	1.99	0.63
4:W:31:MET:HE2	4:W:52:TRP:HH2	1.63	0.63
4:W:100:GLU:O	4:W:101:LEU:C	2.41	0.63
1:A:271:LEU:HD12	1:A:296:ILE:CG1	2.29	0.63
1:A:274:VAL:CG1	1:A:292:THR:HG21	2.29	0.63
1:A:285:GLY:O	1:A:288:ILE:HB	1.99	0.63
2:B:300:TYR:O	2:B:301:VAL:C	2.41	0.63
2:B:426:GLU:O	2:B:427:SER:C	2.41	0.63
1:C:190:VAL:O	1:C:191:LEU:C	2.42	0.63
1:C:227:ILE:CD1	1:C:274:VAL:HG22	2.28	0.63
1:C:566:TYR:O	1:C:569:LEU:N	2.32	0.63
2:D:494:LYS:C	2:D:496:PRO:CD	2.67	0.63
1:E:252:LEU:O	1:E:255:ILE:HG22	1.99	0.63
1:E:429:ALA:O	1:E:431:SER:N	2.32	0.63
2:F:220:ILE:HG22	2:F:221:PHE:N	2.12	0.63
1:G:415:LYS:N	1:G:415:LYS:CE	2.62	0.63
1:G:463:ILE:CD1	1:G:476:ALA:HB1	2.29	0.63
1:G:527:LEU:O	1:G:528:THR:C	2.42	0.63
2:H:148:LEU:HD12	2:H:148:LEU:N	2.13	0.63
1:I:227:ILE:CD1	1:I:274:VAL:HG22	2.28	0.63
1:I:463:ILE:CD1	1:I:476:ALA:HB1	2.29	0.63
1:I:470:GLN:O	1:I:471:PRO:C	2.42	0.63
1:I:482:GLU:OE2	1:I:584:MET:HB3	1.98	0.63
2:J:16:PHE:O	2:J:17:GLU:C	2.42	0.63
2:J:426:GLU:O	2:J:427:SER:C	2.41	0.63
1:K:400:CYS:O	1:K:401:ALA:C	2.42	0.63
3:N:321:ASP:OD1	3:N:361:GLY:N	2.30	0.63
3:O:175:VAL:HG12	3:O:198:ILE:HG12	1.80	0.63
3:O:278:TRP:CD1	3:O:279:ILE:N	2.61	0.63
4:Q:27:GLU:O	4:Q:30:LYS:HB3	1.99	0.63
3:R:62:HIS:O	3:R:63:ASN:C	2.41	0.63
4:S:31:MET:HE2	4:S:52:TRP:HH2	1.63	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:U:8:PHE:HD2	4:U:8:PHE:N	1.96	0.63
3:V:233:LEU:HD13	3:V:269:LEU:HD22	1.80	0.63
4:W:76:ASN:ND2	4:W:79:ILE:H	1.96	0.63
4:X:6:LEU:HD12	4:X:6:LEU:N	2.14	0.63
2:B:155:MET:H	2:B:158:ASP:HB3	1.64	0.62
1:C:527:LEU:O	1:C:528:THR:C	2.42	0.62
2:D:216:GLU:HB2	2:D:217:TRP:CZ3	2.33	0.62
2:D:260:VAL:HA	2:D:263:LEU:HD12	1.80	0.62
2:D:405:TYR:CD1	2:D:406:VAL:N	2.65	0.62
1:E:425:VAL:HG13	1:E:426:LEU:N	2.13	0.62
1:E:451:MET:H	1:E:451:MET:HE2	1.64	0.62
1:G:99:VAL:CG2	1:G:100:HIS:N	2.61	0.62
1:G:400:CYS:O	1:G:401:ALA:C	2.42	0.62
1:G:424:ARG:HH11	1:G:424:ARG:HG2	1.64	0.62
2:H:134:ASP:HB2	2:H:137:VAL:HG23	1.80	0.62
1:I:99:VAL:CG2	1:I:100:HIS:N	2.61	0.62
1:I:580:LEU:O	2:J:528:ARG:NH1	2.31	0.62
2:J:155:MET:H	2:J:158:ASP:HB3	1.64	0.62
2:J:216:GLU:HB2	2:J:217:TRP:CZ3	2.33	0.62
1:K:44:THR:O	1:K:45:TYR:HB2	1.99	0.62
1:K:152:TYR:HA	1:K:155:LYS:HE2	1.81	0.62
2:L:323:VAL:HG23	2:L:324:PHE:CD1	2.23	0.62
2:L:387:SER:CA	2:L:390:ARG:HD2	2.24	0.62
3:O:62:HIS:O	3:O:63:ASN:C	2.41	0.62
3:O:130:ILE:HG22	3:O:130:ILE:O	1.98	0.62
3:O:329:VAL:HG21	3:O:354:TYR:CD1	2.34	0.62
4:Q:6:LEU:HD12	4:Q:6:LEU:N	2.14	0.62
3:R:264:LEU:HD12	3:R:264:LEU:O	1.99	0.62
4:T:33:ARG:HG2	4:T:34:GLU:H	1.64	0.62
4:U:129:LYS:O	4:U:130:SER:C	2.42	0.62
3:V:175:VAL:HG12	3:V:198:ILE:HG12	1.80	0.62
3:V:409:VAL:HG12	3:V:410:ARG:H	1.62	0.62
4:W:6:LEU:HD12	4:W:6:LEU:N	2.14	0.62
4:W:8:PHE:N	4:W:8:PHE:CD2	2.65	0.62
4:W:88:VAL:HG23	4:W:89:GLU:N	2.12	0.62
1:A:378:ILE:HD11	1:A:411:TYR:HB3	1.81	0.62
1:A:531:MET:SD	1:A:566:TYR:HD2	2.20	0.62
2:B:491:LEU:O	2:B:496:PRO:HD2	1.99	0.62
1:C:124:CYS:HA	4:T:119:MET:SD	2.39	0.62
1:C:152:TYR:HA	1:C:155:LYS:HE2	1.81	0.62
1:C:242:ASP:HB3	1:C:245:LEU:HB3	1.82	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:378:ILE:HD11	1:C:411:TYR:HB3	1.81	0.62
1:C:470:GLN:O	1:C:471:PRO:C	2.42	0.62
2:D:110:MET:HE3	2:D:122:LEU:CB	2.29	0.62
2:D:155:MET:H	2:D:158:ASP:HB3	1.64	0.62
2:D:426:GLU:O	2:D:427:SER:C	2.41	0.62
1:E:470:GLN:O	1:E:471:PRO:C	2.42	0.62
2:F:563:LEU:O	2:F:565:CYS:N	2.33	0.62
1:G:271:LEU:HD12	1:G:296:ILE:CG1	2.29	0.62
1:G:378:ILE:HD11	1:G:411:TYR:HB3	1.81	0.62
2:H:230:MET:HG2	2:H:266:PHE:CD2	2.34	0.62
2:H:308:LEU:O	2:H:311:GLN:HB3	1.99	0.62
1:I:249:ILE:HG22	1:I:253:LEU:HD11	1.81	0.62
2:J:369:PHE:O	2:J:370:VAL:C	2.41	0.62
1:K:13:THR:HG22	1:K:26:MET:CE	2.27	0.62
1:K:527:LEU:O	1:K:528:THR:C	2.42	0.62
2:L:148:LEU:HD12	2:L:148:LEU:N	2.13	0.62
2:L:465:LEU:HD12	2:L:465:LEU:N	2.14	0.62
3:M:175:VAL:HG12	3:M:198:ILE:HG12	1.80	0.62
3:N:77:VAL:O	3:N:78:SER:C	2.42	0.62
3:P:62:HIS:O	3:P:63:ASN:C	2.41	0.62
3:P:415:ASN:CG	3:P:416:GLY:H	2.05	0.62
3:R:22:ARG:CG	3:R:23:GLY:H	2.11	0.62
3:R:399:GLU:HG3	3:R:401:SER:H	1.62	0.62
1:A:463:ILE:CD1	1:A:476:ALA:HB1	2.29	0.62
1:A:527:LEU:O	1:A:528:THR:C	2.42	0.62
1:A:566:TYR:O	1:A:569:LEU:N	2.32	0.62
2:B:110:MET:HE3	2:B:122:LEU:CB	2.29	0.62
2:B:563:LEU:O	2:B:565:CYS:N	2.33	0.62
2:D:473:PHE:CG	2:D:474:HIS:N	2.64	0.62
1:E:249:ILE:HG22	1:E:253:LEU:HD11	1.81	0.62
1:E:285:GLY:O	1:E:288:ILE:N	2.31	0.62
2:F:16:PHE:O	2:F:17:GLU:C	2.42	0.62
2:F:134:ASP:HB2	2:F:137:VAL:HG23	1.80	0.62
2:F:385:GLU:C	2:F:387:SER:H	2.06	0.62
1:G:6:ARG:O	1:G:9:GLU:HB3	2.00	0.62
1:G:429:ALA:O	1:G:431:SER:N	2.32	0.62
2:H:55:VAL:C	2:H:57:CYS:H	2.07	0.62
2:H:307:ASN:HD21	2:H:344:ARG:NH1	1.97	0.62
2:H:331:PRO:CD	2:H:334:VAL:HG21	2.29	0.62
1:I:124:CYS:HA	4:X:119:MET:SD	2.39	0.62
1:I:560:GLN:O	1:I:561:GLN:C	2.43	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:491:LEU:O	2:J:496:PRO:HD2	1.99	0.62
1:K:227:ILE:CD1	1:K:274:VAL:HG22	2.28	0.62
2:L:35:LYS:HE2	3:V:137:GLN:HE21	1.63	0.62
2:L:307:ASN:HD21	2:L:344:ARG:NH1	1.97	0.62
2:L:563:LEU:O	2:L:565:CYS:N	2.33	0.62
3:M:194:ILE:HG13	3:M:269:LEU:HG	1.81	0.62
3:M:329:VAL:HG21	3:M:354:TYR:CD1	2.34	0.62
3:O:112:GLU:OE2	3:O:136:THR:HB	1.99	0.62
3:P:22:ARG:HG2	3:P:23:GLY:H	1.62	0.62
3:P:177:GLU:O	3:P:413:THR:HA	2.00	0.62
3:R:112:GLU:OE2	3:R:136:THR:HB	1.99	0.62
3:R:409:VAL:HG12	3:R:410:ARG:H	1.62	0.62
4:S:107:PHE:O	4:S:108:GLU:C	2.42	0.62
4:U:33:ARG:HG2	4:U:34:GLU:H	1.64	0.62
3:V:99:GLU:O	3:V:100:GLU:C	2.41	0.62
1:A:124:CYS:HA	4:S:119:MET:SD	2.39	0.62
1:A:187:ASN:ND2	1:A:187:ASN:C	2.55	0.62
2:B:191:HIS:HA	2:B:195:ASN:HD21	1.64	0.62
2:B:465:LEU:HD12	2:B:465:LEU:N	2.14	0.62
2:B:482:LEU:O	2:B:485:LEU:N	2.31	0.62
1:C:285:GLY:O	1:C:288:ILE:HB	1.99	0.62
1:C:323:ASN:O	1:C:324:ILE:C	2.40	0.62
1:C:377:ASN:ND2	1:C:381:MET:HG2	2.14	0.62
2:D:230:MET:HG2	2:D:266:PHE:CD2	2.34	0.62
2:D:473:PHE:C	2:D:475:ASP:N	2.46	0.62
1:E:451:MET:O	1:E:452:HIS:C	2.42	0.62
1:E:566:TYR:O	1:E:569:LEU:N	2.32	0.62
2:F:35:LYS:HE2	3:O:137:GLN:HE21	1.63	0.62
2:F:110:MET:HE3	2:F:122:LEU:CB	2.29	0.62
2:F:225:CYS:C	2:F:227:GLY:H	2.06	0.62
2:F:230:MET:HG2	2:F:266:PHE:CD2	2.34	0.62
1:G:124:CYS:HA	4:Q:119:MET:SD	2.39	0.62
1:G:449:VAL:HA	1:G:452:HIS:NE2	2.13	0.62
2:H:473:PHE:CD1	2:H:474:HIS:N	2.67	0.62
1:I:532:LYS:O	1:I:536:ARG:HD2	1.99	0.62
2:J:14:GLU:O	2:J:15:ILE:C	2.42	0.62
2:J:185:SER:O	2:J:188:ALA:HB3	2.00	0.62
1:K:532:LYS:O	1:K:536:ARG:HD2	1.99	0.62
2:L:467:GLU:HA	2:L:470:LEU:HD23	1.80	0.62
3:M:99:GLU:O	3:M:100:GLU:C	2.41	0.62
3:N:399:GLU:HG3	3:N:401:SER:H	1.63	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:S:16:LEU:HD13	4:S:111:TYR:CE1	2.34	0.62
4:S:20:TYR:HD2	4:S:121:GLY:N	1.98	0.62
4:S:106:ASN:O	4:S:107:PHE:C	2.43	0.62
4:T:27:GLU:O	4:T:30:LYS:HB3	1.99	0.62
4:U:27:GLU:O	4:U:30:LYS:HB3	1.99	0.62
3:V:112:GLU:OE2	3:V:136:THR:HB	1.99	0.62
1:A:74:ILE:H	1:A:74:ILE:CD1	2.13	0.62
1:A:227:ILE:CD1	1:A:274:VAL:HG22	2.28	0.62
1:A:540:THR:C	1:A:542:ASN:H	2.05	0.62
2:B:216:GLU:HB2	2:B:217:TRP:CZ3	2.33	0.62
2:B:260:VAL:HA	2:B:263:LEU:HD12	1.80	0.62
2:B:355:LEU:O	2:B:356:ALA:C	2.43	0.62
1:C:187:ASN:C	1:C:187:ASN:ND2	2.55	0.62
2:D:563:LEU:O	2:D:565:CYS:N	2.33	0.62
1:E:227:ILE:CD1	1:E:274:VAL:HG22	2.28	0.62
1:E:532:LYS:HB3	1:E:536:ARG:HH11	1.60	0.62
2:F:139:LYS:CD	2:F:175:MET:HE2	2.13	0.62
2:F:482:LEU:O	2:F:483:GLN:C	2.41	0.62
1:G:252:LEU:O	1:G:255:ILE:HG22	1.99	0.62
1:G:451:MET:O	1:G:452:HIS:C	2.42	0.62
2:H:457:GLU:HG3	2:H:458:ARG:N	2.11	0.62
1:I:415:LYS:N	1:I:415:LYS:CE	2.62	0.62
2:J:307:ASN:HD21	2:J:344:ARG:NH1	1.97	0.62
2:J:355:LEU:O	2:J:356:ALA:C	2.42	0.62
2:J:563:LEU:O	2:J:565:CYS:N	2.33	0.62
1:K:5:ILE:HB	1:K:52:LYS:HZ3	1.63	0.62
1:K:135:CYS:CB	1:K:164:VAL:HG13	2.22	0.62
1:K:271:LEU:HD12	1:K:296:ILE:CG1	2.29	0.62
1:K:378:ILE:HD11	1:K:411:TYR:HB3	1.81	0.62
1:K:451:MET:HE2	1:K:451:MET:H	1.64	0.62
1:K:580:LEU:O	2:L:528:ARG:NH1	2.31	0.62
2:L:191:HIS:HA	2:L:195:ASN:HD21	1.64	0.62
3:M:77:VAL:O	3:M:78:SER:C	2.42	0.62
3:M:130:ILE:HG22	3:M:130:ILE:O	1.98	0.62
3:N:202:VAL:HG13	3:N:204:LEU:HG	1.81	0.62
3:N:415:ASN:CG	3:N:416:GLY:H	2.06	0.62
3:O:202:VAL:HG13	3:O:204:LEU:HG	1.80	0.62
3:O:399:GLU:HG3	3:O:401:SER:H	1.63	0.62
3:P:233:LEU:HD13	3:P:269:LEU:HD22	1.80	0.62
3:P:415:ASN:ND2	3:P:416:GLY:H	1.97	0.62
3:R:329:VAL:HG21	3:R:354:TYR:CD1	2.34	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:S:27:GLU:O	4:S:30:LYS:HB3	1.99	0.62
4:S:108:GLU:CG	4:S:109:LYS:H	2.13	0.62
4:T:16:LEU:HD13	4:T:111:TYR:CE1	2.34	0.62
4:U:16:LEU:HD13	4:U:111:TYR:CE1	2.34	0.62
3:V:92:SER:HB3	3:V:98:LEU:HD21	1.81	0.62
4:W:20:TYR:HD2	4:W:121:GLY:N	1.98	0.62
1:A:424:ARG:HH11	1:A:424:ARG:HG2	1.64	0.62
1:A:453:ALA:O	1:A:455:THR:N	2.33	0.62
2:B:173:ASN:O	2:B:174:PRO:O	2.17	0.62
1:C:532:LYS:O	1:C:536:ARG:HD2	1.99	0.62
1:E:527:LEU:O	1:E:528:THR:C	2.42	0.62
2:F:308:LEU:O	2:F:311:GLN:HB3	1.99	0.62
2:F:405:TYR:CD1	2:F:406:VAL:N	2.65	0.62
2:F:482:LEU:O	2:F:485:LEU:N	2.31	0.62
1:G:227:ILE:CD1	1:G:274:VAL:HG22	2.28	0.62
1:G:377:ASN:ND2	1:G:381:MET:HG2	2.14	0.62
1:I:74:ILE:H	1:I:74:ILE:CD1	2.13	0.62
1:I:190:VAL:O	1:I:191:LEU:C	2.42	0.62
1:I:425:VAL:HG13	1:I:426:LEU:N	2.13	0.62
1:I:453:ALA:O	1:I:455:THR:N	2.33	0.62
1:K:274:VAL:CG1	1:K:292:THR:HG21	2.29	0.62
2:L:55:VAL:C	2:L:57:CYS:H	2.07	0.62
2:L:225:CYS:C	2:L:227:GLY:H	2.06	0.62
3:M:17:ILE:HD13	3:M:17:ILE:C	2.25	0.62
3:M:415:ASN:ND2	3:M:416:GLY:H	1.97	0.62
3:N:329:VAL:HG21	3:N:354:TYR:CD1	2.34	0.62
3:P:264:LEU:O	3:P:264:LEU:HD12	1.99	0.62
3:R:175:VAL:HG12	3:R:198:ILE:HG12	1.80	0.62
3:R:202:VAL:HG13	3:R:204:LEU:HG	1.81	0.62
4:T:100:GLU:O	4:T:101:LEU:C	2.41	0.62
4:U:20:TYR:CD2	4:U:121:GLY:N	2.67	0.62
4:W:33:ARG:HG2	4:W:34:GLU:H	1.64	0.62
1:A:254:ARG:HB2	1:A:295:THR:HG23	1.79	0.62
1:A:452:HIS:O	1:A:456:VAL:HG23	2.00	0.62
2:B:148:LEU:HD12	2:B:148:LEU:N	2.13	0.62
1:C:216:VAL:HB	1:C:217:PRO:HD3	1.82	0.62
1:C:400:CYS:O	1:C:401:ALA:C	2.42	0.62
1:C:452:HIS:O	1:C:456:VAL:HG23	2.00	0.62
1:C:463:ILE:CD1	1:C:476:ALA:HB1	2.29	0.62
2:D:225:CYS:C	2:D:227:GLY:H	2.06	0.62
1:E:190:VAL:O	1:E:191:LEU:C	2.41	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:452:HIS:O	1:E:456:VAL:HG23	2.00	0.62
2:F:139:LYS:HD3	2:F:175:MET:CE	2.14	0.62
1:G:451:MET:H	1:G:451:MET:HE2	1.64	0.62
2:H:49:ALA:O	2:H:51:PHE:N	2.33	0.62
2:H:283:LYS:O	2:H:287:PRO:HD2	2.00	0.62
1:I:152:TYR:HA	1:I:155:LYS:HE2	1.81	0.62
1:I:451:MET:H	1:I:451:MET:CE	2.12	0.62
2:J:317:LEU:HD22	2:J:317:LEU:N	2.13	0.62
2:J:331:PRO:CD	2:J:334:VAL:HG21	2.29	0.62
2:J:408:GLN:O	2:J:409:GLU:C	2.38	0.62
2:J:445:ARG:O	2:J:446:ALA:C	2.40	0.62
1:K:212:PHE:HE2	1:K:263:SER:HB3	1.60	0.62
1:K:370:PHE:CE1	1:K:403:GLY:HA3	2.34	0.62
1:K:463:ILE:CD1	1:K:476:ALA:HB1	2.29	0.62
2:L:49:ALA:O	2:L:51:PHE:N	2.32	0.62
2:L:482:LEU:O	2:L:483:GLN:C	2.41	0.62
3:N:130:ILE:HG22	3:N:130:ILE:O	1.98	0.62
3:P:68:VAL:HG12	3:P:69:ALA:N	2.15	0.62
4:Q:16:LEU:HD13	4:Q:111:TYR:CE1	2.34	0.62
4:T:11:GLN:O	4:T:13:LYS:N	2.32	0.62
4:U:20:TYR:HD2	4:U:121:GLY:N	1.98	0.62
4:U:106:ASN:O	4:U:107:PHE:C	2.43	0.62
3:V:130:ILE:HG22	3:V:130:ILE:O	1.98	0.62
4:W:106:ASN:O	4:W:107:PHE:C	2.43	0.62
4:X:20:TYR:HD2	4:X:121:GLY:N	1.98	0.62
2:B:134:ASP:HB2	2:B:137:VAL:HG23	1.80	0.62
2:D:487:ALA:O	2:D:488:ILE:C	2.43	0.62
1:E:74:ILE:HG13	1:E:86:TYR:CD1	2.35	0.62
1:E:124:CYS:HA	4:U:119:MET:SD	2.39	0.62
1:E:242:ASP:HB3	1:E:245:LEU:HB3	1.81	0.62
1:E:285:GLY:O	1:E:288:ILE:HB	1.98	0.62
1:E:377:ASN:ND2	1:E:381:MET:HG2	2.14	0.62
2:F:283:LYS:O	2:F:287:PRO:HD2	2.00	0.62
2:F:465:LEU:HD12	2:F:465:LEU:N	2.14	0.62
1:G:152:TYR:HA	1:G:155:LYS:HE2	1.81	0.62
2:H:486:THR:HG23	2:H:490:LYS:HE2	1.82	0.62
2:H:491:LEU:O	2:H:496:PRO:HD2	1.99	0.62
2:H:563:LEU:O	2:H:565:CYS:N	2.33	0.62
1:K:453:ALA:O	1:K:455:THR:N	2.33	0.62
2:L:355:LEU:O	2:L:356:ALA:C	2.43	0.62
2:L:569:THR:H	2:L:572:SER:CB	2.13	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:O:264:LEU:O	3:O:264:LEU:HD12	1.99	0.62
3:O:415:ASN:ND2	3:O:416:GLY:H	1.97	0.62
3:P:329:VAL:HG21	3:P:354:TYR:CD1	2.34	0.62
4:Q:20:TYR:HD2	4:Q:121:GLY:N	1.98	0.62
4:S:33:ARG:HG2	4:S:34:GLU:H	1.64	0.62
3:V:68:VAL:HG12	3:V:69:ALA:N	2.15	0.62
4:X:106:ASN:O	4:X:107:PHE:C	2.43	0.62
1:A:140:GLY:O	1:A:143:GLU:N	2.31	0.62
2:B:230:MET:HG2	2:B:266:PHE:CD2	2.34	0.62
1:C:370:PHE:CE1	1:C:403:GLY:HA3	2.34	0.62
2:D:307:ASN:HD21	2:D:344:ARG:NH1	1.97	0.62
2:D:421:TYR:HD2	2:D:421:TYR:N	1.98	0.62
2:D:465:LEU:H	2:D:465:LEU:CD1	2.13	0.62
2:D:465:LEU:HD12	2:D:465:LEU:N	2.14	0.62
1:E:366:MET:O	1:E:367:GLU:C	2.43	0.62
2:F:304:ARG:HG2	2:F:573:VAL:CG2	2.30	0.62
2:H:255:VAL:HG23	2:H:256:VAL:N	2.05	0.62
2:H:369:PHE:O	2:H:370:VAL:C	2.41	0.62
1:I:378:ILE:HD11	1:I:411:TYR:HB3	1.81	0.62
1:I:451:MET:O	1:I:452:HIS:C	2.42	0.62
2:J:18:LEU:N	2:J:18:LEU:HD22	2.15	0.62
2:J:465:LEU:HD12	2:J:465:LEU:N	2.14	0.62
1:K:566:TYR:O	1:K:569:LEU:N	2.32	0.62
2:L:304:ARG:HG2	2:L:573:VAL:HA	1.82	0.62
3:M:321:ASP:CG	3:M:322:SER:N	2.55	0.62
3:N:175:VAL:HG12	3:N:198:ILE:HG12	1.80	0.62
3:P:194:ILE:HG13	3:P:269:LEU:HG	1.81	0.62
3:P:202:VAL:HG13	3:P:204:LEU:HG	1.81	0.62
3:P:409:VAL:HG12	3:P:410:ARG:H	1.62	0.62
4:Q:106:ASN:O	4:Q:107:PHE:C	2.43	0.62
3:R:68:VAL:HG12	3:R:69:ALA:N	2.15	0.62
3:R:177:GLU:O	3:R:413:THR:HA	2.00	0.62
4:S:6:LEU:HD12	4:S:6:LEU:N	2.14	0.62
4:U:6:LEU:HD12	4:U:6:LEU:N	2.14	0.62
4:U:107:PHE:O	4:U:108:GLU:C	2.42	0.62
3:V:64:ASN:O	3:V:64:ASN:OD1	2.18	0.62
3:V:194:ILE:HG13	3:V:269:LEU:HG	1.81	0.62
4:W:20:TYR:CD2	4:W:121:GLY:N	2.67	0.62
4:W:107:PHE:O	4:W:108:GLU:C	2.42	0.62
1:A:242:ASP:HB3	1:A:245:LEU:HB3	1.81	0.62
2:B:49:ALA:O	2:B:51:PHE:N	2.33	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:283:LYS:O	2:B:287:PRO:HD2	2.00	0.62
2:D:49:ALA:O	2:D:51:PHE:N	2.32	0.62
2:D:55:VAL:C	2:D:57:CYS:H	2.07	0.62
2:D:127:ARG:O	2:D:130:LEU:HB2	1.99	0.62
1:E:370:PHE:CE1	1:E:403:GLY:HA3	2.35	0.62
2:F:12:LYS:CG	2:F:13:GLY:H	2.13	0.62
2:F:307:ASN:HD21	2:F:344:ARG:NH1	1.97	0.62
2:F:473:PHE:CD1	2:F:474:HIS:N	2.67	0.62
2:F:569:THR:H	2:F:572:SER:CB	2.13	0.62
1:G:532:LYS:O	1:G:536:ARG:HD2	1.99	0.62
2:H:465:LEU:H	2:H:465:LEU:CD1	2.13	0.62
1:I:370:PHE:CE1	1:I:403:GLY:HA3	2.34	0.62
1:I:377:ASN:ND2	1:I:381:MET:HG2	2.15	0.62
2:J:191:HIS:HA	2:J:195:ASN:HD21	1.64	0.62
1:K:425:VAL:HG13	1:K:426:LEU:N	2.13	0.62
2:L:155:MET:H	2:L:158:ASP:HB3	1.64	0.62
2:L:185:SER:O	2:L:188:ALA:HB3	2.00	0.62
3:M:129:LYS:C	3:M:131:LEU:H	2.06	0.62
3:N:264:LEU:HD12	3:N:264:LEU:O	1.99	0.62
3:N:415:ASN:ND2	3:N:416:GLY:H	1.97	0.62
3:P:64:ASN:OD1	3:P:64:ASN:O	2.18	0.62
4:Q:52:TRP:O	4:Q:53:ARG:C	2.43	0.62
4:Q:76:ASN:C	4:Q:76:ASN:ND2	2.44	0.62
3:R:77:VAL:O	3:R:78:SER:C	2.42	0.62
3:R:415:ASN:ND2	3:R:416:GLY:H	1.97	0.62
4:S:20:TYR:CD2	4:S:121:GLY:N	2.67	0.62
4:T:108:GLU:CG	4:T:109:LYS:H	2.13	0.62
3:V:177:GLU:O	3:V:413:THR:HA	2.00	0.62
4:X:52:TRP:O	4:X:53:ARG:C	2.43	0.62
4:X:107:PHE:O	4:X:108:GLU:C	2.42	0.62
1:A:135:CYS:CB	1:A:164:VAL:HG13	2.22	0.61
1:A:216:VAL:HB	1:A:217:PRO:HD3	1.82	0.61
2:B:16:PHE:O	2:B:17:GLU:C	2.42	0.61
2:B:55:VAL:C	2:B:57:CYS:H	2.07	0.61
1:C:13:THR:HG22	1:C:26:MET:CE	2.27	0.61
1:C:289:LEU:O	1:C:290:TYR:C	2.43	0.61
1:C:366:MET:O	1:C:367:GLU:C	2.43	0.61
1:C:451:MET:O	1:C:452:HIS:C	2.42	0.61
2:D:486:THR:HG23	2:D:490:LYS:HE2	1.82	0.61
2:F:55:VAL:C	2:F:57:CYS:H	2.07	0.61
1:G:131:SER:O	1:G:132:SER:C	2.43	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:566:TYR:O	1:G:569:LEU:N	2.32	0.61
1:I:131:SER:O	1:I:132:SER:C	2.43	0.61
2:L:16:PHE:O	2:L:17:GLU:C	2.42	0.61
2:L:110:MET:HE3	2:L:122:LEU:CB	2.29	0.61
2:L:164:THR:O	2:L:168:LEU:HG	2.00	0.61
3:R:17:ILE:HD13	3:R:17:ILE:C	2.25	0.61
4:S:8:PHE:N	4:S:8:PHE:CD2	2.65	0.61
4:S:100:GLU:O	4:S:101:LEU:C	2.41	0.61
4:S:129:LYS:O	4:S:130:SER:C	2.42	0.61
4:T:20:TYR:HD2	4:T:121:GLY:N	1.98	0.61
4:T:106:ASN:O	4:T:107:PHE:C	2.43	0.61
3:V:185:ALA:C	3:V:187:GLY:N	2.57	0.61
3:V:329:VAL:HG21	3:V:354:TYR:CD1	2.34	0.61
4:W:27:GLU:O	4:W:30:LYS:HB3	1.99	0.61
2:B:304:ARG:HG2	2:B:573:VAL:CG2	2.30	0.61
2:B:307:ASN:HD21	2:B:344:ARG:NH1	1.97	0.61
1:C:74:ILE:HG13	1:C:86:TYR:CD1	2.35	0.61
1:C:129:MET:O	1:C:130:GLY:C	2.44	0.61
2:D:16:PHE:O	2:D:17:GLU:C	2.42	0.61
1:E:283:ASN:CG	1:E:284:VAL:N	2.59	0.61
2:F:521:ASP:C	2:F:523:GLY:N	2.55	0.61
1:G:74:ILE:HG13	1:G:86:TYR:CD1	2.35	0.61
1:G:99:VAL:HG23	1:G:100:HIS:N	2.15	0.61
1:G:129:MET:O	1:G:130:GLY:C	2.44	0.61
1:G:190:VAL:O	1:G:191:LEU:C	2.41	0.61
1:G:249:ILE:HG22	1:G:253:LEU:HD11	1.81	0.61
1:G:453:ALA:O	1:G:455:THR:N	2.33	0.61
2:H:143:VAL:O	2:H:144:CYS:C	2.43	0.61
2:H:185:SER:O	2:H:188:ALA:HB3	2.00	0.61
1:I:55:TYR:O	1:I:56:MET:C	2.43	0.61
1:I:74:ILE:HG13	1:I:86:TYR:CD1	2.35	0.61
1:I:283:ASN:CG	1:I:284:VAL:N	2.58	0.61
1:I:424:ARG:HH11	1:I:424:ARG:HG2	1.64	0.61
2:J:127:ARG:O	2:J:130:LEU:HB2	1.99	0.61
2:J:230:MET:HG2	2:J:266:PHE:CD2	2.34	0.61
2:J:304:ARG:HG2	2:J:573:VAL:HA	1.82	0.61
1:K:174:MET:HG3	1:K:175:PHE:CE1	2.35	0.61
1:K:451:MET:H	1:K:451:MET:CE	2.12	0.61
2:L:230:MET:HG2	2:L:266:PHE:CD2	2.34	0.61
3:M:112:GLU:OE2	3:M:136:THR:HB	1.99	0.61
3:M:264:LEU:HD12	3:M:264:LEU:O	1.99	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:O:22:ARG:CG	3:O:23:GLY:H	2.11	0.61
4:T:6:LEU:HD12	4:T:6:LEU:N	2.14	0.61
4:U:30:LYS:HZ3	4:U:30:LYS:HB2	1.64	0.61
3:V:77:VAL:O	3:V:78:SER:C	2.42	0.61
4:X:27:GLU:O	4:X:30:LYS:HB3	1.99	0.61
1:A:174:MET:HG3	1:A:175:PHE:CE1	2.35	0.61
1:A:283:ASN:CG	1:A:284:VAL:N	2.59	0.61
1:A:580:LEU:O	2:B:528:ARG:NH1	2.31	0.61
2:B:143:VAL:O	2:B:144:CYS:C	2.43	0.61
2:B:486:THR:HG23	2:B:490:LYS:HE2	1.82	0.61
1:C:6:ARG:O	1:C:9:GLU:HB3	2.00	0.61
1:C:560:GLN:O	1:C:561:GLN:C	2.43	0.61
2:D:164:THR:O	2:D:168:LEU:HG	2.00	0.61
2:D:185:SER:O	2:D:188:ALA:HB3	2.00	0.61
2:D:304:ARG:HG2	2:D:573:VAL:HA	1.83	0.61
1:E:6:ARG:O	1:E:9:GLU:HB3	2.00	0.61
1:E:131:SER:O	1:E:132:SER:C	2.43	0.61
1:E:424:ARG:HH11	1:E:424:ARG:HG2	1.64	0.61
1:E:453:ALA:O	1:E:455:THR:N	2.33	0.61
1:E:560:GLN:O	1:E:561:GLN:C	2.43	0.61
2:F:49:ALA:O	2:F:51:PHE:N	2.33	0.61
2:F:100:PRO:O	2:F:101:LEU:C	2.43	0.61
1:G:532:LYS:HB3	1:G:536:ARG:HH11	1.60	0.61
2:J:143:VAL:O	2:J:144:CYS:C	2.43	0.61
2:J:164:THR:O	2:J:168:LEU:HG	2.00	0.61
2:J:215:THR:HB	2:J:218:ALA:HB3	1.83	0.61
2:J:421:TYR:HD2	2:J:421:TYR:N	1.98	0.61
2:J:486:THR:HG23	2:J:490:LYS:HE2	1.82	0.61
1:K:242:ASP:HB3	1:K:245:LEU:HB3	1.82	0.61
2:L:283:LYS:O	2:L:287:PRO:HD2	2.00	0.61
3:M:202:VAL:HG13	3:M:204:LEU:HG	1.81	0.61
3:M:293:TYR:O	3:M:357:ARG:HG3	2.01	0.61
3:N:17:ILE:HD13	3:N:17:ILE:C	2.25	0.61
3:N:29:GLU:HG2	3:N:55:VAL:HG11	1.83	0.61
3:R:129:LYS:C	3:R:131:LEU:H	2.06	0.61
3:R:194:ILE:HG13	3:R:269:LEU:HG	1.82	0.61
4:S:98:VAL:HG22	4:S:99:CYS:N	2.15	0.61
4:T:20:TYR:CD2	4:T:121:GLY:N	2.67	0.61
4:X:129:LYS:O	4:X:130:SER:C	2.42	0.61
1:A:249:ILE:HG22	1:A:253:LEU:HD11	1.81	0.61
1:A:370:PHE:CE1	1:A:403:GLY:HA3	2.34	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:385:GLU:C	2:B:387:SER:H	2.06	0.61
1:C:44:THR:O	1:C:45:TYR:HB2	1.99	0.61
1:C:242:ASP:OD2	4:T:126:THR:HG21	2.01	0.61
1:C:415:LYS:N	1:C:415:LYS:CE	2.62	0.61
1:C:424:ARG:HH11	1:C:424:ARG:HG2	1.64	0.61
2:D:283:LYS:O	2:D:287:PRO:HD2	2.00	0.61
2:D:355:LEU:O	2:D:356:ALA:C	2.43	0.61
1:E:242:ASP:OD2	4:U:126:THR:HG21	2.01	0.61
2:F:155:MET:H	2:F:158:ASP:HB3	1.64	0.61
2:F:164:THR:O	2:F:168:LEU:HG	2.00	0.61
1:G:74:ILE:H	1:G:74:ILE:CD1	2.13	0.61
2:H:16:PHE:O	2:H:17:GLU:C	2.42	0.61
2:H:139:LYS:CD	2:H:175:MET:HE2	2.13	0.61
2:H:355:LEU:O	2:H:356:ALA:C	2.43	0.61
1:I:532:LYS:HB3	1:I:536:ARG:HH12	1.62	0.61
2:J:49:ALA:O	2:J:51:PHE:N	2.32	0.61
1:K:74:ILE:H	1:K:74:ILE:CD1	2.13	0.61
1:K:560:GLN:O	1:K:561:GLN:C	2.43	0.61
2:L:60:THR:CG2	2:L:61:ASP:H	2.05	0.61
2:L:139:LYS:CD	2:L:175:MET:HE2	2.13	0.61
2:L:389:GLU:O	2:L:390:ARG:C	2.44	0.61
2:L:465:LEU:H	2:L:465:LEU:CD1	2.13	0.61
3:M:62:HIS:O	3:M:63:ASN:C	2.41	0.61
3:N:177:GLU:O	3:N:413:THR:HA	2.00	0.61
3:P:181:LEU:HD12	3:P:418:TYR:CE1	2.35	0.61
3:P:293:TYR:O	3:P:357:ARG:HG3	2.01	0.61
4:S:52:TRP:O	4:S:53:ARG:C	2.43	0.61
4:S:93:LYS:HG2	4:S:93:LYS:O	2.01	0.61
4:U:18:LYS:HG3	4:U:20:TYR:CE1	2.36	0.61
1:A:377:ASN:ND2	1:A:381:MET:HG2	2.14	0.61
1:A:451:MET:H	1:A:451:MET:CE	2.12	0.61
1:A:451:MET:O	1:A:452:HIS:C	2.42	0.61
2:B:304:ARG:HG2	2:B:573:VAL:HA	1.82	0.61
1:C:131:SER:O	1:C:132:SER:C	2.43	0.61
1:C:453:ALA:O	1:C:455:THR:N	2.33	0.61
1:E:378:ILE:HD11	1:E:411:TYR:HB3	1.81	0.61
2:F:216:GLU:HB2	2:F:217:TRP:CZ3	2.33	0.61
1:G:370:PHE:CE1	1:G:403:GLY:HA3	2.35	0.61
2:H:110:MET:HE3	2:H:122:LEU:CB	2.29	0.61
2:H:164:THR:O	2:H:168:LEU:HG	2.00	0.61
2:H:421:TYR:HD2	2:H:421:TYR:N	1.98	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:242:ASP:OD2	4:X:126:THR:HG21	2.01	0.61
1:I:452:HIS:O	1:I:456:VAL:HG23	2.00	0.61
1:I:468:SER:O	1:I:469:GLN:CB	2.42	0.61
1:I:566:TYR:O	1:I:569:LEU:N	2.32	0.61
2:J:126:LEU:O	2:J:127:ARG:C	2.43	0.61
1:K:6:ARG:O	1:K:9:GLU:HB3	2.00	0.61
2:L:126:LEU:O	2:L:127:ARG:C	2.43	0.61
2:L:421:TYR:N	2:L:421:TYR:CD2	2.68	0.61
3:M:92:SER:HB3	3:M:98:LEU:HD21	1.81	0.61
3:N:112:GLU:OE2	3:N:136:THR:HB	1.99	0.61
3:N:181:LEU:HD12	3:N:418:TYR:CE1	2.35	0.61
3:O:68:VAL:HG12	3:O:69:ALA:N	2.15	0.61
3:O:185:ALA:C	3:O:187:GLY:N	2.57	0.61
3:P:112:GLU:OE2	3:P:136:THR:HB	1.99	0.61
3:R:293:TYR:O	3:R:357:ARG:HG3	2.01	0.61
4:T:107:PHE:O	4:T:108:GLU:C	2.42	0.61
1:A:152:TYR:HA	1:A:155:LYS:HE2	1.81	0.61
2:B:18:LEU:N	2:B:18:LEU:HD22	2.15	0.61
2:B:185:SER:O	2:B:188:ALA:HB3	2.00	0.61
2:B:479:GLN:O	2:B:482:LEU:HB2	2.01	0.61
2:B:487:ALA:O	2:B:488:ILE:C	2.43	0.61
2:B:492:PHE:HB2	2:B:503:VAL:CG2	2.31	0.61
1:C:482:GLU:CB	1:C:584:MET:SD	2.76	0.61
2:F:14:GLU:O	2:F:15:ILE:C	2.41	0.61
2:F:486:THR:HG23	2:F:490:LYS:HE2	1.82	0.61
1:G:13:THR:HG22	1:G:26:MET:CE	2.27	0.61
1:G:174:MET:HG3	1:G:175:PHE:CE1	2.35	0.61
1:G:197:LEU:C	1:G:197:LEU:HD13	2.26	0.61
1:G:296:ILE:HD13	1:G:305:LEU:HD11	1.83	0.61
2:H:18:LEU:N	2:H:18:LEU:HD22	2.15	0.61
2:H:155:MET:H	2:H:158:ASP:HB3	1.64	0.61
1:I:176:LEU:O	1:I:179:THR:HB	2.01	0.61
1:I:216:VAL:HB	1:I:217:PRO:HD3	1.82	0.61
2:J:326:VAL:HG21	2:J:369:PHE:HZ	1.66	0.61
1:K:197:LEU:C	1:K:197:LEU:HD13	2.26	0.61
2:L:143:VAL:O	2:L:144:CYS:C	2.43	0.61
3:N:64:ASN:O	3:N:64:ASN:OD1	2.18	0.61
3:O:92:SER:HB3	3:O:98:LEU:HD21	1.81	0.61
3:P:130:ILE:HG22	3:P:130:ILE:O	1.98	0.61
3:R:50:LEU:N	3:R:50:LEU:HD12	2.16	0.61
4:S:76:ASN:C	4:S:76:ASN:ND2	2.44	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:T:18:LYS:HG3	4:T:20:TYR:CE1	2.36	0.61
4:T:52:TRP:O	4:T:53:ARG:C	2.43	0.61
4:W:7:LEU:HD21	4:W:67:PHE:CE2	2.36	0.61
4:W:52:TRP:O	4:W:53:ARG:C	2.43	0.61
4:W:111:TYR:O	4:W:112:PHE:C	2.44	0.61
4:W:129:LYS:O	4:W:130:SER:C	2.42	0.61
4:X:20:TYR:CD2	4:X:121:GLY:N	2.67	0.61
1:A:6:ARG:O	1:A:9:GLU:HB3	2.00	0.61
1:A:529:ALA:HA	1:A:532:LYS:CG	2.31	0.61
2:B:457:GLU:HG3	2:B:458:ARG:N	2.11	0.61
2:B:569:THR:H	2:B:572:SER:CB	2.13	0.61
1:C:197:LEU:C	1:C:197:LEU:HD13	2.26	0.61
2:D:298:PRO:O	2:D:299:GLN:C	2.44	0.61
2:D:492:PHE:HB2	2:D:503:VAL:CG2	2.31	0.61
1:E:415:LYS:N	1:E:415:LYS:CE	2.62	0.61
1:E:532:LYS:O	1:E:536:ARG:HD2	1.99	0.61
2:F:99:ASN:O	2:F:100:PRO:C	2.44	0.61
2:F:126:LEU:O	2:F:127:ARG:C	2.43	0.61
2:F:143:VAL:O	2:F:144:CYS:C	2.43	0.61
1:G:289:LEU:O	1:G:290:TYR:C	2.43	0.61
2:H:281:LEU:HD22	2:H:316:ILE:HG12	1.83	0.61
2:H:348:GLN:N	2:H:348:GLN:OE1	2.34	0.61
1:I:129:MET:O	1:I:130:GLY:C	2.44	0.61
2:J:37:VAL:O	2:J:38:ILE:C	2.43	0.61
2:J:55:VAL:C	2:J:57:CYS:H	2.07	0.61
2:J:432:LEU:HD12	2:J:448:MET:CE	2.30	0.61
1:K:131:SER:O	1:K:132:SER:C	2.43	0.61
1:K:150:ASN:O	1:K:151:SER:C	2.44	0.61
1:K:296:ILE:HD13	1:K:305:LEU:HD11	1.83	0.61
1:K:377:ASN:ND2	1:K:381:MET:HG2	2.14	0.61
2:L:302:PRO:O	2:L:303:LEU:C	2.44	0.61
3:O:50:LEU:HD11	3:O:59:TRP:HE1	1.66	0.61
3:O:50:LEU:HD12	3:O:50:LEU:N	2.16	0.61
3:O:293:TYR:O	3:O:357:ARG:HG3	2.01	0.61
3:P:50:LEU:HD11	3:P:59:TRP:HE1	1.66	0.61
3:P:92:SER:HB3	3:P:98:LEU:HD21	1.81	0.61
4:Q:18:LYS:HG3	4:Q:20:TYR:CE1	2.36	0.61
4:Q:33:ARG:HG2	4:Q:34:GLU:H	1.64	0.61
4:T:98:VAL:HG22	4:T:99:CYS:N	2.15	0.61
4:T:114:LEU:C	4:T:114:LEU:HD23	2.26	0.61
3:V:415:ASN:ND2	3:V:416:GLY:H	1.97	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:X:108:GLU:CG	4:X:109:LYS:H	2.13	0.61
1:A:366:MET:O	1:A:367:GLU:C	2.43	0.61
1:A:532:LYS:HB3	1:A:536:ARG:HH12	1.62	0.61
1:A:560:GLN:O	1:A:561:GLN:C	2.43	0.61
2:B:32:GLU:O	2:B:35:LYS:HB2	2.01	0.61
1:C:313:LEU:O	1:C:316:PHE:N	2.33	0.61
1:C:580:LEU:O	2:D:528:ARG:NH1	2.31	0.61
2:D:99:ASN:O	2:D:100:PRO:C	2.44	0.61
2:D:304:ARG:HG2	2:D:573:VAL:CG2	2.30	0.61
1:E:122:ALA:O	1:E:123:LEU:C	2.44	0.61
2:F:185:SER:O	2:F:188:ALA:HB3	2.00	0.61
2:F:298:PRO:O	2:F:299:GLN:C	2.44	0.61
2:F:492:PHE:HB2	2:F:503:VAL:CG2	2.31	0.61
1:G:216:VAL:HB	1:G:217:PRO:HD3	1.82	0.61
1:G:242:ASP:OD2	4:Q:126:THR:HG21	2.01	0.61
1:G:326:TYR:CE1	1:G:360:SER:HB3	2.36	0.61
2:H:126:LEU:O	2:H:127:ARG:C	2.43	0.61
2:H:204:ILE:HA	2:H:207:LEU:HD12	1.82	0.61
2:H:304:ARG:HG2	2:H:573:VAL:HA	1.82	0.61
2:H:479:GLN:O	2:H:482:LEU:HB2	2.01	0.61
1:I:6:ARG:O	1:I:9:GLU:HB3	2.00	0.61
1:I:85:GLY:O	1:I:88:GLY:N	2.34	0.61
1:I:174:MET:HG3	1:I:175:PHE:CE1	2.35	0.61
1:K:366:MET:O	1:K:367:GLU:C	2.43	0.61
2:L:281:LEU:HD22	2:L:316:ILE:HG12	1.83	0.61
2:L:308:LEU:O	2:L:311:GLN:HB3	1.99	0.61
2:L:409:GLU:O	2:L:410:ALA:C	2.44	0.61
3:O:29:GLU:HG2	3:O:55:VAL:HG11	1.82	0.61
4:Q:111:TYR:O	4:Q:112:PHE:C	2.44	0.61
3:R:64:ASN:O	3:R:64:ASN:OD1	2.18	0.61
4:U:52:TRP:O	4:U:53:ARG:C	2.43	0.61
4:W:98:VAL:HG22	4:W:99:CYS:N	2.16	0.61
4:X:8:PHE:HD1	4:X:36:MET:SD	2.24	0.61
1:A:19:THR:HG22	1:A:21:ALA:N	2.16	0.61
1:A:122:ALA:O	1:A:123:LEU:C	2.44	0.61
2:B:164:THR:O	2:B:168:LEU:HG	2.00	0.61
2:B:465:LEU:H	2:B:465:LEU:CD1	2.13	0.61
1:C:249:ILE:HG22	1:C:253:LEU:HD11	1.81	0.61
2:D:18:LEU:N	2:D:18:LEU:HD22	2.15	0.61
2:D:348:GLN:N	2:D:348:GLN:OE1	2.34	0.61
2:D:364:GLU:HA	2:D:364:GLU:OE1	2.01	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:421:TYR:N	2:D:421:TYR:CD2	2.68	0.61
1:E:152:TYR:HA	1:E:155:LYS:HE2	1.81	0.61
1:E:216:VAL:HB	1:E:217:PRO:HD3	1.81	0.61
2:F:32:GLU:O	2:F:35:LYS:HB2	2.01	0.61
2:F:215:THR:HB	2:F:218:ALA:HB3	1.83	0.61
2:F:348:GLN:N	2:F:348:GLN:OE1	2.34	0.61
2:F:369:PHE:O	2:F:370:VAL:C	2.41	0.61
1:G:150:ASN:O	1:G:151:SER:C	2.44	0.61
1:I:179:THR:HG21	1:I:211:HIS:HE1	1.66	0.61
1:I:242:ASP:HB3	1:I:245:LEU:HB3	1.81	0.61
2:J:110:MET:HE3	2:J:122:LEU:CB	2.29	0.61
2:J:348:GLN:N	2:J:348:GLN:OE1	2.34	0.61
1:K:50:VAL:HG21	1:K:73:LEU:HD11	1.83	0.61
1:K:74:ILE:HG13	1:K:86:TYR:CD1	2.35	0.61
1:K:85:GLY:O	1:K:88:GLY:N	2.34	0.61
1:K:326:TYR:CE1	1:K:360:SER:HB3	2.36	0.61
1:K:470:GLN:O	1:K:471:PRO:C	2.42	0.61
2:L:304:ARG:HG2	2:L:573:VAL:CG2	2.30	0.61
3:M:177:GLU:O	3:M:413:THR:HA	2.00	0.61
3:M:181:LEU:HD12	3:M:418:TYR:CE1	2.35	0.61
3:M:384:TYR:CD2	3:M:384:TYR:N	2.68	0.61
3:N:335:VAL:HG23	3:N:335:VAL:O	2.01	0.61
3:O:335:VAL:O	3:O:335:VAL:HG23	2.01	0.61
4:Q:108:GLU:CG	4:Q:109:LYS:H	2.13	0.61
4:U:98:VAL:HG22	4:U:99:CYS:N	2.15	0.61
3:V:50:LEU:HD12	3:V:50:LEU:N	2.16	0.61
4:W:93:LYS:HG2	4:W:93:LYS:O	2.01	0.61
4:X:93:LYS:HG2	4:X:93:LYS:O	2.01	0.61
1:A:157:ALA:O	1:A:158:ALA:C	2.44	0.61
2:B:110:MET:HE3	2:B:122:LEU:HB2	1.83	0.61
2:B:302:PRO:O	2:B:303:LEU:C	2.44	0.61
2:B:409:GLU:O	2:B:410:ALA:C	2.44	0.61
2:D:110:MET:HE3	2:D:122:LEU:HB2	1.83	0.61
2:D:255:VAL:CG2	2:D:256:VAL:H	2.06	0.61
2:D:569:THR:H	2:D:572:SER:CB	2.13	0.61
1:E:19:THR:HG22	1:E:21:ALA:N	2.16	0.61
2:F:191:HIS:HA	2:F:195:ASN:HD21	1.64	0.61
2:F:326:VAL:HG21	2:F:369:PHE:HZ	1.66	0.61
1:G:176:LEU:O	1:G:179:THR:HB	2.01	0.61
1:G:179:THR:HG21	1:G:211:HIS:HE1	1.66	0.61
1:G:242:ASP:HB3	1:G:245:LEU:HB3	1.81	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:492:PHE:HA	2:H:499:THR:HG21	1.83	0.61
1:I:49:ASN:O	1:I:50:VAL:C	2.44	0.61
2:J:175:MET:CE	3:R:124:GLN:HB3	2.31	0.61
2:J:283:LYS:O	2:J:287:PRO:HD2	2.00	0.61
2:J:298:PRO:O	2:J:302:PRO:CD	2.40	0.61
1:K:55:TYR:O	1:K:56:MET:C	2.44	0.61
2:L:110:MET:HE3	2:L:122:LEU:HB2	1.83	0.61
2:L:421:TYR:HD2	2:L:421:TYR:N	1.98	0.61
3:M:50:LEU:HD11	3:M:59:TRP:HE1	1.66	0.61
3:M:68:VAL:HG12	3:M:69:ALA:N	2.15	0.61
3:M:141:LYS:O	3:M:142:LEU:HG	2.01	0.61
3:O:141:LYS:O	3:O:142:LEU:HG	2.01	0.61
3:O:177:GLU:O	3:O:413:THR:HA	2.00	0.61
3:P:17:ILE:HD13	3:P:17:ILE:C	2.25	0.61
3:P:50:LEU:HD12	3:P:50:LEU:N	2.16	0.61
3:P:334:TRP:CD1	3:P:335:VAL:N	2.69	0.61
4:U:8:PHE:HD1	4:U:36:MET:SD	2.24	0.61
3:V:17:ILE:HD13	3:V:17:ILE:C	2.25	0.61
4:X:114:LEU:C	4:X:114:LEU:HD23	2.26	0.61
1:A:197:LEU:HD13	1:A:197:LEU:C	2.26	0.60
1:A:289:LEU:O	1:A:290:TYR:C	2.43	0.60
1:A:313:LEU:O	1:A:316:PHE:N	2.33	0.60
2:B:204:ILE:HA	2:B:207:LEU:HD12	1.82	0.60
2:B:338:LYS:O	2:B:342:MET:HG3	2.01	0.60
2:B:482:LEU:O	2:B:483:GLN:C	2.41	0.60
1:E:44:THR:O	1:E:45:TYR:HB2	1.99	0.60
2:F:18:LEU:N	2:F:18:LEU:HD22	2.15	0.60
2:F:432:LEU:HD12	2:F:448:MET:CE	2.30	0.60
2:F:452:VAL:CG1	2:F:453:GLY:N	2.64	0.60
1:G:49:ASN:O	1:G:50:VAL:C	2.44	0.60
1:G:175:PHE:O	1:G:176:LEU:C	2.44	0.60
1:G:216:VAL:O	1:G:220:VAL:HG23	2.01	0.60
2:H:175:MET:CE	3:P:124:GLN:HB3	2.31	0.60
2:H:377:ILE:O	2:H:380:CYS:HB3	2.01	0.60
2:H:452:VAL:CG1	2:H:453:GLY:N	2.64	0.60
2:H:487:ALA:O	2:H:488:ILE:C	2.43	0.60
1:I:150:ASN:O	1:I:151:SER:C	2.44	0.60
1:I:289:LEU:O	1:I:290:TYR:C	2.43	0.60
2:J:479:GLN:O	2:J:482:LEU:HB2	2.01	0.60
1:K:216:VAL:O	1:K:220:VAL:HG23	2.01	0.60
2:L:100:PRO:O	2:L:101:LEU:C	2.43	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:364:GLU:HA	2:L:364:GLU:OE1	2.01	0.60
3:M:185:ALA:C	3:M:187:GLY:N	2.57	0.60
4:S:7:LEU:HD21	4:S:67:PHE:CE2	2.36	0.60
4:S:8:PHE:HD1	4:S:36:MET:SD	2.24	0.60
4:X:18:LYS:HG3	4:X:20:TYR:CE1	2.36	0.60
1:A:74:ILE:HG13	1:A:86:TYR:CD1	2.35	0.60
1:A:85:GLY:O	1:A:88:GLY:N	2.34	0.60
2:B:85:ILE:C	2:B:87:ALA:H	2.10	0.60
2:B:175:MET:CE	3:M:124:GLN:HB3	2.31	0.60
2:B:326:VAL:HG21	2:B:369:PHE:HZ	1.66	0.60
1:C:157:ALA:O	1:C:158:ALA:C	2.44	0.60
2:D:100:PRO:O	2:D:101:LEU:C	2.43	0.60
2:D:479:GLN:O	2:D:482:LEU:HB2	2.01	0.60
1:E:150:ASN:O	1:E:151:SER:C	2.44	0.60
1:E:284:VAL:O	1:E:287:ALA:HB3	2.01	0.60
1:E:326:TYR:CE1	1:E:360:SER:HB3	2.36	0.60
2:F:351:ILE:O	2:F:352:ALA:C	2.44	0.60
2:F:465:LEU:H	2:F:465:LEU:CD1	2.13	0.60
2:F:479:GLN:O	2:F:482:LEU:HB2	2.01	0.60
1:G:385:LEU:O	1:G:388:PHE:HB3	2.02	0.60
1:G:560:GLN:O	1:G:561:GLN:C	2.43	0.60
1:I:326:TYR:CE1	1:I:360:SER:HB3	2.36	0.60
1:I:366:MET:O	1:I:367:GLU:C	2.43	0.60
2:J:85:ILE:C	2:J:87:ALA:H	2.10	0.60
2:J:100:PRO:O	2:J:101:LEU:C	2.44	0.60
2:J:364:GLU:HA	2:J:364:GLU:OE1	2.01	0.60
2:J:421:TYR:N	2:J:421:TYR:CD2	2.68	0.60
1:K:97:GLN:HA	1:K:100:HIS:CB	2.32	0.60
1:K:284:VAL:O	1:K:287:ALA:HB3	2.01	0.60
1:K:289:LEU:O	1:K:290:TYR:C	2.43	0.60
1:K:415:LYS:N	1:K:415:LYS:CE	2.62	0.60
2:L:37:VAL:O	2:L:38:ILE:C	2.43	0.60
3:M:335:VAL:HG23	3:M:335:VAL:O	2.01	0.60
3:N:194:ILE:HG13	3:N:269:LEU:HG	1.82	0.60
3:P:329:VAL:HG12	3:P:330:GLY:N	2.16	0.60
4:Q:7:LEU:HD21	4:Q:67:PHE:CE2	2.36	0.60
4:S:114:LEU:HD23	4:S:114:LEU:C	2.26	0.60
4:U:11:GLN:O	4:U:13:LYS:N	2.32	0.60
4:X:98:VAL:HG22	4:X:99:CYS:N	2.15	0.60
1:A:242:ASP:OD2	4:S:126:THR:HG21	2.01	0.60
2:B:281:LEU:HD22	2:B:316:ILE:HG12	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:174:MET:HG3	1:C:175:PHE:CE1	2.36	0.60
1:C:176:LEU:O	1:C:179:THR:HB	2.01	0.60
1:C:393:GLU:HA	1:C:393:GLU:OE1	2.02	0.60
2:D:32:GLU:O	2:D:35:LYS:HB2	2.01	0.60
2:D:37:VAL:O	2:D:38:ILE:C	2.43	0.60
2:D:143:VAL:O	2:D:144:CYS:C	2.43	0.60
2:D:452:VAL:CG1	2:D:453:GLY:N	2.64	0.60
1:E:53:LEU:O	1:E:54:LEU:C	2.44	0.60
1:E:85:GLY:O	1:E:88:GLY:N	2.34	0.60
1:E:174:MET:HG3	1:E:175:PHE:CE1	2.35	0.60
2:F:16:PHE:CZ	3:M:416:GLY:HA3	2.36	0.60
2:F:304:ARG:HG2	2:F:573:VAL:HA	1.82	0.60
2:F:331:PRO:CD	2:F:334:VAL:HG21	2.29	0.60
2:F:409:GLU:O	2:F:410:ALA:C	2.44	0.60
2:F:492:PHE:HA	2:F:499:THR:HG21	1.83	0.60
1:G:172:MET:SD	1:G:173:GLU:N	2.75	0.60
1:G:233:PRO:HD2	2:J:464:GLU:OE2	2.01	0.60
1:I:122:ALA:O	1:I:123:LEU:C	2.44	0.60
2:J:377:ILE:O	2:J:380:CYS:HB3	2.02	0.60
1:K:122:ALA:O	1:K:123:LEU:C	2.44	0.60
1:K:438:VAL:HB	1:K:439:PRO:CD	2.24	0.60
1:K:452:HIS:O	1:K:456:VAL:HG23	2.00	0.60
2:L:18:LEU:N	2:L:18:LEU:HD22	2.15	0.60
2:L:298:PRO:O	2:L:299:GLN:C	2.44	0.60
2:L:377:ILE:O	2:L:380:CYS:HB3	2.01	0.60
3:N:141:LYS:O	3:N:142:LEU:HG	2.01	0.60
3:O:64:ASN:O	3:O:64:ASN:OD1	2.18	0.60
4:Q:76:ASN:HD21	4:Q:79:ILE:H	1.50	0.60
4:Q:114:LEU:HD23	4:Q:114:LEU:C	2.26	0.60
4:S:111:TYR:O	4:S:112:PHE:C	2.44	0.60
4:T:111:TYR:O	4:T:112:PHE:C	2.44	0.60
4:W:18:LYS:HG3	4:W:20:TYR:CE1	2.36	0.60
1:A:176:LEU:O	1:A:179:THR:HB	2.01	0.60
1:A:216:VAL:O	1:A:220:VAL:HG23	2.01	0.60
2:B:9:THR:HG22	2:B:11:LYS:H	1.67	0.60
2:B:343:ILE:C	2:B:345:LEU:N	2.59	0.60
2:B:389:GLU:O	2:B:390:ARG:C	2.44	0.60
1:C:172:MET:SD	1:C:173:GLU:N	2.75	0.60
2:D:126:LEU:O	2:D:127:ARG:C	2.43	0.60
2:D:175:MET:CE	3:N:124:GLN:HB3	2.31	0.60
2:D:338:LYS:O	2:D:342:MET:HG3	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:377:ILE:O	2:D:380:CYS:HB3	2.01	0.60
1:E:55:TYR:O	1:E:56:MET:C	2.44	0.60
1:E:172:MET:SD	1:E:173:GLU:N	2.75	0.60
1:E:197:LEU:HD13	1:E:197:LEU:C	2.26	0.60
1:E:296:ILE:HD13	1:E:305:LEU:HD11	1.83	0.60
2:F:110:MET:HE3	2:F:122:LEU:HB2	1.83	0.60
2:F:175:MET:CE	3:O:124:GLN:HB3	2.31	0.60
2:F:204:ILE:HA	2:F:207:LEU:HD12	1.82	0.60
2:F:364:GLU:HA	2:F:364:GLU:OE1	2.01	0.60
1:G:122:ALA:O	1:G:123:LEU:C	2.44	0.60
1:G:283:ASN:CG	1:G:284:VAL:N	2.59	0.60
2:H:12:LYS:CG	2:H:13:GLY:H	2.13	0.60
2:H:569:THR:H	2:H:572:SER:CB	2.13	0.60
1:I:385:LEU:O	1:I:388:PHE:HB3	2.02	0.60
2:J:204:ILE:HA	2:J:207:LEU:HD12	1.82	0.60
2:J:389:GLU:O	2:J:390:ARG:C	2.44	0.60
1:K:19:THR:HG22	1:K:21:ALA:N	2.16	0.60
2:L:12:LYS:CG	2:L:13:GLY:H	2.13	0.60
2:L:99:ASN:O	2:L:100:PRO:C	2.44	0.60
2:L:175:MET:CE	3:V:124:GLN:HB3	2.31	0.60
2:L:338:LYS:O	2:L:342:MET:HG3	2.01	0.60
2:L:522:ARG:HG2	2:L:526:TYR:CE1	2.35	0.60
3:M:131:LEU:C	3:M:133:GLU:H	2.09	0.60
3:M:196:GLY:HA3	3:M:267:TYR:CE1	2.37	0.60
3:N:329:VAL:HG12	3:N:330:GLY:N	2.16	0.60
3:P:283:ILE:O	3:P:284:GLU:HG3	2.02	0.60
3:R:181:LEU:HD12	3:R:418:TYR:CE1	2.35	0.60
4:S:85:HIS:O	4:S:88:VAL:HG22	2.02	0.60
4:T:7:LEU:HD21	4:T:67:PHE:CE2	2.36	0.60
4:T:8:PHE:HD1	4:T:36:MET:SD	2.24	0.60
4:T:71:ILE:CG2	4:T:72:GLU:N	2.65	0.60
4:U:85:HIS:O	4:U:88:VAL:HG22	2.02	0.60
3:V:141:LYS:O	3:V:142:LEU:HG	2.01	0.60
3:V:181:LEU:HD12	3:V:418:TYR:CE1	2.35	0.60
3:V:293:TYR:O	3:V:357:ARG:HG3	2.01	0.60
4:W:114:LEU:HD23	4:W:114:LEU:C	2.26	0.60
4:X:7:LEU:HD21	4:X:67:PHE:CE2	2.36	0.60
1:A:13:THR:HG22	1:A:26:MET:CE	2.27	0.60
2:B:12:LYS:CG	2:B:13:GLY:H	2.13	0.60
2:B:407:VAL:O	2:B:410:ALA:HB3	2.02	0.60
1:C:85:GLY:O	1:C:88:GLY:N	2.34	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:122:ALA:O	1:C:123:LEU:C	2.44	0.60
2:D:191:HIS:HA	2:D:195:ASN:HD21	1.64	0.60
1:E:179:THR:HG21	1:E:211:HIS:HE1	1.66	0.60
1:E:346:HIS:O	1:E:347:ARG:C	2.45	0.60
1:G:366:MET:O	1:G:367:GLU:C	2.43	0.60
1:G:452:HIS:O	1:G:456:VAL:HG23	2.00	0.60
2:H:100:PRO:O	2:H:101:LEU:C	2.44	0.60
2:H:258:SER:O	2:H:261:LYS:HB3	2.02	0.60
2:H:492:PHE:HB2	2:H:503:VAL:CG2	2.31	0.60
1:I:157:ALA:O	1:I:158:ALA:C	2.44	0.60
2:J:99:ASN:O	2:J:100:PRO:C	2.44	0.60
2:J:351:ILE:O	2:J:352:ALA:C	2.45	0.60
2:J:465:LEU:H	2:J:465:LEU:CD1	2.13	0.60
2:L:326:VAL:HG21	2:L:369:PHE:HZ	1.66	0.60
2:L:452:VAL:CG1	2:L:453:GLY:N	2.64	0.60
2:L:487:ALA:O	2:L:488:ILE:C	2.43	0.60
3:O:194:ILE:HG13	3:O:269:LEU:HG	1.81	0.60
3:P:384:TYR:N	3:P:384:TYR:CD2	2.68	0.60
4:Q:71:ILE:CG2	4:Q:72:GLU:N	2.65	0.60
3:R:141:LYS:O	3:R:142:LEU:HG	2.01	0.60
3:V:202:VAL:HG13	3:V:204:LEU:HG	1.81	0.60
1:A:49:ASN:O	1:A:50:VAL:C	2.44	0.60
1:A:129:MET:O	1:A:130:GLY:C	2.44	0.60
1:A:179:THR:HG21	1:A:211:HIS:HE1	1.66	0.60
2:B:37:VAL:O	2:B:38:ILE:C	2.43	0.60
2:B:348:GLN:N	2:B:348:GLN:OE1	2.34	0.60
2:D:85:ILE:C	2:D:87:ALA:H	2.09	0.60
2:D:389:GLU:O	2:D:390:ARG:C	2.44	0.60
1:E:97:GLN:HA	1:E:100:HIS:CB	2.32	0.60
2:F:281:LEU:HD22	2:F:316:ILE:HG12	1.83	0.60
2:F:389:GLU:O	2:F:390:ARG:C	2.44	0.60
1:G:46:ARG:HG2	1:G:73:LEU:CD2	2.32	0.60
1:G:85:GLY:O	1:G:88:GLY:N	2.34	0.60
2:H:85:ILE:C	2:H:87:ALA:H	2.10	0.60
2:H:166:LYS:HA	2:H:169:ILE:CD1	2.27	0.60
1:I:400:CYS:O	1:I:401:ALA:C	2.42	0.60
2:J:12:LYS:CG	2:J:13:GLY:H	2.13	0.60
2:J:258:SER:O	2:J:261:LYS:HB3	2.02	0.60
2:J:281:LEU:HD22	2:J:316:ILE:HG12	1.83	0.60
2:J:304:ARG:HG2	2:J:573:VAL:CG2	2.30	0.60
2:J:409:GLU:O	2:J:410:ALA:C	2.44	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:487:ALA:O	2:J:488:ILE:C	2.43	0.60
2:J:569:THR:H	2:J:572:SER:CB	2.13	0.60
1:K:283:ASN:CG	1:K:284:VAL:N	2.59	0.60
1:K:313:LEU:O	1:K:316:PHE:N	2.33	0.60
1:K:346:HIS:O	1:K:347:ARG:C	2.45	0.60
2:L:258:SER:O	2:L:261:LYS:HB3	2.02	0.60
3:M:50:LEU:HD12	3:M:50:LEU:N	2.16	0.60
3:M:64:ASN:OD1	3:M:64:ASN:O	2.18	0.60
3:N:11:LEU:HD11	3:N:64:ASN:OD1	2.01	0.60
3:N:68:VAL:HG12	3:N:69:ALA:N	2.15	0.60
3:N:196:GLY:HA3	3:N:267:TYR:CE1	2.37	0.60
3:N:293:TYR:O	3:N:357:ARG:HG3	2.01	0.60
3:O:283:ILE:O	3:O:284:GLU:HG3	2.02	0.60
4:S:5:MET:C	4:S:6:LEU:HD12	2.27	0.60
4:S:7:LEU:HB2	4:S:16:LEU:HB3	1.84	0.60
4:U:7:LEU:HD21	4:U:67:PHE:CE2	2.36	0.60
4:U:108:GLU:CG	4:U:109:LYS:H	2.13	0.60
4:U:114:LEU:HD23	4:U:114:LEU:C	2.26	0.60
1:A:6:ARG:HD3	3:N:337:GLU:HG2	1.82	0.60
1:A:385:LEU:O	1:A:388:PHE:HB3	2.02	0.60
1:A:470:GLN:O	1:A:471:PRO:C	2.42	0.60
2:B:331:PRO:CD	2:B:334:VAL:HG21	2.29	0.60
1:C:74:ILE:H	1:C:74:ILE:CD1	2.13	0.60
1:C:274:VAL:CG1	1:C:292:THR:HG21	2.29	0.60
2:D:281:LEU:HD22	2:D:316:ILE:HG12	1.83	0.60
1:E:129:MET:O	1:E:130:GLY:C	2.44	0.60
2:F:9:THR:HG22	2:F:11:LYS:H	1.67	0.60
2:F:85:ILE:C	2:F:87:ALA:H	2.10	0.60
2:F:338:LYS:O	2:F:342:MET:HG3	2.01	0.60
2:F:355:LEU:O	2:F:356:ALA:C	2.43	0.60
2:F:421:TYR:CD2	2:F:421:TYR:N	2.68	0.60
2:H:32:GLU:O	2:H:35:LYS:HB2	2.01	0.60
2:H:99:ASN:O	2:H:100:PRO:C	2.44	0.60
2:H:304:ARG:HG2	2:H:573:VAL:CG2	2.30	0.60
1:I:46:ARG:HG2	1:I:73:LEU:CD2	2.32	0.60
1:I:216:VAL:O	1:I:220:VAL:HG23	2.01	0.60
1:I:583:ARG:HB2	2:J:528:ARG:CZ	2.32	0.60
2:J:407:VAL:O	2:J:410:ALA:HB3	2.02	0.60
1:K:129:MET:O	1:K:130:GLY:C	2.44	0.60
1:K:176:LEU:O	1:K:179:THR:HB	2.01	0.60
1:K:216:VAL:HB	1:K:217:PRO:HD3	1.82	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:389:LEU:HD21	1:K:425:VAL:HG23	1.84	0.60
2:L:204:ILE:HA	2:L:207:LEU:HD12	1.82	0.60
2:L:217:TRP:CD1	3:V:123:PRO:HB2	2.37	0.60
2:L:348:GLN:N	2:L:348:GLN:OE1	2.34	0.60
3:M:329:VAL:HG12	3:M:330:GLY:N	2.16	0.60
3:N:384:TYR:CD2	3:N:384:TYR:N	2.68	0.60
3:O:181:LEU:HD12	3:O:418:TYR:CE1	2.35	0.60
3:O:334:TRP:CD1	3:O:335:VAL:N	2.69	0.60
3:P:11:LEU:HD11	3:P:64:ASN:OD1	2.01	0.60
4:Q:8:PHE:HD1	4:Q:36:MET:SD	2.24	0.60
4:Q:98:VAL:HG22	4:Q:99:CYS:N	2.15	0.60
3:R:50:LEU:HD11	3:R:59:TRP:HE1	1.66	0.60
3:R:79:LEU:O	3:R:80:VAL:C	2.45	0.60
4:S:18:LYS:HG3	4:S:20:TYR:CE1	2.36	0.60
4:T:129:LYS:O	4:T:130:SER:C	2.42	0.60
3:V:144:THR:CG2	3:V:145:GLY:H	2.14	0.60
3:V:196:GLY:HA3	3:V:267:TYR:CE1	2.37	0.60
4:X:71:ILE:CG2	4:X:72:GLU:N	2.65	0.60
1:A:99:VAL:HG23	1:A:100:HIS:N	2.15	0.60
1:A:150:ASN:O	1:A:151:SER:C	2.44	0.60
1:A:284:VAL:O	1:A:287:ALA:HB3	2.01	0.60
2:B:321:MET:C	2:B:323:VAL:N	2.60	0.60
2:B:377:ILE:O	2:B:380:CYS:HB3	2.01	0.60
1:C:49:ASN:O	1:C:50:VAL:C	2.44	0.60
1:C:97:GLN:HA	1:C:100:HIS:CB	2.32	0.60
1:C:284:VAL:O	1:C:287:ALA:HB3	2.01	0.60
2:D:258:SER:O	2:D:261:LYS:HB3	2.02	0.60
2:D:321:MET:C	2:D:323:VAL:N	2.60	0.60
2:D:426:GLU:O	2:D:429:ILE:HD13	2.02	0.60
1:E:183:LEU:HD12	1:E:215:LEU:HD13	1.84	0.60
2:F:178:ALA:HB2	2:F:218:ALA:HB2	1.84	0.60
2:H:37:VAL:O	2:H:38:ILE:C	2.44	0.60
2:H:298:PRO:O	2:H:299:GLN:C	2.44	0.60
2:H:389:GLU:O	2:H:390:ARG:C	2.44	0.60
2:H:484:LEU:HD23	2:H:484:LEU:C	2.27	0.60
1:I:197:LEU:HD13	1:I:197:LEU:C	2.26	0.60
2:L:298:PRO:O	2:L:302:PRO:CD	2.40	0.60
3:N:131:LEU:C	3:N:133:GLU:H	2.09	0.60
3:N:144:THR:CG2	3:N:145:GLY:H	2.14	0.60
3:N:334:TRP:CD1	3:N:335:VAL:N	2.69	0.60
3:O:17:ILE:HD13	3:O:17:ILE:C	2.25	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:T:8:PHE:HD2	4:T:8:PHE:N	1.96	0.60
4:T:85:HIS:O	4:T:88:VAL:HG22	2.02	0.60
3:V:334:TRP:CD1	3:V:335:VAL:N	2.69	0.60
4:W:5:MET:C	4:W:6:LEU:HD12	2.27	0.60
4:W:71:ILE:CG2	4:W:72:GLU:N	2.65	0.60
4:X:11:GLN:O	4:X:13:LYS:N	2.32	0.60
1:A:97:GLN:HA	1:A:100:HIS:CB	2.32	0.60
1:C:46:ARG:HG2	1:C:73:LEU:CD2	2.32	0.60
1:C:99:VAL:HG23	1:C:100:HIS:N	2.15	0.60
1:C:296:ILE:HD13	1:C:305:LEU:HD11	1.83	0.60
1:C:389:LEU:HD21	1:C:425:VAL:HG23	1.84	0.60
1:C:583:ARG:HB2	2:D:528:ARG:CZ	2.32	0.60
2:D:204:ILE:HA	2:D:207:LEU:HD12	1.82	0.60
2:D:215:THR:HB	2:D:218:ALA:HB3	1.82	0.60
2:D:407:VAL:O	2:D:410:ALA:HB3	2.02	0.60
2:D:521:ASP:C	2:D:523:GLY:N	2.55	0.60
1:E:74:ILE:H	1:E:74:ILE:CD1	2.13	0.60
1:E:289:LEU:O	1:E:290:TYR:C	2.43	0.60
1:E:356:ASP:OD1	1:E:357:LEU:N	2.35	0.60
2:F:487:ALA:O	2:F:488:ILE:C	2.43	0.60
2:H:311:GLN:HG2	2:H:555:ILE:HD12	1.84	0.60
2:H:448:MET:O	2:H:451:ILE:HB	2.02	0.60
1:I:172:MET:SD	1:I:173:GLU:N	2.75	0.60
1:I:478:TRP:HA	1:I:478:TRP:HE3	1.67	0.60
2:J:492:PHE:HB2	2:J:503:VAL:CG2	2.31	0.60
1:K:157:ALA:O	1:K:158:ALA:C	2.44	0.60
1:K:451:MET:O	1:K:452:HIS:C	2.42	0.60
2:L:9:THR:HG22	2:L:11:LYS:H	1.66	0.60
2:L:215:THR:HB	2:L:218:ALA:HB3	1.83	0.60
2:L:331:PRO:CD	2:L:334:VAL:HG21	2.29	0.60
2:L:492:PHE:HB2	2:L:503:VAL:CG2	2.31	0.60
2:L:492:PHE:HA	2:L:499:THR:HG21	1.83	0.60
3:P:79:LEU:O	3:P:80:VAL:C	2.45	0.60
3:P:131:LEU:C	3:P:133:GLU:H	2.09	0.60
3:P:144:THR:CG2	3:P:145:GLY:H	2.14	0.60
4:Q:5:MET:C	4:Q:6:LEU:HD12	2.27	0.60
4:Q:20:TYR:CD2	4:Q:121:GLY:N	2.67	0.60
4:Q:93:LYS:HG2	4:Q:93:LYS:O	2.01	0.60
3:R:11:LEU:HD11	3:R:64:ASN:OD1	2.01	0.60
3:R:283:ILE:O	3:R:284:GLU:HG3	2.02	0.60
3:R:334:TRP:CD1	3:R:335:VAL:N	2.69	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:S:11:GLN:O	4:S:13:LYS:N	2.32	0.60
4:W:85:HIS:O	4:W:88:VAL:HG22	2.02	0.60
1:C:19:THR:HG22	1:C:21:ALA:N	2.16	0.60
1:C:150:ASN:O	1:C:151:SER:C	2.44	0.60
2:D:490:LYS:HG2	2:D:542:LEU:HD21	1.84	0.60
1:E:46:ARG:HG2	1:E:73:LEU:CD2	2.32	0.60
1:E:99:VAL:HG23	1:E:100:HIS:N	2.15	0.60
1:E:176:LEU:O	1:E:179:THR:HB	2.01	0.60
1:E:393:GLU:HA	1:E:393:GLU:OE1	2.02	0.60
1:G:50:VAL:HG21	1:G:73:LEU:HD11	1.83	0.60
1:G:97:GLN:HA	1:G:100:HIS:CB	2.32	0.60
1:G:157:ALA:O	1:G:158:ALA:C	2.44	0.60
2:H:426:GLU:O	2:H:429:ILE:HD13	2.02	0.60
1:I:53:LEU:O	1:I:54:LEU:C	2.44	0.60
1:I:529:ALA:HA	1:I:532:LYS:CG	2.31	0.60
2:J:110:MET:HE3	2:J:122:LEU:HB2	1.83	0.60
2:J:338:LYS:O	2:J:342:MET:HG3	2.01	0.60
2:J:448:MET:O	2:J:451:ILE:HB	2.02	0.60
2:J:484:LEU:C	2:J:484:LEU:HD23	2.27	0.60
1:K:179:THR:HG21	1:K:211:HIS:HE1	1.66	0.60
1:K:242:ASP:OD2	4:W:126:THR:HG21	2.01	0.60
1:K:393:GLU:HA	1:K:393:GLU:OE1	2.02	0.60
2:L:426:GLU:O	2:L:429:ILE:HD13	2.02	0.60
2:L:484:LEU:HD23	2:L:484:LEU:C	2.27	0.60
3:N:10:ASP:O	3:N:11:LEU:C	2.45	0.60
3:N:50:LEU:HD11	3:N:59:TRP:HE1	1.66	0.60
3:P:141:LYS:O	3:P:142:LEU:HG	2.01	0.60
4:S:71:ILE:CG2	4:S:72:GLU:N	2.65	0.60
4:S:83:LEU:C	4:S:83:LEU:HD12	2.27	0.60
4:T:5:MET:C	4:T:6:LEU:HD12	2.27	0.60
4:U:111:TYR:O	4:U:112:PHE:C	2.44	0.60
3:V:19:ARG:HG3	3:V:21:TYR:CE1	2.37	0.60
1:A:55:TYR:O	1:A:56:MET:C	2.44	0.59
2:B:126:LEU:O	2:B:127:ARG:C	2.43	0.59
2:B:215:THR:HB	2:B:218:ALA:HB3	1.83	0.59
2:B:426:GLU:O	2:B:429:ILE:HD13	2.02	0.59
2:B:452:VAL:CG1	2:B:453:GLY:N	2.64	0.59
1:C:283:ASN:CG	1:C:284:VAL:N	2.59	0.59
2:D:409:GLU:O	2:D:410:ALA:C	2.44	0.59
2:D:484:LEU:HD23	2:D:484:LEU:C	2.27	0.59
2:D:522:ARG:HG2	2:D:526:TYR:CE1	2.35	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:448:MET:O	2:F:451:ILE:HB	2.02	0.59
2:H:217:TRP:CD1	3:P:123:PRO:HB2	2.37	0.59
2:H:407:VAL:O	2:H:410:ALA:HB3	2.02	0.59
2:H:522:ARG:HG2	2:H:526:TYR:CE1	2.35	0.59
1:I:97:GLN:HA	1:I:100:HIS:CB	2.32	0.59
2:J:9:THR:HG22	2:J:11:LYS:H	1.67	0.59
2:J:298:PRO:O	2:J:299:GLN:C	2.44	0.59
2:L:32:GLU:O	2:L:35:LYS:HB2	2.01	0.59
2:L:85:ILE:C	2:L:87:ALA:H	2.09	0.59
3:M:29:GLU:HG2	3:M:55:VAL:HG11	1.83	0.59
3:N:50:LEU:N	3:N:50:LEU:HD12	2.16	0.59
3:N:79:LEU:O	3:N:80:VAL:C	2.45	0.59
3:O:144:THR:CG2	3:O:145:GLY:H	2.14	0.59
3:P:29:GLU:HG2	3:P:55:VAL:HG11	1.82	0.59
4:Q:90:LEU:O	4:Q:91:LEU:C	2.45	0.59
3:R:384:TYR:CD2	3:R:384:TYR:N	2.68	0.59
4:T:10:ARG:HD3	4:T:61:ARG:HH21	1.67	0.59
3:V:10:ASP:O	3:V:11:LEU:C	2.45	0.59
3:V:316:VAL:HG22	3:V:340:GLU:HA	1.84	0.59
4:W:8:PHE:HD1	4:W:36:MET:SD	2.24	0.59
4:X:85:HIS:O	4:X:88:VAL:HG22	2.01	0.59
2:B:164:THR:HG22	2:B:168:LEU:CD1	2.31	0.59
2:B:298:PRO:O	2:B:299:GLN:C	2.44	0.59
1:C:216:VAL:O	1:C:220:VAL:HG23	2.01	0.59
1:C:219:LEU:HD13	1:C:253:LEU:HD23	1.85	0.59
1:C:356:ASP:OD1	1:C:357:LEU:N	2.35	0.59
2:D:12:LYS:CG	2:D:13:GLY:H	2.13	0.59
2:D:325:PHE:CZ	2:D:357:GLU:HG3	2.37	0.59
2:D:448:MET:O	2:D:451:ILE:HB	2.02	0.59
2:D:566:TYR:O	2:D:569:THR:CB	2.47	0.59
1:E:49:ASN:O	1:E:50:VAL:C	2.44	0.59
1:E:219:LEU:HD13	1:E:253:LEU:HD23	1.85	0.59
2:F:421:TYR:HD2	2:F:421:TYR:N	1.98	0.59
1:G:284:VAL:O	1:G:287:ALA:HB3	2.01	0.59
1:G:532:LYS:HB3	1:G:536:ARG:HH12	1.62	0.59
2:H:12:LYS:HB2	3:R:379:LYS:HZ2	1.67	0.59
2:H:325:PHE:CZ	2:H:357:GLU:HG3	2.37	0.59
2:H:405:TYR:HD1	2:H:406:VAL:H	1.47	0.59
1:I:159:LEU:HB2	4:X:119:MET:HE2	1.85	0.59
1:I:183:LEU:HD12	1:I:215:LEU:HD13	1.84	0.59
1:I:313:LEU:O	1:I:316:PHE:N	2.33	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:356:ASP:OD1	1:I:357:LEU:N	2.35	0.59
2:J:178:ALA:HB2	2:J:218:ALA:HB2	1.84	0.59
1:K:46:ARG:HG2	1:K:73:LEU:CD2	2.32	0.59
1:K:49:ASN:O	1:K:50:VAL:C	2.44	0.59
1:K:356:ASP:OD1	1:K:357:LEU:N	2.35	0.59
2:L:486:THR:HG23	2:L:490:LYS:HE2	1.82	0.59
3:M:235:ASP:OD2	3:M:237:LYS:HE3	2.02	0.59
3:N:316:VAL:HG22	3:N:340:GLU:HA	1.84	0.59
3:O:11:LEU:HD11	3:O:64:ASN:OD1	2.01	0.59
3:P:235:ASP:OD2	3:P:237:LYS:HE3	2.02	0.59
3:P:314:ILE:HB	3:P:341:ILE:CG2	2.29	0.59
3:R:29:GLU:HG2	3:R:55:VAL:HG11	1.83	0.59
3:R:335:VAL:O	3:R:335:VAL:HG23	2.01	0.59
4:U:5:MET:C	4:U:6:LEU:HD12	2.27	0.59
4:U:83:LEU:C	4:U:83:LEU:HD12	2.27	0.59
3:V:29:GLU:HG2	3:V:55:VAL:HG11	1.82	0.59
4:W:7:LEU:HB2	4:W:16:LEU:HB3	1.84	0.59
4:X:5:MET:C	4:X:6:LEU:HD12	2.27	0.59
2:B:113:ILE:HG22	2:B:114:ARG:N	2.17	0.59
2:B:258:SER:O	2:B:261:LYS:HB3	2.02	0.59
2:B:311:GLN:NE2	2:B:555:ILE:HB	2.17	0.59
2:B:421:TYR:HD2	2:B:421:TYR:N	1.98	0.59
1:C:5:ILE:HB	1:C:52:LYS:HZ3	1.67	0.59
1:C:27:ILE:HG23	1:C:56:MET:SD	2.43	0.59
1:C:179:THR:HG21	1:C:211:HIS:HE1	1.66	0.59
2:D:178:ALA:HB2	2:D:218:ALA:HB2	1.84	0.59
1:E:478:TRP:HA	1:E:478:TRP:HE3	1.67	0.59
2:F:258:SER:O	2:F:261:LYS:HB3	2.02	0.59
2:H:298:PRO:O	2:H:302:PRO:CD	2.40	0.59
2:H:311:GLN:NE2	2:H:555:ILE:HB	2.17	0.59
2:H:351:ILE:O	2:H:352:ALA:C	2.44	0.59
1:I:19:THR:HG22	1:I:21:ALA:N	2.16	0.59
1:I:284:VAL:O	1:I:287:ALA:HB3	2.01	0.59
2:J:18:LEU:HD22	2:J:18:LEU:H	1.68	0.59
2:J:426:GLU:O	2:J:429:ILE:HD13	2.02	0.59
2:J:452:VAL:CG1	2:J:453:GLY:N	2.64	0.59
1:K:10:LEU:CD1	1:K:14:ILE:HD11	2.32	0.59
1:K:14:ILE:HA	1:K:26:MET:HE1	1.85	0.59
1:K:27:ILE:HG23	1:K:56:MET:SD	2.43	0.59
1:K:172:MET:SD	1:K:173:GLU:N	2.75	0.59
1:K:529:ALA:HA	1:K:532:LYS:CG	2.31	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:583:ARG:HB2	2:L:528:ARG:CZ	2.32	0.59
2:L:321:MET:C	2:L:323:VAL:N	2.60	0.59
3:N:19:ARG:HG3	3:N:21:TYR:CE1	2.37	0.59
3:N:283:ILE:O	3:N:284:GLU:HG3	2.02	0.59
3:O:178:ALA:CB	3:O:415:ASN:HB2	2.33	0.59
3:P:19:ARG:HG3	3:P:21:TYR:CE1	2.37	0.59
3:P:335:VAL:O	3:P:335:VAL:HG23	2.01	0.59
3:P:388:SER:OG	3:P:390:ILE:HG13	2.03	0.59
4:Q:10:ARG:HD3	4:Q:61:ARG:HH21	1.67	0.59
4:T:7:LEU:HB2	4:T:16:LEU:HB3	1.84	0.59
3:V:329:VAL:HG12	3:V:330:GLY:N	2.16	0.59
4:X:7:LEU:HB2	4:X:16:LEU:HB3	1.84	0.59
2:B:421:TYR:N	2:B:421:TYR:CD2	2.68	0.59
2:D:166:LYS:HA	2:D:169:ILE:CD1	2.27	0.59
2:D:331:PRO:CD	2:D:334:VAL:HG21	2.29	0.59
1:E:285:GLY:O	1:E:286:ASN:C	2.45	0.59
2:F:325:PHE:CZ	2:F:357:GLU:HG3	2.37	0.59
2:F:441:GLU:HG2	2:F:442:PRO:CD	2.33	0.59
1:G:53:LEU:O	1:G:54:LEU:C	2.44	0.59
1:G:356:ASP:OD1	1:G:357:LEU:N	2.35	0.59
2:H:126:LEU:HD23	2:H:127:ARG:N	2.18	0.59
2:H:164:THR:HG22	2:H:168:LEU:CD1	2.31	0.59
2:H:490:LYS:HG2	2:H:542:LEU:HD21	1.84	0.59
1:I:8:ARG:O	1:I:9:GLU:C	2.45	0.59
1:I:527:LEU:O	1:I:528:THR:C	2.42	0.59
2:J:32:GLU:O	2:J:35:LYS:HB2	2.01	0.59
2:J:297:GLU:HB3	3:R:81:PHE:CD2	2.37	0.59
3:M:11:LEU:HD11	3:M:64:ASN:OD1	2.01	0.59
3:M:283:ILE:O	3:M:284:GLU:HG3	2.02	0.59
3:O:10:ASP:O	3:O:11:LEU:C	2.45	0.59
3:R:19:ARG:HG3	3:R:21:TYR:CE1	2.37	0.59
3:R:286:HIS:CG	3:R:287:SER:H	2.20	0.59
4:T:93:LYS:HG2	4:T:93:LYS:O	2.01	0.59
4:U:71:ILE:CG2	4:U:72:GLU:N	2.65	0.59
3:V:388:SER:OG	3:V:390:ILE:HG13	2.03	0.59
4:X:90:LEU:O	4:X:91:LEU:C	2.45	0.59
1:A:131:SER:O	1:A:132:SER:C	2.43	0.59
1:A:175:PHE:O	1:A:176:LEU:C	2.44	0.59
2:B:364:GLU:HA	2:B:364:GLU:OE1	2.01	0.59
2:B:492:PHE:HA	2:B:499:THR:HG21	1.83	0.59
1:C:8:ARG:O	1:C:9:GLU:C	2.45	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:506:LEU:HD12	1:C:543:ARG:HD3	1.85	0.59
2:D:302:PRO:O	2:D:303:LEU:C	2.44	0.59
1:E:159:LEU:HB2	4:U:119:MET:HE2	1.85	0.59
1:E:438:VAL:HB	1:E:439:PRO:CD	2.24	0.59
2:F:37:VAL:O	2:F:38:ILE:C	2.44	0.59
2:F:343:ILE:C	2:F:345:LEU:N	2.59	0.59
2:F:377:ILE:O	2:F:380:CYS:HB3	2.01	0.59
2:F:484:LEU:C	2:F:484:LEU:HD23	2.27	0.59
1:G:8:ARG:O	1:G:9:GLU:C	2.45	0.59
1:G:10:LEU:CD1	1:G:14:ILE:HD11	2.32	0.59
1:G:11:ILE:O	1:G:14:ILE:N	2.36	0.59
2:H:364:GLU:HA	2:H:364:GLU:OE1	2.01	0.59
2:H:432:LEU:HD12	2:H:448:MET:CE	2.30	0.59
1:I:175:PHE:O	1:I:176:LEU:C	2.44	0.59
2:J:217:TRP:CD1	3:R:123:PRO:HB2	2.37	0.59
2:J:490:LYS:HG2	2:J:542:LEU:HD21	1.84	0.59
1:K:99:VAL:HG23	1:K:100:HIS:N	2.15	0.59
1:K:183:LEU:HD12	1:K:215:LEU:HD13	1.84	0.59
2:L:448:MET:O	2:L:451:ILE:HB	2.02	0.59
3:N:266:SER:O	3:N:267:TYR:HB3	2.03	0.59
3:O:321:ASP:CG	3:O:322:SER:N	2.55	0.59
3:R:131:LEU:C	3:R:133:GLU:H	2.09	0.59
3:R:196:GLY:HA3	3:R:267:TYR:CE1	2.37	0.59
3:R:329:VAL:HG12	3:R:330:GLY:N	2.16	0.59
3:V:131:LEU:C	3:V:133:GLU:H	2.09	0.59
4:W:10:ARG:HD3	4:W:61:ARG:HH21	1.67	0.59
4:W:83:LEU:C	4:W:83:LEU:HD12	2.27	0.59
4:W:90:LEU:O	4:W:91:LEU:C	2.45	0.59
1:A:7:LEU:O	1:A:10:LEU:HB3	2.03	0.59
1:A:219:LEU:HD13	1:A:253:LEU:HD23	1.85	0.59
1:A:389:LEU:HD21	1:A:425:VAL:HG23	1.84	0.59
2:B:126:LEU:HD23	2:B:127:ARG:N	2.18	0.59
2:B:325:PHE:CZ	2:B:357:GLU:HG3	2.37	0.59
2:B:448:MET:O	2:B:451:ILE:HB	2.02	0.59
1:C:55:TYR:O	1:C:56:MET:C	2.44	0.59
1:C:175:PHE:O	1:C:176:LEU:C	2.44	0.59
1:C:193:THR:O	1:C:194:SER:C	2.46	0.59
1:C:316:PHE:O	1:C:319:ASN:N	2.35	0.59
2:D:147:LYS:O	2:D:151:ILE:HG13	2.03	0.59
2:D:420:LYS:HB3	2:D:421:TYR:CD2	2.38	0.59
1:E:80:THR:HG23	4:U:142:GLN:HE21	1.67	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:216:VAL:O	1:E:220:VAL:HG23	2.01	0.59
2:F:126:LEU:HD23	2:F:127:ARG:N	2.18	0.59
1:G:313:LEU:O	1:G:316:PHE:N	2.33	0.59
1:G:393:GLU:HA	1:G:393:GLU:OE1	2.02	0.59
1:G:487:LEU:O	1:G:487:LEU:HG	2.03	0.59
2:H:113:ILE:HG22	2:H:115:VAL:H	1.68	0.59
1:I:7:LEU:O	1:I:10:LEU:HB3	2.03	0.59
1:I:393:GLU:HA	1:I:393:GLU:OE1	2.02	0.59
1:I:438:VAL:HB	1:I:439:PRO:CD	2.23	0.59
1:K:193:THR:O	1:K:194:SER:C	2.46	0.59
2:L:20:ALA:C	2:L:22:LEU:N	2.60	0.59
2:L:178:ALA:HB2	2:L:218:ALA:HB2	1.84	0.59
2:L:311:GLN:HG2	2:L:555:ILE:HD12	1.84	0.59
3:N:235:ASP:OD2	3:N:237:LYS:HE3	2.02	0.59
3:O:384:TYR:N	3:O:384:TYR:CD2	2.68	0.59
3:O:388:SER:OG	3:O:390:ILE:HG13	2.03	0.59
3:P:196:GLY:HA3	3:P:267:TYR:CE1	2.37	0.59
3:P:316:VAL:HG22	3:P:340:GLU:HA	1.84	0.59
3:R:235:ASP:OD2	3:R:237:LYS:HE3	2.02	0.59
4:T:90:LEU:O	4:T:91:LEU:C	2.45	0.59
4:U:93:LYS:HG2	4:U:93:LYS:O	2.01	0.59
3:V:335:VAL:O	3:V:335:VAL:HG23	2.01	0.59
4:X:10:ARG:HD3	4:X:61:ARG:HH21	1.67	0.59
1:A:46:ARG:HG2	1:A:73:LEU:CD2	2.32	0.59
1:A:172:MET:SD	1:A:173:GLU:N	2.75	0.59
1:A:356:ASP:OD1	1:A:357:LEU:N	2.35	0.59
1:C:14:ILE:HA	1:C:26:MET:HE1	1.85	0.59
2:D:18:LEU:HD22	2:D:18:LEU:H	1.68	0.59
2:D:566:TYR:HE2	2:D:578:PRO:HG2	1.68	0.59
1:E:157:ALA:O	1:E:158:ALA:C	2.44	0.59
1:E:453:ALA:O	1:E:457:GLN:HG2	2.03	0.59
2:F:311:GLN:NE2	2:F:555:ILE:HB	2.17	0.59
2:F:407:VAL:O	2:F:410:ALA:HB3	2.02	0.59
2:F:426:GLU:O	2:F:429:ILE:HD13	2.02	0.59
1:G:274:VAL:CG1	1:G:292:THR:HG21	2.29	0.59
2:H:110:MET:HE3	2:H:122:LEU:HB2	1.83	0.59
1:I:50:VAL:HG21	1:I:73:LEU:HD11	1.84	0.59
1:I:296:ILE:HD13	1:I:305:LEU:HD11	1.83	0.59
1:I:453:ALA:O	1:I:457:GLN:HG2	2.03	0.59
2:J:85:ILE:C	2:J:87:ALA:N	2.60	0.59
1:K:159:LEU:HB2	4:W:119:MET:HE2	1.85	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:M:286:HIS:CG	3:M:287:SER:H	2.20	0.59
3:O:79:LEU:O	3:O:80:VAL:C	2.45	0.59
3:P:10:ASP:O	3:P:11:LEU:C	2.45	0.59
3:P:178:ALA:CB	3:P:415:ASN:HB2	2.33	0.59
4:Q:11:GLN:O	4:Q:13:LYS:N	2.32	0.59
4:S:10:ARG:HD3	4:S:61:ARG:HH21	1.67	0.59
4:U:10:ARG:HD3	4:U:61:ARG:HH21	1.67	0.59
3:V:235:ASP:OD2	3:V:237:LYS:HE3	2.02	0.59
4:W:108:GLU:CG	4:W:109:LYS:H	2.13	0.59
2:B:67:LYS:O	2:B:70:TYR:HB2	2.03	0.59
2:B:85:ILE:C	2:B:87:ALA:N	2.60	0.59
2:B:113:ILE:HG22	2:B:115:VAL:H	1.68	0.59
2:B:178:ALA:HB2	2:B:218:ALA:HB2	1.84	0.59
1:C:11:ILE:O	1:C:14:ILE:N	2.36	0.59
1:C:50:VAL:HG21	1:C:73:LEU:HD11	1.83	0.59
1:C:361:ILE:O	1:C:362:LYS:C	2.46	0.59
1:C:453:ALA:O	1:C:457:GLN:HG2	2.03	0.59
2:D:492:PHE:HA	2:D:499:THR:HG21	1.84	0.59
1:E:27:ILE:HG23	1:E:56:MET:SD	2.43	0.59
1:G:14:ILE:HA	1:G:26:MET:HE1	1.85	0.59
1:G:55:TYR:O	1:G:56:MET:C	2.44	0.59
1:G:80:THR:HG23	4:Q:142:GLN:HE21	1.67	0.59
1:G:193:THR:O	1:G:194:SER:C	2.46	0.59
1:G:500:VAL:O	1:G:500:VAL:HG13	2.03	0.59
2:H:85:ILE:C	2:H:87:ALA:N	2.61	0.59
2:H:178:ALA:HB2	2:H:218:ALA:HB2	1.84	0.59
1:I:80:THR:HG23	4:X:142:GLN:HE21	1.67	0.59
2:J:113:ILE:HG22	2:J:114:ARG:N	2.17	0.59
2:J:126:LEU:HD23	2:J:127:ARG:N	2.18	0.59
2:J:311:GLN:HG2	2:J:555:ILE:HD12	1.84	0.59
1:K:372:LEU:HD12	1:K:372:LEU:H	1.68	0.59
1:K:385:LEU:O	1:K:388:PHE:HB3	2.02	0.59
2:L:18:LEU:HD22	2:L:18:LEU:H	1.68	0.59
2:L:407:VAL:O	2:L:410:ALA:HB3	2.02	0.59
2:L:420:LYS:HB3	2:L:421:TYR:CD2	2.38	0.59
2:L:479:GLN:O	2:L:482:LEU:HB2	2.01	0.59
3:M:79:LEU:O	3:M:80:VAL:C	2.45	0.59
3:M:144:THR:CG2	3:M:145:GLY:H	2.14	0.59
3:M:334:TRP:CD1	3:M:335:VAL:N	2.69	0.59
3:N:79:LEU:O	3:N:82:SER:N	2.36	0.59
3:O:19:ARG:HG3	3:O:21:TYR:CE1	2.37	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:P:168:LYS:HE3	3:P:170:GLU:CD	2.28	0.59
3:V:11:LEU:HD11	3:V:64:ASN:OD1	2.01	0.59
3:V:314:ILE:HB	3:V:341:ILE:CG2	2.29	0.59
1:A:10:LEU:CD1	1:A:14:ILE:HD11	2.32	0.59
1:A:183:LEU:HD12	1:A:215:LEU:HD13	1.84	0.59
1:A:393:GLU:HA	1:A:393:GLU:OE1	2.02	0.59
2:B:18:LEU:HD22	2:B:18:LEU:H	1.68	0.59
1:C:367:GLU:O	1:C:370:PHE:HB2	2.03	0.59
2:D:326:VAL:HG21	2:D:369:PHE:HZ	1.66	0.59
1:E:10:LEU:CD1	1:E:14:ILE:HD11	2.32	0.59
1:E:11:ILE:O	1:E:14:ILE:N	2.36	0.59
1:E:274:VAL:CG1	1:E:292:THR:HG21	2.29	0.59
1:E:487:LEU:O	1:E:487:LEU:HG	2.03	0.59
1:E:500:VAL:O	1:E:500:VAL:HG13	2.03	0.59
2:F:113:ILE:HG22	2:F:114:ARG:N	2.17	0.59
2:F:144:CYS:HA	2:F:147:LYS:HD2	1.85	0.59
2:F:410:ALA:O	2:F:411:ILE:C	2.46	0.59
1:G:19:THR:HG22	1:G:21:ALA:N	2.16	0.59
1:G:346:HIS:O	1:G:347:ARG:C	2.45	0.59
1:G:437:ALA:O	1:G:438:VAL:C	2.46	0.59
1:G:529:ALA:HA	1:G:532:LYS:CG	2.31	0.59
1:G:580:LEU:O	2:H:528:ARG:NH1	2.31	0.59
2:H:138:ARG:O	2:H:139:LYS:C	2.46	0.59
1:I:99:VAL:HG23	1:I:100:HIS:N	2.15	0.59
1:I:455:THR:O	1:I:456:VAL:C	2.46	0.59
2:J:492:PHE:HA	2:J:499:THR:HG21	1.83	0.59
2:J:522:ARG:HG2	2:J:526:TYR:CE1	2.36	0.59
1:K:8:ARG:O	1:K:9:GLU:C	2.45	0.59
1:K:11:ILE:O	1:K:14:ILE:N	2.35	0.59
1:K:53:LEU:O	1:K:54:LEU:C	2.44	0.59
1:K:455:THR:O	1:K:456:VAL:C	2.46	0.59
2:L:113:ILE:HG22	2:L:114:ARG:N	2.17	0.59
2:L:480:VAL:O	2:L:481:GLN:C	2.46	0.59
3:M:316:VAL:HG22	3:M:340:GLU:HA	1.84	0.59
4:Q:85:HIS:O	4:Q:88:VAL:HG22	2.02	0.59
3:V:79:LEU:O	3:V:80:VAL:C	2.45	0.59
3:V:253:ILE:HD12	3:V:253:ILE:N	2.18	0.59
3:V:286:HIS:CG	3:V:287:SER:H	2.20	0.59
1:A:159:LEU:HB2	4:S:119:MET:HE2	1.85	0.59
1:A:193:THR:O	1:A:194:SER:C	2.46	0.59
1:A:372:LEU:HD12	1:A:372:LEU:H	1.68	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:99:ASN:O	2:B:100:PRO:C	2.44	0.59
2:B:484:LEU:C	2:B:484:LEU:HD23	2.27	0.59
1:C:10:LEU:CD1	1:C:14:ILE:HD11	2.32	0.59
1:C:385:LEU:O	1:C:388:PHE:HB3	2.02	0.59
1:C:500:VAL:O	1:C:500:VAL:HG13	2.03	0.59
2:D:9:THR:HG22	2:D:11:LYS:H	1.67	0.59
2:D:217:TRP:CD1	3:N:123:PRO:HB2	2.37	0.59
2:D:410:ALA:O	2:D:411:ILE:C	2.46	0.59
1:E:7:LEU:O	1:E:10:LEU:HB3	2.03	0.59
2:F:67:LYS:O	2:F:70:TYR:HB2	2.03	0.59
2:F:217:TRP:CD1	3:O:123:PRO:HB2	2.37	0.59
2:F:522:ARG:HG2	2:F:526:TYR:CE1	2.35	0.59
1:G:159:LEU:HB2	4:Q:119:MET:HE2	1.85	0.59
2:H:9:THR:HG22	2:H:11:LYS:H	1.67	0.59
2:H:18:LEU:HD22	2:H:18:LEU:H	1.68	0.59
2:H:321:MET:C	2:H:323:VAL:N	2.60	0.59
2:H:326:VAL:HG21	2:H:369:PHE:HZ	1.66	0.59
2:H:441:GLU:HG2	2:H:442:PRO:CD	2.33	0.59
2:J:67:LYS:O	2:J:70:TYR:HB2	2.03	0.59
2:L:85:ILE:C	2:L:87:ALA:N	2.60	0.59
2:L:470:LEU:O	2:L:471:ASP:C	2.46	0.59
3:N:286:HIS:CG	3:N:287:SER:H	2.20	0.59
3:N:388:SER:OG	3:N:390:ILE:HG13	2.03	0.59
3:O:131:LEU:C	3:O:133:GLU:H	2.09	0.59
3:O:235:ASP:OD2	3:O:237:LYS:HE3	2.02	0.59
3:O:314:ILE:HB	3:O:341:ILE:CG2	2.29	0.59
3:O:329:VAL:HG12	3:O:330:GLY:N	2.16	0.59
4:Q:83:LEU:O	4:Q:86:ARG:HB3	2.03	0.59
4:T:83:LEU:C	4:T:83:LEU:HD12	2.27	0.59
3:V:384:TYR:CD2	3:V:384:TYR:N	2.68	0.59
4:W:76:ASN:HD21	4:W:79:ILE:H	1.50	0.59
1:A:115:THR:HG22	1:A:116:GLN:N	2.16	0.58
1:A:285:GLY:O	1:A:286:ASN:C	2.45	0.58
1:A:296:ILE:HD13	1:A:305:LEU:HD11	1.83	0.58
2:B:429:ILE:HG22	2:B:430:ALA:N	2.18	0.58
1:C:80:THR:HG23	4:T:142:GLN:HE21	1.68	0.58
1:C:285:GLY:O	1:C:286:ASN:C	2.45	0.58
1:C:478:TRP:HA	1:C:478:TRP:HE3	1.67	0.58
1:E:8:ARG:O	1:E:9:GLU:C	2.45	0.58
1:E:115:THR:HG22	1:E:116:GLN:N	2.16	0.58
1:E:175:PHE:O	1:E:176:LEU:C	2.44	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:506:LEU:HD12	1:E:543:ARG:HD3	1.85	0.58
2:H:113:ILE:HG22	2:H:114:ARG:N	2.17	0.58
2:H:215:THR:HB	2:H:218:ALA:HB3	1.82	0.58
2:H:297:GLU:HB3	3:P:81:PHE:CD2	2.38	0.58
2:H:338:LYS:O	2:H:342:MET:HG3	2.01	0.58
2:H:343:ILE:C	2:H:345:LEU:N	2.59	0.58
1:I:10:LEU:CD1	1:I:14:ILE:HD11	2.32	0.58
1:I:274:VAL:CG1	1:I:292:THR:HG21	2.29	0.58
2:J:20:ALA:C	2:J:22:LEU:N	2.60	0.58
2:J:521:ASP:C	2:J:523:GLY:N	2.55	0.58
1:K:175:PHE:O	1:K:176:LEU:C	2.44	0.58
1:K:367:GLU:O	1:K:370:PHE:HB2	2.03	0.58
2:L:126:LEU:HD23	2:L:127:ARG:N	2.18	0.58
2:L:136:TYR:CD1	3:V:134:PHE:CE2	2.91	0.58
2:L:311:GLN:NE2	2:L:555:ILE:HB	2.17	0.58
3:N:314:ILE:HB	3:N:341:ILE:CG2	2.29	0.58
4:Q:7:LEU:HB2	4:Q:16:LEU:HB3	1.84	0.58
3:R:388:SER:OG	3:R:390:ILE:HG13	2.03	0.58
3:V:50:LEU:HD11	3:V:59:TRP:HE1	1.66	0.58
4:W:83:LEU:O	4:W:86:ARG:HB3	2.03	0.58
4:X:7:LEU:HD23	4:X:66:TYR:O	2.03	0.58
4:X:30:LYS:HZ2	4:X:30:LYS:CB	2.16	0.58
4:X:83:LEU:C	4:X:83:LEU:HD12	2.27	0.58
1:A:8:ARG:O	1:A:9:GLU:C	2.45	0.58
1:A:11:ILE:O	1:A:14:ILE:N	2.36	0.58
2:B:480:VAL:O	2:B:481:GLN:C	2.46	0.58
2:B:490:LYS:HG2	2:B:542:LEU:HD21	1.84	0.58
1:C:183:LEU:HD12	1:C:215:LEU:HD13	1.84	0.58
1:C:437:ALA:O	1:C:438:VAL:C	2.46	0.58
2:D:126:LEU:HD23	2:D:127:ARG:N	2.18	0.58
2:D:225:CYS:C	2:D:227:GLY:N	2.61	0.58
2:D:311:GLN:NE2	2:D:555:ILE:HB	2.17	0.58
2:D:432:LEU:HD12	2:D:448:MET:CE	2.30	0.58
2:D:480:VAL:O	2:D:481:GLN:C	2.46	0.58
1:E:50:VAL:HG21	1:E:73:LEU:HD11	1.83	0.58
1:E:437:ALA:O	1:E:438:VAL:C	2.46	0.58
2:F:297:GLU:HB3	3:O:81:PHE:CD2	2.38	0.58
1:G:372:LEU:HD12	1:G:372:LEU:H	1.68	0.58
1:G:453:ALA:O	1:G:457:GLN:HG2	2.03	0.58
2:H:147:LYS:O	2:H:151:ILE:HG13	2.03	0.58
1:I:115:THR:HG22	1:I:116:GLN:N	2.16	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:346:HIS:O	1:I:347:ARG:C	2.45	0.58
1:K:478:TRP:HA	1:K:478:TRP:HE3	1.67	0.58
3:M:10:ASP:O	3:M:11:LEU:C	2.45	0.58
3:R:144:THR:CG2	3:R:145:GLY:H	2.14	0.58
4:S:90:LEU:O	4:S:91:LEU:C	2.45	0.58
4:U:7:LEU:HB2	4:U:16:LEU:HB3	1.84	0.58
3:V:283:ILE:O	3:V:284:GLU:HG3	2.02	0.58
4:X:76:ASN:HD21	4:X:79:ILE:H	1.50	0.58
4:X:83:LEU:O	4:X:86:ARG:HB3	2.03	0.58
1:A:14:ILE:HA	1:A:26:MET:HE1	1.85	0.58
1:A:27:ILE:HG23	1:A:56:MET:SD	2.43	0.58
1:A:50:VAL:HG21	1:A:73:LEU:HD11	1.83	0.58
2:B:100:PRO:O	2:B:101:LEU:C	2.44	0.58
2:B:297:GLU:HB3	3:M:81:PHE:CD2	2.38	0.58
2:B:410:ALA:O	2:B:411:ILE:C	2.46	0.58
1:E:385:LEU:O	1:E:388:PHE:HB3	2.02	0.58
2:F:18:LEU:HD22	2:F:18:LEU:H	1.68	0.58
1:G:361:ILE:O	1:G:362:LYS:C	2.46	0.58
1:G:583:ARG:HB2	2:H:528:ARG:CZ	2.32	0.58
2:H:144:CYS:HA	2:H:147:LYS:HD2	1.85	0.58
2:H:420:LYS:HB3	2:H:421:TYR:CD2	2.38	0.58
1:I:14:ILE:HA	1:I:26:MET:HE1	1.85	0.58
1:I:27:ILE:HG23	1:I:56:MET:SD	2.43	0.58
1:I:154:ARG:HH21	1:I:182:LEU:CD2	2.16	0.58
2:J:136:TYR:CD1	3:R:134:PHE:CE2	2.91	0.58
2:J:144:CYS:HA	2:J:147:LYS:HD2	1.85	0.58
2:J:321:MET:C	2:J:323:VAL:N	2.60	0.58
2:J:413:VAL:O	2:J:414:ILE:C	2.46	0.58
2:J:429:ILE:HG22	2:J:430:ALA:N	2.18	0.58
2:J:470:LEU:O	2:J:471:ASP:C	2.46	0.58
1:K:274:VAL:HG11	1:K:292:THR:CG2	2.32	0.58
1:K:361:ILE:O	1:K:362:LYS:C	2.46	0.58
1:K:437:ALA:O	1:K:438:VAL:C	2.46	0.58
2:L:317:LEU:HD22	2:L:317:LEU:N	2.13	0.58
2:L:521:ASP:C	2:L:523:GLY:N	2.55	0.58
3:O:196:GLY:HA3	3:O:267:TYR:CE1	2.37	0.58
3:O:253:ILE:HD12	3:O:253:ILE:N	2.18	0.58
3:O:266:SER:O	3:O:267:TYR:HB3	2.03	0.58
3:P:4:SER:HB3	3:P:22:ARG:HB3	1.85	0.58
4:Q:83:LEU:C	4:Q:83:LEU:HD12	2.27	0.58
4:T:79:ILE:CG2	4:T:80:THR:N	2.66	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:T:83:LEU:O	4:T:86:ARG:HB3	2.03	0.58
4:W:7:LEU:HD23	4:W:66:TYR:O	2.03	0.58
1:A:346:HIS:O	1:A:347:ARG:C	2.45	0.58
1:A:369:SER:O	1:A:370:PHE:C	2.46	0.58
1:A:453:ALA:O	1:A:457:GLN:HG2	2.03	0.58
2:B:351:ILE:O	2:B:352:ALA:C	2.44	0.58
1:C:68:LEU:CG	1:C:69:GLU:H	2.08	0.58
1:C:159:LEU:HB2	4:T:119:MET:HE2	1.85	0.58
2:D:297:GLU:HB3	3:N:81:PHE:CD2	2.38	0.58
1:E:369:SER:O	1:E:370:PHE:C	2.46	0.58
2:F:302:PRO:O	2:F:303:LEU:C	2.44	0.58
2:F:405:TYR:HD1	2:F:406:VAL:H	1.47	0.58
2:F:420:LYS:HB3	2:F:421:TYR:CD2	2.38	0.58
1:G:316:PHE:O	1:G:319:ASN:N	2.35	0.58
1:I:369:SER:O	1:I:370:PHE:C	2.46	0.58
2:J:113:ILE:HG22	2:J:115:VAL:H	1.68	0.58
1:K:453:ALA:O	1:K:457:GLN:HG2	2.03	0.58
2:L:164:THR:HG22	2:L:168:LEU:CD1	2.31	0.58
2:L:351:ILE:O	2:L:352:ALA:C	2.44	0.58
2:L:490:LYS:HG2	2:L:542:LEU:HD21	1.84	0.58
3:M:388:SER:OG	3:M:390:ILE:HG13	2.03	0.58
3:N:334:TRP:CE2	3:N:336:PRO:HG3	2.39	0.58
3:O:316:VAL:HG22	3:O:340:GLU:HA	1.84	0.58
3:P:79:LEU:O	3:P:82:SER:N	2.36	0.58
4:Q:7:LEU:HD23	4:Q:66:TYR:O	2.03	0.58
3:R:79:LEU:O	3:R:82:SER:N	2.36	0.58
4:U:76:ASN:HD21	4:U:79:ILE:H	1.50	0.58
3:V:79:LEU:O	3:V:82:SER:N	2.36	0.58
4:W:11:GLN:O	4:W:13:LYS:N	2.32	0.58
4:W:99:CYS:O	4:W:100:GLU:C	2.47	0.58
4:X:79:ILE:CG2	4:X:80:THR:N	2.66	0.58
1:A:80:THR:HG23	4:S:142:GLN:HE21	1.68	0.58
2:B:20:ALA:C	2:B:22:LEU:N	2.60	0.58
2:B:415:LYS:HD2	2:B:447:ALA:CB	2.34	0.58
1:C:7:LEU:O	1:C:10:LEU:HB3	2.03	0.58
2:D:211:LEU:HD11	2:D:223:LEU:HD21	1.86	0.58
1:E:7:LEU:C	1:E:7:LEU:CD2	2.77	0.58
1:E:14:ILE:HA	1:E:26:MET:HE1	1.85	0.58
1:E:154:ARG:HH21	1:E:182:LEU:CD2	2.16	0.58
2:F:257:LEU:HD11	2:F:568:GLY:N	2.19	0.58
2:F:566:TYR:HE2	2:F:578:PRO:HG2	1.68	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:367:GLU:O	1:G:370:PHE:HB2	2.03	0.58
1:G:389:LEU:HD21	1:G:425:VAL:HG23	1.84	0.58
1:G:468:SER:O	1:G:469:GLN:CB	2.42	0.58
2:H:69:VAL:O	2:H:72:TYR:HB3	2.04	0.58
2:H:409:GLU:O	2:H:410:ALA:C	2.44	0.58
1:I:500:VAL:O	1:I:500:VAL:HG13	2.03	0.58
2:J:147:LYS:O	2:J:151:ILE:HG13	2.03	0.58
2:J:410:ALA:O	2:J:411:ILE:C	2.46	0.58
2:J:420:LYS:HB3	2:J:421:TYR:CD2	2.38	0.58
1:K:396:PHE:N	1:K:396:PHE:CD1	2.71	0.58
2:L:138:ARG:O	2:L:139:LYS:C	2.46	0.58
2:L:292:LEU:C	2:L:294:ALA:N	2.61	0.58
2:L:566:TYR:O	2:L:572:SER:HB2	2.03	0.58
3:N:253:ILE:HD12	3:N:253:ILE:N	2.18	0.58
3:O:9:LEU:CD2	3:O:15:VAL:HA	2.34	0.58
3:R:9:LEU:CD2	3:R:15:VAL:HA	2.34	0.58
3:R:10:ASP:O	3:R:11:LEU:C	2.45	0.58
3:R:266:SER:O	3:R:267:TYR:HB3	2.03	0.58
4:S:7:LEU:HD23	4:S:66:TYR:O	2.03	0.58
4:T:99:CYS:O	4:T:100:GLU:C	2.47	0.58
4:U:7:LEU:HD23	4:U:66:TYR:O	2.03	0.58
4:X:15:ARG:NH1	4:X:104:ILE:HD13	2.19	0.58
1:A:389:LEU:HA	1:A:392:CYS:SG	2.44	0.58
1:A:411:TYR:H	1:A:411:TYR:HD1	1.52	0.58
1:A:500:VAL:O	1:A:500:VAL:HG13	2.03	0.58
1:A:583:ARG:HB2	2:B:528:ARG:CZ	2.32	0.58
2:B:441:GLU:HG2	2:B:442:PRO:CD	2.33	0.58
2:B:522:ARG:HG2	2:B:526:TYR:CE1	2.36	0.58
2:B:566:TYR:O	2:B:572:SER:HB2	2.04	0.58
1:C:7:LEU:CD2	1:C:7:LEU:C	2.77	0.58
1:C:154:ARG:HH21	1:C:182:LEU:CD2	2.16	0.58
2:D:68:LEU:O	2:D:69:VAL:C	2.46	0.58
2:D:351:ILE:O	2:D:352:ALA:C	2.44	0.58
1:E:583:ARG:HB2	2:F:528:ARG:CZ	2.32	0.58
2:F:566:TYR:O	2:F:572:SER:HB2	2.04	0.58
1:G:7:LEU:O	1:G:10:LEU:HB3	2.03	0.58
1:G:389:LEU:HA	1:G:392:CYS:SG	2.44	0.58
2:H:413:VAL:O	2:H:414:ILE:C	2.46	0.58
2:H:470:LEU:O	2:H:471:ASP:C	2.46	0.58
1:I:24:ARG:O	1:I:25:GLU:C	2.46	0.58
1:I:411:TYR:HD1	1:I:411:TYR:H	1.52	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:473:VAL:CG2	1:I:474:GLN:H	2.17	0.58
1:I:482:GLU:CB	1:I:584:MET:SD	2.76	0.58
2:J:69:VAL:O	2:J:72:TYR:HB3	2.04	0.58
2:J:311:GLN:NE2	2:J:555:ILE:HB	2.17	0.58
2:J:441:GLU:HG2	2:J:442:PRO:CD	2.33	0.58
2:J:456:ALA:O	2:J:457:GLU:C	2.47	0.58
2:J:566:TYR:O	2:J:572:SER:HB2	2.03	0.58
2:L:147:LYS:O	2:L:151:ILE:HG13	2.03	0.58
2:L:325:PHE:CZ	2:L:357:GLU:HG3	2.37	0.58
3:M:79:LEU:O	3:M:82:SER:N	2.36	0.58
3:M:178:ALA:CB	3:M:415:ASN:HB2	2.33	0.58
4:Q:99:CYS:O	4:Q:100:GLU:C	2.47	0.58
4:Q:99:CYS:SG	4:Q:100:GLU:N	2.77	0.58
3:R:168:LYS:HE3	3:R:170:GLU:CD	2.28	0.58
3:R:235:ASP:OD1	3:R:236:VAL:N	2.36	0.58
3:R:334:TRP:CE2	3:R:336:PRO:HG3	2.38	0.58
4:S:15:ARG:NH1	4:S:104:ILE:HD13	2.19	0.58
4:T:76:ASN:HD21	4:T:79:ILE:H	1.50	0.58
3:V:4:SER:HB3	3:V:22:ARG:HB3	1.85	0.58
3:V:125:THR:O	3:V:126:THR:OG1	2.22	0.58
3:V:178:ALA:CB	3:V:415:ASN:HB2	2.33	0.58
1:A:561:GLN:CG	2:B:522:ARG:NH2	2.67	0.58
2:B:217:TRP:CD1	3:M:123:PRO:HB2	2.37	0.58
1:C:326:TYR:CE1	1:C:360:SER:HB3	2.36	0.58
1:C:487:LEU:O	1:C:487:LEU:HG	2.03	0.58
2:D:85:ILE:C	2:D:87:ALA:N	2.60	0.58
1:E:367:GLU:O	1:E:370:PHE:HB2	2.03	0.58
1:E:389:LEU:HA	1:E:392:CYS:SG	2.44	0.58
2:F:113:ILE:HG22	2:F:115:VAL:H	1.68	0.58
2:F:311:GLN:HG2	2:F:555:ILE:HD12	1.84	0.58
1:G:183:LEU:HD12	1:G:215:LEU:HD13	1.84	0.58
1:G:285:GLY:O	1:G:286:ASN:C	2.45	0.58
1:G:473:VAL:CG2	1:G:474:GLN:H	2.17	0.58
1:G:506:LEU:HD12	1:G:543:ARG:HD3	1.85	0.58
2:H:136:TYR:CD1	3:P:134:PHE:CE2	2.91	0.58
2:H:175:MET:HE3	3:P:124:GLN:HB3	1.86	0.58
2:H:225:CYS:C	2:H:227:GLY:N	2.61	0.58
1:I:389:LEU:HD21	1:I:425:VAL:HG23	1.84	0.58
1:I:521:VAL:CG1	1:I:522:THR:N	2.67	0.58
2:J:325:PHE:CZ	2:J:357:GLU:HG3	2.37	0.58
1:K:154:ARG:HH21	1:K:182:LEU:CD2	2.16	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:506:LEU:HD12	1:K:543:ARG:HD3	1.85	0.58
2:L:144:CYS:HA	2:L:147:LYS:HD2	1.85	0.58
2:L:456:ALA:O	2:L:457:GLU:C	2.47	0.58
3:M:4:SER:HB3	3:M:22:ARG:HB3	1.85	0.58
3:M:334:TRP:CE2	3:M:336:PRO:HG3	2.38	0.58
3:N:4:SER:HB3	3:N:22:ARG:HB3	1.85	0.58
3:N:178:ALA:CB	3:N:415:ASN:HB2	2.33	0.58
3:P:409:VAL:CG1	3:P:410:ARG:N	2.67	0.58
3:R:399:GLU:HG2	3:R:401:SER:OG	2.04	0.58
4:S:83:LEU:O	4:S:86:ARG:HB3	2.03	0.58
4:S:109:LYS:O	4:S:110:ALA:C	2.47	0.58
3:V:235:ASP:OD1	3:V:236:VAL:N	2.36	0.58
1:A:7:LEU:C	1:A:7:LEU:CD2	2.77	0.58
1:A:154:ARG:HH21	1:A:182:LEU:CD2	2.16	0.58
2:B:257:LEU:HD11	2:B:568:GLY:N	2.19	0.58
2:B:311:GLN:HG2	2:B:555:ILE:HD12	1.84	0.58
2:B:413:VAL:O	2:B:414:ILE:C	2.46	0.58
1:C:7:LEU:O	1:C:8:ARG:C	2.47	0.58
1:C:389:LEU:HA	1:C:392:CYS:SG	2.44	0.58
1:C:442:ILE:HD11	1:C:475:VAL:HG13	1.86	0.58
1:C:521:VAL:CG1	1:C:522:THR:N	2.67	0.58
1:C:561:GLN:CG	2:D:522:ARG:NH2	2.67	0.58
2:D:136:TYR:CD1	3:N:134:PHE:CE2	2.91	0.58
1:E:187:ASN:ND2	1:E:188:HIS:N	2.52	0.58
1:E:361:ILE:O	1:E:362:LYS:C	2.46	0.58
1:E:389:LEU:HD21	1:E:425:VAL:HG23	1.84	0.58
2:F:67:LYS:O	2:F:68:LEU:C	2.47	0.58
2:F:429:ILE:HG22	2:F:430:ALA:N	2.18	0.58
1:G:7:LEU:CD2	1:G:7:LEU:C	2.77	0.58
1:I:11:ILE:O	1:I:14:ILE:N	2.36	0.58
1:I:487:LEU:O	1:I:487:LEU:HG	2.03	0.58
2:J:138:ARG:O	2:J:139:LYS:C	2.46	0.58
2:J:175:MET:HE3	3:R:124:GLN:HB3	1.86	0.58
2:J:211:LEU:HD11	2:J:223:LEU:HD21	1.86	0.58
2:J:566:TYR:O	2:J:569:THR:CB	2.47	0.58
1:K:80:THR:HG23	4:W:142:GLN:HE21	1.68	0.58
1:K:369:SER:O	1:K:370:PHE:C	2.46	0.58
2:L:68:LEU:O	2:L:69:VAL:C	2.46	0.58
2:L:113:ILE:HG22	2:L:115:VAL:H	1.68	0.58
2:L:413:VAL:O	2:L:414:ILE:C	2.46	0.58
2:L:441:GLU:HG2	2:L:442:PRO:CD	2.33	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:446:ALA:HA	2:L:480:VAL:HG23	1.86	0.58
2:L:570:LEU:HD11	3:V:75:ALA:H	1.69	0.58
3:M:9:LEU:CD2	3:M:15:VAL:HA	2.34	0.58
3:M:19:ARG:HG3	3:M:21:TYR:CE1	2.37	0.58
3:M:173:LEU:C	3:M:173:LEU:CD2	2.76	0.58
3:O:79:LEU:O	3:O:82:SER:N	2.36	0.58
3:R:253:ILE:HD12	3:R:253:ILE:N	2.18	0.58
4:T:15:ARG:NH1	4:T:104:ILE:HD13	2.19	0.58
1:A:326:TYR:CE1	1:A:360:SER:HB3	2.36	0.58
1:A:367:GLU:O	1:A:370:PHE:HB2	2.03	0.58
1:A:437:ALA:O	1:A:438:VAL:C	2.46	0.58
1:A:455:THR:O	1:A:456:VAL:C	2.46	0.58
2:B:136:TYR:CD1	3:M:134:PHE:CE2	2.91	0.58
2:B:138:ARG:O	2:B:139:LYS:C	2.46	0.58
2:B:147:LYS:O	2:B:151:ILE:HG13	2.03	0.58
2:B:486:THR:CG2	2:B:487:ALA:N	2.67	0.58
2:B:566:TYR:HE2	2:B:578:PRO:HG2	1.68	0.58
2:D:164:THR:HG22	2:D:168:LEU:CD1	2.31	0.58
2:F:136:TYR:CD1	3:O:134:PHE:CE2	2.91	0.58
2:F:413:VAL:O	2:F:414:ILE:C	2.46	0.58
2:F:493:LEU:C	2:F:495:LYS:N	2.62	0.58
1:G:27:ILE:HG23	1:G:56:MET:SD	2.43	0.58
1:G:154:ARG:HH21	1:G:182:LEU:CD2	2.16	0.58
1:G:226:LEU:O	1:G:227:ILE:C	2.47	0.58
1:G:350:ILE:HD13	1:G:368:LEU:HD21	1.86	0.58
2:H:302:PRO:O	2:H:303:LEU:C	2.44	0.58
2:H:410:ALA:O	2:H:411:ILE:C	2.46	0.58
1:I:285:GLY:O	1:I:286:ASN:C	2.45	0.58
1:I:396:PHE:N	1:I:396:PHE:CD1	2.71	0.58
1:I:506:LEU:O	1:I:507:ASP:C	2.47	0.58
2:J:68:LEU:O	2:J:69:VAL:C	2.46	0.58
1:K:219:LEU:HD13	1:K:253:LEU:HD23	1.84	0.58
2:L:486:THR:CG2	2:L:487:ALA:N	2.67	0.58
2:L:566:TYR:HE2	2:L:578:PRO:HG2	1.68	0.58
3:N:409:VAL:CG1	3:N:410:ARG:N	2.67	0.58
3:O:334:TRP:CE2	3:O:336:PRO:HG3	2.38	0.58
3:P:334:TRP:CE2	3:P:336:PRO:HG3	2.38	0.58
4:Q:83:LEU:O	4:Q:84:ILE:C	2.47	0.58
4:S:22:ALA:O	4:S:23:THR:OG1	2.22	0.58
4:S:83:LEU:O	4:S:86:ARG:N	2.37	0.58
1:A:24:ARG:O	1:A:25:GLU:C	2.46	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:270:ILE:HG23	1:A:271:LEU:N	2.19	0.58
2:B:211:LEU:HD11	2:B:223:LEU:HD21	1.86	0.58
2:B:456:ALA:O	2:B:457:GLU:C	2.47	0.58
1:C:270:ILE:HG23	1:C:271:LEU:N	2.19	0.58
2:D:67:LYS:O	2:D:70:TYR:HB2	2.03	0.58
2:D:456:ALA:O	2:D:457:GLU:C	2.47	0.58
1:E:96:ARG:O	1:E:99:VAL:HG22	2.04	0.58
1:E:434:ARG:HG3	1:E:436:ASP:OD1	2.04	0.58
1:E:473:VAL:CG2	1:E:474:GLN:H	2.17	0.58
1:E:529:ALA:HA	1:E:532:LYS:CG	2.31	0.58
2:F:38:ILE:HG12	2:F:39:ALA:N	2.19	0.58
2:F:69:VAL:O	2:F:72:TYR:HB3	2.04	0.58
2:F:138:ARG:O	2:F:139:LYS:C	2.46	0.58
2:F:147:LYS:O	2:F:151:ILE:HG13	2.03	0.58
2:F:490:LYS:HG2	2:F:542:LEU:HD21	1.84	0.58
1:G:194:SER:O	1:G:197:LEU:HB3	2.04	0.58
1:G:521:VAL:CG1	1:G:522:THR:N	2.67	0.58
2:H:175:MET:O	2:H:178:ALA:HB3	2.04	0.58
1:I:219:LEU:HD13	1:I:253:LEU:HD23	1.85	0.58
2:L:67:LYS:O	2:L:70:TYR:HB2	2.03	0.58
2:L:175:MET:O	2:L:178:ALA:HB3	2.04	0.58
2:L:211:LEU:HD11	2:L:223:LEU:HD21	1.86	0.58
2:L:432:LEU:HD12	2:L:448:MET:CE	2.30	0.58
2:L:466:LEU:H	2:L:466:LEU:CD1	2.17	0.58
3:M:409:VAL:CG1	3:M:410:ARG:N	2.67	0.58
3:N:5:ALA:HB3	3:N:70:THR:HB	1.86	0.58
3:N:131:LEU:O	3:N:134:PHE:N	2.34	0.58
3:N:173:LEU:C	3:N:173:LEU:CD2	2.76	0.58
3:P:312:ILE:HB	3:P:343:TRP:HB3	1.86	0.58
4:S:76:ASN:HD21	4:S:79:ILE:H	1.50	0.58
4:S:79:ILE:CG2	4:S:80:THR:N	2.66	0.58
1:A:53:LEU:O	1:A:54:LEU:C	2.44	0.57
1:A:187:ASN:ND2	1:A:188:HIS:N	2.52	0.57
1:A:194:SER:O	1:A:197:LEU:HB3	2.04	0.57
1:A:274:VAL:HG11	1:A:292:THR:CG2	2.32	0.57
2:B:432:LEU:HD12	2:B:448:MET:CE	2.30	0.57
1:C:135:CYS:CB	1:C:164:VAL:HG13	2.22	0.57
1:C:244:PHE:O	1:C:245:LEU:C	2.47	0.57
1:C:417:TRP:O	1:C:418:HIS:C	2.47	0.57
1:C:421:THR:O	1:C:422:ILE:C	2.47	0.57
1:C:434:ARG:HG3	1:C:436:ASP:OD1	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:69:VAL:O	2:D:72:TYR:HB3	2.04	0.57
2:D:113:ILE:HG22	2:D:115:VAL:H	1.68	0.57
2:D:570:LEU:HD11	3:N:75:ALA:H	1.69	0.57
1:E:193:THR:O	1:E:194:SER:C	2.46	0.57
1:E:519:THR:HG22	1:E:520:SER:N	2.19	0.57
1:E:561:GLN:CG	2:F:522:ARG:NH2	2.67	0.57
2:F:85:ILE:C	2:F:87:ALA:N	2.60	0.57
2:F:321:MET:C	2:F:323:VAL:N	2.60	0.57
2:F:570:LEU:HD11	3:O:75:ALA:H	1.69	0.57
1:G:219:LEU:HD13	1:G:253:LEU:HD23	1.84	0.57
2:H:86:MET:HE2	3:R:237:LYS:HD3	1.86	0.57
2:H:211:LEU:HD11	2:H:223:LEU:HD21	1.86	0.57
1:I:187:ASN:ND2	1:I:188:HIS:N	2.52	0.57
1:I:193:THR:O	1:I:194:SER:C	2.46	0.57
1:I:437:ALA:O	1:I:438:VAL:C	2.46	0.57
1:I:506:LEU:HD12	1:I:543:ARG:HD3	1.85	0.57
2:J:292:LEU:C	2:J:294:ALA:N	2.61	0.57
2:J:415:LYS:HD2	2:J:447:ALA:CB	2.34	0.57
2:J:570:LEU:HD11	3:R:75:ALA:H	1.69	0.57
1:K:7:LEU:CD2	1:K:7:LEU:C	2.77	0.57
1:K:194:SER:O	1:K:197:LEU:HB3	2.04	0.57
3:M:5:ALA:HB3	3:M:70:THR:HB	1.86	0.57
3:M:168:LYS:HE3	3:M:170:GLU:CD	2.28	0.57
3:M:399:GLU:HG2	3:M:401:SER:OG	2.04	0.57
3:N:376:ILE:HG22	3:N:420:LEU:O	2.04	0.57
3:O:168:LYS:HE3	3:O:170:GLU:CD	2.28	0.57
3:O:235:ASP:OD1	3:O:236:VAL:N	2.36	0.57
3:O:399:GLU:HG2	3:O:401:SER:OG	2.04	0.57
3:P:9:LEU:CD2	3:P:15:VAL:HA	2.34	0.57
3:P:386:THR:O	3:P:387:THR:C	2.47	0.57
3:R:178:ALA:CB	3:R:415:ASN:HB2	2.33	0.57
3:R:316:VAL:HG22	3:R:340:GLU:HA	1.84	0.57
4:S:5:MET:HG3	4:S:68:CYS:O	2.04	0.57
4:U:79:ILE:CG2	4:U:80:THR:N	2.66	0.57
3:V:376:ILE:HG22	3:V:420:LEU:O	2.04	0.57
3:V:399:GLU:HG2	3:V:401:SER:OG	2.04	0.57
4:X:111:TYR:O	4:X:112:PHE:C	2.44	0.57
1:A:396:PHE:N	1:A:396:PHE:CD1	2.71	0.57
1:A:417:TRP:O	1:A:418:HIS:C	2.47	0.57
1:A:491:GLN:HB3	1:G:276:THR:O	2.04	0.57
2:B:420:LYS:HB3	2:B:421:TYR:CD2	2.38	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:24:ARG:O	1:C:25:GLU:C	2.46	0.57
1:C:96:ARG:O	1:C:99:VAL:HG22	2.04	0.57
2:D:311:GLN:HG2	2:D:555:ILE:HD12	1.84	0.57
2:D:470:LEU:O	2:D:471:ASP:C	2.46	0.57
1:E:313:LEU:O	1:E:316:PHE:N	2.33	0.57
1:E:442:ILE:HD11	1:E:475:VAL:HG13	1.86	0.57
1:G:96:ARG:O	1:G:99:VAL:HG22	2.04	0.57
2:H:20:ALA:C	2:H:22:LEU:N	2.60	0.57
1:I:368:LEU:O	1:I:371:ALA:N	2.38	0.57
1:I:442:ILE:HD11	1:I:475:VAL:HG13	1.86	0.57
2:J:175:MET:O	2:J:178:ALA:HB3	2.04	0.57
2:J:466:LEU:H	2:J:466:LEU:CD1	2.17	0.57
1:K:270:ILE:HG23	1:K:271:LEU:N	2.19	0.57
1:K:389:LEU:HA	1:K:392:CYS:SG	2.44	0.57
1:K:463:ILE:HD11	1:K:476:ALA:CB	2.34	0.57
2:L:225:CYS:C	2:L:227:GLY:N	2.61	0.57
2:L:415:LYS:HD2	2:L:447:ALA:CB	2.34	0.57
3:M:235:ASP:OD1	3:M:236:VAL:N	2.36	0.57
3:N:399:GLU:HG2	3:N:401:SER:OG	2.04	0.57
3:P:5:ALA:HB3	3:P:70:THR:HB	1.86	0.57
4:Q:79:ILE:CG2	4:Q:80:THR:N	2.66	0.57
4:T:5:MET:HG3	4:T:68:CYS:O	2.04	0.57
4:U:83:LEU:O	4:U:86:ARG:N	2.37	0.57
4:U:109:LYS:O	4:U:110:ALA:C	2.47	0.57
3:V:266:SER:O	3:V:267:TYR:HB3	2.03	0.57
3:V:334:TRP:CE2	3:V:336:PRO:HG3	2.38	0.57
4:W:5:MET:HG3	4:W:68:CYS:O	2.04	0.57
1:A:313:LEU:N	1:A:313:LEU:HD23	2.20	0.57
1:A:350:ILE:HD13	1:A:368:LEU:HD21	1.86	0.57
1:A:521:VAL:CG1	1:A:522:THR:N	2.67	0.57
1:C:53:LEU:O	1:C:54:LEU:C	2.44	0.57
1:C:473:VAL:CG2	1:C:474:GLN:H	2.17	0.57
2:D:486:THR:CG2	2:D:487:ALA:N	2.67	0.57
1:E:244:PHE:O	1:E:245:LEU:C	2.47	0.57
1:E:482:GLU:CB	1:E:584:MET:SD	2.76	0.57
1:E:506:LEU:O	1:E:507:ASP:C	2.47	0.57
1:E:521:VAL:CG1	1:E:522:THR:N	2.67	0.57
1:G:473:VAL:CG2	1:G:474:GLN:N	2.68	0.57
2:H:67:LYS:O	2:H:70:TYR:HB2	2.03	0.57
2:H:421:TYR:N	2:H:421:TYR:CD2	2.68	0.57
2:H:566:TYR:HE2	2:H:578:PRO:HG2	1.68	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:7:LEU:C	1:I:7:LEU:CD2	2.77	0.57
1:I:96:ARG:O	1:I:99:VAL:HG22	2.04	0.57
1:I:270:ILE:HG23	1:I:271:LEU:N	2.19	0.57
1:I:313:LEU:N	1:I:313:LEU:HD23	2.20	0.57
1:I:344:GLN:HE21	1:I:374:ASN:HD22	1.53	0.57
1:I:367:GLU:O	1:I:370:PHE:HB2	2.03	0.57
1:I:473:VAL:CG2	1:I:474:GLN:N	2.68	0.57
2:J:302:PRO:O	2:J:303:LEU:C	2.44	0.57
2:J:566:TYR:HE2	2:J:578:PRO:HG2	1.68	0.57
1:K:7:LEU:O	1:K:10:LEU:HB3	2.03	0.57
1:K:368:LEU:O	1:K:371:ALA:N	2.38	0.57
1:K:500:VAL:O	1:K:500:VAL:HG13	2.03	0.57
2:L:69:VAL:O	2:L:72:TYR:HB3	2.04	0.57
2:L:297:GLU:HB3	3:V:81:PHE:CD2	2.38	0.57
3:N:235:ASP:OD1	3:N:236:VAL:N	2.37	0.57
3:P:162:GLU:HG3	3:P:163:GLY:H	1.69	0.57
3:P:253:ILE:HD12	3:P:253:ILE:N	2.18	0.57
4:U:61:ARG:HH11	4:U:61:ARG:HG2	1.70	0.57
4:U:83:LEU:O	4:U:86:ARG:HB3	2.03	0.57
3:V:409:VAL:CG1	3:V:410:ARG:N	2.67	0.57
4:W:79:ILE:CG2	4:W:80:THR:N	2.66	0.57
4:X:99:CYS:O	4:X:100:GLU:C	2.47	0.57
1:C:455:THR:O	1:C:456:VAL:C	2.46	0.57
2:D:60:THR:CG2	2:D:61:ASP:H	2.05	0.57
2:D:415:LYS:HD2	2:D:447:ALA:CB	2.34	0.57
1:E:226:LEU:O	1:E:227:ILE:C	2.47	0.57
1:E:270:ILE:HG23	1:E:271:LEU:N	2.19	0.57
1:E:455:THR:O	1:E:456:VAL:C	2.46	0.57
2:F:139:LYS:O	2:F:142:ALA:HB3	2.05	0.57
2:F:175:MET:O	2:F:178:ALA:HB3	2.04	0.57
2:F:225:CYS:C	2:F:227:GLY:N	2.61	0.57
1:G:244:PHE:O	1:G:245:LEU:C	2.47	0.57
1:G:506:LEU:O	1:G:507:ASP:C	2.47	0.57
2:H:466:LEU:H	2:H:466:LEU:CD1	2.17	0.57
1:I:7:LEU:O	1:I:8:ARG:C	2.47	0.57
1:I:194:SER:O	1:I:197:LEU:HB3	2.04	0.57
2:J:257:LEU:HD11	2:J:568:GLY:N	2.19	0.57
1:K:254:ARG:O	1:K:299:ILE:HD11	2.05	0.57
1:K:417:TRP:O	1:K:418:HIS:C	2.47	0.57
1:K:487:LEU:O	1:K:487:LEU:HG	2.03	0.57
1:K:521:VAL:CG1	1:K:522:THR:N	2.67	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:M:253:ILE:HD12	3:M:253:ILE:N	2.18	0.57
3:N:168:LYS:HE3	3:N:170:GLU:CD	2.28	0.57
3:O:5:ALA:HB3	3:O:70:THR:HB	1.86	0.57
3:P:286:HIS:CG	3:P:287:SER:H	2.20	0.57
3:P:376:ILE:HG22	3:P:420:LEU:O	2.05	0.57
4:Q:15:ARG:NH1	4:Q:104:ILE:HD13	2.19	0.57
3:R:112:GLU:O	3:R:113:LEU:C	2.48	0.57
3:R:390:ILE:HG22	3:R:391:GLN:N	2.19	0.57
4:U:15:ARG:NH1	4:U:104:ILE:HD13	2.19	0.57
4:W:83:LEU:O	4:W:86:ARG:N	2.37	0.57
1:A:168:VAL:HG12	1:A:168:VAL:O	2.05	0.57
1:A:434:ARG:HG3	1:A:436:ASP:OD1	2.04	0.57
1:A:506:LEU:HD12	1:A:543:ARG:HD3	1.85	0.57
2:B:139:LYS:O	2:B:142:ALA:HB3	2.05	0.57
2:B:470:LEU:O	2:B:471:ASP:C	2.46	0.57
1:C:369:SER:O	1:C:370:PHE:C	2.46	0.57
1:C:463:ILE:HD11	1:C:476:ALA:CB	2.34	0.57
2:D:257:LEU:HD11	2:D:568:GLY:N	2.19	0.57
2:D:317:LEU:HD22	2:D:317:LEU:N	2.13	0.57
2:D:446:ALA:HA	2:D:480:VAL:HG23	1.86	0.57
1:E:344:GLN:HE21	1:E:374:ASN:HD22	1.53	0.57
1:E:473:VAL:CG2	1:E:474:GLN:N	2.67	0.57
2:F:387:SER:HA	2:F:390:ARG:CD	2.26	0.57
2:F:415:LYS:HD2	2:F:447:ALA:CB	2.34	0.57
2:F:486:THR:CG2	2:F:487:ALA:N	2.67	0.57
1:G:430:GLY:HA2	1:G:433:VAL:HG23	1.87	0.57
1:G:455:THR:O	1:G:456:VAL:C	2.46	0.57
1:G:463:ILE:HD11	1:G:476:ALA:CB	2.34	0.57
2:H:39:ALA:C	2:H:41:MET:N	2.61	0.57
2:H:446:ALA:HA	2:H:480:VAL:HG23	1.86	0.57
2:H:566:TYR:O	2:H:572:SER:HB2	2.04	0.57
1:I:74:ILE:HD12	1:I:74:ILE:N	2.19	0.57
1:I:254:ARG:O	1:I:299:ILE:HD11	2.05	0.57
1:I:389:LEU:HA	1:I:392:CYS:SG	2.44	0.57
2:J:446:ALA:O	2:J:447:ALA:C	2.48	0.57
1:K:96:ARG:O	1:K:99:VAL:HG22	2.04	0.57
1:K:344:GLN:HE21	1:K:374:ASN:HD22	1.53	0.57
1:K:561:GLN:CG	2:L:522:ARG:NH2	2.67	0.57
2:L:38:ILE:HG12	2:L:39:ALA:N	2.19	0.57
3:M:125:THR:O	3:M:126:THR:OG1	2.22	0.57
3:M:376:ILE:HG22	3:M:420:LEU:O	2.05	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:M:390:ILE:HG22	3:M:391:GLN:N	2.19	0.57
3:O:278:TRP:O	3:O:279:ILE:HG13	2.05	0.57
3:O:390:ILE:HG22	3:O:391:GLN:N	2.19	0.57
3:R:4:SER:HB3	3:R:22:ARG:HB3	1.85	0.57
4:S:61:ARG:HH11	4:S:61:ARG:HG2	1.70	0.57
4:S:99:CYS:O	4:S:100:GLU:C	2.47	0.57
4:T:7:LEU:HD23	4:T:66:TYR:O	2.03	0.57
4:U:22:ALA:O	4:U:23:THR:OG1	2.22	0.57
4:U:83:LEU:O	4:U:84:ILE:C	2.47	0.57
3:V:106:ASN:O	3:V:107:PHE:C	2.48	0.57
3:V:168:LYS:HE3	3:V:170:GLU:CD	2.28	0.57
4:X:109:LYS:O	4:X:110:ALA:C	2.47	0.57
1:A:344:GLN:C	1:A:346:HIS:H	2.13	0.57
1:A:463:ILE:HD11	1:A:476:ALA:CB	2.34	0.57
1:A:519:THR:HG22	1:A:520:SER:N	2.19	0.57
2:B:191:HIS:HA	2:B:195:ASN:HD22	1.70	0.57
1:C:115:THR:HG22	1:C:116:GLN:N	2.17	0.57
1:C:346:HIS:O	1:C:347:ARG:C	2.45	0.57
2:D:38:ILE:HG12	2:D:39:ALA:N	2.19	0.57
2:D:387:SER:HA	2:D:390:ARG:CD	2.26	0.57
2:D:441:GLU:HG2	2:D:442:PRO:CD	2.33	0.57
2:D:464:GLU:O	2:D:465:LEU:C	2.47	0.57
1:E:103:MET:HA	1:E:103:MET:CE	2.34	0.57
1:E:396:PHE:N	1:E:396:PHE:CD1	2.71	0.57
1:E:476:ALA:O	1:E:477:ALA:C	2.48	0.57
1:G:24:ARG:O	1:G:25:GLU:C	2.46	0.57
1:G:74:ILE:HD12	1:G:74:ILE:N	2.19	0.57
2:H:200:LYS:C	2:H:202:GLN:H	2.12	0.57
2:H:257:LEU:HD11	2:H:568:GLY:N	2.19	0.57
2:H:316:ILE:HB	2:H:317:LEU:HD13	1.87	0.57
2:H:429:ILE:HG22	2:H:430:ALA:N	2.18	0.57
2:J:225:CYS:C	2:J:227:GLY:N	2.61	0.57
1:K:7:LEU:O	1:K:8:ARG:C	2.47	0.57
1:K:24:ARG:O	1:K:25:GLU:C	2.46	0.57
1:K:524:GLY:O	1:K:526:ALA:N	2.38	0.57
3:M:266:SER:O	3:M:267:TYR:HB3	2.03	0.57
3:N:9:LEU:CD2	3:N:15:VAL:HA	2.34	0.57
3:N:386:THR:O	3:N:387:THR:C	2.47	0.57
3:P:173:LEU:C	3:P:173:LEU:CD2	2.76	0.57
3:P:235:ASP:OD1	3:P:236:VAL:N	2.36	0.57
4:Q:22:ALA:O	4:Q:23:THR:OG1	2.22	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:U:131:VAL:O	4:U:132:LEU:C	2.47	0.57
1:A:254:ARG:O	1:A:299:ILE:HD11	2.05	0.57
1:A:368:LEU:O	1:A:371:ALA:N	2.38	0.57
1:A:473:VAL:CG2	1:A:474:GLN:H	2.17	0.57
2:B:45:LYS:HG2	2:B:46:ASP:H	1.70	0.57
2:B:316:ILE:HB	2:B:317:LEU:HD13	1.87	0.57
1:C:473:VAL:CG2	1:C:474:GLN:N	2.67	0.57
1:C:529:ALA:HA	1:C:532:LYS:CG	2.31	0.57
2:D:67:LYS:O	2:D:68:LEU:C	2.47	0.57
2:D:429:ILE:HG22	2:D:430:ALA:N	2.18	0.57
1:E:194:SER:O	1:E:197:LEU:HB3	2.04	0.57
1:E:424:ARG:HG2	1:E:424:ARG:NH1	2.20	0.57
2:F:480:VAL:O	2:F:481:GLN:C	2.46	0.57
2:F:566:TYR:O	2:F:569:THR:CB	2.47	0.57
1:G:53:LEU:O	1:G:56:MET:HB2	2.05	0.57
1:G:73:LEU:O	1:G:74:ILE:C	2.48	0.57
1:G:368:LEU:O	1:G:371:ALA:N	2.38	0.57
1:G:434:ARG:HG3	1:G:436:ASP:OD1	2.04	0.57
1:G:476:ALA:O	1:G:477:ALA:C	2.48	0.57
2:H:253:SER:O	2:H:254:ALA:C	2.48	0.57
2:H:305:ASN:O	2:H:306:ILE:C	2.48	0.57
1:I:53:LEU:O	1:I:56:MET:HB2	2.05	0.57
1:I:73:LEU:O	1:I:74:ILE:C	2.48	0.57
1:I:226:LEU:O	1:I:227:ILE:C	2.47	0.57
1:I:250:LEU:HA	1:I:253:LEU:CD1	2.35	0.57
1:I:424:ARG:HG2	1:I:424:ARG:NH1	2.20	0.57
1:K:73:LEU:O	1:K:74:ILE:C	2.48	0.57
1:K:350:ILE:HD13	1:K:368:LEU:HD21	1.86	0.57
1:K:544:ILE:HG22	1:K:545:LYS:N	2.20	0.57
2:L:175:MET:HE3	3:V:124:GLN:HB3	1.86	0.57
3:O:4:SER:HB3	3:O:22:ARG:HB3	1.85	0.57
3:P:112:GLU:O	3:P:113:LEU:C	2.48	0.57
3:P:266:SER:O	3:P:267:TYR:HB3	2.03	0.57
3:P:390:ILE:HG22	3:P:391:GLN:N	2.19	0.57
4:T:22:ALA:O	4:T:23:THR:OG1	2.22	0.57
4:U:5:MET:HG3	4:U:68:CYS:O	2.04	0.57
4:U:90:LEU:O	4:U:91:LEU:C	2.45	0.57
3:V:5:ALA:HB3	3:V:70:THR:HB	1.86	0.57
1:A:442:ILE:HD11	1:A:475:VAL:HG13	1.86	0.57
1:A:473:VAL:CG2	1:A:474:GLN:N	2.67	0.57
2:B:31:LYS:CE	2:B:64:GLU:HG2	2.35	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:38:ILE:HG12	2:B:39:ALA:N	2.19	0.57
2:B:68:LEU:O	2:B:69:VAL:C	2.46	0.57
2:B:144:CYS:HA	2:B:147:LYS:HD2	1.85	0.57
2:B:464:GLU:O	2:B:465:LEU:C	2.47	0.57
2:B:473:PHE:CG	2:B:474:HIS:N	2.64	0.57
2:B:491:LEU:HD13	2:B:499:THR:HG22	1.87	0.57
1:C:313:LEU:HD23	1:C:313:LEU:N	2.20	0.57
1:C:350:ILE:HD13	1:C:368:LEU:HD21	1.86	0.57
1:C:508:ILE:HD12	1:C:508:ILE:N	2.20	0.57
2:D:113:ILE:HG22	2:D:114:ARG:N	2.17	0.57
2:D:316:ILE:HB	2:D:317:LEU:HD13	1.87	0.57
2:D:466:LEU:H	2:D:466:LEU:CD1	2.17	0.57
1:E:24:ARG:O	1:E:25:GLU:C	2.46	0.57
1:E:327:VAL:O	1:E:328:ALA:C	2.48	0.57
1:E:368:LEU:O	1:E:371:ALA:N	2.38	0.57
2:F:305:ASN:O	2:F:306:ILE:C	2.48	0.57
2:F:470:LEU:O	2:F:471:ASP:C	2.46	0.57
1:G:7:LEU:O	1:G:8:ARG:C	2.47	0.57
1:G:313:LEU:HD23	1:G:313:LEU:N	2.19	0.57
1:G:344:GLN:HE21	1:G:374:ASN:HD22	1.53	0.57
1:G:396:PHE:N	1:G:396:PHE:CD1	2.71	0.57
2:H:68:LEU:O	2:H:69:VAL:C	2.46	0.57
1:I:434:ARG:HG3	1:I:436:ASP:OD1	2.04	0.57
2:J:31:LYS:CE	2:J:64:GLU:HG2	2.35	0.57
2:J:45:LYS:HG2	2:J:46:ASP:H	1.70	0.57
2:L:429:ILE:HG22	2:L:430:ALA:N	2.18	0.57
2:L:493:LEU:C	2:L:495:LYS:N	2.62	0.57
3:M:390:ILE:HG22	3:M:391:GLN:H	1.70	0.57
3:O:376:ILE:HG22	3:O:420:LEU:O	2.04	0.57
3:O:409:VAL:CG1	3:O:410:ARG:N	2.67	0.57
4:Q:131:VAL:O	4:Q:132:LEU:C	2.47	0.57
4:S:83:LEU:O	4:S:84:ILE:C	2.47	0.57
3:V:112:GLU:O	3:V:113:LEU:C	2.48	0.57
3:V:312:ILE:HB	3:V:343:TRP:HB3	1.86	0.57
4:W:15:ARG:NH1	4:W:104:ILE:HD13	2.19	0.57
4:W:99:CYS:SG	4:W:100:GLU:N	2.77	0.57
1:A:226:LEU:O	1:A:227:ILE:C	2.47	0.57
1:A:478:TRP:HA	1:A:478:TRP:HE3	1.67	0.57
1:A:573:TYR:O	1:A:574:ASP:C	2.48	0.57
2:B:39:ALA:O	2:B:41:MET:N	2.38	0.57
2:B:69:VAL:O	2:B:72:TYR:HB3	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:225:CYS:C	2:B:227:GLY:N	2.61	0.57
1:C:187:ASN:ND2	1:C:188:HIS:N	2.52	0.57
1:C:344:GLN:C	1:C:346:HIS:H	2.13	0.57
1:C:372:LEU:HD12	1:C:372:LEU:H	1.68	0.57
1:C:396:PHE:N	1:C:396:PHE:CD1	2.71	0.57
1:C:424:ARG:HG2	1:C:424:ARG:NH1	2.20	0.57
1:C:506:LEU:O	1:C:507:ASP:C	2.47	0.57
2:D:138:ARG:O	2:D:139:LYS:C	2.46	0.57
2:D:144:CYS:HA	2:D:147:LYS:HD2	1.85	0.57
2:D:175:MET:O	2:D:178:ALA:HB3	2.04	0.57
2:D:566:TYR:O	2:D:572:SER:HB2	2.03	0.57
1:E:53:LEU:O	1:E:56:MET:HB2	2.05	0.57
1:E:73:LEU:O	1:E:74:ILE:C	2.48	0.57
1:E:168:VAL:HG12	1:E:168:VAL:O	2.05	0.57
1:E:313:LEU:N	1:E:313:LEU:HD23	2.19	0.57
2:F:20:ALA:C	2:F:22:LEU:N	2.60	0.57
2:F:68:LEU:O	2:F:69:VAL:C	2.46	0.57
2:F:211:LEU:HD11	2:F:223:LEU:HD21	1.86	0.57
2:F:316:ILE:HB	2:F:317:LEU:HD13	1.87	0.57
2:F:407:VAL:O	2:F:408:GLN:C	2.48	0.57
1:G:327:VAL:O	1:G:328:ALA:C	2.48	0.57
1:G:413:PRO:HD2	1:G:417:TRP:CE3	2.40	0.57
2:H:456:ALA:O	2:H:457:GLU:C	2.47	0.57
2:H:464:GLU:O	2:H:465:LEU:C	2.47	0.57
2:H:486:THR:CG2	2:H:487:ALA:N	2.67	0.57
2:H:566:TYR:O	2:H:569:THR:CB	2.47	0.57
1:I:344:GLN:C	1:I:346:HIS:H	2.13	0.57
1:I:350:ILE:HD13	1:I:368:LEU:HD21	1.86	0.57
1:I:413:PRO:HD2	1:I:417:TRP:CE3	2.40	0.57
1:I:561:GLN:CG	2:J:522:ARG:NH2	2.67	0.57
2:J:253:SER:O	2:J:254:ALA:C	2.48	0.57
1:K:192:HIS:O	1:K:193:THR:C	2.48	0.57
1:K:313:LEU:HD23	1:K:313:LEU:N	2.20	0.57
1:K:421:THR:O	1:K:422:ILE:C	2.47	0.57
1:K:430:GLY:HA2	1:K:433:VAL:HG23	1.87	0.57
1:K:434:ARG:HG3	1:K:436:ASP:OD1	2.04	0.57
1:K:442:ILE:HD11	1:K:475:VAL:HG13	1.86	0.57
1:K:506:LEU:O	1:K:507:ASP:C	2.47	0.57
2:L:139:LYS:O	2:L:142:ALA:HB3	2.05	0.57
2:L:569:THR:O	2:L:572:SER:CB	2.53	0.57
3:N:112:GLU:O	3:N:113:LEU:C	2.48	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:O:63:ASN:O	3:O:64:ASN:HB3	2.05	0.57
3:P:390:ILE:HG22	3:P:391:GLN:H	1.70	0.57
3:R:63:ASN:O	3:R:64:ASN:HB3	2.05	0.57
4:U:99:CYS:O	4:U:100:GLU:C	2.47	0.57
3:V:9:LEU:CD2	3:V:15:VAL:HA	2.34	0.57
3:V:390:ILE:HG22	3:V:391:GLN:N	2.19	0.57
4:X:61:ARG:HH11	4:X:61:ARG:HG2	1.70	0.57
2:B:67:LYS:O	2:B:68:LEU:C	2.47	0.57
1:C:73:LEU:O	1:C:74:ILE:C	2.48	0.57
1:C:194:SER:O	1:C:197:LEU:HB3	2.04	0.57
1:C:327:VAL:O	1:C:328:ALA:C	2.48	0.57
1:C:524:GLY:O	1:C:526:ALA:N	2.38	0.57
1:E:135:CYS:CB	1:E:164:VAL:HG13	2.22	0.57
1:E:430:GLY:HA2	1:E:433:VAL:HG23	1.87	0.57
1:E:524:GLY:O	1:E:526:ALA:N	2.38	0.57
2:F:491:LEU:HD13	2:F:499:THR:HG22	1.87	0.57
1:G:126:LEU:HD23	1:G:126:LEU:C	2.30	0.57
1:G:417:TRP:O	1:G:418:HIS:C	2.47	0.57
1:G:519:THR:HG22	1:G:520:SER:N	2.19	0.57
2:H:38:ILE:HG12	2:H:39:ALA:N	2.19	0.57
2:H:491:LEU:HD13	2:H:499:THR:HG22	1.87	0.57
2:H:570:LEU:HD11	3:P:75:ALA:H	1.69	0.57
1:I:327:VAL:O	1:I:328:ALA:C	2.48	0.57
1:I:372:LEU:HD12	1:I:372:LEU:H	1.68	0.57
1:I:524:GLY:O	1:I:526:ALA:N	2.38	0.57
2:J:39:ALA:O	2:J:41:MET:N	2.38	0.57
2:J:88:VAL:HG11	2:J:121:TYR:HD2	1.69	0.57
2:J:139:LYS:O	2:J:142:ALA:HB3	2.05	0.57
2:J:486:THR:CG2	2:J:487:ALA:N	2.67	0.57
1:K:187:ASN:ND2	1:K:188:HIS:N	2.52	0.57
1:K:285:GLY:O	1:K:286:ASN:C	2.45	0.57
2:L:39:ALA:O	2:L:41:MET:N	2.38	0.57
2:L:316:ILE:HB	2:L:317:LEU:HD13	1.87	0.57
3:M:112:GLU:O	3:M:113:LEU:C	2.48	0.57
3:O:286:HIS:CG	3:O:287:SER:H	2.20	0.57
3:P:48:PRO:O	3:P:49:ILE:HD13	2.05	0.57
3:P:278:TRP:O	3:P:279:ILE:HG13	2.05	0.57
3:R:312:ILE:HB	3:R:343:TRP:HB3	1.86	0.57
3:R:390:ILE:HG22	3:R:391:GLN:H	1.70	0.57
4:T:131:VAL:O	4:T:132:LEU:C	2.47	0.57
3:V:48:PRO:O	3:V:49:ILE:HD13	2.05	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:V:162:GLU:HG3	3:V:163:GLY:H	1.69	0.57
4:X:131:VAL:O	4:X:132:LEU:C	2.47	0.57
1:A:344:GLN:HE21	1:A:374:ASN:HD22	1.53	0.56
1:A:506:LEU:O	1:A:507:ASP:C	2.47	0.56
2:B:256:VAL:O	2:B:260:VAL:HG23	2.05	0.56
2:B:446:ALA:HA	2:B:480:VAL:HG23	1.86	0.56
2:B:569:THR:O	2:B:572:SER:CB	2.53	0.56
1:C:103:MET:HA	1:C:103:MET:CE	2.35	0.56
1:C:430:GLY:HA2	1:C:433:VAL:HG23	1.87	0.56
2:D:413:VAL:O	2:D:414:ILE:C	2.46	0.56
2:D:569:THR:O	2:D:572:SER:CB	2.53	0.56
1:E:413:PRO:HD2	1:E:417:TRP:CE3	2.40	0.56
1:E:417:TRP:O	1:E:418:HIS:C	2.47	0.56
2:F:45:LYS:HG2	2:F:46:ASP:H	1.70	0.56
2:F:446:ALA:O	2:F:447:ALA:C	2.48	0.56
2:F:521:ASP:O	2:F:523:GLY:N	2.38	0.56
1:G:187:ASN:ND2	1:G:188:HIS:N	2.52	0.56
1:G:421:THR:O	1:G:422:ILE:C	2.47	0.56
1:G:561:GLN:CG	2:H:522:ARG:NH2	2.67	0.56
2:H:31:LYS:CE	2:H:64:GLU:HG2	2.35	0.56
1:I:446:THR:HG23	1:I:447:ASN:H	1.70	0.56
2:J:38:ILE:HG12	2:J:39:ALA:N	2.19	0.56
2:J:164:THR:HG22	2:J:168:LEU:CD1	2.31	0.56
2:J:256:VAL:O	2:J:260:VAL:HG23	2.05	0.56
2:J:502:LEU:O	2:J:503:VAL:C	2.48	0.56
2:J:569:THR:CG2	2:J:570:LEU:N	2.68	0.56
1:K:473:VAL:CG2	1:K:474:GLN:H	2.17	0.56
2:L:257:LEU:HD11	2:L:568:GLY:N	2.19	0.56
3:M:162:GLU:HG3	3:M:163:GLY:H	1.69	0.56
3:M:314:ILE:HB	3:M:341:ILE:CG2	2.29	0.56
3:N:390:ILE:HG22	3:N:391:GLN:N	2.19	0.56
3:O:390:ILE:HG22	3:O:391:GLN:H	1.70	0.56
3:P:399:GLU:HG2	3:P:401:SER:OG	2.04	0.56
4:Q:5:MET:HG3	4:Q:68:CYS:O	2.04	0.56
4:Q:90:LEU:CD2	4:Q:90:LEU:H	2.18	0.56
3:V:25:VAL:HG12	3:V:25:VAL:O	2.05	0.56
3:V:278:TRP:O	3:V:279:ILE:HG13	2.05	0.56
1:A:71:LEU:CA	1:A:74:ILE:HD13	2.29	0.56
1:A:519:THR:HB	1:A:521:VAL:HG12	1.87	0.56
1:A:524:GLY:O	1:A:526:ALA:N	2.38	0.56
2:B:175:MET:O	2:B:178:ALA:HB3	2.04	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:175:MET:HE3	3:M:124:GLN:HB3	1.86	0.56
2:B:446:ALA:O	2:B:447:ALA:C	2.48	0.56
2:B:492:PHE:CB	2:B:503:VAL:HG21	2.35	0.56
1:C:368:LEU:O	1:C:371:ALA:N	2.38	0.56
1:C:519:THR:HB	1:C:521:VAL:HG12	1.87	0.56
1:E:344:GLN:C	1:E:346:HIS:H	2.13	0.56
2:F:446:ALA:HA	2:F:480:VAL:HG23	1.86	0.56
2:F:488:ILE:HG22	2:F:503:VAL:HG22	1.87	0.56
1:G:411:TYR:H	1:G:411:TYR:HD1	1.52	0.56
1:G:539:CYS:C	1:G:541:VAL:H	2.13	0.56
2:H:569:THR:CG2	2:H:570:LEU:N	2.68	0.56
2:J:464:GLU:O	2:J:465:LEU:C	2.47	0.56
1:K:468:SER:O	1:K:469:GLN:CB	2.42	0.56
3:R:48:PRO:O	3:R:49:ILE:HD13	2.05	0.56
4:W:83:LEU:O	4:W:84:ILE:C	2.47	0.56
1:A:378:ILE:O	1:A:379:ARG:C	2.49	0.56
1:A:413:PRO:HD2	1:A:417:TRP:CE3	2.40	0.56
1:A:421:THR:O	1:A:422:ILE:C	2.47	0.56
1:A:487:LEU:O	1:A:487:LEU:HG	2.03	0.56
1:A:508:ILE:HD12	1:A:508:ILE:N	2.20	0.56
2:B:134:ASP:HB2	2:B:137:VAL:CG2	2.36	0.56
2:B:253:SER:O	2:B:254:ALA:C	2.48	0.56
1:C:113:HIS:CD2	1:C:115:THR:H	2.23	0.56
1:C:389:LEU:CD2	1:C:425:VAL:HG23	2.36	0.56
1:C:413:PRO:HD2	1:C:417:TRP:CE3	2.40	0.56
1:C:446:THR:HG23	1:C:447:ASN:H	1.70	0.56
1:C:524:GLY:O	1:C:525:TYR:C	2.49	0.56
1:C:539:CYS:C	1:C:541:VAL:H	2.13	0.56
2:D:31:LYS:CE	2:D:64:GLU:HG2	2.35	0.56
2:D:39:ALA:O	2:D:41:MET:N	2.38	0.56
2:D:292:LEU:C	2:D:294:ALA:N	2.61	0.56
2:D:305:ASN:O	2:D:306:ILE:C	2.48	0.56
2:D:491:LEU:HD13	2:D:499:THR:HG21	1.87	0.56
2:D:492:PHE:CB	2:D:503:VAL:HG21	2.35	0.56
2:D:569:THR:CG2	2:D:570:LEU:N	2.68	0.56
1:E:7:LEU:O	1:E:8:ARG:C	2.47	0.56
1:E:113:HIS:CD2	1:E:115:THR:H	2.23	0.56
1:E:254:ARG:O	1:E:299:ILE:HD11	2.05	0.56
1:E:316:PHE:O	1:E:319:ASN:N	2.35	0.56
1:E:446:THR:HG23	1:E:447:ASN:H	1.70	0.56
2:F:18:LEU:H	2:F:18:LEU:CD2	2.19	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:39:ALA:O	2:F:41:MET:N	2.38	0.56
2:F:129:CYS:O	2:F:132:ASP:HB2	2.06	0.56
2:F:492:PHE:CB	2:F:503:VAL:HG21	2.35	0.56
2:F:502:LEU:O	2:F:503:VAL:C	2.48	0.56
2:F:569:THR:CG2	2:F:570:LEU:N	2.68	0.56
1:G:344:GLN:C	1:G:346:HIS:H	2.13	0.56
1:G:442:ILE:HD11	1:G:475:VAL:HG13	1.86	0.56
1:G:478:TRP:HA	1:G:478:TRP:HE3	1.67	0.56
1:G:573:TYR:O	1:G:574:ASP:C	2.48	0.56
2:H:256:VAL:O	2:H:260:VAL:HG23	2.05	0.56
2:H:292:LEU:C	2:H:294:ALA:N	2.61	0.56
2:H:407:VAL:O	2:H:408:GLN:C	2.48	0.56
2:H:415:LYS:HD2	2:H:447:ALA:CB	2.34	0.56
2:H:521:ASP:O	2:H:523:GLY:N	2.38	0.56
1:I:103:MET:HA	1:I:103:MET:CE	2.35	0.56
1:I:353:CYS:O	1:I:356:ASP:N	2.39	0.56
1:I:361:ILE:O	1:I:362:LYS:C	2.46	0.56
1:I:508:ILE:HD12	1:I:508:ILE:N	2.20	0.56
1:I:519:THR:HG22	1:I:520:SER:N	2.19	0.56
1:I:544:ILE:HG22	1:I:545:LYS:N	2.20	0.56
2:J:18:LEU:H	2:J:18:LEU:CD2	2.19	0.56
2:J:191:HIS:HA	2:J:195:ASN:HD22	1.70	0.56
2:J:200:LYS:C	2:J:202:GLN:H	2.12	0.56
2:J:305:ASN:O	2:J:306:ILE:C	2.48	0.56
2:J:521:ASP:O	2:J:523:GLY:N	2.38	0.56
1:K:53:LEU:O	1:K:56:MET:HB2	2.05	0.56
1:K:74:ILE:HD12	1:K:74:ILE:N	2.19	0.56
1:K:103:MET:HA	1:K:103:MET:CE	2.35	0.56
1:K:126:LEU:HD23	1:K:126:LEU:C	2.30	0.56
1:K:168:VAL:O	1:K:168:VAL:HG12	2.05	0.56
1:K:375:GLY:C	1:K:377:ASN:H	2.14	0.56
1:K:478:TRP:CH2	1:K:532:LYS:NZ	2.73	0.56
1:K:539:CYS:C	1:K:541:VAL:H	2.13	0.56
2:L:200:LYS:C	2:L:202:GLN:H	2.12	0.56
2:L:256:VAL:O	2:L:260:VAL:HG23	2.05	0.56
3:M:63:ASN:O	3:M:64:ASN:HB3	2.05	0.56
3:M:95:PHE:CB	3:M:141:LYS:HA	2.36	0.56
3:M:131:LEU:O	3:M:134:PHE:N	2.34	0.56
3:M:325:PHE:CD2	3:M:325:PHE:N	2.72	0.56
3:N:106:ASN:O	3:N:107:PHE:C	2.48	0.56
4:Q:18:LYS:HG3	4:Q:20:TYR:HE1	1.71	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:Q:109:LYS:O	4:Q:110:ALA:C	2.47	0.56
3:R:25:VAL:O	3:R:25:VAL:HG12	2.05	0.56
3:R:106:ASN:O	3:R:107:PHE:C	2.48	0.56
3:R:323:PRO:HB3	3:R:325:PHE:CE2	2.41	0.56
4:T:16:LEU:CD1	4:T:111:TYR:CZ	2.89	0.56
3:V:390:ILE:HG22	3:V:391:GLN:H	1.70	0.56
4:X:5:MET:HG3	4:X:68:CYS:O	2.04	0.56
4:X:83:LEU:O	4:X:84:ILE:C	2.47	0.56
4:X:99:CYS:SG	4:X:100:GLU:N	2.77	0.56
1:A:162:VAL:O	1:A:163:HIS:C	2.49	0.56
1:A:267:MET:O	1:A:269:ASP:N	2.39	0.56
1:A:389:LEU:CD2	1:A:425:VAL:HG23	2.36	0.56
1:A:424:ARG:HG2	1:A:424:ARG:NH1	2.20	0.56
2:B:582:VAL:O	2:B:584:GLY:N	2.38	0.56
1:C:126:LEU:HD23	1:C:126:LEU:C	2.30	0.56
1:C:476:ALA:O	1:C:477:ALA:C	2.48	0.56
2:D:306:ILE:O	2:D:309:ILE:HB	2.06	0.56
1:E:524:GLY:O	1:E:525:TYR:C	2.49	0.56
2:F:91:PHE:O	2:F:94:ASP:N	2.38	0.56
2:F:161:PHE:HA	2:F:164:THR:OG1	2.05	0.56
2:H:337:GLU:O	2:H:341:ILE:HD13	2.06	0.56
2:H:446:ALA:O	2:H:447:ALA:C	2.48	0.56
2:H:480:VAL:O	2:H:481:GLN:C	2.46	0.56
1:I:126:LEU:HD23	1:I:126:LEU:C	2.30	0.56
1:I:519:THR:HB	1:I:521:VAL:HG12	1.87	0.56
1:I:533:LEU:HB3	1:I:537:PHE:CE1	2.41	0.56
2:J:39:ALA:C	2:J:41:MET:N	2.61	0.56
2:J:488:ILE:HG22	2:J:503:VAL:HG22	1.87	0.56
1:K:312:ILE:O	1:K:315:ARG:HB3	2.06	0.56
2:L:45:LYS:HG2	2:L:46:ASP:H	1.70	0.56
2:L:410:ALA:O	2:L:411:ILE:C	2.46	0.56
2:L:569:THR:CG2	2:L:570:LEU:N	2.68	0.56
3:M:278:TRP:O	3:M:279:ILE:HG13	2.05	0.56
3:M:337:GLU:O	3:M:338:ASN:HB2	2.05	0.56
3:N:88:VAL:O	3:N:89:GLN:C	2.48	0.56
3:N:312:ILE:HB	3:N:343:TRP:HB3	1.86	0.56
3:N:323:PRO:HB3	3:N:325:PHE:CE2	2.41	0.56
3:P:323:PRO:HB3	3:P:325:PHE:CE2	2.41	0.56
4:S:131:VAL:O	4:S:132:LEU:C	2.47	0.56
4:U:16:LEU:CD1	4:U:111:TYR:CZ	2.89	0.56
3:V:386:THR:O	3:V:387:THR:C	2.47	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:153:LEU:HD23	1:A:153:LEU:N	2.21	0.56
1:A:327:VAL:O	1:A:328:ALA:C	2.48	0.56
1:A:430:GLY:HA2	1:A:433:VAL:HG23	1.87	0.56
1:A:533:LEU:HB3	1:A:537:PHE:CE1	2.41	0.56
2:B:337:GLU:O	2:B:341:ILE:HD13	2.06	0.56
1:C:168:VAL:HG12	1:C:168:VAL:O	2.05	0.56
1:C:406:LEU:O	1:C:407:ALA:C	2.49	0.56
1:C:519:THR:HG22	1:C:520:SER:N	2.19	0.56
1:C:544:ILE:HG22	1:C:545:LYS:N	2.20	0.56
2:D:20:ALA:C	2:D:22:LEU:N	2.60	0.56
2:D:256:VAL:O	2:D:260:VAL:HG23	2.05	0.56
1:E:66:GLY:O	1:E:67:GLN:C	2.48	0.56
1:E:71:LEU:CA	1:E:74:ILE:HD13	2.29	0.56
2:F:200:LYS:C	2:F:202:GLN:H	2.12	0.56
2:F:256:VAL:O	2:F:260:VAL:HG23	2.05	0.56
2:F:456:ALA:O	2:F:457:GLU:C	2.47	0.56
1:G:192:HIS:O	1:G:193:THR:C	2.48	0.56
1:G:250:LEU:HA	1:G:253:LEU:CD1	2.34	0.56
1:G:267:MET:O	1:G:269:ASP:N	2.39	0.56
1:G:424:ARG:HG2	1:G:424:ARG:NH1	2.20	0.56
1:G:445:ILE:CD1	1:G:455:THR:HG21	2.36	0.56
1:G:446:THR:HG23	1:G:447:ASN:H	1.70	0.56
1:G:519:THR:HB	1:G:521:VAL:HG12	1.87	0.56
2:H:139:LYS:O	2:H:142:ALA:HB3	2.05	0.56
2:H:161:PHE:HA	2:H:164:THR:OG1	2.05	0.56
1:I:168:VAL:HG12	1:I:168:VAL:O	2.05	0.56
1:I:417:TRP:O	1:I:418:HIS:C	2.47	0.56
1:I:421:THR:O	1:I:422:ILE:C	2.47	0.56
1:I:463:ILE:HD11	1:I:476:ALA:CB	2.34	0.56
1:I:539:CYS:C	1:I:541:VAL:H	2.13	0.56
2:J:446:ALA:HA	2:J:480:VAL:HG23	1.86	0.56
2:J:569:THR:O	2:J:572:SER:CB	2.53	0.56
1:K:191:LEU:O	1:K:195:VAL:HG23	2.06	0.56
1:K:267:MET:O	1:K:269:ASP:N	2.39	0.56
1:K:424:ARG:HG2	1:K:424:ARG:NH1	2.20	0.56
1:K:508:ILE:HD12	1:K:508:ILE:N	2.20	0.56
2:L:446:ALA:O	2:L:447:ALA:C	2.48	0.56
2:L:491:LEU:HD13	2:L:499:THR:HG22	1.87	0.56
2:L:491:LEU:HD13	2:L:499:THR:HG21	1.88	0.56
3:M:312:ILE:HB	3:M:343:TRP:HB3	1.86	0.56
3:N:125:THR:O	3:N:126:THR:OG1	2.22	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:O:48:PRO:O	3:O:49:ILE:HD13	2.05	0.56
3:O:112:GLU:O	3:O:113:LEU:C	2.48	0.56
3:O:131:LEU:O	3:O:134:PHE:N	2.34	0.56
3:R:386:THR:O	3:R:387:THR:C	2.47	0.56
3:V:63:ASN:O	3:V:64:ASN:HB3	2.05	0.56
1:A:7:LEU:O	1:A:8:ARG:C	2.47	0.56
1:A:85:GLY:O	1:A:86:TYR:C	2.49	0.56
1:A:539:CYS:C	1:A:541:VAL:H	2.13	0.56
2:B:317:LEU:HD22	2:B:317:LEU:N	2.13	0.56
2:B:466:LEU:H	2:B:466:LEU:CD1	2.17	0.56
2:B:521:ASP:O	2:B:523:GLY:N	2.38	0.56
1:C:191:LEU:O	1:C:195:VAL:HG23	2.06	0.56
1:C:226:LEU:O	1:C:227:ILE:C	2.47	0.56
1:C:254:ARG:O	1:C:299:ILE:HD11	2.05	0.56
2:D:175:MET:HE3	3:N:124:GLN:HB3	1.86	0.56
2:D:252:ASN:O	2:D:253:SER:C	2.49	0.56
2:D:446:ALA:O	2:D:447:ALA:C	2.48	0.56
2:D:521:ASP:O	2:D:523:GLY:N	2.38	0.56
1:E:126:LEU:HD23	1:E:126:LEU:C	2.30	0.56
1:E:153:LEU:O	1:E:154:ARG:C	2.49	0.56
1:E:350:ILE:HD13	1:E:368:LEU:HD21	1.86	0.56
1:E:375:GLY:C	1:E:377:ASN:H	2.14	0.56
1:E:508:ILE:N	1:E:508:ILE:HD12	2.20	0.56
2:F:253:SER:O	2:F:254:ALA:C	2.48	0.56
2:F:337:GLU:O	2:F:341:ILE:HD13	2.06	0.56
2:F:466:LEU:H	2:F:466:LEU:CD1	2.17	0.56
1:G:120:GLY:O	1:G:121:LEU:C	2.49	0.56
1:G:191:LEU:O	1:G:195:VAL:HG23	2.06	0.56
2:H:452:VAL:O	2:H:453:GLY:C	2.49	0.56
2:H:488:ILE:HG22	2:H:503:VAL:HG22	1.87	0.56
2:H:492:PHE:CB	2:H:503:VAL:HG21	2.35	0.56
2:J:134:ASP:HB2	2:J:137:VAL:CG2	2.36	0.56
2:J:452:VAL:O	2:J:453:GLY:C	2.49	0.56
1:K:71:LEU:CA	1:K:74:ILE:HD13	2.29	0.56
1:K:226:LEU:O	1:K:227:ILE:C	2.47	0.56
1:K:413:PRO:HD2	1:K:417:TRP:CE3	2.40	0.56
2:L:39:ALA:C	2:L:41:MET:N	2.61	0.56
2:L:134:ASP:HB2	2:L:137:VAL:CG2	2.36	0.56
2:L:337:GLU:O	2:L:341:ILE:HD13	2.06	0.56
3:R:376:ILE:HG22	3:R:420:LEU:O	2.05	0.56
4:S:16:LEU:CD1	4:S:111:TYR:CZ	2.89	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:W:61:ARG:HH11	4:W:61:ARG:HG2	1.70	0.56
1:A:361:ILE:O	1:A:362:LYS:C	2.46	0.56
2:B:177:VAL:O	2:B:181:VAL:HG23	2.06	0.56
1:C:120:GLY:O	1:C:121:LEU:C	2.49	0.56
1:C:274:VAL:HG11	1:C:292:THR:CG2	2.32	0.56
1:C:430:GLY:C	1:C:432:TYR:N	2.64	0.56
1:C:573:TYR:O	1:C:574:ASP:C	2.48	0.56
2:D:45:LYS:HG2	2:D:46:ASP:H	1.70	0.56
2:D:139:LYS:O	2:D:142:ALA:HB3	2.05	0.56
1:E:120:GLY:O	1:E:121:LEU:C	2.49	0.56
1:E:573:TYR:O	1:E:574:ASP:C	2.48	0.56
2:F:347:SER:CA	2:F:350:ASN:HD22	2.19	0.56
2:F:464:GLU:O	2:F:465:LEU:C	2.47	0.56
1:G:270:ILE:HG23	1:G:271:LEU:N	2.19	0.56
1:G:524:GLY:O	1:G:525:TYR:C	2.49	0.56
1:G:544:ILE:HG22	1:G:545:LYS:N	2.20	0.56
2:H:109:THR:O	2:H:110:MET:C	2.49	0.56
2:H:129:CYS:O	2:H:132:ASP:HB2	2.06	0.56
2:H:252:ASN:O	2:H:253:SER:C	2.49	0.56
1:I:244:PHE:O	1:I:245:LEU:C	2.47	0.56
1:I:312:ILE:O	1:I:315:ARG:HB3	2.06	0.56
1:I:389:LEU:CD2	1:I:425:VAL:HG23	2.36	0.56
1:I:573:TYR:O	1:I:574:ASP:C	2.48	0.56
2:J:324:PHE:HE2	2:J:341:ILE:HG21	1.70	0.56
1:K:87:LEU:HA	1:K:90:MET:HE3	1.88	0.56
1:K:115:THR:HG22	1:K:116:GLN:N	2.16	0.56
1:K:162:VAL:O	1:K:163:HIS:C	2.49	0.56
1:K:344:GLN:C	1:K:346:HIS:H	2.13	0.56
1:K:378:ILE:O	1:K:379:ARG:C	2.49	0.56
1:K:397:LYS:O	1:K:398:ALA:C	2.49	0.56
1:K:445:ILE:CD1	1:K:455:THR:HG21	2.36	0.56
2:L:458:ARG:HD3	2:L:458:ARG:C	2.31	0.56
2:L:488:ILE:HG22	2:L:503:VAL:HG22	1.87	0.56
2:L:502:LEU:O	2:L:503:VAL:C	2.49	0.56
3:N:174:ASP:N	3:N:174:ASP:OD2	2.39	0.56
3:O:337:GLU:O	3:O:338:ASN:HB2	2.05	0.56
3:R:162:GLU:HG3	3:R:163:GLY:H	1.69	0.56
4:T:83:LEU:O	4:T:86:ARG:N	2.37	0.56
4:T:99:CYS:SG	4:T:100:GLU:N	2.77	0.56
4:X:16:LEU:CD1	4:X:111:TYR:CZ	2.89	0.56
4:X:71:ILE:HG22	4:X:72:GLU:H	1.71	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:74:ILE:HD12	1:A:74:ILE:N	2.19	0.56
1:A:96:ARG:O	1:A:99:VAL:HG22	2.04	0.56
1:A:103:MET:HA	1:A:103:MET:CE	2.34	0.56
1:A:445:ILE:CD1	1:A:455:THR:HG21	2.36	0.56
1:A:476:ALA:O	1:A:477:ALA:C	2.48	0.56
1:A:589:LYS:HG2	1:A:590:VAL:N	2.21	0.56
2:B:18:LEU:H	2:B:18:LEU:CD2	2.19	0.56
1:C:54:LEU:O	1:C:57:HIS:HB3	2.06	0.56
2:D:88:VAL:HG11	2:D:121:TYR:HD2	1.69	0.56
2:D:129:CYS:O	2:D:132:ASP:HB2	2.06	0.56
2:D:177:VAL:O	2:D:181:VAL:HG23	2.06	0.56
2:D:461:ASN:HB3	2:D:465:LEU:HD11	1.88	0.56
1:E:558:GLU:O	1:E:559:LEU:C	2.49	0.56
2:F:458:ARG:HD3	2:F:458:ARG:C	2.31	0.56
2:F:491:LEU:HD13	2:F:499:THR:HG21	1.88	0.56
1:G:135:CYS:CB	1:G:164:VAL:HG13	2.22	0.56
1:G:430:GLY:C	1:G:432:TYR:N	2.64	0.56
2:H:67:LYS:O	2:H:68:LEU:C	2.47	0.56
1:I:267:MET:O	1:I:269:ASP:N	2.39	0.56
1:I:316:PHE:O	1:I:319:ASN:N	2.35	0.56
1:I:406:LEU:O	1:I:407:ALA:C	2.49	0.56
1:I:524:GLY:O	1:I:525:TYR:C	2.49	0.56
2:J:161:PHE:HA	2:J:164:THR:OG1	2.05	0.56
2:J:470:LEU:C	2:J:472:GLY:N	2.64	0.56
1:K:8:ARG:HD2	3:P:337:GLU:HB2	1.88	0.56
1:K:446:THR:HG23	1:K:447:ASN:H	1.70	0.56
1:K:460:TYR:HA	1:K:463:ILE:HD12	1.88	0.56
2:L:177:VAL:O	2:L:181:VAL:HG23	2.06	0.56
2:L:325:PHE:CE2	2:L:357:GLU:HG3	2.41	0.56
3:R:5:ALA:HB3	3:R:70:THR:HB	1.86	0.56
4:S:90:LEU:CD2	4:S:90:LEU:H	2.18	0.56
4:T:33:ARG:CG	4:T:34:GLU:H	2.19	0.56
4:T:71:ILE:HG22	4:T:72:GLU:H	1.71	0.56
4:T:109:LYS:O	4:T:110:ALA:C	2.47	0.56
3:V:36:ILE:O	3:V:37:LEU:C	2.48	0.56
3:V:88:VAL:O	3:V:89:GLN:C	2.48	0.56
3:V:95:PHE:CB	3:V:141:LYS:HA	2.36	0.56
4:X:129:LYS:HB3	4:X:133:LYS:HE3	1.88	0.56
1:A:7:LEU:C	1:A:7:LEU:HD23	2.31	0.56
1:A:87:LEU:HA	1:A:90:MET:HE3	1.88	0.56
2:B:91:PHE:O	2:B:94:ASP:N	2.38	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:200:LYS:C	2:B:202:GLN:H	2.12	0.56
2:B:325:PHE:CE2	2:B:357:GLU:HG3	2.41	0.56
2:B:491:LEU:HD13	2:B:499:THR:HG21	1.88	0.56
1:C:7:LEU:C	1:C:7:LEU:HD23	2.31	0.56
1:C:350:ILE:HD13	1:C:368:LEU:CD2	2.36	0.56
1:E:7:LEU:C	1:E:7:LEU:HD23	2.31	0.56
1:E:250:LEU:HA	1:E:253:LEU:CD1	2.34	0.56
2:F:134:ASP:HB2	2:F:137:VAL:CG2	2.36	0.56
2:F:177:VAL:O	2:F:181:VAL:HG23	2.06	0.56
1:G:54:LEU:O	1:G:57:HIS:HB3	2.06	0.56
1:G:254:ARG:O	1:G:299:ILE:HD11	2.05	0.56
1:G:369:SER:O	1:G:370:PHE:C	2.46	0.56
1:G:478:TRP:CH2	1:G:532:LYS:NZ	2.73	0.56
2:H:177:VAL:O	2:H:181:VAL:HG23	2.06	0.56
1:I:430:GLY:HA2	1:I:433:VAL:HG23	1.87	0.56
2:J:387:SER:CA	2:J:390:ARG:HD2	2.25	0.56
2:J:491:LEU:HD13	2:J:499:THR:HG22	1.87	0.56
1:K:154:ARG:HH21	1:K:182:LEU:HD22	1.71	0.56
1:K:519:THR:HG22	1:K:520:SER:N	2.19	0.56
2:L:109:THR:O	2:L:110:MET:C	2.49	0.56
2:L:324:PHE:HE2	2:L:341:ILE:HG21	1.70	0.56
2:L:521:ASP:O	2:L:523:GLY:N	2.38	0.56
3:M:36:ILE:O	3:M:37:LEU:C	2.48	0.56
3:N:63:ASN:O	3:N:64:ASN:HB3	2.05	0.56
3:O:25:VAL:HG12	3:O:25:VAL:O	2.05	0.56
3:O:36:ILE:O	3:O:37:LEU:C	2.48	0.56
3:O:162:GLU:HG3	3:O:163:GLY:H	1.69	0.56
3:O:312:ILE:HB	3:O:343:TRP:HB3	1.86	0.56
3:P:245:SER:HB2	3:P:252:THR:HB	1.88	0.56
3:R:337:GLU:O	3:R:338:ASN:HB2	2.05	0.56
4:S:129:LYS:HB3	4:S:133:LYS:HE3	1.88	0.56
4:T:61:ARG:HH11	4:T:61:ARG:HG2	1.70	0.56
4:W:90:LEU:CD2	4:W:90:LEU:H	2.18	0.56
4:X:18:LYS:HG3	4:X:20:TYR:HE1	1.71	0.56
1:A:375:GLY:C	1:A:377:ASN:H	2.14	0.56
1:A:446:THR:HG23	1:A:447:ASN:H	1.70	0.56
1:A:460:TYR:HA	1:A:463:ILE:HD12	1.88	0.56
2:B:252:ASN:O	2:B:253:SER:C	2.49	0.56
2:B:306:ILE:O	2:B:309:ILE:HB	2.06	0.56
1:C:162:VAL:O	1:C:163:HIS:C	2.49	0.56
1:C:267:MET:O	1:C:269:ASP:N	2.39	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:18:LEU:H	2:D:18:LEU:CD2	2.19	0.56
2:D:39:ALA:C	2:D:41:MET:N	2.61	0.56
2:D:113:ILE:HD12	2:D:113:ILE:N	2.21	0.56
2:D:131:LYS:O	2:D:132:ASP:O	2.24	0.56
2:D:253:SER:O	2:D:254:ALA:C	2.48	0.56
1:E:378:ILE:O	1:E:379:ARG:C	2.49	0.56
1:E:406:LEU:O	1:E:407:ALA:C	2.49	0.56
1:E:478:TRP:CH2	1:E:532:LYS:NZ	2.73	0.56
1:E:519:THR:HB	1:E:521:VAL:HG12	1.87	0.56
2:F:306:ILE:O	2:F:309:ILE:HB	2.06	0.56
2:F:461:ASN:HB3	2:F:465:LEU:HD11	1.88	0.56
2:F:464:GLU:HG3	2:F:465:LEU:HD12	1.88	0.56
1:G:115:THR:HG22	1:G:116:GLN:N	2.17	0.56
1:G:153:LEU:N	1:G:153:LEU:HD23	2.20	0.56
1:G:389:LEU:CD2	1:G:425:VAL:HG23	2.36	0.56
2:H:39:ALA:O	2:H:41:MET:N	2.38	0.56
2:H:45:LYS:HG2	2:H:46:ASP:H	1.70	0.56
2:H:502:LEU:O	2:H:503:VAL:C	2.48	0.56
1:I:344:GLN:HE21	1:I:374:ASN:ND2	2.04	0.56
1:I:378:ILE:O	1:I:379:ARG:C	2.49	0.56
1:I:476:ALA:O	1:I:477:ALA:C	2.48	0.56
2:J:480:VAL:O	2:J:481:GLN:C	2.46	0.56
1:K:113:HIS:CD2	1:K:115:THR:H	2.24	0.56
1:K:340:HIS:O	1:K:343:VAL:HG22	2.06	0.56
1:K:406:LEU:O	1:K:407:ALA:C	2.49	0.56
2:L:31:LYS:CE	2:L:64:GLU:HG2	2.35	0.56
3:M:88:VAL:O	3:M:89:GLN:C	2.48	0.56
3:M:323:PRO:HB3	3:M:325:PHE:CE2	2.41	0.56
3:N:48:PRO:O	3:N:49:ILE:HD13	2.05	0.56
3:P:36:ILE:O	3:P:37:LEU:C	2.48	0.56
3:R:95:PHE:CB	3:R:141:LYS:HA	2.36	0.56
3:R:125:THR:O	3:R:126:THR:OG1	2.22	0.56
3:R:278:TRP:O	3:R:279:ILE:HG13	2.05	0.56
3:R:325:PHE:CD2	3:R:325:PHE:N	2.72	0.56
4:T:28:ARG:O	4:T:29:LYS:C	2.49	0.56
3:V:34:MET:HB3	3:V:35:PRO:CD	2.35	0.56
3:V:125:THR:CG2	3:V:126:THR:N	2.69	0.56
3:V:337:GLU:O	3:V:338:ASN:HB2	2.05	0.56
4:W:129:LYS:HB3	4:W:133:LYS:HE3	1.88	0.56
1:A:53:LEU:O	1:A:56:MET:HB2	2.05	0.55
1:A:113:HIS:CD2	1:A:115:THR:H	2.23	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:179:THR:HG21	1:A:211:HIS:CE1	2.42	0.55
1:A:353:CYS:O	1:A:356:ASP:N	2.39	0.55
1:A:544:ILE:HG22	1:A:545:LYS:N	2.20	0.55
1:C:192:HIS:O	1:C:193:THR:C	2.48	0.55
1:C:468:SER:O	1:C:469:GLN:CB	2.42	0.55
2:D:134:ASP:HB2	2:D:137:VAL:CG2	2.36	0.55
2:D:161:PHE:HA	2:D:164:THR:OG1	2.05	0.55
2:D:200:LYS:C	2:D:202:GLN:H	2.12	0.55
2:D:403:VAL:O	2:D:404:ASN:C	2.50	0.55
2:D:464:GLU:HG3	2:D:465:LEU:HD12	1.88	0.55
1:E:340:HIS:O	1:E:343:VAL:HG22	2.06	0.55
1:E:463:ILE:HD11	1:E:476:ALA:CB	2.34	0.55
1:E:539:CYS:C	1:E:541:VAL:H	2.13	0.55
1:G:153:LEU:O	1:G:154:ARG:C	2.49	0.55
1:G:168:VAL:O	1:G:168:VAL:HG12	2.05	0.55
1:G:397:LYS:O	1:G:398:ALA:C	2.49	0.55
1:G:558:GLU:O	1:G:559:LEU:C	2.49	0.55
2:H:18:LEU:H	2:H:18:LEU:CD2	2.19	0.55
2:H:92:VAL:HA	2:H:95:CYS:SG	2.46	0.55
2:H:347:SER:CA	2:H:350:ASN:HD22	2.19	0.55
2:H:458:ARG:HD3	2:H:458:ARG:C	2.31	0.55
2:H:461:ASN:HB3	2:H:465:LEU:HD11	1.88	0.55
2:H:491:LEU:CD1	2:H:492:PHE:N	2.66	0.55
1:I:162:VAL:O	1:I:163:HIS:C	2.49	0.55
1:I:192:HIS:O	1:I:193:THR:C	2.48	0.55
1:I:372:LEU:N	1:I:372:LEU:CD1	2.69	0.55
1:I:375:GLY:C	1:I:377:ASN:H	2.14	0.55
2:J:92:VAL:HA	2:J:95:CYS:SG	2.47	0.55
2:J:113:ILE:HD12	2:J:113:ILE:N	2.21	0.55
2:J:188:ALA:HA	2:J:195:ASN:CG	2.31	0.55
2:J:464:GLU:HG3	2:J:465:LEU:HD12	1.88	0.55
1:K:54:LEU:O	1:K:57:HIS:HB3	2.06	0.55
1:K:58:MET:HE1	4:W:15:ARG:O	2.06	0.55
1:K:85:GLY:O	1:K:86:TYR:C	2.49	0.55
1:K:153:LEU:N	1:K:153:LEU:HD23	2.21	0.55
1:K:316:PHE:O	1:K:319:ASN:N	2.35	0.55
1:K:476:ALA:O	1:K:477:ALA:C	2.48	0.55
2:L:18:LEU:H	2:L:18:LEU:CD2	2.19	0.55
2:L:492:PHE:CB	2:L:503:VAL:HG21	2.35	0.55
3:M:25:VAL:HG12	3:M:25:VAL:O	2.05	0.55
3:M:48:PRO:O	3:M:49:ILE:HD13	2.05	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:337:GLU:O	3:N:338:ASN:HB2	2.05	0.55
3:O:95:PHE:CB	3:O:141:LYS:HA	2.36	0.55
3:P:25:VAL:HG12	3:P:25:VAL:O	2.05	0.55
3:P:63:ASN:O	3:P:64:ASN:HB3	2.05	0.55
3:P:106:ASN:HB3	3:P:109:ILE:CG1	2.37	0.55
3:P:131:LEU:O	3:P:134:PHE:N	2.34	0.55
4:T:83:LEU:O	4:T:84:ILE:C	2.47	0.55
4:U:53:ARG:O	4:U:54:ASP:HB3	2.07	0.55
4:W:33:ARG:CG	4:W:34:GLU:H	2.19	0.55
1:A:51:ALA:O	1:A:54:LEU:N	2.40	0.55
1:A:126:LEU:HD23	1:A:126:LEU:C	2.30	0.55
1:A:191:LEU:O	1:A:195:VAL:HG23	2.06	0.55
2:B:458:ARG:HD3	2:B:458:ARG:C	2.31	0.55
2:B:569:THR:CG2	2:B:570:LEU:N	2.68	0.55
2:B:570:LEU:HD11	3:M:75:ALA:H	1.69	0.55
1:C:460:TYR:HA	1:C:463:ILE:HD12	1.88	0.55
1:C:478:TRP:CH2	1:C:532:LYS:NZ	2.73	0.55
1:C:533:LEU:HB3	1:C:537:PHE:CE1	2.41	0.55
2:D:325:PHE:CE2	2:D:357:GLU:HG3	2.41	0.55
2:D:357:GLU:O	2:D:358:LEU:C	2.49	0.55
2:D:378:GLY:O	2:D:379:ARG:C	2.49	0.55
2:D:407:VAL:O	2:D:408:GLN:C	2.48	0.55
2:D:491:LEU:HD13	2:D:499:THR:HG22	1.87	0.55
1:E:153:LEU:HD23	1:E:153:LEU:N	2.20	0.55
1:E:312:ILE:O	1:E:315:ARG:HB3	2.06	0.55
1:E:350:ILE:HD13	1:E:368:LEU:CD2	2.36	0.55
1:E:411:TYR:HD1	1:E:411:TYR:H	1.52	0.55
2:F:31:LYS:O	2:F:32:GLU:C	2.50	0.55
2:F:569:THR:O	2:F:572:SER:CB	2.53	0.55
1:G:113:HIS:CD2	1:G:115:THR:H	2.23	0.55
1:G:344:GLN:HE21	1:G:374:ASN:ND2	2.04	0.55
1:G:508:ILE:HD12	1:G:508:ILE:N	2.20	0.55
2:H:131:LYS:O	2:H:132:ASP:O	2.24	0.55
2:H:491:LEU:HD13	2:H:499:THR:HG21	1.88	0.55
1:I:153:LEU:O	1:I:154:ARG:C	2.49	0.55
2:J:67:LYS:O	2:J:68:LEU:C	2.47	0.55
2:J:75:ASN:ND2	3:R:19:ARG:NH2	2.54	0.55
1:K:179:THR:HG21	1:K:211:HIS:CE1	2.42	0.55
2:L:92:VAL:HA	2:L:95:CYS:SG	2.46	0.55
2:L:403:VAL:O	2:L:404:ASN:C	2.50	0.55
2:L:452:VAL:O	2:L:453:GLY:C	2.49	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:36:ILE:O	3:N:37:LEU:C	2.48	0.55
3:N:56:ARG:N	3:N:56:ARG:CD	2.69	0.55
3:N:162:GLU:HG3	3:N:163:GLY:H	1.69	0.55
3:N:245:SER:HB2	3:N:252:THR:HB	1.88	0.55
3:O:88:VAL:O	3:O:89:GLN:C	2.48	0.55
3:O:106:ASN:HB3	3:O:109:ILE:CG1	2.37	0.55
3:O:323:PRO:HB3	3:O:325:PHE:CE2	2.41	0.55
3:O:325:PHE:N	3:O:325:PHE:CD2	2.72	0.55
3:P:56:ARG:N	3:P:56:ARG:CD	2.69	0.55
3:P:88:VAL:O	3:P:89:GLN:C	2.48	0.55
3:P:106:ASN:O	3:P:107:PHE:C	2.48	0.55
4:Q:129:LYS:HB3	4:Q:133:LYS:HE3	1.88	0.55
3:R:36:ILE:O	3:R:37:LEU:C	2.48	0.55
3:R:314:ILE:HB	3:R:341:ILE:CG2	2.29	0.55
3:V:173:LEU:C	3:V:173:LEU:CD2	2.76	0.55
3:V:323:PRO:HB3	3:V:325:PHE:CE2	2.41	0.55
1:A:54:LEU:O	1:A:57:HIS:HB3	2.06	0.55
1:A:312:ILE:O	1:A:315:ARG:HB3	2.06	0.55
1:A:340:HIS:O	1:A:343:VAL:HG22	2.06	0.55
1:A:524:GLY:O	1:A:525:TYR:C	2.49	0.55
2:B:92:VAL:HA	2:B:95:CYS:SG	2.47	0.55
2:B:109:THR:O	2:B:110:MET:C	2.49	0.55
2:B:131:LYS:O	2:B:132:ASP:O	2.24	0.55
2:B:161:PHE:HA	2:B:164:THR:OG1	2.05	0.55
1:C:53:LEU:O	1:C:56:MET:HB2	2.05	0.55
1:C:243:PRO:O	1:C:244:PHE:C	2.50	0.55
1:C:344:GLN:HE21	1:C:374:ASN:HD22	1.53	0.55
1:C:558:GLU:O	1:C:559:LEU:C	2.49	0.55
2:D:92:VAL:HA	2:D:95:CYS:SG	2.47	0.55
2:D:452:VAL:O	2:D:453:GLY:C	2.49	0.55
2:D:458:ARG:HD3	2:D:458:ARG:C	2.31	0.55
2:D:488:ILE:O	2:D:489:VAL:C	2.50	0.55
1:E:176:LEU:HB3	1:E:177:PRO:HD3	1.89	0.55
2:F:31:LYS:CE	2:F:64:GLU:HG2	2.35	0.55
2:F:113:ILE:HD12	2:F:113:ILE:N	2.22	0.55
2:F:175:MET:HE3	3:O:124:GLN:HB3	1.86	0.55
2:F:325:PHE:CE2	2:F:357:GLU:HG3	2.41	0.55
2:F:387:SER:CA	2:F:390:ARG:HD2	2.25	0.55
1:G:103:MET:HA	1:G:103:MET:CE	2.34	0.55
1:G:372:LEU:N	1:G:372:LEU:CD1	2.69	0.55
1:G:524:GLY:O	1:G:526:ALA:N	2.38	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:75:ASN:ND2	3:P:19:ARG:NH2	2.54	0.55
2:H:252:ASN:C	2:H:255:VAL:HG22	2.32	0.55
1:I:7:LEU:C	1:I:7:LEU:HD23	2.31	0.55
1:I:34:ILE:O	1:I:37:SER:HB3	2.07	0.55
1:I:243:PRO:O	1:I:244:PHE:C	2.50	0.55
1:I:585:PRO:C	1:I:586:VAL:HG23	2.32	0.55
2:J:28:GLU:HA	2:J:28:GLU:OE2	2.07	0.55
2:J:129:CYS:O	2:J:132:ASP:HB2	2.06	0.55
2:J:316:ILE:HB	2:J:317:LEU:HD13	1.87	0.55
2:J:414:ILE:O	2:J:417:ILE:HB	2.07	0.55
1:K:524:GLY:O	1:K:525:TYR:C	2.49	0.55
1:K:585:PRO:C	1:K:586:VAL:HG23	2.32	0.55
1:K:589:LYS:HG2	1:K:590:VAL:N	2.21	0.55
2:L:28:GLU:OE2	2:L:28:GLU:HA	2.07	0.55
2:L:161:PHE:HA	2:L:164:THR:OG1	2.05	0.55
2:L:253:SER:O	2:L:254:ALA:C	2.48	0.55
2:L:388:ALA:O	2:L:389:GLU:C	2.50	0.55
2:L:464:GLU:O	2:L:465:LEU:C	2.47	0.55
3:N:25:VAL:O	3:N:25:VAL:HG12	2.05	0.55
3:O:179:VAL:H	3:O:415:ASN:CB	2.20	0.55
3:P:95:PHE:CB	3:P:141:LYS:HA	2.36	0.55
3:P:212:LEU:HD12	3:P:213:GLY:N	2.21	0.55
3:P:267:TYR:CD2	3:P:269:LEU:HD21	2.41	0.55
4:Q:16:LEU:CD1	4:Q:111:TYR:CZ	2.89	0.55
4:Q:61:ARG:HH11	4:Q:61:ARG:HG2	1.70	0.55
3:R:11:LEU:H	3:R:11:LEU:CD1	1.98	0.55
4:T:53:ARG:O	4:T:54:ASP:HB3	2.07	0.55
4:T:90:LEU:CD2	4:T:90:LEU:H	2.18	0.55
1:A:558:GLU:O	1:A:559:LEU:C	2.49	0.55
2:B:31:LYS:O	2:B:32:GLU:C	2.50	0.55
2:B:376:ALA:O	2:B:377:ILE:C	2.50	0.55
1:C:85:GLY:O	1:C:86:TYR:C	2.49	0.55
1:C:87:LEU:HA	1:C:90:MET:HE3	1.88	0.55
1:C:344:GLN:HE21	1:C:374:ASN:ND2	2.04	0.55
2:D:376:ALA:O	2:D:377:ILE:C	2.50	0.55
1:E:544:ILE:HG22	1:E:545:LYS:N	2.20	0.55
2:F:75:ASN:ND2	3:O:19:ARG:NH2	2.54	0.55
1:G:58:MET:HE1	4:Q:15:ARG:O	2.06	0.55
1:G:179:THR:HG21	1:G:211:HIS:CE1	2.41	0.55
1:G:585:PRO:C	1:G:586:VAL:HG23	2.32	0.55
2:H:134:ASP:HB2	2:H:137:VAL:CG2	2.36	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:188:ALA:HA	2:H:195:ASN:CG	2.31	0.55
1:I:120:GLY:O	1:I:121:LEU:C	2.49	0.55
1:I:350:ILE:HD13	1:I:368:LEU:CD2	2.36	0.55
2:J:376:ALA:O	2:J:377:ILE:C	2.50	0.55
1:K:120:GLY:O	1:K:121:LEU:C	2.49	0.55
1:K:350:ILE:HD13	1:K:368:LEU:CD2	2.36	0.55
1:K:473:VAL:CG2	1:K:474:GLN:N	2.67	0.55
1:K:540:THR:C	1:K:542:ASN:N	2.65	0.55
2:L:113:ILE:HD12	2:L:113:ILE:N	2.21	0.55
3:M:267:TYR:CD2	3:M:269:LEU:HD21	2.41	0.55
3:M:386:THR:O	3:M:387:THR:C	2.47	0.55
3:M:408:TRP:N	3:M:408:TRP:CD1	2.74	0.55
3:N:267:TYR:CD2	3:N:269:LEU:HD21	2.42	0.55
3:N:390:ILE:HG22	3:N:391:GLN:H	1.70	0.55
3:P:185:ALA:C	3:P:187:GLY:N	2.57	0.55
4:U:99:CYS:SG	4:U:100:GLU:N	2.77	0.55
3:V:56:ARG:N	3:V:56:ARG:CD	2.70	0.55
3:V:212:LEU:HD12	3:V:213:GLY:N	2.21	0.55
4:W:131:VAL:O	4:W:132:LEU:C	2.47	0.55
4:X:33:ARG:CG	4:X:34:GLU:H	2.19	0.55
1:A:66:GLY:O	1:A:67:GLN:C	2.48	0.55
1:A:73:LEU:O	1:A:74:ILE:C	2.48	0.55
1:A:350:ILE:HD13	1:A:368:LEU:CD2	2.36	0.55
1:A:350:ILE:HG21	1:A:368:LEU:HD22	1.88	0.55
1:A:491:GLN:CB	1:G:276:THR:HG22	2.36	0.55
2:B:113:ILE:HD12	2:B:113:ILE:N	2.21	0.55
2:B:129:CYS:O	2:B:132:ASP:HB2	2.06	0.55
2:B:378:GLY:O	2:B:379:ARG:C	2.49	0.55
2:B:488:ILE:O	2:B:489:VAL:C	2.50	0.55
1:C:312:ILE:O	1:C:315:ARG:HB3	2.06	0.55
1:C:375:GLY:C	1:C:377:ASN:H	2.14	0.55
1:C:445:ILE:CD1	1:C:455:THR:HG21	2.36	0.55
2:D:537:ALA:O	2:D:540:VAL:HB	2.07	0.55
1:E:425:VAL:O	1:E:426:LEU:C	2.49	0.55
2:F:188:ALA:HA	2:F:195:ASN:CG	2.31	0.55
2:F:347:SER:H	2:F:350:ASN:HB2	1.72	0.55
1:G:7:LEU:C	1:G:7:LEU:HD23	2.31	0.55
1:G:312:ILE:O	1:G:315:ARG:HB3	2.06	0.55
1:G:378:ILE:O	1:G:379:ARG:C	2.49	0.55
1:G:406:LEU:O	1:G:407:ALA:C	2.49	0.55
2:H:339:LEU:O	2:H:341:ILE:N	2.40	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:378:GLY:O	2:H:379:ARG:C	2.50	0.55
2:H:488:ILE:O	2:H:489:VAL:C	2.50	0.55
2:H:537:ALA:O	2:H:540:VAL:HB	2.07	0.55
1:I:85:GLY:O	1:I:86:TYR:C	2.49	0.55
1:I:153:LEU:HD23	1:I:153:LEU:N	2.21	0.55
1:I:191:LEU:O	1:I:195:VAL:HG23	2.06	0.55
1:I:429:ALA:O	1:I:430:GLY:C	2.50	0.55
2:J:306:ILE:O	2:J:309:ILE:HB	2.06	0.55
2:J:325:PHE:CE2	2:J:357:GLU:HG3	2.41	0.55
2:J:492:PHE:CB	2:J:503:VAL:HG21	2.35	0.55
1:K:327:VAL:O	1:K:328:ALA:C	2.48	0.55
1:K:353:CYS:O	1:K:356:ASP:N	2.39	0.55
1:K:389:LEU:CD2	1:K:425:VAL:HG23	2.36	0.55
1:K:519:THR:HB	1:K:521:VAL:HG12	1.87	0.55
1:K:573:TYR:O	1:K:574:ASP:C	2.48	0.55
3:M:125:THR:CG2	3:M:126:THR:N	2.69	0.55
3:O:83:PHE:O	3:O:86:LYS:HB2	2.07	0.55
3:O:106:ASN:O	3:O:107:PHE:C	2.48	0.55
3:P:8:VAL:O	3:P:16:LEU:CB	2.54	0.55
3:P:34:MET:HB3	3:P:35:PRO:CD	2.35	0.55
3:R:76:CYS:O	3:R:77:VAL:C	2.50	0.55
3:R:131:LEU:O	3:R:134:PHE:N	2.34	0.55
3:R:179:VAL:H	3:R:415:ASN:CB	2.20	0.55
3:R:185:ALA:C	3:R:187:GLY:N	2.57	0.55
3:R:233:LEU:CD1	3:R:269:LEU:HD22	2.37	0.55
4:T:18:LYS:HG3	4:T:20:TYR:HE1	1.71	0.55
4:U:18:LYS:HG3	4:U:20:TYR:HE1	1.71	0.55
4:U:28:ARG:O	4:U:29:LYS:C	2.49	0.55
4:W:28:ARG:O	4:W:29:LYS:C	2.49	0.55
4:W:53:ARG:O	4:W:54:ASP:HB3	2.07	0.55
4:W:109:LYS:O	4:W:110:ALA:C	2.47	0.55
4:X:90:LEU:CD2	4:X:90:LEU:H	2.18	0.55
1:A:34:ILE:O	1:A:37:SER:HB3	2.07	0.55
2:B:407:VAL:O	2:B:408:GLN:C	2.48	0.55
1:C:75:ALA:O	1:C:76:SER:O	2.25	0.55
1:C:176:LEU:HB3	1:C:177:PRO:HD3	1.89	0.55
1:C:179:THR:HG21	1:C:211:HIS:CE1	2.41	0.55
1:C:350:ILE:HG21	1:C:368:LEU:HD22	1.88	0.55
1:C:372:LEU:N	1:C:372:LEU:CD1	2.69	0.55
1:C:556:ASP:CG	1:C:559:LEU:HG	2.32	0.55
2:D:262:VAL:HG23	2:D:263:LEU:N	2.21	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:344:GLN:HE21	1:E:374:ASN:ND2	2.04	0.55
1:E:350:ILE:HG21	1:E:368:LEU:HD22	1.88	0.55
1:E:389:LEU:CD2	1:E:425:VAL:HG23	2.36	0.55
1:E:460:TYR:HA	1:E:463:ILE:HD12	1.88	0.55
1:E:533:LEU:HB3	1:E:537:PHE:CE1	2.41	0.55
1:E:585:PRO:C	1:E:586:VAL:HG23	2.32	0.55
2:F:252:ASN:O	2:F:253:SER:C	2.49	0.55
2:F:339:LEU:O	2:F:341:ILE:N	2.40	0.55
2:F:452:VAL:O	2:F:453:GLY:C	2.49	0.55
1:G:51:ALA:O	1:G:54:LEU:N	2.40	0.55
1:G:154:ARG:HH21	1:G:182:LEU:HD22	1.71	0.55
1:G:430:GLY:CA	1:G:433:VAL:HG23	2.36	0.55
1:G:529:ALA:O	1:G:530:ILE:C	2.50	0.55
1:G:556:ASP:CG	1:G:559:LEU:HG	2.32	0.55
2:H:414:ILE:O	2:H:417:ILE:HB	2.07	0.55
2:H:505:GLN:O	2:H:506:VAL:C	2.50	0.55
1:I:75:ALA:O	1:I:76:SER:O	2.25	0.55
1:I:445:ILE:CD1	1:I:455:THR:HG21	2.36	0.55
1:I:478:TRP:CH2	1:I:532:LYS:NZ	2.73	0.55
2:J:29:LYS:O	2:J:30:LYS:C	2.50	0.55
2:J:252:ASN:O	2:J:253:SER:C	2.49	0.55
2:L:75:ASN:ND2	3:V:19:ARG:NH2	2.54	0.55
2:L:252:ASN:O	2:L:253:SER:C	2.49	0.55
3:M:106:ASN:O	3:M:107:PHE:C	2.48	0.55
4:S:33:ARG:CG	4:S:34:GLU:H	2.19	0.55
4:S:84:ILE:O	4:S:87:TYR:N	2.40	0.55
4:U:129:LYS:HB3	4:U:133:LYS:HE3	1.88	0.55
3:V:267:TYR:CD2	3:V:269:LEU:HD21	2.42	0.55
4:W:18:LYS:HG3	4:W:20:TYR:HE1	1.71	0.55
4:W:71:ILE:HG22	4:W:72:GLU:H	1.71	0.55
2:B:301:VAL:HB	2:B:302:PRO:CD	2.37	0.55
2:B:339:LEU:O	2:B:341:ILE:N	2.40	0.55
1:C:58:MET:HE1	4:T:15:ARG:O	2.06	0.55
1:C:153:LEU:N	1:C:153:LEU:HD23	2.21	0.55
1:C:153:LEU:O	1:C:154:ARG:C	2.49	0.55
1:C:589:LYS:HG2	1:C:590:VAL:N	2.21	0.55
2:D:91:PHE:O	2:D:94:ASP:N	2.38	0.55
2:D:337:GLU:O	2:D:341:ILE:HD13	2.06	0.55
1:E:87:LEU:HA	1:E:90:MET:HE3	1.88	0.55
1:G:267:MET:O	1:G:270:ILE:HG22	2.07	0.55
1:G:382:MET:HE1	1:G:404:ILE:HG23	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:34:VAL:O	2:H:38:ILE:HD13	2.07	0.55
2:H:325:PHE:CE2	2:H:357:GLU:HG3	2.41	0.55
2:H:563:LEU:O	2:H:564:ILE:C	2.50	0.55
1:I:71:LEU:CA	1:I:74:ILE:HD13	2.29	0.55
1:I:340:HIS:O	1:I:343:VAL:HG22	2.06	0.55
2:J:252:ASN:C	2:J:255:VAL:HG22	2.32	0.55
2:J:537:ALA:O	2:J:540:VAL:HB	2.07	0.55
1:K:160:CYS:O	1:K:161:ALA:C	2.50	0.55
1:K:244:PHE:O	1:K:245:LEU:C	2.47	0.55
1:K:533:LEU:HB3	1:K:537:PHE:CE1	2.41	0.55
2:L:34:VAL:O	2:L:38:ILE:HD13	2.07	0.55
2:L:91:PHE:O	2:L:94:ASP:N	2.38	0.55
2:L:129:CYS:O	2:L:132:ASP:HB2	2.06	0.55
2:L:305:ASN:O	2:L:306:ILE:C	2.48	0.55
2:L:376:ALA:O	2:L:377:ILE:C	2.50	0.55
3:M:83:PHE:O	3:M:86:LYS:HB2	2.07	0.55
3:M:233:LEU:CD1	3:M:269:LEU:HD22	2.37	0.55
3:N:278:TRP:O	3:N:279:ILE:HG13	2.05	0.55
3:P:125:THR:CG2	3:P:126:THR:N	2.69	0.55
3:P:337:GLU:O	3:P:338:ASN:HB2	2.05	0.55
4:Q:83:LEU:O	4:Q:86:ARG:N	2.37	0.55
3:R:125:THR:CG2	3:R:126:THR:N	2.69	0.55
3:V:106:ASN:HB3	3:V:109:ILE:CG1	2.37	0.55
3:V:179:VAL:H	3:V:415:ASN:CB	2.20	0.55
4:X:30:LYS:HZ1	4:X:30:LYS:HA	1.71	0.55
4:X:53:ARG:O	4:X:54:ASP:HB3	2.07	0.55
1:A:243:PRO:O	1:A:244:PHE:C	2.50	0.55
1:A:344:GLN:HE21	1:A:374:ASN:ND2	2.04	0.55
1:A:366:MET:O	1:A:369:SER:OG	2.24	0.55
1:A:406:LEU:O	1:A:407:ALA:C	2.49	0.55
2:B:347:SER:H	2:B:350:ASN:HB2	1.72	0.55
2:B:429:ILE:O	2:B:432:LEU:CB	2.55	0.55
2:B:461:ASN:HB3	2:B:465:LEU:HD11	1.88	0.55
2:B:537:ALA:O	2:B:540:VAL:HB	2.07	0.55
2:D:75:ASN:ND2	3:N:19:ARG:NH2	2.54	0.55
2:D:124:GLU:HB2	2:D:125:PRO:CD	2.36	0.55
2:D:323:VAL:HG23	2:D:324:PHE:N	2.22	0.55
2:D:347:SER:H	2:D:350:ASN:HB2	1.72	0.55
2:D:429:ILE:O	2:D:432:LEU:CB	2.55	0.55
1:E:5:ILE:HB	1:E:52:LYS:HZ3	1.72	0.55
1:E:154:ARG:HH21	1:E:182:LEU:HD22	1.71	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:157:ALA:O	1:E:160:CYS:HB2	2.07	0.55
1:E:179:THR:HG21	1:E:211:HIS:CE1	2.41	0.55
1:E:190:VAL:HG12	1:E:194:SER:OG	2.07	0.55
1:E:274:VAL:HG11	1:E:292:THR:CG2	2.32	0.55
1:E:445:ILE:CD1	1:E:455:THR:HG21	2.36	0.55
2:F:131:LYS:O	2:F:132:ASP:O	2.24	0.55
2:F:403:VAL:O	2:F:404:ASN:C	2.50	0.55
2:F:414:ILE:O	2:F:417:ILE:HB	2.07	0.55
2:F:488:ILE:O	2:F:489:VAL:C	2.50	0.55
1:G:34:ILE:O	1:G:37:SER:HB3	2.07	0.55
1:G:176:LEU:HB3	1:G:177:PRO:HD3	1.89	0.55
1:G:504:GLU:O	1:G:508:ILE:HD13	2.07	0.55
1:G:533:LEU:HB3	1:G:537:PHE:CE1	2.41	0.55
1:G:589:LYS:HG2	1:G:590:VAL:N	2.21	0.55
2:H:91:PHE:O	2:H:94:ASP:N	2.38	0.55
2:H:301:VAL:HB	2:H:302:PRO:CD	2.37	0.55
2:H:306:ILE:O	2:H:309:ILE:HB	2.06	0.55
2:H:388:ALA:O	2:H:389:GLU:C	2.50	0.55
2:H:524:TYR:O	2:H:525:ILE:C	2.50	0.55
1:I:113:HIS:CD2	1:I:115:THR:H	2.23	0.55
1:I:430:GLY:CA	1:I:433:VAL:HG23	2.37	0.55
2:J:131:LYS:O	2:J:132:ASP:O	2.24	0.55
2:J:177:VAL:O	2:J:181:VAL:HG23	2.06	0.55
2:J:378:GLY:O	2:J:379:ARG:C	2.50	0.55
2:J:524:TYR:O	2:J:525:ILE:C	2.50	0.55
1:K:243:PRO:O	1:K:244:PHE:C	2.50	0.55
1:K:250:LEU:HA	1:K:253:LEU:CD1	2.35	0.55
1:K:430:GLY:C	1:K:432:TYR:N	2.64	0.55
1:K:504:GLU:O	1:K:508:ILE:HD13	2.07	0.55
2:L:131:LYS:O	2:L:132:ASP:O	2.24	0.55
2:L:378:GLY:O	2:L:379:ARG:C	2.49	0.55
2:L:510:ALA:CB	2:L:519:LEU:HD11	2.34	0.55
2:L:537:ALA:O	2:L:540:VAL:HB	2.07	0.55
3:M:179:VAL:H	3:M:415:ASN:CB	2.20	0.55
3:N:34:MET:HB3	3:N:35:PRO:CD	2.35	0.55
3:N:95:PHE:CB	3:N:141:LYS:HA	2.36	0.55
3:O:62:HIS:NE2	3:O:98:LEU:HD23	2.22	0.55
3:O:125:THR:O	3:O:126:THR:OG1	2.22	0.55
3:O:310:VAL:HG22	3:O:311:GLU:N	2.21	0.55
4:Q:53:ARG:O	4:Q:54:ASP:HB3	2.07	0.55
3:R:106:ASN:HB3	3:R:109:ILE:CG1	2.37	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:R:212:LEU:HD12	3:R:213:GLY:N	2.22	0.55
3:R:409:VAL:CG1	3:R:410:ARG:N	2.67	0.55
4:U:84:ILE:O	4:U:87:TYR:N	2.40	0.55
4:U:90:LEU:H	4:U:90:LEU:CD2	2.18	0.55
1:A:154:ARG:HH21	1:A:182:LEU:HD22	1.71	0.55
1:A:267:MET:O	1:A:270:ILE:HG22	2.07	0.55
2:B:305:ASN:O	2:B:306:ILE:C	2.48	0.55
2:B:519:LEU:O	2:B:520:ARG:C	2.50	0.55
1:C:51:ALA:O	1:C:54:LEU:N	2.40	0.55
2:D:34:VAL:O	2:D:38:ILE:HD13	2.07	0.55
2:D:339:LEU:O	2:D:341:ILE:N	2.40	0.55
1:E:51:ALA:O	1:E:54:LEU:N	2.40	0.55
1:E:267:MET:O	1:E:269:ASP:N	2.39	0.55
1:E:470:GLN:HB2	1:E:471:PRO:CD	2.34	0.55
1:E:589:LYS:HG2	1:E:590:VAL:N	2.21	0.55
2:F:429:ILE:O	2:F:432:LEU:CB	2.55	0.55
1:G:190:VAL:HG12	1:G:194:SER:OG	2.07	0.55
1:G:340:HIS:O	1:G:343:VAL:HG22	2.06	0.55
1:G:460:TYR:HA	1:G:463:ILE:HD12	1.88	0.55
2:H:178:ALA:O	2:H:179:ASN:C	2.50	0.55
2:H:317:LEU:HD22	2:H:317:LEU:N	2.13	0.55
2:H:403:VAL:O	2:H:404:ASN:C	2.50	0.55
2:H:449:ILE:HG22	2:H:450:TRP:N	2.22	0.55
1:I:589:LYS:HG2	1:I:590:VAL:N	2.21	0.55
2:J:31:LYS:O	2:J:32:GLU:C	2.50	0.55
2:J:262:VAL:HG23	2:J:263:LEU:N	2.21	0.55
2:J:347:SER:CA	2:J:350:ASN:HD22	2.19	0.55
2:J:403:VAL:O	2:J:404:ASN:C	2.49	0.55
1:K:422:ILE:O	1:K:423:MET:C	2.50	0.55
1:K:556:ASP:CG	1:K:559:LEU:HG	2.32	0.55
2:L:323:VAL:HG23	2:L:324:PHE:N	2.22	0.55
3:M:56:ARG:HG3	3:M:56:ARG:NH1	2.21	0.55
3:M:76:CYS:HB2	3:M:79:LEU:HD12	1.89	0.55
3:N:62:HIS:NE2	3:N:98:LEU:HD23	2.22	0.55
3:N:91:PHE:O	3:N:94:TYR:N	2.40	0.55
3:N:408:TRP:N	3:N:408:TRP:CD1	2.75	0.55
3:O:212:LEU:HD12	3:O:213:GLY:N	2.22	0.55
3:O:233:LEU:CD1	3:O:269:LEU:HD22	2.37	0.55
3:O:267:TYR:CD2	3:O:269:LEU:HD21	2.42	0.55
3:P:310:VAL:HG22	3:P:311:GLU:N	2.21	0.55
4:Q:33:ARG:CG	4:Q:34:GLU:H	2.19	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:R:56:ARG:HG3	3:R:56:ARG:NH1	2.21	0.55
4:S:28:ARG:O	4:S:29:LYS:C	2.49	0.55
4:U:33:ARG:CG	4:U:34:GLU:H	2.19	0.55
3:V:310:VAL:HG22	3:V:311:GLU:N	2.21	0.55
3:V:408:TRP:N	3:V:408:TRP:CD1	2.75	0.55
4:X:28:ARG:O	4:X:29:LYS:C	2.49	0.55
4:X:84:ILE:O	4:X:87:TYR:N	2.40	0.55
1:A:316:PHE:O	1:A:319:ASN:N	2.35	0.55
2:B:452:VAL:O	2:B:453:GLY:C	2.49	0.55
1:C:267:MET:O	1:C:270:ILE:HG22	2.07	0.55
1:C:430:GLY:CA	1:C:433:VAL:HG23	2.37	0.55
1:C:540:THR:C	1:C:542:ASN:N	2.65	0.55
2:D:109:THR:O	2:D:110:MET:C	2.49	0.55
2:D:347:SER:CA	2:D:350:ASN:HD22	2.19	0.55
2:D:488:ILE:HG22	2:D:503:VAL:HG22	1.87	0.55
1:E:85:GLY:O	1:E:86:TYR:C	2.49	0.55
1:E:254:ARG:HB2	1:E:295:THR:OG1	2.07	0.55
1:E:397:LYS:O	1:E:398:ALA:C	2.49	0.55
1:E:429:ALA:O	1:E:430:GLY:C	2.50	0.55
1:E:504:GLU:O	1:E:508:ILE:HD13	2.07	0.55
2:F:334:VAL:O	2:F:335:LYS:C	2.50	0.55
2:F:470:LEU:C	2:F:472:GLY:N	2.64	0.55
1:G:157:ALA:O	1:G:160:CYS:HB2	2.07	0.55
1:G:350:ILE:HD13	1:G:368:LEU:CD2	2.36	0.55
2:H:429:ILE:O	2:H:432:LEU:CB	2.55	0.55
2:H:447:ALA:O	2:H:448:MET:C	2.50	0.55
1:I:58:MET:HE1	4:X:15:ARG:O	2.06	0.55
1:I:333:LEU:HD12	1:I:368:LEU:HD12	1.89	0.55
2:J:333:TYR:HD1	2:J:334:VAL:N	2.05	0.55
2:J:388:ALA:O	2:J:389:GLU:C	2.50	0.55
2:J:458:ARG:HD3	2:J:458:ARG:C	2.31	0.55
2:J:505:GLN:O	2:J:506:VAL:C	2.50	0.55
1:K:267:MET:O	1:K:270:ILE:HG22	2.07	0.55
1:K:350:ILE:HG21	1:K:368:LEU:HD22	1.88	0.55
1:K:425:VAL:O	1:K:426:LEU:C	2.50	0.55
1:K:430:GLY:CA	1:K:433:VAL:HG23	2.37	0.55
2:L:505:GLN:O	2:L:506:VAL:C	2.50	0.55
3:M:62:HIS:NE2	3:M:98:LEU:HD23	2.22	0.55
3:M:106:ASN:HB3	3:M:109:ILE:CG1	2.37	0.55
3:N:25:VAL:O	3:N:26:ASP:C	2.50	0.55
3:N:76:CYS:O	3:N:77:VAL:C	2.50	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:310:VAL:HG22	3:N:311:GLU:N	2.21	0.55
3:O:125:THR:CG2	3:O:126:THR:N	2.69	0.55
4:S:18:LYS:HG3	4:S:20:TYR:HE1	1.71	0.55
3:V:25:VAL:O	3:V:26:ASP:C	2.50	0.55
3:V:91:PHE:O	3:V:94:TYR:N	2.40	0.55
4:W:16:LEU:CD1	4:W:111:TYR:CZ	2.89	0.55
1:A:58:MET:HE1	4:S:15:ARG:O	2.06	0.54
1:A:103:MET:O	1:A:104:THR:C	2.50	0.54
1:A:429:ALA:O	1:A:430:GLY:C	2.50	0.54
2:B:75:ASN:ND2	3:M:19:ARG:NH2	2.54	0.54
2:B:388:ALA:O	2:B:389:GLU:C	2.50	0.54
2:B:488:ILE:HG22	2:B:503:VAL:HG22	1.87	0.54
2:B:574:TYR:O	2:B:575:HIS:HB2	2.08	0.54
1:C:66:GLY:O	1:C:67:GLN:C	2.48	0.54
1:C:190:VAL:HG12	1:C:194:SER:OG	2.07	0.54
1:C:378:ILE:O	1:C:379:ARG:C	2.49	0.54
1:E:58:MET:HE1	4:U:15:ARG:O	2.06	0.54
1:E:243:PRO:O	1:E:244:PHE:C	2.50	0.54
1:E:353:CYS:O	1:E:356:ASP:N	2.39	0.54
2:F:16:PHE:HZ	3:M:416:GLY:CA	2.20	0.54
2:F:537:ALA:O	2:F:540:VAL:HB	2.07	0.54
1:G:75:ALA:O	1:G:76:SER:O	2.25	0.54
1:G:363:ARG:O	1:G:366:MET:N	2.41	0.54
1:G:429:ALA:O	1:G:430:GLY:C	2.50	0.54
1:G:467:TYR:OH	1:G:511:SER:HB2	2.07	0.54
1:G:552:GLY:O	1:G:560:GLN:HG3	2.08	0.54
2:H:113:ILE:HD12	2:H:113:ILE:N	2.21	0.54
2:H:519:LEU:O	2:H:520:ARG:C	2.50	0.54
2:H:582:VAL:O	2:H:584:GLY:N	2.40	0.54
1:I:274:VAL:HG11	1:I:292:THR:CG2	2.32	0.54
1:I:460:TYR:HA	1:I:463:ILE:HD12	1.88	0.54
2:J:339:LEU:O	2:J:341:ILE:N	2.40	0.54
2:J:449:ILE:HG22	2:J:450:TRP:N	2.22	0.54
1:K:7:LEU:C	1:K:7:LEU:HD23	2.31	0.54
1:K:51:ALA:O	1:K:54:LEU:N	2.40	0.54
1:K:333:LEU:HD12	1:K:368:LEU:HD12	1.89	0.54
1:K:363:ARG:O	1:K:366:MET:N	2.41	0.54
1:K:382:MET:HE1	1:K:404:ILE:HG23	1.89	0.54
1:K:429:ALA:O	1:K:430:GLY:C	2.50	0.54
1:K:552:GLY:O	1:K:560:GLN:HG3	2.07	0.54
2:L:178:ALA:O	2:L:179:ASN:C	2.50	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:582:VAL:O	2:L:584:GLY:N	2.40	0.54
3:M:25:VAL:O	3:M:26:ASP:C	2.50	0.54
3:M:56:ARG:N	3:M:56:ARG:CD	2.70	0.54
3:M:397:ILE:HD13	3:M:405:ALA:HB3	1.89	0.54
3:N:76:CYS:HB2	3:N:79:LEU:HD12	1.89	0.54
3:N:106:ASN:HB3	3:N:109:ILE:CG1	2.37	0.54
3:N:416:GLY:C	3:N:418:TYR:N	2.65	0.54
3:O:76:CYS:HB2	3:O:79:LEU:HD12	1.89	0.54
3:O:408:TRP:CD1	3:O:408:TRP:N	2.74	0.54
3:P:76:CYS:HB2	3:P:79:LEU:HD12	1.89	0.54
3:P:397:ILE:HD13	3:P:405:ALA:HB3	1.89	0.54
3:R:91:PHE:O	3:R:94:TYR:N	2.40	0.54
4:U:86:ARG:O	4:U:89:GLU:CB	2.56	0.54
3:V:62:HIS:NE2	3:V:98:LEU:HD23	2.22	0.54
4:W:84:ILE:O	4:W:87:TYR:N	2.40	0.54
1:A:160:CYS:O	1:A:161:ALA:C	2.50	0.54
1:A:467:TYR:OH	1:A:511:SER:HB2	2.08	0.54
2:B:28:GLU:HA	2:B:28:GLU:OE2	2.07	0.54
2:B:333:TYR:CD2	3:M:48:PRO:HD3	2.42	0.54
1:C:363:ARG:O	1:C:366:MET:N	2.40	0.54
2:D:183:ALA:O	2:D:187:ILE:HG13	2.08	0.54
2:D:301:VAL:HB	2:D:302:PRO:CD	2.37	0.54
2:D:333:TYR:CD2	3:N:48:PRO:HD3	2.42	0.54
2:D:333:TYR:HD1	2:D:334:VAL:N	2.05	0.54
1:E:467:TYR:OH	1:E:511:SER:HB2	2.08	0.54
2:F:92:VAL:HA	2:F:95:CYS:SG	2.47	0.54
2:F:252:ASN:C	2:F:255:VAL:HG22	2.32	0.54
1:G:394:PRO:O	1:G:395:GLU:C	2.50	0.54
1:I:51:ALA:O	1:I:54:LEU:N	2.40	0.54
1:I:87:LEU:HA	1:I:90:MET:HE3	1.88	0.54
1:I:103:MET:O	1:I:104:THR:C	2.50	0.54
1:I:179:THR:HG21	1:I:211:HIS:CE1	2.42	0.54
1:I:425:VAL:O	1:I:426:LEU:C	2.50	0.54
1:I:552:GLY:O	1:I:560:GLN:HG3	2.07	0.54
2:J:333:TYR:CD2	3:R:48:PRO:HD3	2.42	0.54
2:J:335:LYS:O	2:J:336:LEU:C	2.50	0.54
2:J:429:ILE:O	2:J:432:LEU:CB	2.55	0.54
1:K:176:LEU:HB3	1:K:177:PRO:HD3	1.89	0.54
1:K:344:GLN:HE21	1:K:374:ASN:ND2	2.04	0.54
1:K:479:CYS:O	1:K:483:TYR:N	2.31	0.54
2:L:29:LYS:O	2:L:30:LYS:C	2.50	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:70:TYR:O	2:L:71:LEU:C	2.50	0.54
2:L:128:LYS:O	2:L:130:LEU:N	2.41	0.54
2:L:188:ALA:HA	2:L:195:ASN:CG	2.31	0.54
2:L:306:ILE:O	2:L:309:ILE:HB	2.06	0.54
3:M:184:SER:O	3:M:185:ALA:C	2.51	0.54
3:M:212:LEU:HD12	3:M:213:GLY:N	2.21	0.54
3:N:83:PHE:O	3:N:86:LYS:HB2	2.07	0.54
3:N:212:LEU:HD12	3:N:213:GLY:N	2.22	0.54
3:N:233:LEU:CD1	3:N:269:LEU:HD22	2.37	0.54
3:O:91:PHE:O	3:O:94:TYR:N	2.40	0.54
4:Q:84:ILE:O	4:Q:87:TYR:N	2.40	0.54
4:Q:86:ARG:O	4:Q:89:GLU:CB	2.56	0.54
4:T:33:ARG:O	4:T:34:GLU:C	2.51	0.54
2:B:88:VAL:HG11	2:B:121:TYR:HD2	1.69	0.54
2:B:183:ALA:O	2:B:187:ILE:HG13	2.07	0.54
2:B:334:VAL:O	2:B:335:LYS:C	2.50	0.54
2:B:335:LYS:O	2:B:336:LEU:C	2.50	0.54
2:B:464:GLU:HG3	2:B:465:LEU:HD12	1.88	0.54
1:C:67:GLN:NE2	1:C:93:LEU:HD23	2.17	0.54
1:C:366:MET:SD	1:C:400:CYS:SG	3.06	0.54
1:C:504:GLU:O	1:C:508:ILE:HD13	2.07	0.54
2:D:128:LYS:O	2:D:130:LEU:N	2.41	0.54
2:D:262:VAL:O	2:D:266:PHE:HD1	1.90	0.54
2:D:414:ILE:O	2:D:417:ILE:HB	2.07	0.54
2:D:524:TYR:O	2:D:525:ILE:C	2.50	0.54
2:D:563:LEU:O	2:D:564:ILE:C	2.50	0.54
2:D:582:VAL:O	2:D:584:GLY:N	2.40	0.54
1:E:8:ARG:HD2	3:M:337:GLU:CB	2.37	0.54
1:E:83:ARG:O	1:E:84:ILE:C	2.51	0.54
1:E:372:LEU:HD12	1:E:372:LEU:H	1.68	0.54
1:E:382:MET:HE1	1:E:404:ILE:HG23	1.89	0.54
1:E:430:GLY:CA	1:E:433:VAL:HG23	2.37	0.54
2:F:333:TYR:CD2	3:O:48:PRO:HD3	2.42	0.54
2:F:582:VAL:O	2:F:584:GLY:N	2.40	0.54
2:H:333:TYR:CD2	3:P:48:PRO:HD3	2.42	0.54
2:H:464:GLU:HG3	2:H:465:LEU:HD12	1.88	0.54
2:H:492:PHE:CG	2:H:503:VAL:HG21	2.43	0.54
1:I:66:GLY:O	1:I:67:GLN:C	2.48	0.54
1:I:350:ILE:HG21	1:I:368:LEU:HD22	1.88	0.54
1:I:558:GLU:O	1:I:559:LEU:C	2.49	0.54
2:J:62:ASN:O	2:J:63:LEU:C	2.50	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:177:VAL:O	2:J:178:ALA:C	2.50	0.54
2:J:409:GLU:O	2:J:412:VAL:HB	2.08	0.54
2:J:447:ALA:O	2:J:448:MET:C	2.50	0.54
2:J:461:ASN:HB3	2:J:465:LEU:HD11	1.88	0.54
2:J:491:LEU:HD13	2:J:499:THR:HG21	1.88	0.54
1:K:103:MET:O	1:K:104:THR:C	2.50	0.54
1:K:190:VAL:HG12	1:K:194:SER:OG	2.07	0.54
1:K:316:PHE:O	1:K:317:LEU:C	2.50	0.54
2:L:334:VAL:O	2:L:335:LYS:C	2.50	0.54
2:L:339:LEU:O	2:L:341:ILE:N	2.40	0.54
3:N:179:VAL:H	3:N:415:ASN:CB	2.20	0.54
3:N:325:PHE:CD1	3:N:332:VAL:HB	2.43	0.54
3:O:76:CYS:O	3:O:77:VAL:C	2.50	0.54
3:O:118:MET:HB2	3:O:123:PRO:CA	2.38	0.54
3:P:325:PHE:N	3:P:325:PHE:CD2	2.72	0.54
3:R:88:VAL:O	3:R:89:GLN:C	2.48	0.54
4:S:99:CYS:SG	4:S:100:GLU:N	2.77	0.54
3:V:325:PHE:CD1	3:V:332:VAL:HB	2.43	0.54
4:W:22:ALA:O	4:W:23:THR:OG1	2.22	0.54
1:A:254:ARG:HB2	1:A:295:THR:OG1	2.07	0.54
1:A:430:GLY:CA	1:A:433:VAL:HG23	2.37	0.54
1:A:491:GLN:HB2	1:G:276:THR:HG23	1.90	0.54
2:B:188:ALA:HA	2:B:195:ASN:CG	2.31	0.54
2:B:252:ASN:C	2:B:255:VAL:HG22	2.32	0.54
2:B:262:VAL:HG23	2:B:263:LEU:N	2.21	0.54
2:B:333:TYR:HD1	2:B:334:VAL:N	2.05	0.54
2:B:347:SER:CA	2:B:350:ASN:HD22	2.19	0.54
2:B:403:VAL:O	2:B:404:ASN:C	2.50	0.54
1:C:103:MET:O	1:C:104:THR:C	2.50	0.54
1:C:411:TYR:H	1:C:411:TYR:HD1	1.52	0.54
1:C:449:VAL:HG13	1:C:452:HIS:NE2	2.23	0.54
1:C:585:PRO:C	1:C:586:VAL:HG23	2.32	0.54
2:D:252:ASN:C	2:D:255:VAL:HG22	2.32	0.54
2:D:519:LEU:O	2:D:520:ARG:C	2.50	0.54
1:E:191:LEU:O	1:E:195:VAL:HG23	2.06	0.54
2:F:62:ASN:O	2:F:63:LEU:C	2.50	0.54
2:F:262:VAL:O	2:F:266:PHE:HD1	1.90	0.54
2:F:406:VAL:O	2:F:407:VAL:C	2.50	0.54
2:F:574:TYR:O	2:F:575:HIS:HB2	2.08	0.54
1:G:83:ARG:O	1:G:84:ILE:C	2.51	0.54
1:G:254:ARG:HB2	1:G:295:THR:OG1	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:333:LEU:HD12	1:G:368:LEU:HD12	1.89	0.54
1:G:366:MET:SD	1:G:400:CYS:SG	3.06	0.54
2:H:56:ASN:N	2:H:56:ASN:HD22	2.06	0.54
2:H:177:VAL:O	2:H:178:ALA:C	2.50	0.54
2:H:262:VAL:O	2:H:266:PHE:HD1	1.90	0.54
2:J:492:PHE:CG	2:J:503:VAL:HG21	2.43	0.54
1:K:157:ALA:O	1:K:160:CYS:HB2	2.07	0.54
1:K:366:MET:SD	1:K:400:CYS:SG	3.06	0.54
2:L:252:ASN:C	2:L:255:VAL:HG22	2.32	0.54
2:L:263:LEU:HD13	2:L:284:LEU:HD11	1.90	0.54
2:L:333:TYR:CD2	3:V:48:PRO:HD3	2.42	0.54
3:M:91:PHE:O	3:M:94:TYR:N	2.40	0.54
3:M:276:LEU:N	3:M:418:TYR:OH	2.40	0.54
3:M:325:PHE:CD1	3:M:332:VAL:HB	2.43	0.54
3:N:125:THR:CG2	3:N:126:THR:N	2.69	0.54
3:O:34:MET:HB3	3:O:35:PRO:CD	2.35	0.54
3:O:276:LEU:N	3:O:418:TYR:OH	2.40	0.54
3:P:56:ARG:HG3	3:P:56:ARG:NH1	2.21	0.54
3:P:91:PHE:O	3:P:94:TYR:N	2.40	0.54
4:Q:109:LYS:HA	4:Q:112:PHE:CD1	2.35	0.54
3:R:267:TYR:CD2	3:R:269:LEU:HD21	2.42	0.54
3:R:397:ILE:HD13	3:R:405:ALA:HB3	1.89	0.54
3:V:416:GLY:C	3:V:418:TYR:N	2.65	0.54
1:A:382:MET:HE1	1:A:404:ILE:HG23	1.89	0.54
1:A:504:GLU:O	1:A:508:ILE:HD13	2.07	0.54
2:B:505:GLN:O	2:B:506:VAL:C	2.50	0.54
2:B:524:TYR:O	2:B:525:ILE:C	2.50	0.54
2:B:566:TYR:O	2:B:569:THR:CB	2.47	0.54
1:C:157:ALA:O	1:C:160:CYS:HB2	2.07	0.54
2:D:502:LEU:O	2:D:503:VAL:C	2.48	0.54
1:E:34:ILE:O	1:E:37:SER:HB3	2.07	0.54
1:E:54:LEU:O	1:E:57:HIS:HB3	2.06	0.54
1:E:75:ALA:O	1:E:76:SER:O	2.25	0.54
1:E:449:VAL:HG13	1:E:452:HIS:NE2	2.23	0.54
2:F:109:THR:O	2:F:110:MET:C	2.49	0.54
2:F:183:ALA:O	2:F:187:ILE:HG13	2.07	0.54
2:F:207:LEU:O	2:F:210:ALA:HB3	2.08	0.54
2:F:447:ALA:O	2:F:448:MET:C	2.50	0.54
1:G:162:VAL:O	1:G:163:HIS:C	2.49	0.54
1:G:540:THR:C	1:G:542:ASN:N	2.65	0.54
2:H:28:GLU:OE2	2:H:28:GLU:HA	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:176:VAL:O	2:H:177:VAL:C	2.51	0.54
2:H:191:HIS:HA	2:H:195:ASN:HD22	1.70	0.54
1:I:513:LEU:HD12	1:I:513:LEU:N	2.23	0.54
1:I:556:ASP:CG	1:I:559:LEU:HG	2.32	0.54
2:J:50:LEU:O	2:J:51:PHE:C	2.51	0.54
2:J:105:LEU:HA	2:J:108:ARG:HG2	1.90	0.54
2:J:337:GLU:O	2:J:341:ILE:HD13	2.06	0.54
2:J:347:SER:H	2:J:350:ASN:HB2	1.72	0.54
1:K:13:THR:C	1:K:26:MET:HE1	2.33	0.54
2:L:177:VAL:O	2:L:178:ALA:C	2.50	0.54
2:L:347:SER:H	2:L:350:ASN:HB2	1.72	0.54
2:L:464:GLU:HG3	2:L:465:LEU:HD12	1.88	0.54
2:L:519:LEU:O	2:L:520:ARG:C	2.50	0.54
3:M:34:MET:HB3	3:M:35:PRO:CD	2.35	0.54
3:N:325:PHE:CD2	3:N:325:PHE:N	2.72	0.54
3:O:397:ILE:HD13	3:O:405:ALA:HB3	1.89	0.54
3:P:125:THR:O	3:P:126:THR:OG1	2.22	0.54
3:R:34:MET:HB3	3:R:35:PRO:CD	2.35	0.54
3:R:325:PHE:CD1	3:R:332:VAL:HB	2.43	0.54
4:S:86:ARG:O	4:S:89:GLU:CB	2.56	0.54
4:T:59:TYR:HA	4:T:67:PHE:O	2.08	0.54
4:T:84:ILE:O	4:T:87:TYR:N	2.40	0.54
4:T:117:PHE:C	4:T:117:PHE:CD1	2.85	0.54
4:W:59:TYR:HA	4:W:67:PHE:O	2.08	0.54
1:A:120:GLY:O	1:A:121:LEU:C	2.49	0.54
1:A:157:ALA:O	1:A:160:CYS:HB2	2.07	0.54
1:A:190:VAL:HG12	1:A:194:SER:OG	2.07	0.54
1:A:422:ILE:O	1:A:423:MET:C	2.50	0.54
1:A:442:ILE:CD1	1:A:475:VAL:HG13	2.38	0.54
2:B:29:LYS:O	2:B:30:LYS:C	2.50	0.54
2:B:70:TYR:O	2:B:71:LEU:C	2.50	0.54
2:B:178:ALA:O	2:B:179:ASN:C	2.50	0.54
2:B:257:LEU:O	2:B:258:SER:C	2.51	0.54
2:B:262:VAL:O	2:B:266:PHE:HD1	1.90	0.54
2:B:387:SER:HA	2:B:390:ARG:CD	2.26	0.54
2:B:485:LEU:O	2:B:486:THR:C	2.50	0.54
1:C:316:PHE:O	1:C:317:LEU:C	2.51	0.54
1:C:340:HIS:O	1:C:343:VAL:HG22	2.06	0.54
2:D:388:ALA:O	2:D:389:GLU:C	2.50	0.54
1:E:13:THR:C	1:E:26:MET:HE1	2.33	0.54
1:E:160:CYS:O	1:E:161:ALA:C	2.50	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:162:VAL:O	1:E:163:HIS:C	2.49	0.54
1:E:421:THR:O	1:E:422:ILE:C	2.47	0.54
2:F:34:VAL:O	2:F:38:ILE:HD13	2.07	0.54
2:F:39:ALA:C	2:F:41:MET:N	2.61	0.54
2:F:60:THR:CG2	2:F:61:ASP:H	2.05	0.54
2:F:148:LEU:HA	2:F:151:ILE:HG13	1.90	0.54
2:F:492:PHE:CG	2:F:503:VAL:HG21	2.43	0.54
2:F:519:LEU:O	2:F:520:ARG:C	2.50	0.54
1:G:442:ILE:CD1	1:G:475:VAL:HG13	2.38	0.54
2:H:31:LYS:O	2:H:32:GLU:C	2.50	0.54
2:H:183:ALA:O	2:H:187:ILE:HG13	2.07	0.54
2:H:333:TYR:HD1	2:H:334:VAL:N	2.05	0.54
2:H:347:SER:H	2:H:350:ASN:HB2	1.72	0.54
2:H:376:ALA:O	2:H:377:ILE:C	2.49	0.54
1:I:154:ARG:HH21	1:I:182:LEU:HD22	1.71	0.54
1:I:438:VAL:CB	1:I:439:PRO:HD3	2.28	0.54
2:J:301:VAL:HB	2:J:302:PRO:CD	2.37	0.54
2:J:323:VAL:HG23	2:J:324:PHE:N	2.22	0.54
2:J:519:LEU:O	2:J:520:ARG:C	2.50	0.54
2:J:563:LEU:O	2:J:564:ILE:C	2.50	0.54
2:J:582:VAL:O	2:J:584:GLY:N	2.40	0.54
2:L:357:GLU:O	2:L:358:LEU:C	2.50	0.54
2:L:524:TYR:O	2:L:525:ILE:C	2.50	0.54
3:M:416:GLY:O	3:M:418:TYR:N	2.41	0.54
3:P:233:LEU:CD1	3:P:269:LEU:HD22	2.37	0.54
4:Q:59:TYR:HA	4:Q:67:PHE:O	2.08	0.54
4:T:50:LEU:HB3	4:T:57:VAL:CG2	2.38	0.54
4:U:4:PHE:CD1	4:U:4:PHE:C	2.86	0.54
4:X:86:ARG:O	4:X:89:GLU:CB	2.56	0.54
4:X:109:LYS:HA	4:X:112:PHE:CD1	2.35	0.54
1:A:244:PHE:O	1:A:245:LEU:C	2.47	0.54
1:A:425:VAL:O	1:A:426:LEU:C	2.50	0.54
1:A:449:VAL:HG13	1:A:452:HIS:NE2	2.23	0.54
1:A:470:GLN:HB2	1:A:471:PRO:CD	2.34	0.54
1:A:552:GLY:O	1:A:560:GLN:HG3	2.07	0.54
2:B:105:LEU:HA	2:B:108:ARG:HG2	1.89	0.54
2:B:176:VAL:O	2:B:177:VAL:C	2.51	0.54
2:B:323:VAL:HG23	2:B:324:PHE:N	2.22	0.54
2:B:447:ALA:O	2:B:448:MET:C	2.50	0.54
1:C:71:LEU:HD23	1:C:71:LEU:C	2.33	0.54
1:C:467:TYR:OH	1:C:511:SER:HB2	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:29:LYS:O	2:D:30:LYS:C	2.50	0.54
2:D:263:LEU:HD13	2:D:284:LEU:HD11	1.90	0.54
2:D:302:PRO:O	2:D:305:ASN:N	2.41	0.54
2:F:50:LEU:O	2:F:51:PHE:C	2.51	0.54
2:F:105:LEU:HA	2:F:108:ARG:HG2	1.90	0.54
2:F:357:GLU:O	2:F:358:LEU:C	2.49	0.54
1:G:243:PRO:O	1:G:244:PHE:C	2.50	0.54
1:G:425:VAL:O	1:G:426:LEU:C	2.50	0.54
2:H:387:SER:HA	2:H:390:ARG:CD	2.26	0.54
2:H:409:GLU:O	2:H:412:VAL:HB	2.08	0.54
2:H:569:THR:O	2:H:572:SER:CB	2.53	0.54
1:I:31:CYS:HB3	1:I:56:MET:HE1	1.90	0.54
1:I:71:LEU:HD23	1:I:71:LEU:C	2.33	0.54
1:I:176:LEU:HB3	1:I:177:PRO:HD3	1.89	0.54
1:I:267:MET:O	1:I:270:ILE:HG22	2.07	0.54
1:I:394:PRO:O	1:I:395:GLU:C	2.50	0.54
2:J:485:LEU:O	2:J:486:THR:C	2.50	0.54
1:K:71:LEU:HD23	1:K:71:LEU:C	2.33	0.54
1:K:533:LEU:O	1:K:536:ARG:N	2.40	0.54
2:L:257:LEU:O	2:L:258:SER:C	2.51	0.54
2:L:343:ILE:HG22	2:L:344:ARG:N	2.23	0.54
2:L:563:LEU:O	2:L:564:ILE:C	2.50	0.54
2:L:566:TYR:O	2:L:569:THR:CB	2.47	0.54
3:O:386:THR:O	3:O:387:THR:C	2.47	0.54
3:P:325:PHE:CD1	3:P:332:VAL:HB	2.43	0.54
4:Q:71:ILE:HG22	4:Q:72:GLU:H	1.71	0.54
4:S:53:ARG:O	4:S:54:ASP:HB3	2.07	0.54
4:S:74:GLN:HG2	4:S:74:GLN:O	2.08	0.54
4:U:30:LYS:HZ1	4:U:33:ARG:NH2	2.05	0.54
4:U:117:PHE:C	4:U:117:PHE:CD1	2.85	0.54
1:A:71:LEU:HD23	1:A:71:LEU:C	2.33	0.54
1:A:192:HIS:O	1:A:193:THR:C	2.48	0.54
1:A:394:PRO:O	1:A:395:GLU:C	2.50	0.54
2:B:56:ASN:N	2:B:56:ASN:HD22	2.06	0.54
2:B:492:PHE:CG	2:B:503:VAL:HG21	2.43	0.54
1:C:34:ILE:O	1:C:37:SER:HB3	2.07	0.54
1:C:154:ARG:HH21	1:C:182:LEU:HD22	1.71	0.54
1:C:249:ILE:O	1:C:250:LEU:C	2.51	0.54
2:D:207:LEU:O	2:D:210:ALA:HB3	2.08	0.54
2:D:343:ILE:C	2:D:345:LEU:N	2.59	0.54
2:D:387:SER:CA	2:D:390:ARG:HD2	2.25	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:470:LEU:C	2:D:472:GLY:N	2.64	0.54
1:E:103:MET:O	1:E:104:THR:C	2.50	0.54
1:E:192:HIS:O	1:E:193:THR:C	2.48	0.54
2:F:324:PHE:HE2	2:F:341:ILE:HG21	1.70	0.54
2:F:333:TYR:HD1	2:F:334:VAL:N	2.05	0.54
2:F:493:LEU:HD13	2:F:538:LYS:HA	1.90	0.54
2:F:510:ALA:CB	2:F:519:LEU:HD11	2.34	0.54
1:G:85:GLY:O	1:G:86:TYR:C	2.49	0.54
1:G:103:MET:O	1:G:104:THR:C	2.50	0.54
1:G:160:CYS:O	1:G:161:ALA:C	2.50	0.54
2:H:29:LYS:O	2:H:30:LYS:C	2.50	0.54
2:H:323:VAL:HG23	2:H:324:PHE:N	2.22	0.54
2:H:335:LYS:O	2:H:336:LEU:C	2.50	0.54
2:H:343:ILE:HG22	2:H:344:ARG:N	2.23	0.54
2:H:357:GLU:O	2:H:358:LEU:C	2.49	0.54
2:H:470:LEU:C	2:H:472:GLY:N	2.64	0.54
2:H:493:LEU:HD13	2:H:538:LYS:HA	1.90	0.54
1:I:54:LEU:O	1:I:57:HIS:HB3	2.06	0.54
1:I:160:CYS:O	1:I:161:ALA:C	2.50	0.54
2:J:19:LYS:O	2:J:22:LEU:HB3	2.08	0.54
2:J:148:LEU:HA	2:J:151:ILE:HG13	1.90	0.54
2:J:207:LEU:O	2:J:210:ALA:HB3	2.08	0.54
2:J:216:GLU:HB2	2:J:217:TRP:HE3	1.66	0.54
2:J:491:LEU:CD1	2:J:492:PHE:N	2.66	0.54
2:L:19:LYS:O	2:L:22:LEU:HB3	2.08	0.54
2:L:31:LYS:O	2:L:32:GLU:C	2.50	0.54
2:L:176:VAL:O	2:L:177:VAL:C	2.51	0.54
2:L:183:ALA:O	2:L:187:ILE:HG13	2.07	0.54
2:L:302:PRO:O	2:L:305:ASN:N	2.41	0.54
2:L:347:SER:CA	2:L:350:ASN:HD22	2.19	0.54
2:L:414:ILE:O	2:L:417:ILE:HB	2.07	0.54
2:L:447:ALA:O	2:L:448:MET:C	2.50	0.54
3:N:118:MET:HB2	3:N:123:PRO:CA	2.38	0.54
3:O:277:ILE:N	3:O:418:TYR:OH	2.40	0.54
3:P:62:HIS:NE2	3:P:98:LEU:HD23	2.22	0.54
3:P:273:VAL:O	3:P:274:LYS:C	2.51	0.54
3:P:416:GLY:O	3:P:418:TYR:N	2.41	0.54
4:T:86:ARG:O	4:T:89:GLU:CB	2.56	0.54
3:V:233:LEU:CD1	3:V:269:LEU:HD22	2.37	0.54
3:V:397:ILE:HD13	3:V:405:ALA:HB3	1.89	0.54
4:W:50:LEU:HB3	4:W:57:VAL:CG2	2.38	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:W:86:ARG:O	4:W:89:GLU:CB	2.56	0.54
4:W:117:PHE:C	4:W:117:PHE:CD1	2.85	0.54
1:A:491:GLN:HB2	1:G:276:THR:CG2	2.38	0.54
1:A:556:ASP:CG	1:A:559:LEU:HG	2.32	0.54
1:A:585:PRO:C	1:A:586:VAL:HG23	2.32	0.54
2:B:34:VAL:O	2:B:38:ILE:HD13	2.07	0.54
2:B:211:LEU:HD13	2:B:247:ARG:HD2	1.90	0.54
2:B:502:LEU:O	2:B:503:VAL:C	2.48	0.54
1:C:425:VAL:O	1:C:426:LEU:C	2.50	0.54
1:C:442:ILE:CD1	1:C:475:VAL:HG13	2.38	0.54
1:C:470:GLN:HB2	1:C:471:PRO:CD	2.34	0.54
1:C:513:LEU:HD12	1:C:513:LEU:N	2.23	0.54
2:D:31:LYS:O	2:D:32:GLU:C	2.50	0.54
2:D:334:VAL:O	2:D:335:LYS:C	2.50	0.54
2:D:406:VAL:O	2:D:407:VAL:C	2.50	0.54
1:E:6:ARG:CZ	3:M:336:PRO:HB2	2.38	0.54
1:E:267:MET:O	1:E:270:ILE:HG22	2.07	0.54
1:E:472:LEU:O	1:E:473:VAL:C	2.51	0.54
1:E:552:GLY:O	1:E:560:GLN:HG3	2.07	0.54
1:E:556:ASP:CG	1:E:559:LEU:HG	2.32	0.54
2:F:29:LYS:O	2:F:30:LYS:C	2.50	0.54
2:F:257:LEU:O	2:F:258:SER:C	2.51	0.54
2:F:301:VAL:HB	2:F:302:PRO:CD	2.37	0.54
2:F:302:PRO:O	2:F:305:ASN:N	2.41	0.54
2:F:563:LEU:O	2:F:564:ILE:C	2.50	0.54
1:G:38:PHE:CD1	1:G:69:GLU:OE1	2.61	0.54
1:G:71:LEU:HD23	1:G:71:LEU:C	2.33	0.54
1:G:316:PHE:O	1:G:317:LEU:C	2.51	0.54
1:G:449:VAL:HG13	1:G:452:HIS:NE2	2.23	0.54
2:H:207:LEU:O	2:H:210:ALA:HB3	2.08	0.54
2:H:211:LEU:HD13	2:H:247:ARG:HD2	1.90	0.54
1:I:344:GLN:O	1:I:346:HIS:N	2.41	0.54
1:I:540:THR:O	1:I:542:ASN:N	2.41	0.54
2:J:493:LEU:HD13	2:J:538:LYS:HA	1.90	0.54
1:K:153:LEU:O	1:K:154:ARG:C	2.49	0.54
1:K:254:ARG:HB2	1:K:295:THR:OG1	2.07	0.54
1:K:394:PRO:O	1:K:395:GLU:C	2.50	0.54
1:K:513:LEU:HD12	1:K:513:LEU:N	2.23	0.54
1:K:543:ARG:O	1:K:547:VAL:HG23	2.08	0.54
2:L:301:VAL:HB	2:L:302:PRO:CD	2.37	0.54
2:L:407:VAL:O	2:L:408:GLN:C	2.48	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:429:ILE:O	2:L:432:LEU:CB	2.55	0.54
2:L:574:TYR:O	2:L:575:HIS:HB2	2.07	0.54
3:M:118:MET:HB2	3:M:123:PRO:CA	2.38	0.54
3:M:233:LEU:CD1	3:M:268:ARG:O	2.56	0.54
3:M:273:VAL:O	3:M:274:LYS:C	2.51	0.54
3:O:325:PHE:CD1	3:O:332:VAL:HB	2.43	0.54
3:P:83:PHE:O	3:P:86:LYS:HB2	2.07	0.54
3:P:174:ASP:N	3:P:174:ASP:OD2	2.39	0.54
4:Q:33:ARG:O	4:Q:34:GLU:C	2.51	0.54
4:S:4:PHE:C	4:S:4:PHE:CD1	2.86	0.54
3:V:83:PHE:O	3:V:86:LYS:HB2	2.07	0.54
3:V:273:VAL:O	3:V:274:LYS:C	2.51	0.54
4:W:87:TYR:O	4:W:88:VAL:C	2.51	0.54
4:X:83:LEU:O	4:X:86:ARG:N	2.37	0.54
1:A:344:GLN:O	1:A:346:HIS:N	2.41	0.54
1:A:363:ARG:O	1:A:366:MET:N	2.41	0.54
2:B:302:PRO:O	2:B:305:ASN:N	2.41	0.54
2:B:324:PHE:HE2	2:B:341:ILE:HG21	1.70	0.54
2:B:414:ILE:O	2:B:417:ILE:HB	2.07	0.54
2:B:470:LEU:C	2:B:472:GLY:N	2.64	0.54
1:C:389:LEU:CD1	1:C:400:CYS:HB3	2.38	0.54
1:C:397:LYS:O	1:C:398:ALA:C	2.49	0.54
1:C:422:ILE:O	1:C:423:MET:C	2.50	0.54
1:C:552:GLY:O	1:C:560:GLN:HG3	2.07	0.54
2:D:28:GLU:OE2	2:D:28:GLU:HA	2.07	0.54
2:D:211:LEU:HD13	2:D:247:ARG:HD2	1.90	0.54
2:D:409:GLU:O	2:D:412:VAL:HB	2.08	0.54
2:D:485:LEU:O	2:D:486:THR:C	2.50	0.54
1:E:333:LEU:HD12	1:E:368:LEU:HD12	1.89	0.54
1:E:531:MET:SD	1:E:566:TYR:HB3	2.48	0.54
2:F:128:LYS:O	2:F:130:LEU:N	2.41	0.54
2:F:176:VAL:O	2:F:177:VAL:C	2.51	0.54
2:F:376:ALA:O	2:F:377:ILE:C	2.50	0.54
1:G:513:LEU:HD12	1:G:513:LEU:N	2.23	0.54
2:H:149:HIS:CE1	2:H:187:ILE:HG23	2.43	0.54
2:H:302:PRO:O	2:H:305:ASN:N	2.41	0.54
2:H:406:VAL:O	2:H:407:VAL:C	2.50	0.54
2:H:574:TYR:O	2:H:575:HIS:HB2	2.07	0.54
1:I:83:ARG:O	1:I:84:ILE:C	2.51	0.54
1:I:190:VAL:HG12	1:I:194:SER:OG	2.07	0.54
1:I:467:TYR:OH	1:I:511:SER:HB2	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:504:GLU:O	1:I:508:ILE:HD13	2.07	0.54
2:J:104:ALA:CB	2:J:136:TYR:HD2	2.20	0.54
2:J:109:THR:O	2:J:110:MET:C	2.49	0.54
2:J:178:ALA:O	2:J:179:ASN:C	2.50	0.54
2:J:191:HIS:ND1	2:J:191:HIS:O	2.41	0.54
2:J:463:ASP:O	2:J:464:GLU:C	2.51	0.54
2:J:574:TYR:O	2:J:575:HIS:HB2	2.08	0.54
1:K:75:ALA:O	1:K:76:SER:O	2.25	0.54
1:K:146:LEU:HD23	1:K:146:LEU:C	2.33	0.54
2:L:148:LEU:HA	2:L:151:ILE:HG13	1.90	0.54
2:L:262:VAL:O	2:L:266:PHE:HD1	1.90	0.54
2:L:333:TYR:HD1	2:L:334:VAL:N	2.05	0.54
2:L:409:GLU:O	2:L:412:VAL:HB	2.08	0.54
3:M:76:CYS:O	3:M:77:VAL:C	2.50	0.54
3:M:310:VAL:HG22	3:M:311:GLU:N	2.21	0.54
3:O:184:SER:O	3:O:185:ALA:C	2.51	0.54
3:P:233:LEU:CD1	3:P:268:ARG:O	2.56	0.54
4:Q:28:ARG:O	4:Q:29:LYS:C	2.49	0.54
3:R:83:PHE:O	3:R:86:LYS:HB2	2.07	0.54
3:R:174:ASP:N	3:R:174:ASP:OD2	2.39	0.54
4:S:87:TYR:O	4:S:88:VAL:C	2.51	0.54
3:V:76:CYS:O	3:V:77:VAL:C	2.50	0.54
3:V:76:CYS:HB2	3:V:79:LEU:HD12	1.89	0.54
3:V:233:LEU:CD1	3:V:268:ARG:O	2.56	0.54
4:X:50:LEU:HB3	4:X:57:VAL:CG2	2.38	0.54
1:A:75:ALA:O	1:A:76:SER:O	2.25	0.53
1:A:176:LEU:HB3	1:A:177:PRO:HD3	1.89	0.53
1:A:540:THR:C	1:A:542:ASN:N	2.65	0.53
2:B:177:VAL:O	2:B:178:ALA:C	2.50	0.53
2:B:406:VAL:O	2:B:407:VAL:C	2.50	0.53
1:C:333:LEU:HD12	1:C:368:LEU:HD12	1.89	0.53
1:C:394:PRO:O	1:C:395:GLU:C	2.50	0.53
2:D:211:LEU:CD2	2:D:219:GLN:HA	2.39	0.53
2:D:335:LYS:O	2:D:336:LEU:C	2.50	0.53
2:D:335:LYS:HB3	2:D:369:PHE:CE1	2.43	0.53
2:F:505:GLN:O	2:F:506:VAL:C	2.50	0.53
2:F:524:TYR:O	2:F:525:ILE:C	2.50	0.53
1:G:36:SER:HA	1:G:39:ARG:CG	2.36	0.53
1:G:87:LEU:HA	1:G:90:MET:HE3	1.88	0.53
1:G:362:LYS:O	1:G:363:ARG:C	2.52	0.53
2:H:263:LEU:HD13	2:H:284:LEU:HD11	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:324:PHE:HE2	2:H:341:ILE:HG21	1.70	0.53
1:I:10:LEU:O	1:I:13:THR:N	2.40	0.53
1:I:74:ILE:HG13	1:I:86:TYR:CE1	2.44	0.53
1:I:134:MET:O	1:I:137:ASP:N	2.38	0.53
1:I:157:ALA:O	1:I:160:CYS:HB2	2.07	0.53
1:I:363:ARG:O	1:I:366:MET:N	2.41	0.53
1:I:366:MET:SD	1:I:400:CYS:SG	3.06	0.53
1:I:531:MET:SD	1:I:566:TYR:HB3	2.48	0.53
2:J:257:LEU:O	2:J:258:SER:C	2.51	0.53
2:J:343:ILE:HG22	2:J:344:ARG:N	2.23	0.53
2:J:357:GLU:O	2:J:358:LEU:C	2.49	0.53
1:K:34:ILE:O	1:K:37:SER:HB3	2.07	0.53
1:K:247:VAL:O	1:K:248:ARG:C	2.51	0.53
1:K:344:GLN:O	1:K:346:HIS:N	2.41	0.53
2:L:67:LYS:O	2:L:68:LEU:C	2.47	0.53
2:L:449:ILE:HG22	2:L:450:TRP:N	2.22	0.53
2:L:461:ASN:HB3	2:L:465:LEU:HD11	1.88	0.53
3:M:245:SER:HB2	3:M:252:THR:HB	1.88	0.53
3:N:276:LEU:N	3:N:418:TYR:OH	2.40	0.53
3:N:397:ILE:HD13	3:N:405:ALA:HB3	1.89	0.53
3:O:174:ASP:N	3:O:174:ASP:OD2	2.39	0.53
3:P:133:GLU:OE2	3:P:134:PHE:CE1	2.61	0.53
3:P:179:VAL:H	3:P:415:ASN:CB	2.20	0.53
3:P:184:SER:O	3:P:185:ALA:C	2.51	0.53
3:R:8:VAL:O	3:R:16:LEU:CB	2.54	0.53
4:S:50:LEU:HB3	4:S:57:VAL:CG2	2.38	0.53
4:T:74:GLN:HG2	4:T:74:GLN:O	2.08	0.53
3:V:409:VAL:CG1	3:V:410:ARG:H	2.21	0.53
4:W:74:GLN:HG2	4:W:74:GLN:O	2.08	0.53
4:X:59:TYR:HA	4:X:67:PHE:O	2.08	0.53
1:A:13:THR:C	1:A:26:MET:HE1	2.33	0.53
1:A:38:PHE:CD1	1:A:69:GLU:OE1	2.61	0.53
1:A:254:ARG:HG2	1:A:255:ILE:N	2.24	0.53
1:A:316:PHE:O	1:A:317:LEU:C	2.51	0.53
1:A:370:PHE:CZ	1:A:403:GLY:HA3	2.43	0.53
1:A:389:LEU:CD1	1:A:400:CYS:HB3	2.38	0.53
1:A:513:LEU:HD12	1:A:513:LEU:N	2.23	0.53
2:B:211:LEU:CD2	2:B:219:GLN:HA	2.39	0.53
2:B:449:ILE:HG22	2:B:450:TRP:N	2.22	0.53
1:C:83:ARG:O	1:C:84:ILE:C	2.51	0.53
1:C:438:VAL:HB	1:C:439:PRO:CD	2.23	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:62:ASN:O	2:D:63:LEU:C	2.50	0.53
2:D:177:VAL:O	2:D:178:ALA:C	2.50	0.53
1:E:362:LYS:O	1:E:363:ARG:C	2.52	0.53
2:F:262:VAL:HG23	2:F:263:LEU:N	2.21	0.53
2:F:263:LEU:HD13	2:F:284:LEU:HD11	1.90	0.53
2:F:335:LYS:HB3	2:F:369:PHE:CE1	2.44	0.53
1:G:66:GLY:O	1:G:67:GLN:C	2.48	0.53
1:G:389:LEU:CD1	1:G:400:CYS:HB3	2.38	0.53
1:G:531:MET:SD	1:G:566:TYR:HB3	2.48	0.53
2:H:105:LEU:HA	2:H:108:ARG:HG2	1.90	0.53
2:H:148:LEU:HA	2:H:151:ILE:HG13	1.90	0.53
2:H:211:LEU:CD2	2:H:219:GLN:HA	2.39	0.53
1:I:247:VAL:O	1:I:248:ARG:C	2.51	0.53
1:I:382:MET:HE1	1:I:404:ILE:HG23	1.89	0.53
1:I:470:GLN:HB2	1:I:471:PRO:CD	2.34	0.53
1:I:533:LEU:O	1:I:536:ARG:N	2.40	0.53
2:J:148:LEU:H	2:J:148:LEU:CD1	2.22	0.53
2:J:176:VAL:O	2:J:177:VAL:C	2.51	0.53
1:K:252:LEU:O	1:K:252:LEU:HD23	2.09	0.53
1:K:449:VAL:HG13	1:K:452:HIS:NE2	2.23	0.53
1:K:531:MET:SD	1:K:566:TYR:HB3	2.48	0.53
2:L:104:ALA:CB	2:L:136:TYR:HD2	2.20	0.53
2:L:317:LEU:O	2:L:319:HIS:N	2.41	0.53
3:N:273:VAL:O	3:N:274:LYS:C	2.51	0.53
3:P:106:ASN:CG	3:P:109:ILE:HD11	2.33	0.53
3:P:276:LEU:N	3:P:418:TYR:OH	2.40	0.53
3:R:56:ARG:N	3:R:56:ARG:CD	2.69	0.53
3:R:133:GLU:OE2	3:R:134:PHE:CE1	2.62	0.53
3:R:184:SER:O	3:R:185:ALA:C	2.51	0.53
4:T:135:ILE:HG23	4:T:136:GLU:N	2.24	0.53
4:U:59:TYR:HA	4:U:67:PHE:O	2.08	0.53
3:V:174:ASP:N	3:V:174:ASP:OD2	2.39	0.53
3:V:276:LEU:N	3:V:418:TYR:OH	2.40	0.53
4:W:33:ARG:O	4:W:34:GLU:C	2.51	0.53
4:X:33:ARG:O	4:X:34:GLU:C	2.51	0.53
2:B:62:ASN:O	2:B:63:LEU:C	2.50	0.53
2:B:72:TYR:O	2:B:73:LEU:C	2.52	0.53
2:B:148:LEU:H	2:B:148:LEU:CD1	2.22	0.53
2:B:257:LEU:CD1	2:B:567:ILE:HG22	2.39	0.53
1:C:344:GLN:O	1:C:346:HIS:N	2.41	0.53
1:C:543:ARG:O	1:C:547:VAL:HG23	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:148:LEU:HA	2:D:151:ILE:HG13	1.90	0.53
2:D:188:ALA:HA	2:D:195:ASN:CG	2.31	0.53
1:E:389:LEU:CD1	1:E:400:CYS:HB3	2.38	0.53
1:E:540:THR:C	1:E:542:ASN:N	2.65	0.53
1:E:540:THR:O	1:E:542:ASN:N	2.41	0.53
1:E:543:ARG:O	1:E:547:VAL:HG23	2.08	0.53
2:F:56:ASN:N	2:F:56:ASN:HD22	2.06	0.53
2:F:148:LEU:H	2:F:148:LEU:CD1	2.22	0.53
2:F:335:LYS:O	2:F:336:LEU:C	2.50	0.53
2:F:358:LEU:O	2:F:361:TYR:HB2	2.09	0.53
1:G:350:ILE:HG21	1:G:368:LEU:HD22	1.88	0.53
1:G:370:PHE:CZ	1:G:403:GLY:HA3	2.43	0.53
1:G:540:THR:O	1:G:542:ASN:N	2.41	0.53
2:H:257:LEU:O	2:H:258:SER:C	2.51	0.53
1:I:13:THR:C	1:I:26:MET:HE1	2.33	0.53
1:I:422:ILE:O	1:I:423:MET:C	2.50	0.53
1:I:442:ILE:CD1	1:I:475:VAL:HG13	2.38	0.53
2:J:211:LEU:CD2	2:J:219:GLN:HA	2.39	0.53
2:J:255:VAL:O	2:J:256:VAL:C	2.52	0.53
2:J:358:LEU:O	2:J:361:TYR:HB2	2.09	0.53
2:J:488:ILE:O	2:J:489:VAL:C	2.50	0.53
1:K:83:ARG:O	1:K:84:ILE:C	2.51	0.53
2:L:56:ASN:N	2:L:56:ASN:HD22	2.06	0.53
2:L:191:HIS:ND1	2:L:191:HIS:O	2.41	0.53
2:L:207:LEU:O	2:L:210:ALA:HB3	2.08	0.53
3:O:208:PRO:HG3	3:O:399:GLU:OE1	2.09	0.53
3:R:100:GLU:OE1	3:R:104:ARG:NH2	2.42	0.53
3:R:106:ASN:CG	3:R:109:ILE:HD11	2.33	0.53
4:S:33:ARG:O	4:S:34:GLU:C	2.51	0.53
4:S:71:ILE:HG22	4:S:72:GLU:H	1.71	0.53
4:T:4:PHE:C	4:T:4:PHE:CD1	2.86	0.53
4:T:30:LYS:HZ3	4:T:33:ARG:NH2	2.06	0.53
4:T:129:LYS:HB3	4:T:133:LYS:HE3	1.88	0.53
3:V:8:VAL:O	3:V:16:LEU:CB	2.54	0.53
3:V:343:TRP:CZ3	3:V:356:MET:HB2	2.44	0.53
1:A:362:LYS:O	1:A:363:ARG:C	2.52	0.53
2:B:128:LYS:O	2:B:130:LEU:N	2.41	0.53
2:B:191:HIS:ND1	2:B:191:HIS:O	2.41	0.53
2:B:517:PRO:O	2:B:518:ASP:C	2.52	0.53
2:B:563:LEU:O	2:B:564:ILE:C	2.50	0.53
1:C:38:PHE:CD1	1:C:69:GLU:OE1	2.61	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:74:ILE:HD12	1:C:74:ILE:N	2.19	0.53
1:C:429:ALA:O	1:C:430:GLY:C	2.50	0.53
2:D:97:ASP:OD1	2:D:98:PRO:HD2	2.09	0.53
2:D:115:VAL:O	2:D:118:ILE:CG2	2.51	0.53
2:D:491:LEU:CD1	2:D:492:PHE:N	2.66	0.53
1:E:31:CYS:HB3	1:E:56:MET:HE1	1.90	0.53
1:E:38:PHE:CD1	1:E:69:GLU:OE1	2.61	0.53
1:E:249:ILE:O	1:E:250:LEU:C	2.51	0.53
1:E:363:ARG:O	1:E:366:MET:N	2.41	0.53
1:E:442:ILE:CD1	1:E:475:VAL:HG13	2.38	0.53
2:F:72:TYR:O	2:F:73:LEU:C	2.51	0.53
2:F:323:VAL:HG23	2:F:324:PHE:N	2.22	0.53
1:G:543:ARG:O	1:G:547:VAL:HG23	2.08	0.53
2:H:88:VAL:HG11	2:H:121:TYR:HD2	1.69	0.53
2:H:128:LYS:O	2:H:130:LEU:N	2.41	0.53
2:H:463:ASP:O	2:H:464:GLU:C	2.51	0.53
2:H:485:LEU:O	2:H:486:THR:C	2.50	0.53
1:I:38:PHE:CD1	1:I:69:GLU:OE1	2.61	0.53
1:I:271:LEU:O	1:I:272:ALA:C	2.52	0.53
2:J:34:VAL:O	2:J:38:ILE:HD13	2.07	0.53
2:J:317:LEU:O	2:J:319:HIS:N	2.42	0.53
2:J:407:VAL:O	2:J:408:GLN:C	2.48	0.53
1:K:74:ILE:HG13	1:K:86:TYR:CE1	2.44	0.53
1:K:249:ILE:O	1:K:250:LEU:C	2.51	0.53
1:K:389:LEU:CD1	1:K:400:CYS:HB3	2.38	0.53
1:K:467:TYR:OH	1:K:511:SER:HB2	2.07	0.53
2:L:61:ASP:O	2:L:62:ASN:C	2.52	0.53
2:L:211:LEU:CD2	2:L:219:GLN:HA	2.39	0.53
2:L:262:VAL:HG23	2:L:263:LEU:N	2.21	0.53
3:M:106:ASN:CG	3:M:109:ILE:HD11	2.33	0.53
3:M:409:VAL:CG1	3:M:410:ARG:H	2.21	0.53
3:O:100:GLU:OE1	3:O:104:ARG:NH2	2.42	0.53
3:P:25:VAL:O	3:P:26:ASP:C	2.50	0.53
3:P:112:GLU:OE1	3:P:136:THR:N	2.40	0.53
3:P:386:THR:CG2	3:P:389:GLY:H	2.21	0.53
4:Q:117:PHE:C	4:Q:117:PHE:CD1	2.86	0.53
3:R:62:HIS:NE2	3:R:98:LEU:HD23	2.22	0.53
3:R:118:MET:HB2	3:R:123:PRO:CA	2.38	0.53
3:R:310:VAL:HG22	3:R:311:GLU:N	2.21	0.53
4:X:40:LEU:C	4:X:40:LEU:HD12	2.34	0.53
1:A:113:HIS:HD2	1:A:115:THR:H	1.56	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:247:VAL:O	1:A:248:ARG:C	2.51	0.53
1:A:366:MET:SD	1:A:400:CYS:SG	3.06	0.53
1:A:430:GLY:C	1:A:432:TYR:N	2.64	0.53
1:A:543:ARG:O	1:A:547:VAL:HG23	2.08	0.53
2:B:207:LEU:O	2:B:210:ALA:HB3	2.08	0.53
2:B:463:ASP:O	2:B:464:GLU:C	2.51	0.53
2:B:566:TYR:CE2	2:B:578:PRO:HG2	2.44	0.53
1:C:370:PHE:CZ	1:C:403:GLY:HA3	2.43	0.53
2:D:70:TYR:O	2:D:71:LEU:C	2.50	0.53
2:D:105:LEU:HA	2:D:108:ARG:HG2	1.90	0.53
2:D:176:VAL:O	2:D:177:VAL:C	2.51	0.53
2:D:178:ALA:O	2:D:179:ASN:C	2.50	0.53
2:D:191:HIS:ND1	2:D:191:HIS:O	2.41	0.53
2:D:426:GLU:O	2:D:429:ILE:N	2.28	0.53
2:D:493:LEU:HD13	2:D:538:LYS:HA	1.90	0.53
2:D:574:TYR:O	2:D:575:HIS:HB2	2.08	0.53
1:E:36:SER:HA	1:E:39:ARG:CG	2.36	0.53
1:E:343:VAL:HG23	1:E:344:GLN:N	2.24	0.53
1:E:372:LEU:N	1:E:372:LEU:CD1	2.69	0.53
1:E:513:LEU:HD12	1:E:513:LEU:N	2.23	0.53
2:F:191:HIS:ND1	2:F:191:HIS:O	2.41	0.53
2:F:388:ALA:O	2:F:389:GLU:C	2.50	0.53
2:F:409:GLU:O	2:F:412:VAL:HB	2.08	0.53
2:F:473:PHE:CG	2:F:474:HIS:N	2.64	0.53
1:G:5:ILE:C	1:G:52:LYS:HZ1	2.17	0.53
1:G:31:CYS:HB3	1:G:56:MET:HE1	1.90	0.53
1:G:146:LEU:HD23	1:G:146:LEU:C	2.33	0.53
1:G:247:VAL:O	1:G:248:ARG:C	2.51	0.53
2:H:317:LEU:O	2:H:319:HIS:N	2.42	0.53
1:I:67:GLN:NE2	1:I:93:LEU:HD23	2.17	0.53
1:I:370:PHE:CZ	1:I:403:GLY:HA3	2.43	0.53
1:I:479:CYS:O	1:I:483:TYR:N	2.31	0.53
2:J:83:MET:O	2:J:84:ALA:C	2.52	0.53
2:J:128:LYS:O	2:J:130:LEU:N	2.41	0.53
2:J:334:VAL:O	2:J:335:LYS:C	2.50	0.53
2:J:406:VAL:O	2:J:407:VAL:C	2.50	0.53
2:J:445:ARG:O	2:J:448:MET:HB3	2.09	0.53
2:J:573:VAL:HG13	2:J:574:TYR:N	2.23	0.53
2:L:105:LEU:HA	2:L:108:ARG:HG2	1.89	0.53
2:L:492:PHE:CG	2:L:503:VAL:HG21	2.43	0.53
3:N:208:PRO:HG3	3:N:399:GLU:OE1	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:P:76:CYS:O	3:P:77:VAL:C	2.50	0.53
3:P:100:GLU:OE1	3:P:104:ARG:NH2	2.42	0.53
3:P:416:GLY:C	3:P:418:TYR:N	2.65	0.53
4:Q:4:PHE:CD1	4:Q:4:PHE:C	2.86	0.53
4:Q:74:GLN:O	4:Q:74:GLN:HG2	2.08	0.53
3:R:76:CYS:HB2	3:R:79:LEU:HD12	1.89	0.53
3:R:233:LEU:CD1	3:R:268:ARG:O	2.56	0.53
3:R:276:LEU:N	3:R:418:TYR:OH	2.40	0.53
3:R:277:ILE:N	3:R:418:TYR:OH	2.40	0.53
4:T:40:LEU:C	4:T:40:LEU:HD12	2.34	0.53
4:U:71:ILE:HG22	4:U:72:GLU:H	1.71	0.53
3:V:325:PHE:CD2	3:V:325:PHE:N	2.72	0.53
4:W:4:PHE:C	4:W:4:PHE:CD1	2.86	0.53
1:A:31:CYS:HB3	1:A:56:MET:HE1	1.90	0.53
1:A:540:THR:O	1:A:542:ASN:N	2.41	0.53
2:B:39:ALA:C	2:B:41:MET:N	2.61	0.53
2:B:83:MET:O	2:B:84:ALA:C	2.52	0.53
2:B:343:ILE:HG22	2:B:344:ARG:N	2.23	0.53
2:B:493:LEU:C	2:B:495:LYS:N	2.62	0.53
1:C:13:THR:C	1:C:26:MET:HE1	2.33	0.53
1:C:146:LEU:HD23	1:C:146:LEU:C	2.33	0.53
1:C:252:LEU:O	1:C:252:LEU:HD23	2.08	0.53
1:C:531:MET:SD	1:C:566:TYR:HB3	2.48	0.53
2:D:149:HIS:CE1	2:D:187:ILE:HG23	2.43	0.53
2:D:447:ALA:O	2:D:448:MET:C	2.50	0.53
2:D:492:PHE:CG	2:D:503:VAL:HG21	2.43	0.53
1:E:146:LEU:HD23	1:E:146:LEU:C	2.33	0.53
1:E:366:MET:SD	1:E:400:CYS:SG	3.06	0.53
2:F:28:GLU:HA	2:F:28:GLU:OE2	2.07	0.53
2:F:130:LEU:C	2:F:132:ASP:N	2.67	0.53
2:F:178:ALA:O	2:F:179:ASN:C	2.50	0.53
2:F:211:LEU:CD2	2:F:219:GLN:HA	2.39	0.53
2:F:211:LEU:HD13	2:F:247:ARG:HD2	1.90	0.53
1:G:249:ILE:O	1:G:250:LEU:C	2.51	0.53
1:G:252:LEU:O	1:G:252:LEU:HD23	2.09	0.53
1:G:478:TRP:CZ2	1:G:482:GLU:CG	2.92	0.53
2:H:50:LEU:O	2:H:51:PHE:C	2.51	0.53
2:H:70:TYR:O	2:H:71:LEU:C	2.50	0.53
2:H:335:LYS:HB3	2:H:369:PHE:CE1	2.44	0.53
2:H:377:ILE:HG21	2:H:395:LEU:CD2	2.39	0.53
2:J:183:ALA:O	2:J:187:ILE:HG13	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:254:ARG:HG2	1:K:255:ILE:N	2.23	0.53
1:K:271:LEU:O	1:K:272:ALA:C	2.52	0.53
1:K:442:ILE:CD1	1:K:475:VAL:HG13	2.38	0.53
1:K:540:THR:O	1:K:542:ASN:N	2.41	0.53
2:L:148:LEU:H	2:L:148:LEU:CD1	2.22	0.53
3:O:173:LEU:C	3:O:173:LEU:CD2	2.76	0.53
3:O:233:LEU:CD1	3:O:268:ARG:O	2.56	0.53
3:O:416:GLY:O	3:O:418:TYR:N	2.41	0.53
3:P:42:GLU:HB3	3:P:302:LYS:HB2	1.91	0.53
4:Q:50:LEU:HD23	4:Q:50:LEU:C	2.34	0.53
4:T:87:TYR:O	4:T:88:VAL:C	2.51	0.53
4:T:112:PHE:O	4:T:113:ILE:C	2.52	0.53
4:U:40:LEU:C	4:U:40:LEU:HD12	2.34	0.53
3:V:208:PRO:HG3	3:V:399:GLU:OE1	2.09	0.53
4:W:135:ILE:HG23	4:W:136:GLU:N	2.24	0.53
1:A:83:ARG:O	1:A:84:ILE:C	2.51	0.53
1:A:153:LEU:O	1:A:154:ARG:C	2.49	0.53
1:A:529:ALA:O	1:A:530:ILE:C	2.50	0.53
1:A:531:MET:SD	1:A:566:TYR:HB3	2.48	0.53
2:B:57:CYS:O	2:B:65:LEU:HD21	2.09	0.53
1:C:212:PHE:O	1:C:216:VAL:CG2	2.55	0.53
1:C:236:ASP:HA	1:C:240:ILE:O	2.09	0.53
1:C:254:ARG:HB2	1:C:295:THR:OG1	2.07	0.53
1:C:473:VAL:O	1:C:474:GLN:C	2.52	0.53
1:C:540:THR:O	1:C:542:ASN:N	2.41	0.53
2:F:149:HIS:CE1	2:F:187:ILE:HG23	2.43	0.53
2:F:226:LEU:HD23	2:F:226:LEU:N	2.23	0.53
2:H:57:CYS:O	2:H:65:LEU:HD21	2.09	0.53
1:I:113:HIS:HD2	1:I:115:THR:H	1.56	0.53
1:I:254:ARG:HB2	1:I:295:THR:OG1	2.08	0.53
1:I:430:GLY:C	1:I:432:TYR:N	2.64	0.53
1:I:473:VAL:O	1:I:474:GLN:C	2.52	0.53
2:J:70:TYR:O	2:J:71:LEU:C	2.50	0.53
2:J:211:LEU:HD13	2:J:247:ARG:HD2	1.90	0.53
2:J:257:LEU:CD1	2:J:567:ILE:HG22	2.39	0.53
1:K:478:TRP:CZ2	1:K:482:GLU:CG	2.92	0.53
1:K:558:GLU:O	1:K:559:LEU:C	2.49	0.53
2:L:97:ASP:OD1	2:L:98:PRO:HD2	2.09	0.53
2:L:493:LEU:HD13	2:L:538:LYS:HA	1.90	0.53
3:M:100:GLU:OE1	3:M:104:ARG:NH2	2.42	0.53
3:N:106:ASN:CG	3:N:109:ILE:HD11	2.33	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:416:GLY:O	3:N:418:TYR:N	2.41	0.53
3:P:208:PRO:HG3	3:P:399:GLU:OE1	2.09	0.53
3:P:408:TRP:N	3:P:408:TRP:CD1	2.74	0.53
4:Q:40:LEU:O	4:Q:40:LEU:HD12	2.09	0.53
3:R:25:VAL:O	3:R:26:ASP:C	2.50	0.53
4:S:14:LEU:CD1	4:S:16:LEU:H	2.22	0.53
4:U:33:ARG:O	4:U:34:GLU:C	2.51	0.53
4:U:50:LEU:HB3	4:U:57:VAL:CG2	2.38	0.53
4:U:74:GLN:HG2	4:U:74:GLN:O	2.08	0.53
4:U:87:TYR:O	4:U:88:VAL:C	2.51	0.53
3:V:107:PHE:O	3:V:108:VAL:C	2.52	0.53
4:W:40:LEU:C	4:W:40:LEU:HD12	2.34	0.53
4:W:50:LEU:HD23	4:W:50:LEU:C	2.34	0.53
4:W:86:ARG:O	4:W:87:TYR:C	2.52	0.53
4:X:112:PHE:O	4:X:113:ILE:C	2.52	0.53
1:A:138:LEU:O	1:A:139:ALA:C	2.52	0.53
1:A:331:SER:O	1:A:332:LEU:C	2.52	0.53
1:A:397:LYS:O	1:A:398:ALA:C	2.49	0.53
2:B:19:LYS:O	2:B:22:LEU:HB3	2.08	0.53
2:B:115:VAL:O	2:B:118:ILE:CG2	2.51	0.53
2:B:317:LEU:HD13	2:B:317:LEU:N	2.24	0.53
1:C:31:CYS:HB3	1:C:56:MET:HE1	1.90	0.53
1:C:362:LYS:O	1:C:363:ARG:C	2.52	0.53
1:C:382:MET:HE1	1:C:404:ILE:HG23	1.89	0.53
1:C:472:LEU:O	1:C:473:VAL:C	2.51	0.53
2:D:19:LYS:O	2:D:22:LEU:HB3	2.08	0.53
2:D:255:VAL:O	2:D:256:VAL:C	2.52	0.53
2:D:573:VAL:HG13	2:D:574:TYR:N	2.23	0.53
1:E:394:PRO:O	1:E:395:GLU:C	2.50	0.53
1:E:422:ILE:O	1:E:423:MET:C	2.50	0.53
1:E:430:GLY:C	1:E:432:TYR:N	2.64	0.53
2:F:57:CYS:O	2:F:65:LEU:HD21	2.09	0.53
2:F:83:MET:O	2:F:84:ALA:C	2.52	0.53
2:F:255:VAL:O	2:F:256:VAL:C	2.52	0.53
2:F:343:ILE:HG22	2:F:344:ARG:N	2.23	0.53
2:F:445:ARG:O	2:F:448:MET:HB3	2.09	0.53
2:F:480:VAL:HG13	2:F:481:GLN:N	2.24	0.53
1:G:583:ARG:HB2	2:H:528:ARG:HH12	1.74	0.53
2:H:19:LYS:O	2:H:22:LEU:HB3	2.08	0.53
2:H:97:ASP:OD1	2:H:98:PRO:HD2	2.09	0.53
1:I:316:PHE:O	1:I:317:LEU:C	2.51	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:449:VAL:HG13	1:I:452:HIS:NE2	2.23	0.53
1:I:478:TRP:CZ2	1:I:482:GLU:CG	2.92	0.53
1:I:543:ARG:O	1:I:547:VAL:HG23	2.08	0.53
2:J:115:VAL:O	2:J:118:ILE:CG2	2.51	0.53
2:J:302:PRO:O	2:J:305:ASN:N	2.41	0.53
2:J:377:ILE:HG21	2:J:395:LEU:CD2	2.39	0.53
1:K:10:LEU:O	1:K:13:THR:N	2.40	0.53
1:K:31:CYS:HB3	1:K:56:MET:HE1	1.90	0.53
2:L:149:HIS:CE1	2:L:187:ILE:HG23	2.44	0.53
2:L:211:LEU:HD13	2:L:247:ARG:HD2	1.90	0.53
3:M:107:PHE:O	3:M:108:VAL:C	2.52	0.53
3:O:106:ASN:CG	3:O:109:ILE:HD11	2.33	0.53
3:O:343:TRP:CZ3	3:O:356:MET:HB2	2.44	0.53
3:P:7:TYR:O	3:P:67:LEU:HD12	2.09	0.53
3:V:56:ARG:HG3	3:V:56:ARG:NH1	2.21	0.53
3:V:106:ASN:CG	3:V:109:ILE:HD11	2.33	0.53
3:V:416:GLY:O	3:V:418:TYR:N	2.41	0.53
4:X:40:LEU:O	4:X:40:LEU:HD12	2.09	0.53
2:B:255:VAL:O	2:B:256:VAL:C	2.52	0.53
2:B:387:SER:CA	2:B:390:ARG:HD2	2.25	0.53
2:B:409:GLU:O	2:B:412:VAL:HB	2.08	0.53
1:C:55:TYR:C	1:C:55:TYR:CD1	2.87	0.53
2:D:148:LEU:H	2:D:148:LEU:CD1	2.22	0.53
2:D:317:LEU:O	2:D:319:HIS:N	2.42	0.53
2:D:324:PHE:HE2	2:D:341:ILE:HG21	1.70	0.53
2:D:445:ARG:O	2:D:448:MET:HB3	2.09	0.53
1:E:239:GLY:C	1:E:240:ILE:HG13	2.32	0.53
1:E:368:LEU:HD23	1:E:369:SER:N	2.24	0.53
1:E:583:ARG:HB2	2:F:528:ARG:HH12	1.74	0.53
2:F:485:LEU:O	2:F:486:THR:C	2.50	0.53
2:H:262:VAL:HG23	2:H:263:LEU:N	2.21	0.53
1:I:368:LEU:HG	1:I:372:LEU:HD11	1.91	0.53
1:I:397:LYS:O	1:I:398:ALA:C	2.49	0.53
2:J:97:ASP:OD1	2:J:98:PRO:HD2	2.09	0.53
2:J:262:VAL:O	2:J:266:PHE:HD1	1.90	0.53
1:K:38:PHE:CD1	1:K:69:GLU:OE1	2.61	0.53
1:K:66:GLY:O	1:K:67:GLN:C	2.48	0.53
1:K:134:MET:O	1:K:137:ASP:N	2.38	0.53
1:K:411:TYR:H	1:K:411:TYR:HD1	1.52	0.53
1:K:472:LEU:O	1:K:473:VAL:C	2.51	0.53
2:L:62:ASN:O	2:L:63:LEU:C	2.50	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:72:TYR:O	2:L:73:LEU:C	2.52	0.53
2:L:358:LEU:O	2:L:361:TYR:HB2	2.09	0.53
2:L:387:SER:HA	2:L:390:ARG:CD	2.26	0.53
2:L:463:ASP:O	2:L:464:GLU:C	2.51	0.53
3:M:386:THR:CG2	3:M:389:GLY:H	2.21	0.53
3:N:133:GLU:OE2	3:N:134:PHE:CE1	2.62	0.53
3:N:277:ILE:N	3:N:418:TYR:OH	2.40	0.53
4:Q:135:ILE:HG23	4:Q:136:GLU:N	2.24	0.53
3:R:343:TRP:CZ3	3:R:356:MET:HB2	2.44	0.53
4:S:85:HIS:C	4:S:88:VAL:HG22	2.34	0.53
4:S:117:PHE:CD1	4:S:117:PHE:C	2.85	0.53
4:U:85:HIS:C	4:U:88:VAL:HG22	2.34	0.53
3:V:95:PHE:HA	3:V:141:LYS:HG2	1.91	0.53
1:A:152:TYR:OH	4:S:116:GLU:OE1	2.27	0.53
1:A:315:ARG:HG3	1:A:315:ARG:NH1	2.24	0.53
2:B:455:TYR:N	2:B:455:TYR:CD1	2.77	0.53
1:C:331:SER:O	1:C:332:LEU:C	2.52	0.53
2:D:72:TYR:O	2:D:73:LEU:C	2.51	0.53
2:D:505:GLN:O	2:D:506:VAL:C	2.50	0.53
1:E:71:LEU:HD23	1:E:71:LEU:C	2.33	0.53
1:E:331:SER:O	1:E:332:LEU:C	2.52	0.53
1:E:368:LEU:HG	1:E:372:LEU:HD11	1.91	0.53
1:E:370:PHE:CZ	1:E:403:GLY:HA3	2.43	0.53
2:F:19:LYS:O	2:F:22:LEU:HB3	2.08	0.53
2:F:88:VAL:HG11	2:F:121:TYR:HD2	1.69	0.53
2:F:317:LEU:N	2:F:317:LEU:HD13	2.24	0.53
2:F:449:ILE:HG22	2:F:450:TRP:N	2.22	0.53
1:G:375:GLY:C	1:G:377:ASN:H	2.14	0.53
2:H:62:ASN:O	2:H:63:LEU:C	2.50	0.53
2:H:86:MET:HE2	3:R:237:LYS:CB	2.31	0.53
2:H:573:VAL:HG13	2:H:574:TYR:N	2.23	0.53
1:I:13:THR:O	1:I:26:MET:HE1	2.09	0.53
1:I:146:LEU:HD23	1:I:146:LEU:C	2.33	0.53
1:I:389:LEU:CD1	1:I:400:CYS:HB3	2.38	0.53
1:I:572:LYS:CG	1:I:573:TYR:CE1	2.92	0.53
2:J:226:LEU:HD23	2:J:226:LEU:N	2.24	0.53
1:K:362:LYS:O	1:K:363:ARG:C	2.52	0.53
2:L:83:MET:O	2:L:84:ALA:C	2.52	0.53
2:L:445:ARG:O	2:L:448:MET:HB3	2.09	0.53
2:L:470:LEU:C	2:L:472:GLY:N	2.64	0.53
3:N:184:SER:O	3:N:185:ALA:C	2.51	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:O:8:VAL:O	3:O:16:LEU:CB	2.54	0.53
3:O:380:PHE:C	3:O:380:PHE:CD1	2.87	0.53
4:Q:50:LEU:HB3	4:Q:57:VAL:CG2	2.38	0.53
3:R:208:PRO:HG3	3:R:399:GLU:OE1	2.09	0.53
3:V:7:TYR:O	3:V:67:LEU:HD12	2.09	0.53
3:V:131:LEU:O	3:V:134:PHE:N	2.34	0.53
4:X:4:PHE:C	4:X:4:PHE:CD1	2.86	0.53
4:X:117:PHE:C	4:X:117:PHE:CD1	2.86	0.53
1:A:36:SER:HA	1:A:39:ARG:CG	2.36	0.52
1:A:249:ILE:O	1:A:250:LEU:C	2.51	0.52
1:A:333:LEU:HD12	1:A:368:LEU:HD12	1.89	0.52
1:A:343:VAL:HG23	1:A:344:GLN:N	2.24	0.52
2:B:50:LEU:O	2:B:51:PHE:C	2.51	0.52
1:C:478:TRP:CZ2	1:C:482:GLU:CG	2.92	0.52
1:C:529:ALA:O	1:C:530:ILE:C	2.50	0.52
1:C:572:LYS:HG3	1:C:573:TYR:CE1	2.45	0.52
2:D:257:LEU:O	2:D:258:SER:C	2.51	0.52
2:D:449:ILE:HG22	2:D:450:TRP:N	2.22	0.52
2:D:466:LEU:HD23	2:D:488:ILE:HD13	1.91	0.52
2:D:480:VAL:HG13	2:D:481:GLN:N	2.24	0.52
1:E:10:LEU:O	1:E:13:THR:N	2.40	0.52
1:E:13:THR:O	1:E:26:MET:HE1	2.09	0.52
1:E:205:SER:HB2	1:E:206:PRO:HD3	1.91	0.52
1:E:401:ALA:O	1:E:402:SER:C	2.52	0.52
2:F:70:TYR:O	2:F:71:LEU:C	2.50	0.52
2:F:177:VAL:O	2:F:178:ALA:C	2.50	0.52
2:F:378:GLY:O	2:F:379:ARG:C	2.49	0.52
2:F:385:GLU:C	2:F:387:SER:N	2.67	0.52
2:F:463:ASP:O	2:F:464:GLU:C	2.51	0.52
2:F:475:ASP:O	2:F:476:GLU:CG	2.57	0.52
2:F:517:PRO:O	2:F:518:ASP:C	2.52	0.52
2:F:566:TYR:CE2	2:F:578:PRO:HG2	2.44	0.52
1:G:13:THR:C	1:G:26:MET:HE1	2.33	0.52
1:G:116:GLN:HG2	1:G:117:PHE:CD1	2.44	0.52
1:G:368:LEU:HG	1:G:372:LEU:HD11	1.91	0.52
1:G:472:LEU:O	1:G:473:VAL:C	2.51	0.52
1:G:572:LYS:CG	1:G:573:TYR:CE1	2.92	0.52
2:H:107:VAL:HG12	2:H:144:CYS:SG	2.49	0.52
2:H:334:VAL:O	2:H:335:LYS:C	2.50	0.52
1:I:236:ASP:HA	1:I:240:ILE:O	2.09	0.52
1:I:252:LEU:O	1:I:252:LEU:HD23	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:35:LYS:O	2:J:38:ILE:HG12	2.10	0.52
2:J:107:VAL:HG12	2:J:144:CYS:SG	2.49	0.52
2:J:149:HIS:CE1	2:J:187:ILE:HG23	2.43	0.52
2:J:426:GLU:O	2:J:429:ILE:N	2.28	0.52
1:K:232:SER:O	1:K:234:GLU:N	2.43	0.52
1:K:370:PHE:CZ	1:K:403:GLY:HA3	2.43	0.52
1:K:425:VAL:CG1	1:K:426:LEU:N	2.73	0.52
1:K:572:LYS:CG	1:K:573:TYR:CE1	2.92	0.52
2:L:57:CYS:O	2:L:65:LEU:HD21	2.09	0.52
2:L:226:LEU:N	2:L:226:LEU:HD23	2.23	0.52
2:L:255:VAL:O	2:L:256:VAL:C	2.52	0.52
2:L:335:LYS:HB3	2:L:369:PHE:CE1	2.44	0.52
2:L:485:LEU:O	2:L:486:THR:C	2.50	0.52
2:L:488:ILE:O	2:L:489:VAL:C	2.50	0.52
2:L:491:LEU:CD1	2:L:492:PHE:N	2.66	0.52
2:L:517:PRO:O	2:L:518:ASP:C	2.52	0.52
3:M:8:VAL:O	3:M:16:LEU:CB	2.54	0.52
3:M:174:ASP:N	3:M:174:ASP:OD2	2.39	0.52
3:O:25:VAL:O	3:O:26:ASP:C	2.50	0.52
3:O:107:PHE:O	3:O:108:VAL:C	2.52	0.52
3:O:133:GLU:OE2	3:O:134:PHE:CE1	2.62	0.52
3:P:277:ILE:N	3:P:418:TYR:OH	2.40	0.52
4:Q:14:LEU:CD1	4:Q:16:LEU:H	2.22	0.52
4:S:50:LEU:HD23	4:S:50:LEU:C	2.34	0.52
4:S:59:TYR:HA	4:S:67:PHE:O	2.08	0.52
4:T:14:LEU:CD1	4:T:16:LEU:H	2.22	0.52
4:T:108:GLU:CG	4:T:109:LYS:N	2.72	0.52
4:U:40:LEU:O	4:U:40:LEU:HD12	2.09	0.52
3:V:118:MET:HB2	3:V:123:PRO:CA	2.38	0.52
3:V:133:GLU:OE2	3:V:134:PHE:CE1	2.62	0.52
3:V:184:SER:O	3:V:185:ALA:C	2.51	0.52
4:W:85:HIS:C	4:W:88:VAL:HG22	2.34	0.52
4:X:14:LEU:CD1	4:X:16:LEU:H	2.22	0.52
1:A:252:LEU:O	1:A:252:LEU:HD23	2.09	0.52
1:A:368:LEU:HD23	1:A:369:SER:N	2.24	0.52
2:B:35:LYS:O	2:B:38:ILE:HG12	2.10	0.52
2:B:104:ALA:CB	2:B:136:TYR:HD2	2.20	0.52
2:B:148:LEU:HA	2:B:151:ILE:HG13	1.90	0.52
1:C:250:LEU:HA	1:C:253:LEU:CD1	2.35	0.52
1:C:368:LEU:HD23	1:C:369:SER:N	2.24	0.52
2:D:107:VAL:HG12	2:D:144:CYS:SG	2.50	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:317:LEU:N	2:D:317:LEU:HD13	2.24	0.52
2:D:475:ASP:O	2:D:476:GLU:CG	2.57	0.52
2:D:566:TYR:CE2	2:D:578:PRO:HG2	2.44	0.52
1:E:138:LEU:O	1:E:139:ALA:C	2.52	0.52
1:E:252:LEU:O	1:E:252:LEU:HD23	2.09	0.52
1:E:254:ARG:HA	1:E:295:THR:HG23	1.92	0.52
1:E:529:ALA:O	1:E:530:ILE:C	2.50	0.52
2:F:73:LEU:O	2:F:74:MET:C	2.53	0.52
2:F:257:LEU:CD1	2:F:567:ILE:HG22	2.39	0.52
2:H:148:LEU:HA	2:H:151:ILE:HD11	1.92	0.52
2:H:226:LEU:N	2:H:226:LEU:HD23	2.24	0.52
2:H:317:LEU:HD13	2:H:317:LEU:N	2.24	0.52
2:H:358:LEU:O	2:H:361:TYR:HB2	2.09	0.52
2:H:517:PRO:O	2:H:518:ASP:C	2.52	0.52
1:I:116:GLN:HG2	1:I:117:PHE:CD1	2.44	0.52
1:I:529:ALA:O	1:I:530:ILE:C	2.50	0.52
1:I:583:ARG:HB2	2:J:528:ARG:HH12	1.74	0.52
2:J:17:GLU:HB3	2:J:18:LEU:HD22	1.92	0.52
2:J:263:LEU:HD13	2:J:284:LEU:HD11	1.90	0.52
2:J:466:LEU:HD23	2:J:488:ILE:HD13	1.92	0.52
2:J:491:LEU:HD12	2:J:492:PHE:H	1.71	0.52
2:L:65:LEU:O	2:L:69:VAL:HG23	2.09	0.52
2:L:406:VAL:O	2:L:407:VAL:C	2.50	0.52
3:M:133:GLU:OE2	3:M:134:PHE:CE1	2.62	0.52
3:O:95:PHE:HA	3:O:141:LYS:HG2	1.91	0.52
3:R:107:PHE:O	3:R:108:VAL:C	2.52	0.52
3:R:255:PHE:N	3:R:255:PHE:CD2	2.78	0.52
3:R:416:GLY:O	3:R:418:TYR:N	2.41	0.52
4:S:86:ARG:O	4:S:87:TYR:C	2.52	0.52
4:T:40:LEU:O	4:T:40:LEU:HD12	2.09	0.52
3:V:100:GLU:OE1	3:V:104:ARG:NH2	2.42	0.52
4:X:74:GLN:HG2	4:X:74:GLN:O	2.08	0.52
4:X:85:HIS:C	4:X:88:VAL:HG22	2.34	0.52
1:A:134:MET:O	1:A:137:ASP:N	2.38	0.52
1:A:193:THR:OG1	1:A:194:SER:N	2.43	0.52
1:A:401:ALA:O	1:A:402:SER:C	2.52	0.52
1:A:533:LEU:O	1:A:536:ARG:N	2.40	0.52
2:B:226:LEU:HD23	2:B:226:LEU:N	2.23	0.52
2:B:263:LEU:HD13	2:B:284:LEU:HD11	1.90	0.52
2:B:573:VAL:HG13	2:B:574:TYR:N	2.23	0.52
1:C:71:LEU:CA	1:C:74:ILE:HD13	2.29	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:232:SER:O	1:C:234:GLU:N	2.43	0.52
2:D:50:LEU:O	2:D:51:PHE:C	2.51	0.52
2:D:241:CYS:C	2:D:243:ARG:H	2.17	0.52
2:D:339:LEU:O	2:D:340:ASP:C	2.53	0.52
2:D:343:ILE:HG22	2:D:344:ARG:N	2.23	0.52
2:D:455:TYR:N	2:D:455:TYR:CD1	2.77	0.52
1:E:236:ASP:HA	1:E:240:ILE:O	2.09	0.52
1:E:344:GLN:O	1:E:346:HIS:N	2.41	0.52
1:E:533:LEU:HB3	1:E:537:PHE:CD1	2.45	0.52
1:E:572:LYS:HG3	1:E:573:TYR:CE1	2.45	0.52
2:F:573:VAL:HG13	2:F:574:TYR:N	2.23	0.52
1:G:236:ASP:HA	1:G:240:ILE:O	2.09	0.52
1:G:344:GLN:O	1:G:346:HIS:N	2.41	0.52
2:H:12:LYS:CG	2:H:13:GLY:N	2.73	0.52
2:H:191:HIS:ND1	2:H:191:HIS:O	2.41	0.52
2:H:449:ILE:O	2:H:450:TRP:C	2.53	0.52
2:J:343:ILE:C	2:J:345:LEU:N	2.59	0.52
2:J:385:GLU:C	2:J:387:SER:N	2.67	0.52
2:J:449:ILE:O	2:J:450:TRP:C	2.52	0.52
1:K:331:SER:O	1:K:332:LEU:C	2.52	0.52
1:K:526:ALA:O	1:K:529:ALA:HB3	2.09	0.52
1:K:533:LEU:HB3	1:K:537:PHE:CD1	2.45	0.52
2:L:449:ILE:O	2:L:450:TRP:C	2.52	0.52
3:M:343:TRP:CZ3	3:M:356:MET:HB2	2.44	0.52
3:N:7:TYR:O	3:N:67:LEU:HD12	2.09	0.52
3:P:28:SER:O	3:P:30:VAL:N	2.43	0.52
4:Q:8:PHE:HD2	4:Q:8:PHE:N	1.96	0.52
4:Q:85:HIS:C	4:Q:88:VAL:HG22	2.34	0.52
3:R:28:SER:O	3:R:30:VAL:N	2.43	0.52
3:V:28:SER:O	3:V:30:VAL:N	2.43	0.52
4:X:50:LEU:HD23	4:X:50:LEU:C	2.34	0.52
1:A:74:ILE:HG13	1:A:86:TYR:CE1	2.44	0.52
2:B:61:ASP:O	2:B:62:ASN:C	2.52	0.52
2:B:317:LEU:O	2:B:319:HIS:N	2.42	0.52
2:B:335:LYS:HB3	2:B:369:PHE:CE1	2.44	0.52
2:B:507:LEU:O	2:B:508:SER:C	2.53	0.52
1:C:13:THR:O	1:C:26:MET:HE1	2.09	0.52
1:C:74:ILE:HG13	1:C:86:TYR:CE1	2.44	0.52
1:C:152:TYR:HD1	1:C:155:LYS:HE2	1.75	0.52
1:C:160:CYS:O	1:C:161:ALA:C	2.50	0.52
1:C:254:ARG:HG2	1:C:255:ILE:N	2.24	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:141:ALA:O	2:D:145:VAL:HG23	2.10	0.52
1:E:250:LEU:O	1:E:251:ARG:C	2.53	0.52
1:E:254:ARG:HG2	1:E:255:ILE:N	2.24	0.52
1:E:473:VAL:O	1:E:474:GLN:C	2.52	0.52
2:F:35:LYS:O	2:F:38:ILE:HG12	2.10	0.52
2:F:164:THR:HG22	2:F:168:LEU:CD1	2.31	0.52
2:F:317:LEU:O	2:F:319:HIS:N	2.41	0.52
1:G:71:LEU:CA	1:G:74:ILE:HD13	2.29	0.52
1:G:74:ILE:HG13	1:G:86:TYR:CE1	2.44	0.52
1:G:205:SER:HB2	1:G:206:PRO:HD3	1.91	0.52
1:G:315:ARG:HG3	1:G:315:ARG:NH1	2.24	0.52
2:H:35:LYS:O	2:H:38:ILE:HG12	2.10	0.52
2:H:61:ASP:O	2:H:62:ASN:C	2.52	0.52
2:H:115:VAL:O	2:H:118:ILE:CG2	2.51	0.52
2:H:304:ARG:CG	2:H:573:VAL:HA	2.40	0.52
2:H:507:LEU:O	2:H:508:SER:C	2.53	0.52
1:I:55:TYR:C	1:I:55:TYR:CD1	2.87	0.52
1:I:368:LEU:HD23	1:I:369:SER:N	2.24	0.52
1:I:425:VAL:CG1	1:I:426:LEU:N	2.73	0.52
2:J:339:LEU:O	2:J:340:ASP:C	2.53	0.52
1:K:368:LEU:HD23	1:K:369:SER:N	2.24	0.52
2:L:317:LEU:N	2:L:317:LEU:HD13	2.24	0.52
2:L:451:ILE:O	2:L:452:VAL:C	2.53	0.52
3:M:7:TYR:O	3:M:67:LEU:HD12	2.09	0.52
3:M:277:ILE:N	3:M:418:TYR:OH	2.40	0.52
3:N:95:PHE:HA	3:N:141:LYS:HG2	1.91	0.52
3:O:7:TYR:O	3:O:67:LEU:HD12	2.09	0.52
4:Q:112:PHE:O	4:Q:113:ILE:C	2.52	0.52
3:R:273:VAL:O	3:R:274:LYS:C	2.51	0.52
3:R:409:VAL:CG1	3:R:410:ARG:H	2.21	0.52
4:S:40:LEU:O	4:S:40:LEU:HD12	2.09	0.52
4:S:85:HIS:O	4:S:88:VAL:CG2	2.58	0.52
3:V:42:GLU:HB3	3:V:302:LYS:HB2	1.91	0.52
4:W:14:LEU:CD1	4:W:16:LEU:H	2.22	0.52
1:A:466:ASP:O	1:A:467:TYR:CD1	2.53	0.52
1:A:526:ALA:O	1:A:529:ALA:HB3	2.09	0.52
1:A:533:LEU:HB3	1:A:537:PHE:CD1	2.45	0.52
2:B:149:HIS:CE1	2:B:187:ILE:HG23	2.44	0.52
1:C:201:MET:O	1:C:203:GLU:N	2.42	0.52
1:C:247:VAL:O	1:C:248:ARG:C	2.51	0.52
2:D:71:LEU:O	2:D:72:TYR:C	2.53	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:74:ILE:HG13	1:E:86:TYR:CE1	2.44	0.52
1:E:247:VAL:O	1:E:248:ARG:C	2.52	0.52
1:E:572:LYS:CG	1:E:573:TYR:CE1	2.92	0.52
2:F:449:ILE:O	2:F:450:TRP:C	2.53	0.52
2:F:451:ILE:O	2:F:452:VAL:C	2.53	0.52
1:G:130:GLY:O	1:G:163:HIS:HE1	1.93	0.52
2:H:17:GLU:HB3	2:H:18:LEU:HD22	1.92	0.52
2:H:555:ILE:CG2	2:H:556:GLU:H	2.23	0.52
1:I:36:SER:HA	1:I:39:ARG:CG	2.36	0.52
1:I:193:THR:OG1	1:I:194:SER:N	2.43	0.52
1:I:572:LYS:HG3	1:I:573:TYR:CE1	2.44	0.52
2:J:335:LYS:HB3	2:J:369:PHE:CE1	2.44	0.52
2:J:566:TYR:CE2	2:J:578:PRO:HG2	2.44	0.52
1:K:67:GLN:NE2	1:K:93:LEU:HD23	2.17	0.52
1:K:113:HIS:HD2	1:K:115:THR:H	1.56	0.52
1:K:529:ALA:O	1:K:530:ILE:C	2.50	0.52
2:L:566:TYR:CE2	2:L:578:PRO:HG2	2.44	0.52
3:M:208:PRO:HG3	3:M:399:GLU:OE1	2.09	0.52
3:M:255:PHE:N	3:M:255:PHE:CD2	2.78	0.52
3:N:28:SER:O	3:N:30:VAL:N	2.43	0.52
3:N:42:GLU:HB3	3:N:302:LYS:HB2	1.91	0.52
3:N:100:GLU:OE1	3:N:104:ARG:NH2	2.42	0.52
3:O:409:VAL:CG1	3:O:410:ARG:H	2.21	0.52
3:P:380:PHE:C	3:P:380:PHE:CD1	2.87	0.52
4:Q:40:LEU:HD12	4:Q:40:LEU:C	2.34	0.52
3:R:239:HIS:O	3:R:240:GLN:C	2.53	0.52
1:A:10:LEU:O	1:A:13:THR:N	2.40	0.52
1:A:202:CYS:O	1:A:203:GLU:OE2	2.28	0.52
1:A:250:LEU:O	1:A:251:ARG:C	2.53	0.52
1:A:254:ARG:HA	1:A:295:THR:HG23	1.92	0.52
1:A:472:LEU:O	1:A:473:VAL:C	2.51	0.52
2:B:34:VAL:O	2:B:37:VAL:N	2.43	0.52
2:B:107:VAL:HG12	2:B:144:CYS:SG	2.50	0.52
2:B:141:ALA:O	2:B:145:VAL:HG23	2.10	0.52
2:B:241:CYS:C	2:B:243:ARG:H	2.17	0.52
2:B:358:LEU:O	2:B:361:TYR:HB2	2.09	0.52
1:C:572:LYS:CG	1:C:573:TYR:CE1	2.92	0.52
2:D:34:VAL:O	2:D:37:VAL:N	2.43	0.52
2:D:358:LEU:O	2:D:361:TYR:HB2	2.09	0.52
1:E:202:CYS:O	1:E:203:GLU:OE2	2.28	0.52
1:E:541:VAL:HG12	1:E:541:VAL:O	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:13:GLY:O	2:F:14:GLU:C	2.53	0.52
1:G:13:THR:O	1:G:26:MET:HE1	2.09	0.52
1:G:152:TYR:HD1	1:G:155:LYS:HE2	1.75	0.52
1:G:250:LEU:O	1:G:251:ARG:C	2.53	0.52
1:G:368:LEU:HD23	1:G:369:SER:N	2.24	0.52
1:G:401:ALA:O	1:G:402:SER:C	2.52	0.52
1:G:473:VAL:O	1:G:474:GLN:C	2.52	0.52
2:H:241:CYS:C	2:H:243:ARG:H	2.17	0.52
1:I:249:ILE:O	1:I:250:LEU:C	2.51	0.52
2:J:34:VAL:O	2:J:37:VAL:N	2.43	0.52
2:J:72:TYR:O	2:J:73:LEU:C	2.51	0.52
1:K:68:LEU:CG	1:K:69:GLU:H	2.07	0.52
1:K:116:GLN:HG2	1:K:117:PHE:CD1	2.44	0.52
2:L:141:ALA:O	2:L:145:VAL:HG23	2.10	0.52
2:L:241:CYS:C	2:L:243:ARG:H	2.17	0.52
2:L:573:VAL:HG13	2:L:574:TYR:N	2.23	0.52
3:N:112:GLU:OE1	3:N:136:THR:N	2.40	0.52
3:N:343:TRP:CZ3	3:N:356:MET:HB2	2.44	0.52
3:O:131:LEU:C	3:O:133:GLU:N	2.68	0.52
3:R:100:GLU:O	3:R:101:GLU:C	2.53	0.52
4:T:85:HIS:C	4:T:88:VAL:HG22	2.34	0.52
4:X:87:TYR:O	4:X:88:VAL:C	2.51	0.52
1:A:232:SER:O	1:A:234:GLU:N	2.43	0.52
1:A:271:LEU:O	1:A:272:ALA:C	2.52	0.52
1:A:572:LYS:CG	1:A:573:TYR:CE1	2.92	0.52
2:B:73:LEU:O	2:B:74:MET:C	2.53	0.52
2:B:97:ASP:OD1	2:B:98:PRO:HD2	2.09	0.52
2:B:292:LEU:C	2:B:294:ALA:N	2.61	0.52
2:B:304:ARG:CG	2:B:573:VAL:HA	2.40	0.52
2:B:464:GLU:HA	2:B:467:GLU:HB3	1.92	0.52
1:C:116:GLN:HG2	1:C:117:PHE:CD1	2.44	0.52
1:C:353:CYS:O	1:C:356:ASP:N	2.39	0.52
2:D:57:CYS:O	2:D:65:LEU:HD21	2.09	0.52
2:D:83:MET:O	2:D:84:ALA:C	2.52	0.52
2:D:226:LEU:N	2:D:226:LEU:HD23	2.23	0.52
2:D:414:ILE:O	2:D:415:LYS:C	2.53	0.52
2:D:533:ASP:O	2:D:534:PRO:C	2.52	0.52
1:E:425:VAL:CG1	1:E:426:LEU:N	2.73	0.52
1:E:474:GLN:O	1:E:475:VAL:C	2.53	0.52
2:F:339:LEU:O	2:F:340:ASP:C	2.53	0.52
2:F:414:ILE:O	2:F:415:LYS:C	2.53	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:67:GLN:NE2	1:G:93:LEU:HD23	2.17	0.52
1:G:232:SER:O	1:G:234:GLU:N	2.43	0.52
1:G:254:ARG:HA	1:G:295:THR:HG23	1.92	0.52
1:G:572:LYS:HG3	1:G:573:TYR:CE1	2.44	0.52
2:H:190:SER:C	2:H:192:PRO:HD2	2.34	0.52
2:J:61:ASP:O	2:J:62:ASN:C	2.52	0.52
2:J:241:CYS:C	2:J:243:ARG:H	2.17	0.52
2:J:264:MET:HE2	2:J:564:ILE:CG2	2.40	0.52
2:J:317:LEU:N	2:J:317:LEU:HD13	2.24	0.52
1:K:138:LEU:O	1:K:139:ALA:C	2.52	0.52
1:K:152:TYR:HD1	1:K:155:LYS:HE2	1.75	0.52
1:K:193:THR:OG1	1:K:194:SER:N	2.43	0.52
1:K:532:LYS:CB	1:K:536:ARG:HH11	2.23	0.52
2:L:304:ARG:CG	2:L:573:VAL:HA	2.40	0.52
2:L:339:LEU:O	2:L:340:ASP:C	2.53	0.52
2:L:343:ILE:C	2:L:345:LEU:N	2.59	0.52
2:L:455:TYR:N	2:L:455:TYR:CD1	2.77	0.52
2:L:475:ASP:O	2:L:476:GLU:CG	2.58	0.52
2:L:555:ILE:CG2	2:L:556:GLU:H	2.23	0.52
3:M:42:GLU:HB3	3:M:302:LYS:HB2	1.91	0.52
3:N:107:PHE:O	3:N:108:VAL:C	2.52	0.52
3:O:42:GLU:HB3	3:O:302:LYS:HB2	1.91	0.52
3:O:255:PHE:CD2	3:O:255:PHE:N	2.78	0.52
3:R:96:LYS:HG3	3:R:97:GLU:HG3	1.92	0.52
3:R:245:SER:HB2	3:R:252:THR:HB	1.88	0.52
4:S:135:ILE:HG23	4:S:136:GLU:N	2.24	0.52
4:U:86:ARG:O	4:U:87:TYR:C	2.52	0.52
4:X:85:HIS:O	4:X:88:VAL:CG2	2.58	0.52
1:A:289:LEU:HA	1:A:292:THR:OG1	2.10	0.52
2:B:39:ALA:C	2:B:41:MET:H	2.18	0.52
2:B:493:LEU:HD13	2:B:538:LYS:HA	1.90	0.52
1:C:130:GLY:O	1:C:163:HIS:HE1	1.93	0.52
1:C:138:LEU:O	1:C:139:ALA:C	2.52	0.52
1:C:205:SER:HB2	1:C:206:PRO:HD3	1.91	0.52
1:C:526:ALA:O	1:C:529:ALA:HB3	2.09	0.52
2:D:61:ASP:O	2:D:62:ASN:C	2.52	0.52
1:E:130:GLY:O	1:E:163:HIS:HE1	1.93	0.52
1:E:316:PHE:O	1:E:317:LEU:C	2.50	0.52
2:F:34:VAL:O	2:F:37:VAL:N	2.43	0.52
2:F:141:ALA:O	2:F:145:VAL:HG23	2.10	0.52
1:G:353:CYS:O	1:G:356:ASP:N	2.39	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:364:ARG:HG2	1:G:364:ARG:NH1	2.25	0.52
2:H:339:LEU:O	2:H:340:ASP:C	2.53	0.52
2:H:445:ARG:O	2:H:448:MET:HB3	2.09	0.52
2:H:464:GLU:HA	2:H:467:GLU:HB3	1.92	0.52
2:H:466:LEU:HD23	2:H:488:ILE:HD13	1.92	0.52
2:H:566:TYR:CE2	2:H:578:PRO:HG2	2.44	0.52
1:I:138:LEU:O	1:I:139:ALA:C	2.52	0.52
1:I:152:TYR:OH	4:X:116:GLU:OE1	2.27	0.52
1:I:472:LEU:O	1:I:473:VAL:C	2.51	0.52
2:J:65:LEU:O	2:J:69:VAL:HG23	2.09	0.52
2:J:405:TYR:O	2:J:406:VAL:C	2.53	0.52
2:J:455:TYR:N	2:J:455:TYR:CD1	2.77	0.52
2:J:475:ASP:O	2:J:476:GLU:CG	2.57	0.52
1:K:55:TYR:C	1:K:55:TYR:CD1	2.87	0.52
1:K:343:VAL:HG23	1:K:344:GLN:N	2.24	0.52
2:L:12:LYS:CG	2:L:13:GLY:N	2.73	0.52
2:L:13:GLY:O	2:L:14:GLU:C	2.53	0.52
2:L:34:VAL:O	2:L:37:VAL:N	2.43	0.52
2:L:107:VAL:HG12	2:L:144:CYS:SG	2.49	0.52
2:L:335:LYS:O	2:L:336:LEU:C	2.50	0.52
2:L:424:LYS:HB3	2:L:425:TYR:CE1	2.45	0.52
3:O:144:THR:CG2	3:O:145:GLY:N	2.73	0.52
4:U:14:LEU:CD1	4:U:16:LEU:H	2.22	0.52
4:W:40:LEU:O	4:W:40:LEU:HD12	2.09	0.52
4:W:85:HIS:O	4:W:88:VAL:CG2	2.58	0.52
1:A:140:GLY:O	1:A:141:GLU:C	2.53	0.52
1:A:455:THR:HG22	1:A:459:LEU:CD1	2.40	0.52
2:B:88:VAL:O	2:B:89:ASN:C	2.53	0.52
2:B:424:LYS:HB3	2:B:425:TYR:CE1	2.45	0.52
2:B:449:ILE:O	2:B:450:TRP:C	2.52	0.52
1:C:250:LEU:O	1:C:251:ARG:C	2.53	0.52
1:C:532:LYS:CB	1:C:536:ARG:HH11	2.23	0.52
2:D:56:ASN:N	2:D:56:ASN:HD22	2.06	0.52
2:D:463:ASP:O	2:D:464:GLU:C	2.51	0.52
2:D:555:ILE:CG2	2:D:556:GLU:H	2.23	0.52
1:E:55:TYR:C	1:E:55:TYR:CD1	2.87	0.52
1:E:333:LEU:HD12	1:E:333:LEU:N	2.25	0.52
1:E:522:THR:O	1:E:523:ARG:C	2.53	0.52
2:F:12:LYS:CG	2:F:13:GLY:N	2.72	0.52
2:F:499:THR:O	2:F:500:GLN:C	2.53	0.52
1:G:55:TYR:C	1:G:55:TYR:CD1	2.87	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:147:LYS:HA	1:G:147:LYS:CE	2.39	0.52
1:G:151:SER:O	1:G:152:TYR:C	2.53	0.52
1:G:254:ARG:HG2	1:G:255:ILE:N	2.24	0.52
1:G:331:SER:O	1:G:332:LEU:C	2.52	0.52
1:G:533:LEU:HB3	1:G:537:PHE:CD1	2.45	0.52
2:H:83:MET:O	2:H:84:ALA:C	2.52	0.52
2:H:148:LEU:H	2:H:148:LEU:CD1	2.22	0.52
2:H:426:GLU:O	2:H:429:ILE:N	2.28	0.52
2:H:487:ALA:O	2:H:490:LYS:HB2	2.10	0.52
2:J:489:VAL:O	2:J:490:LYS:C	2.53	0.52
1:K:473:VAL:O	1:K:474:GLN:C	2.52	0.52
1:K:572:LYS:HG3	1:K:573:TYR:CE1	2.45	0.52
2:L:5:LYS:NZ	3:P:261:GLU:OE2	2.42	0.52
2:L:50:LEU:O	2:L:51:PHE:C	2.51	0.52
2:L:148:LEU:HA	2:L:151:ILE:HD11	1.92	0.52
2:L:337:GLU:O	2:L:338:LYS:C	2.53	0.52
2:L:405:TYR:O	2:L:406:VAL:C	2.53	0.52
2:L:480:VAL:HG13	2:L:481:GLN:N	2.24	0.52
2:L:507:LEU:O	2:L:508:SER:C	2.53	0.52
3:P:96:LYS:HG3	3:P:97:GLU:HG3	1.92	0.52
3:P:278:TRP:O	3:P:279:ILE:CG1	2.58	0.52
4:T:90:LEU:N	4:T:90:LEU:HD22	2.25	0.52
4:U:135:ILE:HG23	4:U:136:GLU:N	2.24	0.52
3:V:278:TRP:O	3:V:279:ILE:CG1	2.58	0.52
4:X:135:ILE:HG23	4:X:136:GLU:N	2.24	0.52
1:A:146:LEU:HD23	1:A:146:LEU:C	2.33	0.52
1:A:205:SER:HB2	1:A:206:PRO:HD3	1.91	0.52
1:A:368:LEU:HG	1:A:372:LEU:HD11	1.91	0.52
1:A:473:VAL:O	1:A:474:GLN:C	2.52	0.52
1:A:572:LYS:HG3	1:A:573:TYR:CE1	2.44	0.52
2:B:491:LEU:CD1	2:B:492:PHE:N	2.66	0.52
1:C:289:LEU:HA	1:C:292:THR:OG1	2.10	0.52
1:C:364:ARG:HG2	1:C:364:ARG:NH1	2.25	0.52
1:C:368:LEU:HG	1:C:372:LEU:HD11	1.91	0.52
1:C:401:ALA:O	1:C:402:SER:C	2.52	0.52
2:D:88:VAL:O	2:D:89:ASN:C	2.53	0.52
2:D:243:ARG:O	2:D:246:PRO:HD2	2.10	0.52
2:D:487:ALA:O	2:D:490:LYS:HB2	2.10	0.52
1:E:113:HIS:HD2	1:E:115:THR:H	1.56	0.52
1:E:140:GLY:O	1:E:141:GLU:C	2.53	0.52
1:E:533:LEU:O	1:E:536:ARG:N	2.40	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:107:VAL:HG12	2:F:144:CYS:SG	2.49	0.52
2:F:264:MET:HE2	2:F:564:ILE:CG2	2.40	0.52
2:F:292:LEU:C	2:F:294:ALA:N	2.61	0.52
1:G:212:PHE:O	1:G:216:VAL:CG2	2.55	0.52
1:G:522:THR:O	1:G:523:ARG:C	2.53	0.52
2:H:73:LEU:O	2:H:74:MET:C	2.53	0.52
2:H:104:ALA:CB	2:H:136:TYR:HD2	2.20	0.52
2:H:499:THR:O	2:H:500:GLN:C	2.53	0.52
1:I:232:SER:O	1:I:234:GLU:N	2.43	0.52
1:I:239:GLY:C	1:I:240:ILE:HG13	2.32	0.52
2:J:424:LYS:HB3	2:J:425:TYR:CE1	2.45	0.52
2:J:499:THR:O	2:J:500:GLN:C	2.53	0.52
1:K:36:SER:HA	1:K:39:ARG:CG	2.36	0.52
1:K:368:LEU:HG	1:K:372:LEU:HD11	1.91	0.52
1:K:562:ARG:O	1:K:565:GLU:HB2	2.10	0.52
3:M:28:SER:O	3:M:30:VAL:N	2.43	0.52
3:M:95:PHE:HA	3:M:141:LYS:HG2	1.91	0.52
3:M:239:HIS:O	3:M:240:GLN:C	2.53	0.52
3:M:254:SER:O	3:M:255:PHE:HB3	2.10	0.52
3:M:278:TRP:O	3:M:279:ILE:CG1	2.58	0.52
3:N:233:LEU:CD1	3:N:268:ARG:O	2.56	0.52
3:N:255:PHE:N	3:N:255:PHE:CD2	2.78	0.52
3:N:278:TRP:O	3:N:279:ILE:CG1	2.58	0.52
3:O:28:SER:O	3:O:30:VAL:N	2.43	0.52
3:O:100:GLU:O	3:O:101:GLU:C	2.53	0.52
3:O:239:HIS:O	3:O:240:GLN:C	2.53	0.52
3:P:118:MET:HB2	3:P:123:PRO:CA	2.37	0.52
3:P:343:TRP:CZ3	3:P:356:MET:HB2	2.44	0.52
4:Q:30:LYS:HZ3	4:Q:33:ARG:NH2	2.08	0.52
4:Q:33:ARG:CG	4:Q:34:GLU:N	2.73	0.52
4:Q:90:LEU:HD22	4:Q:90:LEU:N	2.25	0.52
3:R:278:TRP:O	3:R:279:ILE:CG1	2.58	0.52
3:R:408:TRP:N	3:R:408:TRP:CD1	2.74	0.52
4:T:85:HIS:O	4:T:88:VAL:CG2	2.58	0.52
4:U:33:ARG:CG	4:U:34:GLU:N	2.73	0.52
3:V:96:LYS:HG3	3:V:97:GLU:HG3	1.92	0.52
4:X:90:LEU:N	4:X:90:LEU:HD22	2.25	0.52
1:A:236:ASP:HA	1:A:240:ILE:O	2.09	0.51
1:A:347:ARG:O	1:A:348:SER:C	2.54	0.51
1:A:474:GLN:O	1:A:475:VAL:C	2.53	0.51
2:B:13:GLY:O	2:B:14:GLU:C	2.53	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:95:CYS:HA	2:B:103:ARG:HB2	1.93	0.51
2:B:186:GLU:HB2	3:M:122:TYR:OH	2.11	0.51
2:B:534:PRO:O	2:B:535:VAL:C	2.53	0.51
1:C:425:VAL:CG1	1:C:426:LEU:N	2.73	0.51
2:D:32:GLU:O	2:D:33:ALA:C	2.53	0.51
1:E:151:SER:O	1:E:152:TYR:C	2.53	0.51
1:E:271:LEU:O	1:E:272:ALA:C	2.52	0.51
1:E:455:THR:HG22	1:E:459:LEU:CD1	2.40	0.51
1:E:526:ALA:O	1:E:529:ALA:HB3	2.09	0.51
1:E:532:LYS:CB	1:E:536:ARG:HH11	2.23	0.51
2:F:424:LYS:HB3	2:F:425:TYR:CE1	2.45	0.51
2:F:487:ALA:O	2:F:490:LYS:HB2	2.10	0.51
1:G:425:VAL:CG1	1:G:426:LEU:N	2.73	0.51
1:G:474:GLN:O	1:G:475:VAL:C	2.53	0.51
2:H:65:LEU:O	2:H:69:VAL:HG23	2.09	0.51
2:H:337:GLU:O	2:H:338:LYS:C	2.53	0.51
2:H:510:ALA:CB	2:H:519:LEU:HD11	2.34	0.51
1:I:123:LEU:O	1:I:124:CYS:C	2.54	0.51
1:I:140:GLY:O	1:I:141:GLU:C	2.53	0.51
1:I:289:LEU:HA	1:I:292:THR:OG1	2.10	0.51
1:I:401:ALA:O	1:I:402:SER:C	2.52	0.51
1:I:509:LEU:O	1:I:512:VAL:HB	2.11	0.51
1:I:582:GLU:HG3	1:I:582:GLU:O	2.10	0.51
2:J:57:CYS:O	2:J:65:LEU:HD21	2.09	0.51
2:J:88:VAL:O	2:J:89:ASN:C	2.53	0.51
2:J:304:ARG:CG	2:J:573:VAL:HA	2.40	0.51
1:K:455:THR:HG22	1:K:459:LEU:CD1	2.40	0.51
2:L:88:VAL:O	2:L:89:ASN:C	2.53	0.51
2:L:257:LEU:CD1	2:L:567:ILE:HG22	2.39	0.51
2:L:466:LEU:HD23	2:L:488:ILE:HD13	1.92	0.51
2:L:487:ALA:O	2:L:490:LYS:HB2	2.10	0.51
2:L:489:VAL:O	2:L:490:LYS:C	2.53	0.51
3:N:56:ARG:HG3	3:N:56:ARG:NH1	2.21	0.51
3:N:61:LYS:HD2	3:N:66:TYR:CE2	2.45	0.51
3:N:409:VAL:CG1	3:N:410:ARG:H	2.21	0.51
3:O:119:ASP:O	3:O:121:GLY:N	2.43	0.51
3:O:245:SER:HB2	3:O:252:THR:HB	1.88	0.51
3:O:278:TRP:O	3:O:279:ILE:CG1	2.58	0.51
4:Q:35:LEU:O	4:Q:36:MET:C	2.53	0.51
4:S:33:ARG:CG	4:S:34:GLU:N	2.73	0.51
4:U:112:PHE:O	4:U:113:ILE:C	2.52	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:V:239:HIS:O	3:V:240:GLN:C	2.53	0.51
1:A:130:GLY:O	1:A:163:HIS:HE1	1.93	0.51
1:A:250:LEU:HA	1:A:253:LEU:CD1	2.35	0.51
1:A:425:VAL:CG1	1:A:426:LEU:N	2.73	0.51
1:A:522:THR:O	1:A:523:ARG:C	2.53	0.51
2:B:7:PHE:CD2	4:S:99:CYS:HA	2.45	0.51
2:B:124:GLU:HB2	2:B:125:PRO:CD	2.36	0.51
2:B:190:SER:C	2:B:192:PRO:HD2	2.34	0.51
2:B:243:ARG:O	2:B:246:PRO:HD2	2.10	0.51
2:B:445:ARG:O	2:B:448:MET:HB3	2.09	0.51
2:B:480:VAL:HG13	2:B:481:GLN:N	2.24	0.51
1:C:333:LEU:HD12	1:C:333:LEU:N	2.26	0.51
2:D:17:GLU:HB3	2:D:18:LEU:HD22	1.92	0.51
2:D:73:LEU:O	2:D:74:MET:C	2.53	0.51
2:D:264:MET:HE2	2:D:564:ILE:CG2	2.40	0.51
2:D:517:PRO:O	2:D:518:ASP:C	2.52	0.51
1:E:79:PHE:O	1:E:80:THR:C	2.54	0.51
1:E:232:SER:O	1:E:234:GLU:N	2.43	0.51
1:E:366:MET:O	1:E:369:SER:OG	2.24	0.51
1:E:430:GLY:C	1:E:432:TYR:H	2.19	0.51
2:F:97:ASP:OD1	2:F:98:PRO:HD2	2.09	0.51
2:F:186:GLU:HB2	3:O:122:TYR:OH	2.11	0.51
1:G:347:ARG:O	1:G:348:SER:C	2.54	0.51
1:G:430:GLY:C	1:G:432:TYR:H	2.18	0.51
2:H:39:ALA:C	2:H:41:MET:H	2.18	0.51
2:H:144:CYS:C	2:H:148:LEU:HD13	2.36	0.51
2:H:186:GLU:HB2	3:P:122:TYR:OH	2.10	0.51
2:H:243:ARG:O	2:H:246:PRO:HD2	2.10	0.51
2:H:264:MET:HE2	2:H:564:ILE:CG2	2.40	0.51
2:H:395:LEU:O	2:H:396:LEU:C	2.53	0.51
1:I:202:CYS:O	1:I:203:GLU:OE2	2.28	0.51
1:I:386:LEU:O	1:I:387:TYR:C	2.54	0.51
1:I:474:GLN:O	1:I:475:VAL:C	2.53	0.51
1:K:123:LEU:O	1:K:124:CYS:C	2.54	0.51
1:K:430:GLY:C	1:K:432:TYR:H	2.18	0.51
1:K:582:GLU:O	1:K:582:GLU:HG3	2.10	0.51
2:L:499:THR:O	2:L:500:GLN:C	2.53	0.51
3:M:194:ILE:HG13	3:M:194:ILE:O	2.10	0.51
3:N:239:HIS:O	3:N:240:GLN:C	2.53	0.51
3:O:273:VAL:O	3:O:274:LYS:C	2.51	0.51
3:P:61:LYS:HD2	3:P:66:TYR:CE2	2.46	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:P:100:GLU:O	3:P:101:GLU:C	2.53	0.51
3:R:7:TYR:O	3:R:67:LEU:HD12	2.09	0.51
3:R:61:LYS:HD2	3:R:66:TYR:CE2	2.46	0.51
3:R:118:MET:HG3	3:R:119:ASP:N	2.25	0.51
3:R:173:LEU:C	3:R:173:LEU:CD2	2.76	0.51
4:S:30:LYS:HZ3	4:S:33:ARG:NH2	2.09	0.51
4:S:112:PHE:O	4:S:113:ILE:C	2.52	0.51
4:T:35:LEU:O	4:T:36:MET:C	2.53	0.51
4:U:135:ILE:CG2	4:U:136:GLU:N	2.74	0.51
3:V:100:GLU:O	3:V:101:GLU:C	2.53	0.51
3:V:131:LEU:C	3:V:133:GLU:N	2.68	0.51
3:V:254:SER:O	3:V:255:PHE:HB3	2.10	0.51
3:V:255:PHE:N	3:V:255:PHE:CD2	2.78	0.51
4:X:135:ILE:CG2	4:X:136:GLU:N	2.73	0.51
1:A:405:PHE:O	1:A:406:LEU:C	2.54	0.51
1:A:509:LEU:O	1:A:512:VAL:HB	2.11	0.51
2:B:339:LEU:O	2:B:340:ASP:C	2.53	0.51
2:B:465:LEU:O	2:B:466:LEU:C	2.54	0.51
1:C:202:CYS:O	1:C:203:GLU:OE2	2.28	0.51
1:C:347:ARG:O	1:C:348:SER:C	2.54	0.51
1:C:366:MET:O	1:C:369:SER:OG	2.24	0.51
1:C:583:ARG:HB2	2:D:528:ARG:HH12	1.74	0.51
2:D:13:GLY:O	2:D:14:GLU:C	2.53	0.51
2:D:65:LEU:O	2:D:69:VAL:HG23	2.09	0.51
2:D:499:THR:O	2:D:500:GLN:C	2.53	0.51
2:D:507:LEU:O	2:D:508:SER:C	2.53	0.51
2:D:519:LEU:HD13	2:D:519:LEU:C	2.36	0.51
1:E:123:LEU:O	1:E:124:CYS:C	2.54	0.51
1:E:201:MET:O	1:E:203:GLU:N	2.42	0.51
1:E:582:GLU:HG3	1:E:582:GLU:O	2.11	0.51
2:F:464:GLU:HA	2:F:467:GLU:HB3	1.92	0.51
2:F:466:LEU:HD23	2:F:488:ILE:HD13	1.92	0.51
2:F:534:PRO:O	2:F:535:VAL:C	2.53	0.51
1:G:138:LEU:O	1:G:139:ALA:C	2.52	0.51
1:G:202:CYS:O	1:G:203:GLU:OE2	2.28	0.51
1:G:215:LEU:O	1:G:216:VAL:C	2.54	0.51
1:G:526:ALA:O	1:G:529:ALA:HB3	2.09	0.51
2:H:72:TYR:O	2:H:73:LEU:C	2.52	0.51
2:H:88:VAL:O	2:H:89:ASN:C	2.53	0.51
2:H:141:ALA:O	2:H:145:VAL:HG23	2.10	0.51
2:H:414:ILE:O	2:H:415:LYS:C	2.53	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:480:VAL:HG13	2:H:481:GLN:N	2.24	0.51
2:H:569:THR:HG23	3:P:74:ASN:CG	2.35	0.51
1:I:152:TYR:HD1	1:I:155:LYS:HE2	1.75	0.51
1:I:254:ARG:HG2	1:I:255:ILE:N	2.24	0.51
1:I:347:ARG:O	1:I:348:SER:C	2.54	0.51
1:I:430:GLY:C	1:I:432:TYR:H	2.19	0.51
1:I:455:THR:HG22	1:I:459:LEU:CD1	2.40	0.51
2:J:32:GLU:O	2:J:33:ALA:C	2.53	0.51
2:J:95:CYS:HA	2:J:103:ARG:HB2	1.93	0.51
2:J:141:ALA:O	2:J:145:VAL:HG23	2.10	0.51
2:J:451:ILE:O	2:J:452:VAL:C	2.53	0.51
2:J:507:LEU:O	2:J:508:SER:C	2.53	0.51
2:J:519:LEU:C	2:J:519:LEU:HD13	2.36	0.51
2:J:533:ASP:O	2:J:534:PRO:C	2.52	0.51
1:K:130:GLY:O	1:K:163:HIS:HE1	1.93	0.51
1:K:202:CYS:O	1:K:203:GLU:OE2	2.28	0.51
2:L:35:LYS:O	2:L:38:ILE:HG12	2.09	0.51
2:L:452:VAL:CG1	2:L:453:GLY:H	2.23	0.51
3:M:77:VAL:O	3:M:79:LEU:N	2.44	0.51
3:N:100:GLU:O	3:N:101:GLU:C	2.53	0.51
3:O:61:LYS:HD2	3:O:66:TYR:CE2	2.46	0.51
3:P:131:LEU:C	3:P:133:GLU:N	2.68	0.51
3:P:254:SER:O	3:P:255:PHE:HB3	2.10	0.51
3:P:409:VAL:CG1	3:P:410:ARG:H	2.21	0.51
4:Q:113:ILE:HG22	4:Q:114:LEU:N	2.26	0.51
3:R:42:GLU:HB3	3:R:302:LYS:HB2	1.91	0.51
3:R:77:VAL:O	3:R:79:LEU:N	2.44	0.51
3:R:95:PHE:HA	3:R:141:LYS:HG2	1.91	0.51
3:R:119:ASP:O	3:R:121:GLY:N	2.43	0.51
3:R:380:PHE:C	3:R:380:PHE:CD1	2.87	0.51
4:S:40:LEU:HD12	4:S:40:LEU:C	2.34	0.51
4:S:80:THR:O	4:S:81:LEU:C	2.54	0.51
4:T:50:LEU:HD23	4:T:50:LEU:C	2.34	0.51
4:U:90:LEU:HD22	4:U:90:LEU:N	2.25	0.51
4:W:80:THR:O	4:W:81:LEU:C	2.54	0.51
4:X:22:ALA:O	4:X:23:THR:OG1	2.21	0.51
4:X:35:LEU:O	4:X:36:MET:C	2.54	0.51
1:A:10:LEU:O	1:A:11:ILE:C	2.53	0.51
1:A:116:GLN:HG2	1:A:117:PHE:CD1	2.44	0.51
1:A:478:TRP:CZ2	1:A:482:GLU:CG	2.92	0.51
2:B:86:MET:CE	3:N:237:LYS:HB3	2.39	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:200:LYS:HB2	2:B:203:SER:CB	2.41	0.51
2:B:357:GLU:O	2:B:358:LEU:C	2.49	0.51
2:B:451:ILE:O	2:B:452:VAL:C	2.53	0.51
2:B:510:ALA:CB	2:B:519:LEU:HD11	2.34	0.51
1:C:10:LEU:O	1:C:13:THR:N	2.40	0.51
1:C:343:VAL:HG23	1:C:344:GLN:N	2.24	0.51
1:C:533:LEU:HB3	1:C:537:PHE:CD1	2.45	0.51
2:D:35:LYS:O	2:D:38:ILE:HG12	2.10	0.51
1:E:116:GLN:HG2	1:E:117:PHE:CD1	2.44	0.51
1:E:364:ARG:HG2	1:E:364:ARG:NH1	2.25	0.51
2:F:95:CYS:HA	2:F:103:ARG:HB2	1.93	0.51
2:F:104:ALA:CB	2:F:136:TYR:HD2	2.20	0.51
2:F:533:ASP:O	2:F:534:PRO:C	2.52	0.51
1:G:83:ARG:HA	1:G:121:LEU:CD1	2.41	0.51
1:G:201:MET:O	1:G:203:GLU:N	2.42	0.51
1:G:223:LEU:O	1:G:224:LYS:C	2.54	0.51
1:G:333:LEU:HD12	1:G:333:LEU:N	2.26	0.51
2:H:566:TYR:HD1	2:H:566:TYR:H	1.58	0.51
1:I:151:SER:O	1:I:152:TYR:C	2.53	0.51
1:I:405:PHE:O	1:I:406:LEU:C	2.54	0.51
1:I:476:ALA:O	1:I:478:TRP:N	2.44	0.51
1:I:526:ALA:O	1:I:529:ALA:HB3	2.09	0.51
1:I:533:LEU:HB3	1:I:537:PHE:CD1	2.45	0.51
1:I:541:VAL:HG12	1:I:541:VAL:O	2.10	0.51
2:J:39:ALA:C	2:J:41:MET:H	2.18	0.51
2:J:73:LEU:O	2:J:74:MET:C	2.53	0.51
1:K:10:LEU:O	1:K:11:ILE:C	2.53	0.51
1:K:541:VAL:O	1:K:541:VAL:HG12	2.10	0.51
2:L:32:GLU:O	2:L:33:ALA:C	2.53	0.51
2:L:216:GLU:HB2	2:L:217:TRP:HE3	1.67	0.51
3:M:61:LYS:HD2	3:M:66:TYR:CE2	2.46	0.51
3:M:380:PHE:CD1	3:M:380:PHE:C	2.87	0.51
3:M:380:PHE:CD1	3:M:380:PHE:N	2.76	0.51
3:O:194:ILE:HG13	3:O:194:ILE:O	2.10	0.51
3:P:107:PHE:O	3:P:108:VAL:C	2.52	0.51
3:P:119:ASP:O	3:P:121:GLY:N	2.44	0.51
3:P:194:ILE:HG13	3:P:194:ILE:O	2.10	0.51
4:S:62:TYR:CE2	4:S:88:VAL:HG11	2.46	0.51
4:T:33:ARG:CG	4:T:34:GLU:N	2.73	0.51
4:U:62:TYR:CE2	4:U:88:VAL:HG11	2.46	0.51
3:V:119:ASP:O	3:V:121:GLY:N	2.43	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:W:90:LEU:N	4:W:90:LEU:HD22	2.25	0.51
1:A:79:PHE:O	1:A:80:THR:C	2.54	0.51
1:A:123:LEU:O	1:A:124:CYS:C	2.54	0.51
1:A:152:TYR:HD1	1:A:155:LYS:HE2	1.75	0.51
1:A:532:LYS:CB	1:A:536:ARG:HH11	2.23	0.51
2:B:32:GLU:O	2:B:33:ALA:C	2.53	0.51
2:B:264:MET:HE2	2:B:564:ILE:CG2	2.40	0.51
2:B:337:GLU:O	2:B:338:LYS:C	2.53	0.51
2:B:426:GLU:O	2:B:429:ILE:N	2.28	0.51
1:C:223:LEU:O	1:C:224:LYS:C	2.54	0.51
1:C:582:GLU:O	1:C:582:GLU:HG3	2.10	0.51
2:D:451:ILE:O	2:D:452:VAL:C	2.53	0.51
1:E:23:GLU:O	1:E:24:ARG:C	2.54	0.51
1:E:310:ILE:C	1:E:312:ILE:N	2.68	0.51
1:E:478:TRP:CZ2	1:E:482:GLU:CG	2.92	0.51
1:E:509:LEU:O	1:E:512:VAL:HB	2.11	0.51
2:F:17:GLU:HB3	2:F:18:LEU:HD22	1.92	0.51
2:F:75:ASN:HD22	2:F:75:ASN:N	2.08	0.51
2:F:88:VAL:O	2:F:89:ASN:C	2.53	0.51
1:G:5:ILE:HB	1:G:52:LYS:HZ3	1.76	0.51
1:G:274:VAL:HG11	1:G:292:THR:CG2	2.32	0.51
1:G:423:MET:O	1:G:426:LEU:HB2	2.11	0.51
1:G:541:VAL:O	1:G:541:VAL:HG12	2.10	0.51
2:H:455:TYR:N	2:H:455:TYR:CD1	2.77	0.51
1:I:5:ILE:CG2	1:I:9:GLU:HG3	2.41	0.51
1:I:205:SER:HB2	1:I:206:PRO:HD3	1.91	0.51
2:J:13:GLY:O	2:J:14:GLU:C	2.53	0.51
2:J:394:THR:O	2:J:395:LEU:C	2.54	0.51
2:J:464:GLU:HA	2:J:467:GLU:HB3	1.92	0.51
1:K:205:SER:HB2	1:K:206:PRO:HD3	1.91	0.51
1:K:236:ASP:HA	1:K:240:ILE:O	2.09	0.51
1:K:347:ARG:O	1:K:348:SER:C	2.54	0.51
1:K:551:TYR:C	1:K:553:SER:N	2.68	0.51
2:L:16:PHE:HZ	3:P:416:GLY:HA3	1.75	0.51
2:L:71:LEU:O	2:L:72:TYR:C	2.53	0.51
3:M:118:MET:HG3	3:M:119:ASP:N	2.25	0.51
3:O:112:GLU:OE1	3:O:136:THR:N	2.39	0.51
3:P:239:HIS:O	3:P:240:GLN:C	2.53	0.51
4:Q:85:HIS:O	4:Q:88:VAL:CG2	2.58	0.51
3:R:131:LEU:C	3:R:133:GLU:N	2.68	0.51
3:R:180:ASN:O	3:R:181:LEU:HD23	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:R:254:SER:O	3:R:255:PHE:HB3	2.10	0.51
4:U:132:LEU:O	4:U:133:LYS:C	2.54	0.51
4:W:33:ARG:CG	4:W:34:GLU:N	2.74	0.51
4:W:113:ILE:HG22	4:W:114:LEU:N	2.26	0.51
4:X:20:TYR:HD2	4:X:121:GLY:H	1.52	0.51
1:A:23:GLU:O	1:A:24:ARG:C	2.54	0.51
1:A:476:ALA:O	1:A:478:TRP:N	2.44	0.51
2:B:17:GLU:HB3	2:B:18:LEU:HD22	1.92	0.51
2:B:65:LEU:O	2:B:69:VAL:HG23	2.09	0.51
2:B:75:ASN:N	2:B:75:ASN:HD22	2.08	0.51
2:B:144:CYS:C	2:B:148:LEU:HD13	2.36	0.51
2:B:452:VAL:CG1	2:B:453:GLY:H	2.24	0.51
2:B:487:ALA:O	2:B:490:LYS:HB2	2.10	0.51
1:C:134:MET:O	1:C:137:ASP:N	2.38	0.51
1:C:271:LEU:O	1:C:272:ALA:C	2.52	0.51
1:C:430:GLY:C	1:C:432:TYR:H	2.18	0.51
2:D:200:LYS:HB2	2:D:203:SER:CB	2.41	0.51
1:E:137:ASP:HB2	1:E:138:LEU:HD22	1.93	0.51
1:E:152:TYR:HD1	1:E:155:LYS:HE2	1.75	0.51
1:E:405:PHE:O	1:E:409:GLU:HG2	2.11	0.51
2:F:7:PHE:CD2	4:U:99:CYS:HA	2.45	0.51
2:F:61:ASP:O	2:F:62:ASN:C	2.52	0.51
2:F:65:LEU:O	2:F:69:VAL:HG23	2.09	0.51
2:F:104:ALA:O	2:F:107:VAL:N	2.43	0.51
2:F:144:CYS:C	2:F:148:LEU:HD13	2.36	0.51
2:F:200:LYS:HB2	2:F:203:SER:CB	2.41	0.51
2:F:262:VAL:HB	2:F:266:PHE:CE1	2.46	0.51
2:F:395:LEU:O	2:F:396:LEU:C	2.53	0.51
2:F:452:VAL:CG1	2:F:453:GLY:H	2.24	0.51
2:F:455:TYR:N	2:F:455:TYR:CD1	2.77	0.51
2:F:569:THR:HG23	3:O:74:ASN:CG	2.35	0.51
1:G:10:LEU:O	1:G:13:THR:N	2.40	0.51
1:G:123:LEU:O	1:G:124:CYS:C	2.54	0.51
1:G:271:LEU:O	1:G:272:ALA:C	2.52	0.51
2:H:7:PHE:CD2	4:Q:99:CYS:HA	2.45	0.51
2:H:95:CYS:HA	2:H:103:ARG:HB2	1.93	0.51
2:H:130:LEU:C	2:H:132:ASP:N	2.67	0.51
2:H:424:LYS:HB3	2:H:425:TYR:CE1	2.45	0.51
2:H:519:LEU:HD13	2:H:519:LEU:C	2.36	0.51
1:I:130:GLY:O	1:I:163:HIS:HE1	1.93	0.51
1:I:364:ARG:HG2	1:I:364:ARG:NH1	2.25	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:423:MET:O	1:I:426:LEU:HB2	2.11	0.51
1:I:482:GLU:CD	1:I:584:MET:HG2	2.36	0.51
1:I:532:LYS:CB	1:I:536:ARG:HH11	2.23	0.51
1:I:551:TYR:C	1:I:553:SER:N	2.69	0.51
2:J:7:PHE:CD2	4:X:99:CYS:HA	2.45	0.51
2:J:452:VAL:CG1	2:J:453:GLY:H	2.24	0.51
2:J:506:VAL:O	2:J:507:LEU:C	2.53	0.51
1:K:5:ILE:CG2	1:K:9:GLU:HG3	2.41	0.51
1:K:289:LEU:HA	1:K:292:THR:OG1	2.10	0.51
1:K:401:ALA:O	1:K:402:SER:C	2.52	0.51
2:L:7:PHE:CD2	4:W:99:CYS:HA	2.45	0.51
2:L:17:GLU:HB3	2:L:18:LEU:HD22	1.92	0.51
2:L:73:LEU:O	2:L:74:MET:C	2.53	0.51
2:L:144:CYS:C	2:L:148:LEU:HD13	2.36	0.51
2:L:519:LEU:C	2:L:519:LEU:HD13	2.36	0.51
3:N:77:VAL:O	3:N:79:LEU:N	2.44	0.51
3:N:180:ASN:O	3:N:181:LEU:HD23	2.11	0.51
4:S:27:GLU:O	4:S:31:MET:HG2	2.11	0.51
4:S:113:ILE:HG22	4:S:114:LEU:N	2.26	0.51
4:T:99:CYS:O	4:T:102:ASP:OD2	2.29	0.51
4:U:85:HIS:O	4:U:88:VAL:CG2	2.58	0.51
3:V:61:LYS:HD2	3:V:66:TYR:CE2	2.46	0.51
3:V:180:ASN:O	3:V:181:LEU:HD23	2.11	0.51
4:W:132:LEU:O	4:W:133:LYS:C	2.54	0.51
1:A:13:THR:O	1:A:26:MET:HE1	2.09	0.51
1:A:55:TYR:C	1:A:55:TYR:CD1	2.87	0.51
1:A:67:GLN:NE2	1:A:93:LEU:HD23	2.17	0.51
1:A:430:GLY:C	1:A:432:TYR:H	2.19	0.51
1:A:508:ILE:O	1:A:509:LEU:C	2.54	0.51
2:B:519:LEU:C	2:B:519:LEU:HD13	2.36	0.51
1:C:123:LEU:O	1:C:124:CYS:C	2.54	0.51
1:C:438:VAL:CB	1:C:439:PRO:HD3	2.28	0.51
2:D:39:ALA:C	2:D:41:MET:H	2.18	0.51
2:D:305:ASN:ND2	2:D:572:SER:O	2.44	0.51
2:D:467:GLU:O	2:D:468:SER:C	2.54	0.51
2:D:569:THR:HG23	3:N:74:ASN:CG	2.35	0.51
1:E:289:LEU:HA	1:E:292:THR:OG1	2.10	0.51
1:E:479:CYS:O	1:E:483:TYR:N	2.31	0.51
1:E:508:ILE:O	1:E:509:LEU:C	2.54	0.51
2:F:394:THR:O	2:F:395:LEU:C	2.54	0.51
1:G:476:ALA:O	1:G:478:TRP:N	2.44	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:13:GLY:O	2:H:14:GLU:C	2.53	0.51
2:H:34:VAL:O	2:H:37:VAL:N	2.43	0.51
2:H:104:ALA:O	2:H:107:VAL:N	2.43	0.51
2:H:506:VAL:O	2:H:507:LEU:C	2.53	0.51
1:I:208:MET:HE3	1:I:212:PHE:CE1	2.46	0.51
1:I:405:PHE:O	1:I:409:GLU:HG2	2.11	0.51
1:I:526:ALA:O	1:I:527:LEU:C	2.54	0.51
2:J:148:LEU:HA	2:J:151:ILE:HD11	1.92	0.51
2:J:480:VAL:HG13	2:J:481:GLN:N	2.24	0.51
1:K:405:PHE:O	1:K:409:GLU:HG2	2.11	0.51
1:K:556:ASP:O	1:K:557:VAL:C	2.54	0.51
2:L:39:ALA:C	2:L:41:MET:H	2.18	0.51
2:L:491:LEU:HD12	2:L:492:PHE:H	1.71	0.51
3:P:68:VAL:CG1	3:P:69:ALA:N	2.74	0.51
3:P:118:MET:HG3	3:P:119:ASP:N	2.25	0.51
3:P:144:THR:CG2	3:P:145:GLY:N	2.73	0.51
4:Q:8:PHE:CE1	4:Q:36:MET:HG2	2.46	0.51
4:T:86:ARG:O	4:T:87:TYR:C	2.52	0.51
4:U:27:GLU:O	4:U:31:MET:HG2	2.11	0.51
4:W:135:ILE:CG2	4:W:136:GLU:N	2.74	0.51
1:A:189:GLY:O	1:A:190:VAL:C	2.54	0.51
2:B:71:LEU:O	2:B:72:TYR:C	2.53	0.51
2:B:455:TYR:N	2:B:455:TYR:HD1	2.09	0.51
2:B:475:ASP:O	2:B:476:GLU:CG	2.57	0.51
2:B:533:ASP:O	2:B:534:PRO:C	2.52	0.51
1:C:208:MET:HE3	1:C:212:PHE:CE1	2.46	0.51
1:C:239:GLY:C	1:C:240:ILE:HG13	2.32	0.51
1:C:315:ARG:HG3	1:C:315:ARG:NH1	2.24	0.51
1:C:455:THR:HG22	1:C:459:LEU:CD1	2.40	0.51
2:D:130:LEU:C	2:D:132:ASP:N	2.67	0.51
2:D:489:VAL:O	2:D:490:LYS:C	2.53	0.51
2:D:506:VAL:O	2:D:507:LEU:C	2.53	0.51
2:D:510:ALA:CB	2:D:519:LEU:HD11	2.34	0.51
1:E:482:GLU:CD	1:E:584:MET:HG2	2.36	0.51
1:E:556:ASP:O	1:E:557:VAL:C	2.54	0.51
2:F:191:HIS:HA	2:F:195:ASN:HD22	1.70	0.51
2:F:489:VAL:O	2:F:490:LYS:C	2.53	0.51
1:G:10:LEU:O	1:G:11:ILE:C	2.53	0.51
1:G:386:LEU:O	1:G:387:TYR:C	2.54	0.51
1:G:526:ALA:O	1:G:527:LEU:C	2.54	0.51
2:H:455:TYR:N	2:H:455:TYR:HD1	2.08	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:534:PRO:O	2:H:535:VAL:C	2.54	0.51
1:I:315:ARG:HG3	1:I:315:ARG:NH1	2.24	0.51
2:J:55:VAL:O	2:J:57:CYS:N	2.44	0.51
2:J:91:PHE:O	2:J:94:ASP:N	2.38	0.51
2:J:387:SER:HA	2:J:390:ARG:CD	2.26	0.51
1:K:79:PHE:O	1:K:80:THR:C	2.54	0.51
1:K:223:LEU:O	1:K:224:LYS:C	2.54	0.51
1:K:423:MET:O	1:K:426:LEU:HB2	2.11	0.51
1:K:438:VAL:CB	1:K:439:PRO:HD3	2.28	0.51
1:K:526:ALA:O	1:K:527:LEU:C	2.54	0.51
1:K:529:ALA:O	1:K:532:LYS:N	2.44	0.51
2:L:243:ARG:O	2:L:246:PRO:HD2	2.10	0.51
3:N:83:PHE:C	3:N:83:PHE:CD1	2.89	0.51
3:N:254:SER:O	3:N:255:PHE:HB3	2.10	0.51
3:P:60:ILE:O	3:P:60:ILE:HG13	2.10	0.51
3:P:283:ILE:O	3:P:284:GLU:CG	2.59	0.51
4:Q:87:TYR:O	4:Q:88:VAL:C	2.51	0.51
4:U:8:PHE:CE1	4:U:36:MET:HG2	2.46	0.51
4:U:30:LYS:HZ1	4:U:33:ARG:HH21	1.59	0.51
4:W:3:ARG:O	4:W:4:PHE:HB3	2.11	0.51
1:A:233:PRO:CD	2:D:464:GLU:OE2	2.57	0.51
1:A:482:GLU:CD	1:A:584:MET:HG2	2.36	0.51
1:A:526:ALA:O	1:A:527:LEU:C	2.54	0.51
1:A:529:ALA:O	1:A:532:LYS:N	2.44	0.51
1:A:541:VAL:HG12	1:A:541:VAL:O	2.10	0.51
1:A:583:ARG:HB2	2:B:528:ARG:HH12	1.74	0.51
2:B:377:ILE:HG21	2:B:395:LEU:CD2	2.39	0.51
2:B:405:TYR:HD1	2:B:406:VAL:H	1.47	0.51
2:B:466:LEU:HD23	2:B:488:ILE:HD13	1.91	0.51
1:C:79:PHE:O	1:C:80:THR:C	2.54	0.51
1:C:140:GLY:O	1:C:141:GLU:C	2.53	0.51
1:C:324:ILE:O	1:C:325:ARG:C	2.54	0.51
1:C:423:MET:O	1:C:426:LEU:HB2	2.11	0.51
1:C:556:ASP:O	1:C:557:VAL:C	2.54	0.51
1:C:562:ARG:O	1:C:565:GLU:HB2	2.10	0.51
2:D:148:LEU:HA	2:D:151:ILE:HD11	1.92	0.51
2:D:464:GLU:HA	2:D:467:GLU:HB3	1.92	0.51
2:D:534:PRO:O	2:D:535:VAL:C	2.53	0.51
1:E:134:MET:O	1:E:137:ASP:N	2.38	0.51
1:E:395:GLU:HB2	1:E:396:PHE:CD1	2.46	0.51
1:E:422:ILE:O	1:E:426:LEU:HD23	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:71:LEU:O	2:F:72:TYR:C	2.53	0.51
2:F:304:ARG:CG	2:F:573:VAL:HA	2.40	0.51
2:F:555:ILE:CG2	2:F:556:GLU:H	2.23	0.51
1:G:293:VAL:O	1:G:294:LEU:C	2.54	0.51
1:G:455:THR:HG22	1:G:459:LEU:CD1	2.40	0.51
1:G:532:LYS:CA	1:G:581:LEU:HD13	2.35	0.51
2:H:216:GLU:HB2	2:H:217:TRP:HE3	1.67	0.51
2:H:475:ASP:O	2:H:475:ASP:OD1	2.29	0.51
1:I:83:ARG:HA	1:I:121:LEU:CD1	2.41	0.51
1:I:250:LEU:O	1:I:251:ARG:C	2.53	0.51
1:I:310:ILE:O	1:I:312:ILE:N	2.44	0.51
1:I:326:TYR:O	1:I:327:VAL:C	2.54	0.51
1:I:522:THR:O	1:I:523:ARG:C	2.53	0.51
1:I:529:ALA:O	1:I:532:LYS:N	2.44	0.51
1:I:562:ARG:O	1:I:565:GLU:HB2	2.10	0.51
2:J:56:ASN:HD22	2:J:56:ASN:N	2.06	0.51
2:J:420:LYS:HB3	2:J:421:TYR:CE2	2.46	0.51
2:J:487:ALA:O	2:J:490:LYS:HB2	2.10	0.51
1:K:151:SER:O	1:K:152:TYR:C	2.53	0.51
1:K:187:ASN:HD22	1:K:187:ASN:C	2.19	0.51
1:K:254:ARG:HA	1:K:295:THR:HG23	1.92	0.51
1:K:422:ILE:O	1:K:426:LEU:HD23	2.11	0.51
1:K:474:GLN:O	1:K:475:VAL:C	2.53	0.51
2:L:88:VAL:HG11	2:L:121:TYR:HD2	1.69	0.51
2:L:264:MET:HE2	2:L:564:ILE:CG2	2.40	0.51
2:L:455:TYR:N	2:L:455:TYR:HD1	2.09	0.51
3:M:60:ILE:O	3:M:60:ILE:HG13	2.10	0.51
3:M:380:PHE:C	3:M:380:PHE:HD1	2.19	0.51
3:N:118:MET:HG3	3:N:119:ASP:N	2.25	0.51
3:N:119:ASP:O	3:N:121:GLY:N	2.43	0.51
3:O:77:VAL:O	3:O:79:LEU:N	2.44	0.51
3:P:95:PHE:HA	3:P:141:LYS:HG2	1.92	0.51
3:P:215:ASN:HB2	3:P:391:GLN:H	1.76	0.51
3:P:380:PHE:C	3:P:380:PHE:HD1	2.19	0.51
4:Q:135:ILE:CG2	4:Q:136:GLU:N	2.74	0.51
3:R:65:LEU:HD21	3:R:100:GLU:N	2.26	0.51
3:R:380:PHE:C	3:R:380:PHE:HD1	2.19	0.51
4:S:8:PHE:CD1	4:S:36:MET:SD	3.04	0.51
4:S:8:PHE:CE1	4:S:36:MET:HG2	2.46	0.51
4:S:135:ILE:CG2	4:S:136:GLU:N	2.74	0.51
4:U:50:LEU:HD23	4:U:50:LEU:C	2.34	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:U:99:CYS:O	4:U:102:ASP:OD2	2.29	0.51
3:V:68:VAL:CG1	3:V:69:ALA:N	2.74	0.51
3:V:112:GLU:OE1	3:V:136:THR:N	2.40	0.51
3:V:380:PHE:HD1	3:V:380:PHE:C	2.19	0.51
4:W:8:PHE:CE1	4:W:36:MET:HG2	2.46	0.51
4:X:59:TYR:CD2	4:X:59:TYR:O	2.64	0.51
4:X:80:THR:O	4:X:81:LEU:C	2.54	0.51
4:X:113:ILE:HG22	4:X:114:LEU:N	2.26	0.51
1:A:326:TYR:O	1:A:327:VAL:C	2.54	0.51
1:A:364:ARG:HG2	1:A:364:ARG:NH1	2.25	0.51
1:A:478:TRP:CH2	1:A:532:LYS:NZ	2.73	0.51
2:B:130:LEU:C	2:B:132:ASP:N	2.67	0.51
2:B:262:VAL:HB	2:B:266:PHE:CE1	2.46	0.51
2:B:475:ASP:O	2:B:475:ASP:OD1	2.29	0.51
2:B:489:VAL:O	2:B:492:PHE:N	2.44	0.51
1:C:5:ILE:CG2	1:C:9:GLU:HG3	2.41	0.51
1:C:113:HIS:HD2	1:C:115:THR:H	1.56	0.51
1:C:405:PHE:O	1:C:409:GLU:HG2	2.11	0.51
1:C:509:LEU:O	1:C:512:VAL:HB	2.11	0.51
2:D:424:LYS:HB3	2:D:425:TYR:CE1	2.45	0.51
2:D:475:ASP:O	2:D:475:ASP:OD1	2.29	0.51
1:E:10:LEU:O	1:E:11:ILE:C	2.53	0.51
1:E:423:MET:O	1:E:426:LEU:HB2	2.11	0.51
1:E:476:ALA:O	1:E:478:TRP:N	2.44	0.51
1:E:488:VAL:C	1:E:500:VAL:HG11	2.36	0.51
2:F:337:GLU:O	2:F:338:LYS:C	2.53	0.51
2:F:506:VAL:O	2:F:507:LEU:C	2.53	0.51
1:G:197:LEU:HD13	1:G:201:MET:HG3	1.93	0.51
1:G:324:ILE:O	1:G:325:ARG:C	2.54	0.51
1:G:395:GLU:HB2	1:G:396:PHE:CD1	2.46	0.51
1:G:422:ILE:O	1:G:423:MET:C	2.50	0.51
1:G:509:LEU:O	1:G:512:VAL:HB	2.11	0.51
2:H:32:GLU:O	2:H:33:ALA:C	2.53	0.51
2:H:255:VAL:O	2:H:256:VAL:C	2.52	0.51
2:H:475:ASP:O	2:H:476:GLU:CG	2.57	0.51
1:I:254:ARG:HA	1:I:295:THR:HG23	1.92	0.51
1:I:343:VAL:HG23	1:I:344:GLN:N	2.24	0.51
2:J:113:ILE:CG2	2:J:114:ARG:N	2.74	0.51
2:J:243:ARG:O	2:J:246:PRO:HD2	2.11	0.51
2:J:465:LEU:O	2:J:466:LEU:C	2.54	0.51
2:J:517:PRO:O	2:J:518:ASP:C	2.52	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:197:LEU:HD13	1:K:201:MET:HG3	1.93	0.51
1:K:236:ASP:CG	1:K:237:VAL:N	2.69	0.51
1:K:250:LEU:O	1:K:251:ARG:C	2.53	0.51
1:K:405:PHE:O	1:K:406:LEU:C	2.54	0.51
2:L:55:VAL:O	2:L:57:CYS:N	2.44	0.51
2:L:113:ILE:CG2	2:L:114:ARG:N	2.74	0.51
2:L:186:GLU:HB2	3:V:122:TYR:OH	2.11	0.51
2:L:305:ASN:ND2	2:L:572:SER:O	2.44	0.51
2:L:467:GLU:O	2:L:468:SER:C	2.54	0.51
3:M:180:ASN:O	3:M:181:LEU:HD23	2.11	0.51
3:N:8:VAL:O	3:N:16:LEU:CB	2.54	0.51
3:N:33:PHE:O	3:N:34:MET:C	2.54	0.51
4:Q:3:ARG:O	4:Q:4:PHE:HB3	2.11	0.51
3:R:144:THR:CG2	3:R:145:GLY:N	2.73	0.51
4:S:59:TYR:O	4:S:59:TYR:CD2	2.64	0.51
4:T:62:TYR:CE2	4:T:88:VAL:HG11	2.46	0.51
4:U:3:ARG:O	4:U:4:PHE:HB3	2.11	0.51
4:W:99:CYS:O	4:W:102:ASP:OD2	2.29	0.51
4:X:33:ARG:CG	4:X:34:GLU:N	2.73	0.51
4:X:62:TYR:CE2	4:X:88:VAL:HG11	2.46	0.51
4:X:132:LEU:O	4:X:133:LYS:C	2.54	0.51
1:A:5:ILE:CG2	1:A:9:GLU:HG3	2.41	0.50
1:A:422:ILE:O	1:A:426:LEU:HD23	2.11	0.50
1:A:551:TYR:C	1:A:553:SER:N	2.68	0.50
1:A:562:ARG:O	1:A:565:GLU:HB2	2.10	0.50
2:B:420:LYS:HB3	2:B:421:TYR:CE2	2.46	0.50
2:B:467:GLU:O	2:B:468:SER:C	2.54	0.50
2:B:555:ILE:CG2	2:B:556:GLU:H	2.23	0.50
1:C:254:ARG:HA	1:C:295:THR:HG23	1.92	0.50
2:D:186:GLU:HB2	3:N:122:TYR:OH	2.11	0.50
2:D:465:LEU:O	2:D:466:LEU:C	2.54	0.50
1:E:67:GLN:NE2	1:E:93:LEU:HD23	2.17	0.50
2:F:32:GLU:O	2:F:33:ALA:C	2.53	0.50
2:F:55:VAL:O	2:F:57:CYS:N	2.44	0.50
2:F:243:ARG:O	2:F:246:PRO:HD2	2.11	0.50
2:F:467:GLU:O	2:F:468:SER:C	2.54	0.50
2:F:507:LEU:O	2:F:508:SER:C	2.53	0.50
1:G:556:ASP:O	1:G:557:VAL:C	2.54	0.50
2:H:18:LEU:O	2:H:19:LYS:C	2.53	0.50
2:H:405:TYR:O	2:H:406:VAL:C	2.53	0.50
2:H:489:VAL:O	2:H:490:LYS:C	2.53	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:489:VAL:O	2:H:492:PHE:N	2.45	0.50
1:I:79:PHE:O	1:I:80:THR:C	2.54	0.50
2:J:262:VAL:HB	2:J:266:PHE:CE1	2.46	0.50
2:J:337:GLU:O	2:J:338:LYS:C	2.53	0.50
1:K:326:TYR:O	1:K:327:VAL:C	2.54	0.50
1:K:333:LEU:HD12	1:K:333:LEU:N	2.25	0.50
1:K:366:MET:O	1:K:369:SER:OG	2.24	0.50
1:K:509:LEU:O	1:K:512:VAL:HB	2.11	0.50
1:K:583:ARG:HB2	2:L:528:ARG:HH12	1.74	0.50
2:L:395:LEU:O	2:L:396:LEU:C	2.53	0.50
2:L:464:GLU:HA	2:L:467:GLU:HB3	1.92	0.50
2:L:534:PRO:O	2:L:535:VAL:C	2.53	0.50
3:P:180:ASN:O	3:P:181:LEU:HD23	2.11	0.50
4:Q:27:GLU:O	4:Q:31:MET:HG2	2.11	0.50
4:Q:59:TYR:O	4:Q:59:TYR:CD2	2.64	0.50
4:Q:99:CYS:O	4:Q:102:ASP:OD2	2.29	0.50
3:R:215:ASN:HB2	3:R:391:GLN:H	1.76	0.50
4:S:90:LEU:N	4:S:90:LEU:HD22	2.25	0.50
4:T:27:GLU:O	4:T:31:MET:HG2	2.11	0.50
4:T:135:ILE:CG2	4:T:136:GLU:N	2.73	0.50
3:V:77:VAL:O	3:V:79:LEU:N	2.44	0.50
3:V:380:PHE:C	3:V:380:PHE:CD1	2.87	0.50
4:W:59:TYR:O	4:W:59:TYR:CD2	2.64	0.50
4:W:62:TYR:CE2	4:W:88:VAL:HG11	2.46	0.50
4:X:3:ARG:O	4:X:4:PHE:HB3	2.11	0.50
1:A:212:PHE:O	1:A:216:VAL:CG2	2.55	0.50
1:A:310:ILE:O	1:A:312:ILE:N	2.44	0.50
2:B:55:VAL:O	2:B:57:CYS:N	2.44	0.50
2:B:305:ASN:ND2	2:B:572:SER:O	2.44	0.50
2:B:394:THR:O	2:B:395:LEU:C	2.54	0.50
2:B:395:LEU:O	2:B:396:LEU:C	2.53	0.50
2:B:489:VAL:O	2:B:490:LYS:C	2.53	0.50
2:B:499:THR:O	2:B:500:GLN:C	2.53	0.50
1:C:137:ASP:HB2	1:C:138:LEU:HD22	1.93	0.50
1:C:215:LEU:O	1:C:216:VAL:C	2.54	0.50
1:C:310:ILE:C	1:C:312:ILE:N	2.68	0.50
1:C:347:ARG:O	1:C:350:ILE:N	2.45	0.50
1:C:395:GLU:HB2	1:C:396:PHE:CD1	2.46	0.50
1:C:476:ALA:O	1:C:478:TRP:N	2.44	0.50
1:C:526:ALA:O	1:C:527:LEU:C	2.54	0.50
2:D:95:CYS:HA	2:D:103:ARG:HB2	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:486:THR:HG22	2:D:487:ALA:H	1.76	0.50
1:E:5:ILE:C	1:E:52:LYS:HZ1	2.18	0.50
1:E:197:LEU:HD13	1:E:201:MET:HG3	1.93	0.50
1:E:293:VAL:O	1:E:294:LEU:C	2.54	0.50
1:E:386:LEU:O	1:E:387:TYR:C	2.54	0.50
2:F:241:CYS:C	2:F:243:ARG:H	2.17	0.50
2:F:420:LYS:HB3	2:F:421:TYR:CE2	2.46	0.50
1:G:86:TYR:HE2	1:G:122:ALA:HA	1.76	0.50
1:G:208:MET:HE3	1:G:212:PHE:CE1	2.46	0.50
1:G:217:PRO:O	1:G:220:VAL:HB	2.12	0.50
1:G:289:LEU:HA	1:G:292:THR:OG1	2.10	0.50
1:G:448:SER:HB3	1:G:451:MET:HE1	1.93	0.50
1:G:482:GLU:CD	1:G:584:MET:HG2	2.36	0.50
1:G:488:VAL:C	1:G:500:VAL:HG11	2.36	0.50
1:G:523:ARG:O	1:G:526:ALA:HB3	2.12	0.50
2:J:18:LEU:O	2:J:19:LYS:C	2.53	0.50
2:J:429:ILE:O	2:J:432:LEU:HB3	2.12	0.50
1:K:13:THR:O	1:K:26:MET:HE1	2.09	0.50
1:K:372:LEU:N	1:K:372:LEU:CD1	2.69	0.50
1:K:438:VAL:O	1:K:442:ILE:HD13	2.12	0.50
2:L:429:ILE:O	2:L:432:LEU:HB3	2.12	0.50
3:M:65:LEU:HD21	3:M:100:GLU:N	2.26	0.50
3:M:321:ASP:OD1	3:M:322:SER:N	2.38	0.50
3:N:380:PHE:C	3:N:380:PHE:CD1	2.87	0.50
3:O:60:ILE:O	3:O:60:ILE:HG13	2.10	0.50
4:Q:25:ASP:O	4:Q:28:ARG:HB2	2.11	0.50
4:T:9:SER:O	4:T:10:ARG:C	2.54	0.50
4:T:109:LYS:HA	4:T:112:PHE:CD1	2.35	0.50
4:T:113:ILE:HG22	4:T:114:LEU:N	2.26	0.50
4:T:132:LEU:O	4:T:133:LYS:C	2.54	0.50
4:U:9:SER:O	4:U:10:ARG:C	2.54	0.50
4:U:113:ILE:HG22	4:U:114:LEU:N	2.26	0.50
3:V:83:PHE:O	3:V:84:LEU:C	2.54	0.50
4:W:112:PHE:O	4:W:113:ILE:C	2.52	0.50
1:A:151:SER:O	1:A:152:TYR:C	2.53	0.50
1:A:353:CYS:C	1:A:355:LYS:N	2.69	0.50
1:A:386:LEU:O	1:A:387:TYR:C	2.54	0.50
1:A:523:ARG:O	1:A:526:ALA:HB3	2.12	0.50
2:B:113:ILE:CG2	2:B:114:ARG:N	2.74	0.50
2:B:182:ALA:O	2:B:185:SER:N	2.45	0.50
2:B:405:TYR:O	2:B:406:VAL:C	2.53	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:14:ILE:H	1:C:14:ILE:CD1	2.18	0.50
1:C:36:SER:HA	1:C:39:ARG:CG	2.36	0.50
1:C:310:ILE:O	1:C:312:ILE:N	2.44	0.50
1:C:326:TYR:O	1:C:327:VAL:C	2.54	0.50
1:C:353:CYS:C	1:C:355:LYS:N	2.69	0.50
1:C:422:ILE:O	1:C:426:LEU:HD23	2.11	0.50
1:C:522:THR:O	1:C:523:ARG:C	2.53	0.50
1:C:523:ARG:O	1:C:526:ALA:HB3	2.12	0.50
1:C:533:LEU:O	1:C:536:ARG:N	2.40	0.50
1:C:541:VAL:O	1:C:541:VAL:HG12	2.10	0.50
2:D:420:LYS:HB3	2:D:421:TYR:CE2	2.46	0.50
2:D:429:ILE:O	2:D:432:LEU:HB3	2.12	0.50
2:D:455:TYR:N	2:D:455:TYR:HD1	2.09	0.50
2:D:543:ALA:O	2:D:545:LYS:HG3	2.11	0.50
1:E:189:GLY:O	1:E:190:VAL:C	2.54	0.50
1:E:197:LEU:C	1:E:197:LEU:CD1	2.85	0.50
1:E:223:LEU:O	1:E:224:LYS:C	2.54	0.50
1:E:347:ARG:O	1:E:348:SER:C	2.54	0.50
1:E:523:ARG:O	1:E:526:ALA:HB3	2.12	0.50
2:F:305:ASN:ND2	2:F:572:SER:O	2.44	0.50
2:F:405:TYR:O	2:F:406:VAL:C	2.53	0.50
2:F:429:ILE:O	2:F:432:LEU:HB3	2.12	0.50
2:F:455:TYR:N	2:F:455:TYR:HD1	2.09	0.50
1:G:79:PHE:O	1:G:80:THR:C	2.54	0.50
1:G:152:TYR:OH	4:Q:116:GLU:OE1	2.27	0.50
2:H:200:LYS:HB2	2:H:203:SER:CB	2.41	0.50
2:H:305:ASN:ND2	2:H:572:SER:O	2.44	0.50
2:H:533:ASP:O	2:H:534:PRO:C	2.52	0.50
1:I:23:GLU:O	1:I:24:ARG:C	2.54	0.50
1:I:347:ARG:O	1:I:350:ILE:N	2.45	0.50
2:J:489:VAL:O	2:J:492:PHE:N	2.44	0.50
1:K:86:TYR:HE2	1:K:122:ALA:HA	1.76	0.50
1:K:310:ILE:O	1:K:312:ILE:N	2.44	0.50
2:L:182:ALA:O	2:L:185:SER:N	2.45	0.50
3:N:68:VAL:CG1	3:N:69:ALA:N	2.74	0.50
3:O:180:ASN:O	3:O:181:LEU:HD23	2.11	0.50
3:P:376:ILE:CG2	3:P:420:LEU:HB2	2.41	0.50
4:Q:9:SER:O	4:Q:10:ARG:C	2.54	0.50
4:Q:132:LEU:O	4:Q:133:LYS:C	2.54	0.50
4:S:132:LEU:O	4:S:133:LYS:C	2.54	0.50
4:T:80:THR:O	4:T:81:LEU:C	2.54	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:T:96:GLY:O	4:T:97:SER:C	2.55	0.50
3:V:194:ILE:HG13	3:V:194:ILE:O	2.11	0.50
4:W:9:SER:O	4:W:10:ARG:C	2.54	0.50
1:A:50:VAL:O	1:A:53:LEU:HB3	2.12	0.50
1:A:137:ASP:HB2	1:A:138:LEU:HD22	1.93	0.50
1:A:423:MET:O	1:A:426:LEU:HB2	2.11	0.50
1:A:478:TRP:HH2	1:A:532:LYS:HZ3	1.57	0.50
2:B:543:ALA:O	2:B:545:LYS:HG3	2.11	0.50
1:C:551:TYR:C	1:C:553:SER:H	2.20	0.50
2:D:7:PHE:CD2	4:T:99:CYS:HA	2.45	0.50
2:D:182:ALA:O	2:D:185:SER:N	2.45	0.50
1:E:57:HIS:C	1:E:59:LEU:N	2.70	0.50
1:E:315:ARG:HG3	1:E:315:ARG:NH1	2.24	0.50
1:E:324:ILE:O	1:E:325:ARG:C	2.54	0.50
1:E:526:ALA:O	1:E:527:LEU:C	2.54	0.50
2:F:18:LEU:O	2:F:19:LYS:C	2.53	0.50
2:F:426:GLU:O	2:F:429:ILE:N	2.28	0.50
2:F:475:ASP:O	2:F:475:ASP:OD1	2.29	0.50
1:G:343:VAL:HG23	1:G:344:GLN:N	2.24	0.50
1:G:353:CYS:C	1:G:355:LYS:N	2.69	0.50
1:G:532:LYS:CB	1:G:536:ARG:HH11	2.23	0.50
2:H:467:GLU:O	2:H:468:SER:C	2.54	0.50
2:H:543:ALA:O	2:H:545:LYS:HG3	2.11	0.50
1:I:14:ILE:H	1:I:14:ILE:CD1	2.17	0.50
1:I:189:GLY:O	1:I:190:VAL:C	2.54	0.50
1:I:201:MET:O	1:I:203:GLU:N	2.42	0.50
1:I:438:VAL:O	1:I:442:ILE:HD13	2.12	0.50
1:I:458:ARG:O	1:I:459:LEU:C	2.55	0.50
2:J:395:LEU:O	2:J:396:LEU:C	2.53	0.50
2:J:467:GLU:O	2:J:468:SER:C	2.54	0.50
2:J:493:LEU:C	2:J:495:LYS:N	2.62	0.50
2:J:566:TYR:HD1	2:J:566:TYR:H	1.58	0.50
1:K:347:ARG:O	1:K:350:ILE:N	2.45	0.50
1:K:508:ILE:O	1:K:509:LEU:C	2.54	0.50
2:L:414:ILE:O	2:L:415:LYS:C	2.53	0.50
2:L:489:VAL:O	2:L:492:PHE:N	2.44	0.50
2:L:506:VAL:O	2:L:507:LEU:C	2.53	0.50
3:M:112:GLU:OE1	3:M:136:THR:N	2.39	0.50
3:M:131:LEU:C	3:M:133:GLU:N	2.68	0.50
3:M:215:ASN:HB2	3:M:391:GLN:H	1.76	0.50
3:N:215:ASN:HB2	3:N:391:GLN:H	1.76	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:O:65:LEU:HD21	3:O:100:GLU:N	2.26	0.50
3:O:68:VAL:CG1	3:O:69:ALA:N	2.74	0.50
3:O:215:ASN:HB2	3:O:391:GLN:H	1.76	0.50
3:O:265:MET:HG2	3:O:266:SER:N	2.27	0.50
3:O:283:ILE:O	3:O:284:GLU:CG	2.59	0.50
3:O:388:SER:OG	3:O:389:GLY:N	2.45	0.50
3:P:11:LEU:H	3:P:11:LEU:CD1	1.98	0.50
3:P:321:ASP:OD1	3:P:322:SER:N	2.38	0.50
4:Q:62:TYR:CE2	4:Q:88:VAL:HG11	2.46	0.50
4:S:9:SER:O	4:S:10:ARG:C	2.54	0.50
4:S:35:LEU:O	4:S:36:MET:C	2.53	0.50
4:T:25:ASP:O	4:T:28:ARG:HB2	2.11	0.50
3:V:144:THR:CG2	3:V:145:GLY:N	2.73	0.50
3:V:279:ILE:CG2	3:V:280:GLU:N	2.75	0.50
3:V:388:SER:OG	3:V:389:GLY:N	2.45	0.50
4:W:25:ASP:O	4:W:28:ARG:HB2	2.12	0.50
4:W:27:GLU:O	4:W:31:MET:HG2	2.11	0.50
4:X:8:PHE:CD1	4:X:36:MET:SD	3.04	0.50
4:X:9:SER:O	4:X:10:ARG:C	2.54	0.50
4:X:86:ARG:O	4:X:87:TYR:C	2.52	0.50
1:A:488:VAL:C	1:A:500:VAL:HG11	2.36	0.50
1:A:556:ASP:OD2	1:A:558:GLU:HB3	2.12	0.50
1:A:582:GLU:O	1:A:582:GLU:HG3	2.11	0.50
2:B:18:LEU:O	2:B:19:LYS:C	2.53	0.50
1:C:193:THR:OG1	1:C:194:SER:N	2.43	0.50
1:C:529:ALA:O	1:C:532:LYS:N	2.44	0.50
2:D:144:CYS:C	2:D:148:LEU:HD13	2.36	0.50
2:D:304:ARG:CG	2:D:573:VAL:HA	2.40	0.50
2:D:337:GLU:O	2:D:338:LYS:C	2.53	0.50
2:D:452:VAL:CG1	2:D:453:GLY:H	2.24	0.50
1:E:5:ILE:CG2	1:E:9:GLU:HG3	2.41	0.50
1:E:187:ASN:HD22	1:E:187:ASN:C	2.19	0.50
1:G:5:ILE:CG2	1:G:9:GLU:HG3	2.41	0.50
1:G:61:TYR:HB3	1:G:62:PRO:HD2	1.94	0.50
1:G:347:ARG:O	1:G:350:ILE:N	2.45	0.50
1:G:405:PHE:O	1:G:409:GLU:HG2	2.11	0.50
1:G:529:ALA:O	1:G:532:LYS:N	2.44	0.50
1:G:562:ARG:O	1:G:565:GLU:HB2	2.10	0.50
1:G:582:GLU:O	1:G:582:GLU:HG3	2.11	0.50
2:H:128:LYS:O	2:H:129:CYS:C	2.55	0.50
1:I:10:LEU:O	1:I:11:ILE:C	2.53	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:217:PRO:O	1:I:220:VAL:HB	2.12	0.50
1:I:331:SER:O	1:I:332:LEU:C	2.52	0.50
1:I:422:ILE:O	1:I:426:LEU:HD23	2.11	0.50
1:I:508:ILE:O	1:I:509:LEU:C	2.54	0.50
1:I:556:ASP:O	1:I:557:VAL:C	2.54	0.50
2:J:486:THR:CG2	2:J:490:LYS:HE2	2.41	0.50
2:J:569:THR:HG22	2:J:570:LEU:N	2.27	0.50
1:K:50:VAL:O	1:K:53:LEU:HB3	2.12	0.50
1:K:315:ARG:HG3	1:K:315:ARG:NH1	2.24	0.50
1:K:476:ALA:O	1:K:478:TRP:N	2.44	0.50
1:K:482:GLU:CD	1:K:584:MET:HG2	2.36	0.50
2:L:18:LEU:O	2:L:19:LYS:C	2.53	0.50
2:L:533:ASP:O	2:L:534:PRO:C	2.52	0.50
2:L:543:ALA:O	2:L:545:LYS:HG3	2.11	0.50
3:M:33:PHE:O	3:M:34:MET:C	2.54	0.50
3:M:68:VAL:CG1	3:M:69:ALA:N	2.74	0.50
3:M:83:PHE:O	3:M:84:LEU:C	2.54	0.50
3:M:100:GLU:O	3:M:101:GLU:C	2.53	0.50
3:M:388:SER:OG	3:M:389:GLY:N	2.45	0.50
3:O:33:PHE:O	3:O:34:MET:C	2.54	0.50
3:O:65:LEU:HD11	3:O:99:GLU:CA	2.42	0.50
3:P:77:VAL:O	3:P:79:LEU:N	2.44	0.50
4:Q:86:ARG:O	4:Q:87:TYR:C	2.52	0.50
3:R:65:LEU:HD11	3:R:99:GLU:CA	2.42	0.50
3:R:83:PHE:C	3:R:83:PHE:CD1	2.89	0.50
4:S:96:GLY:O	4:S:97:SER:C	2.55	0.50
4:S:99:CYS:O	4:S:102:ASP:OD2	2.29	0.50
4:T:59:TYR:CD2	4:T:59:TYR:O	2.64	0.50
4:U:25:ASP:O	4:U:28:ARG:HB2	2.12	0.50
4:X:107:PHE:O	4:X:110:ALA:HB3	2.12	0.50
1:A:83:ARG:HA	1:A:121:LEU:CD1	2.41	0.50
1:A:197:LEU:HD13	1:A:201:MET:HG3	1.93	0.50
1:A:293:VAL:O	1:A:294:LEU:C	2.54	0.50
1:A:344:GLN:NE2	1:A:374:ASN:HD22	2.10	0.50
1:A:556:ASP:O	1:A:557:VAL:C	2.54	0.50
2:B:12:LYS:CG	2:B:13:GLY:N	2.72	0.50
1:C:23:GLU:O	1:C:24:ARG:C	2.54	0.50
1:C:50:VAL:O	1:C:53:LEU:HB3	2.12	0.50
1:C:344:GLN:NE2	1:C:374:ASN:HD22	2.10	0.50
1:C:479:CYS:O	1:C:483:TYR:N	2.31	0.50
2:D:18:LEU:O	2:D:19:LYS:C	2.53	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:50:VAL:O	1:E:53:LEU:HB3	2.12	0.50
2:F:124:GLU:HB2	2:F:125:PRO:CD	2.36	0.50
2:F:182:ALA:O	2:F:185:SER:N	2.45	0.50
2:F:377:ILE:HG21	2:F:395:LEU:CD2	2.39	0.50
1:G:50:VAL:O	1:G:53:LEU:HB3	2.12	0.50
1:G:193:THR:OG1	1:G:194:SER:N	2.43	0.50
2:H:41:MET:HG2	2:H:42:THR:N	2.27	0.50
1:I:215:LEU:O	1:I:216:VAL:C	2.54	0.50
1:I:223:LEU:O	1:I:224:LYS:C	2.54	0.50
1:I:362:LYS:O	1:I:363:ARG:C	2.52	0.50
2:J:112:CYS:C	2:J:113:ILE:HD12	2.37	0.50
2:J:130:LEU:C	2:J:132:ASP:N	2.67	0.50
2:J:144:CYS:C	2:J:148:LEU:HD13	2.36	0.50
2:J:186:GLU:HB2	3:R:122:TYR:OH	2.11	0.50
2:J:455:TYR:N	2:J:455:TYR:HD1	2.08	0.50
2:J:534:PRO:O	2:J:535:VAL:C	2.54	0.50
1:K:67:GLN:HG3	1:K:93:LEU:HD23	1.94	0.50
1:K:140:GLY:O	1:K:141:GLU:C	2.53	0.50
1:K:217:PRO:O	1:K:220:VAL:HB	2.12	0.50
1:K:254:ARG:HB2	1:K:295:THR:CG2	2.42	0.50
1:K:293:VAL:O	1:K:294:LEU:C	2.54	0.50
1:K:458:ARG:O	1:K:459:LEU:C	2.55	0.50
2:L:95:CYS:HA	2:L:103:ARG:HB2	1.93	0.50
2:L:262:VAL:HB	2:L:266:PHE:CE1	2.46	0.50
3:M:65:LEU:HD11	3:M:99:GLU:CA	2.42	0.50
3:M:119:ASP:O	3:M:121:GLY:N	2.44	0.50
3:N:32:HIS:O	3:N:35:PRO:HD2	2.11	0.50
3:N:65:LEU:HD21	3:N:100:GLU:N	2.26	0.50
3:N:173:LEU:C	3:N:174:ASP:OD2	2.55	0.50
3:N:194:ILE:HG13	3:N:194:ILE:O	2.10	0.50
3:O:254:SER:O	3:O:255:PHE:HB3	2.10	0.50
3:P:83:PHE:O	3:P:84:LEU:C	2.54	0.50
4:U:35:LEU:O	4:U:36:MET:C	2.53	0.50
3:V:32:HIS:O	3:V:35:PRO:HD2	2.12	0.50
3:V:65:LEU:HD21	3:V:100:GLU:N	2.26	0.50
3:V:380:PHE:CD1	3:V:380:PHE:N	2.76	0.50
4:W:88:VAL:HA	4:W:91:LEU:HD12	1.94	0.50
4:X:27:GLU:O	4:X:31:MET:HG2	2.11	0.50
4:X:30:LYS:HA	4:X:30:LYS:NZ	2.26	0.50
4:X:88:VAL:CG2	4:X:89:GLU:N	2.75	0.50
4:X:88:VAL:HA	4:X:91:LEU:HD12	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:236:ASP:CG	1:A:237:VAL:N	2.69	0.50
1:A:413:PRO:HD2	1:A:417:TRP:CZ3	2.47	0.50
2:B:112:CYS:C	2:B:113:ILE:HD12	2.37	0.50
2:B:483:GLN:O	2:B:484:LEU:C	2.55	0.50
1:C:151:SER:O	1:C:152:TYR:C	2.53	0.50
1:C:257:GLY:O	1:C:258:ARG:C	2.55	0.50
1:C:556:ASP:OD2	1:C:558:GLU:HB3	2.12	0.50
2:D:148:LEU:HA	2:D:151:ILE:CG1	2.42	0.50
2:D:262:VAL:HB	2:D:266:PHE:CE1	2.46	0.50
2:D:377:ILE:HG21	2:D:395:LEU:CD2	2.39	0.50
2:D:489:VAL:O	2:D:492:PHE:N	2.44	0.50
1:E:86:TYR:HE2	1:E:122:ALA:HA	1.76	0.50
1:E:208:MET:HE3	1:E:212:PHE:CE1	2.46	0.50
1:E:448:SER:HB3	1:E:451:MET:HE1	1.93	0.50
1:E:529:ALA:O	1:E:532:LYS:N	2.44	0.50
2:F:113:ILE:CG2	2:F:114:ARG:N	2.74	0.50
2:F:436:LEU:C	2:F:436:LEU:CD1	2.83	0.50
2:F:489:VAL:O	2:F:492:PHE:N	2.44	0.50
1:G:113:HIS:HD2	1:G:115:THR:H	1.56	0.50
1:G:310:ILE:O	1:G:312:ILE:N	2.45	0.50
1:G:320:ASN:OD1	3:R:166:TYR:CE1	2.65	0.50
1:G:458:ARG:O	1:G:459:LEU:C	2.55	0.50
1:G:533:LEU:O	1:G:536:ARG:N	2.40	0.50
2:H:75:ASN:N	2:H:75:ASN:HD22	2.08	0.50
2:H:113:ILE:CG2	2:H:114:ARG:N	2.74	0.50
2:H:420:LYS:HB3	2:H:421:TYR:CE2	2.46	0.50
2:H:569:THR:HG22	2:H:570:LEU:N	2.27	0.50
1:I:197:LEU:HD13	1:I:201:MET:HG3	1.93	0.50
2:J:41:MET:HG2	2:J:42:THR:N	2.27	0.50
2:J:71:LEU:O	2:J:72:TYR:C	2.53	0.50
2:J:414:ILE:O	2:J:415:LYS:C	2.53	0.50
2:J:555:ILE:CG2	2:J:556:GLU:H	2.23	0.50
2:J:563:LEU:C	2:J:565:CYS:N	2.70	0.50
1:K:61:TYR:HB3	1:K:62:PRO:HD2	1.94	0.50
1:K:195:VAL:O	1:K:196:VAL:C	2.55	0.50
1:K:215:LEU:O	1:K:216:VAL:C	2.54	0.50
1:K:395:GLU:HB2	1:K:396:PHE:CD1	2.46	0.50
1:K:448:SER:HB3	1:K:451:MET:HE1	1.93	0.50
1:K:470:GLN:HB2	1:K:471:PRO:CD	2.34	0.50
2:L:486:THR:CG2	2:L:490:LYS:HE2	2.41	0.50
3:M:173:LEU:C	3:M:174:ASP:OD2	2.55	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:M:265:MET:HG2	3:M:266:SER:N	2.27	0.50
3:N:96:LYS:HG3	3:N:97:GLU:HG3	1.92	0.50
3:O:96:LYS:HG3	3:O:97:GLU:HG3	1.92	0.50
3:P:65:LEU:HD21	3:P:100:GLU:N	2.26	0.50
3:P:255:PHE:CD2	3:P:255:PHE:N	2.78	0.50
4:Q:107:PHE:O	4:Q:110:ALA:HB3	2.12	0.50
3:R:68:VAL:CG1	3:R:69:ALA:N	2.74	0.50
4:T:3:ARG:O	4:T:4:PHE:HB3	2.11	0.50
4:U:8:PHE:CD1	4:U:36:MET:SD	3.04	0.50
4:U:59:TYR:O	4:U:59:TYR:CD2	2.64	0.50
1:A:208:MET:HE3	1:A:212:PHE:CE1	2.46	0.50
1:A:215:LEU:O	1:A:216:VAL:C	2.54	0.50
1:A:310:ILE:C	1:A:312:ILE:N	2.68	0.50
1:C:236:ASP:CG	1:C:237:VAL:N	2.69	0.50
1:C:508:ILE:O	1:C:509:LEU:C	2.54	0.50
2:D:486:THR:CG2	2:D:490:LYS:HE2	2.42	0.50
1:E:236:ASP:CG	1:E:237:VAL:N	2.69	0.50
1:G:57:HIS:C	1:G:59:LEU:N	2.70	0.50
1:G:236:ASP:CG	1:G:237:VAL:N	2.69	0.50
1:G:344:GLN:NE2	1:G:374:ASN:HD22	2.10	0.50
1:G:422:ILE:O	1:G:426:LEU:HD23	2.11	0.50
1:G:438:VAL:O	1:G:442:ILE:HD13	2.12	0.50
2:H:262:VAL:HB	2:H:266:PHE:CE1	2.46	0.50
2:H:437:ASP:C	2:H:439:ASP:H	2.20	0.50
2:H:483:GLN:O	2:H:484:LEU:C	2.55	0.50
1:I:50:VAL:O	1:I:53:LEU:HB3	2.12	0.50
1:I:236:ASP:CG	1:I:237:VAL:N	2.69	0.50
1:I:252:LEU:HD23	1:I:252:LEU:C	2.37	0.50
1:I:353:CYS:C	1:I:355:LYS:N	2.69	0.50
1:I:488:VAL:C	1:I:500:VAL:HG11	2.36	0.50
2:J:75:ASN:HD22	2:J:75:ASN:N	2.08	0.50
2:J:543:ALA:O	2:J:545:LYS:HG3	2.11	0.50
1:K:364:ARG:HG2	1:K:364:ARG:NH1	2.25	0.50
1:K:451:MET:SD	1:K:451:MET:N	2.85	0.50
2:L:200:LYS:HB2	2:L:203:SER:CB	2.41	0.50
3:M:96:LYS:HG3	3:M:97:GLU:HG3	1.92	0.50
3:N:60:ILE:O	3:N:60:ILE:HG13	2.10	0.50
3:N:240:GLN:C	3:N:242:VAL:H	2.20	0.50
3:N:242:VAL:HG12	3:N:243:ARG:N	2.27	0.50
3:N:269:LEU:N	3:N:269:LEU:CD2	2.70	0.50
3:N:380:PHE:CE1	3:N:414:GLN:C	2.86	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:O:32:HIS:O	3:O:35:PRO:HD2	2.11	0.50
3:O:104:ARG:CA	3:O:107:PHE:HE1	2.25	0.50
3:P:380:PHE:CE1	3:P:414:GLN:C	2.86	0.50
3:R:60:ILE:HG13	3:R:60:ILE:O	2.10	0.50
3:R:279:ILE:CG2	3:R:280:GLU:N	2.75	0.50
3:R:388:SER:OG	3:R:389:GLY:N	2.45	0.50
3:R:416:GLY:C	3:R:418:TYR:N	2.65	0.50
4:S:107:PHE:O	4:S:110:ALA:HB3	2.12	0.50
4:T:8:PHE:CE1	4:T:36:MET:HG2	2.46	0.50
4:U:80:THR:O	4:U:81:LEU:C	2.54	0.50
3:V:242:VAL:HG12	3:V:243:ARG:N	2.27	0.50
3:V:306:THR:HG22	3:V:349:PRO:CA	2.35	0.50
4:W:30:LYS:HZ3	4:W:33:ARG:NH2	2.09	0.50
4:X:8:PHE:CE1	4:X:36:MET:HG2	2.46	0.50
1:A:67:GLN:HG3	1:A:93:LEU:HD23	1.94	0.50
1:A:115:THR:HB	1:A:118:VAL:CG2	2.42	0.50
1:A:195:VAL:O	1:A:196:VAL:C	2.55	0.50
2:B:128:LYS:O	2:B:129:CYS:C	2.55	0.50
1:C:254:ARG:HB2	1:C:295:THR:CG2	2.42	0.50
1:C:413:PRO:HD2	1:C:417:TRP:CZ3	2.47	0.50
2:D:191:HIS:HA	2:D:195:ASN:HD22	1.70	0.50
2:D:191:HIS:O	2:D:191:HIS:CG	2.64	0.50
2:D:449:ILE:O	2:D:450:TRP:C	2.52	0.50
1:E:289:LEU:HD12	1:E:289:LEU:N	2.27	0.50
1:E:551:TYR:C	1:E:553:SER:N	2.69	0.50
1:E:562:ARG:O	1:E:565:GLU:HB2	2.10	0.50
2:F:566:TYR:HD1	2:F:566:TYR:H	1.58	0.50
1:G:5:ILE:HB	1:G:52:LYS:NZ	2.27	0.50
1:G:252:LEU:HD23	1:G:252:LEU:C	2.37	0.50
1:G:445:ILE:HD13	1:G:455:THR:HG21	1.94	0.50
1:G:551:TYR:C	1:G:553:SER:H	2.20	0.50
1:I:115:THR:HB	1:I:118:VAL:CG2	2.42	0.50
1:I:197:LEU:C	1:I:197:LEU:CD1	2.85	0.50
1:I:395:GLU:HB2	1:I:396:PHE:CD1	2.46	0.50
1:I:448:SER:HB3	1:I:451:MET:HE1	1.93	0.50
1:I:513:LEU:HD12	1:I:513:LEU:H	1.77	0.50
1:I:523:ARG:O	1:I:526:ALA:HB3	2.12	0.50
2:J:128:LYS:O	2:J:129:CYS:C	2.55	0.50
2:J:182:ALA:O	2:J:185:SER:N	2.45	0.50
2:J:475:ASP:O	2:J:475:ASP:OD1	2.29	0.50
1:K:257:GLY:O	1:K:258:ARG:C	2.55	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:353:CYS:C	1:K:355:LYS:N	2.69	0.50
1:K:551:TYR:C	1:K:553:SER:H	2.20	0.50
2:L:112:CYS:C	2:L:113:ILE:HD12	2.37	0.50
2:L:169:ILE:CG2	2:L:170:SER:N	2.70	0.50
2:L:465:LEU:O	2:L:466:LEU:C	2.54	0.50
2:L:483:GLN:O	2:L:484:LEU:C	2.55	0.50
3:O:173:LEU:C	3:O:174:ASP:OD2	2.55	0.50
3:O:210:LEU:HD13	3:O:211:ARG:N	2.27	0.50
3:P:32:HIS:O	3:P:35:PRO:HD2	2.11	0.50
4:Q:8:PHE:CD1	4:Q:36:MET:SD	3.04	0.50
4:Q:96:GLY:O	4:Q:97:SER:C	2.55	0.50
3:R:173:LEU:C	3:R:174:ASP:OD2	2.55	0.50
3:R:283:ILE:O	3:R:284:GLU:CG	2.59	0.50
4:S:109:LYS:HA	4:S:112:PHE:CD1	2.35	0.50
4:U:88:VAL:CG2	4:U:89:GLU:N	2.75	0.50
3:V:33:PHE:O	3:V:34:MET:C	2.54	0.50
3:V:173:LEU:C	3:V:174:ASP:OD2	2.55	0.50
4:W:96:GLY:O	4:W:97:SER:C	2.55	0.50
4:X:7:LEU:O	4:X:15:ARG:N	2.41	0.50
1:A:223:LEU:O	1:A:224:LYS:C	2.54	0.49
1:A:333:LEU:HD12	1:A:333:LEU:N	2.25	0.49
1:A:395:GLU:HB2	1:A:396:PHE:CD1	2.46	0.49
1:A:438:VAL:O	1:A:442:ILE:HD13	2.12	0.49
1:A:449:VAL:O	1:A:449:VAL:HG12	2.12	0.49
2:B:385:GLU:C	2:B:387:SER:N	2.67	0.49
1:C:83:ARG:HA	1:C:121:LEU:CD1	2.41	0.49
1:C:217:PRO:O	1:C:220:VAL:HB	2.12	0.49
1:C:405:PHE:O	1:C:406:LEU:C	2.54	0.49
1:C:482:GLU:CD	1:C:584:MET:HG2	2.36	0.49
2:D:385:GLU:C	2:D:387:SER:N	2.67	0.49
2:D:566:TYR:HD1	2:D:566:TYR:H	1.58	0.49
1:E:67:GLN:HG3	1:E:93:LEU:HD23	1.94	0.49
1:E:257:GLY:O	1:E:258:ARG:C	2.55	0.49
1:E:513:LEU:HD12	1:E:513:LEU:H	1.77	0.49
2:F:112:CYS:C	2:F:113:ILE:HD12	2.37	0.49
2:F:128:LYS:O	2:F:129:CYS:C	2.55	0.49
1:G:439:PRO:O	1:G:440:ASN:C	2.55	0.49
2:H:112:CYS:C	2:H:113:ILE:HD12	2.37	0.49
2:H:241:CYS:C	2:H:243:ARG:N	2.70	0.49
2:H:452:VAL:CG1	2:H:453:GLY:H	2.24	0.49
1:I:67:GLN:HG3	1:I:93:LEU:HD23	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:451:MET:SD	1:I:451:MET:N	2.85	0.49
1:K:23:GLU:O	1:K:24:ARG:C	2.54	0.49
1:K:189:GLY:O	1:K:190:VAL:C	2.54	0.49
1:K:252:LEU:HD23	1:K:252:LEU:C	2.37	0.49
1:K:386:LEU:O	1:K:387:TYR:C	2.54	0.49
1:K:522:THR:O	1:K:523:ARG:C	2.53	0.49
1:K:523:ARG:O	1:K:526:ALA:HB3	2.12	0.49
2:L:394:THR:O	2:L:395:LEU:C	2.54	0.49
2:L:475:ASP:O	2:L:475:ASP:OD1	2.29	0.49
3:M:283:ILE:O	3:M:284:GLU:CG	2.59	0.49
3:N:210:LEU:HD13	3:N:211:ARG:N	2.27	0.49
3:N:283:ILE:O	3:N:284:GLU:CG	2.59	0.49
3:O:83:PHE:CD1	3:O:83:PHE:C	2.89	0.49
3:O:279:ILE:CG2	3:O:280:GLU:N	2.75	0.49
3:O:321:ASP:OD1	3:O:322:SER:N	2.38	0.49
3:P:178:ALA:CA	3:P:415:ASN:HB2	2.42	0.49
3:R:32:HIS:O	3:R:35:PRO:HD2	2.12	0.49
3:R:83:PHE:O	3:R:84:LEU:C	2.54	0.49
4:S:3:ARG:O	4:S:4:PHE:HB3	2.11	0.49
3:V:245:SER:HB2	3:V:252:THR:HB	1.88	0.49
4:X:25:ASP:O	4:X:28:ARG:HB2	2.11	0.49
1:A:289:LEU:HD12	1:A:289:LEU:N	2.27	0.49
2:B:191:HIS:O	2:B:191:HIS:CG	2.64	0.49
2:B:241:CYS:C	2:B:243:ARG:N	2.70	0.49
2:B:405:TYR:O	2:B:408:GLN:HG3	2.13	0.49
1:C:10:LEU:O	1:C:11:ILE:C	2.53	0.49
1:C:61:TYR:HB3	1:C:62:PRO:HD2	1.94	0.49
1:C:115:THR:HB	1:C:118:VAL:CG2	2.42	0.49
1:C:197:LEU:C	1:C:197:LEU:CD1	2.85	0.49
1:C:395:GLU:CD	1:C:395:GLU:H	2.21	0.49
1:C:533:LEU:O	1:C:534:SER:C	2.56	0.49
2:D:112:CYS:C	2:D:113:ILE:HD12	2.37	0.49
1:E:134:MET:O	1:E:137:ASP:HB2	2.12	0.49
1:E:212:PHE:O	1:E:216:VAL:CG2	2.55	0.49
1:E:556:ASP:OD2	1:E:558:GLU:HB3	2.12	0.49
2:F:486:THR:CG2	2:F:490:LYS:HE2	2.41	0.49
2:F:519:LEU:C	2:F:519:LEU:HD13	2.36	0.49
1:G:61:TYR:HB3	1:G:62:PRO:CD	2.42	0.49
1:G:137:ASP:HB2	1:G:138:LEU:HD22	1.93	0.49
1:G:197:LEU:C	1:G:197:LEU:CD1	2.85	0.49
1:G:378:ILE:HD11	1:G:411:TYR:CB	2.42	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:508:ILE:O	1:G:509:LEU:C	2.54	0.49
1:G:566:TYR:O	1:G:567:ASN:C	2.55	0.49
1:I:172:MET:N	1:I:172:MET:CE	2.68	0.49
1:I:310:ILE:C	1:I:312:ILE:N	2.68	0.49
1:I:324:ILE:O	1:I:325:ARG:C	2.54	0.49
1:I:540:THR:C	1:I:542:ASN:N	2.65	0.49
1:K:11:ILE:HG12	1:K:55:TYR:CE2	2.47	0.49
1:K:137:ASP:HB2	1:K:138:LEU:HD22	1.93	0.49
1:K:161:ALA:O	1:K:164:VAL:HB	2.13	0.49
1:K:488:VAL:C	1:K:500:VAL:HG11	2.36	0.49
1:K:513:LEU:HD12	1:K:513:LEU:H	1.77	0.49
1:K:566:TYR:O	1:K:567:ASN:C	2.55	0.49
2:L:179:ASN:O	2:L:180:ARG:C	2.55	0.49
2:L:262:VAL:HB	2:L:266:PHE:HE1	1.77	0.49
2:L:311:GLN:CD	2:L:555:ILE:HB	2.38	0.49
3:M:240:GLN:C	3:M:242:VAL:H	2.20	0.49
3:N:65:LEU:HD11	3:N:99:GLU:CA	2.42	0.49
3:O:380:PHE:CD1	3:O:380:PHE:N	2.76	0.49
3:P:388:SER:OG	3:P:389:GLY:N	2.45	0.49
3:R:112:GLU:OE1	3:R:136:THR:N	2.39	0.49
3:R:194:ILE:HG13	3:R:194:ILE:O	2.10	0.49
3:R:265:MET:HG2	3:R:266:SER:N	2.27	0.49
3:V:65:LEU:HD11	3:V:99:GLU:CA	2.42	0.49
3:V:118:MET:HG3	3:V:119:ASP:N	2.25	0.49
3:V:283:ILE:O	3:V:284:GLU:CG	2.59	0.49
1:A:113:HIS:CD2	1:A:118:VAL:HG21	2.47	0.49
1:A:218:GLN:O	1:A:219:LEU:C	2.55	0.49
2:B:41:MET:HG2	2:B:42:THR:N	2.27	0.49
2:B:148:LEU:HA	2:B:151:ILE:CG1	2.42	0.49
2:B:437:ASP:C	2:B:439:ASP:H	2.20	0.49
2:B:563:LEU:C	2:B:565:CYS:N	2.70	0.49
1:C:289:LEU:HD12	1:C:289:LEU:N	2.27	0.49
1:C:386:LEU:O	1:C:387:TYR:C	2.54	0.49
1:E:113:HIS:CD2	1:E:118:VAL:HG21	2.47	0.49
1:E:310:ILE:O	1:E:312:ILE:N	2.45	0.49
1:E:326:TYR:O	1:E:327:VAL:C	2.54	0.49
1:E:458:ARG:O	1:E:459:LEU:C	2.55	0.49
1:E:470:GLN:NE2	1:E:517:MET:O	2.46	0.49
1:G:271:LEU:HD12	1:G:296:ILE:HG12	1.95	0.49
2:H:333:TYR:CD1	2:H:334:VAL:N	2.80	0.49
2:H:491:LEU:HD12	2:H:492:PHE:H	1.71	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:212:PHE:O	1:I:216:VAL:CG2	2.55	0.49
1:I:470:GLN:NE2	1:I:517:MET:O	2.46	0.49
2:J:200:LYS:HB2	2:J:203:SER:CB	2.41	0.49
2:J:311:GLN:CD	2:J:555:ILE:HB	2.38	0.49
2:J:537:ALA:O	2:J:538:LYS:C	2.56	0.49
1:K:61:TYR:HB3	1:K:62:PRO:CD	2.42	0.49
1:K:155:LYS:HB2	1:K:193:THR:HG21	1.95	0.49
2:L:128:LYS:O	2:L:129:CYS:C	2.55	0.49
2:L:148:LEU:HA	2:L:151:ILE:CG1	2.42	0.49
2:L:351:ILE:CD1	2:L:384:VAL:HG11	2.42	0.49
2:L:377:ILE:HG21	2:L:395:LEU:CD2	2.39	0.49
2:L:420:LYS:HB3	2:L:421:TYR:CE2	2.46	0.49
2:L:530:LEU:C	2:L:532:THR:H	2.21	0.49
2:L:536:ALA:O	2:L:540:VAL:HG23	2.12	0.49
3:O:242:VAL:HG12	3:O:243:ARG:N	2.27	0.49
4:Q:30:LYS:HA	4:Q:30:LYS:NZ	2.26	0.49
4:U:107:PHE:O	4:U:110:ALA:HB3	2.12	0.49
3:V:210:LEU:HD13	3:V:211:ARG:N	2.27	0.49
3:V:240:GLN:C	3:V:242:VAL:H	2.20	0.49
3:V:277:ILE:N	3:V:418:TYR:OH	2.40	0.49
4:W:88:VAL:CG2	4:W:89:GLU:N	2.75	0.49
1:A:313:LEU:O	1:A:314:GLY:C	2.55	0.49
1:A:347:ARG:O	1:A:350:ILE:N	2.45	0.49
1:A:395:GLU:H	1:A:395:GLU:CD	2.20	0.49
1:A:439:PRO:O	1:A:440:ASN:C	2.55	0.49
1:A:448:SER:HB3	1:A:451:MET:HE1	1.93	0.49
1:A:525:TYR:CE1	2:B:518:ASP:HB2	2.48	0.49
2:B:426:GLU:O	2:B:429:ILE:CD1	2.60	0.49
1:C:57:HIS:C	1:C:59:LEU:N	2.70	0.49
1:C:197:LEU:HD13	1:C:201:MET:HG3	1.93	0.49
2:D:55:VAL:O	2:D:57:CYS:N	2.44	0.49
2:D:179:ASN:O	2:D:180:ARG:C	2.55	0.49
2:D:241:CYS:C	2:D:243:ARG:N	2.70	0.49
2:D:262:VAL:HB	2:D:266:PHE:HE1	1.77	0.49
1:E:5:ILE:HB	1:E:52:LYS:NZ	2.27	0.49
1:E:252:LEU:HD23	1:E:252:LEU:C	2.37	0.49
1:E:438:VAL:O	1:E:442:ILE:HD13	2.12	0.49
2:F:394:THR:HA	2:F:397:ASP:HB2	1.95	0.49
2:F:465:LEU:O	2:F:466:LEU:C	2.54	0.49
1:G:80:THR:O	1:G:81:ASP:C	2.55	0.49
1:G:140:GLY:O	1:G:141:GLU:C	2.53	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:513:LEU:HD12	1:G:513:LEU:H	1.77	0.49
1:G:533:LEU:O	1:G:534:SER:C	2.56	0.49
2:H:182:ALA:O	2:H:185:SER:N	2.45	0.49
2:H:252:ASN:O	2:H:254:ALA:N	2.46	0.49
2:H:262:VAL:HB	2:H:266:PHE:HE1	1.77	0.49
2:H:405:TYR:O	2:H:408:GLN:HG3	2.13	0.49
2:H:465:LEU:O	2:H:466:LEU:C	2.54	0.49
1:I:86:TYR:HE2	1:I:122:ALA:HA	1.76	0.49
1:I:333:LEU:HD12	1:I:333:LEU:N	2.26	0.49
1:I:439:PRO:O	1:I:440:ASN:C	2.55	0.49
2:J:305:ASN:ND2	2:J:572:SER:O	2.44	0.49
2:J:351:ILE:CD1	2:J:384:VAL:HG11	2.43	0.49
2:J:486:THR:O	2:J:489:VAL:HB	2.13	0.49
2:J:569:THR:CG2	3:R:74:ASN:HD21	2.26	0.49
1:K:556:ASP:OD2	1:K:558:GLU:HB3	2.12	0.49
2:L:569:THR:HG22	2:L:570:LEU:N	2.27	0.49
3:M:32:HIS:O	3:M:35:PRO:HD2	2.11	0.49
3:N:380:PHE:C	3:N:380:PHE:HD1	2.19	0.49
3:R:104:ARG:CA	3:R:107:PHE:HE1	2.25	0.49
4:S:30:LYS:HA	4:S:30:LYS:NZ	2.26	0.49
4:T:107:PHE:O	4:T:110:ALA:HB3	2.12	0.49
3:V:104:ARG:CA	3:V:107:PHE:CE1	2.94	0.49
3:V:267:TYR:N	3:V:267:TYR:CD1	2.81	0.49
3:V:278:TRP:C	3:V:279:ILE:HG13	2.38	0.49
4:X:96:GLY:O	4:X:97:SER:C	2.55	0.49
4:X:99:CYS:O	4:X:102:ASP:OD2	2.29	0.49
1:A:11:ILE:HG12	1:A:55:TYR:CE2	2.47	0.49
1:A:86:TYR:HE2	1:A:122:ALA:HA	1.76	0.49
1:A:217:PRO:O	1:A:220:VAL:HB	2.12	0.49
1:A:405:PHE:O	1:A:409:GLU:HG2	2.11	0.49
1:A:470:GLN:NE2	1:A:517:MET:O	2.46	0.49
2:B:262:VAL:HB	2:B:266:PHE:HE1	1.77	0.49
1:C:189:GLY:O	1:C:190:VAL:C	2.54	0.49
1:C:445:ILE:HD13	1:C:455:THR:HG21	1.94	0.49
1:C:458:ARG:O	1:C:459:LEU:C	2.55	0.49
1:C:459:LEU:O	1:C:463:ILE:HG13	2.13	0.49
1:C:566:TYR:O	1:C:567:ASN:C	2.55	0.49
2:D:55:VAL:C	2:D:57:CYS:N	2.71	0.49
2:D:113:ILE:CG2	2:D:114:ARG:N	2.74	0.49
2:D:118:ILE:HG23	2:D:119:THR:N	2.28	0.49
2:D:351:ILE:CD1	2:D:384:VAL:HG11	2.42	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:394:THR:O	2:D:395:LEU:C	2.54	0.49
2:D:477:SER:O	2:D:478:THR:C	2.55	0.49
1:E:61:TYR:HB3	1:E:62:PRO:HD2	1.94	0.49
1:E:159:LEU:O	1:E:160:CYS:C	2.55	0.49
1:E:493:GLU:O	1:E:494:GLU:HB2	2.13	0.49
1:E:566:TYR:O	1:E:567:ASN:C	2.55	0.49
2:F:39:ALA:C	2:F:41:MET:H	2.18	0.49
2:F:543:ALA:O	2:F:545:LYS:HG3	2.11	0.49
2:F:569:THR:HG22	2:F:570:LEU:N	2.27	0.49
1:G:195:VAL:O	1:G:196:VAL:C	2.55	0.49
1:G:289:LEU:HD12	1:G:289:LEU:N	2.27	0.49
1:G:466:ASP:O	1:G:467:TYR:CD1	2.53	0.49
1:G:556:ASP:OD2	1:G:558:GLU:HB3	2.12	0.49
2:H:16:PHE:CZ	3:R:416:GLY:HA3	2.48	0.49
2:H:65:LEU:O	2:H:66:LYS:C	2.56	0.49
2:H:285:ALA:CB	2:H:286:PRO:CD	2.87	0.49
2:H:311:GLN:CD	2:H:555:ILE:HB	2.37	0.49
2:H:385:GLU:C	2:H:387:SER:N	2.67	0.49
2:H:486:THR:CG2	2:H:490:LYS:HE2	2.41	0.49
1:I:137:ASP:HB2	1:I:138:LEU:HD22	1.93	0.49
2:J:565:CYS:HB2	2:J:566:TYR:CD1	2.48	0.49
1:K:80:THR:O	1:K:81:ASP:C	2.55	0.49
1:K:344:GLN:NE2	1:K:374:ASN:HD22	2.10	0.49
1:K:378:ILE:HD11	1:K:411:TYR:CB	2.42	0.49
1:K:489:SER:N	1:K:500:VAL:CG1	2.74	0.49
2:L:463:ASP:N	2:L:463:ASP:OD1	2.45	0.49
2:L:480:VAL:CG1	2:L:481:GLN:N	2.76	0.49
2:L:566:TYR:HD1	2:L:566:TYR:H	1.58	0.49
3:M:61:LYS:HD2	3:M:66:TYR:HE2	1.78	0.49
3:O:267:TYR:N	3:O:267:TYR:CD1	2.81	0.49
3:O:380:PHE:C	3:O:380:PHE:HD1	2.19	0.49
3:P:84:LEU:O	3:P:87:VAL:HB	2.13	0.49
3:P:104:ARG:CA	3:P:107:PHE:CE1	2.94	0.49
3:P:210:LEU:HD13	3:P:211:ARG:N	2.27	0.49
4:Q:80:THR:O	4:Q:81:LEU:C	2.54	0.49
4:S:88:VAL:CG2	4:S:89:GLU:N	2.75	0.49
4:T:88:VAL:HA	4:T:91:LEU:HD12	1.94	0.49
3:V:60:ILE:O	3:V:60:ILE:HG13	2.11	0.49
1:A:80:THR:O	1:A:81:ASP:C	2.55	0.49
1:A:197:LEU:C	1:A:197:LEU:CD1	2.85	0.49
1:A:271:LEU:HD12	1:A:296:ILE:HG12	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:493:GLU:O	1:A:494:GLU:HB2	2.13	0.49
1:A:566:TYR:O	1:A:567:ASN:C	2.55	0.49
2:B:311:GLN:CD	2:B:555:ILE:HB	2.38	0.49
2:B:477:SER:O	2:B:478:THR:C	2.56	0.49
2:B:569:THR:HG23	3:M:74:ASN:CG	2.34	0.49
1:C:161:ALA:O	1:C:164:VAL:HB	2.13	0.49
1:C:422:ILE:HG22	1:C:441:LEU:HD12	1.95	0.49
1:C:470:GLN:NE2	1:C:517:MET:O	2.46	0.49
2:D:75:ASN:N	2:D:75:ASN:HD22	2.08	0.49
2:D:405:TYR:O	2:D:406:VAL:C	2.53	0.49
1:E:313:LEU:O	1:E:314:GLY:C	2.55	0.49
1:E:378:ILE:HD11	1:E:411:TYR:CB	2.42	0.49
1:E:395:GLU:CD	1:E:395:GLU:H	2.20	0.49
1:E:525:TYR:CE1	2:F:518:ASP:HB2	2.48	0.49
1:E:551:TYR:C	1:E:553:SER:H	2.20	0.49
2:F:376:ALA:C	2:F:378:GLY:N	2.70	0.49
2:F:486:THR:O	2:F:489:VAL:HB	2.13	0.49
2:F:569:THR:CG2	3:O:74:ASN:HD21	2.26	0.49
1:G:11:ILE:HG12	1:G:55:TYR:CE2	2.47	0.49
1:I:134:MET:O	1:I:137:ASP:HB2	2.12	0.49
1:I:218:GLN:O	1:I:219:LEU:C	2.55	0.49
1:I:254:ARG:HB2	1:I:295:THR:CG2	2.42	0.49
1:I:413:PRO:HD2	1:I:417:TRP:CZ3	2.47	0.49
1:I:422:ILE:HG22	1:I:441:LEU:HD12	1.94	0.49
1:I:525:TYR:CE1	2:J:518:ASP:HB2	2.48	0.49
1:I:556:ASP:OD2	1:I:558:GLU:HB3	2.12	0.49
2:J:65:LEU:O	2:J:66:LYS:C	2.56	0.49
1:K:83:ARG:HA	1:K:121:LEU:CD1	2.41	0.49
1:K:208:MET:HE3	1:K:212:PHE:CE1	2.46	0.49
1:K:470:GLN:NE2	1:K:517:MET:O	2.46	0.49
2:L:118:ILE:HG23	2:L:119:THR:N	2.28	0.49
2:L:124:GLU:HB2	2:L:125:PRO:CD	2.36	0.49
2:L:191:HIS:HA	2:L:195:ASN:HD22	1.70	0.49
2:L:426:GLU:O	2:L:429:ILE:CD1	2.60	0.49
3:N:61:LYS:HD2	3:N:66:TYR:HE2	1.77	0.49
3:O:61:LYS:HD2	3:O:66:TYR:HE2	1.78	0.49
3:P:278:TRP:C	3:P:279:ILE:HG13	2.38	0.49
3:R:242:VAL:HG12	3:R:243:ARG:N	2.27	0.49
4:S:7:LEU:O	4:S:15:ARG:N	2.40	0.49
4:T:88:VAL:CG2	4:T:89:GLU:N	2.75	0.49
3:V:215:ASN:HB2	3:V:391:GLN:H	1.76	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:532:LYS:CA	1:A:581:LEU:HD13	2.35	0.49
1:A:551:TYR:C	1:A:553:SER:H	2.20	0.49
2:B:464:GLU:OE2	1:E:233:PRO:HD2	2.13	0.49
2:B:480:VAL:CG1	2:B:481:GLN:N	2.76	0.49
2:B:486:THR:O	2:B:489:VAL:HB	2.13	0.49
2:B:551:GLU:C	2:B:553:ASP:H	2.21	0.49
1:C:86:TYR:HE2	1:C:122:ALA:HA	1.76	0.49
1:C:419:ILE:HG12	1:C:444:LEU:HD23	1.95	0.49
2:D:41:MET:HG2	2:D:42:THR:N	2.27	0.49
2:D:128:LYS:O	2:D:129:CYS:C	2.55	0.49
2:D:190:SER:C	2:D:192:PRO:HD2	2.34	0.49
2:D:252:ASN:O	2:D:254:ALA:N	2.46	0.49
2:D:426:GLU:O	2:D:429:ILE:CD1	2.60	0.49
1:E:11:ILE:HG12	1:E:55:TYR:CE2	2.47	0.49
1:E:155:LYS:HB2	1:E:193:THR:HG21	1.95	0.49
1:E:344:GLN:NE2	1:E:374:ASN:HD22	2.10	0.49
1:E:413:PRO:HD2	1:E:417:TRP:CZ3	2.47	0.49
1:E:445:ILE:HD13	1:E:455:THR:HG21	1.94	0.49
2:F:107:VAL:O	2:F:108:ARG:C	2.56	0.49
2:F:208:LEU:HD11	2:F:243:ARG:CD	2.41	0.49
2:F:426:GLU:O	2:F:429:ILE:CD1	2.60	0.49
1:G:14:ILE:H	1:G:14:ILE:CD1	2.18	0.49
1:G:222:ILE:O	1:G:225:ASN:HB3	2.13	0.49
1:G:413:PRO:HD2	1:G:417:TRP:CZ3	2.47	0.49
2:H:2:THR:HB	2:J:402:LYS:HE2	1.93	0.49
2:H:351:ILE:CD1	2:H:384:VAL:HG11	2.42	0.49
2:H:387:SER:CA	2:H:390:ARG:HD2	2.24	0.49
2:H:429:ILE:O	2:H:432:LEU:HB3	2.12	0.49
2:H:536:ALA:O	2:H:540:VAL:HG23	2.12	0.49
1:I:57:HIS:C	1:I:59:LEU:N	2.70	0.49
1:I:271:LEU:HD12	1:I:296:ILE:HG12	1.95	0.49
2:J:104:ALA:O	2:J:107:VAL:N	2.43	0.49
2:J:107:VAL:O	2:J:108:ARG:C	2.56	0.49
2:J:148:LEU:HA	2:J:151:ILE:CG1	2.42	0.49
1:K:117:PHE:HD1	1:K:117:PHE:H	1.61	0.49
1:K:152:TYR:OH	4:W:116:GLU:OE1	2.27	0.49
1:K:218:GLN:O	1:K:219:LEU:C	2.55	0.49
1:K:289:LEU:N	1:K:289:LEU:HD12	2.27	0.49
1:K:324:ILE:O	1:K:325:ARG:C	2.54	0.49
1:K:403:GLY:O	1:K:406:LEU:HB2	2.13	0.49
1:K:413:PRO:HD2	1:K:417:TRP:CZ3	2.47	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:419:ILE:HG12	1:K:444:LEU:HD23	1.95	0.49
1:K:525:TYR:CE1	2:L:518:ASP:HB2	2.48	0.49
2:L:442:PRO:O	2:L:443:GLU:C	2.56	0.49
3:M:84:LEU:O	3:M:87:VAL:HB	2.13	0.49
3:M:380:PHE:CE1	3:M:414:GLN:C	2.86	0.49
3:N:388:SER:OG	3:N:389:GLY:N	2.45	0.49
3:O:84:LEU:O	3:O:87:VAL:HB	2.13	0.49
3:O:278:TRP:C	3:O:279:ILE:HG13	2.38	0.49
3:P:33:PHE:O	3:P:34:MET:C	2.54	0.49
3:P:61:LYS:HD2	3:P:66:TYR:HE2	1.78	0.49
3:P:306:THR:HG22	3:P:349:PRO:CA	2.35	0.49
4:Q:71:ILE:CG2	4:Q:72:GLU:H	2.26	0.49
4:Q:88:VAL:CG2	4:Q:89:GLU:N	2.75	0.49
3:R:84:LEU:O	3:R:87:VAL:HB	2.13	0.49
3:R:240:GLN:C	3:R:242:VAL:H	2.20	0.49
4:S:88:VAL:HA	4:S:91:LEU:HD12	1.94	0.49
4:T:8:PHE:CD1	4:T:36:MET:SD	3.04	0.49
4:T:29:LYS:O	4:T:32:VAL:HB	2.12	0.49
3:V:129:LYS:C	3:V:131:LEU:N	2.71	0.49
4:W:107:PHE:O	4:W:110:ALA:HB3	2.12	0.49
1:A:172:MET:HG2	1:A:201:MET:CE	2.43	0.49
1:A:187:ASN:HD22	1:A:187:ASN:C	2.19	0.49
1:A:419:ILE:HG12	1:A:444:LEU:HD23	1.95	0.49
1:A:459:LEU:O	1:A:463:ILE:HG13	2.13	0.49
1:A:513:LEU:HD12	1:A:513:LEU:H	1.77	0.49
2:B:179:ASN:O	2:B:180:ARG:C	2.55	0.49
2:B:257:LEU:O	2:B:260:VAL:N	2.46	0.49
2:B:492:PHE:CD1	2:B:503:VAL:HG21	2.48	0.49
2:B:536:ALA:O	2:B:540:VAL:HG23	2.12	0.49
1:C:11:ILE:HG12	1:C:55:TYR:CE2	2.47	0.49
1:C:218:GLN:O	1:C:219:LEU:C	2.55	0.49
1:C:378:ILE:HD11	1:C:411:TYR:CB	2.42	0.49
1:C:448:SER:HB3	1:C:451:MET:HE1	1.93	0.49
1:C:474:GLN:O	1:C:475:VAL:C	2.53	0.49
2:D:130:LEU:C	2:D:132:ASP:H	2.21	0.49
1:E:308:LEU:O	1:E:309:ALA:C	2.56	0.49
2:F:179:ASN:O	2:F:180:ARG:C	2.55	0.49
2:F:384:VAL:O	2:F:387:SER:OG	2.27	0.49
2:F:437:ASP:C	2:F:439:ASP:H	2.20	0.49
2:F:535:VAL:O	2:F:538:LYS:HB3	2.13	0.49
1:G:189:GLY:O	1:G:190:VAL:C	2.54	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:326:TYR:O	1:G:327:VAL:C	2.54	0.49
1:G:405:PHE:O	1:G:406:LEU:C	2.54	0.49
1:G:459:LEU:O	1:G:463:ILE:HG13	2.13	0.49
2:H:55:VAL:O	2:H:57:CYS:N	2.44	0.49
2:H:99:ASN:O	2:H:102:ILE:N	2.46	0.49
2:H:107:VAL:O	2:H:108:ARG:C	2.56	0.49
2:H:451:ILE:O	2:H:452:VAL:C	2.53	0.49
2:H:492:PHE:CD1	2:H:503:VAL:HG21	2.48	0.49
2:H:569:THR:CG2	3:P:74:ASN:HD21	2.26	0.49
1:I:11:ILE:HG12	1:I:55:TYR:CE2	2.47	0.49
1:I:80:THR:O	1:I:81:ASP:C	2.55	0.49
1:I:159:LEU:O	1:I:160:CYS:C	2.55	0.49
1:I:344:GLN:NE2	1:I:374:ASN:HD22	2.10	0.49
1:I:423:MET:O	1:I:424:ARG:C	2.56	0.49
2:J:99:ASN:O	2:J:102:ILE:N	2.46	0.49
2:J:118:ILE:HG23	2:J:119:THR:N	2.28	0.49
2:J:252:ASN:O	2:J:254:ALA:N	2.46	0.49
2:J:442:PRO:O	2:J:443:GLU:C	2.56	0.49
1:K:14:ILE:H	1:K:14:ILE:CD1	2.18	0.49
1:K:113:HIS:CD2	1:K:118:VAL:HG21	2.47	0.49
1:K:533:LEU:O	1:K:534:SER:C	2.56	0.49
2:L:75:ASN:N	2:L:75:ASN:HD22	2.09	0.49
2:L:551:GLU:C	2:L:553:ASP:H	2.21	0.49
2:L:569:THR:CG2	3:V:74:ASN:HD21	2.26	0.49
3:M:96:LYS:HG2	3:M:143:GLU:HA	1.95	0.49
3:M:278:TRP:C	3:M:279:ILE:HG13	2.38	0.49
3:N:96:LYS:HG2	3:N:143:GLU:HA	1.95	0.49
3:N:278:TRP:C	3:N:279:ILE:HG13	2.38	0.49
3:O:83:PHE:O	3:O:84:LEU:C	2.54	0.49
3:O:178:ALA:CA	3:O:415:ASN:HB2	2.42	0.49
3:O:240:GLN:C	3:O:242:VAL:H	2.20	0.49
3:P:173:LEU:C	3:P:174:ASP:OD2	2.55	0.49
4:Q:88:VAL:HA	4:Q:91:LEU:HD12	1.94	0.49
3:R:33:PHE:O	3:R:34:MET:C	2.54	0.49
3:R:178:ALA:CA	3:R:415:ASN:HB2	2.42	0.49
4:T:7:LEU:O	4:T:15:ARG:N	2.40	0.49
4:T:83:LEU:HD12	4:T:83:LEU:O	2.13	0.49
4:U:88:VAL:HA	4:U:91:LEU:HD12	1.94	0.49
1:A:252:LEU:HD23	1:A:252:LEU:C	2.37	0.49
1:A:257:GLY:O	1:A:258:ARG:C	2.55	0.49
1:A:279:GLU:OE1	1:A:279:GLU:N	2.45	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:55:VAL:C	2:B:57:CYS:N	2.71	0.49
2:B:258:SER:HA	2:B:261:LYS:HE3	1.95	0.49
2:B:351:ILE:CD1	2:B:384:VAL:HG11	2.42	0.49
2:B:394:THR:HA	2:B:397:ASP:HB2	1.95	0.49
2:B:506:VAL:O	2:B:507:LEU:C	2.53	0.49
2:B:569:THR:HG22	2:B:570:LEU:N	2.27	0.49
2:B:569:THR:CG2	3:M:74:ASN:HD21	2.26	0.49
1:C:293:VAL:O	1:C:294:LEU:C	2.54	0.49
1:C:438:VAL:O	1:C:442:ILE:HD13	2.12	0.49
1:C:525:TYR:CE1	2:D:518:ASP:HB2	2.48	0.49
2:D:104:ALA:CB	2:D:136:TYR:HD2	2.20	0.49
2:D:486:THR:O	2:D:489:VAL:HB	2.13	0.49
2:D:516:ASN:O	2:D:517:PRO:C	2.56	0.49
2:D:569:THR:HG22	2:D:570:LEU:N	2.27	0.49
1:E:61:TYR:HB3	1:E:62:PRO:CD	2.42	0.49
1:E:222:ILE:O	1:E:225:ASN:HB3	2.13	0.49
1:E:347:ARG:O	1:E:350:ILE:N	2.45	0.49
1:E:419:ILE:O	1:E:420:ASP:C	2.56	0.49
1:E:449:VAL:O	1:E:449:VAL:HG12	2.13	0.49
2:F:491:LEU:HD12	2:F:492:PHE:H	1.71	0.49
2:F:491:LEU:CD1	2:F:492:PHE:N	2.66	0.49
1:G:23:GLU:O	1:G:24:ARG:C	2.54	0.49
1:G:162:VAL:O	1:G:165:ILE:N	2.46	0.49
1:G:313:LEU:O	1:G:314:GLY:C	2.55	0.49
2:H:394:THR:HA	2:H:397:ASP:HB2	1.95	0.49
2:H:466:LEU:O	2:H:467:GLU:C	2.56	0.49
1:I:293:VAL:O	1:I:294:LEU:C	2.54	0.49
2:J:124:GLU:HB2	2:J:125:PRO:CD	2.36	0.49
2:J:333:TYR:CD1	2:J:334:VAL:N	2.81	0.49
1:K:147:LYS:HA	1:K:147:LYS:CE	2.38	0.49
1:K:172:MET:HG2	1:K:201:MET:CE	2.43	0.49
1:K:439:PRO:O	1:K:440:ASN:C	2.55	0.49
2:L:41:MET:HG2	2:L:42:THR:N	2.27	0.49
2:L:177:VAL:O	2:L:180:ARG:HB2	2.13	0.49
2:L:376:ALA:C	2:L:378:GLY:N	2.70	0.49
3:M:210:LEU:HD13	3:M:211:ARG:N	2.27	0.49
3:M:355:LEU:HD12	3:M:356:MET:H	1.78	0.49
3:M:376:ILE:CG2	3:M:420:LEU:HB2	2.41	0.49
3:N:83:PHE:O	3:N:84:LEU:C	2.54	0.49
3:N:121:GLY:O	3:N:122:TYR:C	2.56	0.49
3:O:118:MET:HG3	3:O:119:ASP:N	2.25	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:P:121:GLY:O	3:P:122:TYR:C	2.56	0.49
3:P:129:LYS:C	3:P:131:LEU:N	2.71	0.49
3:P:133:GLU:HG3	3:P:134:PHE:N	2.28	0.49
3:P:267:TYR:N	3:P:267:TYR:CD1	2.81	0.49
3:R:177:GLU:OE1	3:R:388:SER:HB3	2.13	0.49
4:S:61:ARG:NH1	4:S:63:ALA:O	2.46	0.49
4:S:71:ILE:CG2	4:S:72:GLU:H	2.26	0.49
4:S:88:VAL:HG23	4:S:89:GLU:H	1.78	0.49
3:V:265:MET:HG2	3:V:266:SER:N	2.27	0.49
4:W:61:ARG:NH1	4:W:63:ALA:O	2.46	0.49
4:X:71:ILE:CG2	4:X:72:GLU:H	2.26	0.49
1:A:302:GLU:HG3	1:A:305:LEU:H	1.78	0.49
1:A:419:ILE:O	1:A:420:ASP:C	2.56	0.49
2:B:130:LEU:C	2:B:132:ASP:H	2.21	0.49
2:B:326:VAL:HG21	2:B:369:PHE:CZ	2.47	0.49
2:B:414:ILE:O	2:B:415:LYS:C	2.53	0.49
2:B:486:THR:HG22	2:B:487:ALA:H	1.76	0.49
2:B:486:THR:CG2	2:B:490:LYS:HE2	2.42	0.49
2:B:516:ASN:O	2:B:517:PRO:C	2.56	0.49
2:B:537:ALA:O	2:B:538:LYS:C	2.56	0.49
1:C:222:ILE:O	1:C:225:ASN:HB3	2.13	0.49
1:C:252:LEU:HD23	1:C:252:LEU:C	2.37	0.49
1:C:488:VAL:C	1:C:500:VAL:HG11	2.36	0.49
2:D:311:GLN:CD	2:D:555:ILE:HB	2.38	0.49
2:D:535:VAL:O	2:D:538:LYS:HB3	2.13	0.49
2:D:569:THR:CG2	3:N:74:ASN:HD21	2.26	0.49
1:E:22:GLU:O	1:E:23:GLU:C	2.56	0.49
1:E:117:PHE:H	1:E:117:PHE:HD1	1.61	0.49
1:E:217:PRO:O	1:E:220:VAL:HB	2.12	0.49
1:E:459:LEU:O	1:E:463:ILE:HG13	2.13	0.49
2:F:257:LEU:O	2:F:260:VAL:N	2.46	0.49
2:F:258:SER:HA	2:F:261:LYS:HE3	1.95	0.49
2:F:405:TYR:O	2:F:408:GLN:HG3	2.13	0.49
1:G:172:MET:HG2	1:G:201:MET:CE	2.43	0.49
1:G:366:MET:O	1:G:369:SER:OG	2.24	0.49
1:G:423:MET:O	1:G:424:ARG:C	2.56	0.49
2:H:95:CYS:O	2:H:103:ARG:HD2	2.13	0.49
2:H:148:LEU:HA	2:H:151:ILE:CG1	2.42	0.49
2:H:442:PRO:O	2:H:443:GLU:C	2.56	0.49
2:H:565:CYS:HB2	2:H:566:TYR:CD1	2.48	0.49
1:I:22:GLU:O	1:I:23:GLU:C	2.56	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:61:TYR:HB3	1:I:62:PRO:CD	2.42	0.49
1:I:195:VAL:O	1:I:196:VAL:C	2.55	0.49
1:I:289:LEU:HD12	1:I:289:LEU:N	2.27	0.49
1:I:308:LEU:O	1:I:309:ALA:C	2.56	0.49
1:I:403:GLY:O	1:I:406:LEU:HB2	2.13	0.49
1:I:566:TYR:O	1:I:567:ASN:C	2.55	0.49
1:K:22:GLU:O	1:K:23:GLU:C	2.56	0.49
1:K:57:HIS:C	1:K:59:LEU:N	2.70	0.49
1:K:222:ILE:O	1:K:225:ASN:HB3	2.13	0.49
2:L:184:LEU:O	2:L:185:SER:C	2.56	0.49
2:L:252:ASN:O	2:L:254:ALA:N	2.46	0.49
2:L:323:VAL:CG2	2:L:324:PHE:HD1	2.17	0.49
2:L:326:VAL:HG21	2:L:369:PHE:CZ	2.47	0.49
3:M:7:TYR:CE2	3:M:30:VAL:HB	2.48	0.49
3:M:178:ALA:CA	3:M:415:ASN:HB2	2.42	0.49
3:N:10:ASP:O	3:N:12:LYS:N	2.46	0.49
3:N:119:ASP:C	3:N:121:GLY:H	2.21	0.49
3:O:56:ARG:HG3	3:O:56:ARG:NH1	2.21	0.49
3:P:84:LEU:O	3:P:85:TYR:C	2.56	0.49
3:P:119:ASP:C	3:P:121:GLY:H	2.21	0.49
3:P:240:GLN:C	3:P:242:VAL:H	2.20	0.49
3:R:306:THR:HG22	3:R:349:PRO:CA	2.35	0.49
4:S:83:LEU:HD12	4:S:83:LEU:O	2.13	0.49
4:W:29:LYS:O	4:W:32:VAL:HB	2.13	0.49
4:W:30:LYS:HA	4:W:30:LYS:NZ	2.26	0.49
4:W:35:LEU:O	4:W:36:MET:C	2.53	0.49
4:X:16:LEU:C	4:X:16:LEU:CD1	2.79	0.49
1:A:35:ARG:CD	1:A:65:PHE:HE2	2.21	0.48
1:A:61:TYR:HB3	1:A:62:PRO:CD	2.42	0.48
1:A:264:SER:C	1:A:266:ALA:N	2.71	0.48
1:A:324:ILE:O	1:A:325:ARG:C	2.54	0.48
1:A:430:GLY:O	1:A:433:VAL:N	2.46	0.48
2:B:535:VAL:O	2:B:538:LYS:HB3	2.13	0.48
1:C:61:TYR:HB3	1:C:62:PRO:CD	2.42	0.48
1:C:138:LEU:O	1:C:141:GLU:HB2	2.13	0.48
1:C:172:MET:HG2	1:C:201:MET:CE	2.43	0.48
1:C:489:SER:N	1:C:500:VAL:CG1	2.74	0.48
2:D:95:CYS:O	2:D:103:ARG:HD2	2.13	0.48
2:D:236:GLU:O	2:D:240:ILE:HG13	2.13	0.48
2:D:491:LEU:HD12	2:D:492:PHE:H	1.71	0.48
2:D:551:GLU:C	2:D:553:ASP:H	2.21	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:162:VAL:O	1:E:165:ILE:N	2.46	0.48
1:E:438:VAL:CB	1:E:439:PRO:HD3	2.28	0.48
2:F:241:CYS:C	2:F:243:ARG:N	2.70	0.48
1:G:22:GLU:O	1:G:23:GLU:C	2.56	0.48
1:G:67:GLN:HG3	1:G:93:LEU:HD23	1.94	0.48
1:G:113:HIS:CD2	1:G:118:VAL:HG21	2.47	0.48
1:G:310:ILE:C	1:G:312:ILE:N	2.68	0.48
1:G:419:ILE:O	1:G:420:ASP:C	2.56	0.48
1:G:525:TYR:CE1	2:H:518:ASP:HB2	2.48	0.48
2:H:257:LEU:O	2:H:260:VAL:N	2.46	0.48
2:H:537:ALA:O	2:H:538:LYS:C	2.56	0.48
1:I:61:TYR:HB3	1:I:62:PRO:HD2	1.94	0.48
1:I:419:ILE:O	1:I:420:ASP:C	2.56	0.48
1:I:466:ASP:O	1:I:467:TYR:CD1	2.53	0.48
1:I:551:TYR:C	1:I:553:SER:H	2.20	0.48
2:J:33:ALA:O	2:J:34:VAL:C	2.56	0.48
2:J:180:ARG:O	2:J:181:VAL:C	2.56	0.48
2:J:310:VAL:CG1	2:J:317:LEU:HD21	2.42	0.48
2:J:405:TYR:O	2:J:408:GLN:HG3	2.13	0.48
2:J:483:GLN:O	2:J:484:LEU:C	2.55	0.48
2:J:551:GLU:C	2:J:553:ASP:H	2.21	0.48
1:K:329:LEU:O	1:K:330:THR:C	2.56	0.48
1:K:422:ILE:HG22	1:K:441:LEU:HD12	1.95	0.48
1:K:449:VAL:HG12	1:K:449:VAL:O	2.12	0.48
2:L:333:TYR:CD1	2:L:334:VAL:N	2.81	0.48
2:L:516:ASN:O	2:L:517:PRO:C	2.56	0.48
3:M:267:TYR:N	3:M:267:TYR:CD1	2.81	0.48
3:M:314:ILE:HG12	3:M:376:ILE:HD12	1.95	0.48
3:M:337:GLU:C	3:M:339:SER:H	2.21	0.48
3:N:279:ILE:CG2	3:N:280:GLU:N	2.75	0.48
3:P:65:LEU:HD11	3:P:99:GLU:CA	2.42	0.48
3:P:355:LEU:HD12	3:P:356:MET:H	1.78	0.48
3:R:7:TYR:CE2	3:R:30:VAL:HB	2.48	0.48
4:S:29:LYS:O	4:S:32:VAL:HB	2.13	0.48
4:U:83:LEU:HD12	4:U:83:LEU:O	2.13	0.48
4:U:96:GLY:O	4:U:97:SER:C	2.55	0.48
3:V:177:GLU:OE1	3:V:388:SER:HB3	2.13	0.48
1:A:161:ALA:O	1:A:164:VAL:HB	2.13	0.48
1:A:403:GLY:O	1:A:406:LEU:HB2	2.13	0.48
1:A:415:LYS:HE3	1:A:415:LYS:CA	2.43	0.48
2:B:236:GLU:O	2:B:240:ILE:HG13	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:162:VAL:O	1:C:165:ILE:N	2.46	0.48
1:C:513:LEU:HD12	1:C:513:LEU:H	1.77	0.48
1:C:585:PRO:O	1:C:586:VAL:CG2	2.62	0.48
2:D:99:ASN:O	2:D:102:ILE:N	2.46	0.48
2:D:180:ARG:O	2:D:181:VAL:C	2.56	0.48
2:D:333:TYR:CD1	2:D:334:VAL:N	2.81	0.48
2:D:480:VAL:CG1	2:D:481:GLN:N	2.76	0.48
2:D:530:LEU:C	2:D:532:THR:H	2.21	0.48
2:D:536:ALA:O	2:D:540:VAL:HG23	2.12	0.48
1:E:80:THR:O	1:E:81:ASP:C	2.55	0.48
1:E:172:MET:HG2	1:E:201:MET:CE	2.43	0.48
1:E:218:GLN:O	1:E:219:LEU:C	2.55	0.48
1:E:439:PRO:O	1:E:440:ASN:C	2.55	0.48
2:F:148:LEU:HA	2:F:151:ILE:CG1	2.42	0.48
2:F:236:GLU:O	2:F:240:ILE:HG13	2.14	0.48
2:F:252:ASN:O	2:F:254:ALA:N	2.46	0.48
2:F:477:SER:O	2:F:478:THR:C	2.56	0.48
1:G:329:LEU:O	1:G:330:THR:C	2.56	0.48
1:G:449:VAL:HG12	1:G:449:VAL:O	2.12	0.48
1:G:470:GLN:NE2	1:G:517:MET:O	2.46	0.48
2:H:16:PHE:HZ	3:R:416:GLY:CA	2.26	0.48
2:H:34:VAL:O	2:H:35:LYS:C	2.56	0.48
2:H:480:VAL:CG1	2:H:481:GLN:N	2.76	0.48
2:H:535:VAL:O	2:H:538:LYS:HB3	2.13	0.48
1:I:366:MET:O	1:I:369:SER:OG	2.24	0.48
2:J:426:GLU:O	2:J:429:ILE:CD1	2.60	0.48
2:J:492:PHE:CD1	2:J:503:VAL:HG21	2.48	0.48
2:J:516:ASN:O	2:J:517:PRO:C	2.56	0.48
1:K:197:LEU:C	1:K:197:LEU:CD1	2.85	0.48
2:L:107:VAL:O	2:L:108:ARG:C	2.56	0.48
2:L:437:ASP:C	2:L:439:ASP:H	2.20	0.48
2:L:492:PHE:CD1	2:L:503:VAL:HG21	2.48	0.48
3:M:129:LYS:C	3:M:131:LEU:N	2.71	0.48
3:M:279:ILE:CG2	3:M:280:GLU:N	2.75	0.48
3:N:22:ARG:CG	3:N:23:GLY:N	2.76	0.48
3:N:83:PHE:CE1	3:N:87:VAL:HG22	2.49	0.48
3:N:119:ASP:C	3:N:121:GLY:N	2.71	0.48
3:N:267:TYR:N	3:N:267:TYR:CD1	2.81	0.48
3:P:177:GLU:OE1	3:P:388:SER:HB3	2.13	0.48
3:R:10:ASP:O	3:R:12:LYS:N	2.46	0.48
3:R:121:GLY:O	3:R:122:TYR:C	2.56	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:T:30:LYS:HA	4:T:30:LYS:NZ	2.26	0.48
3:V:119:ASP:C	3:V:121:GLY:H	2.21	0.48
1:A:57:HIS:C	1:A:59:LEU:N	2.70	0.48
1:A:458:ARG:O	1:A:459:LEU:C	2.55	0.48
2:B:104:ALA:O	2:B:107:VAL:N	2.43	0.48
2:B:429:ILE:O	2:B:432:LEU:HB3	2.12	0.48
1:C:5:ILE:HB	1:C:52:LYS:NZ	2.27	0.48
1:C:22:GLU:O	1:C:23:GLU:C	2.56	0.48
1:C:67:GLN:HG3	1:C:93:LEU:HD23	1.94	0.48
1:C:80:THR:O	1:C:81:ASP:C	2.55	0.48
1:C:113:HIS:CD2	1:C:118:VAL:HG21	2.47	0.48
1:C:439:PRO:O	1:C:440:ASN:C	2.55	0.48
2:D:107:VAL:O	2:D:108:ARG:C	2.56	0.48
2:D:257:LEU:CD1	2:D:567:ILE:HG22	2.39	0.48
2:D:395:LEU:O	2:D:396:LEU:C	2.53	0.48
1:E:115:THR:HB	1:E:118:VAL:CG2	2.42	0.48
2:F:115:VAL:O	2:F:118:ILE:CG2	2.51	0.48
2:F:118:ILE:HG23	2:F:119:THR:N	2.28	0.48
2:F:148:LEU:HA	2:F:151:ILE:HD11	1.92	0.48
2:F:204:ILE:HA	2:F:207:LEU:CD1	2.44	0.48
2:F:220:ILE:O	2:F:223:LEU:N	2.47	0.48
2:F:333:TYR:CD1	2:F:334:VAL:N	2.81	0.48
2:F:351:ILE:CD1	2:F:384:VAL:HG11	2.42	0.48
2:F:390:ARG:HH11	2:F:390:ARG:CG	2.27	0.48
2:F:536:ALA:O	2:F:540:VAL:HG23	2.12	0.48
2:F:563:LEU:C	2:F:565:CYS:N	2.70	0.48
1:G:161:ALA:O	1:G:164:VAL:HB	2.13	0.48
1:G:551:TYR:C	1:G:553:SER:N	2.69	0.48
2:H:55:VAL:C	2:H:57:CYS:N	2.71	0.48
2:H:71:LEU:O	2:H:72:TYR:C	2.53	0.48
1:I:113:HIS:CD2	1:I:118:VAL:HG21	2.47	0.48
1:I:155:LYS:HB2	1:I:193:THR:HG21	1.95	0.48
1:I:161:ALA:O	1:I:164:VAL:HB	2.13	0.48
1:I:302:GLU:HG3	1:I:305:LEU:H	1.78	0.48
1:I:445:ILE:HD13	1:I:455:THR:HG21	1.94	0.48
2:J:130:LEU:C	2:J:132:ASP:H	2.21	0.48
2:J:208:LEU:HD11	2:J:243:ARG:CD	2.41	0.48
2:J:480:VAL:CG1	2:J:481:GLN:N	2.76	0.48
2:J:486:THR:HG22	2:J:487:ALA:H	1.76	0.48
2:J:536:ALA:O	2:J:540:VAL:HG23	2.12	0.48
1:K:271:LEU:HD12	1:K:296:ILE:HG12	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:466:ASP:O	1:K:467:TYR:CD1	2.53	0.48
2:L:34:VAL:O	2:L:35:LYS:C	2.56	0.48
2:L:99:ASN:O	2:L:102:ILE:N	2.46	0.48
2:L:535:VAL:O	2:L:538:LYS:HB3	2.13	0.48
2:L:565:CYS:HB2	2:L:566:TYR:CD1	2.48	0.48
3:O:96:LYS:HG2	3:O:143:GLU:HA	1.95	0.48
3:O:121:GLY:O	3:O:122:TYR:C	2.56	0.48
3:O:314:ILE:HG12	3:O:376:ILE:HD12	1.95	0.48
3:P:7:TYR:CD1	3:P:7:TYR:N	2.82	0.48
3:P:7:TYR:CE2	3:P:30:VAL:HB	2.48	0.48
3:P:83:PHE:C	3:P:83:PHE:CD1	2.89	0.48
3:P:242:VAL:HG12	3:P:243:ARG:N	2.27	0.48
3:P:337:GLU:C	3:P:339:SER:H	2.21	0.48
4:T:71:ILE:CG2	4:T:75:ASP:HB3	2.43	0.48
3:V:36:ILE:HG22	3:V:50:LEU:HD23	1.96	0.48
4:X:29:LYS:O	4:X:32:VAL:HB	2.12	0.48
4:X:90:LEU:H	4:X:90:LEU:HD22	1.79	0.48
1:A:53:LEU:O	1:A:56:MET:N	2.47	0.48
1:A:155:LYS:HB2	1:A:193:THR:HG21	1.95	0.48
1:A:396:PHE:H	1:A:396:PHE:HD1	1.62	0.48
1:A:445:ILE:HD13	1:A:455:THR:HG21	1.94	0.48
1:A:533:LEU:O	1:A:534:SER:C	2.56	0.48
1:C:279:GLU:OE1	1:C:279:GLU:N	2.45	0.48
1:C:562:ARG:O	1:C:563:ALA:C	2.56	0.48
2:D:34:VAL:O	2:D:35:LYS:C	2.56	0.48
2:D:163:ASP:O	2:D:164:THR:C	2.57	0.48
2:D:230:MET:HB2	2:D:266:PHE:CE2	2.49	0.48
2:D:326:VAL:HG21	2:D:369:PHE:CZ	2.47	0.48
1:E:302:GLU:HG3	1:E:305:LEU:H	1.78	0.48
1:E:422:ILE:HG22	1:E:441:LEU:HD12	1.95	0.48
2:F:41:MET:HG2	2:F:42:THR:N	2.27	0.48
2:F:99:ASN:O	2:F:102:ILE:N	2.46	0.48
2:F:130:LEU:HD23	2:F:130:LEU:HA	1.44	0.48
2:F:442:PRO:O	2:F:443:GLU:C	2.56	0.48
2:F:492:PHE:CD1	2:F:503:VAL:HG21	2.48	0.48
2:F:516:ASN:O	2:F:517:PRO:C	2.56	0.48
1:G:115:THR:HB	1:G:118:VAL:CG2	2.42	0.48
1:G:138:LEU:O	1:G:141:GLU:HB2	2.13	0.48
1:G:159:LEU:O	1:G:160:CYS:C	2.55	0.48
1:G:218:GLN:O	1:G:219:LEU:C	2.55	0.48
1:G:396:PHE:H	1:G:396:PHE:HD1	1.61	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:180:ARG:O	2:H:181:VAL:C	2.56	0.48
2:H:230:MET:HB2	2:H:266:PHE:CE2	2.49	0.48
2:H:236:GLU:O	2:H:240:ILE:HG13	2.13	0.48
2:H:257:LEU:CD1	2:H:567:ILE:HG22	2.39	0.48
2:H:563:LEU:C	2:H:565:CYS:N	2.70	0.48
1:I:157:ALA:O	1:I:160:CYS:N	2.47	0.48
1:I:162:VAL:O	1:I:165:ILE:N	2.46	0.48
1:I:449:VAL:O	1:I:449:VAL:HG12	2.13	0.48
2:J:34:VAL:O	2:J:35:LYS:C	2.56	0.48
2:J:55:VAL:C	2:J:57:CYS:N	2.71	0.48
2:J:477:SER:O	2:J:478:THR:C	2.55	0.48
2:J:510:ALA:CB	2:J:519:LEU:HD11	2.34	0.48
2:L:230:MET:HB2	2:L:266:PHE:CE2	2.49	0.48
3:M:83:PHE:CE1	3:M:87:VAL:HG22	2.49	0.48
3:M:269:LEU:N	3:M:269:LEU:CD2	2.70	0.48
3:N:7:TYR:N	3:N:7:TYR:CD1	2.82	0.48
3:N:84:LEU:O	3:N:85:TYR:C	2.56	0.48
3:O:83:PHE:CE1	3:O:87:VAL:HG22	2.49	0.48
3:O:119:ASP:C	3:O:121:GLY:H	2.21	0.48
3:P:265:MET:HG2	3:P:266:SER:N	2.27	0.48
4:Q:29:LYS:O	4:Q:32:VAL:HB	2.13	0.48
4:Q:76:ASN:HD21	4:Q:78:LEU:HB2	1.78	0.48
4:Q:83:LEU:O	4:Q:83:LEU:HD12	2.13	0.48
3:R:129:LYS:C	3:R:131:LEU:N	2.71	0.48
3:R:278:TRP:C	3:R:279:ILE:HG13	2.38	0.48
3:R:355:LEU:HD12	3:R:356:MET:H	1.78	0.48
4:S:25:ASP:O	4:S:28:ARG:HB2	2.11	0.48
4:S:76:ASN:HD21	4:S:78:LEU:HB2	1.78	0.48
4:U:7:LEU:O	4:U:15:ARG:N	2.40	0.48
4:X:61:ARG:NH1	4:X:63:ALA:O	2.46	0.48
1:A:134:MET:O	1:A:137:ASP:HB2	2.13	0.48
1:A:138:LEU:O	1:A:141:GLU:HB2	2.13	0.48
1:A:201:MET:O	1:A:203:GLU:N	2.42	0.48
1:A:222:ILE:O	1:A:225:ASN:HB3	2.13	0.48
2:B:34:VAL:O	2:B:35:LYS:C	2.56	0.48
2:B:252:ASN:O	2:B:254:ALA:N	2.46	0.48
2:B:485:LEU:C	2:B:485:LEU:CD2	2.87	0.48
1:C:35:ARG:CD	1:C:65:PHE:HE2	2.21	0.48
1:C:224:LYS:O	1:C:225:ASN:C	2.57	0.48
1:C:403:GLY:O	1:C:406:LEU:HB2	2.13	0.48
2:D:177:VAL:O	2:D:180:ARG:HB2	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:216:GLU:HB2	2:D:217:TRP:HE3	1.67	0.48
2:D:257:LEU:O	2:D:260:VAL:N	2.46	0.48
2:D:537:ALA:O	2:D:538:LYS:C	2.56	0.48
1:E:215:LEU:O	1:E:216:VAL:C	2.54	0.48
1:E:232:SER:HA	1:E:233:PRO:HD3	1.71	0.48
1:E:533:LEU:O	1:E:534:SER:C	2.56	0.48
2:F:34:VAL:O	2:F:35:LYS:C	2.56	0.48
2:F:463:ASP:N	2:F:463:ASP:OD1	2.45	0.48
2:F:483:GLN:O	2:F:484:LEU:C	2.55	0.48
1:G:79:PHE:O	1:G:82:LYS:HB2	2.13	0.48
1:G:375:GLY:C	1:G:377:ASN:N	2.71	0.48
1:G:403:GLY:O	1:G:406:LEU:HB2	2.13	0.48
1:G:419:ILE:HG12	1:G:444:LEU:HD23	1.95	0.48
1:G:422:ILE:HG22	1:G:441:LEU:HD12	1.95	0.48
1:G:470:GLN:HB2	1:G:471:PRO:CD	2.34	0.48
2:H:426:GLU:O	2:H:429:ILE:CD1	2.60	0.48
2:H:477:SER:O	2:H:478:THR:C	2.55	0.48
1:I:138:LEU:O	1:I:141:GLU:HB2	2.13	0.48
1:I:419:ILE:HG12	1:I:444:LEU:HD23	1.95	0.48
1:I:493:GLU:O	1:I:494:GLU:HB2	2.13	0.48
1:I:585:PRO:O	1:I:586:VAL:CG2	2.62	0.48
2:J:177:VAL:O	2:J:180:ARG:HB2	2.13	0.48
2:J:184:LEU:O	2:J:185:SER:C	2.56	0.48
2:J:220:ILE:O	2:J:223:LEU:N	2.47	0.48
1:K:138:LEU:O	1:K:141:GLU:HB2	2.13	0.48
1:K:313:LEU:O	1:K:314:GLY:C	2.55	0.48
1:K:585:PRO:O	1:K:586:VAL:CG2	2.62	0.48
2:L:95:CYS:O	2:L:103:ARG:HD2	2.13	0.48
2:L:130:LEU:C	2:L:132:ASP:H	2.21	0.48
2:L:220:ILE:O	2:L:223:LEU:N	2.47	0.48
2:L:394:THR:HA	2:L:397:ASP:HB2	1.95	0.48
3:M:242:VAL:HG12	3:M:243:ARG:N	2.27	0.48
3:N:118:MET:CB	3:N:123:PRO:HA	2.41	0.48
3:N:265:MET:HG2	3:N:266:SER:N	2.27	0.48
3:N:314:ILE:HG12	3:N:376:ILE:HD12	1.95	0.48
3:O:7:TYR:CE2	3:O:30:VAL:HB	2.48	0.48
3:O:76:CYS:HB2	3:O:79:LEU:CD1	2.43	0.48
3:O:177:GLU:OE1	3:O:388:SER:HB3	2.13	0.48
4:Q:61:ARG:NH1	4:Q:63:ALA:O	2.46	0.48
3:R:133:GLU:HG3	3:R:134:PHE:N	2.28	0.48
3:R:337:GLU:C	3:R:339:SER:H	2.21	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:T:76:ASN:HD21	4:T:78:LEU:HB2	1.78	0.48
4:U:16:LEU:C	4:U:16:LEU:CD1	2.79	0.48
4:U:30:LYS:HA	4:U:30:LYS:NZ	2.26	0.48
3:V:76:CYS:HB2	3:V:79:LEU:CD1	2.43	0.48
3:V:380:PHE:CE1	3:V:414:GLN:C	2.86	0.48
4:W:8:PHE:CD1	4:W:36:MET:SD	3.04	0.48
1:A:61:TYR:HB3	1:A:62:PRO:HD2	1.94	0.48
1:A:162:VAL:O	1:A:165:ILE:N	2.46	0.48
1:A:196:VAL:CG1	1:A:248:ARG:HD2	2.44	0.48
1:A:308:LEU:O	1:A:309:ALA:C	2.56	0.48
1:A:372:LEU:N	1:A:372:LEU:CD1	2.69	0.48
2:B:177:VAL:O	2:B:180:ARG:HB2	2.13	0.48
2:B:565:CYS:HB2	2:B:566:TYR:CD1	2.48	0.48
1:C:117:PHE:H	1:C:117:PHE:HD1	1.61	0.48
1:C:449:VAL:HG12	1:C:449:VAL:O	2.13	0.48
1:C:551:TYR:C	1:C:553:SER:N	2.68	0.48
2:D:14:GLU:O	2:D:17:GLU:HB3	2.14	0.48
2:D:65:LEU:O	2:D:66:LYS:C	2.56	0.48
2:D:466:LEU:O	2:D:467:GLU:C	2.56	0.48
2:D:492:PHE:CD1	2:D:503:VAL:HG21	2.48	0.48
1:E:415:LYS:HE3	1:E:415:LYS:CA	2.43	0.48
1:E:531:MET:C	1:E:533:LEU:N	2.71	0.48
2:F:311:GLN:CD	2:F:555:ILE:HB	2.38	0.48
2:F:480:VAL:CG1	2:F:481:GLN:N	2.76	0.48
1:G:187:ASN:HD22	1:G:187:ASN:C	2.19	0.48
1:G:196:VAL:CG1	1:G:248:ARG:HD2	2.44	0.48
2:H:14:GLU:O	2:H:17:GLU:HB3	2.14	0.48
2:H:220:ILE:O	2:H:223:LEU:N	2.47	0.48
2:H:486:THR:O	2:H:489:VAL:HB	2.13	0.48
1:I:5:ILE:O	1:I:52:LYS:NZ	2.46	0.48
1:I:172:MET:HG2	1:I:201:MET:CE	2.43	0.48
1:I:222:ILE:O	1:I:225:ASN:HB3	2.13	0.48
1:I:489:SER:N	1:I:500:VAL:CG1	2.74	0.48
2:J:262:VAL:HB	2:J:266:PHE:HE1	1.77	0.48
2:J:390:ARG:HH11	2:J:390:ARG:CG	2.27	0.48
2:J:463:ASP:N	2:J:463:ASP:OD1	2.45	0.48
1:K:53:LEU:O	1:K:56:MET:N	2.47	0.48
1:K:134:MET:O	1:K:137:ASP:HB2	2.12	0.48
1:K:310:ILE:C	1:K:312:ILE:N	2.68	0.48
1:K:395:GLU:CD	1:K:395:GLU:H	2.21	0.48
1:K:493:GLU:O	1:K:494:GLU:HB2	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:33:ALA:O	2:L:34:VAL:C	2.56	0.48
2:L:466:LEU:O	2:L:467:GLU:C	2.56	0.48
2:L:537:ALA:O	2:L:538:LYS:C	2.56	0.48
3:N:84:LEU:O	3:N:87:VAL:HB	2.13	0.48
3:N:104:ARG:CA	3:N:107:PHE:HE1	2.25	0.48
3:N:133:GLU:HG3	3:N:134:PHE:N	2.28	0.48
3:N:177:GLU:OE1	3:N:388:SER:HB3	2.13	0.48
3:N:376:ILE:CG2	3:N:420:LEU:HB2	2.41	0.48
3:O:22:ARG:CG	3:O:23:GLY:N	2.76	0.48
3:P:60:ILE:CG1	3:P:67:LEU:HB3	2.44	0.48
3:P:119:ASP:C	3:P:121:GLY:N	2.71	0.48
3:P:327:THR:OG1	3:P:356:MET:HG2	2.14	0.48
3:R:61:LYS:HD2	3:R:66:TYR:HE2	1.78	0.48
3:R:83:PHE:CE1	3:R:87:VAL:HG22	2.49	0.48
4:T:71:ILE:HG21	4:T:75:ASP:CB	2.44	0.48
4:T:88:VAL:HG23	4:T:89:GLU:H	1.78	0.48
4:U:29:LYS:O	4:U:32:VAL:HB	2.12	0.48
3:V:7:TYR:CE2	3:V:30:VAL:HB	2.48	0.48
3:V:7:TYR:N	3:V:7:TYR:CD1	2.82	0.48
3:V:10:ASP:O	3:V:12:LYS:N	2.46	0.48
3:V:60:ILE:CG1	3:V:67:LEU:HB3	2.44	0.48
4:X:83:LEU:HD12	4:X:83:LEU:O	2.13	0.48
1:A:178:ALA:O	1:A:182:LEU:HG	2.14	0.48
1:A:378:ILE:HD11	1:A:411:TYR:CB	2.42	0.48
1:A:491:GLN:HG2	1:G:276:THR:HG22	1.95	0.48
2:B:148:LEU:HA	2:B:151:ILE:HD11	1.92	0.48
2:B:390:ARG:HH11	2:B:390:ARG:CG	2.27	0.48
2:B:491:LEU:HD12	2:B:492:PHE:H	1.71	0.48
2:B:566:TYR:HD1	2:B:566:TYR:H	1.58	0.48
1:C:5:ILE:C	1:C:52:LYS:HZ1	2.21	0.48
1:C:53:LEU:O	1:C:56:MET:N	2.47	0.48
1:C:313:LEU:O	1:C:314:GLY:C	2.55	0.48
1:C:329:LEU:O	1:C:330:THR:C	2.56	0.48
2:D:146:ALA:O	2:D:149:HIS:HB3	2.14	0.48
2:D:437:ASP:C	2:D:439:ASP:H	2.20	0.48
2:D:565:CYS:HB2	2:D:566:TYR:CD1	2.48	0.48
1:E:83:ARG:HA	1:E:121:LEU:CD1	2.41	0.48
1:E:396:PHE:H	1:E:396:PHE:HD1	1.62	0.48
1:E:419:ILE:HG12	1:E:444:LEU:HD23	1.95	0.48
1:E:478:TRP:HH2	1:E:532:LYS:NZ	2.12	0.48
1:E:585:PRO:C	1:E:586:VAL:CG2	2.87	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:14:GLU:O	2:F:17:GLU:HB3	2.14	0.48
2:F:230:MET:HB2	2:F:266:PHE:CE2	2.49	0.48
2:F:565:CYS:HB2	2:F:566:TYR:CD1	2.48	0.48
1:G:257:GLY:O	1:G:258:ARG:C	2.55	0.48
1:G:585:PRO:O	1:G:586:VAL:CG2	2.62	0.48
2:H:33:ALA:O	2:H:34:VAL:C	2.56	0.48
2:H:177:VAL:O	2:H:180:ARG:HB2	2.13	0.48
2:H:516:ASN:O	2:H:517:PRO:C	2.56	0.48
1:I:257:GLY:O	1:I:258:ARG:C	2.55	0.48
1:I:396:PHE:H	1:I:396:PHE:HD1	1.62	0.48
1:I:562:ARG:O	1:I:563:ALA:C	2.56	0.48
2:J:95:CYS:O	2:J:103:ARG:HD2	2.13	0.48
2:J:179:ASN:O	2:J:180:ARG:C	2.55	0.48
2:J:241:CYS:C	2:J:243:ARG:N	2.70	0.48
1:K:246:GLN:O	1:K:249:ILE:HB	2.14	0.48
1:K:301:SER:HB2	1:K:305:LEU:HD23	1.96	0.48
1:K:308:LEU:O	1:K:309:ALA:C	2.56	0.48
1:K:419:ILE:O	1:K:420:ASP:C	2.56	0.48
2:L:105:LEU:HD23	2:L:108:ARG:HD3	1.96	0.48
2:L:390:ARG:CG	2:L:390:ARG:HH11	2.26	0.48
2:L:405:TYR:O	2:L:408:GLN:HG3	2.13	0.48
3:M:36:ILE:HG22	3:M:50:LEU:HD23	1.96	0.48
3:M:121:GLY:O	3:M:122:TYR:C	2.56	0.48
3:M:356:MET:SD	3:M:356:MET:C	2.97	0.48
3:N:7:TYR:CE2	3:N:30:VAL:HB	2.48	0.48
3:N:32:HIS:O	3:N:33:PHE:C	2.57	0.48
3:N:58:MET:HB2	3:N:69:ALA:HB3	1.96	0.48
3:N:355:LEU:HD12	3:N:356:MET:H	1.78	0.48
3:O:133:GLU:HG3	3:O:134:PHE:N	2.28	0.48
3:O:399:GLU:HG3	3:O:401:SER:N	2.29	0.48
3:P:10:ASP:O	3:P:12:LYS:N	2.46	0.48
3:P:126:THR:CG2	3:P:131:LEU:HD13	2.41	0.48
3:P:380:PHE:CD1	3:P:380:PHE:N	2.76	0.48
4:Q:84:ILE:O	4:Q:85:HIS:C	2.57	0.48
4:Q:90:LEU:H	4:Q:90:LEU:HD22	1.79	0.48
3:R:36:ILE:HG22	3:R:50:LEU:HD23	1.96	0.48
3:R:119:ASP:C	3:R:121:GLY:H	2.21	0.48
3:R:356:MET:SD	3:R:356:MET:C	2.97	0.48
4:S:84:ILE:O	4:S:85:HIS:C	2.57	0.48
4:T:61:ARG:NH1	4:T:63:ALA:O	2.46	0.48
4:T:84:ILE:O	4:T:85:HIS:C	2.57	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:U:61:ARG:NH1	4:U:63:ALA:O	2.46	0.48
3:V:58:MET:HB2	3:V:69:ALA:HB3	1.96	0.48
3:V:84:LEU:O	3:V:87:VAL:HB	2.13	0.48
3:V:408:TRP:N	3:V:408:TRP:HD1	2.12	0.48
4:X:84:ILE:O	4:X:85:HIS:C	2.57	0.48
1:A:451:MET:SD	1:A:451:MET:N	2.85	0.48
2:B:105:LEU:HD23	2:B:108:ARG:HD3	1.96	0.48
2:B:283:LYS:O	2:B:287:PRO:CD	2.62	0.48
2:B:307:ASN:ND2	2:B:344:ARG:NH1	2.62	0.48
1:C:57:HIS:O	1:C:58:MET:C	2.57	0.48
1:C:134:MET:O	1:C:137:ASP:HB2	2.13	0.48
1:C:255:ILE:HG23	1:C:256:LEU:N	2.29	0.48
1:C:271:LEU:HD12	1:C:296:ILE:HG12	1.95	0.48
1:C:415:LYS:HE3	1:C:415:LYS:CA	2.43	0.48
1:C:453:ALA:C	1:C:455:THR:N	2.72	0.48
2:D:105:LEU:HD23	2:D:108:ARG:HD3	1.96	0.48
2:D:405:TYR:O	2:D:408:GLN:HG3	2.13	0.48
1:E:353:CYS:C	1:E:355:LYS:N	2.69	0.48
1:E:403:GLY:O	1:E:406:LEU:HB2	2.13	0.48
2:F:65:LEU:O	2:F:66:LYS:C	2.56	0.48
2:F:191:HIS:O	2:F:191:HIS:CG	2.64	0.48
1:G:195:VAL:O	1:G:198:LEU:N	2.47	0.48
2:H:390:ARG:CG	2:H:390:ARG:HH11	2.27	0.48
1:I:208:MET:C	1:I:212:PHE:HB2	2.39	0.48
1:I:378:ILE:HD11	1:I:411:TYR:CB	2.42	0.48
2:J:191:HIS:O	2:J:191:HIS:CG	2.64	0.48
2:J:230:MET:HB2	2:J:266:PHE:CE2	2.49	0.48
2:J:236:GLU:O	2:J:240:ILE:HG13	2.13	0.48
2:J:485:LEU:C	2:J:485:LEU:CD2	2.87	0.48
1:K:415:LYS:HE3	1:K:415:LYS:CA	2.43	0.48
1:K:423:MET:O	1:K:424:ARG:C	2.56	0.48
1:K:532:LYS:CA	1:K:581:LEU:HD13	2.35	0.48
2:L:241:CYS:C	2:L:243:ARG:N	2.70	0.48
2:L:399:ILE:C	2:L:401:THR:N	2.72	0.48
2:L:485:LEU:C	2:L:485:LEU:CD2	2.87	0.48
2:L:486:THR:HG22	2:L:487:ALA:H	1.76	0.48
2:L:563:LEU:C	2:L:565:CYS:N	2.70	0.48
3:N:60:ILE:CG1	3:N:67:LEU:HB3	2.44	0.48
3:N:126:THR:CG2	3:N:131:LEU:HD13	2.40	0.48
3:N:178:ALA:CA	3:N:415:ASN:HB2	2.43	0.48
3:O:58:MET:HB2	3:O:69:ALA:HB3	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:O:337:GLU:C	3:O:339:SER:H	2.22	0.48
3:P:32:HIS:O	3:P:33:PHE:C	2.57	0.48
3:P:215:ASN:HB2	3:P:391:GLN:O	2.14	0.48
3:P:279:ILE:CG2	3:P:280:GLU:N	2.75	0.48
4:Q:52:TRP:O	4:Q:55:LEU:N	2.47	0.48
4:Q:88:VAL:HG23	4:Q:89:GLU:H	1.78	0.48
3:R:76:CYS:HB2	3:R:79:LEU:CD1	2.43	0.48
3:R:96:LYS:HG2	3:R:143:GLU:HA	1.95	0.48
4:U:84:ILE:O	4:U:85:HIS:C	2.57	0.48
3:V:178:ALA:CA	3:V:415:ASN:HB2	2.42	0.48
3:V:198:ILE:HD12	3:V:265:MET:HB3	1.96	0.48
3:V:356:MET:SD	3:V:356:MET:C	2.97	0.48
4:W:52:TRP:O	4:W:55:LEU:N	2.47	0.48
4:W:76:ASN:HD21	4:W:78:LEU:HB2	1.78	0.48
4:W:84:ILE:O	4:W:85:HIS:C	2.57	0.48
2:B:60:THR:CG2	2:B:61:ASP:N	2.70	0.48
2:B:333:TYR:CD1	2:B:334:VAL:N	2.81	0.48
1:C:430:GLY:O	1:C:433:VAL:N	2.46	0.48
1:C:561:GLN:HE21	1:C:565:GLU:HG3	1.79	0.48
2:D:258:SER:HA	2:D:261:LYS:HE3	1.95	0.48
1:E:53:LEU:O	1:E:56:MET:N	2.47	0.48
1:E:67:GLN:O	1:E:70:CYS:CB	2.56	0.48
1:E:195:VAL:O	1:E:198:LEU:N	2.47	0.48
1:E:196:VAL:CG1	1:E:248:ARG:HD2	2.44	0.48
1:E:405:PHE:O	1:E:406:LEU:C	2.54	0.48
2:F:67:LYS:O	2:F:70:TYR:N	2.47	0.48
2:F:146:ALA:O	2:F:149:HIS:HB3	2.14	0.48
2:F:262:VAL:HB	2:F:266:PHE:HE1	1.77	0.48
2:F:283:LYS:O	2:F:287:PRO:CD	2.62	0.48
2:F:353:GLN:O	2:F:354:VAL:C	2.57	0.48
2:F:453:GLY:O	2:F:454:GLU:C	2.57	0.48
1:G:53:LEU:O	1:G:56:MET:N	2.47	0.48
1:G:134:MET:O	1:G:137:ASP:HB2	2.13	0.48
1:G:178:ALA:O	1:G:182:LEU:HG	2.14	0.48
1:G:377:ASN:C	1:G:377:ASN:HD22	2.22	0.48
1:G:430:GLY:O	1:G:433:VAL:N	2.46	0.48
1:G:493:GLU:O	1:G:494:GLU:HB2	2.13	0.48
1:G:585:PRO:C	1:G:586:VAL:CG2	2.87	0.48
2:H:105:LEU:HD23	2:H:108:ARG:HD3	1.96	0.48
2:H:118:ILE:HG23	2:H:119:THR:N	2.28	0.48
2:H:130:LEU:C	2:H:132:ASP:H	2.21	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:146:ALA:O	2:H:149:HIS:HB3	2.14	0.48
2:H:191:HIS:O	2:H:191:HIS:CG	2.64	0.48
1:I:57:HIS:O	1:I:58:MET:C	2.57	0.48
1:I:254:ARG:CA	1:I:295:THR:HG23	2.44	0.48
1:I:375:GLY:C	1:I:377:ASN:N	2.72	0.48
1:I:459:LEU:O	1:I:463:ILE:HG13	2.13	0.48
2:J:14:GLU:O	2:J:17:GLU:HB3	2.14	0.48
2:J:105:LEU:HD23	2:J:108:ARG:HD3	1.96	0.48
2:J:353:GLN:O	2:J:354:VAL:C	2.57	0.48
2:J:516:ASN:O	2:J:519:LEU:HB3	2.14	0.48
1:K:115:THR:HB	1:K:118:VAL:CG2	2.42	0.48
1:K:445:ILE:HD13	1:K:455:THR:HG21	1.94	0.48
2:L:9:THR:HG22	2:L:11:LYS:N	2.29	0.48
2:L:65:LEU:O	2:L:66:LYS:C	2.56	0.48
2:L:67:LYS:O	2:L:70:TYR:N	2.47	0.48
2:L:146:ALA:O	2:L:149:HIS:HB3	2.14	0.48
2:L:175:MET:O	2:L:176:VAL:C	2.57	0.48
2:L:257:LEU:O	2:L:260:VAL:N	2.46	0.48
2:L:258:SER:HA	2:L:261:LYS:HE3	1.95	0.48
2:L:569:THR:HG23	3:V:74:ASN:CG	2.34	0.48
3:M:10:ASP:O	3:M:12:LYS:N	2.46	0.48
3:M:119:ASP:C	3:M:121:GLY:H	2.21	0.48
3:N:356:MET:SD	3:N:356:MET:C	2.97	0.48
3:O:355:LEU:HD12	3:O:356:MET:H	1.78	0.48
3:P:83:PHE:CE1	3:P:87:VAL:HG22	2.49	0.48
3:P:96:LYS:HG2	3:P:143:GLU:HA	1.95	0.48
3:P:314:ILE:HG12	3:P:376:ILE:HD12	1.95	0.48
4:Q:71:ILE:HG21	4:Q:75:ASP:CB	2.44	0.48
3:R:7:TYR:N	3:R:7:TYR:CD1	2.82	0.48
3:R:119:ASP:C	3:R:121:GLY:N	2.71	0.48
3:R:327:THR:OG1	3:R:356:MET:HG2	2.14	0.48
4:S:31:MET:CE	4:S:52:TRP:HH2	2.27	0.48
4:T:84:ILE:O	4:T:86:ARG:N	2.47	0.48
4:U:90:LEU:H	4:U:90:LEU:HD22	1.79	0.48
3:V:84:LEU:O	3:V:85:TYR:C	2.56	0.48
3:V:86:LYS:O	3:V:87:VAL:C	2.57	0.48
4:W:83:LEU:HD12	4:W:83:LEU:O	2.13	0.48
1:A:375:GLY:C	1:A:377:ASN:N	2.71	0.48
1:A:422:ILE:HG22	1:A:441:LEU:HD12	1.95	0.48
1:A:562:ARG:O	1:A:563:ALA:C	2.56	0.48
1:A:585:PRO:C	1:A:586:VAL:CG2	2.87	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:585:PRO:O	1:A:586:VAL:CG2	2.62	0.48
2:B:184:LEU:O	2:B:185:SER:C	2.56	0.48
2:B:220:ILE:O	2:B:223:LEU:N	2.47	0.48
1:C:208:MET:C	1:C:212:PHE:HB2	2.39	0.48
1:C:301:SER:HB2	1:C:305:LEU:HD23	1.96	0.48
1:C:419:ILE:O	1:C:420:ASP:C	2.56	0.48
1:C:493:GLU:O	1:C:494:GLU:HB2	2.13	0.48
2:D:220:ILE:O	2:D:223:LEU:N	2.47	0.48
2:D:307:ASN:ND2	2:D:344:ARG:NH1	2.62	0.48
2:D:394:THR:HA	2:D:397:ASP:HB2	1.95	0.48
2:D:491:LEU:CD1	2:D:491:LEU:C	2.87	0.48
1:E:152:TYR:OH	4:U:116:GLU:OE1	2.27	0.48
1:E:157:ALA:O	1:E:160:CYS:N	2.47	0.48
1:E:178:ALA:O	1:E:182:LEU:HG	2.14	0.48
2:F:310:VAL:CG1	2:F:317:LEU:HD21	2.42	0.48
2:F:491:LEU:CD1	2:F:491:LEU:C	2.87	0.48
1:G:562:ARG:O	1:G:563:ALA:C	2.56	0.48
2:H:258:SER:HA	2:H:261:LYS:HE3	1.95	0.48
2:H:353:GLN:O	2:H:354:VAL:C	2.57	0.48
1:I:264:SER:C	1:I:266:ALA:N	2.71	0.48
1:I:310:ILE:O	1:I:313:LEU:N	2.47	0.48
1:I:313:LEU:O	1:I:314:GLY:C	2.55	0.48
2:J:163:ASP:O	2:J:164:THR:C	2.57	0.48
2:J:436:LEU:C	2:J:436:LEU:CD1	2.83	0.48
2:J:437:ASP:C	2:J:439:ASP:H	2.20	0.48
2:J:491:LEU:CD1	2:J:491:LEU:C	2.87	0.48
1:K:459:LEU:O	1:K:463:ILE:HG13	2.13	0.48
2:L:180:ARG:O	2:L:181:VAL:C	2.56	0.48
2:L:486:THR:O	2:L:489:VAL:HB	2.13	0.48
3:M:86:LYS:O	3:M:87:VAL:C	2.57	0.48
3:O:10:ASP:O	3:O:12:LYS:N	2.46	0.48
3:O:32:HIS:O	3:O:33:PHE:C	2.57	0.48
3:O:36:ILE:HG22	3:O:50:LEU:HD23	1.96	0.48
3:P:76:CYS:HB2	3:P:79:LEU:CD1	2.43	0.48
4:Q:84:ILE:O	4:Q:86:ARG:N	2.47	0.48
3:R:210:LEU:HD13	3:R:211:ARG:N	2.27	0.48
3:R:215:ASN:HB2	3:R:391:GLN:O	2.14	0.48
3:R:408:TRP:N	3:R:408:TRP:HD1	2.12	0.48
4:S:52:TRP:O	4:S:55:LEU:N	2.47	0.48
4:T:84:ILE:C	4:T:86:ARG:N	2.72	0.48
3:V:133:GLU:HG3	3:V:134:PHE:N	2.28	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:W:7:LEU:O	4:W:15:ARG:N	2.40	0.48
4:W:87:TYR:CZ	4:W:114:LEU:HB2	2.49	0.48
4:W:107:PHE:CD2	4:W:107:PHE:N	2.82	0.48
4:X:76:ASN:HD21	4:X:78:LEU:HB2	1.78	0.48
1:A:47:CYS:SG	1:A:48:ARG:N	2.87	0.47
1:A:79:PHE:O	1:A:82:LYS:HB2	2.14	0.47
1:A:117:PHE:H	1:A:117:PHE:HD1	1.61	0.47
2:B:2:THR:HB	2:D:402:LYS:HE2	1.96	0.47
2:B:95:CYS:O	2:B:103:ARG:HD2	2.13	0.47
2:B:436:LEU:O	2:B:439:ASP:OD2	2.32	0.47
2:B:442:PRO:O	2:B:443:GLU:C	2.56	0.47
2:B:453:GLY:O	2:B:454:GLU:C	2.57	0.47
1:C:196:VAL:CG1	1:C:248:ARG:HD2	2.44	0.47
2:D:374:VAL:C	2:D:376:ALA:N	2.71	0.47
1:E:264:SER:C	1:E:266:ALA:N	2.71	0.47
1:E:310:ILE:O	1:E:313:LEU:N	2.47	0.47
1:G:57:HIS:O	1:G:58:MET:C	2.57	0.47
1:G:134:MET:O	1:G:137:ASP:N	2.38	0.47
1:G:254:ARG:HB2	1:G:295:THR:CG2	2.42	0.47
1:G:255:ILE:HG23	1:G:256:LEU:N	2.29	0.47
1:G:279:GLU:OE1	1:G:279:GLU:N	2.45	0.47
1:G:302:GLU:HG3	1:G:305:LEU:H	1.78	0.47
1:G:415:LYS:HE3	1:G:415:LYS:CA	2.43	0.47
1:G:478:TRP:HH2	1:G:532:LYS:NZ	2.12	0.47
2:H:326:VAL:HG21	2:H:369:PHE:CZ	2.47	0.47
2:H:491:LEU:CD1	2:H:491:LEU:C	2.87	0.47
1:I:79:PHE:O	1:I:82:LYS:HB2	2.14	0.47
1:I:255:ILE:HG23	1:I:256:LEU:N	2.29	0.47
2:J:316:ILE:CB	2:J:317:LEU:HD13	2.44	0.47
2:J:394:THR:HA	2:J:397:ASP:HB2	1.95	0.47
2:J:453:GLY:O	2:J:454:GLU:C	2.57	0.47
2:J:535:VAL:O	2:J:538:LYS:HB3	2.13	0.47
1:K:162:VAL:O	1:K:165:ILE:N	2.46	0.47
1:K:522:THR:C	1:K:524:GLY:N	2.70	0.47
2:L:163:ASP:O	2:L:164:THR:C	2.57	0.47
2:L:307:ASN:ND2	2:L:344:ARG:NH1	2.62	0.47
2:L:385:GLU:O	2:L:387:SER:N	2.47	0.47
2:L:444:ALA:O	2:L:445:ARG:C	2.57	0.47
3:O:171:VAL:HG13	3:O:202:VAL:CG2	2.36	0.47
3:O:356:MET:SD	3:O:356:MET:C	2.97	0.47
3:O:386:THR:CG2	3:O:389:GLY:H	2.21	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:O:408:TRP:N	3:O:408:TRP:HD1	2.12	0.47
3:P:198:ILE:HD12	3:P:265:MET:HB3	1.96	0.47
4:Q:21:LEU:O	4:Q:22:ALA:C	2.57	0.47
3:R:86:LYS:O	3:R:87:VAL:C	2.57	0.47
3:R:104:ARG:CA	3:R:107:PHE:CE1	2.93	0.47
3:R:314:ILE:HG12	3:R:376:ILE:HD12	1.95	0.47
3:R:376:ILE:CG2	3:R:420:LEU:HB2	2.42	0.47
4:S:7:LEU:HD23	4:S:7:LEU:HA	1.55	0.47
4:S:90:LEU:H	4:S:90:LEU:HD22	1.79	0.47
4:T:52:TRP:O	4:T:55:LEU:N	2.47	0.47
3:V:314:ILE:HG12	3:V:376:ILE:HD12	1.95	0.47
3:V:337:GLU:C	3:V:339:SER:H	2.21	0.47
4:W:30:LYS:NZ	4:W:30:LYS:CB	2.77	0.47
4:X:84:ILE:O	4:X:86:ARG:N	2.47	0.47
1:A:73:LEU:C	1:A:75:ALA:N	2.71	0.47
1:A:173:GLU:O	1:A:175:PHE:N	2.48	0.47
1:A:224:LYS:O	1:A:225:ASN:C	2.57	0.47
1:A:329:LEU:O	1:A:330:THR:C	2.56	0.47
1:A:377:ASN:HD22	1:A:377:ASN:C	2.22	0.47
1:A:468:SER:O	1:A:469:GLN:CB	2.42	0.47
1:A:478:TRP:HH2	1:A:532:LYS:NZ	2.12	0.47
2:B:570:LEU:CD1	3:M:74:ASN:HA	2.44	0.47
1:C:195:VAL:O	1:C:198:LEU:N	2.47	0.47
2:D:175:MET:O	2:D:176:VAL:C	2.57	0.47
2:D:376:ALA:C	2:D:378:GLY:N	2.70	0.47
2:D:483:GLN:O	2:D:484:LEU:C	2.55	0.47
2:D:516:ASN:O	2:D:519:LEU:HB3	2.14	0.47
1:E:14:ILE:H	1:E:14:ILE:CD1	2.18	0.47
1:E:271:LEU:HD12	1:E:296:ILE:HG12	1.95	0.47
2:F:130:LEU:C	2:F:132:ASP:H	2.21	0.47
2:F:163:ASP:O	2:F:164:THR:C	2.57	0.47
2:F:175:MET:O	2:F:176:VAL:C	2.57	0.47
2:F:426:GLU:CA	2:F:429:ILE:HD13	2.44	0.47
2:F:537:ALA:O	2:F:538:LYS:C	2.56	0.47
1:G:11:ILE:CA	1:G:14:ILE:HD13	2.40	0.47
1:G:155:LYS:HB2	1:G:193:THR:HG21	1.95	0.47
1:G:246:GLN:O	1:G:249:ILE:HB	2.14	0.47
2:H:179:ASN:O	2:H:180:ARG:C	2.55	0.47
2:H:184:LEU:O	2:H:185:SER:C	2.56	0.47
2:H:316:ILE:CB	2:H:317:LEU:HD13	2.44	0.47
1:I:329:LEU:O	1:I:330:THR:C	2.57	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:425:VAL:HG13	1:I:426:LEU:HD22	1.96	0.47
1:I:533:LEU:O	1:I:534:SER:C	2.56	0.47
2:J:146:ALA:O	2:J:149:HIS:HB3	2.14	0.47
2:J:257:LEU:O	2:J:260:VAL:N	2.46	0.47
2:J:258:SER:HA	2:J:261:LYS:HE3	1.95	0.47
2:J:385:GLU:O	2:J:387:SER:N	2.47	0.47
2:J:432:LEU:O	2:J:433:CYS:C	2.57	0.47
1:K:178:ALA:O	1:K:182:LEU:HG	2.14	0.47
1:K:224:LYS:O	1:K:225:ASN:C	2.57	0.47
1:K:254:ARG:CA	1:K:295:THR:HG23	2.44	0.47
1:K:396:PHE:H	1:K:396:PHE:HD1	1.62	0.47
1:K:476:ALA:C	1:K:478:TRP:N	2.72	0.47
1:K:585:PRO:C	1:K:586:VAL:CG2	2.87	0.47
2:L:204:ILE:HA	2:L:207:LEU:CD1	2.44	0.47
2:L:236:GLU:O	2:L:240:ILE:HG13	2.13	0.47
3:M:22:ARG:CG	3:M:23:GLY:N	2.76	0.47
3:M:43:GLU:C	3:M:45:MET:N	2.72	0.47
3:N:198:ILE:HD12	3:N:265:MET:HB3	1.96	0.47
3:O:376:ILE:CG2	3:O:420:LEU:HB2	2.41	0.47
3:P:356:MET:SD	3:P:356:MET:C	2.97	0.47
4:Q:30:LYS:NZ	4:Q:30:LYS:CB	2.78	0.47
3:R:21:TYR:CE1	3:R:118:MET:HE3	2.49	0.47
3:R:253:ILE:N	3:R:253:ILE:CD1	2.78	0.47
3:R:267:TYR:N	3:R:267:TYR:CD1	2.81	0.47
4:T:30:LYS:HZ3	4:T:33:ARG:HH21	1.61	0.47
3:V:61:LYS:HD2	3:V:66:TYR:HE2	1.78	0.47
3:V:384:TYR:CA	3:V:411:TYR:HB2	2.44	0.47
4:X:50:LEU:HB3	4:X:57:VAL:HG23	1.96	0.47
1:A:57:HIS:O	1:A:58:MET:C	2.57	0.47
1:A:195:VAL:O	1:A:198:LEU:N	2.47	0.47
1:A:246:GLN:O	1:A:249:ILE:HB	2.14	0.47
2:B:99:ASN:O	2:B:102:ILE:N	2.46	0.47
2:B:220:ILE:O	2:B:221:PHE:C	2.58	0.47
2:B:316:ILE:CB	2:B:317:LEU:HD13	2.44	0.47
2:B:385:GLU:O	2:B:387:SER:N	2.47	0.47
2:B:491:LEU:CD1	2:B:491:LEU:C	2.87	0.47
1:C:155:LYS:HB2	1:C:193:THR:HG21	1.95	0.47
1:C:195:VAL:O	1:C:196:VAL:C	2.55	0.47
1:C:308:LEU:O	1:C:309:ALA:C	2.56	0.47
1:C:478:TRP:HH2	1:C:532:LYS:NZ	2.12	0.47
2:D:67:LYS:O	2:D:70:TYR:N	2.47	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:104:ALA:O	2:D:107:VAL:N	2.43	0.47
2:D:570:LEU:CD1	3:N:74:ASN:HA	2.44	0.47
1:E:35:ARG:CD	1:E:65:PHE:HE2	2.21	0.47
1:E:156:LYS:O	4:U:119:MET:HE1	2.15	0.47
1:E:173:GLU:O	1:E:175:PHE:N	2.48	0.47
1:E:254:ARG:HB2	1:E:295:THR:CG2	2.42	0.47
1:E:532:LYS:CA	1:E:581:LEU:HD13	2.35	0.47
1:E:561:GLN:HE21	1:E:565:GLU:HG3	1.79	0.47
1:E:585:PRO:O	1:E:586:VAL:CG2	2.62	0.47
2:F:516:ASN:O	2:F:519:LEU:HB3	2.14	0.47
1:G:308:LEU:O	1:G:309:ALA:C	2.56	0.47
1:G:451:MET:SD	1:G:451:MET:N	2.85	0.47
2:H:173:ASN:O	2:H:177:VAL:HG23	2.15	0.47
1:I:47:CYS:SG	1:I:48:ARG:N	2.87	0.47
1:I:156:LYS:O	4:X:119:MET:HE1	2.15	0.47
1:I:246:GLN:O	1:I:249:ILE:HB	2.14	0.47
1:I:377:ASN:C	1:I:377:ASN:HD22	2.22	0.47
1:I:561:GLN:HE21	1:I:565:GLU:HG3	1.79	0.47
1:I:585:PRO:C	1:I:586:VAL:CG2	2.87	0.47
2:J:444:ALA:O	2:J:445:ARG:C	2.57	0.47
1:K:173:GLU:O	1:K:175:PHE:N	2.48	0.47
2:L:16:PHE:CZ	3:P:416:GLY:HA3	2.49	0.47
2:L:477:SER:O	2:L:478:THR:C	2.56	0.47
3:M:47:SER:C	3:M:49:ILE:H	2.23	0.47
3:M:133:GLU:HG3	3:M:134:PHE:N	2.28	0.47
3:M:327:THR:OG1	3:M:356:MET:HG2	2.14	0.47
3:N:337:GLU:C	3:N:339:SER:H	2.21	0.47
3:N:386:THR:CG2	3:N:389:GLY:H	2.21	0.47
3:N:408:TRP:N	3:N:408:TRP:HD1	2.12	0.47
3:O:60:ILE:CG1	3:O:67:LEU:HB3	2.44	0.47
3:O:84:LEU:O	3:O:85:TYR:C	2.56	0.47
4:T:30:LYS:NZ	4:T:30:LYS:CB	2.78	0.47
4:T:107:PHE:CD2	4:T:107:PHE:N	2.82	0.47
4:U:31:MET:O	4:U:32:VAL:O	2.32	0.47
4:U:71:ILE:CG2	4:U:75:ASP:HB3	2.43	0.47
4:U:76:ASN:HD21	4:U:78:LEU:HB2	1.78	0.47
4:W:109:LYS:HA	4:W:112:PHE:CD1	2.35	0.47
1:A:21:ALA:O	1:A:24:ARG:HB2	2.15	0.47
1:A:22:GLU:O	1:A:23:GLU:C	2.56	0.47
1:A:254:ARG:CA	1:A:295:THR:HG23	2.44	0.47
1:A:310:ILE:O	1:A:313:LEU:N	2.47	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:489:SER:N	1:A:500:VAL:CG1	2.74	0.47
1:A:491:GLN:CB	1:G:276:THR:CG2	2.92	0.47
2:B:311:GLN:CG	2:B:555:ILE:HD12	2.45	0.47
2:B:326:VAL:HG22	2:B:361:TYR:CZ	2.50	0.47
2:B:353:GLN:O	2:B:354:VAL:C	2.57	0.47
1:C:21:ALA:O	1:C:24:ARG:HB2	2.15	0.47
1:C:531:MET:C	1:C:533:LEU:N	2.71	0.47
2:D:261:LYS:HA	2:D:567:ILE:HD12	1.97	0.47
1:E:57:HIS:O	1:E:58:MET:C	2.57	0.47
1:E:414:SER:HA	1:E:415:LYS:NZ	2.29	0.47
1:E:451:MET:SD	1:E:451:MET:N	2.85	0.47
1:E:466:ASP:O	1:E:467:TYR:CD1	2.53	0.47
1:E:562:ARG:O	1:E:563:ALA:C	2.56	0.47
2:F:55:VAL:O	2:F:58:MET:CB	2.60	0.47
2:F:180:ARG:O	2:F:181:VAL:C	2.56	0.47
2:F:311:GLN:CG	2:F:555:ILE:HD12	2.45	0.47
2:F:326:VAL:HG22	2:F:361:TYR:CZ	2.50	0.47
2:F:432:LEU:O	2:F:433:CYS:C	2.57	0.47
2:F:436:LEU:O	2:F:439:ASP:OD2	2.32	0.47
1:G:301:SER:HB2	1:G:305:LEU:HD23	1.96	0.47
1:G:310:ILE:O	1:G:313:LEU:N	2.47	0.47
1:G:414:SER:HA	1:G:415:LYS:NZ	2.30	0.47
2:H:530:LEU:C	2:H:532:THR:H	2.21	0.47
1:I:535:THR:O	1:I:535:THR:CG2	2.63	0.47
2:J:173:ASN:O	2:J:177:VAL:HG23	2.15	0.47
2:J:283:LYS:O	2:J:287:PRO:CD	2.62	0.47
1:K:201:MET:O	1:K:203:GLU:N	2.42	0.47
2:L:14:GLU:O	2:L:17:GLU:HB3	2.14	0.47
2:L:359:LYS:O	2:L:360:GLU:C	2.57	0.47
2:L:436:LEU:O	2:L:439:ASP:OD2	2.32	0.47
2:L:491:LEU:CD1	2:L:491:LEU:C	2.87	0.47
3:M:126:THR:CG2	3:M:131:LEU:HD13	2.40	0.47
3:M:215:ASN:HB2	3:M:391:GLN:O	2.14	0.47
3:M:253:ILE:N	3:M:253:ILE:CD1	2.78	0.47
3:O:47:SER:C	3:O:49:ILE:H	2.23	0.47
3:R:58:MET:HB2	3:R:69:ALA:HB3	1.96	0.47
3:R:384:TYR:CA	3:R:411:TYR:HB2	2.44	0.47
4:S:21:LEU:O	4:S:22:ALA:C	2.57	0.47
4:U:84:ILE:O	4:U:86:ARG:N	2.47	0.47
3:V:215:ASN:HB2	3:V:391:GLN:O	2.14	0.47
4:W:56:LYS:O	4:W:71:ILE:N	2.43	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:230:MET:HB2	2:B:266:PHE:CE2	2.49	0.47
2:B:530:LEU:C	2:B:532:THR:H	2.20	0.47
1:C:152:TYR:OH	4:T:116:GLU:OE1	2.27	0.47
1:C:414:SER:HA	1:C:415:LYS:NZ	2.30	0.47
1:C:535:THR:O	1:C:535:THR:CG2	2.63	0.47
2:D:91:PHE:O	2:D:92:VAL:C	2.58	0.47
2:D:316:ILE:CB	2:D:317:LEU:HD13	2.44	0.47
2:D:432:LEU:O	2:D:433:CYS:C	2.57	0.47
1:E:161:ALA:O	1:E:164:VAL:HB	2.13	0.47
1:E:301:SER:HB2	1:E:305:LEU:HD23	1.96	0.47
1:E:522:THR:C	1:E:524:GLY:N	2.70	0.47
2:F:18:LEU:N	2:F:18:LEU:CD2	2.78	0.47
2:F:95:CYS:O	2:F:103:ARG:HD2	2.14	0.47
2:F:570:LEU:CD1	3:O:74:ASN:HA	2.44	0.47
1:G:47:CYS:SG	1:G:48:ARG:N	2.87	0.47
1:G:117:PHE:H	1:G:117:PHE:HD1	1.61	0.47
1:G:156:LYS:O	4:Q:119:MET:HE1	2.15	0.47
1:G:157:ALA:O	1:G:160:CYS:N	2.47	0.47
1:G:196:VAL:O	1:G:197:LEU:C	2.58	0.47
1:G:224:LYS:O	1:G:225:ASN:C	2.57	0.47
1:G:264:SER:C	1:G:266:ALA:N	2.71	0.47
1:G:453:ALA:C	1:G:455:THR:N	2.72	0.47
2:H:67:LYS:O	2:H:70:TYR:N	2.47	0.47
2:H:394:THR:O	2:H:395:LEU:C	2.54	0.47
2:H:444:ALA:O	2:H:445:ARG:C	2.57	0.47
1:I:11:ILE:C	1:I:13:THR:N	2.72	0.47
1:I:196:VAL:O	1:I:197:LEU:C	2.58	0.47
1:I:196:VAL:CG1	1:I:248:ARG:HD2	2.44	0.47
1:I:224:LYS:O	1:I:225:ASN:C	2.57	0.47
1:I:279:GLU:OE1	1:I:279:GLU:N	2.45	0.47
1:I:470:GLN:CB	1:I:471:PRO:HD3	2.40	0.47
1:K:154:ARG:O	1:K:155:LYS:C	2.57	0.47
2:L:283:LYS:O	2:L:287:PRO:CD	2.62	0.47
2:L:468:SER:OG	2:L:469:PHE:N	2.47	0.47
2:L:570:LEU:CD1	3:V:75:ALA:H	2.28	0.47
3:M:60:ILE:CG1	3:M:67:LEU:HB3	2.44	0.47
3:M:83:PHE:C	3:M:83:PHE:CD1	2.89	0.47
3:M:119:ASP:C	3:M:121:GLY:N	2.71	0.47
3:N:47:SER:C	3:N:49:ILE:H	2.23	0.47
3:O:21:TYR:CE1	3:O:118:MET:HE3	2.49	0.47
3:O:87:VAL:HG12	3:O:91:PHE:CE2	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:O:253:ILE:N	3:O:253:ILE:CD1	2.78	0.47
3:O:380:PHE:CE1	3:O:414:GLN:C	2.86	0.47
4:Q:31:MET:O	4:Q:32:VAL:O	2.32	0.47
3:R:198:ILE:HD12	3:R:265:MET:HB3	1.96	0.47
3:R:333:LYS:HB2	3:R:333:LYS:NZ	2.30	0.47
4:S:31:MET:O	4:S:32:VAL:O	2.32	0.47
4:T:31:MET:O	4:T:32:VAL:O	2.32	0.47
3:V:96:LYS:HG2	3:V:143:GLU:HA	1.95	0.47
3:V:240:GLN:O	3:V:242:VAL:N	2.48	0.47
4:W:8:PHE:HE1	4:W:36:MET:HA	1.80	0.47
4:W:84:ILE:O	4:W:86:ARG:N	2.47	0.47
4:X:31:MET:O	4:X:32:VAL:O	2.32	0.47
1:A:118:VAL:O	1:A:119:GLN:C	2.58	0.47
1:A:157:ALA:O	1:A:160:CYS:N	2.47	0.47
1:A:522:THR:C	1:A:524:GLY:N	2.70	0.47
2:B:14:GLU:O	2:B:17:GLU:HB3	2.14	0.47
2:B:107:VAL:O	2:B:108:ARG:C	2.56	0.47
2:B:151:ILE:C	2:B:153:ALA:H	2.23	0.47
2:B:399:ILE:HG23	2:B:407:VAL:HG13	1.97	0.47
2:B:468:SER:OG	2:B:469:PHE:N	2.47	0.47
1:C:79:PHE:O	1:C:82:LYS:HB2	2.14	0.47
1:C:157:ALA:O	1:C:160:CYS:N	2.47	0.47
1:C:173:GLU:O	1:C:175:PHE:N	2.48	0.47
1:C:302:GLU:HG3	1:C:305:LEU:H	1.78	0.47
1:C:423:MET:O	1:C:424:ARG:C	2.56	0.47
2:D:79:SER:C	2:D:81:PRO:HD3	2.40	0.47
2:D:311:GLN:CG	2:D:555:ILE:HD12	2.45	0.47
2:D:390:ARG:HG2	2:D:390:ARG:NH1	2.30	0.47
1:E:74:ILE:HD12	1:E:74:ILE:N	2.19	0.47
1:E:193:THR:OG1	1:E:194:SER:N	2.43	0.47
1:E:246:GLN:O	1:E:249:ILE:HB	2.14	0.47
1:E:255:ILE:HG23	1:E:256:LEU:N	2.29	0.47
1:E:350:ILE:HG21	1:E:368:LEU:CD2	2.45	0.47
1:E:443:GLN:HA	1:E:446:THR:CG2	2.45	0.47
2:F:326:VAL:HG21	2:F:369:PHE:CZ	2.47	0.47
2:F:385:GLU:O	2:F:387:SER:N	2.47	0.47
2:F:390:ARG:HG2	2:F:390:ARG:NH1	2.30	0.47
2:F:570:LEU:CD1	3:O:75:ALA:H	2.28	0.47
1:G:21:ALA:O	1:G:24:ARG:HB2	2.15	0.47
1:G:425:VAL:HG13	1:G:426:LEU:HD22	1.97	0.47
1:G:470:GLN:CB	1:G:471:PRO:HD3	2.40	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:163:ASP:O	2:H:164:THR:C	2.57	0.47
2:H:376:ALA:C	2:H:378:GLY:N	2.70	0.47
2:H:432:LEU:O	2:H:433:CYS:C	2.58	0.47
2:H:551:GLU:C	2:H:553:ASP:H	2.21	0.47
1:I:21:ALA:O	1:I:24:ARG:HB2	2.15	0.47
1:I:117:PHE:H	1:I:117:PHE:HD1	1.61	0.47
1:I:232:SER:HA	1:I:233:PRO:HD3	1.71	0.47
1:I:415:LYS:HE3	1:I:415:LYS:CA	2.43	0.47
2:J:327:LYS:HB2	2:J:330:ASP:OD1	2.15	0.47
2:J:359:LYS:O	2:J:360:GLU:C	2.57	0.47
2:J:530:LEU:C	2:J:532:THR:H	2.21	0.47
1:K:47:CYS:SG	1:K:48:ARG:N	2.87	0.47
1:K:157:ALA:O	1:K:160:CYS:N	2.47	0.47
1:K:264:SER:C	1:K:266:ALA:N	2.71	0.47
1:K:453:ALA:C	1:K:455:THR:N	2.72	0.47
1:K:561:GLN:HE21	1:K:565:GLU:HG3	1.79	0.47
1:K:562:ARG:O	1:K:563:ALA:C	2.56	0.47
2:L:130:LEU:C	2:L:132:ASP:N	2.67	0.47
2:L:220:ILE:O	2:L:221:PHE:C	2.58	0.47
3:M:7:TYR:N	3:M:7:TYR:CD1	2.82	0.47
3:M:84:LEU:O	3:M:85:TYR:C	2.56	0.47
3:M:87:VAL:HG12	3:M:91:PHE:CE2	2.50	0.47
3:N:86:LYS:O	3:N:87:VAL:C	2.57	0.47
3:N:321:ASP:OD1	3:N:322:SER:N	2.38	0.47
3:O:198:ILE:HD12	3:O:265:MET:HB3	1.96	0.47
3:O:215:ASN:HB2	3:O:391:GLN:O	2.14	0.47
3:O:327:THR:OG1	3:O:356:MET:HG2	2.14	0.47
3:P:58:MET:HB2	3:P:69:ALA:HB3	1.96	0.47
3:P:87:VAL:HG12	3:P:91:PHE:CE2	2.50	0.47
3:R:380:PHE:CE1	3:R:414:GLN:C	2.86	0.47
4:S:30:LYS:NZ	4:S:30:LYS:CB	2.78	0.47
4:U:21:LEU:O	4:U:22:ALA:C	2.57	0.47
4:U:52:TRP:O	4:U:55:LEU:N	2.47	0.47
3:V:83:PHE:CE1	3:V:87:VAL:HG22	2.49	0.47
3:V:104:ARG:CA	3:V:107:PHE:HE1	2.25	0.47
3:V:327:THR:OG1	3:V:356:MET:HG2	2.14	0.47
4:W:50:LEU:HB3	4:W:57:VAL:HG23	1.96	0.47
4:W:71:ILE:CG2	4:W:72:GLU:H	2.26	0.47
4:W:90:LEU:H	4:W:90:LEU:HD22	1.79	0.47
4:X:8:PHE:HE1	4:X:36:MET:HA	1.80	0.47
1:A:239:GLY:C	1:A:240:ILE:HG13	2.32	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:254:ARG:HB2	1:A:295:THR:CG2	2.42	0.47
1:A:479:CYS:O	1:A:483:TYR:N	2.31	0.47
2:B:27:LYS:HA	2:B:30:LYS:HD2	1.97	0.47
2:B:79:SER:C	2:B:81:PRO:HD3	2.40	0.47
2:B:118:ILE:HG23	2:B:119:THR:N	2.28	0.47
2:B:180:ARG:O	2:B:181:VAL:C	2.56	0.47
2:B:208:LEU:HD11	2:B:243:ARG:CD	2.41	0.47
2:B:310:VAL:CG1	2:B:317:LEU:HD21	2.42	0.47
2:B:415:LYS:HG2	2:B:416:ASP:N	2.30	0.47
2:B:432:LEU:O	2:B:433:CYS:C	2.57	0.47
2:B:452:VAL:HG13	2:B:453:GLY:H	1.80	0.47
1:C:67:GLN:O	1:C:70:CYS:CB	2.56	0.47
1:C:115:THR:HB	1:C:118:VAL:HG23	1.97	0.47
1:C:156:LYS:O	4:T:119:MET:HE1	2.14	0.47
1:C:178:ALA:O	1:C:182:LEU:HG	2.14	0.47
1:C:254:ARG:CA	1:C:295:THR:HG23	2.44	0.47
1:C:396:PHE:HD1	1:C:396:PHE:H	1.61	0.47
1:C:476:ALA:C	1:C:478:TRP:N	2.72	0.47
1:C:498:ILE:CG2	1:C:499:GLN:N	2.65	0.47
1:C:522:THR:C	1:C:524:GLY:N	2.70	0.47
2:D:30:LYS:O	2:D:34:VAL:HG23	2.15	0.47
2:D:327:LYS:HB2	2:D:330:ASP:OD1	2.15	0.47
2:D:426:GLU:CA	2:D:429:ILE:HD13	2.44	0.47
2:D:442:PRO:O	2:D:443:GLU:C	2.56	0.47
2:D:563:LEU:C	2:D:565:CYS:N	2.70	0.47
1:E:47:CYS:SG	1:E:48:ARG:N	2.87	0.47
1:E:79:PHE:O	1:E:82:LYS:HB2	2.14	0.47
1:E:138:LEU:O	1:E:141:GLU:HB2	2.13	0.47
1:E:208:MET:C	1:E:212:PHE:HB2	2.39	0.47
1:E:224:LYS:O	1:E:225:ASN:C	2.57	0.47
1:E:254:ARG:CA	1:E:295:THR:HG23	2.44	0.47
1:E:375:GLY:C	1:E:377:ASN:N	2.72	0.47
1:E:430:GLY:O	1:E:433:VAL:N	2.46	0.47
1:E:535:THR:O	1:E:535:THR:CG2	2.63	0.47
2:F:9:THR:HG22	2:F:11:LYS:N	2.29	0.47
2:F:30:LYS:O	2:F:34:VAL:HG23	2.15	0.47
2:F:91:PHE:O	2:F:92:VAL:C	2.57	0.47
2:F:105:LEU:HD23	2:F:108:ARG:HD3	1.96	0.47
2:F:184:LEU:O	2:F:185:SER:C	2.56	0.47
2:F:307:ASN:ND2	2:F:344:ARG:NH1	2.62	0.47
2:F:466:LEU:O	2:F:467:GLU:C	2.56	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:530:LEU:C	2:F:532:THR:H	2.21	0.47
2:F:551:GLU:C	2:F:553:ASP:H	2.21	0.47
2:F:577:PRO:HA	2:F:578:PRO:HD3	1.89	0.47
1:G:11:ILE:C	1:G:13:THR:N	2.72	0.47
1:G:27:ILE:HD12	1:G:61:TYR:CZ	2.50	0.47
1:G:350:ILE:HG21	1:G:368:LEU:CD2	2.45	0.47
1:G:476:ALA:C	1:G:478:TRP:N	2.72	0.47
1:G:581:LEU:C	1:G:583:ARG:N	2.69	0.47
2:H:9:THR:HG22	2:H:11:LYS:N	2.29	0.47
2:H:79:SER:C	2:H:81:PRO:HD3	2.40	0.47
2:H:204:ILE:HA	2:H:207:LEU:CD1	2.44	0.47
1:I:147:LYS:HA	1:I:147:LYS:CE	2.38	0.47
2:J:79:SER:C	2:J:81:PRO:HD3	2.40	0.47
2:J:91:PHE:O	2:J:92:VAL:C	2.58	0.47
2:J:204:ILE:HA	2:J:207:LEU:CD1	2.44	0.47
2:J:297:GLU:OE2	3:R:60:ILE:HG22	2.15	0.47
2:J:307:ASN:ND2	2:J:344:ARG:NH1	2.62	0.47
2:J:374:VAL:C	2:J:376:ALA:N	2.71	0.47
1:K:5:ILE:HB	1:K:52:LYS:NZ	2.27	0.47
1:K:57:HIS:O	1:K:58:MET:C	2.57	0.47
1:K:195:VAL:O	1:K:198:LEU:N	2.47	0.47
1:K:375:GLY:C	1:K:377:ASN:N	2.72	0.47
1:K:414:SER:HA	1:K:415:LYS:NZ	2.29	0.47
1:K:430:GLY:O	1:K:433:VAL:N	2.46	0.47
1:K:478:TRP:HH2	1:K:532:LYS:NZ	2.12	0.47
1:K:535:THR:HG22	1:K:535:THR:O	2.15	0.47
2:L:96:GLU:O	2:L:97:ASP:C	2.58	0.47
2:L:104:ALA:O	2:L:107:VAL:N	2.43	0.47
2:L:316:ILE:CB	2:L:317:LEU:HD13	2.44	0.47
2:L:326:VAL:HG22	2:L:361:TYR:CZ	2.50	0.47
2:L:432:LEU:O	2:L:433:CYS:C	2.57	0.47
2:L:490:LYS:NZ	2:L:545:LYS:HZ2	2.12	0.47
2:L:516:ASN:O	2:L:519:LEU:HB3	2.14	0.47
3:M:91:PHE:C	3:M:93:GLU:N	2.73	0.47
3:N:76:CYS:HB2	3:N:79:LEU:CD1	2.43	0.47
3:O:7:TYR:N	3:O:7:TYR:CD1	2.81	0.47
3:O:62:HIS:CD2	3:O:98:LEU:HD23	2.50	0.47
3:O:119:ASP:C	3:O:121:GLY:N	2.71	0.47
3:P:104:ARG:CA	3:P:107:PHE:HE1	2.24	0.47
3:P:325:PHE:CD2	3:P:358:ALA:HB1	2.50	0.47
4:Q:71:ILE:CG2	4:Q:75:ASP:HB3	2.43	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:R:62:HIS:CD2	3:R:98:LEU:HD23	2.50	0.47
3:R:380:PHE:CD1	3:R:380:PHE:N	2.76	0.47
4:S:50:LEU:HB3	4:S:57:VAL:HG23	1.96	0.47
4:S:56:LYS:O	4:S:71:ILE:N	2.43	0.47
4:S:62:TYR:O	4:S:63:ALA:C	2.57	0.47
4:S:71:ILE:CG2	4:S:75:ASP:HB3	2.43	0.47
4:S:84:ILE:O	4:S:86:ARG:N	2.47	0.47
4:U:8:PHE:HE1	4:U:36:MET:HA	1.80	0.47
4:U:30:LYS:NZ	4:U:30:LYS:CB	2.78	0.47
4:U:87:TYR:CZ	4:U:114:LEU:HB2	2.49	0.47
4:U:109:LYS:HA	4:U:112:PHE:CD1	2.35	0.47
3:V:62:HIS:CD2	3:V:98:LEU:HD23	2.50	0.47
3:V:121:GLY:O	3:V:122:TYR:C	2.56	0.47
4:X:52:TRP:O	4:X:55:LEU:N	2.47	0.47
4:X:87:TYR:CZ	4:X:114:LEU:HB2	2.49	0.47
4:X:88:VAL:HG23	4:X:89:GLU:H	1.78	0.47
1:A:27:ILE:HD12	1:A:61:TYR:CZ	2.50	0.47
1:A:187:ASN:O	1:A:188:HIS:C	2.58	0.47
1:A:344:GLN:OE1	1:A:372:LEU:HD23	2.15	0.47
2:B:91:PHE:O	2:B:92:VAL:C	2.58	0.47
2:B:163:ASP:O	2:B:164:THR:C	2.57	0.47
2:B:261:LYS:HA	2:B:567:ILE:HD12	1.97	0.47
2:B:516:ASN:O	2:B:519:LEU:HB3	2.14	0.47
1:C:246:GLN:O	1:C:249:ILE:HB	2.14	0.47
1:C:443:GLN:HA	1:C:446:THR:CG2	2.45	0.47
1:C:509:LEU:HD12	1:C:530:ILE:HG12	1.97	0.47
2:D:173:ASN:O	2:D:177:VAL:HG23	2.15	0.47
2:D:283:LYS:O	2:D:287:PRO:CD	2.62	0.47
2:D:399:ILE:HG23	2:D:407:VAL:HG13	1.97	0.47
2:D:411:ILE:H	2:D:411:ILE:CD1	2.28	0.47
2:D:436:LEU:O	2:D:439:ASP:OD2	2.32	0.47
2:D:491:LEU:HD12	2:D:491:LEU:C	2.39	0.47
1:E:48:ARG:O	1:E:49:ASN:C	2.58	0.47
1:E:73:LEU:C	1:E:75:ALA:N	2.71	0.47
1:E:185:GLU:HG3	1:E:186:LYS:N	2.30	0.47
2:F:190:SER:C	2:F:192:PRO:HD2	2.34	0.47
2:F:316:ILE:CB	2:F:317:LEU:HD13	2.44	0.47
2:F:411:ILE:H	2:F:411:ILE:CD1	2.28	0.47
2:F:415:LYS:HG2	2:F:416:ASP:N	2.30	0.47
2:F:444:ALA:O	2:F:445:ARG:C	2.57	0.47
2:F:452:VAL:HG13	2:F:453:GLY:H	1.80	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:270:ILE:HG23	1:G:271:LEU:CD2	2.44	0.47
1:G:344:GLN:OE1	1:G:372:LEU:HD23	2.15	0.47
1:G:443:GLN:HA	1:G:446:THR:CG2	2.45	0.47
1:G:531:MET:C	1:G:533:LEU:N	2.71	0.47
2:H:283:LYS:O	2:H:287:PRO:CD	2.62	0.47
2:H:385:GLU:O	2:H:387:SER:N	2.47	0.47
2:H:436:LEU:C	2:H:436:LEU:CD1	2.83	0.47
2:H:485:LEU:C	2:H:485:LEU:CD2	2.87	0.47
1:I:173:GLU:O	1:I:175:PHE:N	2.48	0.47
1:I:254:ARG:CB	1:I:295:THR:HG23	2.45	0.47
1:I:478:TRP:CE3	1:I:478:TRP:CA	2.98	0.47
1:I:509:LEU:HD12	1:I:530:ILE:HG12	1.97	0.47
2:J:157:GLU:O	2:J:161:PHE:CD1	2.68	0.47
2:J:267:MET:HE1	2:J:281:LEU:HD21	1.97	0.47
2:J:326:VAL:HG21	2:J:369:PHE:CZ	2.47	0.47
2:J:411:ILE:H	2:J:411:ILE:CD1	2.28	0.47
2:J:551:GLU:C	2:J:553:ASP:N	2.72	0.47
1:K:118:VAL:O	1:K:119:GLN:C	2.58	0.47
1:K:509:LEU:HD12	1:K:530:ILE:HG12	1.97	0.47
2:L:151:ILE:C	2:L:153:ALA:H	2.23	0.47
2:L:399:ILE:HG23	2:L:407:VAL:HG13	1.97	0.47
3:M:58:MET:HB2	3:M:69:ALA:HB3	1.96	0.47
3:M:177:GLU:OE1	3:M:388:SER:HB3	2.13	0.47
3:M:240:GLN:O	3:M:242:VAL:N	2.48	0.47
3:M:325:PHE:CD2	3:M:358:ALA:HB1	2.50	0.47
3:N:325:PHE:CD2	3:N:358:ALA:HB1	2.50	0.47
3:O:56:ARG:N	3:O:56:ARG:CD	2.70	0.47
3:O:104:ARG:CA	3:O:107:PHE:CE1	2.93	0.47
3:O:306:THR:HG22	3:O:349:PRO:CA	2.35	0.47
3:R:60:ILE:CG1	3:R:67:LEU:HB3	2.44	0.47
3:R:399:GLU:HG3	3:R:401:SER:N	2.29	0.47
4:S:59:TYR:CD2	4:S:59:TYR:N	2.83	0.47
4:S:87:TYR:CZ	4:S:114:LEU:HB2	2.49	0.47
4:S:107:PHE:CD2	4:S:107:PHE:N	2.82	0.47
3:V:87:VAL:HG12	3:V:91:PHE:CE2	2.50	0.47
3:V:325:PHE:CD2	3:V:358:ALA:HB1	2.50	0.47
4:W:21:LEU:O	4:W:22:ALA:C	2.57	0.47
4:X:62:TYR:O	4:X:63:ALA:C	2.57	0.47
1:A:154:ARG:O	1:A:155:LYS:C	2.57	0.47
1:A:208:MET:C	1:A:212:PHE:HB2	2.39	0.47
1:A:301:SER:HB2	1:A:305:LEU:HD23	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:425:VAL:HG13	1:A:426:LEU:HD22	1.97	0.47
1:A:453:ALA:C	1:A:455:THR:N	2.72	0.47
2:B:30:LYS:O	2:B:34:VAL:HG23	2.15	0.47
2:B:65:LEU:O	2:B:66:LYS:C	2.56	0.47
2:B:96:GLU:O	2:B:97:ASP:C	2.58	0.47
2:B:146:ALA:O	2:B:149:HIS:HB3	2.14	0.47
2:B:175:MET:O	2:B:178:ALA:CB	2.63	0.47
2:B:175:MET:O	2:B:176:VAL:C	2.57	0.47
2:B:411:ILE:HD12	2:B:411:ILE:N	2.30	0.47
2:B:426:GLU:CA	2:B:429:ILE:HD13	2.44	0.47
2:B:466:LEU:O	2:B:467:GLU:C	2.56	0.47
1:C:48:ARG:O	1:C:49:ASN:C	2.58	0.47
1:C:159:LEU:O	1:C:160:CYS:C	2.55	0.47
1:C:287:ALA:O	1:C:288:ILE:C	2.58	0.47
1:C:310:ILE:O	1:C:313:LEU:N	2.47	0.47
1:C:502:GLU:HG3	1:C:537:PHE:CD2	2.50	0.47
2:D:204:ILE:HA	2:D:207:LEU:CD1	2.44	0.47
1:E:195:VAL:O	1:E:196:VAL:C	2.55	0.47
1:E:441:LEU:C	1:E:441:LEU:CD2	2.88	0.47
1:E:489:SER:N	1:E:500:VAL:CG1	2.74	0.47
1:E:504:GLU:O	1:E:505:VAL:C	2.58	0.47
1:E:509:LEU:HD12	1:E:530:ILE:HG12	1.97	0.47
2:F:157:GLU:O	2:F:161:PHE:CD1	2.68	0.47
2:F:173:ASN:O	2:F:177:VAL:HG23	2.15	0.47
2:F:177:VAL:O	2:F:180:ARG:HB2	2.13	0.47
2:F:556:GLU:HB3	2:F:557:PRO:CD	2.45	0.47
1:G:185:GLU:HG3	1:G:186:LYS:N	2.30	0.47
1:G:509:LEU:HD12	1:G:530:ILE:HG12	1.97	0.47
1:G:561:GLN:HE21	1:G:565:GLU:HG3	1.79	0.47
2:H:326:VAL:HG22	2:H:361:TYR:CZ	2.50	0.47
2:H:359:LYS:O	2:H:360:GLU:C	2.57	0.47
2:H:399:ILE:HG23	2:H:407:VAL:HG13	1.97	0.47
2:H:436:LEU:O	2:H:439:ASP:OD2	2.32	0.47
2:H:551:GLU:C	2:H:553:ASP:N	2.72	0.47
1:I:187:ASN:O	1:I:188:HIS:C	2.58	0.47
1:I:195:VAL:O	1:I:198:LEU:N	2.47	0.47
1:I:395:GLU:CD	1:I:395:GLU:H	2.20	0.47
1:I:522:THR:C	1:I:524:GLY:N	2.70	0.47
2:J:9:THR:HG22	2:J:11:LYS:N	2.29	0.47
2:J:151:ILE:C	2:J:153:ALA:H	2.23	0.47
2:J:261:LYS:HA	2:J:567:ILE:HD12	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:73:LEU:C	1:K:75:ALA:N	2.71	0.47
1:K:79:PHE:O	1:K:82:LYS:HB2	2.14	0.47
1:K:176:LEU:N	1:K:177:PRO:CD	2.78	0.47
1:K:255:ILE:HG23	1:K:256:LEU:N	2.29	0.47
1:K:270:ILE:HG23	1:K:271:LEU:CD2	2.44	0.47
1:K:302:GLU:HG3	1:K:305:LEU:H	1.78	0.47
1:K:350:ILE:HG21	1:K:368:LEU:CD2	2.45	0.47
1:K:478:TRP:CE3	1:K:478:TRP:CA	2.98	0.47
1:K:531:MET:C	1:K:533:LEU:N	2.71	0.47
2:L:115:VAL:O	2:L:118:ILE:CG2	2.51	0.47
2:L:310:VAL:CG1	2:L:317:LEU:HD21	2.42	0.47
2:L:311:GLN:CG	2:L:555:ILE:HD12	2.45	0.47
2:L:353:GLN:O	2:L:354:VAL:C	2.57	0.47
3:M:76:CYS:HB2	3:M:79:LEU:CD1	2.43	0.47
3:M:203:PHE:CD1	3:M:203:PHE:N	2.83	0.47
3:M:333:LYS:HB2	3:M:333:LYS:NZ	2.30	0.47
3:N:91:PHE:C	3:N:93:GLU:N	2.73	0.47
3:N:333:LYS:HB2	3:N:333:LYS:NZ	2.30	0.47
3:P:36:ILE:HG22	3:P:50:LEU:HD23	1.96	0.47
3:R:87:VAL:HG12	3:R:91:PHE:CE2	2.50	0.47
3:R:256:ILE:HA	3:R:257:PRO:HD3	1.62	0.47
3:R:386:THR:CG2	3:R:389:GLY:H	2.21	0.47
4:T:31:MET:CE	4:T:52:TRP:HH2	2.27	0.47
4:T:87:TYR:CZ	4:T:114:LEU:HB2	2.49	0.47
4:T:87:TYR:CE2	4:T:91:LEU:HD11	2.50	0.47
4:T:108:GLU:O	4:T:111:TYR:HB2	2.15	0.47
4:U:30:LYS:HB2	4:U:30:LYS:NZ	2.30	0.47
3:V:376:ILE:CG2	3:V:420:LEU:HB2	2.42	0.47
4:W:7:LEU:HD23	4:W:7:LEU:HA	1.55	0.47
4:X:59:TYR:CD2	4:X:59:TYR:N	2.83	0.47
4:X:107:PHE:CD2	4:X:107:PHE:N	2.82	0.47
1:A:11:ILE:C	1:A:13:THR:N	2.72	0.47
1:A:270:ILE:HG23	1:A:271:LEU:CD2	2.44	0.47
1:A:441:LEU:C	1:A:441:LEU:CD2	2.88	0.47
2:B:38:ILE:O	2:B:42:THR:HG23	2.15	0.47
2:B:67:LYS:O	2:B:70:TYR:N	2.47	0.47
2:B:154:GLN:CB	2:B:158:ASP:OD2	2.53	0.47
2:B:157:GLU:O	2:B:161:PHE:CD1	2.68	0.47
1:C:121:LEU:O	1:C:122:ALA:C	2.58	0.47
1:C:185:GLU:HG3	1:C:186:LYS:N	2.30	0.47
1:C:344:GLN:OE1	1:C:372:LEU:HD23	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:375:GLY:C	1:C:377:ASN:N	2.71	0.47
1:C:395:GLU:HB2	1:C:396:PHE:HD1	1.80	0.47
2:D:9:THR:HG22	2:D:11:LYS:N	2.29	0.47
2:D:151:ILE:C	2:D:153:ALA:H	2.23	0.47
2:D:468:SER:OG	2:D:469:PHE:N	2.47	0.47
1:E:121:LEU:O	1:E:122:ALA:C	2.58	0.47
1:E:164:VAL:O	1:E:165:ILE:C	2.58	0.47
1:E:329:LEU:O	1:E:330:THR:C	2.56	0.47
1:E:425:VAL:HG13	1:E:426:LEU:HD22	1.97	0.47
2:F:261:LYS:HA	2:F:567:ILE:HD12	1.97	0.47
2:F:411:ILE:HG22	2:F:412:VAL:N	2.29	0.47
2:F:485:LEU:C	2:F:485:LEU:CD2	2.87	0.47
2:F:486:THR:HG22	2:F:487:ALA:H	1.76	0.47
1:G:278:THR:HG22	1:G:279:GLU:N	2.30	0.47
1:G:478:TRP:CE3	1:G:478:TRP:CA	2.98	0.47
2:H:55:VAL:O	2:H:58:MET:CB	2.60	0.47
2:H:426:GLU:CA	2:H:429:ILE:HD13	2.44	0.47
1:I:27:ILE:HD12	1:I:61:TYR:CZ	2.50	0.47
1:I:53:LEU:O	1:I:56:MET:N	2.47	0.47
1:I:154:ARG:O	1:I:155:LYS:C	2.57	0.47
1:I:187:ASN:HD22	1:I:187:ASN:C	2.19	0.47
2:J:55:VAL:O	2:J:58:MET:CB	2.60	0.47
2:J:130:LEU:HD23	2:J:130:LEU:HA	1.44	0.47
1:K:196:VAL:CG1	1:K:248:ARG:HD2	2.44	0.47
1:K:208:MET:C	1:K:212:PHE:HB2	2.39	0.47
1:K:212:PHE:O	1:K:216:VAL:CG2	2.55	0.47
2:L:351:ILE:HD11	2:L:384:VAL:HG11	1.97	0.47
2:L:551:GLU:C	2:L:553:ASP:N	2.72	0.47
3:N:104:ARG:CA	3:N:107:PHE:CE1	2.94	0.47
3:O:333:LYS:HB2	3:O:333:LYS:NZ	2.30	0.47
3:R:29:GLU:O	3:R:30:VAL:C	2.58	0.47
4:S:53:ARG:O	4:S:54:ASP:CB	2.63	0.47
4:T:21:LEU:O	4:T:22:ALA:C	2.57	0.47
4:T:50:LEU:HB3	4:T:57:VAL:HG23	1.96	0.47
4:U:50:LEU:HB3	4:U:57:VAL:HG23	1.96	0.47
3:V:203:PHE:CD1	3:V:203:PHE:N	2.83	0.47
4:W:31:MET:O	4:W:32:VAL:O	2.32	0.47
4:W:71:ILE:CG2	4:W:75:ASP:HB3	2.43	0.47
4:X:21:LEU:O	4:X:22:ALA:C	2.57	0.47
1:A:5:ILE:HB	1:A:52:LYS:NZ	2.27	0.46
1:A:237:VAL:HG22	4:S:86:ARG:HH12	1.80	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:255:ILE:HG23	1:A:256:LEU:N	2.29	0.46
1:A:350:ILE:HG21	1:A:368:LEU:CD2	2.45	0.46
1:A:478:TRP:CE3	1:A:478:TRP:CA	2.98	0.46
1:A:561:GLN:HE21	1:A:565:GLU:HG3	1.79	0.46
2:B:267:MET:HE1	2:B:281:LEU:HD21	1.97	0.46
2:B:327:LYS:HB2	2:B:330:ASP:OD1	2.15	0.46
1:C:47:CYS:SG	1:C:48:ARG:N	2.87	0.46
1:C:426:LEU:O	1:C:427:THR:C	2.58	0.46
1:C:532:LYS:CA	1:C:581:LEU:HD13	2.35	0.46
1:C:558:GLU:OE2	2:D:482:LEU:HD23	2.15	0.46
1:C:585:PRO:C	1:C:586:VAL:CG2	2.87	0.46
2:D:130:LEU:HD23	2:D:130:LEU:HA	1.44	0.46
2:D:154:GLN:CB	2:D:158:ASP:OD2	2.53	0.46
2:D:184:LEU:O	2:D:185:SER:C	2.56	0.46
2:D:323:VAL:CG2	2:D:324:PHE:HD1	2.17	0.46
2:D:385:GLU:O	2:D:387:SER:N	2.47	0.46
2:D:453:GLY:O	2:D:454:GLU:C	2.57	0.46
2:D:494:LYS:HA	2:D:494:LYS:HD2	1.75	0.46
1:E:176:LEU:N	1:E:177:PRO:CD	2.78	0.46
1:E:237:VAL:HG22	4:U:86:ARG:HH12	1.80	0.46
1:E:248:ARG:O	1:E:249:ILE:C	2.58	0.46
1:E:423:MET:O	1:E:424:ARG:C	2.56	0.46
1:E:502:GLU:HG3	1:E:537:PHE:CD2	2.50	0.46
2:F:102:ILE:O	2:F:105:LEU:N	2.48	0.46
2:F:175:MET:O	2:F:178:ALA:CB	2.63	0.46
2:F:216:GLU:HB2	2:F:217:TRP:HE3	1.67	0.46
2:F:468:SER:OG	2:F:469:PHE:N	2.47	0.46
1:G:48:ARG:O	1:G:49:ASN:C	2.58	0.46
1:G:164:VAL:O	1:G:165:ILE:C	2.58	0.46
2:H:7:PHE:HD2	4:Q:99:CYS:HA	1.81	0.46
2:H:91:PHE:O	2:H:92:VAL:C	2.58	0.46
2:H:411:ILE:HD12	2:H:411:ILE:N	2.30	0.46
1:I:164:VAL:O	1:I:165:ILE:C	2.58	0.46
1:I:176:LEU:N	1:I:177:PRO:CD	2.78	0.46
1:I:178:ALA:O	1:I:182:LEU:HG	2.14	0.46
1:I:301:SER:HB2	1:I:305:LEU:HD23	1.96	0.46
1:I:502:GLU:HG3	1:I:537:PHE:CD2	2.50	0.46
1:I:535:THR:O	1:I:535:THR:HG22	2.15	0.46
2:J:30:LYS:O	2:J:34:VAL:HG23	2.15	0.46
2:J:67:LYS:O	2:J:70:TYR:N	2.47	0.46
2:J:399:ILE:HG23	2:J:407:VAL:HG13	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:156:LYS:O	4:W:119:MET:HE1	2.15	0.46
1:K:310:ILE:O	1:K:313:LEU:N	2.48	0.46
1:K:558:GLU:OE2	2:L:482:LEU:HD23	2.15	0.46
2:L:7:PHE:HD2	4:W:99:CYS:HA	1.81	0.46
2:L:79:SER:C	2:L:81:PRO:HD3	2.40	0.46
2:L:390:ARG:NH1	2:L:390:ARG:HG2	2.30	0.46
2:L:556:GLU:HB3	2:L:557:PRO:CD	2.45	0.46
3:M:198:ILE:HD12	3:M:265:MET:HB3	1.96	0.46
3:M:408:TRP:N	3:M:408:TRP:HD1	2.12	0.46
3:N:36:ILE:HG22	3:N:50:LEU:HD23	1.96	0.46
3:P:29:GLU:O	3:P:30:VAL:C	2.58	0.46
3:P:333:LYS:HB2	3:P:333:LYS:NZ	2.30	0.46
4:Q:4:PHE:C	4:Q:4:PHE:HD1	2.24	0.46
3:R:374:PRO:HA	3:R:375:PRO:HD3	1.76	0.46
4:U:84:ILE:C	4:U:86:ARG:N	2.72	0.46
3:V:47:SER:C	3:V:49:ILE:H	2.23	0.46
3:V:253:ILE:N	3:V:253:ILE:CD1	2.78	0.46
1:A:287:ALA:O	1:A:288:ILE:C	2.58	0.46
1:A:504:GLU:O	1:A:505:VAL:C	2.58	0.46
2:B:45:LYS:HG2	2:B:46:ASP:N	2.30	0.46
2:B:239:SER:O	2:B:243:ARG:HG2	2.16	0.46
2:B:556:GLU:HB3	2:B:557:PRO:CD	2.45	0.46
1:C:350:ILE:HG21	1:C:368:LEU:CD2	2.45	0.46
2:D:102:ILE:O	2:D:105:LEU:N	2.48	0.46
2:D:390:ARG:CG	2:D:390:ARG:HH11	2.26	0.46
2:D:399:ILE:C	2:D:401:THR:N	2.72	0.46
2:D:411:ILE:HD12	2:D:411:ILE:N	2.30	0.46
2:D:426:GLU:C	2:D:428:VAL:N	2.74	0.46
1:E:254:ARG:CB	1:E:295:THR:HG23	2.45	0.46
1:E:278:THR:HG22	1:E:279:GLU:N	2.30	0.46
2:F:15:ILE:O	2:F:16:PHE:C	2.58	0.46
2:F:79:SER:C	2:F:81:PRO:HD3	2.40	0.46
2:F:339:LEU:C	2:F:341:ILE:N	2.74	0.46
2:F:399:ILE:HG23	2:F:407:VAL:HG13	1.97	0.46
1:G:7:LEU:O	1:G:10:LEU:N	2.49	0.46
1:G:208:MET:C	1:G:212:PHE:HB2	2.39	0.46
1:G:237:VAL:HG22	4:Q:86:ARG:HH12	1.80	0.46
1:G:254:ARG:CA	1:G:295:THR:HG23	2.44	0.46
1:G:535:THR:O	1:G:535:THR:CG2	2.63	0.46
2:H:157:GLU:O	2:H:161:PHE:CD1	2.68	0.46
2:H:267:MET:HE1	2:H:281:LEU:HD21	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:323:VAL:CG2	2:H:324:PHE:HD1	2.17	0.46
1:I:5:ILE:HB	1:I:52:LYS:NZ	2.27	0.46
1:I:7:LEU:O	1:I:10:LEU:N	2.49	0.46
1:I:414:SER:HA	1:I:415:LYS:NZ	2.29	0.46
1:I:502:GLU:O	1:I:506:LEU:HG	2.16	0.46
1:I:531:MET:C	1:I:533:LEU:N	2.71	0.46
2:J:38:ILE:O	2:J:42:THR:HG23	2.15	0.46
2:J:74:MET:O	2:J:75:ASN:C	2.59	0.46
2:J:351:ILE:HD11	2:J:384:VAL:HG11	1.97	0.46
2:J:411:ILE:HD12	2:J:411:ILE:N	2.30	0.46
2:J:411:ILE:HG22	2:J:412:VAL:N	2.29	0.46
1:K:426:LEU:O	1:K:427:THR:C	2.58	0.46
1:K:502:GLU:HG3	1:K:537:PHE:CD2	2.50	0.46
2:L:38:ILE:O	2:L:42:THR:HG23	2.15	0.46
2:L:45:LYS:HG2	2:L:46:ASP:N	2.30	0.46
2:L:173:ASN:O	2:L:177:VAL:HG23	2.15	0.46
2:L:267:MET:HE1	2:L:281:LEU:HD21	1.97	0.46
2:L:297:GLU:OE2	3:V:60:ILE:HG22	2.15	0.46
2:L:436:LEU:C	2:L:436:LEU:CD1	2.84	0.46
3:M:29:GLU:O	3:M:30:VAL:C	2.58	0.46
3:M:202:VAL:HG12	3:M:203:PHE:N	2.30	0.46
3:N:62:HIS:CD2	3:N:98:LEU:HD23	2.50	0.46
3:N:240:GLN:O	3:N:242:VAL:N	2.48	0.46
3:N:327:THR:OG1	3:N:356:MET:HG2	2.14	0.46
3:O:203:PHE:N	3:O:203:PHE:CD1	2.83	0.46
3:O:325:PHE:CD2	3:O:358:ALA:HB1	2.50	0.46
3:P:408:TRP:N	3:P:408:TRP:HD1	2.12	0.46
4:Q:32:VAL:O	4:Q:33:ARG:C	2.59	0.46
4:Q:108:GLU:O	4:Q:111:TYR:HB2	2.15	0.46
4:U:71:ILE:HG21	4:U:75:ASP:CB	2.44	0.46
3:V:43:GLU:C	3:V:45:MET:N	2.72	0.46
3:V:355:LEU:HD12	3:V:356:MET:H	1.78	0.46
4:W:88:VAL:HG23	4:W:89:GLU:H	1.78	0.46
4:W:108:GLU:O	4:W:111:TYR:HB2	2.15	0.46
4:X:87:TYR:CE2	4:X:91:LEU:HD11	2.50	0.46
1:A:176:LEU:N	1:A:177:PRO:CD	2.78	0.46
1:A:423:MET:O	1:A:424:ARG:C	2.56	0.46
1:A:524:GLY:C	1:A:526:ALA:N	2.74	0.46
1:A:531:MET:C	1:A:533:LEU:N	2.71	0.46
2:B:173:ASN:O	2:B:177:VAL:HG23	2.15	0.46
2:B:216:GLU:HB2	2:B:217:TRP:HE3	1.67	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:297:GLU:OE2	3:M:60:ILE:HG22	2.15	0.46
2:B:390:ARG:HG2	2:B:390:ARG:NH1	2.30	0.46
2:B:411:ILE:H	2:B:411:ILE:CD1	2.28	0.46
2:B:436:LEU:O	2:B:436:LEU:HD22	2.16	0.46
2:B:444:ALA:O	2:B:445:ARG:C	2.57	0.46
2:B:523:GLY:O	2:B:524:TYR:C	2.59	0.46
1:C:453:ALA:O	1:C:454:TYR:C	2.58	0.46
2:D:18:LEU:N	2:D:18:LEU:CD2	2.78	0.46
2:D:27:LYS:HA	2:D:30:LYS:HD2	1.97	0.46
2:D:353:GLN:O	2:D:354:VAL:C	2.57	0.46
2:D:436:LEU:O	2:D:436:LEU:HD22	2.16	0.46
1:E:196:VAL:O	1:E:197:LEU:C	2.58	0.46
1:E:287:ALA:O	1:E:288:ILE:C	2.58	0.46
1:E:344:GLN:OE1	1:E:372:LEU:HD23	2.15	0.46
2:F:220:ILE:O	2:F:221:PHE:C	2.58	0.46
2:F:436:LEU:O	2:F:436:LEU:HD22	2.16	0.46
1:G:115:THR:HB	1:G:118:VAL:HG23	1.97	0.46
1:G:173:GLU:O	1:G:175:PHE:N	2.48	0.46
2:H:30:LYS:O	2:H:34:VAL:HG23	2.15	0.46
2:H:239:SER:O	2:H:243:ARG:HG2	2.16	0.46
2:H:304:ARG:HG3	2:H:575:HIS:NE2	2.31	0.46
2:H:374:VAL:C	2:H:376:ALA:N	2.71	0.46
2:H:411:ILE:HG22	2:H:412:VAL:N	2.29	0.46
2:H:426:GLU:C	2:H:428:VAL:N	2.74	0.46
2:H:491:LEU:HD12	2:H:491:LEU:C	2.39	0.46
2:H:516:ASN:O	2:H:519:LEU:HB3	2.14	0.46
1:I:115:THR:HB	1:I:118:VAL:HG23	1.97	0.46
2:J:12:LYS:CG	2:J:13:GLY:N	2.73	0.46
2:J:45:LYS:HG2	2:J:46:ASP:N	2.30	0.46
2:J:175:MET:O	2:J:178:ALA:CB	2.63	0.46
2:J:220:ILE:O	2:J:221:PHE:C	2.58	0.46
2:J:311:GLN:CG	2:J:555:ILE:HD12	2.45	0.46
2:J:392:VAL:O	2:J:393:SER:C	2.59	0.46
2:J:399:ILE:C	2:J:401:THR:N	2.72	0.46
1:K:254:ARG:CB	1:K:295:THR:HG23	2.45	0.46
1:K:502:GLU:O	1:K:506:LEU:HG	2.16	0.46
2:L:102:ILE:O	2:L:105:LEU:N	2.48	0.46
2:L:411:ILE:HG22	2:L:412:VAL:N	2.29	0.46
3:M:192:SER:OG	3:M:271:THR:O	2.33	0.46
3:N:215:ASN:HB2	3:N:391:GLN:O	2.14	0.46
3:O:84:LEU:O	3:O:87:VAL:N	2.49	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:O:91:PHE:C	3:O:93:GLU:N	2.73	0.46
3:P:47:SER:C	3:P:49:ILE:H	2.23	0.46
4:Q:88:VAL:O	4:Q:89:GLU:C	2.59	0.46
3:R:47:SER:C	3:R:49:ILE:H	2.23	0.46
4:S:108:GLU:O	4:S:111:TYR:HB2	2.15	0.46
4:U:32:VAL:O	4:U:33:ARG:C	2.59	0.46
4:U:87:TYR:CE2	4:U:91:LEU:HD11	2.50	0.46
3:V:32:HIS:O	3:V:33:PHE:C	2.57	0.46
3:V:333:LYS:HB2	3:V:333:LYS:NZ	2.30	0.46
4:W:134:ALA:O	4:W:135:ILE:C	2.59	0.46
4:X:7:LEU:CD2	4:X:66:TYR:O	2.64	0.46
4:X:134:ALA:O	4:X:135:ILE:C	2.59	0.46
1:A:25:GLU:O	1:A:26:MET:C	2.59	0.46
1:A:254:ARG:CB	1:A:295:THR:HG23	2.45	0.46
1:A:451:MET:HE2	1:A:451:MET:N	2.30	0.46
1:A:502:GLU:HG3	1:A:537:PHE:CD2	2.50	0.46
1:A:535:THR:HG22	1:A:535:THR:O	2.15	0.46
2:B:204:ILE:HA	2:B:207:LEU:CD1	2.44	0.46
2:B:491:LEU:HD12	2:B:491:LEU:C	2.39	0.46
2:B:504:GLN:O	2:B:505:GLN:C	2.59	0.46
1:C:377:ASN:C	1:C:377:ASN:HD22	2.22	0.46
2:D:99:ASN:HA	2:D:100:PRO:HD2	1.75	0.46
2:D:175:MET:O	2:D:178:ALA:N	2.49	0.46
2:D:297:GLU:OE2	3:N:60:ILE:HG22	2.15	0.46
2:D:304:ARG:HG3	2:D:575:HIS:NE2	2.31	0.46
2:D:339:LEU:C	2:D:341:ILE:N	2.74	0.46
2:D:411:ILE:HG22	2:D:412:VAL:N	2.29	0.46
2:D:419:ARG:HB3	2:D:548:ILE:HD13	1.98	0.46
1:E:27:ILE:HD12	1:E:61:TYR:CZ	2.50	0.46
1:E:147:LYS:HA	1:E:147:LYS:CE	2.39	0.46
1:E:187:ASN:O	1:E:188:HIS:C	2.58	0.46
1:E:426:LEU:O	1:E:427:THR:C	2.58	0.46
2:F:38:ILE:O	2:F:42:THR:HG23	2.15	0.46
2:F:239:SER:O	2:F:243:ARG:HG2	2.16	0.46
2:F:305:ASN:N	2:F:305:ASN:HD22	2.13	0.46
2:F:327:LYS:HB2	2:F:330:ASP:OD1	2.15	0.46
1:G:305:LEU:O	1:G:306:ARG:C	2.59	0.46
1:G:395:GLU:HB2	1:G:396:PHE:HD1	1.81	0.46
1:G:494:GLU:OE1	1:G:494:GLU:HA	2.15	0.46
2:H:122:LEU:O	2:H:123:CYS:C	2.59	0.46
2:H:220:ILE:O	2:H:221:PHE:C	2.58	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:307:ASN:O	2:H:308:LEU:C	2.58	0.46
2:H:556:GLU:HB3	2:H:557:PRO:CD	2.45	0.46
1:I:70:CYS:O	1:I:73:LEU:HB2	2.16	0.46
1:I:467:TYR:OH	1:I:511:SER:CB	2.64	0.46
1:I:494:GLU:OE1	1:I:494:GLU:HA	2.16	0.46
2:J:175:MET:O	2:J:176:VAL:C	2.57	0.46
2:J:304:ARG:HG3	2:J:575:HIS:NE2	2.31	0.46
2:J:326:VAL:HG22	2:J:361:TYR:CZ	2.50	0.46
2:J:556:GLU:HB3	2:J:557:PRO:CD	2.45	0.46
1:K:21:ALA:O	1:K:24:ARG:HB2	2.15	0.46
1:K:58:MET:HE1	4:W:15:ARG:CA	2.46	0.46
1:K:86:TYR:O	1:K:87:LEU:C	2.59	0.46
1:K:132:SER:O	1:K:133:GLU:C	2.59	0.46
1:K:415:LYS:O	1:K:416:ARG:C	2.58	0.46
2:L:175:MET:O	2:L:178:ALA:N	2.49	0.46
2:L:261:LYS:HA	2:L:567:ILE:HD12	1.97	0.46
2:L:411:ILE:HD12	2:L:411:ILE:N	2.30	0.46
2:L:491:LEU:HD12	2:L:491:LEU:C	2.39	0.46
3:M:21:TYR:CE1	3:M:118:MET:HE3	2.49	0.46
3:M:32:HIS:O	3:M:33:PHE:C	2.57	0.46
3:N:203:PHE:CD1	3:N:203:PHE:N	2.83	0.46
3:O:43:GLU:C	3:O:45:MET:N	2.72	0.46
3:P:42:GLU:HG3	3:P:302:LYS:HB3	1.98	0.46
4:Q:50:LEU:HB3	4:Q:57:VAL:HG23	1.96	0.46
4:Q:87:TYR:CZ	4:Q:114:LEU:HB2	2.49	0.46
3:R:325:PHE:CD2	3:R:358:ALA:HB1	2.50	0.46
4:T:134:ALA:O	4:T:135:ILE:C	2.59	0.46
4:W:30:LYS:HZ3	4:W:33:ARG:HH21	1.64	0.46
4:X:53:ARG:O	4:X:54:ASP:CB	2.63	0.46
4:X:147:SER:O	4:X:149:ARG:N	2.49	0.46
1:A:5:ILE:O	1:A:52:LYS:NZ	2.46	0.46
1:A:14:ILE:H	1:A:14:ILE:CD1	2.17	0.46
1:A:46:ARG:O	1:A:50:VAL:HG23	2.16	0.46
1:A:185:GLU:HG3	1:A:186:LYS:N	2.30	0.46
1:A:414:SER:HA	1:A:415:LYS:NZ	2.30	0.46
1:A:476:ALA:C	1:A:478:TRP:N	2.72	0.46
2:B:102:ILE:O	2:B:105:LEU:N	2.48	0.46
1:C:415:LYS:O	1:C:416:ARG:C	2.58	0.46
1:C:535:THR:O	1:C:535:THR:HG22	2.15	0.46
2:D:220:ILE:O	2:D:221:PHE:C	2.58	0.46
2:D:239:SER:O	2:D:243:ARG:HG2	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:118:VAL:O	1:E:119:GLN:C	2.58	0.46
1:E:310:ILE:O	1:E:311:ASN:C	2.59	0.46
2:F:151:ILE:C	2:F:153:ALA:H	2.23	0.46
2:F:297:GLU:OE2	3:O:60:ILE:HG22	2.15	0.46
2:F:491:LEU:HD12	2:F:491:LEU:C	2.39	0.46
2:H:96:GLU:O	2:H:97:ASP:C	2.58	0.46
2:H:102:ILE:O	2:H:105:LEU:N	2.48	0.46
2:H:468:SER:OG	2:H:469:PHE:N	2.47	0.46
2:H:570:LEU:CD1	3:P:75:ALA:H	2.28	0.46
2:J:175:MET:O	2:J:178:ALA:N	2.49	0.46
2:J:179:ASN:HD22	2:J:179:ASN:N	2.14	0.46
2:J:436:LEU:O	2:J:439:ASP:OD2	2.33	0.46
1:K:196:VAL:O	1:K:197:LEU:C	2.58	0.46
1:K:535:THR:O	1:K:535:THR:CG2	2.63	0.46
2:L:157:GLU:O	2:L:161:PHE:CD1	2.68	0.46
2:L:239:SER:O	2:L:243:ARG:HG2	2.16	0.46
3:M:104:ARG:CA	3:M:107:PHE:HE1	2.25	0.46
3:M:204:LEU:HD23	3:M:204:LEU:HA	1.73	0.46
3:N:323:PRO:HB3	3:N:325:PHE:HE2	1.81	0.46
3:N:380:PHE:CD1	3:N:380:PHE:N	2.76	0.46
3:P:86:LYS:O	3:P:87:VAL:C	2.57	0.46
3:P:202:VAL:HG12	3:P:203:PHE:N	2.30	0.46
3:P:255:PHE:N	3:P:255:PHE:HD2	2.14	0.46
4:Q:7:LEU:CD2	4:Q:66:TYR:O	2.64	0.46
3:R:32:HIS:O	3:R:33:PHE:C	2.57	0.46
3:R:37:LEU:O	3:R:38:MET:C	2.59	0.46
3:R:84:LEU:O	3:R:87:VAL:N	2.49	0.46
3:R:194:ILE:HD11	3:R:269:LEU:HD12	1.98	0.46
4:S:7:LEU:CD2	4:S:66:TYR:O	2.64	0.46
4:U:71:ILE:CG2	4:U:72:GLU:H	2.26	0.46
4:U:107:PHE:CD2	4:U:107:PHE:N	2.82	0.46
4:W:31:MET:CE	4:W:52:TRP:HH2	2.27	0.46
4:W:62:TYR:O	4:W:63:ALA:C	2.57	0.46
4:X:71:ILE:CG2	4:X:75:ASP:HB3	2.43	0.46
4:X:108:GLU:O	4:X:111:TYR:HB2	2.15	0.46
1:A:243:PRO:O	1:A:246:GLN:HB2	2.16	0.46
1:A:443:GLN:HA	1:A:446:THR:CG2	2.45	0.46
2:B:33:ALA:O	2:B:34:VAL:C	2.56	0.46
2:B:34:VAL:O	2:B:37:VAL:HB	2.16	0.46
2:B:411:ILE:HG22	2:B:412:VAL:N	2.29	0.46
2:B:426:GLU:C	2:B:428:VAL:N	2.74	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:175:MET:O	2:D:178:ALA:CB	2.63	0.46
2:D:351:ILE:HD11	2:D:384:VAL:HG11	1.97	0.46
2:D:359:LYS:O	2:D:360:GLU:C	2.57	0.46
2:D:499:THR:O	2:D:500:GLN:O	2.34	0.46
2:D:570:LEU:CD1	3:N:75:ALA:H	2.28	0.46
2:D:577:PRO:C	2:D:579:ASN:N	2.74	0.46
1:E:11:ILE:C	1:E:13:THR:N	2.72	0.46
1:E:21:ALA:O	1:E:24:ARG:HB2	2.15	0.46
1:E:467:TYR:OH	1:E:511:SER:CB	2.64	0.46
1:E:494:GLU:OE1	1:E:494:GLU:HA	2.15	0.46
2:F:169:ILE:O	2:F:170:SER:C	2.59	0.46
2:F:304:ARG:HG3	2:F:575:HIS:NE2	2.31	0.46
2:F:399:ILE:C	2:F:401:THR:N	2.72	0.46
2:F:436:LEU:HD13	2:F:436:LEU:O	2.16	0.46
2:F:483:GLN:OE1	2:F:483:GLN:N	2.49	0.46
2:F:577:PRO:C	2:F:579:ASN:N	2.74	0.46
1:G:502:GLU:O	1:G:506:LEU:HG	2.16	0.46
2:H:175:MET:O	2:H:178:ALA:N	2.49	0.46
2:H:179:ASN:N	2:H:179:ASN:HD22	2.14	0.46
2:H:297:GLU:OE2	3:P:60:ILE:HG22	2.15	0.46
2:H:400:GLN:HE21	2:H:400:GLN:HA	1.81	0.46
2:H:415:LYS:HG2	2:H:416:ASP:N	2.30	0.46
2:H:453:GLY:O	2:H:454:GLU:C	2.57	0.46
1:I:86:TYR:O	1:I:87:LEU:C	2.59	0.46
1:I:185:GLU:HG3	1:I:186:LYS:N	2.30	0.46
1:I:344:GLN:OE1	1:I:372:LEU:HD23	2.15	0.46
1:I:350:ILE:HG21	1:I:368:LEU:CD2	2.45	0.46
1:I:370:PHE:HD2	1:I:370:PHE:HA	1.65	0.46
1:I:453:ALA:O	1:I:454:TYR:C	2.58	0.46
1:I:453:ALA:C	1:I:455:THR:N	2.72	0.46
2:J:18:LEU:N	2:J:18:LEU:CD2	2.78	0.46
2:J:260:VAL:O	2:J:261:LYS:C	2.59	0.46
2:J:321:MET:O	2:J:323:VAL:N	2.49	0.46
1:K:7:LEU:O	1:K:10:LEU:N	2.49	0.46
1:K:25:GLU:O	1:K:26:MET:C	2.59	0.46
1:K:159:LEU:O	1:K:160:CYS:C	2.55	0.46
1:K:287:ALA:O	1:K:288:ILE:C	2.58	0.46
1:K:443:GLN:HA	1:K:446:THR:CG2	2.45	0.46
2:L:34:VAL:O	2:L:37:VAL:HB	2.16	0.46
2:L:55:VAL:O	2:L:58:MET:CB	2.60	0.46
2:L:400:GLN:HE21	2:L:400:GLN:HA	1.81	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:411:ILE:CD1	2:L:411:ILE:H	2.28	0.46
2:L:504:GLN:O	2:L:505:GLN:C	2.59	0.46
3:M:62:HIS:CD2	3:M:98:LEU:HD23	2.50	0.46
3:M:294:MET:HE2	3:M:357:ARG:NH1	2.31	0.46
3:M:343:TRP:CZ2	3:M:356:MET:HB2	2.51	0.46
3:N:87:VAL:HG12	3:N:91:PHE:CE2	2.50	0.46
3:N:160:ARG:C	3:N:161:SER:O	2.59	0.46
3:N:253:ILE:N	3:N:253:ILE:CD1	2.78	0.46
3:O:294:MET:HE2	3:O:357:ARG:NH1	2.31	0.46
4:Q:30:LYS:HZ3	4:Q:33:ARG:HH21	1.63	0.46
4:Q:147:SER:O	4:Q:149:ARG:N	2.49	0.46
3:R:203:PHE:CD1	3:R:203:PHE:N	2.83	0.46
3:R:240:GLN:O	3:R:242:VAL:N	2.48	0.46
3:R:323:PRO:HB3	3:R:325:PHE:HE2	1.81	0.46
4:U:88:VAL:HG23	4:U:89:GLU:H	1.78	0.46
4:U:88:VAL:O	4:U:89:GLU:C	2.59	0.46
3:V:84:LEU:O	3:V:87:VAL:N	2.49	0.46
4:W:53:ARG:O	4:W:54:ASP:CB	2.63	0.46
4:X:7:LEU:HD21	4:X:67:PHE:CG	2.51	0.46
4:X:30:LYS:CB	4:X:30:LYS:NZ	2.78	0.46
1:A:56:MET:O	1:A:57:HIS:C	2.58	0.46
1:A:453:ALA:O	1:A:454:TYR:C	2.58	0.46
2:B:339:LEU:C	2:B:341:ILE:N	2.74	0.46
1:C:196:VAL:O	1:C:197:LEU:C	2.58	0.46
1:C:264:SER:C	1:C:266:ALA:N	2.71	0.46
1:C:278:THR:HG22	1:C:279:GLU:N	2.30	0.46
1:C:305:LEU:O	1:C:306:ARG:C	2.59	0.46
1:C:425:VAL:HG13	1:C:426:LEU:HD22	1.97	0.46
1:C:460:TYR:O	1:C:461:LYS:C	2.59	0.46
2:D:55:VAL:O	2:D:58:MET:CB	2.60	0.46
2:D:310:VAL:CG1	2:D:317:LEU:HD21	2.42	0.46
2:D:400:GLN:HE21	2:D:400:GLN:HA	1.81	0.46
2:D:523:GLY:O	2:D:524:TYR:C	2.59	0.46
1:E:7:LEU:O	1:E:10:LEU:N	2.49	0.46
2:F:27:LYS:HA	2:F:30:LYS:HD2	1.97	0.46
2:F:359:LYS:O	2:F:360:GLU:C	2.57	0.46
1:G:176:LEU:N	1:G:177:PRO:CD	2.78	0.46
1:G:524:GLY:C	1:G:526:ALA:N	2.74	0.46
1:G:558:GLU:OE2	2:H:482:LEU:HD23	2.15	0.46
2:H:175:MET:O	2:H:178:ALA:CB	2.63	0.46
1:I:73:LEU:C	1:I:75:ALA:N	2.71	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:278:THR:HG22	1:I:279:GLU:N	2.30	0.46
1:I:395:GLU:HB2	1:I:396:PHE:HD1	1.81	0.46
1:I:443:GLN:HA	1:I:446:THR:CG2	2.45	0.46
1:I:558:GLU:OE2	2:J:482:LEU:HD23	2.16	0.46
1:I:581:LEU:C	1:I:583:ARG:N	2.69	0.46
2:J:15:ILE:O	2:J:16:PHE:C	2.58	0.46
2:J:154:GLN:CB	2:J:158:ASP:OD2	2.52	0.46
2:J:390:ARG:HG2	2:J:390:ARG:NH1	2.30	0.46
2:J:419:ARG:HB3	2:J:548:ILE:HD13	1.98	0.46
2:J:468:SER:OG	2:J:469:PHE:N	2.47	0.46
2:J:491:LEU:HD12	2:J:491:LEU:C	2.39	0.46
2:J:494:LYS:HA	2:J:494:LYS:HD2	1.75	0.46
2:J:570:LEU:CD1	3:R:74:ASN:HA	2.44	0.46
1:K:46:ARG:O	1:K:50:VAL:HG23	2.16	0.46
1:K:460:TYR:O	1:K:461:LYS:C	2.59	0.46
1:K:504:GLU:O	1:K:505:VAL:C	2.58	0.46
2:L:30:LYS:O	2:L:34:VAL:HG23	2.15	0.46
2:L:307:ASN:O	2:L:308:LEU:C	2.58	0.46
2:L:327:LYS:HB2	2:L:330:ASP:OD1	2.15	0.46
2:L:399:ILE:C	2:L:401:THR:H	2.23	0.46
2:L:453:GLY:O	2:L:454:GLU:C	2.57	0.46
3:M:37:LEU:O	3:M:38:MET:C	2.59	0.46
3:N:343:TRP:CZ2	3:N:356:MET:HB2	2.51	0.46
3:O:24:ASP:C	3:O:26:ASP:N	2.71	0.46
3:O:213:GLY:HA3	3:O:394:TYR:CE1	2.51	0.46
4:Q:31:MET:CE	4:Q:52:TRP:HH2	2.27	0.46
3:R:22:ARG:CG	3:R:23:GLY:N	2.76	0.46
3:R:42:GLU:HG3	3:R:302:LYS:HB3	1.98	0.46
3:R:294:MET:HE2	3:R:357:ARG:NH1	2.31	0.46
4:S:90:LEU:CD2	4:S:90:LEU:N	2.79	0.46
4:U:108:GLU:O	4:U:111:TYR:HB2	2.15	0.46
3:V:83:PHE:C	3:V:83:PHE:CD1	2.89	0.46
3:V:119:ASP:C	3:V:121:GLY:N	2.71	0.46
3:V:194:ILE:HD11	3:V:269:LEU:HD12	1.98	0.46
4:W:25:ASP:O	4:W:26:LYS:C	2.59	0.46
4:W:59:TYR:CD2	4:W:59:TYR:N	2.83	0.46
4:X:84:ILE:C	4:X:86:ARG:N	2.72	0.46
1:A:121:LEU:O	1:A:122:ALA:C	2.58	0.46
1:A:156:LYS:O	4:S:119:MET:HE1	2.15	0.46
1:A:164:VAL:O	1:A:165:ILE:C	2.58	0.46
1:A:183:LEU:HD23	1:A:183:LEU:HA	1.63	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:278:THR:HG22	1:A:279:GLU:N	2.30	0.46
1:A:494:GLU:HA	1:A:494:GLU:OE1	2.16	0.46
1:A:535:THR:O	1:A:535:THR:CG2	2.63	0.46
1:A:558:GLU:OE2	2:B:482:LEU:HD23	2.15	0.46
2:B:225:CYS:O	2:B:227:GLY:N	2.49	0.46
2:B:304:ARG:HG3	2:B:575:HIS:NE2	2.31	0.46
2:B:384:VAL:O	2:B:387:SER:OG	2.27	0.46
1:C:7:LEU:O	1:C:10:LEU:N	2.49	0.46
1:C:58:MET:HE1	4:T:15:ARG:CA	2.45	0.46
1:C:118:VAL:O	1:C:119:GLN:C	2.58	0.46
1:C:172:MET:N	1:C:172:MET:CE	2.68	0.46
1:C:237:VAL:HG22	4:T:86:ARG:HH12	1.80	0.46
1:C:478:TRP:CE3	1:C:478:TRP:CA	2.98	0.46
2:D:33:ALA:O	2:D:34:VAL:C	2.56	0.46
2:D:34:VAL:O	2:D:37:VAL:HB	2.16	0.46
2:D:74:MET:O	2:D:75:ASN:C	2.59	0.46
2:D:96:GLU:O	2:D:97:ASP:C	2.58	0.46
2:D:157:GLU:O	2:D:161:PHE:CD1	2.68	0.46
2:D:436:LEU:HD13	2:D:436:LEU:O	2.16	0.46
2:D:444:ALA:O	2:D:445:ARG:C	2.57	0.46
2:D:504:GLN:O	2:D:505:GLN:C	2.59	0.46
2:D:556:GLU:HB3	2:D:557:PRO:CD	2.45	0.46
1:E:395:GLU:HB2	1:E:396:PHE:HD1	1.81	0.46
1:E:411:TYR:CD1	1:E:411:TYR:N	2.80	0.46
1:E:415:LYS:O	1:E:416:ARG:C	2.58	0.46
2:F:58:MET:O	2:F:60:THR:N	2.42	0.46
2:F:136:TYR:CD1	3:O:134:PHE:HE2	2.33	0.46
2:F:260:VAL:O	2:F:261:LYS:C	2.59	0.46
2:F:267:MET:HE1	2:F:281:LEU:HD21	1.97	0.46
2:F:321:MET:O	2:F:323:VAL:N	2.49	0.46
2:F:351:ILE:HD11	2:F:384:VAL:HG11	1.97	0.46
2:F:426:GLU:C	2:F:428:VAL:N	2.74	0.46
1:G:121:LEU:O	1:G:122:ALA:C	2.58	0.46
1:G:248:ARG:O	1:G:249:ILE:C	2.58	0.46
1:G:254:ARG:CB	1:G:295:THR:HG23	2.45	0.46
1:G:535:THR:O	1:G:535:THR:HG22	2.15	0.46
2:H:34:VAL:O	2:H:37:VAL:HB	2.16	0.46
2:H:169:ILE:O	2:H:170:SER:C	2.59	0.46
2:H:399:ILE:C	2:H:401:THR:N	2.72	0.46
1:I:270:ILE:HG23	1:I:271:LEU:CD2	2.44	0.46
1:I:532:LYS:CA	1:I:581:LEU:HD13	2.35	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:122:LEU:O	2:J:123:CYS:C	2.59	0.46
2:J:415:LYS:HG2	2:J:416:ASP:N	2.30	0.46
2:J:504:GLN:O	2:J:505:GLN:C	2.59	0.46
1:K:36:SER:CA	1:K:39:ARG:HG2	2.41	0.46
1:K:48:ARG:O	1:K:49:ASN:C	2.58	0.46
1:K:173:GLU:C	1:K:175:PHE:H	2.24	0.46
1:K:330:THR:HG22	1:K:331:SER:N	2.31	0.46
1:K:344:GLN:OE1	1:K:372:LEU:HD23	2.15	0.46
1:K:467:TYR:OH	1:K:511:SER:CB	2.64	0.46
2:L:15:ILE:O	2:L:16:PHE:C	2.59	0.46
2:L:308:LEU:HD21	2:L:575:HIS:CG	2.51	0.46
2:L:392:VAL:O	2:L:393:SER:C	2.59	0.46
2:L:430:ALA:C	2:L:432:LEU:N	2.73	0.46
2:L:545:LYS:HA	2:L:546:PRO:HD3	1.44	0.46
3:M:84:LEU:O	3:M:87:VAL:N	2.49	0.46
3:N:37:LEU:O	3:N:38:MET:C	2.59	0.46
3:N:57:PHE:CD1	3:N:57:PHE:N	2.84	0.46
3:O:86:LYS:O	3:O:87:VAL:C	2.57	0.46
3:O:194:ILE:HD11	3:O:269:LEU:HD12	1.98	0.46
3:O:202:VAL:HG12	3:O:203:PHE:N	2.30	0.46
3:P:32:HIS:ND1	3:P:52:HIS:CD2	2.81	0.46
3:P:62:HIS:CD2	3:P:98:LEU:HD23	2.50	0.46
3:P:84:LEU:O	3:P:87:VAL:N	2.49	0.46
3:P:240:GLN:O	3:P:242:VAL:N	2.48	0.46
4:S:8:PHE:HE1	4:S:36:MET:HA	1.80	0.46
4:S:30:LYS:HZ3	4:S:33:ARG:HH21	1.64	0.46
4:S:147:SER:O	4:S:149:ARG:N	2.49	0.46
4:U:31:MET:CE	4:U:52:TRP:HH2	2.27	0.46
4:U:61:ARG:HG2	4:U:61:ARG:NH1	2.31	0.46
3:V:29:GLU:O	3:V:30:VAL:C	2.58	0.46
3:V:399:GLU:HG3	3:V:401:SER:N	2.29	0.46
4:X:88:VAL:O	4:X:89:GLU:C	2.59	0.46
1:A:284:VAL:O	1:A:285:GLY:C	2.59	0.46
1:A:467:TYR:OH	1:A:511:SER:CB	2.64	0.46
2:B:79:SER:O	2:B:81:PRO:HD3	2.16	0.46
2:D:267:MET:HE1	2:D:281:LEU:HD21	1.97	0.46
1:E:68:LEU:CG	1:E:69:GLU:H	2.08	0.46
1:E:70:CYS:O	1:E:73:LEU:HB2	2.16	0.46
1:E:173:GLU:C	1:E:175:PHE:H	2.24	0.46
1:E:270:ILE:HG23	1:E:271:LEU:CD2	2.44	0.46
1:E:453:ALA:O	1:E:454:TYR:C	2.58	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:502:GLU:O	1:E:506:LEU:HG	2.16	0.46
1:E:558:GLU:OE2	2:F:482:LEU:HD23	2.16	0.46
2:F:175:MET:O	2:F:178:ALA:N	2.49	0.46
2:F:499:THR:O	2:F:500:GLN:O	2.34	0.46
1:G:233:PRO:CD	2:J:464:GLU:OE2	2.63	0.46
2:H:15:ILE:O	2:H:16:PHE:C	2.59	0.46
2:H:74:MET:O	2:H:75:ASN:C	2.59	0.46
2:H:151:ILE:C	2:H:153:ALA:H	2.23	0.46
2:H:181:VAL:O	2:H:182:ALA:C	2.59	0.46
2:H:261:LYS:HA	2:H:567:ILE:HD12	1.97	0.46
2:H:351:ILE:HD11	2:H:384:VAL:HG11	1.97	0.46
2:H:390:ARG:NH1	2:H:390:ARG:HG2	2.30	0.46
2:H:419:ARG:HB3	2:H:548:ILE:HD13	1.98	0.46
2:H:499:THR:O	2:H:500:GLN:O	2.34	0.46
1:I:243:PRO:O	1:I:246:GLN:HB2	2.16	0.46
1:I:272:ALA:O	1:I:275:ALA:HB3	2.16	0.46
1:I:344:GLN:C	1:I:346:HIS:N	2.74	0.46
2:J:102:ILE:O	2:J:105:LEU:N	2.48	0.46
2:J:136:TYR:CD1	3:R:134:PHE:HE2	2.33	0.46
2:J:426:GLU:CA	2:J:429:ILE:HD13	2.44	0.46
1:K:278:THR:HG22	1:K:279:GLU:N	2.30	0.46
2:L:225:CYS:O	2:L:227:GLY:N	2.49	0.46
2:L:304:ARG:HG3	2:L:575:HIS:NE2	2.31	0.46
2:L:308:LEU:H	2:L:308:LEU:HG	1.61	0.46
2:L:436:LEU:O	2:L:436:LEU:HD22	2.16	0.46
2:L:577:PRO:C	2:L:579:ASN:N	2.74	0.46
3:N:21:TYR:CE1	3:N:118:MET:HE3	2.49	0.46
3:N:194:ILE:HD11	3:N:269:LEU:HD12	1.98	0.46
3:O:323:PRO:HB3	3:O:325:PHE:HE2	1.81	0.46
3:P:21:TYR:CE1	3:P:118:MET:HE3	2.49	0.46
3:P:34:MET:O	3:P:35:PRO:C	2.59	0.46
3:P:253:ILE:N	3:P:253:ILE:CD1	2.77	0.46
3:P:399:GLU:HG3	3:P:401:SER:N	2.29	0.46
4:Q:107:PHE:CD2	4:Q:107:PHE:N	2.82	0.46
3:R:34:MET:O	3:R:35:PRO:C	2.59	0.46
3:R:192:SER:OG	3:R:271:THR:O	2.33	0.46
3:V:202:VAL:HG12	3:V:203:PHE:N	2.30	0.46
4:W:30:LYS:HZ2	4:W:30:LYS:CB	2.27	0.46
4:W:114:LEU:O	4:W:117:PHE:N	2.44	0.46
4:X:71:ILE:HG21	4:X:75:ASP:CB	2.44	0.46
1:A:7:LEU:O	1:A:10:LEU:N	2.49	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:115:THR:HB	1:A:118:VAL:HG23	1.97	0.46
1:A:196:VAL:O	1:A:197:LEU:C	2.58	0.46
1:A:430:GLY:O	1:A:431:SER:C	2.59	0.46
2:B:308:LEU:HD21	2:B:575:HIS:CG	2.51	0.46
2:B:359:LYS:O	2:B:360:GLU:C	2.57	0.46
2:B:570:LEU:CD1	3:M:75:ALA:H	2.28	0.46
1:C:176:LEU:N	1:C:177:PRO:CD	2.78	0.46
1:C:257:GLY:O	1:C:299:ILE:HG23	2.16	0.46
1:C:330:THR:HG22	1:C:331:SER:N	2.31	0.46
2:D:38:ILE:O	2:D:42:THR:HG23	2.15	0.46
2:D:181:VAL:O	2:D:182:ALA:C	2.59	0.46
2:D:225:CYS:O	2:D:227:GLY:N	2.49	0.46
2:D:326:VAL:HG22	2:D:361:TYR:CZ	2.50	0.46
2:D:485:LEU:C	2:D:485:LEU:CD2	2.87	0.46
1:E:243:PRO:O	1:E:246:GLN:HB2	2.16	0.46
1:G:243:PRO:O	1:G:246:GLN:HB2	2.16	0.46
1:G:519:THR:CG2	1:G:520:SER:N	2.79	0.46
2:H:130:LEU:HD23	2:H:130:LEU:HA	1.44	0.46
2:H:305:ASN:N	2:H:305:ASN:HD22	2.13	0.46
2:H:305:ASN:ND2	2:H:572:SER:OG	2.49	0.46
2:H:399:ILE:C	2:H:401:THR:H	2.23	0.46
2:H:476:GLU:O	2:H:477:SER:C	2.59	0.46
1:I:25:GLU:O	1:I:26:MET:C	2.59	0.46
1:I:237:VAL:HG22	4:X:86:ARG:HH12	1.80	0.46
1:I:310:ILE:O	1:I:311:ASN:C	2.59	0.46
1:I:426:LEU:O	1:I:427:THR:C	2.58	0.46
1:I:504:GLU:O	1:I:505:VAL:C	2.58	0.46
2:J:339:LEU:C	2:J:341:ILE:N	2.74	0.46
2:J:373:ALA:O	2:J:376:ALA:CB	2.63	0.46
2:J:400:GLN:HA	2:J:400:GLN:HE21	1.81	0.46
2:J:436:LEU:HD13	2:J:436:LEU:O	2.16	0.46
1:K:11:ILE:C	1:K:13:THR:N	2.72	0.46
1:K:64:HIS:O	1:K:65:PHE:C	2.59	0.46
1:K:115:THR:HB	1:K:118:VAL:HG23	1.97	0.46
1:K:172:MET:SD	1:K:172:MET:C	2.99	0.46
1:K:243:PRO:O	1:K:246:GLN:HB2	2.16	0.46
1:K:257:GLY:O	1:K:299:ILE:HG23	2.17	0.46
1:K:310:ILE:O	1:K:311:ASN:C	2.59	0.46
1:K:344:GLN:C	1:K:346:HIS:N	2.74	0.46
1:K:451:MET:HE2	1:K:451:MET:N	2.30	0.46
2:L:18:LEU:N	2:L:18:LEU:CD2	2.78	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:175:MET:O	2:L:178:ALA:CB	2.63	0.46
3:M:241:CYS:O	3:M:255:PHE:CB	2.57	0.46
3:M:306:THR:HG22	3:M:349:PRO:CA	2.35	0.46
3:O:255:PHE:N	3:O:255:PHE:HD2	2.14	0.46
3:P:91:PHE:C	3:P:93:GLU:N	2.73	0.46
3:P:162:GLU:CG	3:P:163:GLY:N	2.79	0.46
3:P:294:MET:HE2	3:P:357:ARG:NH1	2.31	0.46
4:Q:7:LEU:HD21	4:Q:67:PHE:CG	2.51	0.46
3:R:314:ILE:HA	3:R:315:PRO:HD3	1.83	0.46
4:S:25:ASP:O	4:S:26:LYS:C	2.59	0.46
4:T:8:PHE:HE1	4:T:36:MET:HA	1.80	0.46
4:U:7:LEU:CD2	4:U:66:TYR:O	2.64	0.46
4:U:59:TYR:CD2	4:U:59:TYR:N	2.83	0.46
4:U:114:LEU:O	4:U:117:PHE:N	2.44	0.46
3:V:42:GLU:HG3	3:V:302:LYS:HB3	1.98	0.46
3:V:65:LEU:HD11	3:V:99:GLU:C	2.41	0.46
3:V:323:PRO:HB3	3:V:325:PHE:HE2	1.81	0.46
4:W:61:ARG:HG2	4:W:61:ARG:NH1	2.31	0.46
1:A:58:MET:HE1	4:S:15:ARG:CA	2.46	0.45
1:A:64:HIS:O	1:A:65:PHE:C	2.59	0.45
1:A:132:SER:O	1:A:133:GLU:C	2.58	0.45
1:A:257:GLY:O	1:A:299:ILE:HG23	2.16	0.45
1:A:310:ILE:O	1:A:311:ASN:C	2.59	0.45
1:A:395:GLU:HB2	1:A:396:PHE:HD1	1.80	0.45
1:A:502:GLU:O	1:A:506:LEU:HG	2.16	0.45
2:B:169:ILE:O	2:B:170:SER:C	2.59	0.45
2:B:179:ASN:HD22	2:B:179:ASN:N	2.14	0.45
2:B:307:ASN:O	2:B:308:LEU:C	2.58	0.45
2:B:321:MET:O	2:B:323:VAL:N	2.49	0.45
2:B:351:ILE:HD11	2:B:384:VAL:HG11	1.97	0.45
2:B:400:GLN:HA	2:B:400:GLN:HE21	1.81	0.45
2:B:483:GLN:OE1	2:B:483:GLN:N	2.49	0.45
1:C:467:TYR:OH	1:C:511:SER:CB	2.64	0.45
2:D:399:ILE:C	2:D:401:THR:H	2.23	0.45
2:D:415:LYS:HG2	2:D:416:ASP:N	2.30	0.45
1:E:25:GLU:O	1:E:26:MET:C	2.59	0.45
1:E:58:MET:HE1	4:U:15:ARG:CA	2.46	0.45
1:E:172:MET:SD	1:E:172:MET:C	2.99	0.45
1:E:272:ALA:O	1:E:275:ALA:HB3	2.16	0.45
2:F:305:ASN:ND2	2:F:572:SER:OG	2.49	0.45
2:F:307:ASN:O	2:F:308:LEU:C	2.58	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:46:ARG:O	1:G:50:VAL:HG23	2.16	0.45
1:G:70:CYS:O	1:G:73:LEU:HB2	2.16	0.45
1:G:467:TYR:OH	1:G:511:SER:CB	2.64	0.45
1:G:502:GLU:HG3	1:G:537:PHE:CD2	2.50	0.45
2:H:175:MET:O	2:H:176:VAL:C	2.57	0.45
2:H:225:CYS:O	2:H:227:GLY:N	2.49	0.45
2:H:311:GLN:CG	2:H:555:ILE:HD12	2.45	0.45
2:H:504:GLN:O	2:H:505:GLN:C	2.59	0.45
1:I:198:LEU:O	1:I:201:MET:HB2	2.17	0.45
1:I:284:VAL:O	1:I:285:GLY:C	2.59	0.45
1:I:415:LYS:O	1:I:416:ARG:C	2.58	0.45
1:I:430:GLY:O	1:I:433:VAL:N	2.46	0.45
1:I:526:ALA:O	1:I:529:ALA:N	2.49	0.45
2:J:239:SER:O	2:J:243:ARG:HG2	2.16	0.45
2:J:399:ILE:C	2:J:401:THR:H	2.23	0.45
2:J:466:LEU:O	2:J:467:GLU:C	2.56	0.45
2:J:483:GLN:OE1	2:J:483:GLN:N	2.49	0.45
2:J:570:LEU:CD1	3:R:75:ALA:H	2.28	0.45
1:K:121:LEU:O	1:K:122:ALA:C	2.58	0.45
1:K:185:GLU:HG3	1:K:186:LYS:N	2.30	0.45
1:K:377:ASN:C	1:K:377:ASN:HD22	2.22	0.45
1:K:430:GLY:O	1:K:431:SER:C	2.59	0.45
2:L:305:ASN:N	2:L:305:ASN:HD22	2.13	0.45
2:L:419:ARG:HB3	2:L:548:ILE:HD13	1.98	0.45
3:M:104:ARG:CA	3:M:107:PHE:CE1	2.94	0.45
3:N:29:GLU:O	3:N:30:VAL:C	2.58	0.45
3:N:106:ASN:O	3:N:109:ILE:CG1	2.65	0.45
3:N:162:GLU:CG	3:N:163:GLY:N	2.79	0.45
3:O:42:GLU:HG3	3:O:302:LYS:HB3	1.98	0.45
3:O:65:LEU:HD11	3:O:99:GLU:C	2.41	0.45
3:O:126:THR:CG2	3:O:131:LEU:HD13	2.40	0.45
3:P:109:ILE:HD13	3:P:139:GLY:HA3	1.98	0.45
3:P:160:ARG:C	3:P:161:SER:O	2.59	0.45
3:P:194:ILE:HD11	3:P:269:LEU:HD12	1.98	0.45
4:Q:65:LEU:HD12	4:Q:65:LEU:HA	1.75	0.45
4:T:88:VAL:O	4:T:89:GLU:C	2.59	0.45
4:U:147:SER:O	4:U:149:ARG:N	2.49	0.45
3:V:21:TYR:CE1	3:V:118:MET:HE3	2.49	0.45
3:V:57:PHE:N	3:V:57:PHE:CD1	2.84	0.45
3:V:103:ILE:C	3:V:105:ASP:N	2.74	0.45
3:V:126:THR:CG2	3:V:131:LEU:HD13	2.40	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:V:213:GLY:HA3	3:V:394:TYR:CE1	2.51	0.45
3:V:386:THR:CG2	3:V:389:GLY:H	2.21	0.45
4:W:7:LEU:HD21	4:W:67:PHE:CG	2.51	0.45
4:W:30:LYS:HB2	4:W:30:LYS:NZ	2.30	0.45
4:W:65:LEU:HD12	4:W:65:LEU:HA	1.75	0.45
4:X:32:VAL:O	4:X:33:ARG:C	2.59	0.45
1:A:159:LEU:O	1:A:160:CYS:C	2.55	0.45
1:A:172:MET:SD	1:A:172:MET:C	2.99	0.45
1:A:426:LEU:O	1:A:427:THR:C	2.58	0.45
2:B:15:ILE:O	2:B:16:PHE:C	2.58	0.45
2:B:18:LEU:N	2:B:18:LEU:CD2	2.78	0.45
2:B:115:VAL:HG12	2:B:116:ASP:N	2.31	0.45
2:B:139:LYS:HE2	2:B:175:MET:HG2	1.98	0.45
2:B:392:VAL:O	2:B:393:SER:C	2.59	0.45
1:C:11:ILE:C	1:C:13:THR:N	2.72	0.45
1:C:19:THR:O	1:C:22:GLU:N	2.50	0.45
1:C:56:MET:O	1:C:57:HIS:C	2.58	0.45
1:C:132:SER:O	1:C:133:GLU:C	2.58	0.45
1:C:172:MET:SD	1:C:172:MET:C	2.99	0.45
1:C:243:PRO:O	1:C:246:GLN:HB2	2.16	0.45
1:C:254:ARG:CB	1:C:295:THR:HG23	2.45	0.45
1:C:451:MET:SD	1:C:451:MET:N	2.85	0.45
1:C:504:GLU:O	1:C:505:VAL:C	2.58	0.45
2:D:7:PHE:HD2	4:T:99:CYS:HA	1.81	0.45
2:D:139:LYS:HE2	2:D:175:MET:HG2	1.98	0.45
2:D:392:VAL:O	2:D:393:SER:C	2.59	0.45
1:E:68:LEU:HG	1:E:69:GLU:N	2.14	0.45
1:E:172:MET:N	1:E:172:MET:CE	2.68	0.45
1:E:279:GLU:N	1:E:279:GLU:OE1	2.45	0.45
1:E:305:LEU:O	1:E:306:ARG:C	2.59	0.45
1:E:460:TYR:O	1:E:461:LYS:C	2.59	0.45
2:F:264:MET:HE2	2:F:564:ILE:HG21	1.98	0.45
2:F:308:LEU:HD21	2:F:575:HIS:CG	2.51	0.45
1:G:58:MET:HE1	4:Q:15:ARG:CA	2.46	0.45
1:G:247:VAL:O	1:G:250:LEU:N	2.49	0.45
1:G:526:ALA:O	1:G:529:ALA:N	2.49	0.45
2:H:38:ILE:O	2:H:42:THR:HG23	2.16	0.45
2:H:45:LYS:HG2	2:H:46:ASP:N	2.30	0.45
2:H:97:ASP:HA	2:H:98:PRO:HD3	1.51	0.45
2:H:155:MET:H	2:H:158:ASP:CB	2.29	0.45
2:H:173:ASN:O	2:H:174:PRO:C	2.59	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:307:ASN:ND2	2:H:344:ARG:NH1	2.62	0.45
2:H:392:VAL:O	2:H:393:SER:C	2.59	0.45
2:H:411:ILE:CD1	2:H:411:ILE:H	2.28	0.45
2:H:436:LEU:O	2:H:436:LEU:HD22	2.16	0.45
2:H:463:ASP:N	2:H:463:ASP:OD1	2.45	0.45
1:I:46:ARG:O	1:I:50:VAL:HG23	2.16	0.45
1:I:450:GLU:C	1:I:452:HIS:H	2.25	0.45
1:I:524:GLY:C	1:I:526:ALA:N	2.74	0.45
1:K:247:VAL:O	1:K:250:LEU:N	2.49	0.45
1:K:395:GLU:HB2	1:K:396:PHE:HD1	1.81	0.45
1:K:406:LEU:HD23	1:K:406:LEU:HA	1.81	0.45
1:K:526:ALA:O	1:K:529:ALA:N	2.49	0.45
2:L:59:GLN:HE21	2:L:59:GLN:HB3	1.59	0.45
2:L:139:LYS:HE2	2:L:175:MET:HG2	1.98	0.45
2:L:321:MET:O	2:L:323:VAL:N	2.49	0.45
2:L:499:THR:O	2:L:500:GLN:O	2.34	0.45
2:L:523:GLY:O	2:L:524:TYR:C	2.59	0.45
3:M:160:ARG:C	3:M:161:SER:O	2.59	0.45
3:N:65:LEU:HD11	3:N:99:GLU:C	2.41	0.45
3:N:262:PHE:CD1	3:N:262:PHE:C	2.94	0.45
3:P:106:ASN:O	3:P:109:ILE:CG1	2.65	0.45
4:Q:59:TYR:CD2	4:Q:59:TYR:N	2.83	0.45
4:S:87:TYR:CE2	4:S:91:LEU:HD11	2.50	0.45
4:T:4:PHE:C	4:T:4:PHE:HD1	2.24	0.45
4:T:61:ARG:HG2	4:T:61:ARG:NH1	2.31	0.45
4:U:7:LEU:HD21	4:U:67:PHE:CG	2.51	0.45
3:V:255:PHE:N	3:V:255:PHE:HD2	2.14	0.45
3:V:262:PHE:CD1	3:V:262:PHE:C	2.94	0.45
3:V:294:MET:HE2	3:V:357:ARG:NH1	2.31	0.45
1:A:173:GLU:C	1:A:175:PHE:H	2.24	0.45
1:A:198:LEU:O	1:A:201:MET:HB2	2.17	0.45
1:A:272:ALA:O	1:A:275:ALA:HB3	2.16	0.45
1:A:415:LYS:O	1:A:416:ARG:C	2.58	0.45
1:A:509:LEU:HD12	1:A:530:ILE:HG12	1.97	0.45
1:A:519:THR:CG2	1:A:520:SER:N	2.79	0.45
2:B:175:MET:O	2:B:178:ALA:N	2.49	0.45
1:C:27:ILE:HD12	1:C:61:TYR:CZ	2.50	0.45
1:C:152:TYR:HA	1:C:155:LYS:CE	2.47	0.45
1:C:247:VAL:O	1:C:250:LEU:N	2.49	0.45
1:C:466:ASP:O	1:C:467:TYR:CD1	2.53	0.45
1:C:488:VAL:O	1:C:489:SER:C	2.60	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:502:GLU:O	1:C:506:LEU:HG	2.16	0.45
2:D:169:ILE:O	2:D:170:SER:C	2.59	0.45
2:D:179:ASN:N	2:D:179:ASN:HD22	2.14	0.45
2:D:305:ASN:ND2	2:D:572:SER:OG	2.49	0.45
2:D:551:GLU:C	2:D:553:ASP:N	2.72	0.45
1:E:152:TYR:HA	1:E:155:LYS:CE	2.47	0.45
1:E:453:ALA:C	1:E:455:THR:N	2.72	0.45
1:E:535:THR:O	1:E:535:THR:HG22	2.15	0.45
2:F:179:ASN:HD22	2:F:179:ASN:H	1.64	0.45
2:F:179:ASN:HD22	2:F:179:ASN:N	2.14	0.45
2:F:304:ARG:HG2	2:F:573:VAL:CA	2.47	0.45
2:F:430:ALA:C	2:F:432:LEU:N	2.73	0.45
1:G:25:GLU:O	1:G:26:MET:C	2.59	0.45
1:G:56:MET:O	1:G:57:HIS:C	2.58	0.45
1:G:450:GLU:C	1:G:452:HIS:H	2.25	0.45
2:H:483:GLN:OE1	2:H:483:GLN:N	2.49	0.45
2:H:570:LEU:CD1	3:P:74:ASN:HA	2.44	0.45
1:I:48:ARG:O	1:I:49:ASN:C	2.58	0.45
1:I:172:MET:SD	1:I:172:MET:C	2.99	0.45
1:I:247:VAL:O	1:I:250:LEU:N	2.49	0.45
1:I:502:GLU:OE1	1:I:537:PHE:HB3	2.17	0.45
2:J:6:TYR:O	2:J:8:THR:OG1	2.35	0.45
2:J:305:ASN:N	2:J:305:ASN:HD22	2.13	0.45
2:J:307:ASN:O	2:J:308:LEU:C	2.58	0.45
2:J:415:LYS:O	2:J:416:ASP:C	2.60	0.45
2:J:436:LEU:O	2:J:436:LEU:HD22	2.16	0.45
1:K:351:VAL:HG23	1:K:352:ASP:N	2.32	0.45
1:K:524:GLY:C	1:K:526:ALA:N	2.73	0.45
1:K:555:ILE:H	1:K:555:ILE:HG13	1.51	0.45
2:L:115:VAL:HG12	2:L:116:ASP:N	2.31	0.45
2:L:122:LEU:HG	2:L:123:CYS:N	2.32	0.45
2:L:181:VAL:O	2:L:182:ALA:C	2.59	0.45
2:L:374:VAL:C	2:L:376:ALA:N	2.71	0.45
2:L:415:LYS:HG2	2:L:416:ASP:N	2.30	0.45
3:M:57:PHE:N	3:M:57:PHE:CD1	2.84	0.45
3:N:84:LEU:O	3:N:87:VAL:N	2.49	0.45
3:N:109:ILE:HD13	3:N:139:GLY:HA3	1.98	0.45
3:N:196:GLY:HA3	3:N:267:TYR:CZ	2.52	0.45
3:P:213:GLY:HA3	3:P:394:TYR:CE1	2.51	0.45
4:Q:56:LYS:O	4:Q:71:ILE:N	2.43	0.45
4:Q:61:ARG:HG2	4:Q:61:ARG:NH1	2.31	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:Q:87:TYR:CE2	4:Q:91:LEU:HD11	2.50	0.45
3:R:26:ASP:C	3:R:26:ASP:OD1	2.60	0.45
3:R:196:GLY:HA3	3:R:267:TYR:CZ	2.52	0.45
3:R:202:VAL:HG12	3:R:203:PHE:N	2.30	0.45
4:S:80:THR:O	4:S:83:LEU:N	2.47	0.45
4:T:32:VAL:O	4:T:33:ARG:C	2.59	0.45
4:U:100:GLU:O	4:U:103:ILE:N	2.50	0.45
4:U:134:ALA:O	4:U:135:ILE:C	2.59	0.45
4:W:147:SER:O	4:W:149:ARG:N	2.49	0.45
1:A:11:ILE:CA	1:A:14:ILE:HD13	2.40	0.45
1:A:70:CYS:O	1:A:73:LEU:HB2	2.16	0.45
2:B:102:ILE:HG22	2:B:103:ARG:N	2.32	0.45
2:B:376:ALA:C	2:B:378:GLY:N	2.70	0.45
2:B:420:LYS:C	2:B:421:TYR:CD2	2.85	0.45
2:B:509:LEU:C	2:B:511:THR:H	2.25	0.45
1:C:526:ALA:O	1:C:529:ALA:N	2.50	0.45
2:D:136:TYR:CD1	3:N:134:PHE:HE2	2.33	0.45
1:E:430:GLY:O	1:E:431:SER:C	2.59	0.45
2:F:34:VAL:O	2:F:37:VAL:HB	2.16	0.45
2:F:79:SER:O	2:F:81:PRO:HD3	2.16	0.45
2:F:411:ILE:HD12	2:F:411:ILE:N	2.30	0.45
2:F:523:GLY:O	2:F:524:TYR:C	2.59	0.45
1:G:132:SER:O	1:G:133:GLU:C	2.58	0.45
1:G:426:LEU:O	1:G:427:THR:C	2.58	0.45
1:G:479:CYS:O	1:G:483:TYR:N	2.31	0.45
1:G:522:THR:C	1:G:524:GLY:N	2.70	0.45
2:H:124:GLU:HB2	2:H:125:PRO:CD	2.36	0.45
2:H:509:LEU:C	2:H:511:THR:H	2.25	0.45
1:I:403:GLY:O	1:I:404:ILE:C	2.59	0.45
1:I:411:TYR:CD1	1:I:411:TYR:N	2.80	0.45
2:J:27:LYS:HA	2:J:30:LYS:HD2	1.97	0.45
2:J:34:VAL:O	2:J:37:VAL:HB	2.16	0.45
2:J:97:ASP:HA	2:J:98:PRO:HD3	1.52	0.45
2:J:225:CYS:O	2:J:227:GLY:N	2.49	0.45
2:J:476:GLU:O	2:J:477:SER:C	2.59	0.45
2:J:509:LEU:C	2:J:511:THR:H	2.25	0.45
2:J:523:GLY:O	2:J:524:TYR:C	2.59	0.45
2:J:569:THR:HG23	3:R:74:ASN:CG	2.35	0.45
1:K:172:MET:HG2	1:K:201:MET:HE1	1.99	0.45
1:K:425:VAL:HG13	1:K:426:LEU:HD22	1.96	0.45
1:K:453:ALA:O	1:K:454:TYR:C	2.58	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:488:VAL:O	1:K:489:SER:C	2.60	0.45
2:L:27:LYS:HA	2:L:30:LYS:HD2	1.97	0.45
2:L:91:PHE:O	2:L:92:VAL:C	2.58	0.45
2:L:122:LEU:C	2:L:125:PRO:HD2	2.42	0.45
2:L:260:VAL:O	2:L:261:LYS:C	2.59	0.45
2:L:339:LEU:C	2:L:341:ILE:N	2.74	0.45
2:L:391:CYS:O	2:L:394:THR:N	2.50	0.45
2:L:436:LEU:HD13	2:L:436:LEU:O	2.16	0.45
2:L:509:LEU:C	2:L:511:THR:H	2.25	0.45
3:M:42:GLU:HG3	3:M:302:LYS:HB3	1.98	0.45
3:M:162:GLU:CG	3:M:163:GLY:N	2.79	0.45
3:M:384:TYR:N	3:M:384:TYR:HD2	2.15	0.45
3:M:384:TYR:CA	3:M:411:TYR:HB2	2.44	0.45
3:N:213:GLY:HA3	3:N:394:TYR:CE1	2.51	0.45
3:N:285:LYS:O	3:N:286:HIS:CB	2.63	0.45
3:P:37:LEU:O	3:P:38:MET:C	2.59	0.45
3:P:104:ARG:O	3:P:107:PHE:CE1	2.70	0.45
3:P:262:PHE:CD1	3:P:262:PHE:C	2.94	0.45
4:Q:30:LYS:HB2	4:Q:30:LYS:NZ	2.30	0.45
3:R:213:GLY:HA3	3:R:394:TYR:CE1	2.51	0.45
4:S:61:ARG:HG2	4:S:61:ARG:NH1	2.31	0.45
4:T:132:LEU:C	4:T:135:ILE:HG22	2.41	0.45
3:V:26:ASP:C	3:V:26:ASP:OD1	2.60	0.45
3:V:106:ASN:O	3:V:109:ILE:CG1	2.65	0.45
3:V:109:ILE:HD13	3:V:139:GLY:HA3	1.99	0.45
4:W:4:PHE:C	4:W:4:PHE:HD1	2.24	0.45
4:W:32:VAL:O	4:W:33:ARG:C	2.59	0.45
1:A:79:PHE:CE2	1:A:83:ARG:HD2	2.52	0.45
1:A:147:LYS:HA	1:A:147:LYS:CE	2.39	0.45
1:A:502:GLU:OE1	1:A:537:PHE:HB3	2.17	0.45
2:B:179:ASN:HD22	2:B:179:ASN:H	1.64	0.45
1:C:25:GLU:O	1:C:26:MET:C	2.59	0.45
1:C:46:ARG:O	1:C:50:VAL:HG23	2.16	0.45
1:C:135:CYS:O	1:C:136:ARG:C	2.60	0.45
1:C:164:VAL:O	1:C:165:ILE:C	2.58	0.45
1:C:173:GLU:C	1:C:175:PHE:H	2.24	0.45
1:C:272:ALA:O	1:C:275:ALA:HB3	2.16	0.45
1:C:310:ILE:O	1:C:311:ASN:C	2.59	0.45
1:C:482:GLU:OE1	1:C:532:LYS:HE2	2.16	0.45
1:C:519:THR:CG2	1:C:520:SER:N	2.79	0.45
2:D:15:ILE:O	2:D:16:PHE:C	2.58	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:102:ILE:O	2:D:104:ALA:N	2.50	0.45
2:D:102:ILE:HG22	2:D:103:ARG:N	2.32	0.45
2:D:115:VAL:HG12	2:D:116:ASP:N	2.31	0.45
2:D:208:LEU:HD11	2:D:243:ARG:CD	2.41	0.45
2:D:285:ALA:CB	2:D:286:PRO:CD	2.87	0.45
2:D:307:ASN:O	2:D:308:LEU:C	2.58	0.45
2:D:313:ARG:HB2	2:D:316:ILE:HD11	1.99	0.45
2:D:476:GLU:O	2:D:477:SER:C	2.59	0.45
1:E:86:TYR:O	1:E:87:LEU:C	2.59	0.45
1:E:155:LYS:O	1:E:156:LYS:C	2.60	0.45
1:E:377:ASN:C	1:E:377:ASN:HD22	2.22	0.45
1:E:426:LEU:O	1:E:428:THR:N	2.50	0.45
1:E:519:THR:CG2	1:E:520:SER:N	2.79	0.45
2:F:102:ILE:O	2:F:104:ALA:N	2.50	0.45
2:F:313:ARG:HB2	2:F:316:ILE:HD11	1.99	0.45
2:F:374:VAL:C	2:F:376:ALA:N	2.71	0.45
2:F:545:LYS:HA	2:F:546:PRO:HD3	1.44	0.45
1:G:183:LEU:HA	1:G:183:LEU:HD23	1.63	0.45
1:G:504:GLU:O	1:G:505:VAL:C	2.58	0.45
2:H:260:VAL:O	2:H:261:LYS:C	2.59	0.45
2:H:327:LYS:HB2	2:H:330:ASP:OD1	2.15	0.45
2:H:493:LEU:C	2:H:495:LYS:N	2.62	0.45
2:H:577:PRO:C	2:H:579:ASN:N	2.74	0.45
1:I:121:LEU:O	1:I:122:ALA:C	2.58	0.45
1:I:132:SER:O	1:I:133:GLU:C	2.58	0.45
1:I:155:LYS:O	1:I:156:LYS:C	2.60	0.45
2:J:102:ILE:HG22	2:J:103:ARG:N	2.31	0.45
2:J:577:PRO:C	2:J:579:ASN:N	2.74	0.45
1:K:5:ILE:O	1:K:52:LYS:NZ	2.46	0.45
1:K:272:ALA:O	1:K:275:ALA:HB3	2.16	0.45
1:K:494:GLU:OE1	1:K:494:GLU:HA	2.16	0.45
1:K:502:GLU:OE1	1:K:537:PHE:HB3	2.17	0.45
2:L:6:TYR:O	2:L:8:THR:OG1	2.35	0.45
2:L:74:MET:O	2:L:75:ASN:C	2.59	0.45
2:L:79:SER:O	2:L:81:PRO:HD3	2.16	0.45
2:L:102:ILE:O	2:L:104:ALA:N	2.50	0.45
2:L:136:TYR:CD1	3:V:134:PHE:HE2	2.33	0.45
2:L:179:ASN:H	2:L:179:ASN:HD22	1.64	0.45
3:M:194:ILE:HD11	3:M:269:LEU:HD12	1.98	0.45
3:M:294:MET:HE2	3:M:357:ARG:HH11	1.82	0.45
3:N:34:MET:O	3:N:35:PRO:C	2.59	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:255:PHE:N	3:N:255:PHE:HD2	2.14	0.45
3:P:8:VAL:C	3:P:9:LEU:HD23	2.42	0.45
4:Q:25:ASP:O	4:Q:26:LYS:C	2.59	0.45
4:Q:84:ILE:C	4:Q:86:ARG:N	2.72	0.45
3:R:84:LEU:O	3:R:85:TYR:C	2.56	0.45
3:R:103:ILE:C	3:R:105:ASP:N	2.74	0.45
3:R:104:ARG:O	3:R:107:PHE:CE1	2.70	0.45
3:R:323:PRO:HG2	3:R:334:TRP:CE3	2.52	0.45
4:S:100:GLU:O	4:S:103:ILE:N	2.50	0.45
4:T:7:LEU:CD2	4:T:66:TYR:O	2.64	0.45
4:U:4:PHE:C	4:U:4:PHE:HD1	2.24	0.45
4:W:100:GLU:O	4:W:103:ILE:N	2.50	0.45
4:X:4:PHE:C	4:X:4:PHE:HD1	2.24	0.45
4:X:61:ARG:HG2	4:X:61:ARG:NH1	2.31	0.45
4:X:100:GLU:O	4:X:103:ILE:N	2.50	0.45
1:A:86:TYR:O	1:A:87:LEU:C	2.59	0.45
1:A:264:SER:O	1:A:266:ALA:N	2.50	0.45
2:B:9:THR:HG22	2:B:11:LYS:N	2.29	0.45
2:B:220:ILE:HD12	2:B:220:ILE:N	2.32	0.45
2:B:305:ASN:N	2:B:305:ASN:HD22	2.13	0.45
2:B:392:VAL:O	2:B:395:LEU:N	2.50	0.45
2:B:419:ARG:HB3	2:B:548:ILE:HD13	1.98	0.45
1:C:79:PHE:CE2	1:C:83:ARG:HD2	2.52	0.45
1:C:187:ASN:ND2	1:C:189:GLY:H	2.15	0.45
1:C:198:LEU:O	1:C:201:MET:HB2	2.17	0.45
1:C:286:ASN:O	1:C:287:ALA:C	2.59	0.45
1:C:430:GLY:O	1:C:431:SER:C	2.59	0.45
1:C:506:LEU:N	1:C:506:LEU:HD23	2.32	0.45
1:C:524:GLY:C	1:C:526:ALA:N	2.74	0.45
2:D:373:ALA:O	2:D:376:ALA:CB	2.63	0.45
2:D:483:GLN:OE1	2:D:483:GLN:N	2.49	0.45
1:E:132:SER:O	1:E:133:GLU:C	2.58	0.45
1:E:198:LEU:O	1:E:201:MET:HB2	2.17	0.45
1:E:476:ALA:C	1:E:478:TRP:N	2.72	0.45
2:F:33:ALA:O	2:F:34:VAL:C	2.56	0.45
2:F:115:VAL:HG12	2:F:116:ASP:N	2.31	0.45
2:F:220:ILE:HD12	2:F:220:ILE:N	2.32	0.45
2:F:371:ARG:O	2:F:372:LYS:C	2.60	0.45
2:F:504:GLN:O	2:F:505:GLN:C	2.59	0.45
2:F:567:ILE:HA	2:F:572:SER:OG	2.17	0.45
1:G:35:ARG:CD	1:G:65:PHE:HE2	2.21	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:44:THR:O	1:G:45:TYR:CB	2.65	0.45
1:G:154:ARG:O	1:G:155:LYS:C	2.57	0.45
1:G:173:GLU:C	1:G:175:PHE:H	2.24	0.45
1:G:287:ALA:O	1:G:288:ILE:C	2.58	0.45
1:G:310:ILE:O	1:G:311:ASN:C	2.59	0.45
1:G:382:MET:SD	1:G:404:ILE:HG23	2.57	0.45
1:G:415:LYS:O	1:G:416:ARG:C	2.58	0.45
1:G:451:MET:HE2	1:G:451:MET:N	2.30	0.45
1:G:453:ALA:O	1:G:454:TYR:C	2.58	0.45
2:H:6:TYR:O	2:H:8:THR:OG1	2.35	0.45
2:H:102:ILE:O	2:H:104:ALA:N	2.50	0.45
2:H:289:VAL:C	2:H:291:LEU:N	2.75	0.45
2:H:304:ARG:HG2	2:H:573:VAL:CA	2.47	0.45
2:H:321:MET:O	2:H:323:VAL:N	2.49	0.45
1:I:79:PHE:CE2	1:I:83:ARG:HD2	2.52	0.45
1:I:482:GLU:OE1	1:I:532:LYS:HE2	2.16	0.45
2:J:169:ILE:O	2:J:170:SER:C	2.59	0.45
2:J:190:SER:C	2:J:192:PRO:HD2	2.34	0.45
2:J:220:ILE:HD12	2:J:220:ILE:N	2.31	0.45
2:J:289:VAL:C	2:J:291:LEU:H	2.25	0.45
2:J:305:ASN:ND2	2:J:572:SER:OG	2.49	0.45
1:K:27:ILE:HD12	1:K:61:TYR:CZ	2.50	0.45
1:K:237:VAL:HG22	4:W:86:ARG:HH12	1.80	0.45
1:K:286:ASN:O	1:K:287:ALA:C	2.59	0.45
1:K:576:MET:HE3	2:L:532:THR:HG21	1.99	0.45
3:M:109:ILE:HD13	3:M:139:GLY:HA3	1.98	0.45
3:M:113:LEU:O	3:M:114:LEU:C	2.60	0.45
3:M:213:GLY:HA3	3:M:394:TYR:CE1	2.51	0.45
3:N:202:VAL:HG12	3:N:203:PHE:N	2.30	0.45
3:N:294:MET:HE2	3:N:357:ARG:HH11	1.82	0.45
3:O:196:GLY:HA3	3:O:267:TYR:CZ	2.52	0.45
4:Q:62:TYR:O	4:Q:63:ALA:C	2.57	0.45
4:Q:134:ALA:O	4:Q:135:ILE:C	2.59	0.45
3:R:106:ASN:O	3:R:109:ILE:CG1	2.65	0.45
4:S:4:PHE:C	4:S:4:PHE:HD1	2.24	0.45
4:S:134:ALA:O	4:S:135:ILE:C	2.59	0.45
4:T:7:LEU:HD21	4:T:67:PHE:CG	2.51	0.45
4:T:90:LEU:H	4:T:90:LEU:HD22	1.79	0.45
3:V:37:LEU:O	3:V:38:MET:C	2.59	0.45
4:W:7:LEU:CD2	4:W:66:TYR:O	2.64	0.45
4:W:88:VAL:O	4:W:89:GLU:C	2.59	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:X:90:LEU:CD2	4:X:90:LEU:N	2.79	0.45
1:A:5:ILE:HD12	1:A:30:GLU:OE1	2.17	0.45
1:A:48:ARG:O	1:A:49:ASN:C	2.58	0.45
1:A:330:THR:HG22	1:A:331:SER:N	2.31	0.45
1:A:482:GLU:OE1	1:A:532:LYS:HE2	2.16	0.45
2:B:313:ARG:HB2	2:B:316:ILE:HD11	1.99	0.45
2:B:415:LYS:O	2:B:416:ASP:C	2.60	0.45
1:C:70:CYS:O	1:C:73:LEU:HB2	2.16	0.45
1:C:79:PHE:O	1:C:82:LYS:N	2.50	0.45
1:C:450:GLU:C	1:C:452:HIS:H	2.25	0.45
1:C:494:GLU:OE1	1:C:494:GLU:HA	2.16	0.45
2:D:45:LYS:HG2	2:D:46:ASP:N	2.30	0.45
2:D:219:GLN:OE1	2:D:255:VAL:HG11	2.17	0.45
2:D:392:VAL:O	2:D:395:LEU:N	2.50	0.45
1:E:56:MET:O	1:E:57:HIS:C	2.58	0.45
1:E:478:TRP:CZ3	2:F:521:ASP:OD1	2.70	0.45
2:F:399:ILE:C	2:F:401:THR:H	2.23	0.45
2:F:415:LYS:O	2:F:416:ASP:C	2.60	0.45
1:G:187:ASN:ND2	1:G:189:GLY:H	2.15	0.45
1:G:264:SER:O	1:G:266:ALA:N	2.50	0.45
1:G:344:GLN:C	1:G:346:HIS:N	2.74	0.45
2:H:54:VAL:O	2:H:57:CYS:HB3	2.17	0.45
2:H:115:VAL:HG12	2:H:116:ASP:N	2.31	0.45
2:H:179:ASN:HD22	2:H:179:ASN:H	1.64	0.45
2:H:486:THR:OG1	2:H:522:ARG:NH2	2.50	0.45
1:I:35:ARG:CD	1:I:65:PHE:HE2	2.21	0.45
1:I:187:ASN:ND2	1:I:189:GLY:H	2.15	0.45
1:I:406:LEU:HD23	1:I:406:LEU:HA	1.81	0.45
1:I:557:VAL:HG22	2:J:419:ARG:NH1	2.32	0.45
1:I:565:GLU:OE2	2:J:522:ARG:NH2	2.30	0.45
2:J:115:VAL:HG12	2:J:116:ASP:N	2.31	0.45
2:J:158:ASP:C	2:J:160:GLY:H	2.25	0.45
2:J:173:ASN:O	2:J:174:PRO:C	2.59	0.45
2:J:376:ALA:C	2:J:378:GLY:N	2.70	0.45
2:J:483:GLN:O	2:J:487:ALA:N	2.45	0.45
1:K:6:ARG:CZ	3:P:336:PRO:HB2	2.47	0.45
1:K:19:THR:O	1:K:22:GLU:N	2.50	0.45
1:K:198:LEU:O	1:K:201:MET:HB2	2.16	0.45
1:K:264:SER:O	1:K:266:ALA:N	2.50	0.45
1:K:382:MET:SD	1:K:404:ILE:HG23	2.57	0.45
1:K:482:GLU:OE1	1:K:532:LYS:HE2	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:519:THR:CG2	1:K:520:SER:N	2.79	0.45
2:L:219:GLN:OE1	2:L:255:VAL:HG11	2.17	0.45
2:L:420:LYS:C	2:L:421:TYR:CD2	2.84	0.45
3:M:106:ASN:O	3:M:109:ILE:CG1	2.65	0.45
3:O:29:GLU:O	3:O:30:VAL:C	2.58	0.45
3:O:34:MET:O	3:O:35:PRO:C	2.59	0.45
3:O:109:ILE:HD13	3:O:139:GLY:HA3	1.98	0.45
3:O:113:LEU:O	3:O:114:LEU:C	2.60	0.45
3:O:177:GLU:CD	3:O:388:SER:HB3	2.42	0.45
3:O:323:PRO:HG2	3:O:334:TRP:CE3	2.52	0.45
3:P:16:LEU:C	3:P:16:LEU:HD13	2.42	0.45
3:P:65:LEU:HD11	3:P:99:GLU:C	2.41	0.45
3:P:103:ILE:C	3:P:105:ASP:N	2.74	0.45
3:P:203:PHE:N	3:P:203:PHE:CD1	2.83	0.45
3:P:204:LEU:HD23	3:P:204:LEU:HA	1.73	0.45
4:Q:7:LEU:HD23	4:Q:7:LEU:HA	1.55	0.45
4:Q:8:PHE:HE1	4:Q:36:MET:HA	1.80	0.45
4:Q:53:ARG:O	4:Q:54:ASP:CB	2.63	0.45
4:Q:100:GLU:O	4:Q:103:ILE:N	2.50	0.45
3:R:65:LEU:HD11	3:R:99:GLU:C	2.41	0.45
4:T:62:TYR:O	4:T:63:ALA:C	2.57	0.45
4:U:50:LEU:HD22	4:U:52:TRP:HB2	1.99	0.45
3:V:321:ASP:OD1	3:V:322:SER:N	2.38	0.45
1:A:152:TYR:HA	1:A:155:LYS:CE	2.47	0.45
1:A:187:ASN:ND2	1:A:189:GLY:H	2.15	0.45
1:A:247:VAL:O	1:A:250:LEU:N	2.49	0.45
1:A:359:VAL:O	1:A:360:SER:C	2.60	0.45
2:B:436:LEU:HD13	2:B:436:LEU:O	2.16	0.45
2:B:478:THR:CA	2:B:481:GLN:HE21	2.18	0.45
2:B:486:THR:OG1	2:B:522:ARG:NH2	2.50	0.45
2:B:577:PRO:C	2:B:579:ASN:N	2.74	0.45
1:C:147:LYS:HA	1:C:147:LYS:CE	2.39	0.45
1:C:154:ARG:O	1:C:155:LYS:C	2.57	0.45
2:D:260:VAL:O	2:D:261:LYS:C	2.59	0.45
2:D:289:VAL:C	2:D:291:LEU:H	2.25	0.45
2:D:321:MET:O	2:D:323:VAL:N	2.49	0.45
2:D:436:LEU:C	2:D:436:LEU:CD1	2.83	0.45
1:E:451:MET:HE2	1:E:451:MET:N	2.30	0.45
1:E:526:ALA:O	1:E:529:ALA:N	2.49	0.45
2:F:102:ILE:HG22	2:F:103:ARG:N	2.32	0.45
2:F:122:LEU:O	2:F:123:CYS:C	2.58	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:154:GLN:CB	2:F:158:ASP:OD2	2.53	0.45
2:F:373:ALA:O	2:F:376:ALA:CB	2.63	0.45
2:F:509:LEU:C	2:F:511:THR:H	2.25	0.45
1:G:118:VAL:O	1:G:119:GLN:C	2.58	0.45
1:G:172:MET:N	1:G:172:MET:CE	2.68	0.45
1:G:416:ARG:HD3	1:G:454:TYR:HE1	1.82	0.45
1:G:426:LEU:O	1:G:428:THR:N	2.50	0.45
1:G:478:TRP:CZ3	2:H:521:ASP:OD1	2.70	0.45
1:G:502:GLU:HG3	1:G:537:PHE:CE2	2.52	0.45
2:H:27:LYS:HA	2:H:30:LYS:HD2	1.97	0.45
2:H:308:LEU:HD21	2:H:575:HIS:CG	2.51	0.45
2:H:371:ARG:O	2:H:372:LYS:C	2.60	0.45
1:I:248:ARG:O	1:I:249:ILE:C	2.58	0.45
1:I:257:GLY:O	1:I:299:ILE:HG23	2.16	0.45
1:I:264:SER:O	1:I:266:ALA:N	2.50	0.45
1:I:359:VAL:O	1:I:360:SER:C	2.60	0.45
1:I:426:LEU:O	1:I:428:THR:N	2.50	0.45
1:I:430:GLY:O	1:I:431:SER:C	2.59	0.45
2:J:335:LYS:O	2:J:338:LYS:HB2	2.17	0.45
2:J:360:GLU:O	2:J:361:TYR:C	2.60	0.45
2:J:426:GLU:C	2:J:428:VAL:N	2.74	0.45
2:J:567:ILE:HA	2:J:572:SER:OG	2.17	0.45
1:K:164:VAL:O	1:K:165:ILE:C	2.58	0.45
1:K:561:GLN:HG3	1:K:565:GLU:OE2	2.17	0.45
2:L:56:ASN:N	2:L:56:ASN:ND2	2.65	0.45
2:L:179:ASN:HD22	2:L:179:ASN:N	2.14	0.45
3:N:129:LYS:C	3:N:131:LEU:N	2.71	0.45
3:O:8:VAL:C	3:O:9:LEU:HD23	2.42	0.45
3:O:16:LEU:HD13	3:O:16:LEU:C	2.42	0.45
3:O:57:PHE:N	3:O:57:PHE:CD1	2.84	0.45
3:O:240:GLN:O	3:O:242:VAL:N	2.48	0.45
3:P:28:SER:O	3:P:29:GLU:C	2.60	0.45
3:P:63:ASN:O	3:P:64:ASN:CB	2.65	0.45
3:R:16:LEU:HD13	3:R:16:LEU:C	2.42	0.45
3:R:180:ASN:HA	3:R:417:ASP:HB2	1.99	0.45
3:R:262:PHE:CD1	3:R:262:PHE:C	2.94	0.45
4:T:30:LYS:HB2	4:T:30:LYS:NZ	2.30	0.45
4:T:100:GLU:O	4:T:103:ILE:N	2.50	0.45
4:T:147:SER:O	4:T:149:ARG:N	2.49	0.45
4:U:25:ASP:O	4:U:26:LYS:C	2.59	0.45
3:V:8:VAL:C	3:V:9:LEU:HD23	2.42	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:261:ASP:O	1:A:262:ASP:C	2.60	0.45
1:A:286:ASN:O	1:A:287:ALA:C	2.59	0.45
1:A:426:LEU:O	1:A:428:THR:N	2.50	0.45
1:A:478:TRP:CZ3	2:B:521:ASP:OD1	2.70	0.45
1:A:526:ALA:O	1:A:529:ALA:N	2.49	0.45
2:B:6:TYR:O	2:B:8:THR:OG1	2.35	0.45
2:B:219:GLN:OE1	2:B:255:VAL:HG11	2.17	0.45
2:B:260:VAL:O	2:B:261:LYS:C	2.59	0.45
2:B:264:MET:HE2	2:B:564:ILE:HG21	1.98	0.45
1:C:155:LYS:CG	1:C:156:LYS:N	2.80	0.45
1:C:502:GLU:HG3	1:C:537:PHE:CE2	2.52	0.45
2:D:56:ASN:N	2:D:56:ASN:ND2	2.65	0.45
2:D:307:ASN:OD1	2:D:344:ARG:NH1	2.50	0.45
2:D:308:LEU:HD21	2:D:575:HIS:CG	2.51	0.45
2:D:415:LYS:O	2:D:416:ASP:C	2.60	0.45
2:D:486:THR:OG1	2:D:522:ARG:NH2	2.50	0.45
2:D:509:LEU:C	2:D:511:THR:H	2.25	0.45
1:E:5:ILE:HD12	1:E:30:GLU:OE1	2.17	0.45
1:E:247:VAL:O	1:E:250:LEU:N	2.49	0.45
1:E:403:GLY:O	1:E:404:ILE:C	2.59	0.45
1:E:561:GLN:HG3	1:E:565:GLU:OE2	2.17	0.45
2:F:74:MET:O	2:F:75:ASN:C	2.59	0.45
2:F:122:LEU:HG	2:F:123:CYS:N	2.32	0.45
2:F:392:VAL:O	2:F:393:SER:C	2.59	0.45
2:F:419:ARG:HB3	2:F:548:ILE:HD13	1.98	0.45
1:G:5:ILE:O	1:G:52:LYS:NZ	2.46	0.45
1:G:73:LEU:C	1:G:75:ALA:N	2.71	0.45
1:G:187:ASN:O	1:G:188:HIS:C	2.58	0.45
1:G:239:GLY:C	1:G:240:ILE:HG13	2.32	0.45
1:G:284:VAL:O	1:G:285:GLY:C	2.59	0.45
2:H:102:ILE:HG22	2:H:103:ARG:N	2.32	0.45
2:H:430:ALA:C	2:H:432:LEU:N	2.73	0.45
1:I:56:MET:O	1:I:57:HIS:C	2.58	0.45
1:I:64:HIS:O	1:I:65:PHE:C	2.59	0.45
1:I:173:GLU:C	1:I:175:PHE:H	2.24	0.45
1:I:261:ASP:O	1:I:262:ASP:C	2.60	0.45
1:I:451:MET:HE2	1:I:451:MET:N	2.30	0.45
2:J:179:ASN:HD22	2:J:179:ASN:H	1.64	0.45
1:K:79:PHE:CE2	1:K:83:ARG:HD2	2.52	0.45
1:K:187:ASN:ND2	1:K:189:GLY:H	2.15	0.45
2:L:333:TYR:O	2:L:334:VAL:C	2.60	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:476:GLU:O	2:L:477:SER:C	2.59	0.45
3:M:34:MET:O	3:M:35:PRO:C	2.59	0.45
3:M:87:VAL:O	3:M:88:VAL:C	2.60	0.45
3:M:91:PHE:O	3:M:92:SER:C	2.60	0.45
3:N:180:ASN:HA	3:N:417:ASP:HB2	1.99	0.45
3:N:294:MET:HE2	3:N:357:ARG:NH1	2.31	0.45
3:P:180:ASN:HA	3:P:417:ASP:HB2	1.99	0.45
3:P:343:TRP:CZ2	3:P:356:MET:HB2	2.51	0.45
3:R:8:VAL:C	3:R:9:LEU:HD23	2.42	0.45
4:T:71:ILE:CG2	4:T:72:GLU:H	2.26	0.45
4:T:114:LEU:O	4:T:117:PHE:N	2.44	0.45
4:U:62:TYR:O	4:U:63:ALA:C	2.57	0.45
4:U:90:LEU:CD2	4:U:90:LEU:N	2.79	0.45
3:V:63:ASN:O	3:V:64:ASN:CB	2.65	0.45
3:V:113:LEU:O	3:V:114:LEU:C	2.60	0.45
1:A:74:ILE:CG2	1:A:86:TYR:HE1	2.22	0.45
2:B:122:LEU:HG	2:B:123:CYS:N	2.32	0.45
2:B:289:VAL:C	2:B:291:LEU:H	2.25	0.45
2:B:305:ASN:ND2	2:B:572:SER:OG	2.49	0.45
2:B:307:ASN:OD1	2:B:344:ARG:NH1	2.50	0.45
2:B:551:GLU:C	2:B:553:ASP:N	2.72	0.45
1:C:64:HIS:O	1:C:65:PHE:C	2.59	0.45
1:C:161:ALA:O	1:C:162:VAL:C	2.60	0.45
1:C:264:SER:O	1:C:266:ALA:N	2.50	0.45
1:C:284:VAL:O	1:C:285:GLY:C	2.59	0.45
2:D:493:LEU:C	2:D:495:LYS:N	2.62	0.45
1:E:11:ILE:CA	1:E:14:ILE:HD13	2.40	0.45
1:E:64:HIS:O	1:E:65:PHE:C	2.59	0.45
1:E:172:MET:HG2	1:E:201:MET:HE1	1.99	0.45
1:E:450:GLU:C	1:E:452:HIS:H	2.25	0.45
1:E:482:GLU:OE1	1:E:532:LYS:HE2	2.16	0.45
1:E:576:MET:HE3	2:F:532:THR:HG21	1.99	0.45
2:F:45:LYS:HG2	2:F:46:ASP:N	2.30	0.45
2:F:317:LEU:C	2:F:319:HIS:N	2.75	0.45
2:F:551:GLU:C	2:F:553:ASP:N	2.72	0.45
1:G:79:PHE:CE2	1:G:83:ARG:HD2	2.52	0.45
1:G:161:ALA:O	1:G:162:VAL:C	2.60	0.45
1:G:403:GLY:O	1:G:404:ILE:C	2.59	0.45
1:G:460:TYR:O	1:G:461:LYS:C	2.59	0.45
1:G:482:GLU:OE1	1:G:532:LYS:HE2	2.16	0.45
1:G:576:MET:HE3	2:H:532:THR:HG21	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:79:SER:O	2:H:81:PRO:HD3	2.16	0.45
2:H:324:PHE:CD2	2:H:341:ILE:HG21	2.52	0.45
2:H:565:CYS:HB2	2:H:566:TYR:HD1	1.82	0.45
1:I:36:SER:CA	1:I:39:ARG:HG2	2.41	0.45
1:I:330:THR:HG22	1:I:331:SER:N	2.31	0.45
1:I:576:MET:HE3	2:J:532:THR:HG21	1.99	0.45
1:I:583:ARG:HB2	2:J:528:ARG:NH2	2.33	0.45
2:J:308:LEU:HD21	2:J:575:HIS:CG	2.51	0.45
2:J:486:THR:OG1	2:J:522:ARG:NH2	2.50	0.45
1:K:5:ILE:HD12	1:K:30:GLU:OE1	2.17	0.45
1:K:478:TRP:CZ3	2:L:521:ASP:OD1	2.70	0.45
1:K:557:VAL:HG22	2:L:419:ARG:NH1	2.32	0.45
2:L:151:ILE:HG22	2:L:152:ASN:N	2.32	0.45
2:L:155:MET:H	2:L:158:ASP:CB	2.29	0.45
2:L:208:LEU:HD11	2:L:243:ARG:CD	2.41	0.45
2:L:220:ILE:HD12	2:L:220:ILE:N	2.31	0.45
3:M:65:LEU:HD11	3:M:99:GLU:C	2.41	0.45
3:N:104:ARG:O	3:N:107:PHE:CE1	2.70	0.45
3:N:113:LEU:O	3:N:114:LEU:C	2.60	0.45
3:N:192:SER:OG	3:N:271:THR:O	2.33	0.45
3:N:323:PRO:HG2	3:N:334:TRP:CE3	2.52	0.45
3:O:26:ASP:C	3:O:26:ASP:OD1	2.60	0.45
3:P:91:PHE:O	3:P:92:SER:C	2.60	0.45
3:P:294:MET:HE2	3:P:357:ARG:HH11	1.82	0.45
4:Q:71:ILE:CG2	4:Q:75:ASP:CB	2.95	0.45
4:Q:98:VAL:CG2	4:Q:99:CYS:N	2.80	0.45
3:R:113:LEU:O	3:R:114:LEU:C	2.60	0.45
3:R:162:GLU:CG	3:R:163:GLY:N	2.79	0.45
3:R:239:HIS:O	3:R:241:CYS:N	2.51	0.45
3:R:294:MET:HE2	3:R:357:ARG:HH11	1.82	0.45
4:T:25:ASP:O	4:T:26:LYS:C	2.59	0.45
4:T:80:THR:O	4:T:83:LEU:N	2.47	0.45
4:X:50:LEU:HD22	4:X:52:TRP:HB2	1.99	0.45
1:A:236:ASP:CG	1:A:239:GLY:H	2.26	0.44
1:A:382:MET:SD	1:A:404:ILE:HG23	2.57	0.44
1:A:488:VAL:O	1:A:489:SER:C	2.60	0.44
1:A:576:MET:HE3	2:B:532:THR:HG21	1.99	0.44
2:B:155:MET:H	2:B:158:ASP:CB	2.29	0.44
2:B:577:PRO:O	2:B:579:ASN:N	2.50	0.44
1:C:73:LEU:C	1:C:75:ALA:N	2.71	0.44
1:C:172:MET:HG2	1:C:201:MET:HE1	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:351:VAL:HG23	1:C:352:ASP:N	2.32	0.44
1:C:403:GLY:O	1:C:404:ILE:C	2.59	0.44
1:C:576:MET:O	1:C:577:ARG:C	2.60	0.44
1:C:583:ARG:HB2	2:D:528:ARG:NH2	2.32	0.44
2:D:54:VAL:O	2:D:57:CYS:HB3	2.17	0.44
2:D:79:SER:O	2:D:81:PRO:HD3	2.16	0.44
2:D:390:ARG:HG2	2:D:390:ARG:HH11	1.82	0.44
1:E:19:THR:O	1:E:22:GLU:N	2.50	0.44
1:E:46:ARG:O	1:E:50:VAL:HG23	2.16	0.44
1:E:115:THR:HB	1:E:118:VAL:HG23	1.97	0.44
1:E:135:CYS:O	1:E:136:ARG:C	2.60	0.44
1:E:155:LYS:CG	1:E:156:LYS:N	2.80	0.44
1:E:264:SER:O	1:E:266:ALA:N	2.50	0.44
1:E:351:VAL:HG23	1:E:352:ASP:N	2.32	0.44
1:E:382:MET:SD	1:E:404:ILE:HG23	2.57	0.44
2:F:96:GLU:O	2:F:97:ASP:C	2.58	0.44
2:F:324:PHE:CD2	2:F:341:ILE:HG21	2.52	0.44
2:F:400:GLN:HA	2:F:400:GLN:HE21	1.81	0.44
2:F:530:LEU:C	2:F:532:THR:N	2.75	0.44
1:G:5:ILE:HD12	1:G:30:GLU:OE1	2.17	0.44
1:G:19:THR:O	1:G:22:GLU:N	2.50	0.44
1:G:51:ALA:HA	1:G:54:LEU:HD12	1.99	0.44
1:G:67:GLN:O	1:G:70:CYS:CB	2.56	0.44
1:G:86:TYR:O	1:G:87:LEU:C	2.59	0.44
1:G:172:MET:HG2	1:G:201:MET:HE1	1.99	0.44
1:G:351:VAL:HG23	1:G:352:ASP:N	2.32	0.44
1:G:561:GLN:HG3	1:G:565:GLU:OE2	2.17	0.44
2:H:18:LEU:N	2:H:18:LEU:CD2	2.78	0.44
2:H:43:VAL:HG12	2:H:43:VAL:O	2.17	0.44
2:H:99:ASN:HA	2:H:100:PRO:HD2	1.75	0.44
2:H:220:ILE:HD12	2:H:220:ILE:N	2.32	0.44
2:H:264:MET:HE2	2:H:564:ILE:HG21	1.98	0.44
2:H:392:VAL:O	2:H:395:LEU:N	2.50	0.44
2:H:577:PRO:O	2:H:579:ASN:N	2.50	0.44
1:I:19:THR:O	1:I:22:GLU:N	2.50	0.44
1:I:155:LYS:CG	1:I:156:LYS:N	2.80	0.44
1:I:305:LEU:O	1:I:306:ARG:C	2.59	0.44
1:I:460:TYR:O	1:I:461:LYS:C	2.59	0.44
1:I:478:TRP:CZ3	2:J:521:ASP:OD1	2.70	0.44
1:I:506:LEU:HD23	1:I:506:LEU:N	2.32	0.44
2:J:151:ILE:HG22	2:J:152:ASN:N	2.32	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:363:THR:O	2:J:364:GLU:O	2.35	0.44
2:J:577:PRO:O	2:J:579:ASN:N	2.51	0.44
1:K:70:CYS:O	1:K:73:LEU:HB2	2.16	0.44
1:K:79:PHE:O	1:K:82:LYS:N	2.50	0.44
1:K:359:VAL:O	1:K:360:SER:C	2.60	0.44
1:K:380:GLY:O	1:K:381:MET:C	2.60	0.44
1:K:506:LEU:N	1:K:506:LEU:HD23	2.32	0.44
2:L:55:VAL:C	2:L:57:CYS:N	2.71	0.44
2:L:169:ILE:O	2:L:170:SER:C	2.59	0.44
2:L:289:VAL:C	2:L:291:LEU:H	2.25	0.44
2:L:378:GLY:C	2:L:380:CYS:N	2.75	0.44
2:L:567:ILE:HA	2:L:572:SER:OG	2.17	0.44
3:M:177:GLU:CD	3:M:388:SER:HB3	2.42	0.44
3:M:255:PHE:N	3:M:255:PHE:HD2	2.14	0.44
3:N:26:ASP:C	3:N:26:ASP:OD1	2.60	0.44
3:O:162:GLU:CG	3:O:163:GLY:N	2.79	0.44
3:O:241:CYS:O	3:O:255:PHE:CB	2.57	0.44
3:O:327:THR:HG23	3:O:355:LEU:O	2.18	0.44
3:O:384:TYR:CA	3:O:411:TYR:HB2	2.44	0.44
3:P:43:GLU:C	3:P:45:MET:N	2.72	0.44
3:P:57:PHE:N	3:P:57:PHE:CD1	2.84	0.44
3:R:255:PHE:N	3:R:255:PHE:HD2	2.14	0.44
3:R:343:TRP:CZ2	3:R:356:MET:HB2	2.51	0.44
4:S:88:VAL:O	4:S:89:GLU:C	2.59	0.44
4:S:114:LEU:O	4:S:117:PHE:N	2.44	0.44
4:T:71:ILE:CG2	4:T:75:ASP:CB	2.95	0.44
4:U:72:GLU:O	4:U:75:ASP:HB2	2.17	0.44
3:V:22:ARG:CG	3:V:23:GLY:N	2.76	0.44
3:V:323:PRO:HG2	3:V:334:TRP:CE3	2.52	0.44
4:W:71:ILE:HG21	4:W:75:ASP:CB	2.44	0.44
4:W:87:TYR:CE2	4:W:91:LEU:HD11	2.50	0.44
1:A:19:THR:O	1:A:22:GLU:N	2.50	0.44
1:A:389:LEU:CD1	1:A:400:CYS:CB	2.96	0.44
1:A:460:TYR:O	1:A:461:LYS:C	2.59	0.44
1:A:557:VAL:HG22	2:B:419:ARG:NH1	2.32	0.44
1:A:561:GLN:HG3	1:A:565:GLU:OE2	2.17	0.44
2:B:102:ILE:O	2:B:104:ALA:N	2.50	0.44
2:B:118:ILE:O	2:B:119:THR:C	2.60	0.44
2:B:188:ALA:O	2:B:189:GLU:C	2.61	0.44
2:B:399:ILE:C	2:B:401:THR:H	2.23	0.44
1:C:382:MET:SD	1:C:404:ILE:HG23	2.57	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:478:TRP:CZ3	2:D:521:ASP:OD1	2.70	0.44
1:C:502:GLU:OE1	1:C:537:PHE:HB3	2.17	0.44
1:C:561:GLN:HG3	1:C:565:GLU:OE2	2.17	0.44
2:D:85:ILE:O	2:D:86:MET:C	2.61	0.44
2:D:158:ASP:C	2:D:160:GLY:H	2.25	0.44
2:D:165:LEU:O	2:D:169:ILE:N	2.49	0.44
2:D:289:VAL:C	2:D:291:LEU:N	2.75	0.44
2:D:486:THR:O	2:D:487:ALA:C	2.61	0.44
2:D:577:PRO:O	2:D:579:ASN:N	2.50	0.44
1:E:46:ARG:HE	1:E:69:GLU:HG3	1.82	0.44
1:E:257:GLY:O	1:E:299:ILE:HG23	2.16	0.44
1:E:370:PHE:HD2	1:E:370:PHE:HA	1.65	0.44
1:E:506:LEU:HD23	1:E:506:LEU:N	2.32	0.44
2:F:6:TYR:O	2:F:8:THR:OG1	2.35	0.44
2:F:139:LYS:HE2	2:F:175:MET:HG2	1.98	0.44
2:F:181:VAL:O	2:F:182:ALA:C	2.59	0.44
2:F:392:VAL:O	2:F:395:LEU:N	2.50	0.44
2:F:476:GLU:O	2:F:477:SER:C	2.59	0.44
1:G:152:TYR:HA	1:G:155:LYS:CE	2.47	0.44
1:G:441:LEU:HD23	1:G:441:LEU:O	2.17	0.44
1:G:488:VAL:O	1:G:489:SER:C	2.60	0.44
2:H:139:LYS:HE2	2:H:175:MET:HG2	1.98	0.44
2:H:313:ARG:HB2	2:H:316:ILE:HD11	1.99	0.44
1:I:58:MET:HE1	4:X:15:ARG:CA	2.46	0.44
1:I:68:LEU:HG	1:I:69:GLU:N	2.14	0.44
1:I:280:THR:O	1:I:281:SER:C	2.61	0.44
1:I:519:THR:CG2	1:I:520:SER:N	2.79	0.44
1:I:561:GLN:HG3	1:I:565:GLU:OE2	2.17	0.44
2:J:102:ILE:O	2:J:104:ALA:N	2.50	0.44
2:J:390:ARG:HH11	2:J:390:ARG:HG2	1.83	0.44
2:J:391:CYS:O	2:J:394:THR:N	2.50	0.44
1:K:46:ARG:HE	1:K:69:GLU:HG3	1.83	0.44
1:K:84:ILE:O	1:K:85:GLY:C	2.61	0.44
1:K:161:ALA:O	1:K:162:VAL:C	2.60	0.44
1:K:248:ARG:O	1:K:249:ILE:C	2.58	0.44
1:K:284:VAL:O	1:K:285:GLY:C	2.59	0.44
2:L:102:ILE:HG22	2:L:103:ARG:N	2.32	0.44
2:L:335:LYS:O	2:L:338:LYS:HB2	2.17	0.44
2:L:360:GLU:O	2:L:361:TYR:C	2.60	0.44
2:L:385:GLU:C	2:L:387:SER:N	2.67	0.44
2:L:486:THR:OG1	2:L:522:ARG:NH2	2.50	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:577:PRO:O	2:L:579:ASN:N	2.50	0.44
3:M:42:GLU:HB3	3:M:302:LYS:CB	2.48	0.44
3:M:104:ARG:O	3:M:107:PHE:CE1	2.70	0.44
3:N:87:VAL:O	3:N:88:VAL:C	2.60	0.44
3:O:239:HIS:O	3:O:241:CYS:N	2.51	0.44
3:O:312:ILE:CA	3:O:378:VAL:HG12	2.34	0.44
3:O:376:ILE:HG23	3:O:376:ILE:O	2.18	0.44
3:P:323:PRO:HG2	3:P:334:TRP:CE3	2.52	0.44
4:Q:56:LYS:HG3	4:Q:73:GLY:HA2	1.99	0.44
3:R:28:SER:O	3:R:29:GLU:C	2.60	0.44
4:S:71:ILE:HG21	4:S:75:ASP:CB	2.44	0.44
4:S:84:ILE:C	4:S:86:ARG:N	2.72	0.44
3:V:16:LEU:HD13	3:V:16:LEU:C	2.42	0.44
3:V:118:MET:CB	3:V:123:PRO:HA	2.41	0.44
3:V:162:GLU:CG	3:V:163:GLY:N	2.79	0.44
3:V:180:ASN:HA	3:V:417:ASP:HB2	1.99	0.44
3:V:196:GLY:HA3	3:V:267:TYR:CZ	2.52	0.44
4:W:72:GLU:O	4:W:75:ASP:HB2	2.17	0.44
4:W:80:THR:O	4:W:83:LEU:N	2.47	0.44
4:W:132:LEU:C	4:W:135:ILE:HG22	2.41	0.44
1:A:14:ILE:HG22	1:A:14:ILE:O	2.18	0.44
1:A:155:LYS:CG	1:A:156:LYS:N	2.80	0.44
1:A:236:ASP:OD2	1:A:239:GLY:N	2.51	0.44
1:A:248:ARG:O	1:A:249:ILE:C	2.58	0.44
2:B:97:ASP:HA	2:B:98:PRO:HD3	1.51	0.44
2:B:122:LEU:O	2:B:123:CYS:C	2.59	0.44
1:C:187:ASN:O	1:C:188:HIS:C	2.58	0.44
1:C:380:GLY:O	1:C:381:MET:C	2.60	0.44
1:C:576:MET:HE3	2:D:532:THR:HG21	1.99	0.44
2:D:6:TYR:O	2:D:8:THR:OG1	2.35	0.44
2:D:122:LEU:HG	2:D:123:CYS:N	2.31	0.44
2:D:363:THR:O	2:D:364:GLU:O	2.35	0.44
2:F:7:PHE:HD2	4:U:99:CYS:HA	1.81	0.44
2:F:38:ILE:HD13	2:F:38:ILE:N	2.31	0.44
2:F:55:VAL:C	2:F:57:CYS:N	2.71	0.44
2:F:151:ILE:HG22	2:F:152:ASN:N	2.32	0.44
2:F:363:THR:O	2:F:364:GLU:O	2.35	0.44
2:F:486:THR:O	2:F:487:ALA:C	2.61	0.44
1:G:139:ALA:O	1:G:142:VAL:HB	2.18	0.44
1:G:272:ALA:O	1:G:275:ALA:HB3	2.16	0.44
1:G:380:GLY:O	1:G:381:MET:C	2.60	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:158:ASP:C	2:H:160:GLY:H	2.25	0.44
2:H:310:VAL:CG1	2:H:317:LEU:HD21	2.42	0.44
2:H:339:LEU:C	2:H:341:ILE:N	2.74	0.44
1:I:31:CYS:HA	1:I:34:ILE:HB	2.00	0.44
1:I:74:ILE:CG2	1:I:86:TYR:HE1	2.22	0.44
1:I:118:VAL:O	1:I:119:GLN:C	2.58	0.44
1:I:522:THR:O	1:I:524:GLY:N	2.51	0.44
2:J:43:VAL:HG12	2:J:43:VAL:O	2.17	0.44
2:J:79:SER:O	2:J:81:PRO:HD3	2.16	0.44
2:J:264:MET:HE2	2:J:564:ILE:HG21	1.98	0.44
2:J:289:VAL:C	2:J:291:LEU:N	2.75	0.44
2:J:307:ASN:OD1	2:J:344:ARG:NH1	2.50	0.44
2:J:308:LEU:H	2:J:308:LEU:HG	1.61	0.44
2:J:324:PHE:CD2	2:J:341:ILE:HG21	2.52	0.44
2:J:486:THR:O	2:J:487:ALA:C	2.61	0.44
1:K:44:THR:O	1:K:45:TYR:CB	2.65	0.44
1:K:187:ASN:O	1:K:188:HIS:C	2.58	0.44
1:K:236:ASP:OD2	1:K:239:GLY:N	2.51	0.44
1:K:239:GLY:C	1:K:240:ILE:HG13	2.32	0.44
2:L:122:LEU:O	2:L:123:CYS:C	2.59	0.44
2:L:305:ASN:ND2	2:L:572:SER:OG	2.49	0.44
3:M:171:VAL:HG13	3:M:202:VAL:CG2	2.36	0.44
3:N:16:LEU:C	3:N:16:LEU:HD13	2.42	0.44
3:N:306:THR:HG22	3:N:349:PRO:CA	2.35	0.44
3:O:87:VAL:O	3:O:88:VAL:C	2.60	0.44
3:O:374:PRO:HA	3:O:375:PRO:HD3	1.76	0.44
3:P:113:LEU:O	3:P:114:LEU:C	2.60	0.44
3:P:177:GLU:CD	3:P:388:SER:HB3	2.42	0.44
3:P:196:GLY:HA3	3:P:267:TYR:CZ	2.52	0.44
3:P:376:ILE:HG23	3:P:376:ILE:O	2.18	0.44
4:Q:18:LYS:CG	4:Q:20:TYR:HE1	2.30	0.44
3:R:57:PHE:N	3:R:57:PHE:CD1	2.84	0.44
4:S:14:LEU:CD1	4:S:16:LEU:N	2.81	0.44
4:S:109:LYS:CA	4:S:112:PHE:HD1	2.24	0.44
4:T:88:VAL:CG2	4:T:89:GLU:H	2.31	0.44
3:V:28:SER:O	3:V:29:GLU:C	2.60	0.44
3:V:104:ARG:O	3:V:107:PHE:CE1	2.70	0.44
3:V:177:GLU:CD	3:V:388:SER:HB3	2.42	0.44
4:W:31:MET:O	4:W:32:VAL:C	2.60	0.44
4:X:78:LEU:O	4:X:79:ILE:C	2.60	0.44
1:A:351:VAL:HG23	1:A:352:ASP:N	2.32	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:35:LYS:HE2	3:M:137:GLN:NE2	2.32	0.44
2:B:333:TYR:O	2:B:334:VAL:C	2.60	0.44
2:B:374:VAL:C	2:B:376:ALA:N	2.71	0.44
1:C:46:ARG:HE	1:C:69:GLU:HG3	1.83	0.44
1:C:522:THR:O	1:C:524:GLY:N	2.51	0.44
2:D:151:ILE:O	2:D:153:ALA:N	2.51	0.44
2:D:304:ARG:HG2	2:D:573:VAL:CA	2.47	0.44
1:E:236:ASP:OD2	1:E:239:GLY:N	2.51	0.44
1:E:261:ASP:O	1:E:262:ASP:C	2.60	0.44
1:E:344:GLN:NE2	1:E:374:ASN:ND2	2.66	0.44
1:E:359:VAL:O	1:E:360:SER:C	2.60	0.44
2:F:151:ILE:O	2:F:153:ALA:N	2.51	0.44
1:G:79:PHE:O	1:G:82:LYS:N	2.50	0.44
1:G:330:THR:HG22	1:G:331:SER:N	2.31	0.44
1:G:565:GLU:OE2	2:H:522:ARG:NH2	2.30	0.44
2:H:307:ASN:OD1	2:H:344:ARG:NH1	2.50	0.44
2:H:363:THR:O	2:H:364:GLU:O	2.35	0.44
2:H:390:ARG:HH11	2:H:390:ARG:HG2	1.83	0.44
2:H:398:LEU:O	2:H:401:THR:OG1	2.30	0.44
2:H:570:LEU:HG	3:P:75:ALA:N	2.33	0.44
1:I:172:MET:HG2	1:I:201:MET:HE1	1.99	0.44
1:I:236:ASP:OD2	1:I:239:GLY:N	2.51	0.44
1:I:344:GLN:NE2	1:I:374:ASN:ND2	2.66	0.44
2:J:139:LYS:HE2	2:J:175:MET:HG2	1.98	0.44
2:J:430:ALA:C	2:J:432:LEU:N	2.73	0.44
1:K:31:CYS:HA	1:K:34:ILE:HB	2.00	0.44
1:K:426:LEU:O	1:K:428:THR:N	2.50	0.44
1:K:522:THR:O	1:K:524:GLY:N	2.51	0.44
1:K:531:MET:HE2	1:K:531:MET:HB3	1.87	0.44
2:L:54:VAL:O	2:L:57:CYS:HB3	2.17	0.44
2:L:188:ALA:O	2:L:189:GLU:C	2.61	0.44
2:L:191:HIS:O	2:L:191:HIS:CG	2.64	0.44
2:L:307:ASN:OD1	2:L:344:ARG:NH1	2.50	0.44
2:L:363:THR:O	2:L:364:GLU:O	2.35	0.44
2:L:426:GLU:C	2:L:428:VAL:N	2.74	0.44
2:L:451:ILE:HG22	2:L:452:VAL:N	2.33	0.44
3:M:16:LEU:C	3:M:16:LEU:HD13	2.42	0.44
3:M:26:ASP:C	3:M:26:ASP:OD1	2.60	0.44
3:M:28:SER:O	3:M:29:GLU:C	2.60	0.44
3:M:239:HIS:O	3:M:241:CYS:N	2.51	0.44
3:M:262:PHE:C	3:M:262:PHE:CD1	2.94	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:M:327:THR:HG23	3:M:355:LEU:O	2.17	0.44
3:N:28:SER:O	3:N:29:GLU:C	2.60	0.44
3:N:42:GLU:HB3	3:N:302:LYS:CB	2.48	0.44
3:N:177:GLU:CD	3:N:388:SER:HB3	2.42	0.44
3:N:215:ASN:HD22	3:N:390:ILE:C	2.26	0.44
3:N:376:ILE:HG23	3:N:376:ILE:O	2.18	0.44
3:O:91:PHE:O	3:O:92:SER:C	2.60	0.44
3:O:192:SER:OG	3:O:271:THR:O	2.33	0.44
3:O:266:SER:C	3:O:267:TYR:HD1	2.26	0.44
4:Q:50:LEU:HD22	4:Q:52:TRP:HB2	1.99	0.44
4:S:7:LEU:HD21	4:S:67:PHE:CG	2.51	0.44
4:S:32:VAL:O	4:S:33:ARG:C	2.59	0.44
4:S:78:LEU:O	4:S:79:ILE:C	2.60	0.44
4:T:98:VAL:CG2	4:T:99:CYS:N	2.80	0.44
3:V:215:ASN:HD22	3:V:390:ILE:C	2.26	0.44
3:V:294:MET:HE2	3:V:357:ARG:HH11	1.82	0.44
4:X:71:ILE:CG2	4:X:75:ASP:CB	2.95	0.44
4:X:107:PHE:HD2	4:X:107:PHE:N	2.16	0.44
1:A:558:GLU:CD	2:B:482:LEU:HD23	2.43	0.44
2:B:181:VAL:O	2:B:182:ALA:C	2.59	0.44
2:B:324:PHE:CD2	2:B:341:ILE:HG21	2.52	0.44
2:B:530:LEU:C	2:B:532:THR:N	2.75	0.44
1:C:11:ILE:CA	1:C:14:ILE:HD13	2.40	0.44
1:C:51:ALA:HA	1:C:54:LEU:HD12	1.99	0.44
1:C:426:LEU:O	1:C:428:THR:N	2.50	0.44
2:D:220:ILE:HD12	2:D:220:ILE:N	2.32	0.44
2:D:305:ASN:N	2:D:305:ASN:HD22	2.13	0.44
2:D:308:LEU:H	2:D:308:LEU:HG	1.61	0.44
2:D:391:CYS:O	2:D:394:THR:N	2.50	0.44
2:D:570:LEU:HG	3:N:75:ALA:N	2.33	0.44
1:E:8:ARG:HD2	3:M:337:GLU:HB2	1.98	0.44
1:E:154:ARG:O	1:E:155:LYS:C	2.57	0.44
1:E:463:ILE:HG13	1:E:463:ILE:H	1.56	0.44
1:E:500:VAL:O	1:E:500:VAL:HG22	2.18	0.44
1:E:522:THR:O	1:E:524:GLY:N	2.51	0.44
1:E:557:VAL:HG22	2:F:419:ARG:NH1	2.32	0.44
2:F:43:VAL:HG12	2:F:43:VAL:O	2.17	0.44
2:F:225:CYS:O	2:F:227:GLY:N	2.49	0.44
2:F:313:ARG:HA	2:F:313:ARG:HD3	1.82	0.44
1:G:64:HIS:O	1:G:65:PHE:C	2.59	0.44
1:G:257:GLY:O	1:G:299:ILE:HG23	2.16	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:280:THR:O	1:G:281:SER:C	2.61	0.44
1:G:395:GLU:CD	1:G:395:GLU:H	2.20	0.44
1:G:522:THR:O	1:G:524:GLY:N	2.51	0.44
1:G:572:LYS:HG2	1:G:573:TYR:CE1	2.53	0.44
2:H:289:VAL:C	2:H:291:LEU:H	2.25	0.44
2:H:309:ILE:C	2:H:311:GLN:N	2.75	0.44
2:H:333:TYR:O	2:H:334:VAL:C	2.60	0.44
2:H:486:THR:HG22	2:H:487:ALA:H	1.76	0.44
2:H:523:GLY:O	2:H:524:TYR:C	2.59	0.44
1:I:5:ILE:HD12	1:I:30:GLU:OE1	2.17	0.44
1:I:152:TYR:HA	1:I:155:LYS:CE	2.47	0.44
1:I:380:GLY:O	1:I:381:MET:C	2.60	0.44
2:J:309:ILE:C	2:J:311:GLN:N	2.75	0.44
2:J:333:TYR:O	2:J:334:VAL:C	2.60	0.44
2:J:392:VAL:O	2:J:395:LEU:N	2.50	0.44
2:J:499:THR:O	2:J:500:GLN:O	2.34	0.44
1:K:51:ALA:HA	1:K:54:LEU:HD12	1.99	0.44
1:K:139:ALA:O	1:K:142:VAL:HB	2.18	0.44
1:K:236:ASP:CG	1:K:239:GLY:H	2.26	0.44
1:K:281:SER:OG	1:K:282:LYS:N	2.50	0.44
1:K:374:ASN:HB3	1:K:375:GLY:H	1.60	0.44
1:K:502:GLU:HG3	1:K:537:PHE:CE2	2.52	0.44
1:K:583:ARG:HB2	2:L:528:ARG:NH2	2.33	0.44
2:L:309:ILE:C	2:L:311:GLN:N	2.75	0.44
2:L:317:LEU:C	2:L:319:HIS:N	2.75	0.44
2:L:371:ARG:O	2:L:372:LYS:C	2.60	0.44
2:L:390:ARG:HH11	2:L:390:ARG:HG2	1.83	0.44
2:L:530:LEU:C	2:L:532:THR:N	2.75	0.44
2:L:570:LEU:HG	3:V:75:ALA:N	2.33	0.44
3:M:323:PRO:HB3	3:M:325:PHE:HE2	1.81	0.44
3:N:8:VAL:C	3:N:9:LEU:HD23	2.42	0.44
3:O:28:SER:O	3:O:29:GLU:C	2.60	0.44
3:O:262:PHE:CD1	3:O:262:PHE:C	2.94	0.44
3:P:266:SER:C	3:P:267:TYR:HD1	2.26	0.44
3:R:109:ILE:HD13	3:R:139:GLY:HA3	1.98	0.44
3:R:160:ARG:C	3:R:161:SER:O	2.59	0.44
4:T:50:LEU:HD22	4:T:52:TRP:HB2	1.99	0.44
4:U:14:LEU:CD1	4:U:16:LEU:N	2.81	0.44
4:U:71:ILE:CG2	4:U:75:ASP:CB	2.95	0.44
3:V:34:MET:O	3:V:35:PRO:C	2.59	0.44
3:V:118:MET:CG	3:V:119:ASP:N	2.81	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:V:239:HIS:O	3:V:241:CYS:N	2.51	0.44
4:X:14:LEU:CD1	4:X:16:LEU:N	2.81	0.44
4:X:31:MET:O	4:X:32:VAL:C	2.60	0.44
1:A:161:ALA:O	1:A:162:VAL:C	2.60	0.44
1:A:172:MET:HG2	1:A:201:MET:HE1	1.99	0.44
2:B:54:VAL:O	2:B:57:CYS:HB3	2.17	0.44
2:B:289:VAL:C	2:B:291:LEU:N	2.75	0.44
2:B:360:GLU:O	2:B:361:TYR:C	2.60	0.44
2:B:499:THR:O	2:B:500:GLN:O	2.34	0.44
2:B:567:ILE:HA	2:B:572:SER:OG	2.17	0.44
1:C:5:ILE:HD12	1:C:30:GLU:OE1	2.17	0.44
1:C:359:VAL:O	1:C:360:SER:C	2.60	0.44
2:D:43:VAL:O	2:D:43:VAL:HG12	2.17	0.44
2:D:135:PRO:O	2:D:136:TYR:C	2.61	0.44
2:D:324:PHE:CD2	2:D:341:ILE:HG21	2.52	0.44
2:D:330:ASP:HA	2:D:331:PRO:HD3	1.84	0.44
2:D:335:LYS:O	2:D:338:LYS:HB2	2.17	0.44
2:D:540:VAL:O	2:D:543:ALA:HB2	2.18	0.44
1:E:187:ASN:ND2	1:E:189:GLY:H	2.15	0.44
1:E:330:THR:HG22	1:E:331:SER:N	2.31	0.44
1:E:488:VAL:O	1:E:489:SER:C	2.60	0.44
2:F:118:ILE:O	2:F:119:THR:C	2.60	0.44
2:F:188:ALA:O	2:F:189:GLU:C	2.61	0.44
2:F:219:GLN:OE1	2:F:255:VAL:HG11	2.17	0.44
2:F:360:GLU:O	2:F:363:THR:HB	2.17	0.44
2:F:486:THR:OG1	2:F:522:ARG:NH2	2.50	0.44
1:G:46:ARG:HE	1:G:69:GLU:HG3	1.83	0.44
1:G:83:ARG:HG3	4:Q:112:PHE:CE2	2.53	0.44
1:G:155:LYS:O	1:G:156:LYS:C	2.60	0.44
1:G:557:VAL:HG22	2:H:419:ARG:NH1	2.32	0.44
1:G:558:GLU:CD	2:H:482:LEU:HD23	2.43	0.44
2:H:74:MET:O	2:H:77:ALA:N	2.39	0.44
2:H:122:LEU:HG	2:H:123:CYS:N	2.31	0.44
2:H:151:ILE:O	2:H:153:ALA:N	2.51	0.44
2:H:335:LYS:O	2:H:338:LYS:HB2	2.17	0.44
2:H:415:LYS:O	2:H:416:ASP:C	2.60	0.44
2:H:530:LEU:C	2:H:532:THR:N	2.75	0.44
1:I:236:ASP:CG	1:I:239:GLY:H	2.26	0.44
1:I:351:VAL:HG23	1:I:352:ASP:N	2.32	0.44
1:I:488:VAL:O	1:I:489:SER:C	2.60	0.44
1:I:500:VAL:O	1:I:500:VAL:HG22	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:502:GLU:HG3	1:I:537:PHE:CE2	2.52	0.44
2:J:151:ILE:O	2:J:153:ALA:N	2.51	0.44
2:J:371:ARG:O	2:J:372:LYS:C	2.60	0.44
2:J:565:CYS:HB2	2:J:566:TYR:HD1	1.82	0.44
1:K:56:MET:O	1:K:57:HIS:C	2.58	0.44
1:K:83:ARG:HG3	4:W:112:PHE:CE2	2.53	0.44
1:K:486:LEU:H	1:K:486:LEU:HG	1.59	0.44
2:L:313:ARG:HB2	2:L:316:ILE:HD11	1.99	0.44
3:M:8:VAL:C	3:M:9:LEU:HD23	2.42	0.44
3:M:196:GLY:HA3	3:M:267:TYR:CZ	2.52	0.44
3:N:32:HIS:ND1	3:N:52:HIS:CD2	2.81	0.44
3:N:42:GLU:HG3	3:N:302:LYS:HB3	1.98	0.44
3:N:395:LEU:HD12	3:N:395:LEU:HA	1.70	0.44
3:O:106:ASN:O	3:O:109:ILE:CG1	2.65	0.44
3:O:180:ASN:HA	3:O:417:ASP:HB2	1.99	0.44
3:P:26:ASP:C	3:P:26:ASP:OD1	2.60	0.44
3:P:118:MET:CB	3:P:123:PRO:HA	2.41	0.44
3:P:162:GLU:CG	3:P:163:GLY:H	2.31	0.44
3:P:215:ASN:HD22	3:P:390:ILE:C	2.26	0.44
3:P:239:HIS:O	3:P:241:CYS:N	2.50	0.44
3:R:42:GLU:HB3	3:R:302:LYS:CB	2.48	0.44
4:S:50:LEU:HD22	4:S:52:TRP:HB2	1.99	0.44
4:S:72:GLU:O	4:S:75:ASP:HB2	2.17	0.44
4:T:14:LEU:CD1	4:T:16:LEU:N	2.81	0.44
4:T:72:GLU:O	4:T:75:ASP:HB2	2.17	0.44
4:U:88:VAL:CG2	4:U:89:GLU:H	2.31	0.44
4:W:107:PHE:HD2	4:W:107:PHE:N	2.16	0.44
1:A:139:ALA:O	1:A:142:VAL:HB	2.18	0.44
1:A:280:THR:O	1:A:281:SER:C	2.61	0.44
1:A:344:GLN:NE2	1:A:374:ASN:ND2	2.66	0.44
1:A:583:ARG:HB2	2:B:528:ARG:NH2	2.32	0.44
2:B:309:ILE:C	2:B:311:GLN:N	2.75	0.44
2:B:317:LEU:C	2:B:319:HIS:N	2.75	0.44
1:C:83:ARG:HG3	4:T:112:PHE:CE2	2.53	0.44
1:C:86:TYR:O	1:C:87:LEU:C	2.59	0.44
1:C:160:CYS:O	1:C:164:VAL:HG23	2.18	0.44
2:D:151:ILE:HG22	2:D:152:ASN:N	2.32	0.44
2:D:451:ILE:HG22	2:D:452:VAL:N	2.33	0.44
1:E:79:PHE:CE2	1:E:83:ARG:HD2	2.52	0.44
1:E:160:CYS:O	1:E:164:VAL:HG23	2.18	0.44
1:E:389:LEU:CD1	1:E:400:CYS:CB	2.96	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:558:GLU:CD	2:F:482:LEU:HD23	2.43	0.44
2:F:158:ASP:C	2:F:160:GLY:H	2.25	0.44
1:G:198:LEU:O	1:G:201:MET:HB2	2.17	0.44
1:G:236:ASP:CG	1:G:239:GLY:H	2.26	0.44
1:G:271:LEU:O	1:G:274:VAL:HB	2.18	0.44
1:G:389:LEU:CD1	1:G:400:CYS:CB	2.96	0.44
2:H:2:THR:CG2	3:R:408:TRP:HH2	2.30	0.44
2:H:87:ALA:O	2:H:90:THR:HB	2.18	0.44
2:H:118:ILE:O	2:H:119:THR:C	2.60	0.44
2:H:122:LEU:C	2:H:125:PRO:HD2	2.42	0.44
2:H:220:ILE:O	2:H:222:ILE:N	2.51	0.44
2:H:317:LEU:C	2:H:319:HIS:N	2.75	0.44
2:H:495:LYS:N	2:H:496:PRO:CD	2.81	0.44
1:I:287:ALA:O	1:I:288:ILE:C	2.58	0.44
1:I:382:MET:SD	1:I:404:ILE:HG23	2.57	0.44
1:I:476:ALA:C	1:I:478:TRP:N	2.72	0.44
1:I:558:GLU:CD	2:J:482:LEU:HD23	2.43	0.44
2:J:54:VAL:O	2:J:57:CYS:HB3	2.17	0.44
2:J:299:GLN:O	2:J:300:TYR:O	2.36	0.44
1:K:135:CYS:O	1:K:136:ARG:C	2.60	0.44
1:K:207:ASP:O	1:K:208:MET:C	2.61	0.44
1:K:271:LEU:O	1:K:274:VAL:HB	2.18	0.44
1:K:576:MET:O	1:K:577:ARG:C	2.60	0.44
2:L:85:ILE:O	2:L:86:MET:C	2.61	0.44
2:L:373:ALA:O	2:L:376:ALA:CB	2.63	0.44
2:L:392:VAL:O	2:L:395:LEU:N	2.50	0.44
2:L:466:LEU:CD2	2:L:488:ILE:HD13	2.48	0.44
2:L:565:CYS:HB2	2:L:566:TYR:HD1	1.83	0.44
3:N:118:MET:CG	3:N:119:ASP:N	2.81	0.44
3:N:266:SER:C	3:N:267:TYR:HD1	2.26	0.44
3:O:97:GLU:O	3:O:102:SER:OG	2.35	0.44
3:O:104:ARG:O	3:O:107:PHE:CE1	2.70	0.44
3:O:118:MET:CB	3:O:123:PRO:HA	2.41	0.44
3:P:118:MET:CG	3:P:119:ASP:N	2.81	0.44
3:P:327:THR:HG23	3:P:355:LEU:O	2.18	0.44
4:Q:90:LEU:CD2	4:Q:90:LEU:N	2.79	0.44
4:Q:107:PHE:HD2	4:Q:107:PHE:N	2.16	0.44
3:R:266:SER:C	3:R:267:TYR:HD1	2.26	0.44
4:S:71:ILE:CG2	4:S:75:ASP:CB	2.95	0.44
4:T:90:LEU:CD2	4:T:90:LEU:N	2.79	0.44
4:T:107:PHE:HD2	4:T:107:PHE:N	2.16	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:U:32:VAL:HG12	4:U:33:ARG:N	2.33	0.44
3:V:8:VAL:HG22	3:V:67:LEU:CD1	2.48	0.44
3:V:91:PHE:O	3:V:92:SER:C	2.60	0.44
4:W:14:LEU:CD1	4:W:16:LEU:N	2.81	0.44
4:W:50:LEU:HD22	4:W:52:TRP:HB2	1.99	0.44
4:W:71:ILE:CG2	4:W:75:ASP:CB	2.95	0.44
4:W:98:VAL:CG2	4:W:99:CYS:N	2.80	0.44
4:X:88:VAL:CG2	4:X:89:GLU:H	2.31	0.44
1:A:48:ARG:O	1:A:51:ALA:HB3	2.18	0.44
1:A:403:GLY:O	1:A:404:ILE:C	2.59	0.44
2:B:43:VAL:HG12	2:B:43:VAL:O	2.17	0.44
2:B:56:ASN:N	2:B:56:ASN:ND2	2.65	0.44
2:B:151:ILE:HG22	2:B:152:ASN:N	2.32	0.44
2:B:433:CYS:HA	2:B:448:MET:CE	2.48	0.44
2:B:510:ALA:HB1	2:B:519:LEU:CD1	2.41	0.44
2:B:545:LYS:HA	2:B:546:PRO:HD3	1.44	0.44
2:B:570:LEU:HG	3:M:75:ALA:N	2.33	0.44
2:B:571:ALA:C	2:B:573:VAL:N	2.76	0.44
1:C:14:ILE:O	1:C:14:ILE:HG22	2.18	0.44
1:C:43:ASN:N	1:C:43:ASN:ND2	2.66	0.44
1:C:155:LYS:O	1:C:156:LYS:C	2.60	0.44
1:C:236:ASP:CG	1:C:239:GLY:H	2.25	0.44
1:C:459:LEU:HD23	1:C:459:LEU:HA	1.91	0.44
2:D:179:ASN:HD22	2:D:179:ASN:H	1.64	0.44
2:D:309:ILE:C	2:D:311:GLN:N	2.75	0.44
2:D:360:GLU:O	2:D:361:TYR:C	2.60	0.44
2:D:466:LEU:CD2	2:D:488:ILE:HD13	2.48	0.44
2:D:495:LYS:N	2:D:496:PRO:CD	2.81	0.44
1:E:10:LEU:HD12	1:E:14:ILE:HD11	2.00	0.44
1:E:79:PHE:O	1:E:82:LYS:N	2.50	0.44
1:E:83:ARG:HG3	4:U:112:PHE:CE2	2.53	0.44
1:E:257:GLY:HA3	1:E:299:ILE:HD13	2.00	0.44
1:E:284:VAL:O	1:E:285:GLY:C	2.59	0.44
2:F:135:PRO:O	2:F:136:TYR:C	2.61	0.44
1:G:172:MET:SD	1:G:172:MET:C	2.99	0.44
1:G:500:VAL:O	1:G:500:VAL:HG22	2.18	0.44
1:G:506:LEU:N	1:G:506:LEU:HD23	2.32	0.44
2:H:56:ASN:N	2:H:56:ASN:ND2	2.65	0.44
2:H:436:LEU:HD13	2:H:436:LEU:O	2.16	0.44
2:H:510:ALA:HB1	2:H:519:LEU:CD1	2.41	0.44
1:I:323:ASN:O	1:I:326:TYR:N	2.45	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:343:VAL:O	1:I:344:GLN:C	2.61	0.44
1:I:441:LEU:C	1:I:441:LEU:CD2	2.88	0.44
1:I:559:LEU:O	1:I:560:GLN:C	2.61	0.44
2:J:96:GLU:O	2:J:97:ASP:C	2.58	0.44
2:J:148:LEU:N	2:J:148:LEU:CD1	2.80	0.44
2:J:220:ILE:O	2:J:222:ILE:N	2.51	0.44
1:K:135:CYS:C	1:K:137:ASP:N	2.75	0.44
1:K:279:GLU:N	1:K:279:GLU:OE1	2.45	0.44
1:K:389:LEU:CD1	1:K:400:CYS:CB	2.96	0.44
2:L:81:PRO:O	2:L:82:ASP:C	2.61	0.44
2:L:173:ASN:O	2:L:174:PRO:C	2.59	0.44
2:L:264:MET:HE2	2:L:564:ILE:HG21	1.98	0.44
2:L:366:ASP:OD1	2:L:366:ASP:C	2.61	0.44
3:M:118:MET:CB	3:M:123:PRO:HA	2.41	0.44
3:M:323:PRO:HG2	3:M:334:TRP:CE3	2.52	0.44
3:M:376:ILE:HG23	3:M:376:ILE:O	2.18	0.44
3:O:37:LEU:O	3:O:38:MET:C	2.59	0.44
3:O:118:MET:CG	3:O:119:ASP:N	2.81	0.44
3:P:8:VAL:HG22	3:P:67:LEU:CD1	2.48	0.44
3:P:384:TYR:CA	3:P:411:TYR:HB2	2.44	0.44
4:Q:72:GLU:O	4:Q:75:ASP:HB2	2.17	0.44
4:Q:78:LEU:O	4:Q:79:ILE:C	2.60	0.44
3:R:91:PHE:C	3:R:93:GLU:N	2.73	0.44
4:T:32:VAL:HG12	4:T:33:ARG:N	2.33	0.44
4:U:56:LYS:O	4:U:71:ILE:N	2.43	0.44
4:U:80:THR:O	4:U:83:LEU:N	2.47	0.44
4:W:56:LYS:HG3	4:W:73:GLY:HA2	1.99	0.44
4:X:31:MET:CE	4:X:52:TRP:HH2	2.27	0.44
4:X:72:GLU:O	4:X:75:ASP:HB2	2.17	0.44
1:A:135:CYS:O	1:A:136:ARG:C	2.60	0.44
1:A:233:PRO:CD	2:D:464:GLU:CD	2.91	0.44
1:A:422:ILE:CG2	1:A:441:LEU:HD12	2.48	0.44
1:A:484:GLY:O	1:A:485:ASP:C	2.61	0.44
1:A:576:MET:O	1:A:577:ARG:C	2.60	0.44
2:B:74:MET:O	2:B:77:ALA:N	2.39	0.44
2:B:297:GLU:CD	3:M:60:ILE:HG22	2.43	0.44
2:B:309:ILE:HG22	2:B:310:VAL:N	2.33	0.44
2:B:335:LYS:O	2:B:338:LYS:HB2	2.17	0.44
2:B:540:VAL:O	2:B:543:ALA:HB2	2.18	0.44
1:C:46:ARG:HH21	1:C:69:GLU:HG3	1.83	0.44
1:C:422:ILE:CG2	1:C:441:LEU:HD12	2.48	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:484:GLY:O	1:C:485:ASP:C	2.61	0.44
1:C:572:LYS:HG2	1:C:573:TYR:CE1	2.53	0.44
2:D:155:MET:H	2:D:158:ASP:CB	2.29	0.44
2:D:366:ASP:OD1	2:D:366:ASP:C	2.61	0.44
2:D:433:CYS:HA	2:D:448:MET:CE	2.48	0.44
1:E:236:ASP:CG	1:E:239:GLY:H	2.25	0.44
1:E:343:VAL:O	1:E:344:GLN:C	2.61	0.44
1:E:422:ILE:CG2	1:E:441:LEU:HD12	2.48	0.44
1:E:524:GLY:C	1:E:526:ALA:N	2.74	0.44
1:E:581:LEU:C	1:E:583:ARG:N	2.69	0.44
2:F:289:VAL:C	2:F:291:LEU:H	2.25	0.44
2:F:299:GLN:O	2:F:300:TYR:O	2.36	0.44
2:F:307:ASN:OD1	2:F:344:ARG:NH1	2.50	0.44
2:F:335:LYS:O	2:F:338:LYS:HB2	2.17	0.44
2:F:360:GLU:O	2:F:361:TYR:C	2.60	0.44
2:F:390:ARG:HH11	2:F:390:ARG:HG2	1.83	0.44
1:G:31:CYS:HA	1:G:34:ILE:HB	2.00	0.44
1:G:155:LYS:CG	1:G:156:LYS:N	2.80	0.44
1:G:232:SER:CB	2:J:464:GLU:OE1	2.66	0.44
1:G:583:ARG:HB2	2:H:528:ARG:NH2	2.32	0.44
2:H:135:PRO:O	2:H:136:TYR:C	2.61	0.44
2:H:219:GLN:OE1	2:H:255:VAL:HG11	2.17	0.44
2:H:299:GLN:O	2:H:300:TYR:O	2.36	0.44
2:H:360:GLU:O	2:H:361:TYR:C	2.60	0.44
2:H:360:GLU:O	2:H:363:THR:HB	2.17	0.44
2:H:366:ASP:OD1	2:H:366:ASP:C	2.61	0.44
2:H:378:GLY:C	2:H:380:CYS:N	2.75	0.44
2:H:567:ILE:HA	2:H:572:SER:OG	2.17	0.44
1:I:14:ILE:O	1:I:14:ILE:HG22	2.18	0.44
1:I:139:ALA:O	1:I:142:VAL:HB	2.18	0.44
1:I:271:LEU:O	1:I:274:VAL:HB	2.18	0.44
1:I:422:ILE:CG2	1:I:441:LEU:HD12	2.48	0.44
2:J:181:VAL:O	2:J:182:ALA:C	2.59	0.44
2:J:297:GLU:CD	3:R:60:ILE:HG22	2.43	0.44
2:J:466:LEU:N	2:J:466:LEU:CD1	2.79	0.44
2:J:540:VAL:O	2:J:543:ALA:HB2	2.18	0.44
1:K:208:MET:HE2	1:K:208:MET:HB3	1.84	0.44
1:K:416:ARG:HD3	1:K:454:TYR:HE1	1.82	0.44
1:K:450:GLU:C	1:K:452:HIS:H	2.25	0.44
1:K:460:TYR:O	1:K:464:LEU:HD23	2.18	0.44
2:L:35:LYS:CE	3:V:137:GLN:HE21	2.31	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:190:SER:C	2:L:192:PRO:HD2	2.35	0.44
2:L:384:VAL:O	2:L:387:SER:OG	2.27	0.44
2:L:433:CYS:HA	2:L:448:MET:CE	2.48	0.44
2:L:495:LYS:N	2:L:496:PRO:CD	2.81	0.44
3:M:107:PHE:O	3:M:110:ILE:HB	2.18	0.44
3:M:395:LEU:HD12	3:M:395:LEU:HA	1.70	0.44
3:N:177:GLU:OE2	3:N:388:SER:HB3	2.18	0.44
3:N:239:HIS:O	3:N:241:CYS:N	2.50	0.44
3:O:43:GLU:O	3:O:45:MET:N	2.51	0.44
3:O:129:LYS:C	3:O:131:LEU:N	2.71	0.44
3:O:162:GLU:CG	3:O:163:GLY:H	2.31	0.44
3:O:215:ASN:HD22	3:O:390:ILE:C	2.26	0.44
3:O:277:ILE:O	3:O:277:ILE:HG22	2.18	0.44
3:P:107:PHE:O	3:P:110:ILE:HB	2.18	0.44
3:P:177:GLU:OE2	3:P:388:SER:HB3	2.18	0.44
3:R:87:VAL:O	3:R:88:VAL:C	2.60	0.44
3:R:126:THR:CG2	3:R:131:LEU:HD13	2.40	0.44
3:R:177:GLU:CD	3:R:388:SER:HB3	2.42	0.44
3:R:215:ASN:HD22	3:R:390:ILE:C	2.26	0.44
3:R:327:THR:HG23	3:R:355:LEU:O	2.17	0.44
4:S:114:LEU:HD23	4:S:115:ASP:N	2.33	0.44
4:S:132:LEU:C	4:S:135:ILE:HG22	2.41	0.44
4:T:18:LYS:CG	4:T:20:TYR:HE1	2.30	0.44
4:U:56:LYS:HG3	4:U:73:GLY:HA2	1.99	0.44
3:V:160:ARG:C	3:V:161:SER:O	2.59	0.44
3:V:327:THR:HG23	3:V:355:LEU:O	2.17	0.44
4:W:18:LYS:CG	4:W:20:TYR:HE1	2.30	0.44
4:X:98:VAL:CG2	4:X:99:CYS:N	2.80	0.44
1:A:46:ARG:HE	1:A:69:GLU:HG3	1.82	0.43
1:A:103:MET:O	1:A:107:ILE:HG12	2.19	0.43
1:A:436:ASP:O	1:A:439:PRO:HD2	2.18	0.43
1:A:491:GLN:OE1	1:G:276:THR:CG2	2.66	0.43
2:B:355:LEU:O	2:B:357:GLU:N	2.52	0.43
2:B:390:ARG:HH11	2:B:390:ARG:HG2	1.83	0.43
2:B:391:CYS:O	2:B:394:THR:N	2.50	0.43
2:B:486:THR:O	2:B:487:ALA:C	2.61	0.43
1:C:6:ARG:O	1:C:7:LEU:C	2.61	0.43
1:C:236:ASP:OD2	1:C:239:GLY:N	2.51	0.43
2:D:16:PHE:O	2:D:19:LYS:N	2.51	0.43
2:D:118:ILE:O	2:D:119:THR:C	2.60	0.43
2:D:122:LEU:C	2:D:125:PRO:HD2	2.42	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:437:ASP:C	2:D:439:ASP:N	2.76	0.43
2:D:570:LEU:CD2	3:N:77:VAL:HG22	2.47	0.43
1:E:43:ASN:ND2	1:E:43:ASN:N	2.66	0.43
1:E:280:THR:O	1:E:281:SER:C	2.61	0.43
1:E:576:MET:O	1:E:577:ARG:C	2.61	0.43
2:F:220:ILE:O	2:F:222:ILE:N	2.51	0.43
2:F:565:CYS:HB2	2:F:566:TYR:HD1	1.82	0.43
1:G:48:ARG:O	1:G:51:ALA:HB3	2.18	0.43
1:G:78:LYS:O	1:G:79:PHE:C	2.61	0.43
1:G:257:GLY:HA3	1:G:299:ILE:HD13	2.00	0.43
1:G:375:GLY:O	1:G:377:ASN:N	2.51	0.43
2:H:151:ILE:HG22	2:H:152:ASN:N	2.32	0.43
2:H:355:LEU:O	2:H:357:GLU:N	2.51	0.43
2:H:487:ALA:HA	2:H:490:LYS:HD2	2.00	0.43
2:H:540:VAL:O	2:H:543:ALA:HB2	2.18	0.43
1:I:434:ARG:HE	1:I:434:ARG:HB3	1.63	0.43
1:I:564:VAL:O	1:I:565:GLU:C	2.61	0.43
1:I:572:LYS:HG2	1:I:573:TYR:CE1	2.53	0.43
2:J:7:PHE:HD2	4:X:99:CYS:HA	1.81	0.43
2:J:155:MET:H	2:J:158:ASP:CB	2.29	0.43
2:J:433:CYS:HA	2:J:448:MET:CE	2.48	0.43
2:J:437:ASP:C	2:J:439:ASP:N	2.76	0.43
2:J:466:LEU:CD2	2:J:488:ILE:HD13	2.48	0.43
1:K:6:ARG:O	1:K:7:LEU:C	2.61	0.43
2:L:118:ILE:O	2:L:119:THR:C	2.60	0.43
2:L:487:ALA:HA	2:L:490:LYS:HD2	2.00	0.43
3:M:177:GLU:OE2	3:M:388:SER:HB3	2.18	0.43
3:M:180:ASN:HA	3:M:417:ASP:HB2	1.99	0.43
3:M:266:SER:C	3:M:267:TYR:HD1	2.26	0.43
3:M:399:GLU:HG3	3:M:401:SER:N	2.29	0.43
3:N:91:PHE:O	3:N:92:SER:C	2.60	0.43
3:O:32:HIS:ND1	3:O:52:HIS:CD2	2.81	0.43
3:O:86:LYS:O	3:O:89:GLN:CB	2.64	0.43
3:O:294:MET:HE2	3:O:357:ARG:HH11	1.82	0.43
3:O:380:PHE:HB2	3:O:381:GLU:H	1.66	0.43
3:R:108:VAL:O	3:R:109:ILE:C	2.61	0.43
3:R:277:ILE:O	3:R:277:ILE:HG22	2.18	0.43
3:R:321:ASP:OD1	3:R:322:SER:N	2.38	0.43
4:T:56:LYS:HG3	4:T:73:GLY:HA2	1.99	0.43
4:T:59:TYR:CD2	4:T:59:TYR:N	2.83	0.43
4:U:98:VAL:CG2	4:U:99:CYS:N	2.80	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:X:32:VAL:HG12	4:X:33:ARG:N	2.33	0.43
4:X:56:LYS:HG3	4:X:73:GLY:HA2	1.99	0.43
1:A:83:ARG:HG3	4:S:112:PHE:CE2	2.53	0.43
1:A:380:GLY:O	1:A:381:MET:C	2.60	0.43
1:A:450:GLU:C	1:A:452:HIS:H	2.25	0.43
1:A:502:GLU:HG3	1:A:537:PHE:CE2	2.52	0.43
1:A:522:THR:O	1:A:524:GLY:N	2.51	0.43
1:A:557:VAL:HG21	2:B:415:LYS:NZ	2.33	0.43
2:B:7:PHE:HD2	4:S:99:CYS:HA	1.81	0.43
2:B:151:ILE:O	2:B:153:ALA:N	2.51	0.43
2:B:220:ILE:O	2:B:222:ILE:N	2.51	0.43
2:B:570:LEU:CD2	3:M:77:VAL:HG22	2.47	0.43
1:C:5:ILE:O	1:C:52:LYS:NZ	2.46	0.43
1:C:36:SER:CA	1:C:39:ARG:HG2	2.41	0.43
1:C:48:ARG:O	1:C:51:ALA:HB3	2.18	0.43
1:C:207:ASP:O	1:C:208:MET:C	2.61	0.43
1:C:261:ASP:O	1:C:262:ASP:C	2.60	0.43
1:C:441:LEU:C	1:C:441:LEU:CD2	2.88	0.43
2:D:122:LEU:O	2:D:123:CYS:C	2.59	0.43
2:D:264:MET:HE2	2:D:564:ILE:HG21	1.98	0.43
2:D:299:GLN:O	2:D:300:TYR:O	2.36	0.43
2:D:553:ASP:O	2:D:554:LEU:HB2	2.18	0.43
1:E:6:ARG:O	1:E:7:LEU:C	2.61	0.43
1:E:68:LEU:HD23	1:E:68:LEU:H	1.83	0.43
1:E:84:ILE:O	1:E:85:GLY:C	2.61	0.43
1:E:103:MET:O	1:E:107:ILE:HG12	2.18	0.43
1:E:139:ALA:O	1:E:142:VAL:HB	2.18	0.43
1:E:143:GLU:O	1:E:144:LYS:C	2.61	0.43
1:E:267:MET:HE1	1:E:299:ILE:HD12	2.00	0.43
1:E:436:ASP:O	1:E:439:PRO:HD2	2.19	0.43
1:E:557:VAL:HG21	2:F:415:LYS:NZ	2.33	0.43
2:F:124:GLU:CB	2:F:125:PRO:HD3	2.42	0.43
2:F:165:LEU:O	2:F:169:ILE:N	2.49	0.43
2:F:297:GLU:CD	3:O:60:ILE:HG22	2.43	0.43
2:F:333:TYR:O	2:F:334:VAL:C	2.60	0.43
2:F:391:CYS:O	2:F:394:THR:N	2.50	0.43
2:F:460:ASP:O	2:F:462:ALA:N	2.51	0.43
2:F:487:ALA:HA	2:F:490:LYS:HD2	2.00	0.43
1:G:6:ARG:O	1:G:7:LEU:C	2.61	0.43
1:G:10:LEU:HD12	1:G:14:ILE:HD11	2.00	0.43
1:G:267:MET:HE1	1:G:299:ILE:HD12	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:436:ASP:O	1:G:439:PRO:HD2	2.19	0.43
1:G:502:GLU:OE1	1:G:537:PHE:HB3	2.17	0.43
2:H:208:LEU:HD11	2:H:243:ARG:CD	2.41	0.43
2:H:466:LEU:CD2	2:H:488:ILE:HD13	2.48	0.43
2:H:577:PRO:HA	2:H:578:PRO:HD3	1.89	0.43
1:I:48:ARG:O	1:I:51:ALA:HB3	2.18	0.43
1:I:78:LYS:O	1:I:79:PHE:C	2.61	0.43
1:I:375:GLY:O	1:I:377:ASN:N	2.51	0.43
1:I:460:TYR:O	1:I:464:LEU:HD23	2.19	0.43
2:J:85:ILE:O	2:J:86:MET:C	2.61	0.43
2:J:219:GLN:OE1	2:J:255:VAL:HG11	2.17	0.43
2:J:570:LEU:HG	3:R:75:ALA:N	2.33	0.43
1:K:232:SER:HA	1:K:233:PRO:HD3	1.71	0.43
1:K:280:THR:O	1:K:281:SER:C	2.61	0.43
1:K:403:GLY:O	1:K:404:ILE:C	2.59	0.43
1:K:422:ILE:CG2	1:K:441:LEU:HD12	2.48	0.43
1:K:558:GLU:CD	2:L:482:LEU:HD23	2.43	0.43
2:L:16:PHE:O	2:L:19:LYS:N	2.51	0.43
2:L:43:VAL:HG12	2:L:43:VAL:O	2.17	0.43
2:L:360:GLU:O	2:L:363:THR:HB	2.17	0.43
2:L:426:GLU:CA	2:L:429:ILE:HD13	2.44	0.43
2:L:452:VAL:HG13	2:L:453:GLY:H	1.80	0.43
3:M:277:ILE:O	3:M:277:ILE:HG22	2.18	0.43
3:N:144:THR:CG2	3:N:145:GLY:N	2.73	0.43
3:N:247:PHE:HB2	3:N:248:GLU:H	1.62	0.43
3:N:384:TYR:CA	3:N:411:TYR:HB2	2.44	0.43
3:O:103:ILE:C	3:O:105:ASP:N	2.74	0.43
3:O:343:TRP:CZ2	3:O:356:MET:HB2	2.51	0.43
3:P:314:ILE:HA	3:P:315:PRO:HD3	1.83	0.43
4:Q:14:LEU:CD1	4:Q:16:LEU:N	2.81	0.43
3:R:8:VAL:HG22	3:R:67:LEU:CD1	2.48	0.43
3:R:107:PHE:O	3:R:110:ILE:HB	2.18	0.43
3:R:329:VAL:CG1	3:R:330:GLY:N	2.81	0.43
4:S:18:LYS:CG	4:S:20:TYR:HE1	2.30	0.43
4:S:31:MET:O	4:S:32:VAL:C	2.60	0.43
4:W:78:LEU:O	4:W:79:ILE:C	2.60	0.43
1:A:269:ASP:O	1:A:270:ILE:C	2.62	0.43
1:A:506:LEU:HD23	1:A:506:LEU:N	2.32	0.43
2:B:35:LYS:CE	3:M:137:GLN:HE21	2.31	0.43
2:B:51:PHE:O	2:B:52:PRO:C	2.61	0.43
2:B:122:LEU:C	2:B:125:PRO:HD2	2.42	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:358:LEU:O	2:B:359:LYS:C	2.62	0.43
2:B:360:GLU:O	2:B:363:THR:HB	2.17	0.43
2:B:366:ASP:OD1	2:B:366:ASP:C	2.61	0.43
2:B:411:ILE:HD12	2:B:411:ILE:H	1.84	0.43
2:B:460:ASP:O	2:B:462:ALA:N	2.51	0.43
2:B:495:LYS:N	2:B:496:PRO:CD	2.81	0.43
1:C:235:HIS:O	1:C:236:ASP:C	2.61	0.43
1:C:280:THR:O	1:C:281:SER:C	2.61	0.43
1:C:436:ASP:O	1:C:439:PRO:HD2	2.19	0.43
1:C:463:ILE:HG13	1:C:463:ILE:H	1.56	0.43
1:C:557:VAL:HG22	2:D:419:ARG:NH1	2.32	0.43
1:C:558:GLU:CD	2:D:482:LEU:HD23	2.43	0.43
2:D:460:ASP:O	2:D:462:ALA:N	2.51	0.43
1:E:46:ARG:HH21	1:E:69:GLU:HG3	1.83	0.43
1:E:51:ALA:HA	1:E:54:LEU:HD12	1.99	0.43
1:E:161:ALA:O	1:E:162:VAL:C	2.60	0.43
1:E:207:ASP:O	1:E:208:MET:C	2.61	0.43
1:E:380:GLY:O	1:E:381:MET:C	2.60	0.43
1:E:419:ILE:O	1:E:423:MET:HG3	2.19	0.43
1:E:459:LEU:HD23	1:E:459:LEU:HA	1.91	0.43
1:E:463:ILE:CD1	1:E:476:ALA:CB	2.96	0.43
1:E:531:MET:HE2	1:E:531:MET:HB3	1.87	0.43
2:F:387:SER:HB2	2:F:390:ARG:HD3	2.00	0.43
1:G:222:ILE:O	1:G:223:LEU:C	2.62	0.43
1:G:329:LEU:O	1:G:332:LEU:CB	2.67	0.43
1:G:508:ILE:N	1:G:508:ILE:CD1	2.82	0.43
2:H:38:ILE:HD13	2:H:38:ILE:N	2.31	0.43
2:H:88:VAL:O	2:H:91:PHE:N	2.50	0.43
1:I:68:LEU:HD23	1:I:68:LEU:H	1.84	0.43
1:I:363:ARG:O	1:I:366:MET:HB3	2.19	0.43
1:I:389:LEU:CD1	1:I:400:CYS:CB	2.96	0.43
2:J:118:ILE:O	2:J:119:THR:C	2.60	0.43
2:J:487:ALA:HA	2:J:490:LYS:HD2	2.00	0.43
1:K:14:ILE:HG22	1:K:14:ILE:O	2.18	0.43
1:K:48:ARG:O	1:K:51:ALA:HB3	2.18	0.43
1:K:54:LEU:HD23	1:K:54:LEU:HA	1.88	0.43
1:K:78:LYS:O	1:K:79:PHE:C	2.61	0.43
1:K:155:LYS:CG	1:K:156:LYS:N	2.80	0.43
1:K:329:LEU:O	1:K:332:LEU:CB	2.67	0.43
1:K:434:ARG:HE	1:K:434:ARG:HB3	1.63	0.43
2:L:51:PHE:O	2:L:52:PRO:C	2.61	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:151:ILE:O	2:L:153:ALA:N	2.51	0.43
3:M:162:GLU:CG	3:M:163:GLY:H	2.31	0.43
3:M:183:VAL:HB	3:M:420:LEU:HD22	2.01	0.43
3:N:241:CYS:O	3:N:255:PHE:CB	2.57	0.43
3:O:8:VAL:HG22	3:O:67:LEU:CD1	2.48	0.43
3:O:107:PHE:O	3:O:110:ILE:HB	2.18	0.43
3:O:328:THR:HB	3:O:329:VAL:HG23	2.01	0.43
3:P:171:VAL:HG13	3:P:202:VAL:CG2	2.36	0.43
3:P:285:LYS:O	3:P:286:HIS:CB	2.64	0.43
3:R:108:VAL:O	3:R:111:TYR:N	2.52	0.43
4:U:18:LYS:CG	4:U:20:TYR:HE1	2.30	0.43
3:V:107:PHE:O	3:V:110:ILE:HB	2.18	0.43
4:W:32:VAL:HG12	4:W:33:ARG:N	2.33	0.43
4:X:30:LYS:HZ3	4:X:33:ARG:NH2	2.16	0.43
1:A:46:ARG:HH21	1:A:69:GLU:HG3	1.83	0.43
1:A:79:PHE:O	1:A:82:LYS:N	2.50	0.43
1:A:207:ASP:O	1:A:208:MET:C	2.61	0.43
1:A:267:MET:HE1	1:A:299:ILE:HD12	2.00	0.43
1:A:363:ARG:O	1:A:366:MET:HB3	2.19	0.43
1:A:416:ARG:CD	1:A:454:TYR:CE1	2.96	0.43
2:B:255:VAL:HG23	2:B:256:VAL:HG23	2.01	0.43
2:B:363:THR:O	2:B:364:GLU:O	2.35	0.43
2:B:487:ALA:HA	2:B:490:LYS:HD2	2.00	0.43
1:C:103:MET:O	1:C:107:ILE:HG12	2.18	0.43
1:C:139:ALA:O	1:C:142:VAL:HB	2.18	0.43
1:C:375:GLY:O	1:C:377:ASN:N	2.51	0.43
1:C:389:LEU:CD1	1:C:400:CYS:CB	2.96	0.43
1:C:441:LEU:HD23	1:C:441:LEU:O	2.17	0.43
1:C:508:ILE:N	1:C:508:ILE:CD1	2.82	0.43
1:C:557:VAL:HG21	2:D:415:LYS:NZ	2.33	0.43
2:D:188:ALA:O	2:D:189:GLU:C	2.61	0.43
2:D:297:GLU:CD	3:N:60:ILE:HG22	2.43	0.43
2:D:393:SER:O	2:D:397:ASP:HB2	2.19	0.43
1:E:19:THR:HG21	3:O:142:LEU:HD21	2.01	0.43
1:E:502:GLU:OE1	1:E:537:PHE:HB3	2.17	0.43
2:F:54:VAL:O	2:F:57:CYS:HB3	2.17	0.43
2:F:87:ALA:O	2:F:90:THR:HB	2.18	0.43
2:F:97:ASP:HA	2:F:98:PRO:HD3	1.51	0.43
2:F:366:ASP:OD1	2:F:366:ASP:C	2.61	0.43
2:F:393:SER:O	2:F:397:ASP:HB2	2.19	0.43
2:F:433:CYS:HA	2:F:448:MET:CE	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:540:VAL:O	2:F:543:ALA:HB2	2.18	0.43
1:G:11:ILE:O	1:G:13:THR:N	2.52	0.43
1:G:84:ILE:O	1:G:85:GLY:C	2.61	0.43
1:G:135:CYS:O	1:G:136:ARG:C	2.60	0.43
1:G:419:ILE:O	1:G:423:MET:HG3	2.18	0.43
2:H:59:GLN:HE21	2:H:59:GLN:HB3	1.59	0.43
2:H:255:VAL:HG23	2:H:256:VAL:HG23	2.01	0.43
2:H:387:SER:HB2	2:H:390:ARG:HD3	2.00	0.43
1:I:11:ILE:O	1:I:13:THR:N	2.52	0.43
1:I:51:ALA:HA	1:I:54:LEU:HD12	1.99	0.43
1:I:83:ARG:HG3	4:X:112:PHE:CE2	2.53	0.43
1:I:235:HIS:O	1:I:236:ASP:C	2.61	0.43
1:I:377:ASN:O	1:I:378:ILE:C	2.61	0.43
2:J:58:MET:O	2:J:60:THR:N	2.42	0.43
2:J:59:GLN:HE21	2:J:59:GLN:HB3	1.59	0.43
2:J:81:PRO:O	2:J:82:ASP:C	2.61	0.43
2:J:122:LEU:HG	2:J:123:CYS:N	2.32	0.43
2:J:217:TRP:NE1	3:R:123:PRO:HB2	2.34	0.43
2:J:355:LEU:O	2:J:357:GLU:N	2.51	0.43
2:J:495:LYS:N	2:J:496:PRO:CD	2.81	0.43
2:J:571:ALA:C	2:J:573:VAL:N	2.76	0.43
1:K:5:ILE:C	1:K:52:LYS:HZ1	2.24	0.43
1:K:67:GLN:O	1:K:70:CYS:CB	2.56	0.43
1:K:68:LEU:HG	1:K:69:GLU:N	2.15	0.43
1:K:201:MET:HE2	1:K:201:MET:HB3	1.90	0.43
1:K:375:GLY:O	1:K:377:ASN:N	2.51	0.43
2:L:220:ILE:O	2:L:222:ILE:N	2.51	0.43
2:L:297:GLU:CD	3:V:60:ILE:HG22	2.43	0.43
2:L:304:ARG:HG2	2:L:573:VAL:CA	2.47	0.43
2:L:355:LEU:O	2:L:357:GLU:N	2.52	0.43
2:L:358:LEU:O	2:L:359:LYS:C	2.62	0.43
3:M:4:SER:OG	3:M:22:ARG:HD3	2.19	0.43
3:N:103:ILE:C	3:N:105:ASP:N	2.74	0.43
3:N:214:LEU:HA	3:N:214:LEU:HD23	1.82	0.43
3:N:399:GLU:HG3	3:N:401:SER:N	2.29	0.43
3:P:91:PHE:O	3:P:93:GLU:N	2.52	0.43
3:P:108:VAL:O	3:P:111:TYR:N	2.52	0.43
3:P:183:VAL:HB	3:P:420:LEU:HD22	2.01	0.43
4:Q:87:TYR:CZ	4:Q:91:LEU:HD11	2.54	0.43
4:Q:114:LEU:HD23	4:Q:115:ASP:N	2.33	0.43
3:R:118:MET:CG	3:R:119:ASP:N	2.81	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:S:88:VAL:CG2	4:S:89:GLU:H	2.31	0.43
4:T:114:LEU:O	4:T:115:ASP:C	2.62	0.43
3:V:42:GLU:HB3	3:V:302:LYS:CB	2.48	0.43
1:A:143:GLU:O	1:A:144:LYS:C	2.61	0.43
1:A:172:MET:HB2	1:A:201:MET:CE	2.46	0.43
1:A:339:ASP:O	1:A:342:ALA:HB3	2.19	0.43
1:A:372:LEU:H	1:A:372:LEU:CD1	2.31	0.43
1:A:419:ILE:O	1:A:423:MET:HG3	2.19	0.43
2:B:16:PHE:O	2:B:19:LYS:N	2.51	0.43
2:B:16:PHE:CZ	3:N:416:GLY:HA3	2.54	0.43
2:B:81:PRO:O	2:B:82:ASP:C	2.61	0.43
2:B:476:GLU:O	2:B:477:SER:C	2.59	0.43
2:B:565:CYS:HB2	2:B:566:TYR:HD1	1.82	0.43
1:C:78:LYS:O	1:C:79:PHE:C	2.61	0.43
1:C:257:GLY:HA3	1:C:299:ILE:HD13	2.00	0.43
1:C:564:VAL:O	1:C:565:GLU:C	2.61	0.43
2:D:220:ILE:O	2:D:222:ILE:N	2.51	0.43
2:D:313:ARG:HD3	2:D:313:ARG:HA	1.82	0.43
2:D:333:TYR:O	2:D:334:VAL:C	2.60	0.43
2:D:367:VAL:O	2:D:369:PHE:N	2.52	0.43
1:E:222:ILE:O	1:E:223:LEU:C	2.62	0.43
1:E:564:VAL:O	1:E:565:GLU:C	2.61	0.43
1:E:583:ARG:HB2	2:F:528:ARG:NH2	2.33	0.43
2:F:330:ASP:O	2:F:335:LYS:HE3	2.19	0.43
1:G:59:LEU:HD12	1:G:59:LEU:HA	1.86	0.43
1:G:103:MET:O	1:G:107:ILE:HG12	2.18	0.43
1:G:160:CYS:O	1:G:164:VAL:HG23	2.18	0.43
1:G:232:SER:HA	1:G:233:PRO:HD3	1.71	0.43
1:G:236:ASP:OD2	1:G:239:GLY:N	2.51	0.43
1:G:430:GLY:O	1:G:431:SER:C	2.59	0.43
1:G:460:TYR:O	1:G:464:LEU:HD23	2.19	0.43
2:H:358:LEU:O	2:H:359:LYS:C	2.62	0.43
1:I:84:ILE:O	1:I:85:GLY:C	2.61	0.43
1:I:329:LEU:O	1:I:332:LEU:CB	2.67	0.43
1:I:506:LEU:O	1:I:508:ILE:N	2.52	0.43
2:J:256:VAL:O	2:J:259:ALA:HB3	2.19	0.43
2:J:429:ILE:O	2:J:430:ALA:C	2.62	0.43
2:J:530:LEU:C	2:J:532:THR:N	2.75	0.43
1:K:19:THR:HG21	3:V:142:LEU:HD21	2.01	0.43
1:K:46:ARG:HH21	1:K:69:GLU:HG3	1.83	0.43
1:K:172:MET:N	1:K:172:MET:CE	2.68	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:367:VAL:O	2:L:369:PHE:N	2.52	0.43
2:L:460:ASP:O	2:L:462:ALA:N	2.51	0.43
3:N:91:PHE:O	3:N:93:GLU:N	2.52	0.43
3:N:327:THR:HG23	3:N:355:LEU:O	2.17	0.43
3:O:108:VAL:O	3:O:109:ILE:C	2.61	0.43
3:O:384:TYR:N	3:O:384:TYR:HD2	2.15	0.43
3:P:395:LEU:HD12	3:P:395:LEU:HA	1.70	0.43
4:Q:88:VAL:CG2	4:Q:89:GLU:H	2.31	0.43
3:R:91:PHE:O	3:R:92:SER:C	2.60	0.43
4:S:56:LYS:HG3	4:S:73:GLY:HA2	1.99	0.43
4:S:114:LEU:O	4:S:115:ASP:C	2.62	0.43
3:V:4:SER:OG	3:V:22:ARG:HD3	2.19	0.43
3:V:97:GLU:O	3:V:102:SER:OG	2.35	0.43
3:V:108:VAL:O	3:V:111:TYR:N	2.52	0.43
3:V:277:ILE:O	3:V:277:ILE:HG22	2.18	0.43
4:W:70:ALA:O	4:W:71:ILE:HD13	2.19	0.43
4:X:18:LYS:CG	4:X:20:TYR:HE1	2.30	0.43
4:X:80:THR:O	4:X:83:LEU:N	2.47	0.43
1:A:11:ILE:O	1:A:13:THR:N	2.52	0.43
1:A:78:LYS:O	1:A:79:PHE:C	2.61	0.43
1:A:101:LEU:O	1:A:104:THR:HB	2.19	0.43
1:A:360:SER:O	1:A:361:ILE:C	2.62	0.43
2:B:330:ASP:O	2:B:335:LYS:HE3	2.19	0.43
2:B:371:ARG:O	2:B:372:LYS:C	2.60	0.43
2:B:404:ASN:O	2:B:407:VAL:HB	2.19	0.43
2:B:466:LEU:CD2	2:B:488:ILE:HD13	2.48	0.43
2:B:553:ASP:O	2:B:554:LEU:HB2	2.19	0.43
1:C:44:THR:O	1:C:45:TYR:CB	2.65	0.43
1:C:143:GLU:O	1:C:144:LYS:C	2.61	0.43
1:C:329:LEU:O	1:C:332:LEU:CB	2.67	0.43
1:C:339:ASP:O	1:C:342:ALA:HB3	2.19	0.43
1:C:519:THR:CG2	1:C:521:VAL:HG12	2.49	0.43
1:C:555:ILE:H	1:C:555:ILE:HG13	1.51	0.43
2:D:51:PHE:O	2:D:52:PRO:C	2.61	0.43
2:D:229:TYR:HB3	2:D:230:MET:H	1.21	0.43
2:D:256:VAL:O	2:D:259:ALA:HB3	2.19	0.43
2:D:524:TYR:O	2:D:527:TRP:N	2.52	0.43
1:E:78:LYS:O	1:E:79:PHE:C	2.61	0.43
1:E:377:ASN:O	1:E:378:ILE:C	2.61	0.43
1:E:484:GLY:O	1:E:485:ASP:C	2.61	0.43
2:F:5:LYS:NZ	3:M:261:GLU:OE2	2.51	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:56:ASN:N	2:F:56:ASN:ND2	2.65	0.43
2:F:378:GLY:C	2:F:380:CYS:N	2.75	0.43
2:F:404:ASN:O	2:F:407:VAL:HB	2.19	0.43
2:F:524:TYR:O	2:F:527:TRP:N	2.52	0.43
2:F:577:PRO:O	2:F:579:ASN:N	2.51	0.43
1:G:286:ASN:O	1:G:287:ALA:C	2.59	0.43
2:H:5:LYS:NZ	3:R:261:GLU:OE2	2.48	0.43
2:H:16:PHE:O	2:H:19:LYS:N	2.51	0.43
2:H:217:TRP:NE1	3:P:123:PRO:HB2	2.34	0.43
2:H:373:ALA:O	2:H:376:ALA:CB	2.63	0.43
2:H:460:ASP:O	2:H:462:ALA:N	2.51	0.43
2:H:486:THR:O	2:H:487:ALA:C	2.61	0.43
1:I:79:PHE:O	1:I:82:LYS:N	2.50	0.43
1:I:103:MET:O	1:I:107:ILE:HG12	2.18	0.43
1:I:161:ALA:O	1:I:162:VAL:C	2.60	0.43
1:I:281:SER:OG	1:I:282:LYS:N	2.50	0.43
2:J:16:PHE:O	2:J:19:LYS:N	2.51	0.43
2:J:378:GLY:C	2:J:380:CYS:N	2.75	0.43
2:J:460:ASP:O	2:J:462:ALA:N	2.51	0.43
1:K:152:TYR:HA	1:K:155:LYS:CE	2.47	0.43
1:K:155:LYS:O	1:K:156:LYS:C	2.60	0.43
1:K:181:ASN:O	1:K:182:LEU:C	2.62	0.43
1:K:377:ASN:O	1:K:378:ILE:C	2.61	0.43
1:K:557:VAL:HG21	2:L:415:LYS:NZ	2.33	0.43
2:L:158:ASP:C	2:L:160:GLY:H	2.25	0.43
2:L:370:VAL:O	2:L:371:ARG:C	2.61	0.43
2:L:437:ASP:C	2:L:439:ASP:N	2.76	0.43
3:N:107:PHE:O	3:N:110:ILE:HB	2.18	0.43
3:O:183:VAL:HB	3:O:420:LEU:HD22	2.01	0.43
3:P:56:ARG:C	3:P:57:PHE:CD1	2.97	0.43
3:P:86:LYS:O	3:P:89:GLN:CB	2.64	0.43
3:P:108:VAL:O	3:P:109:ILE:C	2.61	0.43
3:P:323:PRO:HB3	3:P:325:PHE:HE2	1.81	0.43
3:R:56:ARG:C	3:R:57:PHE:CD1	2.97	0.43
3:R:177:GLU:OE2	3:R:388:SER:HB3	2.18	0.43
3:R:376:ILE:HG23	3:R:376:ILE:O	2.18	0.43
3:R:384:TYR:N	3:R:384:TYR:HD2	2.15	0.43
4:S:70:ALA:O	4:S:71:ILE:HD13	2.19	0.43
4:S:87:TYR:CZ	4:S:91:LEU:HD11	2.54	0.43
4:T:70:ALA:O	4:T:71:ILE:HD13	2.19	0.43
4:T:87:TYR:CZ	4:T:91:LEU:HD11	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:T:113:ILE:O	4:T:114:LEU:C	2.62	0.43
4:T:131:VAL:HG12	4:T:132:LEU:N	2.34	0.43
4:U:87:TYR:CZ	4:U:91:LEU:HD11	2.54	0.43
3:V:266:SER:C	3:V:267:TYR:HD1	2.26	0.43
4:W:88:VAL:CG2	4:W:89:GLU:H	2.31	0.43
4:X:87:TYR:CZ	4:X:91:LEU:HD11	2.54	0.43
4:X:114:LEU:HD23	4:X:115:ASP:N	2.33	0.43
1:A:135:CYS:O	1:A:139:ALA:HB2	2.19	0.43
1:A:155:LYS:O	1:A:156:LYS:C	2.60	0.43
1:A:257:GLY:HA3	1:A:299:ILE:HD13	2.00	0.43
1:A:519:THR:CG2	1:A:521:VAL:HG12	2.49	0.43
2:B:85:ILE:O	2:B:86:MET:C	2.61	0.43
2:B:87:ALA:O	2:B:90:THR:HB	2.18	0.43
2:B:136:TYR:CD1	3:M:134:PHE:HE2	2.33	0.43
2:B:304:ARG:HG2	2:B:573:VAL:CA	2.47	0.43
2:B:399:ILE:C	2:B:401:THR:N	2.72	0.43
2:B:451:ILE:HG22	2:B:452:VAL:N	2.33	0.43
2:B:483:GLN:O	2:B:487:ALA:N	2.45	0.43
1:C:68:LEU:H	1:C:68:LEU:HD23	1.83	0.43
1:C:68:LEU:C	1:C:70:CYS:N	2.77	0.43
1:C:573:TYR:O	1:C:574:ASP:O	2.37	0.43
2:D:358:LEU:O	2:D:359:LYS:C	2.62	0.43
2:D:527:TRP:HA	2:D:527:TRP:HE3	1.84	0.43
1:E:339:ASP:O	1:E:342:ALA:HB3	2.19	0.43
1:E:350:ILE:O	1:E:351:VAL:C	2.62	0.43
1:E:565:GLU:OE2	2:F:522:ARG:NH2	2.30	0.43
2:F:16:PHE:O	2:F:19:LYS:N	2.51	0.43
2:F:104:ALA:O	2:F:107:VAL:HB	2.19	0.43
2:F:217:TRP:NE1	3:O:123:PRO:HB2	2.34	0.43
2:F:255:VAL:HG23	2:F:256:VAL:HG23	2.01	0.43
2:F:452:VAL:HG11	2:F:466:LEU:HD11	2.01	0.43
2:F:466:LEU:CD2	2:F:488:ILE:HD13	2.48	0.43
2:F:571:ALA:C	2:F:573:VAL:N	2.76	0.43
1:G:46:ARG:HH21	1:G:69:GLU:HG3	1.83	0.43
1:G:68:LEU:HD23	1:G:68:LEU:H	1.83	0.43
1:G:207:ASP:O	1:G:208:MET:C	2.61	0.43
1:G:261:ASP:O	1:G:262:ASP:C	2.60	0.43
1:G:363:ARG:O	1:G:366:MET:HB3	2.19	0.43
1:G:372:LEU:H	1:G:372:LEU:CD1	2.31	0.43
1:G:519:THR:CG2	1:G:521:VAL:HG12	2.49	0.43
1:G:559:LEU:O	1:G:560:GLN:C	2.61	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:564:VAL:O	1:G:565:GLU:C	2.61	0.43
2:H:367:VAL:O	2:H:369:PHE:N	2.52	0.43
2:H:404:ASN:O	2:H:407:VAL:HB	2.19	0.43
2:H:411:ILE:HD12	2:H:411:ILE:H	1.84	0.43
2:H:433:CYS:HA	2:H:448:MET:CE	2.48	0.43
2:H:524:TYR:O	2:H:527:TRP:N	2.52	0.43
1:I:19:THR:HG21	3:R:142:LEU:HD21	2.01	0.43
1:I:38:PHE:N	1:I:38:PHE:CD2	2.86	0.43
1:I:382:MET:CE	1:I:404:ILE:HG23	2.49	0.43
1:I:557:VAL:HG21	2:J:415:LYS:NZ	2.33	0.43
2:J:99:ASN:HA	2:J:100:PRO:HD2	1.75	0.43
2:J:104:ALA:O	2:J:107:VAL:HB	2.19	0.43
2:J:330:ASP:O	2:J:335:LYS:HE3	2.19	0.43
2:J:452:VAL:HG11	2:J:466:LEU:HD11	2.01	0.43
1:K:43:ASN:N	1:K:43:ASN:ND2	2.66	0.43
1:K:101:LEU:O	1:K:104:THR:HB	2.19	0.43
1:K:135:CYS:O	1:K:139:ALA:HB2	2.19	0.43
1:K:305:LEU:O	1:K:306:ARG:C	2.59	0.43
1:K:484:GLY:O	1:K:485:ASP:C	2.61	0.43
2:L:429:ILE:O	2:L:430:ALA:C	2.62	0.43
2:L:540:VAL:O	2:L:543:ALA:HB2	2.18	0.43
2:L:553:ASP:O	2:L:554:LEU:HB2	2.19	0.43
3:M:108:VAL:O	3:M:109:ILE:C	2.61	0.43
3:M:118:MET:CG	3:M:119:ASP:N	2.81	0.43
3:M:356:MET:SD	3:M:357:ARG:N	2.92	0.43
3:N:162:GLU:CG	3:N:163:GLY:H	2.31	0.43
3:N:329:VAL:CG1	3:N:330:GLY:N	2.81	0.43
3:O:42:GLU:HB3	3:O:302:LYS:CB	2.48	0.43
3:O:307:ALA:HA	3:O:382:ILE:HG12	2.01	0.43
4:Q:31:MET:O	4:Q:32:VAL:C	2.60	0.43
4:Q:32:VAL:HG12	4:Q:33:ARG:N	2.33	0.43
3:R:241:CYS:O	3:R:255:PHE:CB	2.57	0.43
3:R:247:PHE:HB2	3:R:248:GLU:H	1.62	0.43
4:T:87:TYR:O	4:T:90:LEU:HB2	2.19	0.43
3:V:307:ALA:HA	3:V:382:ILE:HG12	2.01	0.43
4:X:61:ARG:C	4:X:62:TYR:HD1	2.27	0.43
1:A:160:CYS:O	1:A:164:VAL:HG23	2.18	0.43
1:A:329:LEU:O	1:A:332:LEU:CB	2.67	0.43
1:A:377:ASN:O	1:A:378:ILE:C	2.61	0.43
1:A:463:ILE:HG13	1:A:463:ILE:H	1.56	0.43
1:A:508:ILE:N	1:A:508:ILE:CD1	2.82	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:564:VAL:O	1:A:565:GLU:C	2.61	0.43
2:B:174:PRO:O	2:B:175:MET:C	2.62	0.43
2:B:413:VAL:HG12	2:B:414:ILE:N	2.34	0.43
1:C:31:CYS:HA	1:C:34:ILE:HB	2.00	0.43
1:C:126:LEU:HD22	1:C:160:CYS:SG	2.59	0.43
1:C:222:ILE:O	1:C:223:LEU:C	2.62	0.43
1:C:416:ARG:CD	1:C:454:TYR:CE1	2.96	0.43
1:C:434:ARG:HE	1:C:434:ARG:HB3	1.63	0.43
1:C:565:GLU:O	1:C:566:TYR:C	2.62	0.43
2:D:360:GLU:O	2:D:363:THR:HB	2.17	0.43
2:D:487:ALA:HA	2:D:490:LYS:HD2	2.00	0.43
2:D:567:ILE:HA	2:D:572:SER:OG	2.17	0.43
1:E:8:ARG:HD2	3:M:337:GLU:HB3	1.99	0.43
1:E:11:ILE:O	1:E:13:THR:N	2.52	0.43
1:E:135:CYS:O	1:E:139:ALA:HB2	2.19	0.43
1:E:329:LEU:O	1:E:332:LEU:CB	2.67	0.43
1:E:434:ARG:HE	1:E:434:ARG:HB3	1.63	0.43
1:E:455:THR:C	1:E:457:GLN:N	2.75	0.43
1:E:559:LEU:O	1:E:560:GLN:C	2.61	0.43
1:E:572:LYS:HG2	1:E:573:TYR:CE1	2.53	0.43
1:E:573:TYR:O	1:E:574:ASP:O	2.37	0.43
2:F:148:LEU:CA	2:F:151:ILE:HG13	2.49	0.43
2:F:256:VAL:O	2:F:259:ALA:HB3	2.19	0.43
2:F:411:ILE:H	2:F:411:ILE:HD12	1.83	0.43
2:F:429:ILE:O	2:F:430:ALA:C	2.61	0.43
1:G:14:ILE:HG22	1:G:14:ILE:O	2.18	0.43
1:G:101:LEU:O	1:G:104:THR:HB	2.19	0.43
1:G:181:ASN:O	1:G:182:LEU:C	2.62	0.43
1:G:377:ASN:O	1:G:378:ILE:C	2.61	0.43
1:G:557:VAL:HG21	2:H:415:LYS:NZ	2.33	0.43
1:I:135:CYS:O	1:I:139:ALA:HB2	2.19	0.43
1:I:222:ILE:O	1:I:223:LEU:C	2.62	0.43
1:I:232:SER:O	1:I:235:HIS:N	2.49	0.43
1:I:419:ILE:O	1:I:423:MET:HG3	2.18	0.43
1:I:484:GLY:O	1:I:485:ASP:C	2.61	0.43
2:J:188:ALA:O	2:J:189:GLU:C	2.61	0.43
2:J:313:ARG:HB2	2:J:316:ILE:HD11	1.99	0.43
2:J:317:LEU:C	2:J:319:HIS:N	2.76	0.43
2:J:404:ASN:O	2:J:407:VAL:HB	2.19	0.43
1:K:19:THR:O	1:K:22:GLU:HB3	2.19	0.43
1:K:436:ASP:O	1:K:439:PRO:HD2	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:441:LEU:HD23	1:K:441:LEU:O	2.17	0.43
2:L:87:ALA:O	2:L:90:THR:HB	2.18	0.43
2:L:174:PRO:O	2:L:175:MET:C	2.62	0.43
2:L:324:PHE:CD2	2:L:341:ILE:HG21	2.52	0.43
2:L:494:LYS:HA	2:L:494:LYS:HD2	1.75	0.43
3:M:86:LYS:O	3:M:89:GLN:CB	2.64	0.43
3:M:215:ASN:HD22	3:M:390:ILE:C	2.26	0.43
3:N:8:VAL:HG22	3:N:67:LEU:CD1	2.48	0.43
3:N:56:ARG:C	3:N:57:PHE:CD1	2.97	0.43
3:N:356:MET:SD	3:N:357:ARG:N	2.92	0.43
3:P:22:ARG:CG	3:P:23:GLY:N	2.76	0.43
3:P:87:VAL:O	3:P:88:VAL:C	2.60	0.43
4:Q:70:ALA:O	4:Q:71:ILE:HD13	2.18	0.43
4:Q:80:THR:O	4:Q:83:LEU:N	2.47	0.43
3:R:183:VAL:HB	3:R:420:LEU:HD22	2.01	0.43
4:T:31:MET:O	4:T:32:VAL:C	2.60	0.43
4:T:135:ILE:HD12	4:T:135:ILE:HA	1.90	0.43
3:V:56:ARG:C	3:V:57:PHE:CD1	2.97	0.43
3:V:214:LEU:HD23	3:V:214:LEU:HA	1.82	0.43
3:V:256:ILE:HA	3:V:257:PRO:HD3	1.62	0.43
3:V:376:ILE:HG23	3:V:376:ILE:O	2.18	0.43
4:W:84:ILE:C	4:W:86:ARG:N	2.72	0.43
4:W:101:LEU:O	4:W:102:ASP:C	2.62	0.43
4:X:25:ASP:O	4:X:26:LYS:C	2.59	0.43
1:A:19:THR:HG21	3:M:142:LEU:HD21	2.01	0.43
1:A:51:ALA:HA	1:A:54:LEU:HD12	1.99	0.43
1:A:73:LEU:O	1:A:75:ALA:N	2.52	0.43
1:A:126:LEU:HD22	1:A:160:CYS:SG	2.59	0.43
1:A:133:GLU:CD	1:A:133:GLU:H	2.27	0.43
1:A:181:ASN:O	1:A:182:LEU:C	2.62	0.43
1:A:375:GLY:O	1:A:377:ASN:N	2.51	0.43
2:B:55:VAL:O	2:B:58:MET:CB	2.60	0.43
2:B:135:PRO:O	2:B:136:TYR:C	2.61	0.43
2:B:158:ASP:C	2:B:160:GLY:H	2.25	0.43
2:B:173:ASN:O	2:B:174:PRO:C	2.59	0.43
2:B:367:VAL:O	2:B:369:PHE:N	2.52	0.43
2:B:437:ASP:C	2:B:439:ASP:N	2.76	0.43
2:B:473:PHE:O	2:B:475:ASP:OD1	2.37	0.43
1:C:172:MET:HB2	1:C:201:MET:CE	2.46	0.43
1:C:396:PHE:N	1:C:396:PHE:HD1	2.17	0.43
1:C:506:LEU:O	1:C:508:ILE:N	2.52	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:148:LEU:N	2:D:148:LEU:CD1	2.80	0.43
2:D:164:THR:O	2:D:165:LEU:C	2.62	0.43
2:D:317:LEU:C	2:D:319:HIS:N	2.76	0.43
2:D:384:VAL:O	2:D:387:SER:OG	2.27	0.43
2:D:430:ALA:C	2:D:432:LEU:N	2.73	0.43
1:E:44:THR:O	1:E:45:TYR:CB	2.65	0.43
1:E:68:LEU:C	1:E:70:CYS:N	2.77	0.43
1:E:133:GLU:CD	1:E:133:GLU:H	2.27	0.43
1:E:269:ASP:O	1:E:270:ILE:C	2.62	0.43
2:F:51:PHE:O	2:F:52:PRO:C	2.61	0.43
2:F:164:THR:O	2:F:165:LEU:C	2.62	0.43
2:F:418:PHE:HE1	2:F:425:TYR:HB2	1.82	0.43
2:F:553:ASP:O	2:F:554:LEU:HB2	2.18	0.43
1:G:269:ASP:O	1:G:270:ILE:C	2.62	0.43
1:G:422:ILE:CG2	1:G:441:LEU:HD12	2.48	0.43
1:G:463:ILE:CD1	1:G:476:ALA:CB	2.96	0.43
2:H:256:VAL:O	2:H:259:ALA:HB3	2.19	0.43
2:H:491:LEU:CD1	2:H:499:THR:HG22	2.49	0.43
1:I:46:ARG:HH21	1:I:69:GLU:HG3	1.83	0.43
1:I:135:CYS:O	1:I:136:ARG:C	2.60	0.43
1:I:135:CYS:C	1:I:137:ASP:N	2.75	0.43
1:I:207:ASP:O	1:I:208:MET:C	2.61	0.43
1:I:214:LYS:O	1:I:217:PRO:HD2	2.19	0.43
1:I:358:ASP:HB3	1:I:361:ILE:CD1	2.38	0.43
1:I:436:ASP:O	1:I:439:PRO:HD2	2.19	0.43
2:J:56:ASN:N	2:J:56:ASN:ND2	2.65	0.43
2:J:122:LEU:C	2:J:125:PRO:HD2	2.42	0.43
2:J:148:LEU:CA	2:J:151:ILE:HG13	2.49	0.43
2:J:387:SER:HB2	2:J:390:ARG:HD3	2.00	0.43
2:J:420:LYS:C	2:J:421:TYR:CD2	2.85	0.43
2:L:217:TRP:NE1	3:V:123:PRO:HB2	2.34	0.43
2:L:299:GLN:O	2:L:300:TYR:O	2.36	0.43
2:L:426:GLU:O	2:L:429:ILE:N	2.28	0.43
2:L:483:GLN:O	2:L:487:ALA:N	2.45	0.43
3:M:143:GLU:O	3:M:143:GLU:HG3	2.19	0.43
3:O:143:GLU:O	3:O:143:GLU:HG3	2.19	0.43
4:Q:131:VAL:HG12	4:Q:132:LEU:N	2.34	0.43
3:R:118:MET:CB	3:R:123:PRO:HA	2.41	0.43
3:R:307:ALA:HA	3:R:382:ILE:HG12	2.01	0.43
4:S:107:PHE:HD2	4:S:107:PHE:N	2.16	0.43
4:T:117:PHE:O	4:T:117:PHE:CD1	2.72	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:U:70:ALA:O	4:U:71:ILE:HD13	2.19	0.43
4:U:117:PHE:O	4:U:117:PHE:CD1	2.72	0.43
3:V:67:LEU:HD12	3:V:67:LEU:HA	1.74	0.43
1:A:19:THR:O	1:A:22:GLU:HB3	2.19	0.43
1:A:416:ARG:HD3	1:A:454:TYR:HE1	1.82	0.43
1:A:500:VAL:O	1:A:500:VAL:HG22	2.18	0.43
1:A:506:LEU:O	1:A:508:ILE:N	2.52	0.43
2:B:74:MET:O	2:B:75:ASN:C	2.59	0.43
2:B:164:THR:O	2:B:165:LEU:C	2.62	0.43
2:B:244:VAL:O	2:B:247:ARG:HB2	2.19	0.43
2:B:393:SER:O	2:B:397:ASP:HB2	2.19	0.43
1:C:135:CYS:C	1:C:137:ASP:N	2.75	0.43
1:C:232:SER:HA	1:C:233:PRO:HD3	1.71	0.43
1:C:382:MET:CE	1:C:404:ILE:HG23	2.49	0.43
1:C:416:ARG:HD3	1:C:454:TYR:HE1	1.82	0.43
1:C:547:VAL:O	1:C:548:VAL:C	2.62	0.43
2:D:148:LEU:CA	2:D:151:ILE:HG13	2.49	0.43
2:D:347:SER:O	2:D:350:ASN:HB2	2.19	0.43
2:D:378:GLY:C	2:D:380:CYS:N	2.75	0.43
2:D:413:VAL:HG12	2:D:414:ILE:N	2.34	0.43
2:D:565:CYS:HB2	2:D:566:TYR:HD1	1.82	0.43
1:E:5:ILE:O	1:E:52:LYS:NZ	2.46	0.43
1:E:45:TYR:O	1:E:46:ARG:C	2.62	0.43
1:E:54:LEU:HD23	1:E:54:LEU:HA	1.88	0.43
1:E:375:GLY:O	1:E:377:ASN:N	2.51	0.43
1:E:457:GLN:O	1:E:460:TYR:HB3	2.19	0.43
1:E:460:TYR:O	1:E:464:LEU:HD23	2.18	0.43
1:E:502:GLU:HG3	1:E:537:PHE:CE2	2.52	0.43
1:E:519:THR:CG2	1:E:521:VAL:HG12	2.49	0.43
2:F:155:MET:H	2:F:158:ASP:CB	2.29	0.43
2:F:413:VAL:HG12	2:F:414:ILE:N	2.34	0.43
2:F:570:LEU:HG	3:O:75:ALA:N	2.33	0.43
2:F:570:LEU:CD2	3:O:77:VAL:HG22	2.47	0.43
1:G:126:LEU:HD22	1:G:160:CYS:SG	2.59	0.43
1:G:137:ASP:CB	1:G:138:LEU:HD22	2.49	0.43
1:G:359:VAL:O	1:G:360:SER:C	2.60	0.43
1:G:360:SER:O	1:G:361:ILE:C	2.62	0.43
1:G:413:PRO:HG2	1:G:414:SER:H	1.84	0.43
2:H:51:PHE:O	2:H:52:PRO:C	2.61	0.43
2:H:188:ALA:O	2:H:189:GLU:C	2.60	0.43
1:I:6:ARG:O	1:I:7:LEU:C	2.61	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:46:ARG:HE	1:I:69:GLU:HG3	1.83	0.43
1:I:269:ASP:O	1:I:270:ILE:C	2.62	0.43
1:I:441:LEU:HD23	1:I:441:LEU:O	2.17	0.43
1:I:508:ILE:N	1:I:508:ILE:CD1	2.82	0.43
2:J:88:VAL:O	2:J:91:PHE:N	2.50	0.43
2:J:255:VAL:HG23	2:J:256:VAL:HG23	2.01	0.43
2:J:304:ARG:HG2	2:J:573:VAL:CA	2.47	0.43
2:J:360:GLU:O	2:J:363:THR:HB	2.17	0.43
2:J:413:VAL:HG12	2:J:414:ILE:N	2.34	0.43
2:J:428:VAL:HG23	2:J:429:ILE:HD12	2.01	0.43
2:J:527:TRP:HA	2:J:527:TRP:HE3	1.84	0.43
1:K:214:LYS:O	1:K:217:PRO:HD2	2.19	0.43
1:K:257:GLY:HA3	1:K:299:ILE:HD13	2.00	0.43
1:K:441:LEU:C	1:K:441:LEU:CD2	2.88	0.43
1:K:519:THR:CG2	1:K:521:VAL:HG12	2.49	0.43
1:K:564:VAL:O	1:K:565:GLU:C	2.61	0.43
2:L:135:PRO:O	2:L:136:TYR:C	2.61	0.43
2:L:244:VAL:O	2:L:247:ARG:HB2	2.19	0.43
2:L:452:VAL:HG11	2:L:466:LEU:HD11	2.01	0.43
3:M:214:LEU:HD23	3:M:214:LEU:HA	1.82	0.43
3:M:285:LYS:O	3:M:286:HIS:CB	2.63	0.43
3:M:329:VAL:CG1	3:M:330:GLY:N	2.81	0.43
3:N:384:TYR:N	3:N:384:TYR:HD2	2.15	0.43
3:O:91:PHE:O	3:O:93:GLU:N	2.52	0.43
3:O:184:SER:C	3:O:186:ASN:N	2.77	0.43
3:O:207:MET:N	3:O:208:PRO:HD3	2.34	0.43
4:Q:117:PHE:O	4:Q:117:PHE:CD1	2.72	0.43
4:U:107:PHE:HD2	4:U:107:PHE:N	2.16	0.43
3:V:2:SER:O	3:V:71:SER:HB2	2.19	0.43
3:V:87:VAL:O	3:V:88:VAL:C	2.60	0.43
3:V:162:GLU:CG	3:V:163:GLY:H	2.31	0.43
4:W:79:ILE:CG2	4:W:80:THR:H	2.32	0.43
4:X:117:PHE:O	4:X:117:PHE:CD1	2.72	0.43
1:A:232:SER:O	1:A:235:HIS:N	2.49	0.42
1:A:441:LEU:HD23	1:A:441:LEU:O	2.17	0.42
1:A:457:GLN:O	1:A:460:TYR:HB3	2.19	0.42
2:B:16:PHE:HZ	3:N:416:GLY:CA	2.32	0.42
2:B:299:GLN:O	2:B:300:TYR:O	2.36	0.42
2:B:347:SER:O	2:B:350:ASN:HB2	2.19	0.42
2:B:373:ALA:O	2:B:376:ALA:CB	2.63	0.42
2:B:387:SER:HB2	2:B:390:ARG:HD3	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:452:VAL:HG11	2:B:466:LEU:HD11	2.01	0.42
2:B:524:TYR:O	2:B:527:TRP:N	2.52	0.42
1:C:19:THR:HG21	3:N:142:LEU:HD21	2.01	0.42
1:C:187:ASN:HD22	1:C:187:ASN:C	2.19	0.42
1:C:271:LEU:O	1:C:274:VAL:HB	2.18	0.42
1:C:299:ILE:HG22	1:C:300:LYS:N	2.34	0.42
1:C:377:ASN:O	1:C:378:ILE:C	2.61	0.42
1:C:457:GLN:O	1:C:460:TYR:HB3	2.19	0.42
2:D:104:ALA:O	2:D:107:VAL:HB	2.19	0.42
2:D:355:LEU:O	2:D:357:GLU:N	2.52	0.42
2:D:449:ILE:O	2:D:451:ILE:N	2.52	0.42
1:E:14:ILE:HG22	1:E:14:ILE:O	2.18	0.42
1:E:19:THR:O	1:E:22:GLU:HB3	2.19	0.42
1:E:48:ARG:O	1:E:51:ALA:HB3	2.18	0.42
1:E:363:ARG:O	1:E:366:MET:HB3	2.19	0.42
1:E:406:LEU:HD23	1:E:406:LEU:HA	1.81	0.42
1:E:547:VAL:O	1:E:548:VAL:C	2.62	0.42
2:F:495:LYS:N	2:F:496:PRO:CD	2.81	0.42
1:G:133:GLU:CD	1:G:133:GLU:H	2.27	0.42
1:G:174:MET:C	1:G:177:PRO:HD2	2.44	0.42
1:G:198:LEU:O	1:G:199:THR:C	2.62	0.42
1:G:382:MET:CE	1:G:404:ILE:HG23	2.49	0.42
2:H:85:ILE:H	2:H:85:ILE:HG13	1.66	0.42
2:H:244:VAL:O	2:H:247:ARG:HB2	2.19	0.42
2:H:297:GLU:CD	3:P:60:ILE:HG22	2.43	0.42
2:H:330:ASP:O	2:H:335:LYS:HE3	2.19	0.42
2:H:391:CYS:O	2:H:394:THR:N	2.50	0.42
2:H:400:GLN:HA	2:H:400:GLN:NE2	2.34	0.42
2:H:571:ALA:C	2:H:573:VAL:N	2.76	0.42
1:I:10:LEU:HD12	1:I:14:ILE:HD11	2.00	0.42
1:I:44:THR:O	1:I:45:TYR:CB	2.65	0.42
1:I:137:ASP:CB	1:I:138:LEU:HD22	2.49	0.42
1:I:160:CYS:O	1:I:164:VAL:HG23	2.18	0.42
1:I:183:LEU:HD23	1:I:183:LEU:HA	1.63	0.42
1:I:417:TRP:CE2	1:I:421:THR:HG21	2.54	0.42
1:I:576:MET:O	1:I:577:ARG:C	2.61	0.42
2:J:75:ASN:C	2:J:77:ALA:H	2.27	0.42
2:J:348:GLN:C	2:J:350:ASN:N	2.77	0.42
2:J:393:SER:O	2:J:397:ASP:HB2	2.19	0.42
2:J:449:ILE:O	2:J:451:ILE:N	2.52	0.42
1:K:10:LEU:HD12	1:K:14:ILE:HD11	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:68:LEU:HD23	1:K:68:LEU:H	1.84	0.42
1:K:73:LEU:O	1:K:75:ALA:N	2.52	0.42
1:K:133:GLU:CD	1:K:133:GLU:H	2.27	0.42
1:K:143:GLU:O	1:K:144:LYS:C	2.61	0.42
1:K:211:HIS:O	1:K:212:PHE:C	2.62	0.42
1:K:261:ASP:O	1:K:262:ASP:C	2.60	0.42
1:K:417:TRP:CE2	1:K:421:THR:HG21	2.54	0.42
1:K:572:LYS:HG2	1:K:573:TYR:CE1	2.53	0.42
2:L:99:ASN:HA	2:L:100:PRO:HD2	1.76	0.42
2:L:361:TYR:O	2:L:362:ALA:C	2.62	0.42
2:L:404:ASN:O	2:L:407:VAL:HB	2.19	0.42
2:L:486:THR:O	2:L:487:ALA:C	2.61	0.42
3:M:8:VAL:HG22	3:M:67:LEU:CD1	2.48	0.42
3:M:307:ALA:HA	3:M:382:ILE:HG12	2.01	0.42
3:N:2:SER:O	3:N:71:SER:HB2	2.19	0.42
3:N:118:MET:HA	3:N:123:PRO:HA	2.01	0.42
3:N:133:GLU:OE2	3:N:134:PHE:HE1	2.02	0.42
3:N:277:ILE:O	3:N:277:ILE:HG22	2.18	0.42
3:P:277:ILE:O	3:P:277:ILE:HG22	2.18	0.42
3:P:328:THR:HB	3:P:329:VAL:HG23	2.01	0.42
4:Q:10:ARG:HB3	4:Q:11:GLN:OE1	2.19	0.42
4:Q:61:ARG:C	4:Q:62:TYR:HD1	2.27	0.42
4:Q:114:LEU:O	4:Q:117:PHE:N	2.44	0.42
3:R:4:SER:OG	3:R:22:ARG:HD3	2.19	0.42
3:R:43:GLU:O	3:R:45:MET:N	2.51	0.42
3:R:207:MET:N	3:R:208:PRO:HD3	2.34	0.42
3:R:356:MET:SD	3:R:357:ARG:N	2.92	0.42
4:S:117:PHE:O	4:S:117:PHE:CD1	2.72	0.42
3:V:133:GLU:OE2	3:V:134:PHE:HE1	2.02	0.42
4:X:28:ARG:O	4:X:32:VAL:HG23	2.19	0.42
1:A:35:ARG:C	1:A:37:SER:H	2.27	0.42
1:A:413:PRO:HG2	1:A:414:SER:H	1.84	0.42
1:A:460:TYR:O	1:A:464:LEU:HD23	2.19	0.42
2:B:387:SER:O	2:B:390:ARG:HB2	2.19	0.42
2:B:582:VAL:O	2:B:583:GLU:C	2.62	0.42
1:C:214:LYS:O	1:C:217:PRO:HD2	2.19	0.42
2:D:38:ILE:HD13	2:D:38:ILE:N	2.31	0.42
2:D:301:VAL:O	2:D:302:PRO:C	2.62	0.42
2:D:371:ARG:O	2:D:372:LYS:C	2.60	0.42
2:D:411:ILE:H	2:D:411:ILE:HD12	1.84	0.42
2:D:577:PRO:HA	2:D:578:PRO:HD3	1.89	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:126:LEU:HD22	1:E:160:CYS:SG	2.59	0.42
1:E:271:LEU:O	1:E:274:VAL:HB	2.18	0.42
2:F:323:VAL:CG2	2:F:324:PHE:N	2.82	0.42
1:G:74:ILE:CG2	1:G:86:TYR:HE1	2.22	0.42
1:G:323:ASN:O	1:G:326:TYR:N	2.45	0.42
2:H:393:SER:O	2:H:397:ASP:HB2	2.19	0.42
1:I:101:LEU:O	1:I:104:THR:HB	2.19	0.42
1:I:143:GLU:O	1:I:144:LYS:C	2.61	0.42
1:I:174:MET:C	1:I:177:PRO:HD2	2.44	0.42
1:I:490:GLY:O	1:I:492:CYS:N	2.53	0.42
2:J:165:LEU:O	2:J:169:ILE:N	2.49	0.42
2:J:323:VAL:CG2	2:J:324:PHE:HD1	2.17	0.42
2:J:366:ASP:OD1	2:J:366:ASP:C	2.61	0.42
2:J:387:SER:O	2:J:390:ARG:HB2	2.19	0.42
1:K:68:LEU:C	1:K:70:CYS:N	2.77	0.42
1:K:350:ILE:O	1:K:351:VAL:C	2.62	0.42
1:K:382:MET:CE	1:K:404:ILE:HG23	2.49	0.42
1:K:500:VAL:O	1:K:500:VAL:HG22	2.18	0.42
1:K:506:LEU:O	1:K:508:ILE:N	2.52	0.42
2:L:49:ALA:O	2:L:50:LEU:C	2.62	0.42
2:L:164:THR:O	2:L:165:LEU:C	2.62	0.42
2:L:428:VAL:HG23	2:L:429:ILE:HD12	2.01	0.42
2:L:449:ILE:O	2:L:451:ILE:N	2.52	0.42
2:L:483:GLN:OE1	2:L:483:GLN:N	2.49	0.42
2:L:571:ALA:C	2:L:573:VAL:N	2.76	0.42
3:M:108:VAL:O	3:M:111:TYR:N	2.52	0.42
3:M:186:ASN:O	3:M:187:GLY:C	2.63	0.42
3:N:143:GLU:O	3:N:143:GLU:HG3	2.19	0.42
3:N:183:VAL:HB	3:N:420:LEU:HD22	2.01	0.42
3:N:210:LEU:HD22	3:N:210:LEU:HA	1.87	0.42
3:N:314:ILE:HA	3:N:315:PRO:HD3	1.83	0.42
3:N:384:TYR:HD2	3:N:384:TYR:H	1.67	0.42
3:O:108:VAL:O	3:O:111:TYR:N	2.52	0.42
3:O:329:VAL:CG1	3:O:330:GLY:N	2.81	0.42
3:P:4:SER:OG	3:P:22:ARG:HD3	2.19	0.42
4:S:32:VAL:HG12	4:S:33:ARG:N	2.33	0.42
4:S:101:LEU:O	4:S:102:ASP:C	2.62	0.42
4:T:101:LEU:O	4:T:102:ASP:C	2.62	0.42
4:U:87:TYR:O	4:U:90:LEU:HB2	2.19	0.42
3:V:192:SER:OG	3:V:271:THR:O	2.33	0.42
3:V:314:ILE:HA	3:V:315:PRO:HD3	1.83	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:6:ARG:O	1:A:7:LEU:C	2.61	0.42
1:A:135:CYS:C	1:A:137:ASP:N	2.75	0.42
1:A:174:MET:C	1:A:177:PRO:HD2	2.44	0.42
1:A:211:HIS:O	1:A:212:PHE:C	2.62	0.42
1:A:305:LEU:O	1:A:306:ARG:C	2.59	0.42
2:B:361:TYR:O	2:B:362:ALA:C	2.62	0.42
1:C:137:ASP:CB	1:C:138:LEU:HD22	2.49	0.42
1:C:181:ASN:O	1:C:182:LEU:C	2.62	0.42
1:C:198:LEU:O	1:C:199:THR:C	2.62	0.42
1:C:363:ARG:O	1:C:366:MET:HB3	2.19	0.42
2:D:87:ALA:O	2:D:90:THR:HB	2.18	0.42
2:D:244:VAL:O	2:D:247:ARG:HB2	2.19	0.42
2:D:452:VAL:HG13	2:D:453:GLY:H	1.80	0.42
2:D:473:PHE:O	2:D:475:ASP:OD1	2.37	0.42
1:E:101:LEU:O	1:E:104:THR:HB	2.19	0.42
1:E:286:ASN:O	1:E:287:ALA:C	2.59	0.42
1:E:389:LEU:HD13	1:E:400:CYS:HB3	2.02	0.42
2:F:75:ASN:C	2:F:77:ALA:H	2.27	0.42
2:F:174:PRO:O	2:F:175:MET:C	2.62	0.42
2:F:344:ARG:O	2:F:345:LEU:HD23	2.20	0.42
1:G:281:SER:OG	1:G:282:LYS:N	2.50	0.42
1:G:438:VAL:CB	1:G:439:PRO:HD3	2.28	0.42
1:G:489:SER:N	1:G:500:VAL:CG1	2.74	0.42
1:G:555:ILE:H	1:G:555:ILE:HG13	1.51	0.42
2:H:164:THR:O	2:H:165:LEU:C	2.62	0.42
2:H:413:VAL:HG12	2:H:414:ILE:N	2.34	0.42
2:H:494:LYS:HD2	2:H:494:LYS:HA	1.75	0.42
1:I:339:ASP:O	1:I:342:ALA:HB3	2.19	0.42
1:I:413:PRO:HG2	1:I:414:SER:H	1.84	0.42
1:I:443:GLN:O	1:I:446:THR:HG23	2.20	0.42
1:I:565:GLU:O	1:I:566:TYR:C	2.62	0.42
2:J:309:ILE:HG22	2:J:310:VAL:N	2.33	0.42
2:J:452:VAL:HG13	2:J:453:GLY:H	1.80	0.42
2:J:478:THR:CA	2:J:481:GLN:HE21	2.18	0.42
2:J:553:ASP:O	2:J:554:LEU:HB2	2.18	0.42
1:K:126:LEU:HD22	1:K:160:CYS:SG	2.59	0.42
1:K:463:ILE:HG13	1:K:463:ILE:H	1.56	0.42
1:K:490:GLY:O	1:K:492:CYS:N	2.53	0.42
2:L:344:ARG:O	2:L:345:LEU:HD23	2.20	0.42
2:L:393:SER:O	2:L:397:ASP:HB2	2.19	0.42
2:L:400:GLN:HA	2:L:400:GLN:NE2	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:411:ILE:HG13	2:L:432:LEU:HD11	2.02	0.42
2:L:415:LYS:O	2:L:416:ASP:C	2.60	0.42
3:M:91:PHE:O	3:M:93:GLU:N	2.52	0.42
3:N:207:MET:N	3:N:208:PRO:HD3	2.34	0.42
3:N:322:SER:HA	3:N:323:PRO:HD3	1.78	0.42
3:O:118:MET:HA	3:O:123:PRO:HA	2.01	0.42
3:O:177:GLU:OE2	3:O:388:SER:HB3	2.18	0.42
3:O:202:VAL:CG1	3:O:203:PHE:N	2.82	0.42
3:P:314:ILE:HG12	3:P:376:ILE:CD1	2.50	0.42
3:R:285:LYS:O	3:R:286:HIS:CB	2.64	0.42
4:S:61:ARG:C	4:S:62:TYR:HD1	2.27	0.42
4:T:28:ARG:O	4:T:32:VAL:HG23	2.19	0.42
4:U:10:ARG:HB3	4:U:11:GLN:OE1	2.20	0.42
4:U:31:MET:O	4:U:32:VAL:C	2.60	0.42
4:U:78:LEU:O	4:U:79:ILE:C	2.60	0.42
3:V:177:GLU:OE2	3:V:388:SER:HB3	2.18	0.42
4:X:70:ALA:O	4:X:71:ILE:HD13	2.19	0.42
1:A:137:ASP:CB	1:A:138:LEU:HD22	2.49	0.42
1:A:222:ILE:O	1:A:223:LEU:C	2.62	0.42
1:A:271:LEU:O	1:A:274:VAL:HB	2.18	0.42
1:A:281:SER:OG	1:A:282:LYS:N	2.50	0.42
2:B:5:LYS:HE3	3:N:201:ARG:NH1	2.34	0.42
2:B:217:TRP:NE1	3:M:123:PRO:HB2	2.34	0.42
2:B:374:VAL:O	2:B:377:ILE:N	2.53	0.42
2:B:428:VAL:HG23	2:B:429:ILE:HD12	2.01	0.42
2:B:430:ALA:C	2:B:432:LEU:N	2.73	0.42
1:C:28:GLN:O	1:C:32:ALA:HB2	2.20	0.42
1:C:45:TYR:O	1:C:46:ARG:C	2.62	0.42
1:C:73:LEU:O	1:C:75:ALA:N	2.52	0.42
1:C:183:LEU:HD23	1:C:183:LEU:HA	1.63	0.42
1:C:353:CYS:O	1:C:354:LEU:C	2.63	0.42
1:C:360:SER:O	1:C:361:ILE:C	2.62	0.42
1:C:451:MET:HE2	1:C:451:MET:N	2.30	0.42
2:D:88:VAL:O	2:D:91:PHE:N	2.50	0.42
2:D:216:GLU:CD	2:D:217:TRP:HZ3	2.28	0.42
2:D:255:VAL:HG23	2:D:256:VAL:HG23	2.01	0.42
2:D:341:ILE:N	2:D:341:ILE:HD12	2.35	0.42
2:D:400:GLN:HA	2:D:400:GLN:NE2	2.34	0.42
2:D:404:ASN:O	2:D:407:VAL:HB	2.19	0.42
1:E:73:LEU:O	1:E:75:ALA:N	2.52	0.42
1:E:174:MET:C	1:E:177:PRO:HD2	2.44	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:417:TRP:CE2	1:E:421:THR:HG21	2.54	0.42
2:F:355:LEU:O	2:F:357:GLU:N	2.52	0.42
2:F:400:GLN:HA	2:F:400:GLN:NE2	2.34	0.42
2:F:428:VAL:HG23	2:F:429:ILE:HD12	2.01	0.42
2:F:536:ALA:O	2:F:537:ALA:C	2.62	0.42
1:G:143:GLU:O	1:G:144:LYS:C	2.61	0.42
1:G:214:LYS:O	1:G:217:PRO:HD2	2.19	0.42
1:G:343:VAL:O	1:G:344:GLN:C	2.61	0.42
1:G:414:SER:HA	1:G:415:LYS:HZ1	1.83	0.42
1:G:417:TRP:CE2	1:G:421:THR:HG21	2.54	0.42
1:G:573:TYR:O	1:G:574:ASP:O	2.37	0.42
2:H:165:LEU:O	2:H:169:ILE:N	2.49	0.42
2:H:262:VAL:O	2:H:263:LEU:C	2.63	0.42
2:H:347:SER:O	2:H:350:ASN:HB2	2.19	0.42
2:H:387:SER:O	2:H:390:ARG:HB2	2.19	0.42
2:H:433:CYS:O	2:H:435:ASN:N	2.53	0.42
2:H:536:ALA:O	2:H:537:ALA:C	2.62	0.42
1:I:126:LEU:HD22	1:I:160:CYS:SG	2.59	0.42
1:I:152:TYR:O	1:I:155:LYS:HE2	2.19	0.42
1:I:257:GLY:HA3	1:I:299:ILE:HD13	2.00	0.42
1:I:360:SER:O	1:I:361:ILE:C	2.62	0.42
2:J:74:MET:O	2:J:77:ALA:HB2	2.20	0.42
2:J:87:ALA:O	2:J:90:THR:HB	2.18	0.42
2:J:491:LEU:CD1	2:J:499:THR:HG22	2.49	0.42
2:J:524:TYR:O	2:J:527:TRP:N	2.52	0.42
1:K:6:ARG:CD	3:P:337:GLU:HG2	2.38	0.42
1:K:103:MET:O	1:K:107:ILE:HG12	2.18	0.42
1:K:137:ASP:CB	1:K:138:LEU:HD22	2.49	0.42
1:K:222:ILE:O	1:K:223:LEU:C	2.62	0.42
1:K:339:ASP:O	1:K:342:ALA:HB3	2.19	0.42
1:K:360:SER:O	1:K:361:ILE:C	2.62	0.42
1:K:457:GLN:O	1:K:460:TYR:HB3	2.19	0.42
1:K:470:GLN:CB	1:K:471:PRO:HD3	2.39	0.42
1:K:508:ILE:N	1:K:508:ILE:CD1	2.82	0.42
2:L:104:ALA:O	2:L:107:VAL:HB	2.19	0.42
2:L:216:GLU:CD	2:L:217:TRP:HZ3	2.28	0.42
2:L:256:VAL:O	2:L:259:ALA:HB3	2.19	0.42
2:L:347:SER:O	2:L:350:ASN:HB2	2.19	0.42
3:N:328:THR:HB	3:N:329:VAL:HG23	2.01	0.42
3:O:356:MET:SD	3:O:357:ARG:N	2.92	0.42
3:P:42:GLU:HB3	3:P:302:LYS:CB	2.48	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:P:103:ILE:O	3:P:105:ASP:N	2.53	0.42
3:P:118:MET:HA	3:P:123:PRO:HA	2.01	0.42
3:P:207:MET:N	3:P:208:PRO:HD3	2.34	0.42
3:P:256:ILE:HA	3:P:257:PRO:HD3	1.62	0.42
3:P:356:MET:SD	3:P:357:ARG:N	2.92	0.42
3:R:184:SER:C	3:R:186:ASN:N	2.77	0.42
3:R:202:VAL:CG1	3:R:203:PHE:N	2.82	0.42
4:S:131:VAL:HG12	4:S:132:LEU:N	2.34	0.42
4:T:61:ARG:C	4:T:62:TYR:HD1	2.27	0.42
4:U:28:ARG:O	4:U:32:VAL:HG23	2.19	0.42
3:V:94:TYR:HD2	3:V:94:TYR:HA	1.69	0.42
3:V:202:VAL:CG1	3:V:203:PHE:N	2.82	0.42
3:V:207:MET:N	3:V:208:PRO:HD3	2.34	0.42
3:V:343:TRP:CZ2	3:V:356:MET:HB2	2.51	0.42
4:W:87:TYR:CZ	4:W:91:LEU:HD11	2.54	0.42
4:W:90:LEU:CD2	4:W:90:LEU:N	2.79	0.42
4:W:113:ILE:O	4:W:114:LEU:C	2.62	0.42
1:A:10:LEU:HD12	1:A:14:ILE:HD11	2.00	0.42
1:A:28:GLN:O	1:A:32:ALA:HB2	2.20	0.42
1:A:38:PHE:N	1:A:38:PHE:CD2	2.86	0.42
1:A:43:ASN:N	1:A:43:ASN:ND2	2.66	0.42
1:A:282:LYS:O	1:A:283:ASN:C	2.63	0.42
2:B:75:ASN:C	2:B:77:ALA:H	2.27	0.42
2:B:148:LEU:CA	2:B:151:ILE:HG13	2.49	0.42
2:B:336:LEU:O	2:B:337:GLU:C	2.62	0.42
2:B:527:TRP:HA	2:B:527:TRP:HE3	1.84	0.42
1:C:11:ILE:O	1:C:13:THR:N	2.52	0.42
1:C:35:ARG:C	1:C:37:SER:H	2.27	0.42
1:C:269:ASP:O	1:C:270:ILE:C	2.62	0.42
1:C:282:LYS:O	1:C:283:ASN:C	2.63	0.42
1:C:287:ALA:HA	4:T:78:LEU:HD13	2.02	0.42
1:C:350:ILE:O	1:C:351:VAL:C	2.62	0.42
1:C:419:ILE:O	1:C:423:MET:HG3	2.19	0.42
1:C:500:VAL:O	1:C:500:VAL:HG22	2.18	0.42
2:D:75:ASN:C	2:D:77:ALA:H	2.27	0.42
1:E:159:LEU:O	1:E:162:VAL:CB	2.62	0.42
1:E:215:LEU:H	1:E:215:LEU:HG	1.53	0.42
1:E:281:SER:OG	1:E:282:LYS:N	2.50	0.42
1:E:306:ARG:HD3	1:E:339:ASP:OD1	2.20	0.42
1:E:416:ARG:CD	1:E:454:TYR:CE1	2.96	0.42
1:E:506:LEU:O	1:E:508:ILE:N	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:565:GLU:O	1:E:566:TYR:C	2.62	0.42
2:F:289:VAL:C	2:F:291:LEU:N	2.75	0.42
2:F:449:ILE:O	2:F:451:ILE:N	2.52	0.42
1:G:19:THR:O	1:G:22:GLU:HB3	2.19	0.42
1:G:135:CYS:C	1:G:137:ASP:N	2.75	0.42
1:G:256:LEU:C	1:G:258:ARG:H	2.28	0.42
1:G:389:LEU:HD13	1:G:400:CYS:HB3	2.02	0.42
2:H:148:LEU:N	2:H:148:LEU:CD1	2.80	0.42
2:H:309:ILE:HG22	2:H:310:VAL:N	2.33	0.42
2:H:437:ASP:C	2:H:439:ASP:N	2.76	0.42
2:H:449:ILE:O	2:H:451:ILE:N	2.52	0.42
1:I:68:LEU:C	1:I:70:CYS:N	2.77	0.42
1:I:350:ILE:O	1:I:351:VAL:C	2.62	0.42
1:I:372:LEU:H	1:I:372:LEU:CD1	2.31	0.42
1:I:389:LEU:HD13	1:I:400:CYS:HB3	2.02	0.42
1:I:457:GLN:O	1:I:460:TYR:HB3	2.19	0.42
1:I:470:GLN:CB	1:I:471:PRO:CD	2.97	0.42
2:J:135:PRO:O	2:J:136:TYR:C	2.61	0.42
2:J:347:SER:O	2:J:350:ASN:HB2	2.19	0.42
2:J:358:LEU:O	2:J:359:LYS:C	2.62	0.42
2:J:461:ASN:HB3	2:J:465:LEU:CD1	2.49	0.42
1:K:160:CYS:O	1:K:164:VAL:HG23	2.18	0.42
1:K:174:MET:C	1:K:177:PRO:HD2	2.44	0.42
1:K:235:HIS:O	1:K:236:ASP:C	2.61	0.42
1:K:455:THR:C	1:K:457:GLN:N	2.75	0.42
1:K:573:TYR:O	1:K:574:ASP:O	2.37	0.42
2:L:74:MET:O	2:L:77:ALA:HB2	2.20	0.42
2:L:330:ASP:O	2:L:335:LYS:HE3	2.19	0.42
2:L:473:PHE:O	2:L:475:ASP:OD1	2.37	0.42
2:L:524:TYR:O	2:L:527:TRP:N	2.52	0.42
2:L:536:ALA:O	2:L:537:ALA:C	2.62	0.42
3:M:43:GLU:O	3:M:45:MET:N	2.51	0.42
3:M:328:THR:HB	3:M:329:VAL:HG23	2.01	0.42
3:N:103:ILE:O	3:N:105:ASP:N	2.53	0.42
3:N:108:VAL:O	3:N:111:TYR:N	2.52	0.42
3:N:307:ALA:HA	3:N:382:ILE:HG12	2.01	0.42
3:O:4:SER:OG	3:O:22:ARG:HD3	2.19	0.42
3:P:192:SER:OG	3:P:271:THR:O	2.33	0.42
3:P:307:ALA:HA	3:P:382:ILE:HG12	2.01	0.42
3:R:91:PHE:O	3:R:93:GLU:N	2.52	0.42
4:S:87:TYR:O	4:S:90:LEU:HB2	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:T:16:LEU:C	4:T:16:LEU:CD1	2.79	0.42
4:U:114:LEU:O	4:U:115:ASP:C	2.62	0.42
3:V:108:VAL:O	3:V:109:ILE:C	2.61	0.42
3:V:186:ASN:O	3:V:187:GLY:C	2.63	0.42
4:W:10:ARG:HB3	4:W:11:GLN:OE1	2.19	0.42
4:W:61:ARG:C	4:W:62:TYR:HD1	2.27	0.42
4:W:87:TYR:O	4:W:90:LEU:HB2	2.19	0.42
4:W:114:LEU:O	4:W:115:ASP:C	2.62	0.42
1:A:45:TYR:O	1:A:46:ARG:C	2.62	0.42
1:A:214:LYS:O	1:A:217:PRO:HD2	2.19	0.42
1:A:287:ALA:HA	4:S:78:LEU:HD13	2.02	0.42
1:A:443:GLN:O	1:A:446:THR:HG23	2.20	0.42
2:B:256:VAL:O	2:B:259:ALA:HB3	2.19	0.42
2:B:429:ILE:O	2:B:430:ALA:C	2.61	0.42
2:B:449:ILE:O	2:B:451:ILE:N	2.52	0.42
1:C:101:LEU:O	1:C:104:THR:HB	2.19	0.42
1:C:131:SER:O	1:C:132:SER:O	2.38	0.42
1:C:133:GLU:CD	1:C:133:GLU:H	2.27	0.42
1:C:256:LEU:C	1:C:258:ARG:H	2.28	0.42
1:C:417:TRP:CE2	1:C:421:THR:HG21	2.54	0.42
2:D:146:ALA:O	2:D:147:LYS:C	2.63	0.42
2:D:162:LEU:HA	2:D:165:LEU:CD1	2.24	0.42
2:D:323:VAL:CG2	2:D:324:PHE:N	2.82	0.42
2:D:405:TYR:CE1	2:D:406:VAL:HG23	2.55	0.42
2:D:483:GLN:O	2:D:487:ALA:N	2.45	0.42
1:E:31:CYS:HA	1:E:34:ILE:HB	2.00	0.42
1:E:235:HIS:O	1:E:236:ASP:C	2.61	0.42
1:E:508:ILE:N	1:E:508:ILE:CD1	2.82	0.42
2:F:262:VAL:O	2:F:263:LEU:C	2.63	0.42
2:F:304:ARG:NE	2:F:573:VAL:O	2.42	0.42
2:F:341:ILE:N	2:F:341:ILE:HD12	2.35	0.42
2:F:347:SER:O	2:F:350:ASN:HB2	2.19	0.42
2:F:374:VAL:O	2:F:377:ILE:N	2.53	0.42
2:F:387:SER:O	2:F:390:ARG:HB2	2.20	0.42
2:F:411:ILE:HG13	2:F:432:LEU:HD11	2.02	0.42
2:F:433:CYS:O	2:F:435:ASN:N	2.53	0.42
2:F:494:LYS:HA	2:F:494:LYS:HD2	1.75	0.42
2:F:527:TRP:HA	2:F:527:TRP:HE3	1.84	0.42
1:G:45:TYR:O	1:G:46:ARG:C	2.62	0.42
1:G:172:MET:HB2	1:G:201:MET:CE	2.46	0.42
1:G:215:LEU:H	1:G:215:LEU:HG	1.53	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:350:ILE:O	1:G:351:VAL:C	2.62	0.42
1:G:457:GLN:O	1:G:460:TYR:HB3	2.19	0.42
1:G:484:GLY:O	1:G:485:ASP:C	2.61	0.42
1:G:547:VAL:O	1:G:548:VAL:C	2.62	0.42
2:H:81:PRO:O	2:H:82:ASP:C	2.61	0.42
2:H:216:GLU:CD	2:H:217:TRP:HZ3	2.28	0.42
2:H:344:ARG:O	2:H:345:LEU:HD23	2.20	0.42
2:H:350:ASN:O	2:H:351:ILE:C	2.63	0.42
2:H:428:VAL:HG23	2:H:429:ILE:HD12	2.01	0.42
2:H:553:ASP:O	2:H:554:LEU:HB2	2.19	0.42
1:I:181:ASN:O	1:I:182:LEU:C	2.62	0.42
1:I:306:ARG:HD3	1:I:339:ASP:OD1	2.20	0.42
2:J:344:ARG:O	2:J:345:LEU:HD23	2.20	0.42
2:J:400:GLN:HA	2:J:400:GLN:NE2	2.34	0.42
2:J:411:ILE:H	2:J:411:ILE:HD12	1.84	0.42
1:K:28:GLN:O	1:K:32:ALA:HB2	2.20	0.42
1:K:413:PRO:HG2	1:K:414:SER:H	1.84	0.42
2:L:350:ASN:O	2:L:351:ILE:C	2.63	0.42
2:L:461:ASN:HB3	2:L:465:LEU:CD1	2.49	0.42
3:M:2:SER:O	3:M:71:SER:HB2	2.19	0.42
3:M:118:MET:HA	3:M:123:PRO:HA	2.01	0.42
3:M:213:GLY:HA3	3:M:394:TYR:CZ	2.55	0.42
3:O:50:LEU:CD1	3:O:59:TRP:HE1	2.33	0.42
3:O:56:ARG:C	3:O:57:PHE:CD1	2.97	0.42
3:O:213:GLY:HA3	3:O:394:TYR:CZ	2.55	0.42
3:O:269:LEU:N	3:O:269:LEU:CD2	2.70	0.42
3:P:67:LEU:HD12	3:P:67:LEU:HA	1.73	0.42
3:P:374:PRO:HA	3:P:375:PRO:HD3	1.76	0.42
4:Q:79:ILE:CG2	4:Q:80:THR:H	2.32	0.42
4:Q:101:LEU:O	4:Q:102:ASP:C	2.62	0.42
3:R:118:MET:HA	3:R:123:PRO:HA	2.01	0.42
4:S:113:ILE:O	4:S:114:LEU:C	2.62	0.42
4:T:31:MET:HE3	4:T:53:ARG:NH1	2.35	0.42
3:V:91:PHE:O	3:V:93:GLU:N	2.52	0.42
3:V:241:CYS:O	3:V:255:PHE:CB	2.57	0.42
3:V:285:LYS:O	3:V:286:HIS:CB	2.63	0.42
3:V:384:TYR:HD2	3:V:384:TYR:H	1.67	0.42
3:V:390:ILE:HG13	3:V:390:ILE:H	1.72	0.42
4:W:114:LEU:HD23	4:W:115:ASP:N	2.33	0.42
4:W:117:PHE:O	4:W:117:PHE:CD1	2.72	0.42
4:X:56:LYS:O	4:X:71:ILE:N	2.43	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:X:114:LEU:O	4:X:115:ASP:C	2.62	0.42
1:A:68:LEU:HG	1:A:69:GLU:N	2.15	0.42
1:A:317:LEU:HD23	1:A:328:ALA:HB1	2.02	0.42
2:B:491:LEU:CD1	2:B:499:THR:HG22	2.49	0.42
1:C:105:ASN:HD22	1:C:105:ASN:HA	1.64	0.42
2:D:217:TRP:NE1	3:N:123:PRO:HB2	2.34	0.42
2:D:262:VAL:CG2	2:D:263:LEU:N	2.83	0.42
2:D:330:ASP:O	2:D:335:LYS:HE3	2.19	0.42
2:D:374:VAL:O	2:D:377:ILE:N	2.53	0.42
2:D:571:ALA:C	2:D:573:VAL:N	2.76	0.42
1:E:11:ILE:HG12	1:E:55:TYR:CD2	2.55	0.42
1:E:111:LEU:HD23	1:E:111:LEU:HA	1.90	0.42
1:E:181:ASN:O	1:E:182:LEU:C	2.62	0.42
1:E:232:SER:O	1:E:235:HIS:N	2.50	0.42
1:E:316:PHE:O	1:E:318:LEU:N	2.53	0.42
1:E:441:LEU:HD23	1:E:441:LEU:O	2.17	0.42
1:E:443:GLN:O	1:E:446:THR:HG23	2.20	0.42
1:E:446:THR:HG23	1:E:447:ASN:N	2.35	0.42
1:E:493:GLU:HG2	1:E:494:GLU:N	2.35	0.42
2:F:88:VAL:O	2:F:91:PHE:N	2.50	0.42
2:F:367:VAL:O	2:F:369:PHE:N	2.52	0.42
2:F:473:PHE:O	2:F:475:ASP:OD1	2.37	0.42
1:G:11:ILE:O	1:G:12:ARG:C	2.63	0.42
1:G:11:ILE:HG12	1:G:55:TYR:CD2	2.55	0.42
1:G:135:CYS:O	1:G:139:ALA:HB2	2.19	0.42
1:G:219:LEU:HD13	1:G:253:LEU:CD2	2.50	0.42
1:G:317:LEU:HD23	1:G:328:ALA:HB1	2.02	0.42
1:G:506:LEU:O	1:G:508:ILE:N	2.52	0.42
2:H:35:LYS:CE	3:P:137:GLN:HE21	2.31	0.42
2:H:75:ASN:C	2:H:77:ALA:H	2.27	0.42
2:H:570:LEU:CD2	3:P:77:VAL:HG22	2.47	0.42
1:I:28:GLN:O	1:I:32:ALA:HB2	2.20	0.42
1:I:131:SER:O	1:I:132:SER:O	2.38	0.42
1:I:286:ASN:O	1:I:287:ALA:C	2.59	0.42
1:I:299:ILE:HG22	1:I:300:LYS:N	2.34	0.42
2:J:71:LEU:O	2:J:74:MET:CB	2.67	0.42
2:J:473:PHE:O	2:J:475:ASP:OD1	2.37	0.42
2:J:573:VAL:CG1	2:J:574:TYR:N	2.83	0.42
1:K:11:ILE:O	1:K:13:THR:N	2.52	0.42
1:K:343:VAL:O	1:K:344:GLN:C	2.61	0.42
1:K:396:PHE:N	1:K:396:PHE:HD1	2.17	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:419:ILE:O	1:K:423:MET:HG3	2.19	0.42
1:K:443:GLN:O	1:K:446:THR:HG23	2.20	0.42
2:L:130:LEU:HD23	2:L:130:LEU:HA	1.44	0.42
2:L:255:VAL:HG23	2:L:256:VAL:HG23	2.01	0.42
2:L:309:ILE:HG22	2:L:310:VAL:N	2.33	0.42
3:M:97:GLU:O	3:M:102:SER:OG	2.35	0.42
3:N:202:VAL:CG1	3:N:203:PHE:N	2.82	0.42
3:P:2:SER:O	3:P:71:SER:HB2	2.19	0.42
3:P:143:GLU:O	3:P:143:GLU:HG3	2.19	0.42
3:R:143:GLU:O	3:R:143:GLU:HG3	2.19	0.42
3:R:396:LYS:HD3	3:R:396:LYS:HA	1.90	0.42
4:S:28:ARG:O	4:S:32:VAL:HG23	2.19	0.42
4:T:114:LEU:HD23	4:T:115:ASP:N	2.33	0.42
4:U:114:LEU:HD23	4:U:115:ASP:N	2.33	0.42
3:V:356:MET:SD	3:V:357:ARG:N	2.92	0.42
3:V:374:PRO:HA	3:V:375:PRO:HD3	1.76	0.42
4:W:28:ARG:O	4:W:32:VAL:HG23	2.19	0.42
4:W:131:VAL:HG12	4:W:132:LEU:N	2.34	0.42
4:X:10:ARG:HB3	4:X:11:GLN:OE1	2.20	0.42
4:X:31:MET:HE3	4:X:53:ARG:NH1	2.35	0.42
4:X:87:TYR:O	4:X:90:LEU:HB2	2.19	0.42
1:A:44:THR:O	1:A:45:TYR:CB	2.65	0.42
1:A:68:LEU:HD23	1:A:68:LEU:H	1.83	0.42
1:A:156:LYS:O	1:A:157:ALA:C	2.63	0.42
1:A:158:ALA:O	1:A:159:LEU:C	2.63	0.42
1:A:198:LEU:O	1:A:199:THR:C	2.62	0.42
1:A:417:TRP:CE2	1:A:421:THR:HG21	2.54	0.42
1:A:547:VAL:O	1:A:548:VAL:C	2.62	0.42
2:B:99:ASN:HA	2:B:100:PRO:HD2	1.75	0.42
2:B:104:ALA:O	2:B:107:VAL:HB	2.19	0.42
2:B:344:ARG:O	2:B:345:LEU:HD23	2.20	0.42
2:B:400:GLN:HA	2:B:400:GLN:NE2	2.34	0.42
2:B:536:ALA:O	2:B:537:ALA:C	2.62	0.42
1:C:84:ILE:O	1:C:85:GLY:C	2.61	0.42
1:C:174:MET:C	1:C:177:PRO:HD2	2.44	0.42
1:C:183:LEU:HD12	1:C:215:LEU:HB3	2.02	0.42
1:C:317:LEU:HD23	1:C:328:ALA:HB1	2.02	0.42
1:C:531:MET:HE2	1:C:531:MET:HB3	1.87	0.42
2:D:262:VAL:O	2:D:263:LEU:C	2.63	0.42
2:D:370:VAL:O	2:D:371:ARG:C	2.61	0.42
1:E:198:LEU:O	1:E:199:THR:C	2.62	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:256:LEU:C	1:E:258:ARG:H	2.28	0.42
1:E:416:ARG:HD3	1:E:454:TYR:HE1	1.82	0.42
2:F:244:VAL:O	2:F:247:ARG:HB2	2.19	0.42
2:F:309:ILE:HG22	2:F:310:VAL:N	2.33	0.42
1:G:6:ARG:HD3	3:R:337:GLU:HG2	2.02	0.42
1:G:118:VAL:C	1:G:120:GLY:N	2.77	0.42
1:G:152:TYR:HH	4:Q:116:GLU:CD	2.25	0.42
1:G:289:LEU:O	1:G:292:THR:OG1	2.28	0.42
1:G:316:PHE:O	1:G:318:LEU:N	2.53	0.42
1:G:531:MET:HE2	1:G:531:MET:HB3	1.87	0.42
2:H:74:MET:O	2:H:77:ALA:HB2	2.20	0.42
2:H:323:VAL:CG2	2:H:324:PHE:N	2.82	0.42
1:I:19:THR:O	1:I:22:GLU:HB3	2.19	0.42
1:I:156:LYS:O	1:I:157:ALA:C	2.63	0.42
1:I:198:LEU:O	1:I:199:THR:C	2.62	0.42
1:I:219:LEU:HD13	1:I:253:LEU:CD2	2.50	0.42
1:I:519:THR:CG2	1:I:521:VAL:HG12	2.49	0.42
1:I:540:THR:O	1:I:540:THR:HG22	2.20	0.42
2:J:49:ALA:O	2:J:50:LEU:C	2.62	0.42
2:J:164:THR:O	2:J:165:LEU:C	2.62	0.42
2:J:323:VAL:CG2	2:J:324:PHE:N	2.82	0.42
2:J:370:VAL:O	2:J:371:ARG:C	2.61	0.42
2:J:536:ALA:O	2:J:537:ALA:C	2.62	0.42
1:K:317:LEU:HD23	1:K:328:ALA:HB1	2.02	0.42
1:K:363:ARG:O	1:K:366:MET:HB3	2.19	0.42
1:K:496:GLU:HA	1:K:497:PRO:HD3	1.94	0.42
2:L:527:TRP:HE3	2:L:527:TRP:HA	1.84	0.42
3:M:56:ARG:C	3:M:57:PHE:CD1	2.97	0.42
3:M:103:ILE:C	3:M:105:ASP:N	2.74	0.42
3:M:374:PRO:HA	3:M:375:PRO:HD3	1.76	0.42
3:N:4:SER:OG	3:N:22:ARG:HD3	2.19	0.42
3:N:25:VAL:O	3:N:27:MET:N	2.53	0.42
3:N:242:VAL:HA	3:N:255:PHE:HB3	2.02	0.42
3:O:103:ILE:O	3:O:105:ASP:N	2.53	0.42
3:O:160:ARG:C	3:O:161:SER:O	2.59	0.42
3:O:210:LEU:HD22	3:O:210:LEU:HA	1.87	0.42
3:P:25:VAL:O	3:P:27:MET:N	2.53	0.42
3:P:202:VAL:CG1	3:P:203:PHE:N	2.82	0.42
3:R:25:VAL:O	3:R:27:MET:N	2.53	0.42
3:R:79:LEU:HB2	3:R:80:VAL:H	1.51	0.42
4:S:65:LEU:HA	4:S:65:LEU:HD12	1.75	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:T:7:LEU:HD23	4:T:7:LEU:HA	1.55	0.42
4:T:10:ARG:HB3	4:T:11:GLN:OE1	2.19	0.42
4:T:78:LEU:O	4:T:79:ILE:C	2.60	0.42
4:U:79:ILE:CG2	4:U:80:THR:H	2.32	0.42
4:U:109:LYS:CA	4:U:112:PHE:HD1	2.24	0.42
3:V:91:PHE:C	3:V:93:GLU:N	2.73	0.42
3:V:112:GLU:OE1	3:V:135:ILE:HA	2.20	0.42
3:V:213:GLY:HA3	3:V:394:TYR:CZ	2.55	0.42
3:V:314:ILE:HG12	3:V:376:ILE:CD1	2.50	0.42
4:W:31:MET:HE3	4:W:53:ARG:NH1	2.35	0.42
4:X:79:ILE:CG2	4:X:80:THR:H	2.32	0.42
1:A:31:CYS:HA	1:A:34:ILE:HB	2.00	0.42
1:A:152:TYR:O	1:A:155:LYS:HE2	2.20	0.42
1:A:382:MET:CE	1:A:404:ILE:HG23	2.49	0.42
1:A:411:TYR:CD1	1:A:411:TYR:N	2.80	0.42
1:A:572:LYS:HG2	1:A:573:TYR:CE1	2.53	0.42
2:B:132:ASP:HB3	2:B:133:GLU:H	1.63	0.42
2:B:350:ASN:O	2:B:351:ILE:C	2.63	0.42
2:B:371:ARG:C	2:B:373:ALA:N	2.77	0.42
2:B:378:GLY:C	2:B:380:CYS:N	2.75	0.42
1:C:19:THR:O	1:C:22:GLU:HB3	2.19	0.42
1:C:135:CYS:O	1:C:139:ALA:HB2	2.19	0.42
1:C:152:TYR:O	1:C:155:LYS:HE2	2.20	0.42
1:C:343:VAL:O	1:C:344:GLN:C	2.61	0.42
1:C:493:GLU:HG2	1:C:494:GLU:N	2.35	0.42
2:D:35:LYS:CE	3:N:137:GLN:HE21	2.30	0.42
2:D:142:ALA:O	2:D:145:VAL:HG23	2.20	0.42
2:D:309:ILE:HG22	2:D:310:VAL:N	2.33	0.42
1:E:135:CYS:C	1:E:137:ASP:N	2.75	0.42
1:E:251:ARG:HH22	4:U:75:ASP:HA	1.85	0.42
1:E:282:LYS:O	1:E:283:ASN:C	2.63	0.42
1:E:317:LEU:HD23	1:E:328:ALA:HB1	2.02	0.42
1:E:382:MET:CE	1:E:404:ILE:HG23	2.49	0.42
2:F:350:ASN:O	2:F:351:ILE:C	2.63	0.42
2:F:461:ASN:HB3	2:F:465:LEU:CD1	2.49	0.42
1:G:183:LEU:HD12	1:G:215:LEU:HB3	2.02	0.42
1:G:292:THR:O	1:G:296:ILE:HG13	2.20	0.42
1:G:446:THR:OG1	1:G:586:VAL:HG13	2.20	0.42
1:G:529:ALA:HA	1:G:532:LYS:CD	2.50	0.42
2:H:30:LYS:H	2:H:30:LYS:HG3	1.69	0.42
2:H:301:VAL:O	2:H:302:PRO:C	2.62	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:35:ARG:C	1:I:37:SER:H	2.27	0.42
1:I:208:MET:O	1:I:209:LEU:C	2.63	0.42
1:I:264:SER:OG	1:I:299:ILE:CG2	2.68	0.42
1:I:267:MET:HE1	1:I:299:ILE:HD12	2.00	0.42
1:I:459:LEU:HD23	1:I:459:LEU:HA	1.91	0.42
2:J:244:VAL:O	2:J:247:ARG:HB2	2.19	0.42
2:J:374:VAL:O	2:J:377:ILE:N	2.53	0.42
1:K:11:ILE:HG12	1:K:55:TYR:CD2	2.55	0.42
1:K:45:TYR:O	1:K:46:ARG:C	2.62	0.42
1:K:71:LEU:C	1:K:73:LEU:N	2.78	0.42
1:K:251:ARG:HH22	4:W:75:ASP:HA	1.85	0.42
1:K:411:TYR:CD1	1:K:411:TYR:N	2.80	0.42
2:L:35:LYS:HE2	3:V:137:GLN:NE2	2.32	0.42
2:L:38:ILE:HD13	2:L:38:ILE:N	2.31	0.42
2:L:413:VAL:HG12	2:L:414:ILE:N	2.34	0.42
3:M:50:LEU:HD11	3:M:59:TRP:NE1	2.35	0.42
3:M:202:VAL:CG1	3:M:203:PHE:N	2.82	0.42
3:N:131:LEU:C	3:N:133:GLU:N	2.68	0.42
3:N:314:ILE:HG12	3:N:376:ILE:CD1	2.50	0.42
3:O:16:LEU:HD13	3:O:16:LEU:O	2.20	0.42
3:O:25:VAL:O	3:O:27:MET:N	2.53	0.42
3:P:247:PHE:HB2	3:P:248:GLU:H	1.62	0.42
3:R:65:LEU:HD11	3:R:99:GLU:H	1.85	0.42
3:R:213:GLY:HA3	3:R:394:TYR:CZ	2.55	0.42
4:S:98:VAL:CG2	4:S:99:CYS:N	2.80	0.42
3:V:16:LEU:HD13	3:V:16:LEU:O	2.20	0.42
3:V:43:GLU:O	3:V:45:MET:N	2.51	0.42
4:X:101:LEU:O	4:X:102:ASP:C	2.62	0.42
1:A:208:MET:HE2	1:A:208:MET:HB3	1.84	0.42
1:A:264:SER:OG	1:A:299:ILE:CG2	2.68	0.42
1:A:389:LEU:HD13	1:A:400:CYS:HB3	2.02	0.42
1:A:540:THR:O	1:A:540:THR:HG22	2.20	0.42
1:A:565:GLU:O	1:A:566:TYR:C	2.62	0.42
2:B:142:ALA:O	2:B:145:VAL:HG23	2.20	0.42
2:B:262:VAL:CG2	2:B:263:LEU:N	2.83	0.42
2:B:573:VAL:CG1	2:B:574:TYR:N	2.83	0.42
1:C:185:GLU:CG	1:C:186:LYS:N	2.83	0.42
1:C:232:SER:O	1:C:235:HIS:N	2.49	0.42
1:C:264:SER:OG	1:C:299:ILE:CG2	2.68	0.42
1:C:460:TYR:O	1:C:464:LEU:HD23	2.19	0.42
1:C:581:LEU:C	1:C:583:ARG:N	2.69	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:49:ALA:O	2:D:50:LEU:C	2.62	0.42
2:D:344:ARG:O	2:D:345:LEU:HD23	2.19	0.42
2:D:387:SER:HB2	2:D:390:ARG:HD3	2.00	0.42
2:D:429:ILE:O	2:D:430:ALA:C	2.61	0.42
2:D:536:ALA:O	2:D:537:ALA:C	2.62	0.42
1:E:152:TYR:O	1:E:155:LYS:HE2	2.19	0.42
1:E:158:ALA:O	1:E:159:LEU:C	2.63	0.42
1:E:292:THR:O	1:E:296:ILE:HG13	2.20	0.42
1:E:360:SER:O	1:E:361:ILE:C	2.62	0.42
2:F:49:ALA:O	2:F:52:PRO:HD2	2.20	0.42
2:F:257:LEU:O	2:F:259:ALA:N	2.53	0.42
2:F:358:LEU:O	2:F:359:LYS:C	2.62	0.42
2:F:405:TYR:CE1	2:F:406:VAL:HG23	2.55	0.42
1:G:71:LEU:C	1:G:73:LEU:N	2.78	0.42
1:G:152:TYR:O	1:G:155:LYS:HE2	2.19	0.42
1:G:212:PHE:HZ	1:G:260:ASP:CB	2.33	0.42
1:G:267:MET:O	1:G:268:ASN:C	2.63	0.42
1:G:299:ILE:HG22	1:G:300:LYS:N	2.34	0.42
2:H:71:LEU:O	2:H:74:MET:CB	2.67	0.42
2:H:132:ASP:HB3	2:H:133:GLU:H	1.63	0.42
2:H:262:VAL:CG2	2:H:263:LEU:N	2.83	0.42
2:H:473:PHE:O	2:H:475:ASP:OD1	2.37	0.42
1:I:11:ILE:HG12	1:I:55:TYR:CD2	2.55	0.42
1:I:133:GLU:CD	1:I:133:GLU:H	2.27	0.42
1:I:185:GLU:CG	1:I:186:LYS:N	2.83	0.42
1:I:211:HIS:O	1:I:212:PHE:C	2.62	0.42
1:I:212:PHE:HZ	1:I:260:ASP:CB	2.33	0.42
1:I:493:GLU:HG2	1:I:494:GLU:N	2.35	0.42
2:J:51:PHE:O	2:J:52:PRO:C	2.61	0.42
2:J:142:ALA:O	2:J:143:VAL:C	2.63	0.42
2:J:367:VAL:O	2:J:369:PHE:N	2.52	0.42
2:J:405:TYR:CE1	2:J:406:VAL:HG23	2.55	0.42
2:J:525:ILE:HG22	2:J:526:TYR:N	2.35	0.42
1:K:11:ILE:O	1:K:12:ARG:C	2.63	0.42
1:K:35:ARG:C	1:K:37:SER:H	2.27	0.42
1:K:35:ARG:CD	1:K:65:PHE:HE2	2.21	0.42
1:K:74:ILE:CG2	1:K:86:TYR:HE1	2.22	0.42
1:K:159:LEU:O	1:K:162:VAL:CB	2.62	0.42
2:L:146:ALA:O	2:L:147:LYS:C	2.63	0.42
2:L:289:VAL:C	2:L:291:LEU:N	2.75	0.42
2:L:387:SER:HB2	2:L:390:ARG:HD3	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:M:184:SER:C	3:M:186:ASN:N	2.77	0.42
3:M:207:MET:N	3:M:208:PRO:HD3	2.34	0.42
3:M:314:ILE:HG12	3:M:376:ILE:CD1	2.50	0.42
3:N:122:TYR:HA	3:N:123:PRO:HD3	1.88	0.42
3:O:65:LEU:HD11	3:O:99:GLU:H	1.85	0.42
3:O:242:VAL:HA	3:O:255:PHE:HB3	2.02	0.42
3:O:384:TYR:HD2	3:O:384:TYR:H	1.67	0.42
4:Q:7:LEU:O	4:Q:15:ARG:N	2.41	0.42
4:Q:87:TYR:O	4:Q:90:LEU:HB2	2.19	0.42
3:R:2:SER:O	3:R:71:SER:HB2	2.19	0.42
3:R:130:ILE:O	3:R:130:ILE:CG2	2.67	0.42
3:R:186:ASN:O	3:R:187:GLY:C	2.63	0.42
4:S:10:ARG:HB3	4:S:11:GLN:OE1	2.19	0.42
4:T:53:ARG:O	4:T:54:ASP:CB	2.63	0.42
3:V:86:LYS:O	3:V:89:GLN:CB	2.64	0.42
3:V:103:ILE:O	3:V:105:ASP:N	2.53	0.42
3:V:143:GLU:O	3:V:143:GLU:HG3	2.19	0.42
3:V:183:VAL:HB	3:V:420:LEU:HD22	2.01	0.42
3:V:328:THR:HB	3:V:329:VAL:HG23	2.01	0.42
3:V:329:VAL:CG1	3:V:330:GLY:N	2.81	0.42
1:A:36:SER:CA	1:A:39:ARG:HG2	2.41	0.41
1:A:131:SER:O	1:A:132:SER:O	2.38	0.41
1:A:183:LEU:HD12	1:A:215:LEU:HB3	2.02	0.41
1:A:212:PHE:HZ	1:A:260:ASP:CB	2.33	0.41
1:A:219:LEU:HD13	1:A:253:LEU:CD2	2.50	0.41
1:A:247:VAL:HG13	1:A:291:GLU:HG2	2.02	0.41
1:A:273:GLN:O	1:A:274:VAL:C	2.63	0.41
1:A:350:ILE:O	1:A:351:VAL:C	2.62	0.41
1:A:382:MET:O	1:A:383:LYS:C	2.63	0.41
1:A:446:THR:HG23	1:A:447:ASN:N	2.35	0.41
1:A:559:LEU:O	1:A:560:GLN:C	2.61	0.41
2:B:49:ALA:O	2:B:50:LEU:C	2.63	0.41
2:B:102:ILE:O	2:B:103:ARG:C	2.63	0.41
2:B:130:LEU:HD23	2:B:130:LEU:HA	1.44	0.41
2:B:348:GLN:C	2:B:350:ASN:N	2.77	0.41
2:B:503:VAL:O	2:B:504:GLN:C	2.63	0.41
1:C:251:ARG:HH22	4:T:75:ASP:HA	1.85	0.41
1:C:316:PHE:O	1:C:318:LEU:N	2.53	0.41
1:C:382:MET:O	1:C:383:LYS:C	2.63	0.41
1:C:413:PRO:HG2	1:C:414:SER:H	1.84	0.41
2:D:81:PRO:O	2:D:82:ASP:C	2.61	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:102:ILE:O	2:D:103:ARG:C	2.63	0.41
2:D:174:PRO:O	2:D:175:MET:C	2.62	0.41
2:D:216:GLU:O	2:D:217:TRP:C	2.63	0.41
2:D:350:ASN:O	2:D:351:ILE:C	2.63	0.41
2:D:525:ILE:HG22	2:D:526:TYR:N	2.35	0.41
1:E:185:GLU:CG	1:E:186:LYS:N	2.83	0.41
1:E:211:HIS:O	1:E:212:PHE:C	2.62	0.41
1:E:214:LYS:O	1:E:217:PRO:HD2	2.19	0.41
1:E:299:ILE:HG22	1:E:300:LYS:N	2.34	0.41
1:E:353:CYS:O	1:E:354:LEU:C	2.63	0.41
1:E:374:ASN:HB3	1:E:375:GLY:H	1.60	0.41
1:E:382:MET:O	1:E:383:LYS:C	2.63	0.41
2:F:81:PRO:O	2:F:82:ASP:C	2.61	0.41
2:F:85:ILE:O	2:F:86:MET:C	2.60	0.41
2:F:216:GLU:CD	2:F:217:TRP:HZ3	2.28	0.41
2:F:216:GLU:O	2:F:217:TRP:C	2.63	0.41
2:F:229:TYR:HB3	2:F:230:MET:H	1.21	0.41
2:F:361:TYR:O	2:F:362:ALA:C	2.62	0.41
2:F:437:ASP:C	2:F:439:ASP:N	2.76	0.41
1:G:185:GLU:CG	1:G:186:LYS:N	2.83	0.41
1:G:211:HIS:O	1:G:212:PHE:C	2.62	0.41
1:G:251:ARG:HH22	4:Q:75:ASP:HA	1.85	0.41
1:G:264:SER:OG	1:G:299:ILE:CG2	2.68	0.41
1:G:339:ASP:O	1:G:342:ALA:HB3	2.19	0.41
1:G:443:GLN:O	1:G:446:THR:HG23	2.20	0.41
2:H:35:LYS:HE2	3:P:137:GLN:NE2	2.32	0.41
2:H:104:ALA:O	2:H:107:VAL:HB	2.19	0.41
2:H:148:LEU:CA	2:H:151:ILE:HG13	2.49	0.41
2:H:303:LEU:O	2:H:306:ILE:HB	2.20	0.41
2:H:429:ILE:O	2:H:430:ALA:C	2.62	0.41
2:H:452:VAL:HG11	2:H:466:LEU:HD11	2.01	0.41
2:H:495:LYS:O	2:H:496:PRO:O	2.38	0.41
1:I:271:LEU:HD12	1:I:296:ILE:HG13	2.01	0.41
1:I:282:LYS:O	1:I:283:ASN:C	2.63	0.41
1:I:460:TYR:CZ	1:I:464:LEU:HD21	2.55	0.41
1:I:573:TYR:O	1:I:574:ASP:O	2.37	0.41
2:J:102:ILE:O	2:J:103:ARG:C	2.63	0.41
2:J:257:LEU:HD11	2:J:567:ILE:C	2.45	0.41
1:K:38:PHE:N	1:K:38:PHE:CD2	2.86	0.41
1:K:124:CYS:O	1:K:125:THR:C	2.63	0.41
1:K:527:LEU:C	1:K:527:LEU:HD23	2.45	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:547:VAL:O	1:K:548:VAL:C	2.62	0.41
1:K:559:LEU:O	1:K:560:GLN:C	2.61	0.41
2:L:49:ALA:O	2:L:52:PRO:HD2	2.20	0.41
3:O:2:SER:O	3:O:71:SER:HB2	2.19	0.41
3:O:112:GLU:OE1	3:O:135:ILE:HA	2.20	0.41
3:O:256:ILE:HA	3:O:257:PRO:HD3	1.62	0.41
3:O:308:ASN:O	3:O:309:ASN:C	2.63	0.41
3:P:335:VAL:O	3:P:337:GLU:O	2.38	0.41
4:Q:28:ARG:O	4:Q:32:VAL:HG23	2.19	0.41
4:S:31:MET:HE3	4:S:53:ARG:NH1	2.35	0.41
4:U:29:LYS:O	4:U:30:LYS:C	2.63	0.41
3:V:114:LEU:HD23	3:V:114:LEU:HA	1.87	0.41
3:V:162:GLU:CD	3:V:207:MET:HE2	2.45	0.41
4:W:132:LEU:HA	4:W:135:ILE:HG22	2.02	0.41
4:X:131:VAL:HG12	4:X:132:LEU:N	2.34	0.41
1:A:30:GLU:O	1:A:31:CYS:C	2.63	0.41
1:A:84:ILE:O	1:A:85:GLY:C	2.61	0.41
1:A:124:CYS:O	1:A:125:THR:C	2.63	0.41
1:A:316:PHE:O	1:A:318:LEU:N	2.53	0.41
1:A:343:VAL:O	1:A:344:GLN:C	2.61	0.41
1:A:455:THR:C	1:A:457:GLN:N	2.75	0.41
1:A:459:LEU:HD23	1:A:459:LEU:HA	1.91	0.41
2:B:49:ALA:O	2:B:52:PRO:HD2	2.20	0.41
2:B:146:ALA:O	2:B:147:LYS:C	2.63	0.41
2:B:216:GLU:CD	2:B:217:TRP:HZ3	2.28	0.41
2:B:460:ASP:C	2:B:462:ALA:N	2.78	0.41
2:B:461:ASN:HB3	2:B:465:LEU:CD1	2.49	0.41
1:C:10:LEU:HD12	1:C:14:ILE:HD11	2.00	0.41
1:C:156:LYS:O	1:C:157:ALA:C	2.63	0.41
1:C:389:LEU:HD13	1:C:400:CYS:HB3	2.02	0.41
2:D:428:VAL:HG23	2:D:429:ILE:HD12	2.01	0.41
2:D:495:LYS:O	2:D:496:PRO:O	2.38	0.41
2:D:530:LEU:C	2:D:532:THR:N	2.75	0.41
1:E:172:MET:HB2	1:E:201:MET:CE	2.46	0.41
1:E:179:THR:CG2	1:E:180:LYS:N	2.77	0.41
1:E:183:LEU:HA	1:E:183:LEU:HD23	1.63	0.41
1:E:208:MET:O	1:E:209:LEU:C	2.63	0.41
1:E:264:SER:OG	1:E:299:ILE:CG2	2.68	0.41
1:E:478:TRP:CE3	1:E:478:TRP:CA	2.98	0.41
2:F:104:ALA:CB	2:F:136:TYR:CD2	3.00	0.41
2:F:309:ILE:C	2:F:311:GLN:N	2.75	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:334:VAL:HG12	2:F:338:LYS:HE3	2.03	0.41
2:F:451:ILE:HG22	2:F:452:VAL:N	2.33	0.41
1:G:68:LEU:C	1:G:70:CYS:N	2.77	0.41
1:G:73:LEU:O	1:G:75:ALA:N	2.52	0.41
1:G:235:HIS:O	1:G:236:ASP:C	2.61	0.41
1:G:306:ARG:O	1:G:309:ALA:HB3	2.20	0.41
1:G:306:ARG:HD3	1:G:339:ASP:OD1	2.20	0.41
1:G:416:ARG:HD3	1:G:454:TYR:CE1	2.55	0.41
1:G:493:GLU:HG2	1:G:494:GLU:N	2.35	0.41
2:H:146:ALA:O	2:H:147:LYS:C	2.63	0.41
2:H:374:VAL:O	2:H:377:ILE:N	2.53	0.41
1:I:45:TYR:O	1:I:46:ARG:C	2.62	0.41
1:I:117:PHE:CD1	1:I:117:PHE:N	2.89	0.41
1:I:147:LYS:HE2	1:I:147:LYS:CA	2.43	0.41
1:I:292:THR:O	1:I:296:ILE:HG13	2.20	0.41
1:I:446:THR:OG1	1:I:586:VAL:HG13	2.20	0.41
1:I:527:LEU:C	1:I:527:LEU:HD23	2.45	0.41
2:J:74:MET:O	2:J:77:ALA:N	2.39	0.41
2:J:570:LEU:CD2	3:R:77:VAL:HG22	2.47	0.41
1:K:256:LEU:C	1:K:258:ARG:H	2.28	0.41
1:K:292:THR:O	1:K:296:ILE:HG13	2.20	0.41
1:K:306:ARG:O	1:K:309:ALA:HB3	2.20	0.41
1:K:306:ARG:HD3	1:K:339:ASP:OD1	2.20	0.41
1:K:344:GLN:NE2	1:K:374:ASN:ND2	2.66	0.41
1:K:416:ARG:HD3	1:K:454:TYR:CE1	2.55	0.41
1:K:418:HIS:O	1:K:419:ILE:C	2.63	0.41
1:K:437:ALA:O	1:K:440:ASN:N	2.54	0.41
1:K:454:TYR:O	1:K:457:GLN:HB2	2.21	0.41
1:K:481:GLY:HA2	1:K:533:LEU:HD21	2.03	0.41
2:L:102:ILE:O	2:L:103:ARG:C	2.63	0.41
2:L:142:ALA:O	2:L:143:VAL:C	2.63	0.41
2:L:257:LEU:O	2:L:259:ALA:N	2.53	0.41
2:L:262:VAL:O	2:L:263:LEU:C	2.63	0.41
2:L:341:ILE:N	2:L:341:ILE:HD12	2.35	0.41
2:L:387:SER:O	2:L:390:ARG:HB2	2.19	0.41
3:M:16:LEU:HD13	3:M:16:LEU:O	2.20	0.41
3:N:16:LEU:HD13	3:N:16:LEU:O	2.20	0.41
3:N:112:GLU:OE1	3:N:135:ILE:HA	2.20	0.41
3:O:77:VAL:C	3:O:79:LEU:N	2.79	0.41
3:O:214:LEU:HA	3:O:214:LEU:HD23	1.82	0.41
3:P:16:LEU:HD13	3:P:16:LEU:O	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:P:184:SER:C	3:P:186:ASN:N	2.77	0.41
3:P:205:SER:O	3:P:399:GLU:OE1	2.38	0.41
3:P:380:PHE:HB2	3:P:381:GLU:H	1.67	0.41
3:R:162:GLU:CD	3:R:207:MET:HE2	2.45	0.41
3:R:210:LEU:HD22	3:R:210:LEU:HA	1.87	0.41
3:R:328:THR:HB	3:R:329:VAL:HG23	2.01	0.41
3:R:395:LEU:HA	3:R:395:LEU:HD12	1.70	0.41
4:U:101:LEU:O	4:U:102:ASP:C	2.62	0.41
4:U:113:ILE:O	4:U:114:LEU:C	2.62	0.41
4:X:59:TYR:N	4:X:59:TYR:HD2	2.19	0.41
1:A:11:ILE:HG12	1:A:55:TYR:CD2	2.55	0.41
1:A:35:ARG:C	1:A:37:SER:N	2.78	0.41
1:A:251:ARG:HH22	4:S:75:ASP:HA	1.85	0.41
1:A:306:ARG:O	1:A:309:ALA:HB3	2.20	0.41
1:A:481:GLY:HA2	1:A:533:LEU:HD21	2.03	0.41
2:B:130:LEU:O	2:B:132:ASP:N	2.54	0.41
2:B:216:GLU:O	2:B:220:ILE:HD13	2.21	0.41
2:B:257:LEU:HD11	2:B:567:ILE:C	2.46	0.41
2:B:301:VAL:O	2:B:302:PRO:C	2.62	0.41
2:B:341:ILE:N	2:B:341:ILE:HD12	2.35	0.41
1:C:117:PHE:CD1	1:C:117:PHE:N	2.89	0.41
1:C:211:HIS:O	1:C:212:PHE:C	2.62	0.41
1:C:248:ARG:O	1:C:249:ILE:C	2.58	0.41
1:C:270:ILE:HG23	1:C:271:LEU:CD2	2.44	0.41
1:C:323:ASN:O	1:C:326:TYR:N	2.45	0.41
1:C:437:ALA:O	1:C:440:ASN:N	2.54	0.41
1:C:566:TYR:O	1:C:569:LEU:HB2	2.20	0.41
2:D:371:ARG:C	2:D:373:ALA:N	2.77	0.41
2:D:461:ASN:HB3	2:D:465:LEU:CD1	2.49	0.41
1:E:35:ARG:C	1:E:37:SER:H	2.27	0.41
1:E:209:LEU:HD22	1:E:213:ARG:NE	2.35	0.41
1:E:219:LEU:HD13	1:E:253:LEU:CD2	2.50	0.41
1:E:273:GLN:O	1:E:274:VAL:C	2.63	0.41
1:E:287:ALA:HA	4:U:78:LEU:HD13	2.02	0.41
1:E:413:PRO:HG2	1:E:414:SER:H	1.84	0.41
1:E:437:ALA:O	1:E:440:ASN:N	2.53	0.41
2:F:74:MET:O	2:F:77:ALA:N	2.39	0.41
2:F:142:ALA:O	2:F:143:VAL:C	2.63	0.41
2:F:257:LEU:HD11	2:F:567:ILE:C	2.45	0.41
2:F:462:ALA:O	2:F:466:LEU:HD13	2.20	0.41
1:G:35:ARG:C	1:G:37:SER:H	2.27	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:104:THR:O	1:G:105:ASN:C	2.64	0.41
1:G:156:LYS:O	1:G:157:ALA:C	2.63	0.41
1:G:282:LYS:O	1:G:283:ASN:C	2.63	0.41
1:G:344:GLN:NE2	1:G:374:ASN:ND2	2.66	0.41
1:G:437:ALA:O	1:G:440:ASN:N	2.54	0.41
1:G:460:TYR:CZ	1:G:464:LEU:HD21	2.55	0.41
1:G:527:LEU:C	1:G:527:LEU:HD23	2.45	0.41
1:G:540:THR:O	1:G:540:THR:HG22	2.20	0.41
2:H:124:GLU:CB	2:H:125:PRO:HD3	2.42	0.41
2:H:154:GLN:CB	2:H:158:ASP:OD2	2.53	0.41
2:H:211:LEU:HD22	2:H:219:GLN:HA	2.02	0.41
2:H:257:LEU:O	2:H:259:ALA:N	2.53	0.41
2:H:405:TYR:CE1	2:H:406:VAL:HG23	2.55	0.41
1:I:73:LEU:O	1:I:75:ALA:N	2.52	0.41
1:I:100:HIS:O	1:I:103:MET:HB3	2.21	0.41
1:I:478:TRP:HH2	1:I:532:LYS:NZ	2.12	0.41
1:I:481:GLY:HA2	1:I:533:LEU:HD21	2.03	0.41
2:J:301:VAL:O	2:J:302:PRO:C	2.62	0.41
2:J:350:ASN:O	2:J:351:ILE:C	2.63	0.41
2:J:460:ASP:C	2:J:462:ALA:N	2.78	0.41
2:J:503:VAL:O	2:J:504:GLN:C	2.63	0.41
1:K:208:MET:O	1:K:209:LEU:C	2.63	0.41
1:K:212:PHE:HZ	1:K:260:ASP:CB	2.33	0.41
1:K:273:GLN:O	1:K:274:VAL:C	2.63	0.41
1:K:316:PHE:O	1:K:318:LEU:N	2.53	0.41
1:K:460:TYR:CZ	1:K:464:LEU:HD21	2.55	0.41
1:K:493:GLU:HG2	1:K:494:GLU:N	2.35	0.41
1:K:540:THR:O	1:K:540:THR:HG22	2.20	0.41
3:M:130:ILE:O	3:M:130:ILE:CG2	2.67	0.41
3:M:242:VAL:HA	3:M:255:PHE:HB3	2.02	0.41
3:N:186:ASN:O	3:N:187:GLY:C	2.63	0.41
3:O:26:ASP:O	3:O:28:SER:N	2.53	0.41
3:O:162:GLU:CD	3:O:207:MET:HE2	2.45	0.41
3:P:162:GLU:CD	3:P:207:MET:HE2	2.46	0.41
3:P:329:VAL:CG1	3:P:330:GLY:N	2.81	0.41
4:Q:113:ILE:O	4:Q:114:LEU:C	2.62	0.41
3:R:26:ASP:O	3:R:28:SER:N	2.54	0.41
3:R:94:TYR:HD2	3:R:94:TYR:HA	1.69	0.41
3:R:305:SER:C	3:R:306:THR:HG23	2.46	0.41
4:T:53:ARG:O	4:T:53:ARG:HG2	2.21	0.41
4:U:59:TYR:CD2	4:U:59:TYR:C	2.96	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:U:59:TYR:N	4:U:59:TYR:HD2	2.19	0.41
4:U:131:VAL:HG12	4:U:132:LEU:N	2.34	0.41
3:V:77:VAL:C	3:V:79:LEU:N	2.79	0.41
3:V:269:LEU:N	3:V:269:LEU:CD2	2.70	0.41
3:V:335:VAL:O	3:V:337:GLU:O	2.38	0.41
4:W:59:TYR:N	4:W:59:TYR:HD2	2.19	0.41
1:A:172:MET:N	1:A:172:MET:CE	2.68	0.41
1:A:235:HIS:O	1:A:236:ASP:C	2.61	0.41
1:A:267:MET:O	1:A:268:ASN:C	2.63	0.41
1:A:457:GLN:O	1:A:458:ARG:C	2.64	0.41
1:A:531:MET:O	1:A:534:SER:N	2.54	0.41
2:B:75:ASN:C	2:B:77:ALA:N	2.79	0.41
2:B:223:LEU:C	2:B:225:CYS:N	2.78	0.41
2:B:303:LEU:O	2:B:306:ILE:HB	2.20	0.41
2:B:405:TYR:CE1	2:B:406:VAL:HG23	2.55	0.41
2:B:525:ILE:HG22	2:B:526:TYR:N	2.35	0.41
2:B:527:TRP:HA	2:B:527:TRP:CE3	2.56	0.41
1:C:104:THR:O	1:C:105:ASN:C	2.64	0.41
1:C:416:ARG:HD3	1:C:454:TYR:CE1	2.55	0.41
2:D:35:LYS:HE2	3:N:137:GLN:NE2	2.32	0.41
2:D:75:ASN:C	2:D:77:ALA:N	2.79	0.41
2:D:132:ASP:HB3	2:D:133:GLU:H	1.63	0.41
2:D:223:LEU:C	2:D:225:CYS:N	2.78	0.41
2:D:257:LEU:HD11	2:D:567:ILE:C	2.45	0.41
2:D:257:LEU:O	2:D:259:ALA:N	2.53	0.41
2:D:462:ALA:O	2:D:466:LEU:HD13	2.20	0.41
2:D:491:LEU:CD1	2:D:499:THR:HG22	2.49	0.41
2:D:527:TRP:HA	2:D:527:TRP:CE3	2.56	0.41
1:E:30:GLU:O	1:E:31:CYS:C	2.63	0.41
1:E:124:CYS:O	1:E:125:THR:C	2.63	0.41
1:E:496:GLU:HA	1:E:497:PRO:HD3	1.94	0.41
1:E:566:TYR:O	1:E:569:LEU:HB2	2.20	0.41
2:F:71:LEU:O	2:F:74:MET:CB	2.67	0.41
2:F:303:LEU:HD23	2:F:303:LEU:HA	1.86	0.41
2:F:303:LEU:O	2:F:306:ILE:HB	2.20	0.41
2:F:495:LYS:O	2:F:496:PRO:O	2.38	0.41
1:G:19:THR:HG21	3:P:142:LEU:HD21	2.01	0.41
1:G:36:SER:CA	1:G:39:ARG:HG2	2.41	0.41
1:G:117:PHE:CD1	1:G:117:PHE:N	2.88	0.41
1:G:566:TYR:O	1:G:569:LEU:HB2	2.20	0.41
1:G:576:MET:O	1:G:577:ARG:C	2.60	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:100:PRO:HA	2:H:103:ARG:CG	2.46	0.41
2:H:130:LEU:O	2:H:132:ASP:N	2.53	0.41
2:H:216:GLU:O	2:H:217:TRP:C	2.63	0.41
2:H:334:VAL:HG12	2:H:338:LYS:HE3	2.02	0.41
2:H:341:ILE:N	2:H:341:ILE:HD12	2.35	0.41
2:H:361:TYR:O	2:H:362:ALA:C	2.62	0.41
2:H:573:VAL:CG1	2:H:574:TYR:N	2.83	0.41
1:I:10:LEU:O	1:I:13:THR:HB	2.21	0.41
1:I:158:ALA:O	1:I:159:LEU:C	2.63	0.41
1:I:306:ARG:O	1:I:309:ALA:HB3	2.20	0.41
1:I:316:PHE:O	1:I:318:LEU:N	2.53	0.41
1:I:457:GLN:O	1:I:458:ARG:C	2.64	0.41
2:J:257:LEU:O	2:J:259:ALA:N	2.53	0.41
2:J:334:VAL:HG12	2:J:338:LYS:HE3	2.03	0.41
2:J:433:CYS:O	2:J:435:ASN:N	2.53	0.41
1:K:299:ILE:HG22	1:K:300:LYS:N	2.34	0.41
2:L:75:ASN:C	2:L:77:ALA:H	2.27	0.41
2:L:301:VAL:O	2:L:302:PRO:C	2.62	0.41
2:L:374:VAL:O	2:L:377:ILE:N	2.53	0.41
2:L:405:TYR:CE1	2:L:406:VAL:HG23	2.55	0.41
2:L:570:LEU:CD1	3:V:74:ASN:HA	2.44	0.41
3:M:25:VAL:O	3:M:27:MET:N	2.53	0.41
3:M:83:PHE:O	3:M:87:VAL:HG23	2.21	0.41
3:M:162:GLU:CD	3:M:207:MET:HE2	2.46	0.41
3:M:305:SER:C	3:M:306:THR:HG23	2.46	0.41
3:M:308:ASN:O	3:M:309:ASN:C	2.63	0.41
3:M:384:TYR:HD2	3:M:384:TYR:H	1.67	0.41
3:N:50:LEU:HD11	3:N:59:TRP:NE1	2.35	0.41
3:N:67:LEU:HD12	3:N:67:LEU:HA	1.74	0.41
3:O:34:MET:O	3:O:37:LEU:HB3	2.21	0.41
3:O:133:GLU:OE2	3:O:134:PHE:HE1	2.02	0.41
3:P:83:PHE:O	3:P:87:VAL:HG23	2.21	0.41
3:P:133:GLU:OE2	3:P:134:PHE:HE1	2.02	0.41
3:P:283:ILE:C	3:P:284:GLU:HG3	2.46	0.41
4:Q:31:MET:HE3	4:Q:53:ARG:NH1	2.35	0.41
4:Q:59:TYR:N	4:Q:59:TYR:HD2	2.18	0.41
4:Q:135:ILE:HD12	4:Q:135:ILE:HA	1.90	0.41
3:R:112:GLU:OE1	3:R:135:ILE:HA	2.20	0.41
3:R:335:VAL:O	3:R:337:GLU:O	2.38	0.41
4:U:61:ARG:C	4:U:62:TYR:HD1	2.27	0.41
4:U:132:LEU:C	4:U:135:ILE:HG22	2.41	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:V:26:ASP:O	3:V:28:SER:N	2.53	0.41
3:V:342:VAL:O	3:V:342:VAL:HG12	2.20	0.41
4:X:29:LYS:O	4:X:30:LYS:C	2.63	0.41
1:A:75:ALA:O	1:A:76:SER:C	2.63	0.41
1:A:100:HIS:O	1:A:103:MET:HB3	2.21	0.41
1:A:154:ARG:HH21	1:A:182:LEU:HD23	1.86	0.41
1:A:267:MET:O	1:A:271:LEU:HD23	2.21	0.41
1:A:446:THR:OG1	1:A:586:VAL:HG13	2.20	0.41
1:A:460:TYR:CZ	1:A:464:LEU:HD21	2.55	0.41
1:A:531:MET:HE2	1:A:531:MET:HB3	1.87	0.41
1:A:565:GLU:OE2	2:B:522:ARG:NH2	2.30	0.41
2:B:74:MET:O	2:B:77:ALA:HB2	2.20	0.41
2:B:142:ALA:O	2:B:143:VAL:C	2.63	0.41
2:B:257:LEU:O	2:B:259:ALA:N	2.53	0.41
2:B:323:VAL:CG2	2:B:324:PHE:N	2.82	0.41
2:B:464:GLU:CD	1:E:233:PRO:HD2	2.46	0.41
1:C:30:GLU:O	1:C:31:CYS:C	2.63	0.41
1:C:344:GLN:NE2	1:C:374:ASN:ND2	2.66	0.41
1:C:443:GLN:O	1:C:446:THR:HG23	2.20	0.41
2:D:124:GLU:H	2:D:124:GLU:HG2	1.71	0.41
2:D:411:ILE:HG13	2:D:432:LEU:HD11	2.02	0.41
1:E:38:PHE:CD2	1:E:38:PHE:N	2.86	0.41
1:E:529:ALA:O	1:E:532:LYS:HG3	2.21	0.41
2:F:38:ILE:O	2:F:39:ALA:C	2.64	0.41
2:F:122:LEU:C	2:F:125:PRO:HD2	2.42	0.41
2:F:223:LEU:C	2:F:225:CYS:N	2.78	0.41
2:F:333:TYR:CE2	3:O:48:PRO:HG3	2.56	0.41
2:F:525:ILE:HG22	2:F:526:TYR:N	2.35	0.41
1:G:209:LEU:HD22	1:G:213:ARG:NE	2.35	0.41
1:G:247:VAL:HG13	1:G:291:GLU:HG2	2.02	0.41
1:G:287:ALA:HA	4:Q:78:LEU:HD13	2.02	0.41
2:H:102:ILE:O	2:H:103:ARG:C	2.63	0.41
2:H:136:TYR:CD1	3:P:134:PHE:HE2	2.33	0.41
2:H:142:ALA:O	2:H:145:VAL:HG23	2.20	0.41
2:H:370:VAL:O	2:H:371:ARG:C	2.61	0.41
2:H:378:GLY:O	2:H:380:CYS:N	2.54	0.41
2:H:483:GLN:O	2:H:487:ALA:N	2.45	0.41
2:H:527:TRP:HA	2:H:527:TRP:HE3	1.84	0.41
1:I:251:ARG:HH22	4:X:75:ASP:HA	1.85	0.41
2:J:35:LYS:HE2	3:R:137:GLN:NE2	2.32	0.41
2:J:216:GLU:O	2:J:217:TRP:C	2.63	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:545:LYS:HA	2:J:546:PRO:HD3	1.44	0.41
2:J:574:TYR:O	2:J:575:HIS:CB	2.68	0.41
1:K:152:TYR:O	1:K:155:LYS:HE2	2.19	0.41
1:K:400:CYS:O	1:K:403:GLY:N	2.54	0.41
2:L:433:CYS:O	2:L:435:ASN:C	2.64	0.41
3:M:112:GLU:OE1	3:M:135:ILE:HA	2.20	0.41
3:M:124:GLN:O	3:M:125:THR:O	2.39	0.41
3:N:43:GLU:O	3:N:45:MET:N	2.51	0.41
3:N:162:GLU:CD	3:N:207:MET:HE2	2.46	0.41
3:N:205:SER:O	3:N:399:GLU:OE1	2.38	0.41
3:N:305:SER:C	3:N:306:THR:HG23	2.46	0.41
3:N:335:VAL:O	3:N:337:GLU:O	2.38	0.41
3:P:34:MET:O	3:P:37:LEU:HB3	2.21	0.41
3:P:50:LEU:CD1	3:P:59:TRP:HE1	2.33	0.41
4:T:132:LEU:HA	4:T:135:ILE:HG22	2.03	0.41
3:V:242:VAL:HA	3:V:255:PHE:HB3	2.02	0.41
4:X:7:LEU:HD23	4:X:7:LEU:HA	1.55	0.41
4:X:113:ILE:O	4:X:114:LEU:C	2.62	0.41
1:A:185:GLU:CG	1:A:186:LYS:N	2.83	0.41
1:A:416:ARG:HD3	1:A:454:TYR:CE1	2.55	0.41
1:A:493:GLU:HG2	1:A:494:GLU:N	2.35	0.41
1:A:496:GLU:HA	1:A:497:PRO:HD3	1.94	0.41
2:B:4:SER:O	2:B:5:LYS:HG3	2.21	0.41
2:B:38:ILE:HD13	2:B:38:ILE:N	2.31	0.41
2:B:262:VAL:O	2:B:263:LEU:C	2.63	0.41
2:B:334:VAL:HG12	2:B:338:LYS:HE3	2.02	0.41
2:B:365:VAL:CG2	3:M:394:TYR:HA	2.51	0.41
2:B:462:ALA:O	2:B:466:LEU:HD13	2.20	0.41
2:B:560:LEU:O	2:B:564:ILE:HG13	2.21	0.41
1:C:35:ARG:HB2	1:C:65:PHE:CE2	2.56	0.41
1:C:372:LEU:H	1:C:372:LEU:CD1	2.31	0.41
1:C:418:HIS:O	1:C:419:ILE:C	2.63	0.41
1:C:446:THR:OG1	1:C:586:VAL:HG13	2.20	0.41
1:C:527:LEU:C	1:C:527:LEU:HD23	2.45	0.41
2:D:12:LYS:CG	2:D:13:GLY:N	2.72	0.41
2:D:51:PHE:HB3	2:D:52:PRO:CD	2.45	0.41
2:D:92:VAL:O	2:D:95:CYS:N	2.53	0.41
2:D:130:LEU:O	2:D:132:ASP:N	2.54	0.41
2:D:211:LEU:HD22	2:D:219:GLN:HA	2.02	0.41
2:D:333:TYR:CE2	3:N:48:PRO:HG3	2.56	0.41
2:D:365:VAL:CG2	3:N:394:TYR:HA	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:433:CYS:O	2:D:435:ASN:N	2.53	0.41
1:E:28:GLN:O	1:E:32:ALA:HB2	2.20	0.41
1:E:117:PHE:CD1	1:E:117:PHE:N	2.89	0.41
1:E:159:LEU:HD23	1:E:159:LEU:HA	1.89	0.41
1:E:267:MET:O	1:E:271:LEU:HD23	2.21	0.41
1:E:400:CYS:O	1:E:403:GLY:N	2.54	0.41
1:E:449:VAL:O	1:E:452:HIS:CD2	2.74	0.41
1:E:531:MET:O	1:E:534:SER:N	2.54	0.41
2:F:4:SER:O	2:F:5:LYS:HG3	2.21	0.41
2:F:102:ILE:O	2:F:103:ARG:C	2.63	0.41
2:F:142:ALA:O	2:F:145:VAL:HG23	2.20	0.41
2:F:518:ASP:O	2:F:519:LEU:C	2.64	0.41
2:F:560:LEU:O	2:F:564:ILE:HG13	2.21	0.41
1:G:28:GLN:O	1:G:32:ALA:HB2	2.20	0.41
1:G:463:ILE:HG13	1:G:463:ILE:H	1.56	0.41
1:I:11:ILE:O	1:I:12:ARG:C	2.63	0.41
1:I:35:ARG:HB2	1:I:65:PHE:CE2	2.56	0.41
1:I:209:LEU:HD22	1:I:213:ARG:NE	2.36	0.41
1:I:374:ASN:HB3	1:I:375:GLY:H	1.60	0.41
1:I:449:VAL:O	1:I:452:HIS:CD2	2.74	0.41
1:I:454:TYR:O	1:I:457:GLN:HB2	2.21	0.41
1:I:531:MET:O	1:I:534:SER:N	2.54	0.41
2:J:39:ALA:O	2:J:40:SER:C	2.64	0.41
2:J:130:LEU:O	2:J:132:ASP:N	2.53	0.41
2:J:174:PRO:O	2:J:175:MET:C	2.62	0.41
2:J:211:LEU:HD22	2:J:219:GLN:HA	2.02	0.41
2:J:216:GLU:O	2:J:220:ILE:HD13	2.21	0.41
2:J:216:GLU:CD	2:J:217:TRP:HZ3	2.28	0.41
2:J:303:LEU:HD23	2:J:303:LEU:HA	1.86	0.41
2:J:303:LEU:O	2:J:306:ILE:HB	2.20	0.41
2:J:341:ILE:N	2:J:341:ILE:HD12	2.35	0.41
2:J:426:GLU:HB2	2:J:427:SER:H	1.69	0.41
1:K:156:LYS:O	1:K:157:ALA:C	2.63	0.41
1:K:172:MET:HB2	1:K:201:MET:CE	2.46	0.41
1:K:183:LEU:HD23	1:K:183:LEU:HA	1.63	0.41
1:K:264:SER:OG	1:K:299:ILE:CG2	2.68	0.41
1:K:565:GLU:O	1:K:566:TYR:C	2.62	0.41
2:L:97:ASP:HA	2:L:98:PRO:HD3	1.51	0.41
2:L:130:LEU:O	2:L:132:ASP:N	2.54	0.41
2:L:347:SER:OG	2:L:348:GLN:N	2.52	0.41
3:M:277:ILE:HD12	3:M:380:PHE:HD2	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:M:312:ILE:CA	3:M:378:VAL:HG12	2.34	0.41
3:M:335:VAL:O	3:M:337:GLU:O	2.38	0.41
3:N:104:ARG:O	3:N:107:PHE:HE1	2.04	0.41
3:P:26:ASP:O	3:P:28:SER:N	2.54	0.41
3:P:65:LEU:HD11	3:P:99:GLU:H	1.85	0.41
3:P:106:ASN:O	3:P:109:ILE:HG13	2.21	0.41
3:P:213:GLY:HA3	3:P:394:TYR:CZ	2.55	0.41
3:R:108:VAL:O	3:R:111:TYR:HB2	2.21	0.41
4:S:117:PHE:O	4:S:117:PHE:HD1	2.04	0.41
4:S:132:LEU:HA	4:S:135:ILE:HG22	2.03	0.41
3:V:205:SER:O	3:V:399:GLU:OE1	2.38	0.41
4:W:29:LYS:O	4:W:30:LYS:C	2.63	0.41
4:W:59:TYR:CD2	4:W:59:TYR:C	2.96	0.41
4:X:117:PHE:O	4:X:117:PHE:HD1	2.04	0.41
4:X:132:LEU:C	4:X:135:ILE:HG22	2.41	0.41
1:A:256:LEU:C	1:A:258:ARG:H	2.28	0.41
1:A:307:VAL:O	1:A:308:LEU:C	2.64	0.41
1:A:353:CYS:O	1:A:354:LEU:C	2.63	0.41
1:A:374:ASN:HB3	1:A:375:GLY:H	1.60	0.41
1:A:454:TYR:O	1:A:457:GLN:HB2	2.21	0.41
2:B:355:LEU:O	2:B:358:LEU:N	2.54	0.41
2:B:378:GLY:O	2:B:380:CYS:N	2.54	0.41
2:B:433:CYS:O	2:B:435:ASN:N	2.53	0.41
1:C:201:MET:HE2	1:C:201:MET:HB3	1.90	0.41
1:C:208:MET:O	1:C:212:PHE:CB	2.66	0.41
1:C:267:MET:O	1:C:271:LEU:HD23	2.21	0.41
1:C:306:ARG:HD3	1:C:339:ASP:OD1	2.20	0.41
1:C:333:LEU:O	1:C:335:THR:N	2.54	0.41
1:C:529:ALA:HA	1:C:532:LYS:CD	2.50	0.41
2:D:348:GLN:C	2:D:350:ASN:N	2.77	0.41
1:E:118:VAL:C	1:E:120:GLY:N	2.77	0.41
2:F:74:MET:O	2:F:77:ALA:HB2	2.20	0.41
2:F:146:ALA:O	2:F:147:LYS:C	2.63	0.41
2:F:323:VAL:CG2	2:F:324:PHE:HD1	2.17	0.41
2:F:433:CYS:O	2:F:435:ASN:C	2.64	0.41
1:G:490:GLY:O	1:G:492:CYS:N	2.53	0.41
2:H:49:ALA:O	2:H:50:LEU:C	2.63	0.41
2:H:460:ASP:C	2:H:462:ALA:N	2.78	0.41
2:H:560:LEU:O	2:H:564:ILE:HG13	2.21	0.41
1:I:187:ASN:HD21	1:I:189:GLY:H	1.69	0.41
1:I:267:MET:O	1:I:271:LEU:HD23	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:508:ILE:O	1:I:512:VAL:HG23	2.21	0.41
1:I:513:LEU:H	1:I:513:LEU:CD1	2.34	0.41
1:I:529:ALA:HA	1:I:532:LYS:CD	2.50	0.41
2:J:38:ILE:O	2:J:39:ALA:C	2.64	0.41
2:J:142:ALA:O	2:J:145:VAL:HG23	2.20	0.41
2:J:146:ALA:O	2:J:147:LYS:C	2.63	0.41
2:J:174:PRO:C	2:J:176:VAL:N	2.79	0.41
1:K:209:LEU:HD22	1:K:213:ARG:NE	2.36	0.41
2:L:124:GLU:H	2:L:124:GLU:HG2	1.71	0.41
2:L:132:ASP:HB3	2:L:133:GLU:H	1.63	0.41
2:L:323:VAL:CG2	2:L:324:PHE:N	2.82	0.41
2:L:411:ILE:HD12	2:L:411:ILE:H	1.84	0.41
2:L:433:CYS:O	2:L:435:ASN:N	2.53	0.41
2:L:503:VAL:O	2:L:504:GLN:C	2.63	0.41
3:N:26:ASP:O	3:N:28:SER:N	2.54	0.41
3:N:34:MET:O	3:N:37:LEU:HB3	2.21	0.41
3:N:83:PHE:O	3:N:87:VAL:HG23	2.21	0.41
3:O:322:SER:HA	3:O:323:PRO:HD3	1.78	0.41
3:P:186:ASN:O	3:P:187:GLY:C	2.63	0.41
3:P:384:TYR:H	3:P:384:TYR:HD2	1.67	0.41
3:R:83:PHE:O	3:R:87:VAL:HG23	2.21	0.41
4:S:53:ARG:O	4:S:53:ARG:HG2	2.21	0.41
4:T:59:TYR:N	4:T:59:TYR:HD2	2.19	0.41
4:T:117:PHE:O	4:T:117:PHE:HD1	2.04	0.41
4:U:31:MET:HE3	4:U:53:ARG:NH1	2.35	0.41
3:V:124:GLN:O	3:V:125:THR:O	2.39	0.41
3:V:308:ASN:O	3:V:309:ASN:C	2.63	0.41
1:A:299:ILE:HG22	1:A:300:LYS:N	2.34	0.41
1:A:333:LEU:O	1:A:335:THR:N	2.54	0.41
1:A:400:CYS:O	1:A:403:GLY:N	2.54	0.41
1:A:406:LEU:HD23	1:A:406:LEU:HA	1.81	0.41
1:A:437:ALA:O	1:A:440:ASN:N	2.53	0.41
1:A:573:TYR:O	1:A:574:ASP:O	2.37	0.41
2:B:211:LEU:HD22	2:B:219:GLN:HA	2.02	0.41
1:C:152:TYR:HH	4:T:116:GLU:CD	2.25	0.41
1:C:267:MET:O	1:C:268:ASN:C	2.63	0.41
1:C:292:THR:O	1:C:296:ILE:HG13	2.20	0.41
1:C:306:ARG:O	1:C:309:ALA:HB3	2.20	0.41
2:D:216:GLU:O	2:D:220:ILE:HD13	2.21	0.41
2:D:334:VAL:HG12	2:D:338:LYS:HE3	2.03	0.41
2:D:452:VAL:HG11	2:D:466:LEU:HD11	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:463:ASP:HB2	2:D:464:GLU:H	1.70	0.41
2:D:518:ASP:O	2:D:519:LEU:C	2.64	0.41
2:D:560:LEU:O	2:D:564:ILE:HG13	2.21	0.41
1:E:254:ARG:HB2	1:E:295:THR:CB	2.51	0.41
1:E:454:TYR:O	1:E:457:GLN:HB2	2.21	0.41
1:E:490:GLY:O	1:E:492:CYS:N	2.53	0.41
2:F:301:VAL:O	2:F:302:PRO:C	2.62	0.41
2:F:378:GLY:O	2:F:380:CYS:N	2.54	0.41
1:G:35:ARG:C	1:G:37:SER:N	2.79	0.41
1:G:35:ARG:HB2	1:G:65:PHE:CE2	2.56	0.41
1:G:100:HIS:O	1:G:103:MET:HB3	2.20	0.41
1:G:249:ILE:HG22	1:G:250:LEU:N	2.36	0.41
1:G:271:LEU:HD12	1:G:296:ILE:HG13	2.01	0.41
1:G:382:MET:O	1:G:383:LYS:C	2.63	0.41
1:G:454:TYR:O	1:G:457:GLN:HB2	2.20	0.41
1:G:508:ILE:O	1:G:512:VAL:HG23	2.21	0.41
2:H:38:ILE:O	2:H:39:ALA:C	2.64	0.41
2:H:49:ALA:O	2:H:52:PRO:HD2	2.20	0.41
2:H:75:ASN:C	2:H:77:ALA:N	2.79	0.41
2:H:257:LEU:HD11	2:H:567:ILE:C	2.45	0.41
2:H:355:LEU:O	2:H:358:LEU:N	2.54	0.41
2:H:411:ILE:HG13	2:H:432:LEU:HD11	2.02	0.41
1:I:416:ARG:HD3	1:I:454:TYR:CE1	2.55	0.41
1:I:493:GLU:HG2	1:I:494:GLU:H	1.86	0.41
2:J:144:CYS:C	2:J:148:LEU:CD1	2.94	0.41
2:J:518:ASP:O	2:J:519:LEU:C	2.64	0.41
2:J:527:TRP:HA	2:J:527:TRP:CE3	2.56	0.41
1:K:249:ILE:HG22	1:K:250:LEU:N	2.36	0.41
1:K:289:LEU:HD12	1:K:289:LEU:H	1.86	0.41
1:K:470:GLN:CB	1:K:471:PRO:CD	2.97	0.41
2:L:88:VAL:O	2:L:91:PHE:N	2.50	0.41
2:L:144:CYS:C	2:L:148:LEU:CD1	2.94	0.41
2:L:216:GLU:O	2:L:217:TRP:C	2.63	0.41
2:L:285:ALA:CB	2:L:286:PRO:CD	2.87	0.41
2:L:303:LEU:O	2:L:306:ILE:HB	2.20	0.41
2:L:348:GLN:C	2:L:350:ASN:N	2.77	0.41
2:L:365:VAL:CG2	3:V:394:TYR:HA	2.51	0.41
3:M:103:ILE:O	3:M:105:ASP:N	2.53	0.41
3:M:283:ILE:C	3:M:284:GLU:HG3	2.46	0.41
3:N:77:VAL:C	3:N:79:LEU:N	2.79	0.41
3:N:86:LYS:O	3:N:89:GLN:CB	2.64	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:108:VAL:O	3:N:109:ILE:C	2.61	0.41
3:O:104:ARG:O	3:O:107:PHE:HE1	2.04	0.41
3:O:110:ILE:O	3:O:111:TYR:C	2.64	0.41
3:P:112:GLU:OE1	3:P:135:ILE:HA	2.20	0.41
3:P:264:LEU:O	3:P:265:MET:HB2	2.21	0.41
4:Q:53:ARG:O	4:Q:53:ARG:HG2	2.21	0.41
3:R:325:PHE:HD1	3:R:332:VAL:HB	1.86	0.41
3:V:24:ASP:C	3:V:26:ASP:N	2.71	0.41
3:V:34:MET:O	3:V:37:LEU:HB3	2.21	0.41
4:W:135:ILE:HD12	4:W:135:ILE:HA	1.90	0.41
4:X:35:LEU:HD11	4:X:52:TRP:CE3	2.56	0.41
1:A:35:ARG:HB2	1:A:65:PHE:CE2	2.56	0.41
1:A:89:ALA:O	1:A:91:LEU:N	2.54	0.41
1:A:104:THR:O	1:A:105:ASN:C	2.64	0.41
1:A:117:PHE:CD1	1:A:117:PHE:N	2.88	0.41
1:A:208:MET:O	1:A:209:LEU:C	2.63	0.41
1:A:209:LEU:HD22	1:A:213:ARG:NE	2.36	0.41
1:A:344:GLN:C	1:A:346:HIS:N	2.74	0.41
1:A:353:CYS:O	1:A:355:LYS:N	2.54	0.41
1:A:396:PHE:N	1:A:396:PHE:HD1	2.17	0.41
1:A:493:GLU:HG2	1:A:494:GLU:H	1.86	0.41
1:A:493:GLU:C	1:A:495:GLU:H	2.28	0.41
1:A:527:LEU:C	1:A:527:LEU:HD23	2.45	0.41
1:A:566:TYR:O	1:A:569:LEU:HB2	2.20	0.41
2:B:95:CYS:O	2:B:103:ARG:CB	2.69	0.41
2:B:292:LEU:O	2:B:294:ALA:N	2.54	0.41
2:B:333:TYR:CE2	3:M:48:PRO:HG3	2.56	0.41
2:B:341:ILE:HG22	2:B:342:MET:N	2.36	0.41
2:B:351:ILE:HD11	2:B:384:VAL:HG21	2.03	0.41
2:B:470:LEU:O	2:B:473:PHE:N	2.54	0.41
1:C:11:ILE:HG12	1:C:55:TYR:CD2	2.55	0.41
1:C:38:PHE:N	1:C:38:PHE:CD2	2.86	0.41
1:C:75:ALA:O	1:C:76:SER:C	2.64	0.41
1:C:100:HIS:O	1:C:103:MET:HB3	2.21	0.41
1:C:116:GLN:O	1:C:119:GLN:HB2	2.21	0.41
1:C:124:CYS:O	1:C:125:THR:C	2.63	0.41
1:C:220:VAL:O	1:C:221:ARG:C	2.64	0.41
1:C:247:VAL:HG13	1:C:291:GLU:HG2	2.02	0.41
1:C:249:ILE:HG22	1:C:250:LEU:N	2.36	0.41
1:C:254:ARG:HB2	1:C:295:THR:CB	2.51	0.41
1:C:271:LEU:HD12	1:C:296:ILE:HG13	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:333:LEU:C	1:C:335:THR:N	2.79	0.41
1:C:433:VAL:HG12	1:C:434:ARG:N	2.36	0.41
1:C:460:TYR:CZ	1:C:464:LEU:HD21	2.55	0.41
1:C:481:GLY:HA2	1:C:533:LEU:HD21	2.03	0.41
1:C:559:LEU:O	1:C:560:GLN:C	2.61	0.41
2:D:85:ILE:H	2:D:85:ILE:HG13	1.66	0.41
2:D:95:CYS:O	2:D:103:ARG:CB	2.69	0.41
2:D:355:LEU:O	2:D:358:LEU:N	2.54	0.41
2:D:361:TYR:O	2:D:362:ALA:C	2.62	0.41
2:D:378:GLY:O	2:D:380:CYS:N	2.54	0.41
2:D:387:SER:O	2:D:390:ARG:HB2	2.20	0.41
2:D:540:VAL:HG12	2:D:541:VAL:N	2.36	0.41
1:E:35:ARG:HB2	1:E:65:PHE:CE2	2.56	0.41
1:E:47:CYS:O	1:E:48:ARG:C	2.64	0.41
1:E:137:ASP:CB	1:E:138:LEU:HD22	2.49	0.41
1:E:187:ASN:HD21	1:E:189:GLY:H	1.69	0.41
1:E:267:MET:O	1:E:268:ASN:C	2.63	0.41
1:E:433:VAL:HG12	1:E:434:ARG:N	2.36	0.41
1:E:446:THR:OG1	1:E:586:VAL:HG13	2.20	0.41
1:E:460:TYR:CZ	1:E:464:LEU:HD21	2.55	0.41
1:E:477:ALA:O	1:E:478:TRP:C	2.63	0.41
1:E:527:LEU:C	1:E:527:LEU:HD23	2.45	0.41
1:E:529:ALA:HA	1:E:532:LYS:CD	2.50	0.41
2:F:49:ALA:O	2:F:50:LEU:C	2.63	0.41
2:F:130:LEU:O	2:F:132:ASP:N	2.53	0.41
2:F:355:LEU:O	2:F:358:LEU:N	2.54	0.41
2:F:389:GLU:O	2:F:392:VAL:N	2.54	0.41
2:F:548:ILE:HG22	2:F:549:SER:N	2.36	0.41
1:G:10:LEU:O	1:G:13:THR:HB	2.21	0.41
1:G:124:CYS:O	1:G:125:THR:C	2.63	0.41
1:G:131:SER:O	1:G:132:SER:O	2.38	0.41
1:G:273:GLN:O	1:G:274:VAL:C	2.63	0.41
1:G:333:LEU:O	1:G:335:THR:N	2.54	0.41
1:G:400:CYS:O	1:G:403:GLY:N	2.54	0.41
1:G:433:VAL:HG12	1:G:434:ARG:N	2.36	0.41
1:G:449:VAL:O	1:G:452:HIS:CD2	2.74	0.41
1:G:531:MET:O	1:G:534:SER:N	2.54	0.41
2:H:56:ASN:C	2:H:58:MET:H	2.25	0.41
2:H:124:GLU:H	2:H:124:GLU:HG2	1.71	0.41
2:H:144:CYS:C	2:H:148:LEU:CD1	2.94	0.41
2:H:304:ARG:NE	2:H:573:VAL:O	2.42	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:333:TYR:CE2	3:P:48:PRO:HG3	2.56	0.41
2:H:351:ILE:HD11	2:H:384:VAL:HG21	2.03	0.41
2:H:365:VAL:CG2	3:P:394:TYR:HA	2.51	0.41
2:H:461:ASN:HB3	2:H:465:LEU:CD1	2.49	0.41
2:H:462:ALA:O	2:H:466:LEU:HD13	2.20	0.41
2:H:518:ASP:O	2:H:519:LEU:C	2.64	0.41
1:I:30:GLU:O	1:I:31:CYS:C	2.64	0.41
1:I:67:GLN:O	1:I:70:CYS:CB	2.56	0.41
1:I:333:LEU:O	1:I:335:THR:N	2.54	0.41
1:I:382:MET:O	1:I:383:LYS:C	2.63	0.41
1:I:445:ILE:HG22	1:I:446:THR:N	2.36	0.41
1:I:547:VAL:O	1:I:548:VAL:C	2.62	0.41
2:J:4:SER:O	2:J:5:LYS:HG3	2.21	0.41
2:J:92:VAL:O	2:J:95:CYS:N	2.53	0.41
2:J:262:VAL:O	2:J:263:LEU:C	2.63	0.41
2:J:262:VAL:CG2	2:J:263:LEU:N	2.83	0.41
2:J:371:ARG:C	2:J:373:ALA:N	2.77	0.41
2:J:378:GLY:O	2:J:380:CYS:N	2.54	0.41
2:J:411:ILE:HG13	2:J:432:LEU:HD11	2.02	0.41
2:J:495:LYS:O	2:J:496:PRO:O	2.38	0.41
2:J:548:ILE:HG22	2:J:549:SER:N	2.36	0.41
1:K:111:LEU:HD23	1:K:111:LEU:HA	1.90	0.41
1:K:131:SER:O	1:K:132:SER:O	2.38	0.41
1:K:185:GLU:CG	1:K:186:LYS:N	2.83	0.41
1:K:270:ILE:CG2	1:K:271:LEU:N	2.84	0.41
1:K:271:LEU:HD12	1:K:296:ILE:HG13	2.01	0.41
1:K:282:LYS:O	1:K:283:ASN:C	2.63	0.41
1:K:353:CYS:O	1:K:355:LYS:N	2.54	0.41
1:K:358:ASP:OD1	1:K:358:ASP:C	2.64	0.41
1:K:382:MET:O	1:K:383:LYS:C	2.63	0.41
1:K:449:VAL:O	1:K:452:HIS:CD2	2.74	0.41
2:L:4:SER:O	2:L:5:LYS:HG3	2.21	0.41
2:L:142:ALA:O	2:L:145:VAL:HG23	2.20	0.41
2:L:148:LEU:CA	2:L:151:ILE:HG13	2.49	0.41
2:L:211:LEU:HD22	2:L:219:GLN:HA	2.02	0.41
2:L:355:LEU:HD23	2:L:355:LEU:N	2.36	0.41
2:L:371:ARG:C	2:L:373:ALA:N	2.77	0.41
2:L:510:ALA:HB1	2:L:519:LEU:CD1	2.41	0.41
2:L:525:ILE:HG22	2:L:526:TYR:N	2.35	0.41
2:L:574:TYR:O	2:L:575:HIS:CB	2.68	0.41
3:M:67:LEU:C	3:M:68:VAL:CG2	2.94	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:M:101:GLU:O	3:M:102:SER:C	2.64	0.41
3:M:247:PHE:HB2	3:M:248:GLU:H	1.62	0.41
3:N:65:LEU:HD11	3:N:99:GLU:H	1.85	0.41
3:N:67:LEU:C	3:N:68:VAL:CG2	2.94	0.41
3:N:308:ASN:O	3:N:309:ASN:C	2.63	0.41
3:N:325:PHE:HD1	3:N:332:VAL:HB	1.86	0.41
3:O:83:PHE:O	3:O:87:VAL:HG23	2.21	0.41
3:O:277:ILE:HD12	3:O:380:PHE:HD2	1.86	0.41
3:P:104:ARG:C	3:P:107:PHE:CE1	2.99	0.41
3:P:269:LEU:N	3:P:269:LEU:CD2	2.70	0.41
4:Q:29:LYS:O	4:Q:30:LYS:C	2.63	0.41
4:Q:59:TYR:CD2	4:Q:59:TYR:C	2.96	0.41
4:Q:114:LEU:O	4:Q:115:ASP:C	2.62	0.41
4:Q:117:PHE:O	4:Q:117:PHE:HD1	2.04	0.41
3:R:8:VAL:HG11	3:R:103:ILE:CD1	2.50	0.41
3:R:16:LEU:HD13	3:R:16:LEU:O	2.20	0.41
3:R:52:HIS:ND1	3:R:52:HIS:C	2.79	0.41
3:R:103:ILE:O	3:R:105:ASP:N	2.53	0.41
3:R:133:GLU:OE2	3:R:134:PHE:HE1	2.02	0.41
3:R:205:SER:O	3:R:399:GLU:OE1	2.38	0.41
3:R:242:VAL:HA	3:R:255:PHE:HB3	2.02	0.41
3:R:283:ILE:C	3:R:284:GLU:HG3	2.46	0.41
3:R:384:TYR:HD2	3:R:384:TYR:H	1.67	0.41
4:S:59:TYR:N	4:S:59:TYR:HD2	2.19	0.41
4:U:53:ARG:O	4:U:53:ARG:HG2	2.21	0.41
4:U:53:ARG:O	4:U:54:ASP:CB	2.63	0.41
3:V:67:LEU:C	3:V:68:VAL:CG2	2.94	0.41
3:V:106:ASN:O	3:V:109:ILE:HG13	2.21	0.41
3:V:305:SER:C	3:V:306:THR:HG23	2.46	0.41
3:V:312:ILE:CA	3:V:378:VAL:HG12	2.34	0.41
3:V:384:TYR:N	3:V:384:TYR:HD2	2.15	0.41
4:X:59:TYR:CD2	4:X:59:TYR:C	2.96	0.41
4:X:65:LEU:HD12	4:X:65:LEU:HA	1.75	0.41
4:X:96:GLY:C	4:X:97:SER:OG	2.64	0.41
4:X:132:LEU:HA	4:X:135:ILE:HG22	2.03	0.41
1:A:10:LEU:O	1:A:13:THR:HB	2.21	0.41
1:A:254:ARG:HB2	1:A:295:THR:CB	2.51	0.41
1:A:323:ASN:O	1:A:326:TYR:N	2.45	0.41
1:A:478:TRP:O	1:A:481:GLY:N	2.54	0.41
1:A:508:ILE:O	1:A:512:VAL:HG23	2.21	0.41
2:B:148:LEU:N	2:B:148:LEU:CD1	2.80	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:174:PRO:C	2:B:176:VAL:N	2.79	0.41
2:B:398:LEU:O	2:B:401:THR:OG1	2.30	0.41
2:B:411:ILE:HG13	2:B:432:LEU:HD11	2.02	0.41
2:B:532:THR:HG22	2:B:533:ASP:N	2.36	0.41
1:C:35:ARG:C	1:C:37:SER:N	2.78	0.41
1:C:209:LEU:HD22	1:C:213:ARG:NE	2.35	0.41
1:C:212:PHE:HZ	1:C:260:ASP:CB	2.33	0.41
1:C:449:VAL:O	1:C:452:HIS:CD2	2.74	0.41
2:D:49:ALA:O	2:D:52:PRO:HD2	2.20	0.41
2:D:71:LEU:O	2:D:74:MET:CB	2.67	0.41
2:D:74:MET:O	2:D:77:ALA:HB2	2.20	0.41
2:D:184:LEU:HA	2:D:184:LEU:HD12	1.88	0.41
2:D:292:LEU:O	2:D:294:ALA:N	2.54	0.41
1:E:212:PHE:HZ	1:E:260:ASP:CB	2.33	0.41
1:E:220:VAL:O	1:E:221:ARG:C	2.64	0.41
1:E:306:ARG:O	1:E:309:ALA:HB3	2.20	0.41
1:E:457:GLN:O	1:E:458:ARG:C	2.64	0.41
2:F:97:ASP:OD1	2:F:98:PRO:CD	2.69	0.41
2:F:348:GLN:C	2:F:350:ASN:N	2.77	0.41
2:F:527:TRP:HA	2:F:527:TRP:CE3	2.56	0.41
1:G:30:GLU:O	1:G:31:CYS:C	2.63	0.41
2:H:4:SER:O	2:H:5:LYS:HG3	2.21	0.41
2:H:142:ALA:O	2:H:145:VAL:HB	2.21	0.41
2:H:174:PRO:O	2:H:175:MET:C	2.62	0.41
2:H:216:GLU:O	2:H:220:ILE:HD13	2.21	0.41
2:H:223:LEU:C	2:H:225:CYS:N	2.78	0.41
1:I:124:CYS:O	1:I:125:THR:C	2.63	0.41
1:I:247:VAL:HG13	1:I:291:GLU:HG2	2.02	0.41
1:I:254:ARG:HB2	1:I:295:THR:CB	2.51	0.41
1:I:256:LEU:C	1:I:258:ARG:H	2.28	0.41
1:I:377:ASN:ND2	1:I:377:ASN:C	2.79	0.41
1:I:400:CYS:O	1:I:403:GLY:N	2.54	0.41
1:I:418:HIS:O	1:I:419:ILE:C	2.63	0.41
1:I:430:GLY:HA2	1:I:433:VAL:CG2	2.51	0.41
1:I:531:MET:HE2	1:I:531:MET:HB3	1.87	0.41
2:J:351:ILE:HD11	2:J:384:VAL:HG21	2.03	0.41
2:J:355:LEU:HD23	2:J:355:LEU:N	2.36	0.41
2:J:462:ALA:O	2:J:463:ASP:C	2.64	0.41
2:J:532:THR:HG22	2:J:533:ASP:N	2.35	0.41
1:K:35:ARG:C	1:K:37:SER:N	2.78	0.41
1:K:100:HIS:O	1:K:103:MET:HB3	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:247:VAL:HG13	1:K:291:GLU:HG2	2.02	0.41
1:K:353:CYS:O	1:K:354:LEU:C	2.63	0.41
1:K:531:MET:O	1:K:534:SER:N	2.54	0.41
1:K:566:TYR:O	1:K:569:LEU:HB2	2.21	0.41
1:K:581:LEU:C	1:K:583:ARG:N	2.69	0.41
2:L:95:CYS:O	2:L:103:ARG:CB	2.69	0.41
2:L:125:PRO:O	2:L:128:LYS:HB2	2.21	0.41
2:L:216:GLU:O	2:L:220:ILE:HD13	2.21	0.41
2:L:313:ARG:HA	2:L:313:ARG:HD3	1.82	0.41
2:L:378:GLY:O	2:L:380:CYS:N	2.54	0.41
2:L:470:LEU:O	2:L:473:PHE:N	2.54	0.41
2:L:540:VAL:HG12	2:L:541:VAL:N	2.36	0.41
2:L:560:LEU:O	2:L:564:ILE:HG13	2.21	0.41
2:L:573:VAL:CG1	2:L:574:TYR:N	2.83	0.41
3:M:67:LEU:C	3:M:68:VAL:HG23	2.46	0.41
3:M:388:SER:HG	3:M:390:ILE:HG13	1.86	0.41
3:N:52:HIS:ND1	3:N:52:HIS:C	2.79	0.41
3:N:67:LEU:C	3:N:68:VAL:HG23	2.46	0.41
3:O:186:ASN:O	3:O:187:GLY:C	2.63	0.41
3:O:314:ILE:HG12	3:O:376:ILE:CD1	2.50	0.41
3:P:77:VAL:C	3:P:79:LEU:N	2.78	0.41
3:P:305:SER:C	3:P:306:THR:HG23	2.46	0.41
4:Q:35:LEU:HD11	4:Q:52:TRP:CE3	2.56	0.41
4:Q:132:LEU:C	4:Q:135:ILE:HG22	2.41	0.41
4:Q:132:LEU:HA	4:Q:135:ILE:HG22	2.03	0.41
3:R:264:LEU:O	3:R:265:MET:HB2	2.21	0.41
3:R:314:ILE:HG12	3:R:376:ILE:CD1	2.50	0.41
4:T:89:GLU:HG2	4:T:128:LYS:HE2	2.03	0.41
3:V:118:MET:HA	3:V:123:PRO:HA	2.01	0.41
4:W:31:MET:CE	4:W:53:ARG:NH1	2.84	0.41
4:X:53:ARG:O	4:X:53:ARG:HG2	2.21	0.41
1:A:47:CYS:O	1:A:48:ARG:C	2.64	0.40
1:A:68:LEU:C	1:A:70:CYS:N	2.77	0.40
1:A:95:GLU:OE2	1:A:95:GLU:N	2.54	0.40
1:A:333:LEU:C	1:A:335:THR:N	2.79	0.40
1:A:463:ILE:CD1	1:A:476:ALA:CB	2.96	0.40
2:B:39:ALA:O	2:B:40:SER:C	2.64	0.40
2:B:51:PHE:HB3	2:B:52:PRO:CD	2.45	0.40
2:B:88:VAL:O	2:B:91:PHE:N	2.50	0.40
2:B:97:ASP:OD1	2:B:98:PRO:CD	2.69	0.40
2:B:229:TYR:HB3	2:B:230:MET:H	1.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:433:CYS:O	2:B:435:ASN:C	2.64	0.40
2:B:495:LYS:O	2:B:496:PRO:O	2.38	0.40
1:C:111:LEU:HD23	1:C:111:LEU:HA	1.90	0.40
1:C:240:ILE:HD12	1:C:284:VAL:CG1	2.52	0.40
1:C:273:GLN:O	1:C:274:VAL:C	2.63	0.40
1:C:365:ALA:O	1:C:366:MET:C	2.64	0.40
1:C:455:THR:C	1:C:457:GLN:N	2.75	0.40
1:C:477:ALA:O	1:C:478:TRP:C	2.63	0.40
1:C:478:TRP:O	1:C:481:GLY:N	2.54	0.40
1:C:540:THR:O	1:C:540:THR:HG22	2.20	0.40
2:D:188:ALA:CB	2:D:195:ASN:HB3	2.48	0.40
2:D:341:ILE:HG22	2:D:342:MET:N	2.36	0.40
1:E:71:LEU:C	1:E:73:LEU:N	2.78	0.40
1:E:104:THR:O	1:E:105:ASN:C	2.64	0.40
1:E:332:LEU:HD12	1:E:332:LEU:HA	1.94	0.40
1:E:416:ARG:HD3	1:E:454:TYR:CE1	2.55	0.40
1:E:508:ILE:O	1:E:512:VAL:HG23	2.21	0.40
2:F:100:PRO:HA	2:F:103:ARG:CG	2.46	0.40
2:F:211:LEU:HD22	2:F:219:GLN:HA	2.02	0.40
2:F:297:GLU:H	2:F:297:GLU:HG3	1.66	0.40
2:F:470:LEU:O	2:F:473:PHE:N	2.54	0.40
1:G:89:ALA:O	1:G:91:LEU:N	2.54	0.40
1:G:254:ARG:HB2	1:G:295:THR:CB	2.51	0.40
1:G:358:ASP:OD1	1:G:358:ASP:C	2.64	0.40
1:G:418:HIS:O	1:G:419:ILE:C	2.63	0.40
1:G:481:GLY:HA2	1:G:533:LEU:HD21	2.03	0.40
1:G:493:GLU:C	1:G:495:GLU:H	2.28	0.40
1:G:513:LEU:H	1:G:513:LEU:CD1	2.34	0.40
1:G:565:GLU:O	1:G:566:TYR:C	2.62	0.40
2:H:250:HIS:HB3	2:H:251:ALA:H	1.70	0.40
2:H:336:LEU:O	2:H:337:GLU:C	2.62	0.40
2:H:433:CYS:O	2:H:435:ASN:C	2.64	0.40
1:I:71:LEU:C	1:I:73:LEU:N	2.78	0.40
1:I:89:ALA:O	1:I:91:LEU:N	2.54	0.40
1:I:154:ARG:HH21	1:I:182:LEU:HD23	1.86	0.40
1:I:267:MET:O	1:I:268:ASN:C	2.63	0.40
1:I:287:ALA:HA	4:X:78:LEU:HD13	2.02	0.40
2:J:30:LYS:H	2:J:30:LYS:HG3	1.70	0.40
2:J:336:LEU:O	2:J:337:GLU:C	2.62	0.40
2:J:341:ILE:HG22	2:J:342:MET:N	2.36	0.40
2:J:470:LEU:O	2:J:473:PHE:N	2.54	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:540:VAL:HG12	2:J:541:VAL:N	2.36	0.40
1:K:215:LEU:H	1:K:215:LEU:HG	1.53	0.40
1:K:220:VAL:O	1:K:221:ARG:C	2.64	0.40
1:K:240:ILE:HD12	1:K:284:VAL:CG1	2.52	0.40
1:K:287:ALA:HA	4:W:78:LEU:HD13	2.02	0.40
1:K:389:LEU:HD13	1:K:400:CYS:HB3	2.02	0.40
1:K:457:GLN:O	1:K:460:TYR:N	2.55	0.40
2:L:38:ILE:O	2:L:39:ALA:C	2.64	0.40
2:L:229:TYR:HB3	2:L:230:MET:H	1.21	0.40
2:L:355:LEU:O	2:L:358:LEU:N	2.54	0.40
3:M:26:ASP:O	3:M:28:SER:N	2.53	0.40
3:M:79:LEU:HB2	3:M:80:VAL:H	1.51	0.40
3:N:12:LYS:HE3	3:N:12:LYS:HB2	1.97	0.40
3:N:184:SER:C	3:N:186:ASN:N	2.77	0.40
3:N:212:LEU:HD12	3:N:212:LEU:C	2.47	0.40
3:N:213:GLY:HA3	3:N:394:TYR:CZ	2.55	0.40
3:O:67:LEU:C	3:O:68:VAL:CG2	2.94	0.40
3:O:305:SER:C	3:O:306:THR:HG23	2.46	0.40
3:O:395:LEU:HD12	3:O:395:LEU:HA	1.69	0.40
3:R:34:MET:O	3:R:37:LEU:HB3	2.21	0.40
3:R:97:GLU:O	3:R:102:SER:OG	2.35	0.40
3:R:106:ASN:O	3:R:109:ILE:HG13	2.21	0.40
4:S:29:LYS:O	4:S:30:LYS:C	2.63	0.40
3:V:52:HIS:ND1	3:V:52:HIS:C	2.79	0.40
3:V:264:LEU:O	3:V:265:MET:HB2	2.21	0.40
4:W:53:ARG:O	4:W:53:ARG:HG2	2.21	0.40
1:A:200:GLU:O	1:A:203:GLU:HG2	2.22	0.40
1:A:220:VAL:O	1:A:221:ARG:C	2.64	0.40
1:A:240:ILE:HD12	1:A:284:VAL:CG1	2.52	0.40
1:A:271:LEU:HD12	1:A:296:ILE:HG13	2.01	0.40
1:A:306:ARG:HD3	1:A:339:ASP:CG	2.47	0.40
1:A:306:ARG:HD3	1:A:339:ASP:OD1	2.20	0.40
1:A:460:TYR:CE2	1:A:464:LEU:HD21	2.56	0.40
2:B:56:ASN:C	2:B:58:MET:H	2.25	0.40
2:B:370:VAL:O	2:B:371:ARG:C	2.61	0.40
1:C:10:LEU:O	1:C:13:THR:HB	2.21	0.40
1:C:11:ILE:O	1:C:12:ARG:C	2.63	0.40
1:C:267:MET:HE1	1:C:299:ILE:HD12	2.00	0.40
1:C:306:ARG:HD3	1:C:339:ASP:CG	2.47	0.40
1:C:353:CYS:O	1:C:355:LYS:N	2.54	0.40
1:C:406:LEU:HD23	1:C:406:LEU:HA	1.81	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:457:GLN:O	1:C:460:TYR:N	2.55	0.40
1:C:493:GLU:HG2	1:C:494:GLU:H	1.86	0.40
2:D:125:PRO:O	2:D:128:LYS:HB2	2.21	0.40
2:D:351:ILE:HD11	2:D:384:VAL:HG21	2.03	0.40
2:D:395:LEU:HD23	2:D:395:LEU:HA	1.85	0.40
2:D:433:CYS:O	2:D:435:ASN:C	2.64	0.40
2:D:532:THR:HG22	2:D:533:ASP:N	2.36	0.40
1:E:89:ALA:O	1:E:91:LEU:N	2.54	0.40
1:E:131:SER:O	1:E:132:SER:O	2.38	0.40
1:E:183:LEU:HD12	1:E:215:LEU:HB3	2.02	0.40
1:E:358:ASP:HB3	1:E:361:ILE:CD1	2.38	0.40
1:E:358:ASP:C	1:E:358:ASP:OD1	2.64	0.40
1:E:481:GLY:HA2	1:E:533:LEU:HD21	2.03	0.40
2:F:72:TYR:CZ	2:F:76:TYR:HE2	2.40	0.40
2:F:370:VAL:O	2:F:371:ARG:C	2.61	0.40
2:F:503:VAL:O	2:F:504:GLN:C	2.63	0.40
2:F:532:THR:HG22	2:F:533:ASP:N	2.36	0.40
2:F:573:VAL:CG1	2:F:574:TYR:N	2.83	0.40
1:G:75:ALA:O	1:G:76:SER:C	2.64	0.40
1:G:105:ASN:HD22	1:G:105:ASN:HA	1.64	0.40
1:G:146:LEU:C	1:G:146:LEU:CD2	2.95	0.40
1:G:158:ALA:O	1:G:159:LEU:C	2.63	0.40
1:G:253:LEU:H	1:G:253:LEU:HG	1.69	0.40
1:G:353:CYS:O	1:G:355:LYS:N	2.54	0.40
2:H:174:PRO:C	2:H:176:VAL:N	2.79	0.40
2:H:262:VAL:O	2:H:265:LYS:N	2.54	0.40
2:H:389:GLU:O	2:H:392:VAL:N	2.54	0.40
2:H:446:ALA:O	2:H:449:ILE:N	2.55	0.40
2:H:462:ALA:O	2:H:463:ASP:C	2.64	0.40
1:I:168:VAL:HG12	1:I:171:LEU:HG	2.03	0.40
1:I:317:LEU:HD23	1:I:328:ALA:HB1	2.02	0.40
1:I:353:CYS:O	1:I:355:LYS:N	2.54	0.40
1:I:433:VAL:HG12	1:I:434:ARG:N	2.36	0.40
1:I:437:ALA:O	1:I:440:ASN:N	2.53	0.40
1:I:455:THR:C	1:I:457:GLN:N	2.75	0.40
2:J:142:ALA:O	2:J:145:VAL:HB	2.21	0.40
2:J:184:LEU:HA	2:J:184:LEU:HD12	1.88	0.40
2:J:433:CYS:O	2:J:435:ASN:C	2.64	0.40
1:K:75:ALA:O	1:K:76:SER:C	2.63	0.40
1:K:95:GLU:N	1:K:95:GLU:OE2	2.55	0.40
1:K:267:MET:O	1:K:268:ASN:C	2.63	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:301:SER:O	1:K:302:GLU:C	2.64	0.40
1:K:307:VAL:O	1:K:308:LEU:C	2.64	0.40
1:K:365:ALA:O	1:K:366:MET:C	2.65	0.40
1:K:446:THR:OG1	1:K:586:VAL:HG13	2.20	0.40
1:K:493:GLU:HG2	1:K:494:GLU:H	1.86	0.40
1:K:529:ALA:HA	1:K:532:LYS:CD	2.50	0.40
1:K:529:ALA:O	1:K:532:LYS:HG3	2.21	0.40
2:L:462:ALA:O	2:L:466:LEU:HD13	2.20	0.40
2:L:527:TRP:HA	2:L:527:TRP:CE3	2.56	0.40
3:M:104:ARG:O	3:M:107:PHE:HE1	2.04	0.40
3:M:108:VAL:O	3:M:111:TYR:HB2	2.21	0.40
3:M:416:GLY:C	3:M:418:TYR:N	2.65	0.40
3:N:108:VAL:O	3:N:111:TYR:HB2	2.21	0.40
3:O:67:LEU:C	3:O:68:VAL:HG23	2.46	0.40
3:O:205:SER:O	3:O:399:GLU:OE1	2.38	0.40
3:P:212:LEU:HD12	3:P:212:LEU:C	2.47	0.40
3:P:315:PRO:HG2	3:P:374:PRO:O	2.22	0.40
3:P:322:SER:HA	3:P:323:PRO:HD3	1.79	0.40
4:Q:126:THR:O	4:Q:127:SER:C	2.65	0.40
3:R:67:LEU:C	3:R:68:VAL:HG23	2.46	0.40
4:T:59:TYR:CD2	4:T:59:TYR:C	2.96	0.40
4:T:79:ILE:CG2	4:T:80:THR:H	2.32	0.40
4:T:89:GLU:O	4:T:90:LEU:C	2.65	0.40
4:T:117:PHE:C	4:T:124:GLN:HG2	2.47	0.40
3:V:108:VAL:O	3:V:111:TYR:HB2	2.21	0.40
3:V:130:ILE:O	3:V:130:ILE:CG2	2.67	0.40
1:A:159:LEU:O	1:A:162:VAL:CB	2.62	0.40
1:A:187:ASN:HD21	1:A:189:GLY:H	1.69	0.40
1:A:457:GLN:O	1:A:460:TYR:N	2.55	0.40
1:A:513:LEU:H	1:A:513:LEU:CD1	2.34	0.40
2:B:124:GLU:H	2:B:124:GLU:HG2	1.71	0.40
2:B:134:ASP:O	2:B:138:ARG:CG	2.64	0.40
2:B:436:LEU:C	2:B:436:LEU:CD1	2.83	0.40
2:B:547:LEU:HD23	2:B:547:LEU:HA	1.93	0.40
2:B:548:ILE:HG22	2:B:549:SER:N	2.36	0.40
1:C:54:LEU:HD23	1:C:54:LEU:HA	1.88	0.40
1:C:95:GLU:OE2	1:C:95:GLU:N	2.55	0.40
1:C:307:VAL:O	1:C:308:LEU:C	2.64	0.40
1:C:370:PHE:HD2	1:C:370:PHE:HA	1.65	0.40
1:C:400:CYS:O	1:C:403:GLY:N	2.54	0.40
1:C:454:TYR:O	1:C:457:GLN:HB2	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:496:GLU:HA	1:C:497:PRO:HD3	1.94	0.40
1:C:531:MET:O	1:C:534:SER:N	2.54	0.40
1:C:539:CYS:C	1:C:541:VAL:N	2.79	0.40
2:D:4:SER:O	2:D:5:LYS:HG3	2.21	0.40
2:D:142:ALA:O	2:D:145:VAL:HB	2.21	0.40
1:E:10:LEU:O	1:E:13:THR:HB	2.21	0.40
1:E:35:ARG:C	1:E:37:SER:N	2.78	0.40
1:E:200:GLU:O	1:E:203:GLU:HG2	2.22	0.40
1:E:330:THR:O	1:E:331:SER:C	2.65	0.40
1:E:333:LEU:O	1:E:335:THR:N	2.54	0.40
1:E:353:CYS:O	1:E:355:LYS:N	2.54	0.40
1:E:457:GLN:O	1:E:460:TYR:N	2.55	0.40
2:F:75:ASN:C	2:F:77:ALA:N	2.79	0.40
2:F:92:VAL:O	2:F:95:CYS:N	2.53	0.40
2:F:142:ALA:O	2:F:145:VAL:HB	2.21	0.40
2:F:144:CYS:C	2:F:148:LEU:CD1	2.94	0.40
2:F:292:LEU:O	2:F:294:ALA:N	2.54	0.40
2:F:491:LEU:CD1	2:F:499:THR:HG22	2.49	0.40
2:F:492:PHE:CD1	2:F:499:THR:OG1	2.72	0.40
1:G:47:CYS:O	1:G:48:ARG:C	2.64	0.40
1:G:116:GLN:O	1:G:119:GLN:HB2	2.21	0.40
1:G:267:MET:O	1:G:271:LEU:HD23	2.21	0.40
1:G:353:CYS:O	1:G:354:LEU:C	2.63	0.40
1:G:455:THR:C	1:G:457:GLN:N	2.75	0.40
1:G:539:CYS:C	1:G:541:VAL:N	2.79	0.40
2:H:51:PHE:HB3	2:H:52:PRO:CD	2.46	0.40
2:H:358:LEU:HD12	2:H:377:ILE:HG12	2.03	0.40
2:H:371:ARG:C	2:H:373:ALA:N	2.78	0.40
2:H:525:ILE:HG22	2:H:526:TYR:N	2.35	0.40
2:H:532:THR:HG22	2:H:533:ASP:N	2.36	0.40
1:I:59:LEU:HD12	1:I:59:LEU:HA	1.86	0.40
1:I:478:TRP:O	1:I:481:GLY:N	2.54	0.40
2:J:262:VAL:O	2:J:265:LYS:N	2.54	0.40
2:J:333:TYR:CE2	3:R:48:PRO:HG3	2.56	0.40
2:J:365:VAL:CG2	3:R:394:TYR:HA	2.51	0.40
2:J:451:ILE:HG22	2:J:452:VAL:N	2.33	0.40
2:J:462:ALA:O	2:J:466:LEU:HD13	2.20	0.40
1:K:35:ARG:HB2	1:K:65:PHE:CE2	2.56	0.40
1:K:89:ALA:O	1:K:91:LEU:N	2.54	0.40
1:K:183:LEU:HD12	1:K:215:LEU:HB3	2.02	0.40
1:K:200:GLU:O	1:K:203:GLU:HG2	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:333:LEU:C	1:K:335:THR:N	2.79	0.40
1:K:416:ARG:CD	1:K:454:TYR:CE1	2.96	0.40
1:K:539:CYS:C	1:K:541:VAL:N	2.79	0.40
2:L:56:ASN:C	2:L:58:MET:H	2.25	0.40
2:L:106:ALA:O	2:L:110:MET:CG	2.67	0.40
2:L:333:TYR:CE2	3:V:48:PRO:HG3	2.56	0.40
2:L:358:LEU:HD12	2:L:377:ILE:HG12	2.03	0.40
2:L:495:LYS:O	2:L:496:PRO:O	2.38	0.40
3:M:17:ILE:C	3:M:17:ILE:CD1	2.92	0.40
3:M:52:HIS:ND1	3:M:52:HIS:C	2.79	0.40
3:N:132:GLN:HA	3:N:135:ILE:CG1	2.52	0.40
3:N:342:VAL:O	3:N:342:VAL:HG12	2.20	0.40
3:P:104:ARG:O	3:P:107:PHE:HE1	2.04	0.40
3:P:108:VAL:O	3:P:111:TYR:HB2	2.21	0.40
3:P:308:ASN:O	3:P:309:ASN:C	2.63	0.40
4:Q:89:GLU:HG2	4:Q:128:LYS:HE2	2.03	0.40
3:R:277:ILE:HD12	3:R:380:PHE:HD2	1.86	0.40
3:R:307:ALA:CB	3:R:382:ILE:HG12	2.52	0.40
3:V:25:VAL:O	3:V:27:MET:N	2.53	0.40
3:V:67:LEU:C	3:V:68:VAL:HG23	2.46	0.40
3:V:104:ARG:C	3:V:107:PHE:CE1	2.99	0.40
3:V:283:ILE:C	3:V:284:GLU:HG3	2.46	0.40
1:A:116:GLN:O	1:A:119:GLN:HB2	2.21	0.40
1:A:168:VAL:HG12	1:A:171:LEU:HG	2.03	0.40
1:A:232:SER:HA	1:A:233:PRO:HD3	1.71	0.40
1:A:249:ILE:HG22	1:A:250:LEU:N	2.36	0.40
1:A:292:THR:O	1:A:296:ILE:HG13	2.20	0.40
1:A:529:ALA:O	1:A:532:LYS:HG3	2.21	0.40
2:B:48:SER:OG	2:B:49:ALA:N	2.55	0.40
2:B:142:ALA:O	2:B:145:VAL:HB	2.21	0.40
2:B:446:ALA:O	2:B:449:ILE:N	2.55	0.40
2:B:564:ILE:HG13	2:B:564:ILE:H	1.69	0.40
1:C:197:LEU:CD1	1:C:201:MET:HG3	2.52	0.40
1:C:200:GLU:O	1:C:203:GLU:HG2	2.22	0.40
1:C:215:LEU:H	1:C:215:LEU:HG	1.53	0.40
1:C:344:GLN:C	1:C:346:HIS:N	2.74	0.40
1:C:508:ILE:O	1:C:512:VAL:HG23	2.21	0.40
1:C:529:ALA:O	1:C:532:LYS:HG3	2.21	0.40
2:D:35:LYS:O	2:D:36:LYS:C	2.65	0.40
2:D:72:TYR:CZ	2:D:76:TYR:HE2	2.40	0.40
2:D:142:ALA:O	2:D:143:VAL:C	2.63	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:446:ALA:O	2:D:449:ILE:N	2.55	0.40
1:E:289:LEU:HD12	1:E:289:LEU:H	1.86	0.40
1:E:306:ARG:HD3	1:E:339:ASP:CG	2.47	0.40
1:E:540:THR:O	1:E:540:THR:HG22	2.20	0.40
2:F:35:LYS:CE	3:O:137:GLN:HE21	2.31	0.40
2:F:124:GLU:H	2:F:124:GLU:HG2	1.71	0.40
2:F:351:ILE:HD11	2:F:384:VAL:HG21	2.03	0.40
2:F:478:THR:CA	2:F:481:GLN:HE21	2.18	0.40
1:G:38:PHE:N	1:G:38:PHE:CD2	2.86	0.40
1:G:83:ARG:NE	4:Q:112:PHE:CE2	2.90	0.40
1:G:154:ARG:HH21	1:G:182:LEU:HD23	1.86	0.40
1:G:197:LEU:CD1	1:G:201:MET:HG3	2.52	0.40
1:G:365:ALA:O	1:G:366:MET:C	2.64	0.40
1:G:483:TYR:O	1:G:484:GLY:C	2.64	0.40
1:G:529:ALA:O	1:G:532:LYS:HG3	2.21	0.40
2:H:72:TYR:CZ	2:H:76:TYR:HE2	2.40	0.40
2:H:503:VAL:O	2:H:504:GLN:C	2.63	0.40
2:H:527:TRP:HA	2:H:527:TRP:CE3	2.56	0.40
1:I:75:ALA:O	1:I:76:SER:C	2.63	0.40
1:I:306:ARG:HD3	1:I:339:ASP:CG	2.47	0.40
1:I:319:ASN:O	1:I:320:ASN:C	2.65	0.40
1:I:529:ALA:O	1:I:532:LYS:HG3	2.21	0.40
2:J:125:PRO:O	2:J:128:LYS:HB2	2.21	0.40
2:J:253:SER:O	2:J:255:VAL:N	2.55	0.40
2:J:361:TYR:O	2:J:362:ALA:C	2.62	0.40
2:J:560:LEU:O	2:J:564:ILE:HG13	2.21	0.40
1:K:5:ILE:H	1:K:5:ILE:HG13	1.77	0.40
1:K:10:LEU:O	1:K:13:THR:HB	2.21	0.40
1:K:47:CYS:O	1:K:48:ARG:C	2.64	0.40
1:K:117:PHE:CD1	1:K:117:PHE:N	2.88	0.40
1:K:118:VAL:C	1:K:120:GLY:N	2.77	0.40
1:K:457:GLN:O	1:K:458:ARG:C	2.64	0.40
1:K:483:TYR:O	1:K:484:GLY:C	2.64	0.40
2:L:336:LEU:O	2:L:337:GLU:C	2.62	0.40
2:L:351:ILE:HD11	2:L:384:VAL:HG21	2.03	0.40
2:L:389:GLU:O	2:L:392:VAL:N	2.54	0.40
2:L:446:ALA:O	2:L:449:ILE:N	2.55	0.40
3:M:106:ASN:O	3:M:109:ILE:HG13	2.21	0.40
3:M:256:ILE:HA	3:M:257:PRO:HD3	1.62	0.40
3:M:264:LEU:O	3:M:265:MET:HB2	2.21	0.40
3:M:307:ALA:CB	3:M:382:ILE:HG12	2.51	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:104:ARG:C	3:N:107:PHE:CE1	2.99	0.40
3:N:106:ASN:O	3:N:109:ILE:HG13	2.21	0.40
3:N:124:GLN:O	3:N:125:THR:O	2.39	0.40
3:O:52:HIS:ND1	3:O:52:HIS:C	2.79	0.40
3:O:283:ILE:C	3:O:284:GLU:HG3	2.46	0.40
3:O:315:PRO:HG2	3:O:374:PRO:O	2.22	0.40
3:P:132:GLN:HA	3:P:135:ILE:CG1	2.52	0.40
4:Q:123:VAL:HG12	4:Q:125:ASP:O	2.22	0.40
3:R:342:VAL:O	3:R:342:VAL:HG12	2.20	0.40
4:T:29:LYS:O	4:T:30:LYS:C	2.63	0.40
4:T:31:MET:CE	4:T:53:ARG:NH1	2.84	0.40
3:V:212:LEU:HD12	3:V:212:LEU:C	2.47	0.40
4:W:35:LEU:HD11	4:W:52:TRP:CE3	2.56	0.40
4:W:126:THR:O	4:W:127:SER:C	2.65	0.40
4:X:60:LYS:HB3	4:X:62:TYR:HE1	1.87	0.40
4:X:107:PHE:O	4:X:110:ALA:N	2.55	0.40
1:A:71:LEU:C	1:A:73:LEU:N	2.78	0.40
1:A:197:LEU:CD1	1:A:201:MET:HG3	2.52	0.40
1:A:319:ASN:O	1:A:320:ASN:C	2.65	0.40
1:A:328:ALA:O	1:A:332:LEU:HB2	2.22	0.40
1:A:449:VAL:O	1:A:452:HIS:CD2	2.74	0.40
1:A:470:GLN:CB	1:A:471:PRO:CD	2.97	0.40
2:B:144:CYS:C	2:B:148:LEU:CD1	2.94	0.40
2:B:355:LEU:N	2:B:355:LEU:HD23	2.36	0.40
2:B:389:GLU:O	2:B:392:VAL:N	2.54	0.40
1:C:79:PHE:HB3	4:T:145:ASP:OD2	2.21	0.40
1:C:116:GLN:CG	1:C:117:PHE:N	2.85	0.40
1:C:513:LEU:H	1:C:513:LEU:CD1	2.34	0.40
2:D:39:ALA:O	2:D:40:SER:C	2.64	0.40
2:D:303:LEU:O	2:D:306:ILE:HB	2.20	0.40
2:D:304:ARG:NE	2:D:573:VAL:O	2.42	0.40
2:D:347:SER:OG	2:D:348:GLN:N	2.52	0.40
2:D:460:ASP:C	2:D:462:ALA:N	2.78	0.40
2:D:474:HIS:O	2:D:474:HIS:ND1	2.55	0.40
2:D:573:VAL:CG1	2:D:574:TYR:N	2.83	0.40
1:E:116:GLN:CG	1:E:117:PHE:N	2.85	0.40
1:E:430:GLY:HA2	1:E:433:VAL:CG2	2.51	0.40
1:E:478:TRP:O	1:E:481:GLY:N	2.54	0.40
1:E:493:GLU:HG2	1:E:494:GLU:H	1.86	0.40
1:E:513:LEU:H	1:E:513:LEU:CD1	2.34	0.40
2:F:39:ALA:O	2:F:40:SER:C	2.64	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:125:PRO:O	2:F:128:LYS:HB2	2.22	0.40
2:F:173:ASN:O	2:F:174:PRO:C	2.59	0.40
2:F:216:GLU:O	2:F:220:ILE:HD13	2.21	0.40
2:F:358:LEU:HD12	2:F:377:ILE:HG12	2.03	0.40
2:F:365:VAL:CG2	3:O:394:TYR:HA	2.51	0.40
2:F:399:ILE:H	2:F:399:ILE:HG13	1.67	0.40
2:F:474:HIS:ND1	2:F:474:HIS:O	2.55	0.40
2:F:490:LYS:NZ	2:F:545:LYS:HZ2	2.19	0.40
1:G:44:THR:C	1:G:46:ARG:H	2.30	0.40
1:G:52:LYS:O	1:G:53:LEU:C	2.65	0.40
1:G:79:PHE:HB3	4:Q:145:ASP:OD2	2.21	0.40
1:G:168:VAL:HG12	1:G:171:LEU:HG	2.03	0.40
1:G:187:ASN:HD21	1:G:189:GLY:H	1.69	0.40
1:G:333:LEU:C	1:G:335:THR:N	2.79	0.40
1:G:460:TYR:CE2	1:G:464:LEU:HD21	2.56	0.40
2:H:58:MET:O	2:H:60:THR:N	2.42	0.40
2:H:97:ASP:OD1	2:H:98:PRO:CD	2.69	0.40
2:H:125:PRO:O	2:H:128:LYS:HB2	2.21	0.40
2:H:161:PHE:N	2:H:161:PHE:HD1	2.20	0.40
2:H:347:SER:OG	2:H:348:GLN:N	2.52	0.40
2:H:348:GLN:C	2:H:350:ASN:N	2.77	0.40
2:H:420:LYS:O	2:H:422:PRO:HD3	2.22	0.40
1:I:116:GLN:CG	1:I:117:PHE:N	2.85	0.40
1:I:215:LEU:H	1:I:215:LEU:HG	1.53	0.40
1:I:270:ILE:CG2	1:I:271:LEU:N	2.84	0.40
1:I:328:ALA:O	1:I:332:LEU:HB2	2.22	0.40
1:I:566:TYR:O	1:I:569:LEU:HB2	2.21	0.40
2:J:292:LEU:O	2:J:294:ALA:N	2.54	0.40
2:J:355:LEU:O	2:J:358:LEU:N	2.54	0.40
2:J:496:PRO:O	2:J:499:THR:OG1	2.40	0.40
1:K:140:GLY:C	1:K:142:VAL:N	2.79	0.40
1:K:227:ILE:HG22	1:K:228:MET:N	2.37	0.40
2:L:161:PHE:N	2:L:161:PHE:HD1	2.20	0.40
2:L:262:VAL:CG2	2:L:263:LEU:N	2.83	0.40
2:L:334:VAL:HG12	2:L:338:LYS:HE3	2.03	0.40
3:M:132:GLN:HA	3:M:135:ILE:CG1	2.52	0.40
3:N:106:ASN:O	3:N:109:ILE:HG12	2.22	0.40
3:N:283:ILE:C	3:N:284:GLU:HG3	2.46	0.40
3:N:312:ILE:CA	3:N:378:VAL:HG12	2.34	0.40
3:O:67:LEU:HD12	3:O:67:LEU:HA	1.73	0.40
3:O:106:ASN:O	3:O:109:ILE:HG13	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:O:310:VAL:CG2	3:O:311:GLU:N	2.85	0.40
3:P:50:LEU:HD11	3:P:59:TRP:NE1	2.35	0.40
3:P:106:ASN:O	3:P:109:ILE:HG12	2.22	0.40
4:Q:10:ARG:HD2	4:Q:10:ARG:HA	1.94	0.40
4:Q:96:GLY:C	4:Q:97:SER:OG	2.64	0.40
4:U:89:GLU:HG2	4:U:128:LYS:HE2	2.03	0.40
3:V:327:THR:HG22	3:V:328:THR:N	2.37	0.40
4:X:89:GLU:O	4:X:90:LEU:C	2.65	0.40

All (22) symmetry-related close contacts are listed below. The label for Atom-2 includes the symmetry operator and encoded unit-cell translations to be applied.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:265:GLU:OE2	1:K:221:ARG:NH1[1_545]	1.07	1.13
1:E:265:GLU:OE1	1:K:221:ARG:CZ[1_545]	1.30	0.90
1:E:265:GLU:CD	1:K:221:ARG:NH2[1_545]	1.42	0.78
1:E:265:GLU:OE1	1:K:221:ARG:NH2[1_545]	1.44	0.76
1:I:345:ARG:NE	2:L:457:GLU:OE2[5_445]	1.44	0.76
1:E:265:GLU:CD	1:K:221:ARG:CZ[1_545]	1.49	0.71
1:E:265:GLU:OE1	1:K:221:ARG:NE[1_545]	1.53	0.67
1:E:265:GLU:OE2	1:K:221:ARG:CZ[1_545]	1.54	0.66
1:C:345:ARG:NE	2:F:457:GLU:OE2[4_565]	1.62	0.58
1:C:493:GLU:OE2	1:E:542:ASN:OD1[4_565]	1.68	0.52
1:C:493:GLU:OE2	1:E:542:ASN:CG[4_565]	1.89	0.31
1:E:265:GLU:OE2	1:K:221:ARG:NH2[1_545]	1.94	0.26
1:C:493:GLU:OE2	1:E:542:ASN:CB[4_565]	1.97	0.23
1:I:345:ARG:CD	2:L:457:GLU:OE2[5_445]	1.98	0.22
1:E:265:GLU:CD	1:K:221:ARG:NH1[1_545]	1.99	0.21
1:C:345:ARG:CD	2:F:457:GLU:OE2[4_565]	2.04	0.16
1:I:493:GLU:OE2	1:K:542:ASN:OD1[5_445]	2.04	0.16
1:I:345:ARG:NH2	2:L:458:ARG:CA[5_445]	2.06	0.14
1:I:493:GLU:OE2	1:K:542:ASN:CB[5_445]	2.07	0.13
1:I:375:GLY:O	2:L:544:GLU:OE2[5_445]	2.13	0.07
1:C:375:GLY:O	2:F:544:GLU:OE2[4_565]	2.15	0.05
1:I:493:GLU:OE2	1:K:542:ASN:CG[5_445]	2.17	0.03

5.3 Torsion angles (i)

5.3.1 Protein backbone (i)

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	588/618 (95%)	254 (43%)	210 (36%)	124 (21%)	0	1
1	C	588/618 (95%)	254 (43%)	210 (36%)	124 (21%)	0	1
1	E	588/618 (95%)	253 (43%)	211 (36%)	124 (21%)	0	1
1	G	588/618 (95%)	255 (43%)	209 (36%)	124 (21%)	0	1
1	I	588/618 (95%)	255 (43%)	209 (36%)	124 (21%)	0	1
1	K	588/618 (95%)	255 (43%)	209 (36%)	124 (21%)	0	1
2	B	572/584 (98%)	239 (42%)	192 (34%)	141 (25%)	0	1
2	D	572/584 (98%)	239 (42%)	191 (33%)	142 (25%)	0	1
2	F	572/584 (98%)	240 (42%)	190 (33%)	142 (25%)	0	1
2	H	572/584 (98%)	238 (42%)	193 (34%)	141 (25%)	0	1
2	J	572/584 (98%)	239 (42%)	191 (33%)	142 (25%)	0	1
2	L	572/584 (98%)	239 (42%)	192 (34%)	141 (25%)	0	1
3	M	380/423 (90%)	257 (68%)	76 (20%)	47 (12%)	0	4
3	N	380/423 (90%)	257 (68%)	76 (20%)	47 (12%)	0	4
3	O	380/423 (90%)	257 (68%)	76 (20%)	47 (12%)	0	4
3	P	380/423 (90%)	257 (68%)	76 (20%)	47 (12%)	0	4
3	R	380/423 (90%)	257 (68%)	76 (20%)	47 (12%)	0	4
3	V	380/423 (90%)	257 (68%)	76 (20%)	47 (12%)	0	4
4	Q	147/158 (93%)	81 (55%)	47 (32%)	19 (13%)	0	4
4	S	147/158 (93%)	81 (55%)	47 (32%)	19 (13%)	0	4
4	T	147/158 (93%)	81 (55%)	47 (32%)	19 (13%)	0	4
4	U	147/158 (93%)	81 (55%)	47 (32%)	19 (13%)	0	4
4	W	147/158 (93%)	81 (55%)	47 (32%)	19 (13%)	0	4
4	X	147/158 (93%)	81 (55%)	47 (32%)	19 (13%)	0	4
All	All	10122/10698 (95%)	4988 (49%)	3145 (31%)	1989 (20%)	0	1

All (1989) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	7	LEU
1	A	58	MET
1	A	76	SER
1	A	132	SER
1	A	162	VAL
1	A	179	THR
1	A	182	LEU
1	A	214	LYS
1	A	258	ARG
1	A	281	SER
1	A	283	ASN
1	A	284	VAL
1	A	322	LYS
1	A	324	ILE
1	A	345	ARG
1	A	378	ILE
1	A	430	GLY
1	A	454	TYR
1	A	457	GLN
1	A	469	GLN
1	A	489	SER
1	A	574	ASP
1	A	575	HIS
1	A	582	GLU
2	B	14	GLU
2	B	15	ILE
2	B	24	SER
2	B	31	LYS
2	B	49	ALA
2	B	50	LEU
2	B	56	ASN
2	B	64	GLU
2	B	77	ALA
2	B	86	MET
2	B	88	VAL
2	B	102	ILE
2	B	132	ASP
2	B	145	VAL
2	B	169	ILE
2	B	171	ASP
2	B	174	PRO
2	B	175	MET

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Mol	Chain	Res	Type
2	B	181	VAL
2	B	189	GLU
2	B	191	HIS
2	B	230	MET
2	B	250	HIS
2	B	253	SER
2	B	296	PRO
2	B	299	GLN
2	B	300	TYR
2	B	364	GLU
2	B	367	VAL
2	B	404	ASN
2	B	407	VAL
2	B	427	SER
2	B	434	GLU
2	B	438	SER
2	B	442	PRO
2	B	446	ALA
2	B	462	ALA
2	B	463	ASP
2	B	495	LYS
2	B	500	GLN
2	B	506	VAL
2	B	546	PRO
2	B	554	LEU
2	B	555	ILE
2	B	582	VAL
2	B	583	GLU
1	C	7	LEU
1	C	58	MET
1	C	76	SER
1	C	132	SER
1	C	162	VAL
1	C	179	THR
1	C	182	LEU
1	C	214	LYS
1	C	258	ARG
1	C	281	SER
1	C	283	ASN
1	C	284	VAL
1	C	322	LYS
1	C	324	ILE

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Mol	Chain	Res	Type
1	C	345	ARG
1	C	378	ILE
1	C	430	GLY
1	C	454	TYR
1	C	457	GLN
1	C	469	GLN
1	C	489	SER
1	C	574	ASP
1	C	575	HIS
1	C	582	GLU
2	D	14	GLU
2	D	15	ILE
2	D	24	SER
2	D	31	LYS
2	D	49	ALA
2	D	50	LEU
2	D	56	ASN
2	D	64	GLU
2	D	77	ALA
2	D	86	MET
2	D	88	VAL
2	D	102	ILE
2	D	132	ASP
2	D	145	VAL
2	D	169	ILE
2	D	171	ASP
2	D	174	PRO
2	D	175	MET
2	D	181	VAL
2	D	189	GLU
2	D	191	HIS
2	D	230	MET
2	D	250	HIS
2	D	253	SER
2	D	296	PRO
2	D	299	GLN
2	D	300	TYR
2	D	364	GLU
2	D	367	VAL
2	D	404	ASN
2	D	407	VAL
2	D	427	SER

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Mol	Chain	Res	Type
2	D	434	GLU
2	D	438	SER
2	D	442	PRO
2	D	446	ALA
2	D	462	ALA
2	D	463	ASP
2	D	495	LYS
2	D	500	GLN
2	D	506	VAL
2	D	546	PRO
2	D	554	LEU
2	D	555	ILE
2	D	582	VAL
2	D	583	GLU
1	E	7	LEU
1	E	58	MET
1	E	76	SER
1	E	132	SER
1	E	162	VAL
1	E	179	THR
1	E	182	LEU
1	E	214	LYS
1	E	258	ARG
1	E	281	SER
1	E	283	ASN
1	E	284	VAL
1	E	322	LYS
1	E	324	ILE
1	E	345	ARG
1	E	378	ILE
1	E	430	GLY
1	E	454	TYR
1	E	457	GLN
1	E	469	GLN
1	E	489	SER
1	E	574	ASP
1	E	575	HIS
1	E	582	GLU
2	F	14	GLU
2	F	15	ILE
2	F	24	SER
2	F	31	LYS

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Mol	Chain	Res	Type
2	F	49	ALA
2	F	50	LEU
2	F	56	ASN
2	F	64	GLU
2	F	77	ALA
2	F	86	MET
2	F	88	VAL
2	F	102	ILE
2	F	132	ASP
2	F	145	VAL
2	F	169	ILE
2	F	171	ASP
2	F	174	PRO
2	F	175	MET
2	F	181	VAL
2	F	189	GLU
2	F	191	HIS
2	F	230	MET
2	F	250	HIS
2	F	253	SER
2	F	296	PRO
2	F	299	GLN
2	F	300	TYR
2	F	364	GLU
2	F	367	VAL
2	F	404	ASN
2	F	407	VAL
2	F	427	SER
2	F	434	GLU
2	F	438	SER
2	F	442	PRO
2	F	446	ALA
2	F	462	ALA
2	F	463	ASP
2	F	495	LYS
2	F	500	GLN
2	F	506	VAL
2	F	546	PRO
2	F	554	LEU
2	F	555	ILE
2	F	582	VAL
2	F	583	GLU

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Mol	Chain	Res	Type
1	G	7	LEU
1	G	58	MET
1	G	76	SER
1	G	132	SER
1	G	162	VAL
1	G	179	THR
1	G	182	LEU
1	G	214	LYS
1	G	258	ARG
1	G	281	SER
1	G	283	ASN
1	G	284	VAL
1	G	322	LYS
1	G	324	ILE
1	G	345	ARG
1	G	378	ILE
1	G	430	GLY
1	G	454	TYR
1	G	457	GLN
1	G	469	GLN
1	G	489	SER
1	G	574	ASP
1	G	575	HIS
1	G	582	GLU
2	H	14	GLU
2	H	15	ILE
2	H	24	SER
2	H	31	LYS
2	H	49	ALA
2	H	50	LEU
2	H	56	ASN
2	H	64	GLU
2	H	77	ALA
2	H	86	MET
2	H	88	VAL
2	H	102	ILE
2	H	132	ASP
2	H	145	VAL
2	H	169	ILE
2	H	171	ASP
2	H	174	PRO
2	H	175	MET

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Mol	Chain	Res	Type
2	H	181	VAL
2	H	189	GLU
2	H	191	HIS
2	H	230	MET
2	H	250	HIS
2	H	253	SER
2	H	296	PRO
2	H	299	GLN
2	H	300	TYR
2	H	364	GLU
2	H	367	VAL
2	H	404	ASN
2	H	407	VAL
2	H	427	SER
2	H	434	GLU
2	H	438	SER
2	H	442	PRO
2	H	446	ALA
2	H	462	ALA
2	H	463	ASP
2	H	495	LYS
2	H	500	GLN
2	H	506	VAL
2	H	546	PRO
2	H	554	LEU
2	H	555	ILE
2	H	582	VAL
2	H	583	GLU
1	I	7	LEU
1	I	58	MET
1	I	76	SER
1	I	132	SER
1	I	162	VAL
1	I	179	THR
1	I	182	LEU
1	I	214	LYS
1	I	258	ARG
1	I	281	SER
1	I	283	ASN
1	I	284	VAL
1	I	322	LYS
1	I	324	ILE

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Mol	Chain	Res	Type
1	I	345	ARG
1	I	378	ILE
1	I	430	GLY
1	I	454	TYR
1	I	457	GLN
1	I	469	GLN
1	I	489	SER
1	I	574	ASP
1	I	575	HIS
1	I	582	GLU
2	J	14	GLU
2	J	15	ILE
2	J	24	SER
2	J	31	LYS
2	J	49	ALA
2	J	50	LEU
2	J	56	ASN
2	J	64	GLU
2	J	77	ALA
2	J	86	MET
2	J	88	VAL
2	J	102	ILE
2	J	132	ASP
2	J	145	VAL
2	J	169	ILE
2	J	171	ASP
2	J	174	PRO
2	J	175	MET
2	J	181	VAL
2	J	189	GLU
2	J	191	HIS
2	J	230	MET
2	J	250	HIS
2	J	253	SER
2	J	296	PRO
2	J	299	GLN
2	J	300	TYR
2	J	364	GLU
2	J	367	VAL
2	J	404	ASN
2	J	407	VAL
2	J	427	SER

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Mol	Chain	Res	Type
2	J	434	GLU
2	J	438	SER
2	J	442	PRO
2	J	446	ALA
2	J	462	ALA
2	J	463	ASP
2	J	495	LYS
2	J	500	GLN
2	J	506	VAL
2	J	546	PRO
2	J	554	LEU
2	J	555	ILE
2	J	582	VAL
2	J	583	GLU
1	K	7	LEU
1	K	58	MET
1	K	76	SER
1	K	132	SER
1	K	162	VAL
1	K	179	THR
1	K	182	LEU
1	K	214	LYS
1	K	258	ARG
1	K	281	SER
1	K	283	ASN
1	K	284	VAL
1	K	322	LYS
1	K	324	ILE
1	K	345	ARG
1	K	378	ILE
1	K	430	GLY
1	K	454	TYR
1	K	457	GLN
1	K	469	GLN
1	K	489	SER
1	K	574	ASP
1	K	575	HIS
1	K	582	GLU
2	L	14	GLU
2	L	15	ILE
2	L	24	SER
2	L	31	LYS

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Mol	Chain	Res	Type
2	L	49	ALA
2	L	50	LEU
2	L	56	ASN
2	L	64	GLU
2	L	77	ALA
2	L	86	MET
2	L	88	VAL
2	L	102	ILE
2	L	132	ASP
2	L	145	VAL
2	L	169	ILE
2	L	171	ASP
2	L	174	PRO
2	L	175	MET
2	L	181	VAL
2	L	189	GLU
2	L	191	HIS
2	L	230	MET
2	L	250	HIS
2	L	253	SER
2	L	296	PRO
2	L	299	GLN
2	L	300	TYR
2	L	364	GLU
2	L	367	VAL
2	L	404	ASN
2	L	407	VAL
2	L	427	SER
2	L	434	GLU
2	L	438	SER
2	L	442	PRO
2	L	446	ALA
2	L	462	ALA
2	L	463	ASP
2	L	495	LYS
2	L	500	GLN
2	L	506	VAL
2	L	546	PRO
2	L	554	LEU
2	L	555	ILE
2	L	582	VAL
2	L	583	GLU

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Mol	Chain	Res	Type
3	M	11	LEU
3	M	25	VAL
3	M	26	ASP
3	M	29	GLU
3	M	33	PHE
3	M	77	VAL
3	M	79	LEU
3	M	108	VAL
3	M	125	THR
3	M	132	GLN
3	M	167	ARG
3	M	186	ASN
3	M	217	LYS
3	M	241	CYS
3	M	249	ASN
3	M	286	HIS
3	M	289	SER
3	M	415	ASN
3	N	11	LEU
3	N	25	VAL
3	N	26	ASP
3	N	29	GLU
3	N	33	PHE
3	N	77	VAL
3	N	79	LEU
3	N	108	VAL
3	N	125	THR
3	N	132	GLN
3	N	167	ARG
3	N	186	ASN
3	N	217	LYS
3	N	241	CYS
3	N	249	ASN
3	N	286	HIS
3	N	289	SER
3	N	415	ASN
3	O	11	LEU
3	O	25	VAL
3	O	26	ASP
3	O	29	GLU
3	O	33	PHE
3	O	77	VAL

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Mol	Chain	Res	Type
3	O	79	LEU
3	O	108	VAL
3	O	125	THR
3	O	132	GLN
3	O	167	ARG
3	O	186	ASN
3	O	217	LYS
3	O	241	CYS
3	O	249	ASN
3	O	286	HIS
3	O	289	SER
3	O	415	ASN
3	P	11	LEU
3	P	25	VAL
3	P	26	ASP
3	P	29	GLU
3	P	33	PHE
3	P	77	VAL
3	P	79	LEU
3	P	108	VAL
3	P	125	THR
3	P	132	GLN
3	P	167	ARG
3	P	186	ASN
3	P	217	LYS
3	P	241	CYS
3	P	249	ASN
3	P	286	HIS
3	P	289	SER
3	P	415	ASN
4	Q	32	VAL
4	Q	41	ALA
4	Q	46	MET
3	R	11	LEU
3	R	25	VAL
3	R	26	ASP
3	R	29	GLU
3	R	33	PHE
3	R	77	VAL
3	R	79	LEU
3	R	108	VAL
3	R	125	THR

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Mol	Chain	Res	Type
3	R	132	GLN
3	R	167	ARG
3	R	186	ASN
3	R	217	LYS
3	R	241	CYS
3	R	249	ASN
3	R	286	HIS
3	R	289	SER
3	R	415	ASN
4	S	32	VAL
4	S	41	ALA
4	S	46	MET
4	T	32	VAL
4	T	41	ALA
4	T	46	MET
4	U	32	VAL
4	U	41	ALA
4	U	46	MET
3	V	11	LEU
3	V	25	VAL
3	V	26	ASP
3	V	29	GLU
3	V	33	PHE
3	V	77	VAL
3	V	79	LEU
3	V	108	VAL
3	V	125	THR
3	V	132	GLN
3	V	167	ARG
3	V	186	ASN
3	V	217	LYS
3	V	241	CYS
3	V	249	ASN
3	V	286	HIS
3	V	289	SER
3	V	415	ASN
4	W	32	VAL
4	W	41	ALA
4	W	46	MET
4	X	32	VAL
4	X	41	ALA
4	X	46	MET

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Mol	Chain	Res	Type
1	A	25	GLU
1	A	65	PHE
1	A	68	LEU
1	A	85	GLY
1	A	122	ALA
1	A	130	GLY
1	A	151	SER
1	A	174	MET
1	A	189	GLY
1	A	202	CYS
1	A	212	PHE
1	A	215	LEU
1	A	226	LEU
1	A	227	ILE
1	A	230	GLY
1	A	247	VAL
1	A	268	ASN
1	A	323	ASN
1	A	326	TYR
1	A	330	THR
1	A	362	LYS
1	A	363	ARG
1	A	368	LEU
1	A	392	CYS
1	A	413	PRO
1	A	431	SER
1	A	434	ARG
1	A	440	ASN
1	A	470	GLN
1	A	478	TRP
1	A	525	TYR
1	A	526	ALA
1	A	541	VAL
1	A	556	ASP
2	B	21	GLU
2	B	37	VAL
2	B	40	SER
2	B	128	LYS
2	B	129	CYS
2	B	152	ASN
2	B	165	LEU
2	B	188	ALA

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Mol	Chain	Res	Type
2	B	194	SER
2	B	220	ILE
2	B	251	ALA
2	B	255	VAL
2	B	257	LEU
2	B	318	LYS
2	B	340	ASP
2	B	344	ARG
2	B	351	ILE
2	B	371	ARG
2	B	386	GLN
2	B	388	ALA
2	B	392	VAL
2	B	412	VAL
2	B	461	ASN
2	B	470	LEU
2	B	471	ASP
2	B	474	HIS
2	B	482	LEU
2	B	502	LEU
2	B	517	PRO
2	B	540	VAL
2	B	557	PRO
2	B	564	ILE
1	C	25	GLU
1	C	65	PHE
1	C	68	LEU
1	C	85	GLY
1	C	122	ALA
1	C	130	GLY
1	C	151	SER
1	C	174	MET
1	C	189	GLY
1	C	202	CYS
1	C	212	PHE
1	C	215	LEU
1	C	226	LEU
1	C	227	ILE
1	C	230	GLY
1	C	247	VAL
1	C	268	ASN
1	C	323	ASN

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Mol	Chain	Res	Type
1	C	326	TYR
1	C	330	THR
1	C	362	LYS
1	C	363	ARG
1	C	368	LEU
1	C	392	CYS
1	C	413	PRO
1	C	431	SER
1	C	434	ARG
1	C	440	ASN
1	C	470	GLN
1	C	478	TRP
1	C	525	TYR
1	C	526	ALA
1	C	541	VAL
1	C	556	ASP
2	D	21	GLU
2	D	37	VAL
2	D	40	SER
2	D	128	LYS
2	D	129	CYS
2	D	152	ASN
2	D	165	LEU
2	D	188	ALA
2	D	194	SER
2	D	220	ILE
2	D	251	ALA
2	D	255	VAL
2	D	257	LEU
2	D	318	LYS
2	D	340	ASP
2	D	344	ARG
2	D	351	ILE
2	D	371	ARG
2	D	386	GLN
2	D	388	ALA
2	D	392	VAL
2	D	412	VAL
2	D	461	ASN
2	D	470	LEU
2	D	471	ASP
2	D	474	HIS

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Mol	Chain	Res	Type
2	D	482	LEU
2	D	502	LEU
2	D	517	PRO
2	D	540	VAL
2	D	557	PRO
2	D	564	ILE
1	E	25	GLU
1	E	65	PHE
1	E	68	LEU
1	E	85	GLY
1	E	122	ALA
1	E	130	GLY
1	E	151	SER
1	E	174	MET
1	E	189	GLY
1	E	202	CYS
1	E	212	PHE
1	E	215	LEU
1	E	226	LEU
1	E	227	ILE
1	E	230	GLY
1	E	247	VAL
1	E	268	ASN
1	E	323	ASN
1	E	326	TYR
1	E	330	THR
1	E	362	LYS
1	E	363	ARG
1	E	368	LEU
1	E	392	CYS
1	E	413	PRO
1	E	431	SER
1	E	434	ARG
1	E	440	ASN
1	E	470	GLN
1	E	478	TRP
1	E	525	TYR
1	E	526	ALA
1	E	541	VAL
1	E	556	ASP
2	F	21	GLU
2	F	37	VAL

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Mol	Chain	Res	Type
2	F	40	SER
2	F	128	LYS
2	F	129	CYS
2	F	152	ASN
2	F	165	LEU
2	F	188	ALA
2	F	194	SER
2	F	220	ILE
2	F	251	ALA
2	F	255	VAL
2	F	257	LEU
2	F	318	LYS
2	F	340	ASP
2	F	344	ARG
2	F	351	ILE
2	F	371	ARG
2	F	386	GLN
2	F	388	ALA
2	F	392	VAL
2	F	412	VAL
2	F	461	ASN
2	F	470	LEU
2	F	471	ASP
2	F	474	HIS
2	F	482	LEU
2	F	502	LEU
2	F	517	PRO
2	F	540	VAL
2	F	557	PRO
2	F	564	ILE
1	G	25	GLU
1	G	65	PHE
1	G	68	LEU
1	G	122	ALA
1	G	130	GLY
1	G	151	SER
1	G	174	MET
1	G	189	GLY
1	G	202	CYS
1	G	212	PHE
1	G	215	LEU
1	G	226	LEU

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Mol	Chain	Res	Type
1	G	227	ILE
1	G	230	GLY
1	G	247	VAL
1	G	268	ASN
1	G	323	ASN
1	G	326	TYR
1	G	330	THR
1	G	362	LYS
1	G	363	ARG
1	G	368	LEU
1	G	392	CYS
1	G	413	PRO
1	G	431	SER
1	G	434	ARG
1	G	440	ASN
1	G	470	GLN
1	G	478	TRP
1	G	525	TYR
1	G	526	ALA
1	G	541	VAL
1	G	556	ASP
2	H	21	GLU
2	H	37	VAL
2	H	40	SER
2	H	128	LYS
2	H	129	CYS
2	H	152	ASN
2	H	165	LEU
2	H	188	ALA
2	H	194	SER
2	H	220	ILE
2	H	251	ALA
2	H	255	VAL
2	H	257	LEU
2	H	318	LYS
2	H	340	ASP
2	H	344	ARG
2	H	351	ILE
2	H	371	ARG
2	H	386	GLN
2	H	388	ALA
2	H	392	VAL

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Mol	Chain	Res	Type
2	H	412	VAL
2	H	461	ASN
2	H	470	LEU
2	H	471	ASP
2	H	474	HIS
2	H	482	LEU
2	H	502	LEU
2	H	517	PRO
2	H	540	VAL
2	H	557	PRO
2	H	564	ILE
1	I	25	GLU
1	I	65	PHE
1	I	68	LEU
1	I	85	GLY
1	I	122	ALA
1	I	130	GLY
1	I	151	SER
1	I	174	MET
1	I	189	GLY
1	I	202	CYS
1	I	212	PHE
1	I	215	LEU
1	I	226	LEU
1	I	227	ILE
1	I	230	GLY
1	I	247	VAL
1	I	268	ASN
1	I	326	TYR
1	I	330	THR
1	I	362	LYS
1	I	363	ARG
1	I	368	LEU
1	I	392	CYS
1	I	413	PRO
1	I	431	SER
1	I	434	ARG
1	I	440	ASN
1	I	470	GLN
1	I	478	TRP
1	I	525	TYR
1	I	526	ALA

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Mol	Chain	Res	Type
1	I	541	VAL
1	I	556	ASP
2	J	21	GLU
2	J	37	VAL
2	J	40	SER
2	J	128	LYS
2	J	129	CYS
2	J	152	ASN
2	J	165	LEU
2	J	188	ALA
2	J	194	SER
2	J	220	ILE
2	J	251	ALA
2	J	255	VAL
2	J	257	LEU
2	J	318	LYS
2	J	340	ASP
2	J	344	ARG
2	J	351	ILE
2	J	371	ARG
2	J	386	GLN
2	J	388	ALA
2	J	392	VAL
2	J	412	VAL
2	J	461	ASN
2	J	470	LEU
2	J	471	ASP
2	J	474	HIS
2	J	482	LEU
2	J	502	LEU
2	J	517	PRO
2	J	540	VAL
2	J	557	PRO
2	J	564	ILE
1	K	25	GLU
1	K	65	PHE
1	K	68	LEU
1	K	85	GLY
1	K	122	ALA
1	K	130	GLY
1	K	151	SER
1	K	174	MET

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Mol	Chain	Res	Type
1	K	189	GLY
1	K	202	CYS
1	K	212	PHE
1	K	215	LEU
1	K	226	LEU
1	K	227	ILE
1	K	230	GLY
1	K	247	VAL
1	K	268	ASN
1	K	323	ASN
1	K	326	TYR
1	K	330	THR
1	K	362	LYS
1	K	363	ARG
1	K	368	LEU
1	K	392	CYS
1	K	413	PRO
1	K	431	SER
1	K	434	ARG
1	K	440	ASN
1	K	470	GLN
1	K	478	TRP
1	K	525	TYR
1	K	526	ALA
1	K	541	VAL
1	K	556	ASP
2	L	21	GLU
2	L	37	VAL
2	L	40	SER
2	L	128	LYS
2	L	129	CYS
2	L	152	ASN
2	L	165	LEU
2	L	188	ALA
2	L	194	SER
2	L	220	ILE
2	L	251	ALA
2	L	255	VAL
2	L	257	LEU
2	L	318	LYS
2	L	340	ASP
2	L	344	ARG

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Mol	Chain	Res	Type
2	L	351	ILE
2	L	371	ARG
2	L	386	GLN
2	L	388	ALA
2	L	392	VAL
2	L	412	VAL
2	L	461	ASN
2	L	470	LEU
2	L	471	ASP
2	L	474	HIS
2	L	482	LEU
2	L	502	LEU
2	L	517	PRO
2	L	540	VAL
2	L	557	PRO
2	L	564	ILE
3	M	27	MET
3	M	80	VAL
3	M	128	SER
3	M	136	THR
3	M	240	GLN
3	M	246	ARG
3	M	272	HIS
3	M	330	GLY
3	M	402	GLY
3	M	417	ASP
3	N	27	MET
3	N	80	VAL
3	N	128	SER
3	N	136	THR
3	N	240	GLN
3	N	246	ARG
3	N	272	HIS
3	N	330	GLY
3	N	402	GLY
3	N	417	ASP
3	O	27	MET
3	O	80	VAL
3	O	128	SER
3	O	136	THR
3	O	240	GLN
3	O	246	ARG

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Mol	Chain	Res	Type
3	O	272	HIS
3	O	330	GLY
3	O	402	GLY
3	O	417	ASP
3	P	27	MET
3	P	80	VAL
3	P	128	SER
3	P	136	THR
3	P	240	GLN
3	P	246	ARG
3	P	272	HIS
3	P	330	GLY
3	P	402	GLY
3	P	417	ASP
4	Q	12	GLY
4	Q	22	ALA
4	Q	30	LYS
4	Q	39	VAL
4	Q	100	GLU
4	Q	113	ILE
3	R	27	MET
3	R	80	VAL
3	R	128	SER
3	R	136	THR
3	R	240	GLN
3	R	246	ARG
3	R	272	HIS
3	R	330	GLY
3	R	402	GLY
3	R	417	ASP
4	S	12	GLY
4	S	22	ALA
4	S	30	LYS
4	S	39	VAL
4	S	100	GLU
4	S	113	ILE
4	T	12	GLY
4	T	22	ALA
4	T	30	LYS
4	T	39	VAL
4	T	100	GLU
4	T	113	ILE

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Mol	Chain	Res	Type
4	U	12	GLY
4	U	22	ALA
4	U	30	LYS
4	U	39	VAL
4	U	100	GLU
4	U	113	ILE
3	V	27	MET
3	V	80	VAL
3	V	128	SER
3	V	136	THR
3	V	240	GLN
3	V	246	ARG
3	V	272	HIS
3	V	330	GLY
3	V	402	GLY
3	V	417	ASP
4	W	12	GLY
4	W	22	ALA
4	W	30	LYS
4	W	39	VAL
4	W	100	GLU
4	W	113	ILE
4	X	12	GLY
4	X	22	ALA
4	X	30	LYS
4	X	39	VAL
4	X	100	GLU
4	X	113	ILE
1	A	4	PRO
1	A	48	ARG
1	A	57	HIS
1	A	69	GLU
1	A	80	THR
1	A	105	ASN
1	A	123	LEU
1	A	158	ALA
1	A	180	LYS
1	A	190	VAL
1	A	265	GLU
1	A	317	LEU
1	A	334	LYS
1	A	340	HIS

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Mol	Chain	Res	Type
1	A	371	ALA
1	A	427	THR
1	A	453	ALA
1	A	474	GLN
1	A	481	GLY
1	A	517	MET
1	A	571	LYS
2	B	17	GLU
2	B	26	LYS
2	B	39	ALA
2	B	52	PRO
2	B	59	GLN
2	B	79	SER
2	B	103	ARG
2	B	130	LEU
2	B	131	LYS
2	B	135	PRO
2	B	139	LYS
2	B	176	VAL
2	B	192	PRO
2	B	216	GLU
2	B	221	PHE
2	B	307	ASN
2	B	324	PHE
2	B	334	VAL
2	B	336	LEU
2	B	368	ASP
2	B	390	ARG
2	B	411	ILE
2	B	423	ASN
2	B	454	GLU
2	B	488	ILE
2	B	504	GLN
2	B	521	ASP
1	C	4	PRO
1	C	48	ARG
1	C	57	HIS
1	C	69	GLU
1	C	80	THR
1	C	105	ASN
1	C	123	LEU
1	C	158	ALA

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Mol	Chain	Res	Type
1	C	180	LYS
1	C	190	VAL
1	C	265	GLU
1	C	317	LEU
1	C	334	LYS
1	C	340	HIS
1	C	371	ALA
1	C	427	THR
1	C	453	ALA
1	C	474	GLN
1	C	481	GLY
1	C	517	MET
1	C	571	LYS
2	D	17	GLU
2	D	26	LYS
2	D	39	ALA
2	D	52	PRO
2	D	59	GLN
2	D	79	SER
2	D	103	ARG
2	D	130	LEU
2	D	131	LYS
2	D	135	PRO
2	D	139	LYS
2	D	176	VAL
2	D	192	PRO
2	D	216	GLU
2	D	221	PHE
2	D	307	ASN
2	D	324	PHE
2	D	334	VAL
2	D	336	LEU
2	D	368	ASP
2	D	390	ARG
2	D	411	ILE
2	D	423	ASN
2	D	454	GLU
2	D	488	ILE
2	D	504	GLN
2	D	521	ASP
1	E	4	PRO
1	E	48	ARG

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Mol	Chain	Res	Type
1	E	57	HIS
1	E	69	GLU
1	E	80	THR
1	E	105	ASN
1	E	123	LEU
1	E	158	ALA
1	E	180	LYS
1	E	190	VAL
1	E	265	GLU
1	E	317	LEU
1	E	334	LYS
1	E	340	HIS
1	E	371	ALA
1	E	427	THR
1	E	453	ALA
1	E	474	GLN
1	E	481	GLY
1	E	517	MET
1	E	571	LYS
2	F	17	GLU
2	F	26	LYS
2	F	39	ALA
2	F	52	PRO
2	F	59	GLN
2	F	79	SER
2	F	103	ARG
2	F	130	LEU
2	F	131	LYS
2	F	135	PRO
2	F	139	LYS
2	F	176	VAL
2	F	192	PRO
2	F	216	GLU
2	F	221	PHE
2	F	307	ASN
2	F	324	PHE
2	F	336	LEU
2	F	368	ASP
2	F	390	ARG
2	F	411	ILE
2	F	423	ASN
2	F	454	GLU

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Mol	Chain	Res	Type
2	F	488	ILE
2	F	504	GLN
2	F	521	ASP
1	G	4	PRO
1	G	48	ARG
1	G	57	HIS
1	G	69	GLU
1	G	80	THR
1	G	85	GLY
1	G	105	ASN
1	G	123	LEU
1	G	158	ALA
1	G	180	LYS
1	G	190	VAL
1	G	265	GLU
1	G	317	LEU
1	G	334	LYS
1	G	340	HIS
1	G	371	ALA
1	G	427	THR
1	G	453	ALA
1	G	474	GLN
1	G	481	GLY
1	G	517	MET
1	G	571	LYS
2	H	17	GLU
2	H	26	LYS
2	H	39	ALA
2	H	52	PRO
2	H	59	GLN
2	H	79	SER
2	H	103	ARG
2	H	130	LEU
2	H	131	LYS
2	H	135	PRO
2	H	139	LYS
2	H	176	VAL
2	H	192	PRO
2	H	216	GLU
2	H	221	PHE
2	H	307	ASN
2	H	324	PHE

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Mol	Chain	Res	Type
2	H	334	VAL
2	H	336	LEU
2	H	368	ASP
2	H	390	ARG
2	H	411	ILE
2	H	423	ASN
2	H	454	GLU
2	H	488	ILE
2	H	504	GLN
2	H	521	ASP
1	I	4	PRO
1	I	48	ARG
1	I	57	HIS
1	I	69	GLU
1	I	80	THR
1	I	105	ASN
1	I	123	LEU
1	I	158	ALA
1	I	180	LYS
1	I	190	VAL
1	I	265	GLU
1	I	317	LEU
1	I	323	ASN
1	I	334	LYS
1	I	340	HIS
1	I	371	ALA
1	I	427	THR
1	I	453	ALA
1	I	474	GLN
1	I	481	GLY
1	I	517	MET
1	I	571	LYS
2	J	17	GLU
2	J	26	LYS
2	J	39	ALA
2	J	52	PRO
2	J	59	GLN
2	J	79	SER
2	J	103	ARG
2	J	130	LEU
2	J	131	LYS
2	J	135	PRO

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Mol	Chain	Res	Type
2	J	139	LYS
2	J	176	VAL
2	J	192	PRO
2	J	216	GLU
2	J	221	PHE
2	J	307	ASN
2	J	324	PHE
2	J	336	LEU
2	J	368	ASP
2	J	390	ARG
2	J	411	ILE
2	J	423	ASN
2	J	454	GLU
2	J	488	ILE
2	J	504	GLN
2	J	521	ASP
1	K	4	PRO
1	K	48	ARG
1	K	57	HIS
1	K	69	GLU
1	K	80	THR
1	K	105	ASN
1	K	123	LEU
1	K	158	ALA
1	K	180	LYS
1	K	190	VAL
1	K	265	GLU
1	K	317	LEU
1	K	334	LYS
1	K	340	HIS
1	K	371	ALA
1	K	427	THR
1	K	453	ALA
1	K	474	GLN
1	K	481	GLY
1	K	517	MET
1	K	571	LYS
2	L	17	GLU
2	L	26	LYS
2	L	39	ALA
2	L	52	PRO
2	L	59	GLN

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Mol	Chain	Res	Type
2	L	79	SER
2	L	103	ARG
2	L	130	LEU
2	L	131	LYS
2	L	135	PRO
2	L	139	LYS
2	L	176	VAL
2	L	192	PRO
2	L	216	GLU
2	L	221	PHE
2	L	307	ASN
2	L	324	PHE
2	L	336	LEU
2	L	368	ASP
2	L	390	ARG
2	L	411	ILE
2	L	423	ASN
2	L	454	GLU
2	L	488	ILE
2	L	504	GLN
2	L	521	ASP
3	M	63	ASN
3	M	78	SER
3	M	107	PHE
3	M	120	PHE
3	M	161	SER
3	M	166	TYR
3	M	187	GLY
3	M	304	ARG
3	N	63	ASN
3	N	78	SER
3	N	107	PHE
3	N	120	PHE
3	N	161	SER
3	N	166	TYR
3	N	187	GLY
3	N	304	ARG
3	O	63	ASN
3	O	78	SER
3	O	107	PHE
3	O	120	PHE
3	O	161	SER

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Mol	Chain	Res	Type
3	O	166	TYR
3	O	187	GLY
3	O	304	ARG
3	P	63	ASN
3	P	78	SER
3	P	107	PHE
3	P	120	PHE
3	P	161	SER
3	P	166	TYR
3	P	187	GLY
3	P	304	ARG
4	Q	73	GLY
4	Q	148	PRO
3	R	63	ASN
3	R	78	SER
3	R	107	PHE
3	R	120	PHE
3	R	161	SER
3	R	166	TYR
3	R	187	GLY
3	R	304	ARG
4	S	73	GLY
4	S	148	PRO
4	T	73	GLY
4	T	148	PRO
4	U	73	GLY
4	U	148	PRO
3	V	63	ASN
3	V	78	SER
3	V	107	PHE
3	V	120	PHE
3	V	161	SER
3	V	166	TYR
3	V	187	GLY
3	V	304	ARG
4	W	73	GLY
4	W	148	PRO
4	X	73	GLY
4	X	148	PRO
1	A	2	PRO
1	A	12	ARG
1	A	90	MET

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Mol	Chain	Res	Type
1	A	124	CYS
1	A	134	MET
1	A	139	ALA
1	A	185	GLU
1	A	195	VAL
1	A	236	ASP
1	A	254	ARG
1	A	311	ASN
1	A	369	SER
1	A	376	ASN
1	A	395	GLU
1	A	451	MET
1	A	476	ALA
1	A	477	ALA
1	A	485	ASP
1	A	507	ASP
2	B	16	PHE
2	B	51	PHE
2	B	178	ALA
2	B	315	GLU
2	B	339	LEU
2	B	369	PHE
2	B	410	ALA
2	B	415	LYS
2	B	449	ILE
2	B	525	ILE
2	B	538	LYS
1	C	2	PRO
1	C	12	ARG
1	C	90	MET
1	C	124	CYS
1	C	134	MET
1	C	139	ALA
1	C	185	GLU
1	C	195	VAL
1	C	220	VAL
1	C	236	ASP
1	C	254	ARG
1	C	311	ASN
1	C	369	SER
1	C	376	ASN
1	C	395	GLU

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Mol	Chain	Res	Type
1	C	451	MET
1	C	476	ALA
1	C	477	ALA
1	C	485	ASP
1	C	507	ASP
2	D	16	PHE
2	D	51	PHE
2	D	178	ALA
2	D	315	GLU
2	D	339	LEU
2	D	369	PHE
2	D	410	ALA
2	D	415	LYS
2	D	449	ILE
2	D	525	ILE
2	D	538	LYS
1	E	2	PRO
1	E	12	ARG
1	E	90	MET
1	E	124	CYS
1	E	134	MET
1	E	139	ALA
1	E	185	GLU
1	E	195	VAL
1	E	236	ASP
1	E	254	ARG
1	E	311	ASN
1	E	369	SER
1	E	376	ASN
1	E	395	GLU
1	E	476	ALA
1	E	477	ALA
1	E	485	ASP
1	E	507	ASP
1	E	557	VAL
2	F	16	PHE
2	F	51	PHE
2	F	178	ALA
2	F	315	GLU
2	F	334	VAL
2	F	339	LEU
2	F	369	PHE

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Mol	Chain	Res	Type
2	F	410	ALA
2	F	415	LYS
2	F	449	ILE
2	F	525	ILE
2	F	538	LYS
1	G	2	PRO
1	G	12	ARG
1	G	90	MET
1	G	124	CYS
1	G	134	MET
1	G	139	ALA
1	G	185	GLU
1	G	195	VAL
1	G	236	ASP
1	G	254	ARG
1	G	311	ASN
1	G	369	SER
1	G	376	ASN
1	G	395	GLU
1	G	451	MET
1	G	476	ALA
1	G	477	ALA
1	G	485	ASP
1	G	507	ASP
2	H	16	PHE
2	H	51	PHE
2	H	172	SER
2	H	178	ALA
2	H	315	GLU
2	H	339	LEU
2	H	369	PHE
2	H	410	ALA
2	H	415	LYS
2	H	449	ILE
2	H	525	ILE
2	H	538	LYS
1	I	2	PRO
1	I	12	ARG
1	I	90	MET
1	I	124	CYS
1	I	134	MET
1	I	139	ALA

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Mol	Chain	Res	Type
1	I	185	GLU
1	I	195	VAL
1	I	236	ASP
1	I	254	ARG
1	I	311	ASN
1	I	369	SER
1	I	376	ASN
1	I	395	GLU
1	I	451	MET
1	I	476	ALA
1	I	477	ALA
1	I	485	ASP
1	I	507	ASP
1	I	557	VAL
2	J	16	PHE
2	J	51	PHE
2	J	178	ALA
2	J	315	GLU
2	J	334	VAL
2	J	339	LEU
2	J	369	PHE
2	J	410	ALA
2	J	415	LYS
2	J	449	ILE
2	J	525	ILE
2	J	538	LYS
1	K	2	PRO
1	K	12	ARG
1	K	90	MET
1	K	124	CYS
1	K	134	MET
1	K	139	ALA
1	K	185	GLU
1	K	195	VAL
1	K	220	VAL
1	K	236	ASP
1	K	254	ARG
1	K	311	ASN
1	K	369	SER
1	K	376	ASN
1	K	395	GLU
1	K	451	MET

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Mol	Chain	Res	Type
1	K	476	ALA
1	K	477	ALA
1	K	485	ASP
1	K	507	ASP
2	L	16	PHE
2	L	51	PHE
2	L	178	ALA
2	L	315	GLU
2	L	334	VAL
2	L	339	LEU
2	L	369	PHE
2	L	410	ALA
2	L	415	LYS
2	L	449	ILE
2	L	525	ILE
2	L	538	LYS
3	M	12	LYS
3	M	37	LEU
3	M	89	GLN
3	M	106	ASN
3	M	130	ILE
3	M	234	GLU
3	M	247	PHE
3	N	12	LYS
3	N	37	LEU
3	N	89	GLN
3	N	106	ASN
3	N	130	ILE
3	N	234	GLU
3	N	247	PHE
3	O	12	LYS
3	O	37	LEU
3	O	89	GLN
3	O	106	ASN
3	O	130	ILE
3	O	234	GLU
3	O	247	PHE
3	P	12	LYS
3	P	37	LEU
3	P	89	GLN
3	P	106	ASN
3	P	130	ILE

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Mol	Chain	Res	Type
3	P	234	GLU
3	P	247	PHE
4	Q	90	LEU
4	Q	96	GLY
4	Q	111	TYR
4	Q	132	LEU
3	R	12	LYS
3	R	37	LEU
3	R	89	GLN
3	R	106	ASN
3	R	130	ILE
3	R	234	GLU
3	R	247	PHE
4	S	90	LEU
4	S	96	GLY
4	S	111	TYR
4	S	132	LEU
4	T	90	LEU
4	T	96	GLY
4	T	132	LEU
4	U	90	LEU
4	U	96	GLY
4	U	132	LEU
3	V	12	LYS
3	V	37	LEU
3	V	89	GLN
3	V	106	ASN
3	V	130	ILE
3	V	234	GLU
3	V	247	PHE
4	W	90	LEU
4	W	96	GLY
4	W	132	LEU
4	X	90	LEU
4	X	96	GLY
4	X	132	LEU
1	A	10	LEU
1	A	64	HIS
1	A	133	GLU
1	A	220	VAL
1	A	263	SER
1	A	350	ILE

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Mol	Chain	Res	Type
1	A	359	VAL
1	A	366	MET
1	A	367	GLU
1	A	370	PHE
1	A	388	PHE
1	A	394	PRO
1	A	397	LYS
1	A	524	GLY
1	A	557	VAL
1	A	565	GLU
2	B	53	ASP
2	B	123	CYS
2	B	172	SER
2	B	226	LEU
2	B	254	ALA
2	B	293	SER
2	B	378	GLY
2	B	476	GLU
2	B	477	SER
2	B	489	VAL
1	C	10	LEU
1	C	11	ILE
1	C	64	HIS
1	C	133	GLU
1	C	263	SER
1	C	350	ILE
1	C	359	VAL
1	C	366	MET
1	C	367	GLU
1	C	370	PHE
1	C	388	PHE
1	C	394	PRO
1	C	397	LYS
1	C	524	GLY
1	C	557	VAL
1	C	565	GLU
2	D	53	ASP
2	D	123	CYS
2	D	172	SER
2	D	226	LEU
2	D	254	ALA
2	D	293	SER

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Mol	Chain	Res	Type
2	D	378	GLY
2	D	476	GLU
2	D	477	SER
2	D	489	VAL
1	E	10	LEU
1	E	64	HIS
1	E	133	GLU
1	E	220	VAL
1	E	263	SER
1	E	350	ILE
1	E	359	VAL
1	E	366	MET
1	E	367	GLU
1	E	370	PHE
1	E	388	PHE
1	E	394	PRO
1	E	397	LYS
1	E	451	MET
1	E	524	GLY
1	E	565	GLU
2	F	53	ASP
2	F	123	CYS
2	F	172	SER
2	F	226	LEU
2	F	254	ALA
2	F	293	SER
2	F	378	GLY
2	F	476	GLU
2	F	477	SER
2	F	489	VAL
1	G	10	LEU
1	G	11	ILE
1	G	64	HIS
1	G	133	GLU
1	G	220	VAL
1	G	263	SER
1	G	350	ILE
1	G	359	VAL
1	G	366	MET
1	G	367	GLU
1	G	370	PHE
1	G	388	PHE

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Mol	Chain	Res	Type
1	G	394	PRO
1	G	397	LYS
1	G	524	GLY
1	G	557	VAL
1	G	565	GLU
2	H	53	ASP
2	H	123	CYS
2	H	226	LEU
2	H	254	ALA
2	H	293	SER
2	H	378	GLY
2	H	476	GLU
2	H	477	SER
2	H	489	VAL
1	I	10	LEU
1	I	11	ILE
1	I	64	HIS
1	I	133	GLU
1	I	220	VAL
1	I	263	SER
1	I	350	ILE
1	I	359	VAL
1	I	366	MET
1	I	367	GLU
1	I	370	PHE
1	I	388	PHE
1	I	394	PRO
1	I	397	LYS
1	I	524	GLY
1	I	565	GLU
2	J	53	ASP
2	J	123	CYS
2	J	172	SER
2	J	226	LEU
2	J	254	ALA
2	J	293	SER
2	J	378	GLY
2	J	458	ARG
2	J	476	GLU
2	J	477	SER
2	J	489	VAL
1	K	10	LEU

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Mol	Chain	Res	Type
1	K	11	ILE
1	K	64	HIS
1	K	133	GLU
1	K	263	SER
1	K	350	ILE
1	K	359	VAL
1	K	366	MET
1	K	367	GLU
1	K	370	PHE
1	K	388	PHE
1	K	394	PRO
1	K	397	LYS
1	K	524	GLY
1	K	557	VAL
1	K	565	GLU
2	L	53	ASP
2	L	123	CYS
2	L	172	SER
2	L	226	LEU
2	L	254	ALA
2	L	293	SER
2	L	378	GLY
2	L	476	GLU
2	L	477	SER
2	L	489	VAL
3	M	275	PRO
3	N	275	PRO
3	O	275	PRO
3	P	275	PRO
4	Q	4	PHE
4	Q	31	MET
4	Q	84	ILE
4	Q	85	HIS
3	R	275	PRO
4	S	4	PHE
4	S	31	MET
4	S	84	ILE
4	S	85	HIS
4	T	4	PHE
4	T	31	MET
4	T	84	ILE
4	T	85	HIS

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Mol	Chain	Res	Type
4	T	111	TYR
4	U	4	PHE
4	U	31	MET
4	U	84	ILE
4	U	85	HIS
4	U	111	TYR
3	V	275	PRO
4	W	4	PHE
4	W	31	MET
4	W	84	ILE
4	W	85	HIS
4	W	111	TYR
4	X	4	PHE
4	X	31	MET
4	X	84	ILE
4	X	85	HIS
4	X	111	TYR
1	A	11	ILE
1	A	233	PRO
1	A	244	PHE
1	A	249	ILE
1	A	380	GLY
1	A	437	ALA
2	B	143	VAL
2	B	287	PRO
2	B	301	VAL
2	B	322	LYS
2	B	335	LYS
2	B	458	ARG
1	C	233	PRO
1	C	244	PHE
1	C	249	ILE
1	C	380	GLY
1	C	437	ALA
2	D	143	VAL
2	D	219	GLN
2	D	287	PRO
2	D	301	VAL
2	D	322	LYS
2	D	335	LYS
2	D	458	ARG
1	E	11	ILE

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Mol	Chain	Res	Type
1	E	233	PRO
1	E	244	PHE
1	E	249	ILE
1	E	380	GLY
1	E	437	ALA
2	F	143	VAL
2	F	219	GLN
2	F	287	PRO
2	F	301	VAL
2	F	322	LYS
2	F	335	LYS
2	F	458	ARG
1	G	233	PRO
1	G	244	PHE
1	G	249	ILE
1	G	380	GLY
1	G	437	ALA
2	H	143	VAL
2	H	287	PRO
2	H	301	VAL
2	H	322	LYS
2	H	335	LYS
2	H	458	ARG
1	I	233	PRO
1	I	244	PHE
1	I	249	ILE
1	I	380	GLY
1	I	437	ALA
2	J	143	VAL
2	J	219	GLN
2	J	287	PRO
2	J	301	VAL
2	J	322	LYS
2	J	335	LYS
1	K	233	PRO
1	K	244	PHE
1	K	249	ILE
1	K	380	GLY
1	K	437	ALA
2	L	143	VAL
2	L	287	PRO
2	L	301	VAL

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Mol	Chain	Res	Type
2	L	322	LYS
2	L	335	LYS
2	L	458	ARG
3	M	99	GLU
3	N	99	GLU
3	O	99	GLU
3	P	99	GLU
3	R	99	GLU
3	V	99	GLU
2	B	256	VAL
2	B	453	GLY
2	D	256	VAL
2	D	453	GLY
2	F	256	VAL
2	F	453	GLY
2	H	256	VAL
2	H	453	GLY
2	J	256	VAL
2	J	453	GLY
2	L	256	VAL
2	L	453	GLY
1	A	419	ILE
2	B	496	PRO
1	C	419	ILE
2	D	496	PRO
1	E	419	ILE
1	E	475	VAL
2	F	496	PRO
1	G	419	ILE
2	H	496	PRO
1	I	419	ILE
2	J	496	PRO
1	K	419	ILE
2	L	496	PRO
1	A	237	VAL
1	A	475	VAL
2	B	107	VAL
2	B	137	VAL
2	B	343	ILE
2	B	354	VAL
1	C	237	VAL
1	C	475	VAL

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Mol	Chain	Res	Type
2	D	107	VAL
2	D	137	VAL
2	D	343	ILE
2	D	354	VAL
1	E	237	VAL
2	F	107	VAL
2	F	137	VAL
2	F	343	ILE
2	F	354	VAL
1	G	237	VAL
1	G	475	VAL
2	H	107	VAL
2	H	137	VAL
2	H	343	ILE
2	H	354	VAL
1	I	237	VAL
1	I	475	VAL
2	J	107	VAL
2	J	137	VAL
2	J	302	PRO
2	J	343	ILE
2	J	354	VAL
1	K	237	VAL
1	K	475	VAL
2	L	107	VAL
2	L	137	VAL
2	L	302	PRO
2	L	343	ILE
2	L	354	VAL
3	P	407	PRO
1	A	169	PRO
2	B	302	PRO
2	B	429	ILE
1	C	169	PRO
2	D	302	PRO
2	D	429	ILE
1	E	169	PRO
2	F	302	PRO
2	F	429	ILE
1	G	169	PRO
2	H	302	PRO
2	H	429	ILE

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Mol	Chain	Res	Type
1	I	169	PRO
2	J	429	ILE
1	K	169	PRO
2	L	429	ILE
3	M	258	PRO
3	M	407	PRO
3	N	258	PRO
3	N	407	PRO
3	O	258	PRO
3	O	407	PRO
3	P	258	PRO
3	R	258	PRO
3	R	407	PRO
3	V	258	PRO
3	V	407	PRO

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 X-ray entries followed by that with respect to entries of similar resolution.

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
1	A	523/546 (96%)	478 (91%)	45 (9%)	10 33
1	C	523/546 (96%)	478 (91%)	45 (9%)	10 33
1	E	523/546 (96%)	478 (91%)	45 (9%)	10 33
1	G	523/546 (96%)	478 (91%)	45 (9%)	10 33
1	I	523/546 (96%)	478 (91%)	45 (9%)	10 33
1	K	523/546 (96%)	478 (91%)	45 (9%)	10 33
2	B	515/523 (98%)	469 (91%)	46 (9%)	9 31
2	D	515/523 (98%)	469 (91%)	46 (9%)	9 31
2	F	515/523 (98%)	469 (91%)	46 (9%)	9 31
2	H	515/523 (98%)	469 (91%)	46 (9%)	9 31
2	J	515/523 (98%)	469 (91%)	46 (9%)	9 31
2	L	515/523 (98%)	469 (91%)	46 (9%)	9 31

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
3	M	355/383 (93%)	317 (89%)	38 (11%)	6	24
3	N	355/383 (93%)	317 (89%)	38 (11%)	6	24
3	O	355/383 (93%)	317 (89%)	38 (11%)	6	24
3	P	355/383 (93%)	317 (89%)	38 (11%)	6	24
3	R	355/383 (93%)	317 (89%)	38 (11%)	6	24
3	V	355/383 (93%)	317 (89%)	38 (11%)	6	24
4	Q	136/144 (94%)	118 (87%)	18 (13%)	4	18
4	S	136/144 (94%)	118 (87%)	18 (13%)	4	18
4	T	136/144 (94%)	118 (87%)	18 (13%)	4	18
4	U	136/144 (94%)	118 (87%)	18 (13%)	4	18
4	W	136/144 (94%)	118 (87%)	18 (13%)	4	18
4	X	136/144 (94%)	118 (87%)	18 (13%)	4	18
All	All	9174/9576 (96%)	8292 (90%)	882 (10%)	8	28

All (882) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	1	MET
1	A	7	LEU
1	A	15	ARG
1	A	36	SER
1	A	47	CYS
1	A	77	GLN
1	A	98	ASP
1	A	103	MET
1	A	105	ASN
1	A	134	MET
1	A	135	CYS
1	A	138	LEU
1	A	153	LEU
1	A	172	MET
1	A	177	PRO
1	A	197	LEU
1	A	201	MET
1	A	208	MET
1	A	240	ILE
1	A	241	SER
1	A	242	ASP

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Mol	Chain	Res	Type
1	A	264	SER
1	A	283	ASN
1	A	305	LEU
1	A	313	LEU
1	A	327	VAL
1	A	369	SER
1	A	370	PHE
1	A	395	GLU
1	A	411	TYR
1	A	415	LYS
1	A	434	ARG
1	A	449	VAL
1	A	451	MET
1	A	456	VAL
1	A	463	ILE
1	A	491	GLN
1	A	494	GLU
1	A	496	GLU
1	A	518	SER
1	A	531	MET
1	A	534	SER
1	A	567	ASN
1	A	577	ARG
1	A	584	MET
2	B	8	THR
2	B	18	LEU
2	B	38	ILE
2	B	59	GLN
2	B	62	ASN
2	B	94	ASP
2	B	122	LEU
2	B	123	CYS
2	B	138	ARG
2	B	164	THR
2	B	179	ASN
2	B	189	GLU
2	B	211	LEU
2	B	226	LEU
2	B	230	MET
2	B	233	ASP
2	B	242	GLU
2	B	257	LEU

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Mol	Chain	Res	Type
2	B	280	LEU
2	B	284	LEU
2	B	287	PRO
2	B	290	THR
2	B	313	ARG
2	B	317	LEU
2	B	345	LEU
2	B	355	LEU
2	B	358	LEU
2	B	390	ARG
2	B	421	TYR
2	B	426	GLU
2	B	432	LEU
2	B	433	CYS
2	B	436	LEU
2	B	438	SER
2	B	439	ASP
2	B	442	PRO
2	B	458	ARG
2	B	463	ASP
2	B	486	THR
2	B	491	LEU
2	B	498	GLU
2	B	517	PRO
2	B	527	TRP
2	B	541	VAL
2	B	566	TYR
2	B	578	PRO
1	C	1	MET
1	C	7	LEU
1	C	15	ARG
1	C	36	SER
1	C	47	CYS
1	C	77	GLN
1	C	98	ASP
1	C	103	MET
1	C	105	ASN
1	C	134	MET
1	C	135	CYS
1	C	138	LEU
1	C	153	LEU
1	C	172	MET

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Mol	Chain	Res	Type
1	C	177	PRO
1	C	197	LEU
1	C	201	MET
1	C	208	MET
1	C	240	ILE
1	C	241	SER
1	C	242	ASP
1	C	264	SER
1	C	283	ASN
1	C	305	LEU
1	C	313	LEU
1	C	327	VAL
1	C	369	SER
1	C	370	PHE
1	C	395	GLU
1	C	411	TYR
1	C	415	LYS
1	C	434	ARG
1	C	449	VAL
1	C	451	MET
1	C	456	VAL
1	C	463	ILE
1	C	491	GLN
1	C	494	GLU
1	C	496	GLU
1	C	518	SER
1	C	531	MET
1	C	534	SER
1	C	567	ASN
1	C	577	ARG
1	C	584	MET
2	D	8	THR
2	D	18	LEU
2	D	38	ILE
2	D	59	GLN
2	D	62	ASN
2	D	94	ASP
2	D	122	LEU
2	D	123	CYS
2	D	138	ARG
2	D	164	THR
2	D	179	ASN

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Mol	Chain	Res	Type
2	D	189	GLU
2	D	211	LEU
2	D	226	LEU
2	D	230	MET
2	D	233	ASP
2	D	242	GLU
2	D	257	LEU
2	D	280	LEU
2	D	284	LEU
2	D	287	PRO
2	D	290	THR
2	D	313	ARG
2	D	317	LEU
2	D	345	LEU
2	D	355	LEU
2	D	358	LEU
2	D	390	ARG
2	D	421	TYR
2	D	426	GLU
2	D	432	LEU
2	D	433	CYS
2	D	436	LEU
2	D	438	SER
2	D	439	ASP
2	D	442	PRO
2	D	458	ARG
2	D	463	ASP
2	D	486	THR
2	D	491	LEU
2	D	498	GLU
2	D	517	PRO
2	D	527	TRP
2	D	541	VAL
2	D	566	TYR
2	D	578	PRO
1	E	1	MET
1	E	7	LEU
1	E	15	ARG
1	E	36	SER
1	E	47	CYS
1	E	77	GLN
1	E	98	ASP

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Mol	Chain	Res	Type
1	E	103	MET
1	E	105	ASN
1	E	134	MET
1	E	135	CYS
1	E	138	LEU
1	E	153	LEU
1	E	172	MET
1	E	177	PRO
1	E	197	LEU
1	E	201	MET
1	E	208	MET
1	E	240	ILE
1	E	241	SER
1	E	242	ASP
1	E	264	SER
1	E	283	ASN
1	E	305	LEU
1	E	313	LEU
1	E	327	VAL
1	E	369	SER
1	E	370	PHE
1	E	395	GLU
1	E	411	TYR
1	E	415	LYS
1	E	434	ARG
1	E	449	VAL
1	E	451	MET
1	E	456	VAL
1	E	463	ILE
1	E	491	GLN
1	E	494	GLU
1	E	496	GLU
1	E	518	SER
1	E	531	MET
1	E	534	SER
1	E	567	ASN
1	E	577	ARG
1	E	584	MET
2	F	8	THR
2	F	18	LEU
2	F	38	ILE
2	F	59	GLN

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Mol	Chain	Res	Type
2	F	62	ASN
2	F	94	ASP
2	F	122	LEU
2	F	123	CYS
2	F	138	ARG
2	F	164	THR
2	F	179	ASN
2	F	189	GLU
2	F	211	LEU
2	F	226	LEU
2	F	230	MET
2	F	233	ASP
2	F	242	GLU
2	F	257	LEU
2	F	280	LEU
2	F	284	LEU
2	F	287	PRO
2	F	290	THR
2	F	313	ARG
2	F	317	LEU
2	F	345	LEU
2	F	355	LEU
2	F	358	LEU
2	F	390	ARG
2	F	421	TYR
2	F	426	GLU
2	F	432	LEU
2	F	433	CYS
2	F	436	LEU
2	F	438	SER
2	F	439	ASP
2	F	442	PRO
2	F	458	ARG
2	F	463	ASP
2	F	486	THR
2	F	491	LEU
2	F	498	GLU
2	F	517	PRO
2	F	527	TRP
2	F	541	VAL
2	F	566	TYR
2	F	578	PRO

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Mol	Chain	Res	Type
1	G	1	MET
1	G	7	LEU
1	G	15	ARG
1	G	36	SER
1	G	47	CYS
1	G	77	GLN
1	G	98	ASP
1	G	103	MET
1	G	105	ASN
1	G	134	MET
1	G	135	CYS
1	G	138	LEU
1	G	153	LEU
1	G	172	MET
1	G	177	PRO
1	G	197	LEU
1	G	201	MET
1	G	208	MET
1	G	240	ILE
1	G	241	SER
1	G	242	ASP
1	G	264	SER
1	G	283	ASN
1	G	305	LEU
1	G	313	LEU
1	G	327	VAL
1	G	369	SER
1	G	370	PHE
1	G	395	GLU
1	G	411	TYR
1	G	415	LYS
1	G	434	ARG
1	G	449	VAL
1	G	451	MET
1	G	456	VAL
1	G	463	ILE
1	G	491	GLN
1	G	494	GLU
1	G	496	GLU
1	G	518	SER
1	G	531	MET
1	G	534	SER

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Mol	Chain	Res	Type
1	G	567	ASN
1	G	577	ARG
1	G	584	MET
2	H	8	THR
2	H	18	LEU
2	H	38	ILE
2	H	59	GLN
2	H	62	ASN
2	H	94	ASP
2	H	122	LEU
2	H	123	CYS
2	H	138	ARG
2	H	164	THR
2	H	179	ASN
2	H	189	GLU
2	H	211	LEU
2	H	226	LEU
2	H	230	MET
2	H	233	ASP
2	H	242	GLU
2	H	257	LEU
2	H	280	LEU
2	H	284	LEU
2	H	287	PRO
2	H	290	THR
2	H	313	ARG
2	H	317	LEU
2	H	345	LEU
2	H	355	LEU
2	H	358	LEU
2	H	390	ARG
2	H	421	TYR
2	H	426	GLU
2	H	432	LEU
2	H	433	CYS
2	H	436	LEU
2	H	438	SER
2	H	439	ASP
2	H	442	PRO
2	H	458	ARG
2	H	463	ASP
2	H	486	THR

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Mol	Chain	Res	Type
2	H	491	LEU
2	H	498	GLU
2	H	517	PRO
2	H	527	TRP
2	H	541	VAL
2	H	566	TYR
2	H	578	PRO
1	I	1	MET
1	I	7	LEU
1	I	15	ARG
1	I	36	SER
1	I	47	CYS
1	I	77	GLN
1	I	98	ASP
1	I	103	MET
1	I	105	ASN
1	I	134	MET
1	I	135	CYS
1	I	138	LEU
1	I	153	LEU
1	I	172	MET
1	I	177	PRO
1	I	197	LEU
1	I	201	MET
1	I	208	MET
1	I	240	ILE
1	I	241	SER
1	I	242	ASP
1	I	264	SER
1	I	283	ASN
1	I	305	LEU
1	I	313	LEU
1	I	327	VAL
1	I	369	SER
1	I	370	PHE
1	I	395	GLU
1	I	411	TYR
1	I	415	LYS
1	I	434	ARG
1	I	449	VAL
1	I	451	MET
1	I	456	VAL

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Mol	Chain	Res	Type
1	I	463	ILE
1	I	491	GLN
1	I	494	GLU
1	I	496	GLU
1	I	518	SER
1	I	531	MET
1	I	534	SER
1	I	567	ASN
1	I	577	ARG
1	I	584	MET
2	J	8	THR
2	J	18	LEU
2	J	38	ILE
2	J	59	GLN
2	J	62	ASN
2	J	94	ASP
2	J	122	LEU
2	J	123	CYS
2	J	138	ARG
2	J	164	THR
2	J	179	ASN
2	J	189	GLU
2	J	211	LEU
2	J	226	LEU
2	J	230	MET
2	J	233	ASP
2	J	242	GLU
2	J	257	LEU
2	J	280	LEU
2	J	284	LEU
2	J	287	PRO
2	J	290	THR
2	J	313	ARG
2	J	317	LEU
2	J	345	LEU
2	J	355	LEU
2	J	358	LEU
2	J	390	ARG
2	J	421	TYR
2	J	426	GLU
2	J	432	LEU
2	J	433	CYS

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Mol	Chain	Res	Type
2	J	436	LEU
2	J	438	SER
2	J	439	ASP
2	J	442	PRO
2	J	458	ARG
2	J	463	ASP
2	J	486	THR
2	J	491	LEU
2	J	498	GLU
2	J	517	PRO
2	J	527	TRP
2	J	541	VAL
2	J	566	TYR
2	J	578	PRO
1	K	1	MET
1	K	7	LEU
1	K	15	ARG
1	K	36	SER
1	K	47	CYS
1	K	77	GLN
1	K	98	ASP
1	K	103	MET
1	K	105	ASN
1	K	134	MET
1	K	135	CYS
1	K	138	LEU
1	K	153	LEU
1	K	172	MET
1	K	177	PRO
1	K	197	LEU
1	K	201	MET
1	K	208	MET
1	K	240	ILE
1	K	241	SER
1	K	242	ASP
1	K	264	SER
1	K	283	ASN
1	K	305	LEU
1	K	313	LEU
1	K	327	VAL
1	K	369	SER
1	K	370	PHE

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Mol	Chain	Res	Type
1	K	395	GLU
1	K	411	TYR
1	K	415	LYS
1	K	434	ARG
1	K	449	VAL
1	K	451	MET
1	K	456	VAL
1	K	463	ILE
1	K	491	GLN
1	K	494	GLU
1	K	496	GLU
1	K	518	SER
1	K	531	MET
1	K	534	SER
1	K	567	ASN
1	K	577	ARG
1	K	584	MET
2	L	8	THR
2	L	18	LEU
2	L	38	ILE
2	L	59	GLN
2	L	62	ASN
2	L	94	ASP
2	L	122	LEU
2	L	123	CYS
2	L	138	ARG
2	L	164	THR
2	L	179	ASN
2	L	189	GLU
2	L	211	LEU
2	L	226	LEU
2	L	230	MET
2	L	233	ASP
2	L	242	GLU
2	L	257	LEU
2	L	280	LEU
2	L	284	LEU
2	L	287	PRO
2	L	290	THR
2	L	313	ARG
2	L	317	LEU
2	L	345	LEU

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Mol	Chain	Res	Type
2	L	355	LEU
2	L	358	LEU
2	L	390	ARG
2	L	421	TYR
2	L	426	GLU
2	L	432	LEU
2	L	433	CYS
2	L	436	LEU
2	L	438	SER
2	L	439	ASP
2	L	442	PRO
2	L	458	ARG
2	L	463	ASP
2	L	486	THR
2	L	491	LEU
2	L	498	GLU
2	L	517	PRO
2	L	527	TRP
2	L	541	VAL
2	L	566	TYR
2	L	578	PRO
3	M	7	TYR
3	M	11	LEU
3	M	15	VAL
3	M	16	LEU
3	M	17	ILE
3	M	27	MET
3	M	30	VAL
3	M	42	GLU
3	M	46	LEU
3	M	56	ARG
3	M	71	SER
3	M	78	SER
3	M	94	TYR
3	M	98	LEU
3	M	118	MET
3	M	137	GLN
3	M	158	SER
3	M	166	TYR
3	M	168	LYS
3	M	174	ASP
3	M	192	SER

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Mol	Chain	Res	Type
3	M	200	MET
3	M	203	PHE
3	M	207	MET
3	M	210	LEU
3	M	248	GLU
3	M	253	ILE
3	M	255	PHE
3	M	269	LEU
3	M	270	ASN
3	M	333	LYS
3	M	341	ILE
3	M	359	HIS
3	M	380	PHE
3	M	384	TYR
3	M	397	ILE
3	M	399	GLU
3	M	414	GLN
3	N	7	TYR
3	N	11	LEU
3	N	15	VAL
3	N	16	LEU
3	N	17	ILE
3	N	27	MET
3	N	30	VAL
3	N	42	GLU
3	N	46	LEU
3	N	56	ARG
3	N	71	SER
3	N	78	SER
3	N	94	TYR
3	N	98	LEU
3	N	118	MET
3	N	137	GLN
3	N	158	SER
3	N	166	TYR
3	N	168	LYS
3	N	174	ASP
3	N	192	SER
3	N	200	MET
3	N	203	PHE
3	N	207	MET
3	N	210	LEU

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Mol	Chain	Res	Type
3	N	248	GLU
3	N	253	ILE
3	N	255	PHE
3	N	269	LEU
3	N	270	ASN
3	N	333	LYS
3	N	341	ILE
3	N	359	HIS
3	N	380	PHE
3	N	384	TYR
3	N	397	ILE
3	N	399	GLU
3	N	414	GLN
3	O	7	TYR
3	O	11	LEU
3	O	15	VAL
3	O	16	LEU
3	O	17	ILE
3	O	27	MET
3	O	30	VAL
3	O	42	GLU
3	O	46	LEU
3	O	56	ARG
3	O	71	SER
3	O	78	SER
3	O	94	TYR
3	O	98	LEU
3	O	118	MET
3	O	137	GLN
3	O	158	SER
3	O	166	TYR
3	O	168	LYS
3	O	174	ASP
3	O	192	SER
3	O	200	MET
3	O	203	PHE
3	O	207	MET
3	O	210	LEU
3	O	248	GLU
3	O	253	ILE
3	O	255	PHE
3	O	269	LEU

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Mol	Chain	Res	Type
3	O	270	ASN
3	O	333	LYS
3	O	341	ILE
3	O	359	HIS
3	O	380	PHE
3	O	384	TYR
3	O	397	ILE
3	O	399	GLU
3	O	414	GLN
3	P	7	TYR
3	P	11	LEU
3	P	15	VAL
3	P	16	LEU
3	P	17	ILE
3	P	27	MET
3	P	30	VAL
3	P	42	GLU
3	P	46	LEU
3	P	56	ARG
3	P	71	SER
3	P	78	SER
3	P	94	TYR
3	P	98	LEU
3	P	118	MET
3	P	137	GLN
3	P	158	SER
3	P	166	TYR
3	P	168	LYS
3	P	174	ASP
3	P	192	SER
3	P	200	MET
3	P	203	PHE
3	P	207	MET
3	P	210	LEU
3	P	248	GLU
3	P	253	ILE
3	P	255	PHE
3	P	269	LEU
3	P	270	ASN
3	P	333	LYS
3	P	341	ILE
3	P	359	HIS

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Mol	Chain	Res	Type
3	P	380	PHE
3	P	384	TYR
3	P	397	ILE
3	P	399	GLU
3	P	414	GLN
4	Q	8	PHE
4	Q	11	GLN
4	Q	14	LEU
4	Q	16	LEU
4	Q	30	LYS
4	Q	31	MET
4	Q	35	LEU
4	Q	40	LEU
4	Q	57	VAL
4	Q	59	TYR
4	Q	66	TYR
4	Q	76	ASN
4	Q	83	LEU
4	Q	86	ARG
4	Q	97	SER
4	Q	107	PHE
4	Q	123	VAL
4	Q	125	ASP
3	R	7	TYR
3	R	11	LEU
3	R	15	VAL
3	R	16	LEU
3	R	17	ILE
3	R	27	MET
3	R	30	VAL
3	R	42	GLU
3	R	46	LEU
3	R	56	ARG
3	R	71	SER
3	R	78	SER
3	R	94	TYR
3	R	98	LEU
3	R	118	MET
3	R	137	GLN
3	R	158	SER
3	R	166	TYR
3	R	168	LYS

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Mol	Chain	Res	Type
3	R	174	ASP
3	R	192	SER
3	R	200	MET
3	R	203	PHE
3	R	207	MET
3	R	210	LEU
3	R	248	GLU
3	R	253	ILE
3	R	255	PHE
3	R	269	LEU
3	R	270	ASN
3	R	333	LYS
3	R	341	ILE
3	R	359	HIS
3	R	380	PHE
3	R	384	TYR
3	R	397	ILE
3	R	399	GLU
3	R	414	GLN
4	S	8	PHE
4	S	11	GLN
4	S	14	LEU
4	S	16	LEU
4	S	30	LYS
4	S	31	MET
4	S	35	LEU
4	S	40	LEU
4	S	57	VAL
4	S	59	TYR
4	S	66	TYR
4	S	76	ASN
4	S	83	LEU
4	S	86	ARG
4	S	97	SER
4	S	107	PHE
4	S	123	VAL
4	S	125	ASP
4	T	8	PHE
4	T	11	GLN
4	T	14	LEU
4	T	16	LEU
4	T	30	LYS

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Mol	Chain	Res	Type
4	T	31	MET
4	T	35	LEU
4	T	40	LEU
4	T	57	VAL
4	T	59	TYR
4	T	66	TYR
4	T	76	ASN
4	T	83	LEU
4	T	86	ARG
4	T	97	SER
4	T	107	PHE
4	T	123	VAL
4	T	125	ASP
4	U	8	PHE
4	U	11	GLN
4	U	14	LEU
4	U	16	LEU
4	U	30	LYS
4	U	31	MET
4	U	35	LEU
4	U	40	LEU
4	U	57	VAL
4	U	59	TYR
4	U	66	TYR
4	U	76	ASN
4	U	83	LEU
4	U	86	ARG
4	U	97	SER
4	U	107	PHE
4	U	123	VAL
4	U	125	ASP
3	V	7	TYR
3	V	11	LEU
3	V	15	VAL
3	V	16	LEU
3	V	17	ILE
3	V	27	MET
3	V	30	VAL
3	V	42	GLU
3	V	46	LEU
3	V	56	ARG
3	V	71	SER

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Mol	Chain	Res	Type
3	V	78	SER
3	V	94	TYR
3	V	98	LEU
3	V	118	MET
3	V	137	GLN
3	V	158	SER
3	V	166	TYR
3	V	168	LYS
3	V	174	ASP
3	V	192	SER
3	V	200	MET
3	V	203	PHE
3	V	207	MET
3	V	210	LEU
3	V	248	GLU
3	V	253	ILE
3	V	255	PHE
3	V	269	LEU
3	V	270	ASN
3	V	333	LYS
3	V	341	ILE
3	V	359	HIS
3	V	380	PHE
3	V	384	TYR
3	V	397	ILE
3	V	399	GLU
3	V	414	GLN
4	W	8	PHE
4	W	11	GLN
4	W	14	LEU
4	W	16	LEU
4	W	30	LYS
4	W	31	MET
4	W	35	LEU
4	W	40	LEU
4	W	57	VAL
4	W	59	TYR
4	W	66	TYR
4	W	76	ASN
4	W	83	LEU
4	W	86	ARG
4	W	97	SER

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Mol	Chain	Res	Type
4	W	107	PHE
4	W	123	VAL
4	W	125	ASP
4	X	8	PHE
4	X	11	GLN
4	X	14	LEU
4	X	16	LEU
4	X	30	LYS
4	X	31	MET
4	X	35	LEU
4	X	40	LEU
4	X	57	VAL
4	X	59	TYR
4	X	66	TYR
4	X	76	ASN
4	X	83	LEU
4	X	86	ARG
4	X	97	SER
4	X	107	PHE
4	X	123	VAL
4	X	125	ASP

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (217) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	20	GLN
1	A	43	ASN
1	A	67	GLN
1	A	100	HIS
1	A	105	ASN
1	A	113	HIS
1	A	150	ASN
1	A	163	HIS
1	A	187	ASN
1	A	188	HIS
1	A	211	HIS
1	A	235	HIS
1	A	311	ASN
1	A	374	ASN
1	A	377	ASN
1	A	443	GLN
1	A	469	GLN

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Mol	Chain	Res	Type
1	A	542	ASN
1	A	567	ASN
2	B	59	GLN
2	B	75	ASN
2	B	99	ASN
2	B	152	ASN
2	B	228	ASN
2	B	311	GLN
2	B	350	ASN
2	B	400	GLN
2	B	481	GLN
1	C	20	GLN
1	C	43	ASN
1	C	67	GLN
1	C	100	HIS
1	C	105	ASN
1	C	113	HIS
1	C	150	ASN
1	C	163	HIS
1	C	187	ASN
1	C	188	HIS
1	C	211	HIS
1	C	235	HIS
1	C	311	ASN
1	C	374	ASN
1	C	377	ASN
1	C	443	GLN
1	C	469	GLN
1	C	567	ASN
2	D	56	ASN
2	D	59	GLN
2	D	75	ASN
2	D	99	ASN
2	D	152	ASN
2	D	228	ASN
2	D	311	GLN
2	D	350	ASN
2	D	400	GLN
2	D	461	ASN
2	D	481	GLN
1	E	20	GLN
1	E	43	ASN

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Mol	Chain	Res	Type
1	E	67	GLN
1	E	100	HIS
1	E	105	ASN
1	E	113	HIS
1	E	150	ASN
1	E	163	HIS
1	E	187	ASN
1	E	188	HIS
1	E	211	HIS
1	E	235	HIS
1	E	374	ASN
1	E	377	ASN
1	E	443	GLN
1	E	469	GLN
1	E	567	ASN
2	F	56	ASN
2	F	59	GLN
2	F	75	ASN
2	F	99	ASN
2	F	152	ASN
2	F	228	ASN
2	F	311	GLN
2	F	350	ASN
2	F	400	GLN
2	F	481	GLN
1	G	20	GLN
1	G	43	ASN
1	G	67	GLN
1	G	100	HIS
1	G	105	ASN
1	G	113	HIS
1	G	150	ASN
1	G	163	HIS
1	G	187	ASN
1	G	188	HIS
1	G	211	HIS
1	G	235	HIS
1	G	311	ASN
1	G	374	ASN
1	G	377	ASN
1	G	443	GLN
1	G	469	GLN

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Mol	Chain	Res	Type
1	G	567	ASN
2	H	59	GLN
2	H	75	ASN
2	H	99	ASN
2	H	152	ASN
2	H	228	ASN
2	H	311	GLN
2	H	350	ASN
2	H	400	GLN
2	H	481	GLN
1	I	20	GLN
1	I	43	ASN
1	I	67	GLN
1	I	100	HIS
1	I	105	ASN
1	I	113	HIS
1	I	150	ASN
1	I	163	HIS
1	I	187	ASN
1	I	188	HIS
1	I	211	HIS
1	I	235	HIS
1	I	311	ASN
1	I	374	ASN
1	I	377	ASN
1	I	443	GLN
1	I	469	GLN
1	I	567	ASN
2	J	56	ASN
2	J	59	GLN
2	J	75	ASN
2	J	99	ASN
2	J	152	ASN
2	J	228	ASN
2	J	311	GLN
2	J	350	ASN
2	J	400	GLN
2	J	461	ASN
2	J	481	GLN
1	K	20	GLN
1	K	43	ASN
1	K	67	GLN

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Mol	Chain	Res	Type
1	K	100	HIS
1	K	105	ASN
1	K	113	HIS
1	K	150	ASN
1	K	163	HIS
1	K	187	ASN
1	K	188	HIS
1	K	211	HIS
1	K	235	HIS
1	K	311	ASN
1	K	320	ASN
1	K	374	ASN
1	K	377	ASN
1	K	443	GLN
1	K	469	GLN
1	K	567	ASN
2	L	56	ASN
2	L	59	GLN
2	L	75	ASN
2	L	99	ASN
2	L	152	ASN
2	L	311	GLN
2	L	350	ASN
2	L	400	GLN
2	L	481	GLN
3	M	270	ASN
3	M	300	GLN
3	M	313	HIS
3	M	338	ASN
3	M	391	GLN
3	M	415	ASN
3	N	240	GLN
3	N	270	ASN
3	N	300	GLN
3	N	313	HIS
3	N	415	ASN
3	O	270	ASN
3	O	300	GLN
3	O	313	HIS
3	O	391	GLN
3	O	415	ASN
3	P	270	ASN

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Mol	Chain	Res	Type
3	P	300	GLN
3	P	313	HIS
3	P	391	GLN
3	P	415	ASN
4	Q	11	GLN
4	Q	76	ASN
4	Q	85	HIS
4	Q	142	GLN
3	R	240	GLN
3	R	270	ASN
3	R	313	HIS
3	R	415	ASN
4	S	11	GLN
4	S	76	ASN
4	S	85	HIS
4	S	142	GLN
4	T	11	GLN
4	T	76	ASN
4	T	85	HIS
4	T	142	GLN
4	U	11	GLN
4	U	76	ASN
4	U	142	GLN
3	V	270	ASN
3	V	313	HIS
3	V	415	ASN
4	W	11	GLN
4	W	76	ASN
4	W	142	GLN
4	X	11	GLN
4	X	76	ASN
4	X	142	GLN

5.3.3 RNA

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates

There are no oligosaccharides in this entry.

5.6 Ligand geometry

There are no ligands in this entry.

5.7 Other polymers

There are no such residues in this entry.

5.8 Polymer linkage issues

There are no chain breaks in this entry.

6 Fit of model and data

6.1 Protein, DNA and RNA chains

EDS was not executed - this section is therefore empty.

6.2 Non-standard residues in protein, DNA, RNA chains

EDS was not executed - this section is therefore empty.

6.3 Carbohydrates

EDS was not executed - this section is therefore empty.

6.4 Ligands

EDS was not executed - this section is therefore empty.

6.5 Other polymers

EDS was not executed - this section is therefore empty.