



Full wwPDB EM Validation Report ⓘ

Mar 26, 2026 – 12:45 AM UTC

PDB ID : 3LOS / pdb_00003los
EMDB ID : EMD-5137
Title : Atomic Model of Mm-cpn in the Closed State
Authors : Zhang, J.; Baker, M.L.; Schroeder, G.; Douglas, N.R.; Reissmann, S.; Jakana, J.; Dougherty, M.; Fu, C.J.; Levitt, M.; Ludtke, S.J.; Frydman, J.; Chiu, W.
Deposited on : 2010-02-04
Resolution : 4.30 Å(reported)

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

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

A user guide is available at

<https://www.wwpdb.org/validation/2017/EMValidationReportHelp>
with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

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

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

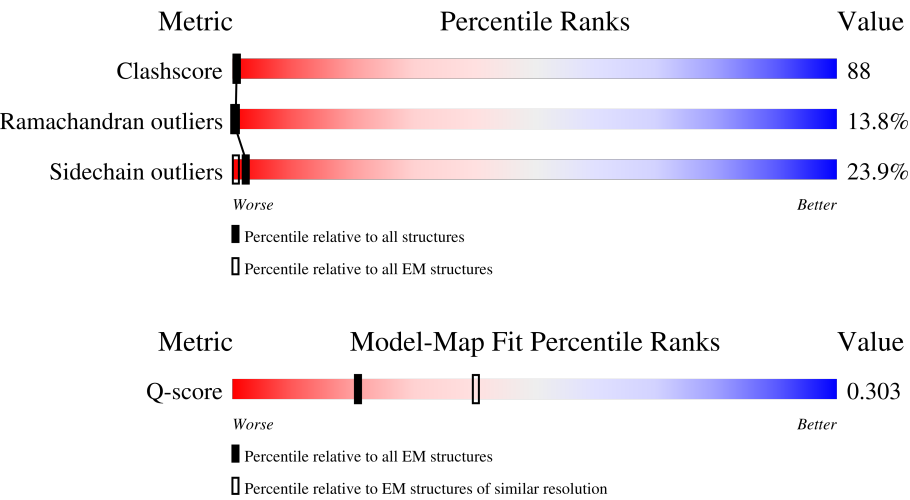
EMDB validation analysis : 0.0.1.dev132
MolProbity : 4-5-2 with Phenix2.0
Percentile statistics : 20250101.v01 (using entries in the PDB archive January 1st 2025)
EM percentile statistics : 202505.v01 (Using data in the EMDB archive up until May 2025)
MapQ : 1.9.13
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.49

1 Overall quality at a glance i

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

The reported resolution of this entry is 4.30 Å.

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



Metric	Whole archive (#Entries)	EM structures (#Entries)	Similar EM resolution (#Entries, resolution range(Å))
Clashscore	229148	23984	-
Ramachandran outliers	224038	23583	-
Sidechain outliers	223484	23102	-
Q-score	-	25397	4585 (3.80 - 4.80)

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

Mol	Chain	Length	Quality of chain
1	A	543	53% 19% 44% 27% 8%
1	B	543	52% 20% 43% 28% 7%
1	C	543	54% 19% 44% 28% 7%
1	D	543	53% 19% 43% 28% 7%

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Mol	Chain	Length	Quality of chain
1	E	543	
1	F	543	
1	G	543	
1	H	543	
1	I	543	
1	J	543	
1	K	543	
1	L	543	
1	M	543	
1	N	543	
1	O	543	
1	P	543	

2 Entry composition [i](#)

There is only 1 type of molecule in this entry. The entry contains 63712 atoms, of which 0 are hydrogens and 0 are deuteriums.

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

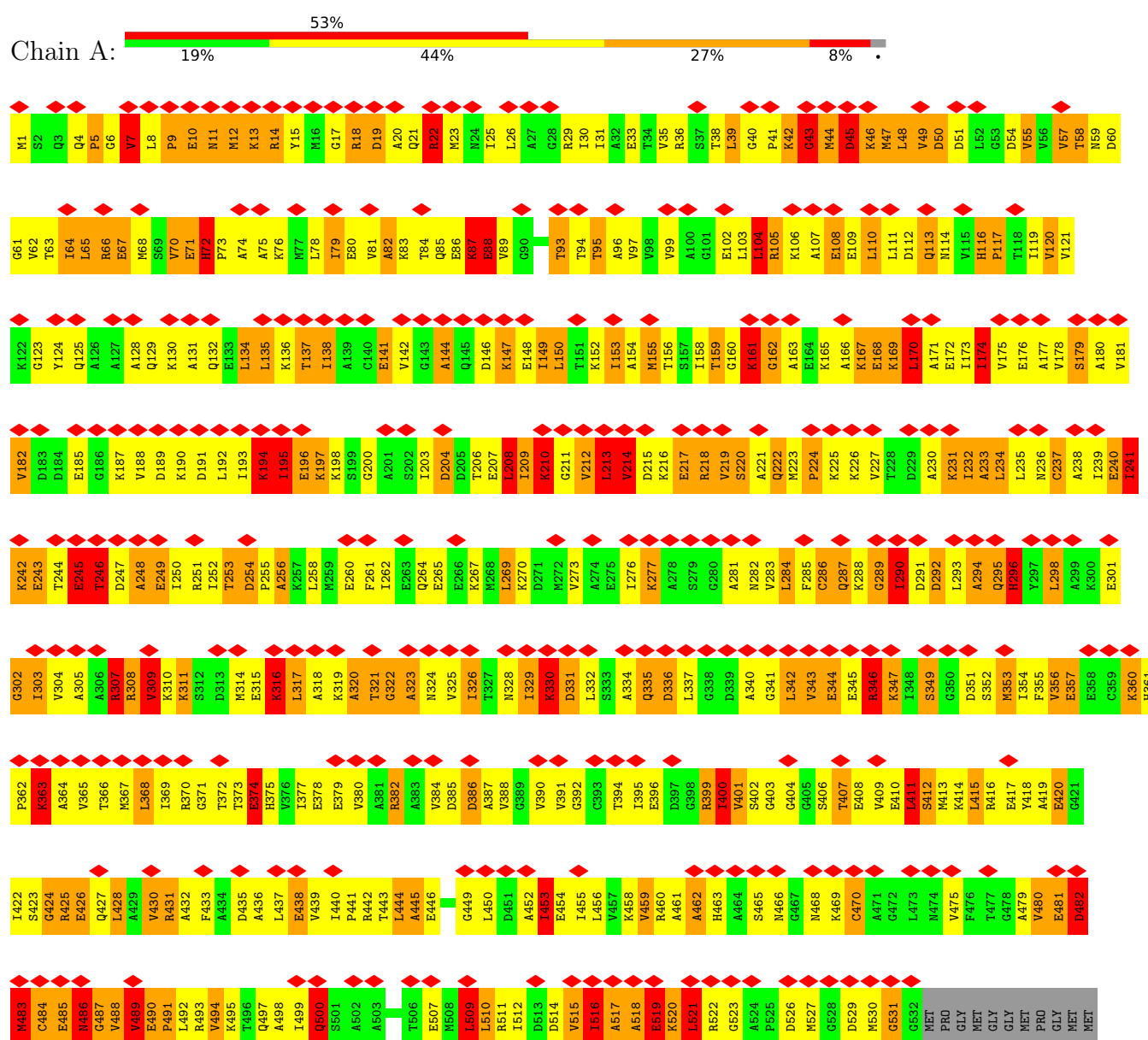
- Molecule 1 is a protein called Chaperonin.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	A	532	Total	C	N	O	S	0	0
			3982	2468	689	797	28		
1	B	532	Total	C	N	O	S	0	0
			3982	2468	689	797	28		
1	C	532	Total	C	N	O	S	0	0
			3982	2468	689	797	28		
1	D	532	Total	C	N	O	S	0	0
			3982	2468	689	797	28		
1	E	532	Total	C	N	O	S	0	0
			3982	2468	689	797	28		
1	F	532	Total	C	N	O	S	0	0
			3982	2468	689	797	28		
1	G	532	Total	C	N	O	S	0	0
			3982	2468	689	797	28		
1	H	532	Total	C	N	O	S	0	0
			3982	2468	689	797	28		
1	I	532	Total	C	N	O	S	0	0
			3982	2468	689	797	28		
1	J	532	Total	C	N	O	S	0	0
			3982	2468	689	797	28		
1	K	532	Total	C	N	O	S	0	0
			3982	2468	689	797	28		
1	L	532	Total	C	N	O	S	0	0
			3982	2468	689	797	28		
1	M	532	Total	C	N	O	S	0	0
			3982	2468	689	797	28		
1	N	532	Total	C	N	O	S	0	0
			3982	2468	689	797	28		
1	O	532	Total	C	N	O	S	0	0
			3982	2468	689	797	28		
1	P	532	Total	C	N	O	S	0	0
			3982	2468	689	797	28		

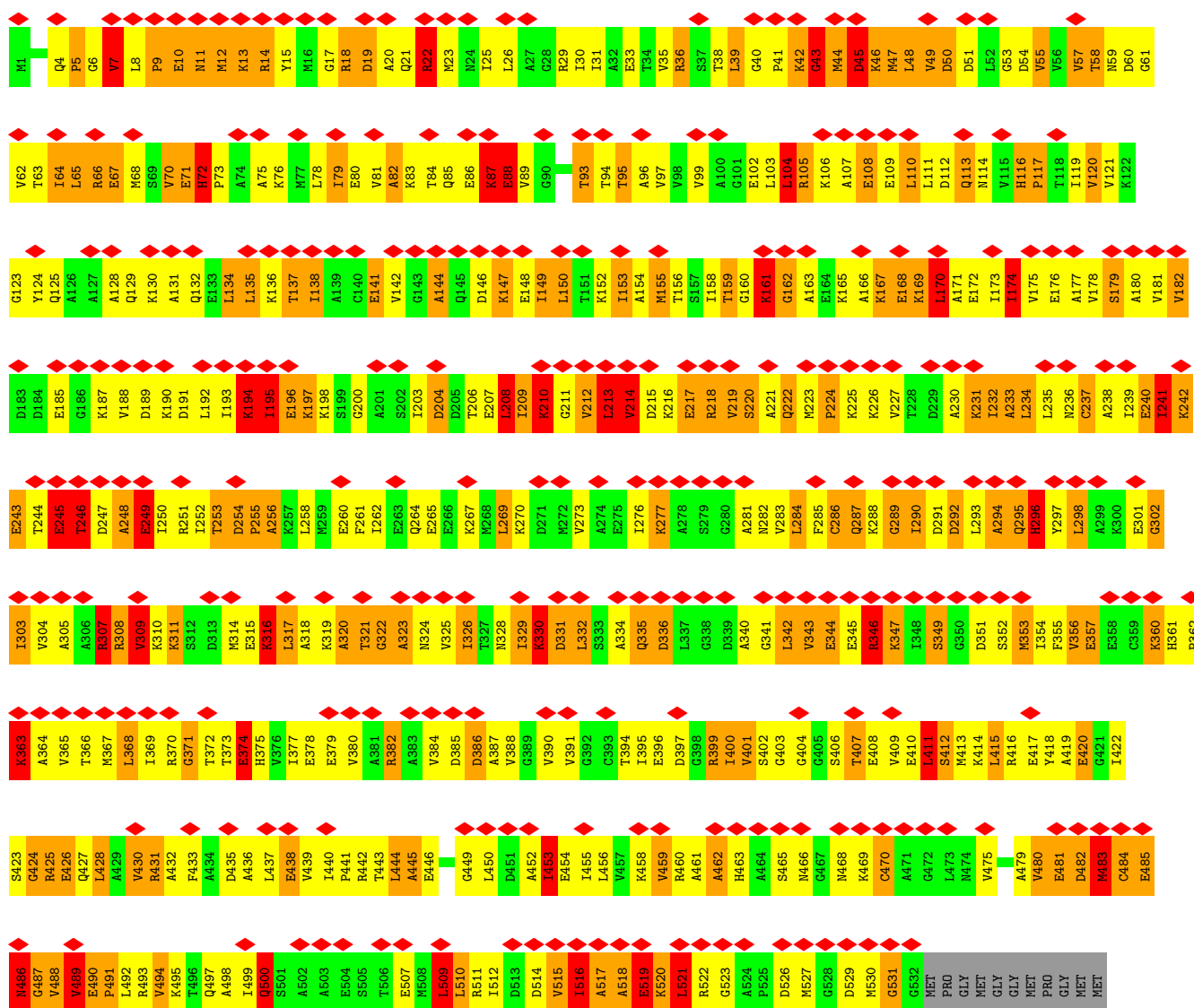
3 Residue-property plots

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

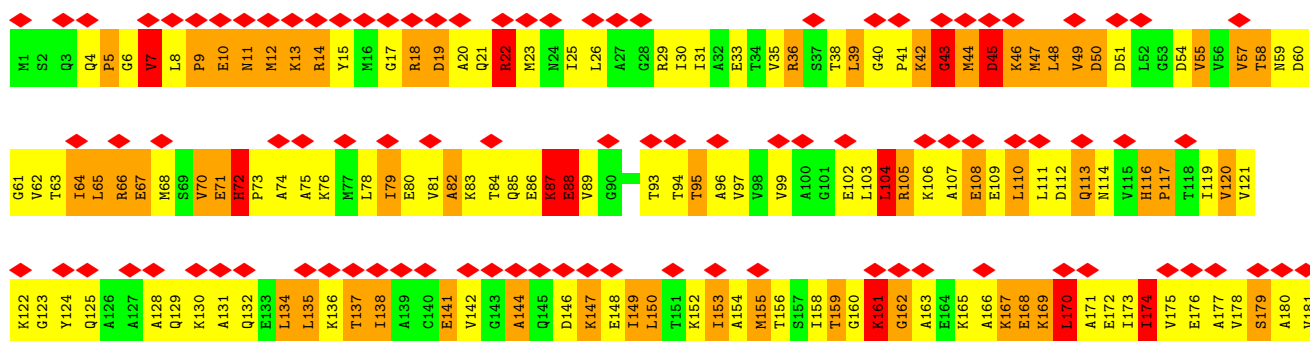
• Molecule 1: Chaperonin

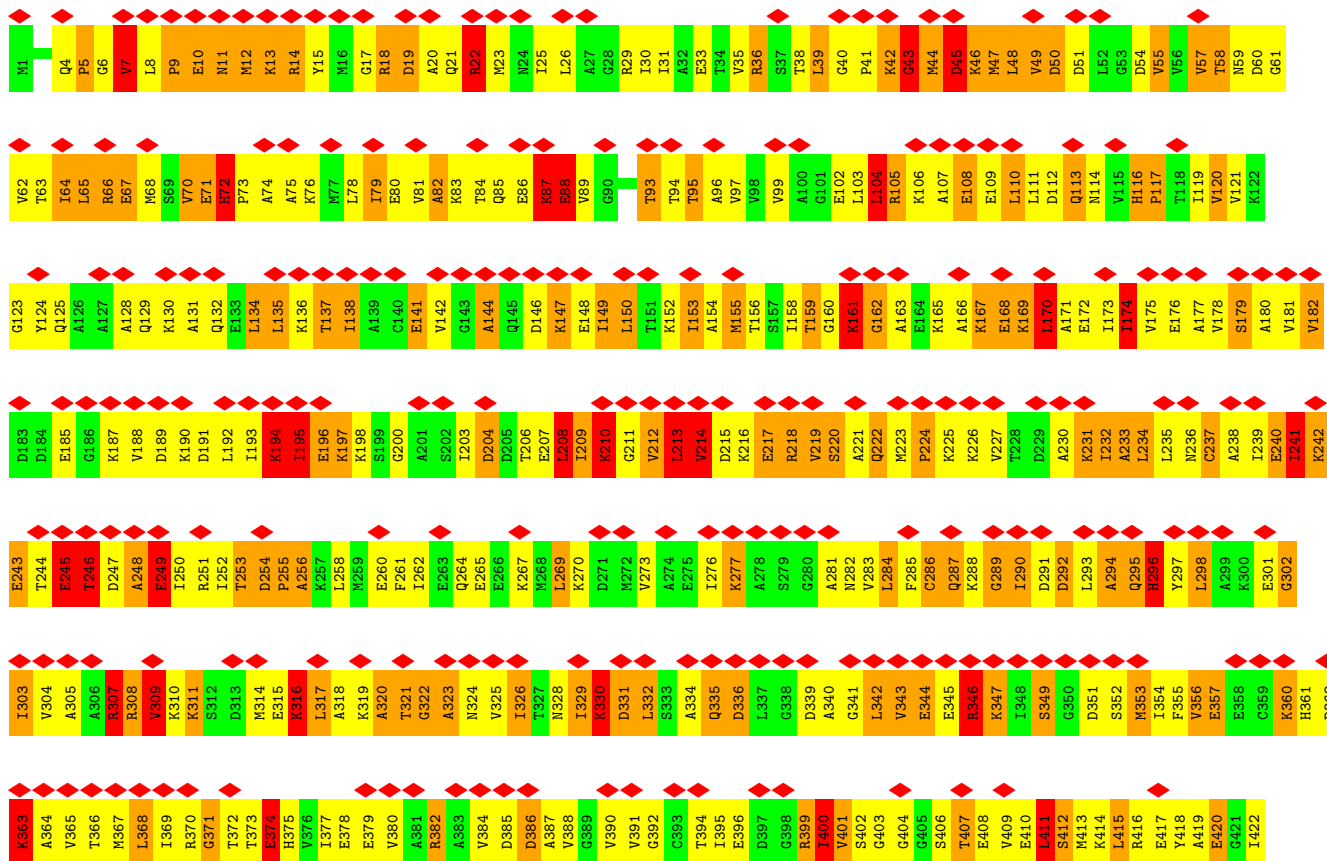


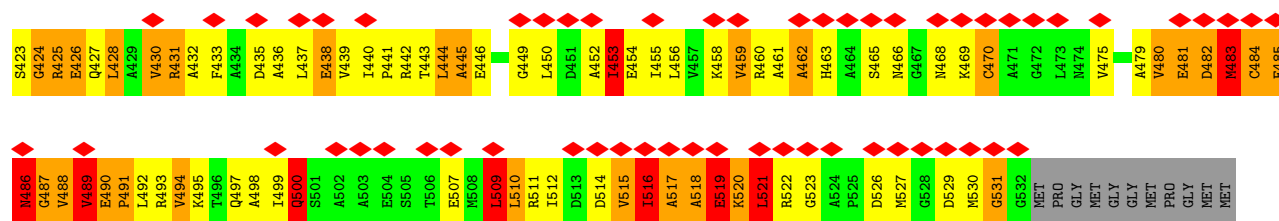
• Molecule 1: Chaperonin



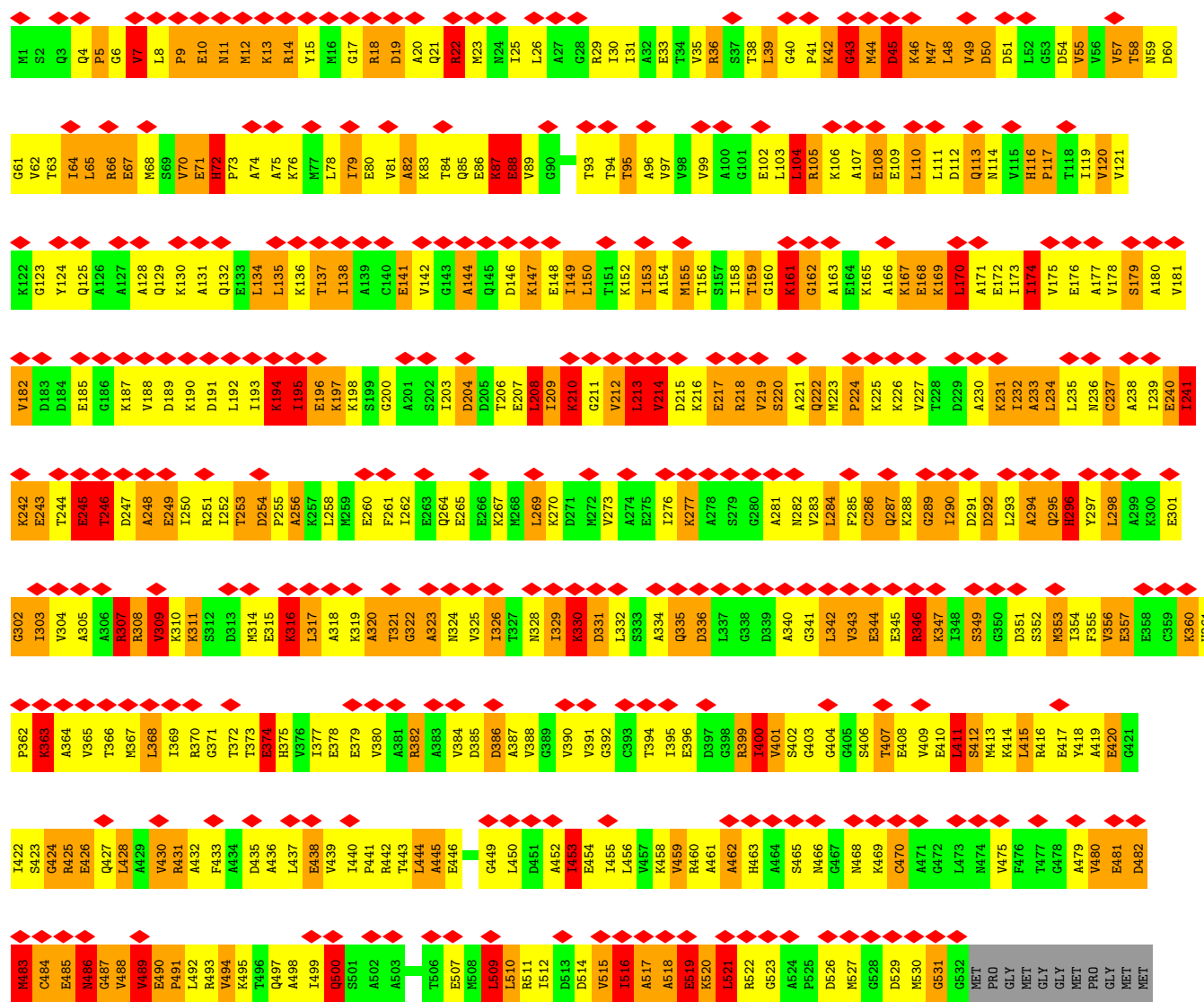
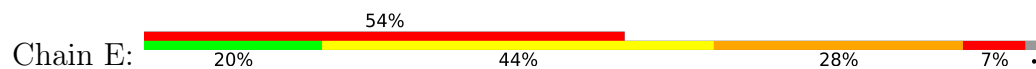
• Molecule 1: Chaperonin



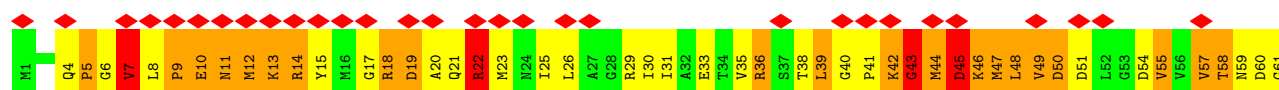
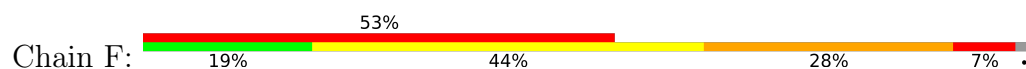


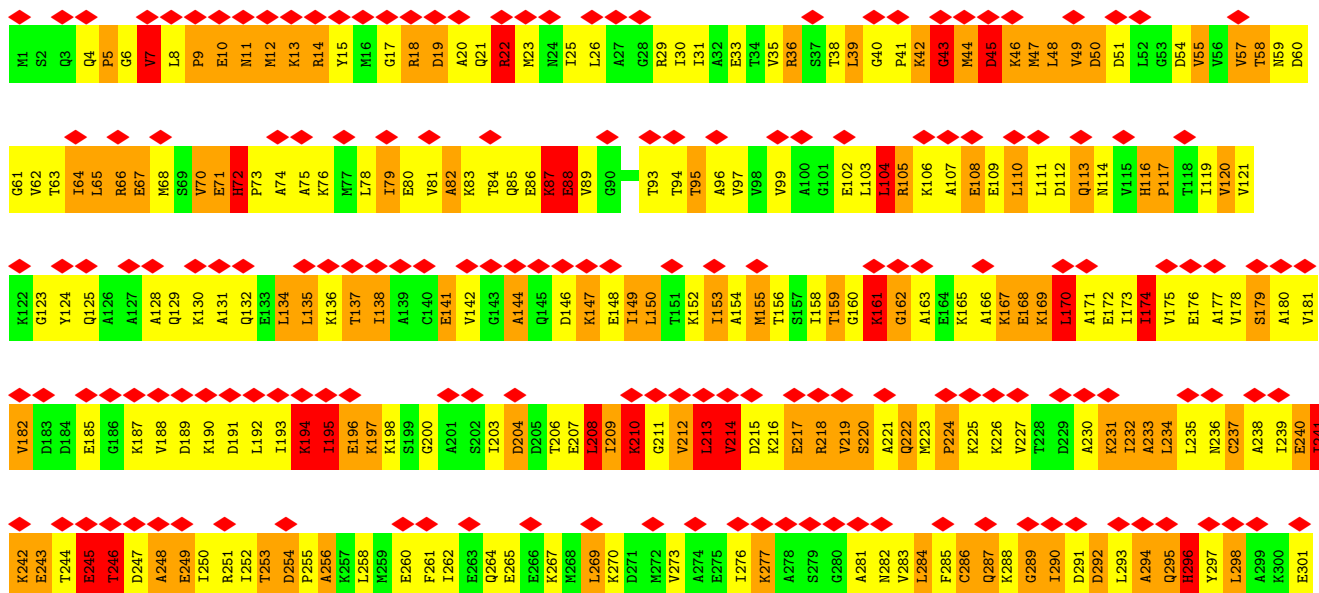


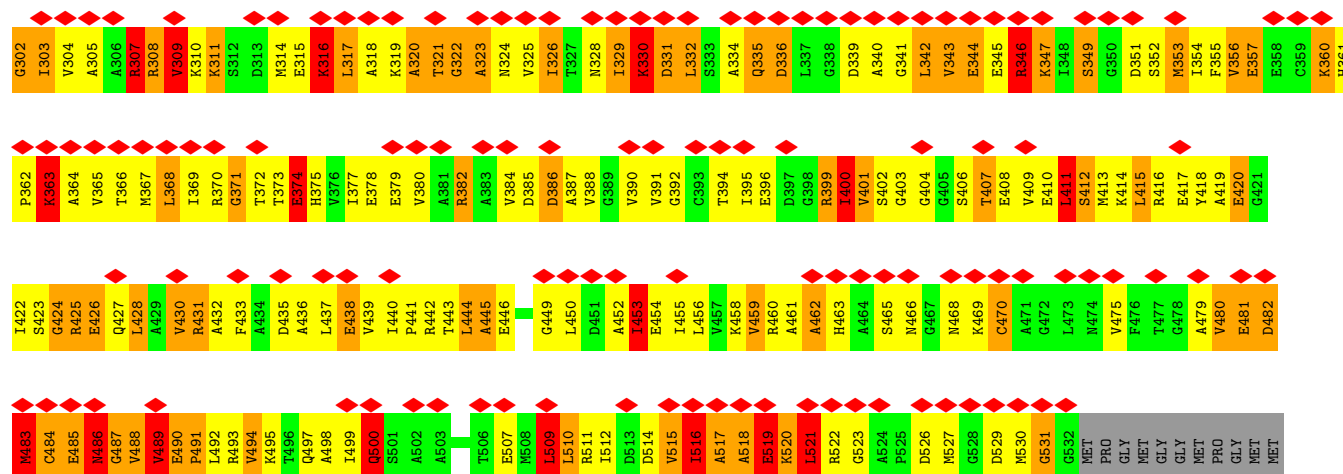
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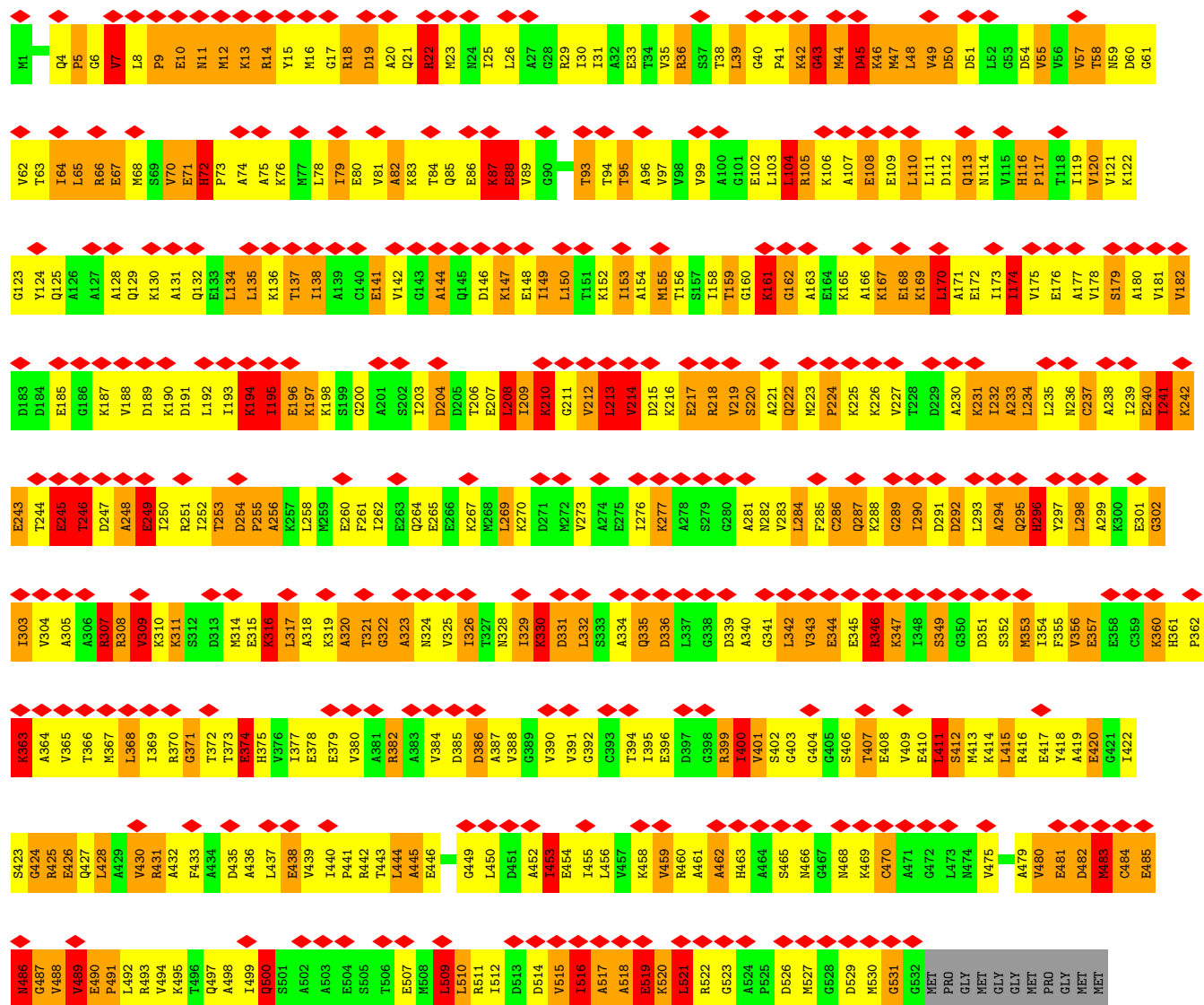
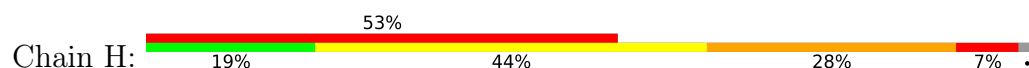
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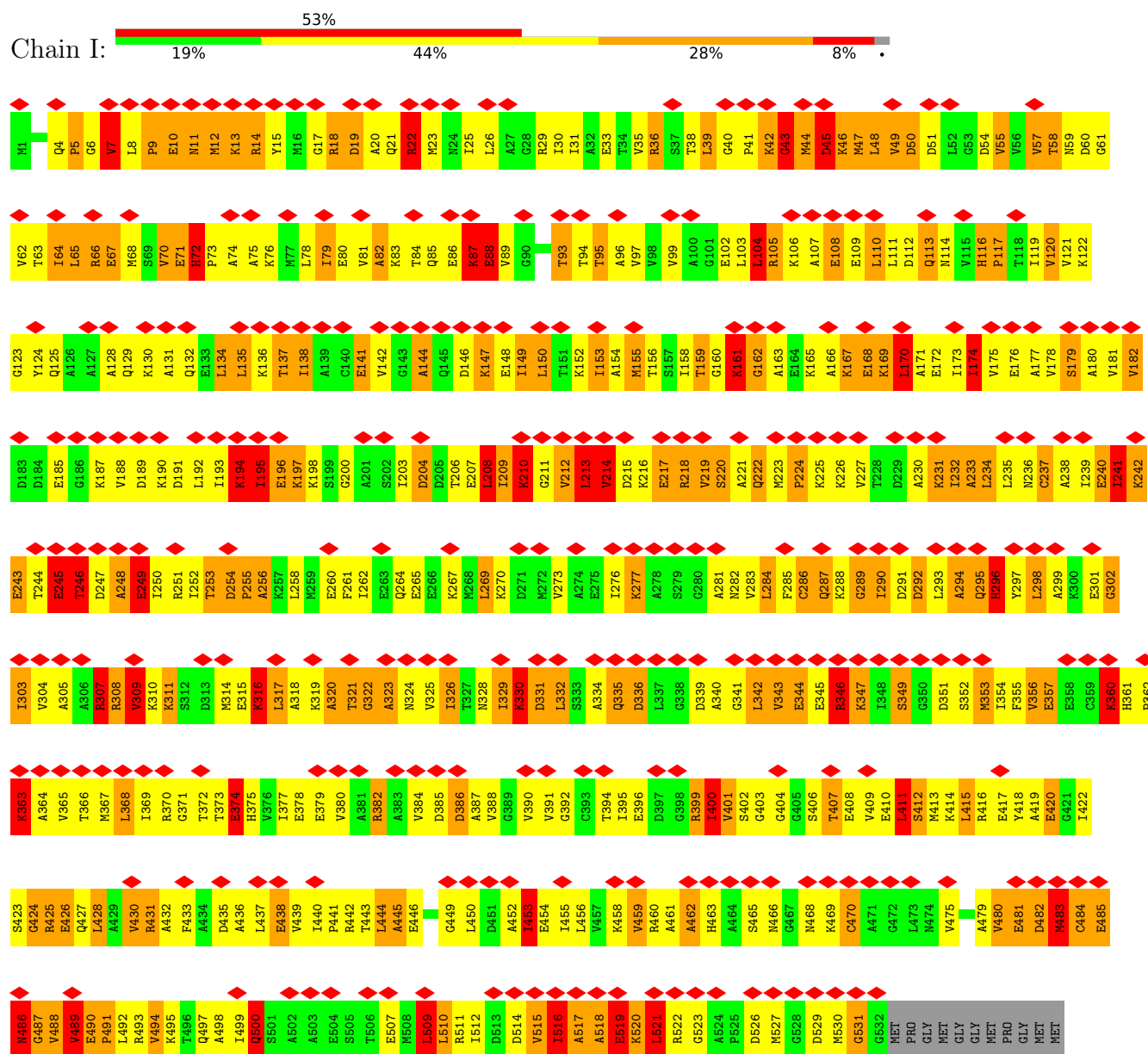




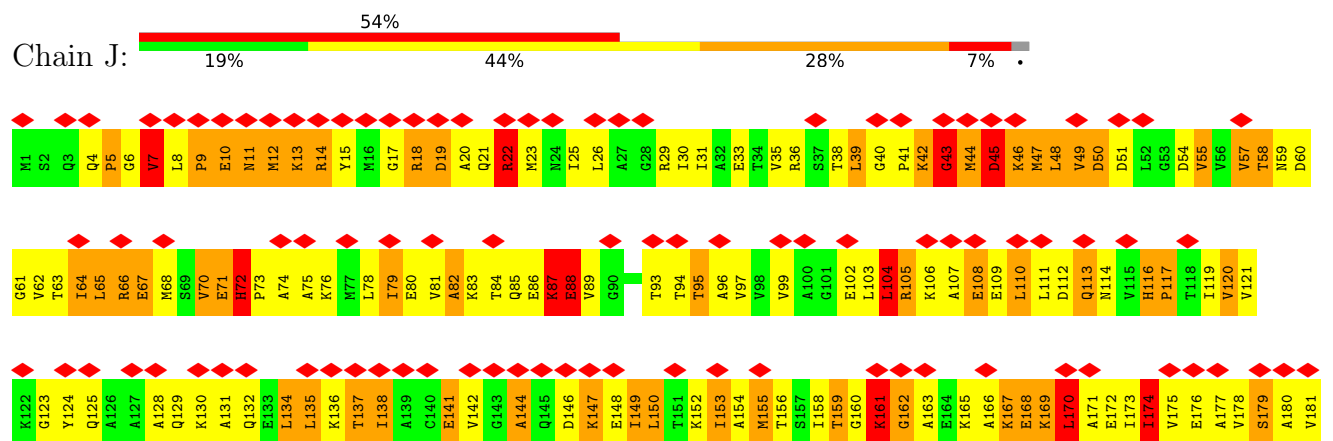
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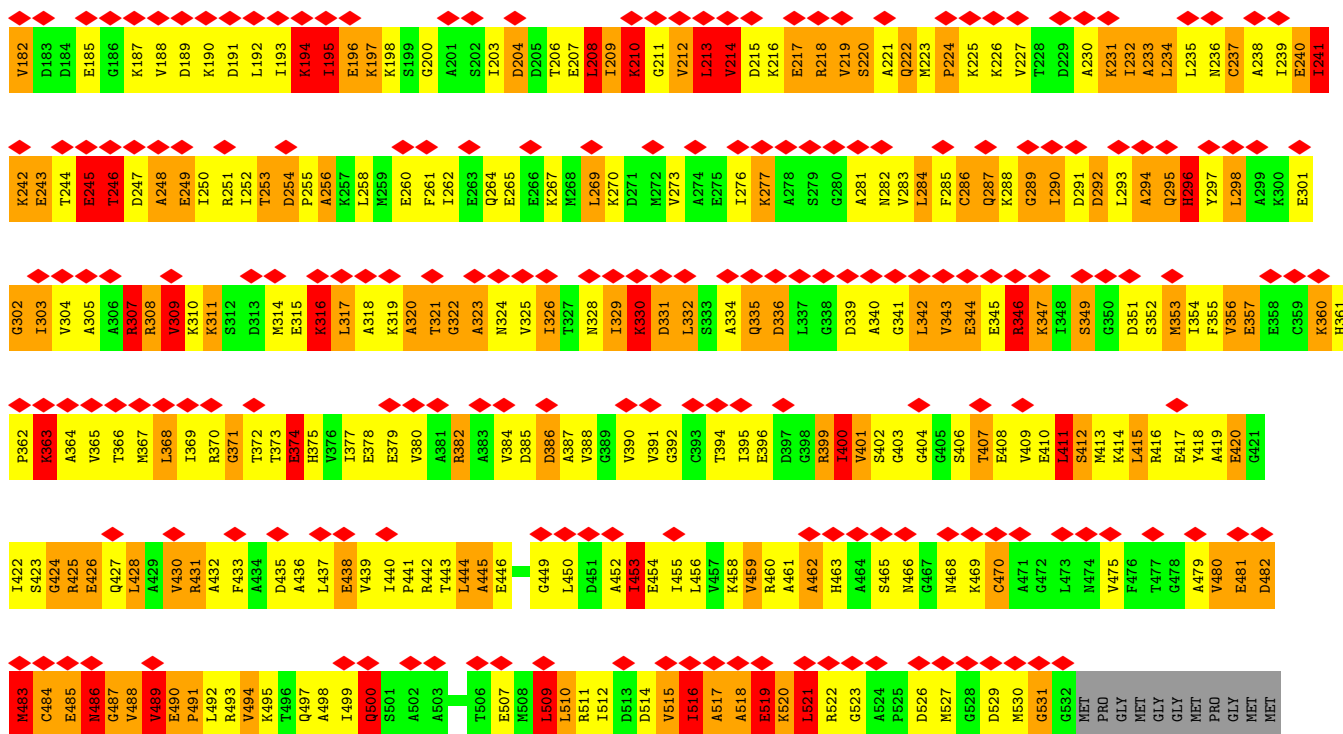


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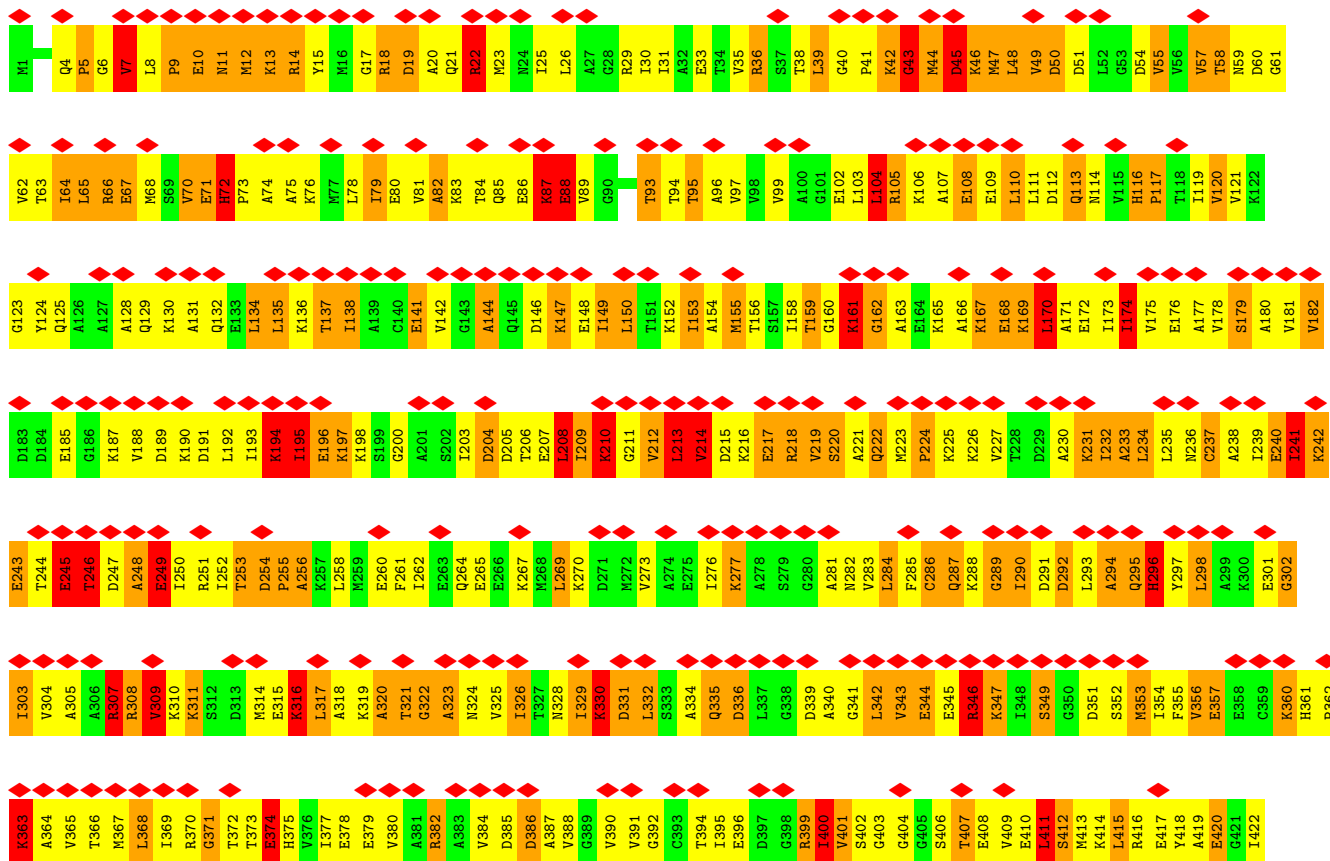
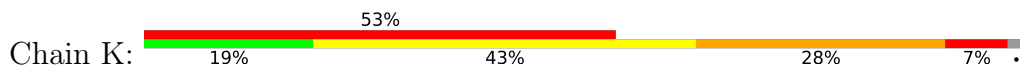


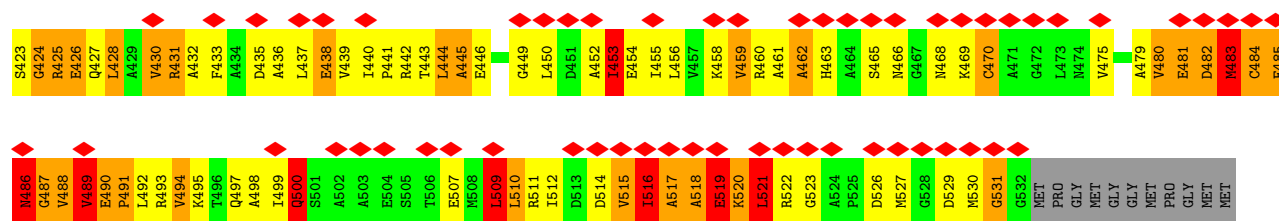
• Molecule 1: Chaperonin



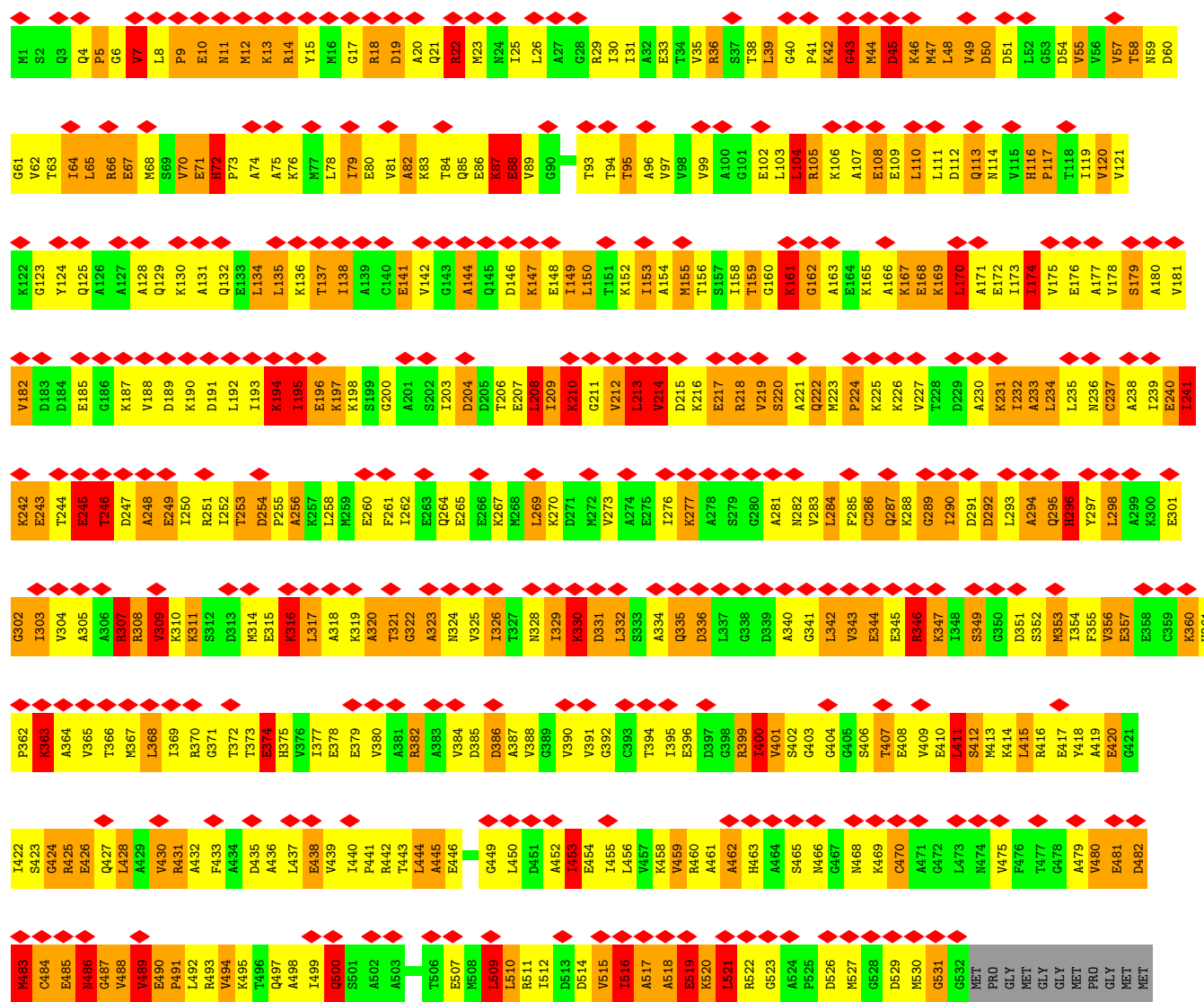
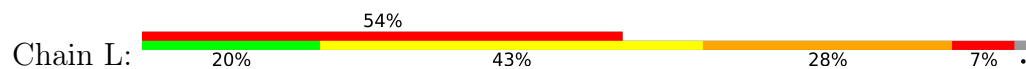


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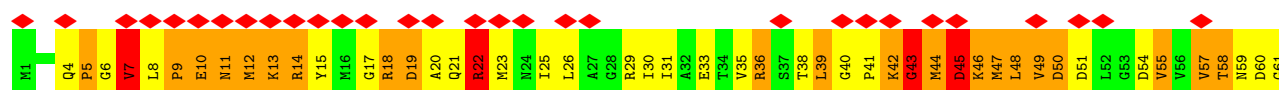
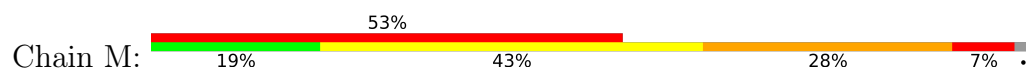


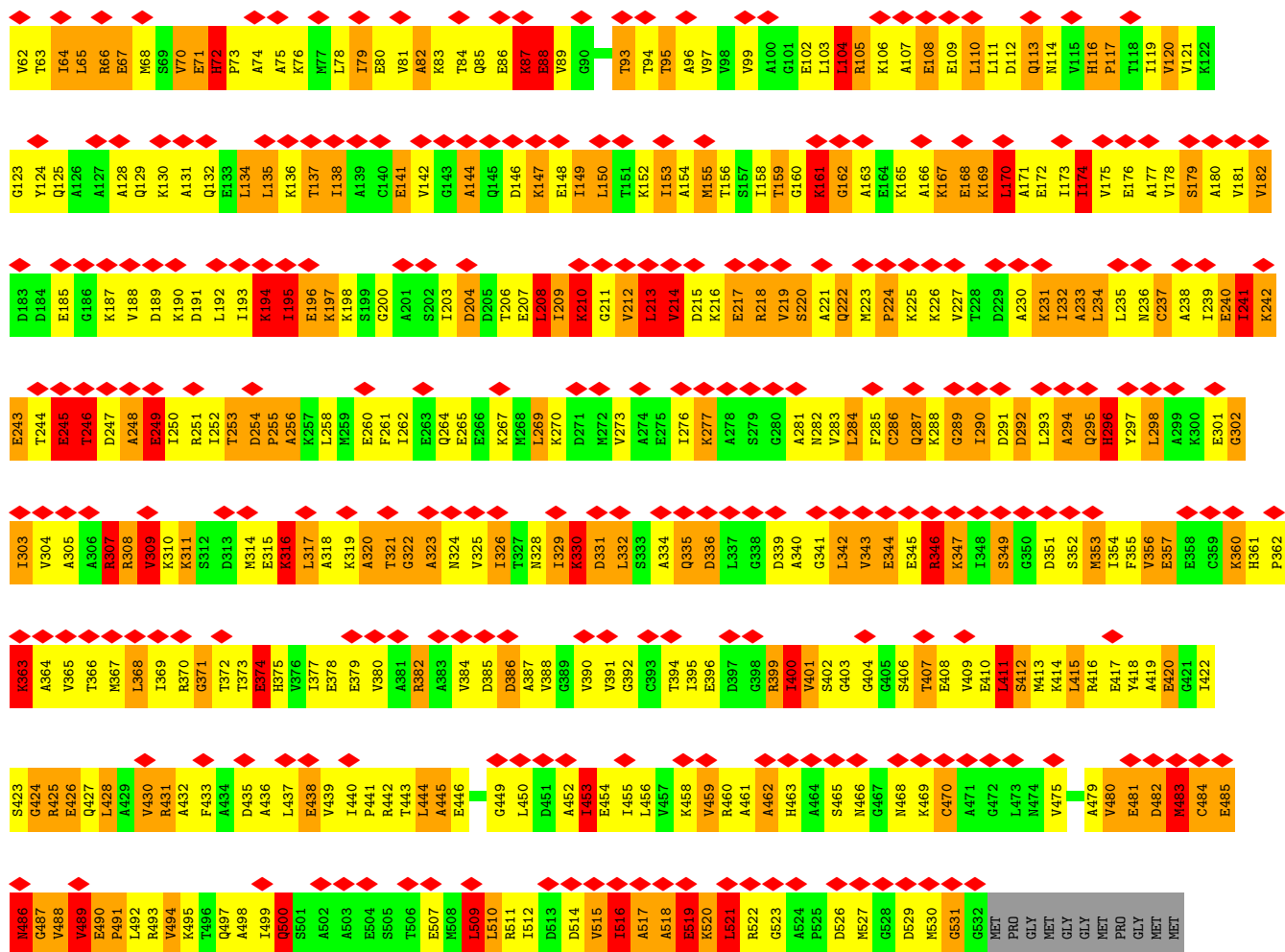


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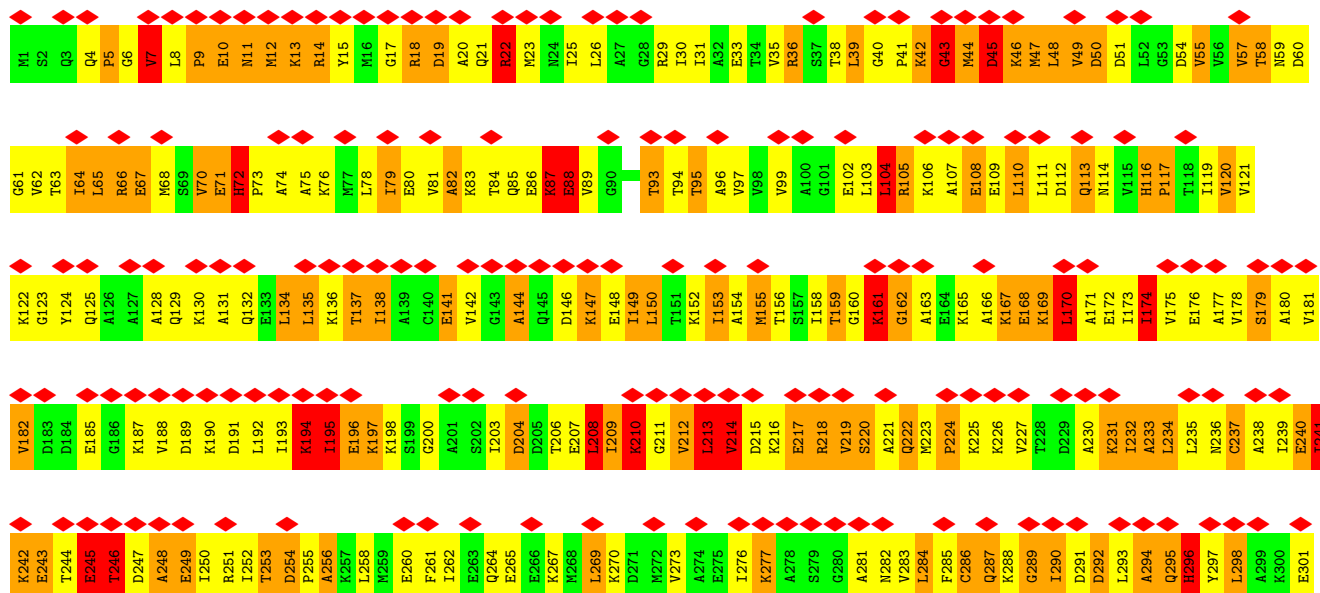
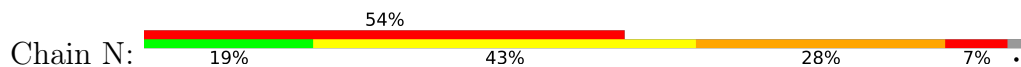


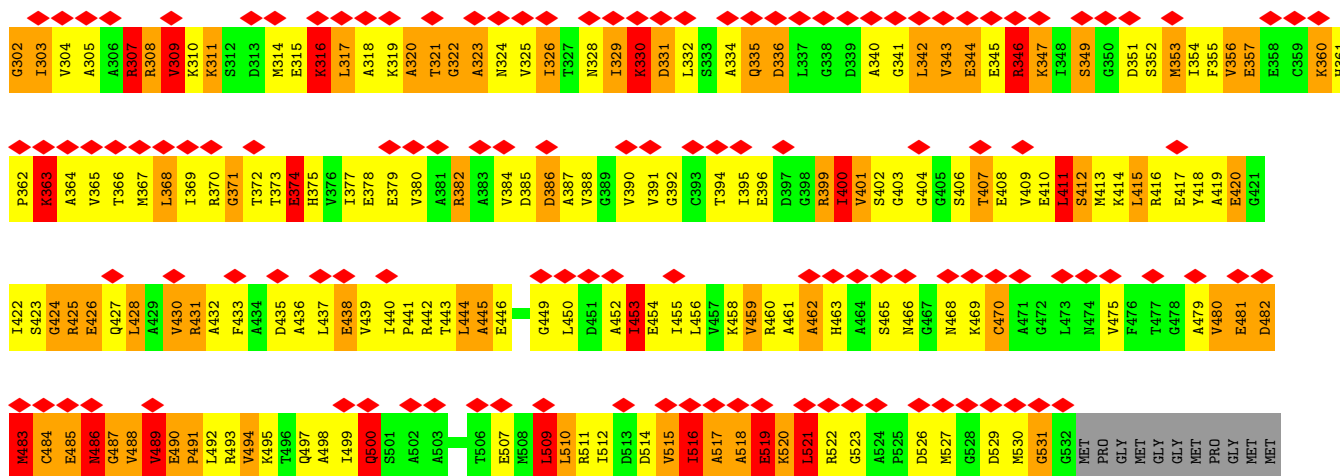
• Molecule 1: Chaperonin



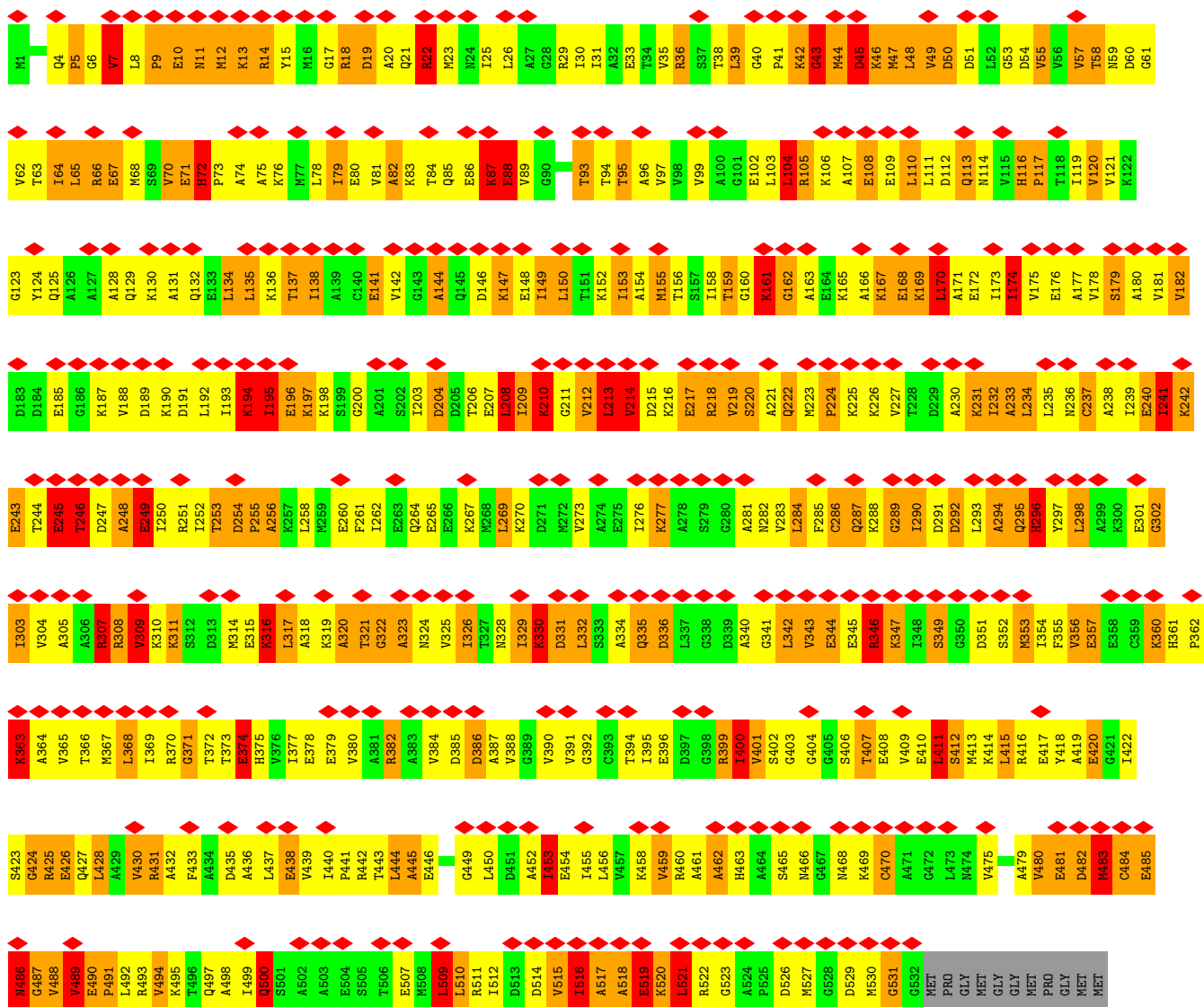
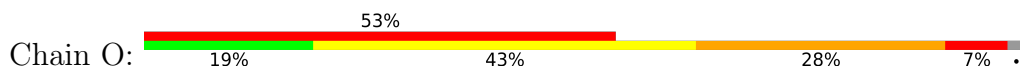


• Molecule 1: Chaperonin

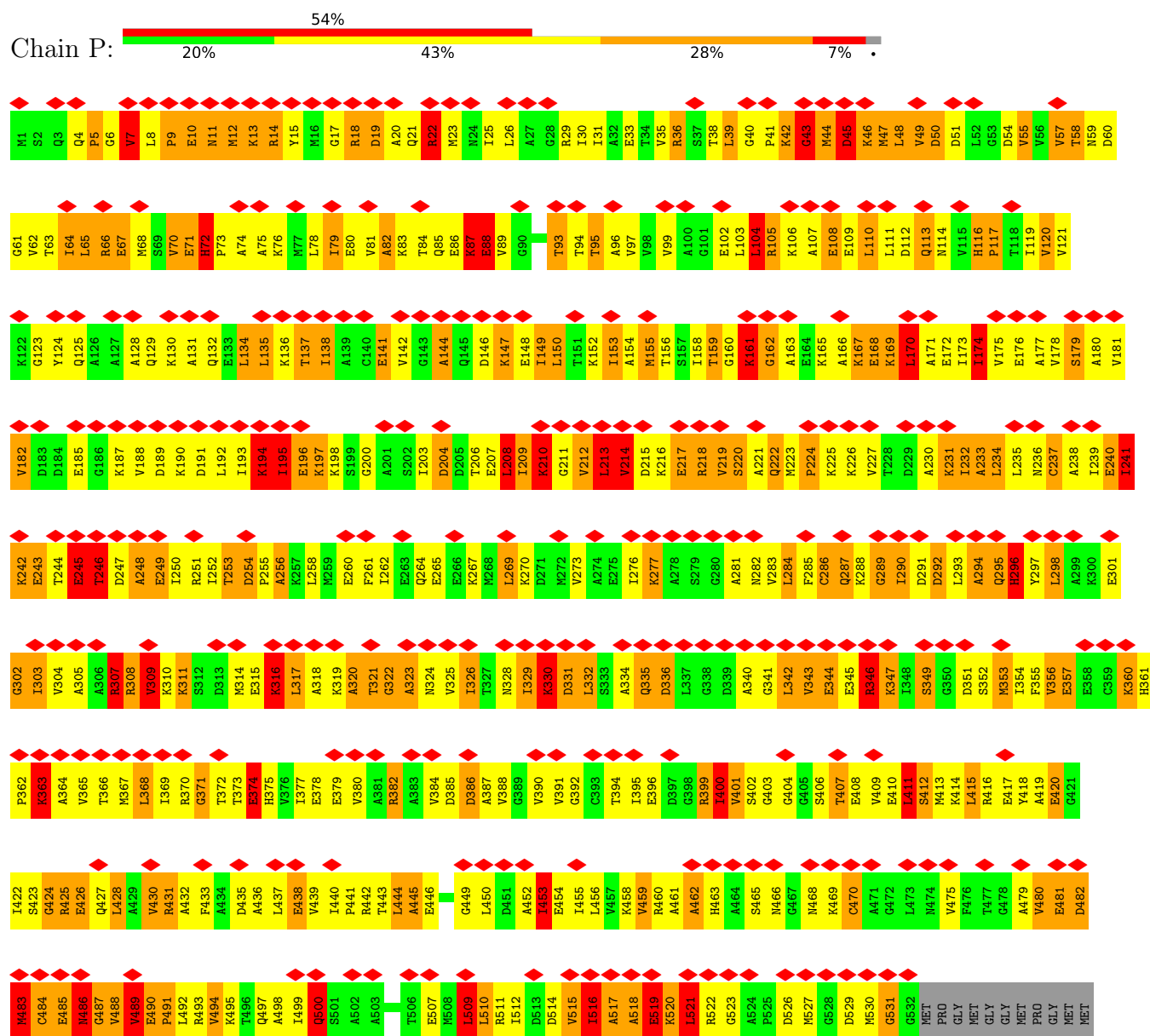




• Molecule 1: Chaperonin



• Molecule 1: Chaperonin



4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, D8	Depositor
Number of particles used	Not provided	
Resolution determination method	FSC 0.5 CUT-OFF	Depositor
CTF correction method	Each micrograph	Depositor
Microscope	JEOL 3200FSC	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/\text{\AA}^2$)	20	Depositor
Minimum defocus (nm)	1000	Depositor
Maximum defocus (nm)	3000	Depositor
Magnification	112000	Depositor
Image detector	GATAN ULTRASCAN 4000 (4k x 4k)	Depositor
Maximum map value	1.445	Depositor
Minimum map value	-0.879	Depositor
Average map value	0.014	Depositor
Map value standard deviation	0.098	Depositor
Recommended contour level	0.38	Depositor
Map size ($\text{\AA}$)	255.36, 255.36, 255.36	wwPDB
Map dimensions	192, 192, 192	wwPDB
Map angles ($^\circ$)	90, 90, 90	wwPDB
Pixel spacing ($\text{\AA}$)	1.33, 1.33, 1.33	Depositor

5 Model quality ⓘ

5.1 Standard geometry ⓘ

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	$\# Z > 5$	RMSZ	$\# Z > 5$
1	A	0.47	0/4007	1.52	100/5390 (1.9%)
1	B	0.47	0/4007	1.52	101/5390 (1.9%)
1	C	0.47	0/4007	1.52	100/5390 (1.9%)
1	D	0.47	0/4007	1.52	101/5390 (1.9%)
1	E	0.47	0/4007	1.52	100/5390 (1.9%)
1	F	0.47	0/4007	1.52	101/5390 (1.9%)
1	G	0.47	0/4007	1.52	100/5390 (1.9%)
1	H	0.47	0/4007	1.52	100/5390 (1.9%)
1	I	0.47	0/4007	1.52	101/5390 (1.9%)
1	J	0.47	0/4007	1.52	100/5390 (1.9%)
1	K	0.47	0/4007	1.52	101/5390 (1.9%)
1	L	0.47	0/4007	1.52	100/5390 (1.9%)
1	M	0.47	0/4007	1.52	101/5390 (1.9%)
1	N	0.47	0/4007	1.52	100/5390 (1.9%)
1	O	0.47	0/4007	1.52	101/5390 (1.9%)
1	P	0.47	0/4007	1.52	100/5390 (1.9%)
All	All	0.47	0/64112	1.52	1607/86240 (1.9%)

There are no bond length outliers.

All (1607) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	308	ARG	N-CA-C	13.27	129.83	108.99
1	E	308	ARG	N-CA-C	13.27	129.83	108.99
1	G	308	ARG	N-CA-C	13.27	129.83	108.99
1	J	308	ARG	N-CA-C	13.27	129.83	108.99
1	L	308	ARG	N-CA-C	13.27	129.83	108.99
1	N	308	ARG	N-CA-C	13.27	129.83	108.99
1	P	308	ARG	N-CA-C	13.27	129.83	108.99
1	B	308	ARG	N-CA-C	13.24	129.78	108.99
1	D	308	ARG	N-CA-C	13.24	129.78	108.99
1	F	308	ARG	N-CA-C	13.24	129.78	108.99
1	H	308	ARG	N-CA-C	13.24	129.78	108.99

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	I	308	ARG	N-CA-C	13.24	129.78	108.99
1	K	308	ARG	N-CA-C	13.24	129.78	108.99
1	M	308	ARG	N-CA-C	13.24	129.78	108.99
1	O	308	ARG	N-CA-C	13.24	129.78	108.99
1	A	308	ARG	N-CA-C	13.24	129.77	108.99
1	H	13	LYS	N-CA-C	12.95	127.08	110.24
1	O	13	LYS	N-CA-C	12.95	127.08	110.24
1	B	13	LYS	N-CA-C	12.94	127.07	110.24
1	C	13	LYS	N-CA-C	12.94	127.06	110.24
1	E	13	LYS	N-CA-C	12.94	127.06	110.24
1	G	13	LYS	N-CA-C	12.94	127.06	110.24
1	J	13	LYS	N-CA-C	12.94	127.06	110.24
1	L	13	LYS	N-CA-C	12.94	127.06	110.24
1	P	13	LYS	N-CA-C	12.94	127.06	110.24
1	D	13	LYS	N-CA-C	12.93	127.05	110.24
1	F	13	LYS	N-CA-C	12.93	127.05	110.24
1	I	13	LYS	N-CA-C	12.93	127.05	110.24
1	K	13	LYS	N-CA-C	12.93	127.05	110.24
1	M	13	LYS	N-CA-C	12.93	127.05	110.24
1	N	13	LYS	N-CA-C	12.92	127.04	110.24
1	A	13	LYS	N-CA-C	12.90	127.02	110.24
1	C	484	CYS	N-CA-C	-12.46	96.81	112.88
1	E	484	CYS	N-CA-C	-12.46	96.81	112.88
1	G	484	CYS	N-CA-C	-12.46	96.81	112.88
1	J	484	CYS	N-CA-C	-12.46	96.81	112.88
1	L	484	CYS	N-CA-C	-12.46	96.81	112.88
1	N	484	CYS	N-CA-C	-12.46	96.81	112.88
1	P	484	CYS	N-CA-C	-12.46	96.81	112.88
1	A	484	CYS	N-CA-C	-12.41	96.88	112.88
1	D	347	LYS	N-CA-C	11.74	127.19	112.86
1	F	347	LYS	N-CA-C	11.74	127.19	112.86
1	H	347	LYS	N-CA-C	11.74	127.19	112.86
1	I	347	LYS	N-CA-C	11.74	127.19	112.86
1	K	347	LYS	N-CA-C	11.74	127.19	112.86
1	M	347	LYS	N-CA-C	11.74	127.19	112.86
1	O	347	LYS	N-CA-C	11.74	127.19	112.86
1	C	347	LYS	N-CA-C	11.74	127.18	112.86
1	E	347	LYS	N-CA-C	11.74	127.18	112.86
1	G	347	LYS	N-CA-C	11.74	127.18	112.86
1	J	347	LYS	N-CA-C	11.74	127.18	112.86
1	L	347	LYS	N-CA-C	11.74	127.18	112.86
1	N	347	LYS	N-CA-C	11.74	127.18	112.86

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	P	347	LYS	N-CA-C	11.74	127.18	112.86
1	A	347	LYS	N-CA-C	11.74	127.18	112.86
1	B	347	LYS	N-CA-C	11.72	127.16	112.86
1	A	309	VAL	N-CA-C	11.47	133.19	109.34
1	C	309	VAL	N-CA-C	11.45	133.16	109.34
1	E	309	VAL	N-CA-C	11.45	133.16	109.34
1	G	309	VAL	N-CA-C	11.45	133.16	109.34
1	J	309	VAL	N-CA-C	11.45	133.16	109.34
1	L	309	VAL	N-CA-C	11.45	133.16	109.34
1	N	309	VAL	N-CA-C	11.45	133.16	109.34
1	P	309	VAL	N-CA-C	11.45	133.16	109.34
1	D	484	CYS	N-CA-C	-11.45	96.80	112.94
1	F	484	CYS	N-CA-C	-11.45	96.80	112.94
1	H	484	CYS	N-CA-C	-11.45	96.80	112.94
1	I	484	CYS	N-CA-C	-11.45	96.80	112.94
1	K	484	CYS	N-CA-C	-11.45	96.80	112.94
1	M	484	CYS	N-CA-C	-11.45	96.80	112.94
1	O	484	CYS	N-CA-C	-11.45	96.80	112.94
1	D	309	VAL	N-CA-C	11.44	133.13	109.34
1	F	309	VAL	N-CA-C	11.44	133.13	109.34
1	H	309	VAL	N-CA-C	11.44	133.13	109.34
1	I	309	VAL	N-CA-C	11.44	133.13	109.34
1	K	309	VAL	N-CA-C	11.44	133.13	109.34
1	M	309	VAL	N-CA-C	11.44	133.13	109.34
1	O	309	VAL	N-CA-C	11.44	133.13	109.34
1	B	309	VAL	N-CA-C	11.43	133.12	109.34
1	B	484	CYS	N-CA-C	-11.43	96.82	112.94
1	D	42	LYS	N-CA-C	-11.36	98.87	111.14
1	F	42	LYS	N-CA-C	-11.36	98.87	111.14
1	H	42	LYS	N-CA-C	-11.36	98.87	111.14
1	I	42	LYS	N-CA-C	-11.36	98.87	111.14
1	K	42	LYS	N-CA-C	-11.36	98.87	111.14
1	M	42	LYS	N-CA-C	-11.36	98.87	111.14
1	O	42	LYS	N-CA-C	-11.36	98.87	111.14
1	A	42	LYS	N-CA-C	-11.32	98.92	111.14
1	C	42	LYS	N-CA-C	-11.30	98.93	111.14
1	E	42	LYS	N-CA-C	-11.30	98.93	111.14
1	G	42	LYS	N-CA-C	-11.30	98.93	111.14
1	J	42	LYS	N-CA-C	-11.30	98.93	111.14
1	L	42	LYS	N-CA-C	-11.30	98.93	111.14
1	N	42	LYS	N-CA-C	-11.30	98.93	111.14
1	P	42	LYS	N-CA-C	-11.30	98.93	111.14

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	42	LYS	N-CA-C	-11.30	98.93	111.14
1	B	423	SER	N-CA-C	10.94	126.24	108.41
1	A	423	SER	N-CA-C	10.92	126.21	108.41
1	D	423	SER	N-CA-C	10.91	126.20	108.41
1	F	423	SER	N-CA-C	10.91	126.20	108.41
1	H	423	SER	N-CA-C	10.91	126.20	108.41
1	I	423	SER	N-CA-C	10.91	126.20	108.41
1	K	423	SER	N-CA-C	10.91	126.20	108.41
1	M	423	SER	N-CA-C	10.91	126.20	108.41
1	O	423	SER	N-CA-C	10.91	126.20	108.41
1	C	423	SER	N-CA-C	10.91	126.19	108.41
1	E	423	SER	N-CA-C	10.91	126.19	108.41
1	G	423	SER	N-CA-C	10.91	126.19	108.41
1	J	423	SER	N-CA-C	10.91	126.19	108.41
1	L	423	SER	N-CA-C	10.91	126.19	108.41
1	N	423	SER	N-CA-C	10.91	126.19	108.41
1	P	423	SER	N-CA-C	10.91	126.19	108.41
1	D	196	GLU	N-CA-C	10.78	122.46	108.34
1	F	196	GLU	N-CA-C	10.78	122.46	108.34
1	H	196	GLU	N-CA-C	10.78	122.46	108.34
1	I	196	GLU	N-CA-C	10.78	122.46	108.34
1	K	196	GLU	N-CA-C	10.78	122.46	108.34
1	M	196	GLU	N-CA-C	10.78	122.46	108.34
1	O	196	GLU	N-CA-C	10.78	122.46	108.34
1	B	196	GLU	N-CA-C	10.78	122.46	108.34
1	C	196	GLU	N-CA-C	10.78	122.45	108.34
1	E	196	GLU	N-CA-C	10.78	122.45	108.34
1	G	196	GLU	N-CA-C	10.78	122.45	108.34
1	J	196	GLU	N-CA-C	10.78	122.45	108.34
1	L	196	GLU	N-CA-C	10.78	122.45	108.34
1	N	196	GLU	N-CA-C	10.78	122.45	108.34
1	P	196	GLU	N-CA-C	10.78	122.45	108.34
1	A	196	GLU	N-CA-C	10.77	122.45	108.34
1	B	245	GLU	N-CA-C	-10.71	87.98	110.80
1	F	245	GLU	N-CA-C	-10.71	87.98	110.80
1	H	245	GLU	N-CA-C	-10.71	87.98	110.80
1	D	245	GLU	N-CA-C	-10.71	87.99	110.80
1	I	245	GLU	N-CA-C	-10.71	87.99	110.80
1	K	245	GLU	N-CA-C	-10.71	87.99	110.80
1	M	245	GLU	N-CA-C	-10.71	87.99	110.80
1	O	245	GLU	N-CA-C	-10.71	87.99	110.80
1	J	245	GLU	N-CA-C	-10.64	88.13	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	L	245	GLU	N-CA-C	-10.64	88.13	110.80
1	N	245	GLU	N-CA-C	-10.64	88.13	110.80
1	P	245	GLU	N-CA-C	-10.64	88.13	110.80
1	C	245	GLU	N-CA-C	-10.64	88.13	110.80
1	G	245	GLU	N-CA-C	-10.64	88.14	110.80
1	E	245	GLU	N-CA-C	-10.63	88.16	110.80
1	A	245	GLU	N-CA-C	-10.61	88.21	110.80
1	C	320	ALA	N-CA-C	-10.48	99.86	111.28
1	E	320	ALA	N-CA-C	-10.48	99.86	111.28
1	G	320	ALA	N-CA-C	-10.48	99.86	111.28
1	J	320	ALA	N-CA-C	-10.48	99.86	111.28
1	L	320	ALA	N-CA-C	-10.48	99.86	111.28
1	N	320	ALA	N-CA-C	-10.48	99.86	111.28
1	P	320	ALA	N-CA-C	-10.48	99.86	111.28
1	D	320	ALA	N-CA-C	-10.48	99.86	111.28
1	F	320	ALA	N-CA-C	-10.48	99.86	111.28
1	H	320	ALA	N-CA-C	-10.48	99.86	111.28
1	I	320	ALA	N-CA-C	-10.48	99.86	111.28
1	K	320	ALA	N-CA-C	-10.48	99.86	111.28
1	M	320	ALA	N-CA-C	-10.48	99.86	111.28
1	O	320	ALA	N-CA-C	-10.48	99.86	111.28
1	B	320	ALA	N-CA-C	-10.47	99.87	111.28
1	B	489	VAL	N-CA-C	10.45	122.21	107.37
1	A	489	VAL	N-CA-C	10.44	122.20	107.37
1	A	320	ALA	N-CA-C	-10.44	99.91	111.28
1	H	489	VAL	N-CA-C	10.42	122.17	107.37
1	C	489	VAL	N-CA-C	10.42	122.17	107.37
1	E	489	VAL	N-CA-C	10.42	122.17	107.37
1	G	489	VAL	N-CA-C	10.42	122.17	107.37
1	J	489	VAL	N-CA-C	10.42	122.17	107.37
1	L	489	VAL	N-CA-C	10.42	122.17	107.37
1	N	489	VAL	N-CA-C	10.42	122.17	107.37
1	P	489	VAL	N-CA-C	10.42	122.17	107.37
1	D	489	VAL	N-CA-C	10.38	122.11	107.37
1	F	489	VAL	N-CA-C	10.38	122.11	107.37
1	I	489	VAL	N-CA-C	10.38	122.11	107.37
1	K	489	VAL	N-CA-C	10.38	122.11	107.37
1	M	489	VAL	N-CA-C	10.38	122.11	107.37
1	O	489	VAL	N-CA-C	10.38	122.11	107.37
1	A	424	GLY	N-CA-C	-10.28	88.81	113.18
1	C	307	ARG	N-CA-C	10.28	127.71	114.75
1	C	424	GLY	N-CA-C	-10.28	88.81	113.18

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	424	GLY	N-CA-C	-10.28	88.81	113.18
1	E	307	ARG	N-CA-C	10.28	127.71	114.75
1	E	424	GLY	N-CA-C	-10.28	88.81	113.18
1	F	424	GLY	N-CA-C	-10.28	88.81	113.18
1	G	307	ARG	N-CA-C	10.28	127.71	114.75
1	G	424	GLY	N-CA-C	-10.28	88.81	113.18
1	H	424	GLY	N-CA-C	-10.28	88.81	113.18
1	I	424	GLY	N-CA-C	-10.28	88.81	113.18
1	J	307	ARG	N-CA-C	10.28	127.71	114.75
1	J	424	GLY	N-CA-C	-10.28	88.81	113.18
1	K	424	GLY	N-CA-C	-10.28	88.81	113.18
1	L	307	ARG	N-CA-C	10.28	127.71	114.75
1	L	424	GLY	N-CA-C	-10.28	88.81	113.18
1	M	424	GLY	N-CA-C	-10.28	88.81	113.18
1	N	307	ARG	N-CA-C	10.28	127.71	114.75
1	O	424	GLY	N-CA-C	-10.28	88.81	113.18
1	P	307	ARG	N-CA-C	10.28	127.71	114.75
1	P	424	GLY	N-CA-C	-10.28	88.81	113.18
1	B	424	GLY	N-CA-C	-10.28	88.83	113.18
1	B	307	ARG	N-CA-C	10.27	127.69	114.75
1	D	307	ARG	N-CA-C	10.27	127.69	114.75
1	F	307	ARG	N-CA-C	10.27	127.69	114.75
1	H	307	ARG	N-CA-C	10.27	127.69	114.75
1	I	307	ARG	N-CA-C	10.27	127.69	114.75
1	K	307	ARG	N-CA-C	10.27	127.69	114.75
1	M	307	ARG	N-CA-C	10.27	127.69	114.75
1	N	424	GLY	N-CA-C	-10.27	88.84	113.18
1	O	307	ARG	N-CA-C	10.27	127.69	114.75
1	A	307	ARG	N-CA-C	10.26	127.68	114.75
1	B	168	GLU	N-CA-C	9.90	126.66	113.20
1	A	168	GLU	N-CA-C	9.89	126.65	113.20
1	D	168	GLU	N-CA-C	9.88	126.64	113.20
1	F	168	GLU	N-CA-C	9.88	126.64	113.20
1	H	168	GLU	N-CA-C	9.88	126.64	113.20
1	I	168	GLU	N-CA-C	9.88	126.64	113.20
1	K	168	GLU	N-CA-C	9.88	126.64	113.20
1	M	168	GLU	N-CA-C	9.88	126.64	113.20
1	O	168	GLU	N-CA-C	9.88	126.64	113.20
1	C	168	GLU	N-CA-C	9.87	126.62	113.20
1	E	168	GLU	N-CA-C	9.87	126.62	113.20
1	G	168	GLU	N-CA-C	9.87	126.62	113.20
1	J	168	GLU	N-CA-C	9.87	126.62	113.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	L	168	GLU	N-CA-C	9.87	126.62	113.20
1	N	168	GLU	N-CA-C	9.87	126.62	113.20
1	P	168	GLU	N-CA-C	9.87	126.62	113.20
1	B	334	ALA	N-CA-C	9.82	121.98	111.28
1	D	334	ALA	N-CA-C	9.80	121.96	111.28
1	F	334	ALA	N-CA-C	9.80	121.96	111.28
1	H	334	ALA	N-CA-C	9.80	121.96	111.28
1	I	334	ALA	N-CA-C	9.80	121.96	111.28
1	K	334	ALA	N-CA-C	9.80	121.96	111.28
1	M	334	ALA	N-CA-C	9.80	121.96	111.28
1	O	334	ALA	N-CA-C	9.80	121.96	111.28
1	C	334	ALA	N-CA-C	9.78	121.94	111.28
1	E	334	ALA	N-CA-C	9.78	121.94	111.28
1	G	334	ALA	N-CA-C	9.78	121.94	111.28
1	J	334	ALA	N-CA-C	9.78	121.94	111.28
1	L	334	ALA	N-CA-C	9.78	121.94	111.28
1	N	334	ALA	N-CA-C	9.78	121.94	111.28
1	P	334	ALA	N-CA-C	9.78	121.94	111.28
1	A	334	ALA	N-CA-C	9.78	121.94	111.28
1	B	346	ARG	N-CA-C	9.75	125.61	110.20
1	B	411	LEU	N-CA-C	-9.74	100.66	111.28
1	D	346	ARG	N-CA-C	9.73	125.58	110.20
1	F	346	ARG	N-CA-C	9.73	125.58	110.20
1	H	346	ARG	N-CA-C	9.73	125.58	110.20
1	I	346	ARG	N-CA-C	9.73	125.58	110.20
1	K	346	ARG	N-CA-C	9.73	125.58	110.20
1	M	346	ARG	N-CA-C	9.73	125.58	110.20
1	O	346	ARG	N-CA-C	9.73	125.58	110.20
1	C	411	LEU	N-CA-C	-9.72	100.68	111.28
1	E	411	LEU	N-CA-C	-9.72	100.68	111.28
1	G	411	LEU	N-CA-C	-9.72	100.68	111.28
1	J	411	LEU	N-CA-C	-9.72	100.68	111.28
1	L	411	LEU	N-CA-C	-9.72	100.68	111.28
1	N	411	LEU	N-CA-C	-9.72	100.68	111.28
1	P	411	LEU	N-CA-C	-9.72	100.68	111.28
1	C	346	ARG	N-CA-C	9.72	125.55	110.20
1	E	346	ARG	N-CA-C	9.72	125.55	110.20
1	G	346	ARG	N-CA-C	9.72	125.55	110.20
1	J	346	ARG	N-CA-C	9.72	125.55	110.20
1	L	346	ARG	N-CA-C	9.72	125.55	110.20
1	N	346	ARG	N-CA-C	9.72	125.55	110.20
1	P	346	ARG	N-CA-C	9.72	125.55	110.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	411	LEU	N-CA-C	-9.71	100.70	111.28
1	A	346	ARG	N-CA-C	9.70	125.52	110.20
1	D	411	LEU	N-CA-C	-9.70	100.71	111.28
1	F	411	LEU	N-CA-C	-9.70	100.71	111.28
1	H	411	LEU	N-CA-C	-9.70	100.71	111.28
1	I	411	LEU	N-CA-C	-9.70	100.71	111.28
1	K	411	LEU	N-CA-C	-9.70	100.71	111.28
1	M	411	LEU	N-CA-C	-9.70	100.71	111.28
1	O	411	LEU	N-CA-C	-9.70	100.71	111.28
1	C	169	LYS	N-CA-C	-9.68	101.40	113.01
1	E	169	LYS	N-CA-C	-9.68	101.40	113.01
1	G	169	LYS	N-CA-C	-9.68	101.40	113.01
1	J	169	LYS	N-CA-C	-9.68	101.40	113.01
1	L	169	LYS	N-CA-C	-9.68	101.40	113.01
1	N	169	LYS	N-CA-C	-9.68	101.40	113.01
1	P	169	LYS	N-CA-C	-9.68	101.40	113.01
1	A	169	LYS	N-CA-C	-9.64	101.44	113.01
1	B	169	LYS	N-CA-C	-9.61	101.48	113.01
1	D	169	LYS	N-CA-C	-9.58	101.51	113.01
1	F	169	LYS	N-CA-C	-9.58	101.51	113.01
1	H	169	LYS	N-CA-C	-9.58	101.51	113.01
1	I	169	LYS	N-CA-C	-9.58	101.51	113.01
1	K	169	LYS	N-CA-C	-9.58	101.51	113.01
1	M	169	LYS	N-CA-C	-9.58	101.51	113.01
1	O	169	LYS	N-CA-C	-9.58	101.51	113.01
1	A	218	ARG	N-CA-C	-8.80	102.55	113.20
1	D	218	ARG	N-CA-C	-8.80	102.55	113.20
1	F	218	ARG	N-CA-C	-8.80	102.55	113.20
1	H	218	ARG	N-CA-C	-8.80	102.55	113.20
1	I	218	ARG	N-CA-C	-8.80	102.55	113.20
1	K	218	ARG	N-CA-C	-8.80	102.55	113.20
1	M	218	ARG	N-CA-C	-8.80	102.55	113.20
1	O	218	ARG	N-CA-C	-8.80	102.55	113.20
1	B	218	ARG	N-CA-C	-8.80	102.56	113.20
1	C	218	ARG	N-CA-C	-8.77	102.59	113.20
1	E	218	ARG	N-CA-C	-8.77	102.59	113.20
1	G	218	ARG	N-CA-C	-8.77	102.59	113.20
1	J	218	ARG	N-CA-C	-8.77	102.59	113.20
1	L	218	ARG	N-CA-C	-8.77	102.59	113.20
1	N	218	ARG	N-CA-C	-8.77	102.59	113.20
1	P	218	ARG	N-CA-C	-8.77	102.59	113.20
1	A	296	HIS	N-CA-C	-8.75	101.67	111.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	296	HIS	N-CA-C	-8.75	101.67	111.82
1	F	296	HIS	N-CA-C	-8.75	101.67	111.82
1	H	296	HIS	N-CA-C	-8.75	101.67	111.82
1	I	296	HIS	N-CA-C	-8.75	101.67	111.82
1	K	296	HIS	N-CA-C	-8.75	101.67	111.82
1	M	296	HIS	N-CA-C	-8.75	101.67	111.82
1	O	296	HIS	N-CA-C	-8.75	101.67	111.82
1	B	79	ILE	N-CA-C	-8.73	101.49	111.00
1	B	296	HIS	N-CA-C	-8.72	101.70	111.82
1	D	79	ILE	N-CA-C	-8.72	101.50	111.00
1	F	79	ILE	N-CA-C	-8.72	101.50	111.00
1	I	79	ILE	N-CA-C	-8.72	101.50	111.00
1	K	79	ILE	N-CA-C	-8.72	101.50	111.00
1	M	79	ILE	N-CA-C	-8.72	101.50	111.00
1	O	79	ILE	N-CA-C	-8.72	101.50	111.00
1	C	296	HIS	N-CA-C	-8.71	101.72	111.82
1	E	296	HIS	N-CA-C	-8.71	101.72	111.82
1	G	296	HIS	N-CA-C	-8.71	101.72	111.82
1	J	296	HIS	N-CA-C	-8.71	101.72	111.82
1	L	296	HIS	N-CA-C	-8.71	101.72	111.82
1	N	296	HIS	N-CA-C	-8.71	101.72	111.82
1	P	296	HIS	N-CA-C	-8.71	101.72	111.82
1	C	79	ILE	N-CA-C	-8.70	101.51	111.00
1	E	79	ILE	N-CA-C	-8.70	101.51	111.00
1	G	79	ILE	N-CA-C	-8.70	101.51	111.00
1	J	79	ILE	N-CA-C	-8.70	101.51	111.00
1	L	79	ILE	N-CA-C	-8.70	101.51	111.00
1	N	79	ILE	N-CA-C	-8.70	101.51	111.00
1	P	79	ILE	N-CA-C	-8.70	101.51	111.00
1	H	79	ILE	N-CA-C	-8.66	101.56	111.00
1	A	79	ILE	N-CA-C	-8.66	101.56	111.00
1	A	87	LYS	N-CA-C	-8.65	97.47	110.28
1	B	87	LYS	N-CA-C	-8.65	97.48	110.28
1	C	87	LYS	N-CA-C	-8.64	97.49	110.28
1	E	87	LYS	N-CA-C	-8.64	97.49	110.28
1	G	87	LYS	N-CA-C	-8.64	97.49	110.28
1	J	87	LYS	N-CA-C	-8.64	97.49	110.28
1	L	87	LYS	N-CA-C	-8.64	97.49	110.28
1	N	87	LYS	N-CA-C	-8.64	97.49	110.28
1	P	87	LYS	N-CA-C	-8.64	97.49	110.28
1	D	87	LYS	N-CA-C	-8.63	97.50	110.28
1	F	87	LYS	N-CA-C	-8.63	97.50	110.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	H	87	LYS	N-CA-C	-8.63	97.50	110.28
1	I	87	LYS	N-CA-C	-8.63	97.50	110.28
1	K	87	LYS	N-CA-C	-8.63	97.50	110.28
1	M	87	LYS	N-CA-C	-8.63	97.50	110.28
1	O	87	LYS	N-CA-C	-8.63	97.50	110.28
1	A	221	ALA	N-CA-C	8.07	121.45	109.59
1	C	221	ALA	N-CA-C	8.06	121.45	109.59
1	E	221	ALA	N-CA-C	8.06	121.45	109.59
1	G	221	ALA	N-CA-C	8.06	121.45	109.59
1	J	221	ALA	N-CA-C	8.06	121.45	109.59
1	L	221	ALA	N-CA-C	8.06	121.45	109.59
1	N	221	ALA	N-CA-C	8.06	121.45	109.59
1	P	221	ALA	N-CA-C	8.06	121.45	109.59
1	C	213	LEU	N-CA-C	-8.05	102.22	112.93
1	E	213	LEU	N-CA-C	-8.05	102.22	112.93
1	G	213	LEU	N-CA-C	-8.05	102.22	112.93
1	J	213	LEU	N-CA-C	-8.05	102.22	112.93
1	L	213	LEU	N-CA-C	-8.05	102.22	112.93
1	N	213	LEU	N-CA-C	-8.05	102.22	112.93
1	P	213	LEU	N-CA-C	-8.05	102.22	112.93
1	D	221	ALA	N-CA-C	8.05	121.42	109.59
1	F	221	ALA	N-CA-C	8.05	121.42	109.59
1	H	221	ALA	N-CA-C	8.05	121.42	109.59
1	I	221	ALA	N-CA-C	8.05	121.42	109.59
1	K	221	ALA	N-CA-C	8.05	121.42	109.59
1	M	221	ALA	N-CA-C	8.05	121.42	109.59
1	O	221	ALA	N-CA-C	8.05	121.42	109.59
1	B	221	ALA	N-CA-C	8.04	121.41	109.59
1	A	213	LEU	N-CA-C	-8.02	102.26	112.93
1	D	213	LEU	N-CA-C	-8.01	102.28	112.93
1	F	213	LEU	N-CA-C	-8.01	102.28	112.93
1	H	213	LEU	N-CA-C	-8.01	102.28	112.93
1	I	213	LEU	N-CA-C	-8.01	102.28	112.93
1	K	213	LEU	N-CA-C	-8.01	102.28	112.93
1	M	213	LEU	N-CA-C	-8.01	102.28	112.93
1	O	213	LEU	N-CA-C	-8.01	102.28	112.93
1	B	213	LEU	N-CA-C	-8.00	102.29	112.93
1	D	330	LYS	N-CA-C	7.98	120.51	109.18
1	F	330	LYS	N-CA-C	7.98	120.51	109.18
1	H	330	LYS	N-CA-C	7.98	120.51	109.18
1	I	330	LYS	N-CA-C	7.98	120.51	109.18
1	K	330	LYS	N-CA-C	7.98	120.51	109.18

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	M	330	LYS	N-CA-C	7.98	120.51	109.18
1	O	330	LYS	N-CA-C	7.98	120.51	109.18
1	B	330	LYS	N-CA-C	7.95	120.47	109.18
1	C	330	LYS	N-CA-C	7.94	120.45	109.18
1	E	330	LYS	N-CA-C	7.94	120.45	109.18
1	G	330	LYS	N-CA-C	7.94	120.45	109.18
1	J	330	LYS	N-CA-C	7.94	120.45	109.18
1	L	330	LYS	N-CA-C	7.94	120.45	109.18
1	N	330	LYS	N-CA-C	7.94	120.45	109.18
1	P	330	LYS	N-CA-C	7.94	120.45	109.18
1	D	521	LEU	N-CA-C	7.93	121.74	110.23
1	F	521	LEU	N-CA-C	7.93	121.74	110.23
1	I	521	LEU	N-CA-C	7.93	121.74	110.23
1	K	521	LEU	N-CA-C	7.93	121.74	110.23
1	M	521	LEU	N-CA-C	7.93	121.74	110.23
1	O	521	LEU	N-CA-C	7.93	121.74	110.23
1	A	330	LYS	N-CA-C	7.93	120.44	109.18
1	B	521	LEU	N-CA-C	7.93	121.73	110.23
1	A	521	LEU	N-CA-C	7.92	121.71	110.23
1	H	521	LEU	N-CA-C	7.91	121.70	110.23
1	C	521	LEU	N-CA-C	7.90	121.68	110.23
1	E	521	LEU	N-CA-C	7.90	121.68	110.23
1	G	521	LEU	N-CA-C	7.90	121.68	110.23
1	J	521	LEU	N-CA-C	7.90	121.68	110.23
1	L	521	LEU	N-CA-C	7.90	121.68	110.23
1	N	521	LEU	N-CA-C	7.90	121.68	110.23
1	P	521	LEU	N-CA-C	7.90	121.68	110.23
1	C	44	MET	N-CA-C	7.87	120.49	110.33
1	D	44	MET	N-CA-C	7.86	120.46	110.33
1	F	44	MET	N-CA-C	7.86	120.46	110.33
1	H	44	MET	N-CA-C	7.86	120.46	110.33
1	I	44	MET	N-CA-C	7.86	120.46	110.33
1	K	44	MET	N-CA-C	7.86	120.46	110.33
1	M	44	MET	N-CA-C	7.86	120.46	110.33
1	O	44	MET	N-CA-C	7.86	120.46	110.33
1	B	44	MET	N-CA-C	7.85	120.46	110.33
1	E	44	MET	N-CA-C	7.84	120.44	110.33
1	G	44	MET	N-CA-C	7.84	120.44	110.33
1	J	44	MET	N-CA-C	7.84	120.44	110.33
1	L	44	MET	N-CA-C	7.84	120.44	110.33
1	N	44	MET	N-CA-C	7.84	120.44	110.33
1	P	44	MET	N-CA-C	7.84	120.44	110.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	44	MET	N-CA-C	7.83	120.44	110.33
1	C	335	GLN	N-CA-C	7.73	121.84	109.24
1	E	335	GLN	N-CA-C	7.73	121.84	109.24
1	G	335	GLN	N-CA-C	7.73	121.84	109.24
1	J	335	GLN	N-CA-C	7.73	121.84	109.24
1	L	335	GLN	N-CA-C	7.73	121.84	109.24
1	N	335	GLN	N-CA-C	7.73	121.84	109.24
1	P	335	GLN	N-CA-C	7.73	121.84	109.24
1	B	335	GLN	N-CA-C	7.72	121.83	109.24
1	D	335	GLN	N-CA-C	7.71	121.81	109.24
1	F	335	GLN	N-CA-C	7.71	121.81	109.24
1	H	335	GLN	N-CA-C	7.71	121.81	109.24
1	I	335	GLN	N-CA-C	7.71	121.81	109.24
1	K	335	GLN	N-CA-C	7.71	121.81	109.24
1	M	335	GLN	N-CA-C	7.71	121.81	109.24
1	O	335	GLN	N-CA-C	7.71	121.81	109.24
1	A	335	GLN	N-CA-C	7.70	121.80	109.24
1	C	361	HIS	CA-C-N	7.52	129.25	119.84
1	C	361	HIS	C-N-CA	7.52	129.25	119.84
1	E	361	HIS	CA-C-N	7.52	129.25	119.84
1	E	361	HIS	C-N-CA	7.52	129.25	119.84
1	G	361	HIS	CA-C-N	7.52	129.25	119.84
1	G	361	HIS	C-N-CA	7.52	129.25	119.84
1	J	361	HIS	CA-C-N	7.52	129.25	119.84
1	J	361	HIS	C-N-CA	7.52	129.25	119.84
1	L	361	HIS	CA-C-N	7.52	129.25	119.84
1	L	361	HIS	C-N-CA	7.52	129.25	119.84
1	N	361	HIS	CA-C-N	7.52	129.25	119.84
1	N	361	HIS	C-N-CA	7.52	129.25	119.84
1	P	361	HIS	CA-C-N	7.52	129.25	119.84
1	P	361	HIS	C-N-CA	7.52	129.25	119.84
1	D	197	LYS	N-CA-C	-7.48	99.89	108.49
1	F	197	LYS	N-CA-C	-7.48	99.89	108.49
1	H	197	LYS	N-CA-C	-7.48	99.89	108.49
1	I	197	LYS	N-CA-C	-7.48	99.89	108.49
1	K	197	LYS	N-CA-C	-7.48	99.89	108.49
1	M	197	LYS	N-CA-C	-7.48	99.89	108.49
1	O	197	LYS	N-CA-C	-7.48	99.89	108.49
1	D	361	HIS	CA-C-N	7.47	129.17	119.84
1	D	361	HIS	C-N-CA	7.47	129.17	119.84
1	F	361	HIS	CA-C-N	7.47	129.17	119.84
1	F	361	HIS	C-N-CA	7.47	129.17	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	H	361	HIS	CA-C-N	7.47	129.17	119.84
1	H	361	HIS	C-N-CA	7.47	129.17	119.84
1	I	361	HIS	CA-C-N	7.47	129.17	119.84
1	I	361	HIS	C-N-CA	7.47	129.17	119.84
1	K	361	HIS	CA-C-N	7.47	129.17	119.84
1	K	361	HIS	C-N-CA	7.47	129.17	119.84
1	M	361	HIS	CA-C-N	7.47	129.17	119.84
1	M	361	HIS	C-N-CA	7.47	129.17	119.84
1	O	361	HIS	CA-C-N	7.47	129.17	119.84
1	O	361	HIS	C-N-CA	7.47	129.17	119.84
1	C	197	LYS	N-CA-C	-7.46	99.91	108.49
1	E	197	LYS	N-CA-C	-7.46	99.91	108.49
1	G	197	LYS	N-CA-C	-7.46	99.91	108.49
1	J	197	LYS	N-CA-C	-7.46	99.91	108.49
1	L	197	LYS	N-CA-C	-7.46	99.91	108.49
1	N	197	LYS	N-CA-C	-7.46	99.91	108.49
1	P	197	LYS	N-CA-C	-7.46	99.91	108.49
1	A	197	LYS	N-CA-C	-7.46	99.91	108.49
1	C	195	ILE	N-CA-C	7.45	124.83	109.34
1	E	195	ILE	N-CA-C	7.45	124.83	109.34
1	G	195	ILE	N-CA-C	7.45	124.83	109.34
1	J	195	ILE	N-CA-C	7.45	124.83	109.34
1	L	195	ILE	N-CA-C	7.45	124.83	109.34
1	N	195	ILE	N-CA-C	7.45	124.83	109.34
1	P	195	ILE	N-CA-C	7.45	124.83	109.34
1	A	361	HIS	CA-C-N	7.45	129.15	119.84
1	A	361	HIS	C-N-CA	7.45	129.15	119.84
1	A	331	ASP	N-CA-C	7.44	126.65	110.80
1	B	331	ASP	N-CA-C	7.44	126.65	110.80
1	B	361	HIS	CA-C-N	7.44	129.14	119.84
1	B	361	HIS	C-N-CA	7.44	129.14	119.84
1	D	195	ILE	N-CA-C	7.44	124.81	109.34
1	F	195	ILE	N-CA-C	7.44	124.81	109.34
1	H	195	ILE	N-CA-C	7.44	124.81	109.34
1	I	195	ILE	N-CA-C	7.44	124.81	109.34
1	K	195	ILE	N-CA-C	7.44	124.81	109.34
1	M	195	ILE	N-CA-C	7.44	124.81	109.34
1	O	195	ILE	N-CA-C	7.44	124.81	109.34
1	B	195	ILE	N-CA-C	7.43	124.80	109.34
1	B	197	LYS	N-CA-C	-7.42	99.95	108.49
1	C	331	ASP	N-CA-C	7.41	126.58	110.80
1	E	331	ASP	N-CA-C	7.41	126.58	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	G	331	ASP	N-CA-C	7.41	126.58	110.80
1	J	331	ASP	N-CA-C	7.41	126.58	110.80
1	L	331	ASP	N-CA-C	7.41	126.58	110.80
1	N	331	ASP	N-CA-C	7.41	126.58	110.80
1	P	331	ASP	N-CA-C	7.41	126.58	110.80
1	A	195	ILE	N-CA-C	7.41	124.74	109.34
1	D	331	ASP	N-CA-C	7.41	126.58	110.80
1	F	331	ASP	N-CA-C	7.41	126.58	110.80
1	H	331	ASP	N-CA-C	7.41	126.58	110.80
1	I	331	ASP	N-CA-C	7.41	126.58	110.80
1	K	331	ASP	N-CA-C	7.41	126.58	110.80
1	M	331	ASP	N-CA-C	7.41	126.58	110.80
1	O	331	ASP	N-CA-C	7.41	126.58	110.80
1	B	232	ILE	N-CA-C	7.30	124.52	109.34
1	D	232	ILE	N-CA-C	7.29	124.51	109.34
1	F	232	ILE	N-CA-C	7.29	124.51	109.34
1	H	232	ILE	N-CA-C	7.29	124.51	109.34
1	I	232	ILE	N-CA-C	7.29	124.51	109.34
1	K	232	ILE	N-CA-C	7.29	124.51	109.34
1	M	232	ILE	N-CA-C	7.29	124.51	109.34
1	O	232	ILE	N-CA-C	7.29	124.51	109.34
1	C	232	ILE	N-CA-C	7.28	124.48	109.34
1	E	232	ILE	N-CA-C	7.28	124.48	109.34
1	G	232	ILE	N-CA-C	7.28	124.48	109.34
1	J	232	ILE	N-CA-C	7.28	124.48	109.34
1	L	232	ILE	N-CA-C	7.28	124.48	109.34
1	N	232	ILE	N-CA-C	7.28	124.48	109.34
1	P	232	ILE	N-CA-C	7.28	124.48	109.34
1	A	232	ILE	N-CA-C	7.24	124.40	109.34
1	A	518	ALA	N-CA-C	-7.21	94.40	107.60
1	B	138	ILE	N-CA-C	-7.20	106.48	113.53
1	A	363	LYS	N-CA-C	7.17	120.97	109.86
1	B	363	LYS	N-CA-C	7.16	120.95	109.86
1	C	363	LYS	N-CA-C	7.15	120.94	109.86
1	E	363	LYS	N-CA-C	7.15	120.94	109.86
1	G	363	LYS	N-CA-C	7.15	120.94	109.86
1	J	363	LYS	N-CA-C	7.15	120.94	109.86
1	L	363	LYS	N-CA-C	7.15	120.94	109.86
1	N	363	LYS	N-CA-C	7.15	120.94	109.86
1	P	363	LYS	N-CA-C	7.15	120.94	109.86
1	D	363	LYS	N-CA-C	7.13	120.91	109.86
1	F	363	LYS	N-CA-C	7.13	120.91	109.86

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	H	363	LYS	N-CA-C	7.13	120.91	109.86
1	I	363	LYS	N-CA-C	7.13	120.91	109.86
1	K	363	LYS	N-CA-C	7.13	120.91	109.86
1	M	363	LYS	N-CA-C	7.13	120.91	109.86
1	O	363	LYS	N-CA-C	7.13	120.91	109.86
1	A	144	ALA	N-CA-C	-7.12	105.52	114.56
1	D	144	ALA	N-CA-C	-7.12	105.52	114.56
1	F	144	ALA	N-CA-C	-7.12	105.52	114.56
1	I	144	ALA	N-CA-C	-7.12	105.52	114.56
1	K	144	ALA	N-CA-C	-7.12	105.52	114.56
1	M	144	ALA	N-CA-C	-7.12	105.52	114.56
1	O	144	ALA	N-CA-C	-7.12	105.52	114.56
1	A	194	LYS	N-CA-C	7.11	120.27	110.24
1	H	144	ALA	N-CA-C	-7.11	105.53	114.56
1	B	194	LYS	N-CA-C	7.11	120.26	110.24
1	C	194	LYS	N-CA-C	7.10	120.25	110.24
1	E	194	LYS	N-CA-C	7.10	120.25	110.24
1	G	194	LYS	N-CA-C	7.10	120.25	110.24
1	J	194	LYS	N-CA-C	7.10	120.25	110.24
1	L	194	LYS	N-CA-C	7.10	120.25	110.24
1	N	194	LYS	N-CA-C	7.10	120.25	110.24
1	P	194	LYS	N-CA-C	7.10	120.25	110.24
1	D	194	LYS	N-CA-C	7.07	120.21	110.24
1	F	194	LYS	N-CA-C	7.07	120.21	110.24
1	H	194	LYS	N-CA-C	7.07	120.21	110.24
1	I	194	LYS	N-CA-C	7.07	120.21	110.24
1	K	194	LYS	N-CA-C	7.07	120.21	110.24
1	M	194	LYS	N-CA-C	7.07	120.21	110.24
1	O	194	LYS	N-CA-C	7.07	120.21	110.24
1	B	144	ALA	N-CA-C	-7.07	105.58	114.56
1	C	144	ALA	N-CA-C	-7.05	105.61	114.56
1	E	144	ALA	N-CA-C	-7.05	105.61	114.56
1	G	144	ALA	N-CA-C	-7.05	105.61	114.56
1	J	144	ALA	N-CA-C	-7.05	105.61	114.56
1	L	144	ALA	N-CA-C	-7.05	105.61	114.56
1	N	144	ALA	N-CA-C	-7.05	105.61	114.56
1	P	144	ALA	N-CA-C	-7.05	105.61	114.56
1	B	17	GLY	N-CA-C	7.01	129.80	113.18
1	O	17	GLY	N-CA-C	7.01	129.79	113.18
1	H	17	GLY	N-CA-C	7.00	129.76	113.18
1	D	17	GLY	N-CA-C	6.99	129.74	113.18
1	F	17	GLY	N-CA-C	6.99	129.74	113.18

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	I	17	GLY	N-CA-C	6.99	129.74	113.18
1	K	17	GLY	N-CA-C	6.99	129.74	113.18
1	M	17	GLY	N-CA-C	6.99	129.74	113.18
1	A	17	GLY	N-CA-C	6.98	129.73	113.18
1	C	17	GLY	N-CA-C	6.98	129.73	113.18
1	E	17	GLY	N-CA-C	6.98	129.73	113.18
1	G	17	GLY	N-CA-C	6.98	129.73	113.18
1	J	17	GLY	N-CA-C	6.98	129.73	113.18
1	L	17	GLY	N-CA-C	6.98	129.73	113.18
1	N	17	GLY	N-CA-C	6.98	129.72	113.18
1	P	17	GLY	N-CA-C	6.98	129.73	113.18
1	C	254	ASP	CA-C-N	6.95	128.42	120.98
1	C	254	ASP	C-N-CA	6.95	128.42	120.98
1	E	254	ASP	CA-C-N	6.94	128.41	120.98
1	E	254	ASP	C-N-CA	6.94	128.41	120.98
1	J	254	ASP	CA-C-N	6.94	128.41	120.98
1	J	254	ASP	C-N-CA	6.94	128.41	120.98
1	L	254	ASP	CA-C-N	6.94	128.41	120.98
1	L	254	ASP	C-N-CA	6.94	128.41	120.98
1	N	254	ASP	CA-C-N	6.94	128.41	120.98
1	N	254	ASP	C-N-CA	6.94	128.41	120.98
1	P	254	ASP	CA-C-N	6.94	128.41	120.98
1	P	254	ASP	C-N-CA	6.94	128.41	120.98
1	G	254	ASP	CA-C-N	6.92	128.38	120.98
1	G	254	ASP	C-N-CA	6.92	128.38	120.98
1	A	254	ASP	CA-C-N	6.91	128.37	120.98
1	A	254	ASP	C-N-CA	6.91	128.37	120.98
1	C	518	ALA	N-CA-C	-6.87	94.37	108.18
1	E	518	ALA	N-CA-C	-6.87	94.37	108.18
1	G	518	ALA	N-CA-C	-6.87	94.37	108.18
1	J	518	ALA	N-CA-C	-6.87	94.37	108.18
1	L	518	ALA	N-CA-C	-6.87	94.37	108.18
1	N	518	ALA	N-CA-C	-6.87	94.37	108.18
1	P	518	ALA	N-CA-C	-6.87	94.37	108.18
1	D	518	ALA	N-CA-C	-6.87	94.38	108.18
1	F	518	ALA	N-CA-C	-6.87	94.38	108.18
1	I	518	ALA	N-CA-C	-6.87	94.38	108.18
1	K	518	ALA	N-CA-C	-6.87	94.38	108.18
1	M	518	ALA	N-CA-C	-6.87	94.38	108.18
1	O	518	ALA	N-CA-C	-6.87	94.38	108.18
1	H	518	ALA	N-CA-C	-6.85	94.40	108.18
1	B	518	ALA	N-CA-C	-6.85	94.42	108.18

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	254	ASP	CA-C-N	6.83	128.29	120.98
1	B	254	ASP	C-N-CA	6.83	128.29	120.98
1	D	254	ASP	CA-C-N	6.80	128.25	120.98
1	D	254	ASP	C-N-CA	6.80	128.25	120.98
1	C	138	ILE	N-CA-C	-6.78	106.89	113.53
1	E	138	ILE	N-CA-C	-6.78	106.89	113.53
1	G	138	ILE	N-CA-C	-6.78	106.89	113.53
1	J	138	ILE	N-CA-C	-6.78	106.89	113.53
1	L	138	ILE	N-CA-C	-6.78	106.89	113.53
1	N	138	ILE	N-CA-C	-6.78	106.89	113.53
1	P	138	ILE	N-CA-C	-6.78	106.89	113.53
1	D	138	ILE	N-CA-C	-6.78	106.89	113.53
1	F	138	ILE	N-CA-C	-6.78	106.89	113.53
1	H	138	ILE	N-CA-C	-6.78	106.89	113.53
1	I	138	ILE	N-CA-C	-6.78	106.89	113.53
1	K	138	ILE	N-CA-C	-6.78	106.89	113.53
1	M	138	ILE	N-CA-C	-6.78	106.89	113.53
1	O	138	ILE	N-CA-C	-6.78	106.89	113.53
1	I	254	ASP	CA-C-N	6.77	128.23	120.98
1	I	254	ASP	C-N-CA	6.77	128.23	120.98
1	K	254	ASP	CA-C-N	6.77	128.23	120.98
1	K	254	ASP	C-N-CA	6.77	128.23	120.98
1	M	254	ASP	CA-C-N	6.77	128.23	120.98
1	M	254	ASP	C-N-CA	6.77	128.23	120.98
1	O	254	ASP	CA-C-N	6.77	128.23	120.98
1	O	254	ASP	C-N-CA	6.77	128.23	120.98
1	H	254	ASP	CA-C-N	6.76	128.21	120.98
1	H	254	ASP	C-N-CA	6.76	128.21	120.98
1	A	138	ILE	N-CA-C	-6.76	106.91	113.53
1	F	254	ASP	CA-C-N	6.75	128.21	120.98
1	F	254	ASP	C-N-CA	6.75	128.21	120.98
1	A	360	LYS	N-CA-C	6.69	125.05	110.80
1	A	19	ASP	N-CA-C	-6.67	105.43	113.97
1	D	43	GLY	N-CA-C	6.67	128.98	113.18
1	F	43	GLY	N-CA-C	6.67	128.98	113.18
1	H	43	GLY	N-CA-C	6.67	128.98	113.18
1	I	43	GLY	N-CA-C	6.67	128.98	113.18
1	K	43	GLY	N-CA-C	6.67	128.98	113.18
1	M	43	GLY	N-CA-C	6.67	128.98	113.18
1	O	43	GLY	N-CA-C	6.67	128.98	113.18
1	D	360	LYS	N-CA-C	6.67	125.00	110.80
1	F	360	LYS	N-CA-C	6.67	125.00	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	H	360	LYS	N-CA-C	6.67	125.00	110.80
1	I	360	LYS	N-CA-C	6.67	125.00	110.80
1	K	360	LYS	N-CA-C	6.67	125.00	110.80
1	M	360	LYS	N-CA-C	6.67	125.00	110.80
1	O	360	LYS	N-CA-C	6.67	125.00	110.80
1	C	43	GLY	N-CA-C	6.66	128.97	113.18
1	E	43	GLY	N-CA-C	6.66	128.97	113.18
1	G	43	GLY	N-CA-C	6.66	128.97	113.18
1	J	43	GLY	N-CA-C	6.66	128.97	113.18
1	L	43	GLY	N-CA-C	6.66	128.97	113.18
1	N	43	GLY	N-CA-C	6.66	128.97	113.18
1	P	43	GLY	N-CA-C	6.66	128.97	113.18
1	B	43	GLY	N-CA-C	6.66	128.97	113.18
1	C	360	LYS	N-CA-C	6.66	124.98	110.80
1	E	360	LYS	N-CA-C	6.66	124.98	110.80
1	G	360	LYS	N-CA-C	6.66	124.98	110.80
1	J	360	LYS	N-CA-C	6.66	124.98	110.80
1	L	360	LYS	N-CA-C	6.66	124.98	110.80
1	N	360	LYS	N-CA-C	6.66	124.98	110.80
1	P	360	LYS	N-CA-C	6.66	124.98	110.80
1	A	43	GLY	N-CA-C	6.65	128.95	113.18
1	B	360	LYS	N-CA-C	6.65	124.97	110.80
1	C	470	CYS	N-CA-C	6.61	124.88	110.80
1	E	470	CYS	N-CA-C	6.61	124.88	110.80
1	G	470	CYS	N-CA-C	6.61	124.88	110.80
1	J	470	CYS	N-CA-C	6.61	124.88	110.80
1	L	470	CYS	N-CA-C	6.61	124.88	110.80
1	N	470	CYS	N-CA-C	6.61	124.88	110.80
1	P	470	CYS	N-CA-C	6.61	124.88	110.80
1	A	470	CYS	N-CA-C	6.61	124.88	110.80
1	B	470	CYS	N-CA-C	6.61	124.87	110.80
1	D	470	CYS	N-CA-C	6.58	124.82	110.80
1	F	470	CYS	N-CA-C	6.58	124.82	110.80
1	H	470	CYS	N-CA-C	6.58	124.82	110.80
1	I	470	CYS	N-CA-C	6.58	124.82	110.80
1	K	470	CYS	N-CA-C	6.58	124.82	110.80
1	M	470	CYS	N-CA-C	6.58	124.82	110.80
1	O	470	CYS	N-CA-C	6.58	124.82	110.80
1	H	490	GLU	N-CA-C	-6.56	95.32	109.81
1	A	490	GLU	N-CA-C	-6.55	95.34	109.81
1	C	490	GLU	N-CA-C	-6.54	95.36	109.81
1	E	490	GLU	N-CA-C	-6.54	95.36	109.81

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	G	490	GLU	N-CA-C	-6.54	95.36	109.81
1	J	490	GLU	N-CA-C	-6.54	95.36	109.81
1	L	490	GLU	N-CA-C	-6.54	95.36	109.81
1	N	490	GLU	N-CA-C	-6.54	95.36	109.81
1	P	490	GLU	N-CA-C	-6.54	95.36	109.81
1	D	322	GLY	N-CA-C	-6.52	100.80	110.97
1	D	490	GLU	N-CA-C	-6.52	95.40	109.81
1	F	322	GLY	N-CA-C	-6.52	100.80	110.97
1	F	490	GLU	N-CA-C	-6.52	95.40	109.81
1	H	322	GLY	N-CA-C	-6.52	100.80	110.97
1	I	322	GLY	N-CA-C	-6.52	100.80	110.97
1	I	490	GLU	N-CA-C	-6.52	95.40	109.81
1	K	322	GLY	N-CA-C	-6.52	100.80	110.97
1	K	490	GLU	N-CA-C	-6.52	95.40	109.81
1	M	322	GLY	N-CA-C	-6.52	100.80	110.97
1	M	490	GLU	N-CA-C	-6.52	95.40	109.81
1	O	322	GLY	N-CA-C	-6.52	100.80	110.97
1	O	490	GLU	N-CA-C	-6.52	95.40	109.81
1	B	322	GLY	N-CA-C	-6.51	100.81	110.97
1	C	322	GLY	N-CA-C	-6.51	100.82	110.97
1	E	322	GLY	N-CA-C	-6.51	100.82	110.97
1	G	322	GLY	N-CA-C	-6.51	100.82	110.97
1	J	322	GLY	N-CA-C	-6.51	100.82	110.97
1	L	322	GLY	N-CA-C	-6.51	100.82	110.97
1	N	322	GLY	N-CA-C	-6.51	100.82	110.97
1	P	322	GLY	N-CA-C	-6.51	100.82	110.97
1	A	322	GLY	N-CA-C	-6.50	100.83	110.97
1	B	95	THR	N-CA-C	-6.42	104.38	111.82
1	D	19	ASP	N-CA-C	-6.40	105.40	113.72
1	F	19	ASP	N-CA-C	-6.40	105.40	113.72
1	I	19	ASP	N-CA-C	-6.40	105.40	113.72
1	K	19	ASP	N-CA-C	-6.40	105.40	113.72
1	M	19	ASP	N-CA-C	-6.40	105.40	113.72
1	C	95	THR	N-CA-C	-6.39	104.40	111.82
1	E	95	THR	N-CA-C	-6.39	104.40	111.82
1	G	95	THR	N-CA-C	-6.39	104.40	111.82
1	J	95	THR	N-CA-C	-6.39	104.40	111.82
1	L	95	THR	N-CA-C	-6.39	104.40	111.82
1	N	95	THR	N-CA-C	-6.39	104.40	111.82
1	P	95	THR	N-CA-C	-6.39	104.40	111.82
1	H	19	ASP	N-CA-C	-6.39	105.41	113.72
1	O	19	ASP	N-CA-C	-6.39	105.41	113.72

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	95	THR	N-CA-C	-6.38	104.41	111.82
1	B	19	ASP	N-CA-C	-6.37	105.44	113.72
1	C	19	ASP	N-CA-C	-6.37	105.44	113.72
1	E	19	ASP	N-CA-C	-6.37	105.44	113.72
1	G	19	ASP	N-CA-C	-6.37	105.44	113.72
1	J	19	ASP	N-CA-C	-6.37	105.44	113.72
1	L	19	ASP	N-CA-C	-6.37	105.44	113.72
1	N	19	ASP	N-CA-C	-6.37	105.44	113.72
1	P	19	ASP	N-CA-C	-6.37	105.44	113.72
1	D	95	THR	N-CA-C	-6.36	104.45	111.82
1	F	95	THR	N-CA-C	-6.36	104.45	111.82
1	H	95	THR	N-CA-C	-6.36	104.45	111.82
1	I	95	THR	N-CA-C	-6.36	104.45	111.82
1	K	95	THR	N-CA-C	-6.36	104.45	111.82
1	M	95	THR	N-CA-C	-6.36	104.45	111.82
1	O	95	THR	N-CA-C	-6.36	104.45	111.82
1	B	490	GLU	N-CA-C	-6.35	95.78	109.81
1	B	135	LEU	N-CA-C	-6.33	104.38	111.28
1	D	208	LEU	N-CA-C	6.30	124.22	110.80
1	F	208	LEU	N-CA-C	6.30	124.22	110.80
1	H	208	LEU	N-CA-C	6.30	124.22	110.80
1	I	208	LEU	N-CA-C	6.30	124.22	110.80
1	K	208	LEU	N-CA-C	6.30	124.22	110.80
1	M	208	LEU	N-CA-C	6.30	124.22	110.80
1	O	208	LEU	N-CA-C	6.30	124.22	110.80
1	C	487	GLY	N-CA-C	-6.29	98.27	113.18
1	E	487	GLY	N-CA-C	-6.29	98.27	113.18
1	G	487	GLY	N-CA-C	-6.29	98.27	113.18
1	J	487	GLY	N-CA-C	-6.29	98.27	113.18
1	L	487	GLY	N-CA-C	-6.29	98.27	113.18
1	N	487	GLY	N-CA-C	-6.29	98.27	113.18
1	P	487	GLY	N-CA-C	-6.29	98.27	113.18
1	C	208	LEU	N-CA-C	6.28	124.17	110.80
1	E	208	LEU	N-CA-C	6.28	124.17	110.80
1	G	208	LEU	N-CA-C	6.28	124.17	110.80
1	J	208	LEU	N-CA-C	6.28	124.17	110.80
1	L	208	LEU	N-CA-C	6.28	124.17	110.80
1	N	208	LEU	N-CA-C	6.28	124.17	110.80
1	P	208	LEU	N-CA-C	6.28	124.17	110.80
1	D	487	GLY	N-CA-C	-6.28	98.31	113.18
1	F	487	GLY	N-CA-C	-6.28	98.31	113.18
1	I	487	GLY	N-CA-C	-6.28	98.31	113.18

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	K	487	GLY	N-CA-C	-6.28	98.31	113.18
1	M	487	GLY	N-CA-C	-6.28	98.31	113.18
1	O	487	GLY	N-CA-C	-6.28	98.31	113.18
1	B	487	GLY	N-CA-C	-6.27	98.33	113.18
1	A	208	LEU	N-CA-C	6.26	124.14	110.80
1	H	487	GLY	N-CA-C	-6.26	98.34	113.18
1	A	487	GLY	N-CA-C	-6.26	98.34	113.18
1	B	208	LEU	N-CA-C	6.26	124.13	110.80
1	D	241	ILE	N-CA-C	-6.25	99.52	106.21
1	F	241	ILE	N-CA-C	-6.25	99.52	106.21
1	H	241	ILE	N-CA-C	-6.25	99.52	106.21
1	I	241	ILE	N-CA-C	-6.25	99.52	106.21
1	K	241	ILE	N-CA-C	-6.25	99.52	106.21
1	M	241	ILE	N-CA-C	-6.25	99.52	106.21
1	O	241	ILE	N-CA-C	-6.25	99.52	106.21
1	C	88	GLU	N-CA-C	-6.23	97.52	110.80
1	E	88	GLU	N-CA-C	-6.23	97.52	110.80
1	G	88	GLU	N-CA-C	-6.23	97.52	110.80
1	J	88	GLU	N-CA-C	-6.23	97.52	110.80
1	L	88	GLU	N-CA-C	-6.23	97.52	110.80
1	N	88	GLU	N-CA-C	-6.23	97.52	110.80
1	P	88	GLU	N-CA-C	-6.23	97.52	110.80
1	A	88	GLU	N-CA-C	-6.23	97.54	110.80
1	D	88	GLU	N-CA-C	-6.23	97.54	110.80
1	F	88	GLU	N-CA-C	-6.23	97.54	110.80
1	H	88	GLU	N-CA-C	-6.23	97.54	110.80
1	I	88	GLU	N-CA-C	-6.23	97.54	110.80
1	K	88	GLU	N-CA-C	-6.23	97.54	110.80
1	M	88	GLU	N-CA-C	-6.23	97.54	110.80
1	O	88	GLU	N-CA-C	-6.23	97.54	110.80
1	B	88	GLU	N-CA-C	-6.22	97.55	110.80
1	A	135	LEU	N-CA-C	-6.21	104.51	111.28
1	B	241	ILE	N-CA-C	-6.21	99.57	106.21
1	H	117	PRO	N-CA-C	-6.20	105.90	114.27
1	D	117	PRO	N-CA-C	-6.20	105.91	114.27
1	F	117	PRO	N-CA-C	-6.20	105.91	114.27
1	I	117	PRO	N-CA-C	-6.20	105.91	114.27
1	K	117	PRO	N-CA-C	-6.20	105.91	114.27
1	M	117	PRO	N-CA-C	-6.20	105.91	114.27
1	O	117	PRO	N-CA-C	-6.20	105.91	114.27
1	C	135	LEU	N-CA-C	-6.19	104.53	111.28
1	E	135	LEU	N-CA-C	-6.19	104.53	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	G	135	LEU	N-CA-C	-6.19	104.53	111.28
1	J	135	LEU	N-CA-C	-6.19	104.53	111.28
1	L	135	LEU	N-CA-C	-6.19	104.53	111.28
1	N	135	LEU	N-CA-C	-6.19	104.53	111.28
1	P	135	LEU	N-CA-C	-6.19	104.53	111.28
1	C	117	PRO	N-CA-C	-6.19	105.91	114.27
1	E	117	PRO	N-CA-C	-6.19	105.91	114.27
1	G	117	PRO	N-CA-C	-6.19	105.91	114.27
1	J	117	PRO	N-CA-C	-6.19	105.91	114.27
1	L	117	PRO	N-CA-C	-6.19	105.91	114.27
1	N	117	PRO	N-CA-C	-6.19	105.91	114.27
1	P	117	PRO	N-CA-C	-6.19	105.91	114.27
1	A	241	ILE	N-CA-C	-6.19	99.59	106.21
1	B	117	PRO	N-CA-C	-6.18	105.92	114.27
1	E	241	ILE	N-CA-C	-6.18	99.60	106.21
1	G	241	ILE	N-CA-C	-6.18	99.60	106.21
1	A	117	PRO	N-CA-C	-6.17	105.94	114.27
1	D	135	LEU	N-CA-C	-6.16	104.56	111.28
1	F	135	LEU	N-CA-C	-6.16	104.56	111.28
1	H	135	LEU	N-CA-C	-6.16	104.56	111.28
1	I	135	LEU	N-CA-C	-6.16	104.56	111.28
1	K	135	LEU	N-CA-C	-6.16	104.56	111.28
1	M	135	LEU	N-CA-C	-6.16	104.56	111.28
1	O	135	LEU	N-CA-C	-6.16	104.56	111.28
1	B	318	ALA	N-CA-C	-6.16	104.86	112.38
1	D	318	ALA	N-CA-C	-6.16	104.87	112.38
1	F	318	ALA	N-CA-C	-6.16	104.87	112.38
1	H	318	ALA	N-CA-C	-6.16	104.87	112.38
1	I	318	ALA	N-CA-C	-6.16	104.87	112.38
1	K	318	ALA	N-CA-C	-6.16	104.87	112.38
1	M	318	ALA	N-CA-C	-6.16	104.87	112.38
1	O	318	ALA	N-CA-C	-6.16	104.87	112.38
1	C	241	ILE	N-CA-C	-6.15	99.62	106.21
1	C	318	ALA	N-CA-C	-6.15	104.87	112.38
1	E	318	ALA	N-CA-C	-6.15	104.87	112.38
1	G	318	ALA	N-CA-C	-6.15	104.87	112.38
1	J	241	ILE	N-CA-C	-6.15	99.62	106.21
1	J	318	ALA	N-CA-C	-6.15	104.87	112.38
1	L	241	ILE	N-CA-C	-6.15	99.62	106.21
1	L	318	ALA	N-CA-C	-6.15	104.87	112.38
1	N	241	ILE	N-CA-C	-6.15	99.62	106.21
1	N	318	ALA	N-CA-C	-6.15	104.87	112.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	P	241	ILE	N-CA-C	-6.15	99.62	106.21
1	P	318	ALA	N-CA-C	-6.15	104.87	112.38
1	A	318	ALA	N-CA-C	-6.15	104.88	112.38
1	A	374	GLU	N-CA-C	6.12	123.84	110.80
1	B	179	SER	N-CA-C	-6.12	103.93	111.40
1	C	422	ILE	N-CA-C	6.11	119.61	111.17
1	E	422	ILE	N-CA-C	6.11	119.61	111.17
1	G	422	ILE	N-CA-C	6.11	119.61	111.17
1	J	422	ILE	N-CA-C	6.11	119.61	111.17
1	L	422	ILE	N-CA-C	6.11	119.61	111.17
1	N	422	ILE	N-CA-C	6.11	119.61	111.17
1	P	422	ILE	N-CA-C	6.11	119.61	111.17
1	B	422	ILE	N-CA-C	6.11	119.60	111.17
1	A	422	ILE	N-CA-C	6.11	119.60	111.17
1	C	179	SER	N-CA-C	-6.10	103.95	111.40
1	E	179	SER	N-CA-C	-6.10	103.95	111.40
1	G	179	SER	N-CA-C	-6.10	103.95	111.40
1	J	179	SER	N-CA-C	-6.10	103.95	111.40
1	L	179	SER	N-CA-C	-6.10	103.95	111.40
1	N	179	SER	N-CA-C	-6.10	103.95	111.40
1	P	179	SER	N-CA-C	-6.10	103.95	111.40
1	B	374	GLU	N-CA-C	6.09	123.77	110.80
1	C	374	GLU	N-CA-C	6.09	123.77	110.80
1	D	422	ILE	N-CA-C	6.09	119.57	111.17
1	E	374	GLU	N-CA-C	6.09	123.77	110.80
1	F	422	ILE	N-CA-C	6.09	119.57	111.17
1	G	374	GLU	N-CA-C	6.09	123.77	110.80
1	H	422	ILE	N-CA-C	6.09	119.57	111.17
1	I	422	ILE	N-CA-C	6.09	119.57	111.17
1	J	374	GLU	N-CA-C	6.09	123.77	110.80
1	K	422	ILE	N-CA-C	6.09	119.57	111.17
1	L	374	GLU	N-CA-C	6.09	123.77	110.80
1	M	422	ILE	N-CA-C	6.09	119.57	111.17
1	N	374	GLU	N-CA-C	6.09	123.77	110.80
1	O	422	ILE	N-CA-C	6.09	119.57	111.17
1	P	374	GLU	N-CA-C	6.09	123.77	110.80
1	D	374	GLU	N-CA-C	6.08	123.75	110.80
1	F	374	GLU	N-CA-C	6.08	123.75	110.80
1	H	374	GLU	N-CA-C	6.08	123.75	110.80
1	I	374	GLU	N-CA-C	6.08	123.75	110.80
1	K	374	GLU	N-CA-C	6.08	123.75	110.80
1	M	374	GLU	N-CA-C	6.08	123.75	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	O	374	GLU	N-CA-C	6.08	123.75	110.80
1	A	179	SER	N-CA-C	-6.08	103.99	111.40
1	D	179	SER	N-CA-C	-6.06	104.00	111.40
1	F	179	SER	N-CA-C	-6.06	104.00	111.40
1	H	179	SER	N-CA-C	-6.06	104.00	111.40
1	I	179	SER	N-CA-C	-6.06	104.00	111.40
1	K	179	SER	N-CA-C	-6.06	104.00	111.40
1	M	179	SER	N-CA-C	-6.06	104.00	111.40
1	O	179	SER	N-CA-C	-6.06	104.00	111.40
1	C	45	ASP	N-CA-C	6.03	123.65	110.80
1	D	45	ASP	N-CA-C	6.02	123.63	110.80
1	F	45	ASP	N-CA-C	6.02	123.63	110.80
1	H	45	ASP	N-CA-C	6.02	123.63	110.80
1	I	45	ASP	N-CA-C	6.02	123.63	110.80
1	K	45	ASP	N-CA-C	6.02	123.63	110.80
1	M	45	ASP	N-CA-C	6.02	123.63	110.80
1	O	45	ASP	N-CA-C	6.02	123.63	110.80
1	E	45	ASP	N-CA-C	6.01	123.59	110.80
1	G	45	ASP	N-CA-C	6.01	123.59	110.80
1	J	45	ASP	N-CA-C	6.01	123.59	110.80
1	L	45	ASP	N-CA-C	6.01	123.59	110.80
1	N	45	ASP	N-CA-C	6.01	123.59	110.80
1	P	45	ASP	N-CA-C	6.01	123.59	110.80
1	C	222	GLN	N-CA-C	-5.99	98.04	110.80
1	A	222	GLN	N-CA-C	-5.99	98.05	110.80
1	B	45	ASP	N-CA-C	5.98	123.54	110.80
1	B	222	GLN	N-CA-C	-5.98	98.06	110.80
1	D	386	ASP	N-CA-C	-5.98	104.83	111.71
1	F	386	ASP	N-CA-C	-5.98	104.83	111.71
1	H	386	ASP	N-CA-C	-5.98	104.83	111.71
1	I	386	ASP	N-CA-C	-5.98	104.83	111.71
1	K	386	ASP	N-CA-C	-5.98	104.83	111.71
1	M	386	ASP	N-CA-C	-5.98	104.83	111.71
1	O	386	ASP	N-CA-C	-5.98	104.83	111.71
1	D	222	GLN	N-CA-C	-5.98	98.07	110.80
1	F	222	GLN	N-CA-C	-5.98	98.07	110.80
1	H	222	GLN	N-CA-C	-5.98	98.07	110.80
1	I	222	GLN	N-CA-C	-5.98	98.07	110.80
1	K	222	GLN	N-CA-C	-5.98	98.07	110.80
1	M	222	GLN	N-CA-C	-5.98	98.07	110.80
1	O	222	GLN	N-CA-C	-5.98	98.07	110.80
1	A	45	ASP	N-CA-C	5.98	123.53	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	E	222	GLN	N-CA-C	-5.97	98.08	110.80
1	G	222	GLN	N-CA-C	-5.97	98.08	110.80
1	J	222	GLN	N-CA-C	-5.97	98.08	110.80
1	L	222	GLN	N-CA-C	-5.97	98.08	110.80
1	N	222	GLN	N-CA-C	-5.97	98.08	110.80
1	P	222	GLN	N-CA-C	-5.97	98.08	110.80
1	A	386	ASP	N-CA-C	-5.96	104.85	111.71
1	C	386	ASP	N-CA-C	-5.96	104.85	111.71
1	E	386	ASP	N-CA-C	-5.96	104.85	111.71
1	G	386	ASP	N-CA-C	-5.96	104.85	111.71
1	J	386	ASP	N-CA-C	-5.96	104.85	111.71
1	L	386	ASP	N-CA-C	-5.96	104.85	111.71
1	N	386	ASP	N-CA-C	-5.96	104.85	111.71
1	P	386	ASP	N-CA-C	-5.96	104.85	111.71
1	C	289	GLY	N-CA-C	5.95	125.80	115.62
1	E	289	GLY	N-CA-C	5.95	125.80	115.62
1	G	289	GLY	N-CA-C	5.95	125.80	115.62
1	J	289	GLY	N-CA-C	5.95	125.80	115.62
1	L	289	GLY	N-CA-C	5.95	125.80	115.62
1	N	289	GLY	N-CA-C	5.95	125.80	115.62
1	P	289	GLY	N-CA-C	5.95	125.80	115.62
1	B	386	ASP	N-CA-C	-5.94	104.88	111.71
1	D	289	GLY	N-CA-C	5.92	125.75	115.62
1	F	289	GLY	N-CA-C	5.92	125.75	115.62
1	H	289	GLY	N-CA-C	5.92	125.75	115.62
1	I	289	GLY	N-CA-C	5.92	125.75	115.62
1	K	289	GLY	N-CA-C	5.92	125.75	115.62
1	M	289	GLY	N-CA-C	5.92	125.75	115.62
1	O	289	GLY	N-CA-C	5.92	125.75	115.62
1	B	289	GLY	N-CA-C	5.92	125.74	115.62
1	A	295	GLN	N-CA-C	-5.90	98.24	110.80
1	A	289	GLY	N-CA-C	5.89	125.70	115.62
1	D	295	GLN	N-CA-C	-5.89	98.26	110.80
1	F	295	GLN	N-CA-C	-5.89	98.26	110.80
1	H	295	GLN	N-CA-C	-5.89	98.26	110.80
1	I	295	GLN	N-CA-C	-5.89	98.26	110.80
1	K	295	GLN	N-CA-C	-5.89	98.26	110.80
1	M	295	GLN	N-CA-C	-5.89	98.26	110.80
1	O	295	GLN	N-CA-C	-5.89	98.26	110.80
1	C	295	GLN	N-CA-C	-5.88	98.28	110.80
1	E	295	GLN	N-CA-C	-5.88	98.28	110.80
1	G	295	GLN	N-CA-C	-5.88	98.28	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	J	295	GLN	N-CA-C	-5.88	98.28	110.80
1	L	295	GLN	N-CA-C	-5.88	98.28	110.80
1	N	295	GLN	N-CA-C	-5.88	98.28	110.80
1	P	295	GLN	N-CA-C	-5.88	98.28	110.80
1	B	214	VAL	N-CA-C	5.88	121.56	109.34
1	A	214	VAL	N-CA-C	5.87	121.56	109.34
1	B	295	GLN	N-CA-C	-5.86	98.31	110.80
1	D	214	VAL	N-CA-C	5.86	121.53	109.34
1	F	214	VAL	N-CA-C	5.86	121.53	109.34
1	H	214	VAL	N-CA-C	5.86	121.53	109.34
1	I	214	VAL	N-CA-C	5.86	121.53	109.34
1	K	214	VAL	N-CA-C	5.86	121.53	109.34
1	M	214	VAL	N-CA-C	5.86	121.53	109.34
1	O	214	VAL	N-CA-C	5.86	121.53	109.34
1	C	214	VAL	N-CA-C	5.86	121.52	109.34
1	E	214	VAL	N-CA-C	5.86	121.52	109.34
1	G	214	VAL	N-CA-C	5.86	121.52	109.34
1	J	214	VAL	N-CA-C	5.86	121.52	109.34
1	L	214	VAL	N-CA-C	5.86	121.52	109.34
1	N	214	VAL	N-CA-C	5.86	121.52	109.34
1	P	214	VAL	N-CA-C	5.86	121.52	109.34
1	D	224	PRO	N-CA-C	-5.81	106.60	113.86
1	F	224	PRO	N-CA-C	-5.81	106.60	113.86
1	H	224	PRO	N-CA-C	-5.81	106.60	113.86
1	I	224	PRO	N-CA-C	-5.81	106.60	113.86
1	K	224	PRO	N-CA-C	-5.81	106.60	113.86
1	M	224	PRO	N-CA-C	-5.81	106.60	113.86
1	O	224	PRO	N-CA-C	-5.81	106.60	113.86
1	A	224	PRO	N-CA-C	-5.79	106.62	113.86
1	B	224	PRO	N-CA-C	-5.79	106.62	113.86
1	C	224	PRO	N-CA-C	-5.77	106.64	113.86
1	E	224	PRO	N-CA-C	-5.76	106.65	113.86
1	G	224	PRO	N-CA-C	-5.76	106.65	113.86
1	J	224	PRO	N-CA-C	-5.76	106.65	113.86
1	L	224	PRO	N-CA-C	-5.76	106.65	113.86
1	N	224	PRO	N-CA-C	-5.76	106.65	113.86
1	P	224	PRO	N-CA-C	-5.76	106.65	113.86
1	D	316	LYS	N-CA-C	-5.76	105.14	111.82
1	F	316	LYS	N-CA-C	-5.76	105.14	111.82
1	H	316	LYS	N-CA-C	-5.76	105.14	111.82
1	I	316	LYS	N-CA-C	-5.76	105.14	111.82
1	K	316	LYS	N-CA-C	-5.76	105.14	111.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	M	316	LYS	N-CA-C	-5.76	105.14	111.82
1	O	316	LYS	N-CA-C	-5.76	105.14	111.82
1	C	170	LEU	N-CA-C	5.76	123.07	110.80
1	E	170	LEU	N-CA-C	5.76	123.07	110.80
1	G	170	LEU	N-CA-C	5.76	123.07	110.80
1	J	170	LEU	N-CA-C	5.76	123.07	110.80
1	L	170	LEU	N-CA-C	5.76	123.07	110.80
1	N	170	LEU	N-CA-C	5.76	123.07	110.80
1	P	170	LEU	N-CA-C	5.76	123.07	110.80
1	A	170	LEU	N-CA-C	5.75	123.04	110.80
1	B	316	LYS	N-CA-C	-5.75	105.16	111.82
1	B	170	LEU	N-CA-C	5.74	123.03	110.80
1	H	519	GLU	N-CA-C	5.73	119.59	109.96
1	A	316	LYS	N-CA-C	-5.73	105.17	111.82
1	A	519	GLU	N-CA-C	5.73	119.58	109.96
1	C	316	LYS	N-CA-C	-5.72	105.18	111.82
1	E	316	LYS	N-CA-C	-5.72	105.18	111.82
1	G	316	LYS	N-CA-C	-5.72	105.18	111.82
1	J	316	LYS	N-CA-C	-5.72	105.18	111.82
1	L	316	LYS	N-CA-C	-5.72	105.18	111.82
1	N	316	LYS	N-CA-C	-5.72	105.18	111.82
1	P	316	LYS	N-CA-C	-5.72	105.18	111.82
1	D	170	LEU	N-CA-C	5.72	122.98	110.80
1	F	170	LEU	N-CA-C	5.72	122.98	110.80
1	H	170	LEU	N-CA-C	5.72	122.98	110.80
1	I	170	LEU	N-CA-C	5.72	122.98	110.80
1	K	170	LEU	N-CA-C	5.72	122.98	110.80
1	M	170	LEU	N-CA-C	5.72	122.98	110.80
1	O	170	LEU	N-CA-C	5.72	122.98	110.80
1	H	174	ILE	N-CA-C	5.71	117.23	111.00
1	D	519	GLU	N-CA-C	5.71	119.55	109.96
1	F	519	GLU	N-CA-C	5.71	119.55	109.96
1	I	519	GLU	N-CA-C	5.71	119.55	109.96
1	K	519	GLU	N-CA-C	5.71	119.55	109.96
1	M	519	GLU	N-CA-C	5.71	119.55	109.96
1	O	519	GLU	N-CA-C	5.71	119.55	109.96
1	A	174	ILE	N-CA-C	5.71	117.22	111.00
1	C	174	ILE	N-CA-C	5.71	117.22	111.00
1	E	174	ILE	N-CA-C	5.71	117.22	111.00
1	G	174	ILE	N-CA-C	5.71	117.22	111.00
1	J	174	ILE	N-CA-C	5.71	117.22	111.00
1	L	174	ILE	N-CA-C	5.71	117.22	111.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	174	ILE	N-CA-C	5.71	117.22	111.00
1	P	174	ILE	N-CA-C	5.71	117.22	111.00
1	B	519	GLU	N-CA-C	5.71	119.55	109.96
1	B	523	GLY	N-CA-C	-5.70	104.34	112.55
1	C	523	GLY	N-CA-C	-5.70	104.34	112.55
1	E	523	GLY	N-CA-C	-5.70	104.34	112.55
1	G	523	GLY	N-CA-C	-5.70	104.34	112.55
1	J	523	GLY	N-CA-C	-5.70	104.34	112.55
1	L	523	GLY	N-CA-C	-5.70	104.34	112.55
1	N	523	GLY	N-CA-C	-5.70	104.34	112.55
1	P	523	GLY	N-CA-C	-5.70	104.34	112.55
1	D	523	GLY	N-CA-C	-5.70	104.35	112.55
1	F	523	GLY	N-CA-C	-5.70	104.35	112.55
1	I	523	GLY	N-CA-C	-5.70	104.35	112.55
1	K	523	GLY	N-CA-C	-5.70	104.35	112.55
1	M	523	GLY	N-CA-C	-5.70	104.35	112.55
1	O	523	GLY	N-CA-C	-5.70	104.35	112.55
1	N	519	GLU	N-CA-C	5.69	119.51	109.96
1	H	523	GLY	N-CA-C	-5.68	104.37	112.55
1	D	174	ILE	N-CA-C	5.68	117.19	111.00
1	F	174	ILE	N-CA-C	5.68	117.19	111.00
1	I	174	ILE	N-CA-C	5.68	117.19	111.00
1	K	174	ILE	N-CA-C	5.68	117.19	111.00
1	M	174	ILE	N-CA-C	5.68	117.19	111.00
1	O	174	ILE	N-CA-C	5.68	117.19	111.00
1	B	174	ILE	N-CA-C	5.67	117.18	111.00
1	C	519	GLU	N-CA-C	5.66	119.48	109.96
1	E	519	GLU	N-CA-C	5.66	119.48	109.96
1	G	519	GLU	N-CA-C	5.66	119.48	109.96
1	J	519	GLU	N-CA-C	5.66	119.48	109.96
1	L	519	GLU	N-CA-C	5.66	119.48	109.96
1	P	519	GLU	N-CA-C	5.66	119.48	109.96
1	A	523	GLY	N-CA-C	-5.66	104.40	112.55
1	C	430	VAL	N-CA-C	-5.65	105.01	110.72
1	E	430	VAL	N-CA-C	-5.65	105.01	110.72
1	G	430	VAL	N-CA-C	-5.65	105.01	110.72
1	J	430	VAL	N-CA-C	-5.65	105.01	110.72
1	L	430	VAL	N-CA-C	-5.65	105.01	110.72
1	N	430	VAL	N-CA-C	-5.65	105.01	110.72
1	P	430	VAL	N-CA-C	-5.65	105.01	110.72
1	D	430	VAL	N-CA-C	-5.64	105.02	110.72
1	F	430	VAL	N-CA-C	-5.64	105.02	110.72

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	H	430	VAL	N-CA-C	-5.64	105.02	110.72
1	I	430	VAL	N-CA-C	-5.64	105.02	110.72
1	K	430	VAL	N-CA-C	-5.64	105.02	110.72
1	M	430	VAL	N-CA-C	-5.64	105.02	110.72
1	O	430	VAL	N-CA-C	-5.64	105.02	110.72
1	A	430	VAL	N-CA-C	-5.64	105.02	110.72
1	A	22	ARG	N-CA-C	-5.63	105.24	111.71
1	D	136	LYS	N-CA-C	-5.62	101.53	109.96
1	F	136	LYS	N-CA-C	-5.62	101.53	109.96
1	H	136	LYS	N-CA-C	-5.62	101.53	109.96
1	I	136	LYS	N-CA-C	-5.62	101.53	109.96
1	K	136	LYS	N-CA-C	-5.62	101.53	109.96
1	M	136	LYS	N-CA-C	-5.62	101.53	109.96
1	O	136	LYS	N-CA-C	-5.62	101.53	109.96
1	C	517	ALA	N-CA-C	5.62	122.77	110.80
1	E	517	ALA	N-CA-C	5.62	122.77	110.80
1	G	517	ALA	N-CA-C	5.62	122.77	110.80
1	J	517	ALA	N-CA-C	5.62	122.77	110.80
1	L	517	ALA	N-CA-C	5.62	122.77	110.80
1	P	517	ALA	N-CA-C	5.62	122.77	110.80
1	N	517	ALA	N-CA-C	5.61	122.75	110.80
1	O	22	ARG	N-CA-C	-5.61	105.26	111.71
1	B	517	ALA	N-CA-C	5.61	122.74	110.80
1	H	517	ALA	N-CA-C	5.60	122.73	110.80
1	C	116	HIS	N-CA-C	5.60	122.19	109.81
1	E	116	HIS	N-CA-C	5.60	122.19	109.81
1	G	116	HIS	N-CA-C	5.60	122.19	109.81
1	J	116	HIS	N-CA-C	5.60	122.19	109.81
1	L	116	HIS	N-CA-C	5.60	122.19	109.81
1	N	116	HIS	N-CA-C	5.60	122.19	109.81
1	P	116	HIS	N-CA-C	5.60	122.19	109.81
1	A	136	LYS	N-CA-C	-5.60	101.56	109.96
1	D	517	ALA	N-CA-C	5.60	122.72	110.80
1	F	517	ALA	N-CA-C	5.60	122.72	110.80
1	I	517	ALA	N-CA-C	5.60	122.72	110.80
1	K	517	ALA	N-CA-C	5.60	122.72	110.80
1	M	517	ALA	N-CA-C	5.60	122.72	110.80
1	A	517	ALA	N-CA-C	5.60	122.72	110.80
1	D	22	ARG	N-CA-C	-5.60	105.28	111.71
1	F	22	ARG	N-CA-C	-5.60	105.28	111.71
1	H	22	ARG	N-CA-C	-5.60	105.28	111.71
1	I	22	ARG	N-CA-C	-5.60	105.28	111.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	K	22	ARG	N-CA-C	-5.60	105.28	111.71
1	M	22	ARG	N-CA-C	-5.60	105.28	111.71
1	C	136	LYS	N-CA-C	-5.59	101.57	109.96
1	E	136	LYS	N-CA-C	-5.59	101.57	109.96
1	G	136	LYS	N-CA-C	-5.59	101.57	109.96
1	J	136	LYS	N-CA-C	-5.59	101.57	109.96
1	L	136	LYS	N-CA-C	-5.59	101.57	109.96
1	N	136	LYS	N-CA-C	-5.59	101.57	109.96
1	P	136	LYS	N-CA-C	-5.59	101.57	109.96
1	B	136	LYS	N-CA-C	-5.59	101.57	109.96
1	O	517	ALA	N-CA-C	5.59	122.71	110.80
1	C	22	ARG	N-CA-C	-5.59	105.28	111.71
1	E	22	ARG	N-CA-C	-5.59	105.28	111.71
1	G	22	ARG	N-CA-C	-5.59	105.28	111.71
1	J	22	ARG	N-CA-C	-5.59	105.28	111.71
1	L	22	ARG	N-CA-C	-5.59	105.28	111.71
1	N	22	ARG	N-CA-C	-5.59	105.28	111.71
1	P	22	ARG	N-CA-C	-5.59	105.28	111.71
1	B	430	VAL	N-CA-C	-5.58	105.08	110.72
1	B	22	ARG	N-CA-C	-5.58	105.29	111.71
1	B	116	HIS	N-CA-C	5.58	122.15	109.81
1	B	82	ALA	N-CA-C	-5.58	105.28	111.36
1	D	116	HIS	N-CA-C	5.56	122.10	109.81
1	F	116	HIS	N-CA-C	5.56	122.10	109.81
1	H	116	HIS	N-CA-C	5.56	122.10	109.81
1	I	116	HIS	N-CA-C	5.56	122.10	109.81
1	K	116	HIS	N-CA-C	5.56	122.10	109.81
1	M	116	HIS	N-CA-C	5.56	122.10	109.81
1	O	116	HIS	N-CA-C	5.56	122.10	109.81
1	D	82	ALA	N-CA-C	-5.56	105.30	111.36
1	F	82	ALA	N-CA-C	-5.56	105.30	111.36
1	H	82	ALA	N-CA-C	-5.56	105.30	111.36
1	I	82	ALA	N-CA-C	-5.56	105.30	111.36
1	K	82	ALA	N-CA-C	-5.56	105.30	111.36
1	M	82	ALA	N-CA-C	-5.56	105.30	111.36
1	O	82	ALA	N-CA-C	-5.56	105.30	111.36
1	A	116	HIS	N-CA-C	5.55	122.08	109.81
1	C	82	ALA	N-CA-C	-5.55	105.31	111.36
1	E	82	ALA	N-CA-C	-5.55	105.31	111.36
1	G	82	ALA	N-CA-C	-5.55	105.31	111.36
1	J	82	ALA	N-CA-C	-5.55	105.31	111.36
1	L	82	ALA	N-CA-C	-5.55	105.31	111.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	82	ALA	N-CA-C	-5.55	105.31	111.36
1	P	82	ALA	N-CA-C	-5.55	105.31	111.36
1	D	282	ASN	N-CA-C	5.54	122.61	110.80
1	F	282	ASN	N-CA-C	5.54	122.61	110.80
1	H	282	ASN	N-CA-C	5.54	122.61	110.80
1	I	282	ASN	N-CA-C	5.54	122.61	110.80
1	K	282	ASN	N-CA-C	5.54	122.61	110.80
1	M	282	ASN	N-CA-C	5.54	122.61	110.80
1	O	282	ASN	N-CA-C	5.54	122.61	110.80
1	A	82	ALA	N-CA-C	-5.54	105.32	111.36
1	C	282	ASN	N-CA-C	5.54	122.60	110.80
1	E	282	ASN	N-CA-C	5.54	122.60	110.80
1	G	282	ASN	N-CA-C	5.54	122.60	110.80
1	J	282	ASN	N-CA-C	5.54	122.60	110.80
1	L	282	ASN	N-CA-C	5.54	122.60	110.80
1	N	282	ASN	N-CA-C	5.54	122.60	110.80
1	P	282	ASN	N-CA-C	5.54	122.60	110.80
1	D	253	THR	N-CA-C	5.53	117.75	111.11
1	A	282	ASN	N-CA-C	5.53	122.58	110.80
1	B	282	ASN	N-CA-C	5.53	122.58	110.80
1	I	253	THR	N-CA-C	5.51	117.73	111.11
1	K	253	THR	N-CA-C	5.51	117.73	111.11
1	M	253	THR	N-CA-C	5.51	117.73	111.11
1	O	253	THR	N-CA-C	5.51	117.73	111.11
1	D	375	HIS	N-CA-C	5.51	117.36	111.36
1	F	375	HIS	N-CA-C	5.51	117.36	111.36
1	H	375	HIS	N-CA-C	5.51	117.36	111.36
1	I	375	HIS	N-CA-C	5.51	117.36	111.36
1	K	375	HIS	N-CA-C	5.51	117.36	111.36
1	M	375	HIS	N-CA-C	5.51	117.36	111.36
1	O	375	HIS	N-CA-C	5.51	117.36	111.36
1	H	253	THR	N-CA-C	5.50	117.71	111.11
1	F	253	THR	N-CA-C	5.50	117.71	111.11
1	B	253	THR	N-CA-C	5.49	117.70	111.11
1	C	375	HIS	N-CA-C	5.48	117.33	111.36
1	E	375	HIS	N-CA-C	5.48	117.33	111.36
1	G	375	HIS	N-CA-C	5.48	117.33	111.36
1	J	375	HIS	N-CA-C	5.48	117.33	111.36
1	L	375	HIS	N-CA-C	5.48	117.33	111.36
1	N	375	HIS	N-CA-C	5.48	117.33	111.36
1	P	375	HIS	N-CA-C	5.48	117.33	111.36
1	A	375	HIS	N-CA-C	5.48	117.33	111.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	290	ILE	N-CA-C	5.47	115.45	108.12
1	B	375	HIS	N-CA-C	5.45	117.30	111.36
1	D	343	VAL	N-CA-C	5.45	117.64	108.81
1	F	343	VAL	N-CA-C	5.45	117.64	108.81
1	H	343	VAL	N-CA-C	5.45	117.64	108.81
1	I	343	VAL	N-CA-C	5.45	117.64	108.81
1	K	343	VAL	N-CA-C	5.45	117.64	108.81
1	M	343	VAL	N-CA-C	5.45	117.64	108.81
1	O	343	VAL	N-CA-C	5.45	117.64	108.81
1	B	509	LEU	N-CA-C	-5.44	105.38	112.23
1	B	343	VAL	N-CA-C	5.44	117.62	108.81
1	A	343	VAL	N-CA-C	5.43	117.61	108.81
1	C	343	VAL	N-CA-C	5.43	117.61	108.81
1	E	343	VAL	N-CA-C	5.43	117.61	108.81
1	G	343	VAL	N-CA-C	5.43	117.61	108.81
1	J	343	VAL	N-CA-C	5.43	117.61	108.81
1	L	343	VAL	N-CA-C	5.43	117.61	108.81
1	N	343	VAL	N-CA-C	5.43	117.61	108.81
1	P	343	VAL	N-CA-C	5.43	117.61	108.81
1	A	509	LEU	N-CA-C	-5.43	105.39	112.23
1	C	482	ASP	N-CA-C	5.43	122.36	110.80
1	E	482	ASP	N-CA-C	5.43	122.36	110.80
1	G	482	ASP	N-CA-C	5.43	122.36	110.80
1	J	482	ASP	N-CA-C	5.43	122.36	110.80
1	L	482	ASP	N-CA-C	5.43	122.36	110.80
1	N	482	ASP	N-CA-C	5.43	122.36	110.80
1	P	482	ASP	N-CA-C	5.43	122.36	110.80
1	A	482	ASP	N-CA-C	5.43	122.36	110.80
1	H	509	LEU	N-CA-C	-5.43	105.39	112.23
1	B	482	ASP	N-CA-C	5.42	122.34	110.80
1	D	509	LEU	N-CA-C	-5.42	105.41	112.23
1	F	509	LEU	N-CA-C	-5.42	105.41	112.23
1	I	509	LEU	N-CA-C	-5.42	105.41	112.23
1	K	509	LEU	N-CA-C	-5.42	105.41	112.23
1	M	509	LEU	N-CA-C	-5.42	105.41	112.23
1	O	509	LEU	N-CA-C	-5.42	105.41	112.23
1	D	482	ASP	N-CA-C	5.41	122.33	110.80
1	F	482	ASP	N-CA-C	5.41	122.33	110.80
1	H	482	ASP	N-CA-C	5.41	122.33	110.80
1	I	482	ASP	N-CA-C	5.41	122.33	110.80
1	K	482	ASP	N-CA-C	5.41	122.33	110.80
1	M	482	ASP	N-CA-C	5.41	122.33	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	O	482	ASP	N-CA-C	5.41	122.33	110.80
1	C	509	LEU	N-CA-C	-5.40	105.43	112.23
1	E	509	LEU	N-CA-C	-5.40	105.43	112.23
1	G	509	LEU	N-CA-C	-5.40	105.43	112.23
1	J	509	LEU	N-CA-C	-5.40	105.43	112.23
1	L	509	LEU	N-CA-C	-5.40	105.43	112.23
1	N	509	LEU	N-CA-C	-5.40	105.43	112.23
1	P	509	LEU	N-CA-C	-5.40	105.43	112.23
1	H	185	GLU	N-CA-C	-5.38	106.76	113.38
1	A	66	ARG	N-CA-C	-5.38	105.53	111.71
1	E	66	ARG	N-CA-C	-5.38	105.53	111.71
1	G	66	ARG	N-CA-C	-5.38	105.53	111.71
1	J	66	ARG	N-CA-C	-5.38	105.53	111.71
1	L	66	ARG	N-CA-C	-5.38	105.53	111.71
1	N	66	ARG	N-CA-C	-5.38	105.53	111.71
1	P	66	ARG	N-CA-C	-5.38	105.53	111.71
1	A	185	GLU	N-CA-C	-5.37	106.77	113.38
1	B	185	GLU	N-CA-C	-5.37	106.77	113.38
1	B	420	GLU	N-CA-C	-5.37	105.42	111.28
1	C	66	ARG	N-CA-C	-5.37	105.53	111.71
1	C	420	GLU	N-CA-C	-5.37	105.43	111.28
1	E	420	GLU	N-CA-C	-5.37	105.43	111.28
1	G	420	GLU	N-CA-C	-5.37	105.43	111.28
1	J	420	GLU	N-CA-C	-5.37	105.43	111.28
1	L	420	GLU	N-CA-C	-5.37	105.43	111.28
1	N	420	GLU	N-CA-C	-5.37	105.43	111.28
1	P	420	GLU	N-CA-C	-5.37	105.43	111.28
1	C	185	GLU	N-CA-C	-5.35	106.80	113.38
1	E	185	GLU	N-CA-C	-5.35	106.80	113.38
1	G	185	GLU	N-CA-C	-5.35	106.80	113.38
1	J	185	GLU	N-CA-C	-5.35	106.80	113.38
1	L	185	GLU	N-CA-C	-5.35	106.80	113.38
1	N	185	GLU	N-CA-C	-5.35	106.80	113.38
1	P	185	GLU	N-CA-C	-5.35	106.80	113.38
1	D	185	GLU	N-CA-C	-5.35	106.80	113.38
1	F	185	GLU	N-CA-C	-5.35	106.80	113.38
1	I	185	GLU	N-CA-C	-5.35	106.80	113.38
1	K	185	GLU	N-CA-C	-5.35	106.80	113.38
1	M	185	GLU	N-CA-C	-5.35	106.80	113.38
1	O	185	GLU	N-CA-C	-5.35	106.80	113.38
1	D	420	GLU	N-CA-C	-5.35	105.45	111.28
1	F	420	GLU	N-CA-C	-5.35	105.45	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	H	420	GLU	N-CA-C	-5.35	105.45	111.28
1	I	420	GLU	N-CA-C	-5.35	105.45	111.28
1	K	420	GLU	N-CA-C	-5.35	105.45	111.28
1	M	420	GLU	N-CA-C	-5.35	105.45	111.28
1	O	420	GLU	N-CA-C	-5.35	105.45	111.28
1	J	253	THR	N-CA-C	5.34	117.52	111.11
1	L	253	THR	N-CA-C	5.34	117.52	111.11
1	N	253	THR	N-CA-C	5.34	117.52	111.11
1	P	253	THR	N-CA-C	5.34	117.52	111.11
1	C	253	THR	N-CA-C	5.33	117.51	111.11
1	A	420	GLU	N-CA-C	-5.33	105.47	111.28
1	D	66	ARG	N-CA-C	-5.33	105.58	111.71
1	F	66	ARG	N-CA-C	-5.33	105.58	111.71
1	H	66	ARG	N-CA-C	-5.33	105.58	111.71
1	I	66	ARG	N-CA-C	-5.33	105.58	111.71
1	K	66	ARG	N-CA-C	-5.33	105.58	111.71
1	M	66	ARG	N-CA-C	-5.33	105.58	111.71
1	O	66	ARG	N-CA-C	-5.33	105.58	111.71
1	E	253	THR	N-CA-C	5.31	117.49	111.11
1	B	66	ARG	N-CA-C	-5.30	105.61	111.71
1	A	253	THR	N-CA-C	5.29	117.46	111.11
1	G	253	THR	N-CA-C	5.28	117.45	111.11
1	A	18	ARG	N-CA-C	5.28	119.34	113.01
1	A	254	ASP	N-CA-C	5.25	116.44	109.93
1	B	286	CYS	N-CA-C	5.22	121.92	110.80
1	G	254	ASP	N-CA-C	5.22	116.40	109.93
1	C	18	ARG	N-CA-C	5.22	119.40	113.19
1	E	18	ARG	N-CA-C	5.22	119.40	113.19
1	G	18	ARG	N-CA-C	5.22	119.40	113.19
1	J	18	ARG	N-CA-C	5.22	119.40	113.19
1	L	18	ARG	N-CA-C	5.22	119.40	113.19
1	N	18	ARG	N-CA-C	5.22	119.40	113.19
1	P	18	ARG	N-CA-C	5.22	119.40	113.19
1	C	254	ASP	N-CA-C	5.21	116.39	109.93
1	D	286	CYS	N-CA-C	5.21	121.90	110.80
1	F	286	CYS	N-CA-C	5.21	121.90	110.80
1	H	286	CYS	N-CA-C	5.21	121.90	110.80
1	I	286	CYS	N-CA-C	5.21	121.90	110.80
1	K	286	CYS	N-CA-C	5.21	121.90	110.80
1	M	286	CYS	N-CA-C	5.21	121.90	110.80
1	O	286	CYS	N-CA-C	5.21	121.90	110.80
1	D	407	THR	N-CA-C	-5.21	105.57	112.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	F	407	THR	N-CA-C	-5.21	105.57	112.34
1	H	407	THR	N-CA-C	-5.21	105.57	112.34
1	I	407	THR	N-CA-C	-5.21	105.57	112.34
1	K	407	THR	N-CA-C	-5.21	105.57	112.34
1	M	407	THR	N-CA-C	-5.21	105.57	112.34
1	O	407	THR	N-CA-C	-5.21	105.57	112.34
1	C	286	CYS	N-CA-C	5.21	121.89	110.80
1	E	286	CYS	N-CA-C	5.21	121.89	110.80
1	G	286	CYS	N-CA-C	5.21	121.89	110.80
1	J	286	CYS	N-CA-C	5.21	121.89	110.80
1	L	286	CYS	N-CA-C	5.21	121.89	110.80
1	N	286	CYS	N-CA-C	5.21	121.89	110.80
1	P	286	CYS	N-CA-C	5.21	121.89	110.80
1	A	407	THR	N-CA-C	-5.20	105.58	112.34
1	A	286	CYS	N-CA-C	5.20	121.88	110.80
1	E	254	ASP	N-CA-C	5.20	116.38	109.93
1	O	18	ARG	N-CA-C	5.20	119.38	113.19
1	J	254	ASP	N-CA-C	5.18	116.36	109.93
1	L	254	ASP	N-CA-C	5.18	116.36	109.93
1	N	254	ASP	N-CA-C	5.18	116.36	109.93
1	P	254	ASP	N-CA-C	5.18	116.36	109.93
1	H	18	ARG	N-CA-C	5.17	119.34	113.19
1	B	407	THR	N-CA-C	-5.17	105.63	112.34
1	B	18	ARG	N-CA-C	5.16	119.33	113.19
1	C	407	THR	N-CA-C	-5.16	105.64	112.34
1	E	407	THR	N-CA-C	-5.16	105.64	112.34
1	G	407	THR	N-CA-C	-5.16	105.64	112.34
1	J	407	THR	N-CA-C	-5.16	105.64	112.34
1	L	407	THR	N-CA-C	-5.16	105.64	112.34
1	N	407	THR	N-CA-C	-5.16	105.64	112.34
1	P	407	THR	N-CA-C	-5.16	105.64	112.34
1	D	465	SER	N-CA-C	-5.15	106.54	114.16
1	F	465	SER	N-CA-C	-5.15	106.54	114.16
1	H	246	THR	N-CA-C	5.15	121.76	110.80
1	H	465	SER	N-CA-C	-5.15	106.54	114.16
1	I	465	SER	N-CA-C	-5.15	106.54	114.16
1	K	465	SER	N-CA-C	-5.15	106.54	114.16
1	M	465	SER	N-CA-C	-5.15	106.54	114.16
1	O	465	SER	N-CA-C	-5.15	106.54	114.16
1	A	465	SER	N-CA-C	-5.14	106.55	114.16
1	D	18	ARG	N-CA-C	5.14	119.31	113.19
1	F	18	ARG	N-CA-C	5.14	119.31	113.19

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	I	18	ARG	N-CA-C	5.14	119.31	113.19
1	K	18	ARG	N-CA-C	5.14	119.31	113.19
1	M	18	ARG	N-CA-C	5.14	119.31	113.19
1	B	246	THR	N-CA-C	5.13	121.73	110.80
1	C	465	SER	N-CA-C	-5.13	106.56	114.16
1	E	465	SER	N-CA-C	-5.13	106.56	114.16
1	G	465	SER	N-CA-C	-5.13	106.56	114.16
1	J	465	SER	N-CA-C	-5.13	106.56	114.16
1	L	465	SER	N-CA-C	-5.13	106.56	114.16
1	N	465	SER	N-CA-C	-5.13	106.56	114.16
1	P	465	SER	N-CA-C	-5.13	106.56	114.16
1	D	246	THR	N-CA-C	5.13	121.73	110.80
1	I	246	THR	N-CA-C	5.13	121.73	110.80
1	K	246	THR	N-CA-C	5.13	121.73	110.80
1	M	246	THR	N-CA-C	5.13	121.73	110.80
1	O	246	THR	N-CA-C	5.13	121.73	110.80
1	A	500	GLN	N-CA-C	5.13	116.68	111.14
1	F	246	THR	N-CA-C	5.12	121.70	110.80
1	A	483	MET	N-CA-C	5.12	121.70	110.80
1	B	465	SER	N-CA-C	-5.12	106.59	114.16
1	D	500	GLN	N-CA-C	5.12	116.67	111.14
1	F	500	GLN	N-CA-C	5.12	116.67	111.14
1	H	500	GLN	N-CA-C	5.12	116.67	111.14
1	I	500	GLN	N-CA-C	5.12	116.67	111.14
1	K	500	GLN	N-CA-C	5.12	116.67	111.14
1	M	500	GLN	N-CA-C	5.12	116.67	111.14
1	O	500	GLN	N-CA-C	5.12	116.67	111.14
1	I	255	PRO	N-CA-C	5.11	118.63	110.40
1	K	255	PRO	N-CA-C	5.11	118.63	110.40
1	M	255	PRO	N-CA-C	5.11	118.63	110.40
1	O	255	PRO	N-CA-C	5.11	118.63	110.40
1	C	308	ARG	CA-C-N	5.09	131.13	121.97
1	C	308	ARG	C-N-CA	5.09	131.13	121.97
1	D	308	ARG	CA-C-N	5.09	131.13	121.97
1	D	308	ARG	C-N-CA	5.09	131.13	121.97
1	E	308	ARG	CA-C-N	5.09	131.13	121.97
1	E	308	ARG	C-N-CA	5.09	131.13	121.97
1	F	308	ARG	CA-C-N	5.09	131.13	121.97
1	F	308	ARG	C-N-CA	5.09	131.13	121.97
1	G	308	ARG	CA-C-N	5.09	131.13	121.97
1	G	308	ARG	C-N-CA	5.09	131.13	121.97
1	H	308	ARG	CA-C-N	5.09	131.13	121.97

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	H	308	ARG	C-N-CA	5.09	131.13	121.97
1	I	308	ARG	CA-C-N	5.09	131.13	121.97
1	I	308	ARG	C-N-CA	5.09	131.13	121.97
1	J	308	ARG	CA-C-N	5.09	131.13	121.97
1	J	308	ARG	C-N-CA	5.09	131.13	121.97
1	K	308	ARG	CA-C-N	5.09	131.13	121.97
1	K	308	ARG	C-N-CA	5.09	131.13	121.97
1	L	308	ARG	CA-C-N	5.09	131.13	121.97
1	L	308	ARG	C-N-CA	5.09	131.13	121.97
1	M	308	ARG	CA-C-N	5.09	131.13	121.97
1	M	308	ARG	C-N-CA	5.09	131.13	121.97
1	N	308	ARG	CA-C-N	5.09	131.13	121.97
1	N	308	ARG	C-N-CA	5.09	131.13	121.97
1	O	308	ARG	CA-C-N	5.09	131.13	121.97
1	O	308	ARG	C-N-CA	5.09	131.13	121.97
1	P	308	ARG	CA-C-N	5.09	131.13	121.97
1	P	308	ARG	C-N-CA	5.09	131.13	121.97
1	B	483	MET	N-CA-C	5.09	121.64	110.80
1	D	255	PRO	N-CA-C	5.09	118.59	110.40
1	C	483	MET	N-CA-C	5.08	121.63	110.80
1	D	483	MET	N-CA-C	5.08	121.63	110.80
1	E	483	MET	N-CA-C	5.08	121.63	110.80
1	F	483	MET	N-CA-C	5.08	121.63	110.80
1	G	483	MET	N-CA-C	5.08	121.63	110.80
1	H	483	MET	N-CA-C	5.08	121.63	110.80
1	I	483	MET	N-CA-C	5.08	121.63	110.80
1	J	483	MET	N-CA-C	5.08	121.63	110.80
1	K	483	MET	N-CA-C	5.08	121.63	110.80
1	L	483	MET	N-CA-C	5.08	121.63	110.80
1	M	483	MET	N-CA-C	5.08	121.63	110.80
1	N	483	MET	N-CA-C	5.08	121.63	110.80
1	O	483	MET	N-CA-C	5.08	121.63	110.80
1	P	483	MET	N-CA-C	5.08	121.63	110.80
1	F	255	PRO	N-CA-C	5.08	118.58	110.40
1	H	255	PRO	N-CA-C	5.08	118.58	110.40
1	B	308	ARG	CA-C-N	5.08	131.11	121.97
1	B	308	ARG	C-N-CA	5.08	131.11	121.97
1	A	246	THR	N-CA-C	5.08	121.61	110.80
1	J	246	THR	N-CA-C	5.08	121.61	110.80
1	L	246	THR	N-CA-C	5.08	121.61	110.80
1	N	246	THR	N-CA-C	5.08	121.61	110.80
1	P	246	THR	N-CA-C	5.08	121.61	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	500	GLN	N-CA-C	5.07	116.61	111.14
1	C	246	THR	N-CA-C	5.07	121.59	110.80
1	B	255	PRO	N-CA-C	5.07	118.55	110.40
1	D	249	GLU	N-CA-C	-5.07	100.01	110.80
1	A	308	ARG	CA-C-N	5.06	131.08	121.97
1	A	308	ARG	C-N-CA	5.06	131.08	121.97
1	C	500	GLN	N-CA-C	5.06	116.61	111.14
1	E	500	GLN	N-CA-C	5.06	116.61	111.14
1	G	500	GLN	N-CA-C	5.06	116.61	111.14
1	J	500	GLN	N-CA-C	5.06	116.61	111.14
1	L	500	GLN	N-CA-C	5.06	116.61	111.14
1	N	500	GLN	N-CA-C	5.06	116.61	111.14
1	P	500	GLN	N-CA-C	5.06	116.61	111.14
1	B	249	GLU	N-CA-C	-5.06	100.02	110.80
1	E	67	GLU	N-CA-C	5.06	117.88	109.94
1	F	249	GLU	N-CA-C	-5.06	100.02	110.80
1	G	67	GLU	N-CA-C	5.06	117.88	109.94
1	H	249	GLU	N-CA-C	-5.06	100.02	110.80
1	J	67	GLU	N-CA-C	5.06	117.88	109.94
1	L	67	GLU	N-CA-C	5.06	117.88	109.94
1	N	67	GLU	N-CA-C	5.06	117.88	109.94
1	P	67	GLU	N-CA-C	5.06	117.88	109.94
1	D	294	ALA	N-CA-C	-5.06	102.58	109.71
1	E	246	THR	N-CA-C	5.06	121.57	110.80
1	F	294	ALA	N-CA-C	-5.06	102.58	109.71
1	G	246	THR	N-CA-C	5.06	121.57	110.80
1	H	294	ALA	N-CA-C	-5.06	102.58	109.71
1	I	294	ALA	N-CA-C	-5.06	102.58	109.71
1	K	294	ALA	N-CA-C	-5.06	102.58	109.71
1	M	294	ALA	N-CA-C	-5.06	102.58	109.71
1	O	294	ALA	N-CA-C	-5.06	102.58	109.71
1	C	294	ALA	N-CA-C	-5.05	102.59	109.71
1	E	294	ALA	N-CA-C	-5.05	102.59	109.71
1	G	294	ALA	N-CA-C	-5.05	102.59	109.71
1	J	294	ALA	N-CA-C	-5.05	102.59	109.71
1	L	294	ALA	N-CA-C	-5.05	102.59	109.71
1	N	294	ALA	N-CA-C	-5.05	102.59	109.71
1	P	294	ALA	N-CA-C	-5.05	102.59	109.71
1	B	294	ALA	N-CA-C	-5.04	102.60	109.71
1	A	67	GLU	N-CA-C	5.04	117.85	109.94
1	A	294	ALA	N-CA-C	-5.04	102.61	109.71
1	B	67	GLU	N-CA-C	5.04	117.85	109.94

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	I	249	GLU	N-CA-C	-5.04	100.07	110.80
1	K	249	GLU	N-CA-C	-5.04	100.07	110.80
1	M	249	GLU	N-CA-C	-5.04	100.07	110.80
1	O	249	GLU	N-CA-C	-5.04	100.07	110.80
1	D	67	GLU	N-CA-C	5.04	117.85	109.94
1	F	67	GLU	N-CA-C	5.04	117.85	109.94
1	H	67	GLU	N-CA-C	5.04	117.85	109.94
1	I	67	GLU	N-CA-C	5.04	117.85	109.94
1	K	67	GLU	N-CA-C	5.04	117.85	109.94
1	M	67	GLU	N-CA-C	5.04	117.85	109.94
1	O	67	GLU	N-CA-C	5.04	117.85	109.94
1	C	67	GLU	N-CA-C	5.03	117.84	109.94
1	C	494	VAL	N-CA-C	-5.03	98.89	109.34
1	E	494	VAL	N-CA-C	-5.03	98.89	109.34
1	G	494	VAL	N-CA-C	-5.03	98.89	109.34
1	J	494	VAL	N-CA-C	-5.03	98.89	109.34
1	L	494	VAL	N-CA-C	-5.03	98.89	109.34
1	N	494	VAL	N-CA-C	-5.03	98.89	109.34
1	P	494	VAL	N-CA-C	-5.03	98.89	109.34
1	B	494	VAL	N-CA-C	-5.02	98.89	109.34
1	C	297	TYR	N-CA-C	-5.02	105.88	111.36
1	E	297	TYR	N-CA-C	-5.02	105.88	111.36
1	G	297	TYR	N-CA-C	-5.02	105.88	111.36
1	J	297	TYR	N-CA-C	-5.02	105.88	111.36
1	L	297	TYR	N-CA-C	-5.02	105.88	111.36
1	N	297	TYR	N-CA-C	-5.02	105.88	111.36
1	P	297	TYR	N-CA-C	-5.02	105.88	111.36
1	D	494	VAL	N-CA-C	-5.02	98.90	109.34
1	F	494	VAL	N-CA-C	-5.02	98.90	109.34
1	I	494	VAL	N-CA-C	-5.02	98.90	109.34
1	K	494	VAL	N-CA-C	-5.02	98.90	109.34
1	M	494	VAL	N-CA-C	-5.02	98.90	109.34
1	O	494	VAL	N-CA-C	-5.02	98.90	109.34
1	B	297	TYR	N-CA-C	-5.01	105.89	111.36
1	D	297	TYR	N-CA-C	-5.01	105.89	111.36
1	F	297	TYR	N-CA-C	-5.01	105.89	111.36
1	H	297	TYR	N-CA-C	-5.01	105.89	111.36
1	I	297	TYR	N-CA-C	-5.01	105.89	111.36
1	K	297	TYR	N-CA-C	-5.01	105.89	111.36
1	M	297	TYR	N-CA-C	-5.01	105.89	111.36
1	O	297	TYR	N-CA-C	-5.01	105.89	111.36
1	A	494	VAL	N-CA-C	-5.00	98.94	109.34

There are no chirality outliers.

There are no planarity outliers.

5.2 Too-close contacts

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	3982	0	4119	788	0
1	B	3982	0	4119	788	0
1	C	3982	0	4119	788	0
1	D	3982	0	4119	791	0
1	E	3982	0	4119	786	0
1	F	3982	0	4119	793	0
1	G	3982	0	4119	790	0
1	H	3982	0	4119	804	0
1	I	3982	0	4119	795	0
1	J	3982	0	4119	784	0
1	K	3982	0	4119	794	0
1	L	3982	0	4119	788	0
1	M	3982	0	4119	793	0
1	N	3982	0	4119	788	0
1	O	3982	0	4119	787	0
1	P	3982	0	4119	783	0
All	All	63712	0	65904	11412	0

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 88.

All (11412) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:144:ALA:HB2	1:A:400:ILE:HG13	1.30	1.14
1:P:144:ALA:HB2	1:P:400:ILE:HG13	1.30	1.14
1:C:144:ALA:HB2	1:C:400:ILE:HG13	1.30	1.14
1:N:144:ALA:HB2	1:N:400:ILE:HG13	1.30	1.13
1:C:277:LYS:HG3	1:C:301:GLU:HB3	1.31	1.13
1:F:49:VAL:HG12	1:F:50:ASP:H	1.10	1.13
1:N:277:LYS:HG3	1:N:301:GLU:HB3	1.31	1.13

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:277:LYS:HG3	1:E:301:GLU:HB3	1.31	1.12
1:G:49:VAL:HG12	1:G:50:ASP:H	1.10	1.12
1:K:49:VAL:HG12	1:K:50:ASP:H	1.10	1.12
1:J:49:VAL:HG12	1:J:50:ASP:H	1.10	1.12
1:L:277:LYS:HG3	1:L:301:GLU:HB3	1.31	1.12
1:M:277:LYS:HG3	1:M:301:GLU:HB3	1.31	1.12
1:D:277:LYS:HG3	1:D:301:GLU:HB3	1.31	1.12
1:F:277:LYS:HG3	1:F:301:GLU:HB3	1.31	1.11
1:K:277:LYS:HG3	1:K:301:GLU:HB3	1.31	1.11
1:B:277:LYS:HG3	1:B:301:GLU:HB3	1.31	1.11
1:E:49:VAL:HG12	1:E:50:ASP:H	1.10	1.11
1:E:144:ALA:HB2	1:E:400:ILE:HG13	1.30	1.11
1:G:520:LYS:HE3	1:H:67:GLU:HB3	1.33	1.11
1:I:67:GLU:HB3	1:J:520:LYS:HE3	1.33	1.11
1:M:144:ALA:HB2	1:M:400:ILE:HG13	1.30	1.11
1:A:67:GLU:HB3	1:H:520:LYS:HE3	1.33	1.11
1:F:520:LYS:HE3	1:G:67:GLU:HB3	1.33	1.11
1:H:49:VAL:HG12	1:H:50:ASP:H	1.10	1.11
1:J:67:GLU:HB3	1:K:520:LYS:HE3	1.33	1.11
1:L:49:VAL:HG12	1:L:50:ASP:H	1.10	1.11
1:I:520:LYS:HE3	1:P:67:GLU:HB3	1.33	1.10
1:L:144:ALA:HB2	1:L:400:ILE:HG13	1.30	1.10
1:O:277:LYS:HG3	1:O:301:GLU:HB3	1.31	1.10
1:D:144:ALA:HB2	1:D:400:ILE:HG13	1.30	1.10
1:I:49:VAL:HG12	1:I:50:ASP:H	1.10	1.10
1:L:44:MET:HE2	1:L:58:THR:HG21	1.33	1.10
1:A:10:GLU:HA	1:A:14:ARG:HH22	1.17	1.10
1:E:44:MET:HE2	1:E:58:THR:HG21	1.33	1.10
1:K:44:MET:HE2	1:K:58:THR:HG21	1.33	1.10
1:P:10:GLU:HA	1:P:14:ARG:HH22	1.16	1.10
1:P:277:LYS:HG3	1:P:301:GLU:HB3	1.31	1.10
1:B:10:GLU:HA	1:B:14:ARG:HH22	1.17	1.09
1:B:49:VAL:HG12	1:B:50:ASP:H	1.10	1.09
1:G:144:ALA:HB2	1:G:400:ILE:HG13	1.30	1.09
1:G:277:LYS:HG3	1:G:301:GLU:HB3	1.31	1.09
1:J:144:ALA:HB2	1:J:400:ILE:HG13	1.30	1.09
1:J:277:LYS:HG3	1:J:301:GLU:HB3	1.31	1.09
1:O:10:GLU:HA	1:O:14:ARG:HH22	1.16	1.09
1:E:520:LYS:HE3	1:F:67:GLU:HB3	1.33	1.09
1:F:44:MET:HE2	1:F:58:THR:HG21	1.33	1.09
1:O:144:ALA:HB2	1:O:400:ILE:HG13	1.30	1.09

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:277:LYS:HG3	1:A:301:GLU:HB3	1.31	1.09
1:A:520:LYS:HE3	1:B:67:GLU:HB3	1.33	1.09
1:D:44:MET:HE2	1:D:58:THR:HG21	1.33	1.09
1:H:10:GLU:HA	1:H:14:ARG:HH22	1.16	1.09
1:K:67:GLU:HB3	1:L:520:LYS:HE3	1.33	1.09
1:M:44:MET:HE2	1:M:58:THR:HG21	1.33	1.09
1:C:49:VAL:HG12	1:C:50:ASP:H	1.10	1.09
1:I:10:GLU:HA	1:I:14:ARG:HH22	1.16	1.09
1:G:44:MET:HE2	1:G:58:THR:HG21	1.33	1.09
1:I:277:LYS:HG3	1:I:301:GLU:HB3	1.31	1.09
1:A:49:VAL:HG12	1:A:50:ASP:H	1.10	1.08
1:O:67:GLU:HB3	1:P:520:LYS:HE3	1.33	1.08
1:P:203:ILE:HG22	1:P:204:ASP:H	1.15	1.08
1:B:203:ILE:HG22	1:B:204:ASP:H	1.14	1.08
1:H:277:LYS:HG3	1:H:301:GLU:HB3	1.31	1.08
1:J:44:MET:HE2	1:J:58:THR:HG21	1.33	1.08
1:M:203:ILE:HG22	1:M:204:ASP:H	1.15	1.08
1:N:49:VAL:HG12	1:N:50:ASP:H	1.10	1.08
1:A:203:ILE:HG22	1:A:204:ASP:H	1.15	1.08
1:C:10:GLU:HA	1:C:14:ARG:HH22	1.17	1.08
1:D:203:ILE:HG22	1:D:204:ASP:H	1.15	1.08
1:N:10:GLU:HA	1:N:14:ARG:HH22	1.16	1.08
1:P:49:VAL:HG12	1:P:50:ASP:H	1.10	1.08
1:D:49:VAL:HG12	1:D:50:ASP:H	1.10	1.07
1:G:10:GLU:HA	1:G:14:ARG:HH22	1.16	1.07
1:O:203:ILE:HG22	1:O:204:ASP:H	1.15	1.07
1:I:144:ALA:HB2	1:I:400:ILE:HG13	1.30	1.07
1:K:144:ALA:HB2	1:K:400:ILE:HG13	1.30	1.07
1:E:203:ILE:HG22	1:E:204:ASP:H	1.15	1.07
1:J:10:GLU:HA	1:J:14:ARG:HH22	1.16	1.07
1:F:144:ALA:HB2	1:F:400:ILE:HG13	1.30	1.07
1:H:44:MET:HE2	1:H:58:THR:HG21	1.33	1.07
1:H:203:ILE:HG22	1:H:204:ASP:H	1.15	1.07
1:I:44:MET:HE2	1:I:58:THR:HG21	1.33	1.07
1:K:203:ILE:HG22	1:K:204:ASP:H	1.15	1.07
1:M:49:VAL:HG12	1:M:50:ASP:H	1.10	1.07
1:I:203:ILE:HG22	1:I:204:ASP:H	1.15	1.07
1:J:242:LYS:HD3	1:J:242:LYS:H	1.20	1.07
1:L:203:ILE:HG22	1:L:204:ASP:H	1.15	1.07
1:F:242:LYS:H	1:F:242:LYS:HD3	1.20	1.06
1:G:242:LYS:HD3	1:G:242:LYS:H	1.20	1.06

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:144:ALA:HB2	1:H:400:ILE:HG13	1.30	1.06
1:D:520:LYS:HE3	1:E:67:GLU:HB3	1.33	1.06
1:F:203:ILE:HG22	1:F:204:ASP:H	1.15	1.06
1:K:242:LYS:H	1:K:242:LYS:HD3	1.20	1.06
1:B:144:ALA:HB2	1:B:400:ILE:HG13	1.35	1.06
1:B:520:LYS:HE3	1:C:67:GLU:HB3	1.33	1.06
1:G:203:ILE:HG22	1:G:204:ASP:H	1.15	1.06
1:L:67:GLU:HB3	1:M:520:LYS:HE3	1.33	1.06
1:C:44:MET:HE2	1:C:58:THR:HG21	1.33	1.06
1:D:10:GLU:HA	1:D:14:ARG:HH22	1.16	1.06
1:M:10:GLU:HA	1:M:14:ARG:HH22	1.16	1.06
1:N:44:MET:HE2	1:N:58:THR:HG21	1.33	1.06
1:C:203:ILE:HG22	1:C:204:ASP:H	1.15	1.06
1:J:203:ILE:HG22	1:J:204:ASP:H	1.15	1.06
1:N:203:ILE:HG22	1:N:204:ASP:H	1.15	1.06
1:P:44:MET:HE2	1:P:58:THR:HG21	1.33	1.06
1:A:44:MET:HE2	1:A:58:THR:HG21	1.33	1.05
1:F:10:GLU:HA	1:F:14:ARG:HH22	1.16	1.05
1:N:67:GLU:HB3	1:O:520:LYS:HE3	1.33	1.05
1:K:10:GLU:HA	1:K:14:ARG:HH22	1.16	1.05
1:O:49:VAL:HG12	1:O:50:ASP:H	1.10	1.05
1:I:242:LYS:H	1:I:242:LYS:HD3	1.20	1.05
1:M:67:GLU:HB3	1:N:520:LYS:HE3	1.33	1.05
1:C:520:LYS:HE3	1:D:67:GLU:HB3	1.33	1.05
1:E:242:LYS:H	1:E:242:LYS:HD3	1.20	1.05
1:H:242:LYS:H	1:H:242:LYS:HD3	1.20	1.05
1:K:431:ARG:HH21	1:K:432:ALA:HB2	1.22	1.05
1:E:10:GLU:HA	1:E:14:ARG:HH22	1.16	1.05
1:F:431:ARG:HH21	1:F:432:ALA:HB2	1.22	1.05
1:L:10:GLU:HA	1:L:14:ARG:HH22	1.16	1.05
1:G:431:ARG:HH21	1:G:432:ALA:HB2	1.22	1.04
1:P:431:ARG:HH21	1:P:432:ALA:HB2	1.22	1.04
1:A:431:ARG:HH21	1:A:432:ALA:HB2	1.22	1.04
1:J:431:ARG:HH21	1:J:432:ALA:HB2	1.22	1.04
1:L:242:LYS:HD3	1:L:242:LYS:H	1.20	1.04
1:B:431:ARG:HH21	1:B:432:ALA:HB2	1.22	1.04
1:D:431:ARG:HH21	1:D:432:ALA:HB2	1.22	1.03
1:M:431:ARG:HH21	1:M:432:ALA:HB2	1.22	1.03
1:O:431:ARG:HH21	1:O:432:ALA:HB2	1.22	1.03
1:P:242:LYS:H	1:P:242:LYS:HD3	1.20	1.03
1:A:242:LYS:HD3	1:A:242:LYS:H	1.20	1.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:44:MET:HE2	1:B:58:THR:HG21	1.33	1.03
1:O:44:MET:HE2	1:O:58:THR:HG21	1.33	1.03
1:D:242:LYS:HD3	1:D:242:LYS:H	1.20	1.03
1:M:242:LYS:H	1:M:242:LYS:HD3	1.20	1.02
1:N:242:LYS:H	1:N:242:LYS:HD3	1.20	1.02
1:O:242:LYS:HD3	1:O:242:LYS:H	1.20	1.02
1:C:242:LYS:H	1:C:242:LYS:HD3	1.20	1.01
1:N:431:ARG:HH21	1:N:432:ALA:HB2	1.22	1.01
1:B:242:LYS:HD3	1:B:242:LYS:H	1.20	1.01
1:A:346:ARG:HA	1:A:353:MET:HG3	1.44	1.00
1:C:431:ARG:HH21	1:C:432:ALA:HB2	1.22	1.00
1:P:346:ARG:HA	1:P:353:MET:HG3	1.44	1.00
1:C:346:ARG:HA	1:C:353:MET:HG3	1.44	1.00
1:H:431:ARG:HH21	1:H:432:ALA:HB2	1.22	1.00
1:I:431:ARG:HH21	1:I:432:ALA:HB2	1.22	1.00
1:N:346:ARG:HA	1:N:353:MET:HG3	1.44	1.00
1:E:431:ARG:HH21	1:E:432:ALA:HB2	1.22	1.00
1:L:431:ARG:HH21	1:L:432:ALA:HB2	1.22	0.99
1:F:187:LYS:HZ2	1:G:347:LYS:HG3	1.26	0.99
1:G:346:ARG:HA	1:G:353:MET:HG3	1.44	0.98
1:J:346:ARG:HA	1:J:353:MET:HG3	1.44	0.98
1:A:347:LYS:HG3	1:H:187:LYS:HZ2	1.28	0.98
1:I:187:LYS:HZ2	1:P:347:LYS:HG3	1.28	0.98
1:E:346:ARG:HA	1:E:353:MET:HG3	1.44	0.98
1:J:347:LYS:HG3	1:K:187:LYS:HZ2	1.28	0.98
1:L:346:ARG:HA	1:L:353:MET:HG3	1.44	0.98
1:G:187:LYS:HZ2	1:H:347:LYS:HG3	1.29	0.98
1:H:61:GLY:HA3	1:H:94:THR:HG21	1.46	0.98
1:I:61:GLY:HA3	1:I:94:THR:HG21	1.46	0.98
1:K:61:GLY:HA3	1:K:94:THR:HG21	1.46	0.98
1:G:61:GLY:HA3	1:G:94:THR:HG21	1.46	0.98
1:F:61:GLY:HA3	1:F:94:THR:HG21	1.46	0.97
1:J:61:GLY:HA3	1:J:94:THR:HG21	1.46	0.97
1:K:347:LYS:HG3	1:L:187:LYS:HZ2	1.27	0.97
1:E:187:LYS:HZ2	1:F:347:LYS:HG3	1.27	0.97
1:F:149:ILE:HA	1:F:152:LYS:HD2	1.47	0.97
1:G:149:ILE:HA	1:G:152:LYS:HD2	1.47	0.97
1:J:149:ILE:HA	1:J:152:LYS:HD2	1.47	0.97
1:M:346:ARG:HA	1:M:353:MET:HG3	1.44	0.97
1:O:149:ILE:HA	1:O:152:LYS:HD2	1.47	0.97
1:K:149:ILE:HA	1:K:152:LYS:HD2	1.47	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:346:ARG:HA	1:O:353:MET:HG3	1.44	0.97
1:E:61:GLY:HA3	1:E:94:THR:HG21	1.46	0.97
1:I:347:LYS:HG3	1:J:187:LYS:HZ2	1.30	0.97
1:L:61:GLY:HA3	1:L:94:THR:HG21	1.46	0.97
1:A:149:ILE:HA	1:A:152:LYS:HD2	1.47	0.97
1:B:149:ILE:HA	1:B:152:LYS:HD2	1.47	0.97
1:H:346:ARG:HA	1:H:353:MET:HG3	1.44	0.97
1:D:346:ARG:HA	1:D:353:MET:HG3	1.44	0.97
1:A:187:LYS:HZ2	1:B:347:LYS:HG3	1.29	0.97
1:O:347:LYS:HG3	1:P:187:LYS:HZ2	1.29	0.97
1:N:149:ILE:HA	1:N:152:LYS:HD2	1.47	0.97
1:B:346:ARG:HA	1:B:353:MET:HG3	1.44	0.96
1:I:346:ARG:HA	1:I:353:MET:HG3	1.44	0.96
1:P:149:ILE:HA	1:P:152:LYS:HD2	1.47	0.96
1:C:149:ILE:HA	1:C:152:LYS:HD2	1.47	0.96
1:E:149:ILE:HA	1:E:152:LYS:HD2	1.47	0.96
1:L:149:ILE:HA	1:L:152:LYS:HD2	1.47	0.96
1:D:149:ILE:HA	1:D:152:LYS:HD2	1.47	0.96
1:I:149:ILE:HA	1:I:152:LYS:HD2	1.47	0.96
1:P:61:GLY:HA3	1:P:94:THR:HG21	1.46	0.96
1:H:149:ILE:HA	1:H:152:LYS:HD2	1.47	0.96
1:M:149:ILE:HA	1:M:152:LYS:HD2	1.47	0.96
1:A:61:GLY:HA3	1:A:94:THR:HG21	1.45	0.96
1:L:347:LYS:HG3	1:M:187:LYS:HZ2	1.28	0.96
1:A:99:VAL:HG23	1:A:440:ILE:HG13	1.48	0.95
1:B:187:LYS:HZ2	1:C:347:LYS:HG3	1.29	0.95
1:D:61:GLY:HA3	1:D:94:THR:HG21	1.46	0.95
1:K:227:VAL:HG21	1:K:303:ILE:HB	1.48	0.95
1:M:61:GLY:HA3	1:M:94:THR:HG21	1.46	0.95
1:N:347:LYS:HG3	1:O:187:LYS:HZ2	1.29	0.95
1:J:227:VAL:HG21	1:J:303:ILE:HB	1.48	0.95
1:L:227:VAL:HG21	1:L:303:ILE:HB	1.48	0.95
1:C:187:LYS:HZ2	1:D:347:LYS:HG3	1.28	0.95
1:F:227:VAL:HG21	1:F:303:ILE:HB	1.48	0.95
1:D:187:LYS:HZ2	1:E:347:LYS:HG3	1.29	0.95
1:E:227:VAL:HG21	1:E:303:ILE:HB	1.48	0.95
1:G:227:VAL:HG21	1:G:303:ILE:HB	1.48	0.95
1:P:99:VAL:HG23	1:P:440:ILE:HG13	1.49	0.95
1:K:346:ARG:HA	1:K:353:MET:HG3	1.44	0.94
1:M:347:LYS:HG3	1:N:187:LYS:HZ2	1.29	0.94
1:F:346:ARG:HA	1:F:353:MET:HG3	1.44	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:61:GLY:HA3	1:B:94:THR:HG21	1.45	0.94
1:G:99:VAL:HG23	1:G:440:ILE:HG13	1.49	0.94
1:C:61:GLY:HA3	1:C:94:THR:HG21	1.46	0.94
1:O:61:GLY:HA3	1:O:94:THR:HG21	1.46	0.94
1:J:99:VAL:HG23	1:J:440:ILE:HG13	1.49	0.94
1:B:227:VAL:HG21	1:B:303:ILE:HB	1.48	0.94
1:N:61:GLY:HA3	1:N:94:THR:HG21	1.46	0.94
1:O:227:VAL:HG21	1:O:303:ILE:HB	1.48	0.94
1:D:227:VAL:HG21	1:D:303:ILE:HB	1.48	0.94
1:I:99:VAL:HG23	1:I:440:ILE:HG13	1.49	0.94
1:M:227:VAL:HG21	1:M:303:ILE:HB	1.48	0.94
1:K:99:VAL:HG23	1:K:440:ILE:HG13	1.49	0.94
1:F:99:VAL:HG23	1:F:440:ILE:HG13	1.49	0.94
1:H:99:VAL:HG23	1:H:440:ILE:HG13	1.49	0.94
1:O:224:PRO:HA	1:O:304:VAL:HG11	1.50	0.94
1:F:168:GLU:HB2	1:F:170:LEU:HD22	1.50	0.93
1:H:224:PRO:HA	1:H:304:VAL:HG11	1.50	0.93
1:I:227:VAL:HG21	1:I:303:ILE:HB	1.48	0.93
1:K:168:GLU:HB2	1:K:170:LEU:HD22	1.50	0.93
1:B:224:PRO:HA	1:B:304:VAL:HG11	1.50	0.93
1:H:227:VAL:HG21	1:H:303:ILE:HB	1.48	0.93
1:I:224:PRO:HA	1:I:304:VAL:HG11	1.50	0.93
1:L:168:GLU:HB2	1:L:170:LEU:HD22	1.50	0.93
1:E:168:GLU:HB2	1:E:170:LEU:HD22	1.50	0.93
1:J:168:GLU:HB2	1:J:170:LEU:HD22	1.50	0.93
1:G:168:GLU:HB2	1:G:170:LEU:HD22	1.50	0.93
1:C:227:VAL:HG21	1:C:303:ILE:HB	1.48	0.93
1:N:99:VAL:HG23	1:N:440:ILE:HG13	1.49	0.93
1:N:227:VAL:HG21	1:N:303:ILE:HB	1.48	0.93
1:B:99:VAL:HG23	1:B:440:ILE:HG13	1.49	0.92
1:C:99:VAL:HG23	1:C:440:ILE:HG13	1.49	0.92
1:P:227:VAL:HG21	1:P:303:ILE:HB	1.48	0.92
1:A:57:VAL:HG11	1:A:63:THR:HG21	1.52	0.92
1:A:227:VAL:HG21	1:A:303:ILE:HB	1.48	0.92
1:C:57:VAL:HG11	1:C:63:THR:HG21	1.52	0.92
1:C:224:PRO:HA	1:C:304:VAL:HG11	1.50	0.92
1:N:57:VAL:HG11	1:N:63:THR:HG21	1.52	0.92
1:P:57:VAL:HG11	1:P:63:THR:HG21	1.52	0.92
1:N:224:PRO:HA	1:N:304:VAL:HG11	1.50	0.92
1:D:99:VAL:HG23	1:D:440:ILE:HG13	1.49	0.92
1:D:168:GLU:HB2	1:D:170:LEU:HD22	1.50	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:99:VAL:HG23	1:M:440:ILE:HG13	1.49	0.92
1:O:99:VAL:HG23	1:O:440:ILE:HG13	1.49	0.92
1:M:168:GLU:HB2	1:M:170:LEU:HD22	1.50	0.92
1:B:57:VAL:HG11	1:B:63:THR:HG21	1.52	0.92
1:H:57:VAL:HG11	1:H:63:THR:HG21	1.52	0.92
1:L:99:VAL:HG23	1:L:440:ILE:HG13	1.49	0.92
1:E:99:VAL:HG23	1:E:440:ILE:HG13	1.49	0.92
1:I:168:GLU:HB2	1:I:170:LEU:HD22	1.50	0.92
1:F:480:VAL:HG12	1:F:481:GLU:H	1.35	0.92
1:I:57:VAL:HG11	1:I:63:THR:HG21	1.52	0.92
1:K:480:VAL:HG12	1:K:481:GLU:H	1.35	0.92
1:M:224:PRO:HA	1:M:304:VAL:HG11	1.50	0.92
1:D:224:PRO:HA	1:D:304:VAL:HG11	1.50	0.91
1:H:168:GLU:HB2	1:H:170:LEU:HD22	1.50	0.91
1:M:57:VAL:HG11	1:M:63:THR:HG21	1.52	0.91
1:M:442:ARG:HD2	1:M:452:ALA:HB1	1.52	0.91
1:O:57:VAL:HG11	1:O:63:THR:HG21	1.52	0.91
1:D:57:VAL:HG11	1:D:63:THR:HG21	1.52	0.91
1:D:442:ARG:HD2	1:D:452:ALA:HB1	1.52	0.91
1:F:224:PRO:HA	1:F:304:VAL:HG11	1.50	0.91
1:K:224:PRO:HA	1:K:304:VAL:HG11	1.50	0.91
1:B:103:LEU:HD23	1:B:436:ALA:HB2	1.51	0.91
1:N:141:GLU:HG2	1:N:469:LYS:HD2	1.53	0.91
1:C:141:GLU:HG2	1:C:469:LYS:HD2	1.53	0.91
1:G:517:ALA:HB3	1:H:49:VAL:HG23	1.53	0.91
1:I:49:VAL:HG23	1:J:517:ALA:HB3	1.53	0.91
1:O:103:LEU:HD23	1:O:436:ALA:HB2	1.51	0.91
1:A:224:PRO:HA	1:A:304:VAL:HG11	1.50	0.91
1:B:442:ARG:HD2	1:B:452:ALA:HB1	1.52	0.91
1:F:103:LEU:HD23	1:F:436:ALA:HB2	1.51	0.91
1:K:103:LEU:HD23	1:K:436:ALA:HB2	1.51	0.91
1:D:141:GLU:HG2	1:D:469:LYS:HD2	1.53	0.91
1:D:517:ALA:HB3	1:E:49:VAL:HG23	1.53	0.91
1:K:49:VAL:HG23	1:L:517:ALA:HB3	1.53	0.91
1:L:49:VAL:HG23	1:M:517:ALA:HB3	1.53	0.91
1:O:141:GLU:HG2	1:O:469:LYS:HD2	1.53	0.91
1:O:442:ARG:HD2	1:O:452:ALA:HB1	1.52	0.91
1:P:224:PRO:HA	1:P:304:VAL:HG11	1.50	0.91
1:A:1:MET:HG3	1:H:16:MET:HE2	1.51	0.91
1:B:141:GLU:HG2	1:B:469:LYS:HD2	1.53	0.91
1:E:517:ALA:HB3	1:F:49:VAL:HG23	1.53	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:103:LEU:HD23	1:H:436:ALA:HB2	1.51	0.91
1:J:224:PRO:HA	1:J:304:VAL:HG11	1.50	0.91
1:M:141:GLU:HG2	1:M:469:LYS:HD2	1.53	0.91
1:I:103:LEU:HD23	1:I:436:ALA:HB2	1.51	0.91
1:A:49:VAL:HG23	1:H:517:ALA:HB3	1.53	0.90
1:G:57:VAL:HG11	1:G:63:THR:HG21	1.52	0.90
1:I:517:ALA:HB3	1:P:49:VAL:HG23	1.53	0.90
1:L:103:LEU:HD23	1:L:436:ALA:HB2	1.51	0.90
1:N:168:GLU:HB2	1:N:170:LEU:HD22	1.50	0.90
1:P:103:LEU:HD23	1:P:436:ALA:HB2	1.51	0.90
1:C:168:GLU:HB2	1:C:170:LEU:HD22	1.50	0.90
1:C:517:ALA:HB3	1:D:49:VAL:HG23	1.53	0.90
1:G:224:PRO:HA	1:G:304:VAL:HG11	1.50	0.90
1:L:57:VAL:HG11	1:L:63:THR:HG21	1.52	0.90
1:C:155:MET:HE3	1:C:387:ALA:HA	1.54	0.90
1:J:57:VAL:HG11	1:J:63:THR:HG21	1.52	0.90
1:M:49:VAL:HG23	1:N:517:ALA:HB3	1.53	0.90
1:O:168:GLU:HB2	1:O:170:LEU:HD22	1.50	0.90
1:E:57:VAL:HG11	1:E:63:THR:HG21	1.52	0.90
1:E:103:LEU:HD23	1:E:436:ALA:HB2	1.51	0.90
1:N:103:LEU:HD23	1:N:436:ALA:HB2	1.51	0.90
1:N:155:MET:HE3	1:N:387:ALA:HA	1.54	0.90
1:A:168:GLU:HB2	1:A:170:LEU:HD22	1.50	0.90
1:B:168:GLU:HB2	1:B:170:LEU:HD22	1.50	0.90
1:C:103:LEU:HD23	1:C:436:ALA:HB2	1.51	0.90
1:F:517:ALA:HB3	1:G:49:VAL:HG23	1.53	0.90
1:H:152:LYS:HB3	1:H:174:ILE:HG13	1.53	0.90
1:F:57:VAL:HG11	1:F:63:THR:HG21	1.52	0.90
1:J:49:VAL:HG23	1:K:517:ALA:HB3	1.53	0.90
1:J:152:LYS:HB3	1:J:174:ILE:HG13	1.53	0.90
1:M:103:LEU:HD23	1:M:436:ALA:HB2	1.51	0.90
1:D:103:LEU:HD23	1:D:436:ALA:HB2	1.51	0.90
1:G:152:LYS:HB3	1:G:174:ILE:HG13	1.53	0.90
1:J:103:LEU:HD23	1:J:436:ALA:HB2	1.51	0.90
1:J:480:VAL:HG12	1:J:481:GLU:H	1.35	0.90
1:O:49:VAL:HG23	1:P:517:ALA:HB3	1.53	0.90
1:P:168:GLU:HB2	1:P:170:LEU:HD22	1.50	0.90
1:B:155:MET:HE3	1:B:387:ALA:HA	1.54	0.90
1:G:103:LEU:HD23	1:G:436:ALA:HB2	1.51	0.90
1:I:152:LYS:HB3	1:I:174:ILE:HG13	1.53	0.90
1:K:57:VAL:HG11	1:K:63:THR:HG21	1.52	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:224:PRO:HA	1:L:304:VAL:HG11	1.50	0.90
1:E:224:PRO:HA	1:E:304:VAL:HG11	1.50	0.90
1:G:480:VAL:HG12	1:G:481:GLU:H	1.35	0.90
1:P:152:LYS:HB3	1:P:174:ILE:HG13	1.53	0.90
1:A:152:LYS:HB3	1:A:174:ILE:HG13	1.53	0.90
1:A:480:VAL:HG12	1:A:481:GLU:H	1.35	0.90
1:I:480:VAL:HG12	1:I:481:GLU:H	1.35	0.90
1:L:480:VAL:HG12	1:L:481:GLU:H	1.35	0.90
1:A:103:LEU:HD23	1:A:436:ALA:HB2	1.51	0.89
1:E:480:VAL:HG12	1:E:481:GLU:H	1.35	0.89
1:H:480:VAL:HG12	1:H:481:GLU:H	1.35	0.89
1:B:517:ALA:HB3	1:C:49:VAL:HG23	1.53	0.89
1:N:49:VAL:HG23	1:O:517:ALA:HB3	1.53	0.89
1:O:480:VAL:HG12	1:O:481:GLU:H	1.35	0.89
1:E:442:ARG:HD2	1:E:452:ALA:HB1	1.53	0.89
1:O:155:MET:HE3	1:O:387:ALA:HA	1.54	0.89
1:B:480:VAL:HG12	1:B:481:GLU:H	1.35	0.89
1:H:155:MET:HE3	1:H:387:ALA:HA	1.54	0.89
1:K:442:ARG:HD2	1:K:452:ALA:HB1	1.52	0.89
1:P:480:VAL:HG12	1:P:481:GLU:H	1.35	0.89
1:F:442:ARG:HD2	1:F:452:ALA:HB1	1.52	0.89
1:I:155:MET:HE3	1:I:387:ALA:HA	1.54	0.89
1:M:152:LYS:HB3	1:M:174:ILE:HG13	1.53	0.89
1:F:152:LYS:HB3	1:F:174:ILE:HG13	1.53	0.89
1:L:442:ARG:HD2	1:L:452:ALA:HB1	1.53	0.89
1:A:517:ALA:HB3	1:B:49:VAL:HG23	1.54	0.89
1:D:152:LYS:HB3	1:D:174:ILE:HG13	1.53	0.89
1:K:152:LYS:HB3	1:K:174:ILE:HG13	1.53	0.89
1:N:442:ARG:HD2	1:N:452:ALA:HB1	1.53	0.89
1:A:141:GLU:HG2	1:A:469:LYS:HD2	1.53	0.89
1:G:155:MET:HE3	1:G:387:ALA:HA	1.54	0.89
1:H:442:ARG:HD2	1:H:452:ALA:HB1	1.52	0.89
1:I:442:ARG:HD2	1:I:452:ALA:HB1	1.52	0.89
1:J:155:MET:HE3	1:J:387:ALA:HA	1.54	0.89
1:P:141:GLU:HG2	1:P:469:LYS:HD2	1.53	0.89
1:C:442:ARG:HD2	1:C:452:ALA:HB1	1.53	0.88
1:E:152:LYS:HB3	1:E:174:ILE:HG13	1.53	0.88
1:J:442:ARG:HD2	1:J:452:ALA:HB1	1.53	0.88
1:L:155:MET:HE3	1:L:387:ALA:HA	1.54	0.88
1:P:70:VAL:HG23	1:P:71:GLU:H	1.38	0.88
1:A:49:VAL:HG11	1:H:13:LYS:HD3	1.56	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:70:VAL:HG23	1:A:71:GLU:H	1.38	0.88
1:A:155:MET:HE3	1:A:387:ALA:HA	1.54	0.88
1:D:480:VAL:HG12	1:D:481:GLU:H	1.35	0.88
1:E:141:GLU:HG2	1:E:469:LYS:HD2	1.53	0.88
1:E:213:LEU:HG	1:E:368:LEU:HD11	1.55	0.88
1:G:442:ARG:HD2	1:G:452:ALA:HB1	1.53	0.88
1:I:13:LYS:HD3	1:P:49:VAL:HG11	1.56	0.88
1:L:152:LYS:HB3	1:L:174:ILE:HG13	1.53	0.88
1:D:155:MET:HE3	1:D:387:ALA:HA	1.54	0.88
1:E:155:MET:HE3	1:E:387:ALA:HA	1.54	0.88
1:F:13:LYS:HD3	1:G:49:VAL:HG11	1.56	0.88
1:G:13:LYS:HD3	1:H:49:VAL:HG11	1.56	0.88
1:K:155:MET:HE3	1:K:387:ALA:HA	1.54	0.88
1:L:213:LEU:HG	1:L:368:LEU:HD11	1.55	0.88
1:M:480:VAL:HG12	1:M:481:GLU:H	1.35	0.88
1:P:442:ARG:HD2	1:P:452:ALA:HB1	1.53	0.88
1:F:155:MET:HE3	1:F:387:ALA:HA	1.54	0.88
1:G:141:GLU:HG2	1:G:469:LYS:HD2	1.53	0.88
1:H:70:VAL:HG23	1:H:71:GLU:H	1.38	0.88
1:I:49:VAL:HG11	1:J:13:LYS:HD3	1.56	0.88
1:J:49:VAL:HG11	1:K:13:LYS:HD3	1.56	0.88
1:J:141:GLU:HG2	1:J:469:LYS:HD2	1.53	0.88
1:P:155:MET:HE3	1:P:387:ALA:HA	1.54	0.88
1:I:70:VAL:HG23	1:I:71:GLU:H	1.38	0.88
1:L:141:GLU:HG2	1:L:469:LYS:HD2	1.53	0.88
1:A:13:LYS:HE2	1:A:73:PRO:HD3	1.56	0.88
1:A:222:GLN:NE2	1:H:325:VAL:HG13	1.89	0.88
1:A:442:ARG:HD2	1:A:452:ALA:HB1	1.52	0.88
1:L:70:VAL:HG23	1:L:71:GLU:H	1.38	0.88
1:M:155:MET:HE3	1:M:387:ALA:HA	1.54	0.88
1:N:480:VAL:HG12	1:N:481:GLU:H	1.35	0.88
1:O:222:GLN:NE2	1:P:325:VAL:HG13	1.89	0.88
1:A:325:VAL:HG13	1:B:222:GLN:NE2	1.89	0.88
1:B:325:VAL:HG13	1:C:222:GLN:NE2	1.89	0.88
1:E:70:VAL:HG23	1:E:71:GLU:H	1.38	0.88
1:F:213:LEU:HG	1:F:368:LEU:HD11	1.55	0.88
1:H:141:GLU:HG2	1:H:469:LYS:HD2	1.53	0.88
1:K:213:LEU:HG	1:K:368:LEU:HD11	1.55	0.88
1:M:70:VAL:HG23	1:M:71:GLU:H	1.38	0.88
1:O:49:VAL:HG11	1:P:13:LYS:HD3	1.56	0.88
1:B:152:LYS:HB3	1:B:174:ILE:HG13	1.53	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:70:VAL:HG23	1:D:71:GLU:H	1.38	0.88
1:G:325:VAL:HG13	1:H:222:GLN:NE2	1.89	0.88
1:I:325:VAL:HG13	1:P:222:GLN:NE2	1.89	0.88
1:N:222:GLN:NE2	1:O:325:VAL:HG13	1.89	0.88
1:O:152:LYS:HB3	1:O:174:ILE:HG13	1.53	0.88
1:I:141:GLU:HG2	1:I:469:LYS:HD2	1.53	0.88
1:I:222:GLN:NE2	1:J:325:VAL:HG13	1.89	0.88
1:C:480:VAL:HG12	1:C:481:GLU:H	1.35	0.87
1:D:213:LEU:HG	1:D:368:LEU:HD11	1.55	0.87
1:K:141:GLU:HG2	1:K:469:LYS:HD2	1.53	0.87
1:M:213:LEU:HG	1:M:368:LEU:HD11	1.55	0.87
1:A:213:LEU:HG	1:A:368:LEU:HD11	1.55	0.87
1:C:152:LYS:HB3	1:C:174:ILE:HG13	1.53	0.87
1:P:213:LEU:HG	1:P:368:LEU:HD11	1.55	0.87
1:A:13:LYS:HD3	1:B:49:VAL:HG11	1.56	0.87
1:B:213:LEU:HG	1:B:368:LEU:HD11	1.55	0.87
1:F:141:GLU:HG2	1:F:469:LYS:HD2	1.53	0.87
1:E:13:LYS:HD3	1:F:49:VAL:HG11	1.56	0.87
1:F:325:VAL:HG13	1:G:222:GLN:NE2	1.89	0.87
1:J:222:GLN:NE2	1:K:325:VAL:HG13	1.89	0.87
1:N:70:VAL:HG23	1:N:71:GLU:H	1.38	0.87
1:N:152:LYS:HB3	1:N:174:ILE:HG13	1.53	0.87
1:O:213:LEU:HG	1:O:368:LEU:HD11	1.55	0.87
1:P:13:LYS:HE2	1:P:73:PRO:HD3	1.57	0.87
1:B:13:LYS:HE2	1:B:73:PRO:HD3	1.57	0.87
1:C:70:VAL:HG23	1:C:71:GLU:H	1.38	0.87
1:F:70:VAL:HG23	1:F:71:GLU:H	1.38	0.87
1:K:49:VAL:HG11	1:L:13:LYS:HD3	1.56	0.87
1:K:70:VAL:HG23	1:K:71:GLU:H	1.38	0.87
1:D:13:LYS:HD3	1:E:49:VAL:HG11	1.56	0.87
1:G:213:LEU:HG	1:G:368:LEU:HD11	1.55	0.87
1:J:213:LEU:HG	1:J:368:LEU:HD11	1.55	0.87
1:L:49:VAL:HG11	1:M:13:LYS:HD3	1.56	0.87
1:O:13:LYS:HE2	1:O:73:PRO:HD3	1.57	0.87
1:H:13:LYS:HE2	1:H:73:PRO:HD3	1.57	0.86
1:M:120:VAL:HG22	1:M:124:TYR:HE2	1.40	0.86
1:N:120:VAL:HG22	1:N:124:TYR:HE2	1.40	0.86
1:O:120:VAL:HG22	1:O:124:TYR:HE2	1.40	0.86
1:D:120:VAL:HG22	1:D:124:TYR:HE2	1.40	0.86
1:C:120:VAL:HG22	1:C:124:TYR:HE2	1.40	0.86
1:I:13:LYS:HE2	1:I:73:PRO:HD3	1.57	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:13:LYS:HE2	1:J:73:PRO:HD3	1.57	0.86
1:N:49:VAL:HG11	1:O:13:LYS:HD3	1.56	0.86
1:O:70:VAL:HG23	1:O:71:GLU:H	1.38	0.86
1:B:13:LYS:HD3	1:C:49:VAL:HG11	1.56	0.86
1:B:120:VAL:HG22	1:B:124:TYR:HE2	1.40	0.86
1:C:325:VAL:HG13	1:D:222:GLN:NE2	1.89	0.86
1:H:377:ILE:HD12	1:H:380:VAL:HG23	1.58	0.86
1:I:377:ILE:HD12	1:I:380:VAL:HG23	1.58	0.86
1:K:222:GLN:NE2	1:L:325:VAL:HG13	1.89	0.86
1:E:325:VAL:HG13	1:F:222:GLN:NE2	1.89	0.86
1:G:13:LYS:HE2	1:G:73:PRO:HD3	1.57	0.86
1:A:156:THR:HG21	1:A:170:LEU:HA	1.58	0.86
1:B:156:THR:HG21	1:B:170:LEU:HA	1.57	0.86
1:C:13:LYS:HD3	1:D:49:VAL:HG11	1.56	0.86
1:G:70:VAL:HG23	1:G:71:GLU:H	1.38	0.86
1:J:377:ILE:HD12	1:J:380:VAL:HG23	1.58	0.86
1:M:222:GLN:NE2	1:N:325:VAL:HG13	1.89	0.86
1:P:120:VAL:HG22	1:P:124:TYR:HE2	1.40	0.86
1:B:70:VAL:HG23	1:B:71:GLU:H	1.38	0.86
1:C:213:LEU:HG	1:C:368:LEU:HD11	1.55	0.86
1:G:377:ILE:HD12	1:G:380:VAL:HG23	1.58	0.86
1:L:222:GLN:NE2	1:M:325:VAL:HG13	1.89	0.86
1:M:49:VAL:HG11	1:N:13:LYS:HD3	1.56	0.86
1:P:156:THR:HG21	1:P:170:LEU:HA	1.58	0.86
1:I:120:VAL:HG22	1:I:124:TYR:HE2	1.40	0.86
1:N:213:LEU:HG	1:N:368:LEU:HD11	1.55	0.86
1:A:120:VAL:HG22	1:A:124:TYR:HE2	1.40	0.86
1:D:325:VAL:HG13	1:E:222:GLN:NE2	1.89	0.86
1:J:156:THR:HG21	1:J:170:LEU:HA	1.58	0.86
1:G:156:THR:HG21	1:G:170:LEU:HA	1.58	0.86
1:I:42:LYS:HZ3	1:I:446:GLU:HG3	1.41	0.86
1:J:70:VAL:HG23	1:J:71:GLU:H	1.38	0.86
1:L:120:VAL:HG22	1:L:124:TYR:HE2	1.40	0.86
1:M:156:THR:HG21	1:M:170:LEU:HA	1.58	0.86
1:A:212:VAL:HG22	1:A:356:VAL:HG13	1.58	0.85
1:D:156:THR:HG21	1:D:170:LEU:HA	1.58	0.85
1:F:156:THR:HG21	1:F:170:LEU:HA	1.58	0.85
1:F:326:ILE:HD13	1:F:326:ILE:H	1.41	0.85
1:H:120:VAL:HG22	1:H:124:TYR:HE2	1.40	0.85
1:J:326:ILE:HD13	1:J:326:ILE:H	1.41	0.85
1:K:13:LYS:HE2	1:K:73:PRO:HD3	1.57	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:326:ILE:H	1:K:326:ILE:HD13	1.41	0.85
1:L:156:THR:HG21	1:L:170:LEU:HA	1.58	0.85
1:N:13:LYS:HE2	1:N:73:PRO:HD3	1.57	0.85
1:O:156:THR:HG21	1:O:170:LEU:HA	1.58	0.85
1:P:212:VAL:HG22	1:P:356:VAL:HG13	1.58	0.85
1:C:156:THR:HG21	1:C:170:LEU:HA	1.58	0.85
1:E:120:VAL:HG22	1:E:124:TYR:HE2	1.40	0.85
1:E:156:THR:HG21	1:E:170:LEU:HA	1.58	0.85
1:F:13:LYS:HE2	1:F:73:PRO:HD3	1.57	0.85
1:I:213:LEU:HG	1:I:368:LEU:HD11	1.55	0.85
1:J:308:ARG:HD2	1:J:309:VAL:HG13	1.59	0.85
1:K:156:THR:HG21	1:K:170:LEU:HA	1.58	0.85
1:N:156:THR:HG21	1:N:170:LEU:HA	1.58	0.85
1:C:13:LYS:HE2	1:C:73:PRO:HD3	1.57	0.85
1:E:212:VAL:HG22	1:E:356:VAL:HG13	1.58	0.85
1:G:308:ARG:HD2	1:G:309:VAL:HG13	1.59	0.85
1:G:326:ILE:HD13	1:G:326:ILE:H	1.41	0.85
1:H:156:THR:HG21	1:H:170:LEU:HA	1.58	0.85
1:K:377:ILE:HD12	1:K:380:VAL:HG23	1.58	0.85
1:A:377:ILE:HD12	1:A:380:VAL:HG23	1.58	0.85
1:C:212:VAL:HG22	1:C:356:VAL:HG13	1.58	0.85
1:I:156:THR:HG21	1:I:170:LEU:HA	1.58	0.85
1:K:120:VAL:HG22	1:K:124:TYR:HE2	1.40	0.85
1:F:377:ILE:HD12	1:F:380:VAL:HG23	1.58	0.85
1:H:213:LEU:HG	1:H:368:LEU:HD11	1.55	0.85
1:J:120:VAL:HG22	1:J:124:TYR:HE2	1.40	0.85
1:L:212:VAL:HG22	1:L:356:VAL:HG13	1.58	0.85
1:N:212:VAL:HG22	1:N:356:VAL:HG13	1.58	0.85
1:P:377:ILE:HD12	1:P:380:VAL:HG23	1.58	0.85
1:D:377:ILE:HD12	1:D:380:VAL:HG23	1.58	0.85
1:E:326:ILE:H	1:E:326:ILE:HD13	1.41	0.85
1:F:120:VAL:HG22	1:F:124:TYR:HE2	1.40	0.85
1:F:308:ARG:HD2	1:F:309:VAL:HG13	1.59	0.85
1:G:120:VAL:HG22	1:G:124:TYR:HE2	1.40	0.85
1:L:326:ILE:HD13	1:L:326:ILE:H	1.41	0.85
1:G:212:VAL:HG22	1:G:356:VAL:HG13	1.58	0.85
1:I:326:ILE:HD13	1:I:326:ILE:H	1.41	0.85
1:K:308:ARG:HD2	1:K:309:VAL:HG13	1.59	0.85
1:L:308:ARG:HD2	1:L:309:VAL:HG13	1.59	0.85
1:M:377:ILE:HD12	1:M:380:VAL:HG23	1.58	0.85
1:N:377:ILE:HD12	1:N:380:VAL:HG23	1.58	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:377:ILE:HD12	1:C:380:VAL:HG23	1.58	0.85
1:D:329:ILE:HG23	1:D:330:LYS:H	1.42	0.85
1:E:308:ARG:HD2	1:E:309:VAL:HG13	1.59	0.85
1:J:212:VAL:HG22	1:J:356:VAL:HG13	1.58	0.85
1:L:412:SER:HA	1:L:415:LEU:HD22	1.59	0.85
1:E:13:LYS:HE2	1:E:73:PRO:HD3	1.57	0.85
1:E:412:SER:HA	1:E:415:LEU:HD22	1.59	0.85
1:H:326:ILE:H	1:H:326:ILE:HD13	1.41	0.85
1:K:212:VAL:HG22	1:K:356:VAL:HG13	1.58	0.85
1:L:13:LYS:HE2	1:L:73:PRO:HD3	1.57	0.85
1:M:329:ILE:HG23	1:M:330:LYS:H	1.42	0.85
1:M:412:SER:HA	1:M:415:LEU:HD22	1.59	0.85
1:D:412:SER:HA	1:D:415:LEU:HD22	1.59	0.84
1:I:308:ARG:HD2	1:I:309:VAL:HG13	1.59	0.84
1:F:212:VAL:HG22	1:F:356:VAL:HG13	1.58	0.84
1:H:308:ARG:HD2	1:H:309:VAL:HG13	1.59	0.84
1:P:326:ILE:H	1:P:326:ILE:HD13	1.41	0.84
1:A:308:ARG:HD2	1:A:309:VAL:HG13	1.58	0.84
1:H:329:ILE:HG23	1:H:330:LYS:H	1.42	0.84
1:M:212:VAL:HG22	1:M:356:VAL:HG13	1.58	0.84
1:D:13:LYS:HE2	1:D:73:PRO:HD3	1.57	0.84
1:G:329:ILE:HG23	1:G:330:LYS:H	1.42	0.84
1:K:412:SER:HA	1:K:415:LEU:HD22	1.59	0.84
1:O:326:ILE:HD13	1:O:326:ILE:H	1.41	0.84
1:A:326:ILE:HD13	1:A:326:ILE:H	1.41	0.84
1:B:329:ILE:HG23	1:B:330:LYS:H	1.42	0.84
1:D:212:VAL:HG22	1:D:356:VAL:HG13	1.58	0.84
1:F:412:SER:HA	1:F:415:LEU:HD22	1.59	0.84
1:I:329:ILE:HG23	1:I:330:LYS:H	1.42	0.84
1:K:329:ILE:HG23	1:K:330:LYS:H	1.42	0.84
1:M:13:LYS:HE2	1:M:73:PRO:HD3	1.57	0.84
1:J:329:ILE:HG23	1:J:330:LYS:H	1.42	0.84
1:M:326:ILE:H	1:M:326:ILE:HD13	1.41	0.84
1:N:412:SER:HA	1:N:415:LEU:HD22	1.59	0.84
1:O:329:ILE:HG23	1:O:330:LYS:H	1.42	0.84
1:C:412:SER:HA	1:C:415:LEU:HD22	1.59	0.84
1:D:308:ARG:HD2	1:D:309:VAL:HG13	1.59	0.84
1:D:326:ILE:HD13	1:D:326:ILE:H	1.41	0.84
1:F:329:ILE:HG23	1:F:330:LYS:H	1.42	0.84
1:M:308:ARG:HD2	1:M:309:VAL:HG13	1.59	0.84
1:N:329:ILE:HG23	1:N:330:LYS:H	1.42	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:212:VAL:HG22	1:O:356:VAL:HG13	1.58	0.84
1:A:329:ILE:HG23	1:A:330:LYS:H	1.42	0.84
1:B:49:VAL:HG12	1:B:50:ASP:N	1.92	0.84
1:B:326:ILE:H	1:B:326:ILE:HD13	1.41	0.84
1:C:329:ILE:HG23	1:C:330:LYS:H	1.42	0.84
1:J:347:LYS:HB3	1:K:187:LYS:HD3	1.60	0.84
1:N:326:ILE:HD13	1:N:326:ILE:H	1.41	0.84
1:P:308:ARG:HD2	1:P:309:VAL:HG13	1.59	0.84
1:P:329:ILE:HG23	1:P:330:LYS:H	1.42	0.84
1:F:187:LYS:HD3	1:G:347:LYS:HB3	1.60	0.84
1:G:412:SER:HA	1:G:415:LEU:HD22	1.59	0.84
1:I:212:VAL:HG22	1:I:356:VAL:HG13	1.58	0.84
1:J:412:SER:HA	1:J:415:LEU:HD22	1.59	0.84
1:K:410:GLU:HB2	1:K:468:ASN:HD21	1.43	0.84
1:B:187:LYS:HD3	1:C:347:LYS:HB3	1.60	0.83
1:B:212:VAL:HG22	1:B:356:VAL:HG13	1.58	0.83
1:B:308:ARG:HD2	1:B:309:VAL:HG13	1.59	0.83
1:C:326:ILE:HD13	1:C:326:ILE:H	1.41	0.83
1:E:377:ILE:HD12	1:E:380:VAL:HG23	1.58	0.83
1:F:410:GLU:HB2	1:F:468:ASN:HD21	1.43	0.83
1:L:377:ILE:HD12	1:L:380:VAL:HG23	1.58	0.83
1:C:49:VAL:HG12	1:C:50:ASP:N	1.93	0.83
1:H:212:VAL:HG22	1:H:356:VAL:HG13	1.58	0.83
1:N:49:VAL:HG12	1:N:50:ASP:N	1.93	0.83
1:N:347:LYS:HB3	1:O:187:LYS:HD3	1.60	0.83
1:B:10:GLU:HG3	1:B:14:ARG:HH12	1.44	0.83
1:E:187:LYS:HD3	1:F:347:LYS:HB3	1.61	0.83
1:C:308:ARG:HD2	1:C:309:VAL:HG13	1.59	0.83
1:K:347:LYS:HB3	1:L:187:LYS:HD3	1.61	0.83
1:M:174:ILE:HD13	1:M:177:ALA:HB3	1.60	0.83
1:N:308:ARG:HD2	1:N:309:VAL:HG13	1.59	0.83
1:O:10:GLU:HG3	1:O:14:ARG:HH12	1.44	0.83
1:C:187:LYS:HD3	1:D:347:LYS:HB3	1.61	0.83
1:D:174:ILE:HD13	1:D:177:ALA:HB3	1.60	0.83
1:L:174:ILE:HD13	1:L:177:ALA:HB3	1.60	0.83
1:M:347:LYS:HB3	1:N:187:LYS:HD3	1.61	0.83
1:N:174:ILE:HD13	1:N:177:ALA:HB3	1.60	0.83
1:A:347:LYS:HB3	1:H:187:LYS:HD3	1.60	0.83
1:C:174:ILE:HD13	1:C:177:ALA:HB3	1.60	0.83
1:E:174:ILE:HD13	1:E:177:ALA:HB3	1.60	0.83
1:G:10:GLU:HG3	1:G:14:ARG:HH12	1.44	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:187:LYS:HD3	1:P:347:LYS:HB3	1.60	0.83
1:I:347:LYS:HB3	1:J:187:LYS:HD3	1.61	0.83
1:N:42:LYS:HZ3	1:N:446:GLU:HG3	1.43	0.83
1:G:187:LYS:HD3	1:H:347:LYS:HB3	1.61	0.83
1:G:410:GLU:HB2	1:G:468:ASN:HD21	1.43	0.83
1:J:10:GLU:HG3	1:J:14:ARG:HH12	1.44	0.83
1:O:308:ARG:HD2	1:O:309:VAL:HG13	1.59	0.83
1:O:377:ILE:HD12	1:O:380:VAL:HG23	1.58	0.83
1:B:377:ILE:HD12	1:B:380:VAL:HG23	1.58	0.83
1:F:85:GLN:HE22	1:F:497:GLN:HB3	1.44	0.83
1:H:410:GLU:HB2	1:H:468:ASN:HD21	1.43	0.83
1:I:410:GLU:HB2	1:I:468:ASN:HD21	1.43	0.83
1:K:85:GLN:HE22	1:K:497:GLN:HB3	1.44	0.83
1:L:329:ILE:HG23	1:L:330:LYS:H	1.42	0.83
1:L:347:LYS:HB3	1:M:187:LYS:HD3	1.60	0.83
1:M:10:GLU:HG3	1:M:14:ARG:HH12	1.44	0.83
1:D:10:GLU:HG3	1:D:14:ARG:HH12	1.44	0.83
1:D:187:LYS:HD3	1:E:347:LYS:HB3	1.60	0.83
1:J:85:GLN:HE22	1:J:497:GLN:HB3	1.44	0.83
1:J:410:GLU:HB2	1:J:468:ASN:HD21	1.43	0.83
1:K:10:GLU:HG3	1:K:14:ARG:HH12	1.44	0.83
1:O:347:LYS:HB3	1:P:187:LYS:HD3	1.61	0.83
1:A:187:LYS:HD3	1:B:347:LYS:HB3	1.60	0.83
1:F:174:ILE:HD13	1:F:177:ALA:HB3	1.60	0.83
1:H:412:SER:HA	1:H:415:LEU:HD22	1.59	0.83
1:I:412:SER:HA	1:I:415:LEU:HD22	1.59	0.83
1:B:412:SER:HA	1:B:415:LEU:HD22	1.59	0.82
1:E:329:ILE:HG23	1:E:330:LYS:H	1.42	0.82
1:F:10:GLU:HG3	1:F:14:ARG:HH12	1.44	0.82
1:G:85:GLN:HE22	1:G:497:GLN:HB3	1.44	0.82
1:H:180:ALA:HA	1:H:363:LYS:HD2	1.61	0.82
1:K:174:ILE:HD13	1:K:177:ALA:HB3	1.60	0.82
1:O:412:SER:HA	1:O:415:LEU:HD22	1.59	0.82
1:D:410:GLU:HB2	1:D:468:ASN:HD21	1.43	0.82
1:E:85:GLN:HE22	1:E:497:GLN:HB3	1.44	0.82
1:I:85:GLN:HE22	1:I:497:GLN:HB3	1.44	0.82
1:I:180:ALA:HA	1:I:363:LYS:HD2	1.61	0.82
1:C:29:ARG:HH21	1:C:105:ARG:HG3	1.45	0.82
1:E:180:ALA:HA	1:E:363:LYS:HD2	1.61	0.82
1:L:85:GLN:HE22	1:L:497:GLN:HB3	1.44	0.82
1:L:180:ALA:HA	1:L:363:LYS:HD2	1.61	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:10:GLU:HG3	1:P:14:ARG:HH12	1.44	0.82
1:P:85:GLN:HE22	1:P:497:GLN:HB3	1.44	0.82
1:A:85:GLN:HE22	1:A:497:GLN:HB3	1.44	0.82
1:B:234:LEU:HD21	1:B:336:ASP:HA	1.61	0.82
1:C:85:GLN:HE22	1:C:497:GLN:HB3	1.44	0.82
1:H:85:GLN:HE22	1:H:497:GLN:HB3	1.44	0.82
1:M:410:GLU:HB2	1:M:468:ASN:HD21	1.43	0.82
1:N:29:ARG:HH21	1:N:105:ARG:HG3	1.45	0.82
1:N:85:GLN:HE22	1:N:497:GLN:HB3	1.44	0.82
1:O:234:LEU:HD21	1:O:336:ASP:HA	1.61	0.82
1:A:29:ARG:HH21	1:A:105:ARG:HG3	1.44	0.82
1:G:174:ILE:HD13	1:G:177:ALA:HB3	1.60	0.82
1:G:252:ILE:HG12	1:H:255:PRO:HB3	1.61	0.82
1:J:174:ILE:HD13	1:J:177:ALA:HB3	1.60	0.82
1:A:10:GLU:HG3	1:A:14:ARG:HH12	1.44	0.82
1:B:174:ILE:HD13	1:B:177:ALA:HB3	1.60	0.82
1:G:10:GLU:CA	1:G:14:ARG:HH22	1.92	0.82
1:H:10:GLU:CA	1:H:14:ARG:HH22	1.92	0.82
1:I:255:PRO:HB3	1:J:252:ILE:HG12	1.61	0.82
1:J:180:ALA:HA	1:J:363:LYS:HD2	1.61	0.82
1:N:10:GLU:CA	1:N:14:ARG:HH22	1.92	0.82
1:O:174:ILE:HD13	1:O:177:ALA:HB3	1.60	0.82
1:P:29:ARG:HH21	1:P:105:ARG:HG3	1.45	0.82
1:C:10:GLU:CA	1:C:14:ARG:HH22	1.92	0.82
1:H:29:ARG:HH21	1:H:105:ARG:HG3	1.44	0.82
1:I:10:GLU:CA	1:I:14:ARG:HH22	1.92	0.82
1:J:10:GLU:CA	1:J:14:ARG:HH22	1.92	0.82
1:M:85:GLN:HE22	1:M:497:GLN:HB3	1.44	0.82
1:O:85:GLN:HE22	1:O:497:GLN:HB3	1.44	0.82
1:O:258:LEU:HD22	1:P:251:ARG:HH11	1.45	0.82
1:E:203:ILE:HG22	1:E:204:ASP:N	1.95	0.82
1:G:180:ALA:HA	1:G:363:LYS:HD2	1.61	0.82
1:I:29:ARG:HH21	1:I:105:ARG:HG3	1.44	0.82
1:K:203:ILE:HG22	1:K:204:ASP:N	1.95	0.82
1:M:10:GLU:CA	1:M:14:ARG:HH22	1.92	0.82
1:O:10:GLU:CA	1:O:14:ARG:HH22	1.92	0.82
1:P:10:GLU:CA	1:P:14:ARG:HH22	1.92	0.82
1:P:410:GLU:HB2	1:P:468:ASN:HD21	1.43	0.82
1:A:10:GLU:CA	1:A:14:ARG:HH22	1.93	0.82
1:A:234:LEU:HD21	1:A:336:ASP:HA	1.61	0.82
1:B:10:GLU:CA	1:B:14:ARG:HH22	1.93	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:234:LEU:HD21	1:C:336:ASP:HA	1.61	0.82
1:F:203:ILE:HG22	1:F:204:ASP:N	1.95	0.82
1:N:234:LEU:HD21	1:N:336:ASP:HA	1.61	0.82
1:P:412:SER:HA	1:P:415:LEU:HD22	1.59	0.82
1:B:85:GLN:HE22	1:B:497:GLN:HB3	1.44	0.82
1:D:10:GLU:CA	1:D:14:ARG:HH22	1.92	0.82
1:D:85:GLN:HE22	1:D:497:GLN:HB3	1.44	0.82
1:N:38:THR:HA	1:N:42:LYS:HB3	1.62	0.82
1:A:410:GLU:HB2	1:A:468:ASN:HD21	1.44	0.81
1:A:412:SER:HA	1:A:415:LEU:HD22	1.59	0.81
1:B:64:ILE:HG23	1:B:65:LEU:HD22	1.62	0.81
1:C:38:THR:HA	1:C:42:LYS:HB3	1.62	0.81
1:E:10:GLU:HG3	1:E:14:ARG:HH12	1.44	0.81
1:F:10:GLU:CA	1:F:14:ARG:HH22	1.92	0.81
1:G:10:GLU:HA	1:G:14:ARG:NH2	1.95	0.81
1:J:10:GLU:HA	1:J:14:ARG:NH2	1.95	0.81
1:M:258:LEU:HD22	1:N:251:ARG:HH11	1.45	0.81
1:O:64:ILE:HG23	1:O:65:LEU:HD22	1.62	0.81
1:P:234:LEU:HD21	1:P:336:ASP:HA	1.61	0.81
1:B:180:ALA:HA	1:B:363:LYS:HD2	1.61	0.81
1:C:251:ARG:HH11	1:D:258:LEU:HD22	1.45	0.81
1:F:38:THR:HA	1:F:42:LYS:HB3	1.62	0.81
1:F:180:ALA:HA	1:F:363:LYS:HD2	1.61	0.81
1:K:38:THR:HA	1:K:42:LYS:HB3	1.62	0.81
1:K:258:LEU:HD22	1:L:251:ARG:HH11	1.45	0.81
1:B:29:ARG:HH21	1:B:105:ARG:HG3	1.45	0.81
1:D:38:THR:HA	1:D:42:LYS:HB3	1.62	0.81
1:F:29:ARG:HH21	1:F:105:ARG:HG3	1.44	0.81
1:G:29:ARG:HH21	1:G:105:ARG:HG3	1.45	0.81
1:K:10:GLU:CA	1:K:14:ARG:HH22	1.92	0.81
1:L:10:GLU:HG3	1:L:14:ARG:HH12	1.44	0.81
1:M:38:THR:HA	1:M:42:LYS:HB3	1.62	0.81
1:N:64:ILE:HG23	1:N:65:LEU:HD22	1.62	0.81
1:N:410:GLU:HB2	1:N:468:ASN:HD21	1.43	0.81
1:O:10:GLU:HA	1:O:14:ARG:NH2	1.95	0.81
1:O:29:ARG:HH21	1:O:105:ARG:HG3	1.44	0.81
1:O:410:GLU:HB2	1:O:468:ASN:HD21	1.43	0.81
1:D:29:ARG:HH21	1:D:105:ARG:HG3	1.44	0.81
1:E:251:ARG:HH11	1:F:258:LEU:HD22	1.45	0.81
1:G:234:LEU:HD21	1:G:336:ASP:HA	1.61	0.81
1:J:29:ARG:HH21	1:J:105:ARG:HG3	1.45	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:203:ILE:HG22	1:J:204:ASP:N	1.95	0.81
1:J:234:LEU:HD21	1:J:336:ASP:HA	1.61	0.81
1:K:180:ALA:HA	1:K:363:LYS:HD2	1.61	0.81
1:L:10:GLU:CA	1:L:14:ARG:HH22	1.92	0.81
1:M:10:GLU:HA	1:M:14:ARG:NH2	1.95	0.81
1:A:252:ILE:HG12	1:B:255:PRO:HB3	1.61	0.81
1:B:10:GLU:HA	1:B:14:ARG:NH2	1.96	0.81
1:B:410:GLU:HB2	1:B:468:ASN:HD21	1.43	0.81
1:C:410:GLU:HB2	1:C:468:ASN:HD21	1.43	0.81
1:D:10:GLU:HA	1:D:14:ARG:NH2	1.95	0.81
1:E:38:THR:HA	1:E:42:LYS:HB3	1.62	0.81
1:G:38:THR:HA	1:G:42:LYS:HB3	1.62	0.81
1:H:10:GLU:HA	1:H:14:ARG:NH2	1.95	0.81
1:I:174:ILE:HD13	1:I:177:ALA:HB3	1.60	0.81
1:J:38:THR:HA	1:J:42:LYS:HB3	1.62	0.81
1:B:38:THR:HA	1:B:42:LYS:HB3	1.63	0.81
1:C:64:ILE:HG23	1:C:65:LEU:HD22	1.62	0.81
1:E:10:GLU:CA	1:E:14:ARG:HH22	1.92	0.81
1:E:29:ARG:HH21	1:E:105:ARG:HG3	1.45	0.81
1:E:234:LEU:HD21	1:E:336:ASP:HA	1.61	0.81
1:G:203:ILE:HG22	1:G:204:ASP:N	1.95	0.81
1:H:174:ILE:HD13	1:H:177:ALA:HB3	1.60	0.81
1:I:258:LEU:HD22	1:J:251:ARG:HH11	1.45	0.81
1:K:29:ARG:HH21	1:K:105:ARG:HG3	1.44	0.81
1:L:38:THR:HA	1:L:42:LYS:HB3	1.62	0.81
1:L:234:LEU:HD21	1:L:336:ASP:HA	1.61	0.81
1:M:29:ARG:HH21	1:M:105:ARG:HG3	1.44	0.81
1:O:38:THR:HA	1:O:42:LYS:HB3	1.62	0.81
1:O:180:ALA:HA	1:O:363:LYS:HD2	1.61	0.81
1:C:10:GLU:HG3	1:C:14:ARG:HH12	1.44	0.81
1:H:10:GLU:HG3	1:H:14:ARG:HH12	1.44	0.81
1:I:10:GLU:HA	1:I:14:ARG:NH2	1.95	0.81
1:I:510:LEU:HD13	1:I:511:ARG:H	1.45	0.81
1:L:410:GLU:HB2	1:L:468:ASN:HD21	1.43	0.81
1:P:64:ILE:HG23	1:P:65:LEU:HD22	1.62	0.81
1:A:64:ILE:HG23	1:A:65:LEU:HD22	1.62	0.81
1:A:174:ILE:HD13	1:A:177:ALA:HB3	1.60	0.81
1:A:251:ARG:HH11	1:B:258:LEU:HD22	1.46	0.81
1:C:10:GLU:HA	1:C:14:ARG:NH2	1.95	0.81
1:G:212:VAL:CG1	1:G:356:VAL:HG22	2.11	0.81
1:J:212:VAL:CG1	1:J:356:VAL:HG22	2.11	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:29:ARG:HH21	1:L:105:ARG:HG3	1.45	0.81
1:P:212:VAL:CG1	1:P:356:VAL:HG22	2.11	0.81
1:A:212:VAL:CG1	1:A:356:VAL:HG22	2.11	0.81
1:C:252:ILE:HG12	1:D:255:PRO:HB3	1.61	0.81
1:E:410:GLU:HB2	1:E:468:ASN:HD21	1.43	0.81
1:H:212:VAL:CG1	1:H:356:VAL:HG22	2.11	0.81
1:I:10:GLU:HG3	1:I:14:ARG:HH12	1.44	0.81
1:I:212:VAL:CG1	1:I:356:VAL:HG22	2.11	0.81
1:M:255:PRO:HB3	1:N:252:ILE:HG12	1.61	0.81
1:O:255:PRO:HB3	1:P:252:ILE:HG12	1.61	0.81
1:P:510:LEU:HD13	1:P:511:ARG:H	1.45	0.81
1:A:233:ALA:HB3	1:A:283:VAL:HG12	1.63	0.81
1:A:510:LEU:HD13	1:A:511:ARG:H	1.45	0.81
1:F:212:VAL:CG1	1:F:356:VAL:HG22	2.11	0.81
1:N:10:GLU:HA	1:N:14:ARG:NH2	1.95	0.81
1:P:174:ILE:HD13	1:P:177:ALA:HB3	1.60	0.81
1:A:522:ARG:HH12	1:B:54:ASP:N	1.79	0.80
1:D:234:LEU:HD21	1:D:336:ASP:HA	1.61	0.80
1:H:510:LEU:HD13	1:H:511:ARG:H	1.45	0.80
1:K:212:VAL:CG1	1:K:356:VAL:HG22	2.11	0.80
1:M:234:LEU:HD21	1:M:336:ASP:HA	1.61	0.80
1:N:10:GLU:HG3	1:N:14:ARG:HH12	1.44	0.80
1:N:180:ALA:HA	1:N:363:LYS:HD2	1.61	0.80
1:A:258:LEU:HD22	1:H:251:ARG:HH11	1.46	0.80
1:C:180:ALA:HA	1:C:363:LYS:HD2	1.61	0.80
1:D:64:ILE:HG23	1:D:65:LEU:HD22	1.62	0.80
1:H:203:ILE:CG2	1:H:204:ASP:H	1.95	0.80
1:I:203:ILE:CG2	1:I:204:ASP:H	1.95	0.80
1:O:54:ASP:N	1:P:522:ARG:HH12	1.80	0.80
1:P:180:ALA:HA	1:P:363:LYS:HD2	1.61	0.80
1:P:233:ALA:HB3	1:P:283:VAL:HG12	1.63	0.80
1:A:180:ALA:HA	1:A:363:LYS:HD2	1.61	0.80
1:D:252:ILE:HG12	1:E:255:PRO:HB3	1.63	0.80
1:E:510:LEU:HD13	1:E:511:ARG:H	1.45	0.80
1:F:42:LYS:HZ3	1:F:446:GLU:HG3	1.47	0.80
1:I:252:ILE:HG12	1:P:255:PRO:HB3	1.63	0.80
1:P:10:GLU:HA	1:P:14:ARG:NH2	1.95	0.80
1:H:234:LEU:HD21	1:H:336:ASP:HA	1.61	0.80
1:I:38:THR:HA	1:I:42:LYS:HB3	1.62	0.80
1:I:234:LEU:HD21	1:I:336:ASP:HA	1.61	0.80
1:K:234:LEU:HD21	1:K:336:ASP:HA	1.61	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:170:LEU:CG	1:L:171:ALA:H	1.95	0.80
1:M:64:ILE:HG23	1:M:65:LEU:HD22	1.62	0.80
1:P:170:LEU:CG	1:P:171:ALA:H	1.95	0.80
1:A:170:LEU:CG	1:A:171:ALA:H	1.95	0.80
1:B:212:VAL:CG1	1:B:356:VAL:HG22	2.11	0.80
1:B:233:ALA:HB3	1:B:283:VAL:HG12	1.63	0.80
1:D:180:ALA:HA	1:D:363:LYS:HD2	1.61	0.80
1:E:170:LEU:CG	1:E:171:ALA:H	1.95	0.80
1:H:38:THR:HA	1:H:42:LYS:HB3	1.62	0.80
1:H:233:ALA:HB3	1:H:283:VAL:HG12	1.63	0.80
1:L:255:PRO:HB3	1:M:252:ILE:HG12	1.63	0.80
1:L:510:LEU:HD13	1:L:511:ARG:H	1.45	0.80
1:O:212:VAL:CG1	1:O:356:VAL:HG22	2.11	0.80
1:P:38:THR:HA	1:P:42:LYS:HB3	1.62	0.80
1:A:38:THR:HA	1:A:42:LYS:HB3	1.63	0.80
1:A:255:PRO:HB3	1:H:252:ILE:HG12	1.63	0.80
1:B:522:ARG:HH12	1:C:54:ASP:N	1.79	0.80
1:F:234:LEU:HD21	1:F:336:ASP:HA	1.61	0.80
1:F:510:LEU:HD13	1:F:511:ARG:H	1.45	0.80
1:G:510:LEU:HD13	1:G:511:ARG:H	1.45	0.80
1:I:233:ALA:HB3	1:I:283:VAL:HG12	1.63	0.80
1:K:10:GLU:HA	1:K:14:ARG:NH2	1.95	0.80
1:K:64:ILE:HG23	1:K:65:LEU:HD22	1.62	0.80
1:O:233:ALA:HB3	1:O:283:VAL:HG12	1.63	0.80
1:A:10:GLU:HA	1:A:14:ARG:NH2	1.95	0.80
1:C:203:ILE:CG2	1:C:204:ASP:H	1.95	0.80
1:D:212:VAL:CG1	1:D:356:VAL:HG22	2.11	0.80
1:D:510:LEU:HD13	1:D:511:ARG:H	1.45	0.80
1:E:212:VAL:CG1	1:E:356:VAL:HG22	2.11	0.80
1:E:252:ILE:HG12	1:F:255:PRO:HB3	1.61	0.80
1:F:64:ILE:HG23	1:F:65:LEU:HD22	1.62	0.80
1:M:180:ALA:HA	1:M:363:LYS:HD2	1.61	0.80
1:M:212:VAL:CG1	1:M:356:VAL:HG22	2.11	0.80
1:M:510:LEU:HD13	1:M:511:ARG:H	1.45	0.80
1:C:212:VAL:CG1	1:C:356:VAL:HG22	2.11	0.80
1:F:10:GLU:HA	1:F:14:ARG:NH2	1.95	0.80
1:G:251:ARG:HH11	1:H:258:LEU:HD22	1.46	0.80
1:I:64:ILE:HG23	1:I:65:LEU:HD22	1.62	0.80
1:K:255:PRO:HB3	1:L:252:ILE:HG12	1.61	0.80
1:K:510:LEU:HD13	1:K:511:ARG:H	1.45	0.80
1:L:212:VAL:CG1	1:L:356:VAL:HG22	2.11	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:212:VAL:CG1	1:N:356:VAL:HG22	2.11	0.80
1:C:233:ALA:HB3	1:C:283:VAL:HG12	1.63	0.80
1:C:522:ARG:HH12	1:D:54:ASP:N	1.80	0.80
1:E:203:ILE:CG2	1:E:204:ASP:H	1.95	0.80
1:F:203:ILE:CG2	1:F:204:ASP:H	1.95	0.80
1:F:252:ILE:HG12	1:G:255:PRO:HB3	1.63	0.80
1:H:64:ILE:HG23	1:H:65:LEU:HD22	1.62	0.80
1:J:510:LEU:HD13	1:J:511:ARG:H	1.45	0.80
1:L:203:ILE:CG2	1:L:204:ASP:H	1.95	0.80
1:N:203:ILE:CG2	1:N:204:ASP:H	1.95	0.80
1:N:233:ALA:HB3	1:N:283:VAL:HG12	1.63	0.80
1:B:252:ILE:HG12	1:C:255:PRO:HB3	1.63	0.80
1:J:255:PRO:HB3	1:K:252:ILE:HG12	1.63	0.80
1:K:203:ILE:CG2	1:K:204:ASP:H	1.95	0.80
1:M:54:ASP:N	1:N:522:ARG:HH12	1.80	0.80
1:N:54:ASP:N	1:O:522:ARG:HH12	1.80	0.80
1:O:49:VAL:HG12	1:O:50:ASP:N	1.93	0.80
1:E:64:ILE:HG23	1:E:65:LEU:HD22	1.62	0.79
1:F:170:LEU:CG	1:F:171:ALA:H	1.95	0.79
1:L:64:ILE:HG23	1:L:65:LEU:HD22	1.62	0.79
1:N:255:PRO:HB3	1:O:252:ILE:HG12	1.63	0.79
1:D:522:ARG:HH12	1:E:54:ASP:N	1.80	0.79
1:K:170:LEU:CG	1:K:171:ALA:H	1.95	0.79
1:L:54:ASP:N	1:M:522:ARG:HH12	1.80	0.79
1:A:203:ILE:CG2	1:A:204:ASP:H	1.95	0.79
1:H:246:THR:C	1:H:248:ALA:H	1.90	0.79
1:F:49:VAL:HG12	1:F:50:ASP:N	1.93	0.79
1:I:54:ASP:N	1:J:522:ARG:HH12	1.80	0.79
1:K:49:VAL:HG12	1:K:50:ASP:N	1.93	0.79
1:J:54:ASP:N	1:K:522:ARG:HH12	1.80	0.79
1:P:203:ILE:CG2	1:P:204:ASP:H	1.95	0.79
1:A:54:ASP:N	1:H:522:ARG:HH12	1.79	0.79
1:F:522:ARG:HH12	1:G:54:ASP:N	1.80	0.79
1:G:522:ARG:HH12	1:H:54:ASP:N	1.80	0.79
1:I:251:ARG:HH11	1:P:258:LEU:HD22	1.47	0.79
1:I:522:ARG:HH12	1:P:54:ASP:N	1.80	0.79
1:J:64:ILE:HG23	1:J:65:LEU:HD22	1.62	0.79
1:B:251:ARG:HH11	1:C:258:LEU:HD22	1.46	0.79
1:C:170:LEU:CG	1:C:171:ALA:H	1.95	0.79
1:E:522:ARG:HH12	1:F:54:ASP:N	1.80	0.79
1:G:64:ILE:HG23	1:G:65:LEU:HD22	1.62	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:246:THR:C	1:I:248:ALA:H	1.90	0.79
1:K:54:ASP:N	1:L:522:ARG:HH12	1.80	0.79
1:M:203:ILE:CG2	1:M:204:ASP:H	1.95	0.79
1:N:510:LEU:HD13	1:N:511:ARG:H	1.45	0.79
1:O:510:LEU:HD13	1:O:511:ARG:H	1.45	0.79
1:P:203:ILE:HG22	1:P:204:ASP:N	1.95	0.79
1:A:203:ILE:HG22	1:A:204:ASP:N	1.95	0.79
1:D:203:ILE:CG2	1:D:204:ASP:H	1.95	0.79
1:B:170:LEU:CG	1:B:171:ALA:H	1.95	0.79
1:B:510:LEU:HD13	1:B:511:ARG:H	1.45	0.79
1:I:170:LEU:CG	1:I:171:ALA:H	1.95	0.79
1:M:233:ALA:HB3	1:M:283:VAL:HG12	1.63	0.79
1:N:170:LEU:CG	1:N:171:ALA:H	1.95	0.79
1:C:510:LEU:HD13	1:C:511:ARG:H	1.45	0.78
1:D:233:ALA:HB3	1:D:283:VAL:HG12	1.63	0.78
1:J:233:ALA:HB3	1:J:283:VAL:HG12	1.63	0.78
1:L:258:LEU:HD22	1:M:251:ARG:HH11	1.47	0.78
1:O:246:THR:C	1:O:248:ALA:H	1.90	0.78
1:G:203:ILE:CG2	1:G:204:ASP:H	1.95	0.78
1:H:170:LEU:CG	1:H:171:ALA:H	1.95	0.78
1:G:233:ALA:HB3	1:G:283:VAL:HG12	1.63	0.78
1:N:258:LEU:HD22	1:O:251:ARG:HH11	1.47	0.78
1:O:170:LEU:CG	1:O:171:ALA:H	1.95	0.78
1:E:233:ALA:HB3	1:E:283:VAL:HG12	1.63	0.78
1:D:251:ARG:HH11	1:E:258:LEU:HD22	1.47	0.78
1:J:258:LEU:HD22	1:K:251:ARG:HH11	1.47	0.78
1:B:42:LYS:HZ3	1:B:446:GLU:HG3	1.48	0.78
1:B:203:ILE:HG22	1:B:204:ASP:N	1.95	0.78
1:L:233:ALA:HB3	1:L:283:VAL:HG12	1.63	0.78
1:M:49:VAL:HG12	1:M:50:ASP:N	1.93	0.78
1:C:203:ILE:HG22	1:C:204:ASP:N	1.95	0.78
1:C:303:ILE:HG13	1:C:304:VAL:N	1.99	0.78
1:I:49:VAL:HG12	1:I:50:ASP:N	1.93	0.78
1:K:233:ALA:HB3	1:K:283:VAL:HG12	1.63	0.78
1:N:203:ILE:HG22	1:N:204:ASP:N	1.95	0.78
1:N:303:ILE:HG13	1:N:304:VAL:N	1.99	0.78
1:O:42:LYS:HZ3	1:O:446:GLU:HG3	1.48	0.78
1:D:49:VAL:HG12	1:D:50:ASP:N	1.93	0.78
1:D:170:LEU:CG	1:D:171:ALA:H	1.95	0.78
1:E:303:ILE:HG13	1:E:304:VAL:N	1.99	0.78
1:H:49:VAL:HG12	1:H:50:ASP:N	1.93	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:303:ILE:HG13	1:L:304:VAL:N	1.99	0.78
1:F:233:ALA:HB3	1:F:283:VAL:HG12	1.63	0.78
1:M:170:LEU:CG	1:M:171:ALA:H	1.95	0.78
1:A:246:THR:C	1:A:248:ALA:H	1.92	0.78
1:B:246:THR:C	1:B:248:ALA:H	1.91	0.78
1:O:203:ILE:HG22	1:O:204:ASP:N	1.95	0.78
1:F:251:ARG:HH11	1:G:258:LEU:HD22	1.47	0.77
1:P:246:THR:C	1:P:248:ALA:H	1.93	0.77
1:F:111:LEU:HG	1:F:114:ASN:HB2	1.67	0.77
1:K:111:LEU:HG	1:K:114:ASN:HB2	1.67	0.77
1:J:111:LEU:HG	1:J:114:ASN:HB2	1.67	0.77
1:A:13:LYS:HA	1:A:14:ARG:HH11	1.50	0.77
1:D:231:LYS:HD2	1:D:341:GLY:HA3	1.66	0.77
1:G:111:LEU:HG	1:G:114:ASN:HB2	1.67	0.77
1:G:170:LEU:CG	1:G:171:ALA:H	1.95	0.77
1:L:49:VAL:HG12	1:L:50:ASP:N	1.93	0.77
1:L:231:LYS:HD2	1:L:341:GLY:HA3	1.66	0.77
1:C:111:LEU:HG	1:C:114:ASN:HB2	1.67	0.77
1:E:49:VAL:HG12	1:E:50:ASP:N	1.93	0.77
1:E:111:LEU:HG	1:E:114:ASN:HB2	1.67	0.77
1:E:231:LYS:HD2	1:E:341:GLY:HA3	1.66	0.77
1:I:203:ILE:HG22	1:I:204:ASP:N	1.95	0.77
1:M:231:LYS:HD2	1:M:341:GLY:HA3	1.66	0.77
1:N:111:LEU:HG	1:N:114:ASN:HB2	1.67	0.77
1:D:171:ALA:O	1:D:175:VAL:HG23	1.85	0.77
1:H:203:ILE:HG22	1:H:204:ASP:N	1.95	0.77
1:J:170:LEU:CG	1:J:171:ALA:H	1.95	0.77
1:M:111:LEU:HG	1:M:114:ASN:HB2	1.67	0.77
1:M:171:ALA:O	1:M:175:VAL:HG23	1.85	0.77
1:B:489:VAL:HG22	1:B:491:PRO:O	1.85	0.77
1:D:111:LEU:HG	1:D:114:ASN:HB2	1.67	0.77
1:L:111:LEU:HG	1:L:114:ASN:HB2	1.67	0.77
1:B:171:ALA:O	1:B:175:VAL:HG23	1.85	0.77
1:D:401:VAL:HG13	1:D:492:LEU:HD23	1.67	0.77
1:I:303:ILE:HG13	1:I:304:VAL:N	1.99	0.77
1:D:249:GLU:HB3	1:E:251:ARG:N	2.00	0.77
1:H:303:ILE:HG13	1:H:304:VAL:N	1.99	0.77
1:K:120:VAL:HG22	1:K:124:TYR:CE2	2.20	0.77
1:K:171:ALA:O	1:K:175:VAL:HG23	1.85	0.77
1:M:401:VAL:HG13	1:M:492:LEU:HD23	1.67	0.77
1:O:171:ALA:O	1:O:175:VAL:HG23	1.85	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:10:GLU:HG3	1:D:14:ARG:NH1	2.00	0.77
1:E:401:VAL:HG13	1:E:492:LEU:HD23	1.67	0.77
1:F:10:GLU:HG3	1:F:14:ARG:NH1	2.00	0.77
1:F:120:VAL:HG22	1:F:124:TYR:CE2	2.20	0.77
1:F:171:ALA:O	1:F:175:VAL:HG23	1.85	0.77
1:L:251:ARG:N	1:M:249:GLU:HB3	2.00	0.77
1:M:10:GLU:HG3	1:M:14:ARG:NH1	2.00	0.77
1:O:111:LEU:HG	1:O:114:ASN:HB2	1.67	0.77
1:P:170:LEU:HG	1:P:171:ALA:H	1.50	0.77
1:A:520:LYS:HD2	1:B:68:MET:HA	1.67	0.76
1:B:111:LEU:HG	1:B:114:ASN:HB2	1.67	0.76
1:E:10:GLU:HA	1:E:14:ARG:NH2	1.95	0.76
1:K:10:GLU:HG3	1:K:14:ARG:NH1	2.00	0.76
1:L:10:GLU:HA	1:L:14:ARG:NH2	1.95	0.76
1:N:170:LEU:HG	1:N:171:ALA:H	1.50	0.76
1:N:401:VAL:HG13	1:N:492:LEU:HD23	1.67	0.76
1:O:120:VAL:HG22	1:O:124:TYR:CE2	2.20	0.76
1:A:170:LEU:HG	1:A:171:ALA:H	1.51	0.76
1:C:401:VAL:HG13	1:C:492:LEU:HD23	1.67	0.76
1:I:170:LEU:HG	1:I:171:ALA:H	1.50	0.76
1:I:171:ALA:O	1:I:175:VAL:HG23	1.85	0.76
1:L:401:VAL:HG13	1:L:492:LEU:HD23	1.67	0.76
1:N:253:THR:HA	1:O:250:ILE:HG23	1.68	0.76
1:B:250:ILE:HG23	1:C:253:THR:HA	1.68	0.76
1:C:170:LEU:HG	1:C:171:ALA:H	1.50	0.76
1:H:170:LEU:HG	1:H:171:ALA:H	1.50	0.76
1:H:171:ALA:O	1:H:175:VAL:HG23	1.85	0.76
1:I:111:LEU:HG	1:I:114:ASN:HB2	1.67	0.76
1:N:13:LYS:HA	1:N:14:ARG:HH11	1.51	0.76
1:N:212:VAL:HG11	1:N:356:VAL:HG22	1.67	0.76
1:P:13:LYS:HA	1:P:14:ARG:HH11	1.51	0.76
1:P:231:LYS:HD2	1:P:341:GLY:HA3	1.66	0.76
1:A:231:LYS:HD2	1:A:341:GLY:HA3	1.66	0.76
1:B:120:VAL:HG22	1:B:124:TYR:CE2	2.20	0.76
1:C:13:LYS:HA	1:C:14:ARG:HH11	1.51	0.76
1:C:212:VAL:HG11	1:C:356:VAL:HG22	1.67	0.76
1:F:13:LYS:HA	1:F:14:ARG:HH11	1.50	0.76
1:F:170:LEU:HG	1:F:171:ALA:H	1.50	0.76
1:G:120:VAL:HG22	1:G:124:TYR:CE2	2.20	0.76
1:O:303:ILE:HG13	1:O:304:VAL:N	1.99	0.76
1:A:42:LYS:HZ3	1:A:446:GLU:HG3	1.50	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:120:VAL:HG22	1:A:124:TYR:CE2	2.20	0.76
1:D:203:ILE:HG22	1:D:204:ASP:N	1.95	0.76
1:E:171:ALA:O	1:E:175:VAL:HG23	1.85	0.76
1:G:406:SER:O	1:G:409:VAL:HG12	1.86	0.76
1:J:120:VAL:HG22	1:J:124:TYR:CE2	2.20	0.76
1:J:406:SER:O	1:J:409:VAL:HG12	1.86	0.76
1:K:13:LYS:HA	1:K:14:ARG:HH11	1.50	0.76
1:K:170:LEU:HG	1:K:171:ALA:H	1.50	0.76
1:M:203:ILE:HG22	1:M:204:ASP:N	1.95	0.76
1:O:68:MET:HA	1:P:520:LYS:HD2	1.67	0.76
1:P:120:VAL:HG22	1:P:124:TYR:CE2	2.20	0.76
1:A:49:VAL:HG12	1:A:50:ASP:N	1.93	0.76
1:B:303:ILE:HG13	1:B:304:VAL:N	1.99	0.76
1:C:340:ALA:C	1:C:357:GLU:HG3	2.11	0.76
1:C:520:LYS:HD2	1:D:68:MET:HA	1.67	0.76
1:F:303:ILE:HG13	1:F:304:VAL:N	1.99	0.76
1:G:212:VAL:HG11	1:G:356:VAL:HG22	1.67	0.76
1:H:406:SER:O	1:H:409:VAL:HG12	1.86	0.76
1:J:13:LYS:HA	1:J:14:ARG:HH11	1.51	0.76
1:L:171:ALA:O	1:L:175:VAL:HG23	1.85	0.76
1:M:170:LEU:HG	1:M:171:ALA:H	1.50	0.76
1:N:120:VAL:HG22	1:N:124:TYR:CE2	2.20	0.76
1:N:171:ALA:O	1:N:175:VAL:HG23	1.85	0.76
1:N:340:ALA:C	1:N:357:GLU:HG3	2.11	0.76
1:O:231:LYS:HD2	1:O:341:GLY:HA3	1.66	0.76
1:P:42:LYS:HZ3	1:P:446:GLU:HG3	1.50	0.76
1:P:49:VAL:HG12	1:P:50:ASP:N	1.93	0.76
1:P:111:LEU:HG	1:P:114:ASN:HB2	1.67	0.76
1:A:111:LEU:HG	1:A:114:ASN:HB2	1.67	0.76
1:A:251:ARG:N	1:H:249:GLU:HB3	2.00	0.76
1:A:303:ILE:HG13	1:A:304:VAL:N	1.99	0.76
1:B:231:LYS:HD2	1:B:341:GLY:HA3	1.66	0.76
1:B:249:GLU:HB3	1:C:251:ARG:N	2.00	0.76
1:C:48:LEU:HD13	1:C:48:LEU:H	1.51	0.76
1:H:10:GLU:HG3	1:H:14:ARG:NH1	2.01	0.76
1:H:111:LEU:HG	1:H:114:ASN:HB2	1.67	0.76
1:I:249:GLU:HB3	1:P:251:ARG:N	2.00	0.76
1:I:406:SER:O	1:I:409:VAL:HG12	1.86	0.76
1:J:212:VAL:HG11	1:J:356:VAL:HG22	1.67	0.76
1:K:48:LEU:HD13	1:K:48:LEU:H	1.51	0.76
1:L:170:LEU:HG	1:L:171:ALA:H	1.50	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:68:MET:HA	1:N:520:LYS:HD2	1.67	0.76
1:M:303:ILE:HG13	1:M:304:VAL:N	1.99	0.76
1:A:212:VAL:HG11	1:A:356:VAL:HG22	1.66	0.76
1:B:10:GLU:HG3	1:B:14:ARG:NH1	2.00	0.76
1:C:120:VAL:HG22	1:C:124:TYR:CE2	2.20	0.76
1:C:171:ALA:O	1:C:175:VAL:HG23	1.85	0.76
1:D:170:LEU:HG	1:D:171:ALA:H	1.50	0.76
1:D:212:VAL:HG11	1:D:356:VAL:HG22	1.67	0.76
1:D:303:ILE:HG13	1:D:304:VAL:N	1.99	0.76
1:F:48:LEU:HD13	1:F:48:LEU:H	1.51	0.76
1:F:249:GLU:HB3	1:G:251:ARG:N	2.00	0.76
1:G:13:LYS:HA	1:G:14:ARG:HH11	1.51	0.76
1:G:303:ILE:HG13	1:G:304:VAL:N	1.99	0.76
1:I:10:GLU:HG3	1:I:14:ARG:NH1	2.00	0.76
1:I:120:VAL:HG22	1:I:124:TYR:CE2	2.20	0.76
1:I:231:LYS:HD2	1:I:341:GLY:HA3	1.66	0.76
1:K:303:ILE:HG13	1:K:304:VAL:N	1.99	0.76
1:L:253:THR:HA	1:M:250:ILE:HG23	1.68	0.76
1:L:340:ALA:C	1:L:357:GLU:HG3	2.11	0.76
1:N:48:LEU:HD13	1:N:48:LEU:H	1.51	0.76
1:N:231:LYS:HD2	1:N:341:GLY:HA3	1.66	0.76
1:N:251:ARG:N	1:O:249:GLU:HB3	2.00	0.76
1:O:10:GLU:HG3	1:O:14:ARG:NH1	2.01	0.76
1:P:303:ILE:HG13	1:P:304:VAL:N	1.99	0.76
1:D:250:ILE:HG23	1:E:253:THR:HA	1.67	0.76
1:E:170:LEU:HG	1:E:171:ALA:H	1.50	0.76
1:E:340:ALA:C	1:E:357:GLU:HG3	2.11	0.76
1:F:340:ALA:C	1:F:357:GLU:HG3	2.11	0.76
1:H:42:LYS:HZ3	1:H:446:GLU:HG3	1.50	0.76
1:H:120:VAL:HG22	1:H:124:TYR:CE2	2.20	0.76
1:L:48:LEU:HD13	1:L:48:LEU:H	1.51	0.76
1:L:120:VAL:HG22	1:L:124:TYR:CE2	2.20	0.76
1:M:212:VAL:HG11	1:M:356:VAL:HG22	1.67	0.76
1:O:48:LEU:H	1:O:48:LEU:HD13	1.51	0.76
1:A:103:LEU:HD12	1:A:433:PHE:HD1	1.51	0.76
1:B:340:ALA:C	1:B:357:GLU:HG3	2.11	0.76
1:C:231:LYS:HD2	1:C:341:GLY:HA3	1.66	0.76
1:E:120:VAL:HG22	1:E:124:TYR:CE2	2.20	0.76
1:G:48:LEU:H	1:G:48:LEU:HD13	1.51	0.76
1:J:303:ILE:HG13	1:J:304:VAL:N	1.99	0.76
1:K:340:ALA:C	1:K:357:GLU:HG3	2.11	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:406:SER:O	1:K:409:VAL:HG12	1.86	0.76
1:F:246:THR:C	1:F:248:ALA:H	1.91	0.75
1:F:406:SER:O	1:F:409:VAL:HG12	1.86	0.75
1:G:103:LEU:HD12	1:G:433:PHE:HD1	1.52	0.75
1:G:171:ALA:O	1:G:175:VAL:HG23	1.85	0.75
1:H:13:LYS:HA	1:H:14:ARG:HH11	1.50	0.75
1:H:231:LYS:HD2	1:H:341:GLY:HA3	1.66	0.75
1:J:48:LEU:H	1:J:48:LEU:HD13	1.51	0.75
1:J:103:LEU:HD12	1:J:433:PHE:HD1	1.52	0.75
1:N:68:MET:HA	1:O:520:LYS:HD2	1.67	0.75
1:A:406:SER:O	1:A:409:VAL:HG12	1.86	0.75
1:A:419:ALA:HA	1:A:428:LEU:HD22	1.68	0.75
1:B:131:ALA:HA	1:B:134:LEU:CD1	2.17	0.75
1:C:20:ALA:HB1	1:C:516:ILE:HG13	1.69	0.75
1:C:410:GLU:O	1:C:413:MET:HG3	1.87	0.75
1:D:410:GLU:O	1:D:413:MET:HG3	1.87	0.75
1:E:48:LEU:H	1:E:48:LEU:HD13	1.51	0.75
1:E:410:GLU:O	1:E:413:MET:HG3	1.87	0.75
1:H:48:LEU:HD13	1:H:48:LEU:H	1.51	0.75
1:J:251:ARG:N	1:K:249:GLU:HB3	2.00	0.75
1:L:13:LYS:HA	1:L:14:ARG:HH11	1.51	0.75
1:L:103:LEU:HD12	1:L:433:PHE:HD1	1.52	0.75
1:L:410:GLU:O	1:L:413:MET:HG3	1.87	0.75
1:M:410:GLU:O	1:M:413:MET:HG3	1.87	0.75
1:N:20:ALA:HB1	1:N:516:ILE:HG13	1.69	0.75
1:N:410:GLU:O	1:N:413:MET:HG3	1.87	0.75
1:O:340:ALA:C	1:O:357:GLU:HG3	2.11	0.75
1:P:171:ALA:O	1:P:175:VAL:HG23	1.85	0.75
1:A:131:ALA:HA	1:A:134:LEU:CD1	2.17	0.75
1:B:20:ALA:HB1	1:B:516:ILE:HG13	1.69	0.75
1:B:48:LEU:H	1:B:48:LEU:HD13	1.51	0.75
1:B:520:LYS:HD2	1:C:68:MET:HA	1.67	0.75
1:D:13:LYS:HA	1:D:14:ARG:HH11	1.50	0.75
1:D:20:ALA:HB1	1:D:516:ILE:HG13	1.68	0.75
1:E:103:LEU:HD12	1:E:433:PHE:HD1	1.52	0.75
1:F:250:ILE:HG23	1:G:253:THR:HA	1.67	0.75
1:G:49:VAL:CG1	1:G:50:ASP:H	1.94	0.75
1:I:520:LYS:HD2	1:P:68:MET:HA	1.67	0.75
1:J:49:VAL:CG1	1:J:50:ASP:H	1.94	0.75
1:M:20:ALA:HB1	1:M:516:ILE:HG13	1.68	0.75
1:M:120:VAL:HG22	1:M:124:TYR:CE2	2.20	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:20:ALA:HB1	1:O:516:ILE:HG13	1.69	0.75
1:O:131:ALA:HA	1:O:134:LEU:CD1	2.17	0.75
1:P:131:ALA:HA	1:P:134:LEU:CD1	2.17	0.75
1:P:212:VAL:HG11	1:P:356:VAL:HG22	1.67	0.75
1:A:171:ALA:O	1:A:175:VAL:HG23	1.85	0.75
1:B:410:GLU:O	1:B:413:MET:HG3	1.87	0.75
1:D:120:VAL:HG22	1:D:124:TYR:CE2	2.20	0.75
1:H:131:ALA:HA	1:H:134:LEU:CD1	2.17	0.75
1:I:48:LEU:HD13	1:I:48:LEU:H	1.51	0.75
1:J:171:ALA:O	1:J:175:VAL:HG23	1.85	0.75
1:J:253:THR:HA	1:K:250:ILE:HG23	1.68	0.75
1:P:410:GLU:O	1:P:413:MET:HG3	1.87	0.75
1:A:410:GLU:O	1:A:413:MET:HG3	1.87	0.75
1:C:103:LEU:HD12	1:C:433:PHE:HD1	1.52	0.75
1:E:13:LYS:HA	1:E:14:ARG:HH11	1.51	0.75
1:F:410:GLU:O	1:F:413:MET:HG3	1.87	0.75
1:F:520:LYS:HD2	1:G:68:MET:HA	1.67	0.75
1:I:131:ALA:HA	1:I:134:LEU:CD1	2.17	0.75
1:I:419:ALA:HA	1:I:428:LEU:HD22	1.68	0.75
1:J:10:GLU:HG3	1:J:14:ARG:NH1	2.01	0.75
1:J:68:MET:HA	1:K:520:LYS:HD2	1.67	0.75
1:K:246:THR:C	1:K:248:ALA:H	1.90	0.75
1:K:410:GLU:O	1:K:413:MET:HG3	1.87	0.75
1:K:521:LEU:HB3	1:K:526:ASP:HB3	1.68	0.75
1:L:10:GLU:HG3	1:L:14:ARG:NH1	2.01	0.75
1:M:13:LYS:HA	1:M:14:ARG:HH11	1.50	0.75
1:O:410:GLU:O	1:O:413:MET:HG3	1.87	0.75
1:P:406:SER:O	1:P:409:VAL:HG12	1.86	0.75
1:A:48:LEU:HD13	1:A:48:LEU:H	1.50	0.75
1:B:419:ALA:HA	1:B:428:LEU:HD22	1.68	0.75
1:G:246:THR:C	1:G:248:ALA:H	1.93	0.75
1:H:410:GLU:O	1:H:413:MET:HG3	1.87	0.75
1:I:13:LYS:HA	1:I:14:ARG:HH11	1.50	0.75
1:I:187:LYS:HE3	1:P:347:LYS:HZ3	1.51	0.75
1:J:131:ALA:HA	1:J:134:LEU:CD1	2.17	0.75
1:M:49:VAL:CG1	1:M:50:ASP:H	1.94	0.75
1:O:419:ALA:HA	1:O:428:LEU:HD22	1.68	0.75
1:A:68:MET:HA	1:H:520:LYS:HD2	1.67	0.75
1:A:403:GLY:HA3	1:A:492:LEU:HD13	1.68	0.75
1:C:10:GLU:HG3	1:C:14:ARG:NH1	2.01	0.75
1:D:49:VAL:CG1	1:D:50:ASP:H	1.94	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:10:GLU:HG3	1:E:14:ARG:NH1	2.01	0.75
1:F:521:LEU:HB3	1:F:526:ASP:HB3	1.68	0.75
1:G:10:GLU:HG3	1:G:14:ARG:NH1	2.01	0.75
1:H:419:ALA:HA	1:H:428:LEU:HD22	1.68	0.75
1:I:401:VAL:HG13	1:I:492:LEU:HD23	1.67	0.75
1:I:410:GLU:O	1:I:413:MET:HG3	1.87	0.75
1:K:231:LYS:HD2	1:K:341:GLY:HA3	1.66	0.75
1:L:403:GLY:HA3	1:L:492:LEU:HD13	1.68	0.75
1:N:103:LEU:HD12	1:N:433:PHE:HD1	1.52	0.75
1:P:403:GLY:HA3	1:P:492:LEU:HD13	1.68	0.75
1:A:340:ALA:C	1:A:357:GLU:HG3	2.11	0.75
1:D:340:ALA:C	1:D:357:GLU:HG3	2.11	0.75
1:G:131:ALA:HA	1:G:134:LEU:CD1	2.17	0.75
1:G:231:LYS:HD2	1:G:341:GLY:HA3	1.66	0.75
1:J:170:LEU:HG	1:J:171:ALA:H	1.50	0.75
1:J:231:LYS:HD2	1:J:341:GLY:HA3	1.66	0.75
1:J:340:ALA:C	1:J:357:GLU:HG3	2.11	0.75
1:K:68:MET:HA	1:L:520:LYS:HD2	1.67	0.75
1:L:212:VAL:HG11	1:L:356:VAL:HG22	1.67	0.75
1:L:521:LEU:HB3	1:L:526:ASP:HB3	1.69	0.75
1:P:103:LEU:HD12	1:P:433:PHE:HD1	1.52	0.75
1:P:340:ALA:C	1:P:357:GLU:HG3	2.11	0.75
1:P:419:ALA:HA	1:P:428:LEU:HD22	1.68	0.75
1:B:103:LEU:HD12	1:B:433:PHE:HD1	1.52	0.75
1:E:403:GLY:HA3	1:E:492:LEU:HD13	1.68	0.75
1:E:520:LYS:HD2	1:F:68:MET:HA	1.67	0.75
1:E:521:LEU:HB3	1:E:526:ASP:HB3	1.69	0.75
1:F:231:LYS:HD2	1:F:341:GLY:HA3	1.66	0.75
1:F:401:VAL:HG13	1:F:492:LEU:HD23	1.67	0.75
1:F:403:GLY:HA3	1:F:492:LEU:HD13	1.68	0.75
1:G:340:ALA:C	1:G:357:GLU:HG3	2.11	0.75
1:H:340:ALA:C	1:H:357:GLU:HG3	2.11	0.75
1:H:401:VAL:HG13	1:H:492:LEU:HD23	1.67	0.75
1:H:489:VAL:HG22	1:H:491:PRO:O	1.87	0.75
1:N:10:GLU:HG3	1:N:14:ARG:NH1	2.01	0.75
1:O:103:LEU:HD12	1:O:433:PHE:HD1	1.52	0.75
1:P:20:ALA:HB1	1:P:516:ILE:HG13	1.69	0.75
1:A:347:LYS:HZ3	1:H:187:LYS:HE3	1.52	0.74
1:I:340:ALA:C	1:I:357:GLU:HG3	2.11	0.74
1:J:401:VAL:HG13	1:J:492:LEU:HD23	1.67	0.74
1:K:403:GLY:HA3	1:K:492:LEU:HD13	1.68	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:340:ALA:C	1:M:357:GLU:HG3	2.11	0.74
1:M:347:LYS:HZ3	1:N:187:LYS:HE3	1.51	0.74
1:N:246:THR:C	1:N:248:ALA:H	1.93	0.74
1:N:406:SER:O	1:N:409:VAL:HG12	1.86	0.74
1:A:20:ALA:HB1	1:A:516:ILE:HG13	1.69	0.74
1:C:187:LYS:HE3	1:D:347:LYS:HZ3	1.51	0.74
1:C:406:SER:O	1:C:409:VAL:HG12	1.86	0.74
1:D:131:ALA:HA	1:D:134:LEU:CD1	2.17	0.74
1:E:20:ALA:HB1	1:E:516:ILE:HG13	1.69	0.74
1:E:212:VAL:HG11	1:E:356:VAL:HG22	1.67	0.74
1:G:170:LEU:HG	1:G:171:ALA:H	1.50	0.74
1:G:403:GLY:HA3	1:G:492:LEU:HD13	1.68	0.74
1:I:489:VAL:HG22	1:I:491:PRO:O	1.88	0.74
1:J:419:ALA:HA	1:J:428:LEU:HD22	1.68	0.74
1:J:521:LEU:HB3	1:J:526:ASP:HB3	1.69	0.74
1:L:20:ALA:HB1	1:L:516:ILE:HG13	1.69	0.74
1:M:246:THR:C	1:M:248:ALA:H	1.90	0.74
1:N:131:ALA:HA	1:N:134:LEU:CD1	2.17	0.74
1:N:347:LYS:HZ3	1:O:187:LYS:HE3	1.52	0.74
1:G:155:MET:CE	1:G:387:ALA:HA	2.18	0.74
1:G:419:ALA:HA	1:G:428:LEU:HD22	1.68	0.74
1:G:521:LEU:HB3	1:G:526:ASP:HB3	1.69	0.74
1:I:250:ILE:HG23	1:P:253:THR:HA	1.68	0.74
1:J:155:MET:CE	1:J:387:ALA:HA	2.18	0.74
1:J:246:THR:C	1:J:248:ALA:H	1.93	0.74
1:J:403:GLY:HA3	1:J:492:LEU:HD13	1.68	0.74
1:K:401:VAL:HG13	1:K:492:LEU:HD23	1.67	0.74
1:L:203:ILE:HG22	1:L:204:ASP:N	1.95	0.74
1:M:131:ALA:HA	1:M:134:LEU:CD1	2.17	0.74
1:P:401:VAL:HG13	1:P:492:LEU:HD23	1.67	0.74
1:A:253:THR:HA	1:H:250:ILE:HG23	1.68	0.74
1:C:131:ALA:HA	1:C:134:LEU:CD1	2.17	0.74
1:D:403:GLY:HA3	1:D:492:LEU:HD13	1.68	0.74
1:F:212:VAL:HG11	1:F:356:VAL:HG22	1.67	0.74
1:F:489:VAL:HG22	1:F:491:PRO:O	1.88	0.74
1:G:401:VAL:HG13	1:G:492:LEU:HD23	1.67	0.74
1:G:520:LYS:HD2	1:H:68:MET:HA	1.68	0.74
1:I:68:MET:HA	1:J:520:LYS:HD2	1.67	0.74
1:I:103:LEU:HD12	1:I:433:PHE:HD1	1.52	0.74
1:J:410:GLU:O	1:J:413:MET:HG3	1.87	0.74
1:K:212:VAL:HG11	1:K:356:VAL:HG22	1.67	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:347:LYS:HZ3	1:M:187:LYS:HE3	1.51	0.74
1:M:403:GLY:HA3	1:M:492:LEU:HD13	1.68	0.74
1:O:149:ILE:HD13	1:O:149:ILE:H	1.53	0.74
1:P:48:LEU:HD13	1:P:48:LEU:H	1.51	0.74
1:A:187:LYS:HE3	1:B:347:LYS:HZ3	1.53	0.74
1:B:14:ARG:HD2	1:B:529:ASP:HB3	1.70	0.74
1:C:403:GLY:HA3	1:C:492:LEU:HD13	1.68	0.74
1:D:521:LEU:HB3	1:D:526:ASP:HB3	1.68	0.74
1:F:131:ALA:HA	1:F:134:LEU:CD1	2.17	0.74
1:G:410:GLU:O	1:G:413:MET:HG3	1.87	0.74
1:K:489:VAL:HG22	1:K:491:PRO:O	1.88	0.74
1:M:521:LEU:HB3	1:M:526:ASP:HB3	1.68	0.74
1:N:403:GLY:HA3	1:N:492:LEU:HD13	1.68	0.74
1:O:14:ARG:HD2	1:O:529:ASP:HB3	1.70	0.74
1:O:347:LYS:HZ3	1:P:187:LYS:HE3	1.53	0.74
1:A:401:VAL:HG13	1:A:492:LEU:HD23	1.67	0.74
1:B:149:ILE:HD13	1:B:149:ILE:H	1.53	0.74
1:B:170:LEU:HG	1:B:171:ALA:H	1.50	0.74
1:B:187:LYS:HE3	1:C:347:LYS:HZ3	1.51	0.74
1:D:187:LYS:HE3	1:E:347:LYS:HZ3	1.51	0.74
1:D:406:SER:O	1:D:409:VAL:HG12	1.86	0.74
1:E:35:VAL:O	1:E:39:LEU:HB2	1.88	0.74
1:G:149:ILE:HD13	1:G:149:ILE:H	1.53	0.74
1:K:131:ALA:HA	1:K:134:LEU:CD1	2.17	0.74
1:O:13:LYS:HA	1:O:14:ARG:HH11	1.50	0.74
1:B:13:LYS:HA	1:B:14:ARG:HH11	1.50	0.74
1:C:246:THR:C	1:C:248:ALA:H	1.93	0.74
1:H:14:ARG:HD2	1:H:529:ASP:HB3	1.70	0.74
1:H:103:LEU:HD12	1:H:433:PHE:HD1	1.52	0.74
1:I:14:ARG:HD2	1:I:529:ASP:HB3	1.70	0.74
1:J:149:ILE:HD13	1:J:149:ILE:H	1.53	0.74
1:L:35:VAL:O	1:L:39:LEU:HB2	1.88	0.74
1:L:149:ILE:HD13	1:L:149:ILE:H	1.53	0.74
1:N:419:ALA:HA	1:N:428:LEU:HD22	1.68	0.74
1:O:170:LEU:HG	1:O:171:ALA:H	1.50	0.74
1:P:14:ARG:HD2	1:P:529:ASP:HB3	1.69	0.74
1:A:489:VAL:HG22	1:A:491:PRO:O	1.88	0.74
1:B:406:SER:O	1:B:409:VAL:HG12	1.86	0.74
1:C:419:ALA:HA	1:C:428:LEU:HD22	1.68	0.74
1:D:520:LYS:HD2	1:E:68:MET:HA	1.67	0.74
1:E:149:ILE:H	1:E:149:ILE:HD13	1.53	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:155:MET:CE	1:E:387:ALA:HA	2.18	0.74
1:E:246:THR:C	1:E:248:ALA:H	1.93	0.74
1:E:406:SER:O	1:E:409:VAL:HG12	1.86	0.74
1:H:521:LEU:HB3	1:H:526:ASP:HB3	1.68	0.74
1:L:68:MET:HA	1:M:520:LYS:HD2	1.67	0.74
1:L:155:MET:CE	1:L:387:ALA:HA	2.18	0.74
1:L:246:THR:C	1:L:248:ALA:H	1.93	0.74
1:L:406:SER:O	1:L:409:VAL:HG12	1.86	0.74
1:L:419:ALA:HA	1:L:428:LEU:HD22	1.68	0.74
1:M:406:SER:O	1:M:409:VAL:HG12	1.86	0.74
1:P:10:GLU:HG3	1:P:14:ARG:NH1	2.01	0.74
1:A:10:GLU:HG3	1:A:14:ARG:NH1	2.00	0.74
1:A:14:ARG:HD2	1:A:529:ASP:HB3	1.69	0.74
1:B:212:VAL:HG11	1:B:356:VAL:HG22	1.67	0.74
1:D:48:LEU:HD13	1:D:48:LEU:H	1.51	0.74
1:D:489:VAL:HG22	1:D:491:PRO:O	1.88	0.74
1:E:419:ALA:HA	1:E:428:LEU:HD22	1.68	0.74
1:G:187:LYS:HE3	1:H:347:LYS:HZ3	1.51	0.74
1:H:401:VAL:CG1	1:H:492:LEU:HD23	2.18	0.74
1:I:212:VAL:HG11	1:I:356:VAL:HG22	1.67	0.74
1:I:401:VAL:CG1	1:I:492:LEU:HD23	2.18	0.74
1:I:521:LEU:HB3	1:I:526:ASP:HB3	1.68	0.74
1:M:48:LEU:H	1:M:48:LEU:HD13	1.51	0.74
1:M:489:VAL:HG22	1:M:491:PRO:O	1.88	0.74
1:O:251:ARG:N	1:P:249:GLU:HB3	2.03	0.74
1:O:401:VAL:HG13	1:O:492:LEU:HD23	1.67	0.74
1:P:155:MET:CE	1:P:387:ALA:HA	2.18	0.74
1:D:149:ILE:HD13	1:D:149:ILE:H	1.53	0.74
1:E:489:VAL:HG22	1:E:491:PRO:O	1.88	0.74
1:F:103:LEU:HD12	1:F:433:PHE:HD1	1.52	0.74
1:L:489:VAL:HG22	1:L:491:PRO:O	1.88	0.74
1:O:406:SER:O	1:O:409:VAL:HG12	1.86	0.74
1:O:489:VAL:HG22	1:O:491:PRO:O	1.88	0.74
1:C:35:VAL:O	1:C:39:LEU:HB2	1.88	0.73
1:D:246:THR:C	1:D:248:ALA:H	1.91	0.73
1:F:419:ALA:HA	1:F:428:LEU:HD22	1.68	0.73
1:H:155:MET:CE	1:H:387:ALA:HA	2.18	0.73
1:M:149:ILE:H	1:M:149:ILE:HD13	1.53	0.73
1:N:14:ARG:HD2	1:N:529:ASP:HB3	1.69	0.73
1:N:35:VAL:O	1:N:39:LEU:HB2	1.88	0.73
1:A:155:MET:CE	1:A:387:ALA:HA	2.18	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:401:VAL:HG13	1:B:492:LEU:HD23	1.68	0.73
1:C:14:ARG:HD2	1:C:529:ASP:HB3	1.69	0.73
1:E:131:ALA:HA	1:E:134:LEU:CD1	2.17	0.73
1:H:20:ALA:HB1	1:H:516:ILE:HG13	1.69	0.73
1:H:212:VAL:HG11	1:H:356:VAL:HG22	1.67	0.73
1:I:155:MET:CE	1:I:387:ALA:HA	2.18	0.73
1:I:251:ARG:N	1:J:249:GLU:HB3	2.03	0.73
1:K:347:LYS:HZ3	1:L:187:LYS:HE3	1.52	0.73
1:K:419:ALA:HA	1:K:428:LEU:HD22	1.68	0.73
1:O:212:VAL:HG11	1:O:356:VAL:HG22	1.67	0.73
1:A:249:GLU:HB3	1:B:251:ARG:N	2.03	0.73
1:J:347:LYS:HZ3	1:K:187:LYS:HE3	1.51	0.73
1:K:103:LEU:HD12	1:K:433:PHE:HD1	1.52	0.73
1:P:489:VAL:HG22	1:P:491:PRO:O	1.88	0.73
1:A:131:ALA:HA	1:A:134:LEU:HD13	1.70	0.73
1:E:249:GLU:HB3	1:F:251:ARG:N	2.03	0.73
1:I:20:ALA:HB1	1:I:516:ILE:HG13	1.68	0.73
1:K:251:ARG:N	1:L:249:GLU:HB3	2.03	0.73
1:L:131:ALA:HA	1:L:134:LEU:CD1	2.17	0.73
1:P:131:ALA:HA	1:P:134:LEU:HD13	1.70	0.73
1:C:155:MET:CE	1:C:387:ALA:HA	2.18	0.73
1:C:249:GLU:HB3	1:D:251:ARG:N	2.03	0.73
1:F:20:ALA:HB1	1:F:516:ILE:HG13	1.68	0.73
1:G:249:GLU:HB3	1:H:251:ARG:N	2.03	0.73
1:I:403:GLY:HA3	1:I:492:LEU:HD13	1.68	0.73
1:J:401:VAL:CG1	1:J:492:LEU:HD23	2.18	0.73
1:K:149:ILE:H	1:K:149:ILE:HD13	1.53	0.73
1:K:155:MET:CE	1:K:387:ALA:HA	2.18	0.73
1:M:251:ARG:N	1:N:249:GLU:HB3	2.03	0.73
1:N:155:MET:CE	1:N:387:ALA:HA	2.18	0.73
1:P:149:ILE:H	1:P:149:ILE:HD13	1.53	0.73
1:A:149:ILE:HD13	1:A:149:ILE:H	1.53	0.73
1:B:203:ILE:CG2	1:B:204:ASP:H	1.94	0.73
1:F:149:ILE:HD13	1:F:149:ILE:H	1.53	0.73
1:F:187:LYS:HE3	1:G:347:LYS:HZ3	1.52	0.73
1:G:14:ARG:HD2	1:G:529:ASP:HB3	1.69	0.73
1:G:35:VAL:O	1:G:39:LEU:HB2	1.88	0.73
1:H:403:GLY:HA3	1:H:492:LEU:HD13	1.68	0.73
1:J:14:ARG:HD2	1:J:529:ASP:HB3	1.69	0.73
1:K:20:ALA:HB1	1:K:516:ILE:HG13	1.68	0.73
1:N:489:VAL:HG22	1:N:491:PRO:O	1.88	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:521:LEU:HB3	1:N:526:ASP:HB3	1.69	0.73
1:O:287:GLN:O	1:O:308:ARG:HA	1.89	0.73
1:B:287:GLN:O	1:B:308:ARG:HA	1.89	0.73
1:C:489:VAL:HG22	1:C:491:PRO:O	1.88	0.73
1:F:155:MET:CE	1:F:387:ALA:HA	2.18	0.73
1:G:20:ALA:HB1	1:G:516:ILE:HG13	1.69	0.73
1:G:401:VAL:CG1	1:G:492:LEU:HD23	2.18	0.73
1:I:347:LYS:HZ3	1:J:187:LYS:HE3	1.52	0.73
1:J:20:ALA:HB1	1:J:516:ILE:HG13	1.69	0.73
1:J:35:VAL:O	1:J:39:LEU:HB2	1.88	0.73
1:C:521:LEU:HB3	1:C:526:ASP:HB3	1.69	0.73
1:F:251:ARG:HE	1:G:258:LEU:CD2	2.02	0.73
1:M:103:LEU:HD12	1:M:433:PHE:HD1	1.52	0.73
1:O:203:ILE:CG2	1:O:204:ASP:H	1.95	0.73
1:I:35:VAL:O	1:I:39:LEU:HB2	1.88	0.73
1:K:35:VAL:O	1:K:39:LEU:HB2	1.88	0.73
1:N:401:VAL:CG1	1:N:492:LEU:HD23	2.18	0.73
1:P:521:LEU:HB3	1:P:526:ASP:HB3	1.69	0.73
1:C:149:ILE:H	1:C:149:ILE:HD13	1.53	0.73
1:C:401:VAL:CG1	1:C:492:LEU:HD23	2.18	0.73
1:D:103:LEU:HD12	1:D:433:PHE:HD1	1.52	0.73
1:E:14:ARG:HD2	1:E:529:ASP:HB3	1.69	0.73
1:G:131:ALA:HA	1:G:134:LEU:HD13	1.70	0.73
1:H:149:ILE:H	1:H:149:ILE:HD13	1.53	0.73
1:M:419:ALA:HA	1:M:428:LEU:HD22	1.68	0.73
1:O:214:VAL:HA	1:O:316:LYS:HG2	1.71	0.73
1:A:401:VAL:CG1	1:A:492:LEU:HD23	2.18	0.72
1:A:521:LEU:HB3	1:A:526:ASP:HB3	1.69	0.72
1:B:214:VAL:HA	1:B:316:LYS:HG2	1.71	0.72
1:B:521:LEU:HB3	1:B:526:ASP:HB3	1.68	0.72
1:D:401:VAL:CG1	1:D:492:LEU:HD23	2.18	0.72
1:F:35:VAL:O	1:F:39:LEU:HB2	1.88	0.72
1:F:401:VAL:CG1	1:F:492:LEU:HD23	2.18	0.72
1:G:241:ILE:HG23	1:G:269:LEU:HD21	1.71	0.72
1:G:252:ILE:HA	1:H:255:PRO:HD3	1.71	0.72
1:H:35:VAL:O	1:H:39:LEU:HB2	1.88	0.72
1:I:255:PRO:HD3	1:J:252:ILE:HA	1.71	0.72
1:J:131:ALA:HA	1:J:134:LEU:HD13	1.70	0.72
1:J:241:ILE:HG23	1:J:269:LEU:HD21	1.71	0.72
1:J:258:LEU:CD2	1:K:251:ARG:HE	2.02	0.72
1:L:14:ARG:HD2	1:L:529:ASP:HB3	1.69	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:131:ALA:HA	1:M:134:LEU:HD13	1.70	0.72
1:O:521:LEU:HB3	1:O:526:ASP:HB3	1.68	0.72
1:P:35:VAL:O	1:P:39:LEU:HB2	1.88	0.72
1:P:401:VAL:CG1	1:P:492:LEU:HD23	2.18	0.72
1:A:35:VAL:O	1:A:39:LEU:HB2	1.88	0.72
1:B:48:LEU:H	1:B:48:LEU:CD1	2.02	0.72
1:B:155:MET:CE	1:B:387:ALA:HA	2.17	0.72
1:B:251:ARG:HE	1:C:258:LEU:CD2	2.02	0.72
1:D:131:ALA:HA	1:D:134:LEU:HD13	1.70	0.72
1:D:419:ALA:HA	1:D:428:LEU:HD22	1.68	0.72
1:E:252:ILE:HA	1:F:255:PRO:HD3	1.71	0.72
1:G:287:GLN:O	1:G:308:ARG:HA	1.89	0.72
1:G:489:VAL:HG13	1:G:492:LEU:HA	1.71	0.72
1:I:149:ILE:HD13	1:I:149:ILE:H	1.53	0.72
1:J:489:VAL:HG13	1:J:492:LEU:HA	1.71	0.72
1:K:13:LYS:HD2	1:K:13:LYS:N	2.04	0.72
1:M:401:VAL:CG1	1:M:492:LEU:HD23	2.18	0.72
1:O:403:GLY:HA3	1:O:492:LEU:HD13	1.68	0.72
1:P:48:LEU:H	1:P:48:LEU:CD1	2.02	0.72
1:A:13:LYS:N	1:A:13:LYS:HD2	2.04	0.72
1:A:48:LEU:H	1:A:48:LEU:CD1	2.02	0.72
1:C:48:LEU:H	1:C:48:LEU:CD1	2.02	0.72
1:F:13:LYS:HD2	1:F:13:LYS:N	2.04	0.72
1:G:48:LEU:H	1:G:48:LEU:CD1	2.02	0.72
1:H:287:GLN:O	1:H:308:ARG:HA	1.89	0.72
1:I:287:GLN:O	1:I:308:ARG:HA	1.89	0.72
1:J:48:LEU:H	1:J:48:LEU:CD1	2.02	0.72
1:K:401:VAL:CG1	1:K:492:LEU:HD23	2.18	0.72
1:M:13:LYS:N	1:M:13:LYS:HD2	2.04	0.72
1:M:35:VAL:O	1:M:39:LEU:HB2	1.88	0.72
1:N:149:ILE:HD13	1:N:149:ILE:H	1.53	0.72
1:O:155:MET:CE	1:O:387:ALA:HA	2.18	0.72
1:A:49:VAL:CG1	1:A:50:ASP:H	1.94	0.72
1:D:13:LYS:N	1:D:13:LYS:HD2	2.04	0.72
1:J:287:GLN:O	1:J:308:ARG:HA	1.89	0.72
1:K:48:LEU:H	1:K:48:LEU:CD1	2.02	0.72
1:K:255:PRO:HD3	1:L:252:ILE:HA	1.71	0.72
1:L:131:ALA:HA	1:L:134:LEU:HD13	1.70	0.72
1:L:241:ILE:HG23	1:L:269:LEU:HD21	1.71	0.72
1:N:48:LEU:H	1:N:48:LEU:CD1	2.02	0.72
1:N:258:LEU:CD2	1:O:251:ARG:HE	2.02	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:401:VAL:CG1	1:O:492:LEU:HD23	2.18	0.72
1:P:13:LYS:HD2	1:P:13:LYS:N	2.04	0.72
1:P:49:VAL:CG1	1:P:50:ASP:H	1.94	0.72
1:D:35:VAL:O	1:D:39:LEU:HB2	1.88	0.72
1:D:48:LEU:H	1:D:48:LEU:CD1	2.02	0.72
1:E:241:ILE:HG23	1:E:269:LEU:HD21	1.71	0.72
1:F:48:LEU:H	1:F:48:LEU:CD1	2.02	0.72
1:M:48:LEU:H	1:M:48:LEU:CD1	2.02	0.72
1:M:155:MET:CE	1:M:387:ALA:HA	2.18	0.72
1:O:49:VAL:CG1	1:O:50:ASP:H	1.94	0.72
1:B:13:LYS:N	1:B:13:LYS:HD2	2.04	0.72
1:C:287:GLN:O	1:C:308:ARG:HA	1.89	0.72
1:D:251:ARG:HE	1:E:258:LEU:CD2	2.02	0.72
1:E:131:ALA:HA	1:E:134:LEU:HD13	1.70	0.72
1:F:241:ILE:HG23	1:F:269:LEU:HD21	1.71	0.72
1:G:489:VAL:HG22	1:G:491:PRO:O	1.88	0.72
1:I:241:ILE:HG23	1:I:269:LEU:HD21	1.71	0.72
1:J:489:VAL:HG22	1:J:491:PRO:O	1.88	0.72
1:K:241:ILE:HG23	1:K:269:LEU:HD21	1.71	0.72
1:O:35:VAL:O	1:O:39:LEU:HB2	1.88	0.72
1:P:233:ALA:HB2	1:P:281:ALA:HB1	1.72	0.72
1:A:233:ALA:HB2	1:A:281:ALA:HB1	1.72	0.72
1:A:251:ARG:HE	1:B:258:LEU:CD2	2.03	0.72
1:B:35:VAL:O	1:B:39:LEU:HB2	1.88	0.72
1:B:233:ALA:HB2	1:B:281:ALA:HB1	1.72	0.72
1:C:131:ALA:HA	1:C:134:LEU:HD13	1.70	0.72
1:D:14:ARG:HD2	1:D:529:ASP:HB3	1.70	0.72
1:D:155:MET:CE	1:D:387:ALA:HA	2.18	0.72
1:H:241:ILE:HG23	1:H:269:LEU:HD21	1.71	0.72
1:M:14:ARG:HD2	1:M:529:ASP:HB3	1.70	0.72
1:N:131:ALA:HA	1:N:134:LEU:HD13	1.70	0.72
1:N:287:GLN:O	1:N:308:ARG:HA	1.89	0.72
1:O:13:LYS:N	1:O:13:LYS:HD2	2.04	0.72
1:O:48:LEU:H	1:O:48:LEU:CD1	2.02	0.72
1:O:233:ALA:HB2	1:O:281:ALA:HB1	1.72	0.72
1:B:419:ALA:HB2	1:B:431:ARG:HB2	1.72	0.72
1:D:214:VAL:HA	1:D:316:LYS:HG2	1.71	0.72
1:E:13:LYS:N	1:E:13:LYS:HD2	2.04	0.72
1:E:510:LEU:HD13	1:E:511:ARG:N	2.05	0.72
1:F:287:GLN:O	1:F:308:ARG:HA	1.89	0.72
1:L:258:LEU:CD2	1:M:251:ARG:HE	2.02	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:214:VAL:HA	1:M:316:LYS:HG2	1.71	0.72
1:N:489:VAL:HG13	1:N:492:LEU:HA	1.71	0.72
1:C:489:VAL:HG13	1:C:492:LEU:HA	1.71	0.72
1:E:419:ALA:HB2	1:E:431:ARG:HB2	1.72	0.72
1:E:489:VAL:HG13	1:E:492:LEU:HA	1.71	0.72
1:F:14:ARG:HD2	1:F:529:ASP:HB3	1.70	0.72
1:F:510:LEU:HD13	1:F:511:ARG:N	2.05	0.72
1:H:214:VAL:HA	1:H:316:LYS:HG2	1.71	0.72
1:I:131:ALA:HA	1:I:134:LEU:HD13	1.70	0.72
1:I:214:VAL:HA	1:I:316:LYS:HG2	1.71	0.72
1:K:287:GLN:O	1:K:308:ARG:HA	1.89	0.72
1:K:510:LEU:HD13	1:K:511:ARG:N	2.05	0.72
1:L:13:LYS:N	1:L:13:LYS:HD2	2.04	0.72
1:L:419:ALA:HB2	1:L:431:ARG:HB2	1.72	0.72
1:L:510:LEU:HD13	1:L:511:ARG:N	2.05	0.72
1:M:287:GLN:O	1:M:308:ARG:HA	1.89	0.72
1:A:252:ILE:HA	1:B:255:PRO:HD3	1.71	0.72
1:A:258:LEU:CD2	1:H:251:ARG:HE	2.03	0.72
1:C:233:ALA:HB2	1:C:281:ALA:HB1	1.72	0.72
1:D:287:GLN:O	1:D:308:ARG:HA	1.89	0.72
1:D:510:LEU:HD13	1:D:511:ARG:N	2.05	0.72
1:F:233:ALA:HB2	1:F:281:ALA:HB1	1.72	0.72
1:F:419:ALA:HB2	1:F:431:ARG:HB2	1.72	0.72
1:J:42:LYS:HZ3	1:J:446:GLU:HG3	1.55	0.72
1:K:14:ARG:HD2	1:K:529:ASP:HB3	1.70	0.72
1:K:233:ALA:HB2	1:K:281:ALA:HB1	1.72	0.72
1:K:419:ALA:HB2	1:K:431:ARG:HB2	1.72	0.72
1:N:419:ALA:HB2	1:N:431:ARG:HB2	1.72	0.72
1:O:419:ALA:HB2	1:O:431:ARG:HB2	1.72	0.72
1:C:419:ALA:HB2	1:C:431:ARG:HB2	1.72	0.71
1:E:287:GLN:O	1:E:308:ARG:HA	1.89	0.71
1:E:401:VAL:CG1	1:E:492:LEU:HD23	2.18	0.71
1:F:131:ALA:HA	1:F:134:LEU:HD13	1.70	0.71
1:G:233:ALA:HB2	1:G:281:ALA:HB1	1.72	0.71
1:H:131:ALA:HA	1:H:134:LEU:HD13	1.70	0.71
1:L:287:GLN:O	1:L:308:ARG:HA	1.89	0.71
1:L:401:VAL:CG1	1:L:492:LEU:HD23	2.18	0.71
1:L:489:VAL:HG13	1:L:492:LEU:HA	1.71	0.71
1:M:241:ILE:HG23	1:M:269:LEU:HD21	1.71	0.71
1:M:510:LEU:HD13	1:M:511:ARG:N	2.05	0.71
1:B:49:VAL:CG1	1:B:50:ASP:H	1.94	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:401:VAL:CG1	1:B:492:LEU:HD23	2.19	0.71
1:D:419:ALA:HB2	1:D:431:ARG:HB2	1.72	0.71
1:E:187:LYS:HE3	1:F:347:LYS:HZ3	1.53	0.71
1:E:251:ARG:HE	1:F:258:LEU:CD2	2.03	0.71
1:F:252:ILE:HA	1:G:255:PRO:HD3	1.72	0.71
1:G:510:LEU:HD13	1:G:511:ARG:N	2.05	0.71
1:I:251:ARG:HE	1:P:258:LEU:CD2	2.02	0.71
1:J:233:ALA:HB2	1:J:281:ALA:HB1	1.72	0.71
1:J:255:PRO:HD3	1:K:252:ILE:HA	1.72	0.71
1:J:510:LEU:HD13	1:J:511:ARG:N	2.05	0.71
1:K:131:ALA:HA	1:K:134:LEU:HD13	1.70	0.71
1:N:233:ALA:HB2	1:N:281:ALA:HB1	1.72	0.71
1:A:214:VAL:HA	1:A:316:LYS:HG2	1.71	0.71
1:A:287:GLN:O	1:A:308:ARG:HA	1.89	0.71
1:C:510:LEU:HD13	1:C:511:ARG:N	2.05	0.71
1:D:241:ILE:HG23	1:D:269:LEU:HD21	1.71	0.71
1:G:13:LYS:N	1:G:13:LYS:HD2	2.04	0.71
1:K:258:LEU:CD2	1:L:251:ARG:HE	2.04	0.71
1:L:48:LEU:H	1:L:48:LEU:CD1	2.02	0.71
1:M:419:ALA:HB2	1:M:431:ARG:HB2	1.72	0.71
1:E:442:ARG:HH12	1:E:456:LEU:N	1.89	0.71
1:F:442:ARG:HH12	1:F:456:LEU:N	1.89	0.71
1:J:13:LYS:N	1:J:13:LYS:HD2	2.04	0.71
1:K:442:ARG:HH12	1:K:456:LEU:N	1.89	0.71
1:P:287:GLN:O	1:P:308:ARG:HA	1.89	0.71
1:P:489:VAL:HG13	1:P:492:LEU:HA	1.71	0.71
1:E:48:LEU:H	1:E:48:LEU:CD1	2.02	0.71
1:J:49:VAL:HG12	1:J:50:ASP:N	1.93	0.71
1:L:442:ARG:HH12	1:L:456:LEU:N	1.89	0.71
1:M:42:LYS:HZ3	1:M:446:GLU:HG3	1.55	0.71
1:N:510:LEU:HD13	1:N:511:ARG:N	2.05	0.71
1:P:214:VAL:HA	1:P:316:LYS:HG2	1.71	0.71
1:P:442:ARG:HH12	1:P:456:LEU:N	1.89	0.71
1:A:419:ALA:HB2	1:A:431:ARG:HB2	1.72	0.71
1:B:403:GLY:HA3	1:B:492:LEU:HD13	1.70	0.71
1:G:442:ARG:HH12	1:G:456:LEU:N	1.89	0.71
1:N:13:LYS:HD2	1:N:13:LYS:N	2.04	0.71
1:O:255:PRO:HD3	1:P:252:ILE:HA	1.71	0.71
1:P:419:ALA:HB2	1:P:431:ARG:HB2	1.72	0.71
1:A:208:LEU:HG	1:A:210:LYS:H	1.55	0.71
1:A:442:ARG:HH12	1:A:456:LEU:N	1.89	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:131:ALA:HA	1:B:134:LEU:HD13	1.70	0.71
1:B:241:ILE:HG23	1:B:269:LEU:HD21	1.71	0.71
1:C:169:LYS:HZ3	1:C:207:GLU:HG3	1.56	0.71
1:C:251:ARG:HE	1:D:258:LEU:CD2	2.03	0.71
1:D:42:LYS:HZ3	1:D:446:GLU:HG3	1.55	0.71
1:D:450:LEU:HD13	1:P:450:LEU:HD22	1.73	0.71
1:H:13:LYS:HD2	1:H:13:LYS:N	2.04	0.71
1:H:48:LEU:H	1:H:48:LEU:CD1	2.02	0.71
1:I:252:ILE:HA	1:P:255:PRO:HD3	1.72	0.71
1:J:419:ALA:HB2	1:J:431:ARG:HB2	1.72	0.71
1:J:442:ARG:HH12	1:J:456:LEU:N	1.89	0.71
1:P:241:ILE:HG23	1:P:269:LEU:HD21	1.71	0.71
1:A:450:LEU:HD22	1:M:450:LEU:HD13	1.73	0.71
1:B:155:MET:SD	1:B:158:ILE:HD11	2.31	0.71
1:B:252:ILE:HA	1:C:255:PRO:HD3	1.72	0.71
1:C:13:LYS:HD2	1:C:13:LYS:N	2.04	0.71
1:E:450:LEU:HD22	1:I:450:LEU:HD13	1.73	0.71
1:G:419:ALA:HB2	1:G:431:ARG:HB2	1.72	0.71
1:I:510:LEU:HD13	1:I:511:ARG:N	2.05	0.71
1:J:203:ILE:CG2	1:J:204:ASP:H	1.95	0.71
1:K:42:LYS:HZ3	1:K:446:GLU:HG3	1.54	0.71
1:L:233:ALA:HB2	1:L:281:ALA:HB1	1.72	0.71
1:D:233:ALA:HB2	1:D:281:ALA:HB1	1.72	0.71
1:D:442:ARG:HH12	1:D:456:LEU:N	1.89	0.71
1:G:49:VAL:HG12	1:G:50:ASP:N	1.93	0.71
1:H:450:LEU:HD13	1:L:450:LEU:HD22	1.73	0.71
1:I:48:LEU:H	1:I:48:LEU:CD1	2.02	0.71
1:N:255:PRO:HD3	1:O:252:ILE:HA	1.72	0.71
1:O:241:ILE:HG23	1:O:269:LEU:HD21	1.71	0.71
1:A:241:ILE:HG23	1:A:269:LEU:HD21	1.71	0.71
1:A:450:LEU:HD13	1:M:450:LEU:HD22	1.73	0.71
1:C:214:VAL:HA	1:C:316:LYS:HG2	1.71	0.71
1:G:251:ARG:HE	1:H:258:LEU:CD2	2.03	0.71
1:I:13:LYS:N	1:I:13:LYS:HD2	2.04	0.71
1:M:258:LEU:CD2	1:N:251:ARG:HE	2.04	0.71
1:O:258:LEU:CD2	1:P:251:ARG:HE	2.04	0.71
1:B:208:LEU:HG	1:B:210:LYS:H	1.55	0.70
1:B:450:LEU:HD22	1:N:450:LEU:HD13	1.73	0.70
1:C:241:ILE:HG23	1:C:269:LEU:HD21	1.71	0.70
1:D:450:LEU:HD22	1:P:450:LEU:HD13	1.73	0.70
1:E:48:LEU:HG	1:E:55:VAL:O	1.91	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:169:LYS:HZ3	1:E:207:GLU:HG3	1.56	0.70
1:E:233:ALA:HB2	1:E:281:ALA:HB1	1.72	0.70
1:G:42:LYS:HZ3	1:G:446:GLU:HG3	1.56	0.70
1:G:207:GLU:HA	1:G:369:ILE:HG21	1.73	0.70
1:H:510:LEU:HD13	1:H:511:ARG:N	2.05	0.70
1:M:233:ALA:HB2	1:M:281:ALA:HB1	1.72	0.70
1:M:442:ARG:HH12	1:M:456:LEU:N	1.89	0.70
1:N:48:LEU:HG	1:N:55:VAL:O	1.91	0.70
1:O:131:ALA:HA	1:O:134:LEU:HD13	1.70	0.70
1:A:255:PRO:HD3	1:H:252:ILE:HA	1.72	0.70
1:A:435:ASP:O	1:A:439:VAL:HG13	1.92	0.70
1:C:48:LEU:HG	1:C:55:VAL:O	1.91	0.70
1:C:252:ILE:HA	1:D:255:PRO:HD3	1.71	0.70
1:H:155:MET:SD	1:H:158:ILE:HD11	2.32	0.70
1:I:442:ARG:HH12	1:I:456:LEU:N	1.89	0.70
1:J:207:GLU:HA	1:J:369:ILE:HG21	1.73	0.70
1:L:48:LEU:HG	1:L:55:VAL:O	1.91	0.70
1:N:241:ILE:HG23	1:N:269:LEU:HD21	1.71	0.70
1:O:208:LEU:HG	1:O:210:LYS:H	1.56	0.70
1:O:286:CYS:SG	1:O:289:GLY:N	2.65	0.70
1:P:169:LYS:HZ3	1:P:207:GLU:HG3	1.56	0.70
1:P:208:LEU:HG	1:P:210:LYS:H	1.56	0.70
1:P:435:ASP:O	1:P:439:VAL:HG13	1.92	0.70
1:A:174:ILE:O	1:A:178:VAL:HG23	1.91	0.70
1:A:207:GLU:HA	1:A:369:ILE:HG21	1.73	0.70
1:A:489:VAL:HG13	1:A:492:LEU:HA	1.72	0.70
1:C:450:LEU:HD13	1:O:450:LEU:HD22	1.73	0.70
1:F:214:VAL:HA	1:F:316:LYS:HG2	1.71	0.70
1:H:207:GLU:HA	1:H:369:ILE:HG21	1.73	0.70
1:H:442:ARG:HH12	1:H:456:LEU:N	1.89	0.70
1:I:155:MET:SD	1:I:158:ILE:HD11	2.32	0.70
1:I:207:GLU:HA	1:I:369:ILE:HG21	1.73	0.70
1:I:258:LEU:CD2	1:J:251:ARG:HE	2.04	0.70
1:K:214:VAL:HA	1:K:316:LYS:HG2	1.71	0.70
1:K:286:CYS:SG	1:K:289:GLY:N	2.65	0.70
1:L:174:ILE:O	1:L:178:VAL:HG23	1.91	0.70
1:M:182:VAL:HG12	1:M:363:LYS:HG3	1.73	0.70
1:N:214:VAL:HA	1:N:316:LYS:HG2	1.71	0.70
1:P:48:LEU:HG	1:P:55:VAL:O	1.91	0.70
1:P:174:ILE:O	1:P:178:VAL:HG23	1.91	0.70
1:P:510:LEU:HD13	1:P:511:ARG:N	2.05	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:48:LEU:HG	1:A:55:VAL:O	1.91	0.70
1:A:510:LEU:HD13	1:A:511:ARG:N	2.05	0.70
1:B:286:CYS:SG	1:B:289:GLY:N	2.65	0.70
1:B:510:LEU:HD13	1:B:511:ARG:N	2.05	0.70
1:C:182:VAL:HG12	1:C:363:LYS:HG3	1.73	0.70
1:C:286:CYS:SG	1:C:289:GLY:N	2.65	0.70
1:D:182:VAL:HG12	1:D:363:LYS:HG3	1.73	0.70
1:D:435:ASP:O	1:D:439:VAL:HG13	1.91	0.70
1:E:286:CYS:SG	1:E:289:GLY:N	2.65	0.70
1:E:435:ASP:O	1:E:439:VAL:HG13	1.92	0.70
1:F:286:CYS:SG	1:F:289:GLY:N	2.65	0.70
1:H:419:ALA:HB2	1:H:431:ARG:HB2	1.72	0.70
1:K:48:LEU:HG	1:K:55:VAL:O	1.91	0.70
1:K:435:ASP:O	1:K:439:VAL:HG13	1.91	0.70
1:L:286:CYS:SG	1:L:289:GLY:N	2.65	0.70
1:M:174:ILE:O	1:M:178:VAL:HG23	1.91	0.70
1:M:255:PRO:HD3	1:N:252:ILE:HA	1.71	0.70
1:M:435:ASP:O	1:M:439:VAL:HG13	1.91	0.70
1:N:182:VAL:HG12	1:N:363:LYS:HG3	1.73	0.70
1:N:286:CYS:SG	1:N:289:GLY:N	2.65	0.70
1:O:155:MET:SD	1:O:158:ILE:HD11	2.32	0.70
1:A:155:MET:SD	1:A:158:ILE:HD11	2.32	0.70
1:B:442:ARG:HH12	1:B:456:LEU:N	1.89	0.70
1:C:442:ARG:HH12	1:C:456:LEU:N	1.89	0.70
1:D:103:LEU:HD12	1:D:433:PHE:CD1	2.26	0.70
1:E:174:ILE:O	1:E:178:VAL:HG23	1.91	0.70
1:F:48:LEU:HG	1:F:55:VAL:O	1.91	0.70
1:F:435:ASP:O	1:F:439:VAL:HG13	1.91	0.70
1:H:208:LEU:HG	1:H:210:LYS:H	1.56	0.70
1:I:208:LEU:HG	1:I:210:LYS:H	1.56	0.70
1:I:419:ALA:HB2	1:I:431:ARG:HB2	1.72	0.70
1:J:174:ILE:O	1:J:178:VAL:HG23	1.91	0.70
1:K:174:ILE:O	1:K:178:VAL:HG23	1.91	0.70
1:L:435:ASP:O	1:L:439:VAL:HG13	1.92	0.70
1:M:103:LEU:HD12	1:M:433:PHE:CD1	2.26	0.70
1:M:155:MET:SD	1:M:158:ILE:HD11	2.32	0.70
1:M:286:CYS:SG	1:M:289:GLY:N	2.65	0.70
1:P:155:MET:SD	1:P:158:ILE:HD11	2.32	0.70
1:P:207:GLU:HA	1:P:369:ILE:HG21	1.73	0.70
1:A:103:LEU:HD12	1:A:433:PHE:CD1	2.26	0.70
1:D:155:MET:SD	1:D:158:ILE:HD11	2.32	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:174:ILE:O	1:D:178:VAL:HG23	1.91	0.70
1:D:286:CYS:SG	1:D:289:GLY:N	2.65	0.70
1:E:103:LEU:HD12	1:E:433:PHE:CD1	2.26	0.70
1:F:174:ILE:O	1:F:178:VAL:HG23	1.91	0.70
1:G:155:MET:SD	1:G:158:ILE:HD11	2.32	0.70
1:G:174:ILE:O	1:G:178:VAL:HG23	1.91	0.70
1:H:103:LEU:HD12	1:H:433:PHE:CD1	2.26	0.70
1:H:194:LYS:HG2	1:H:195:ILE:HG12	1.73	0.70
1:H:286:CYS:SG	1:H:289:GLY:N	2.65	0.70
1:I:286:CYS:SG	1:I:289:GLY:N	2.65	0.70
1:K:208:LEU:HG	1:K:210:LYS:H	1.56	0.70
1:N:155:MET:SD	1:N:158:ILE:HD11	2.32	0.70
1:O:510:LEU:HD13	1:O:511:ARG:N	2.05	0.70
1:C:155:MET:SD	1:C:158:ILE:HD11	2.32	0.70
1:G:214:VAL:HA	1:G:316:LYS:HG2	1.71	0.70
1:H:435:ASP:O	1:H:439:VAL:HG13	1.91	0.70
1:H:469:LYS:O	1:H:480:VAL:HA	1.92	0.70
1:I:194:LYS:HG2	1:I:195:ILE:HG12	1.73	0.70
1:I:469:LYS:O	1:I:480:VAL:HA	1.92	0.70
1:J:214:VAL:HA	1:J:316:LYS:HG2	1.71	0.70
1:L:103:LEU:HD12	1:L:433:PHE:CD1	2.26	0.70
1:N:435:ASP:O	1:N:439:VAL:HG13	1.92	0.70
1:N:442:ARG:HH12	1:N:456:LEU:N	1.89	0.70
1:O:442:ARG:HH12	1:O:456:LEU:N	1.89	0.70
1:C:435:ASP:O	1:C:439:VAL:HG13	1.92	0.70
1:D:252:ILE:HA	1:E:255:PRO:HD3	1.72	0.70
1:E:233:ALA:CB	1:E:281:ALA:HB1	2.22	0.70
1:F:194:LYS:HG2	1:F:195:ILE:HG12	1.73	0.70
1:F:208:LEU:HG	1:F:210:LYS:H	1.56	0.70
1:I:103:LEU:HD12	1:I:433:PHE:CD1	2.26	0.70
1:I:233:ALA:HB2	1:I:281:ALA:HB1	1.72	0.70
1:J:155:MET:SD	1:J:158:ILE:HD11	2.32	0.70
1:K:194:LYS:HG2	1:K:195:ILE:HG12	1.73	0.70
1:L:214:VAL:HA	1:L:316:LYS:HG2	1.71	0.70
1:L:233:ALA:CB	1:L:281:ALA:HB1	2.22	0.70
1:L:255:PRO:HD3	1:M:252:ILE:HA	1.72	0.70
1:P:103:LEU:HD12	1:P:433:PHE:CD1	2.26	0.70
1:D:489:VAL:HG13	1:D:492:LEU:HA	1.74	0.70
1:E:182:VAL:HG12	1:E:363:LYS:HG3	1.73	0.70
1:E:214:VAL:HA	1:E:316:LYS:HG2	1.71	0.70
1:G:469:LYS:O	1:G:480:VAL:HA	1.92	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:489:VAL:HG13	1:H:492:LEU:HA	1.74	0.70
1:I:435:ASP:O	1:I:439:VAL:HG13	1.91	0.70
1:L:208:LEU:HG	1:L:210:LYS:H	1.56	0.70
1:M:48:LEU:HG	1:M:55:VAL:O	1.91	0.70
1:M:208:LEU:HG	1:M:210:LYS:H	1.56	0.70
1:M:489:VAL:HG13	1:M:492:LEU:HA	1.74	0.70
1:P:469:LYS:O	1:P:480:VAL:HA	1.92	0.70
1:A:469:LYS:O	1:A:480:VAL:HA	1.92	0.70
1:B:182:VAL:HG12	1:B:363:LYS:HG3	1.73	0.70
1:C:187:LYS:NZ	1:D:347:LYS:HG3	2.07	0.70
1:C:233:ALA:CB	1:C:281:ALA:HB1	2.22	0.70
1:D:233:ALA:CB	1:D:281:ALA:HB1	2.22	0.70
1:D:469:LYS:O	1:D:480:VAL:HA	1.92	0.70
1:E:208:LEU:HG	1:E:210:LYS:H	1.56	0.70
1:E:450:LEU:HD13	1:I:450:LEU:HD22	1.73	0.70
1:F:207:GLU:HA	1:F:369:ILE:HG21	1.73	0.70
1:J:469:LYS:O	1:J:480:VAL:HA	1.92	0.70
1:K:242:LYS:HD3	1:K:242:LYS:N	2.03	0.70
1:L:155:MET:SD	1:L:158:ILE:HD11	2.32	0.70
1:L:182:VAL:HG12	1:L:363:LYS:HG3	1.73	0.70
1:M:233:ALA:CB	1:M:281:ALA:HB1	2.22	0.70
1:N:174:ILE:O	1:N:178:VAL:HG23	1.91	0.70
1:N:233:ALA:CB	1:N:281:ALA:HB1	2.22	0.70
1:O:242:LYS:HD3	1:O:242:LYS:N	2.03	0.70
1:P:233:ALA:CA	1:P:281:ALA:HB1	2.22	0.70
1:A:233:ALA:CA	1:A:281:ALA:HB1	2.23	0.69
1:B:103:LEU:HD12	1:B:433:PHE:CD1	2.26	0.69
1:D:48:LEU:HG	1:D:55:VAL:O	1.91	0.69
1:D:208:LEU:HG	1:D:210:LYS:H	1.56	0.69
1:E:155:MET:SD	1:E:158:ILE:HD11	2.32	0.69
1:E:242:LYS:H	1:E:242:LYS:CD	2.02	0.69
1:G:103:LEU:HD12	1:G:433:PHE:CD1	2.26	0.69
1:H:233:ALA:HB2	1:H:281:ALA:HB1	1.72	0.69
1:I:489:VAL:HG13	1:I:492:LEU:HA	1.74	0.69
1:K:207:GLU:HA	1:K:369:ILE:HG21	1.73	0.69
1:M:347:LYS:HG3	1:N:187:LYS:NZ	2.07	0.69
1:M:469:LYS:O	1:M:480:VAL:HA	1.92	0.69
1:O:103:LEU:HD12	1:O:433:PHE:CD1	2.26	0.69
1:C:174:ILE:O	1:C:178:VAL:HG23	1.91	0.69
1:E:394:THR:HB	1:E:491:PRO:HB3	1.75	0.69
1:F:103:LEU:HD12	1:F:433:PHE:CD1	2.26	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:286:CYS:SG	1:G:289:GLY:N	2.65	0.69
1:H:48:LEU:HG	1:H:55:VAL:O	1.91	0.69
1:H:450:LEU:HD22	1:L:450:LEU:HD13	1.73	0.69
1:I:233:ALA:CA	1:I:281:ALA:HB1	2.22	0.69
1:J:103:LEU:HD12	1:J:433:PHE:CD1	2.26	0.69
1:J:208:LEU:HG	1:J:210:LYS:H	1.56	0.69
1:K:103:LEU:HD12	1:K:433:PHE:CD1	2.26	0.69
1:L:169:LYS:HZ3	1:L:207:GLU:HG3	1.57	0.69
1:L:394:THR:HB	1:L:491:PRO:HB3	1.75	0.69
1:O:182:VAL:HG12	1:O:363:LYS:HG3	1.73	0.69
1:B:242:LYS:HD3	1:B:242:LYS:N	2.03	0.69
1:C:208:LEU:HG	1:C:210:LYS:H	1.56	0.69
1:D:242:LYS:H	1:D:242:LYS:CD	2.01	0.69
1:F:242:LYS:HD3	1:F:242:LYS:N	2.03	0.69
1:F:469:LYS:O	1:F:480:VAL:HA	1.92	0.69
1:H:174:ILE:O	1:H:178:VAL:HG23	1.91	0.69
1:H:233:ALA:CA	1:H:281:ALA:HB1	2.22	0.69
1:J:233:ALA:CA	1:J:281:ALA:HB1	2.22	0.69
1:M:242:LYS:H	1:M:242:LYS:CD	2.01	0.69
1:N:208:LEU:HG	1:N:210:LYS:H	1.56	0.69
1:C:303:ILE:HG13	1:C:304:VAL:H	1.58	0.69
1:D:233:ALA:CA	1:D:281:ALA:HB1	2.22	0.69
1:F:155:MET:SD	1:F:158:ILE:HD11	2.32	0.69
1:F:182:VAL:HG12	1:F:363:LYS:HG3	1.73	0.69
1:G:48:LEU:HG	1:G:55:VAL:O	1.91	0.69
1:G:233:ALA:CA	1:G:281:ALA:HB1	2.22	0.69
1:I:48:LEU:HG	1:I:55:VAL:O	1.91	0.69
1:J:286:CYS:SG	1:J:289:GLY:N	2.65	0.69
1:K:182:VAL:HG12	1:K:363:LYS:HG3	1.73	0.69
1:K:489:VAL:HG13	1:K:492:LEU:HA	1.74	0.69
1:M:233:ALA:CA	1:M:281:ALA:HB1	2.22	0.69
1:N:303:ILE:HG13	1:N:304:VAL:H	1.58	0.69
1:O:48:LEU:HG	1:O:55:VAL:O	1.91	0.69
1:O:469:LYS:O	1:O:480:VAL:HA	1.92	0.69
1:O:489:VAL:HG13	1:O:492:LEU:HA	1.74	0.69
1:A:286:CYS:SG	1:A:289:GLY:N	2.65	0.69
1:B:469:LYS:O	1:B:480:VAL:HA	1.92	0.69
1:C:103:LEU:HD12	1:C:433:PHE:CD1	2.26	0.69
1:D:394:THR:HB	1:D:491:PRO:HB3	1.75	0.69
1:F:192:LEU:HD12	1:F:193:ILE:N	2.08	0.69
1:F:394:THR:HB	1:F:491:PRO:HB3	1.75	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:450:LEU:HD22	1:J:450:LEU:HD13	1.73	0.69
1:G:208:LEU:HG	1:G:210:LYS:H	1.56	0.69
1:I:174:ILE:O	1:I:178:VAL:HG23	1.91	0.69
1:I:182:VAL:HG12	1:I:363:LYS:HG3	1.73	0.69
1:I:242:LYS:H	1:I:242:LYS:CD	2.01	0.69
1:K:394:THR:HB	1:K:491:PRO:HB3	1.75	0.69
1:K:469:LYS:O	1:K:480:VAL:HA	1.92	0.69
1:L:233:ALA:HB3	1:L:283:VAL:CG1	2.22	0.69
1:N:194:LYS:HG2	1:N:195:ILE:HG12	1.73	0.69
1:O:233:ALA:CB	1:O:281:ALA:HB1	2.22	0.69
1:A:233:ALA:HB3	1:A:283:VAL:CG1	2.22	0.69
1:B:233:ALA:CB	1:B:281:ALA:HB1	2.22	0.69
1:C:194:LYS:HG2	1:C:195:ILE:HG12	1.73	0.69
1:C:469:LYS:O	1:C:480:VAL:HA	1.92	0.69
1:E:233:ALA:HB3	1:E:283:VAL:CG1	2.22	0.69
1:F:489:VAL:HG13	1:F:492:LEU:HA	1.74	0.69
1:H:182:VAL:HG12	1:H:363:LYS:HG3	1.73	0.69
1:H:242:LYS:H	1:H:242:LYS:CD	2.01	0.69
1:J:48:LEU:HG	1:J:55:VAL:O	1.91	0.69
1:K:192:LEU:HD12	1:K:193:ILE:N	2.08	0.69
1:M:394:THR:HB	1:M:491:PRO:HB3	1.75	0.69
1:N:103:LEU:HD12	1:N:433:PHE:CD1	2.26	0.69
1:N:469:LYS:O	1:N:480:VAL:HA	1.92	0.69
1:O:435:ASP:O	1:O:439:VAL:HG13	1.91	0.69
1:P:286:CYS:SG	1:P:289:GLY:N	2.65	0.69
1:A:303:ILE:HG13	1:A:304:VAL:H	1.58	0.69
1:B:233:ALA:CA	1:B:281:ALA:HB1	2.22	0.69
1:B:450:LEU:HD13	1:N:450:LEU:HD22	1.73	0.69
1:C:207:GLU:HA	1:C:369:ILE:HG21	1.73	0.69
1:F:233:ALA:CB	1:F:281:ALA:HB1	2.22	0.69
1:G:303:ILE:HG13	1:G:304:VAL:H	1.58	0.69
1:G:394:THR:HB	1:G:491:PRO:HB3	1.75	0.69
1:G:450:LEU:HD13	1:K:450:LEU:HD22	1.73	0.69
1:J:394:THR:HB	1:J:491:PRO:HB3	1.75	0.69
1:K:233:ALA:CA	1:K:281:ALA:HB1	2.22	0.69
1:M:169:LYS:HZ3	1:M:207:GLU:HG3	1.57	0.69
1:O:307:ARG:HG2	1:O:307:ARG:HH11	1.58	0.69
1:P:192:LEU:HD12	1:P:193:ILE:N	2.08	0.69
1:P:233:ALA:HB3	1:P:283:VAL:CG1	2.22	0.69
1:A:233:ALA:CB	1:A:281:ALA:HB1	2.22	0.69
1:A:391:VAL:O	1:A:395:ILE:HG23	1.93	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:187:LYS:NZ	1:C:347:LYS:HG3	2.07	0.69
1:B:233:ALA:HB3	1:B:283:VAL:CG1	2.22	0.69
1:B:307:ARG:HH11	1:B:307:ARG:HG2	1.58	0.69
1:B:435:ASP:O	1:B:439:VAL:HG13	1.92	0.69
1:C:391:VAL:O	1:C:395:ILE:HG23	1.93	0.69
1:C:450:LEU:HD22	1:O:450:LEU:HD13	1.73	0.69
1:D:194:LYS:HG2	1:D:195:ILE:HG12	1.73	0.69
1:E:192:LEU:HD12	1:E:193:ILE:N	2.08	0.69
1:E:224:PRO:CA	1:E:304:VAL:HG11	2.23	0.69
1:E:303:ILE:HG13	1:E:304:VAL:H	1.58	0.69
1:E:469:LYS:O	1:E:480:VAL:HA	1.92	0.69
1:F:233:ALA:CA	1:F:281:ALA:HB1	2.22	0.69
1:F:233:ALA:HA	1:F:281:ALA:HB1	1.75	0.69
1:F:450:LEU:HD13	1:J:450:LEU:HD22	1.73	0.69
1:G:182:VAL:HG12	1:G:363:LYS:HG3	1.73	0.69
1:G:192:LEU:HD12	1:G:193:ILE:N	2.08	0.69
1:G:233:ALA:CB	1:G:281:ALA:HB1	2.22	0.69
1:H:192:LEU:HD12	1:H:193:ILE:N	2.08	0.69
1:H:233:ALA:HA	1:H:281:ALA:HB1	1.75	0.69
1:H:357:GLU:H	1:H:357:GLU:CD	2.01	0.69
1:H:391:VAL:O	1:H:395:ILE:HG23	1.93	0.69
1:I:192:LEU:HD12	1:I:193:ILE:N	2.08	0.69
1:I:233:ALA:HA	1:I:281:ALA:HB1	1.75	0.69
1:I:391:VAL:O	1:I:395:ILE:HG23	1.93	0.69
1:J:182:VAL:HG12	1:J:363:LYS:HG3	1.73	0.69
1:J:192:LEU:HD12	1:J:193:ILE:N	2.08	0.69
1:J:233:ALA:CB	1:J:281:ALA:HB1	2.22	0.69
1:J:303:ILE:HG13	1:J:304:VAL:H	1.58	0.69
1:K:155:MET:SD	1:K:158:ILE:HD11	2.32	0.69
1:K:233:ALA:CB	1:K:281:ALA:HB1	2.22	0.69
1:K:233:ALA:HA	1:K:281:ALA:HB1	1.75	0.69
1:L:224:PRO:CA	1:L:304:VAL:HG11	2.23	0.69
1:M:194:LYS:HG2	1:M:195:ILE:HG12	1.73	0.69
1:N:207:GLU:HA	1:N:369:ILE:HG21	1.73	0.69
1:N:391:VAL:O	1:N:395:ILE:HG23	1.93	0.69
1:O:207:GLU:HA	1:O:369:ILE:HG21	1.73	0.69
1:O:233:ALA:HB3	1:O:283:VAL:CG1	2.22	0.69
1:O:391:VAL:O	1:O:395:ILE:HG23	1.93	0.69
1:P:233:ALA:HA	1:P:281:ALA:HB1	1.75	0.69
1:P:303:ILE:HG13	1:P:304:VAL:H	1.58	0.69
1:P:391:VAL:O	1:P:395:ILE:HG23	1.93	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:192:LEU:HD12	1:A:193:ILE:N	2.08	0.69
1:B:194:LYS:HG2	1:B:195:ILE:HG12	1.73	0.69
1:B:207:GLU:HA	1:B:369:ILE:HG21	1.73	0.69
1:C:394:THR:HB	1:C:491:PRO:HB3	1.75	0.69
1:E:233:ALA:HA	1:E:281:ALA:HB1	1.75	0.69
1:G:233:ALA:HB3	1:G:283:VAL:CG1	2.22	0.69
1:G:391:VAL:O	1:G:395:ILE:HG23	1.93	0.69
1:H:267:LYS:O	1:H:270:LYS:HG2	1.93	0.69
1:I:267:LYS:O	1:I:270:LYS:HG2	1.93	0.69
1:I:357:GLU:CD	1:I:357:GLU:H	2.01	0.69
1:J:233:ALA:HB3	1:J:283:VAL:CG1	2.22	0.69
1:J:391:VAL:O	1:J:395:ILE:HG23	1.93	0.69
1:L:192:LEU:HD12	1:L:193:ILE:N	2.08	0.69
1:L:303:ILE:HG13	1:L:304:VAL:H	1.58	0.69
1:L:469:LYS:O	1:L:480:VAL:HA	1.92	0.69
1:N:233:ALA:CA	1:N:281:ALA:HB1	2.22	0.69
1:O:192:LEU:HD12	1:O:193:ILE:N	2.08	0.69
1:O:194:LYS:HG2	1:O:195:ILE:HG12	1.73	0.69
1:A:233:ALA:HA	1:A:281:ALA:HB1	1.75	0.69
1:B:48:LEU:HG	1:B:55:VAL:C	2.18	0.69
1:B:174:ILE:O	1:B:178:VAL:HG23	1.91	0.69
1:B:192:LEU:HD12	1:B:193:ILE:N	2.08	0.69
1:C:233:ALA:CA	1:C:281:ALA:HB1	2.22	0.69
1:D:267:LYS:O	1:D:270:LYS:HG2	1.93	0.69
1:E:391:VAL:O	1:E:395:ILE:HG23	1.93	0.69
1:J:233:ALA:HA	1:J:281:ALA:HB1	1.75	0.69
1:J:435:ASP:O	1:J:439:VAL:HG13	1.92	0.69
1:L:233:ALA:HA	1:L:281:ALA:HB1	1.75	0.69
1:L:242:LYS:HD3	1:L:242:LYS:N	2.03	0.69
1:L:391:VAL:O	1:L:395:ILE:HG23	1.93	0.69
1:M:267:LYS:O	1:M:270:LYS:HG2	1.93	0.69
1:M:307:ARG:HH11	1:M:307:ARG:HG2	1.58	0.69
1:N:192:LEU:HD12	1:N:193:ILE:N	2.08	0.69
1:N:224:PRO:CA	1:N:304:VAL:HG11	2.23	0.69
1:N:347:LYS:HG3	1:O:187:LYS:NZ	2.07	0.69
1:N:394:THR:HB	1:N:491:PRO:HB3	1.75	0.69
1:O:174:ILE:O	1:O:178:VAL:HG23	1.91	0.69
1:O:233:ALA:CA	1:O:281:ALA:HB1	2.22	0.69
1:P:233:ALA:CB	1:P:281:ALA:HB1	2.22	0.69
1:B:48:LEU:HG	1:B:55:VAL:O	1.92	0.68
1:C:192:LEU:HD12	1:C:193:ILE:N	2.08	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:233:ALA:HB3	1:D:283:VAL:CG1	2.22	0.68
1:D:307:ARG:HG2	1:D:307:ARG:HH11	1.58	0.68
1:E:207:GLU:HA	1:E:369:ILE:HG21	1.73	0.68
1:E:233:ALA:CA	1:E:281:ALA:HB1	2.22	0.68
1:G:233:ALA:HA	1:G:281:ALA:HB1	1.75	0.68
1:G:450:LEU:HD22	1:K:450:LEU:HD13	1.73	0.68
1:I:224:PRO:CA	1:I:304:VAL:HG11	2.23	0.68
1:I:520:LYS:HG2	1:P:67:GLU:OE1	1.94	0.68
1:K:233:ALA:HB3	1:K:283:VAL:CG1	2.22	0.68
1:O:267:LYS:O	1:O:270:LYS:HG2	1.93	0.68
1:A:45:ASP:HB3	1:H:512:ILE:CD1	2.23	0.68
1:A:67:GLU:OE1	1:H:520:LYS:HG2	1.94	0.68
1:A:182:VAL:HG12	1:A:363:LYS:HG3	1.73	0.68
1:B:267:LYS:O	1:B:270:LYS:HG2	1.93	0.68
1:B:520:LYS:HG2	1:C:67:GLU:OE1	1.93	0.68
1:C:224:PRO:CA	1:C:304:VAL:HG11	2.23	0.68
1:E:48:LEU:HG	1:E:55:VAL:C	2.19	0.68
1:G:435:ASP:O	1:G:439:VAL:HG13	1.92	0.68
1:G:512:ILE:CD1	1:H:45:ASP:HB3	2.24	0.68
1:H:224:PRO:CA	1:H:304:VAL:HG11	2.23	0.68
1:I:45:ASP:HB3	1:J:512:ILE:CD1	2.24	0.68
1:I:233:ALA:HB3	1:I:283:VAL:CG1	2.22	0.68
1:I:251:ARG:NH1	1:P:258:LEU:HD13	2.08	0.68
1:I:512:ILE:CD1	1:P:45:ASP:HB3	2.23	0.68
1:J:258:LEU:HD13	1:K:251:ARG:NH1	2.08	0.68
1:K:169:LYS:HZ3	1:K:207:GLU:HG3	1.57	0.68
1:K:273:VAL:HB	1:K:298:LEU:HD13	1.75	0.68
1:L:48:LEU:HG	1:L:55:VAL:C	2.19	0.68
1:L:207:GLU:HA	1:L:369:ILE:HG21	1.73	0.68
1:L:233:ALA:CA	1:L:281:ALA:HB1	2.22	0.68
1:M:233:ALA:HB3	1:M:283:VAL:CG1	2.22	0.68
1:B:251:ARG:HE	1:C:258:LEU:HD21	1.59	0.68
1:C:48:LEU:HG	1:C:55:VAL:C	2.19	0.68
1:C:267:LYS:O	1:C:270:LYS:HG2	1.93	0.68
1:E:42:LYS:HZ3	1:E:446:GLU:HG3	1.59	0.68
1:E:242:LYS:HD3	1:E:242:LYS:N	2.03	0.68
1:F:233:ALA:HB3	1:F:283:VAL:CG1	2.22	0.68
1:F:273:VAL:HB	1:F:298:LEU:HD13	1.75	0.68
1:G:194:LYS:HG2	1:G:195:ILE:HG12	1.73	0.68
1:H:233:ALA:HB3	1:H:283:VAL:CG1	2.22	0.68
1:J:194:LYS:HG2	1:J:195:ILE:HG12	1.73	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:273:VAL:HB	1:J:298:LEU:HD13	1.75	0.68
1:L:42:LYS:HZ3	1:L:446:GLU:HG3	1.59	0.68
1:B:233:ALA:HA	1:B:281:ALA:HB1	1.75	0.68
1:B:512:ILE:CD1	1:C:45:ASP:HB3	2.23	0.68
1:D:207:GLU:HA	1:D:369:ILE:HG21	1.73	0.68
1:E:194:LYS:HG2	1:E:195:ILE:HG12	1.73	0.68
1:E:273:VAL:HB	1:E:298:LEU:HD13	1.75	0.68
1:F:251:ARG:NH1	1:G:258:LEU:HD13	2.09	0.68
1:F:520:LYS:HG2	1:G:67:GLU:OE1	1.94	0.68
1:G:273:VAL:HB	1:G:298:LEU:HD13	1.75	0.68
1:J:67:GLU:OE1	1:K:520:LYS:HG2	1.94	0.68
1:L:273:VAL:HB	1:L:298:LEU:HD13	1.75	0.68
1:M:192:LEU:HD12	1:M:193:ILE:N	2.08	0.68
1:N:48:LEU:HG	1:N:55:VAL:C	2.19	0.68
1:N:67:GLU:OE1	1:O:520:LYS:HG2	1.93	0.68
1:N:267:LYS:O	1:N:270:LYS:HG2	1.93	0.68
1:O:233:ALA:HA	1:O:281:ALA:HB1	1.75	0.68
1:O:357:GLU:H	1:O:357:GLU:CD	2.01	0.68
1:P:182:VAL:HG12	1:P:363:LYS:HG3	1.73	0.68
1:B:303:ILE:HG13	1:B:304:VAL:H	1.58	0.68
1:D:192:LEU:HD12	1:D:193:ILE:N	2.08	0.68
1:E:267:LYS:O	1:E:270:LYS:HG2	1.93	0.68
1:H:233:ALA:CB	1:H:281:ALA:HB1	2.22	0.68
1:I:233:ALA:CB	1:I:281:ALA:HB1	2.22	0.68
1:L:194:LYS:HG2	1:L:195:ILE:HG12	1.73	0.68
1:L:267:LYS:O	1:L:270:LYS:HG2	1.93	0.68
1:M:67:GLU:OE1	1:N:520:LYS:HG2	1.94	0.68
1:N:45:ASP:HB3	1:O:512:ILE:CD1	2.23	0.68
1:O:45:ASP:HB3	1:P:512:ILE:CD1	2.24	0.68
1:A:512:ILE:CD1	1:B:45:ASP:HB3	2.24	0.68
1:C:42:LYS:HZ3	1:C:446:GLU:HG3	1.58	0.68
1:D:233:ALA:HA	1:D:281:ALA:HB1	1.75	0.68
1:F:391:VAL:O	1:F:395:ILE:HG23	1.93	0.68
1:F:512:ILE:CD1	1:G:45:ASP:HB3	2.23	0.68
1:G:267:LYS:O	1:G:270:LYS:HG2	1.93	0.68
1:I:307:ARG:HG2	1:I:307:ARG:HH11	1.58	0.68
1:K:303:ILE:HG13	1:K:304:VAL:H	1.58	0.68
1:M:207:GLU:HA	1:M:369:ILE:HG21	1.73	0.68
1:M:233:ALA:HA	1:M:281:ALA:HB1	1.75	0.68
1:N:233:ALA:HA	1:N:281:ALA:HB1	1.75	0.68
1:O:48:LEU:HG	1:O:55:VAL:C	2.19	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:267:LYS:O	1:P:270:LYS:HG2	1.93	0.68
1:A:267:LYS:O	1:A:270:LYS:HG2	1.93	0.68
1:C:230:ALA:CB	1:C:303:ILE:HD13	2.24	0.68
1:C:307:ARG:HG2	1:C:307:ARG:HH11	1.58	0.68
1:C:520:LYS:HG2	1:D:67:GLU:OE1	1.94	0.68
1:E:512:ILE:CD1	1:F:45:ASP:HB3	2.24	0.68
1:F:357:GLU:CD	1:F:357:GLU:H	2.01	0.68
1:H:307:ARG:HG2	1:H:307:ARG:HH11	1.58	0.68
1:J:45:ASP:HB3	1:K:512:ILE:CD1	2.23	0.68
1:J:267:LYS:O	1:J:270:LYS:HG2	1.93	0.68
1:J:357:GLU:H	1:J:357:GLU:CD	2.01	0.68
1:L:45:ASP:HB3	1:M:512:ILE:CD1	2.23	0.68
1:L:230:ALA:CB	1:L:303:ILE:HD13	2.24	0.68
1:N:230:ALA:CB	1:N:303:ILE:HD13	2.24	0.68
1:O:394:THR:HB	1:O:491:PRO:HB3	1.75	0.68
1:B:357:GLU:H	1:B:357:GLU:CD	2.01	0.68
1:C:233:ALA:HA	1:C:281:ALA:HB1	1.75	0.68
1:C:249:GLU:HB3	1:D:251:ARG:H	1.59	0.68
1:C:357:GLU:CD	1:C:357:GLU:H	2.01	0.68
1:D:251:ARG:HE	1:E:258:LEU:HD21	1.58	0.68
1:D:512:ILE:CD1	1:E:45:ASP:HB3	2.23	0.68
1:D:520:LYS:HG2	1:E:67:GLU:OE1	1.94	0.68
1:E:230:ALA:CB	1:E:303:ILE:HD13	2.24	0.68
1:E:515:VAL:O	1:E:516:ILE:HG22	1.94	0.68
1:F:249:GLU:HB3	1:G:251:ARG:H	1.58	0.68
1:F:436:ALA:HA	1:F:439:VAL:HG22	1.76	0.68
1:G:48:LEU:HG	1:G:55:VAL:C	2.19	0.68
1:J:48:LEU:HG	1:J:55:VAL:C	2.19	0.68
1:K:45:ASP:HB3	1:L:512:ILE:CD1	2.24	0.68
1:K:251:ARG:H	1:L:249:GLU:HB3	1.59	0.68
1:K:391:VAL:O	1:K:395:ILE:HG23	1.93	0.68
1:K:436:ALA:HA	1:K:439:VAL:HG22	1.76	0.68
1:L:67:GLU:OE1	1:M:520:LYS:HG2	1.94	0.68
1:L:515:VAL:O	1:L:516:ILE:HG22	1.94	0.68
1:O:303:ILE:HG13	1:O:304:VAL:H	1.58	0.68
1:A:242:LYS:H	1:A:242:LYS:CD	2.01	0.68
1:A:251:ARG:NH1	1:B:258:LEU:HD13	2.09	0.68
1:D:251:ARG:NH1	1:E:258:LEU:HD13	2.09	0.68
1:E:307:ARG:HG2	1:E:307:ARG:HH11	1.58	0.68
1:F:303:ILE:HG13	1:F:304:VAL:H	1.58	0.68
1:L:258:LEU:HD13	1:M:251:ARG:NH1	2.08	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:48:LEU:HG	1:M:55:VAL:C	2.19	0.68
1:M:251:ARG:H	1:N:249:GLU:HB3	1.59	0.68
1:M:273:VAL:HB	1:M:298:LEU:HD13	1.75	0.68
1:N:258:LEU:HD21	1:O:251:ARG:HE	1.59	0.68
1:N:307:ARG:HG2	1:N:307:ARG:HH11	1.58	0.68
1:O:224:PRO:CA	1:O:304:VAL:HG11	2.23	0.68
1:P:194:LYS:HG2	1:P:195:ILE:HG12	1.73	0.68
1:A:194:LYS:HG2	1:A:195:ILE:HG12	1.73	0.68
1:A:394:THR:HB	1:A:491:PRO:HB3	1.75	0.68
1:B:224:PRO:CA	1:B:304:VAL:HG11	2.23	0.68
1:C:233:ALA:HB3	1:C:283:VAL:CG1	2.22	0.68
1:D:48:LEU:HG	1:D:55:VAL:C	2.19	0.68
1:D:273:VAL:HB	1:D:298:LEU:HD13	1.75	0.68
1:E:249:GLU:HB3	1:F:251:ARG:H	1.59	0.68
1:F:515:VAL:O	1:F:516:ILE:HG22	1.94	0.68
1:H:303:ILE:HG13	1:H:304:VAL:H	1.58	0.68
1:H:394:THR:HB	1:H:491:PRO:HB3	1.75	0.68
1:H:515:VAL:O	1:H:516:ILE:HG22	1.94	0.68
1:I:394:THR:HB	1:I:491:PRO:HB3	1.75	0.68
1:J:436:ALA:HA	1:J:439:VAL:HG22	1.76	0.68
1:K:190:LYS:HA	1:K:193:ILE:HD11	1.76	0.68
1:K:357:GLU:CD	1:K:357:GLU:H	2.01	0.68
1:K:515:VAL:O	1:K:516:ILE:HG22	1.94	0.68
1:N:233:ALA:HB3	1:N:283:VAL:CG1	2.22	0.68
1:P:242:LYS:H	1:P:242:LYS:CD	2.01	0.68
1:P:394:THR:HB	1:P:491:PRO:HB3	1.75	0.68
1:A:187:LYS:NZ	1:B:347:LYS:HG3	2.07	0.67
1:D:357:GLU:CD	1:D:357:GLU:H	2.01	0.67
1:D:469:LYS:HZ3	1:D:486:ASN:HB3	1.59	0.67
1:F:48:LEU:HG	1:F:55:VAL:C	2.19	0.67
1:F:190:LYS:HA	1:F:193:ILE:HD11	1.76	0.67
1:G:190:LYS:HA	1:G:193:ILE:HD11	1.76	0.67
1:G:436:ALA:HA	1:G:439:VAL:HG22	1.76	0.67
1:G:520:LYS:HG2	1:H:67:GLU:OE1	1.94	0.67
1:H:169:LYS:HZ3	1:H:207:GLU:HG3	1.59	0.67
1:I:273:VAL:HB	1:I:298:LEU:HD13	1.75	0.67
1:J:190:LYS:HA	1:J:193:ILE:HD11	1.76	0.67
1:J:251:ARG:H	1:K:249:GLU:HB3	1.59	0.67
1:J:515:VAL:O	1:J:516:ILE:HG22	1.94	0.67
1:K:48:LEU:HG	1:K:55:VAL:C	2.19	0.67
1:L:307:ARG:HG2	1:L:307:ARG:HH11	1.58	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:357:GLU:H	1:M:357:GLU:CD	2.01	0.67
1:N:242:LYS:H	1:N:242:LYS:CD	2.01	0.67
1:N:258:LEU:HD13	1:O:251:ARG:NH1	2.08	0.67
1:A:357:GLU:CD	1:A:357:GLU:H	2.01	0.67
1:A:425:ARG:HG3	1:A:426:GLU:N	2.10	0.67
1:C:96:ALA:O	1:C:99:VAL:HG12	1.95	0.67
1:C:425:ARG:HG3	1:C:426:GLU:N	2.10	0.67
1:D:190:LYS:HA	1:D:193:ILE:HD11	1.76	0.67
1:D:230:ALA:CB	1:D:303:ILE:HD13	2.24	0.67
1:E:13:LYS:HD2	1:E:13:LYS:H	1.59	0.67
1:E:425:ARG:HG3	1:E:426:GLU:N	2.10	0.67
1:G:251:ARG:NH1	1:H:258:LEU:HD13	2.10	0.67
1:G:357:GLU:H	1:G:357:GLU:CD	2.01	0.67
1:G:425:ARG:HG3	1:G:426:GLU:N	2.10	0.67
1:G:515:VAL:O	1:G:516:ILE:HG22	1.94	0.67
1:H:273:VAL:HB	1:H:298:LEU:HD13	1.75	0.67
1:H:425:ARG:HG3	1:H:426:GLU:H	1.60	0.67
1:I:67:GLU:OE1	1:J:520:LYS:HG2	1.94	0.67
1:I:303:ILE:HG13	1:I:304:VAL:H	1.58	0.67
1:I:425:ARG:HG3	1:I:426:GLU:H	1.60	0.67
1:I:515:VAL:O	1:I:516:ILE:HG22	1.94	0.67
1:J:425:ARG:HG3	1:J:426:GLU:N	2.10	0.67
1:K:13:LYS:HD2	1:K:13:LYS:H	1.59	0.67
1:K:307:ARG:HG2	1:K:307:ARG:HH11	1.58	0.67
1:L:13:LYS:HD2	1:L:13:LYS:H	1.59	0.67
1:L:425:ARG:HG3	1:L:426:GLU:N	2.10	0.67
1:M:45:ASP:HB3	1:N:512:ILE:CD1	2.24	0.67
1:N:357:GLU:CD	1:N:357:GLU:H	2.01	0.67
1:P:425:ARG:HG3	1:P:426:GLU:N	2.10	0.67
1:A:251:ARG:HE	1:B:258:LEU:HD21	1.59	0.67
1:A:258:LEU:HD13	1:H:251:ARG:NH1	2.09	0.67
1:A:307:ARG:HG2	1:A:307:ARG:HH11	1.58	0.67
1:A:425:ARG:HG3	1:A:426:GLU:H	1.60	0.67
1:C:512:ILE:CD1	1:D:45:ASP:HB3	2.24	0.67
1:D:391:VAL:O	1:D:395:ILE:HG23	1.93	0.67
1:E:251:ARG:NH1	1:F:258:LEU:HD13	2.10	0.67
1:F:13:LYS:HD2	1:F:13:LYS:H	1.59	0.67
1:G:250:ILE:HD12	1:H:250:ILE:HD11	1.76	0.67
1:I:258:LEU:HD13	1:J:251:ARG:NH1	2.10	0.67
1:K:224:PRO:CA	1:K:304:VAL:HG11	2.23	0.67
1:M:190:LYS:HA	1:M:193:ILE:HD11	1.76	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:230:ALA:CB	1:M:303:ILE:HD13	2.24	0.67
1:N:96:ALA:O	1:N:99:VAL:HG12	1.95	0.67
1:N:425:ARG:HG3	1:N:426:GLU:N	2.10	0.67
1:O:67:GLU:OE1	1:P:520:LYS:HG2	1.94	0.67
1:O:347:LYS:HG3	1:P:187:LYS:NZ	2.07	0.67
1:P:48:LEU:HG	1:P:55:VAL:C	2.19	0.67
1:A:273:VAL:HB	1:A:298:LEU:HD13	1.75	0.67
1:A:520:LYS:HG2	1:B:67:GLU:OE1	1.93	0.67
1:C:242:LYS:H	1:C:242:LYS:CD	2.01	0.67
1:D:96:ALA:O	1:D:99:VAL:HG12	1.95	0.67
1:E:96:ALA:O	1:E:99:VAL:HG12	1.95	0.67
1:F:307:ARG:HG2	1:F:307:ARG:HH11	1.58	0.67
1:G:7:VAL:C	1:G:9:PRO:HD3	2.20	0.67
1:I:169:LYS:HZ3	1:I:207:GLU:HG3	1.59	0.67
1:J:7:VAL:C	1:J:9:PRO:HD3	2.20	0.67
1:J:242:LYS:HD3	1:J:242:LYS:N	2.03	0.67
1:K:96:ALA:O	1:K:99:VAL:HG12	1.95	0.67
1:L:96:ALA:O	1:L:99:VAL:HG12	1.95	0.67
1:M:96:ALA:O	1:M:99:VAL:HG12	1.95	0.67
1:O:258:LEU:HD13	1:P:251:ARG:NH1	2.10	0.67
1:P:425:ARG:HG3	1:P:426:GLU:H	1.60	0.67
1:A:48:LEU:HG	1:A:55:VAL:C	2.19	0.67
1:C:251:ARG:NH1	1:D:258:LEU:HD13	2.10	0.67
1:D:13:LYS:HD2	1:D:13:LYS:H	1.59	0.67
1:F:96:ALA:O	1:F:99:VAL:HG12	1.95	0.67
1:F:169:LYS:HZ3	1:F:207:GLU:HG3	1.59	0.67
1:F:224:PRO:CA	1:F:304:VAL:HG11	2.23	0.67
1:F:230:ALA:CB	1:F:303:ILE:HD13	2.24	0.67
1:G:251:ARG:HE	1:H:258:LEU:HD21	1.60	0.67
1:G:425:ARG:HG3	1:G:426:GLU:H	1.60	0.67
1:I:436:ALA:HA	1:I:439:VAL:HG22	1.76	0.67
1:J:425:ARG:HG3	1:J:426:GLU:H	1.60	0.67
1:K:258:LEU:HD13	1:L:251:ARG:NH1	2.10	0.67
1:M:13:LYS:HD2	1:M:13:LYS:H	1.59	0.67
1:M:391:VAL:O	1:M:395:ILE:HG23	1.93	0.67
1:O:230:ALA:CB	1:O:303:ILE:HD13	2.24	0.67
1:A:177:ALA:HB2	1:A:388:VAL:HG23	1.77	0.67
1:A:250:ILE:HD12	1:B:250:ILE:HD11	1.76	0.67
1:B:96:ALA:O	1:B:99:VAL:HG12	1.95	0.67
1:B:187:LYS:CE	1:C:347:LYS:HZ3	2.07	0.67
1:B:230:ALA:CB	1:B:303:ILE:HD13	2.24	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:273:VAL:HB	1:B:298:LEU:HD13	1.75	0.67
1:B:425:ARG:HG3	1:B:426:GLU:H	1.59	0.67
1:E:436:ALA:HA	1:E:439:VAL:HG22	1.76	0.67
1:F:267:LYS:O	1:F:270:LYS:HG2	1.93	0.67
1:H:436:ALA:HA	1:H:439:VAL:HG22	1.76	0.67
1:I:251:ARG:H	1:J:249:GLU:HB3	1.59	0.67
1:L:258:LEU:HD21	1:M:251:ARG:HE	1.59	0.67
1:M:258:LEU:HD13	1:N:251:ARG:NH1	2.10	0.67
1:M:303:ILE:HG13	1:M:304:VAL:H	1.58	0.67
1:M:425:ARG:HG3	1:M:426:GLU:H	1.60	0.67
1:A:230:ALA:CB	1:A:303:ILE:HD13	2.24	0.67
1:B:436:ALA:HA	1:B:439:VAL:HG22	1.76	0.67
1:D:425:ARG:HG3	1:D:426:GLU:H	1.60	0.67
1:E:7:VAL:C	1:E:9:PRO:HD3	2.20	0.67
1:G:242:LYS:HD3	1:G:242:LYS:N	2.03	0.67
1:K:230:ALA:CB	1:K:303:ILE:HD13	2.24	0.67
1:L:7:VAL:C	1:L:9:PRO:HD3	2.20	0.67
1:L:436:ALA:HA	1:L:439:VAL:HG22	1.76	0.67
1:N:347:LYS:HD2	1:N:353:MET:SD	2.35	0.67
1:P:230:ALA:CB	1:P:303:ILE:HD13	2.24	0.67
1:P:307:ARG:HG2	1:P:307:ARG:HH11	1.58	0.67
1:P:357:GLU:H	1:P:357:GLU:CD	2.01	0.67
1:A:436:ALA:HA	1:A:439:VAL:HG22	1.75	0.67
1:B:237:CYS:SG	1:B:287:GLN:N	2.68	0.67
1:C:347:LYS:HD2	1:C:353:MET:SD	2.35	0.67
1:F:412:SER:HB2	1:F:438:GLU:OE1	1.95	0.67
1:G:249:GLU:HB3	1:H:251:ARG:H	1.59	0.67
1:J:96:ALA:O	1:J:99:VAL:HG12	1.95	0.67
1:K:51:ASP:HB2	1:L:526:ASP:HB2	1.76	0.67
1:K:267:LYS:O	1:K:270:LYS:HG2	1.93	0.67
1:K:412:SER:HB2	1:K:438:GLU:OE1	1.95	0.67
1:L:251:ARG:H	1:M:249:GLU:HB3	1.59	0.67
1:N:49:VAL:HG11	1:O:13:LYS:CD	2.25	0.67
1:O:96:ALA:O	1:O:99:VAL:HG12	1.95	0.67
1:O:237:CYS:SG	1:O:287:GLN:N	2.68	0.67
1:O:425:ARG:HG3	1:O:426:GLU:H	1.60	0.67
1:O:515:VAL:O	1:O:516:ILE:HG22	1.94	0.67
1:A:347:LYS:HD2	1:A:353:MET:SD	2.35	0.67
1:B:251:ARG:NH1	1:C:258:LEU:HD13	2.09	0.67
1:B:515:VAL:O	1:B:516:ILE:HG22	1.94	0.67
1:D:249:GLU:HB3	1:E:251:ARG:H	1.59	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:303:ILE:HG13	1:D:304:VAL:H	1.58	0.67
1:E:190:LYS:HA	1:E:193:ILE:HD11	1.76	0.67
1:G:96:ALA:O	1:G:99:VAL:HG12	1.95	0.67
1:G:412:SER:HB2	1:G:438:GLU:OE1	1.95	0.67
1:H:237:CYS:SG	1:H:287:GLN:N	2.68	0.67
1:I:237:CYS:SG	1:I:287:GLN:N	2.68	0.67
1:J:230:ALA:CB	1:J:303:ILE:HD13	2.24	0.67
1:O:273:VAL:HB	1:O:298:LEU:HD13	1.75	0.67
1:B:190:LYS:HA	1:B:193:ILE:HD11	1.76	0.67
1:C:273:VAL:HB	1:C:298:LEU:HD13	1.75	0.67
1:D:7:VAL:C	1:D:9:PRO:HD3	2.20	0.67
1:E:237:CYS:SG	1:E:287:GLN:N	2.68	0.67
1:E:357:GLU:H	1:E:357:GLU:CD	2.01	0.67
1:E:526:ASP:HB2	1:F:51:ASP:HB2	1.76	0.67
1:G:230:ALA:CB	1:G:303:ILE:HD13	2.24	0.67
1:G:237:CYS:SG	1:G:287:GLN:N	2.68	0.67
1:H:48:LEU:HG	1:H:55:VAL:C	2.19	0.67
1:I:48:LEU:HG	1:I:55:VAL:C	2.19	0.67
1:I:230:ALA:CB	1:I:303:ILE:HD13	2.24	0.67
1:I:251:ARG:HE	1:P:258:LEU:HD21	1.59	0.67
1:J:237:CYS:SG	1:J:287:GLN:N	2.68	0.67
1:J:412:SER:HB2	1:J:438:GLU:OE1	1.95	0.67
1:M:7:VAL:C	1:M:9:PRO:HD3	2.20	0.67
1:M:224:PRO:CA	1:M:304:VAL:HG11	2.23	0.67
1:M:242:LYS:HD3	1:M:242:LYS:N	2.03	0.67
1:P:347:LYS:HD2	1:P:353:MET:SD	2.35	0.67
1:A:526:ASP:HB2	1:B:51:ASP:HB2	1.76	0.66
1:B:13:LYS:HD2	1:B:13:LYS:H	1.59	0.66
1:B:13:LYS:CD	1:C:49:VAL:HG11	2.25	0.66
1:C:515:VAL:O	1:C:516:ILE:HG22	1.94	0.66
1:D:237:CYS:SG	1:D:287:GLN:N	2.68	0.66
1:D:526:ASP:HB2	1:E:51:ASP:HB2	1.76	0.66
1:E:57:VAL:HG11	1:E:63:THR:CG2	2.26	0.66
1:E:424:GLY:O	1:E:425:ARG:HB3	1.95	0.66
1:F:57:VAL:HG11	1:F:63:THR:CG2	2.26	0.66
1:F:251:ARG:HE	1:G:258:LEU:HD21	1.58	0.66
1:F:425:ARG:HG3	1:F:426:GLU:H	1.60	0.66
1:H:230:ALA:CB	1:H:303:ILE:HD13	2.24	0.66
1:K:57:VAL:HG11	1:K:63:THR:CG2	2.26	0.66
1:K:425:ARG:HG3	1:K:426:GLU:H	1.60	0.66
1:L:57:VAL:HG11	1:L:63:THR:CG2	2.26	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:190:LYS:HA	1:L:193:ILE:HD11	1.76	0.66
1:L:237:CYS:SG	1:L:287:GLN:N	2.68	0.66
1:L:357:GLU:CD	1:L:357:GLU:H	2.01	0.66
1:M:237:CYS:SG	1:M:287:GLN:N	2.68	0.66
1:M:425:ARG:HG3	1:M:426:GLU:N	2.10	0.66
1:M:515:VAL:O	1:M:516:ILE:HG22	1.94	0.66
1:N:250:ILE:HG13	1:O:250:ILE:HB	1.76	0.66
1:N:273:VAL:HB	1:N:298:LEU:HD13	1.75	0.66
1:O:13:LYS:HD2	1:O:13:LYS:H	1.59	0.66
1:O:51:ASP:HB2	1:P:526:ASP:HB2	1.76	0.66
1:P:237:CYS:SG	1:P:287:GLN:N	2.68	0.66
1:P:273:VAL:HB	1:P:298:LEU:HD13	1.75	0.66
1:A:237:CYS:SG	1:A:287:GLN:N	2.68	0.66
1:A:515:VAL:O	1:A:516:ILE:HG22	1.94	0.66
1:B:442:ARG:HH12	1:B:456:LEU:H	1.42	0.66
1:D:105:ARG:HA	1:D:108:GLU:OE1	1.95	0.66
1:D:224:PRO:CA	1:D:304:VAL:HG11	2.23	0.66
1:D:515:VAL:O	1:D:516:ILE:HG22	1.94	0.66
1:F:469:LYS:NZ	1:F:486:ASN:HB3	2.10	0.66
1:G:57:VAL:HG11	1:G:63:THR:CG2	2.26	0.66
1:I:526:ASP:HB2	1:P:51:ASP:HB2	1.76	0.66
1:J:13:LYS:HD2	1:J:13:LYS:H	1.59	0.66
1:J:57:VAL:HG11	1:J:63:THR:CG2	2.26	0.66
1:K:7:VAL:C	1:K:9:PRO:HD3	2.20	0.66
1:L:424:GLY:O	1:L:425:ARG:HB3	1.95	0.66
1:M:49:VAL:HG11	1:N:13:LYS:CD	2.25	0.66
1:M:105:ARG:HA	1:M:108:GLU:OE1	1.95	0.66
1:N:237:CYS:SG	1:N:287:GLN:N	2.68	0.66
1:N:515:VAL:O	1:N:516:ILE:HG22	1.94	0.66
1:O:190:LYS:HA	1:O:193:ILE:HD11	1.76	0.66
1:O:424:GLY:O	1:O:425:ARG:HB3	1.95	0.66
1:O:425:ARG:HG3	1:O:426:GLU:N	2.10	0.66
1:O:436:ALA:HA	1:O:439:VAL:HG22	1.76	0.66
1:P:515:VAL:O	1:P:516:ILE:HG22	1.94	0.66
1:C:13:LYS:CD	1:D:49:VAL:HG11	2.25	0.66
1:C:425:ARG:HG3	1:C:426:GLU:H	1.60	0.66
1:D:425:ARG:HG3	1:D:426:GLU:N	2.10	0.66
1:E:347:LYS:HD2	1:E:353:MET:SD	2.35	0.66
1:F:7:VAL:C	1:F:9:PRO:HD3	2.20	0.66
1:F:187:LYS:NZ	1:G:347:LYS:HG3	2.07	0.66
1:F:526:ASP:HB2	1:G:51:ASP:HB2	1.76	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:130:LYS:O	1:G:134:LEU:HD13	1.95	0.66
1:H:7:VAL:C	1:H:9:PRO:HD3	2.20	0.66
1:I:7:VAL:C	1:I:9:PRO:HD3	2.20	0.66
1:J:130:LYS:O	1:J:134:LEU:HD13	1.95	0.66
1:L:51:ASP:HB2	1:M:526:ASP:HB2	1.76	0.66
1:L:347:LYS:HD2	1:L:353:MET:SD	2.35	0.66
1:N:425:ARG:HG3	1:N:426:GLU:H	1.60	0.66
1:O:412:SER:HB2	1:O:438:GLU:OE1	1.95	0.66
1:A:51:ASP:HB2	1:H:526:ASP:HB2	1.77	0.66
1:B:412:SER:HB2	1:B:438:GLU:OE1	1.95	0.66
1:B:424:GLY:O	1:B:425:ARG:HB3	1.95	0.66
1:B:425:ARG:HG3	1:B:426:GLU:N	2.10	0.66
1:C:237:CYS:SG	1:C:287:GLN:N	2.68	0.66
1:D:57:VAL:HG11	1:D:63:THR:CG2	2.26	0.66
1:D:242:LYS:HD3	1:D:242:LYS:N	2.03	0.66
1:G:13:LYS:HD2	1:G:13:LYS:H	1.59	0.66
1:G:307:ARG:HG2	1:G:307:ARG:HH11	1.58	0.66
1:G:403:GLY:O	1:G:487:GLY:HA3	1.96	0.66
1:H:177:ALA:HB2	1:H:388:VAL:HG23	1.78	0.66
1:I:177:ALA:HB2	1:I:388:VAL:HG23	1.78	0.66
1:J:51:ASP:HB2	1:K:526:ASP:HB2	1.76	0.66
1:J:347:LYS:HG3	1:K:187:LYS:NZ	2.07	0.66
1:J:403:GLY:O	1:J:487:GLY:HA3	1.96	0.66
1:J:442:ARG:HH12	1:J:456:LEU:H	1.42	0.66
1:K:469:LYS:NZ	1:K:486:ASN:HB3	2.10	0.66
1:L:412:SER:HB2	1:L:438:GLU:OE1	1.95	0.66
1:M:51:ASP:HB2	1:N:526:ASP:HB2	1.76	0.66
1:M:469:LYS:HZ3	1:M:486:ASN:HB3	1.60	0.66
1:N:436:ALA:HA	1:N:439:VAL:HG22	1.76	0.66
1:O:49:VAL:HG11	1:P:13:LYS:CD	2.25	0.66
1:P:190:LYS:HA	1:P:193:ILE:HD11	1.76	0.66
1:A:7:VAL:C	1:A:9:PRO:HD3	2.20	0.66
1:A:442:ARG:HH12	1:A:456:LEU:H	1.42	0.66
1:B:250:ILE:HB	1:C:250:ILE:HG13	1.77	0.66
1:C:7:VAL:C	1:C:9:PRO:HD3	2.20	0.66
1:C:436:ALA:HA	1:C:439:VAL:HG22	1.76	0.66
1:C:526:ASP:HB2	1:D:51:ASP:HB2	1.76	0.66
1:D:250:ILE:HB	1:E:250:ILE:HG13	1.76	0.66
1:E:412:SER:HB2	1:E:438:GLU:OE1	1.95	0.66
1:E:520:LYS:HG2	1:F:67:GLU:OE1	1.94	0.66
1:G:469:LYS:NZ	1:G:486:ASN:HB3	2.11	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:469:LYS:NZ	1:J:486:ASN:HB3	2.11	0.66
1:K:469:LYS:HZ3	1:K:486:ASN:HB3	1.60	0.66
1:M:57:VAL:HG11	1:M:63:THR:CG2	2.26	0.66
1:N:7:VAL:C	1:N:9:PRO:HD3	2.20	0.66
1:N:190:LYS:HA	1:N:193:ILE:HD11	1.76	0.66
1:N:469:LYS:NZ	1:N:486:ASN:HB3	2.11	0.66
1:O:169:LYS:HZ3	1:O:207:GLU:HG3	1.60	0.66
1:O:442:ARG:HH12	1:O:456:LEU:H	1.42	0.66
1:P:7:VAL:C	1:P:9:PRO:HD3	2.20	0.66
1:P:436:ALA:HA	1:P:439:VAL:HG22	1.76	0.66
1:A:169:LYS:HZ3	1:A:207:GLU:HG3	1.59	0.66
1:A:190:LYS:HA	1:A:193:ILE:HD11	1.76	0.66
1:A:251:ARG:H	1:H:249:GLU:HB3	1.58	0.66
1:A:258:LEU:O	1:A:262:ILE:HG12	1.96	0.66
1:A:347:LYS:HG3	1:H:187:LYS:NZ	2.07	0.66
1:B:347:LYS:HD2	1:B:353:MET:SD	2.35	0.66
1:C:190:LYS:HA	1:C:193:ILE:HD11	1.76	0.66
1:C:250:ILE:HD12	1:D:250:ILE:HD11	1.78	0.66
1:C:442:ARG:HH12	1:C:456:LEU:H	1.42	0.66
1:C:469:LYS:NZ	1:C:486:ASN:HB3	2.11	0.66
1:D:469:LYS:NZ	1:D:486:ASN:HB3	2.10	0.66
1:E:469:LYS:HZ3	1:E:486:ASN:HB3	1.60	0.66
1:E:469:LYS:NZ	1:E:486:ASN:HB3	2.11	0.66
1:F:469:LYS:HZ3	1:F:486:ASN:HB3	1.60	0.66
1:H:13:LYS:HD2	1:H:13:LYS:H	1.59	0.66
1:I:469:LYS:NZ	1:I:486:ASN:HB3	2.10	0.66
1:K:67:GLU:OE1	1:L:520:LYS:HG2	1.94	0.66
1:L:250:ILE:HG13	1:M:250:ILE:HB	1.76	0.66
1:L:425:ARG:HG3	1:L:426:GLU:H	1.60	0.66
1:M:469:LYS:NZ	1:M:486:ASN:HB3	2.10	0.66
1:N:251:ARG:H	1:O:249:GLU:HB3	1.59	0.66
1:O:130:LYS:O	1:O:134:LEU:HD13	1.95	0.66
1:O:469:LYS:NZ	1:O:486:ASN:HB3	2.10	0.66
1:P:105:ARG:HA	1:P:108:GLU:OE1	1.95	0.66
1:P:258:LEU:O	1:P:262:ILE:HG12	1.96	0.66
1:P:424:GLY:O	1:P:425:ARG:HB3	1.95	0.66
1:C:13:LYS:HD2	1:C:13:LYS:H	1.59	0.66
1:D:412:SER:HB2	1:D:438:GLU:OE1	1.95	0.66
1:E:251:ARG:HE	1:F:258:LEU:HD21	1.61	0.66
1:F:237:CYS:SG	1:F:287:GLN:N	2.68	0.66
1:H:469:LYS:NZ	1:H:486:ASN:HB3	2.10	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:13:LYS:HD2	1:I:13:LYS:H	1.59	0.66
1:I:57:VAL:HG11	1:I:63:THR:CG2	2.26	0.66
1:J:307:ARG:HG2	1:J:307:ARG:HH11	1.58	0.66
1:K:237:CYS:SG	1:K:287:GLN:N	2.68	0.66
1:M:412:SER:HB2	1:M:438:GLU:OE1	1.95	0.66
1:N:169:LYS:HZ3	1:N:207:GLU:HG3	1.60	0.66
1:O:251:ARG:H	1:P:249:GLU:HB3	1.59	0.66
1:O:347:LYS:HD2	1:O:353:MET:SD	2.35	0.66
1:P:177:ALA:HB2	1:P:388:VAL:HG23	1.78	0.66
1:P:242:LYS:HD3	1:P:242:LYS:N	2.03	0.66
1:P:442:ARG:HH12	1:P:456:LEU:H	1.42	0.66
1:A:96:ALA:O	1:A:99:VAL:HG12	1.95	0.66
1:A:105:ARG:HA	1:A:108:GLU:OE1	1.95	0.66
1:A:177:ALA:HB2	1:A:388:VAL:CG2	2.26	0.66
1:A:412:SER:HB2	1:A:438:GLU:OE1	1.95	0.66
1:B:7:VAL:C	1:B:9:PRO:HD3	2.20	0.66
1:B:526:ASP:HB2	1:C:51:ASP:HB2	1.76	0.66
1:C:13:LYS:CD	1:C:13:LYS:H	2.09	0.66
1:D:108:GLU:HG2	1:D:109:GLU:N	2.11	0.66
1:E:258:LEU:O	1:E:262:ILE:HG12	1.96	0.66
1:E:425:ARG:HG3	1:E:426:GLU:H	1.60	0.66
1:F:425:ARG:HG3	1:F:426:GLU:N	2.10	0.66
1:G:177:ALA:HB2	1:G:388:VAL:HG23	1.78	0.66
1:G:442:ARG:HH12	1:G:456:LEU:H	1.42	0.66
1:H:57:VAL:HG11	1:H:63:THR:CG2	2.26	0.66
1:H:190:LYS:HA	1:H:193:ILE:HD11	1.76	0.66
1:I:187:LYS:NZ	1:P:347:LYS:HG3	2.07	0.66
1:I:250:ILE:HB	1:P:250:ILE:HG13	1.76	0.66
1:J:177:ALA:HB2	1:J:388:VAL:HG23	1.78	0.66
1:K:105:ARG:HA	1:K:108:GLU:OE1	1.95	0.66
1:K:425:ARG:HG3	1:K:426:GLU:N	2.10	0.66
1:K:442:ARG:HH12	1:K:456:LEU:H	1.42	0.66
1:L:258:LEU:O	1:L:262:ILE:HG12	1.96	0.66
1:L:469:LYS:NZ	1:L:486:ASN:HB3	2.11	0.66
1:M:108:GLU:HG2	1:M:109:GLU:N	2.11	0.66
1:M:436:ALA:HA	1:M:439:VAL:HG22	1.76	0.66
1:N:13:LYS:HD2	1:N:13:LYS:H	1.59	0.66
1:N:258:LEU:O	1:N:262:ILE:HG12	1.96	0.66
1:N:403:GLY:O	1:N:487:GLY:HA3	1.96	0.66
1:O:7:VAL:C	1:O:9:PRO:HD3	2.20	0.66
1:P:96:ALA:O	1:P:99:VAL:HG12	1.95	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:177:ALA:HB2	1:P:388:VAL:CG2	2.26	0.66
1:A:13:LYS:HD2	1:A:13:LYS:H	1.59	0.66
1:A:258:LEU:HD21	1:H:251:ARG:HE	1.61	0.66
1:B:130:LYS:O	1:B:134:LEU:HD13	1.96	0.66
1:C:258:LEU:O	1:C:262:ILE:HG12	1.96	0.66
1:C:403:GLY:O	1:C:487:GLY:HA3	1.96	0.66
1:D:13:LYS:H	1:D:13:LYS:CD	2.09	0.66
1:E:130:LYS:O	1:E:134:LEU:HD13	1.95	0.66
1:F:105:ARG:HA	1:F:108:GLU:OE1	1.95	0.66
1:G:258:LEU:O	1:G:262:ILE:HG12	1.96	0.66
1:H:177:ALA:HB2	1:H:388:VAL:CG2	2.26	0.66
1:H:424:GLY:O	1:H:425:ARG:HB3	1.95	0.66
1:H:442:ARG:HH12	1:H:456:LEU:H	1.42	0.66
1:I:177:ALA:HB2	1:I:388:VAL:CG2	2.26	0.66
1:I:425:ARG:HG3	1:I:426:GLU:N	2.10	0.66
1:J:258:LEU:O	1:J:262:ILE:HG12	1.96	0.66
1:L:130:LYS:O	1:L:134:LEU:HD13	1.95	0.66
1:M:13:LYS:H	1:M:13:LYS:CD	2.09	0.66
1:M:403:GLY:O	1:M:487:GLY:HA3	1.96	0.66
1:N:13:LYS:CD	1:N:13:LYS:H	2.09	0.66
1:N:51:ASP:HB2	1:O:526:ASP:HB2	1.76	0.66
1:N:442:ARG:HH12	1:N:456:LEU:H	1.42	0.66
1:P:224:PRO:CA	1:P:304:VAL:HG11	2.23	0.66
1:A:29:ARG:NH2	1:A:105:ARG:HG3	2.11	0.66
1:A:250:ILE:HG13	1:H:250:ILE:HB	1.77	0.66
1:B:249:GLU:HB3	1:C:251:ARG:H	1.59	0.66
1:C:105:ARG:HA	1:C:108:GLU:OE1	1.95	0.66
1:D:347:LYS:HD2	1:D:353:MET:SD	2.35	0.66
1:D:403:GLY:O	1:D:487:GLY:HA3	1.96	0.66
1:D:436:ALA:HA	1:D:439:VAL:HG22	1.76	0.66
1:E:99:VAL:HG23	1:E:440:ILE:CG1	2.24	0.66
1:F:29:ARG:NH2	1:F:105:ARG:HG3	2.11	0.66
1:F:99:VAL:HG23	1:F:440:ILE:CG1	2.24	0.66
1:F:130:LYS:O	1:F:134:LEU:HD13	1.95	0.66
1:G:424:GLY:O	1:G:425:ARG:HB3	1.95	0.66
1:G:469:LYS:HZ3	1:G:486:ASN:HB3	1.60	0.66
1:H:412:SER:HB2	1:H:438:GLU:OE1	1.95	0.66
1:H:425:ARG:HG3	1:H:426:GLU:N	2.10	0.66
1:I:96:ALA:O	1:I:99:VAL:HG12	1.95	0.66
1:I:190:LYS:HA	1:I:193:ILE:HD11	1.76	0.66
1:I:442:ARG:HH12	1:I:456:LEU:H	1.42	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:258:LEU:HD21	1:K:251:ARG:HE	1.59	0.66
1:K:29:ARG:NH2	1:K:105:ARG:HG3	2.11	0.66
1:K:99:VAL:HG23	1:K:440:ILE:CG1	2.24	0.66
1:O:177:ALA:HB2	1:O:388:VAL:HG23	1.78	0.66
1:P:412:SER:HB2	1:P:438:GLU:OE1	1.95	0.66
1:A:224:PRO:CA	1:A:304:VAL:HG11	2.23	0.65
1:A:249:GLU:HB3	1:B:251:ARG:H	1.59	0.65
1:A:424:GLY:O	1:A:425:ARG:HB3	1.95	0.65
1:B:469:LYS:NZ	1:B:486:ASN:HB3	2.11	0.65
1:C:57:VAL:HG11	1:C:63:THR:CG2	2.25	0.65
1:C:80:GLU:HA	1:C:83:LYS:HB3	1.78	0.65
1:C:424:GLY:O	1:C:425:ARG:HB3	1.95	0.65
1:F:442:ARG:HH12	1:F:456:LEU:H	1.42	0.65
1:G:80:GLU:HA	1:G:83:LYS:HB3	1.78	0.65
1:G:177:ALA:HB2	1:G:388:VAL:CG2	2.26	0.65
1:H:80:GLU:HA	1:H:83:LYS:HB3	1.79	0.65
1:H:347:LYS:HD2	1:H:353:MET:SD	2.35	0.65
1:I:29:ARG:NH2	1:I:105:ARG:HG3	2.11	0.65
1:I:80:GLU:HA	1:I:83:LYS:HB3	1.79	0.65
1:I:347:LYS:HD2	1:I:353:MET:SD	2.35	0.65
1:I:424:GLY:O	1:I:425:ARG:HB3	1.95	0.65
1:J:177:ALA:HB2	1:J:388:VAL:CG2	2.26	0.65
1:J:424:GLY:O	1:J:425:ARG:HB3	1.95	0.65
1:K:130:LYS:O	1:K:134:LEU:HD13	1.95	0.65
1:K:424:GLY:O	1:K:425:ARG:HB3	1.95	0.65
1:L:99:VAL:HG23	1:L:440:ILE:CG1	2.24	0.65
1:L:242:LYS:H	1:L:242:LYS:CD	2.01	0.65
1:L:403:GLY:O	1:L:487:GLY:HA3	1.96	0.65
1:N:80:GLU:HA	1:N:83:LYS:HB3	1.78	0.65
1:N:105:ARG:HA	1:N:108:GLU:OE1	1.95	0.65
1:N:424:GLY:O	1:N:425:ARG:HB3	1.95	0.65
1:P:80:GLU:HA	1:P:83:LYS:HB3	1.78	0.65
1:P:130:LYS:O	1:P:134:LEU:HD13	1.95	0.65
1:P:403:GLY:O	1:P:487:GLY:HA3	1.96	0.65
1:P:469:LYS:NZ	1:P:486:ASN:HB3	2.11	0.65
1:A:49:VAL:HG11	1:H:13:LYS:CD	2.25	0.65
1:A:108:GLU:HG2	1:A:109:GLU:N	2.11	0.65
1:A:130:LYS:O	1:A:134:LEU:HD13	1.95	0.65
1:A:403:GLY:O	1:A:487:GLY:HA3	1.96	0.65
1:B:80:GLU:HA	1:B:83:LYS:HB3	1.79	0.65
1:B:177:ALA:HB2	1:B:388:VAL:CG2	2.26	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:284:LEU:H	1:B:284:LEU:HD22	1.61	0.65
1:E:105:ARG:HA	1:E:108:GLU:OE1	1.95	0.65
1:E:403:GLY:O	1:E:487:GLY:HA3	1.96	0.65
1:G:169:LYS:HZ3	1:G:207:GLU:HG3	1.60	0.65
1:H:29:ARG:NH2	1:H:105:ARG:HG3	2.11	0.65
1:H:96:ALA:O	1:H:99:VAL:HG12	1.95	0.65
1:I:105:ARG:HA	1:I:108:GLU:OE1	1.95	0.65
1:I:249:GLU:HB3	1:P:251:ARG:H	1.59	0.65
1:I:250:ILE:HD11	1:J:250:ILE:HD12	1.78	0.65
1:I:412:SER:HB2	1:I:438:GLU:OE1	1.95	0.65
1:J:80:GLU:HA	1:J:83:LYS:HB3	1.78	0.65
1:J:469:LYS:HZ3	1:J:486:ASN:HB3	1.60	0.65
1:M:250:ILE:HD11	1:N:250:ILE:HD12	1.78	0.65
1:M:347:LYS:HD2	1:M:353:MET:SD	2.35	0.65
1:N:130:LYS:O	1:N:134:LEU:HD13	1.95	0.65
1:O:80:GLU:HA	1:O:83:LYS:HB3	1.79	0.65
1:A:13:LYS:CD	1:B:49:VAL:HG11	2.26	0.65
1:A:80:GLU:HA	1:A:83:LYS:HB3	1.79	0.65
1:B:108:GLU:HG2	1:B:109:GLU:N	2.11	0.65
1:B:277:LYS:CG	1:B:301:GLU:HB3	2.20	0.65
1:B:403:GLY:O	1:B:487:GLY:HA3	1.95	0.65
1:D:442:ARG:HH12	1:D:456:LEU:H	1.42	0.65
1:F:13:LYS:H	1:F:13:LYS:CD	2.09	0.65
1:F:104:LEU:HD23	1:F:105:ARG:N	2.11	0.65
1:F:347:LYS:HD2	1:F:353:MET:SD	2.35	0.65
1:F:424:GLY:O	1:F:425:ARG:HB3	1.95	0.65
1:G:13:LYS:H	1:G:13:LYS:CD	2.09	0.65
1:H:13:LYS:H	1:H:13:LYS:CD	2.09	0.65
1:H:105:ARG:HA	1:H:108:GLU:OE1	1.95	0.65
1:H:130:LYS:O	1:H:134:LEU:HD13	1.95	0.65
1:I:13:LYS:CD	1:P:49:VAL:HG11	2.25	0.65
1:K:108:GLU:HG2	1:K:109:GLU:N	2.11	0.65
1:K:258:LEU:HD21	1:L:251:ARG:HE	1.62	0.65
1:K:347:LYS:HD2	1:K:353:MET:SD	2.35	0.65
1:L:49:VAL:HG11	1:M:13:LYS:CD	2.25	0.65
1:M:424:GLY:O	1:M:425:ARG:HB3	1.95	0.65
1:N:57:VAL:HG11	1:N:63:THR:CG2	2.26	0.65
1:O:13:LYS:CD	1:O:13:LYS:H	2.09	0.65
1:O:284:LEU:HD22	1:O:284:LEU:H	1.61	0.65
1:O:403:GLY:O	1:O:487:GLY:HA3	1.96	0.65
1:P:29:ARG:NH2	1:P:105:ARG:HG3	2.11	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:108:GLU:HG2	1:P:109:GLU:N	2.11	0.65
1:A:469:LYS:NZ	1:A:486:ASN:HB3	2.11	0.65
1:B:13:LYS:H	1:B:13:LYS:CD	2.09	0.65
1:C:29:ARG:NH2	1:C:105:ARG:HG3	2.11	0.65
1:C:130:LYS:O	1:C:134:LEU:HD13	1.95	0.65
1:C:284:LEU:H	1:C:284:LEU:HD22	1.61	0.65
1:D:104:LEU:HD23	1:D:105:ARG:N	2.11	0.65
1:D:470:CYS:HB2	1:D:481:GLU:O	1.97	0.65
1:E:13:LYS:CD	1:F:49:VAL:HG11	2.25	0.65
1:F:108:GLU:HG2	1:F:109:GLU:N	2.11	0.65
1:F:177:ALA:HB2	1:F:388:VAL:HG23	1.78	0.65
1:G:105:ARG:HA	1:G:108:GLU:OE1	1.95	0.65
1:G:187:LYS:NZ	1:H:347:LYS:HG3	2.07	0.65
1:G:347:LYS:HD2	1:G:353:MET:SD	2.35	0.65
1:G:526:ASP:HB2	1:H:51:ASP:HB2	1.76	0.65
1:I:13:LYS:H	1:I:13:LYS:CD	2.09	0.65
1:I:130:LYS:O	1:I:134:LEU:HD13	1.95	0.65
1:J:13:LYS:H	1:J:13:LYS:CD	2.09	0.65
1:K:104:LEU:HD23	1:K:105:ARG:N	2.11	0.65
1:L:29:ARG:NH2	1:L:105:ARG:HG3	2.11	0.65
1:L:105:ARG:HA	1:L:108:GLU:OE1	1.95	0.65
1:L:177:ALA:HB2	1:L:388:VAL:CG2	2.26	0.65
1:L:442:ARG:HH12	1:L:456:LEU:H	1.42	0.65
1:M:177:ALA:HB2	1:M:388:VAL:CG2	2.26	0.65
1:M:470:CYS:HB2	1:M:481:GLU:O	1.97	0.65
1:N:29:ARG:NH2	1:N:105:ARG:HG3	2.11	0.65
1:N:108:GLU:HG2	1:N:109:GLU:N	2.11	0.65
1:N:177:ALA:HB2	1:N:388:VAL:CG2	2.26	0.65
1:O:177:ALA:HB2	1:O:388:VAL:CG2	2.26	0.65
1:P:13:LYS:HD2	1:P:13:LYS:H	1.59	0.65
1:C:177:ALA:HB2	1:C:388:VAL:CG2	2.26	0.65
1:D:13:LYS:CD	1:E:49:VAL:HG11	2.25	0.65
1:D:177:ALA:HB2	1:D:388:VAL:CG2	2.26	0.65
1:D:424:GLY:O	1:D:425:ARG:HB3	1.95	0.65
1:E:29:ARG:NH2	1:E:105:ARG:HG3	2.11	0.65
1:E:177:ALA:HB2	1:E:388:VAL:CG2	2.26	0.65
1:E:277:LYS:CG	1:E:301:GLU:HB3	2.20	0.65
1:I:51:ASP:HB2	1:J:526:ASP:HB2	1.76	0.65
1:I:258:LEU:HD21	1:J:251:ARG:HE	1.62	0.65
1:J:105:ARG:HA	1:J:108:GLU:OE1	1.95	0.65
1:J:347:LYS:HD2	1:J:353:MET:SD	2.35	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:13:LYS:H	1:K:13:LYS:CD	2.09	0.65
1:K:177:ALA:HB2	1:K:388:VAL:HG23	1.78	0.65
1:L:13:LYS:H	1:L:13:LYS:CD	2.09	0.65
1:M:104:LEU:HD23	1:M:105:ARG:N	2.11	0.65
1:N:48:LEU:CD2	1:N:55:VAL:H	2.10	0.65
1:N:284:LEU:H	1:N:284:LEU:HD22	1.61	0.65
1:O:277:LYS:CG	1:O:301:GLU:HB3	2.20	0.65
1:A:13:LYS:H	1:A:13:LYS:CD	2.09	0.65
1:A:385:ASP:HA	1:A:388:VAL:HG12	1.79	0.65
1:C:104:LEU:HD23	1:C:105:ARG:N	2.11	0.65
1:C:108:GLU:HG2	1:C:109:GLU:N	2.11	0.65
1:D:130:LYS:O	1:D:134:LEU:HD13	1.95	0.65
1:E:13:LYS:H	1:E:13:LYS:CD	2.09	0.65
1:E:198:LYS:HA	1:E:370:ARG:O	1.97	0.65
1:E:442:ARG:HH12	1:E:456:LEU:H	1.42	0.65
1:F:208:LEU:HG	1:F:210:LYS:N	2.11	0.65
1:G:31:ILE:O	1:G:35:VAL:HG13	1.97	0.65
1:I:258:LEU:O	1:I:262:ILE:HG12	1.96	0.65
1:J:31:ILE:O	1:J:35:VAL:HG13	1.97	0.65
1:K:49:VAL:HG11	1:L:13:LYS:CD	2.25	0.65
1:K:208:LEU:HG	1:K:210:LYS:N	2.11	0.65
1:M:130:LYS:O	1:M:134:LEU:HD13	1.95	0.65
1:M:442:ARG:HH12	1:M:456:LEU:H	1.42	0.65
1:N:104:LEU:HD23	1:N:105:ARG:N	2.11	0.65
1:O:108:GLU:HG2	1:O:109:GLU:N	2.11	0.65
1:O:250:ILE:HD11	1:P:250:ILE:HD12	1.78	0.65
1:A:57:VAL:HG11	1:A:63:THR:CG2	2.25	0.65
1:B:31:ILE:O	1:B:35:VAL:HG13	1.97	0.65
1:C:48:LEU:CD2	1:C:55:VAL:H	2.10	0.65
1:C:187:LYS:CE	1:D:347:LYS:HZ3	2.09	0.65
1:D:80:GLU:HA	1:D:83:LYS:HB3	1.79	0.65
1:D:198:LYS:HA	1:D:370:ARG:O	1.97	0.65
1:D:277:LYS:CG	1:D:301:GLU:HB3	2.20	0.65
1:E:80:GLU:HA	1:E:83:LYS:HB3	1.78	0.65
1:F:13:LYS:CD	1:G:49:VAL:HG11	2.25	0.65
1:F:198:LYS:HA	1:F:370:ARG:O	1.97	0.65
1:F:250:ILE:HB	1:G:250:ILE:HG13	1.77	0.65
1:G:104:LEU:HD23	1:G:105:ARG:N	2.11	0.65
1:G:198:LYS:HA	1:G:370:ARG:O	1.97	0.65
1:H:48:LEU:CD2	1:H:55:VAL:H	2.10	0.65
1:I:48:LEU:CD2	1:I:55:VAL:H	2.10	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:104:LEU:HD23	1:I:105:ARG:N	2.11	0.65
1:I:347:LYS:HG3	1:J:187:LYS:NZ	2.07	0.65
1:J:198:LYS:HA	1:J:370:ARG:O	1.97	0.65
1:J:250:ILE:HG13	1:K:250:ILE:HB	1.76	0.65
1:K:198:LYS:HA	1:K:370:ARG:O	1.97	0.65
1:K:385:ASP:HA	1:K:388:VAL:HG12	1.79	0.65
1:L:80:GLU:HA	1:L:83:LYS:HB3	1.78	0.65
1:L:198:LYS:HA	1:L:370:ARG:O	1.97	0.65
1:L:277:LYS:CG	1:L:301:GLU:HB3	2.20	0.65
1:L:284:LEU:HD22	1:L:284:LEU:H	1.61	0.65
1:M:198:LYS:HA	1:M:370:ARG:O	1.97	0.65
1:M:277:LYS:CG	1:M:301:GLU:HB3	2.20	0.65
1:M:284:LEU:H	1:M:284:LEU:HD22	1.61	0.65
1:N:412:SER:HB2	1:N:438:GLU:OE1	1.95	0.65
1:P:13:LYS:CD	1:P:13:LYS:H	2.09	0.65
1:P:57:VAL:HG11	1:P:63:THR:CG2	2.26	0.65
1:A:48:LEU:CD2	1:A:55:VAL:H	2.10	0.65
1:A:197:LYS:HG3	1:A:198:LYS:H	1.62	0.65
1:A:284:LEU:HD22	1:A:284:LEU:H	1.61	0.65
1:B:105:ARG:HA	1:B:108:GLU:OE1	1.95	0.65
1:B:258:LEU:O	1:B:262:ILE:HG12	1.96	0.65
1:C:251:ARG:HE	1:D:258:LEU:HD21	1.61	0.65
1:D:48:LEU:CD2	1:D:55:VAL:H	2.10	0.65
1:D:284:LEU:HD22	1:D:284:LEU:H	1.61	0.65
1:E:48:LEU:CD2	1:E:55:VAL:H	2.10	0.65
1:E:284:LEU:H	1:E:284:LEU:HD22	1.61	0.65
1:F:385:ASP:HA	1:F:388:VAL:HG12	1.79	0.65
1:F:403:GLY:O	1:F:487:GLY:HA3	1.96	0.65
1:G:512:ILE:HA	1:H:45:ASP:CB	2.27	0.65
1:H:104:LEU:HD23	1:H:105:ARG:N	2.11	0.65
1:H:258:LEU:O	1:H:262:ILE:HG12	1.96	0.65
1:J:49:VAL:HG11	1:K:13:LYS:CD	2.25	0.65
1:L:48:LEU:CD2	1:L:55:VAL:H	2.10	0.65
1:M:48:LEU:CD2	1:M:55:VAL:H	2.10	0.65
1:M:80:GLU:HA	1:M:83:LYS:HB3	1.79	0.65
1:M:347:LYS:HZ3	1:N:187:LYS:CE	2.09	0.65
1:P:48:LEU:CD2	1:P:55:VAL:H	2.10	0.65
1:P:197:LYS:HG3	1:P:198:LYS:H	1.62	0.65
1:A:104:LEU:HD23	1:A:105:ARG:N	2.11	0.65
1:A:520:LYS:H	1:A:520:LYS:CD	2.08	0.65
1:C:412:SER:HB2	1:C:438:GLU:OE1	1.95	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:104:LEU:HD23	1:E:105:ARG:N	2.11	0.65
1:F:48:LEU:CD2	1:F:55:VAL:H	2.10	0.65
1:F:197:LYS:HG3	1:F:198:LYS:H	1.62	0.65
1:F:284:LEU:HD22	1:F:284:LEU:H	1.61	0.65
1:F:520:LYS:H	1:F:520:LYS:CD	2.09	0.65
1:G:13:LYS:CD	1:H:49:VAL:HG11	2.25	0.65
1:G:197:LYS:HG3	1:G:198:LYS:H	1.62	0.65
1:H:31:ILE:O	1:H:35:VAL:HG13	1.97	0.65
1:I:45:ASP:CB	1:J:512:ILE:HA	2.27	0.65
1:I:385:ASP:HA	1:I:388:VAL:HG12	1.79	0.65
1:I:403:GLY:O	1:I:487:GLY:HA3	1.96	0.65
1:J:104:LEU:HD23	1:J:105:ARG:N	2.11	0.65
1:J:197:LYS:HG3	1:J:198:LYS:H	1.62	0.65
1:J:385:ASP:HA	1:J:388:VAL:HG12	1.79	0.65
1:K:31:ILE:O	1:K:35:VAL:HG13	1.97	0.65
1:K:258:LEU:O	1:K:262:ILE:HG12	1.96	0.65
1:L:104:LEU:HD23	1:L:105:ARG:N	2.11	0.65
1:L:470:CYS:HB2	1:L:481:GLU:O	1.96	0.65
1:N:31:ILE:O	1:N:35:VAL:HG13	1.97	0.65
1:O:31:ILE:O	1:O:35:VAL:HG13	1.97	0.65
1:O:105:ARG:HA	1:O:108:GLU:OE1	1.95	0.65
1:B:104:LEU:HD23	1:B:105:ARG:N	2.11	0.65
1:C:31:ILE:O	1:C:35:VAL:HG13	1.97	0.65
1:D:258:LEU:O	1:D:262:ILE:HG12	1.96	0.65
1:E:197:LYS:HG3	1:E:198:LYS:H	1.62	0.65
1:F:31:ILE:O	1:F:35:VAL:HG13	1.97	0.65
1:F:512:ILE:HA	1:G:45:ASP:CB	2.27	0.65
1:G:385:ASP:HA	1:G:388:VAL:HG12	1.79	0.65
1:H:197:LYS:HG3	1:H:198:LYS:H	1.62	0.65
1:I:31:ILE:O	1:I:35:VAL:HG13	1.97	0.65
1:I:49:VAL:HG11	1:J:13:LYS:CD	2.25	0.65
1:I:187:LYS:CE	1:P:347:LYS:HZ3	2.10	0.65
1:I:197:LYS:HG3	1:I:198:LYS:H	1.62	0.65
1:I:248:ALA:O	1:I:249:GLU:HB2	1.97	0.65
1:J:45:ASP:CB	1:K:512:ILE:HA	2.27	0.65
1:K:48:LEU:CD2	1:K:55:VAL:H	2.10	0.65
1:K:197:LYS:HG3	1:K:198:LYS:H	1.62	0.65
1:K:284:LEU:H	1:K:284:LEU:HD22	1.61	0.65
1:K:403:GLY:O	1:K:487:GLY:HA3	1.96	0.65
1:L:197:LYS:HG3	1:L:198:LYS:H	1.62	0.65
1:O:258:LEU:O	1:O:262:ILE:HG12	1.96	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:104:LEU:HD23	1:P:105:ARG:N	2.11	0.65
1:A:347:LYS:HZ3	1:H:187:LYS:CE	2.10	0.64
1:D:8:LEU:N	1:D:9:PRO:HD3	2.13	0.64
1:E:385:ASP:HA	1:E:388:VAL:HG12	1.79	0.64
1:E:470:CYS:HB2	1:E:481:GLU:O	1.96	0.64
1:E:512:ILE:HA	1:F:45:ASP:CB	2.27	0.64
1:F:177:ALA:HB2	1:F:388:VAL:CG2	2.26	0.64
1:F:258:LEU:O	1:F:262:ILE:HG12	1.96	0.64
1:F:470:CYS:HB2	1:F:481:GLU:O	1.97	0.64
1:H:385:ASP:HA	1:H:388:VAL:HG12	1.79	0.64
1:H:403:GLY:O	1:H:487:GLY:HA3	1.96	0.64
1:J:99:VAL:HG23	1:J:440:ILE:CG1	2.24	0.64
1:J:169:LYS:HZ3	1:J:207:GLU:HG3	1.61	0.64
1:K:45:ASP:CB	1:L:512:ILE:HA	2.27	0.64
1:K:177:ALA:HB2	1:K:388:VAL:CG2	2.26	0.64
1:K:520:LYS:H	1:K:520:LYS:CD	2.09	0.64
1:L:385:ASP:HA	1:L:388:VAL:HG12	1.79	0.64
1:M:8:LEU:N	1:M:9:PRO:HD3	2.13	0.64
1:M:258:LEU:O	1:M:262:ILE:HG12	1.96	0.64
1:O:104:LEU:HD23	1:O:105:ARG:N	2.11	0.64
1:O:197:LYS:HG3	1:O:198:LYS:H	1.62	0.64
1:O:214:VAL:HG22	1:O:316:LYS:HG3	1.79	0.64
1:P:208:LEU:HG	1:P:210:LYS:N	2.12	0.64
1:A:208:LEU:HG	1:A:210:LYS:N	2.11	0.64
1:B:57:VAL:HG11	1:B:63:THR:CG2	2.26	0.64
1:B:197:LYS:HG3	1:B:198:LYS:H	1.63	0.64
1:B:208:LEU:HG	1:B:210:LYS:N	2.11	0.64
1:C:197:LYS:HG3	1:C:198:LYS:H	1.62	0.64
1:E:187:LYS:NZ	1:F:347:LYS:HG3	2.07	0.64
1:F:80:GLU:HA	1:F:83:LYS:HB3	1.79	0.64
1:G:99:VAL:HG23	1:G:440:ILE:CG1	2.24	0.64
1:I:512:ILE:HA	1:P:45:ASP:CB	2.27	0.64
1:J:224:PRO:CA	1:J:304:VAL:HG11	2.23	0.64
1:K:80:GLU:HA	1:K:83:LYS:HB3	1.79	0.64
1:K:470:CYS:HB2	1:K:481:GLU:O	1.97	0.64
1:M:197:LYS:HG3	1:M:198:LYS:H	1.62	0.64
1:N:197:LYS:HG3	1:N:198:LYS:H	1.62	0.64
1:O:208:LEU:HG	1:O:210:LYS:N	2.11	0.64
1:O:258:LEU:HD21	1:P:251:ARG:HE	1.62	0.64
1:P:284:LEU:H	1:P:284:LEU:HD22	1.61	0.64
1:A:45:ASP:CB	1:H:512:ILE:HA	2.27	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:510:LEU:C	1:B:512:ILE:H	2.06	0.64
1:D:197:LYS:HG3	1:D:198:LYS:H	1.62	0.64
1:E:250:ILE:HD12	1:F:250:ILE:HD11	1.78	0.64
1:G:8:LEU:N	1:G:9:PRO:HD3	2.12	0.64
1:G:29:ARG:NH2	1:G:105:ARG:HG3	2.11	0.64
1:H:214:VAL:HG22	1:H:316:LYS:HG3	1.79	0.64
1:J:8:LEU:N	1:J:9:PRO:HD3	2.12	0.64
1:L:31:ILE:O	1:L:35:VAL:HG13	1.97	0.64
1:P:385:ASP:HA	1:P:388:VAL:HG12	1.79	0.64
1:A:1:MET:HE3	1:H:16:MET:SD	2.37	0.64
1:B:214:VAL:HG22	1:B:316:LYS:HG3	1.80	0.64
1:C:8:LEU:N	1:C:9:PRO:HD3	2.12	0.64
1:C:512:ILE:HA	1:D:45:ASP:CB	2.27	0.64
1:D:187:LYS:CE	1:E:347:LYS:HZ3	2.10	0.64
1:G:108:GLU:HG2	1:G:109:GLU:N	2.11	0.64
1:G:242:LYS:HG2	1:G:244:THR:HB	1.80	0.64
1:G:510:LEU:C	1:G:512:ILE:H	2.06	0.64
1:H:248:ALA:O	1:H:249:GLU:HB2	1.98	0.64
1:H:284:LEU:H	1:H:284:LEU:HD22	1.61	0.64
1:I:214:VAL:HG22	1:I:316:LYS:HG3	1.79	0.64
1:M:45:ASP:CB	1:N:512:ILE:HA	2.27	0.64
1:N:177:ALA:HB2	1:N:388:VAL:HG23	1.78	0.64
1:O:29:ARG:NH2	1:O:105:ARG:HG3	2.11	0.64
1:O:242:LYS:H	1:O:242:LYS:CD	2.01	0.64
1:O:510:LEU:C	1:O:512:ILE:H	2.06	0.64
1:B:198:LYS:HA	1:B:370:ARG:O	1.97	0.64
1:B:470:CYS:HB2	1:B:481:GLU:O	1.97	0.64
1:C:177:ALA:HB2	1:C:388:VAL:HG23	1.78	0.64
1:C:248:ALA:O	1:C:249:GLU:HB2	1.98	0.64
1:C:470:CYS:HB2	1:C:481:GLU:O	1.96	0.64
1:D:242:LYS:HG2	1:D:244:THR:HB	1.80	0.64
1:E:31:ILE:O	1:E:35:VAL:HG13	1.97	0.64
1:E:169:LYS:HZ2	1:E:173:ILE:HD11	1.63	0.64
1:E:208:LEU:HG	1:E:210:LYS:N	2.12	0.64
1:F:378:GLU:O	1:F:382:ARG:HD2	1.98	0.64
1:G:224:PRO:CA	1:G:304:VAL:HG11	2.23	0.64
1:G:248:ALA:O	1:G:249:GLU:HB2	1.98	0.64
1:G:520:LYS:CD	1:G:520:LYS:H	2.09	0.64
1:H:99:VAL:HG23	1:H:440:ILE:CG1	2.24	0.64
1:I:99:VAL:HG23	1:I:440:ILE:CG1	2.24	0.64
1:J:29:ARG:NH2	1:J:105:ARG:HG3	2.11	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:108:GLU:HG2	1:J:109:GLU:N	2.11	0.64
1:J:470:CYS:HB2	1:J:481:GLU:O	1.96	0.64
1:K:347:LYS:HG3	1:L:187:LYS:NZ	2.07	0.64
1:K:378:GLU:O	1:K:382:ARG:HD2	1.98	0.64
1:L:242:LYS:HG2	1:L:244:THR:HB	1.80	0.64
1:L:347:LYS:HZ3	1:M:187:LYS:CE	2.10	0.64
1:M:242:LYS:HG2	1:M:244:THR:HB	1.80	0.64
1:N:8:LEU:N	1:N:9:PRO:HD3	2.12	0.64
1:O:57:VAL:HG11	1:O:63:THR:CG2	2.26	0.64
1:O:385:ASP:HA	1:O:388:VAL:HG12	1.79	0.64
1:O:520:LYS:CD	1:O:520:LYS:H	2.09	0.64
1:A:470:CYS:HB2	1:A:481:GLU:O	1.97	0.64
1:C:214:VAL:HG22	1:C:316:LYS:HG3	1.80	0.64
1:D:208:LEU:HG	1:D:210:LYS:N	2.11	0.64
1:E:242:LYS:HG2	1:E:244:THR:HB	1.80	0.64
1:H:242:LYS:HG2	1:H:244:THR:HB	1.80	0.64
1:I:242:LYS:HG2	1:I:244:THR:HB	1.80	0.64
1:J:248:ALA:O	1:J:249:GLU:HB2	1.98	0.64
1:J:510:LEU:C	1:J:512:ILE:H	2.06	0.64
1:K:242:LYS:HG2	1:K:244:THR:HB	1.80	0.64
1:K:250:ILE:HD11	1:L:250:ILE:HD12	1.78	0.64
1:K:510:LEU:C	1:K:512:ILE:H	2.06	0.64
1:L:208:LEU:HG	1:L:210:LYS:N	2.12	0.64
1:N:248:ALA:O	1:N:249:GLU:HB2	1.98	0.64
1:N:470:CYS:HB2	1:N:481:GLU:O	1.96	0.64
1:O:48:LEU:CD2	1:O:55:VAL:H	2.10	0.64
1:O:469:LYS:HZ3	1:O:486:ASN:HB3	1.61	0.64
1:O:470:CYS:HB2	1:O:481:GLU:O	1.97	0.64
1:P:470:CYS:HB2	1:P:481:GLU:O	1.96	0.64
1:A:198:LYS:HA	1:A:370:ARG:O	1.97	0.64
1:B:29:ARG:NH2	1:B:105:ARG:HG3	2.11	0.64
1:D:177:ALA:HB2	1:D:388:VAL:HG23	1.78	0.64
1:D:378:GLU:O	1:D:382:ARG:HD2	1.98	0.64
1:E:108:GLU:HG2	1:E:109:GLU:N	2.11	0.64
1:E:378:GLU:O	1:E:382:ARG:HD2	1.98	0.64
1:F:8:LEU:N	1:F:9:PRO:HD3	2.13	0.64
1:F:242:LYS:HG2	1:F:244:THR:HB	1.80	0.64
1:F:510:LEU:C	1:F:512:ILE:H	2.06	0.64
1:G:470:CYS:HB2	1:G:481:GLU:O	1.96	0.64
1:I:8:LEU:N	1:I:9:PRO:HD3	2.13	0.64
1:I:208:LEU:HG	1:I:210:LYS:N	2.11	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:284:LEU:HD22	1:I:284:LEU:H	1.61	0.64
1:J:242:LYS:HG2	1:J:244:THR:HB	1.80	0.64
1:J:378:GLU:O	1:J:382:ARG:HD2	1.98	0.64
1:J:520:LYS:CD	1:J:520:LYS:H	2.09	0.64
1:L:8:LEU:N	1:L:9:PRO:HD3	2.12	0.64
1:L:49:VAL:CG2	1:M:517:ALA:HB3	2.28	0.64
1:L:108:GLU:HG2	1:L:109:GLU:N	2.11	0.64
1:L:177:ALA:HB2	1:L:388:VAL:HG23	1.78	0.64
1:L:378:GLU:O	1:L:382:ARG:HD2	1.98	0.64
1:M:378:GLU:O	1:M:382:ARG:HD2	1.98	0.64
1:N:214:VAL:HG22	1:N:316:LYS:HG3	1.80	0.64
1:P:520:LYS:H	1:P:520:LYS:CD	2.09	0.64
1:B:469:LYS:HZ3	1:B:486:ASN:HB3	1.61	0.64
1:D:517:ALA:HB3	1:E:49:VAL:CG2	2.28	0.64
1:E:41:PRO:HB2	1:E:444:LEU:HD21	1.80	0.64
1:E:152:LYS:O	1:E:156:THR:HG23	1.98	0.64
1:E:177:ALA:HB2	1:E:388:VAL:HG23	1.78	0.64
1:F:277:LYS:CG	1:F:301:GLU:HB3	2.20	0.64
1:G:208:LEU:HG	1:G:210:LYS:N	2.12	0.64
1:G:378:GLU:O	1:G:382:ARG:HD2	1.98	0.64
1:H:8:LEU:N	1:H:9:PRO:HD3	2.13	0.64
1:H:378:GLU:O	1:H:382:ARG:HD2	1.98	0.64
1:J:48:LEU:CD2	1:J:55:VAL:H	2.10	0.64
1:K:8:LEU:N	1:K:9:PRO:HD3	2.13	0.64
1:M:177:ALA:HB2	1:M:388:VAL:HG23	1.78	0.64
1:M:208:LEU:HG	1:M:210:LYS:N	2.11	0.64
1:O:198:LYS:HA	1:O:370:ARG:O	1.97	0.64
1:P:198:LYS:HA	1:P:370:ARG:O	1.97	0.64
1:P:510:LEU:C	1:P:512:ILE:H	2.06	0.64
1:A:378:GLU:O	1:A:382:ARG:HD2	1.98	0.64
1:B:177:ALA:HB2	1:B:388:VAL:HG23	1.79	0.64
1:B:242:LYS:H	1:B:242:LYS:CD	2.01	0.64
1:B:520:LYS:CD	1:B:520:LYS:H	2.09	0.64
1:C:152:LYS:O	1:C:156:THR:HG23	1.98	0.64
1:C:208:LEU:HG	1:C:210:LYS:N	2.12	0.64
1:D:99:VAL:HG23	1:D:440:ILE:CG1	2.24	0.64
1:D:385:ASP:HA	1:D:388:VAL:HG12	1.79	0.64
1:E:8:LEU:N	1:E:9:PRO:HD3	2.12	0.64
1:G:41:PRO:HB2	1:G:444:LEU:HD21	1.80	0.64
1:G:48:LEU:CD2	1:G:55:VAL:H	2.10	0.64
1:H:208:LEU:HG	1:H:210:LYS:N	2.11	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:470:CYS:HB2	1:H:481:GLU:O	1.97	0.64
1:I:378:GLU:O	1:I:382:ARG:HD2	1.98	0.64
1:I:470:CYS:HB2	1:I:481:GLU:O	1.97	0.64
1:I:520:LYS:H	1:I:520:LYS:CD	2.09	0.64
1:J:41:PRO:HB2	1:J:444:LEU:HD21	1.80	0.64
1:K:347:LYS:HZ3	1:L:187:LYS:CE	2.11	0.64
1:L:41:PRO:HB2	1:L:444:LEU:HD21	1.80	0.64
1:L:152:LYS:O	1:L:156:THR:HG23	1.98	0.64
1:M:258:LEU:HD21	1:N:251:ARG:HE	1.62	0.64
1:N:152:LYS:O	1:N:156:THR:HG23	1.98	0.64
1:N:378:GLU:O	1:N:382:ARG:HD2	1.98	0.64
1:O:45:ASP:CB	1:P:512:ILE:HA	2.27	0.64
1:A:31:ILE:O	1:A:35:VAL:HG13	1.97	0.64
1:A:41:PRO:HB2	1:A:444:LEU:HD21	1.80	0.64
1:A:105:ARG:HA	1:A:108:GLU:CD	2.23	0.64
1:B:48:LEU:CD2	1:B:55:VAL:H	2.10	0.64
1:B:458:LYS:HD3	1:B:479:ALA:HA	1.80	0.64
1:C:105:ARG:HA	1:C:108:GLU:CD	2.23	0.64
1:C:378:GLU:O	1:C:382:ARG:HD2	1.98	0.64
1:D:105:ARG:HA	1:D:108:GLU:CD	2.23	0.64
1:D:187:LYS:NZ	1:E:347:LYS:HG3	2.07	0.64
1:E:520:LYS:H	1:E:520:LYS:CD	2.09	0.64
1:F:152:LYS:O	1:F:156:THR:HG23	1.98	0.64
1:G:214:VAL:HG22	1:G:316:LYS:HG3	1.80	0.64
1:I:273:VAL:HB	1:I:298:LEU:CD1	2.28	0.64
1:J:49:VAL:CG2	1:K:517:ALA:HB3	2.28	0.64
1:J:208:LEU:HG	1:J:210:LYS:N	2.12	0.64
1:J:214:VAL:HG22	1:J:316:LYS:HG3	1.80	0.64
1:K:152:LYS:O	1:K:156:THR:HG23	1.98	0.64
1:K:410:GLU:HB2	1:K:468:ASN:ND2	2.13	0.64
1:M:99:VAL:HG23	1:M:440:ILE:CG1	2.24	0.64
1:M:105:ARG:HA	1:M:108:GLU:CD	2.23	0.64
1:M:248:ALA:O	1:M:249:GLU:HB2	1.97	0.64
1:M:385:ASP:HA	1:M:388:VAL:HG12	1.79	0.64
1:P:41:PRO:HB2	1:P:444:LEU:HD21	1.80	0.64
1:A:510:LEU:C	1:A:512:ILE:H	2.06	0.63
1:A:512:ILE:HA	1:B:45:ASP:CB	2.27	0.63
1:B:391:VAL:O	1:B:395:ILE:HG23	1.98	0.63
1:D:31:ILE:O	1:D:35:VAL:HG13	1.97	0.63
1:D:520:LYS:CD	1:D:520:LYS:H	2.09	0.63
1:F:410:GLU:HB2	1:F:468:ASN:ND2	2.13	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:517:ALA:HB3	1:G:49:VAL:CG2	2.28	0.63
1:G:273:VAL:HB	1:G:298:LEU:CD1	2.28	0.63
1:G:284:LEU:HD22	1:G:284:LEU:H	1.61	0.63
1:H:273:VAL:HB	1:H:298:LEU:CD1	2.28	0.63
1:J:273:VAL:HB	1:J:298:LEU:CD1	2.28	0.63
1:K:277:LYS:CG	1:K:301:GLU:HB3	2.20	0.63
1:L:347:LYS:HG3	1:M:187:LYS:NZ	2.07	0.63
1:M:123:GLY:HA3	1:M:430:VAL:HG22	1.80	0.63
1:M:410:GLU:HB2	1:M:468:ASN:ND2	2.13	0.63
1:N:45:ASP:CB	1:O:512:ILE:HA	2.27	0.63
1:N:208:LEU:HG	1:N:210:LYS:N	2.12	0.63
1:N:236:ASN:O	1:N:237:CYS:HB2	1.98	0.63
1:P:31:ILE:O	1:P:35:VAL:HG13	1.97	0.63
1:A:152:LYS:O	1:A:156:THR:HG23	1.98	0.63
1:B:512:ILE:HA	1:C:45:ASP:CB	2.27	0.63
1:C:236:ASN:O	1:C:237:CYS:HB2	1.98	0.63
1:C:520:LYS:H	1:C:520:LYS:CD	2.09	0.63
1:D:123:GLY:HA3	1:D:430:VAL:HG22	1.80	0.63
1:D:152:LYS:O	1:D:156:THR:HG23	1.98	0.63
1:D:410:GLU:HB2	1:D:468:ASN:ND2	2.13	0.63
1:D:512:ILE:HA	1:E:45:ASP:CB	2.27	0.63
1:F:236:ASN:O	1:F:237:CYS:HB2	1.98	0.63
1:G:187:LYS:CE	1:H:347:LYS:HZ3	2.10	0.63
1:H:520:LYS:H	1:H:520:LYS:CD	2.09	0.63
1:I:242:LYS:HD3	1:I:242:LYS:N	2.03	0.63
1:I:410:GLU:HB2	1:I:468:ASN:ND2	2.13	0.63
1:I:517:ALA:HB3	1:P:49:VAL:CG2	2.28	0.63
1:J:347:LYS:HZ3	1:K:187:LYS:CE	2.11	0.63
1:L:469:LYS:HZ3	1:L:486:ASN:HB3	1.63	0.63
1:L:520:LYS:CD	1:L:520:LYS:H	2.09	0.63
1:N:105:ARG:HA	1:N:108:GLU:CD	2.24	0.63
1:N:198:LYS:HA	1:N:370:ARG:O	1.97	0.63
1:O:458:LYS:HD3	1:O:479:ALA:HA	1.80	0.63
1:A:49:VAL:CG2	1:H:517:ALA:HB3	2.28	0.63
1:A:458:LYS:HD3	1:A:479:ALA:HA	1.80	0.63
1:B:8:LEU:N	1:B:9:PRO:HD3	2.13	0.63
1:B:105:ARG:HA	1:B:108:GLU:CD	2.23	0.63
1:B:152:LYS:O	1:B:156:THR:HG23	1.98	0.63
1:C:273:VAL:HB	1:C:298:LEU:CD1	2.28	0.63
1:C:385:ASP:HA	1:C:388:VAL:HG12	1.79	0.63
1:D:248:ALA:O	1:D:249:GLU:HB2	1.98	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:411:LEU:HD13	1:D:412:SER:N	2.14	0.63
1:F:194:LYS:HZ1	1:F:316:LYS:HD2	1.63	0.63
1:H:410:GLU:HB2	1:H:468:ASN:ND2	2.13	0.63
1:I:108:GLU:HG2	1:I:109:GLU:N	2.11	0.63
1:I:152:LYS:O	1:I:156:THR:HG23	1.98	0.63
1:K:236:ASN:O	1:K:237:CYS:HB2	1.98	0.63
1:L:45:ASP:CB	1:M:512:ILE:HA	2.27	0.63
1:L:105:ARG:HA	1:L:108:GLU:CD	2.23	0.63
1:M:31:ILE:O	1:M:35:VAL:HG13	1.97	0.63
1:M:152:LYS:O	1:M:156:THR:HG23	1.98	0.63
1:M:411:LEU:HD13	1:M:412:SER:N	2.14	0.63
1:M:520:LYS:CD	1:M:520:LYS:H	2.09	0.63
1:N:49:VAL:CG2	1:O:517:ALA:HB3	2.28	0.63
1:N:123:GLY:HA3	1:N:430:VAL:HG22	1.80	0.63
1:N:273:VAL:HB	1:N:298:LEU:CD1	2.28	0.63
1:N:385:ASP:HA	1:N:388:VAL:HG12	1.79	0.63
1:N:411:LEU:HD13	1:N:412:SER:N	2.14	0.63
1:O:411:LEU:HD13	1:O:412:SER:N	2.14	0.63
1:P:8:LEU:N	1:P:9:PRO:HD3	2.12	0.63
1:P:105:ARG:HA	1:P:108:GLU:CD	2.23	0.63
1:P:152:LYS:O	1:P:156:THR:HG23	1.98	0.63
1:P:458:LYS:HD3	1:P:479:ALA:HA	1.80	0.63
1:B:236:ASN:O	1:B:237:CYS:HB2	1.98	0.63
1:B:385:ASP:HA	1:B:388:VAL:HG12	1.80	0.63
1:B:517:ALA:HB3	1:C:49:VAL:CG2	2.28	0.63
1:C:41:PRO:HB2	1:C:444:LEU:HD21	1.80	0.63
1:C:99:VAL:HG23	1:C:440:ILE:CG1	2.24	0.63
1:C:123:GLY:HA3	1:C:430:VAL:HG22	1.80	0.63
1:C:198:LYS:HA	1:C:370:ARG:O	1.97	0.63
1:C:411:LEU:HD13	1:C:412:SER:N	2.14	0.63
1:E:105:ARG:HA	1:E:108:GLU:CD	2.23	0.63
1:E:236:ASN:O	1:E:237:CYS:HB2	1.98	0.63
1:F:455:ILE:O	1:F:458:LYS:HB3	1.98	0.63
1:H:105:ARG:HA	1:H:108:GLU:CD	2.23	0.63
1:H:152:LYS:O	1:H:156:THR:HG23	1.98	0.63
1:I:105:ARG:HA	1:I:108:GLU:CD	2.23	0.63
1:J:152:LYS:O	1:J:156:THR:HG23	1.98	0.63
1:J:284:LEU:H	1:J:284:LEU:HD22	1.61	0.63
1:N:41:PRO:HB2	1:N:444:LEU:HD21	1.80	0.63
1:N:99:VAL:HG23	1:N:440:ILE:CG1	2.24	0.63
1:O:236:ASN:O	1:O:237:CYS:HB2	1.98	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:273:VAL:HB	1:P:298:LEU:CD1	2.28	0.63
1:P:378:GLU:O	1:P:382:ARG:HD2	1.98	0.63
1:B:411:LEU:HD13	1:B:412:SER:N	2.14	0.63
1:C:510:LEU:C	1:C:512:ILE:H	2.06	0.63
1:E:411:LEU:HD13	1:E:412:SER:N	2.14	0.63
1:G:152:LYS:O	1:G:156:THR:HG23	1.98	0.63
1:G:236:ASN:O	1:G:237:CYS:HB2	1.98	0.63
1:H:108:GLU:HG2	1:H:109:GLU:N	2.11	0.63
1:K:455:ILE:O	1:K:458:LYS:HB3	1.98	0.63
1:L:411:LEU:HD13	1:L:412:SER:N	2.14	0.63
1:N:520:LYS:H	1:N:520:LYS:CD	2.09	0.63
1:O:8:LEU:N	1:O:9:PRO:HD3	2.13	0.63
1:O:105:ARG:HA	1:O:108:GLU:CD	2.23	0.63
1:O:152:LYS:O	1:O:156:THR:HG23	1.98	0.63
1:D:273:VAL:HB	1:D:298:LEU:CD1	2.28	0.63
1:E:458:LYS:HD3	1:E:479:ALA:HA	1.80	0.63
1:E:515:VAL:HG22	1:E:517:ALA:H	1.64	0.63
1:J:236:ASN:O	1:J:237:CYS:HB2	1.98	0.63
1:J:515:VAL:HG22	1:J:517:ALA:H	1.64	0.63
1:K:411:LEU:HD13	1:K:412:SER:N	2.14	0.63
1:L:236:ASN:O	1:L:237:CYS:HB2	1.98	0.63
1:L:458:LYS:HD3	1:L:479:ALA:HA	1.80	0.63
1:L:515:VAL:HG22	1:L:517:ALA:H	1.64	0.63
1:M:273:VAL:HB	1:M:298:LEU:CD1	2.28	0.63
1:N:515:VAL:HG22	1:N:517:ALA:H	1.64	0.63
1:O:248:ALA:O	1:O:249:GLU:HB2	1.97	0.63
1:A:8:LEU:N	1:A:9:PRO:HD3	2.13	0.63
1:A:273:VAL:HB	1:A:298:LEU:CD1	2.28	0.63
1:C:242:LYS:HG2	1:C:244:THR:HB	1.80	0.63
1:C:515:VAL:HG22	1:C:517:ALA:H	1.64	0.63
1:E:267:LYS:HD2	1:E:270:LYS:HE2	1.81	0.63
1:E:455:ILE:O	1:E:458:LYS:HB3	1.99	0.63
1:F:273:VAL:HB	1:F:298:LEU:CD1	2.28	0.63
1:F:411:LEU:HD13	1:F:412:SER:N	2.14	0.63
1:F:458:LYS:HD3	1:F:479:ALA:HA	1.80	0.63
1:G:515:VAL:HG22	1:G:517:ALA:H	1.64	0.63
1:H:242:LYS:HD3	1:H:242:LYS:N	2.03	0.63
1:H:458:LYS:HD3	1:H:479:ALA:HA	1.80	0.63
1:K:273:VAL:HB	1:K:298:LEU:CD1	2.28	0.63
1:K:458:LYS:HD3	1:K:479:ALA:HA	1.80	0.63
1:L:267:LYS:HD2	1:L:270:LYS:HE2	1.81	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:310:LYS:O	1:L:314:MET:SD	2.57	0.63
1:L:455:ILE:O	1:L:458:LYS:HB3	1.99	0.63
1:A:242:LYS:HG2	1:A:244:THR:HB	1.80	0.63
1:A:310:LYS:O	1:A:314:MET:SD	2.57	0.63
1:B:273:VAL:HB	1:B:298:LEU:CD1	2.28	0.63
1:C:310:LYS:O	1:C:314:MET:SD	2.57	0.63
1:E:273:VAL:HB	1:E:298:LEU:CD1	2.28	0.63
1:E:310:LYS:O	1:E:314:MET:SD	2.57	0.63
1:F:310:LYS:O	1:F:314:MET:SD	2.57	0.63
1:G:310:LYS:O	1:G:314:MET:SD	2.57	0.63
1:I:233:ALA:HB2	1:I:281:ALA:C	2.24	0.63
1:I:458:LYS:HD3	1:I:479:ALA:HA	1.80	0.63
1:J:310:LYS:O	1:J:314:MET:SD	2.57	0.63
1:K:267:LYS:HD2	1:K:270:LYS:HE2	1.81	0.63
1:K:310:LYS:O	1:K:314:MET:SD	2.57	0.63
1:L:273:VAL:HB	1:L:298:LEU:CD1	2.28	0.63
1:M:29:ARG:NH2	1:M:105:ARG:HG3	2.11	0.63
1:O:123:GLY:HA3	1:O:430:VAL:HG22	1.80	0.63
1:O:233:ALA:HB2	1:O:281:ALA:C	2.24	0.63
1:O:273:VAL:HB	1:O:298:LEU:CD1	2.28	0.63
1:O:410:GLU:HB2	1:O:468:ASN:ND2	2.13	0.63
1:P:242:LYS:HG2	1:P:244:THR:HB	1.80	0.63
1:P:248:ALA:O	1:P:249:GLU:HB2	1.98	0.63
1:P:310:LYS:O	1:P:314:MET:SD	2.57	0.63
1:A:46:LYS:HE2	1:A:58:THR:HG22	1.81	0.63
1:A:248:ALA:O	1:A:249:GLU:HB2	1.98	0.63
1:B:123:GLY:HA3	1:B:430:VAL:HG22	1.80	0.63
1:E:411:LEU:O	1:E:415:LEU:HD13	1.99	0.63
1:F:267:LYS:HD2	1:F:270:LYS:HE2	1.81	0.63
1:H:198:LYS:HA	1:H:370:ARG:O	1.97	0.63
1:H:233:ALA:HB2	1:H:281:ALA:C	2.24	0.63
1:I:455:ILE:O	1:I:458:LYS:HB3	1.98	0.63
1:K:105:ARG:HA	1:K:108:GLU:CD	2.23	0.63
1:L:123:GLY:HA3	1:L:430:VAL:HG22	1.80	0.63
1:L:411:LEU:O	1:L:415:LEU:HD13	1.99	0.63
1:L:510:LEU:C	1:L:512:ILE:H	2.06	0.63
1:N:242:LYS:HG2	1:N:244:THR:HB	1.80	0.63
1:N:310:LYS:O	1:N:314:MET:SD	2.57	0.63
1:N:510:LEU:C	1:N:512:ILE:H	2.06	0.63
1:O:242:LYS:HG2	1:O:244:THR:HB	1.80	0.63
1:P:214:VAL:HG22	1:P:316:LYS:HG3	1.80	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:410:GLU:HB2	1:P:468:ASN:ND2	2.13	0.63
1:A:411:LEU:HD13	1:A:412:SER:N	2.14	0.62
1:A:480:VAL:HG12	1:A:481:GLU:N	2.13	0.62
1:B:242:LYS:HG2	1:B:244:THR:HB	1.80	0.62
1:D:233:ALA:HB2	1:D:281:ALA:C	2.24	0.62
1:D:267:LYS:HD2	1:D:270:LYS:HE2	1.81	0.62
1:D:455:ILE:O	1:D:458:LYS:HB3	1.98	0.62
1:G:287:GLN:NE2	1:G:314:MET:SD	2.72	0.62
1:H:310:LYS:O	1:H:314:MET:SD	2.57	0.62
1:H:455:ILE:O	1:H:458:LYS:HB3	1.98	0.62
1:I:310:LYS:O	1:I:314:MET:SD	2.57	0.62
1:K:214:VAL:HG22	1:K:316:LYS:HG3	1.79	0.62
1:L:248:ALA:O	1:L:249:GLU:HB2	1.98	0.62
1:M:41:PRO:HB2	1:M:444:LEU:HD21	1.80	0.62
1:M:233:ALA:HB2	1:M:281:ALA:C	2.24	0.62
1:M:236:ASN:O	1:M:237:CYS:HB2	1.98	0.62
1:M:267:LYS:HD2	1:M:270:LYS:HE2	1.81	0.62
1:P:236:ASN:O	1:P:237:CYS:HB2	1.98	0.62
1:A:233:ALA:HB2	1:A:281:ALA:C	2.24	0.62
1:A:236:ASN:O	1:A:237:CYS:HB2	1.98	0.62
1:B:410:GLU:HB2	1:B:468:ASN:ND2	2.14	0.62
1:D:29:ARG:NH2	1:D:105:ARG:HG3	2.11	0.62
1:E:123:GLY:HA3	1:E:430:VAL:HG22	1.80	0.62
1:F:105:ARG:HA	1:F:108:GLU:CD	2.23	0.62
1:G:46:LYS:HE2	1:G:58:THR:HG22	1.81	0.62
1:G:105:ARG:HA	1:G:108:GLU:CD	2.23	0.62
1:G:267:LYS:HD2	1:G:270:LYS:HE2	1.81	0.62
1:H:267:LYS:HD2	1:H:270:LYS:HE2	1.81	0.62
1:I:198:LYS:HA	1:I:370:ARG:O	1.97	0.62
1:J:46:LYS:HE2	1:J:58:THR:HG22	1.81	0.62
1:J:267:LYS:HD2	1:J:270:LYS:HE2	1.81	0.62
1:J:287:GLN:NE2	1:J:314:MET:SD	2.72	0.62
1:K:41:PRO:HB2	1:K:444:LEU:HD21	1.80	0.62
1:K:411:LEU:O	1:K:415:LEU:HD13	1.99	0.62
1:M:455:ILE:O	1:M:458:LYS:HB3	1.98	0.62
1:P:411:LEU:HD13	1:P:412:SER:N	2.14	0.62
1:P:455:ILE:O	1:P:458:LYS:HB3	1.99	0.62
1:A:214:VAL:HG22	1:A:316:LYS:HG3	1.80	0.62
1:B:233:ALA:HB2	1:B:281:ALA:C	2.24	0.62
1:B:378:GLU:O	1:B:382:ARG:HD2	1.98	0.62
1:C:46:LYS:HE2	1:C:58:THR:HG22	1.81	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:169:LYS:HZ2	1:C:173:ILE:HD11	1.64	0.62
1:D:214:VAL:HG22	1:D:316:LYS:HG3	1.79	0.62
1:E:248:ALA:O	1:E:249:GLU:HB2	1.98	0.62
1:E:510:LEU:C	1:E:512:ILE:H	2.06	0.62
1:F:214:VAL:HG22	1:F:316:LYS:HG3	1.79	0.62
1:F:411:LEU:O	1:F:415:LEU:HD13	1.99	0.62
1:G:458:LYS:HD3	1:G:479:ALA:HA	1.80	0.62
1:H:411:LEU:O	1:H:415:LEU:HD13	1.99	0.62
1:I:123:GLY:HA3	1:I:430:VAL:HG22	1.80	0.62
1:I:267:LYS:HD2	1:I:270:LYS:HE2	1.81	0.62
1:I:287:GLN:NE2	1:I:314:MET:SD	2.72	0.62
1:I:411:LEU:O	1:I:415:LEU:HD13	1.99	0.62
1:J:458:LYS:HD3	1:J:479:ALA:HA	1.80	0.62
1:K:248:ALA:O	1:K:249:GLU:HB2	1.97	0.62
1:M:480:VAL:HG12	1:M:481:GLU:N	2.13	0.62
1:N:233:ALA:HB2	1:N:281:ALA:C	2.24	0.62
1:N:242:LYS:HD3	1:N:242:LYS:N	2.03	0.62
1:N:458:LYS:HD3	1:N:479:ALA:HA	1.80	0.62
1:O:310:LYS:O	1:O:314:MET:SD	2.57	0.62
1:P:233:ALA:HB2	1:P:281:ALA:C	2.24	0.62
1:P:515:VAL:HG22	1:P:517:ALA:H	1.64	0.62
1:A:99:VAL:HG23	1:A:440:ILE:CG1	2.24	0.62
1:A:410:GLU:HB2	1:A:468:ASN:ND2	2.14	0.62
1:B:248:ALA:O	1:B:249:GLU:HB2	1.98	0.62
1:B:310:LYS:O	1:B:314:MET:SD	2.57	0.62
1:C:410:GLU:HB2	1:C:468:ASN:ND2	2.13	0.62
1:C:411:LEU:O	1:C:415:LEU:HD13	1.99	0.62
1:D:41:PRO:HB2	1:D:444:LEU:HD21	1.80	0.62
1:D:169:LYS:HZ3	1:D:207:GLU:HG3	1.63	0.62
1:D:236:ASN:O	1:D:237:CYS:HB2	1.98	0.62
1:D:480:VAL:HG12	1:D:481:GLU:N	2.13	0.62
1:F:41:PRO:HB2	1:F:444:LEU:HD21	1.80	0.62
1:H:236:ASN:O	1:H:237:CYS:HB2	1.98	0.62
1:I:236:ASN:O	1:I:237:CYS:HB2	1.98	0.62
1:J:105:ARG:HA	1:J:108:GLU:CD	2.23	0.62
1:J:233:ALA:HB2	1:J:281:ALA:C	2.24	0.62
1:M:46:LYS:HE2	1:M:58:THR:HG22	1.81	0.62
1:O:378:GLU:O	1:O:382:ARG:HD2	1.98	0.62
1:P:46:LYS:HE2	1:P:58:THR:HG22	1.81	0.62
1:P:123:GLY:HA3	1:P:430:VAL:HG22	1.80	0.62
1:P:480:VAL:HG12	1:P:481:GLU:N	2.13	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:455:ILE:O	1:A:458:LYS:HB3	1.99	0.62
1:A:515:VAL:HG22	1:A:517:ALA:H	1.64	0.62
1:B:46:LYS:HE2	1:B:58:THR:HG22	1.81	0.62
1:C:233:ALA:HB2	1:C:281:ALA:C	2.24	0.62
1:C:455:ILE:O	1:C:458:LYS:HB3	1.99	0.62
1:C:458:LYS:HD3	1:C:479:ALA:HA	1.80	0.62
1:E:225:LYS:HE3	1:E:347:LYS:HG2	1.82	0.62
1:F:225:LYS:HE3	1:F:347:LYS:HG2	1.81	0.62
1:F:233:ALA:HB2	1:F:281:ALA:C	2.24	0.62
1:G:233:ALA:HB2	1:G:281:ALA:C	2.24	0.62
1:H:123:GLY:HA3	1:H:430:VAL:HG22	1.80	0.62
1:H:287:GLN:NE2	1:H:314:MET:SD	2.72	0.62
1:J:411:LEU:O	1:J:415:LEU:HD13	1.99	0.62
1:K:233:ALA:HB2	1:K:281:ALA:C	2.24	0.62
1:L:225:LYS:HE3	1:L:347:LYS:HG2	1.82	0.62
1:M:214:VAL:HG22	1:M:316:LYS:HG3	1.79	0.62
1:M:458:LYS:HD3	1:M:479:ALA:HA	1.80	0.62
1:N:46:LYS:HE2	1:N:58:THR:HG22	1.81	0.62
1:N:410:GLU:HB2	1:N:468:ASN:ND2	2.13	0.62
1:N:411:LEU:O	1:N:415:LEU:HD13	1.99	0.62
1:N:455:ILE:O	1:N:458:LYS:HB3	1.99	0.62
1:O:46:LYS:HE2	1:O:58:THR:HG22	1.81	0.62
1:O:455:ILE:O	1:O:458:LYS:HB3	1.98	0.62
1:A:236:ASN:HD22	1:A:314:MET:HE2	1.65	0.62
1:B:99:VAL:HG23	1:B:440:ILE:CG1	2.24	0.62
1:B:455:ILE:O	1:B:458:LYS:HB3	1.98	0.62
1:C:236:ASN:HD22	1:C:314:MET:HE2	1.65	0.62
1:D:46:LYS:HE2	1:D:58:THR:HG22	1.81	0.62
1:D:458:LYS:HD3	1:D:479:ALA:HA	1.80	0.62
1:F:187:LYS:CE	1:G:347:LYS:HZ3	2.12	0.62
1:G:411:LEU:O	1:G:415:LEU:HD13	1.99	0.62
1:H:510:LEU:C	1:H:512:ILE:H	2.06	0.62
1:H:515:VAL:HG22	1:H:517:ALA:H	1.64	0.62
1:K:225:LYS:HE3	1:K:347:LYS:HG2	1.81	0.62
1:M:515:VAL:HG22	1:M:517:ALA:H	1.64	0.62
1:P:99:VAL:HG23	1:P:440:ILE:CG1	2.24	0.62
1:P:287:GLN:NE2	1:P:314:MET:SD	2.72	0.62
1:C:242:LYS:HD3	1:C:242:LYS:N	2.03	0.62
1:D:225:LYS:HE3	1:D:347:LYS:HG2	1.81	0.62
1:E:214:VAL:HG22	1:E:316:LYS:HG3	1.80	0.62
1:E:233:ALA:HB2	1:E:281:ALA:C	2.24	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:411:LEU:HD13	1:G:412:SER:N	2.14	0.62
1:I:41:PRO:HB2	1:I:444:LEU:HD21	1.80	0.62
1:L:214:VAL:HG22	1:L:316:LYS:HG3	1.80	0.62
1:M:287:GLN:NE2	1:M:314:MET:SD	2.72	0.62
1:N:236:ASN:HD22	1:N:314:MET:HE2	1.65	0.62
1:O:99:VAL:HG23	1:O:440:ILE:CG1	2.24	0.62
1:P:236:ASN:HD22	1:P:314:MET:HE2	1.65	0.62
1:P:267:LYS:HD2	1:P:270:LYS:HE2	1.81	0.62
1:A:267:LYS:HD2	1:A:270:LYS:HE2	1.81	0.62
1:A:287:GLN:NE2	1:A:314:MET:SD	2.73	0.62
1:C:44:MET:SD	1:C:45:ASP:OD1	2.58	0.62
1:D:287:GLN:NE2	1:D:314:MET:SD	2.72	0.62
1:D:411:LEU:O	1:D:415:LEU:HD13	1.99	0.62
1:D:515:VAL:HG22	1:D:517:ALA:H	1.64	0.62
1:E:46:LYS:HE2	1:E:58:THR:HG22	1.81	0.62
1:F:123:GLY:HA3	1:F:430:VAL:HG22	1.80	0.62
1:F:236:ASN:HD22	1:F:314:MET:HE2	1.65	0.62
1:F:248:ALA:O	1:F:249:GLU:HB2	1.98	0.62
1:F:515:VAL:HG22	1:F:517:ALA:H	1.64	0.62
1:G:225:LYS:HE3	1:G:347:LYS:HG2	1.82	0.62
1:H:411:LEU:HD13	1:H:412:SER:N	2.14	0.62
1:I:46:LYS:HE2	1:I:58:THR:HG22	1.81	0.62
1:J:44:MET:SD	1:J:45:ASP:OD1	2.58	0.62
1:J:225:LYS:HE3	1:J:347:LYS:HG2	1.82	0.62
1:J:411:LEU:HD13	1:J:412:SER:N	2.14	0.62
1:K:515:VAL:HG22	1:K:517:ALA:H	1.64	0.62
1:M:225:LYS:HE3	1:M:347:LYS:HG2	1.81	0.62
1:O:44:MET:SD	1:O:45:ASP:OD1	2.58	0.62
1:A:123:GLY:HA3	1:A:430:VAL:HG22	1.80	0.62
1:D:63:THR:HA	1:D:66:ARG:HD3	1.82	0.62
1:D:310:LYS:O	1:D:314:MET:SD	2.57	0.62
1:D:520:LYS:HD3	1:D:520:LYS:N	2.15	0.62
1:G:44:MET:SD	1:G:45:ASP:OD1	2.58	0.62
1:H:41:PRO:HB2	1:H:444:LEU:HD21	1.80	0.62
1:I:510:LEU:C	1:I:512:ILE:H	2.06	0.62
1:I:515:VAL:HG22	1:I:517:ALA:H	1.64	0.62
1:K:123:GLY:HA3	1:K:430:VAL:HG22	1.80	0.62
1:K:236:ASN:HD22	1:K:314:MET:HE2	1.65	0.62
1:L:46:LYS:HE2	1:L:58:THR:HG22	1.81	0.62
1:L:233:ALA:HB2	1:L:281:ALA:C	2.24	0.62
1:M:63:THR:HA	1:M:66:ARG:HD3	1.82	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:310:LYS:O	1:M:314:MET:SD	2.57	0.62
1:M:411:LEU:O	1:M:415:LEU:HD13	1.99	0.62
1:M:510:LEU:C	1:M:512:ILE:H	2.06	0.62
1:M:520:LYS:N	1:M:520:LYS:HD3	2.15	0.62
1:O:411:LEU:O	1:O:415:LEU:HD13	1.99	0.62
1:B:287:GLN:NE2	1:B:314:MET:SD	2.72	0.62
1:B:411:LEU:O	1:B:415:LEU:HD13	1.99	0.62
1:E:63:THR:HA	1:E:66:ARG:HD3	1.82	0.62
1:E:287:GLN:NE2	1:E:314:MET:SD	2.72	0.62
1:F:287:GLN:NE2	1:F:314:MET:SD	2.72	0.62
1:G:450:LEU:HD13	1:K:450:LEU:HD13	1.82	0.62
1:H:46:LYS:HE2	1:H:58:THR:HG22	1.81	0.62
1:I:411:LEU:HD13	1:I:412:SER:N	2.14	0.62
1:I:520:LYS:HD3	1:I:520:LYS:N	2.15	0.62
1:L:63:THR:HA	1:L:66:ARG:HD3	1.82	0.62
1:L:287:GLN:NE2	1:L:314:MET:SD	2.72	0.62
1:N:44:MET:SD	1:N:45:ASP:OD1	2.58	0.62
1:O:287:GLN:NE2	1:O:314:MET:SD	2.72	0.62
1:B:44:MET:SD	1:B:45:ASP:OD1	2.59	0.61
1:C:63:THR:HA	1:C:66:ARG:HD3	1.82	0.61
1:C:267:LYS:HD2	1:C:270:LYS:HE2	1.81	0.61
1:C:277:LYS:CG	1:C:301:GLU:HB3	2.20	0.61
1:C:287:GLN:NE2	1:C:314:MET:SD	2.72	0.61
1:E:44:MET:SD	1:E:45:ASP:OD1	2.58	0.61
1:F:450:LEU:HD13	1:J:450:LEU:HD13	1.82	0.61
1:G:455:ILE:O	1:G:458:LYS:HB3	1.99	0.61
1:G:500:GLN:HA	1:G:500:GLN:NE2	2.15	0.61
1:H:520:LYS:HD3	1:H:520:LYS:N	2.15	0.61
1:J:236:ASN:HD22	1:J:314:MET:HE2	1.65	0.61
1:J:455:ILE:O	1:J:458:LYS:HB3	1.99	0.61
1:J:500:GLN:HA	1:J:500:GLN:NE2	2.15	0.61
1:K:46:LYS:HE2	1:K:58:THR:HG22	1.81	0.61
1:K:287:GLN:NE2	1:K:314:MET:SD	2.72	0.61
1:N:63:THR:HA	1:N:66:ARG:HD3	1.82	0.61
1:N:287:GLN:NE2	1:N:314:MET:SD	2.72	0.61
1:O:41:PRO:HB2	1:O:444:LEU:HD21	1.80	0.61
1:A:411:LEU:O	1:A:415:LEU:HD13	1.99	0.61
1:B:41:PRO:HB2	1:B:444:LEU:HD21	1.80	0.61
1:B:110:LEU:HD22	1:B:111:LEU:H	1.66	0.61
1:C:480:VAL:HG12	1:C:481:GLU:N	2.13	0.61
1:F:44:MET:SD	1:F:45:ASP:OD1	2.58	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:520:LYS:HD3	1:F:520:LYS:N	2.15	0.61
1:H:110:LEU:HD22	1:H:111:LEU:H	1.66	0.61
1:H:156:THR:HG21	1:H:170:LEU:CA	2.30	0.61
1:I:26:LEU:O	1:I:30:ILE:HG22	2.01	0.61
1:I:110:LEU:HD22	1:I:111:LEU:H	1.66	0.61
1:K:44:MET:SD	1:K:45:ASP:OD1	2.58	0.61
1:K:520:LYS:HD3	1:K:520:LYS:N	2.15	0.61
1:O:110:LEU:HD22	1:O:111:LEU:H	1.65	0.61
1:O:267:LYS:HD2	1:O:270:LYS:HE2	1.81	0.61
1:O:520:LYS:HD3	1:O:520:LYS:N	2.15	0.61
1:P:110:LEU:HD22	1:P:111:LEU:H	1.66	0.61
1:A:110:LEU:HD22	1:A:111:LEU:H	1.66	0.61
1:A:253:THR:HG23	1:H:253:THR:OG1	2.01	0.61
1:A:277:LYS:CG	1:A:301:GLU:HB3	2.20	0.61
1:B:520:LYS:N	1:B:520:LYS:HD3	2.15	0.61
1:C:442:ARG:CZ	1:C:455:ILE:HG13	2.31	0.61
1:F:46:LYS:HE2	1:F:58:THR:HG22	1.81	0.61
1:G:110:LEU:HD22	1:G:111:LEU:H	1.66	0.61
1:G:156:THR:HG21	1:G:170:LEU:CA	2.30	0.61
1:G:236:ASN:HD22	1:G:314:MET:HE2	1.65	0.61
1:H:26:LEU:O	1:H:30:ILE:HG22	2.01	0.61
1:I:156:THR:HG21	1:I:170:LEU:CA	2.30	0.61
1:J:110:LEU:HD22	1:J:111:LEU:H	1.66	0.61
1:L:44:MET:SD	1:L:45:ASP:OD1	2.58	0.61
1:L:236:ASN:HD22	1:L:314:MET:HE2	1.65	0.61
1:L:410:GLU:HB2	1:L:468:ASN:ND2	2.13	0.61
1:N:267:LYS:HD2	1:N:270:LYS:HE2	1.81	0.61
1:N:442:ARG:CZ	1:N:455:ILE:HG13	2.31	0.61
1:P:411:LEU:O	1:P:415:LEU:HD13	1.99	0.61
1:A:44:MET:SD	1:A:45:ASP:OD1	2.58	0.61
1:A:154:ALA:HB1	1:A:488:VAL:HG13	1.83	0.61
1:B:267:LYS:HD2	1:B:270:LYS:HE2	1.81	0.61
1:D:510:LEU:C	1:D:512:ILE:H	2.06	0.61
1:E:236:ASN:HD22	1:E:314:MET:HE2	1.65	0.61
1:F:26:LEU:O	1:F:30:ILE:HG22	2.01	0.61
1:G:42:LYS:NZ	1:G:446:GLU:HG3	2.16	0.61
1:G:242:LYS:HE2	1:G:244:THR:HB	1.83	0.61
1:I:225:LYS:HE3	1:I:347:LYS:HG2	1.81	0.61
1:I:347:LYS:HZ3	1:J:187:LYS:CE	2.12	0.61
1:J:42:LYS:NZ	1:J:446:GLU:HG3	2.16	0.61
1:J:242:LYS:HE2	1:J:244:THR:HB	1.83	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:26:LEU:O	1:K:30:ILE:HG22	2.01	0.61
1:K:110:LEU:HD22	1:K:111:LEU:H	1.66	0.61
1:M:44:MET:SD	1:M:45:ASP:OD1	2.58	0.61
1:N:277:LYS:CG	1:N:301:GLU:HB3	2.20	0.61
1:N:480:VAL:HG12	1:N:481:GLU:N	2.13	0.61
1:O:13:LYS:C	1:O:14:ARG:HD3	2.26	0.61
1:P:156:THR:HG21	1:P:170:LEU:CA	2.30	0.61
1:P:442:ARG:CZ	1:P:455:ILE:HG13	2.31	0.61
1:A:117:PRO:O	1:A:120:VAL:HG12	2.01	0.61
1:A:442:ARG:CZ	1:A:455:ILE:HG13	2.31	0.61
1:B:13:LYS:C	1:B:14:ARG:HD3	2.26	0.61
1:B:42:LYS:NZ	1:B:446:GLU:HG3	2.16	0.61
1:B:233:ALA:HB2	1:B:281:ALA:CB	2.31	0.61
1:B:394:THR:HB	1:B:491:PRO:HB3	1.81	0.61
1:D:44:MET:SD	1:D:45:ASP:OD1	2.58	0.61
1:E:410:GLU:HB2	1:E:468:ASN:ND2	2.13	0.61
1:F:110:LEU:HD22	1:F:111:LEU:H	1.66	0.61
1:G:123:GLY:HA3	1:G:430:VAL:HG22	1.80	0.61
1:H:225:LYS:HE3	1:H:347:LYS:HG2	1.81	0.61
1:I:154:ALA:HB1	1:I:488:VAL:HG13	1.83	0.61
1:I:242:LYS:HE2	1:I:244:THR:HB	1.83	0.61
1:I:253:THR:OG1	1:P:253:THR:HG23	2.01	0.61
1:J:156:THR:HG21	1:J:170:LEU:CA	2.30	0.61
1:O:154:ALA:HB1	1:O:488:VAL:HG13	1.83	0.61
1:P:44:MET:SD	1:P:45:ASP:OD1	2.58	0.61
1:P:117:PRO:O	1:P:120:VAL:HG12	2.01	0.61
1:C:26:LEU:O	1:C:30:ILE:HG22	2.01	0.61
1:C:110:LEU:HD22	1:C:111:LEU:H	1.66	0.61
1:E:520:LYS:HE3	1:F:68:MET:H	1.66	0.61
1:F:242:LYS:HE2	1:F:244:THR:HB	1.83	0.61
1:H:13:LYS:C	1:H:14:ARG:HD3	2.26	0.61
1:H:154:ALA:HB1	1:H:488:VAL:HG13	1.83	0.61
1:H:236:ASN:HD22	1:H:314:MET:HE2	1.65	0.61
1:H:242:LYS:HE2	1:H:244:THR:HB	1.83	0.61
1:I:13:LYS:C	1:I:14:ARG:HD3	2.26	0.61
1:I:44:MET:SD	1:I:45:ASP:OD1	2.58	0.61
1:K:63:THR:HA	1:K:66:ARG:HD3	1.82	0.61
1:N:26:LEU:O	1:N:30:ILE:HG22	2.01	0.61
1:O:42:LYS:NZ	1:O:446:GLU:HG3	2.16	0.61
1:O:233:ALA:HB2	1:O:281:ALA:CB	2.31	0.61
1:O:242:LYS:HE2	1:O:244:THR:HB	1.83	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:277:LYS:CG	1:P:301:GLU:HB3	2.20	0.61
1:A:242:LYS:HE2	1:A:244:THR:HB	1.83	0.61
1:B:515:VAL:HG22	1:B:517:ALA:H	1.64	0.61
1:C:117:PRO:O	1:C:120:VAL:HG12	2.01	0.61
1:C:234:LEU:HD22	1:C:322:GLY:HA3	1.82	0.61
1:E:200:GLY:HA2	1:E:349:SER:HB2	1.83	0.61
1:E:233:ALA:HB2	1:E:281:ALA:CB	2.31	0.61
1:F:63:THR:HA	1:F:66:ARG:HD3	1.82	0.61
1:H:44:MET:SD	1:H:45:ASP:OD1	2.58	0.61
1:H:480:VAL:HG12	1:H:481:GLU:N	2.13	0.61
1:I:236:ASN:HD22	1:I:314:MET:HE2	1.65	0.61
1:J:103:LEU:HG	1:J:433:PHE:HA	1.83	0.61
1:J:154:ALA:HB1	1:J:488:VAL:HG13	1.83	0.61
1:J:253:THR:HG23	1:K:253:THR:OG1	2.01	0.61
1:K:49:VAL:CG1	1:K:50:ASP:H	1.94	0.61
1:K:68:MET:H	1:L:520:LYS:HE3	1.66	0.61
1:K:234:LEU:HD22	1:K:322:GLY:HA3	1.82	0.61
1:K:242:LYS:HE2	1:K:244:THR:HB	1.83	0.61
1:L:200:GLY:HA2	1:L:349:SER:HB2	1.83	0.61
1:M:233:ALA:HB2	1:M:281:ALA:CB	2.31	0.61
1:N:110:LEU:HD22	1:N:111:LEU:H	1.66	0.61
1:N:200:GLY:HA2	1:N:349:SER:HB2	1.83	0.61
1:N:234:LEU:HD22	1:N:322:GLY:HA3	1.82	0.61
1:N:520:LYS:HD3	1:N:520:LYS:N	2.15	0.61
1:O:117:PRO:O	1:O:120:VAL:HG12	2.01	0.61
1:P:154:ALA:HB1	1:P:488:VAL:HG13	1.83	0.61
1:A:13:LYS:C	1:A:14:ARG:HD3	2.26	0.61
1:A:103:LEU:HG	1:A:433:PHE:HA	1.83	0.61
1:A:230:ALA:HB2	1:A:303:ILE:HD13	1.83	0.61
1:A:520:LYS:HD3	1:A:520:LYS:N	2.15	0.61
1:B:26:LEU:O	1:B:30:ILE:HG22	2.01	0.61
1:B:63:THR:HA	1:B:66:ARG:HD3	1.82	0.61
1:B:154:ALA:HB1	1:B:488:VAL:HG13	1.83	0.61
1:C:200:GLY:HA2	1:C:349:SER:HB2	1.83	0.61
1:C:520:LYS:HD3	1:C:520:LYS:N	2.15	0.61
1:D:42:LYS:NZ	1:D:446:GLU:HG3	2.16	0.61
1:D:170:LEU:CD2	1:D:171:ALA:H	2.14	0.61
1:D:233:ALA:HB2	1:D:281:ALA:CB	2.31	0.61
1:E:26:LEU:O	1:E:30:ILE:HG22	2.01	0.61
1:F:13:LYS:C	1:F:14:ARG:HD3	2.26	0.61
1:F:49:VAL:CG1	1:F:50:ASP:H	1.94	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:103:LEU:HG	1:F:433:PHE:HA	1.83	0.61
1:F:234:LEU:HD22	1:F:322:GLY:HA3	1.82	0.61
1:F:253:THR:OG1	1:G:253:THR:HG23	2.01	0.61
1:G:13:LYS:C	1:G:14:ARG:HD3	2.26	0.61
1:G:103:LEU:HG	1:G:433:PHE:HA	1.83	0.61
1:G:154:ALA:HB1	1:G:488:VAL:HG13	1.83	0.61
1:G:234:LEU:HD22	1:G:322:GLY:HA3	1.82	0.61
1:H:469:LYS:HZ3	1:H:486:ASN:HB3	1.65	0.61
1:I:480:VAL:HG12	1:I:481:GLU:N	2.13	0.61
1:J:123:GLY:HA3	1:J:430:VAL:HG22	1.80	0.61
1:K:13:LYS:C	1:K:14:ARG:HD3	2.26	0.61
1:K:103:LEU:HG	1:K:433:PHE:HA	1.83	0.61
1:K:170:LEU:CD2	1:K:171:ALA:H	2.14	0.61
1:K:214:VAL:H	1:K:366:THR:HG21	1.66	0.61
1:L:233:ALA:HB2	1:L:281:ALA:CB	2.31	0.61
1:M:42:LYS:NZ	1:M:446:GLU:HG3	2.16	0.61
1:M:170:LEU:CD2	1:M:171:ALA:H	2.14	0.61
1:N:117:PRO:O	1:N:120:VAL:HG12	2.01	0.61
1:O:26:LEU:O	1:O:30:ILE:HG22	2.01	0.61
1:O:442:ARG:CZ	1:O:455:ILE:HG13	2.31	0.61
1:P:13:LYS:C	1:P:14:ARG:HD3	2.26	0.61
1:P:230:ALA:HB2	1:P:303:ILE:HD13	1.83	0.61
1:P:242:LYS:HE2	1:P:244:THR:HB	1.83	0.61
1:B:117:PRO:O	1:B:120:VAL:HG12	2.01	0.61
1:B:230:ALA:HB2	1:B:303:ILE:HD13	1.83	0.61
1:C:154:ALA:HB1	1:C:488:VAL:HG13	1.83	0.61
1:C:187:LYS:CD	1:D:347:LYS:HB3	2.31	0.61
1:D:110:LEU:HD22	1:D:111:LEU:H	1.66	0.61
1:E:42:LYS:NZ	1:E:446:GLU:HG3	2.16	0.61
1:E:187:LYS:CE	1:F:347:LYS:HZ3	2.14	0.61
1:F:170:LEU:CD2	1:F:171:ALA:H	2.14	0.61
1:F:214:VAL:H	1:F:366:THR:HG21	1.66	0.61
1:G:189:ASP:O	1:G:192:LEU:HG	2.01	0.61
1:G:377:ILE:HD12	1:G:380:VAL:CG2	2.30	0.61
1:I:469:LYS:HZ3	1:I:486:ASN:HB3	1.65	0.61
1:J:13:LYS:C	1:J:14:ARG:HD3	2.26	0.61
1:J:189:ASP:O	1:J:192:LEU:HG	2.01	0.61
1:J:377:ILE:HD12	1:J:380:VAL:CG2	2.30	0.61
1:K:49:VAL:CG2	1:L:517:ALA:HB3	2.28	0.61
1:L:26:LEU:O	1:L:30:ILE:HG22	2.01	0.61
1:L:110:LEU:HD22	1:L:111:LEU:H	1.66	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:110:LEU:HD22	1:M:111:LEU:H	1.66	0.61
1:M:347:LYS:HB3	1:N:187:LYS:CD	2.31	0.61
1:N:154:ALA:HB1	1:N:488:VAL:HG13	1.83	0.61
1:N:214:VAL:H	1:N:366:THR:HG21	1.65	0.61
1:O:63:THR:HA	1:O:66:ARG:HD3	1.82	0.61
1:P:42:LYS:NZ	1:P:446:GLU:HG3	2.16	0.61
1:A:347:LYS:HB3	1:H:187:LYS:CD	2.30	0.61
1:B:242:LYS:HE2	1:B:244:THR:HB	1.83	0.61
1:B:442:ARG:CZ	1:B:455:ILE:HG13	2.31	0.61
1:B:500:GLN:HA	1:B:500:GLN:NE2	2.15	0.61
1:D:234:LEU:HD22	1:D:322:GLY:HA3	1.82	0.61
1:E:13:LYS:C	1:E:14:ARG:HD3	2.26	0.61
1:E:110:LEU:HD22	1:E:111:LEU:H	1.66	0.61
1:E:500:GLN:NE2	1:E:500:GLN:HA	2.15	0.61
1:G:198:LYS:HD3	1:G:377:ILE:HG21	1.83	0.61
1:H:42:LYS:NZ	1:H:446:GLU:HG3	2.16	0.61
1:H:230:ALA:HB2	1:H:303:ILE:HD13	1.83	0.61
1:I:442:ARG:CZ	1:I:455:ILE:HG13	2.31	0.61
1:J:198:LYS:HD3	1:J:377:ILE:HG21	1.83	0.61
1:J:234:LEU:HD22	1:J:322:GLY:HA3	1.82	0.61
1:J:410:GLU:HB2	1:J:468:ASN:ND2	2.13	0.61
1:L:13:LYS:C	1:L:14:ARG:HD3	2.26	0.61
1:L:42:LYS:NZ	1:L:446:GLU:HG3	2.16	0.61
1:M:26:LEU:O	1:M:30:ILE:HG22	2.01	0.61
1:O:230:ALA:HB2	1:O:303:ILE:HD13	1.83	0.61
1:O:515:VAL:HG22	1:O:517:ALA:H	1.64	0.61
1:P:520:LYS:HD3	1:P:520:LYS:N	2.15	0.61
1:A:42:LYS:NZ	1:A:446:GLU:HG3	2.16	0.60
1:B:187:LYS:CD	1:C:347:LYS:HB3	2.31	0.60
1:C:214:VAL:H	1:C:366:THR:HG21	1.65	0.60
1:C:500:GLN:NE2	1:C:500:GLN:HA	2.15	0.60
1:D:26:LEU:O	1:D:30:ILE:HG22	2.01	0.60
1:D:99:VAL:HB	1:D:440:ILE:HG21	1.83	0.60
1:D:187:LYS:CD	1:E:347:LYS:HB3	2.31	0.60
1:E:480:VAL:HG12	1:E:481:GLU:N	2.13	0.60
1:F:99:VAL:HB	1:F:440:ILE:HG21	1.83	0.60
1:G:26:LEU:O	1:G:30:ILE:HG22	2.01	0.60
1:G:170:LEU:CD2	1:G:171:ALA:H	2.14	0.60
1:G:520:LYS:HD3	1:G:520:LYS:N	2.15	0.60
1:H:442:ARG:CZ	1:H:455:ILE:HG13	2.31	0.60
1:I:214:VAL:H	1:I:366:THR:HG21	1.66	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:230:ALA:HB2	1:I:303:ILE:HD13	1.83	0.60
1:L:500:GLN:HA	1:L:500:GLN:NE2	2.15	0.60
1:M:234:LEU:HD22	1:M:322:GLY:HA3	1.82	0.60
1:N:347:LYS:HB3	1:O:187:LYS:CD	2.31	0.60
1:N:500:GLN:NE2	1:N:500:GLN:HA	2.15	0.60
1:O:500:GLN:HA	1:O:500:GLN:NE2	2.15	0.60
1:P:103:LEU:HG	1:P:433:PHE:HA	1.83	0.60
1:P:169:LYS:HZ2	1:P:173:ILE:HD11	1.66	0.60
1:A:26:LEU:O	1:A:30:ILE:HG22	2.00	0.60
1:A:170:LEU:CD2	1:A:171:ALA:H	2.14	0.60
1:A:225:LYS:HE3	1:A:347:LYS:HG2	1.82	0.60
1:B:200:GLY:HA2	1:B:349:SER:HB2	1.83	0.60
1:B:236:ASN:HD22	1:B:314:MET:HE2	1.65	0.60
1:D:117:PRO:O	1:D:120:VAL:HG12	2.01	0.60
1:D:442:ARG:HH11	1:D:453:ILE:H	1.50	0.60
1:E:99:VAL:HB	1:E:440:ILE:HG21	1.84	0.60
1:E:442:ARG:CZ	1:E:455:ILE:HG13	2.31	0.60
1:E:517:ALA:HB3	1:F:49:VAL:CG2	2.28	0.60
1:F:161:LYS:C	1:F:163:ALA:H	2.09	0.60
1:F:189:ASP:O	1:F:192:LEU:HG	2.01	0.60
1:G:99:VAL:HB	1:G:440:ILE:HG21	1.84	0.60
1:G:410:GLU:HB2	1:G:468:ASN:ND2	2.13	0.60
1:G:442:ARG:CZ	1:G:455:ILE:HG13	2.31	0.60
1:H:117:PRO:O	1:H:120:VAL:HG12	2.01	0.60
1:H:214:VAL:H	1:H:366:THR:HG21	1.66	0.60
1:H:233:ALA:HB2	1:H:281:ALA:CB	2.31	0.60
1:I:103:LEU:HG	1:I:433:PHE:HA	1.83	0.60
1:I:117:PRO:O	1:I:120:VAL:HG12	2.01	0.60
1:I:189:ASP:O	1:I:192:LEU:HG	2.01	0.60
1:I:233:ALA:HB2	1:I:281:ALA:CB	2.31	0.60
1:J:26:LEU:O	1:J:30:ILE:HG22	2.01	0.60
1:J:99:VAL:HB	1:J:440:ILE:HG21	1.84	0.60
1:J:170:LEU:CD2	1:J:171:ALA:H	2.14	0.60
1:J:520:LYS:N	1:J:520:LYS:HD3	2.15	0.60
1:K:99:VAL:HB	1:K:440:ILE:HG21	1.83	0.60
1:K:161:LYS:C	1:K:163:ALA:H	2.09	0.60
1:L:49:VAL:CG1	1:L:50:ASP:H	1.94	0.60
1:L:347:LYS:HB3	1:M:187:LYS:CD	2.31	0.60
1:L:442:ARG:CZ	1:L:455:ILE:HG13	2.31	0.60
1:L:480:VAL:HG12	1:L:481:GLU:N	2.13	0.60
1:M:99:VAL:HB	1:M:440:ILE:HG21	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:442:ARG:HH11	1:M:453:ILE:H	1.50	0.60
1:N:225:LYS:HE3	1:N:347:LYS:HG2	1.82	0.60
1:N:253:THR:HG23	1:O:253:THR:OG1	2.01	0.60
1:O:236:ASN:HD22	1:O:314:MET:HE2	1.65	0.60
1:A:68:MET:H	1:H:520:LYS:HE3	1.65	0.60
1:A:234:LEU:HD22	1:A:322:GLY:HA3	1.82	0.60
1:B:189:ASP:O	1:B:192:LEU:HG	2.01	0.60
1:B:234:LEU:HD22	1:B:322:GLY:HA3	1.82	0.60
1:B:253:THR:OG1	1:C:253:THR:HG23	2.01	0.60
1:B:520:LYS:HE3	1:C:68:MET:H	1.65	0.60
1:C:450:LEU:HD13	1:O:450:LEU:HD13	1.82	0.60
1:D:198:LYS:HD3	1:D:377:ILE:HG21	1.84	0.60
1:D:236:ASN:HD22	1:D:314:MET:HE2	1.65	0.60
1:E:49:VAL:CG1	1:E:50:ASP:H	1.94	0.60
1:E:161:LYS:C	1:E:163:ALA:H	2.09	0.60
1:G:13:LYS:O	1:G:518:ALA:HA	2.01	0.60
1:G:230:ALA:HB2	1:G:303:ILE:HD13	1.83	0.60
1:G:480:VAL:HG12	1:G:481:GLU:N	2.13	0.60
1:G:520:LYS:HE3	1:H:68:MET:H	1.66	0.60
1:H:103:LEU:HG	1:H:433:PHE:HA	1.83	0.60
1:H:189:ASP:O	1:H:192:LEU:HG	2.01	0.60
1:H:500:GLN:NE2	1:H:500:GLN:HA	2.15	0.60
1:I:187:LYS:CD	1:P:347:LYS:HB3	2.31	0.60
1:I:234:LEU:HD22	1:I:322:GLY:HA3	1.82	0.60
1:I:273:VAL:HG21	1:I:294:ALA:HB1	1.83	0.60
1:J:13:LYS:O	1:J:518:ALA:HA	2.01	0.60
1:J:230:ALA:HB2	1:J:303:ILE:HD13	1.83	0.60
1:J:442:ARG:CZ	1:J:455:ILE:HG13	2.31	0.60
1:J:480:VAL:HG12	1:J:481:GLU:N	2.13	0.60
1:K:189:ASP:O	1:K:192:LEU:HG	2.01	0.60
1:K:233:ALA:HB2	1:K:281:ALA:CB	2.31	0.60
1:L:99:VAL:HB	1:L:440:ILE:HG21	1.84	0.60
1:L:161:LYS:C	1:L:163:ALA:H	2.09	0.60
1:M:117:PRO:O	1:M:120:VAL:HG12	2.01	0.60
1:M:198:LYS:HD3	1:M:377:ILE:HG21	1.84	0.60
1:M:214:VAL:H	1:M:366:THR:HG21	1.66	0.60
1:O:234:LEU:HD22	1:O:322:GLY:HA3	1.82	0.60
1:P:225:LYS:HE3	1:P:347:LYS:HG2	1.82	0.60
1:P:273:VAL:HG21	1:P:294:ALA:HB1	1.83	0.60
1:A:189:ASP:O	1:A:192:LEU:HG	2.01	0.60
1:A:198:LYS:HD3	1:A:377:ILE:HG21	1.82	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:273:VAL:HG21	1:A:294:ALA:HB1	1.83	0.60
1:A:512:ILE:HD11	1:B:47:MET:HB2	1.83	0.60
1:A:520:LYS:HE3	1:B:68:MET:H	1.65	0.60
1:B:103:LEU:HG	1:B:433:PHE:HA	1.83	0.60
1:C:225:LYS:HE3	1:C:347:LYS:HG2	1.82	0.60
1:C:233:ALA:HB2	1:C:281:ALA:CB	2.31	0.60
1:D:70:VAL:HG12	1:D:76:LYS:HD2	1.84	0.60
1:D:231:LYS:HA	1:D:341:GLY:HA2	1.84	0.60
1:D:450:LEU:HD13	1:P:450:LEU:HD13	1.82	0.60
1:E:117:PRO:O	1:E:120:VAL:HG12	2.01	0.60
1:E:520:LYS:N	1:E:520:LYS:HD3	2.15	0.60
1:F:70:VAL:HG12	1:F:76:LYS:HD2	1.84	0.60
1:F:233:ALA:HB2	1:F:281:ALA:CB	2.31	0.60
1:G:187:LYS:CD	1:H:347:LYS:HB3	2.31	0.60
1:H:273:VAL:HG21	1:H:294:ALA:HB1	1.83	0.60
1:I:68:MET:H	1:J:520:LYS:HE3	1.66	0.60
1:I:500:GLN:HA	1:I:500:GLN:NE2	2.15	0.60
1:K:134:LEU:HD12	1:K:411:LEU:HD23	1.83	0.60
1:L:117:PRO:O	1:L:120:VAL:HG12	2.01	0.60
1:M:49:VAL:CG2	1:N:517:ALA:HB3	2.28	0.60
1:M:68:MET:H	1:N:520:LYS:HE3	1.66	0.60
1:M:70:VAL:HG12	1:M:76:LYS:HD2	1.84	0.60
1:M:442:ARG:CZ	1:M:455:ILE:HG13	2.31	0.60
1:N:198:LYS:HD3	1:N:377:ILE:HG21	1.83	0.60
1:N:242:LYS:HE2	1:N:244:THR:HB	1.83	0.60
1:O:189:ASP:O	1:O:192:LEU:HG	2.01	0.60
1:O:214:VAL:H	1:O:366:THR:HG21	1.66	0.60
1:P:26:LEU:O	1:P:30:ILE:HG22	2.01	0.60
1:P:170:LEU:CD2	1:P:171:ALA:H	2.14	0.60
1:P:214:VAL:H	1:P:366:THR:HG21	1.65	0.60
1:P:234:LEU:HD22	1:P:322:GLY:HA3	1.82	0.60
1:B:450:LEU:HD13	1:N:450:LEU:HD13	1.82	0.60
1:C:42:LYS:NZ	1:C:446:GLU:HG3	2.16	0.60
1:C:70:VAL:HG12	1:C:76:LYS:HD2	1.84	0.60
1:C:99:VAL:HB	1:C:440:ILE:HG21	1.84	0.60
1:C:198:LYS:HD3	1:C:377:ILE:HG21	1.83	0.60
1:C:242:LYS:HE2	1:C:244:THR:HB	1.83	0.60
1:C:517:ALA:HB3	1:D:49:VAL:CG2	2.28	0.60
1:D:13:LYS:C	1:D:14:ARG:HD3	2.26	0.60
1:D:200:GLY:HA2	1:D:349:SER:HB2	1.83	0.60
1:D:214:VAL:H	1:D:366:THR:HG21	1.66	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:103:LEU:HG	1:E:433:PHE:HA	1.83	0.60
1:E:170:LEU:CD2	1:E:171:ALA:H	2.14	0.60
1:F:134:LEU:HD12	1:F:411:LEU:HD23	1.83	0.60
1:F:154:ALA:HB1	1:F:488:VAL:HG13	1.83	0.60
1:G:214:VAL:H	1:G:366:THR:HG21	1.65	0.60
1:G:273:VAL:HG21	1:G:294:ALA:HB1	1.83	0.60
1:H:161:LYS:C	1:H:163:ALA:H	2.09	0.60
1:H:234:LEU:HD22	1:H:322:GLY:HA3	1.82	0.60
1:I:161:LYS:C	1:I:163:ALA:H	2.09	0.60
1:I:347:LYS:HB3	1:J:187:LYS:CD	2.31	0.60
1:J:273:VAL:HG21	1:J:294:ALA:HB1	1.83	0.60
1:K:70:VAL:HG12	1:K:76:LYS:HD2	1.84	0.60
1:K:154:ALA:HB1	1:K:488:VAL:HG13	1.83	0.60
1:L:68:MET:H	1:M:520:LYS:HE3	1.66	0.60
1:L:253:THR:HG23	1:M:253:THR:OG1	2.01	0.60
1:L:520:LYS:HD3	1:L:520:LYS:N	2.15	0.60
1:M:13:LYS:C	1:M:14:ARG:HD3	2.26	0.60
1:M:231:LYS:HA	1:M:341:GLY:HA2	1.84	0.60
1:M:236:ASN:HD22	1:M:314:MET:HE2	1.65	0.60
1:N:70:VAL:HG12	1:N:76:LYS:HD2	1.84	0.60
1:O:70:VAL:HG12	1:O:76:LYS:HD2	1.84	0.60
1:O:103:LEU:HG	1:O:433:PHE:HA	1.83	0.60
1:O:200:GLY:HA2	1:O:349:SER:HB2	1.83	0.60
1:O:225:LYS:HE3	1:O:347:LYS:HG2	1.81	0.60
1:A:450:LEU:HD13	1:M:450:LEU:HD13	1.82	0.60
1:B:65:LEU:HD12	1:B:79:ILE:HG23	1.84	0.60
1:B:70:VAL:HG12	1:B:76:LYS:HD2	1.84	0.60
1:C:13:LYS:O	1:C:518:ALA:HA	2.01	0.60
1:C:520:LYS:HE3	1:D:68:MET:H	1.66	0.60
1:D:161:LYS:C	1:D:163:ALA:H	2.09	0.60
1:D:442:ARG:CZ	1:D:455:ILE:HG13	2.31	0.60
1:D:520:LYS:HE3	1:E:68:MET:H	1.66	0.60
1:E:70:VAL:HG12	1:E:76:LYS:HD2	1.84	0.60
1:F:13:LYS:O	1:F:518:ALA:HA	2.01	0.60
1:F:156:THR:HG21	1:F:170:LEU:CA	2.30	0.60
1:G:277:LYS:CG	1:G:301:GLU:HB3	2.20	0.60
1:H:65:LEU:HD12	1:H:79:ILE:HG23	1.84	0.60
1:I:520:LYS:HE3	1:P:68:MET:H	1.66	0.60
1:K:13:LYS:O	1:K:518:ALA:HA	2.01	0.60
1:K:198:LYS:HD3	1:K:377:ILE:HG21	1.84	0.60
1:L:103:LEU:HG	1:L:433:PHE:HA	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:170:LEU:CD2	1:L:171:ALA:H	2.14	0.60
1:M:161:LYS:C	1:M:163:ALA:H	2.09	0.60
1:N:68:MET:H	1:O:520:LYS:HE3	1.66	0.60
1:N:99:VAL:HB	1:N:440:ILE:HG21	1.84	0.60
1:N:231:LYS:HA	1:N:341:GLY:HA2	1.84	0.60
1:N:233:ALA:HB2	1:N:281:ALA:CB	2.31	0.60
1:P:63:THR:HA	1:P:66:ARG:HD3	1.82	0.60
1:A:70:VAL:HG23	1:A:71:GLU:N	2.15	0.60
1:A:187:LYS:CD	1:B:347:LYS:HB3	2.31	0.60
1:A:214:VAL:H	1:A:366:THR:HG21	1.66	0.60
1:A:242:LYS:HD3	1:A:242:LYS:N	2.03	0.60
1:B:170:LEU:CD2	1:B:171:ALA:H	2.14	0.60
1:B:214:VAL:H	1:B:366:THR:HG21	1.66	0.60
1:B:225:LYS:HE3	1:B:347:LYS:HG2	1.82	0.60
1:C:231:LYS:HA	1:C:341:GLY:HA2	1.84	0.60
1:D:253:THR:OG1	1:E:253:THR:HG23	2.01	0.60
1:E:242:LYS:HE2	1:E:244:THR:HB	1.83	0.60
1:E:450:LEU:HD13	1:I:450:LEU:HD13	1.82	0.60
1:F:187:LYS:CD	1:G:347:LYS:HB3	2.31	0.60
1:F:198:LYS:HD3	1:F:377:ILE:HG21	1.84	0.60
1:F:520:LYS:HE3	1:G:68:MET:H	1.66	0.60
1:H:99:VAL:HB	1:H:440:ILE:HG21	1.83	0.60
1:H:483:MET:HE3	1:H:485:GLU:HA	1.84	0.60
1:I:65:LEU:HD12	1:I:79:ILE:HG23	1.84	0.60
1:I:99:VAL:HB	1:I:440:ILE:HG21	1.83	0.60
1:I:170:LEU:CD2	1:I:171:ALA:H	2.14	0.60
1:I:483:MET:HE3	1:I:485:GLU:HA	1.84	0.60
1:J:214:VAL:H	1:J:366:THR:HG21	1.65	0.60
1:K:377:ILE:HD12	1:K:380:VAL:CG2	2.30	0.60
1:L:70:VAL:HG12	1:L:76:LYS:HD2	1.84	0.60
1:L:134:LEU:HD12	1:L:411:LEU:HD23	1.84	0.60
1:L:214:VAL:H	1:L:366:THR:HG21	1.65	0.60
1:M:200:GLY:HA2	1:M:349:SER:HB2	1.83	0.60
1:N:13:LYS:O	1:N:518:ALA:HA	2.01	0.60
1:N:347:LYS:HZ3	1:O:187:LYS:CE	2.13	0.60
1:O:65:LEU:HD12	1:O:79:ILE:HG23	1.84	0.60
1:P:233:ALA:HB2	1:P:281:ALA:CB	2.31	0.60
1:A:99:VAL:HB	1:A:440:ILE:HG21	1.83	0.60
1:B:99:VAL:HB	1:B:440:ILE:HG21	1.83	0.60
1:B:273:VAL:HG21	1:B:294:ALA:HB1	1.83	0.60
1:B:442:ARG:HH11	1:B:453:ILE:H	1.50	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:154:ALA:HB1	1:D:488:VAL:HG13	1.83	0.60
1:E:134:LEU:HD12	1:E:411:LEU:HD23	1.84	0.60
1:E:234:LEU:HD22	1:E:322:GLY:HA3	1.82	0.60
1:F:377:ILE:HD12	1:F:380:VAL:CG2	2.30	0.60
1:F:409:VAL:HG13	1:F:410:GLU:HG2	1.84	0.60
1:F:442:ARG:CZ	1:F:455:ILE:HG13	2.31	0.60
1:F:442:ARG:HH11	1:F:453:ILE:H	1.50	0.60
1:G:63:THR:HA	1:G:66:ARG:HD3	1.82	0.60
1:H:170:LEU:CD2	1:H:171:ALA:H	2.14	0.60
1:H:194:LYS:HZ1	1:H:316:LYS:HD2	1.65	0.60
1:I:49:VAL:CG2	1:J:517:ALA:HB3	2.28	0.60
1:I:194:LYS:HZ1	1:I:316:LYS:HD2	1.65	0.60
1:J:63:THR:HA	1:J:66:ARG:HD3	1.82	0.60
1:J:134:LEU:HD12	1:J:411:LEU:HD23	1.84	0.60
1:J:347:LYS:HB3	1:K:187:LYS:CD	2.31	0.60
1:K:156:THR:HG21	1:K:170:LEU:CA	2.30	0.60
1:K:409:VAL:HG13	1:K:410:GLU:HG2	1.84	0.60
1:K:442:ARG:CZ	1:K:455:ILE:HG13	2.31	0.60
1:K:442:ARG:HH11	1:K:453:ILE:H	1.50	0.60
1:K:500:GLN:NE2	1:K:500:GLN:HA	2.15	0.60
1:L:234:LEU:HD22	1:L:322:GLY:HA3	1.82	0.60
1:L:242:LYS:HE2	1:L:244:THR:HB	1.83	0.60
1:M:65:LEU:HD12	1:M:79:ILE:HG23	1.84	0.60
1:M:154:ALA:HB1	1:M:488:VAL:HG13	1.83	0.60
1:O:68:MET:H	1:P:520:LYS:HE3	1.66	0.60
1:O:99:VAL:HB	1:O:440:ILE:HG21	1.83	0.60
1:O:110:LEU:HD22	1:O:111:LEU:N	2.17	0.60
1:O:273:VAL:HG21	1:O:294:ALA:HB1	1.83	0.60
1:O:483:MET:HE3	1:O:485:GLU:HA	1.84	0.60
1:P:70:VAL:HG12	1:P:76:LYS:HD2	1.84	0.60
1:P:194:LYS:HZ1	1:P:316:LYS:HD2	1.65	0.60
1:P:200:GLY:HA2	1:P:349:SER:HB2	1.83	0.60
1:A:13:LYS:O	1:A:518:ALA:HA	2.01	0.60
1:A:85:GLN:NE2	1:A:497:GLN:HB3	2.17	0.60
1:B:110:LEU:HD22	1:B:111:LEU:N	2.17	0.60
1:C:170:LEU:CD2	1:C:171:ALA:H	2.14	0.60
1:D:65:LEU:HD12	1:D:79:ILE:HG23	1.84	0.60
1:E:85:GLN:NE2	1:E:497:GLN:HB3	2.17	0.60
1:E:214:VAL:H	1:E:366:THR:HG21	1.65	0.60
1:E:495:LYS:O	1:E:499:ILE:HD13	2.02	0.60
1:F:85:GLN:NE2	1:F:497:GLN:HB3	2.17	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:110:LEU:HD22	1:F:111:LEU:N	2.17	0.60
1:G:70:VAL:HG12	1:G:76:LYS:HD2	1.84	0.60
1:G:134:LEU:HD12	1:G:411:LEU:HD23	1.84	0.60
1:G:409:VAL:HG13	1:G:410:GLU:HG2	1.84	0.60
1:H:63:THR:HA	1:H:66:ARG:HD3	1.82	0.60
1:H:110:LEU:HD22	1:H:111:LEU:N	2.17	0.60
1:I:110:LEU:HD22	1:I:111:LEU:N	2.17	0.60
1:J:68:MET:H	1:K:520:LYS:HE3	1.66	0.60
1:J:70:VAL:HG12	1:J:76:LYS:HD2	1.84	0.60
1:J:161:LYS:C	1:J:163:ALA:H	2.09	0.60
1:J:409:VAL:HG13	1:J:410:GLU:HG2	1.84	0.60
1:K:110:LEU:HD22	1:K:111:LEU:N	2.17	0.60
1:L:85:GLN:NE2	1:L:497:GLN:HB3	2.17	0.60
1:L:495:LYS:O	1:L:499:ILE:HD13	2.02	0.60
1:M:189:ASP:O	1:M:192:LEU:HG	2.01	0.60
1:M:242:LYS:HE2	1:M:244:THR:HB	1.83	0.60
1:O:347:LYS:HB3	1:P:187:LYS:CD	2.31	0.60
1:O:442:ARG:HH11	1:O:453:ILE:H	1.50	0.60
1:P:189:ASP:O	1:P:192:LEU:HG	2.01	0.60
1:P:500:GLN:NE2	1:P:500:GLN:HA	2.15	0.60
1:A:63:THR:HA	1:A:66:ARG:HD3	1.82	0.60
1:A:233:ALA:HB2	1:A:281:ALA:CB	2.31	0.60
1:A:409:VAL:HG13	1:A:410:GLU:HG2	1.84	0.60
1:A:495:LYS:O	1:A:499:ILE:HD13	2.02	0.60
1:B:409:VAL:HG13	1:B:410:GLU:HG2	1.84	0.60
1:C:495:LYS:O	1:C:499:ILE:HD13	2.02	0.60
1:D:189:ASP:O	1:D:192:LEU:HG	2.01	0.60
1:F:65:LEU:HD12	1:F:79:ILE:HG23	1.84	0.60
1:F:500:GLN:HA	1:F:500:GLN:NE2	2.15	0.60
1:G:161:LYS:C	1:G:163:ALA:H	2.09	0.60
1:G:233:ALA:HB2	1:G:281:ALA:CB	2.31	0.60
1:H:70:VAL:HG12	1:H:76:LYS:HD2	1.84	0.60
1:H:450:LEU:HD13	1:L:450:LEU:HD13	1.82	0.60
1:I:63:THR:HA	1:I:66:ARG:HD3	1.82	0.60
1:K:65:LEU:HD12	1:K:79:ILE:HG23	1.84	0.60
1:M:134:LEU:HD12	1:M:411:LEU:HD23	1.83	0.60
1:M:500:GLN:NE2	1:M:500:GLN:HA	2.15	0.60
1:N:42:LYS:NZ	1:N:446:GLU:HG3	2.16	0.60
1:N:170:LEU:CD2	1:N:171:ALA:H	2.14	0.60
1:N:495:LYS:O	1:N:499:ILE:HD13	2.02	0.60
1:O:49:VAL:CG2	1:P:517:ALA:HB3	2.28	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:170:LEU:CD2	1:O:171:ALA:H	2.14	0.60
1:O:409:VAL:HG13	1:O:410:GLU:HG2	1.84	0.60
1:P:70:VAL:HG23	1:P:71:GLU:N	2.15	0.60
1:P:85:GLN:NE2	1:P:497:GLN:HB3	2.17	0.60
1:P:495:LYS:O	1:P:499:ILE:HD13	2.02	0.60
1:A:156:THR:HG21	1:A:170:LEU:CA	2.30	0.59
1:A:200:GLY:HA2	1:A:349:SER:HB2	1.83	0.59
1:A:377:ILE:HD12	1:A:380:VAL:CG2	2.30	0.59
1:A:500:GLN:HA	1:A:500:GLN:NE2	2.15	0.59
1:A:517:ALA:HB3	1:B:49:VAL:CG2	2.28	0.59
1:B:13:LYS:O	1:B:518:ALA:HA	2.01	0.59
1:C:13:LYS:C	1:C:14:ARG:HD3	2.26	0.59
1:C:110:LEU:HD22	1:C:111:LEU:N	2.17	0.59
1:C:273:VAL:HG21	1:C:294:ALA:HB1	1.83	0.59
1:D:13:LYS:O	1:D:518:ALA:HA	2.01	0.59
1:D:134:LEU:HD12	1:D:411:LEU:HD23	1.83	0.59
1:D:242:LYS:HE2	1:D:244:THR:HB	1.83	0.59
1:D:500:GLN:HA	1:D:500:GLN:NE2	2.15	0.59
1:E:70:VAL:HG23	1:E:71:GLU:N	2.15	0.59
1:E:198:LYS:HD3	1:E:377:ILE:HG21	1.83	0.59
1:G:517:ALA:HB3	1:H:49:VAL:CG2	2.28	0.59
1:I:70:VAL:HG12	1:I:76:LYS:HD2	1.84	0.59
1:I:409:VAL:HG13	1:I:410:GLU:HG2	1.84	0.59
1:I:495:LYS:O	1:I:499:ILE:HD13	2.02	0.59
1:J:233:ALA:HB2	1:J:281:ALA:CB	2.31	0.59
1:J:277:LYS:CG	1:J:301:GLU:HB3	2.20	0.59
1:K:42:LYS:NZ	1:K:446:GLU:HG3	2.16	0.59
1:K:85:GLN:NE2	1:K:497:GLN:HB3	2.17	0.59
1:K:480:VAL:HG12	1:K:481:GLU:N	2.13	0.59
1:M:13:LYS:O	1:M:518:ALA:HA	2.01	0.59
1:N:110:LEU:HD22	1:N:111:LEU:N	2.17	0.59
1:N:273:VAL:HG21	1:N:294:ALA:HB1	1.83	0.59
1:P:13:LYS:O	1:P:518:ALA:HA	2.01	0.59
1:P:377:ILE:HD12	1:P:380:VAL:CG2	2.30	0.59
1:P:409:VAL:HG13	1:P:410:GLU:HG2	1.84	0.59
1:A:70:VAL:HG12	1:A:76:LYS:HD2	1.84	0.59
1:A:187:LYS:CE	1:B:347:LYS:HZ3	2.14	0.59
1:B:483:MET:HE3	1:B:485:GLU:HA	1.84	0.59
1:C:65:LEU:HD12	1:C:79:ILE:HG23	1.84	0.59
1:C:103:LEU:HG	1:C:433:PHE:HA	1.83	0.59
1:E:189:ASP:O	1:E:192:LEU:HG	2.01	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:200:GLY:HA2	1:G:349:SER:HB2	1.83	0.59
1:J:110:LEU:HD22	1:J:111:LEU:N	2.17	0.59
1:J:117:PRO:O	1:J:120:VAL:HG12	2.01	0.59
1:J:200:GLY:HA2	1:J:349:SER:HB2	1.83	0.59
1:K:231:LYS:HA	1:K:341:GLY:HA2	1.84	0.59
1:L:189:ASP:O	1:L:192:LEU:HG	2.01	0.59
1:L:286:CYS:SG	1:L:289:GLY:CA	2.91	0.59
1:M:103:LEU:HG	1:M:433:PHE:HA	1.83	0.59
1:M:169:LYS:HZ2	1:M:173:ILE:HD11	1.67	0.59
1:N:13:LYS:C	1:N:14:ARG:HD3	2.26	0.59
1:N:103:LEU:HG	1:N:433:PHE:HA	1.83	0.59
1:A:110:LEU:HD22	1:A:111:LEU:N	2.17	0.59
1:B:161:LYS:C	1:B:163:ALA:H	2.09	0.59
1:C:156:THR:HG21	1:C:170:LEU:CA	2.30	0.59
1:D:103:LEU:HG	1:D:433:PHE:HA	1.83	0.59
1:E:286:CYS:SG	1:E:289:GLY:CA	2.91	0.59
1:E:409:VAL:HG13	1:E:410:GLU:HG2	1.84	0.59
1:F:42:LYS:NZ	1:F:446:GLU:HG3	2.16	0.59
1:F:231:LYS:HA	1:F:341:GLY:HA2	1.84	0.59
1:F:480:VAL:HG12	1:F:481:GLU:N	2.13	0.59
1:G:110:LEU:HD22	1:G:111:LEU:N	2.17	0.59
1:G:495:LYS:O	1:G:499:ILE:HD13	2.02	0.59
1:H:198:LYS:HD3	1:H:377:ILE:HG21	1.84	0.59
1:H:409:VAL:HG13	1:H:410:GLU:HG2	1.84	0.59
1:H:495:LYS:O	1:H:499:ILE:HD13	2.02	0.59
1:L:198:LYS:HD3	1:L:377:ILE:HG21	1.83	0.59
1:N:409:VAL:HG13	1:N:410:GLU:HG2	1.84	0.59
1:O:13:LYS:O	1:O:518:ALA:HA	2.01	0.59
1:P:99:VAL:HB	1:P:440:ILE:HG21	1.84	0.59
1:C:171:ALA:HA	1:C:174:ILE:CG2	2.33	0.59
1:C:409:VAL:HG13	1:C:410:GLU:HG2	1.84	0.59
1:D:110:LEU:HD22	1:D:111:LEU:N	2.17	0.59
1:D:171:ALA:HA	1:D:174:ILE:CG2	2.33	0.59
1:E:154:ALA:HB1	1:E:488:VAL:HG13	1.83	0.59
1:E:512:ILE:HD11	1:F:47:MET:HB2	1.85	0.59
1:F:273:VAL:HG21	1:F:294:ALA:HB1	1.83	0.59
1:G:117:PRO:O	1:G:120:VAL:HG12	2.01	0.59
1:I:198:LYS:HD3	1:I:377:ILE:HG21	1.84	0.59
1:J:495:LYS:O	1:J:499:ILE:HD13	2.02	0.59
1:K:47:MET:HB2	1:L:512:ILE:HD11	1.85	0.59
1:K:117:PRO:O	1:K:120:VAL:HG12	2.01	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:273:VAL:HG21	1:K:294:ALA:HB1	1.83	0.59
1:K:495:LYS:O	1:K:499:ILE:HD13	2.02	0.59
1:L:70:VAL:HG23	1:L:71:GLU:N	2.15	0.59
1:L:409:VAL:HG13	1:L:410:GLU:HG2	1.84	0.59
1:M:171:ALA:HA	1:M:174:ILE:CG2	2.33	0.59
1:N:65:LEU:HD12	1:N:79:ILE:HG23	1.84	0.59
1:N:156:THR:HG21	1:N:170:LEU:CA	2.30	0.59
1:N:171:ALA:HA	1:N:174:ILE:CG2	2.33	0.59
1:O:347:LYS:HZ3	1:P:187:LYS:CE	2.14	0.59
1:A:48:LEU:HD21	1:A:55:VAL:H	1.68	0.59
1:A:161:LYS:C	1:A:163:ALA:H	2.09	0.59
1:B:286:CYS:SG	1:B:289:GLY:CA	2.91	0.59
1:C:189:ASP:O	1:C:192:LEU:HG	2.01	0.59
1:C:230:ALA:HB2	1:C:303:ILE:HD13	1.83	0.59
1:C:320:ALA:O	1:C:321:THR:HG22	2.03	0.59
1:D:156:THR:HG21	1:D:170:LEU:CA	2.30	0.59
1:E:13:LYS:O	1:E:518:ALA:HA	2.01	0.59
1:F:117:PRO:O	1:F:120:VAL:HG12	2.01	0.59
1:F:495:LYS:O	1:F:499:ILE:HD13	2.02	0.59
1:G:70:VAL:HG23	1:G:71:GLU:N	2.15	0.59
1:L:154:ALA:HB1	1:L:488:VAL:HG13	1.83	0.59
1:M:110:LEU:HD22	1:M:111:LEU:N	2.17	0.59
1:M:156:THR:HG21	1:M:170:LEU:CA	2.30	0.59
1:N:286:CYS:SG	1:N:289:GLY:CA	2.91	0.59
1:N:320:ALA:O	1:N:321:THR:HG22	2.03	0.59
1:P:110:LEU:HD22	1:P:111:LEU:N	2.17	0.59
1:P:286:CYS:SG	1:P:289:GLY:CA	2.91	0.59
1:B:171:ALA:HA	1:B:174:ILE:CG2	2.33	0.59
1:C:7:VAL:HG22	1:C:9:PRO:HG3	1.85	0.59
1:C:161:LYS:C	1:C:163:ALA:H	2.09	0.59
1:C:286:CYS:SG	1:C:289:GLY:CA	2.91	0.59
1:D:179:SER:OG	1:D:363:LYS:HE3	2.03	0.59
1:E:230:ALA:HB2	1:E:303:ILE:HD13	1.83	0.59
1:F:200:GLY:HA2	1:F:349:SER:HB2	1.83	0.59
1:H:442:ARG:HH11	1:H:453:ILE:H	1.50	0.59
1:I:377:ILE:HD12	1:I:380:VAL:CG2	2.30	0.59
1:I:442:ARG:HH11	1:I:453:ILE:H	1.50	0.59
1:K:258:LEU:HD22	1:L:251:ARG:NH1	2.17	0.59
1:L:179:SER:OG	1:L:363:LYS:HE3	2.03	0.59
1:L:230:ALA:HB2	1:L:303:ILE:HD13	1.83	0.59
1:M:179:SER:OG	1:M:363:LYS:HE3	2.03	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:409:VAL:HG13	1:M:410:GLU:HG2	1.84	0.59
1:N:161:LYS:C	1:N:163:ALA:H	2.09	0.59
1:N:230:ALA:HB2	1:N:303:ILE:HD13	1.83	0.59
1:O:155:MET:SD	1:O:387:ALA:CB	2.91	0.59
1:O:161:LYS:C	1:O:163:ALA:H	2.09	0.59
1:O:286:CYS:SG	1:O:289:GLY:CA	2.91	0.59
1:P:48:LEU:HD21	1:P:55:VAL:H	1.68	0.59
1:P:65:LEU:HD12	1:P:79:ILE:HG23	1.84	0.59
1:A:286:CYS:SG	1:A:289:GLY:CA	2.91	0.59
1:B:155:MET:SD	1:B:387:ALA:CB	2.91	0.59
1:B:242:LYS:O	1:B:243:GLU:HG2	2.03	0.59
1:C:155:MET:SD	1:C:387:ALA:CB	2.91	0.59
1:D:173:ILE:HG13	1:D:384:VAL:HG21	1.85	0.59
1:D:242:LYS:O	1:D:243:GLU:HG2	2.03	0.59
1:D:286:CYS:SG	1:D:289:GLY:CA	2.91	0.59
1:D:409:VAL:HG13	1:D:410:GLU:HG2	1.84	0.59
1:E:65:LEU:HD12	1:E:79:ILE:HG23	1.84	0.59
1:E:110:LEU:HD22	1:E:111:LEU:N	2.17	0.59
1:E:179:SER:OG	1:E:363:LYS:HE3	2.03	0.59
1:E:187:LYS:CD	1:F:347:LYS:HB3	2.31	0.59
1:E:251:ARG:NH1	1:F:258:LEU:HD22	2.18	0.59
1:E:377:ILE:HD12	1:E:380:VAL:CG2	2.30	0.59
1:E:442:ARG:HH11	1:E:453:ILE:H	1.50	0.59
1:F:242:LYS:O	1:F:243:GLU:HG2	2.03	0.59
1:G:410:GLU:CB	1:G:468:ASN:HD21	2.14	0.59
1:H:226:LYS:HA	1:H:346:ARG:NH1	2.18	0.59
1:I:134:LEU:HD12	1:I:411:LEU:HD23	1.83	0.59
1:I:226:LYS:HA	1:I:346:ARG:NH1	2.18	0.59
1:J:410:GLU:CB	1:J:468:ASN:HD21	2.14	0.59
1:L:13:LYS:O	1:L:518:ALA:HA	2.01	0.59
1:M:155:MET:SD	1:M:387:ALA:CB	2.91	0.59
1:M:173:ILE:HG13	1:M:384:VAL:HG21	1.85	0.59
1:M:242:LYS:O	1:M:243:GLU:HG2	2.03	0.59
1:N:7:VAL:HG22	1:N:9:PRO:HG3	1.85	0.59
1:N:155:MET:SD	1:N:387:ALA:CB	2.91	0.59
1:N:189:ASP:O	1:N:192:LEU:HG	2.01	0.59
1:N:442:ARG:HH11	1:N:453:ILE:H	1.50	0.59
1:O:171:ALA:HA	1:O:174:ILE:CG2	2.33	0.59
1:P:161:LYS:C	1:P:163:ALA:H	2.09	0.59
1:P:171:ALA:HA	1:P:174:ILE:CG2	2.33	0.59
1:A:7:VAL:HG22	1:A:9:PRO:HG3	1.85	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:65:LEU:HD12	1:A:79:ILE:HG23	1.84	0.59
1:A:179:SER:OG	1:A:363:LYS:HE3	2.03	0.59
1:B:489:VAL:HG13	1:B:492:LEU:HA	1.84	0.59
1:D:155:MET:SD	1:D:387:ALA:CB	2.91	0.59
1:D:195:ILE:HG22	1:D:196:GLU:N	2.18	0.59
1:D:198:LYS:HB3	1:D:372:THR:O	2.03	0.59
1:E:171:ALA:HA	1:E:174:ILE:CG2	2.33	0.59
1:E:226:LYS:HA	1:E:346:ARG:NH1	2.18	0.59
1:E:320:ALA:O	1:E:321:THR:HG22	2.03	0.59
1:F:512:ILE:HD11	1:G:47:MET:HB2	1.85	0.59
1:H:134:LEU:HD12	1:H:411:LEU:HD23	1.83	0.59
1:H:377:ILE:HD12	1:H:380:VAL:CG2	2.30	0.59
1:I:13:LYS:O	1:I:518:ALA:HA	2.01	0.59
1:J:70:VAL:HG23	1:J:71:GLU:N	2.15	0.59
1:K:200:GLY:HA2	1:K:349:SER:HB2	1.83	0.59
1:K:242:LYS:O	1:K:243:GLU:HG2	2.03	0.59
1:K:347:LYS:HB3	1:L:187:LYS:CD	2.31	0.59
1:L:110:LEU:HD22	1:L:111:LEU:N	2.17	0.59
1:L:155:MET:SD	1:L:387:ALA:CB	2.91	0.59
1:L:171:ALA:HA	1:L:174:ILE:CG2	2.33	0.59
1:L:226:LYS:HA	1:L:346:ARG:NH1	2.18	0.59
1:L:320:ALA:O	1:L:321:THR:HG22	2.03	0.59
1:L:377:ILE:HD12	1:L:380:VAL:CG2	2.30	0.59
1:M:195:ILE:HG22	1:M:196:GLU:N	2.18	0.59
1:M:198:LYS:HB3	1:M:372:THR:O	2.03	0.59
1:O:47:MET:HB2	1:P:512:ILE:HD11	1.85	0.59
1:P:7:VAL:HG22	1:P:9:PRO:HG3	1.85	0.59
1:A:171:ALA:HA	1:A:174:ILE:CG2	2.33	0.59
1:B:385:ASP:O	1:B:388:VAL:HG12	2.03	0.59
1:C:442:ARG:HH11	1:C:453:ILE:H	1.50	0.59
1:D:273:VAL:HG21	1:D:294:ALA:HB1	1.83	0.59
1:D:403:GLY:CA	1:D:492:LEU:HD13	2.33	0.59
1:E:155:MET:SD	1:E:387:ALA:CB	2.91	0.59
1:E:156:THR:HG21	1:E:170:LEU:CA	2.30	0.59
1:F:286:CYS:SG	1:F:289:GLY:CA	2.91	0.59
1:F:403:GLY:CA	1:F:492:LEU:HD13	2.33	0.59
1:G:198:LYS:HB3	1:G:372:THR:O	2.03	0.59
1:H:13:LYS:O	1:H:518:ALA:HA	2.01	0.59
1:H:75:ALA:O	1:H:79:ILE:HG13	2.03	0.59
1:H:200:GLY:HA2	1:H:349:SER:HB2	1.83	0.59
1:I:75:ALA:O	1:I:79:ILE:HG13	2.03	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:512:ILE:HD11	1:P:47:MET:HB2	1.85	0.59
1:J:47:MET:HB2	1:K:512:ILE:HD11	1.85	0.59
1:J:48:LEU:HD21	1:J:55:VAL:H	1.68	0.59
1:J:198:LYS:HB3	1:J:372:THR:O	2.03	0.59
1:J:286:CYS:SG	1:J:289:GLY:CA	2.91	0.59
1:K:403:GLY:CA	1:K:492:LEU:HD13	2.33	0.59
1:L:65:LEU:HD12	1:L:79:ILE:HG23	1.84	0.59
1:M:273:VAL:HG21	1:M:294:ALA:HB1	1.83	0.59
1:M:286:CYS:SG	1:M:289:GLY:CA	2.91	0.59
1:M:403:GLY:CA	1:M:492:LEU:HD13	2.33	0.59
1:N:226:LYS:HA	1:N:346:ARG:NH1	2.18	0.59
1:O:242:LYS:O	1:O:243:GLU:HG2	2.03	0.59
1:P:179:SER:OG	1:P:363:LYS:HE3	2.03	0.59
1:P:198:LYS:HD3	1:P:377:ILE:HG21	1.83	0.59
1:P:469:LYS:HZ3	1:P:486:ASN:HB3	1.67	0.59
1:B:171:ALA:HA	1:B:174:ILE:HG22	1.85	0.59
1:B:251:ARG:NH1	1:C:258:LEU:HD22	2.18	0.59
1:C:134:LEU:HD12	1:C:411:LEU:HD23	1.84	0.59
1:C:195:ILE:HG22	1:C:196:GLU:N	2.18	0.59
1:C:226:LYS:HA	1:C:346:ARG:NH1	2.18	0.59
1:D:230:ALA:HB2	1:D:303:ILE:HD13	1.83	0.59
1:E:75:ALA:O	1:E:79:ILE:HG13	2.03	0.59
1:G:48:LEU:HD21	1:G:55:VAL:H	1.68	0.59
1:G:173:ILE:HG13	1:G:384:VAL:HG21	1.85	0.59
1:G:231:LYS:HA	1:G:341:GLY:HA2	1.84	0.59
1:G:286:CYS:SG	1:G:289:GLY:CA	2.91	0.59
1:H:25:ILE:O	1:H:29:ARG:HB2	2.03	0.59
1:H:231:LYS:HA	1:H:341:GLY:HA2	1.84	0.59
1:H:286:CYS:SG	1:H:289:GLY:CA	2.91	0.59
1:I:200:GLY:HA2	1:I:349:SER:HB2	1.83	0.59
1:I:231:LYS:HA	1:I:341:GLY:HA2	1.84	0.59
1:I:286:CYS:SG	1:I:289:GLY:CA	2.91	0.59
1:J:231:LYS:HA	1:J:341:GLY:HA2	1.84	0.59
1:L:47:MET:HB2	1:M:512:ILE:HD11	1.85	0.59
1:L:75:ALA:O	1:L:79:ILE:HG13	2.03	0.59
1:L:231:LYS:HA	1:L:341:GLY:HA2	1.84	0.59
1:L:442:ARG:HH11	1:L:453:ILE:H	1.50	0.59
1:L:483:MET:HE3	1:L:485:GLU:HA	1.84	0.59
1:N:48:LEU:HD21	1:N:55:VAL:H	1.68	0.59
1:P:25:ILE:O	1:P:29:ARG:HB2	2.03	0.59
1:P:208:LEU:O	1:P:209:ILE:HG22	2.03	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:25:ILE:O	1:A:29:ARG:HB2	2.03	0.58
1:A:49:VAL:O	1:A:50:ASP:HB3	2.03	0.58
1:A:103:LEU:O	1:A:103:LEU:HD13	2.03	0.58
1:A:155:MET:SD	1:A:387:ALA:CB	2.91	0.58
1:D:48:LEU:HD21	1:D:55:VAL:H	1.68	0.58
1:D:495:LYS:O	1:D:499:ILE:HD13	2.02	0.58
1:D:512:ILE:HD11	1:E:47:MET:HB2	1.85	0.58
1:E:49:VAL:O	1:E:50:ASP:HB3	2.03	0.58
1:E:410:GLU:CB	1:E:468:ASN:HD21	2.14	0.58
1:E:483:MET:HE3	1:E:485:GLU:HA	1.84	0.58
1:I:25:ILE:O	1:I:29:ARG:HB2	2.03	0.58
1:I:179:SER:OG	1:I:363:LYS:HE3	2.03	0.58
1:I:385:ASP:O	1:I:388:VAL:HG12	2.03	0.58
1:J:65:LEU:HD12	1:J:79:ILE:HG23	1.84	0.58
1:J:173:ILE:HG13	1:J:384:VAL:HG21	1.85	0.58
1:K:169:LYS:HZ2	1:K:173:ILE:HD11	1.67	0.58
1:K:286:CYS:SG	1:K:289:GLY:CA	2.91	0.58
1:L:49:VAL:O	1:L:50:ASP:HB3	2.03	0.58
1:M:230:ALA:HB2	1:M:303:ILE:HD13	1.83	0.58
1:N:134:LEU:HD12	1:N:411:LEU:HD23	1.84	0.58
1:N:195:ILE:HG22	1:N:196:GLU:N	2.18	0.58
1:O:134:LEU:HD12	1:O:411:LEU:HD23	1.83	0.58
1:P:483:MET:HE3	1:P:485:GLU:HA	1.84	0.58
1:A:47:MET:HB2	1:H:512:ILE:HD11	1.85	0.58
1:A:75:ALA:O	1:A:79:ILE:HG13	2.03	0.58
1:A:134:LEU:HD12	1:A:411:LEU:HD23	1.83	0.58
1:A:208:LEU:O	1:A:209:ILE:HG22	2.03	0.58
1:A:231:LYS:HA	1:A:341:GLY:HA2	1.84	0.58
1:A:258:LEU:HD22	1:H:251:ARG:NH1	2.18	0.58
1:A:320:ALA:O	1:A:321:THR:HG22	2.03	0.58
1:E:231:LYS:HA	1:E:341:GLY:HA2	1.84	0.58
1:F:48:LEU:HD21	1:F:55:VAL:H	1.68	0.58
1:G:155:MET:SD	1:G:387:ALA:CB	2.91	0.58
1:H:49:VAL:O	1:H:50:ASP:HB3	2.03	0.58
1:H:208:LEU:O	1:H:209:ILE:HG22	2.03	0.58
1:H:242:LYS:O	1:H:243:GLU:HG2	2.03	0.58
1:H:320:ALA:O	1:H:321:THR:HG22	2.03	0.58
1:H:385:ASP:O	1:H:388:VAL:HG12	2.03	0.58
1:J:155:MET:SD	1:J:387:ALA:CB	2.91	0.58
1:K:75:ALA:O	1:K:79:ILE:HG13	2.03	0.58
1:K:179:SER:OG	1:K:363:LYS:HE3	2.03	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:483:MET:HE3	1:K:485:GLU:HA	1.84	0.58
1:L:156:THR:HG21	1:L:170:LEU:CA	2.30	0.58
1:L:410:GLU:CB	1:L:468:ASN:HD21	2.14	0.58
1:M:48:LEU:HD21	1:M:55:VAL:H	1.68	0.58
1:M:171:ALA:HA	1:M:174:ILE:HG22	1.86	0.58
1:M:483:MET:HE3	1:M:485:GLU:HA	1.84	0.58
1:N:75:ALA:O	1:N:79:ILE:HG13	2.03	0.58
1:O:25:ILE:O	1:O:29:ARG:HB2	2.03	0.58
1:O:75:ALA:O	1:O:79:ILE:HG13	2.03	0.58
1:O:171:ALA:HA	1:O:174:ILE:HG22	1.86	0.58
1:O:198:LYS:HD3	1:O:377:ILE:HG21	1.84	0.58
1:P:49:VAL:O	1:P:50:ASP:HB3	2.03	0.58
1:P:155:MET:SD	1:P:387:ALA:CB	2.91	0.58
1:B:75:ALA:O	1:B:79:ILE:HG13	2.03	0.58
1:B:134:LEU:HD12	1:B:411:LEU:HD23	1.83	0.58
1:C:75:ALA:O	1:C:79:ILE:HG13	2.03	0.58
1:D:171:ALA:HA	1:D:174:ILE:HG22	1.86	0.58
1:D:483:MET:HE3	1:D:485:GLU:HA	1.84	0.58
1:E:273:VAL:HG21	1:E:294:ALA:HB1	1.83	0.58
1:F:75:ALA:O	1:F:79:ILE:HG13	2.03	0.58
1:F:230:ALA:HB2	1:F:303:ILE:HD13	1.83	0.58
1:F:483:MET:HE3	1:F:485:GLU:HA	1.84	0.58
1:G:65:LEU:HD12	1:G:79:ILE:HG23	1.84	0.58
1:G:187:LYS:O	1:G:190:LYS:HG2	2.04	0.58
1:G:320:ALA:O	1:G:321:THR:HG22	2.03	0.58
1:G:483:MET:HE3	1:G:485:GLU:HA	1.84	0.58
1:H:179:SER:OG	1:H:363:LYS:HE3	2.03	0.58
1:I:49:VAL:O	1:I:50:ASP:HB3	2.03	0.58
1:I:208:LEU:O	1:I:209:ILE:HG22	2.03	0.58
1:I:242:LYS:O	1:I:243:GLU:HG2	2.03	0.58
1:I:320:ALA:O	1:I:321:THR:HG22	2.03	0.58
1:J:187:LYS:O	1:J:190:LYS:HG2	2.04	0.58
1:K:48:LEU:HD21	1:K:55:VAL:H	1.68	0.58
1:K:173:ILE:HG13	1:K:384:VAL:HG21	1.85	0.58
1:K:250:ILE:HG13	1:L:250:ILE:HG21	1.85	0.58
1:L:48:LEU:HD21	1:L:55:VAL:H	1.68	0.58
1:L:169:LYS:HZ2	1:L:173:ILE:HD11	1.68	0.58
1:M:495:LYS:O	1:M:499:ILE:HD13	2.02	0.58
1:N:198:LYS:HB3	1:N:372:THR:O	2.03	0.58
1:N:258:LEU:HD22	1:O:251:ARG:NH1	2.18	0.58
1:O:385:ASP:O	1:O:388:VAL:HG12	2.03	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:75:ALA:O	1:P:79:ILE:HG13	2.03	0.58
1:P:231:LYS:HA	1:P:341:GLY:HA2	1.84	0.58
1:P:385:ASP:O	1:P:388:VAL:HG12	2.03	0.58
1:A:226:LYS:HA	1:A:346:ARG:NH1	2.18	0.58
1:A:483:MET:HE3	1:A:485:GLU:HA	1.84	0.58
1:B:49:VAL:O	1:B:50:ASP:HB3	2.03	0.58
1:B:226:LYS:HA	1:B:346:ARG:NH1	2.18	0.58
1:B:495:LYS:O	1:B:499:ILE:HD13	2.02	0.58
1:C:48:LEU:HD21	1:C:55:VAL:H	1.68	0.58
1:C:171:ALA:HA	1:C:174:ILE:HG22	1.86	0.58
1:C:198:LYS:HB3	1:C:372:THR:O	2.03	0.58
1:D:61:GLY:HA3	1:D:94:THR:CG2	2.29	0.58
1:D:226:LYS:HA	1:D:346:ARG:NH1	2.18	0.58
1:E:48:LEU:HD21	1:E:55:VAL:H	1.68	0.58
1:E:173:ILE:HG13	1:E:384:VAL:HG21	1.85	0.58
1:F:173:ILE:HG13	1:F:384:VAL:HG21	1.85	0.58
1:F:179:SER:OG	1:F:363:LYS:HE3	2.03	0.58
1:F:512:ILE:HA	1:G:45:ASP:HB2	1.85	0.58
1:G:226:LYS:HA	1:G:346:ARG:NH1	2.18	0.58
1:G:237:CYS:HA	1:G:286:CYS:HB2	1.86	0.58
1:G:512:ILE:HA	1:H:45:ASP:HB2	1.85	0.58
1:H:171:ALA:HA	1:H:174:ILE:CG2	2.33	0.58
1:H:198:LYS:HB3	1:H:372:THR:O	2.03	0.58
1:I:155:MET:SD	1:I:387:ALA:CB	2.91	0.58
1:J:226:LYS:HA	1:J:346:ARG:NH1	2.18	0.58
1:J:320:ALA:O	1:J:321:THR:HG22	2.03	0.58
1:K:171:ALA:HA	1:K:174:ILE:CG2	2.33	0.58
1:K:198:LYS:HB3	1:K:372:THR:O	2.03	0.58
1:L:149:ILE:O	1:L:153:ILE:HG23	2.03	0.58
1:L:273:VAL:HG21	1:L:294:ALA:HB1	1.83	0.58
1:M:75:ALA:O	1:M:79:ILE:HG13	2.03	0.58
1:O:225:LYS:NZ	1:P:188:VAL:HG21	2.19	0.58
1:O:231:LYS:HA	1:O:341:GLY:HA2	1.84	0.58
1:P:134:LEU:HD12	1:P:411:LEU:HD23	1.84	0.58
1:P:237:CYS:HA	1:P:286:CYS:CB	2.32	0.58
1:P:320:ALA:O	1:P:321:THR:HG22	2.03	0.58
1:A:171:ALA:HA	1:A:174:ILE:HG22	1.86	0.58
1:A:188:VAL:HG21	1:B:225:LYS:NZ	2.19	0.58
1:B:25:ILE:O	1:B:29:ARG:HB2	2.03	0.58
1:B:149:ILE:O	1:B:153:ILE:HG23	2.04	0.58
1:D:75:ALA:O	1:D:79:ILE:HG13	2.03	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:187:LYS:O	1:D:190:LYS:HG2	2.04	0.58
1:E:149:ILE:O	1:E:153:ILE:HG23	2.03	0.58
1:E:237:CYS:HA	1:E:286:CYS:HB2	1.86	0.58
1:F:171:ALA:HA	1:F:174:ILE:CG2	2.33	0.58
1:F:188:VAL:HG21	1:G:225:LYS:NZ	2.19	0.58
1:I:42:LYS:NZ	1:I:446:GLU:HG3	2.16	0.58
1:I:45:ASP:HB2	1:J:512:ILE:HA	1.85	0.58
1:I:171:ALA:HA	1:I:174:ILE:CG2	2.33	0.58
1:I:198:LYS:HB3	1:I:372:THR:O	2.03	0.58
1:J:45:ASP:HB2	1:K:512:ILE:HA	1.85	0.58
1:J:171:ALA:HA	1:J:174:ILE:CG2	2.33	0.58
1:J:237:CYS:HA	1:J:286:CYS:HB2	1.86	0.58
1:J:385:ASP:O	1:J:388:VAL:HG12	2.03	0.58
1:J:483:MET:HE3	1:J:485:GLU:HA	1.84	0.58
1:K:230:ALA:HB2	1:K:303:ILE:HD13	1.83	0.58
1:L:237:CYS:HA	1:L:286:CYS:HB2	1.86	0.58
1:M:47:MET:HB2	1:N:512:ILE:HD11	1.85	0.58
1:M:226:LYS:HA	1:M:346:ARG:NH1	2.18	0.58
1:N:171:ALA:HA	1:N:174:ILE:HG22	1.86	0.58
1:O:226:LYS:HA	1:O:346:ARG:NH1	2.18	0.58
1:O:410:GLU:CB	1:O:468:ASN:HD21	2.14	0.58
1:O:495:LYS:O	1:O:499:ILE:HD13	2.02	0.58
1:P:171:ALA:HA	1:P:174:ILE:HG22	1.86	0.58
1:A:198:LYS:HB3	1:A:372:THR:O	2.03	0.58
1:A:237:CYS:HA	1:A:286:CYS:CB	2.32	0.58
1:B:85:GLN:NE2	1:B:497:GLN:HB3	2.17	0.58
1:C:188:VAL:HG21	1:D:225:LYS:NZ	2.19	0.58
1:E:250:ILE:HG21	1:F:250:ILE:HG13	1.86	0.58
1:F:155:MET:SD	1:F:387:ALA:CB	2.91	0.58
1:F:198:LYS:HB3	1:F:372:THR:O	2.03	0.58
1:G:85:GLN:NE2	1:G:497:GLN:HB3	2.17	0.58
1:G:171:ALA:HA	1:G:174:ILE:CG2	2.33	0.58
1:G:385:ASP:O	1:G:388:VAL:HG12	2.03	0.58
1:H:155:MET:SD	1:H:387:ALA:CB	2.91	0.58
1:J:225:LYS:NZ	1:K:188:VAL:HG21	2.19	0.58
1:K:103:LEU:HD13	1:K:103:LEU:O	2.04	0.58
1:K:410:GLU:CB	1:K:468:ASN:HD21	2.14	0.58
1:L:173:ILE:HG13	1:L:384:VAL:HG21	1.85	0.58
1:L:187:LYS:O	1:L:190:LYS:HG2	2.04	0.58
1:L:385:ASP:O	1:L:388:VAL:HG12	2.03	0.58
1:M:187:LYS:O	1:M:190:LYS:HG2	2.04	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:225:LYS:NZ	1:N:188:VAL:HG21	2.19	0.58
1:M:252:ILE:O	1:M:252:ILE:HG22	2.04	0.58
1:M:385:ASP:O	1:M:388:VAL:HG12	2.03	0.58
1:N:483:MET:HE3	1:N:485:GLU:HA	1.84	0.58
1:O:49:VAL:O	1:O:50:ASP:HB3	2.03	0.58
1:O:187:LYS:O	1:O:190:LYS:HG2	2.04	0.58
1:P:149:ILE:O	1:P:153:ILE:HG23	2.03	0.58
1:P:226:LYS:HA	1:P:346:ARG:NH1	2.18	0.58
1:A:149:ILE:O	1:A:153:ILE:HG23	2.03	0.58
1:A:385:ASP:O	1:A:388:VAL:HG12	2.04	0.58
1:B:144:ALA:CB	1:B:400:ILE:HG13	2.24	0.58
1:B:198:LYS:HB3	1:B:372:THR:O	2.03	0.58
1:B:231:LYS:HA	1:B:341:GLY:HA2	1.84	0.58
1:B:403:GLY:CA	1:B:492:LEU:HD13	2.33	0.58
1:C:179:SER:OG	1:C:363:LYS:HE3	2.03	0.58
1:C:242:LYS:O	1:C:243:GLU:HG2	2.03	0.58
1:C:512:ILE:HD11	1:D:47:MET:HB2	1.85	0.58
1:D:252:ILE:HG22	1:D:252:ILE:O	2.04	0.58
1:E:187:LYS:O	1:E:190:LYS:HG2	2.04	0.58
1:E:208:LEU:O	1:E:209:ILE:HG22	2.03	0.58
1:E:213:LEU:HG	1:E:368:LEU:CD1	2.32	0.58
1:E:385:ASP:O	1:E:388:VAL:HG12	2.03	0.58
1:F:103:LEU:O	1:F:103:LEU:HD13	2.04	0.58
1:I:188:VAL:HG21	1:P:225:LYS:NZ	2.19	0.58
1:I:512:ILE:HA	1:P:45:ASP:HB2	1.85	0.58
1:J:62:VAL:O	1:J:66:ARG:HG3	2.04	0.58
1:K:149:ILE:O	1:K:153:ILE:HG23	2.04	0.58
1:K:155:MET:SD	1:K:387:ALA:CB	2.91	0.58
1:K:225:LYS:NZ	1:L:188:VAL:HG21	2.19	0.58
1:K:320:ALA:O	1:K:321:THR:HG22	2.03	0.58
1:K:385:ASP:O	1:K:388:VAL:HG12	2.03	0.58
1:M:246:THR:C	1:M:248:ALA:N	2.62	0.58
1:M:320:ALA:O	1:M:321:THR:HG22	2.03	0.58
1:N:242:LYS:O	1:N:243:GLU:HG2	2.03	0.58
1:O:149:ILE:O	1:O:153:ILE:HG23	2.04	0.58
1:O:173:ILE:HG13	1:O:384:VAL:HG21	1.85	0.58
1:O:198:LYS:HB3	1:O:372:THR:O	2.03	0.58
1:P:103:LEU:O	1:P:103:LEU:HD13	2.04	0.58
1:P:198:LYS:HB3	1:P:372:THR:O	2.03	0.58
1:A:45:ASP:HB2	1:H:512:ILE:HA	1.85	0.58
1:A:225:LYS:NZ	1:H:188:VAL:HG21	2.19	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:142:VAL:HB	1:B:402:SER:OG	2.03	0.58
1:B:144:ALA:HB2	1:B:400:ILE:CG1	2.23	0.58
1:B:165:LYS:C	1:B:167:LYS:H	2.12	0.58
1:B:187:LYS:O	1:B:190:LYS:HG2	2.04	0.58
1:B:188:VAL:HG21	1:C:225:LYS:NZ	2.19	0.58
1:B:320:ALA:O	1:B:321:THR:HG22	2.03	0.58
1:B:410:GLU:CB	1:B:468:ASN:HD21	2.14	0.58
1:B:512:ILE:HD11	1:C:47:MET:HB2	1.85	0.58
1:C:142:VAL:HB	1:C:402:SER:OG	2.04	0.58
1:C:155:MET:CE	1:C:158:ILE:HD11	2.34	0.58
1:C:483:MET:HE3	1:C:485:GLU:HA	1.84	0.58
1:D:246:THR:C	1:D:248:ALA:N	2.62	0.58
1:D:385:ASP:O	1:D:388:VAL:HG12	2.03	0.58
1:E:188:VAL:HG21	1:F:225:LYS:NZ	2.19	0.58
1:F:149:ILE:O	1:F:153:ILE:HG23	2.04	0.58
1:F:242:LYS:H	1:F:242:LYS:CD	2.01	0.58
1:F:320:ALA:O	1:F:321:THR:HG22	2.03	0.58
1:F:410:GLU:CB	1:F:468:ASN:HD21	2.14	0.58
1:G:49:VAL:O	1:G:50:ASP:HB3	2.03	0.58
1:G:62:VAL:O	1:G:66:ARG:HG3	2.04	0.58
1:G:75:ALA:O	1:G:79:ILE:HG13	2.03	0.58
1:I:403:GLY:CA	1:I:492:LEU:HD13	2.33	0.58
1:J:49:VAL:O	1:J:50:ASP:HB3	2.03	0.58
1:J:85:GLN:NE2	1:J:497:GLN:HB3	2.17	0.58
1:J:242:LYS:O	1:J:243:GLU:HG2	2.03	0.58
1:K:242:LYS:H	1:K:242:LYS:CD	2.01	0.58
1:L:171:ALA:HA	1:L:174:ILE:HG22	1.86	0.58
1:L:198:LYS:HB3	1:L:372:THR:O	2.03	0.58
1:L:208:LEU:O	1:L:209:ILE:HG22	2.03	0.58
1:N:62:VAL:O	1:N:66:ARG:HG3	2.04	0.58
1:N:142:VAL:HB	1:N:402:SER:OG	2.04	0.58
1:N:155:MET:CE	1:N:158:ILE:HD11	2.34	0.58
1:N:179:SER:OG	1:N:363:LYS:HE3	2.03	0.58
1:N:225:LYS:NZ	1:O:188:VAL:HG21	2.19	0.58
1:O:85:GLN:NE2	1:O:497:GLN:HB3	2.17	0.58
1:O:179:SER:OG	1:O:363:LYS:HE3	2.03	0.58
1:O:208:LEU:O	1:O:209:ILE:HG22	2.03	0.58
1:P:142:VAL:HB	1:P:402:SER:OG	2.04	0.58
1:P:442:ARG:HH11	1:P:453:ILE:H	1.50	0.58
1:A:142:VAL:HB	1:A:402:SER:OG	2.04	0.58
1:B:173:ILE:HG13	1:B:384:VAL:HG21	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:198:LYS:HD3	1:B:377:ILE:HG21	1.84	0.58
1:B:208:LEU:O	1:B:209:ILE:HG22	2.03	0.58
1:C:49:VAL:O	1:C:50:ASP:HB3	2.03	0.58
1:C:62:VAL:O	1:C:66:ARG:HG3	2.04	0.58
1:C:291:ASP:O	1:C:295:GLN:HB2	2.04	0.58
1:D:62:VAL:O	1:D:66:ARG:HG3	2.04	0.58
1:D:149:ILE:O	1:D:153:ILE:HG23	2.04	0.58
1:D:320:ALA:O	1:D:321:THR:HG22	2.03	0.58
1:E:165:LYS:C	1:E:167:LYS:H	2.12	0.58
1:E:171:ALA:HA	1:E:174:ILE:HG22	1.86	0.58
1:E:198:LYS:HB3	1:E:372:THR:O	2.03	0.58
1:F:25:ILE:O	1:F:29:ARG:HB2	2.03	0.58
1:F:62:VAL:O	1:F:66:ARG:HG3	2.04	0.58
1:F:137:THR:HG23	1:F:400:ILE:HG12	1.86	0.58
1:F:226:LYS:HA	1:F:346:ARG:NH1	2.18	0.58
1:F:385:ASP:O	1:F:388:VAL:HG12	2.03	0.58
1:G:208:LEU:O	1:G:209:ILE:HG22	2.03	0.58
1:G:242:LYS:O	1:G:243:GLU:HG2	2.03	0.58
1:G:442:ARG:HH11	1:G:453:ILE:H	1.50	0.58
1:H:403:GLY:CA	1:H:492:LEU:HD13	2.33	0.58
1:H:410:GLU:CB	1:H:468:ASN:HD21	2.14	0.58
1:I:258:LEU:HD22	1:J:251:ARG:NH1	2.17	0.58
1:I:291:ASP:O	1:I:295:GLN:HB2	2.04	0.58
1:J:149:ILE:O	1:J:153:ILE:HG23	2.03	0.58
1:K:62:VAL:O	1:K:66:ARG:HG3	2.04	0.58
1:K:137:THR:HG23	1:K:400:ILE:HG12	1.86	0.58
1:K:165:LYS:C	1:K:167:LYS:H	2.12	0.58
1:K:252:ILE:O	1:K:252:ILE:HG22	2.04	0.58
1:L:195:ILE:HG22	1:L:196:GLU:N	2.18	0.58
1:L:213:LEU:HG	1:L:368:LEU:CD1	2.32	0.58
1:L:242:LYS:O	1:L:243:GLU:HG2	2.03	0.58
1:M:62:VAL:O	1:M:66:ARG:HG3	2.04	0.58
1:M:149:ILE:O	1:M:153:ILE:HG23	2.04	0.58
1:M:410:GLU:CB	1:M:468:ASN:HD21	2.14	0.58
1:N:49:VAL:O	1:N:50:ASP:HB3	2.03	0.58
1:N:291:ASP:O	1:N:295:GLN:HB2	2.04	0.58
1:O:237:CYS:HA	1:O:286:CYS:CB	2.32	0.58
1:O:291:ASP:O	1:O:295:GLN:HB2	2.04	0.58
1:O:320:ALA:O	1:O:321:THR:HG22	2.03	0.58
1:O:403:GLY:CA	1:O:492:LEU:HD13	2.33	0.58
1:P:165:LYS:C	1:P:167:LYS:H	2.12	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:194:LYS:HZ1	1:A:316:LYS:HD2	1.67	0.58
1:A:326:ILE:H	1:A:326:ILE:CD1	2.16	0.58
1:B:103:LEU:O	1:B:103:LEU:HD13	2.04	0.58
1:B:179:SER:OG	1:B:363:LYS:HE3	2.03	0.58
1:B:291:ASP:O	1:B:295:GLN:HB2	2.04	0.58
1:C:377:ILE:HD12	1:C:380:VAL:CG2	2.30	0.58
1:D:410:GLU:CB	1:D:468:ASN:HD21	2.14	0.58
1:E:62:VAL:O	1:E:66:ARG:HG3	2.04	0.58
1:F:219:VAL:O	1:F:224:PRO:HG3	2.04	0.58
1:G:25:ILE:O	1:G:29:ARG:HB2	2.03	0.58
1:H:219:VAL:O	1:H:224:PRO:HG3	2.04	0.58
1:H:291:ASP:O	1:H:295:GLN:HB2	2.04	0.58
1:I:410:GLU:CB	1:I:468:ASN:HD21	2.14	0.58
1:J:75:ALA:O	1:J:79:ILE:HG13	2.03	0.58
1:K:25:ILE:O	1:K:29:ARG:HB2	2.03	0.58
1:K:219:VAL:O	1:K:224:PRO:HG3	2.04	0.58
1:L:165:LYS:C	1:L:167:LYS:H	2.12	0.58
1:M:208:LEU:O	1:M:209:ILE:HG22	2.03	0.58
1:M:253:THR:HG23	1:N:253:THR:OG1	2.04	0.58
1:N:47:MET:HB2	1:O:512:ILE:HD11	1.85	0.58
1:N:377:ILE:HD12	1:N:380:VAL:CG2	2.30	0.58
1:A:291:ASP:O	1:A:295:GLN:HB2	2.04	0.57
1:B:21:GLN:O	1:B:25:ILE:HG12	2.05	0.57
1:B:213:LEU:HG	1:B:368:LEU:CD1	2.32	0.57
1:D:208:LEU:O	1:D:209:ILE:HG22	2.03	0.57
1:D:219:VAL:O	1:D:224:PRO:HG3	2.04	0.57
1:E:7:VAL:HG22	1:E:9:PRO:HG3	1.85	0.57
1:E:195:ILE:HG22	1:E:196:GLU:N	2.18	0.57
1:F:165:LYS:C	1:F:167:LYS:H	2.12	0.57
1:F:252:ILE:HG22	1:F:252:ILE:O	2.04	0.57
1:G:149:ILE:O	1:G:153:ILE:HG23	2.03	0.57
1:G:179:SER:OG	1:G:363:LYS:HE3	2.03	0.57
1:I:219:VAL:O	1:I:224:PRO:HG3	2.04	0.57
1:I:251:ARG:NH1	1:P:258:LEU:HD22	2.18	0.57
1:J:25:ILE:O	1:J:29:ARG:HB2	2.03	0.57
1:J:208:LEU:O	1:J:209:ILE:HG22	2.03	0.57
1:K:226:LYS:HA	1:K:346:ARG:NH1	2.18	0.57
1:L:7:VAL:HG22	1:L:9:PRO:HG3	1.85	0.57
1:L:62:VAL:O	1:L:66:ARG:HG3	2.04	0.57
1:L:258:LEU:HD22	1:M:251:ARG:NH1	2.18	0.57
1:M:377:ILE:HD12	1:M:380:VAL:CG2	2.30	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:137:THR:HG23	1:P:400:ILE:HG12	1.86	0.57
1:P:187:LYS:O	1:P:190:LYS:HG2	2.04	0.57
1:P:291:ASP:O	1:P:295:GLN:HB2	2.04	0.57
1:A:137:THR:HG23	1:A:400:ILE:HG12	1.86	0.57
1:A:242:LYS:O	1:A:243:GLU:HG2	2.03	0.57
1:A:261:PHE:CE1	1:B:256:ALA:HB2	2.39	0.57
1:A:442:ARG:HH11	1:A:453:ILE:H	1.50	0.57
1:A:469:LYS:HZ3	1:A:486:ASN:HB3	1.68	0.57
1:C:165:LYS:C	1:C:167:LYS:H	2.12	0.57
1:D:377:ILE:HD12	1:D:380:VAL:CG2	2.30	0.57
1:E:103:LEU:O	1:E:103:LEU:HD13	2.04	0.57
1:E:155:MET:CE	1:E:158:ILE:HD11	2.34	0.57
1:E:219:VAL:O	1:E:224:PRO:HG3	2.04	0.57
1:E:242:LYS:O	1:E:243:GLU:HG2	2.03	0.57
1:F:195:ILE:HG22	1:F:196:GLU:N	2.18	0.57
1:H:195:ILE:HG22	1:H:196:GLU:N	2.18	0.57
1:I:171:ALA:HA	1:I:174:ILE:HG22	1.86	0.57
1:I:173:ILE:HG13	1:I:384:VAL:HG21	1.85	0.57
1:I:237:CYS:HA	1:I:286:CYS:CB	2.32	0.57
1:J:442:ARG:HH11	1:J:453:ILE:H	1.50	0.57
1:K:155:MET:CE	1:K:158:ILE:HD11	2.34	0.57
1:L:219:VAL:O	1:L:224:PRO:HG3	2.04	0.57
1:M:219:VAL:O	1:M:224:PRO:HG3	2.04	0.57
1:N:203:ILE:O	1:N:204:ASP:HB2	2.04	0.57
1:O:103:LEU:O	1:O:103:LEU:HD13	2.04	0.57
1:P:326:ILE:H	1:P:326:ILE:CD1	2.16	0.57
1:A:250:ILE:CG2	1:B:250:ILE:HG13	2.35	0.57
1:B:7:VAL:HG22	1:B:9:PRO:HG3	1.85	0.57
1:B:237:CYS:HA	1:B:286:CYS:CB	2.33	0.57
1:B:512:ILE:HA	1:C:45:ASP:HB2	1.85	0.57
1:C:103:LEU:HD13	1:C:103:LEU:O	2.04	0.57
1:C:203:ILE:O	1:C:204:ASP:HB2	2.04	0.57
1:D:49:VAL:O	1:D:50:ASP:HB3	2.03	0.57
1:D:165:LYS:C	1:D:167:LYS:H	2.12	0.57
1:D:251:ARG:NH1	1:E:258:LEU:HD22	2.19	0.57
1:D:291:ASP:O	1:D:295:GLN:HB2	2.04	0.57
1:E:252:ILE:O	1:E:252:ILE:HG22	2.04	0.57
1:E:512:ILE:HA	1:F:45:ASP:HB2	1.85	0.57
1:F:155:MET:CE	1:F:158:ILE:HD11	2.34	0.57
1:G:7:VAL:HG22	1:G:9:PRO:HG3	1.85	0.57
1:H:171:ALA:HA	1:H:174:ILE:HG22	1.85	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:225:LYS:NZ	1:J:188:VAL:HG21	2.19	0.57
1:J:7:VAL:HG22	1:J:9:PRO:HG3	1.85	0.57
1:J:179:SER:OG	1:J:363:LYS:HE3	2.03	0.57
1:K:195:ILE:HG22	1:K:196:GLU:N	2.18	0.57
1:L:103:LEU:O	1:L:103:LEU:HD13	2.04	0.57
1:L:155:MET:CE	1:L:158:ILE:HD11	2.34	0.57
1:M:103:LEU:O	1:M:103:LEU:HD13	2.04	0.57
1:M:203:ILE:O	1:M:204:ASP:HB2	2.04	0.57
1:N:103:LEU:O	1:N:103:LEU:HD13	2.04	0.57
1:O:7:VAL:HG22	1:O:9:PRO:HG3	1.85	0.57
1:O:21:GLN:O	1:O:25:ILE:HG12	2.05	0.57
1:O:213:LEU:HG	1:O:368:LEU:CD1	2.32	0.57
1:O:256:ALA:HB2	1:P:261:PHE:CE1	2.39	0.57
1:A:195:ILE:HG22	1:A:196:GLU:N	2.18	0.57
1:A:213:LEU:HG	1:A:368:LEU:CD1	2.32	0.57
1:A:252:ILE:HG22	1:A:252:ILE:O	2.05	0.57
1:D:103:LEU:O	1:D:103:LEU:HD13	2.04	0.57
1:D:203:ILE:O	1:D:204:ASP:HB2	2.04	0.57
1:E:148:GLU:O	1:E:152:LYS:HG3	2.05	0.57
1:F:144:ALA:CB	1:F:400:ILE:HG13	2.21	0.57
1:G:21:GLN:O	1:G:25:ILE:HG12	2.05	0.57
1:G:188:VAL:HG21	1:H:225:LYS:NZ	2.19	0.57
1:G:261:PHE:CE1	1:H:256:ALA:HB2	2.39	0.57
1:G:319:LYS:HA	1:G:364:ALA:HB1	1.87	0.57
1:H:48:LEU:HD21	1:H:55:VAL:H	1.68	0.57
1:H:173:ILE:HG13	1:H:384:VAL:HG21	1.85	0.57
1:H:237:CYS:HA	1:H:286:CYS:CB	2.32	0.57
1:H:252:ILE:O	1:H:252:ILE:HG22	2.04	0.57
1:I:47:MET:HB2	1:J:512:ILE:HD11	1.85	0.57
1:I:62:VAL:O	1:I:66:ARG:HG3	2.04	0.57
1:I:195:ILE:HG22	1:I:196:GLU:N	2.18	0.57
1:I:252:ILE:HG22	1:I:252:ILE:O	2.04	0.57
1:I:253:THR:HG23	1:J:253:THR:OG1	2.04	0.57
1:J:21:GLN:O	1:J:25:ILE:HG12	2.05	0.57
1:J:319:LYS:HA	1:J:364:ALA:HB1	1.87	0.57
1:K:7:VAL:HG22	1:K:9:PRO:HG3	1.85	0.57
1:K:45:ASP:HB2	1:L:512:ILE:HA	1.85	0.57
1:L:252:ILE:HG22	1:L:252:ILE:O	2.05	0.57
1:L:319:LYS:HA	1:L:364:ALA:HB1	1.87	0.57
1:M:165:LYS:C	1:M:167:LYS:H	2.12	0.57
1:M:291:ASP:O	1:M:295:GLN:HB2	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:25:ILE:O	1:N:29:ARG:HB2	2.03	0.57
1:N:165:LYS:C	1:N:167:LYS:H	2.12	0.57
1:O:62:VAL:O	1:O:66:ARG:HG3	2.04	0.57
1:O:258:LEU:HD22	1:P:251:ARG:NH1	2.17	0.57
1:A:21:GLN:O	1:A:25:ILE:HG12	2.05	0.57
1:A:237:CYS:HA	1:A:286:CYS:HB2	1.86	0.57
1:A:512:ILE:HA	1:B:45:ASP:HB2	1.85	0.57
1:B:62:VAL:O	1:B:66:ARG:HG3	2.04	0.57
1:C:25:ILE:O	1:C:29:ARG:HB2	2.03	0.57
1:C:253:THR:OG1	1:D:253:THR:HG23	2.05	0.57
1:C:261:PHE:CE1	1:D:256:ALA:HB2	2.39	0.57
1:E:319:LYS:HA	1:E:364:ALA:HB1	1.87	0.57
1:F:7:VAL:HG22	1:F:9:PRO:HG3	1.85	0.57
1:F:187:LYS:O	1:F:190:LYS:HG2	2.04	0.57
1:F:203:ILE:O	1:F:204:ASP:HB2	2.04	0.57
1:G:165:LYS:C	1:G:167:LYS:H	2.12	0.57
1:G:253:THR:OG1	1:H:253:THR:HG23	2.04	0.57
1:H:21:GLN:O	1:H:25:ILE:HG12	2.05	0.57
1:I:137:THR:HG23	1:I:400:ILE:HG12	1.86	0.57
1:I:256:ALA:HB2	1:J:261:PHE:CE1	2.39	0.57
1:J:171:ALA:HA	1:J:174:ILE:HG22	1.86	0.57
1:J:291:ASP:O	1:J:295:GLN:HB2	2.04	0.57
1:K:171:ALA:HA	1:K:174:ILE:HG22	1.86	0.57
1:L:25:ILE:O	1:L:29:ARG:HB2	2.03	0.57
1:L:148:GLU:O	1:L:152:LYS:HG3	2.05	0.57
1:M:49:VAL:O	1:M:50:ASP:HB3	2.03	0.57
1:N:149:ILE:O	1:N:153:ILE:HG23	2.03	0.57
1:N:319:LYS:HA	1:N:364:ALA:HB1	1.87	0.57
1:P:21:GLN:O	1:P:25:ILE:HG12	2.05	0.57
1:P:195:ILE:HG22	1:P:196:GLU:N	2.18	0.57
1:P:252:ILE:O	1:P:252:ILE:HG22	2.05	0.57
1:A:173:ILE:HG13	1:A:384:VAL:HG21	1.85	0.57
1:A:187:LYS:O	1:A:190:LYS:HG2	2.04	0.57
1:B:156:THR:HG21	1:B:170:LEU:CA	2.30	0.57
1:C:219:VAL:O	1:C:224:PRO:HG3	2.04	0.57
1:C:319:LYS:HA	1:C:364:ALA:HB1	1.87	0.57
1:D:188:VAL:HG21	1:E:225:LYS:NZ	2.19	0.57
1:E:25:ILE:O	1:E:29:ARG:HB2	2.03	0.57
1:E:403:GLY:CA	1:E:492:LEU:HD13	2.33	0.57
1:F:171:ALA:HA	1:F:174:ILE:HG22	1.86	0.57
1:G:155:MET:CE	1:G:158:ILE:HD11	2.34	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:251:ARG:NH1	1:H:258:LEU:HD22	2.18	0.57
1:G:291:ASP:O	1:G:295:GLN:HB2	2.04	0.57
1:G:512:ILE:HD11	1:H:47:MET:HB2	1.85	0.57
1:H:62:VAL:O	1:H:66:ARG:HG3	2.04	0.57
1:H:137:THR:HG23	1:H:400:ILE:HG12	1.86	0.57
1:I:21:GLN:O	1:I:25:ILE:HG12	2.05	0.57
1:I:237:CYS:HA	1:I:286:CYS:HB2	1.86	0.57
1:J:155:MET:CE	1:J:158:ILE:HD11	2.34	0.57
1:K:203:ILE:O	1:K:204:ASP:HB2	2.04	0.57
1:N:45:ASP:HB2	1:O:512:ILE:HA	1.85	0.57
1:N:187:LYS:O	1:N:190:LYS:HG2	2.04	0.57
1:O:48:LEU:HD21	1:O:55:VAL:H	1.68	0.57
1:O:194:LYS:HZ1	1:O:316:LYS:HD2	1.68	0.57
1:P:173:ILE:HG13	1:P:384:VAL:HG21	1.85	0.57
1:P:237:CYS:HA	1:P:286:CYS:HB2	1.86	0.57
1:A:155:MET:SD	1:A:387:ALA:HA	2.45	0.57
1:A:256:ALA:HB2	1:H:261:PHE:CE1	2.40	0.57
1:A:403:GLY:CA	1:A:492:LEU:HD13	2.33	0.57
1:B:148:GLU:O	1:B:152:LYS:HG3	2.04	0.57
1:B:195:ILE:HG22	1:B:196:GLU:N	2.18	0.57
1:C:149:ILE:O	1:C:153:ILE:HG23	2.03	0.57
1:C:237:CYS:HA	1:C:286:CYS:HB2	1.86	0.57
1:C:385:ASP:O	1:C:388:VAL:HG12	2.03	0.57
1:C:403:GLY:CA	1:C:492:LEU:HD13	2.33	0.57
1:D:7:VAL:HG22	1:D:9:PRO:HG3	1.85	0.57
1:D:25:ILE:O	1:D:29:ARG:HB2	2.03	0.57
1:D:123:GLY:CA	1:D:430:VAL:HG22	2.35	0.57
1:D:326:ILE:H	1:D:326:ILE:CD1	2.16	0.57
1:G:171:ALA:HA	1:G:174:ILE:HG22	1.86	0.57
1:G:250:ILE:HG21	1:H:250:ILE:HG13	1.86	0.57
1:G:250:ILE:CG2	1:H:250:ILE:HG13	2.35	0.57
1:I:48:LEU:HD21	1:I:55:VAL:H	1.68	0.57
1:I:155:MET:CE	1:I:158:ILE:HD11	2.34	0.57
1:I:250:ILE:HG13	1:J:250:ILE:HG21	1.85	0.57
1:J:142:VAL:HB	1:J:402:SER:OG	2.04	0.57
1:J:165:LYS:C	1:J:167:LYS:H	2.12	0.57
1:K:187:LYS:O	1:K:190:LYS:HG2	2.04	0.57
1:K:253:THR:HG23	1:L:253:THR:OG1	2.04	0.57
1:L:225:LYS:NZ	1:M:188:VAL:HG21	2.19	0.57
1:M:25:ILE:O	1:M:29:ARG:HB2	2.03	0.57
1:M:70:VAL:HG23	1:M:71:GLU:N	2.15	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:123:GLY:CA	1:M:430:VAL:HG22	2.35	0.57
1:M:256:ALA:HB2	1:N:261:PHE:CE1	2.39	0.57
1:N:219:VAL:O	1:N:224:PRO:HG3	2.04	0.57
1:N:237:CYS:HA	1:N:286:CYS:HB2	1.86	0.57
1:O:45:ASP:HB2	1:P:512:ILE:HA	1.85	0.57
1:O:155:MET:SD	1:O:387:ALA:HA	2.45	0.57
1:O:250:ILE:HG13	1:P:250:ILE:CG2	2.35	0.57
1:O:250:ILE:HG13	1:P:250:ILE:HG21	1.85	0.57
1:O:252:ILE:O	1:O:252:ILE:HG22	2.04	0.57
1:P:242:LYS:O	1:P:243:GLU:HG2	2.03	0.57
1:A:319:LYS:HA	1:A:364:ALA:HB1	1.86	0.57
1:B:219:VAL:O	1:B:224:PRO:HG3	2.04	0.57
1:B:252:ILE:O	1:B:252:ILE:HG22	2.04	0.57
1:B:261:PHE:CE1	1:C:256:ALA:HB2	2.40	0.57
1:C:123:GLY:CA	1:C:430:VAL:HG22	2.35	0.57
1:C:148:GLU:O	1:C:152:LYS:HG3	2.05	0.57
1:C:173:ILE:HG13	1:C:384:VAL:HG21	1.85	0.57
1:C:187:LYS:O	1:C:190:LYS:HG2	2.04	0.57
1:D:137:THR:HG23	1:D:400:ILE:HG12	1.86	0.57
1:D:319:LYS:HA	1:D:364:ALA:HB1	1.86	0.57
1:E:123:GLY:CA	1:E:430:VAL:HG22	2.35	0.57
1:E:170:LEU:CG	1:E:171:ALA:N	2.68	0.57
1:E:250:ILE:HG22	1:F:251:ARG:H	1.69	0.57
1:E:261:PHE:CE1	1:F:256:ALA:HB2	2.39	0.57
1:F:49:VAL:O	1:F:50:ASP:HB3	2.03	0.57
1:F:170:LEU:HG	1:F:171:ALA:N	2.20	0.57
1:G:137:THR:HG23	1:G:400:ILE:HG12	1.86	0.57
1:G:252:ILE:O	1:G:252:ILE:HG22	2.05	0.57
1:H:103:LEU:HD13	1:H:103:LEU:O	2.04	0.57
1:H:155:MET:CE	1:H:158:ILE:HD11	2.34	0.57
1:H:237:CYS:HA	1:H:286:CYS:HB2	1.86	0.57
1:K:49:VAL:O	1:K:50:ASP:HB3	2.03	0.57
1:K:170:LEU:HG	1:K:171:ALA:N	2.20	0.57
1:K:237:CYS:HA	1:K:286:CYS:CB	2.32	0.57
1:K:237:CYS:HA	1:K:286:CYS:HB2	1.86	0.57
1:K:256:ALA:HB2	1:L:261:PHE:CE1	2.39	0.57
1:L:123:GLY:CA	1:L:430:VAL:HG22	2.35	0.57
1:L:403:GLY:CA	1:L:492:LEU:HD13	2.33	0.57
1:M:326:ILE:H	1:M:326:ILE:CD1	2.16	0.57
1:N:123:GLY:CA	1:N:430:VAL:HG22	2.35	0.57
1:O:137:THR:HG23	1:O:400:ILE:HG12	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:148:GLU:O	1:O:152:LYS:HG3	2.05	0.57
1:O:165:LYS:C	1:O:167:LYS:H	2.12	0.57
1:O:219:VAL:O	1:O:224:PRO:HG3	2.04	0.57
1:P:119:ILE:HD13	1:P:425:ARG:HB2	1.87	0.57
1:P:213:LEU:HG	1:P:368:LEU:CD1	2.32	0.57
1:A:119:ILE:HD13	1:A:425:ARG:HB2	1.87	0.57
1:A:155:MET:CE	1:A:158:ILE:HD11	2.34	0.57
1:A:165:LYS:C	1:A:167:LYS:H	2.12	0.57
1:B:319:LYS:HA	1:B:364:ALA:HB1	1.87	0.57
1:B:509:LEU:HD23	1:B:510:LEU:HB2	1.87	0.57
1:E:253:THR:OG1	1:F:253:THR:HG23	2.04	0.57
1:F:237:CYS:HA	1:F:286:CYS:CB	2.32	0.57
1:F:470:CYS:O	1:F:470:CYS:SG	2.63	0.57
1:G:142:VAL:HB	1:G:402:SER:OG	2.04	0.57
1:G:195:ILE:HG22	1:G:196:GLU:N	2.18	0.57
1:H:187:LYS:O	1:H:190:LYS:HG2	2.04	0.57
1:I:7:VAL:HG22	1:I:9:PRO:HG3	1.85	0.57
1:I:261:PHE:CE1	1:P:256:ALA:HB2	2.40	0.57
1:J:103:LEU:O	1:J:103:LEU:HD13	2.04	0.57
1:J:137:THR:HG23	1:J:400:ILE:HG12	1.86	0.57
1:J:219:VAL:O	1:J:224:PRO:HG3	2.04	0.57
1:J:242:LYS:H	1:J:242:LYS:CD	2.01	0.57
1:K:144:ALA:CB	1:K:400:ILE:HG13	2.21	0.57
1:K:246:THR:C	1:K:248:ALA:N	2.62	0.57
1:K:251:ARG:H	1:L:250:ILE:HG22	1.69	0.57
1:L:155:MET:SD	1:L:387:ALA:HA	2.45	0.57
1:M:7:VAL:HG22	1:M:9:PRO:HG3	1.85	0.57
1:M:137:THR:HG23	1:M:400:ILE:HG12	1.86	0.57
1:M:319:LYS:HA	1:M:364:ALA:HB1	1.86	0.57
1:M:470:CYS:O	1:M:470:CYS:SG	2.63	0.57
1:N:148:GLU:O	1:N:152:LYS:HG3	2.05	0.57
1:N:256:ALA:HB2	1:O:261:PHE:CE1	2.40	0.57
1:N:385:ASP:O	1:N:388:VAL:HG12	2.03	0.57
1:N:403:GLY:CA	1:N:492:LEU:HD13	2.33	0.57
1:N:470:CYS:O	1:N:470:CYS:SG	2.63	0.57
1:O:319:LYS:HA	1:O:364:ALA:HB1	1.86	0.57
1:O:377:ILE:HD12	1:O:380:VAL:CG2	2.30	0.57
1:O:509:LEU:HD23	1:O:510:LEU:HB2	1.87	0.57
1:P:155:MET:CE	1:P:158:ILE:HD11	2.34	0.57
1:P:155:MET:SD	1:P:387:ALA:HA	2.45	0.57
1:A:250:ILE:HG22	1:B:251:ARG:H	1.69	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:123:GLY:CA	1:B:430:VAL:HG22	2.35	0.57
1:B:155:MET:CE	1:B:158:ILE:HD11	2.34	0.57
1:B:155:MET:SD	1:B:387:ALA:HA	2.45	0.57
1:B:170:LEU:CG	1:B:171:ALA:N	2.68	0.57
1:B:212:VAL:HG23	1:B:214:VAL:HG23	1.87	0.57
1:C:137:THR:HG23	1:C:400:ILE:HG12	1.86	0.57
1:C:208:LEU:O	1:C:209:ILE:HG22	2.03	0.57
1:C:213:LEU:HG	1:C:368:LEU:CD1	2.32	0.57
1:C:250:ILE:CG2	1:D:250:ILE:HG13	2.35	0.57
1:C:470:CYS:O	1:C:470:CYS:SG	2.63	0.57
1:D:155:MET:CE	1:D:158:ILE:HD11	2.34	0.57
1:D:470:CYS:SG	1:D:470:CYS:O	2.63	0.57
1:E:21:GLN:O	1:E:25:ILE:HG12	2.05	0.57
1:E:155:MET:SD	1:E:387:ALA:HA	2.45	0.57
1:F:237:CYS:HA	1:F:286:CYS:HB2	1.86	0.57
1:G:170:LEU:CG	1:G:171:ALA:N	2.68	0.57
1:G:203:ILE:O	1:G:204:ASP:HB2	2.04	0.57
1:G:219:VAL:O	1:G:224:PRO:HG3	2.04	0.57
1:G:242:LYS:H	1:G:242:LYS:CD	2.01	0.57
1:H:149:ILE:O	1:H:153:ILE:HG23	2.04	0.57
1:H:165:LYS:C	1:H:167:LYS:H	2.12	0.57
1:I:103:LEU:O	1:I:103:LEU:HD13	2.04	0.57
1:J:170:LEU:CG	1:J:171:ALA:N	2.68	0.57
1:J:195:ILE:HG22	1:J:196:GLU:N	2.18	0.57
1:J:203:ILE:O	1:J:204:ASP:HB2	2.04	0.57
1:J:252:ILE:O	1:J:252:ILE:HG22	2.05	0.57
1:K:142:VAL:HB	1:K:402:SER:OG	2.04	0.57
1:L:291:ASP:O	1:L:295:GLN:HB2	2.04	0.57
1:M:155:MET:CE	1:M:158:ILE:HD11	2.34	0.57
1:M:250:ILE:HG13	1:N:250:ILE:CG2	2.35	0.57
1:N:45:ASP:HB3	1:O:512:ILE:HD12	1.87	0.57
1:N:173:ILE:HG13	1:N:384:VAL:HG21	1.85	0.57
1:N:208:LEU:O	1:N:209:ILE:HG22	2.03	0.57
1:N:237:CYS:HA	1:N:286:CYS:CB	2.32	0.57
1:O:123:GLY:CA	1:O:430:VAL:HG22	2.35	0.57
1:O:195:ILE:HG22	1:O:196:GLU:N	2.18	0.57
1:P:212:VAL:HG23	1:P:214:VAL:HG23	1.87	0.57
1:P:319:LYS:HA	1:P:364:ALA:HB1	1.87	0.57
1:P:403:GLY:CA	1:P:492:LEU:HD13	2.33	0.57
1:A:62:VAL:O	1:A:66:ARG:HG3	2.04	0.56
1:A:203:ILE:O	1:A:204:ASP:HB2	2.04	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:212:VAL:HG23	1:A:214:VAL:HG23	1.87	0.56
1:A:219:VAL:O	1:A:224:PRO:HG3	2.04	0.56
1:A:250:ILE:HG21	1:B:250:ILE:HG13	1.85	0.56
1:B:377:ILE:HD12	1:B:380:VAL:CG2	2.30	0.56
1:C:326:ILE:H	1:C:326:ILE:CD1	2.16	0.56
1:D:119:ILE:HD13	1:D:425:ARG:HB2	1.87	0.56
1:D:261:PHE:CE1	1:E:256:ALA:HB2	2.40	0.56
1:D:509:LEU:HD23	1:D:510:LEU:HB2	1.87	0.56
1:E:142:VAL:HB	1:E:402:SER:OG	2.04	0.56
1:E:291:ASP:O	1:E:295:GLN:HB2	2.04	0.56
1:E:326:ILE:H	1:E:326:ILE:CD1	2.16	0.56
1:F:142:VAL:HB	1:F:402:SER:OG	2.04	0.56
1:F:155:MET:SD	1:F:387:ALA:HA	2.45	0.56
1:F:319:LYS:HA	1:F:364:ALA:HB1	1.86	0.56
1:G:103:LEU:O	1:G:103:LEU:HD13	2.04	0.56
1:H:7:VAL:HG22	1:H:9:PRO:HG3	1.85	0.56
1:H:49:VAL:CG1	1:H:50:ASP:H	1.94	0.56
1:I:49:VAL:CG1	1:I:50:ASP:H	1.94	0.56
1:I:149:ILE:O	1:I:153:ILE:HG23	2.04	0.56
1:I:187:LYS:O	1:I:190:LYS:HG2	2.04	0.56
1:I:251:ARG:H	1:J:250:ILE:HG22	1.69	0.56
1:K:470:CYS:O	1:K:470:CYS:SG	2.63	0.56
1:L:21:GLN:O	1:L:25:ILE:HG12	2.05	0.56
1:L:137:THR:HG23	1:L:400:ILE:HG12	1.86	0.56
1:L:142:VAL:HB	1:L:402:SER:OG	2.04	0.56
1:L:256:ALA:HB2	1:M:261:PHE:CE1	2.40	0.56
1:M:148:GLU:O	1:M:152:LYS:HG3	2.05	0.56
1:M:509:LEU:HD23	1:M:510:LEU:HB2	1.87	0.56
1:N:137:THR:HG23	1:N:400:ILE:HG12	1.86	0.56
1:N:213:LEU:HG	1:N:368:LEU:CD1	2.32	0.56
1:N:509:LEU:HD23	1:N:510:LEU:HB2	1.87	0.56
1:O:170:LEU:CG	1:O:171:ALA:N	2.68	0.56
1:O:212:VAL:HG23	1:O:214:VAL:HG23	1.87	0.56
1:A:251:ARG:NH1	1:B:258:LEU:HD22	2.18	0.56
1:A:509:LEU:HD23	1:A:510:LEU:HB2	1.87	0.56
1:C:509:LEU:HD23	1:C:510:LEU:HB2	1.88	0.56
1:D:148:GLU:O	1:D:152:LYS:HG3	2.05	0.56
1:F:123:GLY:CA	1:F:430:VAL:HG22	2.35	0.56
1:F:208:LEU:O	1:F:209:ILE:HG22	2.03	0.56
1:F:246:THR:C	1:F:248:ALA:N	2.62	0.56
1:F:512:ILE:HD12	1:G:45:ASP:HB3	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:470:CYS:O	1:G:470:CYS:SG	2.63	0.56
1:I:165:LYS:C	1:I:167:LYS:H	2.12	0.56
1:I:250:ILE:HG13	1:J:250:ILE:CG2	2.35	0.56
1:K:21:GLN:O	1:K:25:ILE:HG12	2.05	0.56
1:K:123:GLY:CA	1:K:430:VAL:HG22	2.35	0.56
1:K:155:MET:SD	1:K:387:ALA:HA	2.45	0.56
1:K:208:LEU:O	1:K:209:ILE:HG22	2.03	0.56
1:L:119:ILE:HD13	1:L:425:ARG:HB2	1.87	0.56
1:L:326:ILE:H	1:L:326:ILE:CD1	2.16	0.56
1:M:119:ILE:HD13	1:M:425:ARG:HB2	1.87	0.56
1:O:11:ASN:HD22	1:O:12:MET:HG2	1.70	0.56
1:O:470:CYS:SG	1:O:470:CYS:O	2.63	0.56
1:P:62:VAL:O	1:P:66:ARG:HG3	2.04	0.56
1:P:203:ILE:O	1:P:204:ASP:HB2	2.04	0.56
1:A:11:ASN:HD22	1:A:12:MET:HG2	1.71	0.56
1:A:514:ASP:O	1:A:516:ILE:N	2.39	0.56
1:B:11:ASN:HD22	1:B:12:MET:HG2	1.70	0.56
1:B:194:LYS:HZ1	1:B:316:LYS:HD2	1.69	0.56
1:B:490:GLU:HA	1:B:492:LEU:N	2.20	0.56
1:B:512:ILE:HD12	1:C:45:ASP:HB3	1.87	0.56
1:C:21:GLN:O	1:C:25:ILE:HG12	2.05	0.56
1:C:85:GLN:NE2	1:C:497:GLN:HB3	2.17	0.56
1:C:155:MET:SD	1:C:387:ALA:HA	2.45	0.56
1:C:237:CYS:HA	1:C:286:CYS:CB	2.32	0.56
1:C:250:ILE:HG22	1:D:251:ARG:H	1.69	0.56
1:D:13:LYS:HA	1:D:14:ARG:NH1	2.20	0.56
1:D:21:GLN:O	1:D:25:ILE:HG12	2.05	0.56
1:E:119:ILE:HD13	1:E:425:ARG:HB2	1.87	0.56
1:E:137:THR:HG23	1:E:400:ILE:HG12	1.86	0.56
1:E:216:LYS:HZ2	1:E:352:SER:HB2	1.70	0.56
1:E:250:ILE:CG2	1:F:250:ILE:HG13	2.35	0.56
1:E:512:ILE:HD12	1:F:45:ASP:HB3	1.87	0.56
1:F:11:ASN:HD22	1:F:12:MET:HG2	1.70	0.56
1:F:21:GLN:O	1:F:25:ILE:HG12	2.05	0.56
1:F:148:GLU:O	1:F:152:LYS:HG3	2.05	0.56
1:F:213:LEU:HG	1:F:368:LEU:CD1	2.32	0.56
1:F:515:VAL:HG13	1:F:516:ILE:N	2.20	0.56
1:G:119:ILE:HD13	1:G:425:ARG:HB2	1.87	0.56
1:G:170:LEU:HG	1:G:171:ALA:N	2.20	0.56
1:G:250:ILE:HG22	1:H:251:ARG:H	1.69	0.56
1:H:142:VAL:HB	1:H:402:SER:OG	2.04	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:436:ALA:O	1:H:440:ILE:HG12	2.06	0.56
1:H:514:ASP:O	1:H:516:ILE:N	2.39	0.56
1:I:142:VAL:HB	1:I:402:SER:OG	2.04	0.56
1:I:514:ASP:O	1:I:516:ILE:N	2.39	0.56
1:J:45:ASP:HB3	1:K:512:ILE:HD12	1.87	0.56
1:J:119:ILE:HD13	1:J:425:ARG:HB2	1.87	0.56
1:J:170:LEU:HG	1:J:171:ALA:N	2.20	0.56
1:J:470:CYS:O	1:J:470:CYS:SG	2.63	0.56
1:K:11:ASN:HD22	1:K:12:MET:HG2	1.70	0.56
1:K:148:GLU:O	1:K:152:LYS:HG3	2.05	0.56
1:K:213:LEU:HG	1:K:368:LEU:CD1	2.32	0.56
1:K:250:ILE:HG13	1:L:250:ILE:CG2	2.35	0.56
1:K:319:LYS:HA	1:K:364:ALA:HB1	1.86	0.56
1:K:515:VAL:HG13	1:K:516:ILE:N	2.20	0.56
1:M:13:LYS:HA	1:M:14:ARG:NH1	2.20	0.56
1:M:21:GLN:O	1:M:25:ILE:HG12	2.05	0.56
1:N:21:GLN:O	1:N:25:ILE:HG12	2.05	0.56
1:N:94:THR:HA	1:N:97:VAL:HG23	1.88	0.56
1:N:194:LYS:HZ1	1:N:316:LYS:HD2	1.69	0.56
1:N:212:VAL:HG23	1:N:214:VAL:HG23	1.87	0.56
1:N:326:ILE:H	1:N:326:ILE:CD1	2.16	0.56
1:O:156:THR:HG21	1:O:170:LEU:CA	2.30	0.56
1:O:251:ARG:H	1:P:250:ILE:HG22	1.69	0.56
1:P:11:ASN:HD22	1:P:12:MET:HG2	1.71	0.56
1:P:436:ALA:O	1:P:440:ILE:HG12	2.06	0.56
1:P:509:LEU:HD23	1:P:510:LEU:HB2	1.88	0.56
1:P:514:ASP:O	1:P:516:ILE:N	2.39	0.56
1:A:123:GLY:CA	1:A:430:VAL:HG22	2.35	0.56
1:B:94:THR:HA	1:B:97:VAL:HG23	1.88	0.56
1:C:94:THR:HA	1:C:97:VAL:HG23	1.88	0.56
1:C:212:VAL:HG23	1:C:214:VAL:HG23	1.87	0.56
1:C:512:ILE:HA	1:D:45:ASP:HB2	1.85	0.56
1:D:11:ASN:HD22	1:D:12:MET:HG2	1.70	0.56
1:E:203:ILE:O	1:E:204:ASP:HB2	2.04	0.56
1:E:490:GLU:HA	1:E:492:LEU:N	2.21	0.56
1:G:84:THR:HG22	1:H:373:THR:HG21	1.87	0.56
1:G:403:GLY:CA	1:G:492:LEU:HD13	2.33	0.56
1:G:514:ASP:O	1:G:516:ILE:N	2.39	0.56
1:H:319:LYS:HA	1:H:364:ALA:HB1	1.86	0.56
1:I:373:THR:HG21	1:J:84:THR:HG22	1.87	0.56
1:I:436:ALA:O	1:I:440:ILE:HG12	2.06	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:45:ASP:HB3	1:L:512:ILE:HD12	1.87	0.56
1:K:514:ASP:O	1:K:516:ILE:N	2.39	0.56
1:L:490:GLU:HA	1:L:492:LEU:N	2.21	0.56
1:M:11:ASN:HD22	1:M:12:MET:HG2	1.70	0.56
1:M:94:THR:HA	1:M:97:VAL:HG23	1.88	0.56
1:M:251:ARG:H	1:N:250:ILE:HG22	1.69	0.56
1:N:155:MET:SD	1:N:387:ALA:HA	2.45	0.56
1:O:203:ILE:O	1:O:204:ASP:HB2	2.04	0.56
1:O:253:THR:HG23	1:P:253:THR:OG1	2.04	0.56
1:A:470:CYS:SG	1:A:470:CYS:O	2.63	0.56
1:B:203:ILE:O	1:B:204:ASP:HB2	2.04	0.56
1:D:94:THR:HA	1:D:97:VAL:HG23	1.88	0.56
1:D:237:CYS:HA	1:D:286:CYS:HB2	1.86	0.56
1:E:237:CYS:HA	1:E:286:CYS:CB	2.32	0.56
1:E:470:CYS:O	1:E:470:CYS:SG	2.63	0.56
1:F:251:ARG:NH1	1:G:258:LEU:HD22	2.19	0.56
1:F:462:ALA:O	1:F:466:ASN:HB3	2.06	0.56
1:F:514:ASP:O	1:F:516:ILE:N	2.39	0.56
1:G:433:PHE:CE2	1:G:437:LEU:HG	2.41	0.56
1:G:436:ALA:O	1:G:440:ILE:HG12	2.06	0.56
1:H:155:MET:SD	1:H:387:ALA:HA	2.45	0.56
1:H:212:VAL:HG23	1:H:214:VAL:HG23	1.87	0.56
1:H:470:CYS:O	1:H:470:CYS:SG	2.63	0.56
1:I:155:MET:SD	1:I:387:ALA:HA	2.45	0.56
1:I:212:VAL:HG23	1:I:214:VAL:HG23	1.87	0.56
1:I:470:CYS:O	1:I:470:CYS:SG	2.63	0.56
1:J:256:ALA:HB2	1:K:261:PHE:CE1	2.40	0.56
1:J:433:PHE:CE2	1:J:437:LEU:HG	2.41	0.56
1:J:436:ALA:O	1:J:440:ILE:HG12	2.06	0.56
1:J:514:ASP:O	1:J:516:ILE:N	2.39	0.56
1:K:462:ALA:O	1:K:466:ASN:HB3	2.06	0.56
1:L:11:ASN:HD22	1:L:12:MET:HG2	1.71	0.56
1:L:203:ILE:O	1:L:204:ASP:HB2	2.04	0.56
1:M:45:ASP:HB3	1:N:512:ILE:HD12	1.87	0.56
1:O:94:THR:HA	1:O:97:VAL:HG23	1.88	0.56
1:O:142:VAL:HB	1:O:402:SER:OG	2.04	0.56
1:P:219:VAL:O	1:P:224:PRO:HG3	2.04	0.56
1:P:410:GLU:CB	1:P:468:ASN:HD21	2.14	0.56
1:A:436:ALA:O	1:A:440:ILE:HG12	2.06	0.56
1:D:213:LEU:HB3	1:D:366:THR:CB	2.36	0.56
1:D:512:ILE:HA	1:E:45:ASP:HB2	1.85	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:11:ASN:HD22	1:E:12:MET:HG2	1.71	0.56
1:E:246:THR:C	1:E:248:ALA:N	2.64	0.56
1:F:250:ILE:HG23	1:G:253:THR:CA	2.36	0.56
1:G:11:ASN:HD22	1:G:12:MET:HG2	1.71	0.56
1:H:148:GLU:O	1:H:152:LYS:HG3	2.05	0.56
1:I:94:THR:HA	1:I:97:VAL:HG23	1.88	0.56
1:I:203:ILE:O	1:I:204:ASP:HB2	2.04	0.56
1:I:319:LYS:HA	1:I:364:ALA:HB1	1.86	0.56
1:J:11:ASN:HD22	1:J:12:MET:HG2	1.71	0.56
1:J:148:GLU:O	1:J:152:LYS:HG3	2.05	0.56
1:J:403:GLY:CA	1:J:492:LEU:HD13	2.33	0.56
1:K:291:ASP:O	1:K:295:GLN:HB2	2.04	0.56
1:L:470:CYS:SG	1:L:470:CYS:O	2.63	0.56
1:M:45:ASP:HB2	1:N:512:ILE:HA	1.85	0.56
1:M:213:LEU:HB3	1:M:366:THR:CB	2.36	0.56
1:M:250:ILE:HG13	1:N:250:ILE:HG21	1.85	0.56
1:N:85:GLN:NE2	1:N:497:GLN:HB3	2.17	0.56
1:O:155:MET:CE	1:O:158:ILE:HD11	2.34	0.56
1:O:515:VAL:HG13	1:O:516:ILE:N	2.20	0.56
1:A:253:THR:OG1	1:B:253:THR:HG23	2.05	0.56
1:B:470:CYS:O	1:B:470:CYS:SG	2.63	0.56
1:C:512:ILE:HD12	1:D:45:ASP:HB3	1.87	0.56
1:F:261:PHE:CE1	1:G:256:ALA:HB2	2.40	0.56
1:F:291:ASP:O	1:F:295:GLN:HB2	2.04	0.56
1:G:148:GLU:O	1:G:152:LYS:HG3	2.05	0.56
1:G:155:MET:SD	1:G:387:ALA:HA	2.45	0.56
1:G:431:ARG:HE	1:G:432:ALA:N	2.04	0.56
1:G:515:VAL:HG13	1:G:516:ILE:N	2.20	0.56
1:H:94:THR:HA	1:H:97:VAL:HG23	1.88	0.56
1:H:203:ILE:O	1:H:204:ASP:HB2	2.04	0.56
1:I:11:ASN:HD22	1:I:12:MET:HG2	1.70	0.56
1:J:155:MET:SD	1:J:387:ALA:HA	2.45	0.56
1:J:253:THR:CA	1:K:250:ILE:HG23	2.36	0.56
1:L:45:ASP:HB2	1:M:512:ILE:HA	1.85	0.56
1:L:237:CYS:HA	1:L:286:CYS:CB	2.32	0.56
1:M:237:CYS:HA	1:M:286:CYS:HB2	1.86	0.56
1:O:213:LEU:HB3	1:O:366:THR:CB	2.36	0.56
1:P:94:THR:HA	1:P:97:VAL:HG23	1.88	0.56
1:P:123:GLY:CA	1:P:430:VAL:HG22	2.35	0.56
1:P:462:ALA:O	1:P:466:ASN:HB3	2.06	0.56
1:P:470:CYS:O	1:P:470:CYS:SG	2.63	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:94:THR:HA	1:A:97:VAL:HG23	1.88	0.56
1:A:462:ALA:O	1:A:466:ASN:HB3	2.06	0.56
1:B:213:LEU:HB3	1:B:366:THR:CB	2.36	0.56
1:B:514:ASP:O	1:B:516:ILE:N	2.39	0.56
1:C:179:SER:O	1:C:182:VAL:HG12	2.06	0.56
1:C:252:ILE:HG22	1:C:252:ILE:O	2.05	0.56
1:D:431:ARG:HE	1:D:432:ALA:N	2.04	0.56
1:D:512:ILE:HD12	1:E:45:ASP:HB3	1.87	0.56
1:D:531:GLY:O	1:E:4:GLN:HG3	2.06	0.56
1:E:94:THR:HA	1:E:97:VAL:HG23	1.88	0.56
1:E:179:SER:O	1:E:182:VAL:HG12	2.06	0.56
1:F:433:PHE:CE2	1:F:437:LEU:HG	2.41	0.56
1:F:531:GLY:O	1:G:4:GLN:HG3	2.06	0.56
1:H:170:LEU:CG	1:H:171:ALA:N	2.68	0.56
1:I:84:THR:HG22	1:P:373:THR:HG21	1.87	0.56
1:I:148:GLU:O	1:I:152:LYS:HG3	2.05	0.56
1:J:4:GLN:HG3	1:K:531:GLY:O	2.06	0.56
1:J:216:LYS:HZ2	1:J:352:SER:HB2	1.69	0.56
1:J:431:ARG:HE	1:J:432:ALA:N	2.04	0.56
1:J:515:VAL:HG13	1:J:516:ILE:N	2.20	0.56
1:L:4:GLN:HG3	1:M:531:GLY:O	2.06	0.56
1:L:179:SER:O	1:L:182:VAL:HG12	2.06	0.56
1:L:246:THR:C	1:L:248:ALA:N	2.64	0.56
1:L:515:VAL:HG13	1:L:516:ILE:N	2.20	0.56
1:M:236:ASN:CG	1:M:317:LEU:HD22	2.31	0.56
1:M:431:ARG:HE	1:M:432:ALA:N	2.04	0.56
1:M:433:PHE:CE2	1:M:437:LEU:HG	2.41	0.56
1:N:4:GLN:HG3	1:O:531:GLY:O	2.06	0.56
1:N:179:SER:O	1:N:182:VAL:HG12	2.06	0.56
1:O:45:ASP:HB3	1:P:512:ILE:HD12	1.87	0.56
1:B:48:LEU:HD21	1:B:55:VAL:H	1.70	0.56
1:B:70:VAL:HG23	1:B:71:GLU:N	2.15	0.56
1:B:169:LYS:HZ3	1:B:207:GLU:HG3	1.70	0.56
1:B:480:VAL:HG12	1:B:481:GLU:N	2.13	0.56
1:B:515:VAL:HG13	1:B:516:ILE:N	2.21	0.56
1:B:531:GLY:O	1:C:4:GLN:HG3	2.06	0.56
1:C:13:LYS:HA	1:C:14:ARG:NH1	2.20	0.56
1:C:18:ARG:O	1:C:18:ARG:HG2	2.06	0.56
1:C:70:VAL:HG23	1:C:71:GLU:N	2.15	0.56
1:C:431:ARG:HE	1:C:432:ALA:N	2.04	0.56
1:C:531:GLY:O	1:D:4:GLN:HG3	2.06	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:155:MET:SD	1:D:387:ALA:HA	2.45	0.56
1:D:212:VAL:HG23	1:D:214:VAL:HG23	1.87	0.56
1:D:213:LEU:HG	1:D:368:LEU:CD1	2.32	0.56
1:D:433:PHE:CE2	1:D:437:LEU:HG	2.41	0.56
1:D:490:GLU:HA	1:D:492:LEU:N	2.21	0.56
1:E:515:VAL:HG13	1:E:516:ILE:N	2.20	0.56
1:G:94:THR:HA	1:G:97:VAL:HG23	1.88	0.56
1:H:11:ASN:HD22	1:H:12:MET:HG2	1.70	0.56
1:H:23:MET:O	1:H:23:MET:HE3	2.06	0.56
1:H:431:ARG:HE	1:H:432:ALA:N	2.04	0.56
1:H:509:LEU:HD23	1:H:510:LEU:HB2	1.87	0.56
1:I:23:MET:O	1:I:23:MET:HE3	2.06	0.56
1:I:170:LEU:CG	1:I:171:ALA:N	2.68	0.56
1:I:431:ARG:HE	1:I:432:ALA:N	2.04	0.56
1:J:94:THR:HA	1:J:97:VAL:HG23	1.88	0.56
1:K:433:PHE:CE2	1:K:437:LEU:HG	2.41	0.56
1:L:94:THR:HA	1:L:97:VAL:HG23	1.88	0.56
1:L:509:LEU:HD23	1:L:510:LEU:HB2	1.88	0.56
1:M:4:GLN:HG3	1:N:531:GLY:O	2.06	0.56
1:M:142:VAL:HB	1:M:402:SER:OG	2.04	0.56
1:M:155:MET:SD	1:M:387:ALA:HA	2.45	0.56
1:M:194:LYS:HZ1	1:M:316:LYS:HD2	1.70	0.56
1:M:258:LEU:HD22	1:N:251:ARG:NH1	2.17	0.56
1:M:490:GLU:HA	1:M:492:LEU:N	2.21	0.56
1:O:4:GLN:HG3	1:P:531:GLY:O	2.06	0.56
1:O:237:CYS:HA	1:O:286:CYS:HB2	1.86	0.56
1:O:436:ALA:O	1:O:440:ILE:HG12	2.06	0.56
1:P:515:VAL:HG13	1:P:516:ILE:N	2.20	0.56
1:A:61:GLY:HA3	1:A:94:THR:CG2	2.29	0.56
1:A:531:GLY:O	1:B:4:GLN:HG3	2.06	0.56
1:B:237:CYS:HA	1:B:286:CYS:HB2	1.86	0.56
1:C:119:ILE:HD13	1:C:425:ARG:HB2	1.87	0.56
1:D:18:ARG:O	1:D:18:ARG:HG2	2.06	0.56
1:D:236:ASN:CG	1:D:317:LEU:HD22	2.31	0.56
1:D:514:ASP:O	1:D:516:ILE:N	2.39	0.56
1:E:433:PHE:CE2	1:E:437:LEU:HG	2.41	0.56
1:E:509:LEU:HD23	1:E:510:LEU:HB2	1.88	0.56
1:F:394:THR:O	1:F:399:ARG:HD3	2.06	0.56
1:H:13:LYS:N	1:H:13:LYS:CD	2.69	0.56
1:H:83:LYS:HA	1:H:86:GLU:CD	2.31	0.56
1:H:119:ILE:HD13	1:H:425:ARG:HB2	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:83:LYS:HA	1:I:86:GLU:CD	2.31	0.56
1:I:509:LEU:HD23	1:I:510:LEU:HB2	1.87	0.56
1:I:512:ILE:HD12	1:P:45:ASP:HB3	1.87	0.56
1:K:394:THR:O	1:K:399:ARG:HD3	2.06	0.56
1:L:514:ASP:O	1:L:516:ILE:N	2.39	0.56
1:M:18:ARG:HG2	1:M:18:ARG:O	2.06	0.56
1:M:212:VAL:HG23	1:M:214:VAL:HG23	1.87	0.56
1:M:213:LEU:HG	1:M:368:LEU:CD1	2.32	0.56
1:N:13:LYS:HA	1:N:14:ARG:NH1	2.20	0.56
1:N:18:ARG:O	1:N:18:ARG:HG2	2.06	0.56
1:N:170:LEU:CG	1:N:171:ALA:N	2.68	0.56
1:N:246:THR:C	1:N:248:ALA:N	2.64	0.56
1:N:252:ILE:HG22	1:N:252:ILE:O	2.05	0.56
1:N:431:ARG:HE	1:N:432:ALA:N	2.04	0.56
1:O:153:ILE:HG13	1:O:154:ALA:N	2.21	0.56
1:O:462:ALA:O	1:O:466:ASN:HB3	2.06	0.56
1:O:514:ASP:O	1:O:516:ILE:N	2.39	0.56
1:A:373:THR:HG21	1:H:84:THR:HG22	1.88	0.55
1:A:410:GLU:CB	1:A:468:ASN:HD21	2.14	0.55
1:A:490:GLU:HA	1:A:492:LEU:N	2.20	0.55
1:A:515:VAL:HG13	1:A:516:ILE:N	2.21	0.55
1:B:238:ALA:O	1:B:289:GLY:HA2	2.06	0.55
1:B:462:ALA:O	1:B:466:ASN:HB3	2.06	0.55
1:C:11:ASN:HD22	1:C:12:MET:HG2	1.71	0.55
1:C:84:THR:HG22	1:D:373:THR:HG21	1.87	0.55
1:C:250:ILE:HG21	1:D:250:ILE:HG13	1.86	0.55
1:C:372:THR:HB	1:C:377:ILE:HD13	1.88	0.55
1:C:514:ASP:O	1:C:516:ILE:N	2.39	0.55
1:D:142:VAL:HB	1:D:402:SER:OG	2.04	0.55
1:E:83:LYS:HA	1:E:86:GLU:CD	2.32	0.55
1:E:213:LEU:HB3	1:E:366:THR:CB	2.36	0.55
1:E:514:ASP:O	1:E:516:ILE:N	2.39	0.55
1:F:94:THR:HA	1:F:97:VAL:HG23	1.88	0.55
1:F:119:ILE:HD13	1:F:425:ARG:HB2	1.87	0.55
1:F:509:LEU:HD23	1:F:510:LEU:HB2	1.87	0.55
1:G:179:SER:O	1:G:182:VAL:HG12	2.06	0.55
1:G:213:LEU:HB3	1:G:366:THR:CB	2.36	0.55
1:G:220:SER:HB3	1:G:305:ALA:O	2.06	0.55
1:G:512:ILE:HD12	1:H:45:ASP:HB3	1.87	0.55
1:H:153:ILE:HG13	1:H:154:ALA:N	2.21	0.55
1:I:13:LYS:N	1:I:13:LYS:CD	2.69	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:119:ILE:HD13	1:I:425:ARG:HB2	1.87	0.55
1:J:123:GLY:CA	1:J:430:VAL:HG22	2.35	0.55
1:J:213:LEU:HB3	1:J:366:THR:CB	2.36	0.55
1:L:45:ASP:HB3	1:M:512:ILE:HD12	1.87	0.55
1:L:83:LYS:HA	1:L:86:GLU:CD	2.32	0.55
1:M:273:VAL:O	1:M:276:ILE:HG22	2.07	0.55
1:M:514:ASP:O	1:M:516:ILE:N	2.39	0.55
1:N:49:VAL:CG1	1:N:50:ASP:H	1.94	0.55
1:N:70:VAL:HG23	1:N:71:GLU:N	2.15	0.55
1:O:83:LYS:HA	1:O:86:GLU:CD	2.31	0.55
1:O:490:GLU:HA	1:O:492:LEU:N	2.21	0.55
1:P:13:LYS:N	1:P:13:LYS:CD	2.69	0.55
1:P:433:PHE:CE2	1:P:437:LEU:HG	2.41	0.55
1:A:213:LEU:HB3	1:A:366:THR:CB	2.36	0.55
1:B:13:LYS:N	1:B:13:LYS:CD	2.69	0.55
1:B:83:LYS:HA	1:B:86:GLU:CD	2.31	0.55
1:B:153:ILE:HG13	1:B:154:ALA:N	2.22	0.55
1:C:170:LEU:CG	1:C:171:ALA:N	2.68	0.55
1:C:194:LYS:HZ1	1:C:316:LYS:HD2	1.70	0.55
1:C:236:ASN:CG	1:C:317:LEU:HD22	2.31	0.55
1:C:238:ALA:O	1:C:289:GLY:HA2	2.06	0.55
1:C:246:THR:C	1:C:248:ALA:N	2.64	0.55
1:C:273:VAL:O	1:C:276:ILE:HG22	2.07	0.55
1:C:410:GLU:CB	1:C:468:ASN:HD21	2.14	0.55
1:D:273:VAL:O	1:D:276:ILE:HG22	2.07	0.55
1:F:326:ILE:H	1:F:326:ILE:CD1	2.16	0.55
1:F:490:GLU:HA	1:F:492:LEU:N	2.21	0.55
1:G:123:GLY:CA	1:G:430:VAL:HG22	2.35	0.55
1:G:372:THR:HB	1:G:377:ILE:HD13	1.88	0.55
1:G:490:GLU:HA	1:G:492:LEU:N	2.21	0.55
1:H:213:LEU:HB3	1:H:366:THR:CB	2.36	0.55
1:I:45:ASP:HB3	1:J:512:ILE:HD12	1.87	0.55
1:I:153:ILE:HG13	1:I:154:ALA:N	2.21	0.55
1:I:213:LEU:HB3	1:I:366:THR:CB	2.36	0.55
1:I:277:LYS:CG	1:I:301:GLU:HB3	2.20	0.55
1:J:179:SER:O	1:J:182:VAL:HG12	2.06	0.55
1:J:220:SER:HB3	1:J:305:ALA:O	2.06	0.55
1:J:372:THR:HB	1:J:377:ILE:HD13	1.88	0.55
1:J:490:GLU:HA	1:J:492:LEU:N	2.21	0.55
1:K:23:MET:O	1:K:23:MET:HE3	2.06	0.55
1:K:94:THR:HA	1:K:97:VAL:HG23	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:119:ILE:HD13	1:K:425:ARG:HB2	1.87	0.55
1:K:509:LEU:HD23	1:K:510:LEU:HB2	1.87	0.55
1:L:213:LEU:HB3	1:L:366:THR:CB	2.36	0.55
1:L:433:PHE:CE2	1:L:437:LEU:HG	2.41	0.55
1:L:462:ALA:O	1:L:466:ASN:HB3	2.06	0.55
1:M:373:THR:HG21	1:N:84:THR:HG22	1.87	0.55
1:N:11:ASN:HD22	1:N:12:MET:HG2	1.71	0.55
1:N:119:ILE:HD13	1:N:425:ARG:HB2	1.87	0.55
1:N:220:SER:HB3	1:N:305:ALA:O	2.06	0.55
1:N:238:ALA:O	1:N:289:GLY:HA2	2.07	0.55
1:N:273:VAL:O	1:N:276:ILE:HG22	2.07	0.55
1:N:372:THR:HB	1:N:377:ILE:HD13	1.88	0.55
1:N:514:ASP:O	1:N:516:ILE:N	2.39	0.55
1:N:515:VAL:HG13	1:N:516:ILE:N	2.20	0.55
1:O:236:ASN:CG	1:O:317:LEU:HD22	2.31	0.55
1:O:273:VAL:O	1:O:276:ILE:HG22	2.07	0.55
1:O:372:THR:HB	1:O:377:ILE:HD13	1.88	0.55
1:P:213:LEU:HB3	1:P:366:THR:CB	2.36	0.55
1:A:83:LYS:HA	1:A:86:GLU:CD	2.32	0.55
1:A:84:THR:HG22	1:B:373:THR:HG21	1.87	0.55
1:A:148:GLU:O	1:A:152:LYS:HG3	2.05	0.55
1:B:236:ASN:CG	1:B:317:LEU:HD22	2.31	0.55
1:B:273:VAL:O	1:B:276:ILE:HG22	2.07	0.55
1:B:436:ALA:O	1:B:440:ILE:HG12	2.06	0.55
1:C:83:LYS:HA	1:C:86:GLU:CD	2.32	0.55
1:C:212:VAL:HG23	1:C:214:VAL:CG2	2.37	0.55
1:C:220:SER:HB3	1:C:305:ALA:O	2.06	0.55
1:C:251:ARG:NH1	1:D:258:LEU:HD22	2.18	0.55
1:C:515:VAL:HG13	1:C:516:ILE:N	2.20	0.55
1:E:462:ALA:O	1:E:466:ASN:HB3	2.06	0.55
1:F:23:MET:O	1:F:23:MET:HE3	2.06	0.55
1:F:212:VAL:HG23	1:F:214:VAL:HG23	1.87	0.55
1:F:372:THR:HB	1:F:377:ILE:HD13	1.88	0.55
1:G:210:LYS:HG3	1:G:211:GLY:N	2.22	0.55
1:G:462:ALA:O	1:G:466:ASN:HB3	2.06	0.55
1:H:212:VAL:HG23	1:H:214:VAL:CG2	2.37	0.55
1:H:277:LYS:CG	1:H:301:GLU:HB3	2.20	0.55
1:I:123:GLY:CA	1:I:430:VAL:HG22	2.35	0.55
1:I:179:SER:O	1:I:182:VAL:HG12	2.06	0.55
1:I:212:VAL:HG23	1:I:214:VAL:CG2	2.37	0.55
1:I:531:GLY:O	1:P:4:GLN:HG3	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:49:VAL:H	1:K:519:GLU:CD	2.15	0.55
1:J:462:ALA:O	1:J:466:ASN:HB3	2.06	0.55
1:K:212:VAL:HG23	1:K:214:VAL:HG23	1.87	0.55
1:K:372:THR:HB	1:K:377:ILE:HD13	1.88	0.55
1:N:83:LYS:HA	1:N:86:GLU:CD	2.32	0.55
1:N:236:ASN:CG	1:N:317:LEU:HD22	2.31	0.55
1:O:13:LYS:N	1:O:13:LYS:CD	2.69	0.55
1:O:70:VAL:HG23	1:O:71:GLU:N	2.15	0.55
1:O:220:SER:HB3	1:O:305:ALA:O	2.07	0.55
1:P:83:LYS:HA	1:P:86:GLU:CD	2.32	0.55
1:P:220:SER:HB3	1:P:305:ALA:O	2.06	0.55
1:P:431:ARG:HE	1:P:432:ALA:N	2.04	0.55
1:A:4:GLN:HG3	1:H:531:GLY:O	2.06	0.55
1:A:45:ASP:HB3	1:H:512:ILE:HD12	1.87	0.55
1:A:179:SER:O	1:A:182:VAL:HG12	2.06	0.55
1:A:253:THR:CA	1:H:250:ILE:HG23	2.36	0.55
1:B:220:SER:HB3	1:B:305:ALA:O	2.07	0.55
1:B:372:THR:HB	1:B:377:ILE:HD13	1.88	0.55
1:B:514:ASP:OD1	1:C:46:LYS:HA	2.07	0.55
1:C:213:LEU:HB3	1:C:366:THR:CB	2.36	0.55
1:C:394:THR:O	1:C:399:ARG:HD3	2.07	0.55
1:D:519:GLU:CD	1:E:49:VAL:H	2.15	0.55
1:E:519:GLU:CD	1:F:49:VAL:H	2.15	0.55
1:F:519:GLU:CD	1:G:49:VAL:H	2.15	0.55
1:G:212:VAL:HG23	1:G:214:VAL:HG23	1.87	0.55
1:G:394:THR:O	1:G:399:ARG:HD3	2.07	0.55
1:G:442:ARG:HH22	1:G:456:LEU:HA	1.71	0.55
1:H:179:SER:O	1:H:182:VAL:HG12	2.06	0.55
1:H:213:LEU:HG	1:H:368:LEU:CD1	2.32	0.55
1:H:394:THR:O	1:H:399:ARG:HD3	2.06	0.55
1:H:515:VAL:HG13	1:H:516:ILE:N	2.20	0.55
1:I:170:LEU:HG	1:I:171:ALA:N	2.20	0.55
1:I:250:ILE:HG23	1:P:253:THR:CA	2.36	0.55
1:I:394:THR:O	1:I:399:ARG:HD3	2.06	0.55
1:I:515:VAL:HG13	1:I:516:ILE:N	2.20	0.55
1:J:61:GLY:HA3	1:J:94:THR:CG2	2.30	0.55
1:J:210:LYS:HG3	1:J:211:GLY:N	2.22	0.55
1:J:212:VAL:HG23	1:J:214:VAL:HG23	1.87	0.55
1:J:394:THR:O	1:J:399:ARG:HD3	2.07	0.55
1:J:509:LEU:HD23	1:J:510:LEU:HB2	1.88	0.55
1:K:4:GLN:HG3	1:L:531:GLY:O	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:436:ALA:O	1:K:440:ILE:HG12	2.06	0.55
1:K:490:GLU:HA	1:K:492:LEU:N	2.21	0.55
1:L:49:VAL:H	1:M:519:GLU:CD	2.15	0.55
1:L:212:VAL:HG23	1:L:214:VAL:HG23	1.87	0.55
1:L:273:VAL:O	1:L:276:ILE:HG22	2.07	0.55
1:L:340:ALA:O	1:L:357:GLU:HG3	2.07	0.55
1:L:431:ARG:HE	1:L:432:ALA:N	2.04	0.55
1:N:61:GLY:HA3	1:N:94:THR:CG2	2.30	0.55
1:N:212:VAL:HG23	1:N:214:VAL:CG2	2.37	0.55
1:N:394:THR:O	1:N:399:ARG:HD3	2.07	0.55
1:N:410:GLU:CB	1:N:468:ASN:HD21	2.14	0.55
1:O:373:THR:HG21	1:P:84:THR:HG22	1.87	0.55
1:O:480:VAL:HG12	1:O:481:GLU:N	2.13	0.55
1:P:61:GLY:HA3	1:P:94:THR:CG2	2.30	0.55
1:P:148:GLU:O	1:P:152:LYS:HG3	2.05	0.55
1:P:212:VAL:HG23	1:P:214:VAL:CG2	2.37	0.55
1:A:273:VAL:O	1:A:276:ILE:HG22	2.07	0.55
1:A:431:ARG:HE	1:A:432:ALA:N	2.04	0.55
1:A:433:PHE:CE2	1:A:437:LEU:HG	2.41	0.55
1:B:433:PHE:CE2	1:B:437:LEU:HG	2.41	0.55
1:C:442:ARG:HH22	1:C:456:LEU:HA	1.71	0.55
1:D:84:THR:HG22	1:E:373:THR:HG21	1.87	0.55
1:D:462:ALA:O	1:D:466:ASN:HB3	2.06	0.55
1:E:212:VAL:HG23	1:E:214:VAL:CG2	2.37	0.55
1:E:212:VAL:HG23	1:E:214:VAL:HG23	1.87	0.55
1:E:273:VAL:O	1:E:276:ILE:HG22	2.07	0.55
1:E:340:ALA:O	1:E:357:GLU:HG3	2.07	0.55
1:E:436:ALA:O	1:E:440:ILE:HG12	2.06	0.55
1:E:531:GLY:O	1:F:4:GLN:HG3	2.06	0.55
1:F:436:ALA:O	1:F:440:ILE:HG12	2.06	0.55
1:G:509:LEU:HD23	1:G:510:LEU:HB2	1.88	0.55
1:H:18:ARG:O	1:H:18:ARG:HG2	2.06	0.55
1:H:123:GLY:CA	1:H:430:VAL:HG22	2.35	0.55
1:H:220:SER:HB3	1:H:305:ALA:O	2.07	0.55
1:I:220:SER:HB3	1:I:305:ALA:O	2.07	0.55
1:I:236:ASN:CG	1:I:317:LEU:HD22	2.31	0.55
1:I:372:THR:HB	1:I:377:ILE:HD13	1.88	0.55
1:I:490:GLU:HA	1:I:492:LEU:N	2.21	0.55
1:J:83:LYS:HA	1:J:86:GLU:CD	2.32	0.55
1:K:49:VAL:H	1:L:519:GLU:CD	2.15	0.55
1:K:326:ILE:H	1:K:326:ILE:CD1	2.16	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:236:ASN:CG	1:L:317:LEU:HD22	2.31	0.55
1:M:238:ALA:O	1:M:289:GLY:HA2	2.07	0.55
1:N:373:THR:HG21	1:O:84:THR:HG22	1.87	0.55
1:N:442:ARG:HH22	1:N:456:LEU:HA	1.71	0.55
1:O:238:ALA:O	1:O:289:GLY:HA2	2.07	0.55
1:O:394:THR:O	1:O:399:ARG:HD3	2.06	0.55
1:O:433:PHE:CE2	1:O:437:LEU:HG	2.41	0.55
1:P:179:SER:O	1:P:182:VAL:HG12	2.06	0.55
1:P:490:GLU:HA	1:P:492:LEU:N	2.21	0.55
1:A:210:LYS:HG3	1:A:211:GLY:N	2.22	0.55
1:A:212:VAL:HG23	1:A:214:VAL:CG2	2.37	0.55
1:B:13:LYS:HA	1:B:14:ARG:NH1	2.20	0.55
1:B:84:THR:HG22	1:C:373:THR:HG21	1.87	0.55
1:B:212:VAL:HG23	1:B:214:VAL:CG2	2.37	0.55
1:C:49:VAL:CG1	1:C:50:ASP:H	1.94	0.55
1:C:210:LYS:HG3	1:C:211:GLY:N	2.22	0.55
1:D:83:LYS:HA	1:D:86:GLU:CD	2.31	0.55
1:D:238:ALA:O	1:D:289:GLY:HA2	2.07	0.55
1:D:514:ASP:OD1	1:E:46:LYS:HA	2.07	0.55
1:E:236:ASN:CG	1:E:317:LEU:HD22	2.31	0.55
1:E:431:ARG:HE	1:E:432:ALA:N	2.04	0.55
1:F:213:LEU:HB3	1:F:366:THR:CB	2.36	0.55
1:F:220:SER:HB3	1:F:305:ALA:O	2.07	0.55
1:F:431:ARG:HE	1:F:432:ALA:N	2.04	0.55
1:G:61:GLY:HA3	1:G:94:THR:CG2	2.30	0.55
1:G:83:LYS:HA	1:G:86:GLU:CD	2.32	0.55
1:G:187:LYS:HD3	1:H:347:LYS:CB	2.36	0.55
1:G:212:VAL:HG23	1:G:214:VAL:CG2	2.37	0.55
1:H:170:LEU:HG	1:H:171:ALA:N	2.20	0.55
1:H:236:ASN:CG	1:H:317:LEU:HD22	2.31	0.55
1:H:372:THR:HB	1:H:377:ILE:HD13	1.88	0.55
1:H:490:GLU:HA	1:H:492:LEU:N	2.21	0.55
1:I:18:ARG:O	1:I:18:ARG:HG2	2.06	0.55
1:I:170:LEU:HD23	1:I:171:ALA:H	1.71	0.55
1:I:462:ALA:O	1:I:466:ASN:HB3	2.06	0.55
1:I:514:ASP:OD1	1:P:46:LYS:HA	2.07	0.55
1:J:170:LEU:HD23	1:J:171:ALA:H	1.71	0.55
1:J:442:ARG:HH22	1:J:456:LEU:HA	1.71	0.55
1:K:213:LEU:HB3	1:K:366:THR:CB	2.36	0.55
1:K:442:ARG:HH22	1:K:456:LEU:HA	1.71	0.55
1:L:212:VAL:HG23	1:L:214:VAL:CG2	2.37	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:345:GLU:HB2	1:L:355:PHE:HZ	1.72	0.55
1:L:436:ALA:O	1:L:440:ILE:HG12	2.06	0.55
1:M:83:LYS:HA	1:M:86:GLU:CD	2.31	0.55
1:M:210:LYS:HG3	1:M:211:GLY:N	2.22	0.55
1:M:462:ALA:O	1:M:466:ASN:HB3	2.06	0.55
1:M:515:VAL:HG13	1:M:516:ILE:N	2.20	0.55
1:N:46:LYS:HA	1:O:514:ASP:OD1	2.07	0.55
1:N:213:LEU:HB3	1:N:366:THR:CB	2.36	0.55
1:O:18:ARG:HG2	1:O:18:ARG:O	2.06	0.55
1:O:212:VAL:HG23	1:O:214:VAL:CG2	2.37	0.55
1:P:170:LEU:CG	1:P:171:ALA:N	2.68	0.55
1:P:273:VAL:O	1:P:276:ILE:HG22	2.07	0.55
1:A:46:LYS:HA	1:H:514:ASP:OD1	2.07	0.55
1:A:220:SER:HB3	1:A:305:ALA:O	2.07	0.55
1:A:236:ASN:CG	1:A:317:LEU:HD22	2.31	0.55
1:B:442:ARG:HH22	1:B:456:LEU:HA	1.71	0.55
1:C:61:GLY:HA3	1:C:94:THR:CG2	2.30	0.55
1:C:345:GLU:HB2	1:C:355:PHE:HZ	1.72	0.55
1:C:462:ALA:O	1:C:466:ASN:HB3	2.06	0.55
1:C:515:VAL:HG22	1:C:517:ALA:HA	1.89	0.55
1:D:85:GLN:NE2	1:D:497:GLN:HB3	2.17	0.55
1:D:210:LYS:HG3	1:D:211:GLY:N	2.22	0.55
1:D:212:VAL:HG23	1:D:214:VAL:CG2	2.37	0.55
1:D:250:ILE:HG23	1:E:253:THR:CA	2.36	0.55
1:D:515:VAL:HG13	1:D:516:ILE:N	2.20	0.55
1:E:170:LEU:HD23	1:E:171:ALA:H	1.71	0.55
1:E:210:LYS:HG3	1:E:211:GLY:N	2.22	0.55
1:E:345:GLU:HB2	1:E:355:PHE:HZ	1.72	0.55
1:F:18:ARG:O	1:F:18:ARG:HG2	2.06	0.55
1:F:83:LYS:HA	1:F:86:GLU:CD	2.31	0.55
1:F:340:ALA:O	1:F:357:GLU:HG3	2.07	0.55
1:F:514:ASP:OD1	1:G:46:LYS:HA	2.07	0.55
1:G:236:ASN:CG	1:G:317:LEU:HD22	2.31	0.55
1:H:170:LEU:HD23	1:H:171:ALA:H	1.71	0.55
1:H:462:ALA:O	1:H:466:ASN:HB3	2.06	0.55
1:I:49:VAL:H	1:J:519:GLU:CD	2.15	0.55
1:I:213:LEU:HG	1:I:368:LEU:CD1	2.32	0.55
1:I:347:LYS:CB	1:J:187:LYS:HD3	2.36	0.55
1:J:46:LYS:HA	1:K:514:ASP:OD1	2.07	0.55
1:J:212:VAL:HG23	1:J:214:VAL:CG2	2.37	0.55
1:J:236:ASN:CG	1:J:317:LEU:HD22	2.31	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:258:LEU:HD22	1:K:251:ARG:NH1	2.18	0.55
1:K:170:LEU:CG	1:K:171:ALA:N	2.68	0.55
1:K:220:SER:HB3	1:K:305:ALA:O	2.07	0.55
1:K:236:ASN:CG	1:K:317:LEU:HD22	2.31	0.55
1:L:46:LYS:HA	1:M:514:ASP:OD1	2.07	0.55
1:L:373:THR:HG21	1:M:84:THR:HG22	1.87	0.55
1:M:212:VAL:HG23	1:M:214:VAL:CG2	2.37	0.55
1:N:210:LYS:HG3	1:N:211:GLY:N	2.22	0.55
1:N:515:VAL:HG22	1:N:517:ALA:HA	1.89	0.55
1:O:210:LYS:HG3	1:O:211:GLY:N	2.22	0.55
1:P:210:LYS:HG3	1:P:211:GLY:N	2.22	0.55
1:P:345:GLU:HB2	1:P:355:PHE:HZ	1.72	0.55
1:A:170:LEU:CG	1:A:171:ALA:N	2.68	0.55
1:B:119:ILE:HD13	1:B:425:ARG:HB2	1.86	0.55
1:B:210:LYS:HG3	1:B:211:GLY:N	2.22	0.55
1:C:23:MET:O	1:C:23:MET:HE3	2.06	0.55
1:C:153:ILE:HG13	1:C:154:ALA:N	2.22	0.55
1:C:433:PHE:CE2	1:C:437:LEU:HG	2.41	0.55
1:C:519:GLU:CD	1:D:49:VAL:H	2.15	0.55
1:D:70:VAL:HG23	1:D:71:GLU:N	2.15	0.55
1:F:236:ASN:CG	1:F:317:LEU:HD22	2.31	0.55
1:F:442:ARG:HH22	1:F:456:LEU:HA	1.71	0.55
1:G:23:MET:HE3	1:G:23:MET:O	2.06	0.55
1:G:170:LEU:HD23	1:G:171:ALA:H	1.71	0.55
1:G:515:VAL:HG22	1:G:517:ALA:HA	1.89	0.55
1:G:519:GLU:CD	1:H:49:VAL:H	2.15	0.55
1:H:85:GLN:NE2	1:H:497:GLN:HB3	2.17	0.55
1:I:85:GLN:NE2	1:I:497:GLN:HB3	2.17	0.55
1:J:153:ILE:HG13	1:J:154:ALA:N	2.22	0.55
1:J:515:VAL:HG22	1:J:517:ALA:HA	1.89	0.55
1:K:18:ARG:O	1:K:18:ARG:HG2	2.06	0.55
1:K:83:LYS:HA	1:K:86:GLU:CD	2.31	0.55
1:K:340:ALA:O	1:K:357:GLU:HG3	2.07	0.55
1:K:431:ARG:HE	1:K:432:ALA:N	2.04	0.55
1:L:170:LEU:HD23	1:L:171:ALA:H	1.71	0.55
1:L:210:LYS:HG3	1:L:211:GLY:N	2.22	0.55
1:L:238:ALA:O	1:L:289:GLY:HA2	2.07	0.55
1:L:253:THR:CA	1:M:250:ILE:HG23	2.36	0.55
1:M:49:VAL:H	1:N:519:GLU:CD	2.15	0.55
1:N:345:GLU:HB2	1:N:355:PHE:HZ	1.72	0.55
1:N:433:PHE:CE2	1:N:437:LEU:HG	2.41	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:462:ALA:O	1:N:466:ASN:HB3	2.06	0.55
1:O:119:ILE:HD13	1:O:425:ARG:HB2	1.87	0.55
1:O:520:LYS:CD	1:O:520:LYS:N	2.70	0.55
1:A:345:GLU:HB2	1:A:355:PHE:HZ	1.72	0.55
1:A:442:ARG:HH22	1:A:456:LEU:HA	1.71	0.55
1:B:18:ARG:HG2	1:B:18:ARG:O	2.06	0.55
1:B:23:MET:O	1:B:23:MET:HE3	2.06	0.55
1:C:80:GLU:O	1:C:84:THR:HG23	2.07	0.55
1:C:436:ALA:O	1:C:440:ILE:HG12	2.06	0.55
1:F:80:GLU:O	1:F:84:THR:HG23	2.07	0.55
1:F:170:LEU:CG	1:F:171:ALA:N	2.68	0.55
1:F:273:VAL:O	1:F:276:ILE:HG22	2.07	0.55
1:G:153:ILE:HG13	1:G:154:ALA:N	2.22	0.55
1:H:326:ILE:H	1:H:326:ILE:CD1	2.16	0.55
1:H:345:GLU:HB2	1:H:355:PHE:HZ	1.72	0.55
1:I:345:GLU:HB2	1:I:355:PHE:HZ	1.72	0.55
1:I:442:ARG:HH22	1:I:456:LEU:HA	1.71	0.55
1:K:80:GLU:O	1:K:84:THR:HG23	2.07	0.55
1:K:170:LEU:HD23	1:K:171:ALA:H	1.71	0.55
1:K:273:VAL:O	1:K:276:ILE:HG22	2.07	0.55
1:N:23:MET:O	1:N:23:MET:HE3	2.06	0.55
1:N:80:GLU:O	1:N:84:THR:HG23	2.07	0.55
1:N:153:ILE:HG13	1:N:154:ALA:N	2.22	0.55
1:N:436:ALA:O	1:N:440:ILE:HG12	2.06	0.55
1:O:13:LYS:HA	1:O:14:ARG:NH1	2.20	0.55
1:O:80:GLU:O	1:O:84:THR:HG23	2.07	0.55
1:O:179:SER:O	1:O:182:VAL:HG12	2.06	0.55
1:P:236:ASN:CG	1:P:317:LEU:HD22	2.31	0.55
1:A:170:LEU:HD23	1:A:171:ALA:H	1.71	0.55
1:B:80:GLU:O	1:B:84:THR:HG23	2.07	0.55
1:B:519:GLU:CD	1:C:49:VAL:H	2.15	0.55
1:B:520:LYS:CD	1:B:520:LYS:N	2.70	0.55
1:D:80:GLU:O	1:D:84:THR:HG23	2.07	0.55
1:E:238:ALA:O	1:E:289:GLY:HA2	2.07	0.55
1:F:84:THR:HG22	1:G:373:THR:HG21	1.87	0.55
1:G:18:ARG:HG2	1:G:18:ARG:O	2.06	0.55
1:G:345:GLU:HB2	1:G:355:PHE:HZ	1.72	0.55
1:G:514:ASP:OD1	1:H:46:LYS:HA	2.07	0.55
1:H:273:VAL:O	1:H:276:ILE:HG22	2.07	0.55
1:I:61:GLY:HA3	1:I:94:THR:CG2	2.29	0.55
1:I:210:LYS:HG3	1:I:211:GLY:N	2.22	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:273:VAL:O	1:I:276:ILE:HG22	2.07	0.55
1:I:433:PHE:CE2	1:I:437:LEU:HG	2.41	0.55
1:J:23:MET:O	1:J:23:MET:HE3	2.06	0.55
1:J:340:ALA:O	1:J:357:GLU:HG3	2.07	0.55
1:K:210:LYS:HG3	1:K:211:GLY:N	2.22	0.55
1:M:23:MET:O	1:M:23:MET:HE3	2.06	0.55
1:M:46:LYS:HA	1:N:514:ASP:OD1	2.07	0.55
1:M:80:GLU:O	1:M:84:THR:HG23	2.07	0.55
1:M:85:GLN:NE2	1:M:497:GLN:HB3	2.17	0.55
1:M:442:ARG:HH22	1:M:456:LEU:HA	1.71	0.55
1:N:49:VAL:H	1:O:519:GLU:CD	2.15	0.55
1:O:23:MET:HE3	1:O:23:MET:O	2.06	0.55
1:O:212:VAL:HG13	1:O:356:VAL:HG22	1.89	0.55
1:O:345:GLU:HB2	1:O:355:PHE:HZ	1.72	0.55
1:A:512:ILE:HD12	1:B:45:ASP:HB3	1.89	0.54
1:A:515:VAL:HG22	1:A:517:ALA:HA	1.89	0.54
1:B:345:GLU:HB2	1:B:355:PHE:HZ	1.72	0.54
1:C:340:ALA:O	1:C:357:GLU:HG3	2.07	0.54
1:C:490:GLU:HA	1:C:492:LEU:N	2.21	0.54
1:D:23:MET:HE3	1:D:23:MET:O	2.06	0.54
1:D:179:SER:O	1:D:182:VAL:HG12	2.06	0.54
1:D:372:THR:HB	1:D:377:ILE:HD13	1.88	0.54
1:D:442:ARG:HH22	1:D:456:LEU:HA	1.71	0.54
1:E:394:THR:O	1:E:399:ARG:HD3	2.07	0.54
1:F:170:LEU:HD23	1:F:171:ALA:H	1.71	0.54
1:F:210:LYS:HG3	1:F:211:GLY:N	2.22	0.54
1:F:345:GLU:HB2	1:F:355:PHE:HZ	1.72	0.54
1:H:210:LYS:HG3	1:H:211:GLY:N	2.22	0.54
1:H:340:ALA:O	1:H:357:GLU:HG3	2.07	0.54
1:H:433:PHE:CE2	1:H:437:LEU:HG	2.41	0.54
1:H:442:ARG:HH22	1:H:456:LEU:HA	1.71	0.54
1:H:515:VAL:HG22	1:H:517:ALA:HA	1.89	0.54
1:I:46:LYS:HA	1:J:514:ASP:OD1	2.07	0.54
1:I:340:ALA:O	1:I:357:GLU:HG3	2.07	0.54
1:I:519:GLU:CD	1:P:49:VAL:H	2.15	0.54
1:J:18:ARG:HG2	1:J:18:ARG:O	2.06	0.54
1:J:237:CYS:HA	1:J:286:CYS:CB	2.32	0.54
1:J:238:ALA:O	1:J:289:GLY:HA2	2.07	0.54
1:J:345:GLU:HB2	1:J:355:PHE:HZ	1.72	0.54
1:J:373:THR:HG21	1:K:84:THR:HG22	1.87	0.54
1:K:373:THR:HG21	1:L:84:THR:HG22	1.87	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:515:VAL:HG22	1:K:517:ALA:HA	1.89	0.54
1:L:18:ARG:O	1:L:18:ARG:HG2	2.06	0.54
1:M:394:THR:O	1:M:399:ARG:HD3	2.06	0.54
1:P:170:LEU:HD23	1:P:171:ALA:H	1.71	0.54
1:A:49:VAL:H	1:H:519:GLU:CD	2.15	0.54
1:A:80:GLU:O	1:A:84:THR:HG23	2.07	0.54
1:A:230:ALA:HB1	1:A:303:ILE:HD13	1.89	0.54
1:A:238:ALA:O	1:A:289:GLY:HA2	2.06	0.54
1:B:179:SER:O	1:B:182:VAL:HG12	2.07	0.54
1:B:230:ALA:HB1	1:B:303:ILE:HD13	1.89	0.54
1:C:514:ASP:OD1	1:D:46:LYS:HA	2.07	0.54
1:E:18:ARG:HG2	1:E:18:ARG:O	2.06	0.54
1:E:84:THR:HG22	1:F:373:THR:HG21	1.87	0.54
1:E:131:ALA:HA	1:E:134:LEU:HD11	1.89	0.54
1:E:515:VAL:HG13	1:E:516:ILE:H	1.73	0.54
1:F:131:ALA:HA	1:F:134:LEU:HD11	1.89	0.54
1:F:515:VAL:HG22	1:F:517:ALA:HA	1.89	0.54
1:G:238:ALA:O	1:G:289:GLY:HA2	2.06	0.54
1:G:340:ALA:O	1:G:357:GLU:HG3	2.07	0.54
1:G:531:GLY:O	1:H:4:GLN:HG3	2.06	0.54
1:H:70:VAL:HG23	1:H:71:GLU:N	2.15	0.54
1:I:326:ILE:H	1:I:326:ILE:CD1	2.16	0.54
1:I:515:VAL:HG22	1:I:517:ALA:HA	1.89	0.54
1:K:212:VAL:HG23	1:K:214:VAL:CG2	2.37	0.54
1:K:345:GLU:HB2	1:K:355:PHE:HZ	1.72	0.54
1:L:131:ALA:HA	1:L:134:LEU:HD11	1.89	0.54
1:L:394:THR:O	1:L:399:ARG:HD3	2.07	0.54
1:L:515:VAL:HG13	1:L:516:ILE:H	1.73	0.54
1:M:220:SER:HB3	1:M:305:ALA:O	2.07	0.54
1:N:340:ALA:O	1:N:357:GLU:HG3	2.07	0.54
1:N:490:GLU:HA	1:N:492:LEU:N	2.21	0.54
1:N:520:LYS:CD	1:N:520:LYS:N	2.70	0.54
1:O:442:ARG:HH22	1:O:456:LEU:HA	1.71	0.54
1:P:18:ARG:HG2	1:P:18:ARG:O	2.06	0.54
1:P:80:GLU:O	1:P:84:THR:HG23	2.07	0.54
1:P:372:THR:HB	1:P:377:ILE:HD13	1.88	0.54
1:P:394:THR:O	1:P:399:ARG:HD3	2.07	0.54
1:P:442:ARG:HH22	1:P:456:LEU:HA	1.71	0.54
1:A:18:ARG:O	1:A:18:ARG:HG2	2.06	0.54
1:A:519:GLU:CD	1:B:49:VAL:H	2.15	0.54
1:C:520:LYS:CD	1:C:520:LYS:N	2.70	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:121:VAL:HB	1:D:507:GLU:CD	2.33	0.54
1:D:237:CYS:HA	1:D:286:CYS:CB	2.32	0.54
1:D:394:THR:O	1:D:399:ARG:HD3	2.06	0.54
1:D:436:ALA:O	1:D:440:ILE:HG12	2.06	0.54
1:E:372:THR:HB	1:E:377:ILE:HD13	1.88	0.54
1:F:212:VAL:HG23	1:F:214:VAL:CG2	2.37	0.54
1:F:329:ILE:HG23	1:F:330:LYS:N	2.20	0.54
1:H:80:GLU:O	1:H:84:THR:HG23	2.07	0.54
1:I:80:GLU:O	1:I:84:THR:HG23	2.07	0.54
1:I:238:ALA:O	1:I:289:GLY:HA2	2.07	0.54
1:K:61:GLY:HA3	1:K:94:THR:CG2	2.29	0.54
1:K:238:ALA:O	1:K:289:GLY:HA2	2.07	0.54
1:K:428:LEU:C	1:K:430:VAL:N	2.66	0.54
1:L:372:THR:HB	1:L:377:ILE:HD13	1.88	0.54
1:M:121:VAL:HB	1:M:507:GLU:CD	2.33	0.54
1:M:179:SER:O	1:M:182:VAL:HG12	2.06	0.54
1:M:372:THR:HB	1:M:377:ILE:HD13	1.88	0.54
1:M:436:ALA:O	1:M:440:ILE:HG12	2.06	0.54
1:P:515:VAL:HG22	1:P:517:ALA:HA	1.89	0.54
1:A:13:LYS:HA	1:A:14:ARG:NH1	2.20	0.54
1:A:394:THR:O	1:A:399:ARG:HD3	2.07	0.54
1:B:20:ALA:CB	1:B:516:ILE:HB	2.38	0.54
1:C:345:GLU:HB2	1:C:355:PHE:CZ	2.43	0.54
1:D:220:SER:HB3	1:D:305:ALA:O	2.07	0.54
1:E:220:SER:HB3	1:E:305:ALA:O	2.06	0.54
1:F:238:ALA:O	1:F:289:GLY:HA2	2.07	0.54
1:F:428:LEU:C	1:F:430:VAL:N	2.66	0.54
1:G:237:CYS:HA	1:G:286:CYS:CB	2.32	0.54
1:G:395:ILE:HD12	1:G:396:GLU:N	2.22	0.54
1:G:515:VAL:HG13	1:G:516:ILE:H	1.73	0.54
1:H:61:GLY:HA3	1:H:94:THR:CG2	2.29	0.54
1:I:4:GLN:HG3	1:J:531:GLY:O	2.06	0.54
1:J:515:VAL:HG13	1:J:516:ILE:H	1.73	0.54
1:K:179:SER:O	1:K:182:VAL:HG12	2.06	0.54
1:L:80:GLU:O	1:L:84:THR:HG23	2.07	0.54
1:L:168:GLU:CB	1:L:170:LEU:HD22	2.32	0.54
1:L:515:VAL:HG22	1:L:517:ALA:HA	1.89	0.54
1:M:20:ALA:O	1:M:23:MET:HB3	2.08	0.54
1:N:345:GLU:HB2	1:N:355:PHE:CZ	2.43	0.54
1:O:49:VAL:H	1:P:519:GLU:CD	2.15	0.54
1:O:230:ALA:HB1	1:O:303:ILE:HD13	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:170:LEU:HG	1:P:171:ALA:N	2.20	0.54
1:A:23:MET:HE3	1:A:23:MET:O	2.06	0.54
1:A:372:THR:HB	1:A:377:ILE:HD13	1.88	0.54
1:B:212:VAL:HG13	1:B:356:VAL:HG22	1.90	0.54
1:B:250:ILE:HG23	1:C:253:THR:CA	2.36	0.54
1:D:20:ALA:O	1:D:23:MET:HB3	2.08	0.54
1:D:515:VAL:HG22	1:D:517:ALA:HA	1.89	0.54
1:E:23:MET:O	1:E:23:MET:HE3	2.06	0.54
1:E:80:GLU:O	1:E:84:THR:HG23	2.07	0.54
1:F:395:ILE:HD12	1:F:396:GLU:N	2.23	0.54
1:G:520:LYS:CD	1:G:520:LYS:N	2.70	0.54
1:H:230:ALA:HB1	1:H:303:ILE:HD13	1.89	0.54
1:H:238:ALA:O	1:H:289:GLY:HA2	2.07	0.54
1:H:515:VAL:HG13	1:H:516:ILE:H	1.72	0.54
1:I:70:VAL:HG23	1:I:71:GLU:N	2.15	0.54
1:J:395:ILE:HD12	1:J:396:GLU:N	2.22	0.54
1:J:520:LYS:CD	1:J:520:LYS:N	2.70	0.54
1:L:220:SER:HB3	1:L:305:ALA:O	2.06	0.54
1:N:515:VAL:HG13	1:N:516:ILE:H	1.72	0.54
1:O:20:ALA:CB	1:O:516:ILE:HB	2.38	0.54
1:P:23:MET:O	1:P:23:MET:HE3	2.06	0.54
1:P:230:ALA:HB1	1:P:303:ILE:HD13	1.89	0.54
1:P:238:ALA:O	1:P:289:GLY:HA2	2.07	0.54
1:B:121:VAL:HB	1:B:507:GLU:CD	2.33	0.54
1:B:431:ARG:HE	1:B:432:ALA:N	2.04	0.54
1:C:515:VAL:HG13	1:C:516:ILE:H	1.73	0.54
1:D:141:GLU:HG3	1:D:142:VAL:N	2.23	0.54
1:D:340:ALA:O	1:D:357:GLU:HG3	2.07	0.54
1:E:144:ALA:CB	1:E:400:ILE:HG13	2.21	0.54
1:E:395:ILE:HD12	1:E:396:GLU:N	2.22	0.54
1:E:515:VAL:HG22	1:E:517:ALA:HA	1.89	0.54
1:F:61:GLY:HA3	1:F:94:THR:CG2	2.29	0.54
1:F:70:VAL:HG23	1:F:71:GLU:N	2.15	0.54
1:F:169:LYS:HZ2	1:F:173:ILE:HD11	1.72	0.54
1:F:179:SER:O	1:F:182:VAL:HG12	2.06	0.54
1:K:395:ILE:HD12	1:K:396:GLU:N	2.23	0.54
1:L:23:MET:HE3	1:L:23:MET:O	2.06	0.54
1:L:395:ILE:HD12	1:L:396:GLU:N	2.22	0.54
1:M:141:GLU:HG3	1:M:142:VAL:N	2.23	0.54
1:M:170:LEU:HD23	1:M:171:ALA:H	1.71	0.54
1:M:237:CYS:HA	1:M:286:CYS:CB	2.32	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:253:THR:CA	1:O:250:ILE:HG23	2.36	0.54
1:O:121:VAL:HB	1:O:507:GLU:CD	2.33	0.54
1:A:141:GLU:HG3	1:A:142:VAL:N	2.23	0.54
1:B:170:LEU:HD23	1:B:171:ALA:H	1.71	0.54
1:E:153:ILE:HG13	1:E:154:ALA:N	2.22	0.54
1:E:442:ARG:HH22	1:E:456:LEU:HA	1.71	0.54
1:F:129:GLN:O	1:F:132:GLN:HG2	2.08	0.54
1:I:230:ALA:HB1	1:I:303:ILE:HD13	1.89	0.54
1:K:129:GLN:O	1:K:132:GLN:HG2	2.08	0.54
1:M:340:ALA:O	1:M:357:GLU:HG3	2.07	0.54
1:M:345:GLU:HB2	1:M:355:PHE:CZ	2.43	0.54
1:M:515:VAL:HG22	1:M:517:ALA:HA	1.89	0.54
1:N:212:VAL:HG13	1:N:356:VAL:HG22	1.89	0.54
1:O:20:ALA:O	1:O:23:MET:HB3	2.08	0.54
1:O:170:LEU:HD23	1:O:171:ALA:H	1.71	0.54
1:O:515:VAL:HG13	1:O:516:ILE:H	1.72	0.54
1:P:141:GLU:HG3	1:P:142:VAL:N	2.23	0.54
1:P:153:ILE:HG13	1:P:154:ALA:N	2.22	0.54
1:A:170:LEU:HG	1:A:171:ALA:N	2.20	0.54
1:A:340:ALA:O	1:A:357:GLU:HG3	2.07	0.54
1:B:154:ALA:HB1	1:B:488:VAL:HG22	1.90	0.54
1:B:340:ALA:O	1:B:357:GLU:HG3	2.07	0.54
1:B:515:VAL:HG22	1:B:517:ALA:HA	1.89	0.54
1:C:20:ALA:O	1:C:23:MET:HB3	2.08	0.54
1:C:170:LEU:HD23	1:C:171:ALA:H	1.71	0.54
1:C:212:VAL:HG13	1:C:356:VAL:HG22	1.89	0.54
1:C:230:ALA:HB1	1:C:303:ILE:HD13	1.89	0.54
1:D:170:LEU:HD23	1:D:171:ALA:H	1.71	0.54
1:D:330:LYS:H	1:D:330:LYS:HD3	1.73	0.54
1:D:345:GLU:HB2	1:D:355:PHE:CZ	2.43	0.54
1:E:168:GLU:CB	1:E:170:LEU:HD22	2.32	0.54
1:F:13:LYS:N	1:F:13:LYS:CD	2.69	0.54
1:F:330:LYS:H	1:F:330:LYS:HD3	1.73	0.54
1:F:520:LYS:CD	1:F:520:LYS:N	2.70	0.54
1:G:141:GLU:HG3	1:G:142:VAL:N	2.23	0.54
1:G:230:ALA:HB1	1:G:303:ILE:HD13	1.89	0.54
1:H:141:GLU:HG3	1:H:142:VAL:N	2.23	0.54
1:I:141:GLU:HG3	1:I:142:VAL:N	2.23	0.54
1:J:141:GLU:HG3	1:J:142:VAL:N	2.23	0.54
1:K:13:LYS:N	1:K:13:LYS:CD	2.69	0.54
1:L:153:ILE:HG13	1:L:154:ALA:N	2.22	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:330:LYS:H	1:M:330:LYS:HD3	1.73	0.54
1:N:170:LEU:HD23	1:N:171:ALA:H	1.71	0.54
1:N:230:ALA:HB1	1:N:303:ILE:HD13	1.89	0.54
1:O:431:ARG:HE	1:O:432:ALA:N	2.04	0.54
1:O:515:VAL:HG22	1:O:517:ALA:HA	1.89	0.54
1:P:129:GLN:O	1:P:132:GLN:HG2	2.08	0.54
1:P:340:ALA:O	1:P:357:GLU:HG3	2.07	0.54
1:A:20:ALA:CB	1:A:516:ILE:HB	2.38	0.54
1:A:20:ALA:O	1:A:23:MET:HB3	2.08	0.54
1:A:129:GLN:O	1:A:132:GLN:HG2	2.08	0.54
1:B:20:ALA:O	1:B:23:MET:HB3	2.08	0.54
1:D:345:GLU:HB2	1:D:355:PHE:HZ	1.72	0.54
1:F:141:GLU:HG3	1:F:142:VAL:N	2.23	0.54
1:H:319:LYS:HG3	1:H:364:ALA:HA	1.90	0.54
1:I:217:GLU:C	1:I:219:VAL:H	2.16	0.54
1:K:330:LYS:H	1:K:330:LYS:HD3	1.73	0.54
1:K:520:LYS:CD	1:K:520:LYS:N	2.70	0.54
1:L:428:LEU:C	1:L:430:VAL:N	2.66	0.54
1:L:442:ARG:HH22	1:L:456:LEU:HA	1.71	0.54
1:N:20:ALA:CB	1:N:516:ILE:HB	2.38	0.54
1:O:46:LYS:HA	1:P:514:ASP:OD1	2.07	0.54
1:O:340:ALA:O	1:O:357:GLU:HG3	2.07	0.54
1:P:20:ALA:CB	1:P:516:ILE:HB	2.38	0.54
1:P:20:ALA:O	1:P:23:MET:HB3	2.08	0.54
1:P:345:GLU:HB2	1:P:355:PHE:CZ	2.43	0.54
1:A:330:LYS:H	1:A:330:LYS:HD3	1.73	0.54
1:A:514:ASP:OD1	1:B:46:LYS:HA	2.07	0.54
1:B:319:LYS:HG3	1:B:364:ALA:HA	1.90	0.54
1:E:20:ALA:CB	1:E:516:ILE:HB	2.38	0.54
1:E:129:GLN:O	1:E:132:GLN:HG2	2.08	0.54
1:E:428:LEU:C	1:E:430:VAL:N	2.66	0.54
1:G:80:GLU:O	1:G:84:THR:HG23	2.07	0.54
1:H:217:GLU:C	1:H:219:VAL:H	2.16	0.54
1:I:236:ASN:HB2	1:I:324:ASN:ND2	2.23	0.54
1:I:319:LYS:HG3	1:I:364:ALA:HA	1.90	0.54
1:J:20:ALA:O	1:J:23:MET:HB3	2.08	0.54
1:J:230:ALA:HB1	1:J:303:ILE:HD13	1.89	0.54
1:J:295:GLN:HA	1:J:298:LEU:HB2	1.90	0.54
1:K:20:ALA:O	1:K:23:MET:HB3	2.08	0.54
1:K:70:VAL:HG23	1:K:71:GLU:N	2.15	0.54
1:K:141:GLU:HG3	1:K:142:VAL:N	2.23	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:20:ALA:CB	1:L:516:ILE:HB	2.38	0.54
1:M:153:ILE:HG13	1:M:154:ALA:N	2.21	0.54
1:M:395:ILE:HD12	1:M:396:GLU:N	2.23	0.54
1:N:20:ALA:O	1:N:23:MET:HB3	2.08	0.54
1:P:395:ILE:HD12	1:P:396:GLU:N	2.22	0.54
1:A:121:VAL:HB	1:A:507:GLU:CD	2.33	0.53
1:A:153:ILE:HG13	1:A:154:ALA:N	2.22	0.53
1:A:345:GLU:HB2	1:A:355:PHE:CZ	2.43	0.53
1:B:141:GLU:HG3	1:B:142:VAL:N	2.23	0.53
1:B:236:ASN:HB2	1:B:324:ASN:ND2	2.23	0.53
1:C:20:ALA:CB	1:C:516:ILE:HB	2.38	0.53
1:D:13:LYS:N	1:D:13:LYS:CD	2.69	0.53
1:D:153:ILE:HG13	1:D:154:ALA:N	2.21	0.53
1:D:395:ILE:HD12	1:D:396:GLU:N	2.23	0.53
1:F:20:ALA:O	1:F:23:MET:HB3	2.08	0.53
1:G:20:ALA:O	1:G:23:MET:HB3	2.08	0.53
1:G:217:GLU:C	1:G:219:VAL:H	2.16	0.53
1:G:295:GLN:HA	1:G:298:LEU:HB2	1.90	0.53
1:H:236:ASN:HB2	1:H:324:ASN:ND2	2.23	0.53
1:I:20:ALA:O	1:I:23:MET:HB3	2.08	0.53
1:I:194:LYS:O	1:I:195:ILE:HB	2.08	0.53
1:I:329:ILE:HG23	1:I:330:LYS:N	2.20	0.53
1:J:217:GLU:C	1:J:219:VAL:H	2.16	0.53
1:K:46:LYS:HA	1:L:514:ASP:OD1	2.07	0.53
1:K:168:GLU:CB	1:K:170:LEU:HD22	2.32	0.53
1:K:212:VAL:HG13	1:K:356:VAL:HG22	1.89	0.53
1:L:129:GLN:O	1:L:132:GLN:HG2	2.08	0.53
1:L:144:ALA:CB	1:L:400:ILE:HG13	2.21	0.53
1:M:212:VAL:HG13	1:M:356:VAL:HG22	1.89	0.53
1:M:515:VAL:HG13	1:M:516:ILE:H	1.72	0.53
1:N:121:VAL:HB	1:N:507:GLU:CD	2.33	0.53
1:O:236:ASN:HB2	1:O:324:ASN:ND2	2.23	0.53
1:O:319:LYS:HG3	1:O:364:ALA:HA	1.90	0.53
1:P:295:GLN:HA	1:P:298:LEU:HB2	1.90	0.53
1:P:330:LYS:H	1:P:330:LYS:HD3	1.73	0.53
1:A:395:ILE:HD12	1:A:396:GLU:N	2.23	0.53
1:B:345:GLU:HB2	1:B:355:PHE:CZ	2.43	0.53
1:F:121:VAL:HB	1:F:507:GLU:CD	2.33	0.53
1:G:216:LYS:HZ2	1:G:352:SER:HB2	1.72	0.53
1:H:295:GLN:HA	1:H:298:LEU:HB2	1.91	0.53
1:H:520:LYS:CD	1:H:520:LYS:N	2.70	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:168:GLU:CB	1:I:170:LEU:HD22	2.32	0.53
1:I:295:GLN:HA	1:I:298:LEU:HB2	1.91	0.53
1:I:520:LYS:CD	1:I:520:LYS:N	2.70	0.53
1:J:80:GLU:O	1:J:84:THR:HG23	2.07	0.53
1:J:194:LYS:O	1:J:195:ILE:HB	2.08	0.53
1:K:121:VAL:HB	1:K:507:GLU:CD	2.33	0.53
1:M:13:LYS:N	1:M:13:LYS:CD	2.69	0.53
1:M:236:ASN:HB2	1:M:324:ASN:ND2	2.23	0.53
1:M:345:GLU:HB2	1:M:355:PHE:HZ	1.72	0.53
1:N:141:GLU:HG3	1:N:142:VAL:N	2.23	0.53
1:P:121:VAL:HB	1:P:507:GLU:CD	2.33	0.53
1:A:258:LEU:HD22	1:H:251:ARG:HE	1.73	0.53
1:B:515:VAL:HG13	1:B:516:ILE:H	1.73	0.53
1:C:121:VAL:HB	1:C:507:GLU:CD	2.33	0.53
1:C:141:GLU:HG3	1:C:142:VAL:N	2.23	0.53
1:D:212:VAL:HG13	1:D:356:VAL:HG22	1.89	0.53
1:E:514:ASP:OD1	1:F:46:LYS:HA	2.07	0.53
1:E:520:LYS:CD	1:E:520:LYS:N	2.70	0.53
1:F:153:ILE:HG13	1:F:154:ALA:N	2.21	0.53
1:F:194:LYS:O	1:F:195:ILE:HB	2.08	0.53
1:F:212:VAL:HG13	1:F:356:VAL:HG22	1.89	0.53
1:F:230:ALA:HB1	1:F:303:ILE:HD13	1.89	0.53
1:G:194:LYS:O	1:G:195:ILE:HB	2.08	0.53
1:G:236:ASN:HB2	1:G:324:ASN:ND2	2.23	0.53
1:H:20:ALA:CB	1:H:516:ILE:HB	2.38	0.53
1:H:20:ALA:O	1:H:23:MET:HB3	2.08	0.53
1:H:194:LYS:O	1:H:195:ILE:HB	2.08	0.53
1:H:198:LYS:O	1:H:370:ARG:HA	2.09	0.53
1:I:131:ALA:HA	1:I:134:LEU:HD11	1.89	0.53
1:I:198:LYS:O	1:I:370:ARG:HA	2.09	0.53
1:I:515:VAL:HG13	1:I:516:ILE:H	1.72	0.53
1:J:168:GLU:CB	1:J:170:LEU:HD22	2.32	0.53
1:K:236:ASN:HB2	1:K:324:ASN:ND2	2.23	0.53
1:L:212:VAL:HG13	1:L:356:VAL:HG22	1.89	0.53
1:M:230:ALA:HB1	1:M:303:ILE:HD13	1.89	0.53
1:O:129:GLN:O	1:O:132:GLN:HG2	2.08	0.53
1:O:141:GLU:HG3	1:O:142:VAL:N	2.23	0.53
1:O:144:ALA:CB	1:O:400:ILE:HG13	2.21	0.53
1:P:13:LYS:HA	1:P:14:ARG:NH1	2.20	0.53
1:P:217:GLU:C	1:P:219:VAL:H	2.16	0.53
1:A:169:LYS:HZ2	1:A:173:ILE:HD11	1.74	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:295:GLN:HA	1:A:298:LEU:HB2	1.91	0.53
1:B:137:THR:HG23	1:B:400:ILE:HG12	1.90	0.53
1:B:168:GLU:CB	1:B:170:LEU:HD22	2.32	0.53
1:B:203:ILE:HG23	1:B:372:THR:HA	1.91	0.53
1:D:236:ASN:HB2	1:D:324:ASN:ND2	2.23	0.53
1:D:515:VAL:HG13	1:D:516:ILE:H	1.72	0.53
1:E:212:VAL:HG13	1:E:356:VAL:HG22	1.89	0.53
1:E:236:ASN:HB2	1:E:324:ASN:ND2	2.23	0.53
1:F:236:ASN:HB2	1:F:324:ASN:ND2	2.23	0.53
1:G:273:VAL:O	1:G:276:ILE:HG22	2.07	0.53
1:G:345:GLU:HB2	1:G:355:PHE:CZ	2.43	0.53
1:H:131:ALA:HA	1:H:134:LEU:HD11	1.89	0.53
1:H:329:ILE:HG23	1:H:330:LYS:N	2.20	0.53
1:H:330:LYS:H	1:H:330:LYS:HD3	1.73	0.53
1:I:20:ALA:CB	1:I:516:ILE:HB	2.38	0.53
1:J:236:ASN:HB2	1:J:324:ASN:ND2	2.23	0.53
1:J:273:VAL:O	1:J:276:ILE:HG22	2.07	0.53
1:K:194:LYS:O	1:K:195:ILE:HB	2.08	0.53
1:M:129:GLN:O	1:M:132:GLN:HG2	2.08	0.53
1:O:170:LEU:HG	1:O:171:ALA:N	2.20	0.53
1:O:258:LEU:HD22	1:P:251:ARG:HE	1.74	0.53
1:O:326:ILE:H	1:O:326:ILE:CD1	2.16	0.53
1:O:395:ILE:HD12	1:O:396:GLU:N	2.23	0.53
1:A:217:GLU:C	1:A:219:VAL:H	2.16	0.53
1:A:428:LEU:C	1:A:430:VAL:N	2.66	0.53
1:B:170:LEU:HG	1:B:171:ALA:N	2.20	0.53
1:B:198:LYS:O	1:B:370:ARG:HA	2.09	0.53
1:D:129:GLN:O	1:D:132:GLN:HG2	2.08	0.53
1:E:20:ALA:O	1:E:23:MET:HB3	2.08	0.53
1:F:168:GLU:CB	1:F:170:LEU:HD22	2.32	0.53
1:H:13:LYS:HA	1:H:14:ARG:NH1	2.20	0.53
1:H:121:VAL:HB	1:H:507:GLU:CD	2.33	0.53
1:H:129:GLN:O	1:H:132:GLN:HG2	2.08	0.53
1:I:121:VAL:HB	1:I:507:GLU:CD	2.33	0.53
1:I:330:LYS:H	1:I:330:LYS:HD3	1.73	0.53
1:I:395:ILE:HD12	1:I:396:GLU:N	2.23	0.53
1:J:345:GLU:HB2	1:J:355:PHE:CZ	2.43	0.53
1:K:153:ILE:HG13	1:K:154:ALA:N	2.21	0.53
1:K:194:LYS:HZ1	1:K:316:LYS:HD2	1.74	0.53
1:K:230:ALA:HB1	1:K:303:ILE:HD13	1.89	0.53
1:K:345:GLU:HB2	1:K:355:PHE:CZ	2.43	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:236:ASN:HB2	1:L:324:ASN:ND2	2.23	0.53
1:N:129:GLN:O	1:N:132:GLN:HG2	2.08	0.53
1:N:258:LEU:HD22	1:O:251:ARG:HE	1.74	0.53
1:O:198:LYS:O	1:O:370:ARG:HA	2.09	0.53
1:P:198:LYS:O	1:P:370:ARG:HA	2.09	0.53
1:B:103:LEU:C	1:B:105:ARG:N	2.67	0.53
1:B:129:GLN:O	1:B:132:GLN:HG2	2.08	0.53
1:B:330:LYS:H	1:B:330:LYS:HD3	1.73	0.53
1:D:20:ALA:CB	1:D:516:ILE:HB	2.38	0.53
1:D:187:LYS:HD3	1:E:347:LYS:CB	2.36	0.53
1:F:345:GLU:HB2	1:F:355:PHE:CZ	2.43	0.53
1:F:516:ILE:HA	1:G:47:MET:HB3	1.91	0.53
1:H:168:GLU:CB	1:H:170:LEU:HD22	2.32	0.53
1:H:428:LEU:C	1:H:430:VAL:N	2.66	0.53
1:I:129:GLN:O	1:I:132:GLN:HG2	2.08	0.53
1:I:203:ILE:HG23	1:I:372:THR:HA	1.91	0.53
1:J:47:MET:HB3	1:K:516:ILE:HA	1.91	0.53
1:K:58:THR:O	1:K:59:ASN:HB2	2.09	0.53
1:L:20:ALA:O	1:L:23:MET:HB3	2.08	0.53
1:M:20:ALA:CB	1:M:516:ILE:HB	2.38	0.53
1:N:203:ILE:HG12	1:N:372:THR:HG23	1.91	0.53
1:N:395:ILE:HD12	1:N:396:GLU:N	2.22	0.53
1:O:154:ALA:HB1	1:O:488:VAL:HG22	1.90	0.53
1:A:203:ILE:HG23	1:A:372:THR:HA	1.91	0.53
1:A:236:ASN:HB2	1:A:324:ASN:ND2	2.23	0.53
1:A:347:LYS:CB	1:H:187:LYS:HD3	2.36	0.53
1:B:58:THR:O	1:B:59:ASN:HB2	2.09	0.53
1:B:203:ILE:HG12	1:B:372:THR:HG23	1.91	0.53
1:B:295:GLN:HA	1:B:298:LEU:HB2	1.90	0.53
1:B:326:ILE:H	1:B:326:ILE:CD1	2.16	0.53
1:C:129:GLN:O	1:C:132:GLN:HG2	2.08	0.53
1:C:154:ALA:HB1	1:C:488:VAL:HG22	1.90	0.53
1:C:203:ILE:HG12	1:C:372:THR:HG23	1.91	0.53
1:C:428:LEU:C	1:C:430:VAL:H	2.17	0.53
1:E:121:VAL:HB	1:E:507:GLU:CD	2.33	0.53
1:F:58:THR:O	1:F:59:ASN:HB2	2.09	0.53
1:G:168:GLU:CB	1:G:170:LEU:HD22	2.32	0.53
1:H:203:ILE:HG23	1:H:372:THR:HA	1.91	0.53
1:H:395:ILE:HD12	1:H:396:GLU:N	2.23	0.53
1:I:258:LEU:HD22	1:J:251:ARG:HE	1.74	0.53
1:J:20:ALA:CB	1:J:516:ILE:HB	2.38	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:154:ALA:HB1	1:J:488:VAL:HG22	1.90	0.53
1:J:330:LYS:H	1:J:330:LYS:HD3	1.73	0.53
1:N:428:LEU:C	1:N:430:VAL:H	2.17	0.53
1:O:168:GLU:CB	1:O:170:LEU:HD22	2.32	0.53
1:O:203:ILE:HG12	1:O:372:THR:HG23	1.91	0.53
1:O:203:ILE:HG23	1:O:372:THR:HA	1.91	0.53
1:O:295:GLN:HA	1:O:298:LEU:HB2	1.91	0.53
1:O:330:LYS:H	1:O:330:LYS:HD3	1.73	0.53
1:O:345:GLU:HB2	1:O:355:PHE:CZ	2.43	0.53
1:A:65:LEU:HD12	1:A:79:ILE:HG12	1.91	0.53
1:A:131:ALA:HA	1:A:134:LEU:HD11	1.89	0.53
1:A:198:LYS:O	1:A:370:ARG:HA	2.09	0.53
1:B:131:ALA:HA	1:B:134:LEU:HD11	1.89	0.53
1:B:147:LYS:HB2	1:B:149:ILE:HG12	1.91	0.53
1:B:251:ARG:HE	1:C:258:LEU:HD22	1.74	0.53
1:B:428:LEU:C	1:B:430:VAL:H	2.17	0.53
1:C:236:ASN:HB2	1:C:324:ASN:ND2	2.23	0.53
1:C:395:ILE:HD12	1:C:396:GLU:N	2.22	0.53
1:F:295:GLN:HA	1:F:298:LEU:HB2	1.91	0.53
1:G:154:ALA:HB1	1:G:488:VAL:HG22	1.90	0.53
1:J:129:GLN:O	1:J:132:GLN:HG2	2.08	0.53
1:J:131:ALA:HA	1:J:134:LEU:HD11	1.89	0.53
1:J:212:VAL:HG13	1:J:356:VAL:HG22	1.89	0.53
1:J:258:LEU:HD22	1:K:251:ARG:HE	1.74	0.53
1:K:20:ALA:CB	1:K:516:ILE:HB	2.38	0.53
1:K:295:GLN:HA	1:K:298:LEU:HB2	1.91	0.53
1:L:121:VAL:HB	1:L:507:GLU:CD	2.33	0.53
1:L:347:LYS:CB	1:M:187:LYS:HD3	2.36	0.53
1:M:258:LEU:HD22	1:N:251:ARG:HE	1.74	0.53
1:M:428:LEU:C	1:M:430:VAL:N	2.66	0.53
1:N:147:LYS:HB2	1:N:149:ILE:HG12	1.91	0.53
1:N:154:ALA:HB1	1:N:488:VAL:HG22	1.90	0.53
1:N:347:LYS:CB	1:O:187:LYS:HD3	2.36	0.53
1:O:58:THR:O	1:O:59:ASN:HB2	2.09	0.53
1:O:131:ALA:HA	1:O:134:LEU:HD11	1.89	0.53
1:O:428:LEU:C	1:O:430:VAL:H	2.17	0.53
1:P:428:LEU:C	1:P:430:VAL:N	2.66	0.53
1:A:103:LEU:C	1:A:105:ARG:N	2.66	0.53
1:B:187:LYS:HD3	1:C:347:LYS:CB	2.36	0.53
1:C:65:LEU:HD12	1:C:79:ILE:HG12	1.91	0.53
1:C:147:LYS:HB2	1:C:149:ILE:HG12	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:295:GLN:HA	1:C:298:LEU:HB2	1.90	0.53
1:D:520:LYS:CD	1:D:520:LYS:N	2.70	0.53
1:E:141:GLU:HG3	1:E:142:VAL:N	2.23	0.53
1:F:13:LYS:HA	1:F:14:ARG:NH1	2.20	0.53
1:F:20:ALA:CB	1:F:516:ILE:HB	2.38	0.53
1:F:103:LEU:C	1:F:105:ARG:N	2.67	0.53
1:F:105:ARG:HD2	1:F:106:LYS:N	2.24	0.53
1:F:217:GLU:C	1:F:219:VAL:H	2.16	0.53
1:G:20:ALA:CB	1:G:516:ILE:HB	2.38	0.53
1:G:129:GLN:O	1:G:132:GLN:HG2	2.08	0.53
1:G:198:LYS:O	1:G:370:ARG:HA	2.09	0.53
1:G:330:LYS:H	1:G:330:LYS:HD3	1.73	0.53
1:H:169:LYS:HZ2	1:H:173:ILE:HD11	1.73	0.53
1:I:251:ARG:HE	1:P:258:LEU:HD22	1.74	0.53
1:I:287:GLN:H	1:I:287:GLN:CD	2.17	0.53
1:I:428:LEU:C	1:I:430:VAL:N	2.66	0.53
1:K:103:LEU:C	1:K:105:ARG:N	2.67	0.53
1:K:105:ARG:HD2	1:K:106:LYS:N	2.24	0.53
1:K:154:ALA:HB1	1:K:488:VAL:HG22	1.90	0.53
1:K:515:VAL:HG13	1:K:516:ILE:H	1.72	0.53
1:L:258:LEU:HD22	1:M:251:ARG:HE	1.74	0.53
1:L:319:LYS:HG3	1:L:364:ALA:HA	1.90	0.53
1:M:520:LYS:CD	1:M:520:LYS:N	2.70	0.53
1:N:65:LEU:HD12	1:N:79:ILE:HG12	1.91	0.53
1:N:236:ASN:HB2	1:N:324:ASN:ND2	2.23	0.53
1:O:103:LEU:C	1:O:105:ARG:N	2.67	0.53
1:P:65:LEU:HD12	1:P:79:ILE:HG12	1.91	0.53
1:P:203:ILE:HG23	1:P:372:THR:HA	1.91	0.53
1:A:58:THR:O	1:A:59:ASN:HB2	2.09	0.53
1:A:216:LYS:HZ2	1:A:352:SER:HB2	1.73	0.53
1:C:170:LEU:HG	1:C:171:ALA:N	2.20	0.53
1:C:251:ARG:HE	1:D:258:LEU:HD22	1.74	0.53
1:D:251:ARG:HE	1:E:258:LEU:HD22	1.74	0.53
1:D:428:LEU:C	1:D:430:VAL:N	2.66	0.53
1:E:105:ARG:HD2	1:E:106:LYS:N	2.24	0.53
1:E:319:LYS:HG3	1:E:364:ALA:HA	1.90	0.53
1:F:154:ALA:HB1	1:F:488:VAL:HG22	1.90	0.53
1:G:13:LYS:HA	1:G:14:ARG:NH1	2.20	0.53
1:G:103:LEU:C	1:G:105:ARG:N	2.67	0.53
1:G:131:ALA:HA	1:G:134:LEU:HD11	1.89	0.53
1:G:212:VAL:HG13	1:G:356:VAL:HG22	1.89	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:516:ILE:HA	1:H:47:MET:HB3	1.91	0.53
1:H:60:ASP:HB2	1:H:63:THR:CG2	2.40	0.53
1:H:287:GLN:H	1:H:287:GLN:CD	2.17	0.53
1:I:13:LYS:HA	1:I:14:ARG:NH1	2.20	0.53
1:J:58:THR:O	1:J:59:ASN:HB2	2.09	0.53
1:J:198:LYS:O	1:J:370:ARG:HA	2.09	0.53
1:L:105:ARG:HD2	1:L:106:LYS:N	2.24	0.53
1:L:141:GLU:HG3	1:L:142:VAL:N	2.23	0.53
1:M:131:ALA:HA	1:M:134:LEU:HD11	1.89	0.53
1:N:103:LEU:HB2	1:N:436:ALA:CB	2.39	0.53
1:N:170:LEU:HG	1:N:171:ALA:N	2.20	0.53
1:N:295:GLN:HA	1:N:298:LEU:HB2	1.90	0.53
1:O:47:MET:HB3	1:P:516:ILE:HA	1.91	0.53
1:P:58:THR:O	1:P:59:ASN:HB2	2.09	0.53
1:P:203:ILE:HG12	1:P:372:THR:HG23	1.91	0.53
1:P:236:ASN:HB2	1:P:324:ASN:ND2	2.23	0.53
1:A:203:ILE:HG12	1:A:372:THR:HG23	1.91	0.52
1:B:60:ASP:HB2	1:B:63:THR:CG2	2.39	0.52
1:C:103:LEU:HB2	1:C:436:ALA:CB	2.40	0.52
1:D:319:LYS:HG3	1:D:364:ALA:HA	1.90	0.52
1:D:428:LEU:C	1:D:430:VAL:H	2.17	0.52
1:E:203:ILE:HG12	1:E:372:THR:HG23	1.91	0.52
1:G:58:THR:O	1:G:59:ASN:HB2	2.09	0.52
1:G:213:LEU:HG	1:G:368:LEU:CD1	2.32	0.52
1:H:345:GLU:HB2	1:H:355:PHE:CZ	2.43	0.52
1:I:60:ASP:HB2	1:I:63:THR:CG2	2.40	0.52
1:I:187:LYS:HD3	1:P:347:LYS:CB	2.36	0.52
1:I:345:GLU:HB2	1:I:355:PHE:CZ	2.43	0.52
1:I:516:ILE:HA	1:P:47:MET:HB3	1.91	0.52
1:K:168:GLU:C	1:K:170:LEU:N	2.67	0.52
1:K:217:GLU:C	1:K:219:VAL:H	2.16	0.52
1:M:203:ILE:HG12	1:M:372:THR:HG23	1.91	0.52
1:M:319:LYS:HG3	1:M:364:ALA:HA	1.90	0.52
1:M:428:LEU:C	1:M:430:VAL:H	2.17	0.52
1:N:103:LEU:C	1:N:105:ARG:N	2.67	0.52
1:N:168:GLU:CB	1:N:170:LEU:HD22	2.32	0.52
1:O:147:LYS:HB2	1:O:149:ILE:HG12	1.92	0.52
1:O:254:ASP:CG	1:O:255:PRO:HD2	2.34	0.52
1:P:168:GLU:CB	1:P:170:LEU:HD22	2.32	0.52
1:C:60:ASP:HB2	1:C:63:THR:CG2	2.40	0.52
1:C:103:LEU:C	1:C:105:ARG:N	2.67	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:60:ASP:HB2	1:D:63:THR:CG2	2.40	0.52
1:D:103:LEU:HB2	1:D:436:ALA:CB	2.39	0.52
1:D:131:ALA:HA	1:D:134:LEU:HD11	1.89	0.52
1:D:194:LYS:HZ1	1:D:316:LYS:HD2	1.74	0.52
1:D:203:ILE:HG12	1:D:372:THR:HG23	1.91	0.52
1:E:187:LYS:HD3	1:F:347:LYS:CB	2.36	0.52
1:F:168:GLU:C	1:F:170:LEU:N	2.67	0.52
1:F:251:ARG:HE	1:G:258:LEU:HD22	1.74	0.52
1:F:515:VAL:HG13	1:F:516:ILE:H	1.72	0.52
1:G:203:ILE:HG23	1:G:372:THR:HA	1.91	0.52
1:H:103:LEU:C	1:H:105:ARG:N	2.67	0.52
1:I:47:MET:HB3	1:J:516:ILE:HA	1.91	0.52
1:I:511:ARG:HG2	1:P:44:MET:SD	2.49	0.52
1:J:103:LEU:C	1:J:105:ARG:N	2.67	0.52
1:J:203:ILE:HG23	1:J:372:THR:HA	1.91	0.52
1:K:13:LYS:HA	1:K:14:ARG:NH1	2.20	0.52
1:L:203:ILE:HG12	1:L:372:THR:HG23	1.91	0.52
1:M:103:LEU:HB2	1:M:436:ALA:CB	2.39	0.52
1:M:147:LYS:HB2	1:M:149:ILE:HG12	1.92	0.52
1:M:170:LEU:CG	1:M:171:ALA:N	2.68	0.52
1:N:44:MET:SD	1:O:511:ARG:HG2	2.49	0.52
1:N:60:ASP:HB2	1:N:63:THR:CG2	2.40	0.52
1:N:203:ILE:HG23	1:N:372:THR:HA	1.91	0.52
1:N:330:LYS:H	1:N:330:LYS:HD3	1.73	0.52
1:O:60:ASP:HB2	1:O:63:THR:CG2	2.40	0.52
1:P:319:LYS:HG3	1:P:364:ALA:HA	1.90	0.52
1:P:515:VAL:HG13	1:P:516:ILE:H	1.73	0.52
1:A:44:MET:SD	1:H:511:ARG:HG2	2.49	0.52
1:A:47:MET:HB3	1:H:516:ILE:HA	1.91	0.52
1:A:168:GLU:CB	1:A:170:LEU:HD22	2.32	0.52
1:A:319:LYS:HG3	1:A:364:ALA:HA	1.90	0.52
1:B:105:ARG:HD2	1:B:106:LYS:N	2.24	0.52
1:B:254:ASP:CG	1:B:255:PRO:HD2	2.35	0.52
1:B:511:ARG:HG2	1:C:44:MET:SD	2.49	0.52
1:C:168:GLU:CB	1:C:170:LEU:HD22	2.32	0.52
1:D:147:LYS:HB2	1:D:149:ILE:HG12	1.92	0.52
1:D:217:GLU:C	1:D:219:VAL:H	2.16	0.52
1:E:60:ASP:HB2	1:E:63:THR:CG2	2.40	0.52
1:E:103:LEU:HB2	1:E:436:ALA:CB	2.40	0.52
1:E:428:LEU:C	1:E:430:VAL:H	2.17	0.52
1:F:60:ASP:HB2	1:F:63:THR:CG2	2.40	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:319:LYS:HG3	1:F:364:ALA:HA	1.90	0.52
1:G:511:ARG:HG2	1:H:44:MET:SD	2.50	0.52
1:J:65:LEU:HD12	1:J:79:ILE:HG12	1.91	0.52
1:K:60:ASP:HB2	1:K:63:THR:CG2	2.40	0.52
1:K:258:LEU:HD22	1:L:251:ARG:HE	1.74	0.52
1:K:347:LYS:CB	1:L:187:LYS:HD3	2.36	0.52
1:L:103:LEU:HB2	1:L:436:ALA:CB	2.40	0.52
1:L:154:ALA:HB1	1:L:488:VAL:HG22	1.90	0.52
1:L:428:LEU:C	1:L:430:VAL:H	2.17	0.52
1:L:520:LYS:CD	1:L:520:LYS:N	2.70	0.52
1:M:60:ASP:HB2	1:M:63:THR:CG2	2.40	0.52
1:M:217:GLU:C	1:M:219:VAL:H	2.16	0.52
1:O:217:GLU:C	1:O:219:VAL:H	2.16	0.52
1:P:103:LEU:C	1:P:105:ARG:N	2.67	0.52
1:A:251:ARG:HE	1:B:258:LEU:HD22	1.75	0.52
1:A:515:VAL:HG13	1:A:516:ILE:H	1.73	0.52
1:A:516:ILE:HA	1:B:47:MET:HB3	1.91	0.52
1:C:203:ILE:HG23	1:C:372:THR:HA	1.91	0.52
1:C:330:LYS:H	1:C:330:LYS:HD3	1.73	0.52
1:D:254:ASP:CG	1:D:255:PRO:HD2	2.34	0.52
1:E:147:LYS:HB2	1:E:149:ILE:HG12	1.91	0.52
1:E:154:ALA:HB1	1:E:488:VAL:HG22	1.90	0.52
1:E:194:LYS:HZ1	1:E:316:LYS:HD2	1.74	0.52
1:E:251:ARG:HE	1:F:258:LEU:HD22	1.74	0.52
1:G:65:LEU:HD12	1:G:79:ILE:HG12	1.91	0.52
1:G:121:VAL:HB	1:G:507:GLU:CD	2.33	0.52
1:H:137:THR:CG2	1:H:401:VAL:HA	2.40	0.52
1:I:44:MET:SD	1:J:511:ARG:HG2	2.50	0.52
1:I:103:LEU:C	1:I:105:ARG:N	2.67	0.52
1:I:154:ALA:HB1	1:I:488:VAL:HG22	1.90	0.52
1:J:13:LYS:HA	1:J:14:ARG:NH1	2.20	0.52
1:J:287:GLN:CD	1:J:287:GLN:H	2.18	0.52
1:K:47:MET:HB3	1:L:516:ILE:HA	1.91	0.52
1:K:319:LYS:HG3	1:K:364:ALA:HA	1.90	0.52
1:K:386:ASP:O	1:K:390:VAL:HG13	2.10	0.52
1:L:60:ASP:HB2	1:L:63:THR:CG2	2.40	0.52
1:L:194:LYS:HZ1	1:L:316:LYS:HD2	1.74	0.52
1:L:345:GLU:HB2	1:L:355:PHE:CZ	2.43	0.52
1:O:105:ARG:HD2	1:O:106:LYS:N	2.24	0.52
1:O:428:LEU:C	1:O:430:VAL:N	2.66	0.52
1:A:105:ARG:HD2	1:A:106:LYS:N	2.24	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:147:LYS:HB2	1:A:149:ILE:HG12	1.91	0.52
1:B:103:LEU:HB2	1:B:436:ALA:CB	2.39	0.52
1:C:194:LYS:O	1:C:195:ILE:HB	2.08	0.52
1:D:170:LEU:CG	1:D:171:ALA:N	2.68	0.52
1:D:511:ARG:HG2	1:E:44:MET:SD	2.49	0.52
1:E:58:THR:O	1:E:59:ASN:HB2	2.09	0.52
1:E:295:GLN:HA	1:E:298:LEU:HB2	1.90	0.52
1:E:330:LYS:H	1:E:330:LYS:HD3	1.73	0.52
1:E:511:ARG:HG2	1:F:44:MET:SD	2.50	0.52
1:E:516:ILE:HA	1:F:47:MET:HB3	1.91	0.52
1:F:287:GLN:H	1:F:287:GLN:CD	2.17	0.52
1:F:386:ASP:O	1:F:390:VAL:HG13	2.10	0.52
1:G:105:ARG:HD2	1:G:106:LYS:N	2.24	0.52
1:G:251:ARG:HE	1:H:258:LEU:HD22	1.74	0.52
1:G:287:GLN:CD	1:G:287:GLN:H	2.18	0.52
1:G:428:LEU:C	1:G:430:VAL:N	2.66	0.52
1:H:154:ALA:HB1	1:H:488:VAL:HG22	1.90	0.52
1:I:137:THR:CG2	1:I:401:VAL:HA	2.40	0.52
1:I:169:LYS:HZ2	1:I:173:ILE:HD11	1.74	0.52
1:J:105:ARG:HD2	1:J:106:LYS:N	2.24	0.52
1:J:121:VAL:HB	1:J:507:GLU:CD	2.33	0.52
1:J:213:LEU:HG	1:J:368:LEU:CD1	2.32	0.52
1:K:44:MET:SD	1:L:511:ARG:HG2	2.50	0.52
1:L:147:LYS:HB2	1:L:149:ILE:HG12	1.91	0.52
1:M:44:MET:SD	1:N:511:ARG:HG2	2.50	0.52
1:M:254:ASP:CG	1:M:255:PRO:HD2	2.34	0.52
1:N:194:LYS:O	1:N:195:ILE:HB	2.08	0.52
1:N:428:LEU:C	1:N:430:VAL:N	2.66	0.52
1:O:44:MET:SD	1:P:511:ARG:HG2	2.50	0.52
1:A:256:ALA:HB2	1:H:261:PHE:CD1	2.45	0.52
1:B:217:GLU:C	1:B:219:VAL:H	2.16	0.52
1:B:428:LEU:C	1:B:430:VAL:N	2.66	0.52
1:C:131:ALA:HA	1:C:134:LEU:HD11	1.89	0.52
1:C:511:ARG:HG2	1:D:44:MET:SD	2.50	0.52
1:D:295:GLN:HA	1:D:298:LEU:HB2	1.91	0.52
1:E:13:LYS:HA	1:E:14:ARG:NH1	2.20	0.52
1:E:345:GLU:HB2	1:E:355:PHE:CZ	2.43	0.52
1:E:386:ASP:O	1:E:390:VAL:HG13	2.10	0.52
1:K:287:GLN:H	1:K:287:GLN:CD	2.17	0.52
1:L:44:MET:SD	1:M:511:ARG:HG2	2.49	0.52
1:L:58:THR:O	1:L:59:ASN:HB2	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:103:LEU:C	1:L:105:ARG:N	2.67	0.52
1:L:386:ASP:O	1:L:390:VAL:HG13	2.10	0.52
1:M:295:GLN:HA	1:M:298:LEU:HB2	1.91	0.52
1:N:131:ALA:HA	1:N:134:LEU:HD11	1.89	0.52
1:P:147:LYS:HB2	1:P:149:ILE:HG12	1.91	0.52
1:P:520:LYS:CD	1:P:520:LYS:N	2.70	0.52
1:A:60:ASP:HB2	1:A:63:THR:CG2	2.39	0.52
1:A:194:LYS:O	1:A:195:ILE:HB	2.08	0.52
1:A:511:ARG:HG2	1:B:44:MET:SD	2.50	0.52
1:A:520:LYS:CD	1:A:520:LYS:N	2.70	0.52
1:B:406:SER:HB2	1:B:409:VAL:CG1	2.40	0.52
1:C:82:ALA:O	1:C:86:GLU:HG3	2.10	0.52
1:C:516:ILE:HA	1:D:47:MET:HB3	1.91	0.52
1:D:103:LEU:C	1:D:105:ARG:N	2.67	0.52
1:D:198:LYS:O	1:D:370:ARG:HA	2.09	0.52
1:E:65:LEU:HD12	1:E:79:ILE:HG12	1.91	0.52
1:E:103:LEU:C	1:E:105:ARG:N	2.67	0.52
1:E:230:ALA:HB1	1:E:303:ILE:HD13	1.89	0.52
1:F:82:ALA:O	1:F:86:GLU:HG3	2.10	0.52
1:F:198:LYS:O	1:F:370:ARG:HA	2.09	0.52
1:F:261:PHE:CD1	1:G:256:ALA:HB2	2.45	0.52
1:G:137:THR:CG2	1:G:401:VAL:HA	2.40	0.52
1:G:386:ASP:O	1:G:390:VAL:HG13	2.10	0.52
1:I:261:PHE:CD1	1:P:256:ALA:HB2	2.45	0.52
1:J:44:MET:SD	1:K:511:ARG:HG2	2.49	0.52
1:J:137:THR:CG2	1:J:401:VAL:HA	2.40	0.52
1:J:319:LYS:HG3	1:J:364:ALA:HA	1.90	0.52
1:J:386:ASP:O	1:J:390:VAL:HG13	2.10	0.52
1:K:82:ALA:O	1:K:86:GLU:HG3	2.10	0.52
1:L:65:LEU:HD12	1:L:79:ILE:HG12	1.91	0.52
1:L:295:GLN:HA	1:L:298:LEU:HB2	1.90	0.52
1:L:330:LYS:H	1:L:330:LYS:HD3	1.73	0.52
1:M:103:LEU:C	1:M:105:ARG:N	2.67	0.52
1:M:170:LEU:HG	1:M:171:ALA:N	2.20	0.52
1:M:198:LYS:O	1:M:370:ARG:HA	2.09	0.52
1:O:103:LEU:HB2	1:O:436:ALA:CB	2.39	0.52
1:P:105:ARG:HD2	1:P:106:LYS:N	2.24	0.52
1:A:82:ALA:O	1:A:86:GLU:HG3	2.10	0.52
1:A:287:GLN:H	1:A:287:GLN:CD	2.18	0.52
1:B:261:PHE:CD1	1:C:256:ALA:HB2	2.45	0.52
1:C:428:LEU:C	1:C:430:VAL:N	2.66	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:194:LYS:O	1:D:195:ILE:HB	2.08	0.52
1:D:406:SER:HB2	1:D:409:VAL:CG1	2.40	0.52
1:F:147:LYS:HB2	1:F:149:ILE:HG12	1.92	0.52
1:G:82:ALA:O	1:G:86:GLU:HG3	2.10	0.52
1:G:144:ALA:HB2	1:G:400:ILE:CG1	2.22	0.52
1:H:65:LEU:HD12	1:H:79:ILE:HG12	1.91	0.52
1:H:254:ASP:CG	1:H:255:PRO:HD2	2.34	0.52
1:I:254:ASP:CG	1:I:255:PRO:HD2	2.34	0.52
1:J:103:LEU:HB2	1:J:436:ALA:CB	2.40	0.52
1:J:256:ALA:HB2	1:K:261:PHE:CD1	2.45	0.52
1:K:103:LEU:HB2	1:K:436:ALA:CB	2.39	0.52
1:K:147:LYS:HB2	1:K:149:ILE:HG12	1.92	0.52
1:K:198:LYS:O	1:K:370:ARG:HA	2.09	0.52
1:N:82:ALA:O	1:N:86:GLU:HG3	2.10	0.52
1:N:256:ALA:HB2	1:O:261:PHE:CD1	2.45	0.52
1:O:406:SER:HB2	1:O:409:VAL:CG1	2.40	0.52
1:P:60:ASP:HB2	1:P:63:THR:CG2	2.40	0.52
1:P:82:ALA:O	1:P:86:GLU:HG3	2.10	0.52
1:P:131:ALA:HA	1:P:134:LEU:HD11	1.89	0.52
1:P:194:LYS:O	1:P:195:ILE:HB	2.08	0.52
1:A:103:LEU:HB2	1:A:436:ALA:CB	2.39	0.52
1:A:428:LEU:C	1:A:430:VAL:H	2.17	0.52
1:B:240:GLU:OE1	1:B:242:LYS:HB3	2.10	0.52
1:C:319:LYS:HG3	1:C:364:ALA:HA	1.90	0.52
1:D:144:ALA:CB	1:D:400:ILE:HG13	2.21	0.52
1:D:386:ASP:O	1:D:390:VAL:HG13	2.10	0.52
1:E:194:LYS:O	1:E:195:ILE:HB	2.08	0.52
1:E:203:ILE:HG23	1:E:372:THR:HA	1.91	0.52
1:E:510:LEU:C	1:E:512:ILE:N	2.67	0.52
1:F:203:ILE:HG12	1:F:372:THR:HG23	1.91	0.52
1:F:511:ARG:HG2	1:G:44:MET:SD	2.49	0.52
1:G:103:LEU:HB2	1:G:436:ALA:CB	2.40	0.52
1:G:319:LYS:HG3	1:G:364:ALA:HA	1.90	0.52
1:H:155:MET:SD	1:H:155:MET:O	2.68	0.52
1:H:168:GLU:C	1:H:170:LEU:N	2.67	0.52
1:H:386:ASP:O	1:H:390:VAL:HG13	2.10	0.52
1:H:406:SER:HB2	1:H:409:VAL:CG1	2.40	0.52
1:I:155:MET:SD	1:I:155:MET:O	2.68	0.52
1:I:168:GLU:C	1:I:170:LEU:N	2.67	0.52
1:I:386:ASP:O	1:I:390:VAL:HG13	2.10	0.52
1:I:406:SER:HB2	1:I:409:VAL:CG1	2.40	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:82:ALA:O	1:J:86:GLU:HG3	2.10	0.52
1:K:203:ILE:HG12	1:K:372:THR:HG23	1.91	0.52
1:L:13:LYS:HA	1:L:14:ARG:NH1	2.20	0.52
1:L:61:GLY:HA3	1:L:94:THR:CG2	2.30	0.52
1:L:198:LYS:O	1:L:370:ARG:HA	2.09	0.52
1:L:203:ILE:HG23	1:L:372:THR:HA	1.91	0.52
1:M:47:MET:HB3	1:N:516:ILE:HA	1.91	0.52
1:M:105:ARG:HD2	1:M:106:LYS:N	2.24	0.52
1:M:154:ALA:HB1	1:M:488:VAL:HG22	1.90	0.52
1:M:194:LYS:O	1:M:195:ILE:HB	2.08	0.52
1:M:406:SER:HB2	1:M:409:VAL:CG1	2.40	0.52
1:N:58:THR:O	1:N:59:ASN:HB2	2.09	0.52
1:N:319:LYS:HG3	1:N:364:ALA:HA	1.90	0.52
1:O:194:LYS:O	1:O:195:ILE:HB	2.08	0.52
1:O:240:GLU:OE1	1:O:242:LYS:HB3	2.10	0.52
1:P:428:LEU:C	1:P:430:VAL:H	2.17	0.52
1:A:4:GLN:HB3	1:A:5:PRO:HD2	1.93	0.52
1:B:194:LYS:O	1:B:195:ILE:HB	2.08	0.52
1:C:58:THR:O	1:C:59:ASN:HB2	2.09	0.52
1:C:105:ARG:HD2	1:C:106:LYS:N	2.24	0.52
1:C:187:LYS:HD3	1:D:347:LYS:CB	2.36	0.52
1:C:411:LEU:HD22	1:C:411:LEU:C	2.35	0.52
1:D:105:ARG:HD2	1:D:106:LYS:N	2.24	0.52
1:D:240:GLU:OE1	1:D:242:LYS:HB3	2.10	0.52
1:D:261:PHE:CD1	1:E:256:ALA:HB2	2.45	0.52
1:E:198:LYS:O	1:E:370:ARG:HA	2.09	0.52
1:F:103:LEU:HB2	1:F:436:ALA:CB	2.39	0.52
1:F:240:GLU:OE1	1:F:242:LYS:HB3	2.10	0.52
1:F:254:ASP:CG	1:F:255:PRO:HD2	2.34	0.52
1:G:155:MET:SD	1:G:155:MET:O	2.68	0.52
1:G:512:ILE:HB	1:H:45:ASP:OD2	2.10	0.52
1:H:203:ILE:HG12	1:H:372:THR:HG23	1.91	0.52
1:I:45:ASP:OD2	1:J:512:ILE:HB	2.10	0.52
1:I:65:LEU:HD12	1:I:79:ILE:HG12	1.91	0.52
1:I:213:LEU:O	1:I:215:ASP:N	2.39	0.52
1:J:155:MET:SD	1:J:155:MET:O	2.68	0.52
1:J:428:LEU:C	1:J:430:VAL:N	2.66	0.52
1:K:240:GLU:OE1	1:K:242:LYS:HB3	2.10	0.52
1:K:254:ASP:CG	1:K:255:PRO:HD2	2.34	0.52
1:K:425:ARG:CG	1:K:426:GLU:N	2.73	0.52
1:L:194:LYS:O	1:L:195:ILE:HB	2.08	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:230:ALA:HB1	1:L:303:ILE:HD13	1.89	0.52
1:L:256:ALA:HB2	1:M:261:PHE:CD1	2.45	0.52
1:L:510:LEU:C	1:L:512:ILE:N	2.67	0.52
1:M:20:ALA:HB1	1:M:516:ILE:CG1	2.39	0.52
1:M:82:ALA:O	1:M:86:GLU:HG3	2.10	0.52
1:M:240:GLU:OE1	1:M:242:LYS:HB3	2.10	0.52
1:M:386:ASP:O	1:M:390:VAL:HG13	2.10	0.52
1:N:198:LYS:O	1:N:370:ARG:HA	2.09	0.52
1:O:82:ALA:O	1:O:86:GLU:HG3	2.10	0.52
1:O:137:THR:CG2	1:O:401:VAL:HA	2.40	0.52
1:P:287:GLN:H	1:P:287:GLN:CD	2.18	0.52
1:A:99:VAL:CB	1:A:440:ILE:HG21	2.40	0.51
1:B:168:GLU:C	1:B:170:LEU:N	2.67	0.51
1:D:20:ALA:HB1	1:D:516:ILE:CG1	2.39	0.51
1:D:82:ALA:O	1:D:86:GLU:HG3	2.10	0.51
1:D:154:ALA:HB1	1:D:488:VAL:HG22	1.90	0.51
1:D:170:LEU:HG	1:D:171:ALA:N	2.20	0.51
1:F:406:SER:HB2	1:F:409:VAL:CG1	2.40	0.51
1:F:411:LEU:HD22	1:F:411:LEU:C	2.36	0.51
1:F:425:ARG:CG	1:F:426:GLU:N	2.73	0.51
1:H:58:THR:O	1:H:59:ASN:HB2	2.09	0.51
1:H:105:ARG:HD2	1:H:106:LYS:N	2.24	0.51
1:H:411:LEU:C	1:H:411:LEU:HD22	2.36	0.51
1:I:105:ARG:HD2	1:I:106:LYS:N	2.24	0.51
1:I:203:ILE:HG12	1:I:372:THR:HG23	1.91	0.51
1:I:411:LEU:HD22	1:I:411:LEU:C	2.36	0.51
1:K:406:SER:HB2	1:K:409:VAL:CG1	2.40	0.51
1:L:170:LEU:HG	1:L:171:ALA:N	2.20	0.51
1:N:105:ARG:HD2	1:N:106:LYS:N	2.24	0.51
1:N:169:LYS:HZ2	1:N:173:ILE:HD11	1.75	0.51
1:N:411:LEU:HD22	1:N:411:LEU:C	2.35	0.51
1:O:45:ASP:OD2	1:P:512:ILE:HB	2.10	0.51
1:O:168:GLU:C	1:O:170:LEU:N	2.67	0.51
1:O:347:LYS:CB	1:P:187:LYS:HD3	2.36	0.51
1:P:240:GLU:OE1	1:P:242:LYS:HB3	2.10	0.51
1:A:45:ASP:OD2	1:H:512:ILE:HB	2.10	0.51
1:A:187:LYS:HD3	1:B:347:LYS:CB	2.36	0.51
1:A:512:ILE:HB	1:B:45:ASP:OD2	2.10	0.51
1:A:520:LYS:HD2	1:B:68:MET:CA	2.40	0.51
1:B:82:ALA:O	1:B:86:GLU:HG3	2.10	0.51
1:B:411:LEU:C	1:B:411:LEU:HD22	2.35	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:512:ILE:HB	1:C:45:ASP:OD2	2.10	0.51
1:B:516:ILE:HA	1:C:47:MET:HB3	1.91	0.51
1:C:87:LYS:O	1:C:88:GLU:HB3	2.10	0.51
1:C:155:MET:SD	1:C:155:MET:O	2.68	0.51
1:C:198:LYS:O	1:C:370:ARG:HA	2.09	0.51
1:D:510:LEU:C	1:D:512:ILE:N	2.67	0.51
1:D:512:ILE:HB	1:E:45:ASP:OD2	2.10	0.51
1:E:82:ALA:O	1:E:86:GLU:HG3	2.10	0.51
1:E:87:LYS:O	1:E:88:GLU:HB3	2.10	0.51
1:E:217:GLU:C	1:E:219:VAL:H	2.16	0.51
1:F:155:MET:SD	1:F:155:MET:O	2.68	0.51
1:G:147:LYS:HB2	1:G:149:ILE:HG12	1.91	0.51
1:G:203:ILE:HG12	1:G:372:THR:HG23	1.91	0.51
1:I:103:LEU:HB2	1:I:436:ALA:CB	2.39	0.51
1:J:60:ASP:HB2	1:J:63:THR:CG2	2.40	0.51
1:J:144:ALA:HB2	1:J:400:ILE:CG1	2.22	0.51
1:J:147:LYS:HB2	1:J:149:ILE:HG12	1.91	0.51
1:J:203:ILE:HG12	1:J:372:THR:HG23	1.91	0.51
1:J:406:SER:HB2	1:J:409:VAL:CG1	2.40	0.51
1:K:411:LEU:HD22	1:K:411:LEU:C	2.36	0.51
1:L:82:ALA:O	1:L:86:GLU:HG3	2.10	0.51
1:L:168:GLU:C	1:L:170:LEU:N	2.67	0.51
1:L:329:ILE:HG23	1:L:330:LYS:N	2.20	0.51
1:L:406:SER:HB2	1:L:409:VAL:CG1	2.40	0.51
1:M:137:THR:CG2	1:M:401:VAL:HA	2.40	0.51
1:M:347:LYS:CB	1:N:187:LYS:HD3	2.36	0.51
1:M:510:LEU:C	1:M:512:ILE:N	2.67	0.51
1:N:20:ALA:HB1	1:N:516:ILE:CG1	2.39	0.51
1:N:45:ASP:OD2	1:O:512:ILE:HB	2.10	0.51
1:N:155:MET:SD	1:N:155:MET:O	2.68	0.51
1:P:4:GLN:HB3	1:P:5:PRO:HD2	1.93	0.51
1:P:99:VAL:CB	1:P:440:ILE:HG21	2.40	0.51
1:A:240:GLU:OE1	1:A:242:LYS:HB3	2.10	0.51
1:B:394:THR:O	1:B:399:ARG:HD3	2.10	0.51
1:C:287:GLN:H	1:C:287:GLN:CD	2.18	0.51
1:C:512:ILE:HB	1:D:45:ASP:OD2	2.10	0.51
1:D:137:THR:CG2	1:D:401:VAL:HA	2.40	0.51
1:D:155:MET:SD	1:D:155:MET:O	2.68	0.51
1:E:61:GLY:HA3	1:E:94:THR:CG2	2.30	0.51
1:E:155:MET:SD	1:E:155:MET:O	2.68	0.51
1:E:406:SER:HB2	1:E:409:VAL:CG1	2.40	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:4:GLN:HB3	1:F:5:PRO:HD2	1.93	0.51
1:F:203:ILE:HG23	1:F:372:THR:HA	1.91	0.51
1:G:406:SER:HB2	1:G:409:VAL:CG1	2.40	0.51
1:G:428:LEU:C	1:G:430:VAL:H	2.17	0.51
1:G:440:ILE:HA	1:G:443:THR:HG23	1.93	0.51
1:H:103:LEU:HB2	1:H:436:ALA:CB	2.39	0.51
1:H:213:LEU:O	1:H:215:ASP:N	2.39	0.51
1:I:58:THR:O	1:I:59:ASN:HB2	2.09	0.51
1:I:240:GLU:OE1	1:I:242:LYS:HB3	2.10	0.51
1:J:428:LEU:C	1:J:430:VAL:H	2.17	0.51
1:J:440:ILE:HA	1:J:443:THR:HG23	1.93	0.51
1:K:155:MET:SD	1:K:155:MET:O	2.68	0.51
1:L:45:ASP:OD2	1:M:512:ILE:HB	2.10	0.51
1:L:87:LYS:O	1:L:88:GLU:HB3	2.10	0.51
1:L:217:GLU:C	1:L:219:VAL:H	2.16	0.51
1:L:411:LEU:C	1:L:411:LEU:HD22	2.35	0.51
1:M:65:LEU:HD12	1:M:79:ILE:HG12	1.91	0.51
1:N:87:LYS:O	1:N:88:GLU:HB3	2.10	0.51
1:N:287:GLN:H	1:N:287:GLN:CD	2.18	0.51
1:O:65:LEU:HD12	1:O:79:ILE:HG12	1.91	0.51
1:O:411:LEU:C	1:O:411:LEU:HD22	2.36	0.51
1:P:155:MET:SD	1:P:155:MET:O	2.68	0.51
1:A:155:MET:SD	1:A:155:MET:O	2.68	0.51
1:A:425:ARG:CG	1:A:426:GLU:N	2.73	0.51
1:B:99:VAL:CB	1:B:440:ILE:HG21	2.40	0.51
1:C:20:ALA:HB1	1:C:516:ILE:CG1	2.39	0.51
1:D:99:VAL:CB	1:D:440:ILE:HG21	2.40	0.51
1:D:168:GLU:CB	1:D:170:LEU:HD22	2.32	0.51
1:E:137:THR:CG2	1:E:401:VAL:HA	2.40	0.51
1:E:170:LEU:HG	1:E:171:ALA:N	2.20	0.51
1:E:254:ASP:CG	1:E:255:PRO:HD2	2.36	0.51
1:E:411:LEU:C	1:E:411:LEU:HD22	2.35	0.51
1:E:440:ILE:HA	1:E:443:THR:HG23	1.93	0.51
1:F:137:THR:CG2	1:F:401:VAL:HA	2.40	0.51
1:F:187:LYS:HD3	1:G:347:LYS:CB	2.36	0.51
1:G:60:ASP:HB2	1:G:63:THR:CG2	2.40	0.51
1:H:240:GLU:OE1	1:H:242:LYS:HB3	2.10	0.51
1:I:369:ILE:HG13	1:I:370:ARG:H	1.76	0.51
1:I:512:ILE:HB	1:P:45:ASP:OD2	2.10	0.51
1:J:4:GLN:HB3	1:J:5:PRO:HD2	1.93	0.51
1:J:347:LYS:CB	1:K:187:LYS:HD3	2.36	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:4:GLN:HB3	1:K:5:PRO:HD2	1.93	0.51
1:K:20:ALA:HB1	1:K:516:ILE:CG1	2.39	0.51
1:K:203:ILE:HG23	1:K:372:THR:HA	1.91	0.51
1:L:20:ALA:HB1	1:L:516:ILE:CG1	2.39	0.51
1:L:47:MET:HB3	1:M:516:ILE:HA	1.91	0.51
1:L:137:THR:CG2	1:L:401:VAL:HA	2.40	0.51
1:L:155:MET:SD	1:L:155:MET:O	2.68	0.51
1:L:254:ASP:CG	1:L:255:PRO:HD2	2.36	0.51
1:L:440:ILE:HA	1:L:443:THR:HG23	1.93	0.51
1:M:45:ASP:OD2	1:N:512:ILE:HB	2.10	0.51
1:M:99:VAL:CB	1:M:440:ILE:HG21	2.40	0.51
1:M:155:MET:SD	1:M:155:MET:O	2.68	0.51
1:M:203:ILE:HG23	1:M:372:THR:HA	1.91	0.51
1:M:287:GLN:CD	1:M:287:GLN:H	2.17	0.51
1:N:47:MET:HB3	1:O:516:ILE:HA	1.91	0.51
1:N:254:ASP:CG	1:N:255:PRO:HD2	2.36	0.51
1:O:68:MET:CA	1:P:520:LYS:HD2	2.40	0.51
1:O:155:MET:SD	1:O:155:MET:O	2.68	0.51
1:O:287:GLN:CD	1:O:287:GLN:H	2.17	0.51
1:P:425:ARG:CG	1:P:426:GLU:N	2.73	0.51
1:A:246:THR:C	1:A:248:ALA:N	2.63	0.51
1:B:480:VAL:CG1	1:B:481:GLU:H	2.17	0.51
1:D:58:THR:O	1:D:59:ASN:HB2	2.09	0.51
1:D:65:LEU:HD12	1:D:79:ILE:HG12	1.91	0.51
1:D:203:ILE:HG23	1:D:372:THR:HA	1.91	0.51
1:D:287:GLN:CD	1:D:287:GLN:H	2.17	0.51
1:D:516:ILE:HA	1:E:47:MET:HB3	1.91	0.51
1:E:168:GLU:C	1:E:170:LEU:N	2.67	0.51
1:E:512:ILE:HB	1:F:45:ASP:OD2	2.10	0.51
1:F:20:ALA:HB1	1:F:516:ILE:CG1	2.39	0.51
1:F:440:ILE:HA	1:F:443:THR:HG23	1.93	0.51
1:G:4:GLN:HB3	1:G:5:PRO:HD2	1.93	0.51
1:G:369:ILE:HG13	1:G:370:ARG:H	1.76	0.51
1:H:82:ALA:O	1:H:86:GLU:HG3	2.10	0.51
1:H:99:VAL:CB	1:H:440:ILE:HG21	2.40	0.51
1:H:369:ILE:HG13	1:H:370:ARG:H	1.76	0.51
1:I:99:VAL:CB	1:I:440:ILE:HG21	2.40	0.51
1:I:147:LYS:HB2	1:I:149:ILE:HG12	1.92	0.51
1:I:246:THR:C	1:I:248:ALA:N	2.62	0.51
1:I:440:ILE:HA	1:I:443:THR:HG23	1.93	0.51
1:J:369:ILE:HG13	1:J:370:ARG:H	1.76	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:137:THR:CG2	1:K:401:VAL:HA	2.40	0.51
1:K:440:ILE:HA	1:K:443:THR:HG23	1.93	0.51
1:M:144:ALA:CB	1:M:400:ILE:HG13	2.21	0.51
1:M:168:GLU:CB	1:M:170:LEU:HD22	2.32	0.51
1:N:217:GLU:C	1:N:219:VAL:H	2.16	0.51
1:N:406:SER:HB2	1:N:409:VAL:CG1	2.40	0.51
1:O:78:LEU:O	1:O:81:VAL:HG12	2.11	0.51
1:O:99:VAL:CB	1:O:440:ILE:HG21	2.40	0.51
1:O:329:ILE:HG23	1:O:330:LYS:N	2.20	0.51
1:P:78:LEU:O	1:P:81:VAL:HG12	2.11	0.51
1:P:103:LEU:HB2	1:P:436:ALA:CB	2.40	0.51
1:P:154:ALA:HB1	1:P:488:VAL:HG22	1.90	0.51
1:P:254:ASP:CG	1:P:255:PRO:HD2	2.36	0.51
1:P:406:SER:HB2	1:P:409:VAL:CG1	2.40	0.51
1:P:411:LEU:C	1:P:411:LEU:HD22	2.35	0.51
1:A:119:ILE:HG21	1:A:425:ARG:CB	2.41	0.51
1:A:254:ASP:CG	1:A:255:PRO:HD2	2.36	0.51
1:A:374:GLU:HA	1:A:377:ILE:HG22	1.93	0.51
1:B:45:ASP:C	1:B:46:LYS:HD3	2.36	0.51
1:B:65:LEU:HD12	1:B:79:ILE:HG12	1.91	0.51
1:B:78:LEU:O	1:B:81:VAL:HG12	2.11	0.51
1:B:287:GLN:CD	1:B:287:GLN:H	2.18	0.51
1:C:406:SER:HB2	1:C:409:VAL:CG1	2.40	0.51
1:E:20:ALA:HB1	1:E:516:ILE:CG1	2.39	0.51
1:E:287:GLN:CD	1:E:287:GLN:H	2.18	0.51
1:E:329:ILE:HG23	1:E:330:LYS:N	2.20	0.51
1:H:147:LYS:HB2	1:H:149:ILE:HG12	1.92	0.51
1:H:440:ILE:HA	1:H:443:THR:HG23	1.93	0.51
1:I:82:ALA:O	1:I:86:GLU:HG3	2.10	0.51
1:K:45:ASP:OD2	1:L:512:ILE:HB	2.10	0.51
1:L:48:LEU:CD1	1:L:48:LEU:N	2.72	0.51
1:M:58:THR:O	1:M:59:ASN:HB2	2.09	0.51
1:M:119:ILE:HG21	1:M:425:ARG:CB	2.41	0.51
1:O:45:ASP:C	1:O:46:LYS:HD3	2.36	0.51
1:P:137:THR:CG2	1:P:401:VAL:HA	2.40	0.51
1:P:206:THR:O	1:P:369:ILE:HG21	2.11	0.51
1:A:78:LEU:O	1:A:81:VAL:HG12	2.11	0.51
1:A:154:ALA:HB1	1:A:488:VAL:HG22	1.91	0.51
1:A:206:THR:O	1:A:369:ILE:HG21	2.11	0.51
1:A:411:LEU:HD22	1:A:411:LEU:C	2.36	0.51
1:A:440:ILE:HA	1:A:443:THR:HG23	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:20:ALA:HB1	1:B:516:ILE:CG1	2.39	0.51
1:B:394:THR:HG22	1:B:399:ARG:HD3	1.92	0.51
1:C:137:THR:CG2	1:C:401:VAL:HA	2.40	0.51
1:C:206:THR:O	1:C:369:ILE:HG21	2.11	0.51
1:C:217:GLU:C	1:C:219:VAL:H	2.16	0.51
1:C:254:ASP:CG	1:C:255:PRO:HD2	2.36	0.51
1:D:119:ILE:HG21	1:D:425:ARG:CB	2.41	0.51
1:G:144:ALA:CB	1:G:400:ILE:HG13	2.21	0.51
1:G:169:LYS:HZ2	1:G:173:ILE:HD11	1.76	0.51
1:H:87:LYS:O	1:H:88:GLU:HB3	2.10	0.51
1:H:209:ILE:O	1:H:209:ILE:HG23	2.11	0.51
1:I:20:ALA:HB1	1:I:516:ILE:CG1	2.39	0.51
1:I:209:ILE:HG23	1:I:209:ILE:O	2.11	0.51
1:I:212:VAL:HG13	1:I:356:VAL:HG22	1.89	0.51
1:K:119:ILE:HG21	1:K:425:ARG:CB	2.41	0.51
1:N:4:GLN:HB3	1:N:5:PRO:HD2	1.93	0.51
1:N:206:THR:O	1:N:369:ILE:HG21	2.11	0.51
1:O:20:ALA:HB1	1:O:516:ILE:CG1	2.39	0.51
1:P:45:ASP:C	1:P:46:LYS:HD3	2.36	0.51
1:P:369:ILE:HG13	1:P:370:ARG:H	1.76	0.51
1:P:374:GLU:HA	1:P:377:ILE:HG22	1.93	0.51
1:A:386:ASP:O	1:A:390:VAL:HG13	2.10	0.51
1:B:61:GLY:O	1:B:64:ILE:HG22	2.11	0.51
1:B:329:ILE:HG23	1:B:330:LYS:N	2.20	0.51
1:C:4:GLN:HB3	1:C:5:PRO:HD2	1.93	0.51
1:C:45:ASP:C	1:C:46:LYS:HD3	2.36	0.51
1:C:240:GLU:OE1	1:C:242:LYS:HB3	2.10	0.51
1:D:442:ARG:NH1	1:D:455:ILE:HG13	2.26	0.51
1:E:48:LEU:CD1	1:E:48:LEU:N	2.72	0.51
1:F:65:LEU:HD12	1:F:79:ILE:HG12	1.91	0.51
1:F:119:ILE:HG21	1:F:425:ARG:CB	2.41	0.51
1:F:307:ARG:HG2	1:F:307:ARG:NH1	2.26	0.51
1:G:119:ILE:HG21	1:G:425:ARG:CB	2.41	0.51
1:G:374:GLU:HA	1:G:377:ILE:HG22	1.93	0.51
1:G:411:LEU:C	1:G:411:LEU:HD22	2.35	0.51
1:I:87:LYS:O	1:I:88:GLU:HB3	2.10	0.51
1:I:119:ILE:HG21	1:I:425:ARG:CB	2.41	0.51
1:I:428:LEU:C	1:I:430:VAL:H	2.17	0.51
1:J:374:GLU:HA	1:J:377:ILE:HG22	1.93	0.51
1:L:4:GLN:HB3	1:L:5:PRO:HD2	1.93	0.51
1:L:119:ILE:HG21	1:L:425:ARG:CB	2.41	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:240:GLU:OE1	1:L:242:LYS:HB3	2.10	0.51
1:M:87:LYS:O	1:M:88:GLU:HB3	2.10	0.51
1:N:45:ASP:C	1:N:46:LYS:HD3	2.36	0.51
1:N:68:MET:CA	1:O:520:LYS:HD2	2.40	0.51
1:N:78:LEU:O	1:N:81:VAL:HG12	2.11	0.51
1:N:119:ILE:HG21	1:N:425:ARG:CB	2.41	0.51
1:N:240:GLU:OE1	1:N:242:LYS:HB3	2.10	0.51
1:P:386:ASP:O	1:P:390:VAL:HG13	2.10	0.51
1:P:440:ILE:HA	1:P:443:THR:HG23	1.93	0.51
1:A:137:THR:CG2	1:A:401:VAL:HA	2.40	0.51
1:A:406:SER:HB2	1:A:409:VAL:CG1	2.41	0.51
1:B:158:ILE:HG13	1:B:159:THR:N	2.26	0.51
1:B:520:LYS:HD2	1:C:68:MET:CA	2.40	0.51
1:C:119:ILE:HG21	1:C:425:ARG:CB	2.41	0.51
1:C:209:ILE:O	1:C:209:ILE:HG23	2.11	0.51
1:D:319:LYS:CA	1:D:364:ALA:HB1	2.41	0.51
1:E:4:GLN:HB3	1:E:5:PRO:HD2	1.93	0.51
1:E:45:ASP:C	1:E:46:LYS:HD3	2.36	0.51
1:E:119:ILE:HG21	1:E:425:ARG:CB	2.41	0.51
1:E:240:GLU:OE1	1:E:242:LYS:HB3	2.10	0.51
1:F:267:LYS:CD	1:F:270:LYS:HE2	2.41	0.51
1:H:20:ALA:HB1	1:H:516:ILE:CG1	2.39	0.51
1:H:119:ILE:HG21	1:H:425:ARG:CB	2.41	0.51
1:H:206:THR:O	1:H:369:ILE:HG21	2.11	0.51
1:I:48:LEU:CD1	1:I:48:LEU:N	2.72	0.51
1:I:78:LEU:O	1:I:81:VAL:HG12	2.11	0.51
1:I:216:LYS:HZ2	1:I:352:SER:HB2	1.75	0.51
1:I:442:ARG:NH1	1:I:455:ILE:HG13	2.26	0.51
1:J:119:ILE:HG21	1:J:425:ARG:CB	2.41	0.51
1:K:267:LYS:CD	1:K:270:LYS:HE2	2.41	0.51
1:K:307:ARG:HG2	1:K:307:ARG:NH1	2.26	0.51
1:M:45:ASP:C	1:M:46:LYS:HD3	2.36	0.51
1:M:319:LYS:CA	1:M:364:ALA:HB1	2.41	0.51
1:M:442:ARG:NH1	1:M:455:ILE:HG13	2.26	0.51
1:N:137:THR:CG2	1:N:401:VAL:HA	2.40	0.51
1:N:209:ILE:HG23	1:N:209:ILE:O	2.11	0.51
1:O:61:GLY:O	1:O:64:ILE:HG22	2.11	0.51
1:P:119:ILE:HG21	1:P:425:ARG:CB	2.41	0.51
1:A:45:ASP:C	1:A:46:LYS:HD3	2.36	0.51
1:A:267:LYS:CD	1:A:270:LYS:HE2	2.41	0.51
1:B:119:ILE:HG21	1:B:425:ARG:CB	2.41	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:155:MET:SD	1:B:155:MET:O	2.69	0.51
1:B:386:ASP:O	1:B:390:VAL:HG13	2.10	0.51
1:C:78:LEU:O	1:C:81:VAL:HG12	2.11	0.51
1:D:45:ASP:C	1:D:46:LYS:HD3	2.36	0.51
1:D:87:LYS:O	1:D:88:GLU:HB3	2.10	0.51
1:D:411:LEU:C	1:D:411:LEU:HD22	2.36	0.51
1:E:78:LEU:O	1:E:81:VAL:HG12	2.11	0.51
1:E:99:VAL:CB	1:E:440:ILE:HG21	2.40	0.51
1:E:512:ILE:HA	1:F:45:ASP:HB3	1.93	0.51
1:F:78:LEU:O	1:F:81:VAL:HG12	2.11	0.51
1:F:99:VAL:CB	1:F:440:ILE:HG21	2.40	0.51
1:G:326:ILE:H	1:G:326:ILE:CD1	2.16	0.51
1:H:48:LEU:CD1	1:H:48:LEU:N	2.72	0.51
1:H:78:LEU:O	1:H:81:VAL:HG12	2.11	0.51
1:H:212:VAL:HG13	1:H:356:VAL:HG22	1.89	0.51
1:H:319:LYS:CA	1:H:364:ALA:HB1	2.41	0.51
1:H:428:LEU:C	1:H:430:VAL:H	2.17	0.51
1:H:442:ARG:NH1	1:H:455:ILE:HG13	2.26	0.51
1:I:111:LEU:HG	1:I:114:ASN:CB	2.40	0.51
1:I:206:THR:O	1:I:369:ILE:HG21	2.11	0.51
1:I:425:ARG:CG	1:I:426:GLU:N	2.73	0.51
1:J:411:LEU:C	1:J:411:LEU:HD22	2.35	0.51
1:K:65:LEU:HD12	1:K:79:ILE:HG12	1.91	0.51
1:K:99:VAL:CB	1:K:440:ILE:HG21	2.40	0.51
1:L:45:ASP:C	1:L:46:LYS:HD3	2.36	0.51
1:L:78:LEU:O	1:L:81:VAL:HG12	2.11	0.51
1:L:99:VAL:CB	1:L:440:ILE:HG21	2.40	0.51
1:L:287:GLN:H	1:L:287:GLN:CD	2.18	0.51
1:M:515:VAL:HG22	1:M:517:ALA:N	2.26	0.51
1:O:119:ILE:HG21	1:O:425:ARG:CB	2.41	0.51
1:O:386:ASP:O	1:O:390:VAL:HG13	2.10	0.51
1:O:442:ARG:NH1	1:O:455:ILE:HG13	2.26	0.51
1:O:480:VAL:CG1	1:O:481:GLU:H	2.17	0.51
1:B:41:PRO:HA	1:B:161:LYS:HD3	1.93	0.50
1:B:206:THR:O	1:B:369:ILE:HG21	2.11	0.50
1:B:509:LEU:HD23	1:B:510:LEU:N	2.27	0.50
1:B:520:LYS:CE	1:C:68:MET:H	2.24	0.50
1:C:41:PRO:HA	1:C:161:LYS:HD3	1.94	0.50
1:C:111:LEU:HG	1:C:114:ASN:CB	2.40	0.50
1:D:230:ALA:HB1	1:D:303:ILE:HD13	1.89	0.50
1:D:440:ILE:HA	1:D:443:THR:HG23	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:515:VAL:HG22	1:D:517:ALA:N	2.26	0.50
1:E:480:VAL:CG1	1:E:481:GLU:H	2.17	0.50
1:F:206:THR:O	1:F:369:ILE:HG21	2.11	0.50
1:F:369:ILE:HG13	1:F:370:ARG:H	1.76	0.50
1:G:87:LYS:O	1:G:88:GLU:HB3	2.10	0.50
1:G:254:ASP:CG	1:G:255:PRO:HD2	2.36	0.50
1:G:510:LEU:C	1:G:512:ILE:N	2.67	0.50
1:H:111:LEU:HG	1:H:114:ASN:CB	2.40	0.50
1:H:246:THR:C	1:H:248:ALA:N	2.62	0.50
1:H:425:ARG:CG	1:H:426:GLU:N	2.73	0.50
1:I:45:ASP:C	1:I:46:LYS:HD3	2.36	0.50
1:I:319:LYS:CA	1:I:364:ALA:HB1	2.41	0.50
1:J:45:ASP:OD2	1:K:512:ILE:HB	2.10	0.50
1:J:87:LYS:O	1:J:88:GLU:HB3	2.10	0.50
1:J:206:THR:O	1:J:369:ILE:HG21	2.11	0.50
1:J:254:ASP:CG	1:J:255:PRO:HD2	2.36	0.50
1:J:510:LEU:C	1:J:512:ILE:N	2.67	0.50
1:K:45:ASP:HB3	1:L:512:ILE:HA	1.93	0.50
1:K:78:LEU:O	1:K:81:VAL:HG12	2.11	0.50
1:M:411:LEU:C	1:M:411:LEU:HD22	2.36	0.50
1:M:440:ILE:HA	1:M:443:THR:HG23	1.93	0.50
1:N:111:LEU:HG	1:N:114:ASN:CB	2.40	0.50
1:O:158:ILE:HG13	1:O:159:THR:N	2.27	0.50
1:O:509:LEU:HD23	1:O:510:LEU:N	2.27	0.50
1:P:267:LYS:CD	1:P:270:LYS:HE2	2.41	0.50
1:A:319:LYS:CA	1:A:364:ALA:HB1	2.41	0.50
1:A:369:ILE:HG13	1:A:370:ARG:H	1.76	0.50
1:B:442:ARG:NH1	1:B:455:ILE:HG13	2.27	0.50
1:D:4:GLN:HB3	1:D:5:PRO:HD2	1.93	0.50
1:F:428:LEU:C	1:F:430:VAL:H	2.17	0.50
1:F:512:ILE:HA	1:G:45:ASP:HB3	1.93	0.50
1:G:103:LEU:HD13	1:G:103:LEU:C	2.37	0.50
1:G:206:THR:O	1:G:369:ILE:HG21	2.11	0.50
1:H:45:ASP:C	1:H:46:LYS:HD3	2.36	0.50
1:H:509:LEU:HD23	1:H:510:LEU:N	2.27	0.50
1:I:45:ASP:HB2	1:J:511:ARG:O	2.11	0.50
1:I:307:ARG:HG2	1:I:307:ARG:NH1	2.26	0.50
1:J:45:ASP:HB3	1:K:512:ILE:HA	1.93	0.50
1:J:103:LEU:HD13	1:J:103:LEU:C	2.37	0.50
1:J:144:ALA:CB	1:J:400:ILE:HG13	2.21	0.50
1:J:436:ALA:O	1:J:439:VAL:HG22	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:87:LYS:O	1:K:88:GLU:HB3	2.10	0.50
1:K:206:THR:O	1:K:369:ILE:HG21	2.11	0.50
1:K:319:LYS:CA	1:K:364:ALA:HB1	2.41	0.50
1:K:369:ILE:HG13	1:K:370:ARG:H	1.76	0.50
1:K:428:LEU:C	1:K:430:VAL:H	2.17	0.50
1:N:41:PRO:HA	1:N:161:LYS:HD3	1.94	0.50
1:O:4:GLN:HB3	1:O:5:PRO:HD2	1.93	0.50
1:O:41:PRO:HA	1:O:161:LYS:HD3	1.93	0.50
1:O:45:ASP:HB2	1:P:511:ARG:O	2.11	0.50
1:O:267:LYS:CD	1:O:270:LYS:HE2	2.41	0.50
1:P:319:LYS:CA	1:P:364:ALA:HB1	2.41	0.50
1:A:512:ILE:HD13	1:B:45:ASP:HB3	1.94	0.50
1:B:103:LEU:HD13	1:B:103:LEU:C	2.37	0.50
1:B:440:ILE:HA	1:B:443:THR:HG23	1.93	0.50
1:C:374:GLU:HA	1:C:377:ILE:HG22	1.93	0.50
1:D:511:ARG:O	1:E:45:ASP:HB2	2.12	0.50
1:F:87:LYS:O	1:F:88:GLU:HB3	2.10	0.50
1:F:319:LYS:CA	1:F:364:ALA:HB1	2.41	0.50
1:F:442:ARG:NH1	1:F:455:ILE:HG13	2.26	0.50
1:F:512:ILE:HB	1:G:45:ASP:OD2	2.10	0.50
1:G:78:LEU:O	1:G:81:VAL:HG12	2.11	0.50
1:G:209:ILE:HG23	1:G:209:ILE:O	2.11	0.50
1:G:316:LYS:HE2	1:G:316:LYS:HA	1.94	0.50
1:G:436:ALA:O	1:G:439:VAL:HG22	2.11	0.50
1:G:511:ARG:O	1:H:45:ASP:HB2	2.11	0.50
1:G:515:VAL:HG22	1:G:517:ALA:N	2.26	0.50
1:H:213:LEU:HB3	1:H:366:THR:OG1	2.12	0.50
1:H:307:ARG:HG2	1:H:307:ARG:NH1	2.26	0.50
1:H:515:VAL:HG22	1:H:517:ALA:N	2.26	0.50
1:I:213:LEU:HB3	1:I:366:THR:OG1	2.12	0.50
1:I:509:LEU:HD23	1:I:510:LEU:N	2.27	0.50
1:I:515:VAL:HG22	1:I:517:ALA:N	2.26	0.50
1:J:240:GLU:OE1	1:J:242:LYS:HB3	2.10	0.50
1:J:316:LYS:HE2	1:J:316:LYS:HA	1.94	0.50
1:K:442:ARG:NH1	1:K:455:ILE:HG13	2.26	0.50
1:K:515:VAL:HG22	1:K:517:ALA:N	2.26	0.50
1:L:45:ASP:HB2	1:M:511:ARG:O	2.12	0.50
1:M:4:GLN:HB3	1:M:5:PRO:HD2	1.93	0.50
1:N:374:GLU:HA	1:N:377:ILE:HG22	1.93	0.50
1:N:386:ASP:O	1:N:390:VAL:HG13	2.10	0.50
1:O:206:THR:O	1:O:369:ILE:HG21	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:45:ASP:HB2	1:H:511:ARG:O	2.11	0.50
1:A:46:LYS:NZ	1:A:58:THR:HA	2.27	0.50
1:A:103:LEU:HD13	1:A:103:LEU:C	2.37	0.50
1:A:316:LYS:HE2	1:A:316:LYS:HA	1.94	0.50
1:B:4:GLN:HB3	1:B:5:PRO:HD2	1.93	0.50
1:B:267:LYS:CD	1:B:270:LYS:HE2	2.41	0.50
1:B:515:VAL:HG22	1:B:517:ALA:N	2.26	0.50
1:C:99:VAL:CB	1:C:440:ILE:HG21	2.40	0.50
1:C:386:ASP:O	1:C:390:VAL:HG13	2.10	0.50
1:D:41:PRO:HA	1:D:161:LYS:HD3	1.93	0.50
1:D:78:LEU:O	1:D:81:VAL:HG12	2.11	0.50
1:E:103:LEU:HD13	1:E:103:LEU:C	2.37	0.50
1:E:206:THR:O	1:E:369:ILE:HG21	2.11	0.50
1:E:511:ARG:O	1:F:45:ASP:HB2	2.11	0.50
1:F:188:VAL:HG21	1:G:225:LYS:HZ2	1.76	0.50
1:F:410:GLU:OE1	1:F:413:MET:HG2	2.11	0.50
1:F:515:VAL:HG22	1:F:517:ALA:N	2.26	0.50
1:G:410:GLU:OE1	1:G:413:MET:HG2	2.11	0.50
1:H:480:VAL:CG1	1:H:481:GLU:H	2.17	0.50
1:J:78:LEU:O	1:J:81:VAL:HG12	2.11	0.50
1:J:209:ILE:HG23	1:J:209:ILE:O	2.11	0.50
1:J:326:ILE:H	1:J:326:ILE:CD1	2.16	0.50
1:J:410:GLU:OE1	1:J:413:MET:HG2	2.11	0.50
1:M:41:PRO:HA	1:M:161:LYS:HD3	1.93	0.50
1:M:78:LEU:O	1:M:81:VAL:HG12	2.11	0.50
1:M:103:LEU:HD13	1:M:103:LEU:C	2.37	0.50
1:N:68:MET:H	1:O:520:LYS:CE	2.25	0.50
1:O:103:LEU:HD13	1:O:103:LEU:C	2.37	0.50
1:O:440:ILE:HA	1:O:443:THR:HG23	1.93	0.50
1:O:515:VAL:HG22	1:O:517:ALA:N	2.26	0.50
1:P:20:ALA:HB1	1:P:516:ILE:CG1	2.39	0.50
1:P:103:LEU:HD13	1:P:103:LEU:C	2.37	0.50
1:P:316:LYS:HA	1:P:316:LYS:HE2	1.94	0.50
1:B:209:ILE:HG23	1:B:209:ILE:O	2.11	0.50
1:B:369:ILE:HG13	1:B:370:ARG:H	1.75	0.50
1:B:413:MET:SD	1:B:413:MET:C	2.95	0.50
1:C:96:ALA:HB1	1:C:498:ALA:HB1	1.94	0.50
1:C:436:ALA:O	1:C:439:VAL:HG22	2.11	0.50
1:D:103:LEU:HD13	1:D:103:LEU:C	2.37	0.50
1:D:168:GLU:C	1:D:170:LEU:N	2.67	0.50
1:D:206:THR:C	1:D:369:ILE:HG21	2.37	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:374:GLU:HA	1:E:377:ILE:HG22	1.93	0.50
1:F:323:ALA:HB3	1:F:335:GLN:HB3	1.93	0.50
1:G:319:LYS:CA	1:G:364:ALA:HB1	2.41	0.50
1:G:509:LEU:HD23	1:G:510:LEU:N	2.27	0.50
1:H:4:GLN:HB3	1:H:5:PRO:HD2	1.93	0.50
1:I:323:ALA:HB3	1:I:335:GLN:HB3	1.93	0.50
1:I:511:ARG:O	1:P:45:ASP:HB2	2.12	0.50
1:J:48:LEU:CD1	1:J:48:LEU:N	2.72	0.50
1:J:99:VAL:CB	1:J:440:ILE:HG21	2.40	0.50
1:J:319:LYS:CA	1:J:364:ALA:HB1	2.41	0.50
1:J:509:LEU:HD23	1:J:510:LEU:N	2.27	0.50
1:K:45:ASP:HB2	1:L:511:ARG:O	2.11	0.50
1:K:45:ASP:C	1:K:46:LYS:HD3	2.36	0.50
1:K:48:LEU:CD1	1:K:48:LEU:N	2.72	0.50
1:K:131:ALA:HA	1:K:134:LEU:HD11	1.89	0.50
1:K:323:ALA:HB3	1:K:335:GLN:HB3	1.93	0.50
1:K:410:GLU:OE1	1:K:413:MET:HG2	2.11	0.50
1:L:103:LEU:HD13	1:L:103:LEU:C	2.37	0.50
1:L:267:LYS:CD	1:L:270:LYS:HE2	2.41	0.50
1:L:374:GLU:HA	1:L:377:ILE:HG22	1.93	0.50
1:L:480:VAL:CG1	1:L:481:GLU:H	2.17	0.50
1:M:168:GLU:C	1:M:170:LEU:N	2.67	0.50
1:M:206:THR:C	1:M:369:ILE:HG21	2.37	0.50
1:N:96:ALA:HB1	1:N:498:ALA:HB1	1.94	0.50
1:O:61:GLY:HA3	1:O:94:THR:CG2	2.29	0.50
1:O:209:ILE:HG23	1:O:209:ILE:O	2.11	0.50
1:O:425:ARG:CG	1:O:426:GLU:N	2.73	0.50
1:P:41:PRO:HA	1:P:161:LYS:HD3	1.94	0.50
1:P:46:LYS:NZ	1:P:58:THR:HA	2.27	0.50
1:P:436:ALA:O	1:P:439:VAL:HG22	2.11	0.50
1:A:6:GLY:C	1:A:8:LEU:H	2.20	0.50
1:A:20:ALA:HB1	1:A:516:ILE:CG1	2.40	0.50
1:A:41:PRO:HA	1:A:161:LYS:HD3	1.94	0.50
1:A:213:LEU:HB3	1:A:366:THR:OG1	2.12	0.50
1:A:413:MET:C	1:A:413:MET:SD	2.95	0.50
1:A:511:ARG:O	1:B:45:ASP:HB2	2.12	0.50
1:A:515:VAL:HG22	1:A:517:ALA:N	2.26	0.50
1:B:214:VAL:HA	1:B:316:LYS:CG	2.42	0.50
1:B:316:LYS:HE2	1:B:316:LYS:HA	1.94	0.50
1:B:511:ARG:O	1:C:45:ASP:HB2	2.12	0.50
1:C:316:LYS:HA	1:C:316:LYS:HE2	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:440:ILE:HA	1:C:443:THR:HG23	1.93	0.50
1:C:509:LEU:HD23	1:C:510:LEU:N	2.27	0.50
1:C:512:ILE:HA	1:D:45:ASP:HB3	1.93	0.50
1:D:206:THR:O	1:D:369:ILE:HG21	2.11	0.50
1:D:267:LYS:CD	1:D:270:LYS:HE2	2.41	0.50
1:E:509:LEU:HD23	1:E:510:LEU:N	2.27	0.50
1:F:45:ASP:C	1:F:46:LYS:HD3	2.36	0.50
1:G:45:ASP:C	1:G:46:LYS:HD3	2.36	0.50
1:G:99:VAL:CB	1:G:440:ILE:HG21	2.40	0.50
1:G:187:LYS:CG	1:H:347:LYS:HB3	2.42	0.50
1:G:206:THR:C	1:G:369:ILE:HG21	2.37	0.50
1:G:240:GLU:OE1	1:G:242:LYS:HB3	2.10	0.50
1:H:323:ALA:HB3	1:H:335:GLN:HB3	1.93	0.50
1:H:413:MET:SD	1:H:413:MET:C	2.95	0.50
1:I:413:MET:C	1:I:413:MET:SD	2.95	0.50
1:J:206:THR:C	1:J:369:ILE:HG21	2.37	0.50
1:J:225:LYS:HZ2	1:K:188:VAL:HG21	1.76	0.50
1:L:206:THR:O	1:L:369:ILE:HG21	2.11	0.50
1:L:509:LEU:HD23	1:L:510:LEU:N	2.27	0.50
1:M:45:ASP:HB3	1:N:512:ILE:HA	1.93	0.50
1:M:158:ILE:HG13	1:M:159:THR:N	2.27	0.50
1:M:267:LYS:CD	1:M:270:LYS:HE2	2.41	0.50
1:N:99:VAL:CB	1:N:440:ILE:HG21	2.40	0.50
1:N:319:LYS:CA	1:N:364:ALA:HB1	2.41	0.50
1:N:436:ALA:O	1:N:439:VAL:HG22	2.11	0.50
1:N:440:ILE:HA	1:N:443:THR:HG23	1.93	0.50
1:N:509:LEU:HD23	1:N:510:LEU:N	2.27	0.50
1:N:510:LEU:C	1:N:512:ILE:N	2.67	0.50
1:O:316:LYS:HE2	1:O:316:LYS:HA	1.94	0.50
1:O:369:ILE:HG13	1:O:370:ARG:H	1.76	0.50
1:O:413:MET:C	1:O:413:MET:SD	2.95	0.50
1:P:44:MET:CE	1:P:58:THR:HG21	2.24	0.50
1:P:206:THR:C	1:P:369:ILE:HG21	2.37	0.50
1:P:217:GLU:HB3	1:P:219:VAL:H	1.77	0.50
1:P:413:MET:SD	1:P:413:MET:C	2.95	0.50
1:A:206:THR:C	1:A:369:ILE:HG21	2.37	0.50
1:A:442:ARG:NH1	1:A:455:ILE:HG13	2.26	0.50
1:B:425:ARG:CG	1:B:426:GLU:N	2.73	0.50
1:C:61:GLY:O	1:C:64:ILE:HG22	2.11	0.50
1:C:319:LYS:CA	1:C:364:ALA:HB1	2.41	0.50
1:D:6:GLY:C	1:D:8:LEU:H	2.20	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:158:ILE:HG13	1:D:159:THR:N	2.27	0.50
1:D:509:LEU:HD23	1:D:510:LEU:N	2.27	0.50
1:E:6:GLY:C	1:E:8:LEU:H	2.20	0.50
1:E:267:LYS:CD	1:E:270:LYS:HE2	2.41	0.50
1:F:48:LEU:CD1	1:F:48:LEU:N	2.72	0.50
1:F:187:LYS:CG	1:G:347:LYS:HB3	2.42	0.50
1:F:316:LYS:HE2	1:F:316:LYS:HA	1.94	0.50
1:G:48:LEU:CD1	1:G:48:LEU:N	2.72	0.50
1:H:206:THR:C	1:H:369:ILE:HG21	2.37	0.50
1:H:217:GLU:HB3	1:H:219:VAL:H	1.77	0.50
1:H:267:LYS:CD	1:H:270:LYS:HE2	2.41	0.50
1:I:4:GLN:HB3	1:I:5:PRO:HD2	1.93	0.50
1:I:206:THR:C	1:I:369:ILE:HG21	2.37	0.50
1:I:217:GLU:HB3	1:I:219:VAL:H	1.77	0.50
1:I:347:LYS:HB3	1:J:187:LYS:CG	2.42	0.50
1:J:45:ASP:C	1:J:46:LYS:HD3	2.36	0.50
1:K:316:LYS:HA	1:K:316:LYS:HE2	1.94	0.50
1:L:6:GLY:C	1:L:8:LEU:H	2.20	0.50
1:L:61:GLY:O	1:L:64:ILE:HG22	2.11	0.50
1:L:410:GLU:OE1	1:L:413:MET:HG2	2.11	0.50
1:M:61:GLY:O	1:M:64:ILE:HG22	2.11	0.50
1:M:213:LEU:O	1:M:215:ASP:N	2.39	0.50
1:M:509:LEU:HD23	1:M:510:LEU:N	2.27	0.50
1:N:316:LYS:HE2	1:N:316:LYS:HA	1.94	0.50
1:O:206:THR:C	1:O:369:ILE:HG21	2.37	0.50
1:P:61:GLY:O	1:P:64:ILE:HG22	2.11	0.50
1:P:209:ILE:HG23	1:P:209:ILE:O	2.11	0.50
1:P:213:LEU:HB3	1:P:366:THR:OG1	2.12	0.50
1:A:44:MET:CE	1:A:58:THR:HG21	2.24	0.50
1:A:68:MET:H	1:H:520:LYS:CE	2.25	0.50
1:A:87:LYS:O	1:A:88:GLU:HB3	2.10	0.50
1:A:217:GLU:HB3	1:A:219:VAL:H	1.77	0.50
1:A:347:LYS:CG	1:H:187:LYS:HZ2	2.14	0.50
1:A:436:ALA:O	1:A:439:VAL:HG22	2.12	0.50
1:B:61:GLY:HA3	1:B:94:THR:CG2	2.29	0.50
1:B:206:THR:C	1:B:369:ILE:HG21	2.37	0.50
1:B:319:LYS:CA	1:B:364:ALA:HB1	2.41	0.50
1:C:413:MET:SD	1:C:413:MET:C	2.95	0.50
1:C:520:LYS:CE	1:D:68:MET:H	2.25	0.50
1:D:61:GLY:O	1:D:64:ILE:HG22	2.11	0.50
1:D:410:GLU:OE1	1:D:413:MET:HG2	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:436:ALA:O	1:D:439:VAL:HG22	2.12	0.50
1:E:61:GLY:O	1:E:64:ILE:HG22	2.11	0.50
1:E:208:LEU:HG	1:E:210:LYS:HA	1.94	0.50
1:E:410:GLU:OE1	1:E:413:MET:HG2	2.11	0.50
1:F:436:ALA:O	1:F:439:VAL:HG22	2.12	0.50
1:G:61:GLY:O	1:G:64:ILE:HG22	2.11	0.50
1:G:208:LEU:HG	1:G:210:LYS:HA	1.94	0.50
1:G:307:ARG:HG2	1:G:307:ARG:NH1	2.26	0.50
1:G:413:MET:SD	1:G:413:MET:C	2.95	0.50
1:G:442:ARG:NH1	1:G:455:ILE:HG13	2.26	0.50
1:H:61:GLY:O	1:H:64:ILE:HG22	2.11	0.50
1:I:61:GLY:O	1:I:64:ILE:HG22	2.11	0.50
1:I:267:LYS:CD	1:I:270:LYS:HE2	2.41	0.50
1:I:316:LYS:HE2	1:I:316:LYS:HA	1.94	0.50
1:I:480:VAL:CG1	1:I:481:GLU:H	2.17	0.50
1:J:208:LEU:HG	1:J:210:LYS:HA	1.94	0.50
1:J:347:LYS:HB3	1:K:187:LYS:CG	2.42	0.50
1:J:413:MET:SD	1:J:413:MET:C	2.95	0.50
1:L:208:LEU:HG	1:L:210:LYS:HA	1.94	0.50
1:M:6:GLY:C	1:M:8:LEU:H	2.20	0.50
1:M:206:THR:O	1:M:369:ILE:HG21	2.11	0.50
1:M:369:ILE:HG13	1:M:370:ARG:H	1.76	0.50
1:N:45:ASP:HB2	1:O:511:ARG:O	2.12	0.50
1:N:413:MET:SD	1:N:413:MET:C	2.95	0.50
1:O:319:LYS:CA	1:O:364:ALA:HB1	2.41	0.50
1:P:6:GLY:C	1:P:8:LEU:H	2.20	0.50
1:P:102:GLU:HG3	1:P:105:ARG:HH11	1.77	0.50
1:P:442:ARG:NH1	1:P:455:ILE:HG13	2.26	0.50
1:A:117:PRO:HG3	1:A:511:ARG:HE	1.77	0.50
1:A:187:LYS:CG	1:B:347:LYS:HB3	2.42	0.50
1:A:209:ILE:HG23	1:A:209:ILE:O	2.11	0.50
1:A:347:LYS:HB3	1:H:187:LYS:CG	2.42	0.50
1:B:418:TYR:C	1:B:420:GLU:N	2.70	0.50
1:C:510:LEU:C	1:C:512:ILE:N	2.67	0.50
1:D:217:GLU:HB3	1:D:219:VAL:H	1.77	0.50
1:D:369:ILE:HG13	1:D:370:ARG:H	1.76	0.50
1:E:369:ILE:HG13	1:E:370:ARG:H	1.76	0.50
1:E:450:LEU:CD2	1:I:450:LEU:HD13	2.42	0.50
1:F:450:LEU:HD13	1:J:450:LEU:CD2	2.42	0.50
1:G:302:GLY:O	1:G:304:VAL:N	2.44	0.50
1:G:450:LEU:CD2	1:K:450:LEU:HD13	2.42	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:6:GLY:C	1:H:8:LEU:H	2.20	0.50
1:H:103:LEU:HD13	1:H:103:LEU:C	2.37	0.50
1:H:316:LYS:HA	1:H:316:LYS:HE2	1.94	0.50
1:J:169:LYS:HZ2	1:J:173:ILE:HD11	1.76	0.50
1:J:442:ARG:NH1	1:J:455:ILE:HG13	2.26	0.50
1:K:103:LEU:HD13	1:K:103:LEU:C	2.37	0.50
1:K:206:THR:C	1:K:369:ILE:HG21	2.37	0.50
1:K:436:ALA:O	1:K:439:VAL:HG22	2.12	0.50
1:L:319:LYS:CA	1:L:364:ALA:HB1	2.41	0.50
1:M:45:ASP:HB2	1:N:511:ARG:O	2.11	0.50
1:M:68:MET:H	1:N:520:LYS:CE	2.25	0.50
1:M:102:GLU:HG3	1:M:105:ARG:HH11	1.77	0.50
1:M:410:GLU:OE1	1:M:413:MET:HG2	2.11	0.50
1:M:436:ALA:O	1:M:439:VAL:HG22	2.12	0.50
1:N:61:GLY:O	1:N:64:ILE:HG22	2.11	0.50
1:N:217:GLU:HB3	1:N:219:VAL:H	1.77	0.50
1:O:169:LYS:HZ2	1:O:173:ILE:HD11	1.76	0.50
1:O:347:LYS:HB3	1:P:187:LYS:CG	2.42	0.50
1:O:418:TYR:C	1:O:420:GLU:N	2.70	0.50
1:P:87:LYS:O	1:P:88:GLU:HB3	2.10	0.50
1:A:520:LYS:CE	1:B:68:MET:H	2.24	0.49
1:B:46:LYS:NZ	1:B:58:THR:HA	2.27	0.49
1:C:102:GLU:HG3	1:C:105:ARG:HH11	1.77	0.49
1:C:103:LEU:HD13	1:C:103:LEU:C	2.37	0.49
1:C:511:ARG:O	1:D:45:ASP:HB2	2.11	0.49
1:D:102:GLU:HG3	1:D:105:ARG:HH11	1.77	0.49
1:D:213:LEU:HB3	1:D:366:THR:OG1	2.12	0.49
1:D:213:LEU:O	1:D:215:ASP:N	2.39	0.49
1:D:316:LYS:HE2	1:D:316:LYS:HA	1.94	0.49
1:E:187:LYS:CG	1:F:347:LYS:HB3	2.42	0.49
1:E:209:ILE:HG23	1:E:209:ILE:O	2.11	0.49
1:E:316:LYS:HE2	1:E:316:LYS:HA	1.94	0.49
1:E:319:LYS:CA	1:E:364:ALA:HB1	2.41	0.49
1:F:103:LEU:HD13	1:F:103:LEU:C	2.37	0.49
1:F:206:THR:C	1:F:369:ILE:HG21	2.37	0.49
1:F:450:LEU:CD2	1:J:450:LEU:HD13	2.42	0.49
1:F:510:LEU:C	1:F:512:ILE:N	2.67	0.49
1:G:342:LEU:HD12	1:G:342:LEU:N	2.27	0.49
1:G:450:LEU:HD13	1:K:450:LEU:CD2	2.42	0.49
1:H:450:LEU:HD13	1:L:450:LEU:CD2	2.42	0.49
1:I:6:GLY:C	1:I:8:LEU:H	2.20	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:68:MET:H	1:J:520:LYS:CE	2.25	0.49
1:I:187:LYS:HZ2	1:P:347:LYS:CG	2.13	0.49
1:I:225:LYS:HZ2	1:J:188:VAL:HG21	1.77	0.49
1:I:520:LYS:CE	1:P:68:MET:H	2.25	0.49
1:J:61:GLY:O	1:J:64:ILE:HG22	2.11	0.49
1:J:302:GLY:O	1:J:304:VAL:N	2.44	0.49
1:J:307:ARG:HG2	1:J:307:ARG:NH1	2.26	0.49
1:J:342:LEU:HD12	1:J:342:LEU:N	2.27	0.49
1:K:256:ALA:HB2	1:L:261:PHE:CD1	2.47	0.49
1:K:510:LEU:C	1:K:512:ILE:N	2.67	0.49
1:L:96:ALA:HB1	1:L:498:ALA:HB1	1.94	0.49
1:L:209:ILE:HG23	1:L:209:ILE:O	2.11	0.49
1:L:316:LYS:HE2	1:L:316:LYS:HA	1.94	0.49
1:L:369:ILE:HG13	1:L:370:ARG:H	1.76	0.49
1:M:213:LEU:HB3	1:M:366:THR:OG1	2.12	0.49
1:M:217:GLU:HB3	1:M:219:VAL:H	1.77	0.49
1:N:102:GLU:HG3	1:N:105:ARG:HH11	1.77	0.49
1:N:103:LEU:HD13	1:N:103:LEU:C	2.37	0.49
1:O:217:GLU:HB3	1:O:219:VAL:H	1.77	0.49
1:P:213:LEU:O	1:P:215:ASP:N	2.39	0.49
1:A:307:ARG:HG2	1:A:307:ARG:NH1	2.26	0.49
1:A:509:LEU:HD23	1:A:510:LEU:N	2.27	0.49
1:B:117:PRO:HG3	1:B:511:ARG:HE	1.77	0.49
1:B:187:LYS:CG	1:C:347:LYS:HB3	2.42	0.49
1:C:6:GLY:C	1:C:8:LEU:H	2.20	0.49
1:C:61:GLY:CA	1:C:94:THR:HG21	2.32	0.49
1:C:217:GLU:HB3	1:C:219:VAL:H	1.77	0.49
1:C:442:ARG:NH1	1:C:455:ILE:HG13	2.26	0.49
1:D:342:LEU:HD12	1:D:342:LEU:N	2.28	0.49
1:E:96:ALA:HB1	1:E:498:ALA:HB1	1.94	0.49
1:E:261:PHE:CD1	1:F:256:ALA:HB2	2.48	0.49
1:F:187:LYS:HZ2	1:G:347:LYS:CG	2.12	0.49
1:F:213:LEU:HB3	1:F:366:THR:OG1	2.12	0.49
1:G:117:PRO:HG3	1:G:511:ARG:HE	1.77	0.49
1:G:520:LYS:CE	1:H:68:MET:H	2.25	0.49
1:H:208:LEU:HG	1:H:210:LYS:CA	2.43	0.49
1:H:208:LEU:HG	1:H:210:LYS:HA	1.95	0.49
1:H:418:TYR:C	1:H:420:GLU:H	2.21	0.49
1:I:103:LEU:HD13	1:I:103:LEU:C	2.37	0.49
1:I:187:LYS:CG	1:P:347:LYS:HB3	2.42	0.49
1:I:208:LEU:HG	1:I:210:LYS:HA	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:208:LEU:HG	1:I:210:LYS:CA	2.43	0.49
1:I:256:ALA:HB2	1:J:261:PHE:CD1	2.47	0.49
1:I:302:GLY:O	1:I:304:VAL:N	2.44	0.49
1:I:418:TYR:C	1:I:420:GLU:H	2.21	0.49
1:J:45:ASP:HB2	1:K:511:ARG:O	2.12	0.49
1:J:117:PRO:HG3	1:J:511:ARG:HE	1.77	0.49
1:K:102:GLU:HG3	1:K:105:ARG:HH11	1.77	0.49
1:K:347:LYS:HB3	1:L:187:LYS:CG	2.42	0.49
1:K:374:GLU:HA	1:K:377:ILE:HG22	1.93	0.49
1:M:68:MET:CA	1:N:520:LYS:HD2	2.40	0.49
1:M:214:VAL:HA	1:M:316:LYS:CG	2.42	0.49
1:M:316:LYS:HE2	1:M:316:LYS:HA	1.94	0.49
1:M:342:LEU:HD12	1:M:342:LEU:N	2.28	0.49
1:N:61:GLY:CA	1:N:94:THR:HG21	2.32	0.49
1:N:347:LYS:HB3	1:O:187:LYS:CG	2.42	0.49
1:O:6:GLY:C	1:O:8:LEU:H	2.20	0.49
1:O:46:LYS:NZ	1:O:58:THR:HA	2.27	0.49
1:O:213:LEU:HB3	1:O:366:THR:OG1	2.12	0.49
1:P:158:ILE:HG13	1:P:159:THR:N	2.27	0.49
1:A:61:GLY:O	1:A:64:ILE:HG22	2.11	0.49
1:A:213:LEU:O	1:A:215:ASP:N	2.39	0.49
1:A:342:LEU:N	1:A:342:LEU:HD12	2.27	0.49
1:B:213:LEU:HB3	1:B:366:THR:OG1	2.12	0.49
1:B:217:GLU:HB3	1:B:219:VAL:H	1.77	0.49
1:B:286:CYS:SG	1:B:288:LYS:C	2.96	0.49
1:C:158:ILE:HG13	1:C:159:THR:N	2.27	0.49
1:C:206:THR:C	1:C:369:ILE:HG21	2.37	0.49
1:C:208:LEU:HG	1:C:210:LYS:CA	2.43	0.49
1:D:208:LEU:HG	1:D:210:LYS:CA	2.43	0.49
1:D:214:VAL:HA	1:D:316:LYS:CG	2.42	0.49
1:D:512:ILE:HA	1:E:45:ASP:HB3	1.93	0.49
1:E:144:ALA:HB2	1:E:400:ILE:CG1	2.22	0.49
1:F:102:GLU:HG3	1:F:105:ARG:HH11	1.77	0.49
1:F:208:LEU:HG	1:F:210:LYS:HA	1.95	0.49
1:F:509:LEU:HD23	1:F:510:LEU:N	2.27	0.49
1:G:96:ALA:CB	1:G:498:ALA:HB1	2.43	0.49
1:G:111:LEU:HG	1:G:114:ASN:CB	2.40	0.49
1:G:217:GLU:HB3	1:G:219:VAL:H	1.77	0.49
1:G:261:PHE:CD1	1:H:256:ALA:HB2	2.48	0.49
1:H:41:PRO:HA	1:H:161:LYS:HD3	1.93	0.49
1:H:117:PRO:HG3	1:H:511:ARG:HE	1.78	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:302:GLY:O	1:H:304:VAL:N	2.44	0.49
1:H:410:GLU:OE1	1:H:413:MET:HG2	2.11	0.49
1:I:41:PRO:HA	1:I:161:LYS:HD3	1.93	0.49
1:I:117:PRO:HG3	1:I:511:ARG:HE	1.77	0.49
1:I:374:GLU:HA	1:I:377:ILE:HG22	1.93	0.49
1:J:96:ALA:CB	1:J:498:ALA:HB1	2.43	0.49
1:J:217:GLU:HB3	1:J:219:VAL:H	1.77	0.49
1:K:6:GLY:C	1:K:8:LEU:H	2.20	0.49
1:K:194:LYS:NZ	1:K:316:LYS:HD2	2.27	0.49
1:K:208:LEU:HG	1:K:210:LYS:HA	1.95	0.49
1:K:209:ILE:O	1:K:209:ILE:HG23	2.11	0.49
1:K:213:LEU:HB3	1:K:366:THR:OG1	2.12	0.49
1:K:509:LEU:HD23	1:K:510:LEU:N	2.27	0.49
1:L:45:ASP:HB3	1:M:512:ILE:HA	1.93	0.49
1:M:111:LEU:HG	1:M:114:ASN:CB	2.40	0.49
1:M:208:LEU:HG	1:M:210:LYS:CA	2.43	0.49
1:M:209:ILE:HG23	1:M:209:ILE:O	2.11	0.49
1:N:206:THR:C	1:N:369:ILE:HG21	2.37	0.49
1:N:208:LEU:HG	1:N:210:LYS:CA	2.43	0.49
1:N:267:LYS:CD	1:N:270:LYS:HE2	2.41	0.49
1:N:442:ARG:NH1	1:N:455:ILE:HG13	2.26	0.49
1:O:117:PRO:HG3	1:O:511:ARG:HE	1.77	0.49
1:P:103:LEU:HD22	1:P:106:LYS:HB3	1.95	0.49
1:P:307:ARG:HG2	1:P:307:ARG:NH1	2.26	0.49
1:P:342:LEU:HD12	1:P:342:LEU:N	2.27	0.49
1:P:509:LEU:HD23	1:P:510:LEU:N	2.27	0.49
1:A:70:VAL:CG2	1:A:71:GLU:H	2.18	0.49
1:A:102:GLU:HG3	1:A:105:ARG:HH11	1.78	0.49
1:A:323:ALA:HB3	1:A:335:GLN:HB3	1.93	0.49
1:C:117:PRO:HG3	1:C:511:ARG:HE	1.77	0.49
1:C:187:LYS:CG	1:D:347:LYS:HB3	2.42	0.49
1:C:213:LEU:HB3	1:C:366:THR:OG1	2.12	0.49
1:C:520:LYS:HD2	1:D:68:MET:CA	2.40	0.49
1:D:111:LEU:HG	1:D:114:ASN:CB	2.40	0.49
1:D:208:LEU:HG	1:D:210:LYS:HA	1.95	0.49
1:D:413:MET:C	1:D:413:MET:SD	2.95	0.49
1:D:450:LEU:CD2	1:P:450:LEU:HD13	2.42	0.49
1:E:41:PRO:HA	1:E:161:LYS:HD3	1.94	0.49
1:E:206:THR:C	1:E:369:ILE:HG21	2.37	0.49
1:E:442:ARG:NH1	1:E:455:ILE:HG13	2.26	0.49
1:E:483:MET:CE	1:E:485:GLU:HA	2.43	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:6:GLY:C	1:F:8:LEU:H	2.20	0.49
1:F:374:GLU:HA	1:F:377:ILE:HG22	1.93	0.49
1:F:413:MET:SD	1:F:413:MET:C	2.95	0.49
1:F:483:MET:CE	1:F:485:GLU:HA	2.43	0.49
1:F:511:ARG:O	1:G:45:ASP:HB2	2.12	0.49
1:G:158:ILE:HG13	1:G:159:THR:N	2.27	0.49
1:G:418:TYR:C	1:G:420:GLU:H	2.20	0.49
1:H:107:ALA:O	1:H:110:LEU:HB2	2.13	0.49
1:I:107:ALA:O	1:I:110:LEU:HB2	2.13	0.49
1:I:410:GLU:OE1	1:I:413:MET:HG2	2.11	0.49
1:J:46:LYS:NZ	1:J:58:THR:HA	2.27	0.49
1:J:111:LEU:HG	1:J:114:ASN:CB	2.40	0.49
1:J:158:ILE:HG13	1:J:159:THR:N	2.27	0.49
1:J:208:LEU:HG	1:J:210:LYS:CA	2.43	0.49
1:J:213:LEU:HB3	1:J:366:THR:OG1	2.12	0.49
1:K:61:GLY:O	1:K:64:ILE:HG22	2.11	0.49
1:K:413:MET:SD	1:K:413:MET:C	2.95	0.49
1:K:483:MET:CE	1:K:485:GLU:HA	2.43	0.49
1:L:41:PRO:HA	1:L:161:LYS:HD3	1.94	0.49
1:L:208:LEU:HG	1:L:210:LYS:CA	2.43	0.49
1:L:216:LYS:HZ2	1:L:352:SER:HB2	1.77	0.49
1:L:483:MET:CE	1:L:485:GLU:HA	2.43	0.49
1:M:413:MET:SD	1:M:413:MET:C	2.95	0.49
1:N:6:GLY:C	1:N:8:LEU:H	2.20	0.49
1:O:68:MET:H	1:P:520:LYS:CE	2.25	0.49
1:P:208:LEU:HG	1:P:210:LYS:HA	1.94	0.49
1:P:323:ALA:HB3	1:P:335:GLN:HB3	1.93	0.49
1:P:418:TYR:C	1:P:420:GLU:H	2.20	0.49
1:A:103:LEU:HD22	1:A:106:LYS:HB3	1.95	0.49
1:A:418:TYR:C	1:A:420:GLU:N	2.70	0.49
1:A:450:LEU:HD13	1:M:450:LEU:CD2	2.42	0.49
1:B:442:ARG:O	1:B:445:ALA:HB3	2.13	0.49
1:C:107:ALA:O	1:C:110:LEU:HB2	2.13	0.49
1:C:194:LYS:NZ	1:C:316:LYS:HD2	2.27	0.49
1:C:208:LEU:HG	1:C:210:LYS:HA	1.94	0.49
1:C:267:LYS:CD	1:C:270:LYS:HE2	2.41	0.49
1:C:323:ALA:HB3	1:C:335:GLN:HB3	1.93	0.49
1:C:369:ILE:HG13	1:C:370:ARG:H	1.76	0.49
1:D:46:LYS:NZ	1:D:58:THR:HA	2.27	0.49
1:D:209:ILE:HG23	1:D:209:ILE:O	2.11	0.49
1:D:495:LYS:HA	1:D:498:ALA:HB3	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:158:ILE:HG13	1:E:159:THR:N	2.27	0.49
1:E:208:LEU:HG	1:E:210:LYS:CA	2.43	0.49
1:E:520:LYS:CE	1:F:68:MET:H	2.25	0.49
1:F:46:LYS:NZ	1:F:58:THR:HA	2.27	0.49
1:F:61:GLY:O	1:F:64:ILE:HG22	2.11	0.49
1:F:208:LEU:HG	1:F:210:LYS:CA	2.43	0.49
1:F:209:ILE:HG23	1:F:209:ILE:O	2.11	0.49
1:G:6:GLY:C	1:G:8:LEU:H	2.20	0.49
1:G:46:LYS:NZ	1:G:58:THR:HA	2.27	0.49
1:G:213:LEU:HB3	1:G:366:THR:OG1	2.12	0.49
1:G:267:LYS:CD	1:G:270:LYS:HE2	2.41	0.49
1:G:323:ALA:HB3	1:G:335:GLN:HB3	1.93	0.49
1:H:48:LEU:HD22	1:H:48:LEU:C	2.38	0.49
1:H:374:GLU:HA	1:H:377:ILE:HG22	1.93	0.49
1:I:45:ASP:HB3	1:J:512:ILE:HA	1.93	0.49
1:I:48:LEU:C	1:I:48:LEU:HD22	2.38	0.49
1:I:520:LYS:H	1:I:520:LYS:HD3	1.77	0.49
1:J:246:THR:C	1:J:248:ALA:N	2.64	0.49
1:J:418:TYR:C	1:J:420:GLU:H	2.20	0.49
1:K:46:LYS:NZ	1:K:58:THR:HA	2.27	0.49
1:K:68:MET:H	1:L:520:LYS:CE	2.25	0.49
1:K:111:LEU:HG	1:K:114:ASN:CB	2.40	0.49
1:K:208:LEU:HG	1:K:210:LYS:CA	2.43	0.49
1:L:206:THR:C	1:L:369:ILE:HG21	2.37	0.49
1:L:307:ARG:HG2	1:L:307:ARG:NH1	2.26	0.49
1:L:495:LYS:HA	1:L:498:ALA:HB3	1.95	0.49
1:M:44:MET:CE	1:M:58:THR:HG21	2.24	0.49
1:M:103:LEU:HD22	1:M:106:LYS:HB3	1.95	0.49
1:M:208:LEU:HG	1:M:210:LYS:HA	1.95	0.49
1:M:323:ALA:HB3	1:M:335:GLN:HB3	1.93	0.49
1:M:347:LYS:HB3	1:N:187:LYS:CG	2.42	0.49
1:M:495:LYS:HA	1:M:498:ALA:HB3	1.95	0.49
1:N:107:ALA:O	1:N:110:LEU:HB2	2.13	0.49
1:N:158:ILE:HG13	1:N:159:THR:N	2.27	0.49
1:N:194:LYS:NZ	1:N:316:LYS:HD2	2.27	0.49
1:N:208:LEU:HG	1:N:210:LYS:HA	1.94	0.49
1:N:213:LEU:HB3	1:N:366:THR:OG1	2.12	0.49
1:N:323:ALA:HB3	1:N:335:GLN:HB3	1.93	0.49
1:O:436:ALA:O	1:O:439:VAL:HG22	2.12	0.49
1:O:442:ARG:O	1:O:445:ALA:HB3	2.13	0.49
1:P:70:VAL:CG2	1:P:71:GLU:H	2.18	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:117:PRO:HG3	1:P:511:ARG:HE	1.77	0.49
1:P:131:ALA:HB2	1:P:499:ILE:HG21	1.94	0.49
1:P:418:TYR:C	1:P:420:GLU:N	2.70	0.49
1:P:442:ARG:O	1:P:445:ALA:HB3	2.13	0.49
1:A:45:ASP:HB3	1:H:512:ILE:HA	1.93	0.49
1:A:131:ALA:HB2	1:A:499:ILE:HG21	1.94	0.49
1:A:158:ILE:HG13	1:A:159:THR:N	2.27	0.49
1:A:194:LYS:NZ	1:A:316:LYS:HD2	2.27	0.49
1:A:418:TYR:C	1:A:420:GLU:H	2.21	0.49
1:A:442:ARG:O	1:A:445:ALA:HB3	2.13	0.49
1:B:436:ALA:O	1:B:439:VAL:HG22	2.12	0.49
1:C:103:LEU:HD22	1:C:106:LYS:HB3	1.95	0.49
1:C:342:LEU:N	1:C:342:LEU:HD12	2.27	0.49
1:C:450:LEU:CD2	1:O:450:LEU:HD13	2.42	0.49
1:D:103:LEU:HD22	1:D:106:LYS:HB3	1.95	0.49
1:D:131:ALA:HB2	1:D:499:ILE:HG21	1.94	0.49
1:D:323:ALA:HB3	1:D:335:GLN:HB3	1.93	0.49
1:E:48:LEU:C	1:E:48:LEU:HD22	2.38	0.49
1:E:194:LYS:NZ	1:E:316:LYS:HD2	2.27	0.49
1:E:495:LYS:HA	1:E:498:ALA:HB3	1.95	0.49
1:F:217:GLU:HB3	1:F:219:VAL:H	1.77	0.49
1:G:512:ILE:HA	1:H:45:ASP:HB3	1.93	0.49
1:H:131:ALA:HB2	1:H:499:ILE:HG21	1.94	0.49
1:I:46:LYS:NZ	1:I:58:THR:HA	2.27	0.49
1:J:168:GLU:C	1:J:170:LEU:N	2.67	0.49
1:L:48:LEU:C	1:L:48:LEU:HD22	2.38	0.49
1:L:158:ILE:HG13	1:L:159:THR:N	2.27	0.49
1:L:442:ARG:NH1	1:L:455:ILE:HG13	2.26	0.49
1:M:46:LYS:NZ	1:M:58:THR:HA	2.27	0.49
1:M:96:ALA:CB	1:M:498:ALA:HB1	2.43	0.49
1:M:131:ALA:HB2	1:M:499:ILE:HG21	1.94	0.49
1:N:45:ASP:HB3	1:O:512:ILE:HA	1.93	0.49
1:N:103:LEU:HD22	1:N:106:LYS:HB3	1.95	0.49
1:N:117:PRO:HG3	1:N:511:ARG:HE	1.77	0.49
1:O:45:ASP:HB3	1:P:512:ILE:HA	1.93	0.49
1:O:208:LEU:HG	1:O:210:LYS:CA	2.43	0.49
1:O:286:CYS:SG	1:O:288:LYS:C	2.96	0.49
1:P:410:GLU:OE1	1:P:413:MET:HG2	2.11	0.49
1:A:60:ASP:HB2	1:A:63:THR:HG22	1.95	0.49
1:A:96:ALA:HB1	1:A:498:ALA:HB1	1.94	0.49
1:A:208:LEU:HG	1:A:210:LYS:HA	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:384:VAL:O	1:A:387:ALA:HB3	2.13	0.49
1:A:410:GLU:OE1	1:A:413:MET:HG2	2.11	0.49
1:B:87:LYS:O	1:B:88:GLU:HB3	2.10	0.49
1:B:208:LEU:HG	1:B:210:LYS:CA	2.43	0.49
1:B:512:ILE:HA	1:C:45:ASP:HB3	1.93	0.49
1:C:46:LYS:NZ	1:C:58:THR:HA	2.27	0.49
1:C:216:LYS:O	1:C:217:GLU:HG2	2.13	0.49
1:C:442:ARG:HH22	1:C:456:LEU:CA	2.26	0.49
1:D:96:ALA:CB	1:D:498:ALA:HB1	2.43	0.49
1:E:307:ARG:HG2	1:E:307:ARG:NH1	2.26	0.49
1:F:107:ALA:O	1:F:110:LEU:HB2	2.13	0.49
1:F:111:LEU:HG	1:F:114:ASN:CB	2.40	0.49
1:F:117:PRO:HG3	1:F:511:ARG:HE	1.77	0.49
1:G:41:PRO:HA	1:G:161:LYS:HD3	1.94	0.49
1:G:483:MET:CE	1:G:485:GLU:HA	2.43	0.49
1:H:46:LYS:NZ	1:H:58:THR:HA	2.27	0.49
1:I:131:ALA:HB2	1:I:499:ILE:HG21	1.94	0.49
1:I:342:LEU:N	1:I:342:LEU:HD12	2.28	0.49
1:I:512:ILE:HA	1:P:45:ASP:HB3	1.93	0.49
1:J:6:GLY:C	1:J:8:LEU:H	2.20	0.49
1:J:41:PRO:HA	1:J:161:LYS:HD3	1.94	0.49
1:J:267:LYS:CD	1:J:270:LYS:HE2	2.41	0.49
1:J:323:ALA:HB3	1:J:335:GLN:HB3	1.93	0.49
1:J:425:ARG:CG	1:J:426:GLU:N	2.73	0.49
1:K:48:LEU:HD22	1:K:48:LEU:C	2.38	0.49
1:K:286:CYS:SG	1:K:288:LYS:C	2.96	0.49
1:L:111:LEU:HG	1:L:114:ASN:CB	2.40	0.49
1:L:194:LYS:NZ	1:L:316:LYS:HD2	2.27	0.49
1:L:213:LEU:HB3	1:L:366:THR:OG1	2.12	0.49
1:M:107:ALA:O	1:M:110:LEU:HB2	2.13	0.49
1:M:192:LEU:HD13	1:M:363:LYS:HZ1	1.77	0.49
1:M:377:ILE:HA	1:M:380:VAL:CG2	2.43	0.49
1:M:483:MET:CE	1:M:485:GLU:HA	2.43	0.49
1:N:46:LYS:NZ	1:N:58:THR:HA	2.27	0.49
1:N:216:LYS:O	1:N:217:GLU:HG2	2.13	0.49
1:N:369:ILE:HG13	1:N:370:ARG:H	1.76	0.49
1:N:410:GLU:OE1	1:N:413:MET:HG2	2.11	0.49
1:P:96:ALA:HB1	1:P:498:ALA:HB1	1.94	0.49
1:P:107:ALA:O	1:P:110:LEU:HB2	2.13	0.49
1:P:194:LYS:NZ	1:P:316:LYS:HD2	2.27	0.49
1:P:212:VAL:HG13	1:P:356:VAL:HG22	1.89	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:384:VAL:O	1:P:387:ALA:HB3	2.13	0.49
1:A:187:LYS:HZ2	1:B:347:LYS:CG	2.14	0.49
1:A:231:LYS:HA	1:A:341:GLY:CA	2.43	0.49
1:A:292:ASP:HA	1:A:295:GLN:OE1	2.13	0.49
1:B:377:ILE:HA	1:B:380:VAL:CG2	2.43	0.49
1:C:261:PHE:CD1	1:D:256:ALA:HB2	2.48	0.49
1:C:495:LYS:HA	1:C:498:ALA:HB3	1.95	0.49
1:D:96:ALA:HB1	1:D:498:ALA:HB1	1.94	0.49
1:D:107:ALA:O	1:D:110:LEU:HB2	2.13	0.49
1:D:377:ILE:HA	1:D:380:VAL:CG2	2.43	0.49
1:D:404:GLY:O	1:D:407:THR:HG23	2.13	0.49
1:D:483:MET:CE	1:D:485:GLU:HA	2.43	0.49
1:E:46:LYS:NZ	1:E:58:THR:HA	2.27	0.49
1:E:111:LEU:HG	1:E:114:ASN:CB	2.40	0.49
1:E:213:LEU:HB3	1:E:366:THR:OG1	2.12	0.49
1:E:216:LYS:O	1:E:217:GLU:HG2	2.13	0.49
1:E:377:ILE:HA	1:E:380:VAL:CG2	2.43	0.49
1:E:411:LEU:O	1:E:414:LYS:HB3	2.13	0.49
1:E:413:MET:SD	1:E:413:MET:C	2.95	0.49
1:E:442:ARG:HH22	1:E:456:LEU:CA	2.26	0.49
1:F:48:LEU:HD22	1:F:48:LEU:C	2.38	0.49
1:F:286:CYS:SG	1:F:288:LYS:C	2.96	0.49
1:F:495:LYS:HA	1:F:498:ALA:HB3	1.95	0.49
1:G:48:LEU:C	1:G:48:LEU:HD22	2.38	0.49
1:G:188:VAL:HG21	1:H:225:LYS:HZ2	1.78	0.49
1:H:342:LEU:HD12	1:H:342:LEU:N	2.28	0.49
1:H:520:LYS:H	1:H:520:LYS:HD3	1.77	0.49
1:I:68:MET:CA	1:J:520:LYS:HD2	2.40	0.49
1:I:436:ALA:O	1:I:439:VAL:HG22	2.12	0.49
1:J:483:MET:CE	1:J:485:GLU:HA	2.43	0.49
1:K:107:ALA:O	1:K:110:LEU:HB2	2.13	0.49
1:K:117:PRO:HG3	1:K:511:ARG:HE	1.77	0.49
1:K:217:GLU:HB3	1:K:219:VAL:H	1.77	0.49
1:L:144:ALA:HB2	1:L:400:ILE:CG1	2.22	0.49
1:L:342:LEU:HD12	1:L:342:LEU:N	2.27	0.49
1:L:377:ILE:HA	1:L:380:VAL:CG2	2.43	0.49
1:L:411:LEU:O	1:L:414:LYS:HB3	2.13	0.49
1:L:413:MET:C	1:L:413:MET:SD	2.95	0.49
1:L:436:ALA:O	1:L:439:VAL:HG22	2.11	0.49
1:L:442:ARG:HH22	1:L:456:LEU:CA	2.26	0.49
1:M:256:ALA:HB2	1:N:261:PHE:CD1	2.47	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:342:LEU:N	1:N:342:LEU:HD12	2.27	0.49
1:N:442:ARG:HH22	1:N:456:LEU:CA	2.26	0.49
1:O:374:GLU:HA	1:O:377:ILE:HG22	1.93	0.49
1:O:377:ILE:HA	1:O:380:VAL:CG2	2.43	0.49
1:P:214:VAL:HA	1:P:316:LYS:CG	2.42	0.49
1:P:231:LYS:HA	1:P:341:GLY:CA	2.43	0.49
1:A:214:VAL:HA	1:A:316:LYS:CG	2.42	0.49
1:A:482:ASP:CG	1:A:483:MET:H	2.21	0.49
1:B:194:LYS:NZ	1:B:316:LYS:HD2	2.27	0.49
1:B:208:LEU:HG	1:B:210:LYS:HA	1.95	0.49
1:B:292:ASP:HA	1:B:295:GLN:OE1	2.13	0.49
1:B:323:ALA:HB3	1:B:335:GLN:HB3	1.93	0.49
1:B:442:ARG:HH22	1:B:456:LEU:CA	2.26	0.49
1:B:450:LEU:HD13	1:N:450:LEU:CD2	2.42	0.49
1:C:410:GLU:OE1	1:C:413:MET:HG2	2.11	0.49
1:D:44:MET:CE	1:D:58:THR:HG21	2.24	0.49
1:D:103:LEU:C	1:D:105:ARG:H	2.21	0.49
1:D:384:VAL:O	1:D:387:ALA:HB3	2.13	0.49
1:E:96:ALA:CB	1:E:498:ALA:HB1	2.43	0.49
1:E:117:PRO:HG3	1:E:511:ARG:HE	1.77	0.49
1:E:217:GLU:HB3	1:E:219:VAL:H	1.77	0.49
1:E:342:LEU:HD12	1:E:342:LEU:N	2.27	0.49
1:E:384:VAL:O	1:E:387:ALA:HB3	2.13	0.49
1:E:436:ALA:O	1:E:439:VAL:HG22	2.11	0.49
1:F:41:PRO:HA	1:F:161:LYS:HD3	1.93	0.49
1:G:102:GLU:HG3	1:G:105:ARG:HH11	1.77	0.49
1:G:187:LYS:HZ2	1:H:347:LYS:CG	2.14	0.49
1:G:495:LYS:HA	1:G:498:ALA:HB3	1.95	0.49
1:H:96:ALA:CB	1:H:498:ALA:HB1	2.43	0.49
1:H:158:ILE:HG13	1:H:159:THR:N	2.27	0.49
1:H:442:ARG:O	1:H:445:ALA:HB3	2.13	0.49
1:I:251:ARG:HH11	1:P:258:LEU:CD2	2.23	0.49
1:I:286:CYS:SG	1:I:288:LYS:C	2.96	0.49
1:J:48:LEU:C	1:J:48:LEU:HD22	2.38	0.49
1:J:107:ALA:O	1:J:110:LEU:HB2	2.13	0.49
1:J:131:ALA:HB2	1:J:499:ILE:HG21	1.94	0.49
1:J:194:LYS:NZ	1:J:316:LYS:HD2	2.27	0.49
1:J:495:LYS:HA	1:J:498:ALA:HB3	1.95	0.49
1:K:41:PRO:HA	1:K:161:LYS:HD3	1.93	0.49
1:K:258:LEU:CD2	1:L:251:ARG:HH11	2.23	0.49
1:K:495:LYS:HA	1:K:498:ALA:HB3	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:46:LYS:NZ	1:L:58:THR:HA	2.27	0.49
1:L:68:MET:H	1:M:520:LYS:CE	2.25	0.49
1:L:216:LYS:O	1:L:217:GLU:HG2	2.13	0.49
1:L:404:GLY:O	1:L:407:THR:HG23	2.13	0.49
1:M:103:LEU:C	1:M:105:ARG:H	2.21	0.49
1:M:384:VAL:O	1:M:387:ALA:HB3	2.13	0.49
1:M:404:GLY:O	1:M:407:THR:HG23	2.13	0.49
1:N:411:LEU:O	1:N:414:LYS:HB3	2.13	0.49
1:N:495:LYS:HA	1:N:498:ALA:HB3	1.95	0.49
1:O:87:LYS:O	1:O:88:GLU:HB3	2.10	0.49
1:O:292:ASP:HA	1:O:295:GLN:OE1	2.13	0.49
1:O:323:ALA:HB3	1:O:335:GLN:HB3	1.93	0.49
1:O:410:GLU:OE1	1:O:413:MET:HG2	2.11	0.49
1:P:208:LEU:HG	1:P:210:LYS:CA	2.43	0.49
1:A:107:ALA:O	1:A:110:LEU:HB2	2.13	0.49
1:A:168:GLU:C	1:A:170:LEU:N	2.67	0.49
1:A:208:LEU:HG	1:A:210:LYS:CA	2.43	0.49
1:A:286:CYS:SG	1:A:288:LYS:C	2.96	0.49
1:B:96:ALA:CB	1:B:498:ALA:HB1	2.43	0.49
1:B:131:ALA:HB2	1:B:499:ILE:HG21	1.94	0.49
1:B:374:GLU:HA	1:B:377:ILE:HG22	1.94	0.49
1:B:410:GLU:OE1	1:B:413:MET:HG2	2.11	0.49
1:B:450:LEU:CD2	1:N:450:LEU:HD13	2.42	0.49
1:C:96:ALA:CB	1:C:498:ALA:HB1	2.43	0.49
1:C:411:LEU:O	1:C:414:LYS:HB3	2.13	0.49
1:D:187:LYS:CG	1:E:347:LYS:HB3	2.42	0.49
1:D:188:VAL:HG21	1:E:225:LYS:HZ2	1.78	0.49
1:E:214:VAL:HA	1:E:316:LYS:CG	2.42	0.49
1:E:251:ARG:HH11	1:F:258:LEU:CD2	2.23	0.49
1:E:292:ASP:HA	1:E:295:GLN:OE1	2.13	0.49
1:E:404:GLY:O	1:E:407:THR:HG23	2.13	0.49
1:F:86:GLU:O	1:F:89:VAL:HG12	2.13	0.49
1:F:302:GLY:O	1:F:304:VAL:N	2.44	0.49
1:G:103:LEU:HD22	1:G:106:LYS:HB3	1.95	0.49
1:G:107:ALA:O	1:G:110:LEU:HB2	2.13	0.49
1:G:131:ALA:HB2	1:G:499:ILE:HG21	1.94	0.49
1:G:425:ARG:CG	1:G:426:GLU:N	2.73	0.49
1:G:520:LYS:HD2	1:H:68:MET:CA	2.40	0.49
1:H:57:VAL:O	1:H:58:THR:HG23	2.13	0.49
1:H:286:CYS:SG	1:H:288:LYS:C	2.96	0.49
1:H:436:ALA:O	1:H:439:VAL:HG22	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:57:VAL:O	1:I:58:THR:HG23	2.13	0.49
1:I:158:ILE:HG13	1:I:159:THR:N	2.27	0.49
1:I:231:LYS:HA	1:I:341:GLY:CA	2.43	0.49
1:I:442:ARG:O	1:I:445:ALA:HB3	2.13	0.49
1:J:102:GLU:HG3	1:J:105:ARG:HH11	1.77	0.49
1:J:103:LEU:HD22	1:J:106:LYS:HB3	1.95	0.49
1:K:86:GLU:O	1:K:89:VAL:HG12	2.13	0.49
1:L:96:ALA:CB	1:L:498:ALA:HB1	2.43	0.49
1:L:117:PRO:HG3	1:L:511:ARG:HE	1.77	0.49
1:L:214:VAL:HA	1:L:316:LYS:CG	2.42	0.49
1:L:292:ASP:HA	1:L:295:GLN:OE1	2.13	0.49
1:L:384:VAL:O	1:L:387:ALA:HB3	2.13	0.49
1:L:520:LYS:H	1:L:520:LYS:HD3	1.77	0.49
1:M:96:ALA:HB1	1:M:498:ALA:HB1	1.94	0.49
1:N:96:ALA:CB	1:N:498:ALA:HB1	2.43	0.49
1:O:208:LEU:HG	1:O:210:LYS:HA	1.95	0.49
1:P:292:ASP:HA	1:P:295:GLN:OE1	2.13	0.49
1:P:483:MET:CE	1:P:485:GLU:HA	2.43	0.49
1:B:6:GLY:C	1:B:8:LEU:H	2.20	0.48
1:B:57:VAL:O	1:B:58:THR:HG23	2.13	0.48
1:B:137:THR:CG2	1:B:401:VAL:HA	2.42	0.48
1:C:404:GLY:O	1:C:407:THR:HG23	2.13	0.48
1:D:194:LYS:NZ	1:D:316:LYS:HD2	2.27	0.48
1:D:307:ARG:HG2	1:D:307:ARG:NH1	2.26	0.48
1:D:418:TYR:C	1:D:420:GLU:H	2.21	0.48
1:D:442:ARG:O	1:D:445:ALA:HB3	2.13	0.48
1:D:520:LYS:CE	1:E:68:MET:H	2.25	0.48
1:F:10:GLU:C	1:F:14:ARG:HH22	2.21	0.48
1:F:342:LEU:N	1:F:342:LEU:HD12	2.28	0.48
1:G:86:GLU:O	1:G:89:VAL:HG12	2.13	0.48
1:G:168:GLU:C	1:G:170:LEU:N	2.67	0.48
1:G:194:LYS:NZ	1:G:316:LYS:HD2	2.27	0.48
1:H:194:LYS:NZ	1:H:316:LYS:HD2	2.27	0.48
1:H:231:LYS:HA	1:H:341:GLY:CA	2.43	0.48
1:I:96:ALA:CB	1:I:498:ALA:HB1	2.43	0.48
1:I:292:ASP:HA	1:I:295:GLN:OE1	2.13	0.48
1:I:384:VAL:O	1:I:387:ALA:HB3	2.13	0.48
1:I:468:ASN:O	1:I:469:LYS:HB3	2.13	0.48
1:J:86:GLU:O	1:J:89:VAL:HG12	2.13	0.48
1:J:329:ILE:HG23	1:J:330:LYS:N	2.20	0.48
1:J:377:ILE:HA	1:J:380:VAL:CG2	2.43	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:356:VAL:HG23	1:K:357:GLU:N	2.28	0.48
1:L:217:GLU:HB3	1:L:219:VAL:H	1.77	0.48
1:L:225:LYS:HZ2	1:M:188:VAL:HG21	1.78	0.48
1:M:194:LYS:NZ	1:M:316:LYS:HD2	2.27	0.48
1:M:418:TYR:C	1:M:420:GLU:H	2.21	0.48
1:N:404:GLY:O	1:N:407:THR:HG23	2.13	0.48
1:O:96:ALA:CB	1:O:498:ALA:HB1	2.43	0.48
1:O:131:ALA:HB2	1:O:499:ILE:HG21	1.94	0.48
1:O:194:LYS:NZ	1:O:316:LYS:HD2	2.27	0.48
1:O:342:LEU:O	1:O:357:GLU:HB3	2.13	0.48
1:O:347:LYS:CG	1:P:187:LYS:HZ2	2.14	0.48
1:O:384:VAL:O	1:O:387:ALA:HB3	2.13	0.48
1:O:411:LEU:O	1:O:414:LYS:HB3	2.13	0.48
1:O:442:ARG:HH22	1:O:456:LEU:CA	2.26	0.48
1:P:60:ASP:HB2	1:P:63:THR:HG22	1.95	0.48
1:P:286:CYS:SG	1:P:288:LYS:C	2.96	0.48
1:A:212:VAL:HG13	1:A:356:VAL:HG22	1.90	0.48
1:A:216:LYS:O	1:A:217:GLU:HG2	2.13	0.48
1:A:442:ARG:HH22	1:A:456:LEU:CA	2.26	0.48
1:A:483:MET:CE	1:A:485:GLU:HA	2.43	0.48
1:B:60:ASP:HB2	1:B:63:THR:HG22	1.95	0.48
1:B:342:LEU:O	1:B:357:GLU:HB3	2.14	0.48
1:B:411:LEU:O	1:B:414:LYS:HB3	2.13	0.48
1:C:103:LEU:C	1:C:105:ARG:H	2.21	0.48
1:C:450:LEU:HD13	1:O:450:LEU:CD2	2.42	0.48
1:D:286:CYS:SG	1:D:288:LYS:C	2.96	0.48
1:D:411:LEU:O	1:D:414:LYS:HB3	2.13	0.48
1:E:102:GLU:HG3	1:E:105:ARG:HH11	1.77	0.48
1:E:103:LEU:HD22	1:E:106:LYS:HB3	1.95	0.48
1:E:512:ILE:HD13	1:F:45:ASP:HB3	1.95	0.48
1:E:520:LYS:H	1:E:520:LYS:HD3	1.77	0.48
1:F:356:VAL:HG23	1:F:357:GLU:N	2.28	0.48
1:F:411:LEU:O	1:F:414:LYS:HB3	2.13	0.48
1:G:57:VAL:O	1:G:58:THR:HG23	2.13	0.48
1:G:246:THR:C	1:G:248:ALA:N	2.64	0.48
1:G:286:CYS:SG	1:G:288:LYS:C	2.96	0.48
1:G:384:VAL:O	1:G:387:ALA:HB3	2.13	0.48
1:H:292:ASP:HA	1:H:295:GLN:OE1	2.13	0.48
1:H:384:VAL:O	1:H:387:ALA:HB3	2.13	0.48
1:H:442:ARG:HH22	1:H:456:LEU:CA	2.26	0.48
1:H:468:ASN:O	1:H:469:LYS:HB3	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:194:LYS:NZ	1:I:316:LYS:HD2	2.27	0.48
1:I:377:ILE:HA	1:I:380:VAL:CG2	2.43	0.48
1:I:442:ARG:HH22	1:I:456:LEU:CA	2.26	0.48
1:J:57:VAL:O	1:J:58:THR:HG23	2.13	0.48
1:J:96:ALA:HB1	1:J:498:ALA:HB1	1.94	0.48
1:K:10:GLU:C	1:K:14:ARG:HH22	2.21	0.48
1:K:45:ASP:HB3	1:L:512:ILE:HD13	1.95	0.48
1:K:292:ASP:HA	1:K:295:GLN:OE1	2.13	0.48
1:K:302:GLY:O	1:K:304:VAL:N	2.44	0.48
1:K:411:LEU:O	1:K:414:LYS:HB3	2.13	0.48
1:L:103:LEU:C	1:L:105:ARG:H	2.21	0.48
1:L:347:LYS:HB3	1:M:187:LYS:CG	2.42	0.48
1:L:418:TYR:C	1:L:420:GLU:N	2.70	0.48
1:M:286:CYS:SG	1:M:288:LYS:C	2.96	0.48
1:M:307:ARG:HG2	1:M:307:ARG:NH1	2.26	0.48
1:M:442:ARG:O	1:M:445:ALA:HB3	2.13	0.48
1:O:45:ASP:HB3	1:P:512:ILE:HD13	1.95	0.48
1:O:57:VAL:O	1:O:58:THR:HG23	2.13	0.48
1:O:60:ASP:HB2	1:O:63:THR:HG22	1.95	0.48
1:O:483:MET:CE	1:O:485:GLU:HA	2.43	0.48
1:O:495:LYS:HA	1:O:498:ALA:HB3	1.95	0.48
1:P:96:ALA:CB	1:P:498:ALA:HB1	2.43	0.48
1:P:468:ASN:O	1:P:469:LYS:HB3	2.13	0.48
1:A:261:PHE:CD1	1:B:256:ALA:HB2	2.48	0.48
1:A:450:LEU:CD2	1:M:450:LEU:HD13	2.42	0.48
1:A:468:ASN:O	1:A:469:LYS:HB3	2.13	0.48
1:A:512:ILE:HA	1:B:45:ASP:HB3	1.93	0.48
1:B:231:LYS:HA	1:B:341:GLY:CA	2.43	0.48
1:C:342:LEU:O	1:C:357:GLU:HB3	2.14	0.48
1:C:377:ILE:HA	1:C:380:VAL:CG2	2.43	0.48
1:D:117:PRO:HG3	1:D:511:ARG:HE	1.77	0.48
1:E:137:THR:HG23	1:E:401:VAL:HA	1.96	0.48
1:E:482:ASP:CG	1:E:483:MET:H	2.22	0.48
1:F:96:ALA:HB1	1:F:498:ALA:HB1	1.94	0.48
1:F:194:LYS:NZ	1:F:316:LYS:HD2	2.27	0.48
1:F:251:ARG:NH2	1:F:252:ILE:HD11	2.28	0.48
1:F:292:ASP:HA	1:F:295:GLN:OE1	2.13	0.48
1:F:482:ASP:CG	1:F:483:MET:H	2.21	0.48
1:G:96:ALA:HB1	1:G:498:ALA:HB1	1.94	0.48
1:G:194:LYS:HZ1	1:G:316:LYS:HD2	1.77	0.48
1:G:377:ILE:HA	1:G:380:VAL:CG2	2.43	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:512:ILE:HD13	1:H:45:ASP:HB3	1.95	0.48
1:H:342:LEU:O	1:H:357:GLU:HB3	2.13	0.48
1:H:377:ILE:HA	1:H:380:VAL:CG2	2.43	0.48
1:I:45:ASP:HB3	1:J:512:ILE:HD13	1.95	0.48
1:I:510:LEU:C	1:I:512:ILE:N	2.67	0.48
1:J:10:GLU:C	1:J:14:ARG:HH22	2.21	0.48
1:J:194:LYS:HZ1	1:J:316:LYS:HD2	1.77	0.48
1:J:384:VAL:O	1:J:387:ALA:HB3	2.13	0.48
1:K:96:ALA:CB	1:K:498:ALA:HB1	2.43	0.48
1:K:342:LEU:N	1:K:342:LEU:HD12	2.28	0.48
1:L:42:LYS:HZ1	1:L:446:GLU:HA	1.78	0.48
1:L:86:GLU:O	1:L:89:VAL:HG12	2.13	0.48
1:L:103:LEU:HD22	1:L:106:LYS:HB3	1.95	0.48
1:L:482:ASP:CG	1:L:483:MET:H	2.22	0.48
1:L:515:VAL:HG22	1:L:517:ALA:N	2.26	0.48
1:M:208:LEU:CG	1:M:210:LYS:H	2.26	0.48
1:M:374:GLU:HA	1:M:377:ILE:HG22	1.93	0.48
1:M:411:LEU:O	1:M:414:LYS:HB3	2.13	0.48
1:N:342:LEU:O	1:N:357:GLU:HB3	2.14	0.48
1:N:377:ILE:HA	1:N:380:VAL:CG2	2.43	0.48
1:O:96:ALA:HB1	1:O:498:ALA:HB1	1.94	0.48
1:O:102:GLU:HG3	1:O:105:ARG:HH11	1.77	0.48
1:O:231:LYS:HA	1:O:341:GLY:CA	2.43	0.48
1:O:256:ALA:HB2	1:P:261:PHE:CD1	2.47	0.48
1:P:57:VAL:O	1:P:58:THR:HG23	2.13	0.48
1:P:411:LEU:O	1:P:414:LYS:HB3	2.13	0.48
1:A:117:PRO:CG	1:A:511:ARG:HE	2.27	0.48
1:B:96:ALA:HB1	1:B:498:ALA:HB1	1.94	0.48
1:B:137:THR:HG23	1:B:401:VAL:HA	1.96	0.48
1:B:384:VAL:O	1:B:387:ALA:HB3	2.13	0.48
1:B:483:MET:CE	1:B:485:GLU:HA	2.43	0.48
1:B:495:LYS:HA	1:B:498:ALA:HB3	1.95	0.48
1:C:137:THR:HG23	1:C:401:VAL:HA	1.96	0.48
1:C:442:ARG:O	1:C:445:ALA:HB3	2.13	0.48
1:D:208:LEU:CG	1:D:210:LYS:H	2.26	0.48
1:D:450:LEU:HD13	1:P:450:LEU:CD2	2.42	0.48
1:D:482:ASP:CG	1:D:483:MET:H	2.21	0.48
1:E:42:LYS:HZ1	1:E:446:GLU:HA	1.78	0.48
1:E:86:GLU:O	1:E:89:VAL:HG12	2.13	0.48
1:E:103:LEU:C	1:E:105:ARG:H	2.21	0.48
1:F:96:ALA:CB	1:F:498:ALA:HB1	2.43	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:123:GLY:O	1:F:430:VAL:HG13	2.14	0.48
1:F:137:THR:HG23	1:F:401:VAL:HA	1.96	0.48
1:G:10:GLU:C	1:G:14:ARG:HH22	2.21	0.48
1:G:187:LYS:NZ	1:H:347:LYS:NZ	2.62	0.48
1:H:86:GLU:O	1:H:89:VAL:HG12	2.13	0.48
1:H:418:TYR:C	1:H:420:GLU:N	2.70	0.48
1:H:510:LEU:C	1:H:512:ILE:N	2.67	0.48
1:I:216:LYS:O	1:I:217:GLU:HG2	2.13	0.48
1:I:342:LEU:O	1:I:357:GLU:HB3	2.13	0.48
1:I:347:LYS:NZ	1:J:187:LYS:NZ	2.62	0.48
1:I:418:TYR:C	1:I:420:GLU:N	2.70	0.48
1:J:286:CYS:SG	1:J:288:LYS:C	2.96	0.48
1:K:96:ALA:HB1	1:K:498:ALA:HB1	1.94	0.48
1:K:123:GLY:O	1:K:430:VAL:HG13	2.14	0.48
1:K:137:THR:HG23	1:K:401:VAL:HA	1.96	0.48
1:K:404:GLY:O	1:K:407:THR:HG23	2.13	0.48
1:L:102:GLU:HG3	1:L:105:ARG:HH11	1.77	0.48
1:L:137:THR:HG23	1:L:401:VAL:HA	1.96	0.48
1:N:103:LEU:C	1:N:105:ARG:H	2.21	0.48
1:N:137:THR:HG23	1:N:401:VAL:HA	1.96	0.48
1:O:72:HIS:CG	1:O:73:PRO:HD2	2.49	0.48
1:O:356:VAL:HG23	1:O:357:GLU:N	2.28	0.48
1:P:192:LEU:HD22	1:P:363:LYS:HD3	1.96	0.48
1:P:216:LYS:O	1:P:217:GLU:HG2	2.13	0.48
1:P:482:ASP:CG	1:P:483:MET:H	2.22	0.48
1:A:96:ALA:CB	1:A:498:ALA:HB1	2.43	0.48
1:A:342:LEU:O	1:A:357:GLU:HB3	2.14	0.48
1:A:411:LEU:O	1:A:414:LYS:HB3	2.13	0.48
1:A:495:LYS:HA	1:A:498:ALA:HB3	1.95	0.48
1:B:61:GLY:CA	1:B:94:THR:HG21	2.32	0.48
1:B:72:HIS:CG	1:B:73:PRO:HD2	2.49	0.48
1:B:356:VAL:HG23	1:B:357:GLU:N	2.29	0.48
1:C:86:GLU:O	1:C:89:VAL:HG12	2.13	0.48
1:C:187:LYS:NZ	1:D:347:LYS:NZ	2.62	0.48
1:D:342:LEU:O	1:D:357:GLU:HB3	2.13	0.48
1:D:374:GLU:HA	1:D:377:ILE:HG22	1.93	0.48
1:E:10:GLU:C	1:E:14:ARG:HH22	2.21	0.48
1:E:11:ASN:HD21	1:E:12:MET:HE2	1.78	0.48
1:E:196:GLU:C	1:E:368:LEU:HB2	2.39	0.48
1:E:323:ALA:HB3	1:E:335:GLN:HB3	1.93	0.48
1:E:418:TYR:C	1:E:420:GLU:N	2.70	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:404:GLY:O	1:F:407:THR:HG23	2.13	0.48
1:F:418:TYR:C	1:F:420:GLU:H	2.21	0.48
1:G:123:GLY:O	1:G:430:VAL:HG13	2.14	0.48
1:G:214:VAL:HA	1:G:316:LYS:CG	2.42	0.48
1:G:251:ARG:HH11	1:H:258:LEU:CD2	2.23	0.48
1:G:329:ILE:HG23	1:G:330:LYS:N	2.20	0.48
1:G:442:ARG:O	1:G:445:ALA:HB3	2.13	0.48
1:H:60:ASP:HB2	1:H:63:THR:HG22	1.95	0.48
1:H:192:LEU:HD22	1:H:363:LYS:HD3	1.95	0.48
1:H:207:GLU:CD	1:H:208:LEU:N	2.72	0.48
1:H:216:LYS:O	1:H:217:GLU:HG2	2.13	0.48
1:H:410:GLU:HB3	1:H:463:HIS:CD2	2.49	0.48
1:H:495:LYS:HA	1:H:498:ALA:HB3	1.95	0.48
1:I:86:GLU:O	1:I:89:VAL:HG12	2.13	0.48
1:I:102:GLU:HG3	1:I:105:ARG:HH11	1.77	0.48
1:I:207:GLU:CD	1:I:208:LEU:N	2.72	0.48
1:I:410:GLU:HB3	1:I:463:HIS:CD2	2.49	0.48
1:I:495:LYS:HA	1:I:498:ALA:HB3	1.95	0.48
1:J:20:ALA:HB1	1:J:516:ILE:CG1	2.39	0.48
1:J:123:GLY:O	1:J:430:VAL:HG13	2.14	0.48
1:J:214:VAL:HA	1:J:316:LYS:CG	2.42	0.48
1:J:442:ARG:O	1:J:445:ALA:HB3	2.13	0.48
1:K:103:LEU:HD22	1:K:106:LYS:HB3	1.95	0.48
1:K:158:ILE:HG13	1:K:159:THR:N	2.27	0.48
1:K:251:ARG:NH2	1:K:252:ILE:HD11	2.28	0.48
1:K:342:LEU:O	1:K:357:GLU:HB3	2.13	0.48
1:K:482:ASP:CG	1:K:483:MET:H	2.21	0.48
1:L:11:ASN:HD21	1:L:12:MET:HE2	1.78	0.48
1:L:302:GLY:O	1:L:304:VAL:N	2.44	0.48
1:M:117:PRO:HG3	1:M:511:ARG:HE	1.77	0.48
1:M:137:THR:HG23	1:M:401:VAL:HA	1.96	0.48
1:M:347:LYS:NZ	1:N:187:LYS:NZ	2.62	0.48
1:M:442:ARG:HH22	1:M:456:LEU:CA	2.26	0.48
1:M:482:ASP:CG	1:M:483:MET:H	2.21	0.48
1:N:307:ARG:HG2	1:N:307:ARG:NH1	2.26	0.48
1:N:384:VAL:O	1:N:387:ALA:HB3	2.13	0.48
1:N:442:ARG:O	1:N:445:ALA:HB3	2.13	0.48
1:N:515:VAL:HG22	1:N:517:ALA:N	2.26	0.48
1:O:137:THR:HG23	1:O:401:VAL:HA	1.96	0.48
1:O:468:ASN:O	1:O:469:LYS:HB3	2.13	0.48
1:P:11:ASN:HD21	1:P:12:MET:HE2	1.78	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:342:LEU:O	1:P:357:GLU:HB3	2.14	0.48
1:P:442:ARG:HH22	1:P:456:LEU:CA	2.26	0.48
1:P:495:LYS:HA	1:P:498:ALA:HB3	1.95	0.48
1:A:11:ASN:HD21	1:A:12:MET:HE2	1.78	0.48
1:A:45:ASP:HB3	1:H:512:ILE:HD13	1.95	0.48
1:A:57:VAL:O	1:A:58:THR:HG23	2.14	0.48
1:A:57:VAL:HG13	1:A:58:THR:N	2.28	0.48
1:A:192:LEU:HD22	1:A:363:LYS:HD3	1.96	0.48
1:B:147:LYS:HD2	1:B:147:LYS:H	1.79	0.48
1:B:251:ARG:NH2	1:B:252:ILE:HD11	2.28	0.48
1:B:482:ASP:CG	1:B:483:MET:H	2.21	0.48
1:B:512:ILE:HD13	1:C:45:ASP:HB3	1.95	0.48
1:C:11:ASN:HD21	1:C:12:MET:HE2	1.78	0.48
1:C:207:GLU:CD	1:C:208:LEU:N	2.72	0.48
1:C:286:CYS:SG	1:C:288:LYS:C	2.96	0.48
1:C:307:ARG:HG2	1:C:307:ARG:NH1	2.26	0.48
1:C:384:VAL:O	1:C:387:ALA:HB3	2.13	0.48
1:D:48:LEU:C	1:D:48:LEU:HD22	2.38	0.48
1:D:137:THR:HG23	1:D:401:VAL:HA	1.96	0.48
1:D:207:GLU:CD	1:D:208:LEU:N	2.72	0.48
1:D:251:ARG:NH2	1:D:252:ILE:HD11	2.28	0.48
1:D:442:ARG:HH22	1:D:456:LEU:CA	2.26	0.48
1:E:208:LEU:HA	1:E:367:MET:SD	2.54	0.48
1:E:231:LYS:HA	1:E:341:GLY:CA	2.43	0.48
1:E:302:GLY:O	1:E:304:VAL:N	2.44	0.48
1:E:515:VAL:HG22	1:E:517:ALA:N	2.26	0.48
1:F:103:LEU:HD22	1:F:106:LYS:HB3	1.95	0.48
1:F:131:ALA:HB2	1:F:499:ILE:HG21	1.94	0.48
1:F:187:LYS:NZ	1:G:347:LYS:NZ	2.62	0.48
1:F:192:LEU:HD22	1:F:363:LYS:HD3	1.95	0.48
1:F:342:LEU:O	1:F:357:GLU:HB3	2.13	0.48
1:F:418:TYR:C	1:F:420:GLU:N	2.70	0.48
1:G:57:VAL:HG13	1:G:58:THR:N	2.29	0.48
1:G:208:LEU:HG	1:G:210:LYS:CA	2.43	0.48
1:G:468:ASN:O	1:G:469:LYS:HB3	2.13	0.48
1:H:11:ASN:HD21	1:H:12:MET:HE2	1.78	0.48
1:H:96:ALA:HB1	1:H:498:ALA:HB1	1.94	0.48
1:H:103:LEU:HD22	1:H:106:LYS:HB3	1.95	0.48
1:H:134:LEU:HB2	1:H:138:ILE:HG13	1.95	0.48
1:H:147:LYS:H	1:H:147:LYS:HD2	1.79	0.48
1:I:11:ASN:HD21	1:I:12:MET:HE2	1.78	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:60:ASP:HB2	1:I:63:THR:HG22	1.95	0.48
1:I:192:LEU:HD22	1:I:363:LYS:HD3	1.95	0.48
1:J:57:VAL:HG13	1:J:58:THR:N	2.29	0.48
1:J:192:LEU:HD22	1:J:363:LYS:HD3	1.96	0.48
1:J:216:LYS:O	1:J:217:GLU:HG2	2.13	0.48
1:J:347:LYS:NZ	1:K:187:LYS:NZ	2.62	0.48
1:J:468:ASN:O	1:J:469:LYS:HB3	2.13	0.48
1:K:68:MET:CA	1:L:520:LYS:HD2	2.40	0.48
1:K:131:ALA:HB2	1:K:499:ILE:HG21	1.94	0.48
1:K:192:LEU:HD22	1:K:363:LYS:HD3	1.95	0.48
1:K:377:ILE:HA	1:K:380:VAL:CG2	2.43	0.48
1:L:10:GLU:C	1:L:14:ARG:HH22	2.21	0.48
1:L:196:GLU:C	1:L:368:LEU:HB2	2.39	0.48
1:L:323:ALA:HB3	1:L:335:GLN:HB3	1.93	0.48
1:L:347:LYS:NZ	1:M:187:LYS:NZ	2.62	0.48
1:L:410:GLU:HB3	1:L:463:HIS:CD2	2.49	0.48
1:M:45:ASP:HB3	1:N:512:ILE:HD13	1.95	0.48
1:M:48:LEU:C	1:M:48:LEU:HD22	2.38	0.48
1:M:147:LYS:H	1:M:147:LYS:HD2	1.79	0.48
1:M:251:ARG:NH2	1:M:252:ILE:HD11	2.28	0.48
1:N:86:GLU:O	1:N:89:VAL:HG12	2.13	0.48
1:N:214:VAL:HA	1:N:316:LYS:CG	2.42	0.48
1:N:261:PHE:CD1	1:N:261:PHE:N	2.81	0.48
1:O:61:GLY:CA	1:O:94:THR:HG21	2.32	0.48
1:O:103:LEU:HD22	1:O:106:LYS:HB3	1.95	0.48
1:O:147:LYS:H	1:O:147:LYS:HD2	1.79	0.48
1:O:251:ARG:NH2	1:O:252:ILE:HD11	2.28	0.48
1:O:418:TYR:C	1:O:420:GLU:H	2.21	0.48
1:P:356:VAL:HG23	1:P:357:GLU:N	2.28	0.48
1:P:377:ILE:HA	1:P:380:VAL:CG2	2.43	0.48
1:A:48:LEU:C	1:A:48:LEU:HD22	2.38	0.48
1:A:261:PHE:CD1	1:A:261:PHE:N	2.81	0.48
1:A:377:ILE:HA	1:A:380:VAL:CG2	2.43	0.48
1:B:102:GLU:HG3	1:B:105:ARG:HH11	1.77	0.48
1:B:107:ALA:O	1:B:110:LEU:HB2	2.13	0.48
1:B:418:TYR:C	1:B:420:GLU:H	2.20	0.48
1:C:261:PHE:CD1	1:C:261:PHE:N	2.81	0.48
1:C:482:ASP:CG	1:C:483:MET:H	2.22	0.48
1:C:512:ILE:HD13	1:D:45:ASP:HB3	1.95	0.48
1:C:515:VAL:HG22	1:C:517:ALA:N	2.26	0.48
1:D:11:ASN:HD21	1:D:12:MET:HE2	1.78	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:57:VAL:HG13	1:D:58:THR:N	2.29	0.48
1:D:60:ASP:HB2	1:D:63:THR:HG22	1.95	0.48
1:D:61:GLY:CA	1:D:94:THR:HG21	2.32	0.48
1:D:134:LEU:HB2	1:D:138:ILE:HG13	1.95	0.48
1:D:147:LYS:H	1:D:147:LYS:HD2	1.79	0.48
1:D:187:LYS:NZ	1:E:347:LYS:NZ	2.62	0.48
1:D:231:LYS:HA	1:D:341:GLY:CA	2.43	0.48
1:D:292:ASP:HA	1:D:295:GLN:OE1	2.13	0.48
1:E:134:LEU:HB2	1:E:138:ILE:HG13	1.95	0.48
1:E:284:LEU:HD21	1:E:304:VAL:HG23	1.96	0.48
1:E:286:CYS:SG	1:E:288:LYS:C	2.96	0.48
1:E:410:GLU:HB3	1:E:463:HIS:CD2	2.49	0.48
1:E:442:ARG:O	1:E:445:ALA:HB3	2.13	0.48
1:F:158:ILE:HG13	1:F:159:THR:N	2.27	0.48
1:F:208:LEU:HA	1:F:367:MET:SD	2.54	0.48
1:F:377:ILE:HA	1:F:380:VAL:CG2	2.43	0.48
1:G:20:ALA:HB1	1:G:516:ILE:CG1	2.39	0.48
1:H:102:GLU:HG3	1:H:105:ARG:HH11	1.77	0.48
1:H:196:GLU:C	1:H:368:LEU:HB2	2.39	0.48
1:H:483:MET:CE	1:H:485:GLU:HA	2.43	0.48
1:I:96:ALA:HB1	1:I:498:ALA:HB1	1.94	0.48
1:I:147:LYS:H	1:I:147:LYS:HD2	1.79	0.48
1:I:196:GLU:C	1:I:368:LEU:HB2	2.39	0.48
1:I:482:ASP:CG	1:I:483:MET:H	2.21	0.48
1:J:54:ASP:N	1:K:522:ARG:NH1	2.58	0.48
1:J:442:ARG:HH22	1:J:456:LEU:CA	2.26	0.48
1:K:60:ASP:HB2	1:K:63:THR:HG22	1.95	0.48
1:K:208:LEU:HA	1:K:367:MET:SD	2.54	0.48
1:K:418:TYR:C	1:K:420:GLU:H	2.21	0.48
1:L:68:MET:CA	1:M:520:LYS:HD2	2.40	0.48
1:L:134:LEU:HB2	1:L:138:ILE:HG13	1.95	0.48
1:L:208:LEU:HA	1:L:367:MET:SD	2.54	0.48
1:L:231:LYS:HA	1:L:341:GLY:CA	2.43	0.48
1:M:11:ASN:HD21	1:M:12:MET:HE2	1.78	0.48
1:M:57:VAL:HG13	1:M:58:THR:N	2.29	0.48
1:M:60:ASP:HB2	1:M:63:THR:HG22	1.95	0.48
1:M:207:GLU:CD	1:M:208:LEU:N	2.72	0.48
1:M:216:LYS:O	1:M:217:GLU:HG2	2.13	0.48
1:M:342:LEU:O	1:M:357:GLU:HB3	2.13	0.48
1:N:11:ASN:HD21	1:N:12:MET:HE2	1.78	0.48
1:N:207:GLU:CD	1:N:208:LEU:N	2.72	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:253:THR:OG1	1:O:250:ILE:HG21	2.14	0.48
1:N:483:MET:CE	1:N:485:GLU:HA	2.43	0.48
1:O:107:ALA:O	1:O:110:LEU:HB2	2.13	0.48
1:O:208:LEU:HA	1:O:367:MET:SD	2.54	0.48
1:O:520:LYS:H	1:O:520:LYS:HD3	1.77	0.48
1:P:48:LEU:HD22	1:P:48:LEU:C	2.38	0.48
1:P:134:LEU:HB2	1:P:138:ILE:HG13	1.95	0.48
1:P:137:THR:HG23	1:P:401:VAL:HA	1.96	0.48
1:P:208:LEU:HA	1:P:367:MET:SD	2.54	0.48
1:P:261:PHE:CD1	1:P:261:PHE:N	2.81	0.48
1:A:72:HIS:CG	1:A:73:PRO:HD2	2.49	0.48
1:A:86:GLU:O	1:A:89:VAL:HG12	2.13	0.48
1:A:134:LEU:HB2	1:A:138:ILE:HG13	1.95	0.48
1:A:347:LYS:NZ	1:H:187:LYS:NZ	2.62	0.48
1:A:356:VAL:HG23	1:A:357:GLU:N	2.28	0.48
1:B:117:PRO:CG	1:B:511:ARG:HE	2.27	0.48
1:B:207:GLU:CD	1:B:208:LEU:N	2.72	0.48
1:B:342:LEU:HD12	1:B:342:LEU:N	2.27	0.48
1:B:468:ASN:O	1:B:469:LYS:HB3	2.13	0.48
1:C:117:PRO:CG	1:C:511:ARG:HE	2.27	0.48
1:C:208:LEU:HA	1:C:367:MET:SD	2.54	0.48
1:C:292:ASP:HA	1:C:295:GLN:OE1	2.13	0.48
1:C:483:MET:CE	1:C:485:GLU:HA	2.43	0.48
1:D:216:LYS:O	1:D:217:GLU:HG2	2.13	0.48
1:E:123:GLY:O	1:E:430:VAL:HG13	2.14	0.48
1:E:131:ALA:HB2	1:E:499:ILE:HG21	1.94	0.48
1:E:187:LYS:NZ	1:F:347:LYS:NZ	2.62	0.48
1:E:342:LEU:O	1:E:357:GLU:HB3	2.14	0.48
1:E:520:LYS:HD2	1:F:68:MET:CA	2.40	0.48
1:F:60:ASP:HB2	1:F:63:THR:HG22	1.95	0.48
1:F:207:GLU:CD	1:F:208:LEU:N	2.72	0.48
1:F:520:LYS:CE	1:G:68:MET:H	2.25	0.48
1:G:192:LEU:HD22	1:G:363:LYS:HD3	1.96	0.48
1:G:196:GLU:C	1:G:368:LEU:HB2	2.39	0.48
1:G:216:LYS:O	1:G:217:GLU:HG2	2.13	0.48
1:G:418:TYR:C	1:G:420:GLU:N	2.70	0.48
1:H:137:THR:HG23	1:H:401:VAL:HA	1.96	0.48
1:H:284:LEU:HD21	1:H:304:VAL:HG23	1.96	0.48
1:I:103:LEU:HD22	1:I:106:LYS:HB3	1.95	0.48
1:I:134:LEU:HB2	1:I:138:ILE:HG13	1.95	0.48
1:I:137:THR:HG23	1:I:401:VAL:HA	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:284:LEU:HD21	1:I:304:VAL:HG23	1.96	0.48
1:J:137:THR:HG23	1:J:401:VAL:HA	1.96	0.48
1:J:196:GLU:C	1:J:368:LEU:HB2	2.39	0.48
1:J:231:LYS:HA	1:J:341:GLY:CA	2.43	0.48
1:K:207:GLU:CD	1:K:208:LEU:N	2.72	0.48
1:K:208:LEU:CG	1:K:210:LYS:H	2.26	0.48
1:K:418:TYR:C	1:K:420:GLU:N	2.70	0.48
1:L:258:LEU:CD2	1:M:251:ARG:HH11	2.23	0.48
1:L:284:LEU:HD21	1:L:304:VAL:HG23	1.96	0.48
1:L:342:LEU:O	1:L:357:GLU:HB3	2.14	0.48
1:L:442:ARG:O	1:L:445:ALA:HB3	2.13	0.48
1:M:61:GLY:CA	1:M:94:THR:HG21	2.32	0.48
1:M:134:LEU:HB2	1:M:138:ILE:HG13	1.95	0.48
1:M:231:LYS:HA	1:M:341:GLY:CA	2.43	0.48
1:M:292:ASP:HA	1:M:295:GLN:OE1	2.13	0.48
1:M:329:ILE:HG23	1:M:330:LYS:N	2.20	0.48
1:M:418:TYR:C	1:M:420:GLU:N	2.70	0.48
1:N:48:LEU:HD22	1:N:48:LEU:C	2.38	0.48
1:N:117:PRO:CG	1:N:511:ARG:HE	2.27	0.48
1:N:208:LEU:HA	1:N:367:MET:SD	2.54	0.48
1:N:286:CYS:SG	1:N:288:LYS:C	2.96	0.48
1:N:468:ASN:O	1:N:469:LYS:HB3	2.13	0.48
1:N:482:ASP:CG	1:N:483:MET:H	2.22	0.48
1:O:117:PRO:CG	1:O:511:ARG:HE	2.27	0.48
1:O:123:GLY:O	1:O:430:VAL:HG13	2.14	0.48
1:O:342:LEU:HD12	1:O:342:LEU:N	2.28	0.48
1:O:410:GLU:HB3	1:O:463:HIS:CD2	2.49	0.48
1:O:482:ASP:CG	1:O:483:MET:H	2.21	0.48
1:P:72:HIS:CG	1:P:73:PRO:HD2	2.49	0.48
1:P:86:GLU:O	1:P:89:VAL:HG12	2.13	0.48
1:P:117:PRO:CG	1:P:511:ARG:HE	2.27	0.48
1:P:168:GLU:C	1:P:170:LEU:N	2.67	0.48
1:B:48:LEU:C	1:B:48:LEU:HD22	2.38	0.48
1:B:57:VAL:HG13	1:B:58:THR:N	2.29	0.48
1:B:103:LEU:HD22	1:B:106:LYS:HB3	1.95	0.48
1:B:187:LYS:NZ	1:C:347:LYS:NZ	2.62	0.48
1:B:208:LEU:HA	1:B:367:MET:SD	2.54	0.48
1:C:48:LEU:HD22	1:C:48:LEU:C	2.38	0.48
1:C:123:GLY:O	1:C:430:VAL:HG13	2.14	0.48
1:C:144:ALA:CB	1:C:400:ILE:HG13	2.21	0.48
1:C:214:VAL:HA	1:C:316:LYS:CG	2.42	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:410:GLU:HB3	1:C:463:HIS:CD2	2.49	0.48
1:C:468:ASN:O	1:C:469:LYS:HB3	2.13	0.48
1:D:251:ARG:HH11	1:E:258:LEU:CD2	2.23	0.48
1:D:329:ILE:HG23	1:D:330:LYS:N	2.20	0.48
1:D:356:VAL:HG23	1:D:357:GLU:N	2.28	0.48
1:D:410:GLU:HB3	1:D:463:HIS:CD2	2.49	0.48
1:E:60:ASP:HB2	1:E:63:THR:HG22	1.95	0.48
1:E:191:ASP:O	1:E:194:LYS:HB3	2.14	0.48
1:E:207:GLU:CD	1:E:208:LEU:N	2.72	0.48
1:F:57:VAL:O	1:F:58:THR:HG23	2.13	0.48
1:F:442:ARG:HH22	1:F:456:LEU:CA	2.26	0.48
1:G:11:ASN:HD21	1:G:12:MET:HE2	1.78	0.48
1:G:137:THR:HG23	1:G:401:VAL:HA	1.96	0.48
1:G:231:LYS:HA	1:G:341:GLY:CA	2.43	0.48
1:G:356:VAL:HG23	1:G:357:GLU:N	2.28	0.48
1:G:442:ARG:HH22	1:G:456:LEU:CA	2.26	0.48
1:H:482:ASP:CG	1:H:483:MET:H	2.21	0.48
1:I:187:LYS:NZ	1:P:347:LYS:NZ	2.62	0.48
1:I:251:ARG:NH2	1:I:252:ILE:HD11	2.28	0.48
1:I:483:MET:CE	1:I:485:GLU:HA	2.43	0.48
1:I:512:ILE:HD13	1:P:45:ASP:HB3	1.95	0.48
1:J:11:ASN:HD21	1:J:12:MET:HE2	1.78	0.48
1:J:347:LYS:CG	1:K:187:LYS:HZ2	2.13	0.48
1:K:57:VAL:O	1:K:58:THR:HG23	2.13	0.48
1:K:147:LYS:H	1:K:147:LYS:HD2	1.79	0.48
1:K:347:LYS:NZ	1:L:187:LYS:NZ	2.62	0.48
1:L:123:GLY:O	1:L:430:VAL:HG13	2.14	0.48
1:L:191:ASP:O	1:L:194:LYS:HB3	2.14	0.48
1:L:286:CYS:SG	1:L:288:LYS:C	2.96	0.48
1:M:410:GLU:HB3	1:M:463:HIS:CD2	2.49	0.48
1:N:292:ASP:HA	1:N:295:GLN:OE1	2.13	0.48
1:N:356:VAL:HG23	1:N:357:GLU:N	2.28	0.48
1:O:48:LEU:C	1:O:48:LEU:HD22	2.38	0.48
1:O:404:GLY:O	1:O:407:THR:HG23	2.13	0.48
1:A:208:LEU:HA	1:A:367:MET:SD	2.54	0.48
1:A:208:LEU:CG	1:A:210:LYS:H	2.26	0.48
1:A:385:ASP:CA	1:A:388:VAL:HG12	2.44	0.48
1:B:123:GLY:O	1:B:430:VAL:HG13	2.14	0.48
1:B:192:LEU:HD22	1:B:363:LYS:HD3	1.95	0.48
1:B:216:LYS:O	1:B:217:GLU:HG2	2.13	0.48
1:B:261:PHE:CD1	1:B:261:PHE:N	2.81	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:410:GLU:HB3	1:B:463:HIS:CD2	2.49	0.48
1:C:356:VAL:HG23	1:C:357:GLU:N	2.28	0.48
1:D:123:GLY:O	1:D:430:VAL:HG13	2.14	0.48
1:D:520:LYS:HD2	1:E:68:MET:CA	2.40	0.48
1:F:147:LYS:H	1:F:147:LYS:HD2	1.79	0.48
1:F:208:LEU:CG	1:F:210:LYS:H	2.26	0.48
1:F:468:ASN:O	1:F:469:LYS:HB3	2.13	0.48
1:F:522:ARG:NH1	1:G:54:ASP:N	2.58	0.48
1:G:70:VAL:CG2	1:G:71:GLU:H	2.18	0.48
1:G:117:PRO:CG	1:G:511:ARG:HE	2.27	0.48
1:H:207:GLU:HA	1:H:369:ILE:CG2	2.44	0.48
1:I:44:MET:CE	1:I:58:THR:HG21	2.24	0.48
1:I:117:PRO:CG	1:I:511:ARG:HE	2.27	0.48
1:I:347:LYS:CG	1:J:187:LYS:HZ2	2.14	0.48
1:J:68:MET:H	1:K:520:LYS:CE	2.25	0.48
1:J:356:VAL:HG23	1:J:357:GLU:N	2.28	0.48
1:J:418:TYR:C	1:J:420:GLU:N	2.70	0.48
1:J:515:VAL:HG22	1:J:517:ALA:N	2.26	0.48
1:K:216:LYS:O	1:K:217:GLU:HG2	2.13	0.48
1:L:107:ALA:O	1:L:110:LEU:HB2	2.13	0.48
1:L:131:ALA:HB2	1:L:499:ILE:HG21	1.94	0.48
1:L:207:GLU:CD	1:L:208:LEU:N	2.72	0.48
1:M:61:GLY:HA3	1:M:94:THR:CG2	2.29	0.48
1:M:284:LEU:HD21	1:M:304:VAL:HG23	1.96	0.48
1:M:356:VAL:HG23	1:M:357:GLU:N	2.28	0.48
1:N:45:ASP:HB3	1:O:512:ILE:HD13	1.95	0.48
1:N:123:GLY:O	1:N:430:VAL:HG13	2.14	0.48
1:N:347:LYS:NZ	1:O:187:LYS:NZ	2.62	0.48
1:N:410:GLU:HB3	1:N:463:HIS:CD2	2.49	0.48
1:O:207:GLU:CD	1:O:208:LEU:N	2.72	0.48
1:O:261:PHE:CD1	1:O:261:PHE:N	2.81	0.48
1:P:57:VAL:HG13	1:P:58:THR:N	2.29	0.48
1:P:123:GLY:O	1:P:430:VAL:HG13	2.14	0.48
1:P:302:GLY:O	1:P:304:VAL:N	2.44	0.48
1:A:404:GLY:O	1:A:407:THR:HG23	2.13	0.47
1:B:114:ASN:ND2	1:B:116:HIS:H	2.12	0.47
1:B:250:ILE:HG21	1:C:253:THR:OG1	2.14	0.47
1:B:520:LYS:H	1:B:520:LYS:HD3	1.77	0.47
1:D:284:LEU:HD21	1:D:304:VAL:HG23	1.96	0.47
1:F:216:LYS:O	1:F:217:GLU:HG2	2.13	0.47
1:F:269:LEU:O	1:F:273:VAL:HG22	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:384:VAL:O	1:F:387:ALA:HB3	2.13	0.47
1:F:512:ILE:HD13	1:G:45:ASP:HB3	1.95	0.47
1:G:191:ASP:O	1:G:194:LYS:HB3	2.14	0.47
1:H:117:PRO:CG	1:H:511:ARG:HE	2.27	0.47
1:H:394:THR:HG22	1:H:399:ARG:HD3	1.96	0.47
1:I:123:GLY:O	1:I:430:VAL:HG13	2.14	0.47
1:I:191:ASP:O	1:I:194:LYS:HB3	2.14	0.47
1:I:208:LEU:HA	1:I:367:MET:SD	2.54	0.47
1:I:250:ILE:HG21	1:P:253:THR:OG1	2.14	0.47
1:I:394:THR:HG22	1:I:399:ARG:HD3	1.96	0.47
1:J:70:VAL:CG2	1:J:71:GLU:H	2.18	0.47
1:J:117:PRO:CG	1:J:511:ARG:HE	2.27	0.47
1:J:208:LEU:HA	1:J:367:MET:SD	2.54	0.47
1:J:284:LEU:HD21	1:J:304:VAL:HG23	1.96	0.47
1:J:292:ASP:HA	1:J:295:GLN:OE1	2.13	0.47
1:K:225:LYS:HZ2	1:L:188:VAL:HG21	1.79	0.47
1:K:269:LEU:O	1:K:273:VAL:HG22	2.14	0.47
1:K:384:VAL:O	1:K:387:ALA:HB3	2.13	0.47
1:K:442:ARG:HH22	1:K:456:LEU:CA	2.26	0.47
1:K:468:ASN:O	1:K:469:LYS:HB3	2.13	0.47
1:L:60:ASP:HB2	1:L:63:THR:HG22	1.95	0.47
1:L:72:HIS:CG	1:L:73:PRO:HD2	2.49	0.47
1:M:86:GLU:O	1:M:89:VAL:HG12	2.13	0.47
1:M:123:GLY:O	1:M:430:VAL:HG13	2.14	0.47
1:N:192:LEU:HD22	1:N:363:LYS:HD3	1.96	0.47
1:O:307:ARG:HG2	1:O:307:ARG:NH1	2.26	0.47
1:P:404:GLY:O	1:P:407:THR:HG23	2.13	0.47
1:P:515:VAL:HG22	1:P:517:ALA:N	2.26	0.47
1:A:123:GLY:O	1:A:430:VAL:HG13	2.14	0.47
1:A:137:THR:HG23	1:A:401:VAL:HA	1.96	0.47
1:A:290:ILE:HD13	1:A:290:ILE:N	2.30	0.47
1:A:302:GLY:O	1:A:304:VAL:N	2.45	0.47
1:A:510:LEU:O	1:A:511:ARG:HB3	2.15	0.47
1:B:11:ASN:HD21	1:B:12:MET:HE2	1.78	0.47
1:C:192:LEU:HD22	1:C:363:LYS:HD3	1.96	0.47
1:C:231:LYS:HA	1:C:341:GLY:CA	2.43	0.47
1:D:86:GLU:O	1:D:89:VAL:HG12	2.13	0.47
1:D:208:LEU:HA	1:D:367:MET:SD	2.54	0.47
1:D:418:TYR:C	1:D:420:GLU:N	2.70	0.47
1:E:72:HIS:CG	1:E:73:PRO:HD2	2.49	0.47
1:E:107:ALA:O	1:E:110:LEU:HB2	2.13	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:208:LEU:HA	1:G:367:MET:SD	2.54	0.47
1:G:284:LEU:HD21	1:G:304:VAL:HG23	1.96	0.47
1:G:342:LEU:O	1:G:357:GLU:HB3	2.14	0.47
1:G:394:THR:HG22	1:G:399:ARG:HD3	1.97	0.47
1:H:191:ASP:O	1:H:194:LYS:HB3	2.14	0.47
1:I:10:GLU:C	1:I:14:ARG:HH22	2.21	0.47
1:I:356:VAL:HG23	1:I:357:GLU:N	2.28	0.47
1:I:411:LEU:O	1:I:414:LYS:HB3	2.13	0.47
1:J:134:LEU:HB2	1:J:138:ILE:HG13	1.95	0.47
1:J:191:ASP:O	1:J:194:LYS:HB3	2.14	0.47
1:J:342:LEU:O	1:J:357:GLU:HB3	2.14	0.47
1:J:394:THR:HG22	1:J:399:ARG:HD3	1.97	0.47
1:N:60:ASP:HB2	1:N:63:THR:HG22	1.95	0.47
1:N:72:HIS:CG	1:N:73:PRO:HD2	2.49	0.47
1:N:134:LEU:HB2	1:N:138:ILE:HG13	1.95	0.47
1:O:192:LEU:HD22	1:O:363:LYS:HD3	1.95	0.47
1:O:216:LYS:O	1:O:217:GLU:HG2	2.13	0.47
1:O:284:LEU:HD13	1:O:284:LEU:N	2.29	0.47
1:P:208:LEU:CG	1:P:210:LYS:H	2.26	0.47
1:P:410:GLU:HB3	1:P:463:HIS:CD2	2.49	0.47
1:A:1:MET:SD	1:H:16:MET:HG2	2.54	0.47
1:A:187:LYS:NZ	1:B:347:LYS:NZ	2.62	0.47
1:A:251:ARG:NH2	1:A:252:ILE:HD11	2.29	0.47
1:A:410:GLU:HB3	1:A:463:HIS:CD2	2.49	0.47
1:B:251:ARG:HH11	1:C:258:LEU:CD2	2.23	0.47
1:B:284:LEU:HD13	1:B:284:LEU:N	2.29	0.47
1:B:290:ILE:HD13	1:B:290:ILE:N	2.29	0.47
1:C:60:ASP:HB2	1:C:63:THR:HG22	1.95	0.47
1:C:72:HIS:CG	1:C:73:PRO:HD2	2.49	0.47
1:C:134:LEU:HB2	1:C:138:ILE:HG13	1.95	0.47
1:C:290:ILE:HD13	1:C:290:ILE:N	2.30	0.47
1:C:418:TYR:C	1:C:420:GLU:H	2.20	0.47
1:D:57:VAL:O	1:D:58:THR:HG23	2.13	0.47
1:D:522:ARG:NH1	1:E:54:ASP:N	2.58	0.47
1:E:269:LEU:O	1:E:273:VAL:HG22	2.14	0.47
1:E:356:VAL:HG23	1:E:357:GLU:N	2.28	0.47
1:F:43:GLY:O	1:F:58:THR:HG22	2.15	0.47
1:F:72:HIS:CG	1:F:73:PRO:HD2	2.49	0.47
1:F:231:LYS:HA	1:F:341:GLY:CA	2.43	0.47
1:F:394:THR:HG22	1:F:399:ARG:HD3	1.96	0.47
1:F:410:GLU:HB3	1:F:463:HIS:CD2	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:134:LEU:HB2	1:G:138:ILE:HG13	1.95	0.47
1:G:233:ALA:HB3	1:G:283:VAL:N	2.30	0.47
1:G:251:ARG:NH2	1:G:252:ILE:HD11	2.29	0.47
1:G:292:ASP:HA	1:G:295:GLN:OE1	2.13	0.47
1:G:411:LEU:O	1:G:414:LYS:HB3	2.13	0.47
1:G:482:ASP:CG	1:G:483:MET:H	2.22	0.47
1:H:10:GLU:C	1:H:14:ARG:HH22	2.21	0.47
1:H:123:GLY:O	1:H:430:VAL:HG13	2.14	0.47
1:H:208:LEU:HA	1:H:367:MET:SD	2.54	0.47
1:H:251:ARG:NH2	1:H:252:ILE:HD11	2.29	0.47
1:H:356:VAL:HG23	1:H:357:GLU:N	2.28	0.47
1:H:411:LEU:O	1:H:414:LYS:HB3	2.13	0.47
1:J:233:ALA:HB3	1:J:283:VAL:N	2.30	0.47
1:K:43:GLY:O	1:K:58:THR:HG22	2.15	0.47
1:K:72:HIS:CG	1:K:73:PRO:HD2	2.49	0.47
1:K:231:LYS:HA	1:K:341:GLY:CA	2.43	0.47
1:K:394:THR:HG22	1:K:399:ARG:HD3	1.96	0.47
1:K:410:GLU:HB3	1:K:463:HIS:CD2	2.49	0.47
1:M:57:VAL:O	1:M:58:THR:HG23	2.13	0.47
1:M:117:PRO:CG	1:M:511:ARG:HE	2.27	0.47
1:M:208:LEU:HA	1:M:367:MET:SD	2.54	0.47
1:M:216:LYS:HZ2	1:M:352:SER:HB2	1.80	0.47
1:N:131:ALA:HB2	1:N:499:ILE:HG21	1.94	0.47
1:N:147:LYS:H	1:N:147:LYS:HD2	1.79	0.47
1:N:231:LYS:HA	1:N:341:GLY:CA	2.43	0.47
1:N:290:ILE:HD13	1:N:290:ILE:N	2.30	0.47
1:N:418:TYR:C	1:N:420:GLU:H	2.20	0.47
1:O:11:ASN:HD21	1:O:12:MET:HE2	1.78	0.47
1:O:57:VAL:HG13	1:O:58:THR:N	2.29	0.47
1:O:134:LEU:HB2	1:O:138:ILE:HG13	1.95	0.47
1:O:347:LYS:NZ	1:P:187:LYS:NZ	2.62	0.47
1:P:196:GLU:C	1:P:368:LEU:HB2	2.39	0.47
1:P:329:ILE:HG23	1:P:330:LYS:N	2.20	0.47
1:A:114:ASN:ND2	1:A:116:HIS:H	2.13	0.47
1:A:253:THR:OG1	1:H:250:ILE:HG21	2.14	0.47
1:A:394:THR:HG22	1:A:399:ARG:HD3	1.97	0.47
1:B:134:LEU:HB2	1:B:138:ILE:HG13	1.95	0.47
1:B:404:GLY:O	1:B:407:THR:HG23	2.14	0.47
1:C:42:LYS:HZ1	1:C:446:GLU:HA	1.79	0.47
1:C:131:ALA:HB2	1:C:499:ILE:HG21	1.94	0.47
1:C:147:LYS:H	1:C:147:LYS:HD2	1.79	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:72:HIS:CG	1:D:73:PRO:HD2	2.49	0.47
1:D:117:PRO:CG	1:D:511:ARG:HE	2.27	0.47
1:D:442:ARG:HH22	1:D:456:LEU:N	2.13	0.47
1:D:512:ILE:HD13	1:E:45:ASP:HB3	1.95	0.47
1:E:418:TYR:C	1:E:420:GLU:H	2.20	0.47
1:E:468:ASN:O	1:E:469:LYS:HB3	2.13	0.47
1:F:114:ASN:ND2	1:F:116:HIS:H	2.13	0.47
1:F:290:ILE:HD13	1:F:290:ILE:N	2.29	0.47
1:F:385:ASP:CA	1:F:388:VAL:HG12	2.45	0.47
1:G:207:GLU:CD	1:G:208:LEU:N	2.72	0.47
1:G:404:GLY:O	1:G:407:THR:HG23	2.13	0.47
1:H:44:MET:CE	1:H:58:THR:HG21	2.24	0.47
1:H:233:ALA:HB3	1:H:283:VAL:N	2.30	0.47
1:H:450:LEU:CD2	1:L:450:LEU:HD13	2.42	0.47
1:I:233:ALA:HB3	1:I:283:VAL:N	2.30	0.47
1:J:45:ASP:HB3	1:K:512:ILE:HD13	1.95	0.47
1:J:404:GLY:O	1:J:407:THR:HG23	2.13	0.47
1:J:411:LEU:O	1:J:414:LYS:HB3	2.13	0.47
1:J:482:ASP:CG	1:J:483:MET:H	2.22	0.47
1:K:114:ASN:ND2	1:K:116:HIS:H	2.13	0.47
1:K:134:LEU:HB2	1:K:138:ILE:HG13	1.95	0.47
1:K:290:ILE:HD13	1:K:290:ILE:N	2.29	0.47
1:K:385:ASP:CA	1:K:388:VAL:HG12	2.45	0.47
1:L:269:LEU:O	1:L:273:VAL:HG22	2.14	0.47
1:L:356:VAL:HG23	1:L:357:GLU:N	2.28	0.47
1:L:418:TYR:C	1:L:420:GLU:H	2.20	0.47
1:M:72:HIS:CG	1:M:73:PRO:HD2	2.49	0.47
1:M:218:ARG:O	1:M:224:PRO:HB2	2.15	0.47
1:M:468:ASN:O	1:M:469:LYS:HB3	2.13	0.47
1:O:86:GLU:O	1:O:89:VAL:HG12	2.13	0.47
1:O:114:ASN:ND2	1:O:116:HIS:H	2.13	0.47
1:O:290:ILE:HD13	1:O:290:ILE:N	2.29	0.47
1:P:10:GLU:C	1:P:14:ARG:HH22	2.21	0.47
1:P:290:ILE:HD13	1:P:290:ILE:N	2.30	0.47
1:P:385:ASP:CA	1:P:388:VAL:HG12	2.45	0.47
1:P:394:THR:HG22	1:P:399:ARG:HD3	1.97	0.47
1:A:196:GLU:C	1:A:368:LEU:HB2	2.39	0.47
1:B:86:GLU:O	1:B:89:VAL:HG12	2.13	0.47
1:B:103:LEU:C	1:B:105:ARG:H	2.21	0.47
1:B:269:LEU:O	1:B:273:VAL:HG22	2.14	0.47
1:B:302:GLY:O	1:B:304:VAL:N	2.44	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:196:GLU:C	1:C:368:LEU:HB2	2.39	0.47
1:C:416:ARG:HH11	1:C:416:ARG:HG3	1.80	0.47
1:C:442:ARG:HH22	1:C:456:LEU:N	2.13	0.47
1:D:114:ASN:ND2	1:D:116:HIS:H	2.13	0.47
1:D:218:ARG:O	1:D:224:PRO:HB2	2.15	0.47
1:D:302:GLY:O	1:D:304:VAL:N	2.44	0.47
1:E:442:ARG:HH22	1:E:456:LEU:N	2.13	0.47
1:E:510:LEU:O	1:E:511:ARG:HB3	2.15	0.47
1:F:134:LEU:HB2	1:F:138:ILE:HG13	1.95	0.47
1:F:196:GLU:C	1:F:368:LEU:HB2	2.39	0.47
1:H:43:GLY:O	1:H:58:THR:HG22	2.15	0.47
1:H:400:ILE:O	1:H:401:VAL:HB	2.15	0.47
1:I:43:GLY:O	1:I:58:THR:HG22	2.15	0.47
1:I:114:ASN:ND2	1:I:116:HIS:H	2.13	0.47
1:I:290:ILE:HD13	1:I:290:ILE:N	2.29	0.47
1:I:400:ILE:O	1:I:401:VAL:HB	2.15	0.47
1:J:43:GLY:O	1:J:58:THR:HG22	2.15	0.47
1:J:207:GLU:CD	1:J:208:LEU:N	2.72	0.47
1:J:258:LEU:CD2	1:K:251:ARG:HH11	2.23	0.47
1:J:410:GLU:HB3	1:J:463:HIS:CD2	2.49	0.47
1:K:11:ASN:HD21	1:K:12:MET:HE2	1.78	0.47
1:K:57:VAL:HG13	1:K:58:THR:N	2.29	0.47
1:K:103:LEU:C	1:K:105:ARG:H	2.21	0.47
1:K:196:GLU:C	1:K:368:LEU:HB2	2.39	0.47
1:L:192:LEU:HD22	1:L:363:LYS:HD3	1.96	0.47
1:L:442:ARG:HH22	1:L:456:LEU:N	2.13	0.47
1:L:468:ASN:O	1:L:469:LYS:HB3	2.13	0.47
1:L:510:LEU:O	1:L:511:ARG:HB3	2.15	0.47
1:M:114:ASN:ND2	1:M:116:HIS:H	2.13	0.47
1:M:302:GLY:O	1:M:304:VAL:N	2.44	0.47
1:M:442:ARG:HH22	1:M:456:LEU:N	2.13	0.47
1:N:57:VAL:HG13	1:N:58:THR:N	2.29	0.47
1:N:144:ALA:CB	1:N:400:ILE:HG13	2.21	0.47
1:N:196:GLU:C	1:N:368:LEU:HB2	2.39	0.47
1:N:416:ARG:HH11	1:N:416:ARG:HG3	1.80	0.47
1:O:191:ASP:O	1:O:194:LYS:HB3	2.14	0.47
1:P:284:LEU:HD21	1:P:304:VAL:HG23	1.96	0.47
1:A:10:GLU:C	1:A:14:ARG:HH22	2.21	0.47
1:A:65:LEU:CG	1:A:79:ILE:HG23	2.45	0.47
1:A:284:LEU:HD13	1:A:284:LEU:N	2.29	0.47
1:A:329:ILE:HG23	1:A:330:LYS:N	2.20	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:196:GLU:C	1:B:368:LEU:HB2	2.39	0.47
1:B:442:ARG:HH22	1:B:456:LEU:N	2.13	0.47
1:C:57:VAL:HG13	1:C:58:THR:N	2.29	0.47
1:C:57:VAL:O	1:C:58:THR:HG23	2.13	0.47
1:C:114:ASN:ND2	1:C:116:HIS:H	2.13	0.47
1:C:218:ARG:O	1:C:224:PRO:HB2	2.15	0.47
1:C:251:ARG:NH2	1:C:252:ILE:HD11	2.30	0.47
1:C:469:LYS:HZ1	1:C:486:ASN:HB3	1.80	0.47
1:D:10:GLU:C	1:D:14:ARG:HH22	2.21	0.47
1:D:192:LEU:HD22	1:D:363:LYS:HD3	1.95	0.47
1:D:290:ILE:N	1:D:290:ILE:HD13	2.29	0.47
1:D:468:ASN:O	1:D:469:LYS:HB3	2.13	0.47
1:E:43:GLY:O	1:E:58:THR:HG22	2.15	0.47
1:E:57:VAL:O	1:E:58:THR:HG23	2.13	0.47
1:E:188:VAL:HG21	1:F:225:LYS:HZ2	1.80	0.47
1:E:192:LEU:HD22	1:E:363:LYS:HD3	1.96	0.47
1:E:456:LEU:O	1:E:460:ARG:HG2	2.15	0.47
1:F:39:LEU:HD13	1:F:40:GLY:H	1.80	0.47
1:F:57:VAL:HG13	1:F:58:THR:N	2.29	0.47
1:F:117:PRO:CG	1:F:511:ARG:HE	2.27	0.47
1:G:43:GLY:O	1:G:58:THR:HG22	2.15	0.47
1:G:114:ASN:ND2	1:G:116:HIS:H	2.13	0.47
1:H:114:ASN:ND2	1:H:116:HIS:H	2.13	0.47
1:H:290:ILE:HD13	1:H:290:ILE:N	2.29	0.47
1:J:39:LEU:HD13	1:J:40:GLY:H	1.80	0.47
1:J:114:ASN:ND2	1:J:116:HIS:H	2.13	0.47
1:K:39:LEU:HD13	1:K:40:GLY:H	1.80	0.47
1:L:43:GLY:O	1:L:58:THR:HG22	2.15	0.47
1:L:45:ASP:HB3	1:M:512:ILE:HD13	1.95	0.47
1:L:57:VAL:O	1:L:58:THR:HG23	2.13	0.47
1:L:456:LEU:O	1:L:460:ARG:HG2	2.15	0.47
1:M:196:GLU:C	1:M:368:LEU:HB2	2.39	0.47
1:N:114:ASN:ND2	1:N:116:HIS:H	2.13	0.47
1:N:251:ARG:NH2	1:N:252:ILE:HD11	2.30	0.47
1:N:442:ARG:HH22	1:N:456:LEU:N	2.13	0.47
1:N:469:LYS:HZ1	1:N:486:ASN:HB3	1.80	0.47
1:O:269:LEU:O	1:O:273:VAL:HG22	2.14	0.47
1:O:302:GLY:O	1:O:304:VAL:N	2.44	0.47
1:O:456:LEU:O	1:O:460:ARG:HG2	2.15	0.47
1:P:65:LEU:CG	1:P:79:ILE:HG23	2.45	0.47
1:P:284:LEU:HD13	1:P:284:LEU:N	2.29	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:510:LEU:O	1:P:511:ARG:HB3	2.15	0.47
1:A:61:GLY:CA	1:A:94:THR:HG21	2.32	0.47
1:A:147:LYS:H	1:A:147:LYS:HD2	1.79	0.47
1:A:249:GLU:HG2	1:B:250:ILE:N	2.30	0.47
1:A:269:LEU:O	1:A:273:VAL:HG22	2.14	0.47
1:A:284:LEU:HD21	1:A:304:VAL:HG23	1.97	0.47
1:A:519:GLU:HG3	1:A:520:LYS:HE2	1.97	0.47
1:B:191:ASP:O	1:B:194:LYS:HB3	2.15	0.47
1:B:192:LEU:HD11	1:B:363:LYS:HZ3	1.80	0.47
1:B:307:ARG:HG2	1:B:307:ARG:NH1	2.26	0.47
1:B:406:SER:C	1:B:408:GLU:N	2.72	0.47
1:B:456:LEU:O	1:B:460:ARG:HG2	2.15	0.47
1:B:510:LEU:O	1:B:511:ARG:HB3	2.15	0.47
1:C:65:LEU:CG	1:C:79:ILE:HG23	2.45	0.47
1:C:249:GLU:HG2	1:D:250:ILE:N	2.30	0.47
1:C:284:LEU:HD13	1:C:284:LEU:N	2.29	0.47
1:D:39:LEU:HD13	1:D:40:GLY:H	1.80	0.47
1:D:196:GLU:C	1:D:368:LEU:HB2	2.39	0.47
1:D:216:LYS:NZ	1:D:352:SER:HB2	2.30	0.47
1:D:284:LEU:HD13	1:D:284:LEU:N	2.29	0.47
1:D:452:ALA:C	1:D:454:GLU:H	2.23	0.47
1:D:514:ASP:CG	1:E:46:LYS:HA	2.40	0.47
1:E:39:LEU:HD13	1:E:40:GLY:H	1.80	0.47
1:E:57:VAL:HG13	1:E:58:THR:N	2.29	0.47
1:E:114:ASN:ND2	1:E:116:HIS:H	2.13	0.47
1:E:147:LYS:H	1:E:147:LYS:HD2	1.79	0.47
1:E:251:ARG:NH2	1:E:252:ILE:HD11	2.29	0.47
1:E:284:LEU:HD13	1:E:284:LEU:N	2.29	0.47
1:E:450:LEU:HD13	1:I:450:LEU:CD2	2.42	0.47
1:E:452:ALA:C	1:E:454:GLU:H	2.23	0.47
1:F:11:ASN:HD21	1:F:12:MET:HE2	1.78	0.47
1:F:216:LYS:NZ	1:F:352:SER:HB2	2.30	0.47
1:F:233:ALA:HB3	1:F:283:VAL:N	2.30	0.47
1:F:251:ARG:HH11	1:G:258:LEU:CD2	2.23	0.47
1:G:39:LEU:HD13	1:G:40:GLY:H	1.80	0.47
1:G:60:ASP:HB2	1:G:63:THR:HG22	1.95	0.47
1:G:94:THR:HA	1:G:97:VAL:CG2	2.45	0.47
1:G:147:LYS:H	1:G:147:LYS:HD2	1.79	0.47
1:G:218:ARG:O	1:G:224:PRO:HB2	2.15	0.47
1:G:249:GLU:HG2	1:H:250:ILE:N	2.30	0.47
1:G:284:LEU:HD13	1:G:284:LEU:N	2.29	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:290:ILE:HD13	1:G:290:ILE:N	2.30	0.47
1:G:410:GLU:HB3	1:G:463:HIS:CD2	2.49	0.47
1:G:442:ARG:HH22	1:G:456:LEU:N	2.13	0.47
1:H:72:HIS:CG	1:H:73:PRO:HD2	2.49	0.47
1:H:156:THR:CG2	1:H:170:LEU:HA	2.39	0.47
1:H:404:GLY:O	1:H:407:THR:HG23	2.13	0.47
1:I:404:GLY:O	1:I:407:THR:HG23	2.13	0.47
1:J:94:THR:HA	1:J:97:VAL:CG2	2.45	0.47
1:J:147:LYS:H	1:J:147:LYS:HD2	1.79	0.47
1:J:218:ARG:O	1:J:224:PRO:HB2	2.15	0.47
1:J:251:ARG:NH2	1:J:252:ILE:HD11	2.30	0.47
1:J:284:LEU:HD13	1:J:284:LEU:N	2.29	0.47
1:J:290:ILE:HD13	1:J:290:ILE:N	2.30	0.47
1:J:442:ARG:HH22	1:J:456:LEU:N	2.13	0.47
1:K:117:PRO:CG	1:K:511:ARG:HE	2.27	0.47
1:K:214:VAL:HA	1:K:316:LYS:CG	2.42	0.47
1:K:216:LYS:NZ	1:K:352:SER:HB2	2.30	0.47
1:K:233:ALA:HB3	1:K:283:VAL:N	2.30	0.47
1:K:452:ALA:C	1:K:454:GLU:H	2.23	0.47
1:L:46:LYS:HA	1:M:514:ASP:CG	2.40	0.47
1:L:114:ASN:ND2	1:L:116:HIS:H	2.13	0.47
1:L:147:LYS:H	1:L:147:LYS:HD2	1.79	0.47
1:L:213:LEU:O	1:L:215:ASP:N	2.39	0.47
1:L:233:ALA:HB3	1:L:283:VAL:N	2.30	0.47
1:L:284:LEU:HD13	1:L:284:LEU:N	2.29	0.47
1:L:452:ALA:C	1:L:454:GLU:H	2.23	0.47
1:M:10:GLU:C	1:M:14:ARG:HH22	2.21	0.47
1:M:39:LEU:HD13	1:M:40:GLY:H	1.80	0.47
1:M:192:LEU:HD22	1:M:363:LYS:HD3	1.95	0.47
1:M:216:LYS:NZ	1:M:352:SER:HB2	2.30	0.47
1:M:284:LEU:HD13	1:M:284:LEU:N	2.29	0.47
1:M:290:ILE:HD13	1:M:290:ILE:N	2.29	0.47
1:N:57:VAL:O	1:N:58:THR:HG23	2.13	0.47
1:N:65:LEU:CG	1:N:79:ILE:HG23	2.45	0.47
1:N:218:ARG:O	1:N:224:PRO:HB2	2.15	0.47
1:N:258:LEU:CD2	1:O:251:ARG:HH11	2.23	0.47
1:N:329:ILE:HG23	1:N:330:LYS:N	2.20	0.47
1:O:196:GLU:C	1:O:368:LEU:HB2	2.39	0.47
1:O:406:SER:C	1:O:408:GLU:N	2.72	0.47
1:O:442:ARG:HH22	1:O:456:LEU:N	2.13	0.47
1:O:510:LEU:O	1:O:511:ARG:HB3	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:114:ASN:ND2	1:P:116:HIS:H	2.13	0.47
1:P:147:LYS:H	1:P:147:LYS:HD2	1.79	0.47
1:P:456:LEU:O	1:P:460:ARG:HG2	2.15	0.47
1:A:207:GLU:CD	1:A:208:LEU:N	2.72	0.47
1:A:416:ARG:HH11	1:A:416:ARG:HG3	1.79	0.47
1:C:10:GLU:C	1:C:14:ARG:HH22	2.21	0.47
1:C:216:LYS:NZ	1:C:352:SER:HB2	2.30	0.47
1:D:250:ILE:HG21	1:E:253:THR:OG1	2.14	0.47
1:D:251:ARG:HH11	1:E:258:LEU:HD13	1.80	0.47
1:E:203:ILE:CG2	1:E:372:THR:HG23	2.45	0.47
1:E:233:ALA:HB3	1:E:283:VAL:N	2.30	0.47
1:F:103:LEU:C	1:F:105:ARG:H	2.21	0.47
1:F:214:VAL:HA	1:F:316:LYS:CG	2.42	0.47
1:F:284:LEU:HD21	1:F:304:VAL:HG23	1.96	0.47
1:F:452:ALA:C	1:F:454:GLU:H	2.23	0.47
1:F:514:ASP:CG	1:G:46:LYS:HA	2.40	0.47
1:G:514:ASP:CG	1:H:46:LYS:HA	2.40	0.47
1:H:284:LEU:HD13	1:H:284:LEU:N	2.29	0.47
1:I:46:LYS:HA	1:I:514:ASP:CG	2.40	0.47
1:I:72:HIS:CG	1:I:73:PRO:HD2	2.49	0.47
1:J:46:LYS:HA	1:K:514:ASP:CG	2.40	0.47
1:J:60:ASP:HB2	1:J:63:THR:HG22	1.95	0.47
1:J:65:LEU:CG	1:J:79:ILE:HG23	2.45	0.47
1:J:72:HIS:CG	1:J:73:PRO:HD2	2.49	0.47
1:K:207:GLU:HA	1:K:369:ILE:CG2	2.44	0.47
1:K:442:ARG:O	1:K:445:ALA:HB3	2.13	0.47
1:L:39:LEU:HD13	1:L:40:GLY:H	1.80	0.47
1:L:57:VAL:HG13	1:L:58:THR:N	2.29	0.47
1:L:117:PRO:CG	1:L:511:ARG:HE	2.27	0.47
1:L:251:ARG:NH2	1:L:252:ILE:HD11	2.30	0.47
1:L:253:THR:OG1	1:M:250:ILE:HG21	2.14	0.47
1:M:29:ARG:HH21	1:M:105:ARG:CG	2.23	0.47
1:M:250:ILE:N	1:N:249:GLU:HG2	2.30	0.47
1:M:510:LEU:O	1:M:511:ARG:HB3	2.15	0.47
1:M:520:LYS:H	1:M:520:LYS:HD3	1.77	0.47
1:N:10:GLU:C	1:N:14:ARG:HH22	2.21	0.47
1:N:216:LYS:NZ	1:N:352:SER:HB2	2.30	0.47
1:N:284:LEU:HD13	1:N:284:LEU:N	2.29	0.47
1:O:103:LEU:C	1:O:105:ARG:H	2.21	0.47
1:O:207:GLU:HA	1:O:369:ILE:CG2	2.44	0.47
1:P:216:LYS:NZ	1:P:352:SER:HB2	2.30	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:233:ALA:HB3	1:P:283:VAL:N	2.30	0.47
1:P:251:ARG:NH2	1:P:252:ILE:HD11	2.30	0.47
1:A:216:LYS:NZ	1:A:352:SER:HB2	2.30	0.47
1:A:456:LEU:O	1:A:460:ARG:HG2	2.15	0.47
1:A:510:LEU:C	1:A:512:ILE:N	2.67	0.47
1:B:43:GLY:O	1:B:58:THR:HG22	2.14	0.47
1:B:207:GLU:HA	1:B:369:ILE:CG2	2.44	0.47
1:C:48:LEU:CD1	1:C:48:LEU:N	2.72	0.47
1:C:329:ILE:HG23	1:C:330:LYS:N	2.20	0.47
1:C:456:LEU:O	1:C:460:ARG:HG2	2.15	0.47
1:D:29:ARG:HH21	1:D:105:ARG:CG	2.23	0.47
1:D:510:LEU:O	1:D:511:ARG:HB3	2.15	0.47
1:E:94:THR:HA	1:E:97:VAL:CG2	2.45	0.47
1:E:522:ARG:HH12	1:F:54:ASP:H	1.61	0.47
1:F:207:GLU:HA	1:F:369:ILE:CG2	2.44	0.47
1:F:218:ARG:O	1:F:224:PRO:HB2	2.15	0.47
1:G:72:HIS:CG	1:G:73:PRO:HD2	2.49	0.47
1:G:172:GLU:HB3	1:G:207:GLU:CD	2.40	0.47
1:H:57:VAL:HG13	1:H:58:THR:N	2.29	0.47
1:H:103:LEU:C	1:H:105:ARG:H	2.21	0.47
1:H:216:LYS:NZ	1:H:352:SER:HB2	2.30	0.47
1:I:103:LEU:C	1:I:105:ARG:H	2.21	0.47
1:I:156:THR:CG2	1:I:170:LEU:HA	2.39	0.47
1:I:216:LYS:NZ	1:I:352:SER:HB2	2.30	0.47
1:I:247:ASP:O	1:I:249:GLU:N	2.48	0.47
1:I:284:LEU:HD13	1:I:284:LEU:N	2.29	0.47
1:J:172:GLU:HB3	1:J:207:GLU:CD	2.40	0.47
1:K:54:ASP:H	1:L:522:ARG:HH12	1.61	0.47
1:K:213:LEU:O	1:K:215:ASP:N	2.39	0.47
1:L:203:ILE:CG2	1:L:372:THR:HG23	2.45	0.47
1:M:452:ALA:C	1:M:454:GLU:H	2.23	0.47
1:N:48:LEU:CD1	1:N:48:LEU:N	2.72	0.47
1:N:418:TYR:C	1:N:420:GLU:N	2.70	0.47
1:O:394:THR:HG22	1:O:399:ARG:HD3	1.96	0.47
1:P:269:LEU:O	1:P:273:VAL:HG22	2.14	0.47
1:P:411:LEU:O	1:P:411:LEU:HD22	2.15	0.47
1:A:411:LEU:O	1:A:411:LEU:HD22	2.15	0.47
1:B:216:LYS:NZ	1:B:352:SER:HB2	2.30	0.47
1:B:218:ARG:O	1:B:224:PRO:HB2	2.15	0.47
1:B:316:LYS:HD3	1:B:366:THR:HG22	1.97	0.47
1:C:191:ASP:O	1:C:194:LYS:HB3	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:316:LYS:HD3	1:C:366:THR:HG22	1.97	0.47
1:C:452:ALA:C	1:C:454:GLU:H	2.23	0.47
1:E:117:PRO:CG	1:E:511:ARG:HE	2.27	0.47
1:E:213:LEU:O	1:E:215:ASP:N	2.39	0.47
1:E:394:THR:HG22	1:E:399:ARG:HD3	1.97	0.47
1:E:411:LEU:O	1:E:411:LEU:HD22	2.15	0.47
1:F:203:ILE:CG2	1:F:372:THR:HG23	2.45	0.47
1:F:442:ARG:O	1:F:445:ALA:HB3	2.13	0.47
1:G:42:LYS:HZ1	1:G:446:GLU:HA	1.80	0.47
1:G:65:LEU:CG	1:G:79:ILE:HG23	2.45	0.47
1:G:103:LEU:C	1:G:105:ARG:H	2.21	0.47
1:G:400:ILE:O	1:G:401:VAL:HB	2.15	0.47
1:H:433:PHE:HE2	1:H:437:LEU:HG	1.80	0.47
1:I:65:LEU:CG	1:I:79:ILE:HG23	2.45	0.47
1:I:250:ILE:N	1:J:249:GLU:HG2	2.30	0.47
1:I:269:LEU:O	1:I:273:VAL:HG22	2.14	0.47
1:I:433:PHE:HE2	1:I:437:LEU:HG	1.80	0.47
1:J:103:LEU:C	1:J:105:ARG:H	2.21	0.47
1:J:269:LEU:O	1:J:273:VAL:HG22	2.14	0.47
1:J:411:LEU:O	1:J:411:LEU:HD22	2.15	0.47
1:K:65:LEU:CG	1:K:79:ILE:HG23	2.45	0.47
1:K:191:ASP:O	1:K:194:LYS:HB3	2.14	0.47
1:K:203:ILE:CG2	1:K:372:THR:HG23	2.45	0.47
1:K:218:ARG:O	1:K:224:PRO:HB2	2.15	0.47
1:K:247:ASP:O	1:K:249:GLU:N	2.48	0.47
1:K:284:LEU:HD13	1:K:284:LEU:N	2.29	0.47
1:K:284:LEU:HD21	1:K:304:VAL:HG23	1.96	0.47
1:K:510:LEU:O	1:K:511:ARG:HB3	2.15	0.47
1:L:94:THR:HA	1:L:97:VAL:CG2	2.45	0.47
1:L:411:LEU:O	1:L:411:LEU:HD22	2.15	0.47
1:M:94:THR:HA	1:M:97:VAL:CG2	2.45	0.47
1:M:247:ASP:O	1:M:249:GLU:N	2.48	0.47
1:N:456:LEU:O	1:N:460:ARG:HG2	2.15	0.47
1:O:54:ASP:N	1:P:522:ARG:NH1	2.58	0.47
1:P:207:GLU:CD	1:P:208:LEU:N	2.72	0.47
1:P:316:LYS:HD3	1:P:366:THR:HG22	1.97	0.47
1:P:416:ARG:HH11	1:P:416:ARG:HG3	1.80	0.47
1:A:11:ASN:ND2	1:A:12:MET:HE2	2.31	0.46
1:A:233:ALA:HB3	1:A:283:VAL:N	2.30	0.46
1:A:316:LYS:HD3	1:A:366:THR:HG22	1.97	0.46
1:C:43:GLY:O	1:C:58:THR:HG22	2.14	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:269:LEU:O	1:C:273:VAL:HG22	2.14	0.46
1:D:94:THR:HA	1:D:97:VAL:CG2	2.45	0.46
1:D:269:LEU:O	1:D:273:VAL:HG22	2.14	0.46
1:D:416:ARG:HH11	1:D:416:ARG:HG3	1.80	0.46
1:D:433:PHE:HE2	1:D:437:LEU:HG	1.80	0.46
1:D:520:LYS:H	1:D:520:LYS:HD3	1.77	0.46
1:E:11:ASN:ND2	1:E:12:MET:HE2	2.31	0.46
1:E:155:MET:HE2	1:E:158:ILE:HD11	1.98	0.46
1:F:13:LYS:CG	1:G:49:VAL:HG11	2.45	0.46
1:F:65:LEU:CG	1:F:79:ILE:HG23	2.45	0.46
1:F:191:ASP:O	1:F:194:LYS:HB3	2.14	0.46
1:F:284:LEU:HD13	1:F:284:LEU:N	2.29	0.46
1:F:480:VAL:CG1	1:F:481:GLU:H	2.17	0.46
1:F:510:LEU:O	1:F:511:ARG:HB3	2.15	0.46
1:G:269:LEU:O	1:G:273:VAL:HG22	2.14	0.46
1:G:411:LEU:O	1:G:411:LEU:HD22	2.15	0.46
1:H:65:LEU:CG	1:H:79:ILE:HG23	2.45	0.46
1:H:269:LEU:O	1:H:273:VAL:HG22	2.14	0.46
1:H:316:LYS:HD3	1:H:366:THR:HG22	1.98	0.46
1:H:411:LEU:O	1:H:411:LEU:HD22	2.15	0.46
1:H:456:LEU:O	1:H:460:ARG:HG2	2.15	0.46
1:I:39:LEU:HD13	1:I:40:GLY:H	1.80	0.46
1:I:57:VAL:HG13	1:I:58:THR:N	2.29	0.46
1:I:316:LYS:HD3	1:I:366:THR:HG22	1.98	0.46
1:I:411:LEU:O	1:I:411:LEU:HD22	2.15	0.46
1:J:49:VAL:HG11	1:K:13:LYS:CG	2.45	0.46
1:J:400:ILE:O	1:J:401:VAL:HB	2.15	0.46
1:K:442:ARG:HH22	1:K:456:LEU:N	2.13	0.46
1:L:11:ASN:ND2	1:L:12:MET:HE2	2.31	0.46
1:L:394:THR:HG22	1:L:399:ARG:HD3	1.97	0.46
1:L:425:ARG:CG	1:L:426:GLU:N	2.73	0.46
1:M:46:LYS:HA	1:N:514:ASP:CG	2.40	0.46
1:M:433:PHE:HE2	1:M:437:LEU:HG	1.80	0.46
1:M:456:LEU:O	1:M:460:ARG:HG2	2.15	0.46
1:N:172:GLU:HB3	1:N:207:GLU:CD	2.40	0.46
1:N:269:LEU:O	1:N:273:VAL:HG22	2.14	0.46
1:N:284:LEU:HD21	1:N:304:VAL:HG23	1.96	0.46
1:N:316:LYS:HD3	1:N:366:THR:HG22	1.97	0.46
1:O:65:LEU:CG	1:O:79:ILE:HG23	2.45	0.46
1:O:216:LYS:NZ	1:O:352:SER:HB2	2.30	0.46
1:O:332:LEU:HD13	1:O:332:LEU:HA	1.76	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:11:ASN:ND2	1:P:12:MET:HE2	2.31	0.46
1:P:400:ILE:O	1:P:401:VAL:HB	2.15	0.46
1:P:510:LEU:C	1:P:512:ILE:N	2.67	0.46
1:A:198:LYS:HD3	1:A:377:ILE:CG2	2.44	0.46
1:A:198:LYS:N	1:A:369:ILE:O	2.49	0.46
1:A:207:GLU:HA	1:A:369:ILE:CG2	2.44	0.46
1:A:442:ARG:HH22	1:A:456:LEU:N	2.13	0.46
1:B:65:LEU:CG	1:B:79:ILE:HG23	2.45	0.46
1:B:236:ASN:HB2	1:B:324:ASN:HD21	1.81	0.46
1:B:284:LEU:HD21	1:B:304:VAL:HG23	1.96	0.46
1:B:522:ARG:NH1	1:C:54:ASP:N	2.58	0.46
1:C:156:THR:CG2	1:C:170:LEU:HA	2.39	0.46
1:C:172:GLU:HB3	1:C:207:GLU:CD	2.40	0.46
1:C:394:THR:HG22	1:C:399:ARG:HD3	1.97	0.46
1:D:147:LYS:HD2	1:D:147:LYS:N	2.31	0.46
1:D:247:ASP:O	1:D:249:GLU:N	2.49	0.46
1:D:404:GLY:HA3	1:D:487:GLY:HA3	1.98	0.46
1:D:456:LEU:O	1:D:460:ARG:HG2	2.15	0.46
1:E:172:GLU:HB3	1:E:207:GLU:CD	2.40	0.46
1:E:198:LYS:N	1:E:369:ILE:O	2.49	0.46
1:F:147:LYS:HD2	1:F:147:LYS:N	2.31	0.46
1:F:247:ASP:O	1:F:249:GLU:N	2.49	0.46
1:F:442:ARG:HH22	1:F:456:LEU:N	2.13	0.46
1:G:316:LYS:HD3	1:G:366:THR:HG22	1.97	0.46
1:G:404:GLY:HA3	1:G:487:GLY:HA3	1.98	0.46
1:H:39:LEU:HD13	1:H:40:GLY:H	1.80	0.46
1:H:172:GLU:HB3	1:H:207:GLU:CD	2.40	0.46
1:H:510:LEU:O	1:H:511:ARG:HB3	2.15	0.46
1:I:385:ASP:CA	1:I:388:VAL:HG12	2.45	0.46
1:I:456:LEU:O	1:I:460:ARG:HG2	2.15	0.46
1:J:253:THR:OG1	1:K:250:ILE:HG21	2.14	0.46
1:J:316:LYS:HD3	1:J:366:THR:HG22	1.97	0.46
1:J:404:GLY:HA3	1:J:487:GLY:HA3	1.98	0.46
1:J:416:ARG:HG3	1:J:416:ARG:HH11	1.80	0.46
1:K:147:LYS:HD2	1:K:147:LYS:N	2.31	0.46
1:L:155:MET:HE2	1:L:158:ILE:HD11	1.98	0.46
1:L:198:LYS:N	1:L:369:ILE:O	2.49	0.46
1:M:147:LYS:HD2	1:M:147:LYS:N	2.31	0.46
1:M:404:GLY:HA3	1:M:487:GLY:HA3	1.98	0.46
1:N:39:LEU:HD13	1:N:40:GLY:H	1.80	0.46
1:N:191:ASP:O	1:N:194:LYS:HB3	2.14	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:452:ALA:C	1:N:454:GLU:H	2.23	0.46
1:O:10:GLU:C	1:O:14:ARG:HH22	2.21	0.46
1:O:218:ARG:O	1:O:224:PRO:HB2	2.15	0.46
1:O:236:ASN:HB2	1:O:324:ASN:HD21	1.81	0.46
1:O:247:ASP:O	1:O:249:GLU:N	2.48	0.46
1:O:250:ILE:N	1:P:249:GLU:HG2	2.30	0.46
1:O:284:LEU:HD21	1:O:304:VAL:HG23	1.96	0.46
1:O:433:PHE:HE2	1:O:437:LEU:HG	1.80	0.46
1:P:43:GLY:O	1:P:58:THR:HG22	2.15	0.46
1:P:191:ASP:O	1:P:194:LYS:HB3	2.14	0.46
1:P:207:GLU:HA	1:P:369:ILE:CG2	2.44	0.46
1:P:442:ARG:HH22	1:P:456:LEU:N	2.13	0.46
1:A:43:GLY:O	1:A:58:THR:HG22	2.15	0.46
1:A:46:LYS:HA	1:H:514:ASP:CG	2.40	0.46
1:A:94:THR:HA	1:A:97:VAL:CG2	2.45	0.46
1:A:203:ILE:CG2	1:A:372:THR:HG23	2.45	0.46
1:A:236:ASN:HB2	1:A:324:ASN:HD21	1.81	0.46
1:B:188:VAL:HG21	1:C:225:LYS:HZ2	1.79	0.46
1:B:233:ALA:HB3	1:B:283:VAL:N	2.30	0.46
1:C:284:LEU:HD21	1:C:304:VAL:HG23	1.96	0.46
1:C:514:ASP:CG	1:D:46:LYS:HA	2.40	0.46
1:D:43:GLY:O	1:D:58:THR:HG22	2.15	0.46
1:D:172:GLU:HB3	1:D:207:GLU:CD	2.40	0.46
1:E:187:LYS:HZ2	1:F:347:LYS:CG	2.13	0.46
1:E:269:LEU:HD13	1:E:269:LEU:HA	1.80	0.46
1:E:425:ARG:CG	1:E:426:GLU:N	2.73	0.46
1:F:213:LEU:O	1:F:215:ASP:N	2.39	0.46
1:F:234:LEU:HD22	1:F:322:GLY:CA	2.46	0.46
1:H:94:THR:HA	1:H:97:VAL:CG2	2.45	0.46
1:H:247:ASP:O	1:H:249:GLU:N	2.49	0.46
1:H:385:ASP:CA	1:H:388:VAL:HG12	2.45	0.46
1:I:416:ARG:HH11	1:I:416:ARG:HG3	1.80	0.46
1:I:510:LEU:O	1:I:511:ARG:HB3	2.15	0.46
1:K:234:LEU:HD22	1:K:322:GLY:CA	2.46	0.46
1:K:416:ARG:HH11	1:K:416:ARG:HG3	1.80	0.46
1:L:65:LEU:CG	1:L:79:ILE:HG23	2.45	0.46
1:L:385:ASP:CA	1:L:388:VAL:HG12	2.45	0.46
1:M:43:GLY:O	1:M:58:THR:HG22	2.15	0.46
1:M:49:VAL:HG11	1:N:13:LYS:CG	2.45	0.46
1:M:65:LEU:CG	1:M:79:ILE:HG23	2.45	0.46
1:M:191:ASP:O	1:M:194:LYS:HB3	2.14	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:269:LEU:O	1:M:273:VAL:HG22	2.14	0.46
1:M:394:THR:HG22	1:M:399:ARG:HD3	1.96	0.46
1:M:416:ARG:HG3	1:M:416:ARG:HH11	1.80	0.46
1:N:54:ASP:N	1:O:522:ARG:NH1	2.58	0.46
1:N:144:ALA:HB2	1:N:400:ILE:CG1	2.22	0.46
1:N:394:THR:HG22	1:N:399:ARG:HD3	1.97	0.46
1:O:43:GLY:O	1:O:58:THR:HG22	2.15	0.46
1:P:39:LEU:HD13	1:P:40:GLY:H	1.80	0.46
1:P:61:GLY:CA	1:P:94:THR:HG21	2.32	0.46
1:P:198:LYS:N	1:P:369:ILE:O	2.49	0.46
1:A:39:LEU:HD13	1:A:40:GLY:H	1.80	0.46
1:A:191:ASP:O	1:A:194:LYS:HB3	2.14	0.46
1:A:218:ARG:O	1:A:224:PRO:HB2	2.15	0.46
1:B:10:GLU:C	1:B:14:ARG:HH22	2.21	0.46
1:B:411:LEU:O	1:B:411:LEU:HD22	2.15	0.46
1:C:13:LYS:CG	1:D:49:VAL:HG11	2.45	0.46
1:C:39:LEU:HD13	1:C:40:GLY:H	1.80	0.46
1:C:144:ALA:HB2	1:C:400:ILE:CG1	2.22	0.46
1:C:404:GLY:HA3	1:C:487:GLY:HA3	1.98	0.46
1:C:418:TYR:C	1:C:420:GLU:N	2.70	0.46
1:D:13:LYS:CG	1:E:49:VAL:HG11	2.45	0.46
1:D:394:THR:HG22	1:D:399:ARG:HD3	1.96	0.46
1:E:385:ASP:CA	1:E:388:VAL:HG12	2.45	0.46
1:E:514:ASP:CG	1:F:46:LYS:HA	2.40	0.46
1:F:250:ILE:HG21	1:G:253:THR:OG1	2.14	0.46
1:F:404:GLY:HA3	1:F:487:GLY:HA3	1.98	0.46
1:G:147:LYS:HD2	1:G:147:LYS:N	2.31	0.46
1:G:416:ARG:HH11	1:G:416:ARG:HG3	1.80	0.46
1:G:456:LEU:O	1:G:460:ARG:HG2	2.15	0.46
1:H:311:LYS:N	1:H:311:LYS:HD2	2.31	0.46
1:H:404:GLY:HA3	1:H:487:GLY:HA3	1.98	0.46
1:I:94:THR:HA	1:I:97:VAL:CG2	2.45	0.46
1:I:172:GLU:HB3	1:I:207:GLU:CD	2.40	0.46
1:I:404:GLY:HA3	1:I:487:GLY:HA3	1.98	0.46
1:I:514:ASP:CG	1:P:46:LYS:HA	2.40	0.46
1:J:147:LYS:HD2	1:J:147:LYS:N	2.31	0.46
1:J:452:ALA:C	1:J:454:GLU:H	2.23	0.46
1:J:456:LEU:O	1:J:460:ARG:HG2	2.15	0.46
1:K:172:GLU:HB3	1:K:207:GLU:CD	2.40	0.46
1:K:400:ILE:O	1:K:401:VAL:HB	2.15	0.46
1:L:218:ARG:O	1:L:224:PRO:HB2	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:290:ILE:HD13	1:L:290:ILE:N	2.30	0.46
1:L:416:ARG:HH11	1:L:416:ARG:HG3	1.80	0.46
1:M:155:MET:HE2	1:M:158:ILE:HD11	1.98	0.46
1:M:233:ALA:HB3	1:M:283:VAL:N	2.30	0.46
1:N:43:GLY:O	1:N:58:THR:HG22	2.15	0.46
1:N:425:ARG:CG	1:N:426:GLU:N	2.73	0.46
1:O:172:GLU:HB3	1:O:207:GLU:CD	2.40	0.46
1:O:213:LEU:O	1:O:215:ASP:N	2.39	0.46
1:O:316:LYS:HD3	1:O:366:THR:HG22	1.98	0.46
1:O:400:ILE:O	1:O:401:VAL:HB	2.15	0.46
1:A:49:VAL:HG11	1:H:13:LYS:CG	2.45	0.46
1:A:400:ILE:O	1:A:401:VAL:HB	2.15	0.46
1:B:94:THR:HA	1:B:97:VAL:CG2	2.45	0.46
1:B:247:ASP:O	1:B:249:GLU:N	2.49	0.46
1:B:311:LYS:N	1:B:311:LYS:HD2	2.31	0.46
1:C:11:ASN:ND2	1:C:12:MET:HE2	2.31	0.46
1:C:168:GLU:C	1:C:170:LEU:N	2.67	0.46
1:C:198:LYS:N	1:C:369:ILE:O	2.49	0.46
1:D:65:LEU:CG	1:D:79:ILE:HG23	2.45	0.46
1:D:155:MET:HE2	1:D:158:ILE:HD11	1.98	0.46
1:D:169:LYS:HZ2	1:D:173:ILE:HD11	1.81	0.46
1:D:191:ASP:O	1:D:194:LYS:HB3	2.14	0.46
1:D:203:ILE:CG2	1:D:372:THR:HG23	2.45	0.46
1:D:233:ALA:HB3	1:D:283:VAL:N	2.30	0.46
1:D:411:LEU:O	1:D:411:LEU:HD22	2.15	0.46
1:E:65:LEU:CG	1:E:79:ILE:HG23	2.45	0.46
1:E:416:ARG:HG3	1:E:416:ARG:HH11	1.80	0.46
1:F:172:GLU:HB3	1:F:207:GLU:CD	2.40	0.46
1:F:400:ILE:O	1:F:401:VAL:HB	2.15	0.46
1:F:416:ARG:HH11	1:F:416:ARG:HG3	1.80	0.46
1:F:433:PHE:HE2	1:F:437:LEU:HG	1.80	0.46
1:G:155:MET:HE2	1:G:158:ILE:HD11	1.98	0.46
1:G:216:LYS:NZ	1:G:352:SER:HB2	2.30	0.46
1:G:234:LEU:HD22	1:G:322:GLY:CA	2.46	0.46
1:H:406:SER:C	1:H:408:GLU:N	2.72	0.46
1:H:416:ARG:HH11	1:H:416:ARG:HG3	1.80	0.46
1:H:442:ARG:HH22	1:H:456:LEU:N	2.13	0.46
1:I:13:LYS:CG	1:P:49:VAL:HG11	2.45	0.46
1:I:406:SER:C	1:I:408:GLU:N	2.72	0.46
1:J:11:ASN:ND2	1:J:12:MET:HE2	2.31	0.46
1:J:42:LYS:HZ1	1:J:446:GLU:HA	1.80	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:155:MET:HE2	1:J:158:ILE:HD11	1.98	0.46
1:J:203:ILE:CG2	1:J:372:THR:HG23	2.45	0.46
1:J:234:LEU:HD22	1:J:322:GLY:CA	2.46	0.46
1:K:404:GLY:HA3	1:K:487:GLY:HA3	1.98	0.46
1:K:433:PHE:HE2	1:K:437:LEU:HG	1.80	0.46
1:L:49:VAL:HG11	1:M:13:LYS:CG	2.45	0.46
1:L:172:GLU:HB3	1:L:207:GLU:CD	2.40	0.46
1:L:258:LEU:HD13	1:M:251:ARG:HH11	1.80	0.46
1:M:172:GLU:HB3	1:M:207:GLU:CD	2.40	0.46
1:M:332:LEU:HD13	1:M:332:LEU:HA	1.76	0.46
1:M:411:LEU:O	1:M:411:LEU:HD22	2.15	0.46
1:N:49:VAL:HG11	1:O:13:LYS:CG	2.45	0.46
1:N:156:THR:CG2	1:N:170:LEU:HA	2.39	0.46
1:N:168:GLU:C	1:N:170:LEU:N	2.67	0.46
1:N:198:LYS:N	1:N:369:ILE:O	2.49	0.46
1:N:404:GLY:HA3	1:N:487:GLY:HA3	1.98	0.46
1:O:46:LYS:HA	1:P:514:ASP:CG	2.40	0.46
1:O:49:VAL:HG11	1:P:13:LYS:CG	2.45	0.46
1:O:94:THR:HA	1:O:97:VAL:CG2	2.45	0.46
1:O:233:ALA:HB3	1:O:283:VAL:N	2.30	0.46
1:O:311:LYS:N	1:O:311:LYS:HD2	2.31	0.46
1:P:203:ILE:CG2	1:P:372:THR:HG23	2.45	0.46
1:P:218:ARG:O	1:P:224:PRO:HB2	2.15	0.46
1:P:236:ASN:HB2	1:P:324:ASN:HD21	1.81	0.46
1:P:379:GLU:HA	1:P:382:ARG:HD2	1.97	0.46
1:A:103:LEU:C	1:A:105:ARG:H	2.21	0.46
1:A:379:GLU:HA	1:A:382:ARG:HD2	1.97	0.46
1:B:172:GLU:HB3	1:B:207:GLU:CD	2.40	0.46
1:B:187:LYS:NZ	1:C:347:LYS:HZ3	2.13	0.46
1:B:216:LYS:HZ2	1:B:352:SER:HB2	1.81	0.46
1:B:332:LEU:HD13	1:B:332:LEU:HA	1.76	0.46
1:B:433:PHE:HE2	1:B:437:LEU:HG	1.81	0.46
1:B:510:LEU:C	1:B:512:ILE:N	2.67	0.46
1:B:514:ASP:CG	1:C:46:LYS:HA	2.40	0.46
1:C:147:LYS:HD2	1:C:147:LYS:N	2.31	0.46
1:C:425:ARG:CG	1:C:426:GLU:N	2.73	0.46
1:E:218:ARG:O	1:E:224:PRO:HB2	2.15	0.46
1:E:249:GLU:HG2	1:F:250:ILE:N	2.30	0.46
1:E:290:ILE:HD13	1:E:290:ILE:N	2.30	0.46
1:G:11:ASN:ND2	1:G:12:MET:HE2	2.31	0.46
1:G:146:ASP:CG	1:G:150:LEU:HG	2.41	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:203:ILE:CG2	1:G:372:THR:HG23	2.45	0.46
1:H:155:MET:HE2	1:H:158:ILE:HD11	1.98	0.46
1:H:412:SER:HB2	1:H:438:GLU:CD	2.41	0.46
1:I:155:MET:HE2	1:I:158:ILE:HD11	1.98	0.46
1:I:311:LYS:HD2	1:I:311:LYS:N	2.31	0.46
1:I:442:ARG:HH22	1:I:456:LEU:N	2.13	0.46
1:J:146:ASP:CG	1:J:150:LEU:HG	2.41	0.46
1:J:216:LYS:NZ	1:J:352:SER:HB2	2.30	0.46
1:K:46:LYS:HA	1:L:514:ASP:CG	2.40	0.46
1:K:49:VAL:HG11	1:L:13:LYS:CG	2.45	0.46
1:K:480:VAL:CG1	1:K:481:GLU:H	2.17	0.46
1:L:404:GLY:HA3	1:L:487:GLY:HA3	1.98	0.46
1:M:203:ILE:CG2	1:M:372:THR:HG23	2.45	0.46
1:N:11:ASN:ND2	1:N:12:MET:HE2	2.31	0.46
1:N:38:THR:HB	1:N:44:MET:O	2.16	0.46
1:N:147:LYS:HD2	1:N:147:LYS:N	2.31	0.46
1:N:302:GLY:O	1:N:304:VAL:N	2.44	0.46
1:O:192:LEU:HD11	1:O:363:LYS:HZ3	1.81	0.46
1:O:198:LYS:N	1:O:369:ILE:O	2.49	0.46
1:O:411:LEU:O	1:O:411:LEU:HD22	2.15	0.46
1:A:155:MET:HE2	1:A:158:ILE:HD11	1.97	0.46
1:A:514:ASP:CG	1:B:46:LYS:HA	2.40	0.46
1:B:110:LEU:CD2	1:B:111:LEU:H	2.29	0.46
1:B:198:LYS:N	1:B:369:ILE:O	2.49	0.46
1:B:213:LEU:O	1:B:215:ASP:N	2.39	0.46
1:C:302:GLY:O	1:C:304:VAL:N	2.44	0.46
1:D:20:ALA:HB1	1:D:516:ILE:HB	1.98	0.46
1:E:13:LYS:CG	1:F:49:VAL:HG11	2.45	0.46
1:E:20:ALA:HB1	1:E:516:ILE:HB	1.98	0.46
1:E:61:GLY:CA	1:E:94:THR:HG21	2.32	0.46
1:E:404:GLY:HA3	1:E:487:GLY:HA3	1.98	0.46
1:F:311:LYS:HD2	1:F:311:LYS:N	2.31	0.46
1:G:452:ALA:C	1:G:454:GLU:H	2.23	0.46
1:H:38:THR:HB	1:H:44:MET:O	2.16	0.46
1:H:234:LEU:HD22	1:H:322:GLY:CA	2.46	0.46
1:H:401:VAL:HG13	1:H:492:LEU:CD2	2.43	0.46
1:I:38:THR:HB	1:I:44:MET:O	2.16	0.46
1:I:401:VAL:HG13	1:I:492:LEU:CD2	2.43	0.46
1:I:412:SER:HB2	1:I:438:GLU:CD	2.41	0.46
1:K:94:THR:HA	1:K:97:VAL:CG2	2.45	0.46
1:K:250:ILE:N	1:L:249:GLU:HG2	2.30	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:311:LYS:N	1:K:311:LYS:HD2	2.31	0.46
1:K:347:LYS:CG	1:L:187:LYS:HZ2	2.13	0.46
1:K:456:LEU:O	1:K:460:ARG:HG2	2.15	0.46
1:L:20:ALA:HB1	1:L:516:ILE:HB	1.98	0.46
1:L:61:GLY:CA	1:L:94:THR:HG21	2.32	0.46
1:L:269:LEU:HD13	1:L:269:LEU:HA	1.80	0.46
1:M:20:ALA:HB1	1:M:516:ILE:HB	1.98	0.46
1:M:316:LYS:HD3	1:M:366:THR:HG22	1.98	0.46
1:N:208:LEU:CG	1:N:210:LYS:H	2.26	0.46
1:O:110:LEU:CD2	1:O:111:LEU:H	2.29	0.46
1:O:144:ALA:HB2	1:O:400:ILE:CG1	2.22	0.46
1:P:94:THR:HA	1:P:97:VAL:CG2	2.45	0.46
1:P:311:LYS:N	1:P:311:LYS:HD2	2.31	0.46
1:A:172:GLU:HB3	1:A:207:GLU:CD	2.40	0.46
1:A:251:ARG:HH11	1:B:258:LEU:CD2	2.23	0.46
1:B:13:LYS:CG	1:C:49:VAL:HG11	2.45	0.46
1:B:369:ILE:HG13	1:B:370:ARG:N	2.31	0.46
1:C:38:THR:HB	1:C:44:MET:O	2.16	0.46
1:C:233:ALA:HB3	1:C:283:VAL:N	2.30	0.46
1:C:400:ILE:O	1:C:401:VAL:HB	2.15	0.46
1:D:316:LYS:HD3	1:D:366:THR:HG22	1.98	0.46
1:F:11:ASN:ND2	1:F:12:MET:HE2	2.31	0.46
1:F:20:ALA:HB1	1:F:516:ILE:HB	1.98	0.46
1:F:94:THR:HA	1:F:97:VAL:CG2	2.45	0.46
1:F:456:LEU:O	1:F:460:ARG:HG2	2.15	0.46
1:G:401:VAL:HG13	1:G:492:LEU:CD2	2.43	0.46
1:H:110:LEU:CD2	1:H:111:LEU:H	2.29	0.46
1:H:198:LYS:N	1:H:369:ILE:O	2.49	0.46
1:H:203:ILE:CG2	1:H:372:THR:HG23	2.45	0.46
1:H:236:ASN:HB2	1:H:324:ASN:HD21	1.81	0.46
1:I:203:ILE:CG2	1:I:372:THR:HG23	2.45	0.46
1:I:214:VAL:HA	1:I:316:LYS:CG	2.42	0.46
1:I:218:ARG:O	1:I:224:PRO:HB2	2.15	0.46
1:I:234:LEU:HD22	1:I:322:GLY:CA	2.46	0.46
1:J:207:GLU:HA	1:J:369:ILE:CG2	2.44	0.46
1:J:401:VAL:HG13	1:J:492:LEU:CD2	2.43	0.46
1:K:20:ALA:HB1	1:K:516:ILE:HB	1.98	0.46
1:L:147:LYS:HD2	1:L:147:LYS:N	2.31	0.46
1:L:234:LEU:HD22	1:L:322:GLY:CA	2.46	0.46
1:M:11:ASN:ND2	1:M:12:MET:HE2	2.31	0.46
1:N:46:LYS:HA	1:O:514:ASP:CG	2.40	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:233:ALA:HB3	1:N:283:VAL:N	2.30	0.46
1:O:11:ASN:ND2	1:O:12:MET:HE2	2.31	0.46
1:O:39:LEU:HD13	1:O:40:GLY:H	1.80	0.46
1:O:216:LYS:HZ2	1:O:352:SER:HB2	1.81	0.46
1:O:404:GLY:HA3	1:O:487:GLY:HA3	1.98	0.46
1:O:510:LEU:C	1:O:512:ILE:N	2.67	0.46
1:P:404:GLY:HA3	1:P:487:GLY:HA3	1.98	0.46
1:A:13:LYS:CG	1:B:49:VAL:HG11	2.46	0.46
1:A:112:ASP:O	1:A:113:GLN:CB	2.64	0.46
1:A:128:ALA:CB	1:A:500:GLN:NE2	2.79	0.46
1:A:512:ILE:HD11	1:B:47:MET:CA	2.46	0.46
1:B:11:ASN:ND2	1:B:12:MET:HE2	2.31	0.46
1:B:39:LEU:HD13	1:B:40:GLY:H	1.80	0.46
1:B:400:ILE:O	1:B:401:VAL:HB	2.15	0.46
1:B:412:SER:HB2	1:B:438:GLU:CD	2.41	0.46
1:D:11:ASN:ND2	1:D:12:MET:HE2	2.31	0.46
1:D:311:LYS:HD2	1:D:311:LYS:N	2.31	0.46
1:D:342:LEU:CD1	1:D:342:LEU:H	2.29	0.46
1:E:216:LYS:NZ	1:E:352:SER:HB2	2.30	0.46
1:E:234:LEU:HD22	1:E:322:GLY:CA	2.46	0.46
1:F:38:THR:HB	1:F:44:MET:O	2.16	0.46
1:F:522:ARG:HH12	1:G:54:ASP:H	1.61	0.46
1:I:236:ASN:HB2	1:I:324:ASN:HD21	1.81	0.46
1:J:311:LYS:N	1:J:311:LYS:HD2	2.31	0.46
1:J:510:LEU:O	1:J:511:ARG:HB3	2.15	0.46
1:K:11:ASN:ND2	1:K:12:MET:HE2	2.31	0.46
1:K:38:THR:HB	1:K:44:MET:O	2.16	0.46
1:K:42:LYS:HZ1	1:K:446:GLU:HA	1.81	0.46
1:L:311:LYS:HD2	1:L:311:LYS:N	2.31	0.46
1:L:316:LYS:HD3	1:L:366:THR:HG22	1.97	0.46
1:M:38:THR:HB	1:M:44:MET:O	2.16	0.46
1:M:342:LEU:CD1	1:M:342:LEU:H	2.29	0.46
1:N:236:ASN:HB2	1:N:324:ASN:HD21	1.81	0.46
1:O:112:ASP:O	1:O:113:GLN:CB	2.64	0.46
1:O:412:SER:HB2	1:O:438:GLU:CD	2.41	0.46
1:P:103:LEU:C	1:P:105:ARG:H	2.21	0.46
1:P:172:GLU:HB3	1:P:207:GLU:CD	2.40	0.46
1:A:311:LYS:HD2	1:A:311:LYS:N	2.31	0.46
1:A:404:GLY:HA3	1:A:487:GLY:HA3	1.98	0.46
1:B:111:LEU:HG	1:B:114:ASN:CB	2.40	0.46
1:B:112:ASP:O	1:B:113:GLN:CB	2.64	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:203:ILE:CG2	1:B:372:THR:HG23	2.45	0.46
1:C:165:LYS:C	1:C:167:LYS:N	2.74	0.46
1:C:208:LEU:CG	1:C:210:LYS:H	2.26	0.46
1:C:236:ASN:HB2	1:C:324:ASN:HD21	1.81	0.46
1:C:342:LEU:H	1:C:342:LEU:CD1	2.29	0.46
1:D:38:THR:HB	1:D:44:MET:O	2.16	0.46
1:D:146:ASP:CG	1:D:150:LEU:HG	2.41	0.46
1:D:165:LYS:C	1:D:167:LYS:N	2.74	0.46
1:D:332:LEU:HD13	1:D:332:LEU:HA	1.76	0.46
1:E:147:LYS:HD2	1:E:147:LYS:N	2.31	0.46
1:E:311:LYS:N	1:E:311:LYS:HD2	2.31	0.46
1:E:316:LYS:HD3	1:E:366:THR:HG22	1.97	0.46
1:F:198:LYS:N	1:F:369:ILE:O	2.49	0.46
1:G:207:GLU:HA	1:G:369:ILE:CG2	2.44	0.46
1:G:311:LYS:N	1:G:311:LYS:HD2	2.31	0.46
1:G:440:ILE:C	1:G:442:ARG:N	2.74	0.46
1:H:11:ASN:ND2	1:H:12:MET:HE2	2.31	0.46
1:H:218:ARG:O	1:H:224:PRO:HB2	2.15	0.46
1:I:124:TYR:CE1	1:I:433:PHE:CE1	3.05	0.46
1:I:198:LYS:N	1:I:369:ILE:O	2.49	0.46
1:J:20:ALA:HB1	1:J:516:ILE:HB	1.98	0.46
1:J:128:ALA:CB	1:J:500:GLN:NE2	2.79	0.46
1:J:369:ILE:HG13	1:J:370:ARG:N	2.31	0.46
1:J:440:ILE:C	1:J:442:ARG:N	2.74	0.46
1:K:198:LYS:N	1:K:369:ILE:O	2.49	0.46
1:L:54:ASP:H	1:M:522:ARG:HH12	1.61	0.46
1:L:342:LEU:CD1	1:L:342:LEU:H	2.29	0.46
1:M:146:ASP:CG	1:M:150:LEU:HG	2.41	0.46
1:M:165:LYS:C	1:M:167:LYS:N	2.74	0.46
1:M:369:ILE:HG13	1:M:370:ARG:N	2.31	0.46
1:N:124:TYR:CE1	1:N:433:PHE:CE1	3.05	0.46
1:N:165:LYS:C	1:N:167:LYS:N	2.74	0.46
1:N:400:ILE:O	1:N:401:VAL:HB	2.15	0.46
1:O:47:MET:CA	1:P:512:ILE:HD11	2.46	0.46
1:O:203:ILE:CG2	1:O:372:THR:HG23	2.45	0.46
1:P:112:ASP:O	1:P:113:GLN:CB	2.64	0.46
1:P:128:ALA:CB	1:P:500:GLN:NE2	2.79	0.46
1:P:192:LEU:HD13	1:P:363:LYS:HZ1	1.80	0.46
1:A:20:ALA:HB1	1:A:516:ILE:CB	2.47	0.45
1:B:20:ALA:HB1	1:B:516:ILE:CB	2.46	0.45
1:B:38:THR:HB	1:B:44:MET:O	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:269:LEU:HD13	1:B:269:LEU:HA	1.80	0.45
1:C:124:TYR:CE1	1:C:433:PHE:CE1	3.05	0.45
1:C:209:ILE:HG22	1:C:367:MET:HA	1.99	0.45
1:C:369:ILE:HG13	1:C:370:ARG:N	2.31	0.45
1:C:480:VAL:CG1	1:C:481:GLU:H	2.17	0.45
1:C:512:ILE:HG13	1:C:512:ILE:O	2.17	0.45
1:D:42:LYS:HZ1	1:D:446:GLU:HA	1.80	0.45
1:D:207:GLU:HA	1:D:369:ILE:CG2	2.44	0.45
1:D:369:ILE:HG13	1:D:370:ARG:N	2.31	0.45
1:D:374:GLU:CA	1:D:377:ILE:HG22	2.47	0.45
1:E:38:THR:HB	1:E:44:MET:O	2.16	0.45
1:E:290:ILE:HD13	1:E:290:ILE:H	1.81	0.45
1:E:342:LEU:CD1	1:E:342:LEU:H	2.29	0.45
1:E:379:GLU:HA	1:E:382:ARG:HD2	1.97	0.45
1:F:128:ALA:CB	1:F:500:GLN:NE2	2.79	0.45
1:G:20:ALA:HB1	1:G:516:ILE:HB	1.98	0.45
1:G:128:ALA:CB	1:G:500:GLN:NE2	2.79	0.45
1:G:198:LYS:N	1:G:369:ILE:O	2.49	0.45
1:G:369:ILE:HG13	1:G:370:ARG:N	2.31	0.45
1:G:379:GLU:HA	1:G:382:ARG:HD2	1.97	0.45
1:G:461:ALA:O	1:G:462:ALA:HB3	2.16	0.45
1:G:510:LEU:O	1:G:511:ARG:HB3	2.15	0.45
1:H:124:TYR:CE1	1:H:433:PHE:CE1	3.05	0.45
1:H:147:LYS:HD2	1:H:147:LYS:N	2.31	0.45
1:H:214:VAL:HA	1:H:316:LYS:CG	2.42	0.45
1:I:11:ASN:ND2	1:I:12:MET:HE2	2.31	0.45
1:I:49:VAL:HG11	1:J:13:LYS:CG	2.45	0.45
1:I:147:LYS:HD2	1:I:147:LYS:N	2.31	0.45
1:I:208:LEU:CG	1:I:210:LYS:H	2.26	0.45
1:J:54:ASP:H	1:K:522:ARG:HH12	1.61	0.45
1:J:110:LEU:CD2	1:J:111:LEU:H	2.29	0.45
1:J:198:LYS:N	1:J:369:ILE:O	2.49	0.45
1:J:461:ALA:O	1:J:462:ALA:HB3	2.16	0.45
1:K:128:ALA:CB	1:K:500:GLN:NE2	2.79	0.45
1:L:38:THR:HB	1:L:44:MET:O	2.16	0.45
1:L:216:LYS:NZ	1:L:352:SER:HB2	2.30	0.45
1:M:207:GLU:HA	1:M:369:ILE:CG2	2.44	0.45
1:M:311:LYS:N	1:M:311:LYS:HD2	2.31	0.45
1:M:374:GLU:CA	1:M:377:ILE:HG22	2.47	0.45
1:M:512:ILE:O	1:M:512:ILE:HG13	2.17	0.45
1:N:209:ILE:HG22	1:N:367:MET:HA	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:311:LYS:HD2	1:N:311:LYS:N	2.31	0.45
1:N:342:LEU:H	1:N:342:LEU:CD1	2.29	0.45
1:N:369:ILE:HG13	1:N:370:ARG:N	2.31	0.45
1:N:411:LEU:O	1:N:411:LEU:HD22	2.15	0.45
1:N:512:ILE:HG13	1:N:512:ILE:O	2.17	0.45
1:O:20:ALA:HB1	1:O:516:ILE:CB	2.46	0.45
1:O:38:THR:HB	1:O:44:MET:O	2.16	0.45
1:O:290:ILE:HD13	1:O:290:ILE:H	1.81	0.45
1:O:369:ILE:HG13	1:O:370:ARG:N	2.31	0.45
1:P:20:ALA:HB1	1:P:516:ILE:CB	2.47	0.45
1:P:198:LYS:HD3	1:P:377:ILE:CG2	2.45	0.45
1:B:124:TYR:CE1	1:B:433:PHE:CE1	3.05	0.45
1:B:379:GLU:HA	1:B:382:ARG:HD2	1.97	0.45
1:C:20:ALA:HB1	1:C:516:ILE:HB	1.98	0.45
1:C:192:LEU:HD11	1:C:363:LYS:HZ3	1.81	0.45
1:C:311:LYS:N	1:C:311:LYS:HD2	2.31	0.45
1:C:519:GLU:HG3	1:C:520:LYS:HE2	1.99	0.45
1:D:192:LEU:HD13	1:D:363:LYS:HZ1	1.81	0.45
1:D:379:GLU:HA	1:D:382:ARG:HD2	1.98	0.45
1:D:512:ILE:HD11	1:E:47:MET:CA	2.46	0.45
1:D:512:ILE:O	1:D:512:ILE:HG13	2.17	0.45
1:D:522:ARG:HH12	1:E:54:ASP:H	1.61	0.45
1:E:239:ILE:HD12	1:E:239:ILE:N	2.32	0.45
1:E:519:GLU:HG3	1:E:520:LYS:HE2	1.99	0.45
1:F:369:ILE:HG13	1:F:370:ARG:N	2.31	0.45
1:G:13:LYS:CG	1:H:49:VAL:HG11	2.45	0.45
1:G:110:LEU:CD2	1:G:111:LEU:H	2.29	0.45
1:G:124:TYR:CE1	1:G:433:PHE:CE1	3.05	0.45
1:G:519:GLU:HG3	1:G:520:LYS:HE2	1.99	0.45
1:H:20:ALA:HB1	1:H:516:ILE:CB	2.46	0.45
1:H:70:VAL:CG2	1:H:71:GLU:H	2.18	0.45
1:H:172:GLU:OE1	1:H:207:GLU:HB3	2.17	0.45
1:H:192:LEU:HD11	1:H:363:LYS:HZ3	1.82	0.45
1:H:290:ILE:HD13	1:H:290:ILE:H	1.81	0.45
1:I:20:ALA:HB1	1:I:516:ILE:CB	2.47	0.45
1:I:128:ALA:CB	1:I:500:GLN:NE2	2.79	0.45
1:I:172:GLU:OE1	1:I:207:GLU:HB3	2.17	0.45
1:I:192:LEU:HD11	1:I:363:LYS:HZ3	1.82	0.45
1:I:290:ILE:HD13	1:I:290:ILE:H	1.81	0.45
1:J:124:TYR:CE1	1:J:433:PHE:CE1	3.05	0.45
1:J:198:LYS:HD3	1:J:377:ILE:CG2	2.45	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:379:GLU:HA	1:J:382:ARG:HD2	1.97	0.45
1:J:519:GLU:HG3	1:J:520:LYS:HE2	1.99	0.45
1:K:342:LEU:H	1:K:342:LEU:CD1	2.29	0.45
1:K:369:ILE:HG13	1:K:370:ARG:N	2.31	0.45
1:K:411:LEU:O	1:K:411:LEU:HD22	2.15	0.45
1:K:461:ALA:O	1:K:462:ALA:HB3	2.17	0.45
1:L:290:ILE:HD13	1:L:290:ILE:H	1.81	0.45
1:L:379:GLU:HA	1:L:382:ARG:HD2	1.97	0.45
1:L:461:ALA:O	1:L:462:ALA:HB3	2.16	0.45
1:L:519:GLU:HG3	1:L:520:LYS:HE2	1.99	0.45
1:M:42:LYS:HZ1	1:M:446:GLU:HA	1.80	0.45
1:M:347:LYS:N	1:M:353:MET:SD	2.86	0.45
1:M:379:GLU:HA	1:M:382:ARG:HD2	1.98	0.45
1:M:461:ALA:O	1:M:462:ALA:HB3	2.17	0.45
1:N:20:ALA:HB1	1:N:516:ILE:HB	1.98	0.45
1:N:94:THR:HA	1:N:97:VAL:CG2	2.45	0.45
1:N:146:ASP:CG	1:N:150:LEU:HG	2.41	0.45
1:N:225:LYS:HZ2	1:O:188:VAL:HG21	1.80	0.45
1:N:510:LEU:O	1:N:511:ARG:HB3	2.15	0.45
1:N:519:GLU:HG3	1:N:520:LYS:HE2	1.99	0.45
1:O:124:TYR:CE1	1:O:433:PHE:CE1	3.05	0.45
1:O:416:ARG:HH11	1:O:416:ARG:HG3	1.80	0.45
1:P:146:ASP:CG	1:P:150:LEU:HG	2.41	0.45
1:A:144:ALA:CB	1:A:400:ILE:HG13	2.21	0.45
1:A:146:ASP:CG	1:A:150:LEU:HG	2.41	0.45
1:A:147:LYS:HD2	1:A:147:LYS:N	2.31	0.45
1:A:192:LEU:HD13	1:A:363:LYS:HZ1	1.80	0.45
1:A:412:SER:HB2	1:A:438:GLU:CD	2.41	0.45
1:B:70:VAL:CG2	1:B:71:GLU:H	2.18	0.45
1:B:172:GLU:OE1	1:B:207:GLU:HB3	2.17	0.45
1:B:290:ILE:HD13	1:B:290:ILE:H	1.81	0.45
1:B:416:ARG:HG3	1:B:416:ARG:HH11	1.80	0.45
1:B:452:ALA:C	1:B:454:GLU:H	2.23	0.45
1:C:20:ALA:HB1	1:C:516:ILE:CB	2.47	0.45
1:C:379:GLU:HA	1:C:382:ARG:HD2	1.97	0.45
1:C:411:LEU:O	1:C:411:LEU:HD22	2.15	0.45
1:D:20:ALA:HB1	1:D:516:ILE:CB	2.47	0.45
1:D:461:ALA:O	1:D:462:ALA:HB3	2.17	0.45
1:E:400:ILE:O	1:E:401:VAL:HB	2.15	0.45
1:E:461:ALA:O	1:E:462:ALA:HB3	2.16	0.45
1:E:463:HIS:O	1:E:463:HIS:CG	2.70	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:512:ILE:HD11	1:F:47:MET:CA	2.46	0.45
1:F:146:ASP:CG	1:F:150:LEU:HG	2.41	0.45
1:F:239:ILE:HD12	1:F:239:ILE:N	2.32	0.45
1:F:316:LYS:HD3	1:F:366:THR:HG22	1.98	0.45
1:F:342:LEU:H	1:F:342:LEU:CD1	2.29	0.45
1:F:411:LEU:O	1:F:411:LEU:HD22	2.15	0.45
1:F:412:SER:HB2	1:F:438:GLU:CD	2.41	0.45
1:F:461:ALA:O	1:F:462:ALA:HB3	2.17	0.45
1:G:172:GLU:OE1	1:G:207:GLU:HB3	2.17	0.45
1:G:198:LYS:HD3	1:G:377:ILE:CG2	2.45	0.45
1:H:208:LEU:CG	1:H:210:LYS:H	2.26	0.45
1:I:188:VAL:HG21	1:P:225:LYS:HZ1	1.81	0.45
1:I:342:LEU:CD1	1:I:342:LEU:H	2.29	0.45
1:J:68:MET:CA	1:K:520:LYS:HD2	2.40	0.45
1:J:172:GLU:OE1	1:J:207:GLU:HB3	2.17	0.45
1:K:47:MET:CA	1:L:512:ILE:HD11	2.46	0.45
1:K:146:ASP:CG	1:K:150:LEU:HG	2.41	0.45
1:K:239:ILE:HD12	1:K:239:ILE:N	2.32	0.45
1:K:379:GLU:HA	1:K:382:ARG:HD2	1.98	0.45
1:K:412:SER:HB2	1:K:438:GLU:CD	2.41	0.45
1:K:436:ALA:CA	1:K:439:VAL:HG22	2.46	0.45
1:L:47:MET:CA	1:M:512:ILE:HD11	2.46	0.45
1:L:239:ILE:N	1:L:239:ILE:HD12	2.32	0.45
1:L:463:HIS:O	1:L:463:HIS:CG	2.70	0.45
1:M:110:LEU:CD2	1:M:111:LEU:H	2.29	0.45
1:M:385:ASP:CA	1:M:388:VAL:HG12	2.45	0.45
1:M:440:ILE:C	1:M:442:ARG:N	2.74	0.45
1:N:20:ALA:HB1	1:N:516:ILE:CB	2.47	0.45
1:N:207:GLU:HA	1:N:369:ILE:CG2	2.44	0.45
1:N:379:GLU:HA	1:N:382:ARG:HD2	1.97	0.45
1:N:461:ALA:O	1:N:462:ALA:HB3	2.16	0.45
1:O:44:MET:CE	1:O:58:THR:HG21	2.24	0.45
1:O:111:LEU:HG	1:O:114:ASN:CB	2.40	0.45
1:O:128:ALA:CB	1:O:500:GLN:NE2	2.79	0.45
1:O:147:LYS:HD2	1:O:147:LYS:N	2.31	0.45
1:P:38:THR:HB	1:P:44:MET:O	2.16	0.45
1:P:461:ALA:O	1:P:462:ALA:HB3	2.16	0.45
1:P:519:GLU:HG3	1:P:520:LYS:HE2	1.99	0.45
1:B:128:ALA:CB	1:B:500:GLN:NE2	2.79	0.45
1:B:147:LYS:HD2	1:B:147:LYS:N	2.31	0.45
1:B:403:GLY:HA3	1:B:489:VAL:O	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:94:THR:HA	1:C:97:VAL:CG2	2.45	0.45
1:C:146:ASP:CG	1:C:150:LEU:HG	2.41	0.45
1:C:203:ILE:CG2	1:C:372:THR:HG23	2.45	0.45
1:C:284:LEU:HD21	1:C:304:VAL:C	2.42	0.45
1:C:461:ALA:O	1:C:462:ALA:HB3	2.16	0.45
1:C:510:LEU:O	1:C:511:ARG:HB3	2.15	0.45
1:D:110:LEU:CD2	1:D:111:LEU:H	2.29	0.45
1:D:385:ASP:CA	1:D:388:VAL:HG12	2.45	0.45
1:D:440:ILE:C	1:D:442:ARG:N	2.74	0.45
1:F:251:ARG:HH11	1:G:258:LEU:HD13	1.79	0.45
1:F:374:GLU:CA	1:F:377:ILE:HG22	2.47	0.45
1:F:436:ALA:CA	1:F:439:VAL:HG22	2.46	0.45
1:G:406:SER:C	1:G:408:GLU:N	2.72	0.45
1:H:128:ALA:CB	1:H:500:GLN:NE2	2.79	0.45
1:H:146:ASP:CG	1:H:150:LEU:HG	2.41	0.45
1:H:342:LEU:CD1	1:H:342:LEU:H	2.29	0.45
1:I:47:MET:CA	1:J:512:ILE:HD11	2.46	0.45
1:I:70:VAL:CG2	1:I:71:GLU:H	2.18	0.45
1:I:121:VAL:HB	1:I:507:GLU:HG2	1.99	0.45
1:I:146:ASP:CG	1:I:150:LEU:HG	2.41	0.45
1:K:192:LEU:CD1	1:K:363:LYS:NZ	2.80	0.45
1:K:316:LYS:HD3	1:K:366:THR:HG22	1.98	0.45
1:L:131:ALA:CA	1:L:134:LEU:HD13	2.45	0.45
1:L:192:LEU:CD1	1:L:363:LYS:NZ	2.80	0.45
1:L:400:ILE:O	1:L:401:VAL:HB	2.15	0.45
1:L:512:ILE:O	1:L:512:ILE:HG13	2.17	0.45
1:M:20:ALA:HB1	1:M:516:ILE:CB	2.47	0.45
1:M:124:TYR:CE1	1:M:433:PHE:CE1	3.05	0.45
1:M:290:ILE:HD13	1:M:290:ILE:H	1.81	0.45
1:N:161:LYS:C	1:N:163:ALA:N	2.75	0.45
1:N:172:GLU:OE1	1:N:207:GLU:HB3	2.17	0.45
1:N:284:LEU:HD21	1:N:304:VAL:C	2.42	0.45
1:O:172:GLU:OE1	1:O:207:GLU:HB3	2.17	0.45
1:P:124:TYR:CE1	1:P:433:PHE:CE1	3.05	0.45
1:P:155:MET:HE2	1:P:158:ILE:HD11	1.98	0.45
1:P:178:VAL:C	1:P:181:VAL:HG12	2.42	0.45
1:P:342:LEU:CD1	1:P:342:LEU:H	2.29	0.45
1:P:401:VAL:HG13	1:P:492:LEU:CD2	2.43	0.45
1:A:124:TYR:CE1	1:A:433:PHE:CE1	3.05	0.45
1:A:161:LYS:C	1:A:163:ALA:N	2.75	0.45
1:A:178:VAL:C	1:A:181:VAL:HG12	2.42	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:234:LEU:HD22	1:A:322:GLY:CA	2.46	0.45
1:A:401:VAL:HG13	1:A:492:LEU:CD2	2.43	0.45
1:B:146:ASP:CG	1:B:150:LEU:HG	2.41	0.45
1:B:161:LYS:C	1:B:163:ALA:N	2.75	0.45
1:B:342:LEU:CD1	1:B:342:LEU:H	2.29	0.45
1:C:161:LYS:C	1:C:163:ALA:N	2.75	0.45
1:C:172:GLU:OE1	1:C:207:GLU:HB3	2.17	0.45
1:C:178:VAL:C	1:C:181:VAL:HG12	2.42	0.45
1:C:433:PHE:HE2	1:C:437:LEU:HG	1.80	0.45
1:D:99:VAL:HG23	1:D:440:ILE:CB	2.47	0.45
1:D:124:TYR:CE1	1:D:433:PHE:CE1	3.05	0.45
1:D:198:LYS:N	1:D:369:ILE:O	2.49	0.45
1:D:284:LEU:HD21	1:D:304:VAL:C	2.42	0.45
1:D:400:ILE:O	1:D:401:VAL:HB	2.15	0.45
1:E:192:LEU:CD1	1:E:363:LYS:NZ	2.80	0.45
1:E:213:LEU:HB3	1:E:366:THR:HG21	1.99	0.45
1:E:374:GLU:CA	1:E:377:ILE:HG22	2.46	0.45
1:E:512:ILE:HG13	1:E:512:ILE:O	2.17	0.45
1:F:155:MET:HE2	1:F:158:ILE:HD11	1.98	0.45
1:F:192:LEU:CD1	1:F:363:LYS:NZ	2.80	0.45
1:F:236:ASN:HB2	1:F:324:ASN:HD21	1.81	0.45
1:F:379:GLU:HA	1:F:382:ARG:HD2	1.98	0.45
1:F:522:ARG:CZ	1:G:55:VAL:HG23	2.47	0.45
1:G:121:VAL:HB	1:G:507:GLU:HG2	1.99	0.45
1:G:131:ALA:CA	1:G:134:LEU:HD13	2.45	0.45
1:G:174:ILE:O	1:G:178:VAL:N	2.48	0.45
1:G:213:LEU:HB3	1:G:366:THR:HG21	1.99	0.45
1:G:512:ILE:HD11	1:H:47:MET:CA	2.46	0.45
1:H:99:VAL:HG23	1:H:440:ILE:CB	2.47	0.45
1:H:209:ILE:HG22	1:H:367:MET:HA	1.98	0.45
1:H:379:GLU:HA	1:H:382:ARG:HD2	1.98	0.45
1:I:99:VAL:HG23	1:I:440:ILE:CB	2.47	0.45
1:I:209:ILE:HG22	1:I:367:MET:HA	1.98	0.45
1:I:461:ALA:O	1:I:462:ALA:HB3	2.17	0.45
1:I:512:ILE:HD11	1:P:47:MET:CA	2.46	0.45
1:J:38:THR:HB	1:J:44:MET:O	2.16	0.45
1:J:55:VAL:HG23	1:K:522:ARG:CZ	2.47	0.45
1:J:121:VAL:HB	1:J:507:GLU:HG2	1.99	0.45
1:J:213:LEU:HB3	1:J:366:THR:HG21	1.99	0.45
1:J:239:ILE:N	1:J:239:ILE:HD12	2.32	0.45
1:J:342:LEU:CD1	1:J:342:LEU:H	2.29	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:406:SER:C	1:J:408:GLU:N	2.72	0.45
1:J:433:PHE:HE2	1:J:437:LEU:HG	1.80	0.45
1:K:236:ASN:HB2	1:K:324:ASN:HD21	1.81	0.45
1:K:329:ILE:HG23	1:K:330:LYS:N	2.20	0.45
1:L:128:ALA:CB	1:L:500:GLN:NE2	2.79	0.45
1:L:213:LEU:HB3	1:L:366:THR:HG21	1.99	0.45
1:M:192:LEU:CD1	1:M:363:LYS:NZ	2.80	0.45
1:M:198:LYS:N	1:M:369:ILE:O	2.49	0.45
1:M:284:LEU:HD21	1:M:304:VAL:C	2.42	0.45
1:N:178:VAL:C	1:N:181:VAL:HG12	2.42	0.45
1:N:203:ILE:CG2	1:N:372:THR:HG23	2.45	0.45
1:O:155:MET:HE2	1:O:158:ILE:HD11	1.98	0.45
1:O:161:LYS:C	1:O:163:ALA:N	2.75	0.45
1:O:209:ILE:HG22	1:O:367:MET:HA	1.98	0.45
1:O:342:LEU:CD1	1:O:342:LEU:H	2.29	0.45
1:O:379:GLU:HA	1:O:382:ARG:HD2	1.98	0.45
1:P:147:LYS:HD2	1:P:147:LYS:N	2.31	0.45
1:P:161:LYS:C	1:P:163:ALA:N	2.75	0.45
1:P:192:LEU:CD1	1:P:363:LYS:NZ	2.80	0.45
1:P:433:PHE:HE2	1:P:437:LEU:HG	1.80	0.45
1:A:38:THR:HB	1:A:44:MET:O	2.16	0.45
1:A:47:MET:CA	1:H:512:ILE:HD11	2.46	0.45
1:A:99:VAL:HG23	1:A:440:ILE:CB	2.47	0.45
1:A:187:LYS:HD3	1:B:347:LYS:HE2	1.99	0.45
1:A:192:LEU:CD1	1:A:363:LYS:NZ	2.80	0.45
1:A:461:ALA:O	1:A:462:ALA:HB3	2.17	0.45
1:A:516:ILE:O	1:A:516:ILE:HD13	2.17	0.45
1:B:284:LEU:HD21	1:B:304:VAL:C	2.42	0.45
1:B:516:ILE:HD13	1:B:516:ILE:O	2.17	0.45
1:C:128:ALA:CB	1:C:500:GLN:NE2	2.79	0.45
1:C:207:GLU:HA	1:C:369:ILE:CG2	2.44	0.45
1:D:178:VAL:C	1:D:181:VAL:HG12	2.42	0.45
1:D:192:LEU:CD1	1:D:363:LYS:NZ	2.80	0.45
1:D:290:ILE:HD13	1:D:290:ILE:H	1.81	0.45
1:D:463:HIS:O	1:D:463:HIS:CG	2.70	0.45
1:E:128:ALA:CB	1:E:500:GLN:NE2	2.79	0.45
1:E:131:ALA:CA	1:E:134:LEU:HD13	2.45	0.45
1:E:436:ALA:CA	1:E:439:VAL:HG22	2.46	0.45
1:F:116:HIS:HA	1:F:117:PRO:HD2	1.93	0.45
1:F:172:GLU:OE1	1:F:207:GLU:HB3	2.17	0.45
1:F:520:LYS:HD2	1:G:68:MET:CA	2.40	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:239:ILE:N	1:G:239:ILE:HD12	2.32	0.45
1:G:342:LEU:CD1	1:G:342:LEU:H	2.29	0.45
1:H:121:VAL:HB	1:H:507:GLU:HG2	1.99	0.45
1:H:144:ALA:CB	1:H:400:ILE:HG13	2.21	0.45
1:H:192:LEU:CD1	1:H:363:LYS:NZ	2.80	0.45
1:H:461:ALA:O	1:H:462:ALA:HB3	2.17	0.45
1:H:519:GLU:HG3	1:H:520:LYS:HE2	1.98	0.45
1:I:165:LYS:C	1:I:167:LYS:N	2.74	0.45
1:I:192:LEU:CD1	1:I:363:LYS:NZ	2.80	0.45
1:I:198:LYS:HD3	1:I:377:ILE:CG2	2.46	0.45
1:I:379:GLU:HA	1:I:382:ARG:HD2	1.98	0.45
1:J:174:ILE:O	1:J:178:VAL:N	2.48	0.45
1:J:412:SER:HB2	1:J:438:GLU:CD	2.41	0.45
1:J:512:ILE:O	1:J:512:ILE:HG13	2.17	0.45
1:K:207:GLU:CA	1:K:369:ILE:HG21	2.46	0.45
1:L:369:ILE:HG13	1:L:370:ARG:N	2.31	0.45
1:L:374:GLU:CA	1:L:377:ILE:HG22	2.46	0.45
1:M:99:VAL:HG23	1:M:440:ILE:CB	2.47	0.45
1:M:161:LYS:C	1:M:163:ALA:N	2.75	0.45
1:M:236:ASN:HB2	1:M:324:ASN:HD21	1.81	0.45
1:M:400:ILE:O	1:M:401:VAL:HB	2.15	0.45
1:M:412:SER:HB2	1:M:438:GLU:CD	2.41	0.45
1:N:128:ALA:CB	1:N:500:GLN:NE2	2.79	0.45
1:N:374:GLU:CA	1:N:377:ILE:HG22	2.46	0.45
1:N:480:VAL:CG1	1:N:481:GLU:H	2.17	0.45
1:O:146:ASP:CG	1:O:150:LEU:HG	2.41	0.45
1:O:452:ALA:C	1:O:454:GLU:H	2.23	0.45
1:O:516:ILE:O	1:O:516:ILE:HD13	2.17	0.45
1:P:99:VAL:HG23	1:P:440:ILE:CB	2.47	0.45
1:P:110:LEU:CD2	1:P:111:LEU:H	2.29	0.45
1:P:225:LYS:HE2	1:P:346:ARG:HG3	1.99	0.45
1:P:516:ILE:O	1:P:516:ILE:HD13	2.17	0.45
1:A:110:LEU:CD2	1:A:111:LEU:H	2.29	0.45
1:A:121:VAL:HB	1:A:507:GLU:HG2	1.99	0.45
1:A:342:LEU:CD1	1:A:342:LEU:H	2.29	0.45
1:B:44:MET:CE	1:B:58:THR:HG21	2.24	0.45
1:B:209:ILE:HG22	1:B:367:MET:HA	1.99	0.45
1:B:512:ILE:O	1:B:512:ILE:HG13	2.17	0.45
1:C:374:GLU:CA	1:C:377:ILE:HG22	2.46	0.45
1:C:412:SER:HB2	1:C:438:GLU:CD	2.41	0.45
1:D:161:LYS:C	1:D:163:ALA:N	2.75	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:412:SER:HB2	1:D:438:GLU:CD	2.41	0.45
1:D:455:ILE:O	1:D:459:VAL:HG13	2.17	0.45
1:E:20:ALA:HB1	1:E:516:ILE:CB	2.47	0.45
1:E:178:VAL:C	1:E:181:VAL:HG12	2.42	0.45
1:E:247:ASP:O	1:E:249:GLU:N	2.50	0.45
1:E:410:GLU:CG	1:E:468:ASN:HD21	2.30	0.45
1:F:124:TYR:CE1	1:F:433:PHE:CE1	3.05	0.45
1:F:198:LYS:HD3	1:F:377:ILE:CG2	2.46	0.45
1:F:463:HIS:O	1:F:463:HIS:CG	2.70	0.45
1:G:38:THR:HB	1:G:44:MET:O	2.16	0.45
1:G:236:ASN:HB2	1:G:324:ASN:HD21	1.81	0.45
1:G:433:PHE:HE2	1:G:437:LEU:HG	1.80	0.45
1:G:512:ILE:O	1:G:512:ILE:HG13	2.17	0.45
1:H:178:VAL:C	1:H:181:VAL:HG12	2.42	0.45
1:H:198:LYS:HD3	1:H:377:ILE:CG2	2.46	0.45
1:H:225:LYS:HE2	1:H:346:ARG:HG3	1.99	0.45
1:H:440:ILE:C	1:H:442:ARG:N	2.74	0.45
1:I:178:VAL:C	1:I:181:VAL:HG12	2.42	0.45
1:I:225:LYS:HE2	1:I:346:ARG:HG3	1.99	0.45
1:I:522:ARG:CZ	1:P:55:VAL:HG23	2.47	0.45
1:J:284:LEU:HD21	1:J:304:VAL:C	2.42	0.45
1:J:515:VAL:C	1:J:517:ALA:H	2.24	0.45
1:K:124:TYR:CE1	1:K:433:PHE:CE1	3.05	0.45
1:K:172:GLU:OE1	1:K:207:GLU:HB3	2.17	0.45
1:K:225:LYS:HE2	1:K:346:ARG:HG3	1.99	0.45
1:K:374:GLU:CA	1:K:377:ILE:HG22	2.47	0.45
1:K:463:HIS:O	1:K:463:HIS:CG	2.70	0.45
1:K:515:VAL:C	1:K:517:ALA:H	2.24	0.45
1:L:20:ALA:HB1	1:L:516:ILE:CB	2.47	0.45
1:L:174:ILE:O	1:L:178:VAL:N	2.48	0.45
1:L:178:VAL:C	1:L:181:VAL:HG12	2.42	0.45
1:L:208:LEU:CG	1:L:210:LYS:H	2.26	0.45
1:L:410:GLU:CG	1:L:468:ASN:HD21	2.30	0.45
1:M:455:ILE:O	1:M:459:VAL:HG13	2.17	0.45
1:M:463:HIS:O	1:M:463:HIS:CG	2.70	0.45
1:N:173:ILE:HG21	1:N:384:VAL:HG22	1.99	0.45
1:N:290:ILE:HD13	1:N:290:ILE:H	1.81	0.45
1:O:70:VAL:CG2	1:O:71:GLU:H	2.18	0.45
1:O:269:LEU:HD13	1:O:269:LEU:HA	1.80	0.45
1:O:284:LEU:HD21	1:O:304:VAL:C	2.42	0.45
1:O:374:GLU:CA	1:O:377:ILE:HG22	2.47	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:512:ILE:O	1:O:512:ILE:HG13	2.17	0.45
1:P:234:LEU:HD22	1:P:322:GLY:CA	2.46	0.45
1:P:342:LEU:N	1:P:342:LEU:CD1	2.80	0.45
1:P:410:GLU:CG	1:P:468:ASN:HD21	2.30	0.45
1:P:412:SER:HB2	1:P:438:GLU:CD	2.41	0.45
1:A:55:VAL:HG23	1:H:522:ARG:CZ	2.47	0.45
1:A:172:GLU:OE1	1:A:207:GLU:HB3	2.17	0.45
1:A:290:ILE:CD1	1:A:290:ILE:H	2.30	0.45
1:A:342:LEU:N	1:A:342:LEU:CD1	2.80	0.45
1:A:522:ARG:CZ	1:B:55:VAL:HG23	2.47	0.45
1:B:290:ILE:H	1:B:290:ILE:CD1	2.30	0.45
1:C:13:LYS:HD3	1:D:49:VAL:CG1	2.38	0.45
1:C:173:ILE:HG21	1:C:384:VAL:HG22	1.99	0.45
1:C:217:GLU:C	1:C:219:VAL:N	2.75	0.45
1:C:287:GLN:O	1:C:308:ARG:HD3	2.17	0.45
1:C:290:ILE:HD13	1:C:290:ILE:H	1.81	0.45
1:C:440:ILE:C	1:C:442:ARG:N	2.74	0.45
1:C:512:ILE:HD11	1:D:47:MET:CA	2.46	0.45
1:D:239:ILE:N	1:D:239:ILE:HD12	2.32	0.45
1:E:174:ILE:O	1:E:178:VAL:N	2.48	0.45
1:E:225:LYS:HE2	1:E:346:ARG:HG3	1.99	0.45
1:E:369:ILE:HG13	1:E:370:ARG:N	2.31	0.45
1:E:455:ILE:O	1:E:459:VAL:HG13	2.17	0.45
1:F:121:VAL:HB	1:F:507:GLU:HG2	1.99	0.45
1:F:160:GLY:O	1:F:162:GLY:N	2.49	0.45
1:F:207:GLU:CA	1:F:369:ILE:HG21	2.46	0.45
1:F:225:LYS:HE2	1:F:346:ARG:HG3	1.99	0.45
1:F:440:ILE:C	1:F:442:ARG:N	2.74	0.45
1:G:284:LEU:HD21	1:G:304:VAL:C	2.42	0.45
1:G:412:SER:HB2	1:G:438:GLU:CD	2.41	0.45
1:H:112:ASP:O	1:H:113:GLN:CB	2.64	0.45
1:H:342:LEU:N	1:H:342:LEU:CD1	2.80	0.45
1:I:239:ILE:HD12	1:I:239:ILE:N	2.32	0.45
1:I:342:LEU:N	1:I:342:LEU:CD1	2.80	0.45
1:J:20:ALA:HB1	1:J:516:ILE:CB	2.47	0.45
1:J:61:GLY:CA	1:J:94:THR:HG21	2.32	0.45
1:K:121:VAL:HB	1:K:507:GLU:HG2	1.99	0.45
1:K:160:GLY:O	1:K:162:GLY:N	2.49	0.45
1:K:440:ILE:C	1:K:442:ARG:N	2.74	0.45
1:L:225:LYS:HE2	1:L:346:ARG:HG3	1.99	0.45
1:L:247:ASP:O	1:L:249:GLU:N	2.50	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:436:ALA:CA	1:L:439:VAL:HG22	2.46	0.45
1:L:455:ILE:O	1:L:459:VAL:HG13	2.17	0.45
1:M:47:MET:CA	1:N:512:ILE:HD11	2.46	0.45
1:M:128:ALA:CB	1:M:500:GLN:NE2	2.79	0.45
1:M:178:VAL:C	1:M:181:VAL:HG12	2.42	0.45
1:N:112:ASP:O	1:N:113:GLN:CB	2.64	0.45
1:N:258:LEU:HD13	1:O:251:ARG:HH11	1.80	0.45
1:N:290:ILE:H	1:N:290:ILE:CD1	2.30	0.45
1:N:412:SER:HB2	1:N:438:GLU:CD	2.41	0.45
1:N:433:PHE:HE2	1:N:437:LEU:HG	1.80	0.45
1:O:55:VAL:HG23	1:P:522:ARG:CZ	2.47	0.45
1:O:290:ILE:H	1:O:290:ILE:CD1	2.30	0.45
1:O:347:LYS:HE2	1:P:187:LYS:HD3	1.99	0.45
1:P:144:ALA:CB	1:P:400:ILE:HG13	2.21	0.45
1:P:374:GLU:CA	1:P:377:ILE:HG22	2.46	0.45
1:A:144:ALA:HB2	1:A:400:ILE:CG1	2.22	0.45
1:A:225:LYS:HE2	1:A:346:ARG:HG3	1.99	0.45
1:A:290:ILE:HD13	1:A:290:ILE:H	1.80	0.45
1:A:369:ILE:HG13	1:A:370:ARG:N	2.31	0.45
1:A:374:GLU:CA	1:A:377:ILE:HG22	2.47	0.45
1:A:455:ILE:O	1:A:459:VAL:HG13	2.17	0.45
1:B:20:ALA:HB1	1:B:516:ILE:HB	1.98	0.45
1:B:99:VAL:HG23	1:B:440:ILE:CB	2.47	0.45
1:B:121:VAL:HB	1:B:507:GLU:HG2	1.99	0.45
1:B:374:GLU:CA	1:B:377:ILE:HG22	2.47	0.45
1:C:112:ASP:O	1:C:113:GLN:CB	2.64	0.45
1:C:155:MET:HE2	1:C:158:ILE:HD11	1.97	0.45
1:C:290:ILE:H	1:C:290:ILE:CD1	2.30	0.45
1:C:522:ARG:CZ	1:D:55:VAL:HG23	2.47	0.45
1:D:128:ALA:CB	1:D:500:GLN:NE2	2.79	0.45
1:D:173:ILE:HG21	1:D:384:VAL:HG22	1.99	0.45
1:D:209:ILE:HG22	1:D:367:MET:HA	1.98	0.45
1:D:236:ASN:HB2	1:D:324:ASN:HD21	1.81	0.45
1:D:287:GLN:O	1:D:308:ARG:HD3	2.17	0.45
1:E:124:TYR:CE1	1:E:433:PHE:CE1	3.05	0.45
1:E:227:VAL:CG2	1:E:303:ILE:HB	2.35	0.45
1:F:192:LEU:HD13	1:F:363:LYS:HZ1	1.81	0.45
1:F:227:VAL:CG2	1:F:303:ILE:HB	2.35	0.45
1:F:401:VAL:HG13	1:F:492:LEU:CD2	2.43	0.45
1:G:20:ALA:HB1	1:G:516:ILE:CB	2.47	0.45
1:G:178:VAL:C	1:G:181:VAL:HG12	2.42	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:374:GLU:CA	1:G:377:ILE:HG22	2.46	0.45
1:G:410:GLU:CG	1:G:468:ASN:HD21	2.30	0.45
1:H:165:LYS:C	1:H:167:LYS:N	2.74	0.45
1:H:168:GLU:C	1:H:170:LEU:H	2.20	0.45
1:H:239:ILE:HD12	1:H:239:ILE:N	2.32	0.45
1:H:287:GLN:O	1:H:308:ARG:HD3	2.17	0.45
1:I:20:ALA:HB1	1:I:516:ILE:HB	1.98	0.45
1:I:112:ASP:O	1:I:113:GLN:CB	2.64	0.45
1:I:168:GLU:C	1:I:170:LEU:H	2.20	0.45
1:I:287:GLN:O	1:I:308:ARG:HD3	2.17	0.45
1:I:440:ILE:C	1:I:442:ARG:N	2.74	0.45
1:I:452:ALA:C	1:I:454:GLU:H	2.23	0.45
1:I:519:GLU:HG3	1:I:520:LYS:HE2	1.98	0.45
1:I:520:LYS:HD2	1:P:68:MET:CA	2.40	0.45
1:J:112:ASP:O	1:J:113:GLN:CB	2.64	0.45
1:J:178:VAL:C	1:J:181:VAL:HG12	2.42	0.45
1:J:236:ASN:HB2	1:J:324:ASN:HD21	1.81	0.45
1:K:155:MET:HE2	1:K:158:ILE:HD11	1.98	0.45
1:L:29:ARG:HH21	1:L:105:ARG:CG	2.24	0.45
1:L:124:TYR:CE1	1:L:433:PHE:CE1	3.05	0.45
1:L:146:ASP:CG	1:L:150:LEU:HG	2.41	0.45
1:M:49:VAL:CG1	1:N:13:LYS:HD3	2.38	0.45
1:M:55:VAL:HG23	1:N:522:ARG:CZ	2.47	0.45
1:M:173:ILE:HG21	1:M:384:VAL:HG22	1.99	0.45
1:M:239:ILE:N	1:M:239:ILE:HD12	2.32	0.45
1:M:287:GLN:O	1:M:308:ARG:HD3	2.17	0.45
1:N:217:GLU:C	1:N:219:VAL:N	2.75	0.45
1:N:247:ASP:O	1:N:249:GLU:N	2.50	0.45
1:N:287:GLN:O	1:N:308:ARG:HD3	2.17	0.45
1:O:121:VAL:HB	1:O:507:GLU:HG2	1.99	0.45
1:P:121:VAL:HB	1:P:507:GLU:HG2	1.99	0.45
1:P:290:ILE:CD1	1:P:290:ILE:H	2.30	0.45
1:P:369:ILE:HG13	1:P:370:ARG:N	2.31	0.45
1:P:455:ILE:O	1:P:459:VAL:HG13	2.17	0.45
1:A:209:ILE:HG22	1:A:367:MET:HA	1.99	0.45
1:A:213:LEU:HB3	1:A:366:THR:HG21	1.99	0.45
1:A:410:GLU:CG	1:A:468:ASN:HD21	2.31	0.45
1:B:239:ILE:N	1:B:239:ILE:HD12	2.32	0.45
1:B:342:LEU:N	1:B:342:LEU:CD1	2.80	0.45
1:B:519:GLU:HG3	1:B:520:LYS:HE2	1.98	0.45
1:C:239:ILE:HD12	1:C:239:ILE:N	2.32	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:247:ASP:O	1:C:249:GLU:N	2.50	0.45
1:C:406:SER:C	1:C:408:GLU:N	2.72	0.45
1:C:410:GLU:CG	1:C:468:ASN:HD21	2.30	0.45
1:D:242:LYS:C	1:D:244:THR:H	2.25	0.45
1:D:290:ILE:O	1:D:290:ILE:HG12	2.17	0.45
1:D:406:SER:C	1:D:408:GLU:N	2.72	0.45
1:E:113:GLN:O	1:E:113:GLN:HG2	2.17	0.45
1:E:146:ASP:CG	1:E:150:LEU:HG	2.41	0.45
1:E:208:LEU:CG	1:E:210:LYS:H	2.26	0.45
1:E:284:LEU:HD21	1:E:304:VAL:C	2.42	0.45
1:E:406:SER:C	1:E:408:GLU:N	2.72	0.45
1:F:512:ILE:HD11	1:G:47:MET:CA	2.46	0.45
1:F:515:VAL:C	1:F:517:ALA:H	2.24	0.45
1:G:112:ASP:O	1:G:113:GLN:CB	2.64	0.45
1:G:225:LYS:HE2	1:G:346:ARG:HG3	1.99	0.45
1:G:247:ASP:O	1:G:249:GLU:N	2.50	0.45
1:G:515:VAL:C	1:G:517:ALA:H	2.24	0.45
1:H:20:ALA:HB1	1:H:516:ILE:HB	1.98	0.45
1:I:455:ILE:O	1:I:459:VAL:HG13	2.17	0.45
1:J:47:MET:CA	1:K:512:ILE:HD11	2.46	0.45
1:J:347:LYS:N	1:J:353:MET:SD	2.86	0.45
1:J:374:GLU:CA	1:J:377:ILE:HG22	2.46	0.45
1:J:410:GLU:CG	1:J:468:ASN:HD21	2.30	0.45
1:K:116:HIS:HA	1:K:117:PRO:HD2	1.93	0.45
1:K:401:VAL:HG13	1:K:492:LEU:CD2	2.43	0.45
1:L:113:GLN:HG2	1:L:113:GLN:O	2.17	0.45
1:L:284:LEU:HD21	1:L:304:VAL:C	2.42	0.45
1:M:209:ILE:HG22	1:M:367:MET:HA	1.98	0.45
1:M:290:ILE:O	1:M:290:ILE:HG12	2.17	0.45
1:M:410:GLU:CG	1:M:468:ASN:HD21	2.30	0.45
1:M:519:GLU:HG3	1:M:520:LYS:HE2	1.98	0.45
1:N:155:MET:HE2	1:N:158:ILE:HD11	1.98	0.45
1:N:192:LEU:CD1	1:N:363:LYS:NZ	2.80	0.45
1:N:385:ASP:CA	1:N:388:VAL:HG12	2.45	0.45
1:N:440:ILE:C	1:N:442:ARG:N	2.74	0.45
1:N:455:ILE:O	1:N:459:VAL:HG13	2.17	0.45
1:O:99:VAL:HG23	1:O:440:ILE:CB	2.47	0.45
1:O:214:VAL:HA	1:O:316:LYS:CG	2.42	0.45
1:O:225:LYS:HE2	1:O:346:ARG:HG3	1.99	0.45
1:O:342:LEU:N	1:O:342:LEU:CD1	2.80	0.45
1:O:463:HIS:CG	1:O:463:HIS:O	2.70	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:213:LEU:HB3	1:P:366:THR:HG21	1.99	0.45
1:A:287:GLN:O	1:A:308:ARG:HD3	2.17	0.44
1:B:65:LEU:CD1	1:B:79:ILE:HG23	2.47	0.44
1:B:463:HIS:CG	1:B:463:HIS:O	2.70	0.44
1:B:512:ILE:HD11	1:C:47:MET:CA	2.46	0.44
1:C:192:LEU:CD1	1:C:363:LYS:NZ	2.80	0.44
1:C:455:ILE:O	1:C:459:VAL:HG13	2.17	0.44
1:D:225:LYS:HE2	1:D:346:ARG:HG3	1.99	0.44
1:D:410:GLU:CG	1:D:468:ASN:HD21	2.30	0.44
1:E:29:ARG:HH21	1:E:105:ARG:CG	2.24	0.44
1:E:112:ASP:O	1:E:113:GLN:CB	2.64	0.44
1:E:160:GLY:O	1:E:162:GLY:N	2.49	0.44
1:E:172:GLU:OE1	1:E:207:GLU:HB3	2.17	0.44
1:E:198:LYS:HD3	1:E:377:ILE:CG2	2.45	0.44
1:E:287:GLN:O	1:E:308:ARG:HD3	2.17	0.44
1:E:433:PHE:HE2	1:E:437:LEU:HG	1.80	0.44
1:F:20:ALA:HB1	1:F:516:ILE:CB	2.47	0.44
1:F:112:ASP:O	1:F:113:GLN:CB	2.64	0.44
1:F:290:ILE:HD13	1:F:290:ILE:H	1.81	0.44
1:F:291:ASP:C	1:F:295:GLN:HB2	2.43	0.44
1:F:455:ILE:O	1:F:459:VAL:HG13	2.17	0.44
1:G:192:LEU:CD1	1:G:363:LYS:NZ	2.80	0.44
1:G:290:ILE:HD13	1:G:290:ILE:H	1.81	0.44
1:H:161:LYS:C	1:H:163:ALA:N	2.75	0.44
1:H:290:ILE:H	1:H:290:ILE:CD1	2.30	0.44
1:H:455:ILE:O	1:H:459:VAL:HG13	2.17	0.44
1:H:516:ILE:O	1:H:516:ILE:HD13	2.17	0.44
1:I:55:VAL:HG23	1:J:522:ARG:CZ	2.47	0.44
1:I:161:LYS:C	1:I:163:ALA:N	2.75	0.44
1:I:369:ILE:HG13	1:I:370:ARG:N	2.31	0.44
1:I:516:ILE:O	1:I:516:ILE:HD13	2.17	0.44
1:J:192:LEU:CD1	1:J:363:LYS:NZ	2.80	0.44
1:J:225:LYS:HE2	1:J:346:ARG:HG3	1.99	0.44
1:J:247:ASP:O	1:J:249:GLU:N	2.50	0.44
1:K:55:VAL:HG23	1:L:522:ARG:CZ	2.47	0.44
1:K:112:ASP:O	1:K:113:GLN:CB	2.64	0.44
1:K:227:VAL:CG2	1:K:303:ILE:HB	2.35	0.44
1:K:291:ASP:C	1:K:295:GLN:HB2	2.43	0.44
1:K:455:ILE:O	1:K:459:VAL:HG13	2.17	0.44
1:L:121:VAL:HB	1:L:507:GLU:HG2	1.99	0.44
1:L:160:GLY:O	1:L:162:GLY:N	2.49	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:172:GLU:OE1	1:L:207:GLU:HB3	2.17	0.44
1:L:227:VAL:CG2	1:L:303:ILE:HB	2.35	0.44
1:M:225:LYS:HE2	1:M:346:ARG:HG3	1.99	0.44
1:M:242:LYS:C	1:M:244:THR:H	2.25	0.44
1:M:290:ILE:H	1:M:290:ILE:CD1	2.30	0.44
1:M:406:SER:C	1:M:408:GLU:N	2.72	0.44
1:N:213:LEU:HB3	1:N:366:THR:HG21	1.99	0.44
1:N:239:ILE:HD12	1:N:239:ILE:N	2.32	0.44
1:N:406:SER:C	1:N:408:GLU:N	2.72	0.44
1:N:410:GLU:CG	1:N:468:ASN:HD21	2.30	0.44
1:O:198:LYS:HD3	1:O:377:ILE:CG2	2.46	0.44
1:O:290:ILE:O	1:O:290:ILE:HG12	2.17	0.44
1:O:455:ILE:O	1:O:459:VAL:HG13	2.17	0.44
1:P:172:GLU:OE1	1:P:207:GLU:HB3	2.17	0.44
1:P:209:ILE:HG22	1:P:367:MET:HA	1.99	0.44
1:A:284:LEU:HD21	1:A:304:VAL:C	2.42	0.44
1:B:187:LYS:HD3	1:C:347:LYS:HE2	1.99	0.44
1:B:251:ARG:HH11	1:C:258:LEU:HD13	1.81	0.44
1:B:455:ILE:O	1:B:459:VAL:HG13	2.17	0.44
1:C:213:LEU:HB3	1:C:366:THR:HG21	1.99	0.44
1:C:342:LEU:N	1:C:342:LEU:CD1	2.80	0.44
1:C:385:ASP:CA	1:C:388:VAL:HG12	2.45	0.44
1:C:463:HIS:O	1:C:463:HIS:CG	2.70	0.44
1:D:290:ILE:H	1:D:290:ILE:CD1	2.30	0.44
1:D:509:LEU:O	1:D:509:LEU:HG	2.17	0.44
1:E:121:VAL:HB	1:E:507:GLU:HG2	1.99	0.44
1:E:236:ASN:HB2	1:E:324:ASN:HD21	1.81	0.44
1:E:522:ARG:CZ	1:F:55:VAL:HG23	2.47	0.44
1:F:230:ALA:HB3	1:F:343:VAL:HG11	1.99	0.44
1:G:55:VAL:O	1:G:55:VAL:HG12	2.18	0.44
1:G:61:GLY:CA	1:G:94:THR:HG21	2.32	0.44
1:G:128:ALA:O	1:G:131:ALA:HB3	2.18	0.44
1:G:160:GLY:O	1:G:162:GLY:N	2.49	0.44
1:G:209:ILE:HG22	1:G:367:MET:HA	1.99	0.44
1:G:347:LYS:N	1:G:353:MET:SD	2.86	0.44
1:H:174:ILE:O	1:H:178:VAL:N	2.48	0.44
1:H:369:ILE:HG13	1:H:370:ARG:N	2.31	0.44
1:I:144:ALA:CB	1:I:400:ILE:HG13	2.21	0.44
1:I:174:ILE:O	1:I:178:VAL:N	2.48	0.44
1:I:290:ILE:H	1:I:290:ILE:CD1	2.30	0.44
1:I:522:ARG:NH1	1:P:54:ASP:N	2.58	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:128:ALA:O	1:J:131:ALA:HB3	2.18	0.44
1:J:160:GLY:O	1:J:162:GLY:N	2.49	0.44
1:J:209:ILE:HG22	1:J:367:MET:HA	1.99	0.44
1:J:463:HIS:O	1:J:463:HIS:CG	2.70	0.44
1:K:174:ILE:O	1:K:178:VAL:N	2.48	0.44
1:K:209:ILE:HG22	1:K:367:MET:HA	1.98	0.44
1:K:230:ALA:HB3	1:K:343:VAL:HG11	1.99	0.44
1:L:112:ASP:O	1:L:113:GLN:CB	2.64	0.44
1:L:217:GLU:C	1:L:219:VAL:N	2.75	0.44
1:L:287:GLN:O	1:L:308:ARG:HD3	2.17	0.44
1:L:290:ILE:O	1:L:290:ILE:HG12	2.17	0.44
1:L:509:LEU:O	1:L:509:LEU:HG	2.18	0.44
1:N:131:ALA:CA	1:N:134:LEU:HD13	2.45	0.44
1:N:225:LYS:HE2	1:N:346:ARG:HG3	1.99	0.44
1:N:347:LYS:HE2	1:O:187:LYS:HD3	1.99	0.44
1:O:20:ALA:HB1	1:O:516:ILE:HB	1.98	0.44
1:O:65:LEU:CD1	1:O:79:ILE:HG23	2.47	0.44
1:O:178:VAL:C	1:O:181:VAL:HG12	2.42	0.44
1:P:144:ALA:HB2	1:P:400:ILE:CG1	2.22	0.44
1:P:247:ASP:O	1:P:249:GLU:N	2.50	0.44
1:P:284:LEU:HD21	1:P:304:VAL:C	2.42	0.44
1:P:406:SER:C	1:P:408:GLU:N	2.72	0.44
1:P:463:HIS:O	1:P:463:HIS:CG	2.70	0.44
1:P:512:ILE:HG13	1:P:512:ILE:O	2.17	0.44
1:A:54:ASP:N	1:H:522:ARG:NH1	2.58	0.44
1:A:239:ILE:HD12	1:A:239:ILE:N	2.32	0.44
1:A:290:ILE:O	1:A:290:ILE:HG12	2.17	0.44
1:A:347:LYS:HE2	1:H:187:LYS:HD3	1.99	0.44
1:A:452:ALA:C	1:A:454:GLU:H	2.23	0.44
1:B:192:LEU:CD1	1:B:363:LYS:NZ	2.80	0.44
1:B:225:LYS:HE2	1:B:346:ARG:HG3	1.99	0.44
1:B:290:ILE:O	1:B:290:ILE:HG12	2.17	0.44
1:C:113:GLN:O	1:C:113:GLN:HG2	2.17	0.44
1:C:198:LYS:HD3	1:C:377:ILE:CG2	2.45	0.44
1:C:225:LYS:HE2	1:C:346:ARG:HG3	1.99	0.44
1:C:291:ASP:C	1:C:295:GLN:HB2	2.43	0.44
1:D:519:GLU:HG3	1:D:520:LYS:HE2	1.98	0.44
1:E:70:VAL:CG2	1:E:71:GLU:H	2.18	0.44
1:E:99:VAL:HG23	1:E:440:ILE:CB	2.47	0.44
1:E:290:ILE:O	1:E:290:ILE:HG12	2.17	0.44
1:E:342:LEU:N	1:E:342:LEU:CD1	2.80	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:509:LEU:O	1:E:509:LEU:HG	2.18	0.44
1:F:128:ALA:O	1:F:131:ALA:HB3	2.18	0.44
1:F:174:ILE:O	1:F:178:VAL:N	2.48	0.44
1:F:209:ILE:HG22	1:F:367:MET:HA	1.98	0.44
1:F:519:GLU:HG3	1:F:520:LYS:HE2	1.98	0.44
1:G:290:ILE:H	1:G:290:ILE:CD1	2.30	0.44
1:G:436:ALA:CA	1:G:439:VAL:HG22	2.46	0.44
1:G:463:HIS:O	1:G:463:HIS:CG	2.70	0.44
1:G:522:ARG:CZ	1:H:55:VAL:HG23	2.47	0.44
1:H:452:ALA:C	1:H:454:GLU:H	2.23	0.44
1:I:54:ASP:H	1:J:522:ARG:HH12	1.61	0.44
1:I:410:GLU:CG	1:I:468:ASN:HD21	2.30	0.44
1:J:55:VAL:O	1:J:55:VAL:HG12	2.18	0.44
1:J:113:GLN:O	1:J:113:GLN:HG2	2.17	0.44
1:J:192:LEU:HD13	1:J:363:LYS:HZ1	1.81	0.44
1:J:207:GLU:CA	1:J:369:ILE:HG21	2.46	0.44
1:J:290:ILE:HD13	1:J:290:ILE:H	1.81	0.44
1:K:20:ALA:HB1	1:K:516:ILE:CB	2.47	0.44
1:K:128:ALA:O	1:K:131:ALA:HB3	2.18	0.44
1:K:512:ILE:HG13	1:K:512:ILE:O	2.17	0.44
1:L:198:LYS:HD3	1:L:377:ILE:CG2	2.45	0.44
1:L:207:GLU:HA	1:L:369:ILE:CG2	2.44	0.44
1:L:236:ASN:HB2	1:L:324:ASN:HD21	1.81	0.44
1:L:342:LEU:N	1:L:342:LEU:CD1	2.80	0.44
1:L:406:SER:C	1:L:408:GLU:N	2.72	0.44
1:L:433:PHE:HE2	1:L:437:LEU:HG	1.80	0.44
1:M:172:GLU:OE1	1:M:207:GLU:HB3	2.17	0.44
1:M:509:LEU:O	1:M:509:LEU:HG	2.17	0.44
1:N:47:MET:CA	1:O:512:ILE:HD11	2.46	0.44
1:N:113:GLN:O	1:N:113:GLN:HG2	2.17	0.44
1:N:291:ASP:C	1:N:295:GLN:HB2	2.43	0.44
1:N:342:LEU:N	1:N:342:LEU:CD1	2.80	0.44
1:N:463:HIS:O	1:N:463:HIS:CG	2.70	0.44
1:N:516:ILE:O	1:N:516:ILE:HD13	2.17	0.44
1:O:192:LEU:CD1	1:O:363:LYS:NZ	2.80	0.44
1:O:239:ILE:N	1:O:239:ILE:HD12	2.32	0.44
1:O:246:THR:C	1:O:248:ALA:N	2.62	0.44
1:O:385:ASP:CA	1:O:388:VAL:HG12	2.45	0.44
1:P:239:ILE:HD12	1:P:239:ILE:N	2.32	0.44
1:P:287:GLN:O	1:P:308:ARG:HD3	2.17	0.44
1:P:290:ILE:HD13	1:P:290:ILE:H	1.81	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:452:ALA:C	1:P:454:GLU:H	2.23	0.44
1:A:68:MET:CA	1:H:520:LYS:HD2	2.40	0.44
1:A:247:ASP:O	1:A:249:GLU:N	2.50	0.44
1:A:463:HIS:O	1:A:463:HIS:CG	2.70	0.44
1:B:208:LEU:CG	1:B:210:LYS:H	2.26	0.44
1:C:131:ALA:CA	1:C:134:LEU:HD13	2.45	0.44
1:D:121:VAL:HB	1:D:507:GLU:HG2	1.99	0.44
1:D:213:LEU:HB3	1:D:366:THR:HG21	1.99	0.44
1:D:291:ASP:C	1:D:295:GLN:HB2	2.43	0.44
1:D:522:ARG:CZ	1:E:55:VAL:HG23	2.47	0.44
1:E:412:SER:HB2	1:E:438:GLU:CD	2.41	0.44
1:E:440:ILE:C	1:E:442:ARG:N	2.74	0.44
1:F:512:ILE:HG13	1:F:512:ILE:O	2.17	0.44
1:G:113:GLN:HG2	1:G:113:GLN:O	2.17	0.44
1:G:287:GLN:O	1:G:308:ARG:HD3	2.17	0.44
1:H:61:GLY:CA	1:H:94:THR:HG21	2.32	0.44
1:H:410:GLU:CG	1:H:468:ASN:HD21	2.30	0.44
1:I:55:VAL:O	1:I:55:VAL:HG12	2.18	0.44
1:I:61:GLY:CA	1:I:94:THR:HG21	2.32	0.44
1:J:99:VAL:HG23	1:J:440:ILE:CB	2.47	0.44
1:J:258:LEU:HD13	1:K:251:ARG:HH11	1.80	0.44
1:J:436:ALA:CA	1:J:439:VAL:HG22	2.46	0.44
1:K:65:LEU:HD13	1:K:65:LEU:HA	1.85	0.44
1:K:261:PHE:CD1	1:K:261:PHE:N	2.81	0.44
1:K:287:GLN:O	1:K:308:ARG:HD3	2.17	0.44
1:K:290:ILE:HD13	1:K:290:ILE:H	1.81	0.44
1:L:70:VAL:CG2	1:L:71:GLU:H	2.18	0.44
1:L:192:LEU:HD13	1:L:363:LYS:HZ1	1.82	0.44
1:L:412:SER:HB2	1:L:438:GLU:CD	2.41	0.44
1:L:440:ILE:C	1:L:442:ARG:N	2.74	0.44
1:M:121:VAL:HB	1:M:507:GLU:HG2	1.99	0.44
1:N:373:THR:O	1:N:377:ILE:HG22	2.18	0.44
1:O:168:GLU:C	1:O:170:LEU:H	2.20	0.44
1:O:208:LEU:CG	1:O:210:LYS:H	2.26	0.44
1:O:230:ALA:HB3	1:O:343:VAL:HG11	1.99	0.44
1:A:54:ASP:H	1:H:522:ARG:HH12	1.61	0.44
1:A:168:GLU:C	1:A:170:LEU:H	2.21	0.44
1:A:258:LEU:CD2	1:H:251:ARG:HH11	2.23	0.44
1:A:406:SER:C	1:A:408:GLU:N	2.72	0.44
1:A:512:ILE:O	1:A:512:ILE:HG13	2.17	0.44
1:B:13:LYS:HD3	1:C:49:VAL:CG1	2.37	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:173:ILE:HG21	1:B:384:VAL:HG22	1.99	0.44
1:B:196:GLU:HB3	1:B:197:LYS:H	1.64	0.44
1:B:230:ALA:HB3	1:B:343:VAL:HG11	2.00	0.44
1:B:291:ASP:C	1:B:295:GLN:HB2	2.42	0.44
1:C:116:HIS:HA	1:C:117:PRO:HD2	1.93	0.44
1:C:121:VAL:HB	1:C:507:GLU:HG2	1.99	0.44
1:C:328:ASN:OD1	1:D:296:HIS:HB2	2.18	0.44
1:C:373:THR:O	1:C:377:ILE:HG22	2.18	0.44
1:C:516:ILE:O	1:C:516:ILE:HD13	2.17	0.44
1:D:55:VAL:O	1:D:55:VAL:HG12	2.18	0.44
1:D:172:GLU:OE1	1:D:207:GLU:HB3	2.17	0.44
1:D:198:LYS:HD3	1:D:377:ILE:CG2	2.46	0.44
1:D:450:LEU:CD1	1:P:450:LEU:HD13	2.47	0.44
1:E:128:ALA:O	1:E:131:ALA:HB3	2.18	0.44
1:E:207:GLU:HA	1:E:369:ILE:CG2	2.44	0.44
1:E:217:GLU:C	1:E:219:VAL:N	2.75	0.44
1:F:261:PHE:CD1	1:F:261:PHE:N	2.81	0.44
1:F:287:GLN:O	1:F:308:ARG:HD3	2.17	0.44
1:F:470:CYS:HB3	1:F:480:VAL:HA	2.00	0.44
1:G:99:VAL:HG23	1:G:440:ILE:CB	2.47	0.44
1:G:207:GLU:CA	1:G:369:ILE:HG21	2.46	0.44
1:G:339:ASP:HB3	1:G:340:ALA:H	1.56	0.44
1:G:342:LEU:N	1:G:342:LEU:CD1	2.80	0.44
1:G:522:ARG:HH12	1:H:54:ASP:H	1.62	0.44
1:H:55:VAL:O	1:H:55:VAL:HG12	2.18	0.44
1:I:187:LYS:HD3	1:P:347:LYS:HE2	1.99	0.44
1:I:261:PHE:CD1	1:I:261:PHE:N	2.81	0.44
1:I:463:HIS:O	1:I:463:HIS:CG	2.70	0.44
1:J:261:PHE:CD1	1:J:261:PHE:N	2.81	0.44
1:J:287:GLN:O	1:J:308:ARG:HD3	2.17	0.44
1:J:290:ILE:H	1:J:290:ILE:CD1	2.30	0.44
1:J:339:ASP:HB3	1:J:340:ALA:H	1.56	0.44
1:J:342:LEU:N	1:J:342:LEU:CD1	2.80	0.44
1:J:385:ASP:CA	1:J:388:VAL:HG12	2.45	0.44
1:K:168:GLU:C	1:K:170:LEU:H	2.20	0.44
1:K:410:GLU:CG	1:K:468:ASN:HD21	2.30	0.44
1:K:519:GLU:HG3	1:K:520:LYS:HE2	1.98	0.44
1:L:49:VAL:CG1	1:M:13:LYS:HD3	2.38	0.44
1:L:55:VAL:HG23	1:M:522:ARG:CZ	2.47	0.44
1:L:99:VAL:HG23	1:L:440:ILE:CB	2.47	0.44
1:L:209:ILE:HG22	1:L:367:MET:HA	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:261:PHE:CD1	1:L:261:PHE:N	2.81	0.44
1:M:213:LEU:HB3	1:M:366:THR:HG21	1.99	0.44
1:M:291:ASP:C	1:M:295:GLN:HB2	2.43	0.44
1:N:55:VAL:HG23	1:O:522:ARG:CZ	2.47	0.44
1:N:121:VAL:HB	1:N:507:GLU:HG2	1.99	0.44
1:N:198:LYS:HD3	1:N:377:ILE:CG2	2.45	0.44
1:O:251:ARG:N	1:P:250:ILE:HG22	2.33	0.44
1:O:461:ALA:O	1:O:462:ALA:HB3	2.17	0.44
1:P:168:GLU:C	1:P:170:LEU:H	2.21	0.44
1:A:113:GLN:HG2	1:A:113:GLN:O	2.17	0.44
1:A:291:ASP:C	1:A:295:GLN:HB2	2.42	0.44
1:A:450:LEU:HD13	1:M:450:LEU:CD1	2.47	0.44
1:B:155:MET:SD	1:B:387:ALA:HB1	2.57	0.44
1:B:198:LYS:HD3	1:B:377:ILE:CG2	2.46	0.44
1:B:373:THR:O	1:B:377:ILE:HG22	2.18	0.44
1:B:404:GLY:HA3	1:B:487:GLY:HA3	1.99	0.44
1:C:187:LYS:HD3	1:D:347:LYS:HE2	1.99	0.44
1:C:230:ALA:HB3	1:C:343:VAL:HG11	2.00	0.44
1:C:242:LYS:C	1:C:244:THR:H	2.26	0.44
1:D:13:LYS:HD3	1:E:49:VAL:CG1	2.38	0.44
1:D:112:ASP:O	1:D:113:GLN:CB	2.64	0.44
1:E:209:ILE:HG22	1:E:367:MET:HA	1.99	0.44
1:E:261:PHE:CD1	1:E:261:PHE:N	2.81	0.44
1:E:285:PHE:O	1:E:286:CYS:HB2	2.18	0.44
1:E:470:CYS:HB3	1:E:480:VAL:HA	1.99	0.44
1:E:516:ILE:O	1:E:516:ILE:HD13	2.17	0.44
1:F:61:GLY:CA	1:F:94:THR:HG21	2.32	0.44
1:F:65:LEU:HD13	1:F:65:LEU:HA	1.85	0.44
1:F:213:LEU:HB3	1:F:366:THR:HG21	1.99	0.44
1:F:342:LEU:N	1:F:342:LEU:CD1	2.80	0.44
1:F:410:GLU:CG	1:F:468:ASN:HD21	2.30	0.44
1:F:516:ILE:O	1:F:516:ILE:HD13	2.17	0.44
1:G:155:MET:SD	1:G:387:ALA:HB1	2.58	0.44
1:G:165:LYS:C	1:G:167:LYS:N	2.74	0.44
1:G:250:ILE:HG23	1:H:253:THR:HA	1.99	0.44
1:G:269:LEU:HA	1:G:269:LEU:HD13	1.80	0.44
1:H:284:LEU:HD21	1:H:304:VAL:C	2.42	0.44
1:H:290:ILE:HG12	1:H:290:ILE:O	2.17	0.44
1:H:463:HIS:O	1:H:463:HIS:CG	2.70	0.44
1:I:251:ARG:HH11	1:P:258:LEU:HD13	1.80	0.44
1:I:253:THR:HA	1:J:250:ILE:HG23	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:155:MET:SD	1:J:387:ALA:HB1	2.58	0.44
1:K:11:ASN:ND2	1:K:12:MET:HG2	2.33	0.44
1:K:61:GLY:CA	1:K:94:THR:HG21	2.32	0.44
1:K:178:VAL:C	1:K:181:VAL:HG12	2.42	0.44
1:K:342:LEU:N	1:K:342:LEU:CD1	2.80	0.44
1:K:470:CYS:HB3	1:K:480:VAL:HA	2.00	0.44
1:L:55:VAL:O	1:L:55:VAL:HG12	2.18	0.44
1:L:128:ALA:O	1:L:131:ALA:HB3	2.18	0.44
1:L:285:PHE:O	1:L:286:CYS:HB2	2.18	0.44
1:L:470:CYS:HB3	1:L:480:VAL:HA	1.99	0.44
1:L:516:ILE:O	1:L:516:ILE:HD13	2.17	0.44
1:M:55:VAL:O	1:M:55:VAL:HG12	2.18	0.44
1:M:251:ARG:N	1:N:250:ILE:HG22	2.33	0.44
1:M:296:HIS:HB2	1:N:328:ASN:OD1	2.18	0.44
1:M:410:GLU:HG3	1:M:463:HIS:CG	2.53	0.44
1:N:99:VAL:HG23	1:N:440:ILE:CB	2.47	0.44
1:N:110:LEU:CD2	1:N:111:LEU:H	2.29	0.44
1:N:230:ALA:HB3	1:N:343:VAL:HG11	2.00	0.44
1:O:482:ASP:O	1:O:484:CYS:SG	2.76	0.44
1:O:519:GLU:HG3	1:O:520:LYS:HE2	1.98	0.44
1:P:291:ASP:C	1:P:295:GLN:HB2	2.43	0.44
1:P:373:THR:O	1:P:377:ILE:HG22	2.18	0.44
1:A:65:LEU:CD1	1:A:79:ILE:HG23	2.48	0.44
1:A:250:ILE:HG22	1:B:251:ARG:N	2.33	0.44
1:A:410:GLU:HG3	1:A:463:HIS:CG	2.53	0.44
1:B:113:GLN:O	1:B:113:GLN:HG2	2.17	0.44
1:B:482:ASP:O	1:B:484:CYS:SG	2.76	0.44
1:B:522:ARG:HH12	1:C:54:ASP:H	1.61	0.44
1:B:522:ARG:CZ	1:C:55:VAL:HG23	2.47	0.44
1:C:99:VAL:HG23	1:C:440:ILE:CB	2.47	0.44
1:C:110:LEU:CD2	1:C:111:LEU:H	2.29	0.44
1:C:122:LYS:HE3	1:C:122:LYS:HB3	1.87	0.44
1:C:213:LEU:O	1:C:215:ASP:N	2.39	0.44
1:C:250:ILE:HG22	1:D:251:ARG:N	2.33	0.44
1:C:522:ARG:HH12	1:D:54:ASP:H	1.61	0.44
1:D:155:MET:SD	1:D:387:ALA:HB1	2.58	0.44
1:D:217:GLU:H	1:D:354:ILE:HG21	1.83	0.44
1:D:342:LEU:N	1:D:342:LEU:CD1	2.80	0.44
1:D:410:GLU:HG3	1:D:463:HIS:CG	2.53	0.44
1:E:55:VAL:O	1:E:55:VAL:HG12	2.18	0.44
1:E:173:ILE:HG21	1:E:384:VAL:HG22	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:328:ASN:OD1	1:F:296:HIS:HB2	2.18	0.44
1:F:11:ASN:ND2	1:F:12:MET:HG2	2.33	0.44
1:F:284:LEU:HD21	1:F:304:VAL:C	2.42	0.44
1:F:482:ASP:O	1:F:484:CYS:SG	2.76	0.44
1:G:161:LYS:C	1:G:163:ALA:N	2.75	0.44
1:G:230:ALA:HB3	1:G:343:VAL:HG11	2.00	0.44
1:G:290:ILE:O	1:G:290:ILE:HG12	2.17	0.44
1:G:291:ASP:C	1:G:295:GLN:HB2	2.43	0.44
1:G:347:LYS:HD2	1:G:347:LYS:N	2.33	0.44
1:H:122:LYS:HE3	1:H:122:LYS:HB3	1.87	0.44
1:H:155:MET:SD	1:H:387:ALA:HB1	2.58	0.44
1:H:261:PHE:CD1	1:H:261:PHE:N	2.81	0.44
1:H:373:THR:O	1:H:377:ILE:HG22	2.18	0.44
1:H:509:LEU:O	1:H:509:LEU:HG	2.17	0.44
1:I:155:MET:SD	1:I:387:ALA:HB1	2.58	0.44
1:I:284:LEU:HD21	1:I:304:VAL:C	2.42	0.44
1:I:290:ILE:O	1:I:290:ILE:HG12	2.17	0.44
1:I:291:ASP:C	1:I:295:GLN:HB2	2.43	0.44
1:I:347:LYS:HE2	1:J:187:LYS:HD3	1.99	0.44
1:I:512:ILE:HG13	1:I:512:ILE:O	2.17	0.44
1:J:347:LYS:HD2	1:J:347:LYS:N	2.33	0.44
1:K:482:ASP:O	1:K:484:CYS:SG	2.76	0.44
1:K:516:ILE:O	1:K:516:ILE:HD13	2.17	0.44
1:L:230:ALA:HB3	1:L:343:VAL:HG11	2.00	0.44
1:L:515:VAL:C	1:L:517:ALA:H	2.24	0.44
1:M:112:ASP:O	1:M:113:GLN:CB	2.64	0.44
1:M:155:MET:SD	1:M:387:ALA:HB1	2.58	0.44
1:M:198:LYS:HD3	1:M:377:ILE:CG2	2.46	0.44
1:M:347:LYS:HE2	1:N:187:LYS:HD3	1.99	0.44
1:N:49:VAL:CG1	1:O:13:LYS:HD3	2.38	0.44
1:N:65:LEU:HD13	1:N:65:LEU:HA	1.85	0.44
1:N:213:LEU:O	1:N:215:ASP:N	2.39	0.44
1:N:217:GLU:H	1:N:354:ILE:HG21	1.83	0.44
1:N:242:LYS:C	1:N:244:THR:H	2.26	0.44
1:O:113:GLN:HG2	1:O:113:GLN:O	2.18	0.44
1:O:291:ASP:C	1:O:295:GLN:HB2	2.43	0.44
1:O:401:VAL:HG13	1:O:492:LEU:CD2	2.43	0.44
1:O:410:GLU:CG	1:O:468:ASN:HD21	2.30	0.44
1:P:113:GLN:O	1:P:113:GLN:HG2	2.17	0.44
1:P:290:ILE:O	1:P:290:ILE:HG12	2.17	0.44
1:A:111:LEU:HG	1:A:114:ASN:CB	2.40	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:168:GLU:C	1:B:170:LEU:H	2.20	0.44
1:B:178:VAL:C	1:B:181:VAL:HG12	2.42	0.44
1:B:242:LYS:C	1:B:244:THR:H	2.26	0.44
1:B:347:LYS:HD2	1:B:347:LYS:N	2.33	0.44
1:C:217:GLU:H	1:C:354:ILE:HG21	1.83	0.44
1:C:285:PHE:O	1:C:286:CYS:HB2	2.18	0.44
1:D:156:THR:CG2	1:D:170:LEU:HA	2.39	0.44
1:E:230:ALA:HB3	1:E:343:VAL:HG11	2.00	0.44
1:E:250:ILE:HG23	1:F:253:THR:HA	1.99	0.44
1:F:169:LYS:NZ	1:F:173:ILE:HD11	2.33	0.44
1:F:178:VAL:C	1:F:181:VAL:HG12	2.42	0.44
1:F:217:GLU:H	1:F:354:ILE:HG21	1.83	0.44
1:F:285:PHE:O	1:F:286:CYS:HB2	2.18	0.44
1:G:187:LYS:HD3	1:H:347:LYS:HE2	1.99	0.44
1:G:261:PHE:CD1	1:G:261:PHE:N	2.81	0.44
1:G:385:ASP:CA	1:G:388:VAL:HG12	2.45	0.44
1:G:470:CYS:HB3	1:G:480:VAL:HA	1.99	0.44
1:H:291:ASP:C	1:H:295:GLN:HB2	2.43	0.44
1:I:54:ASP:N	1:J:522:ARG:NH1	2.58	0.44
1:I:213:LEU:HB3	1:I:366:THR:HG21	1.99	0.44
1:I:373:THR:O	1:I:377:ILE:HG22	2.18	0.44
1:I:509:LEU:O	1:I:509:LEU:HG	2.17	0.44
1:I:515:VAL:C	1:I:517:ALA:H	2.24	0.44
1:I:522:ARG:HH12	1:P:54:ASP:H	1.61	0.44
1:J:161:LYS:C	1:J:163:ALA:N	2.75	0.44
1:J:290:ILE:O	1:J:290:ILE:HG12	2.17	0.44
1:J:291:ASP:C	1:J:295:GLN:HB2	2.43	0.44
1:K:169:LYS:NZ	1:K:173:ILE:HD11	2.33	0.44
1:K:198:LYS:HD3	1:K:377:ILE:CG2	2.46	0.44
1:K:213:LEU:HB3	1:K:366:THR:HG21	1.99	0.44
1:K:217:GLU:H	1:K:354:ILE:HG21	1.83	0.44
1:K:284:LEU:HD21	1:K:304:VAL:C	2.42	0.44
1:K:285:PHE:O	1:K:286:CYS:HB2	2.18	0.44
1:K:296:HIS:HB2	1:L:328:ASN:OD1	2.18	0.44
1:K:339:ASP:HB3	1:K:340:ALA:H	1.56	0.44
1:L:173:ILE:HG21	1:L:384:VAL:HG22	1.99	0.44
1:L:290:ILE:H	1:L:290:ILE:CD1	2.30	0.44
1:L:291:ASP:C	1:L:295:GLN:HB2	2.43	0.44
1:M:217:GLU:H	1:M:354:ILE:HG21	1.83	0.44
1:N:285:PHE:O	1:N:286:CYS:HB2	2.18	0.44
1:O:173:ILE:HG21	1:O:384:VAL:HG22	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:347:LYS:HD2	1:O:347:LYS:N	2.33	0.44
1:O:373:THR:O	1:O:377:ILE:HG22	2.18	0.44
1:P:65:LEU:CD1	1:P:79:ILE:HG23	2.47	0.44
1:P:347:LYS:HD2	1:P:347:LYS:N	2.33	0.44
1:A:347:LYS:HD2	1:A:347:LYS:N	2.33	0.44
1:A:373:THR:O	1:A:377:ILE:HG22	2.18	0.44
1:B:155:MET:HE2	1:B:158:ILE:HD11	1.98	0.44
1:B:401:VAL:HG13	1:B:492:LEU:CD2	2.44	0.44
1:B:410:GLU:CG	1:B:468:ASN:HD21	2.30	0.44
1:B:461:ALA:O	1:B:462:ALA:HB3	2.17	0.44
1:C:155:MET:SD	1:C:387:ALA:HB1	2.58	0.44
1:D:168:GLU:C	1:D:170:LEU:H	2.20	0.44
1:D:174:ILE:O	1:D:178:VAL:N	2.48	0.44
1:D:285:PHE:O	1:D:286:CYS:HB2	2.18	0.44
1:E:192:LEU:HD11	1:E:363:LYS:HZ3	1.83	0.44
1:E:291:ASP:C	1:E:295:GLN:HB2	2.43	0.44
1:E:373:THR:O	1:E:377:ILE:HG22	2.18	0.44
1:E:452:ALA:O	1:E:453:ILE:HG22	2.18	0.44
1:F:99:VAL:HG23	1:F:440:ILE:CB	2.47	0.44
1:F:113:GLN:O	1:F:113:GLN:HG2	2.18	0.44
1:F:155:MET:SD	1:F:387:ALA:HB1	2.58	0.44
1:F:290:ILE:H	1:F:290:ILE:CD1	2.30	0.44
1:F:332:LEU:HA	1:F:332:LEU:HD13	1.76	0.44
1:G:227:VAL:CG2	1:G:303:ILE:HB	2.35	0.44
1:G:452:ALA:O	1:G:453:ILE:HG22	2.18	0.44
1:H:169:LYS:NZ	1:H:173:ILE:HD11	2.33	0.44
1:H:347:LYS:HD2	1:H:347:LYS:N	2.33	0.44
1:H:374:GLU:CA	1:H:377:ILE:HG22	2.47	0.44
1:H:512:ILE:HG13	1:H:512:ILE:O	2.17	0.44
1:I:169:LYS:NZ	1:I:173:ILE:HD11	2.33	0.44
1:I:374:GLU:CA	1:I:377:ILE:HG22	2.47	0.44
1:J:173:ILE:HG21	1:J:384:VAL:HG22	1.99	0.44
1:J:230:ALA:HB3	1:J:343:VAL:HG11	2.00	0.44
1:J:452:ALA:O	1:J:453:ILE:HG22	2.18	0.44
1:K:155:MET:SD	1:K:387:ALA:HB1	2.58	0.44
1:K:332:LEU:HA	1:K:332:LEU:HD13	1.76	0.44
1:K:509:LEU:O	1:K:509:LEU:HG	2.17	0.44
1:L:44:MET:CE	1:L:58:THR:HG21	2.24	0.44
1:L:168:GLU:C	1:L:170:LEU:H	2.21	0.44
1:L:373:THR:O	1:L:377:ILE:HG22	2.18	0.44
1:L:452:ALA:O	1:L:453:ILE:HG22	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:54:ASP:H	1:N:522:ARG:HH12	1.61	0.44
1:M:113:GLN:O	1:M:113:GLN:HG2	2.18	0.44
1:M:168:GLU:C	1:M:170:LEU:H	2.20	0.44
1:M:174:ILE:O	1:M:178:VAL:N	2.48	0.44
1:M:261:PHE:CD1	1:M:261:PHE:N	2.81	0.44
1:N:116:HIS:HA	1:N:117:PRO:HD2	1.93	0.44
1:O:155:MET:SD	1:O:387:ALA:HB1	2.58	0.44
1:P:48:LEU:CD1	1:P:48:LEU:N	2.72	0.44
1:P:410:GLU:HG3	1:P:463:HIS:CG	2.53	0.44
1:A:173:ILE:HG21	1:A:384:VAL:HG22	1.99	0.43
1:A:329:ILE:HG23	1:A:330:LYS:HD3	2.00	0.43
1:A:470:CYS:HB3	1:A:480:VAL:HA	1.99	0.43
1:B:385:ASP:CA	1:B:388:VAL:HG12	2.45	0.43
1:B:395:ILE:HA	1:B:399:ARG:NH1	2.32	0.43
1:D:113:GLN:HG2	1:D:113:GLN:O	2.18	0.43
1:E:242:LYS:C	1:E:244:THR:H	2.26	0.43
1:E:290:ILE:H	1:E:290:ILE:CD1	2.30	0.43
1:F:65:LEU:CD1	1:F:79:ILE:HG23	2.47	0.43
1:F:168:GLU:C	1:F:170:LEU:H	2.20	0.43
1:G:11:ASN:ND2	1:G:12:MET:HG2	2.33	0.43
1:G:173:ILE:HG21	1:G:384:VAL:HG22	1.99	0.43
1:G:509:LEU:O	1:G:509:LEU:HG	2.18	0.43
1:H:213:LEU:HB3	1:H:366:THR:HG21	1.99	0.43
1:I:207:GLU:CA	1:I:369:ILE:HG21	2.46	0.43
1:I:452:ALA:O	1:I:453:ILE:HG22	2.18	0.43
1:J:11:ASN:ND2	1:J:12:MET:HG2	2.33	0.43
1:J:165:LYS:C	1:J:167:LYS:N	2.74	0.43
1:J:470:CYS:HB3	1:J:480:VAL:HA	1.99	0.43
1:K:290:ILE:H	1:K:290:ILE:CD1	2.30	0.43
1:L:242:LYS:C	1:L:244:THR:H	2.26	0.43
1:L:347:LYS:N	1:L:353:MET:SD	2.86	0.43
1:M:54:ASP:N	1:N:522:ARG:NH1	2.58	0.43
1:M:128:ALA:O	1:M:131:ALA:HB3	2.18	0.43
1:M:217:GLU:C	1:M:219:VAL:N	2.75	0.43
1:M:285:PHE:O	1:M:286:CYS:HB2	2.18	0.43
1:N:54:ASP:H	1:O:522:ARG:HH12	1.61	0.43
1:O:49:VAL:O	1:P:519:GLU:HG2	2.18	0.43
1:O:242:LYS:C	1:O:244:THR:H	2.25	0.43
1:O:296:HIS:HB2	1:P:328:ASN:OD1	2.18	0.43
1:P:8:LEU:N	1:P:9:PRO:CD	2.81	0.43
1:P:111:LEU:HG	1:P:114:ASN:CB	2.40	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:173:ILE:HG21	1:P:384:VAL:HG22	1.99	0.43
1:P:470:CYS:HB3	1:P:480:VAL:HA	1.99	0.43
1:A:433:PHE:HE2	1:A:437:LEU:HG	1.82	0.43
1:A:480:VAL:CG1	1:A:481:GLU:H	2.17	0.43
1:A:482:ASP:O	1:A:484:CYS:SG	2.76	0.43
1:B:287:GLN:O	1:B:308:ARG:HD3	2.17	0.43
1:B:410:GLU:HG3	1:B:463:HIS:CG	2.53	0.43
1:C:8:LEU:N	1:C:9:PRO:CD	2.81	0.43
1:C:65:LEU:HD13	1:C:65:LEU:HA	1.85	0.43
1:C:410:GLU:HG3	1:C:463:HIS:CG	2.53	0.43
1:C:522:ARG:NH1	1:D:54:ASP:N	2.58	0.43
1:D:128:ALA:O	1:D:131:ALA:HB3	2.18	0.43
1:D:169:LYS:NZ	1:D:173:ILE:HD11	2.33	0.43
1:E:11:ASN:ND2	1:E:12:MET:HG2	2.33	0.43
1:E:57:VAL:CG1	1:E:63:THR:HG21	2.36	0.43
1:E:103:LEU:O	1:E:105:ARG:N	2.52	0.43
1:E:165:LYS:C	1:E:167:LYS:N	2.74	0.43
1:E:347:LYS:HD2	1:E:347:LYS:N	2.33	0.43
1:E:515:VAL:C	1:E:517:ALA:H	2.24	0.43
1:F:226:LYS:HB3	1:F:227:VAL:H	1.65	0.43
1:F:290:ILE:O	1:F:290:ILE:HG12	2.17	0.43
1:F:347:LYS:N	1:F:353:MET:SD	2.86	0.43
1:F:509:LEU:O	1:F:509:LEU:HG	2.17	0.43
1:G:168:GLU:C	1:G:170:LEU:H	2.21	0.43
1:H:128:ALA:O	1:H:131:ALA:HB3	2.18	0.43
1:H:173:ILE:HG21	1:H:384:VAL:HG22	1.99	0.43
1:H:410:GLU:HG3	1:H:463:HIS:CG	2.53	0.43
1:H:452:ALA:O	1:H:453:ILE:HG22	2.18	0.43
1:I:347:LYS:HD2	1:I:347:LYS:N	2.33	0.43
1:J:168:GLU:C	1:J:170:LEU:H	2.21	0.43
1:J:227:VAL:CG2	1:J:303:ILE:HB	2.35	0.43
1:K:65:LEU:CD1	1:K:79:ILE:HG23	2.47	0.43
1:K:99:VAL:HG23	1:K:440:ILE:CB	2.47	0.43
1:K:110:LEU:CD2	1:K:111:LEU:H	2.29	0.43
1:K:113:GLN:O	1:K:113:GLN:HG2	2.18	0.43
1:K:253:THR:HA	1:L:250:ILE:HG23	1.99	0.43
1:L:11:ASN:ND2	1:L:12:MET:HG2	2.33	0.43
1:L:165:LYS:C	1:L:167:LYS:N	2.74	0.43
1:L:347:LYS:HD2	1:L:347:LYS:N	2.33	0.43
1:M:169:LYS:NZ	1:M:173:ILE:HD11	2.33	0.43
1:M:452:ALA:O	1:M:453:ILE:HG22	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:290:ILE:O	1:N:290:ILE:HG12	2.17	0.43
1:N:410:GLU:HG3	1:N:463:HIS:CG	2.53	0.43
1:A:152:LYS:HD3	1:A:174:ILE:HD12	2.00	0.43
1:A:207:GLU:CA	1:A:369:ILE:HG21	2.46	0.43
1:A:230:ALA:HB3	1:A:343:VAL:HG11	1.99	0.43
1:A:347:LYS:HD2	1:A:347:LYS:H	1.84	0.43
1:A:519:GLU:HG2	1:B:49:VAL:O	2.19	0.43
1:A:522:ARG:NH1	1:B:54:ASP:N	2.58	0.43
1:B:103:LEU:O	1:B:105:ARG:N	2.52	0.43
1:C:450:LEU:CD1	1:O:450:LEU:HD13	2.47	0.43
1:C:482:ASP:O	1:C:484:CYS:SG	2.76	0.43
1:D:19:ASP:O	1:D:22:ARG:HD2	2.19	0.43
1:D:261:PHE:CD1	1:D:261:PHE:N	2.81	0.43
1:D:373:THR:O	1:D:377:ILE:HG22	2.18	0.43
1:D:452:ALA:O	1:D:453:ILE:HG22	2.18	0.43
1:E:65:LEU:CD1	1:E:79:ILE:HG23	2.47	0.43
1:E:347:LYS:N	1:E:353:MET:SD	2.86	0.43
1:F:55:VAL:O	1:F:55:VAL:HG12	2.18	0.43
1:F:103:LEU:O	1:F:105:ARG:N	2.52	0.43
1:F:173:ILE:HG21	1:F:384:VAL:HG22	1.99	0.43
1:G:455:ILE:O	1:G:459:VAL:HG13	2.17	0.43
1:G:482:ASP:O	1:G:484:CYS:SG	2.76	0.43
1:G:522:ARG:NH1	1:H:54:ASP:N	2.58	0.43
1:H:207:GLU:CA	1:H:369:ILE:HG21	2.46	0.43
1:H:230:ALA:HB3	1:H:343:VAL:HG11	1.99	0.43
1:H:372:THR:HG22	1:H:373:THR:N	2.34	0.43
1:I:11:ASN:ND2	1:I:12:MET:HG2	2.33	0.43
1:I:122:LYS:HE3	1:I:122:LYS:HB3	1.87	0.43
1:I:152:LYS:HD3	1:I:174:ILE:HD12	2.00	0.43
1:I:173:ILE:HG21	1:I:384:VAL:HG22	1.99	0.43
1:I:197:LYS:HD3	1:I:197:LYS:HA	1.90	0.43
1:I:372:THR:HG22	1:I:373:THR:N	2.34	0.43
1:I:410:GLU:HG3	1:I:463:HIS:CG	2.53	0.43
1:J:455:ILE:O	1:J:459:VAL:HG13	2.17	0.43
1:K:55:VAL:O	1:K:55:VAL:HG12	2.18	0.43
1:K:57:VAL:CG1	1:K:63:THR:HG21	2.36	0.43
1:K:103:LEU:O	1:K:105:ARG:N	2.52	0.43
1:K:173:ILE:HG21	1:K:384:VAL:HG22	1.99	0.43
1:K:347:LYS:N	1:K:353:MET:SD	2.86	0.43
1:L:57:VAL:CG1	1:L:63:THR:HG21	2.36	0.43
1:L:65:LEU:CD1	1:L:79:ILE:HG23	2.47	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:103:LEU:O	1:L:105:ARG:N	2.52	0.43
1:M:19:ASP:O	1:M:22:ARG:HD2	2.19	0.43
1:M:156:THR:CG2	1:M:170:LEU:HA	2.39	0.43
1:M:516:ILE:HD13	1:M:516:ILE:O	2.17	0.43
1:N:8:LEU:N	1:N:9:PRO:CD	2.81	0.43
1:N:192:LEU:HD11	1:N:363:LYS:HZ3	1.83	0.43
1:O:103:LEU:O	1:O:105:ARG:N	2.52	0.43
1:O:169:LYS:NZ	1:O:173:ILE:HD11	2.33	0.43
1:O:196:GLU:HB3	1:O:197:LYS:H	1.64	0.43
1:O:410:GLU:HG3	1:O:463:HIS:CG	2.53	0.43
1:P:152:LYS:HD3	1:P:174:ILE:HD12	2.00	0.43
1:P:207:GLU:CA	1:P:369:ILE:HG21	2.46	0.43
1:P:230:ALA:HB3	1:P:343:VAL:HG11	2.00	0.43
1:P:329:ILE:HG23	1:P:330:LYS:HD3	2.00	0.43
1:P:482:ASP:O	1:P:484:CYS:SG	2.76	0.43
1:A:48:LEU:CD1	1:A:48:LEU:N	2.72	0.43
1:A:372:THR:HG22	1:A:373:THR:N	2.34	0.43
1:B:57:VAL:HG21	1:B:63:THR:HG21	2.00	0.43
1:B:169:LYS:NZ	1:B:173:ILE:HD11	2.33	0.43
1:C:168:GLU:C	1:C:170:LEU:H	2.21	0.43
1:C:290:ILE:O	1:C:290:ILE:HG12	2.17	0.43
1:D:482:ASP:O	1:D:484:CYS:SG	2.76	0.43
1:D:516:ILE:O	1:D:516:ILE:HD13	2.17	0.43
1:E:19:ASP:O	1:E:22:ARG:HD2	2.19	0.43
1:E:187:LYS:HD3	1:F:347:LYS:HE2	1.99	0.43
1:E:203:ILE:HG21	1:E:372:THR:HG23	2.01	0.43
1:E:519:GLU:HG2	1:F:49:VAL:O	2.18	0.43
1:F:57:VAL:CG1	1:F:63:THR:HG21	2.36	0.43
1:F:110:LEU:CD2	1:F:111:LEU:H	2.29	0.43
1:F:339:ASP:HB3	1:F:340:ALA:H	1.56	0.43
1:F:452:ALA:O	1:F:453:ILE:HG22	2.18	0.43
1:G:516:ILE:O	1:G:516:ILE:HD13	2.17	0.43
1:H:152:LYS:HD3	1:H:174:ILE:HD12	2.00	0.43
1:H:347:LYS:HD2	1:H:347:LYS:H	1.84	0.43
1:H:482:ASP:O	1:H:484:CYS:SG	2.76	0.43
1:I:128:ALA:O	1:I:131:ALA:HB3	2.18	0.43
1:I:329:ILE:HG23	1:I:330:LYS:HD3	2.00	0.43
1:I:482:ASP:O	1:I:484:CYS:SG	2.76	0.43
1:J:269:LEU:HA	1:J:269:LEU:HD13	1.80	0.43
1:J:332:LEU:HA	1:J:332:LEU:HD13	1.76	0.43
1:J:347:LYS:HE2	1:K:187:LYS:HD3	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:410:GLU:HG3	1:J:463:HIS:CG	2.53	0.43
1:J:482:ASP:O	1:J:484:CYS:SG	2.76	0.43
1:K:49:VAL:O	1:L:519:GLU:HG2	2.18	0.43
1:K:290:ILE:O	1:K:290:ILE:HG12	2.17	0.43
1:K:373:THR:O	1:K:377:ILE:HG22	2.18	0.43
1:L:19:ASP:O	1:L:22:ARG:HD2	2.19	0.43
1:L:65:LEU:HD13	1:L:65:LEU:HA	1.85	0.43
1:L:203:ILE:HG21	1:L:372:THR:HG23	2.01	0.43
1:L:296:HIS:HB2	1:M:328:ASN:OD1	2.18	0.43
1:M:373:THR:O	1:M:377:ILE:HG22	2.18	0.43
1:M:482:ASP:O	1:M:484:CYS:SG	2.76	0.43
1:N:122:LYS:HE3	1:N:122:LYS:HB3	1.87	0.43
1:N:168:GLU:C	1:N:170:LEU:H	2.21	0.43
1:N:233:ALA:HB3	1:N:283:VAL:H	1.84	0.43
1:N:482:ASP:O	1:N:484:CYS:SG	2.76	0.43
1:O:57:VAL:HG21	1:O:63:THR:HG21	2.00	0.43
1:O:152:LYS:HD3	1:O:174:ILE:HD12	2.00	0.43
1:O:217:GLU:H	1:O:354:ILE:HG21	1.83	0.43
1:O:287:GLN:O	1:O:308:ARG:HD3	2.17	0.43
1:O:329:ILE:HG23	1:O:330:LYS:HD3	2.00	0.43
1:P:233:ALA:HB3	1:P:283:VAL:H	1.84	0.43
1:A:296:HIS:HB2	1:H:328:ASN:OD1	2.18	0.43
1:A:452:ALA:O	1:A:453:ILE:HG22	2.18	0.43
1:B:165:LYS:O	1:B:167:LYS:N	2.49	0.43
1:B:450:LEU:HD13	1:N:450:LEU:CD1	2.47	0.43
1:B:470:CYS:HB3	1:B:480:VAL:HA	1.99	0.43
1:C:233:ALA:HB3	1:C:283:VAL:H	1.84	0.43
1:D:103:LEU:O	1:D:105:ARG:N	2.52	0.43
1:D:144:ALA:HB2	1:D:400:ILE:CG1	2.22	0.43
1:D:160:GLY:O	1:D:162:GLY:N	2.49	0.43
1:D:187:LYS:HD3	1:E:347:LYS:HE2	1.99	0.43
1:D:328:ASN:OD1	1:E:296:HIS:HB2	2.18	0.43
1:E:44:MET:CE	1:E:58:THR:HG21	2.24	0.43
1:E:168:GLU:C	1:E:170:LEU:H	2.21	0.43
1:F:187:LYS:HD3	1:G:347:LYS:HE2	1.99	0.43
1:G:152:LYS:HD3	1:G:174:ILE:HD12	2.00	0.43
1:G:233:ALA:HB3	1:G:283:VAL:H	1.84	0.43
1:G:372:THR:HG22	1:G:373:THR:N	2.34	0.43
1:G:410:GLU:HG3	1:G:463:HIS:CG	2.53	0.43
1:H:11:ASN:ND2	1:H:12:MET:HG2	2.33	0.43
1:H:113:GLN:O	1:H:113:GLN:HG2	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:329:ILE:HG23	1:H:330:LYS:HD3	2.00	0.43
1:H:515:VAL:C	1:H:517:ALA:H	2.25	0.43
1:I:230:ALA:HB3	1:I:343:VAL:HG11	1.99	0.43
1:I:347:LYS:HD2	1:I:347:LYS:H	1.84	0.43
1:J:152:LYS:HD3	1:J:174:ILE:HD12	2.00	0.43
1:J:233:ALA:HB3	1:J:283:VAL:H	1.84	0.43
1:J:296:HIS:HB2	1:K:328:ASN:OD1	2.18	0.43
1:J:372:THR:HG22	1:J:373:THR:N	2.34	0.43
1:K:192:LEU:HD11	1:K:363:LYS:HZ3	1.83	0.43
1:K:203:ILE:HG21	1:K:372:THR:HG23	2.01	0.43
1:K:242:LYS:C	1:K:244:THR:H	2.25	0.43
1:K:347:LYS:HE2	1:L:187:LYS:HD3	1.99	0.43
1:K:452:ALA:O	1:K:453:ILE:HG22	2.18	0.43
1:M:160:GLY:O	1:M:162:GLY:N	2.49	0.43
1:N:347:LYS:HD2	1:N:347:LYS:N	2.33	0.43
1:O:128:ALA:O	1:O:131:ALA:HB3	2.18	0.43
1:P:347:LYS:HD2	1:P:347:LYS:H	1.84	0.43
1:P:372:THR:HG22	1:P:373:THR:N	2.34	0.43
1:A:328:ASN:OD1	1:B:296:HIS:HB2	2.18	0.43
1:B:128:ALA:O	1:B:131:ALA:HB3	2.18	0.43
1:B:152:LYS:HD3	1:B:174:ILE:HD12	2.01	0.43
1:B:165:LYS:C	1:B:167:LYS:N	2.74	0.43
1:B:329:ILE:HG23	1:B:330:LYS:HD3	2.01	0.43
1:B:519:GLU:HG2	1:C:49:VAL:O	2.18	0.43
1:C:57:VAL:HG21	1:C:63:THR:HG21	2.01	0.43
1:C:234:LEU:HD22	1:C:322:GLY:CA	2.46	0.43
1:C:250:ILE:HG23	1:D:253:THR:HA	1.99	0.43
1:C:347:LYS:HD2	1:C:347:LYS:N	2.33	0.43
1:D:11:ASN:ND2	1:D:12:MET:HG2	2.33	0.43
1:D:203:ILE:HG21	1:D:372:THR:HG23	2.01	0.43
1:E:171:ALA:HA	1:E:174:ILE:HB	2.00	0.43
1:F:44:MET:O	1:F:46:LYS:HD3	2.19	0.43
1:F:147:LYS:H	1:F:147:LYS:CD	2.32	0.43
1:F:161:LYS:C	1:F:163:ALA:N	2.75	0.43
1:F:203:ILE:HG21	1:F:372:THR:HG23	2.01	0.43
1:F:242:LYS:C	1:F:244:THR:H	2.25	0.43
1:F:328:ASN:OD1	1:G:296:HIS:HB2	2.18	0.43
1:F:347:LYS:HD2	1:F:347:LYS:H	1.84	0.43
1:F:373:THR:O	1:F:377:ILE:HG22	2.18	0.43
1:G:192:LEU:HD13	1:G:363:LYS:HZ1	1.82	0.43
1:G:217:GLU:H	1:G:354:ILE:HG21	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:251:ARG:HH11	1:H:258:LEU:HD13	1.83	0.43
1:G:328:ASN:OD1	1:H:296:HIS:HB2	2.18	0.43
1:H:197:LYS:HD3	1:H:197:LYS:HA	1.90	0.43
1:I:113:GLN:HG2	1:I:113:GLN:O	2.18	0.43
1:I:131:ALA:CA	1:I:134:LEU:HD13	2.45	0.43
1:I:160:GLY:O	1:I:162:GLY:N	2.49	0.43
1:I:242:LYS:C	1:I:244:THR:H	2.25	0.43
1:J:131:ALA:CA	1:J:134:LEU:HD13	2.45	0.43
1:J:373:THR:O	1:J:377:ILE:HG22	2.18	0.43
1:J:516:ILE:HD13	1:J:516:ILE:O	2.17	0.43
1:K:44:MET:O	1:K:46:LYS:HD3	2.19	0.43
1:K:147:LYS:H	1:K:147:LYS:CD	2.32	0.43
1:K:347:LYS:HD2	1:K:347:LYS:H	1.84	0.43
1:L:347:LYS:HE2	1:M:187:LYS:HD3	1.99	0.43
1:M:11:ASN:ND2	1:M:12:MET:HG2	2.33	0.43
1:M:103:LEU:O	1:M:105:ARG:N	2.52	0.43
1:M:144:ALA:HB2	1:M:400:ILE:CG1	2.22	0.43
1:M:203:ILE:HG21	1:M:372:THR:HG23	2.01	0.43
1:N:49:VAL:O	1:O:519:GLU:HG2	2.18	0.43
1:O:55:VAL:O	1:O:55:VAL:HG12	2.18	0.43
1:O:403:GLY:HA3	1:O:489:VAL:O	2.19	0.43
1:O:470:CYS:HB3	1:O:480:VAL:HA	2.00	0.43
1:P:46:LYS:HZ1	1:P:58:THR:HA	1.83	0.43
1:P:128:ALA:O	1:P:131:ALA:HB3	2.18	0.43
1:P:155:MET:SD	1:P:387:ALA:HB1	2.58	0.43
1:P:452:ALA:O	1:P:453:ILE:HG22	2.18	0.43
1:A:156:THR:CG2	1:A:170:LEU:HA	2.39	0.43
1:A:242:LYS:C	1:A:244:THR:H	2.26	0.43
1:A:250:ILE:HG23	1:B:253:THR:HA	1.99	0.43
1:A:520:LYS:H	1:A:520:LYS:HD3	1.76	0.43
1:B:55:VAL:O	1:B:55:VAL:HG12	2.18	0.43
1:B:192:LEU:CD2	1:B:363:LYS:HD3	2.49	0.43
1:B:213:LEU:HB3	1:B:366:THR:HG21	1.99	0.43
1:B:217:GLU:H	1:B:354:ILE:HG21	1.83	0.43
1:B:246:THR:C	1:B:248:ALA:N	2.62	0.43
1:B:347:LYS:HD2	1:B:347:LYS:H	1.84	0.43
1:C:197:LYS:HD3	1:C:197:LYS:HA	1.90	0.43
1:C:470:CYS:HB3	1:C:480:VAL:HA	1.99	0.43
1:D:57:VAL:HG21	1:D:63:THR:HG21	2.00	0.43
1:D:192:LEU:CD2	1:D:363:LYS:HD3	2.49	0.43
1:D:234:LEU:HD22	1:D:322:GLY:CA	2.46	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:65:LEU:HD13	1:E:65:LEU:HA	1.85	0.43
1:E:154:ALA:CB	1:E:488:VAL:HG13	2.49	0.43
1:E:169:LYS:NZ	1:E:173:ILE:HD11	2.33	0.43
1:E:241:ILE:O	1:E:241:ILE:HG13	2.19	0.43
1:E:482:ASP:O	1:E:484:CYS:SG	2.76	0.43
1:F:347:LYS:HD2	1:F:347:LYS:N	2.33	0.43
1:F:520:LYS:CD	1:G:68:MET:H	2.32	0.43
1:G:171:ALA:HA	1:G:174:ILE:HB	2.00	0.43
1:G:192:LEU:HD11	1:G:363:LYS:HZ3	1.84	0.43
1:G:347:LYS:HD2	1:G:347:LYS:H	1.84	0.43
1:H:103:LEU:O	1:H:105:ARG:N	2.52	0.43
1:H:160:GLY:O	1:H:162:GLY:N	2.49	0.43
1:H:192:LEU:CD2	1:H:363:LYS:HD3	2.49	0.43
1:H:233:ALA:HB3	1:H:283:VAL:H	1.84	0.43
1:H:332:LEU:HA	1:H:332:LEU:HD13	1.76	0.43
1:H:428:LEU:O	1:H:431:ARG:N	2.52	0.43
1:I:103:LEU:O	1:I:105:ARG:N	2.52	0.43
1:I:192:LEU:CD2	1:I:363:LYS:HD3	2.49	0.43
1:I:233:ALA:HB3	1:I:283:VAL:H	1.84	0.43
1:I:332:LEU:HA	1:I:332:LEU:HD13	1.76	0.43
1:I:428:LEU:O	1:I:431:ARG:N	2.52	0.43
1:J:217:GLU:H	1:J:354:ILE:HG21	1.83	0.43
1:J:347:LYS:HD2	1:J:347:LYS:H	1.84	0.43
1:J:450:LEU:HD12	1:J:450:LEU:HA	1.76	0.43
1:K:226:LYS:HB3	1:K:227:VAL:H	1.65	0.43
1:L:154:ALA:CB	1:L:488:VAL:HG13	2.49	0.43
1:L:171:ALA:HA	1:L:174:ILE:HB	2.00	0.43
1:L:241:ILE:O	1:L:241:ILE:HG13	2.19	0.43
1:L:482:ASP:O	1:L:484:CYS:SG	2.76	0.43
1:M:57:VAL:HG21	1:M:63:THR:HG21	2.00	0.43
1:M:192:LEU:CD2	1:M:363:LYS:HD3	2.49	0.43
1:M:253:THR:HA	1:N:250:ILE:HG23	1.99	0.43
1:M:342:LEU:N	1:M:342:LEU:CD1	2.80	0.43
1:M:425:ARG:CG	1:M:426:GLU:N	2.73	0.43
1:N:197:LYS:HD3	1:N:197:LYS:HA	1.90	0.43
1:N:234:LEU:HD22	1:N:322:GLY:CA	2.46	0.43
1:O:6:GLY:O	1:O:7:VAL:HG13	2.19	0.43
1:O:165:LYS:C	1:O:167:LYS:N	2.74	0.43
1:O:213:LEU:HB3	1:O:366:THR:HG21	1.99	0.43
1:O:253:THR:HA	1:P:250:ILE:HG23	1.99	0.43
1:O:372:THR:HG22	1:O:373:THR:N	2.34	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:20:ALA:HB1	1:P:516:ILE:HB	1.98	0.43
1:P:192:LEU:CD2	1:P:363:LYS:HD3	2.49	0.43
1:P:217:GLU:H	1:P:354:ILE:HG21	1.83	0.43
1:P:285:PHE:O	1:P:286:CYS:HB2	2.18	0.43
1:A:20:ALA:HB1	1:A:516:ILE:HB	1.98	0.43
1:A:128:ALA:O	1:A:131:ALA:HB3	2.18	0.43
1:A:192:LEU:HB2	1:A:365:VAL:O	2.18	0.43
1:A:192:LEU:CD2	1:A:363:LYS:HD3	2.49	0.43
1:A:233:ALA:HB3	1:A:283:VAL:H	1.84	0.43
1:B:6:GLY:O	1:B:7:VAL:HG13	2.19	0.43
1:B:135:LEU:HD11	1:B:493:ARG:NE	2.34	0.43
1:B:372:THR:HG22	1:B:373:THR:N	2.34	0.43
1:B:395:ILE:HD12	1:B:396:GLU:N	2.34	0.43
1:C:500:GLN:HA	1:C:500:GLN:HE21	1.84	0.43
1:C:515:VAL:C	1:C:517:ALA:H	2.24	0.43
1:E:8:LEU:N	1:E:9:PRO:CD	2.81	0.43
1:E:155:MET:SD	1:E:387:ALA:HB1	2.58	0.43
1:E:192:LEU:HD13	1:E:363:LYS:HZ1	1.84	0.43
1:E:217:GLU:H	1:E:354:ILE:HG21	1.83	0.43
1:E:401:VAL:HG13	1:E:492:LEU:CD2	2.43	0.43
1:G:8:LEU:N	1:G:9:PRO:CD	2.81	0.43
1:G:57:VAL:CG1	1:G:63:THR:HG21	2.36	0.43
1:G:156:THR:CG2	1:G:170:LEU:HA	2.39	0.43
1:G:203:ILE:HG21	1:G:372:THR:HG23	2.01	0.43
1:G:298:LEU:HD12	1:G:298:LEU:HA	1.87	0.43
1:G:373:THR:O	1:G:377:ILE:HG22	2.18	0.43
1:H:130:LYS:HD3	1:H:130:LYS:HA	1.88	0.43
1:H:131:ALA:CA	1:H:134:LEU:HD13	2.45	0.43
1:I:296:HIS:HB2	1:J:328:ASN:OD1	2.18	0.43
1:I:470:CYS:HB3	1:I:480:VAL:HA	2.00	0.43
1:I:512:ILE:HD11	1:P:47:MET:CB	2.48	0.43
1:J:49:VAL:O	1:K:519:GLU:HG2	2.18	0.43
1:J:68:MET:H	1:K:520:LYS:CD	2.32	0.43
1:J:171:ALA:HA	1:J:174:ILE:HB	2.00	0.43
1:J:203:ILE:HG21	1:J:372:THR:HG23	2.01	0.43
1:K:347:LYS:HD2	1:K:347:LYS:N	2.33	0.43
1:L:155:MET:SD	1:L:387:ALA:HB1	2.58	0.43
1:L:190:LYS:HA	1:L:193:ILE:CD1	2.47	0.43
1:L:410:GLU:HG3	1:L:463:HIS:CG	2.53	0.43
1:M:147:LYS:H	1:M:147:LYS:CD	2.32	0.43
1:M:231:LYS:HD2	1:M:231:LYS:HA	1.89	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:234:LEU:HD22	1:M:322:GLY:CA	2.46	0.43
1:M:284:LEU:HD11	1:M:304:VAL:O	2.19	0.43
1:N:57:VAL:HG21	1:N:63:THR:HG21	2.01	0.43
1:N:470:CYS:HB3	1:N:480:VAL:HA	1.99	0.43
1:N:500:GLN:HA	1:N:500:GLN:HE21	1.84	0.43
1:N:515:VAL:C	1:N:517:ALA:H	2.24	0.43
1:O:165:LYS:O	1:O:167:LYS:N	2.49	0.43
1:O:192:LEU:CD2	1:O:363:LYS:HD3	2.49	0.43
1:O:207:GLU:CA	1:O:369:ILE:HG21	2.46	0.43
1:O:347:LYS:HD2	1:O:347:LYS:H	1.84	0.43
1:P:509:LEU:O	1:P:509:LEU:HG	2.18	0.43
1:A:47:MET:CB	1:H:512:ILE:HD11	2.48	0.43
1:A:509:LEU:O	1:A:509:LEU:HG	2.18	0.43
1:A:512:ILE:HD11	1:B:47:MET:CB	2.47	0.43
1:B:19:ASP:O	1:B:22:ARG:HD2	2.19	0.43
1:C:19:ASP:O	1:C:22:ARG:HD2	2.19	0.43
1:D:147:LYS:H	1:D:147:LYS:CD	2.32	0.43
1:D:154:ALA:CB	1:D:488:VAL:HG13	2.49	0.43
1:D:216:LYS:HZ2	1:D:352:SER:HB2	1.84	0.43
1:D:284:LEU:HD11	1:D:304:VAL:O	2.19	0.43
1:D:347:LYS:HD2	1:D:347:LYS:H	1.84	0.43
1:E:190:LYS:HA	1:E:193:ILE:CD1	2.47	0.43
1:E:410:GLU:CB	1:E:463:HIS:CD2	3.02	0.43
1:F:519:GLU:HG2	1:G:49:VAL:O	2.18	0.43
1:G:116:HIS:HA	1:G:117:PRO:HD2	1.93	0.43
1:G:519:GLU:HG2	1:H:49:VAL:O	2.18	0.43
1:G:520:LYS:CD	1:H:68:MET:H	2.32	0.43
1:H:404:GLY:CA	1:H:487:GLY:HA3	2.49	0.43
1:H:470:CYS:HB3	1:H:480:VAL:HA	2.00	0.43
1:I:130:LYS:HD3	1:I:130:LYS:HA	1.88	0.43
1:I:284:LEU:HD11	1:I:304:VAL:O	2.19	0.43
1:I:404:GLY:CA	1:I:487:GLY:HA3	2.49	0.43
1:J:8:LEU:N	1:J:9:PRO:CD	2.81	0.43
1:J:44:MET:CE	1:J:58:THR:HG21	2.24	0.43
1:J:57:VAL:CG1	1:J:63:THR:HG21	2.36	0.43
1:J:169:LYS:NZ	1:J:173:ILE:HD11	2.33	0.43
1:J:208:LEU:CG	1:J:210:LYS:H	2.26	0.43
1:J:329:ILE:HG23	1:J:330:LYS:HD3	2.00	0.43
1:K:251:ARG:N	1:L:250:ILE:HG22	2.33	0.43
1:L:8:LEU:N	1:L:9:PRO:CD	2.81	0.43
1:L:169:LYS:NZ	1:L:173:ILE:HD11	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:401:VAL:HG13	1:L:492:LEU:CD2	2.43	0.43
1:L:410:GLU:CB	1:L:463:HIS:CD2	3.02	0.43
1:M:48:LEU:CD1	1:M:48:LEU:N	2.72	0.43
1:M:154:ALA:CB	1:M:488:VAL:HG13	2.49	0.43
1:N:19:ASP:O	1:N:22:ARG:HD2	2.19	0.43
1:N:296:HIS:HB2	1:O:328:ASN:OD1	2.18	0.43
1:O:19:ASP:O	1:O:22:ARG:HD2	2.19	0.43
1:P:242:LYS:C	1:P:244:THR:H	2.26	0.43
1:A:285:PHE:O	1:A:286:CYS:HB2	2.18	0.43
1:A:404:GLY:CA	1:A:487:GLY:HA3	2.49	0.43
1:B:39:LEU:HD13	1:B:59:ASN:HA	2.01	0.43
1:B:328:ASN:OD1	1:C:296:HIS:HB2	2.18	0.43
1:B:442:ARG:NH2	1:B:456:LEU:HA	2.34	0.43
1:C:44:MET:O	1:C:46:LYS:HD3	2.19	0.43
1:C:103:LEU:O	1:C:105:ARG:N	2.52	0.43
1:C:135:LEU:HD11	1:C:493:ARG:NE	2.34	0.43
1:C:329:ILE:HG23	1:C:330:LYS:HD3	2.00	0.43
1:D:44:MET:O	1:D:46:LYS:HD3	2.19	0.43
1:D:347:LYS:HD2	1:D:347:LYS:N	2.33	0.43
1:D:404:GLY:CA	1:D:487:GLY:HA3	2.49	0.43
1:D:425:ARG:CG	1:D:426:GLU:N	2.73	0.43
1:D:519:GLU:HG2	1:E:49:VAL:O	2.18	0.43
1:E:110:LEU:CD2	1:E:111:LEU:H	2.29	0.43
1:E:135:LEU:HD11	1:E:493:ARG:NE	2.34	0.43
1:E:137:THR:CG2	1:E:400:ILE:HG12	2.49	0.43
1:E:284:LEU:HD11	1:E:304:VAL:O	2.19	0.43
1:E:410:GLU:HG3	1:E:463:HIS:CG	2.53	0.43
1:F:144:ALA:HB2	1:F:400:ILE:CG1	2.22	0.43
1:F:154:ALA:CB	1:F:488:VAL:HG13	2.49	0.43
1:F:204:ASP:HB3	1:F:205:ASP:H	1.73	0.43
1:G:103:LEU:O	1:G:105:ARG:N	2.52	0.43
1:G:169:LYS:NZ	1:G:173:ILE:HD11	2.33	0.43
1:G:329:ILE:HG23	1:G:330:LYS:HD3	2.00	0.43
1:G:332:LEU:HD13	1:G:332:LEU:HA	1.76	0.43
1:H:6:GLY:O	1:H:7:VAL:HG13	2.19	0.43
1:H:65:LEU:CD1	1:H:79:ILE:HG23	2.47	0.43
1:H:217:GLU:C	1:H:219:VAL:N	2.75	0.43
1:H:217:GLU:H	1:H:354:ILE:HG21	1.83	0.43
1:H:242:LYS:C	1:H:244:THR:H	2.25	0.43
1:H:284:LEU:HD11	1:H:304:VAL:O	2.19	0.43
1:I:6:GLY:O	1:I:7:VAL:HG13	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:49:VAL:O	1:J:519:GLU:HG2	2.18	0.43
1:I:68:MET:H	1:J:520:LYS:CD	2.32	0.43
1:I:217:GLU:C	1:I:219:VAL:N	2.75	0.43
1:I:217:GLU:H	1:I:354:ILE:HG21	1.83	0.43
1:I:251:ARG:N	1:J:250:ILE:HG22	2.33	0.43
1:I:328:ASN:OD1	1:P:296:HIS:HB2	2.18	0.43
1:J:103:LEU:O	1:J:105:ARG:N	2.52	0.43
1:J:213:LEU:O	1:J:215:ASP:N	2.39	0.43
1:K:29:ARG:HH21	1:K:105:ARG:CG	2.23	0.43
1:K:154:ALA:CB	1:K:488:VAL:HG13	2.49	0.43
1:K:372:THR:HG22	1:K:373:THR:N	2.34	0.43
1:L:6:GLY:O	1:L:7:VAL:HG13	2.19	0.43
1:L:135:LEU:HD11	1:L:493:ARG:NE	2.34	0.43
1:L:137:THR:CG2	1:L:400:ILE:HG12	2.49	0.43
1:L:217:GLU:H	1:L:354:ILE:HG21	1.83	0.43
1:L:233:ALA:HB3	1:L:283:VAL:H	1.84	0.43
1:L:284:LEU:HD11	1:L:304:VAL:O	2.19	0.43
1:M:347:LYS:HD2	1:M:347:LYS:H	1.84	0.43
1:M:404:GLY:CA	1:M:487:GLY:HA3	2.49	0.43
1:N:44:MET:O	1:N:46:LYS:HD3	2.19	0.43
1:N:284:LEU:HD11	1:N:304:VAL:O	2.19	0.43
1:N:329:ILE:HG23	1:N:330:LYS:HD3	2.00	0.43
1:N:452:ALA:O	1:N:453:ILE:HG22	2.18	0.43
1:O:404:GLY:CA	1:O:487:GLY:HA3	2.49	0.43
1:P:165:LYS:O	1:P:167:LYS:N	2.49	0.43
1:P:480:VAL:CG1	1:P:481:GLU:H	2.17	0.43
1:A:57:VAL:HG21	1:A:63:THR:HG21	2.01	0.42
1:A:203:ILE:HG21	1:A:372:THR:HG23	2.00	0.42
1:A:217:GLU:H	1:A:354:ILE:HG21	1.83	0.42
1:A:403:GLY:HA3	1:A:489:VAL:O	2.19	0.42
1:B:207:GLU:CA	1:B:369:ILE:HG21	2.46	0.42
1:B:208:LEU:HD23	1:B:209:ILE:N	2.34	0.42
1:B:440:ILE:C	1:B:442:ARG:N	2.74	0.42
1:C:187:LYS:HZ2	1:D:347:LYS:CG	2.13	0.42
1:C:401:VAL:HG13	1:C:492:LEU:CD2	2.43	0.42
1:C:452:ALA:O	1:C:453:ILE:HG22	2.18	0.42
1:D:48:LEU:CD1	1:D:48:LEU:N	2.72	0.42
1:D:227:VAL:CG2	1:D:303:ILE:HB	2.35	0.42
1:D:410:GLU:CB	1:D:463:HIS:CD2	3.02	0.42
1:E:6:GLY:O	1:E:7:VAL:HG13	2.19	0.42
1:E:13:LYS:HD3	1:F:49:VAL:CG1	2.38	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:233:ALA:HB3	1:E:283:VAL:H	1.84	0.42
1:E:250:ILE:HG22	1:F:251:ARG:N	2.33	0.42
1:E:520:LYS:CD	1:F:68:MET:H	2.32	0.42
1:F:233:ALA:HB3	1:F:283:VAL:H	1.84	0.42
1:F:372:THR:HG22	1:F:373:THR:N	2.34	0.42
1:F:379:GLU:HA	1:F:382:ARG:CD	2.49	0.42
1:F:410:GLU:HG3	1:F:463:HIS:CG	2.53	0.42
1:G:190:LYS:HA	1:G:193:ILE:CD1	2.47	0.42
1:G:192:LEU:CD2	1:G:363:LYS:HD3	2.49	0.42
1:G:250:ILE:HG22	1:H:251:ARG:N	2.33	0.42
1:G:285:PHE:O	1:G:286:CYS:HB2	2.18	0.42
1:G:450:LEU:HD12	1:G:450:LEU:HA	1.76	0.42
1:H:203:ILE:HG21	1:H:372:THR:HG23	2.01	0.42
1:H:208:LEU:HD23	1:H:209:ILE:N	2.34	0.42
1:H:241:ILE:O	1:H:241:ILE:HG13	2.19	0.42
1:H:403:GLY:HA3	1:H:489:VAL:O	2.19	0.42
1:I:208:LEU:HD23	1:I:209:ILE:N	2.34	0.42
1:J:19:ASP:O	1:J:22:ARG:HD2	2.19	0.42
1:J:156:THR:CG2	1:J:170:LEU:HA	2.39	0.42
1:J:190:LYS:HA	1:J:193:ILE:CD1	2.47	0.42
1:J:298:LEU:HD12	1:J:298:LEU:HA	1.87	0.42
1:K:68:MET:H	1:L:520:LYS:CD	2.32	0.42
1:K:171:ALA:HA	1:K:174:ILE:HB	2.01	0.42
1:K:192:LEU:HB2	1:K:365:VAL:O	2.19	0.42
1:K:379:GLU:HA	1:K:382:ARG:CD	2.49	0.42
1:K:406:SER:C	1:K:408:GLU:N	2.72	0.42
1:K:410:GLU:HG3	1:K:463:HIS:CG	2.53	0.42
1:L:49:VAL:O	1:M:519:GLU:HG2	2.18	0.42
1:L:110:LEU:CD2	1:L:111:LEU:H	2.29	0.42
1:L:170:LEU:CG	1:L:171:ALA:N	2.68	0.42
1:L:192:LEU:HD11	1:L:363:LYS:HZ3	1.84	0.42
1:L:379:GLU:HA	1:L:382:ARG:CD	2.49	0.42
1:M:49:VAL:O	1:N:519:GLU:HG2	2.18	0.42
1:M:131:ALA:CA	1:M:134:LEU:HD13	2.45	0.42
1:M:180:ALA:CA	1:M:363:LYS:HD2	2.43	0.42
1:M:347:LYS:HD2	1:M:347:LYS:N	2.33	0.42
1:M:410:GLU:CB	1:M:463:HIS:CD2	3.02	0.42
1:M:470:CYS:HB3	1:M:480:VAL:HA	2.00	0.42
1:N:135:LEU:HD11	1:N:493:ARG:NE	2.34	0.42
1:N:203:ILE:HG21	1:N:372:THR:HG23	2.01	0.42
1:N:401:VAL:HG13	1:N:492:LEU:CD2	2.43	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:39:LEU:HD13	1:O:59:ASN:HA	2.01	0.42
1:P:156:THR:CG2	1:P:170:LEU:HA	2.39	0.42
1:P:403:GLY:HA3	1:P:489:VAL:O	2.20	0.42
1:P:515:VAL:C	1:P:517:ALA:H	2.24	0.42
1:A:13:LYS:HD3	1:B:49:VAL:CG1	2.37	0.42
1:A:19:ASP:O	1:A:22:ARG:HD2	2.18	0.42
1:A:55:VAL:O	1:A:55:VAL:HG12	2.17	0.42
1:A:171:ALA:HA	1:A:174:ILE:HB	2.00	0.42
1:A:456:LEU:O	1:A:459:VAL:HG22	2.19	0.42
1:B:285:PHE:O	1:B:286:CYS:HB2	2.18	0.42
1:B:439:VAL:O	1:B:442:ARG:HB3	2.19	0.42
1:B:452:ALA:O	1:B:453:ILE:HG22	2.18	0.42
1:C:284:LEU:HD11	1:C:304:VAL:O	2.19	0.42
1:C:410:GLU:CB	1:C:463:HIS:CD2	3.02	0.42
1:C:519:GLU:HG2	1:D:49:VAL:O	2.18	0.42
1:D:6:GLY:O	1:D:7:VAL:HG13	2.19	0.42
1:D:131:ALA:CA	1:D:134:LEU:HD13	2.45	0.42
1:D:135:LEU:HD11	1:D:493:ARG:NE	2.35	0.42
1:D:147:LYS:O	1:D:150:LEU:HB3	2.20	0.42
1:D:231:LYS:HD2	1:D:231:LYS:HA	1.89	0.42
1:D:470:CYS:HB3	1:D:480:VAL:HA	2.00	0.42
1:E:147:LYS:H	1:E:147:LYS:CD	2.33	0.42
1:E:379:GLU:HA	1:E:382:ARG:CD	2.49	0.42
1:F:29:ARG:HH21	1:F:105:ARG:CG	2.23	0.42
1:F:147:LYS:O	1:F:150:LEU:HB3	2.20	0.42
1:F:152:LYS:HD3	1:F:174:ILE:HD12	2.00	0.42
1:F:171:ALA:HA	1:F:174:ILE:HB	2.01	0.42
1:F:192:LEU:HB2	1:F:365:VAL:O	2.19	0.42
1:F:403:GLY:HA3	1:F:489:VAL:O	2.19	0.42
1:F:406:SER:C	1:F:408:GLU:N	2.72	0.42
1:H:216:LYS:HZ2	1:H:352:SER:HB2	1.84	0.42
1:I:19:ASP:O	1:I:22:ARG:HD2	2.19	0.42
1:I:65:LEU:CD1	1:I:79:ILE:HG23	2.47	0.42
1:I:203:ILE:HG21	1:I:372:THR:HG23	2.01	0.42
1:I:241:ILE:O	1:I:241:ILE:HG13	2.19	0.42
1:I:285:PHE:O	1:I:286:CYS:HB2	2.18	0.42
1:J:117:PRO:CD	1:J:511:ARG:HE	2.33	0.42
1:J:192:LEU:CD2	1:J:363:LYS:HD3	2.49	0.42
1:J:197:LYS:HD3	1:J:197:LYS:HA	1.90	0.42
1:J:242:LYS:C	1:J:244:THR:H	2.26	0.42
1:K:49:VAL:CG1	1:L:13:LYS:HD3	2.38	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:135:LEU:HD11	1:K:493:ARG:NE	2.35	0.42
1:K:147:LYS:O	1:K:150:LEU:HB3	2.20	0.42
1:K:152:LYS:HD3	1:K:174:ILE:HD12	2.00	0.42
1:K:233:ALA:HB3	1:K:283:VAL:H	1.84	0.42
1:K:403:GLY:HA3	1:K:489:VAL:O	2.19	0.42
1:L:44:MET:O	1:L:46:LYS:HD3	2.19	0.42
1:L:147:LYS:H	1:L:147:LYS:CD	2.33	0.42
1:M:44:MET:O	1:M:46:LYS:HD3	2.19	0.42
1:M:135:LEU:HD11	1:M:493:ARG:NE	2.35	0.42
1:M:147:LYS:O	1:M:150:LEU:HB3	2.20	0.42
1:M:403:GLY:HA3	1:M:489:VAL:O	2.19	0.42
1:M:428:LEU:O	1:M:431:ARG:N	2.52	0.42
1:N:103:LEU:O	1:N:105:ARG:N	2.52	0.42
1:N:410:GLU:CB	1:N:463:HIS:CD2	3.02	0.42
1:O:208:LEU:HD23	1:O:209:ILE:N	2.34	0.42
1:O:439:VAL:O	1:O:442:ARG:HB3	2.19	0.42
1:P:57:VAL:HG21	1:P:63:THR:HG21	2.01	0.42
1:P:171:ALA:HA	1:P:174:ILE:HB	2.00	0.42
1:P:192:LEU:HB2	1:P:365:VAL:O	2.19	0.42
1:P:208:LEU:HD23	1:P:209:ILE:N	2.34	0.42
1:P:404:GLY:CA	1:P:487:GLY:HA3	2.50	0.42
1:P:520:LYS:H	1:P:520:LYS:HD3	1.77	0.42
1:A:208:LEU:HD23	1:A:209:ILE:N	2.34	0.42
1:A:515:VAL:C	1:A:517:ALA:H	2.24	0.42
1:B:48:LEU:CD1	1:B:48:LEU:N	2.72	0.42
1:B:192:LEU:HB2	1:B:365:VAL:O	2.19	0.42
1:B:203:ILE:HG21	1:B:372:THR:HG23	2.01	0.42
1:B:233:ALA:HB3	1:B:283:VAL:H	1.84	0.42
1:B:234:LEU:HD22	1:B:322:GLY:CA	2.46	0.42
1:B:379:GLU:HA	1:B:382:ARG:CD	2.49	0.42
1:C:203:ILE:HG21	1:C:372:THR:HG23	2.01	0.42
1:C:208:LEU:HD23	1:C:209:ILE:N	2.34	0.42
1:C:404:GLY:CA	1:C:487:GLY:HA3	2.50	0.42
1:D:137:THR:CG2	1:D:400:ILE:HG12	2.49	0.42
1:D:428:LEU:O	1:D:431:ARG:N	2.52	0.42
1:E:131:ALA:O	1:E:134:LEU:HD22	2.20	0.42
1:F:19:ASP:O	1:F:22:ARG:HD2	2.19	0.42
1:F:131:ALA:O	1:F:134:LEU:HD22	2.20	0.42
1:F:135:LEU:HD11	1:F:493:ARG:NE	2.35	0.42
1:F:165:LYS:C	1:F:167:LYS:N	2.74	0.42
1:F:450:LEU:CD1	1:J:450:LEU:HD13	2.47	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:19:ASP:O	1:G:22:ARG:HD2	2.19	0.42
1:G:117:PRO:CD	1:G:511:ARG:HE	2.33	0.42
1:G:208:LEU:CG	1:G:210:LYS:H	2.26	0.42
1:G:450:LEU:HD13	1:K:450:LEU:CD1	2.47	0.42
1:G:512:ILE:HD11	1:H:47:MET:CB	2.48	0.42
1:H:19:ASP:O	1:H:22:ARG:HD2	2.19	0.42
1:H:285:PHE:O	1:H:286:CYS:HB2	2.18	0.42
1:I:403:GLY:HA3	1:I:489:VAL:O	2.19	0.42
1:J:72:HIS:C	1:J:74:ALA:H	2.28	0.42
1:J:116:HIS:HA	1:J:117:PRO:HD2	1.93	0.42
1:J:285:PHE:O	1:J:286:CYS:HB2	2.18	0.42
1:K:131:ALA:CA	1:K:134:LEU:HD13	2.45	0.42
1:K:165:LYS:C	1:K:167:LYS:N	2.74	0.42
1:K:192:LEU:HD13	1:K:363:LYS:HZ1	1.84	0.42
1:L:131:ALA:O	1:L:134:LEU:HD22	2.20	0.42
1:L:347:LYS:CG	1:M:187:LYS:HZ2	2.13	0.42
1:M:192:LEU:CD1	1:M:363:LYS:HZ1	2.32	0.42
1:M:227:VAL:CG2	1:M:303:ILE:HB	2.35	0.42
1:M:515:VAL:C	1:M:517:ALA:H	2.24	0.42
1:N:128:ALA:O	1:N:131:ALA:HB3	2.18	0.42
1:N:155:MET:SD	1:N:387:ALA:HB1	2.58	0.42
1:N:347:LYS:HD2	1:N:347:LYS:H	1.84	0.42
1:N:404:GLY:CA	1:N:487:GLY:HA3	2.50	0.42
1:N:439:VAL:O	1:N:442:ARG:HB3	2.19	0.42
1:O:285:PHE:O	1:O:286:CYS:HB2	2.18	0.42
1:O:442:ARG:NH2	1:O:456:LEU:HA	2.35	0.42
1:P:117:PRO:CD	1:P:511:ARG:HE	2.33	0.42
1:P:131:ALA:O	1:P:134:LEU:HD22	2.20	0.42
1:P:169:LYS:NZ	1:P:173:ILE:HD11	2.33	0.42
1:P:197:LYS:HD3	1:P:197:LYS:HA	1.90	0.42
1:P:410:GLU:CB	1:P:463:HIS:CD2	3.02	0.42
1:P:456:LEU:O	1:P:459:VAL:HG22	2.19	0.42
1:A:39:LEU:HD13	1:A:59:ASN:HA	2.01	0.42
1:A:103:LEU:O	1:A:105:ARG:N	2.51	0.42
1:A:131:ALA:O	1:A:134:LEU:HD22	2.20	0.42
1:A:147:LYS:O	1:A:150:LEU:HB3	2.20	0.42
1:A:410:GLU:CB	1:A:463:HIS:CD2	3.02	0.42
1:C:128:ALA:O	1:C:131:ALA:HB3	2.18	0.42
1:C:192:LEU:CD2	1:C:363:LYS:HD3	2.49	0.42
1:C:372:THR:HG22	1:C:373:THR:H	1.85	0.42
1:C:379:GLU:HA	1:C:382:ARG:CD	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:439:VAL:O	1:C:442:ARG:HB3	2.19	0.42
1:C:520:LYS:CD	1:D:68:MET:H	2.32	0.42
1:D:65:LEU:CD1	1:D:79:ILE:HG23	2.47	0.42
1:D:180:ALA:CA	1:D:363:LYS:HD2	2.43	0.42
1:D:403:GLY:HA3	1:D:489:VAL:O	2.19	0.42
1:D:442:ARG:NH2	1:D:456:LEU:HA	2.35	0.42
1:E:44:MET:O	1:E:46:LYS:HD3	2.19	0.42
1:E:329:ILE:HG23	1:E:330:LYS:HD3	2.00	0.42
1:E:372:THR:HG22	1:E:373:THR:H	1.85	0.42
1:F:131:ALA:CA	1:F:134:LEU:HD13	2.45	0.42
1:F:284:LEU:HD11	1:F:304:VAL:O	2.19	0.42
1:G:44:MET:O	1:G:46:LYS:HD3	2.19	0.42
1:G:72:HIS:C	1:G:74:ALA:H	2.28	0.42
1:G:197:LYS:HD3	1:G:197:LYS:HA	1.90	0.42
1:G:284:LEU:HD11	1:G:304:VAL:O	2.19	0.42
1:G:404:GLY:CA	1:G:487:GLY:HA3	2.50	0.42
1:H:131:ALA:O	1:H:134:LEU:HD22	2.20	0.42
1:H:410:GLU:CB	1:H:463:HIS:CD2	3.02	0.42
1:H:439:VAL:O	1:H:442:ARG:HB3	2.19	0.42
1:I:47:MET:CB	1:J:512:ILE:HD11	2.48	0.42
1:I:57:VAL:HG21	1:I:63:THR:HG21	2.00	0.42
1:I:72:HIS:C	1:I:74:ALA:H	2.28	0.42
1:J:44:MET:O	1:J:46:LYS:HD3	2.19	0.42
1:J:130:LYS:HA	1:J:130:LYS:HD3	1.88	0.42
1:J:250:ILE:HG12	1:K:250:ILE:HG21	2.01	0.42
1:J:404:GLY:CA	1:J:487:GLY:HA3	2.50	0.42
1:J:428:LEU:O	1:J:431:ARG:N	2.52	0.42
1:J:439:VAL:O	1:J:442:ARG:HB3	2.19	0.42
1:J:510:LEU:CD1	1:J:511:ARG:H	2.25	0.42
1:K:131:ALA:O	1:K:134:LEU:HD22	2.20	0.42
1:K:284:LEU:HD11	1:K:304:VAL:O	2.19	0.42
1:L:180:ALA:CA	1:L:363:LYS:HD2	2.43	0.42
1:L:372:THR:HG22	1:L:373:THR:H	1.85	0.42
1:M:6:GLY:O	1:M:7:VAL:HG13	2.19	0.42
1:M:137:THR:CG2	1:M:400:ILE:HG12	2.49	0.42
1:M:171:ALA:HA	1:M:174:ILE:HB	2.01	0.42
1:M:379:GLU:HA	1:M:382:ARG:CD	2.49	0.42
1:N:152:LYS:HD3	1:N:174:ILE:HD12	2.00	0.42
1:N:192:LEU:CD2	1:N:363:LYS:HD3	2.49	0.42
1:N:208:LEU:HD23	1:N:209:ILE:N	2.34	0.42
1:N:250:ILE:HG12	1:O:250:ILE:HG21	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:379:GLU:HA	1:N:382:ARG:CD	2.49	0.42
1:O:131:ALA:O	1:O:134:LEU:HD22	2.20	0.42
1:O:135:LEU:HD11	1:O:493:ARG:NE	2.35	0.42
1:O:171:ALA:HA	1:O:174:ILE:HB	2.01	0.42
1:O:203:ILE:HG21	1:O:372:THR:HG23	2.01	0.42
1:O:233:ALA:HB3	1:O:283:VAL:H	1.84	0.42
1:O:234:LEU:HD22	1:O:322:GLY:CA	2.46	0.42
1:O:284:LEU:HD11	1:O:304:VAL:O	2.19	0.42
1:O:379:GLU:HA	1:O:382:ARG:CD	2.49	0.42
1:O:440:ILE:C	1:O:442:ARG:N	2.74	0.42
1:P:147:LYS:O	1:P:150:LEU:HB3	2.20	0.42
1:P:174:ILE:O	1:P:178:VAL:N	2.48	0.42
1:P:203:ILE:HG21	1:P:372:THR:HG23	2.01	0.42
1:P:439:VAL:O	1:P:442:ARG:HB3	2.19	0.42
1:A:68:MET:H	1:H:520:LYS:CD	2.32	0.42
1:A:117:PRO:CD	1:A:511:ARG:HE	2.33	0.42
1:A:155:MET:SD	1:A:387:ALA:HB1	2.58	0.42
1:A:225:LYS:HZ1	1:H:188:VAL:HG21	1.84	0.42
1:A:439:VAL:O	1:A:442:ARG:HB3	2.19	0.42
1:B:131:ALA:O	1:B:134:LEU:HD22	2.20	0.42
1:B:137:THR:HG23	1:B:400:ILE:O	2.19	0.42
1:B:171:ALA:HA	1:B:174:ILE:HB	2.01	0.42
1:C:152:LYS:HD3	1:C:174:ILE:HD12	2.00	0.42
1:C:165:LYS:O	1:C:167:LYS:N	2.49	0.42
1:C:169:LYS:NZ	1:C:173:ILE:HD11	2.33	0.42
1:C:347:LYS:HD2	1:C:347:LYS:H	1.84	0.42
1:C:450:LEU:HA	1:C:450:LEU:HD12	1.76	0.42
1:C:485:GLU:O	1:C:486:ASN:C	2.62	0.42
1:D:39:LEU:HD13	1:D:59:ASN:HA	2.01	0.42
1:D:171:ALA:HA	1:D:174:ILE:HB	2.01	0.42
1:D:230:ALA:HB3	1:D:343:VAL:HG11	1.99	0.42
1:D:233:ALA:HB3	1:D:283:VAL:H	1.84	0.42
1:D:379:GLU:HA	1:D:382:ARG:CD	2.49	0.42
1:D:485:GLU:O	1:D:486:ASN:C	2.62	0.42
1:D:515:VAL:C	1:D:517:ALA:H	2.24	0.42
1:E:372:THR:HG22	1:E:373:THR:N	2.34	0.42
1:E:456:LEU:O	1:E:459:VAL:HG22	2.19	0.42
1:F:190:LYS:HA	1:F:193:ILE:CD1	2.47	0.42
1:G:44:MET:CE	1:G:58:THR:HG21	2.24	0.42
1:G:103:LEU:CD2	1:G:106:LYS:HB3	2.50	0.42
1:G:130:LYS:HA	1:G:130:LYS:HD3	1.88	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:213:LEU:O	1:G:215:ASP:N	2.39	0.42
1:G:241:ILE:O	1:G:241:ILE:HG13	2.19	0.42
1:G:242:LYS:C	1:G:244:THR:H	2.26	0.42
1:G:372:THR:HG22	1:G:373:THR:H	1.85	0.42
1:G:428:LEU:O	1:G:431:ARG:N	2.52	0.42
1:G:439:VAL:O	1:G:442:ARG:HB3	2.19	0.42
1:H:57:VAL:HG21	1:H:63:THR:HG21	2.00	0.42
1:H:372:THR:HG22	1:H:373:THR:H	1.85	0.42
1:H:456:LEU:O	1:H:459:VAL:HG22	2.19	0.42
1:I:131:ALA:O	1:I:134:LEU:HD22	2.20	0.42
1:I:207:GLU:HA	1:I:369:ILE:CG2	2.44	0.42
1:I:258:LEU:CD2	1:J:251:ARG:HH11	2.23	0.42
1:I:410:GLU:CB	1:I:463:HIS:CD2	3.02	0.42
1:I:439:VAL:O	1:I:442:ARG:HB3	2.19	0.42
1:I:456:LEU:O	1:I:459:VAL:HG22	2.19	0.42
1:I:510:LEU:CD1	1:I:511:ARG:H	2.25	0.42
1:J:241:ILE:O	1:J:241:ILE:HG13	2.19	0.42
1:J:284:LEU:HD11	1:J:304:VAL:O	2.19	0.42
1:J:372:THR:HG22	1:J:373:THR:H	1.85	0.42
1:J:379:GLU:HA	1:J:382:ARG:CD	2.49	0.42
1:K:19:ASP:O	1:K:22:ARG:HD2	2.19	0.42
1:K:144:ALA:HB2	1:K:400:ILE:CG1	2.22	0.42
1:K:204:ASP:HB3	1:K:205:ASP:H	1.73	0.42
1:K:410:GLU:CB	1:K:463:HIS:CD2	3.02	0.42
1:L:192:LEU:HB2	1:L:365:VAL:O	2.19	0.42
1:L:329:ILE:HG23	1:L:330:LYS:HD3	2.00	0.42
1:L:372:THR:HG22	1:L:373:THR:N	2.34	0.42
1:L:428:LEU:O	1:L:431:ARG:N	2.52	0.42
1:L:456:LEU:O	1:L:459:VAL:HG22	2.19	0.42
1:M:39:LEU:HD13	1:M:59:ASN:HA	2.01	0.42
1:M:65:LEU:CD1	1:M:79:ILE:HG23	2.47	0.42
1:M:68:MET:H	1:N:520:LYS:CD	2.32	0.42
1:M:442:ARG:NH2	1:M:456:LEU:HA	2.35	0.42
1:N:55:VAL:O	1:N:55:VAL:HG12	2.18	0.42
1:N:117:PRO:CD	1:N:511:ARG:HE	2.33	0.42
1:N:180:ALA:CA	1:N:363:LYS:HD2	2.43	0.42
1:N:372:THR:HG22	1:N:373:THR:H	1.85	0.42
1:N:485:GLU:O	1:N:486:ASN:C	2.62	0.42
1:O:231:LYS:HD2	1:O:231:LYS:HA	1.89	0.42
1:O:452:ALA:O	1:O:453:ILE:HG22	2.18	0.42
1:O:509:LEU:O	1:O:509:LEU:HG	2.17	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:39:LEU:HD13	1:P:59:ASN:HA	2.02	0.42
1:P:55:VAL:O	1:P:55:VAL:HG12	2.18	0.42
1:P:103:LEU:O	1:P:105:ARG:N	2.52	0.42
1:P:462:ALA:C	1:P:466:ASN:HB3	2.45	0.42
1:A:103:LEU:CD2	1:A:106:LYS:HB3	2.50	0.42
1:A:174:ILE:O	1:A:178:VAL:N	2.48	0.42
1:A:258:LEU:HD13	1:H:251:ARG:HH11	1.82	0.42
1:A:462:ALA:C	1:A:466:ASN:HB3	2.45	0.42
1:B:141:GLU:HG3	1:B:142:VAL:HG23	2.01	0.42
1:B:250:ILE:HG21	1:C:250:ILE:HG12	2.01	0.42
1:B:450:LEU:CD1	1:N:450:LEU:HD13	2.47	0.42
1:B:456:LEU:O	1:B:459:VAL:HG22	2.19	0.42
1:B:509:LEU:O	1:B:509:LEU:HG	2.17	0.42
1:B:520:LYS:CD	1:C:68:MET:H	2.32	0.42
1:C:117:PRO:CD	1:C:511:ARG:HE	2.33	0.42
1:C:372:THR:HG22	1:C:373:THR:N	2.34	0.42
1:C:462:ALA:C	1:C:466:ASN:HB3	2.45	0.42
1:D:192:LEU:HD11	1:D:363:LYS:HZ3	1.85	0.42
1:D:436:ALA:CA	1:D:439:VAL:HG22	2.46	0.42
1:D:439:VAL:O	1:D:442:ARG:HB3	2.19	0.42
1:E:117:PRO:CD	1:E:511:ARG:HE	2.33	0.42
1:E:192:LEU:HB2	1:E:365:VAL:O	2.19	0.42
1:E:192:LEU:CD2	1:E:363:LYS:HD3	2.49	0.42
1:E:428:LEU:O	1:E:431:ARG:N	2.52	0.42
1:F:6:GLY:O	1:F:7:VAL:HG13	2.19	0.42
1:F:117:PRO:CD	1:F:511:ARG:HE	2.33	0.42
1:F:250:ILE:HG21	1:G:250:ILE:HG12	2.01	0.42
1:F:410:GLU:CB	1:F:463:HIS:CD2	3.02	0.42
1:G:147:LYS:H	1:G:147:LYS:CD	2.33	0.42
1:G:379:GLU:HA	1:G:382:ARG:CD	2.49	0.42
1:H:72:HIS:C	1:H:74:ALA:H	2.28	0.42
1:H:103:LEU:CD2	1:H:106:LYS:HB3	2.50	0.42
1:H:147:LYS:O	1:H:150:LEU:HB3	2.20	0.42
1:I:103:LEU:CD2	1:I:106:LYS:HB3	2.50	0.42
1:I:117:PRO:CD	1:I:511:ARG:HE	2.33	0.42
1:I:147:LYS:O	1:I:150:LEU:HB3	2.20	0.42
1:I:372:THR:HG22	1:I:373:THR:H	1.85	0.42
1:I:519:GLU:HG2	1:P:49:VAL:O	2.18	0.42
1:J:47:MET:CB	1:K:512:ILE:HD11	2.48	0.42
1:J:103:LEU:CD2	1:J:106:LYS:HB3	2.50	0.42
1:K:117:PRO:CD	1:K:511:ARG:HE	2.33	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:117:PRO:CD	1:L:511:ARG:HE	2.33	0.42
1:L:192:LEU:CD2	1:L:363:LYS:HD3	2.49	0.42
1:M:131:ALA:O	1:M:134:LEU:HD22	2.20	0.42
1:M:439:VAL:O	1:M:442:ARG:HB3	2.19	0.42
1:M:485:GLU:O	1:M:486:ASN:C	2.62	0.42
1:N:6:GLY:O	1:N:7:VAL:HG13	2.19	0.42
1:N:68:MET:H	1:O:520:LYS:CD	2.32	0.42
1:N:165:LYS:O	1:N:167:LYS:N	2.49	0.42
1:O:117:PRO:CD	1:O:511:ARG:HE	2.33	0.42
1:O:192:LEU:HB2	1:O:365:VAL:O	2.19	0.42
1:O:485:GLU:O	1:O:486:ASN:C	2.62	0.42
1:P:103:LEU:CD2	1:P:106:LYS:HB3	2.50	0.42
1:A:117:PRO:HG2	1:A:511:ARG:HD2	2.02	0.42
1:A:135:LEU:HD11	1:A:493:ARG:NE	2.34	0.42
1:A:169:LYS:NZ	1:A:173:ILE:HD11	2.33	0.42
1:A:345:GLU:O	1:A:353:MET:HB2	2.20	0.42
1:A:379:GLU:HA	1:A:382:ARG:CD	2.49	0.42
1:B:117:PRO:CD	1:B:511:ARG:HE	2.33	0.42
1:B:147:LYS:O	1:B:150:LEU:HB3	2.20	0.42
1:B:174:ILE:O	1:B:178:VAL:N	2.48	0.42
1:B:485:GLU:O	1:B:486:ASN:C	2.62	0.42
1:C:6:GLY:O	1:C:7:VAL:HG13	2.19	0.42
1:C:11:ASN:ND2	1:C:12:MET:HG2	2.33	0.42
1:C:55:VAL:O	1:C:55:VAL:HG12	2.18	0.42
1:C:65:LEU:CD1	1:C:79:ILE:HG23	2.47	0.42
1:C:187:LYS:NZ	1:D:347:LYS:HZ3	2.17	0.42
1:D:103:LEU:CD2	1:D:106:LYS:HB3	2.50	0.42
1:D:131:ALA:O	1:D:134:LEU:HD22	2.20	0.42
1:D:187:LYS:HZ2	1:E:347:LYS:CG	2.14	0.42
1:D:520:LYS:CD	1:E:68:MET:H	2.32	0.42
1:E:39:LEU:HD13	1:E:59:ASN:HA	2.02	0.42
1:E:152:LYS:HD3	1:E:174:ILE:HD12	2.00	0.42
1:E:180:ALA:CA	1:E:363:LYS:HD2	2.43	0.42
1:E:345:GLU:O	1:E:353:MET:HB2	2.20	0.42
1:E:485:GLU:O	1:E:486:ASN:C	2.62	0.42
1:F:512:ILE:HD11	1:G:47:MET:CB	2.48	0.42
1:G:9:PRO:O	1:G:10:GLU:C	2.63	0.42
1:G:65:LEU:CD1	1:G:79:ILE:HG23	2.47	0.42
1:G:137:THR:CG2	1:G:400:ILE:HG12	2.49	0.42
1:G:192:LEU:HB2	1:G:365:VAL:O	2.19	0.42
1:H:44:MET:O	1:H:46:LYS:HD3	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:165:LYS:O	1:H:167:LYS:N	2.49	0.42
1:I:44:MET:O	1:I:46:LYS:HD3	2.19	0.42
1:I:65:LEU:HD13	1:I:65:LEU:HA	1.85	0.42
1:I:520:LYS:CD	1:P:68:MET:H	2.32	0.42
1:J:9:PRO:O	1:J:10:GLU:C	2.63	0.42
1:J:65:LEU:CD1	1:J:79:ILE:HG23	2.47	0.42
1:J:135:LEU:HD11	1:J:493:ARG:NE	2.34	0.42
1:K:6:GLY:O	1:K:7:VAL:HG13	2.19	0.42
1:K:54:ASP:N	1:L:522:ARG:NH1	2.58	0.42
1:K:190:LYS:HA	1:K:193:ILE:CD1	2.47	0.42
1:L:39:LEU:HD13	1:L:59:ASN:HA	2.02	0.42
1:L:68:MET:H	1:M:520:LYS:CD	2.32	0.42
1:L:345:GLU:O	1:L:353:MET:HB2	2.20	0.42
1:M:103:LEU:CD2	1:M:106:LYS:HB3	2.50	0.42
1:M:233:ALA:HB3	1:M:283:VAL:H	1.84	0.42
1:N:47:MET:CB	1:O:512:ILE:HD11	2.48	0.42
1:N:169:LYS:NZ	1:N:173:ILE:HD11	2.33	0.42
1:N:372:THR:HG22	1:N:373:THR:N	2.34	0.42
1:N:403:GLY:HA3	1:N:489:VAL:O	2.20	0.42
1:N:428:LEU:O	1:N:431:ARG:N	2.52	0.42
1:N:462:ALA:C	1:N:466:ASN:HB3	2.45	0.42
1:O:103:LEU:CD2	1:O:106:LYS:HB3	2.50	0.42
1:O:147:LYS:O	1:O:150:LEU:HB3	2.20	0.42
1:O:174:ILE:O	1:O:178:VAL:N	2.48	0.42
1:O:456:LEU:O	1:O:459:VAL:HG22	2.19	0.42
1:P:11:ASN:ND2	1:P:12:MET:HG2	2.33	0.42
1:P:19:ASP:O	1:P:22:ARG:HD2	2.19	0.42
1:A:11:ASN:ND2	1:A:12:MET:HG2	2.33	0.42
1:A:49:VAL:O	1:H:519:GLU:HG2	2.18	0.42
1:A:158:ILE:O	1:A:160:GLY:N	2.53	0.42
1:A:197:LYS:HD3	1:A:197:LYS:HA	1.90	0.42
1:A:251:ARG:HH11	1:B:258:LEU:HD13	1.82	0.42
1:A:343:VAL:HG22	1:A:344:GLU:N	2.35	0.42
1:B:152:LYS:CB	1:B:174:ILE:HG13	2.38	0.42
1:B:231:LYS:HD2	1:B:231:LYS:HA	1.89	0.42
1:B:284:LEU:HD11	1:B:304:VAL:O	2.19	0.42
1:C:141:GLU:HG3	1:C:142:VAL:HG23	2.02	0.42
1:C:154:ALA:CB	1:C:488:VAL:HG13	2.49	0.42
1:C:180:ALA:CA	1:C:363:LYS:HD2	2.43	0.42
1:C:192:LEU:HB2	1:C:365:VAL:O	2.19	0.42
1:C:403:GLY:HA3	1:C:489:VAL:O	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:450:LEU:HD13	1:O:450:LEU:CD1	2.47	0.42
1:D:192:LEU:HB2	1:D:365:VAL:O	2.19	0.42
1:D:241:ILE:O	1:D:241:ILE:HG13	2.19	0.42
1:E:72:HIS:C	1:E:74:ALA:H	2.28	0.42
1:E:165:LYS:O	1:E:167:LYS:N	2.49	0.42
1:E:208:LEU:HD23	1:E:209:ILE:N	2.34	0.42
1:F:9:PRO:O	1:F:10:GLU:C	2.63	0.42
1:F:217:GLU:C	1:F:219:VAL:N	2.75	0.42
1:F:242:LYS:C	1:F:244:THR:N	2.78	0.42
1:F:345:GLU:O	1:F:353:MET:HB2	2.20	0.42
1:F:404:GLY:CA	1:F:487:GLY:HA3	2.49	0.42
1:G:135:LEU:HD11	1:G:493:ARG:NE	2.34	0.42
1:G:217:GLU:C	1:G:219:VAL:N	2.75	0.42
1:G:510:LEU:CD1	1:G:511:ARG:H	2.25	0.42
1:H:8:LEU:N	1:H:9:PRO:CD	2.82	0.42
1:H:117:PRO:CD	1:H:511:ARG:HE	2.33	0.42
1:H:260:GLU:OE2	1:H:264:GLN:HB3	2.20	0.42
1:H:442:ARG:NH2	1:H:456:LEU:HA	2.35	0.42
1:I:110:LEU:CD2	1:I:111:LEU:H	2.29	0.42
1:I:260:GLU:OE2	1:I:264:GLN:HB3	2.20	0.42
1:I:442:ARG:NH2	1:I:456:LEU:HA	2.35	0.42
1:J:137:THR:CG2	1:J:400:ILE:HG12	2.49	0.42
1:J:192:LEU:HB2	1:J:365:VAL:O	2.19	0.42
1:J:192:LEU:HD11	1:J:363:LYS:HZ3	1.85	0.42
1:J:208:LEU:HD23	1:J:209:ILE:N	2.34	0.42
1:J:217:GLU:C	1:J:219:VAL:N	2.75	0.42
1:K:217:GLU:C	1:K:219:VAL:N	2.75	0.42
1:K:241:ILE:O	1:K:241:ILE:HG13	2.19	0.42
1:K:242:LYS:C	1:K:244:THR:N	2.78	0.42
1:K:345:GLU:O	1:K:353:MET:HB2	2.20	0.42
1:K:428:LEU:O	1:K:431:ARG:N	2.52	0.42
1:K:456:LEU:O	1:K:459:VAL:HG22	2.19	0.42
1:K:510:LEU:CD1	1:K:511:ARG:H	2.25	0.42
1:L:152:LYS:HD3	1:L:174:ILE:HD12	2.00	0.42
1:L:165:LYS:O	1:L:167:LYS:N	2.49	0.42
1:L:208:LEU:HD23	1:L:209:ILE:N	2.34	0.42
1:M:152:LYS:HD3	1:M:174:ILE:HD12	2.00	0.42
1:M:230:ALA:HB3	1:M:343:VAL:HG11	1.99	0.42
1:M:347:LYS:HZ3	1:N:187:LYS:NZ	2.17	0.42
1:M:436:ALA:CA	1:M:439:VAL:HG22	2.46	0.42
1:N:11:ASN:ND2	1:N:12:MET:HG2	2.33	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:65:LEU:CD1	1:N:79:ILE:HG23	2.47	0.42
1:N:104:LEU:HA	1:N:107:ALA:HB3	2.02	0.42
1:N:141:GLU:HG3	1:N:142:VAL:HG23	2.02	0.42
1:N:192:LEU:HB2	1:N:365:VAL:O	2.19	0.42
1:O:48:LEU:CD1	1:O:48:LEU:N	2.72	0.42
1:P:104:LEU:HA	1:P:107:ALA:HB3	2.02	0.42
1:P:343:VAL:HG22	1:P:344:GLU:N	2.35	0.42
1:P:345:GLU:O	1:P:353:MET:HB2	2.20	0.42
1:A:6:GLY:O	1:A:7:VAL:HG13	2.19	0.42
1:A:141:GLU:HG3	1:A:142:VAL:H	1.85	0.42
1:A:250:ILE:HG12	1:H:250:ILE:HG21	2.01	0.42
1:B:103:LEU:CD2	1:B:106:LYS:HB3	2.50	0.42
1:B:141:GLU:HG3	1:B:142:VAL:H	1.85	0.42
1:B:158:ILE:O	1:B:160:GLY:N	2.53	0.42
1:B:307:ARG:O	1:B:308:ARG:HG2	2.20	0.42
1:C:104:LEU:HA	1:C:107:ALA:HB3	2.02	0.42
1:C:428:LEU:O	1:C:431:ARG:N	2.52	0.42
1:D:117:PRO:CD	1:D:511:ARG:HE	2.33	0.42
1:D:269:LEU:HD13	1:D:269:LEU:HA	1.80	0.42
1:D:329:ILE:HG23	1:D:330:LYS:HD3	2.00	0.42
1:D:401:VAL:HG13	1:D:492:LEU:CD2	2.43	0.42
1:E:57:VAL:HG21	1:E:63:THR:HG21	2.01	0.42
1:F:72:HIS:C	1:F:74:ALA:H	2.28	0.42
1:F:158:ILE:O	1:F:160:GLY:N	2.53	0.42
1:F:329:ILE:HG23	1:F:330:LYS:HD3	2.00	0.42
1:F:428:LEU:O	1:F:431:ARG:N	2.52	0.42
1:F:439:VAL:O	1:F:442:ARG:HB3	2.19	0.42
1:F:456:LEU:O	1:F:459:VAL:HG22	2.19	0.42
1:F:462:ALA:C	1:F:466:ASN:HB3	2.45	0.42
1:F:485:GLU:O	1:F:486:ASN:C	2.62	0.42
1:G:158:ILE:O	1:G:160:GLY:N	2.53	0.42
1:G:208:LEU:HD23	1:G:209:ILE:N	2.34	0.42
1:G:410:GLU:CB	1:G:463:HIS:CD2	3.02	0.42
1:G:485:GLU:O	1:G:486:ASN:C	2.62	0.42
1:H:46:LYS:HZ1	1:H:58:THR:HA	1.84	0.42
1:H:65:LEU:HD13	1:H:65:LEU:HA	1.85	0.42
1:H:227:VAL:CG2	1:H:303:ILE:HB	2.35	0.42
1:H:462:ALA:C	1:H:466:ASN:HB3	2.45	0.42
1:I:250:ILE:HG21	1:P:250:ILE:HG12	2.01	0.42
1:J:154:ALA:CB	1:J:488:VAL:HG13	2.49	0.42
1:J:158:ILE:O	1:J:160:GLY:N	2.53	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:9:PRO:O	1:K:10:GLU:C	2.63	0.42
1:K:158:ILE:O	1:K:160:GLY:N	2.53	0.42
1:K:372:THR:HG22	1:K:373:THR:H	1.85	0.42
1:K:404:GLY:CA	1:K:487:GLY:HA3	2.49	0.42
1:L:57:VAL:HG21	1:L:63:THR:HG21	2.01	0.42
1:L:72:HIS:C	1:L:74:ALA:H	2.28	0.42
1:L:442:ARG:NH2	1:L:456:LEU:HA	2.34	0.42
1:L:485:GLU:O	1:L:486:ASN:C	2.62	0.42
1:M:117:PRO:CD	1:M:511:ARG:HE	2.33	0.42
1:M:141:GLU:HG3	1:M:142:VAL:HG23	2.02	0.42
1:M:192:LEU:HB2	1:M:365:VAL:O	2.19	0.42
1:M:241:ILE:O	1:M:241:ILE:HG13	2.19	0.42
1:M:401:VAL:HG13	1:M:492:LEU:CD2	2.43	0.42
1:N:131:ALA:O	1:N:134:LEU:HD22	2.20	0.42
1:N:154:ALA:CB	1:N:488:VAL:HG13	2.49	0.42
1:N:171:ALA:HA	1:N:174:ILE:HB	2.00	0.42
1:N:192:LEU:HD13	1:N:363:LYS:HZ1	1.84	0.42
1:O:152:LYS:CB	1:O:174:ILE:HG13	2.39	0.42
1:O:372:THR:HG22	1:O:373:THR:H	1.85	0.42
1:P:72:HIS:C	1:P:74:ALA:H	2.28	0.42
1:P:131:ALA:CA	1:P:134:LEU:HD13	2.45	0.42
1:P:180:ALA:CA	1:P:363:LYS:HD2	2.43	0.42
1:P:379:GLU:HA	1:P:382:ARG:CD	2.49	0.42
1:P:485:GLU:O	1:P:486:ASN:C	2.62	0.42
1:A:284:LEU:HD11	1:A:304:VAL:O	2.19	0.42
1:A:440:ILE:N	1:A:441:PRO:HD2	2.35	0.42
1:B:8:LEU:N	1:B:9:PRO:CD	2.82	0.42
1:B:372:THR:HG22	1:B:373:THR:H	1.85	0.42
1:B:512:ILE:HD11	1:C:47:MET:CB	2.48	0.42
1:C:171:ALA:HA	1:C:174:ILE:HB	2.00	0.42
1:D:141:GLU:HG3	1:D:142:VAL:HG23	2.02	0.42
1:D:152:LYS:HD3	1:D:174:ILE:HD12	2.00	0.42
1:D:165:LYS:O	1:D:167:LYS:N	2.49	0.42
1:D:372:THR:HG22	1:D:373:THR:N	2.34	0.42
1:D:392:GLY:O	1:D:395:ILE:HG13	2.20	0.42
1:E:141:GLU:HG3	1:E:142:VAL:HG23	2.02	0.42
1:E:442:ARG:NH2	1:E:456:LEU:HA	2.34	0.42
1:F:57:VAL:HG21	1:F:63:THR:HG21	2.00	0.42
1:F:70:VAL:CG2	1:F:71:GLU:H	2.18	0.42
1:F:192:LEU:CD2	1:F:363:LYS:HD3	2.49	0.42
1:F:241:ILE:O	1:F:241:ILE:HG13	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:260:GLU:OE2	1:F:264:GLN:HB3	2.20	0.42
1:F:372:THR:HG22	1:F:373:THR:H	1.85	0.42
1:G:154:ALA:CB	1:G:488:VAL:HG13	2.49	0.42
1:H:42:LYS:HZ1	1:H:446:GLU:HA	1.85	0.42
1:H:158:ILE:O	1:H:160:GLY:N	2.53	0.42
1:H:192:LEU:HB2	1:H:365:VAL:O	2.19	0.42
1:H:230:ALA:O	1:H:231:LYS:HB2	2.20	0.42
1:H:440:ILE:N	1:H:441:PRO:HD2	2.35	0.42
1:H:510:LEU:CD1	1:H:511:ARG:H	2.25	0.42
1:I:8:LEU:N	1:I:9:PRO:CD	2.82	0.42
1:I:137:THR:CG2	1:I:400:ILE:HG12	2.49	0.42
1:I:158:ILE:O	1:I:160:GLY:N	2.53	0.42
1:I:165:LYS:O	1:I:167:LYS:N	2.49	0.42
1:I:440:ILE:N	1:I:441:PRO:HD2	2.35	0.42
1:I:462:ALA:C	1:I:466:ASN:HB3	2.45	0.42
1:J:147:LYS:O	1:J:150:LEU:HB3	2.20	0.42
1:J:410:GLU:CB	1:J:463:HIS:CD2	3.02	0.42
1:J:462:ALA:C	1:J:466:ASN:HB3	2.45	0.42
1:J:485:GLU:O	1:J:486:ASN:C	2.62	0.42
1:J:509:LEU:O	1:J:509:LEU:HG	2.18	0.42
1:K:72:HIS:C	1:K:74:ALA:H	2.28	0.42
1:K:137:THR:CG2	1:K:400:ILE:HG12	2.49	0.42
1:K:230:ALA:O	1:K:231:LYS:HB2	2.20	0.42
1:K:329:ILE:HG23	1:K:330:LYS:HD3	2.00	0.42
1:K:439:VAL:O	1:K:442:ARG:HB3	2.19	0.42
1:K:462:ALA:C	1:K:466:ASN:HB3	2.45	0.42
1:M:329:ILE:HG23	1:M:330:LYS:HD3	2.00	0.42
1:M:372:THR:HG22	1:M:373:THR:N	2.34	0.42
1:N:174:ILE:O	1:N:178:VAL:N	2.48	0.42
1:N:207:GLU:CA	1:N:369:ILE:HG21	2.46	0.42
1:O:104:LEU:HA	1:O:107:ALA:HB3	2.02	0.42
1:O:141:GLU:HG3	1:O:142:VAL:H	1.85	0.42
1:O:141:GLU:HG3	1:O:142:VAL:HG23	2.02	0.42
1:O:158:ILE:O	1:O:160:GLY:N	2.53	0.42
1:O:180:ALA:CA	1:O:363:LYS:HD2	2.43	0.42
1:O:260:GLU:OE2	1:O:264:GLN:HB3	2.20	0.42
1:O:410:GLU:CB	1:O:463:HIS:CD2	3.02	0.42
1:O:515:VAL:C	1:O:517:ALA:H	2.24	0.42
1:P:6:GLY:O	1:P:7:VAL:HG13	2.19	0.42
1:P:44:MET:O	1:P:46:LYS:HD3	2.19	0.42
1:P:135:LEU:HD11	1:P:493:ARG:NE	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:241:ILE:O	1:P:241:ILE:HG13	2.19	0.42
1:A:180:ALA:CA	1:A:363:LYS:HD2	2.43	0.41
1:A:217:GLU:C	1:A:219:VAL:N	2.75	0.41
1:B:180:ALA:CA	1:B:363:LYS:HD2	2.43	0.41
1:B:241:ILE:O	1:B:241:ILE:HG13	2.19	0.41
1:B:410:GLU:CB	1:B:463:HIS:CD2	3.02	0.41
1:C:117:PRO:HG2	1:C:511:ARG:HD2	2.02	0.41
1:C:131:ALA:O	1:C:134:LEU:HD22	2.20	0.41
1:C:174:ILE:O	1:C:178:VAL:N	2.48	0.41
1:C:345:GLU:O	1:C:353:MET:HB2	2.20	0.41
1:D:57:VAL:HG22	1:D:60:ASP:OD2	2.20	0.41
1:E:104:LEU:HA	1:E:107:ALA:HB3	2.02	0.41
1:E:307:ARG:O	1:E:308:ARG:HG2	2.20	0.41
1:E:403:GLY:HA3	1:E:489:VAL:O	2.20	0.41
1:E:522:ARG:NH1	1:F:54:ASP:N	2.58	0.41
1:F:39:LEU:HD13	1:F:59:ASN:HA	2.01	0.41
1:F:137:THR:CG2	1:F:400:ILE:HG12	2.49	0.41
1:F:230:ALA:O	1:F:231:LYS:HB2	2.20	0.41
1:G:131:ALA:O	1:G:134:LEU:HD22	2.20	0.41
1:G:230:ALA:O	1:G:231:LYS:HB2	2.20	0.41
1:G:307:ARG:O	1:G:308:ARG:HG2	2.20	0.41
1:G:345:GLU:O	1:G:353:MET:HB2	2.20	0.41
1:G:462:ALA:C	1:G:466:ASN:HB3	2.45	0.41
1:H:485:GLU:O	1:H:486:ASN:C	2.62	0.41
1:I:9:PRO:O	1:I:10:GLU:C	2.63	0.41
1:I:192:LEU:HB2	1:I:365:VAL:O	2.19	0.41
1:I:227:VAL:CG2	1:I:303:ILE:HB	2.35	0.41
1:I:230:ALA:O	1:I:231:LYS:HB2	2.20	0.41
1:I:360:LYS:HE3	1:I:360:LYS:HB3	1.96	0.41
1:I:485:GLU:O	1:I:486:ASN:C	2.62	0.41
1:J:230:ALA:O	1:J:231:LYS:HB2	2.20	0.41
1:J:242:LYS:C	1:J:244:THR:N	2.78	0.41
1:J:307:ARG:O	1:J:308:ARG:HG2	2.20	0.41
1:J:417:GLU:O	1:J:420:GLU:HB2	2.20	0.41
1:K:192:LEU:CD2	1:K:363:LYS:HD3	2.49	0.41
1:K:260:GLU:OE2	1:K:264:GLN:HB3	2.20	0.41
1:K:485:GLU:O	1:K:486:ASN:C	2.62	0.41
1:L:104:LEU:HA	1:L:107:ALA:HB3	2.02	0.41
1:L:141:GLU:HG3	1:L:142:VAL:HG23	2.02	0.41
1:L:307:ARG:O	1:L:308:ARG:HG2	2.20	0.41
1:M:47:MET:CB	1:N:512:ILE:HD11	2.48	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:57:VAL:HG22	1:M:60:ASP:OD2	2.20	0.41
1:M:104:LEU:HA	1:M:107:ALA:HB3	2.02	0.41
1:M:165:LYS:O	1:M:167:LYS:N	2.49	0.41
1:M:392:GLY:O	1:M:395:ILE:HG13	2.20	0.41
1:N:103:LEU:CD2	1:N:106:LYS:HB3	2.50	0.41
1:N:117:PRO:HG2	1:N:511:ARG:HD2	2.02	0.41
1:N:137:THR:CG2	1:N:400:ILE:HG12	2.49	0.41
1:N:345:GLU:O	1:N:353:MET:HB2	2.20	0.41
1:O:307:ARG:O	1:O:308:ARG:HG2	2.20	0.41
1:P:158:ILE:O	1:P:160:GLY:N	2.53	0.41
1:P:217:GLU:C	1:P:219:VAL:N	2.75	0.41
1:P:510:LEU:CD1	1:P:511:ARG:H	2.25	0.41
1:A:44:MET:O	1:A:46:LYS:HD3	2.19	0.41
1:A:131:ALA:CA	1:A:134:LEU:HD13	2.44	0.41
1:A:160:GLY:O	1:A:162:GLY:N	2.49	0.41
1:A:372:THR:HG22	1:A:373:THR:H	1.84	0.41
1:A:485:GLU:O	1:A:486:ASN:C	2.62	0.41
1:B:104:LEU:HA	1:B:107:ALA:HB3	2.03	0.41
1:B:260:GLU:OE2	1:B:264:GLN:HB3	2.20	0.41
1:B:394:THR:HG22	1:B:399:ARG:CD	2.50	0.41
1:B:404:GLY:CA	1:B:487:GLY:HA3	2.50	0.41
1:C:57:VAL:HG22	1:C:60:ASP:OD2	2.20	0.41
1:C:137:THR:CG2	1:C:400:ILE:HG12	2.49	0.41
1:D:72:HIS:C	1:D:74:ALA:H	2.28	0.41
1:D:104:LEU:HA	1:D:107:ALA:HB3	2.02	0.41
1:D:345:GLU:O	1:D:353:MET:HB2	2.20	0.41
1:E:103:LEU:CD2	1:E:106:LYS:HB3	2.50	0.41
1:E:347:LYS:HD2	1:E:347:LYS:H	1.84	0.41
1:F:392:GLY:O	1:F:395:ILE:HG13	2.20	0.41
1:G:147:LYS:O	1:G:150:LEU:HB3	2.20	0.41
1:G:242:LYS:C	1:G:244:THR:N	2.79	0.41
1:G:417:GLU:O	1:G:420:GLU:HB2	2.20	0.41
1:H:9:PRO:O	1:H:10:GLU:C	2.63	0.41
1:J:131:ALA:O	1:J:134:LEU:HD22	2.20	0.41
1:J:345:GLU:O	1:J:353:MET:HB2	2.20	0.41
1:K:39:LEU:HD13	1:K:59:ASN:HA	2.01	0.41
1:K:57:VAL:HG21	1:K:63:THR:HG21	2.00	0.41
1:K:392:GLY:O	1:K:395:ILE:HG13	2.20	0.41
1:L:403:GLY:HA3	1:L:489:VAL:O	2.20	0.41
1:L:439:VAL:O	1:L:442:ARG:HB3	2.19	0.41
1:L:500:GLN:HA	1:L:500:GLN:HE21	1.84	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:9:PRO:O	1:M:10:GLU:C	2.63	0.41
1:M:307:ARG:O	1:M:308:ARG:HG2	2.20	0.41
1:M:339:ASP:HB3	1:M:340:ALA:H	1.56	0.41
1:M:345:GLU:O	1:M:353:MET:HB2	2.20	0.41
1:N:57:VAL:HG22	1:N:60:ASP:OD2	2.20	0.41
1:O:8:LEU:N	1:O:9:PRO:CD	2.82	0.41
1:P:117:PRO:HG2	1:P:511:ARG:HD2	2.02	0.41
1:P:141:GLU:HG3	1:P:142:VAL:H	1.85	0.41
1:P:160:GLY:O	1:P:162:GLY:N	2.49	0.41
1:A:72:HIS:C	1:A:74:ALA:H	2.28	0.41
1:A:152:LYS:CB	1:A:174:ILE:HG13	2.38	0.41
1:A:165:LYS:HD2	1:A:169:LYS:N	2.35	0.41
1:A:241:ILE:O	1:A:241:ILE:HG13	2.19	0.41
1:A:307:ARG:O	1:A:308:ARG:HG2	2.20	0.41
1:A:522:ARG:HH12	1:B:54:ASP:H	1.60	0.41
1:B:44:MET:O	1:B:46:LYS:HD3	2.19	0.41
1:B:165:LYS:HD2	1:B:169:LYS:N	2.36	0.41
1:B:515:VAL:C	1:B:517:ALA:H	2.24	0.41
1:C:103:LEU:CD2	1:C:106:LYS:HB3	2.50	0.41
1:C:120:VAL:O	1:C:124:TYR:HD2	2.04	0.41
1:C:160:GLY:O	1:C:162:GLY:N	2.49	0.41
1:C:207:GLU:CA	1:C:369:ILE:HG21	2.46	0.41
1:C:417:GLU:O	1:C:420:GLU:HB2	2.20	0.41
1:C:512:ILE:HD11	1:D:47:MET:CB	2.48	0.41
1:D:9:PRO:O	1:D:10:GLU:C	2.63	0.41
1:D:209:ILE:HB	1:D:368:LEU:O	2.20	0.41
1:D:307:ARG:O	1:D:308:ARG:HG2	2.20	0.41
1:D:462:ALA:C	1:D:466:ASN:HB3	2.45	0.41
1:E:147:LYS:O	1:E:150:LEU:HB3	2.20	0.41
1:E:156:THR:CG2	1:E:170:LEU:HA	2.39	0.41
1:E:242:LYS:C	1:E:244:THR:N	2.78	0.41
1:E:439:VAL:O	1:E:442:ARG:HB3	2.19	0.41
1:E:500:GLN:HA	1:E:500:GLN:HE21	1.84	0.41
1:F:141:GLU:HG3	1:F:142:VAL:HG23	2.02	0.41
1:F:192:LEU:HD11	1:F:363:LYS:HZ3	1.85	0.41
1:F:208:LEU:HD23	1:F:209:ILE:N	2.34	0.41
1:F:326:ILE:HD13	1:F:326:ILE:N	2.21	0.41
1:F:510:LEU:CD1	1:F:511:ARG:H	2.25	0.41
1:G:39:LEU:HD13	1:G:59:ASN:HA	2.02	0.41
1:G:57:VAL:HG21	1:G:63:THR:HG21	2.01	0.41
1:G:117:PRO:HG2	1:G:511:ARG:HD2	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:343:VAL:HG22	1:G:344:GLU:N	2.35	0.41
1:H:135:LEU:HD11	1:H:493:ARG:NE	2.34	0.41
1:H:242:LYS:C	1:H:244:THR:N	2.78	0.41
1:H:417:GLU:O	1:H:420:GLU:HB2	2.20	0.41
1:I:242:LYS:C	1:I:244:THR:N	2.78	0.41
1:I:269:LEU:HA	1:I:269:LEU:HD13	1.80	0.41
1:I:417:GLU:O	1:I:420:GLU:HB2	2.20	0.41
1:J:57:VAL:HG21	1:J:63:THR:HG21	2.01	0.41
1:J:117:PRO:HG2	1:J:511:ARG:HD2	2.02	0.41
1:J:343:VAL:HG22	1:J:344:GLU:N	2.35	0.41
1:K:103:LEU:CD2	1:K:106:LYS:HB3	2.50	0.41
1:K:307:ARG:O	1:K:308:ARG:HG2	2.20	0.41
1:L:103:LEU:CD2	1:L:106:LYS:HB3	2.50	0.41
1:L:250:ILE:HG12	1:M:250:ILE:HG21	2.01	0.41
1:L:404:GLY:CA	1:L:487:GLY:HA3	2.50	0.41
1:M:372:THR:HG22	1:M:373:THR:H	1.85	0.41
1:N:120:VAL:O	1:N:124:TYR:HD2	2.04	0.41
1:N:241:ILE:O	1:N:241:ILE:HG13	2.19	0.41
1:N:417:GLU:O	1:N:420:GLU:HB2	2.20	0.41
1:O:47:MET:CB	1:P:512:ILE:HD11	2.48	0.41
1:O:165:LYS:HD2	1:O:169:LYS:N	2.36	0.41
1:P:440:ILE:N	1:P:441:PRO:HD2	2.35	0.41
1:A:440:ILE:C	1:A:442:ARG:N	2.74	0.41
1:B:11:ASN:ND2	1:B:12:MET:HG2	2.33	0.41
1:B:440:ILE:N	1:B:441:PRO:HD2	2.35	0.41
1:C:9:PRO:O	1:C:10:GLU:C	2.63	0.41
1:C:39:LEU:HD13	1:C:59:ASN:HA	2.02	0.41
1:C:165:LYS:HD2	1:C:169:LYS:N	2.36	0.41
1:C:241:ILE:O	1:C:241:ILE:HG13	2.19	0.41
1:D:190:LYS:HA	1:D:193:ILE:CD1	2.47	0.41
1:D:250:ILE:HG21	1:E:250:ILE:HG12	2.01	0.41
1:D:260:GLU:OE2	1:D:264:GLN:HB3	2.20	0.41
1:D:372:THR:HG22	1:D:373:THR:H	1.85	0.41
1:E:35:VAL:HG23	1:E:36:ARG:N	2.36	0.41
1:E:158:ILE:O	1:E:160:GLY:N	2.53	0.41
1:E:404:GLY:CA	1:E:487:GLY:HA3	2.50	0.41
1:F:103:LEU:CD2	1:F:106:LYS:HB3	2.50	0.41
1:F:104:LEU:HA	1:F:107:ALA:HB3	2.02	0.41
1:F:307:ARG:O	1:F:308:ARG:HG2	2.20	0.41
1:H:57:VAL:HG22	1:H:60:ASP:OD2	2.20	0.41
1:H:171:ALA:HA	1:H:174:ILE:HB	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:57:VAL:HG22	1:I:60:ASP:OD2	2.20	0.41
1:I:171:ALA:HA	1:I:174:ILE:HB	2.01	0.41
1:J:39:LEU:HD13	1:J:59:ASN:HA	2.02	0.41
1:K:70:VAL:CG2	1:K:71:GLU:H	2.18	0.41
1:K:141:GLU:HG3	1:K:142:VAL:HG23	2.02	0.41
1:K:161:LYS:C	1:K:163:ALA:N	2.75	0.41
1:K:208:LEU:HD23	1:K:209:ILE:N	2.34	0.41
1:K:417:GLU:O	1:K:420:GLU:HB2	2.20	0.41
1:L:35:VAL:HG23	1:L:36:ARG:N	2.36	0.41
1:L:147:LYS:O	1:L:150:LEU:HB3	2.20	0.41
1:L:242:LYS:C	1:L:244:THR:N	2.78	0.41
1:L:347:LYS:HD2	1:L:347:LYS:H	1.84	0.41
1:M:72:HIS:C	1:M:74:ALA:H	2.28	0.41
1:M:209:ILE:HB	1:M:368:LEU:O	2.20	0.41
1:M:260:GLU:OE2	1:M:264:GLN:HB3	2.20	0.41
1:M:269:LEU:HD13	1:M:269:LEU:HA	1.80	0.41
1:N:9:PRO:O	1:N:10:GLU:C	2.63	0.41
1:N:147:LYS:O	1:N:150:LEU:HB3	2.20	0.41
1:N:158:ILE:O	1:N:160:GLY:N	2.53	0.41
1:N:160:GLY:O	1:N:162:GLY:N	2.49	0.41
1:N:165:LYS:HD2	1:N:169:LYS:N	2.36	0.41
1:N:392:GLY:O	1:N:395:ILE:HG13	2.20	0.41
1:N:442:ARG:NH2	1:N:456:LEU:HA	2.34	0.41
1:O:44:MET:O	1:O:46:LYS:HD3	2.19	0.41
1:O:462:ALA:C	1:O:466:ASN:HB3	2.45	0.41
1:P:120:VAL:O	1:P:124:TYR:HD2	2.04	0.41
1:P:165:LYS:HD2	1:P:169:LYS:N	2.36	0.41
1:P:307:ARG:O	1:P:308:ARG:HG2	2.20	0.41
1:P:440:ILE:C	1:P:442:ARG:N	2.74	0.41
1:A:120:VAL:O	1:A:124:TYR:HD2	2.04	0.41
1:A:141:GLU:HG3	1:A:142:VAL:HG23	2.02	0.41
1:B:314:MET:HA	1:B:317:LEU:HB3	2.03	0.41
1:C:147:LYS:O	1:C:150:LEU:HB3	2.20	0.41
1:C:158:ILE:O	1:C:160:GLY:N	2.53	0.41
1:C:392:GLY:O	1:C:395:ILE:HG13	2.20	0.41
1:C:442:ARG:NH2	1:C:456:LEU:HA	2.34	0.41
1:D:8:LEU:N	1:D:9:PRO:CD	2.82	0.41
1:D:70:VAL:CG2	1:D:71:GLU:H	2.18	0.41
1:E:117:PRO:HG2	1:E:511:ARG:HD2	2.02	0.41
1:E:450:LEU:HD13	1:I:450:LEU:CD1	2.47	0.41
1:F:141:GLU:CG	1:F:142:VAL:N	2.84	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:417:GLU:O	1:F:420:GLU:HB2	2.20	0.41
1:F:480:VAL:O	1:F:481:GLU:HB2	2.21	0.41
1:G:141:GLU:CG	1:G:142:VAL:N	2.83	0.41
1:G:456:LEU:O	1:G:459:VAL:HG22	2.19	0.41
1:H:104:LEU:HA	1:H:107:ALA:HB3	2.02	0.41
1:H:116:HIS:HA	1:H:117:PRO:HD2	1.93	0.41
1:H:450:LEU:CD1	1:L:450:LEU:HD13	2.47	0.41
1:H:480:VAL:O	1:H:481:GLU:HB2	2.21	0.41
1:I:104:LEU:HA	1:I:107:ALA:HB3	2.02	0.41
1:I:117:PRO:HG2	1:I:511:ARG:HD2	2.03	0.41
1:I:379:GLU:HA	1:I:382:ARG:CD	2.49	0.41
1:J:6:GLY:O	1:J:7:VAL:HG13	2.19	0.41
1:J:29:ARG:HH21	1:J:105:ARG:CG	2.24	0.41
1:J:57:VAL:HG22	1:J:60:ASP:OD2	2.20	0.41
1:J:440:ILE:N	1:J:441:PRO:HD2	2.35	0.41
1:J:442:ARG:NH2	1:J:456:LEU:HA	2.34	0.41
1:J:515:VAL:HG22	1:J:517:ALA:CA	2.51	0.41
1:K:104:LEU:HA	1:K:107:ALA:HB3	2.02	0.41
1:K:480:VAL:O	1:K:481:GLU:HB2	2.21	0.41
1:L:57:VAL:HG22	1:L:60:ASP:OD2	2.20	0.41
1:L:117:PRO:HG2	1:L:511:ARG:HD2	2.02	0.41
1:L:158:ILE:O	1:L:160:GLY:N	2.53	0.41
1:L:209:ILE:HB	1:L:368:LEU:O	2.21	0.41
1:M:120:VAL:O	1:M:124:TYR:HD2	2.04	0.41
1:M:190:LYS:HA	1:M:193:ILE:CD1	2.47	0.41
1:M:208:LEU:HD23	1:M:209:ILE:N	2.34	0.41
1:M:456:LEU:O	1:M:459:VAL:HG22	2.19	0.41
1:M:480:VAL:O	1:M:481:GLU:HB2	2.21	0.41
1:N:39:LEU:HD13	1:N:59:ASN:HA	2.02	0.41
1:O:68:MET:H	1:P:520:LYS:CD	2.32	0.41
1:O:120:VAL:O	1:O:124:TYR:HD2	2.04	0.41
1:O:137:THR:CG2	1:O:400:ILE:HG12	2.49	0.41
1:O:241:ILE:O	1:O:241:ILE:HG13	2.19	0.41
1:O:369:ILE:HG23	1:O:371:GLY:H	1.86	0.41
1:O:440:ILE:N	1:O:441:PRO:HD2	2.35	0.41
1:P:137:THR:CG2	1:P:400:ILE:HG12	2.49	0.41
1:P:141:GLU:HG3	1:P:142:VAL:HG23	2.02	0.41
1:P:152:LYS:CB	1:P:174:ILE:HG13	2.39	0.41
1:P:284:LEU:HD11	1:P:304:VAL:O	2.19	0.41
1:A:137:THR:CG2	1:A:400:ILE:HG12	2.49	0.41
1:A:260:GLU:OE2	1:A:264:GLN:HB3	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:510:LEU:CD1	1:A:511:ARG:H	2.25	0.41
1:A:520:LYS:CD	1:B:68:MET:H	2.32	0.41
1:B:120:VAL:O	1:B:124:TYR:HD2	2.04	0.41
1:B:141:GLU:CG	1:B:142:VAL:N	2.83	0.41
1:B:227:VAL:CG2	1:B:303:ILE:HB	2.35	0.41
1:B:500:GLN:HA	1:B:500:GLN:HE21	1.84	0.41
1:C:147:LYS:H	1:C:147:LYS:CD	2.33	0.41
1:C:307:ARG:O	1:C:308:ARG:HG2	2.20	0.41
1:C:319:LYS:C	1:C:321:THR:N	2.76	0.41
1:C:343:VAL:HG22	1:C:344:GLU:N	2.35	0.41
1:C:456:LEU:O	1:C:459:VAL:HG22	2.19	0.41
1:D:117:PRO:HG2	1:D:511:ARG:HD2	2.03	0.41
1:D:120:VAL:O	1:D:124:TYR:HD2	2.04	0.41
1:D:208:LEU:HD23	1:D:209:ILE:N	2.34	0.41
1:D:242:LYS:C	1:D:244:THR:N	2.78	0.41
1:D:456:LEU:O	1:D:459:VAL:HG22	2.19	0.41
1:D:480:VAL:O	1:D:481:GLU:HB2	2.21	0.41
1:E:57:VAL:HG22	1:E:60:ASP:OD2	2.20	0.41
1:E:209:ILE:HB	1:E:368:LEU:O	2.21	0.41
1:F:343:VAL:HG22	1:F:344:GLU:N	2.35	0.41
1:F:450:LEU:HD13	1:J:450:LEU:CD1	2.47	0.41
1:G:57:VAL:HG22	1:G:60:ASP:OD2	2.20	0.41
1:G:440:ILE:N	1:G:441:PRO:HD2	2.35	0.41
1:G:442:ARG:NH2	1:G:456:LEU:HA	2.34	0.41
1:G:515:VAL:HG22	1:G:517:ALA:CA	2.51	0.41
1:H:39:LEU:HD13	1:H:59:ASN:HA	2.01	0.41
1:H:269:LEU:HA	1:H:269:LEU:HD13	1.80	0.41
1:H:307:ARG:O	1:H:308:ARG:HG2	2.20	0.41
1:H:339:ASP:HB3	1:H:340:ALA:H	1.56	0.41
1:I:103:LEU:HD23	1:I:436:ALA:CB	2.37	0.41
1:I:135:LEU:HD11	1:I:493:ARG:NE	2.35	0.41
1:I:480:VAL:O	1:I:481:GLU:HB2	2.21	0.41
1:J:104:LEU:HA	1:J:107:ALA:HB3	2.02	0.41
1:J:141:GLU:CG	1:J:142:VAL:N	2.83	0.41
1:J:260:GLU:OE2	1:J:264:GLN:HB3	2.20	0.41
1:J:456:LEU:O	1:J:459:VAL:HG22	2.19	0.41
1:K:141:GLU:CG	1:K:142:VAL:N	2.84	0.41
1:K:343:VAL:HG22	1:K:344:GLU:N	2.35	0.41
1:L:510:LEU:CD1	1:L:511:ARG:H	2.25	0.41
1:M:117:PRO:HG2	1:M:511:ARG:HD2	2.03	0.41
1:M:347:LYS:CG	1:N:187:LYS:HZ2	2.14	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:462:ALA:C	1:M:466:ASN:HB3	2.45	0.41
1:N:147:LYS:H	1:N:147:LYS:CD	2.33	0.41
1:N:307:ARG:O	1:N:308:ARG:HG2	2.20	0.41
1:N:319:LYS:C	1:N:321:THR:N	2.76	0.41
1:N:509:LEU:O	1:N:509:LEU:HG	2.18	0.41
1:O:11:ASN:ND2	1:O:12:MET:HG2	2.33	0.41
1:O:209:ILE:HB	1:O:368:LEU:O	2.20	0.41
1:P:392:GLY:O	1:P:395:ILE:HG13	2.20	0.41
1:P:442:ARG:NH2	1:P:456:LEU:HA	2.34	0.41
1:A:230:ALA:O	1:A:231:LYS:HB2	2.20	0.41
1:B:343:VAL:HG22	1:B:344:GLU:N	2.35	0.41
1:C:110:LEU:CG	1:C:111:LEU:H	2.34	0.41
1:C:170:LEU:HD23	1:C:171:ALA:N	2.36	0.41
1:C:209:ILE:HB	1:C:368:LEU:O	2.21	0.41
1:E:9:PRO:O	1:E:10:GLU:C	2.63	0.41
1:E:141:GLU:CG	1:E:142:VAL:N	2.83	0.41
1:F:117:PRO:HG2	1:F:511:ARG:HD2	2.03	0.41
1:G:6:GLY:O	1:G:7:VAL:HG13	2.19	0.41
1:G:29:ARG:HH21	1:G:105:ARG:CG	2.24	0.41
1:G:104:LEU:HA	1:G:107:ALA:HB3	2.02	0.41
1:G:260:GLU:OE2	1:G:264:GLN:HB3	2.20	0.41
1:G:276:ILE:HD12	1:G:276:ILE:HA	1.94	0.41
1:G:450:LEU:CD1	1:K:450:LEU:HD13	2.47	0.41
1:H:379:GLU:HA	1:H:382:ARG:CD	2.49	0.41
1:H:500:GLN:HA	1:H:500:GLN:HE21	1.84	0.41
1:I:29:ARG:HH21	1:I:105:ARG:CG	2.23	0.41
1:I:500:GLN:HA	1:I:500:GLN:HE21	1.84	0.41
1:J:49:VAL:CG1	1:K:13:LYS:HD3	2.38	0.41
1:K:117:PRO:HG2	1:K:511:ARG:HD2	2.03	0.41
1:L:120:VAL:O	1:L:124:TYR:HD2	2.04	0.41
1:L:156:THR:CG2	1:L:170:LEU:HA	2.39	0.41
1:L:462:ALA:C	1:L:466:ASN:HB3	2.45	0.41
1:M:343:VAL:HG22	1:M:344:GLU:N	2.35	0.41
1:M:417:GLU:O	1:M:420:GLU:HB2	2.20	0.41
1:N:110:LEU:CG	1:N:111:LEU:H	2.34	0.41
1:N:170:LEU:HD23	1:N:171:ALA:N	2.36	0.41
1:N:209:ILE:HB	1:N:368:LEU:O	2.21	0.41
1:N:343:VAL:HG22	1:N:344:GLU:N	2.35	0.41
1:O:141:GLU:CG	1:O:142:VAL:N	2.84	0.41
1:O:314:MET:HA	1:O:317:LEU:HB3	2.03	0.41
1:O:500:GLN:HA	1:O:500:GLN:HE21	1.84	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:510:LEU:CD1	1:O:511:ARG:H	2.25	0.41
1:P:260:GLU:OE2	1:P:264:GLN:HB3	2.20	0.41
1:P:326:ILE:HD13	1:P:326:ILE:N	2.21	0.41
1:P:372:THR:HG22	1:P:373:THR:H	1.85	0.41
1:A:392:GLY:O	1:A:395:ILE:HG13	2.20	0.41
1:A:417:GLU:O	1:A:420:GLU:HB2	2.20	0.41
1:A:442:ARG:NH2	1:A:456:LEU:HA	2.34	0.41
1:A:480:VAL:O	1:A:481:GLU:HB2	2.21	0.41
1:B:9:PRO:O	1:B:10:GLU:C	2.63	0.41
1:B:103:LEU:HD23	1:B:436:ALA:CB	2.37	0.41
1:B:117:PRO:HG2	1:B:511:ARG:HD2	2.03	0.41
1:B:170:LEU:HD23	1:B:171:ALA:N	2.36	0.41
1:B:209:ILE:HB	1:B:368:LEU:O	2.21	0.41
1:B:345:GLU:O	1:B:353:MET:HB2	2.20	0.41
1:B:462:ALA:C	1:B:466:ASN:HB3	2.45	0.41
1:C:509:LEU:O	1:C:509:LEU:HG	2.18	0.41
1:D:343:VAL:HG22	1:D:344:GLU:N	2.35	0.41
1:D:369:ILE:HG23	1:D:371:GLY:H	1.86	0.41
1:E:120:VAL:O	1:E:124:TYR:HD2	2.04	0.41
1:E:210:LYS:CG	1:E:211:GLY:N	2.84	0.41
1:E:450:LEU:CD1	1:I:450:LEU:HD13	2.47	0.41
1:E:462:ALA:C	1:E:466:ASN:HB3	2.45	0.41
1:E:512:ILE:HD11	1:F:47:MET:CB	2.48	0.41
1:F:515:VAL:HG22	1:F:517:ALA:CA	2.51	0.41
1:H:103:LEU:HD23	1:H:436:ALA:CB	2.37	0.41
1:H:109:GLU:O	1:H:110:LEU:C	2.64	0.41
1:H:117:PRO:HG2	1:H:511:ARG:HD2	2.03	0.41
1:H:392:GLY:O	1:H:395:ILE:HG13	2.20	0.41
1:H:436:ALA:CA	1:H:439:VAL:HG22	2.46	0.41
1:I:39:LEU:HD13	1:I:59:ASN:HA	2.01	0.41
1:I:109:GLU:O	1:I:110:LEU:C	2.64	0.41
1:I:116:HIS:HA	1:I:117:PRO:HD2	1.93	0.41
1:I:307:ARG:O	1:I:308:ARG:HG2	2.20	0.41
1:I:314:MET:HA	1:I:317:LEU:HB3	2.03	0.41
1:I:339:ASP:HB3	1:I:340:ALA:H	1.56	0.41
1:I:392:GLY:O	1:I:395:ILE:HG13	2.20	0.41
1:I:515:VAL:HG22	1:I:517:ALA:CA	2.51	0.41
1:J:276:ILE:HD12	1:J:276:ILE:HA	1.94	0.41
1:J:403:GLY:HA3	1:J:489:VAL:O	2.20	0.41
1:K:173:ILE:HG13	1:K:384:VAL:CG2	2.50	0.41
1:K:326:ILE:HD13	1:K:326:ILE:N	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:515:VAL:HG22	1:K:517:ALA:CA	2.51	0.41
1:L:9:PRO:O	1:L:10:GLU:C	2.63	0.41
1:L:141:GLU:CG	1:L:142:VAL:N	2.83	0.41
1:L:210:LYS:CG	1:L:211:GLY:N	2.84	0.41
1:L:213:LEU:N	1:L:366:THR:OG1	2.54	0.41
1:L:230:ALA:O	1:L:231:LYS:HB2	2.20	0.41
1:L:343:VAL:HG22	1:L:344:GLU:N	2.35	0.41
1:M:8:LEU:N	1:M:9:PRO:CD	2.82	0.41
1:M:70:VAL:CG2	1:M:71:GLU:H	2.18	0.41
1:M:242:LYS:C	1:M:244:THR:N	2.78	0.41
1:M:258:LEU:CD2	1:N:251:ARG:HH11	2.23	0.41
1:M:440:ILE:N	1:M:441:PRO:HD2	2.35	0.41
1:N:450:LEU:HD12	1:N:450:LEU:HA	1.77	0.41
1:N:456:LEU:O	1:N:459:VAL:HG22	2.19	0.41
1:N:520:LYS:H	1:N:520:LYS:HD3	1.77	0.41
1:O:49:VAL:CG1	1:P:13:LYS:HD3	2.38	0.41
1:O:117:PRO:HG2	1:O:511:ARG:HD2	2.03	0.41
1:O:154:ALA:CB	1:O:488:VAL:HG13	2.49	0.41
1:O:227:VAL:CG2	1:O:303:ILE:HB	2.35	0.41
1:O:343:VAL:HG22	1:O:344:GLU:N	2.35	0.41
1:O:345:GLU:O	1:O:353:MET:HB2	2.20	0.41
1:O:392:GLY:O	1:O:395:ILE:HG13	2.20	0.41
1:P:42:LYS:HZ1	1:P:446:GLU:HA	1.85	0.41
1:P:192:LEU:HD11	1:P:363:LYS:HZ3	1.86	0.41
1:P:480:VAL:O	1:P:481:GLU:HB2	2.21	0.41
1:A:42:LYS:HZ1	1:A:446:GLU:HA	1.85	0.41
1:A:104:LEU:HA	1:A:107:ALA:HB3	2.03	0.41
1:A:188:VAL:HG21	1:B:225:LYS:HZ2	1.84	0.41
1:A:192:LEU:HD11	1:A:363:LYS:HZ3	1.86	0.41
1:A:227:VAL:CG2	1:A:303:ILE:HB	2.35	0.41
1:A:314:MET:HA	1:A:317:LEU:HB3	2.03	0.41
1:A:326:ILE:HD13	1:A:326:ILE:N	2.21	0.41
1:B:65:LEU:HB3	1:B:79:ILE:HG23	2.03	0.41
1:B:93:THR:O	1:B:97:VAL:HG23	2.21	0.41
1:B:110:LEU:CG	1:B:111:LEU:H	2.34	0.41
1:B:154:ALA:CB	1:B:488:VAL:HG13	2.49	0.41
1:B:369:ILE:HG23	1:B:371:GLY:H	1.86	0.41
1:C:48:LEU:HD13	1:C:48:LEU:N	2.27	0.41
1:C:72:HIS:C	1:C:74:ALA:H	2.28	0.41
1:C:119:ILE:CD1	1:C:425:ARG:HB2	2.51	0.41
1:C:141:GLU:CG	1:C:142:VAL:N	2.83	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:369:ILE:HG23	1:C:371:GLY:H	1.86	0.41
1:C:436:ALA:CA	1:C:439:VAL:HG22	2.46	0.41
1:C:440:ILE:N	1:C:441:PRO:HD2	2.35	0.41
1:C:480:VAL:O	1:C:481:GLU:HB2	2.21	0.41
1:D:213:LEU:N	1:D:366:THR:OG1	2.54	0.41
1:D:230:ALA:O	1:D:231:LYS:HB2	2.20	0.41
1:D:339:ASP:HB3	1:D:340:ALA:H	1.56	0.41
1:D:417:GLU:O	1:D:420:GLU:HB2	2.20	0.41
1:D:440:ILE:N	1:D:441:PRO:HD2	2.35	0.41
1:E:154:ALA:CB	1:E:488:VAL:HG22	2.51	0.41
1:E:213:LEU:N	1:E:366:THR:OG1	2.54	0.41
1:E:230:ALA:O	1:E:231:LYS:HB2	2.20	0.41
1:E:343:VAL:HG22	1:E:344:GLU:N	2.35	0.41
1:E:392:GLY:O	1:E:395:ILE:HG13	2.20	0.41
1:E:417:GLU:O	1:E:420:GLU:HB2	2.20	0.41
1:E:442:ARG:O	1:E:442:ARG:HD3	2.21	0.41
1:E:510:LEU:CD1	1:E:511:ARG:H	2.25	0.41
1:E:515:VAL:HG22	1:E:517:ALA:CA	2.51	0.41
1:F:8:LEU:N	1:F:9:PRO:CD	2.82	0.41
1:F:173:ILE:HG13	1:F:384:VAL:CG2	2.50	0.41
1:F:440:ILE:N	1:F:441:PRO:HD2	2.35	0.41
1:F:500:GLN:HA	1:F:500:GLN:HE21	1.84	0.41
1:G:41:PRO:CB	1:G:444:LEU:HD21	2.51	0.41
1:G:141:GLU:HG3	1:G:142:VAL:HG23	2.02	0.41
1:G:314:MET:HA	1:G:317:LEU:HB3	2.03	0.41
1:G:403:GLY:HA3	1:G:489:VAL:O	2.20	0.41
1:G:480:VAL:CG1	1:G:481:GLU:H	2.17	0.41
1:H:93:THR:O	1:H:97:VAL:HG23	2.21	0.41
1:H:141:GLU:HG3	1:H:142:VAL:H	1.85	0.41
1:H:144:ALA:HB2	1:H:400:ILE:CG1	2.22	0.41
1:H:165:LYS:HD2	1:H:169:LYS:N	2.36	0.41
1:H:314:MET:HA	1:H:317:LEU:HB3	2.03	0.41
1:H:450:LEU:HD13	1:L:450:LEU:CD1	2.47	0.41
1:H:515:VAL:HG22	1:H:517:ALA:CA	2.51	0.41
1:I:93:THR:O	1:I:97:VAL:HG23	2.21	0.41
1:I:144:ALA:HB2	1:I:400:ILE:CG1	2.22	0.41
1:I:154:ALA:CB	1:I:488:VAL:HG13	2.49	0.41
1:J:41:PRO:CB	1:J:444:LEU:HD21	2.51	0.41
1:J:141:GLU:HG3	1:J:142:VAL:HG23	2.02	0.41
1:K:41:PRO:CB	1:K:444:LEU:HD21	2.51	0.41
1:K:47:MET:CB	1:L:512:ILE:HD11	2.48	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:440:ILE:N	1:K:441:PRO:HD2	2.35	0.41
1:K:500:GLN:HA	1:K:500:GLN:HE21	1.84	0.41
1:L:54:ASP:N	1:M:522:ARG:NH1	2.58	0.41
1:L:154:ALA:CB	1:L:488:VAL:HG22	2.51	0.41
1:L:392:GLY:O	1:L:395:ILE:HG13	2.20	0.41
1:L:442:ARG:O	1:L:442:ARG:HD3	2.21	0.41
1:L:515:VAL:HG22	1:L:517:ALA:CA	2.51	0.41
1:M:165:LYS:HD2	1:M:169:LYS:N	2.36	0.41
1:M:210:LYS:CG	1:M:211:GLY:N	2.84	0.41
1:M:213:LEU:N	1:M:366:THR:OG1	2.54	0.41
1:M:230:ALA:O	1:M:231:LYS:HB2	2.20	0.41
1:M:369:ILE:HG23	1:M:371:GLY:H	1.86	0.41
1:N:141:GLU:HG3	1:N:142:VAL:H	1.85	0.41
1:N:369:ILE:HG23	1:N:371:GLY:H	1.86	0.41
1:N:440:ILE:N	1:N:441:PRO:HD2	2.35	0.41
1:N:442:ARG:O	1:N:442:ARG:HD3	2.21	0.41
1:N:480:VAL:O	1:N:481:GLU:HB2	2.21	0.41
1:N:510:LEU:CD1	1:N:511:ARG:H	2.25	0.41
1:O:9:PRO:O	1:O:10:GLU:C	2.63	0.41
1:O:54:ASP:H	1:P:522:ARG:HH12	1.61	0.41
1:O:65:LEU:HB3	1:O:79:ILE:HG23	2.03	0.41
1:O:110:LEU:CG	1:O:111:LEU:H	2.34	0.41
1:O:170:LEU:HD23	1:O:171:ALA:N	2.36	0.41
1:O:225:LYS:HZ2	1:P:188:VAL:HG21	1.84	0.41
1:P:29:ARG:HH21	1:P:105:ARG:CG	2.24	0.41
1:P:227:VAL:CG2	1:P:303:ILE:HB	2.35	0.41
1:P:230:ALA:O	1:P:231:LYS:HB2	2.20	0.41
1:P:417:GLU:O	1:P:420:GLU:HB2	2.20	0.41
1:A:29:ARG:HH21	1:A:105:ARG:CG	2.23	0.41
1:A:93:THR:O	1:A:97:VAL:HG23	2.21	0.41
1:A:203:ILE:CG2	1:A:204:ASP:N	2.66	0.41
1:A:450:LEU:CD1	1:M:450:LEU:HD13	2.48	0.41
1:B:137:THR:CG2	1:B:400:ILE:HG12	2.49	0.41
1:B:510:LEU:CD1	1:B:511:ARG:H	2.25	0.41
1:C:141:GLU:HG3	1:C:142:VAL:H	1.85	0.41
1:C:260:GLU:OE2	1:C:264:GLN:HB3	2.20	0.41
1:C:442:ARG:O	1:C:442:ARG:HD3	2.21	0.41
1:D:165:LYS:HD2	1:D:169:LYS:N	2.36	0.41
1:D:210:LYS:CG	1:D:211:GLY:N	2.84	0.41
1:E:317:LEU:C	1:E:319:LYS:N	2.79	0.41
1:F:41:PRO:CB	1:F:444:LEU:HD21	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:213:LEU:C	1:F:215:ASP:H	2.27	0.41
1:F:213:LEU:N	1:F:366:THR:OG1	2.54	0.41
1:G:109:GLU:O	1:G:110:LEU:C	2.64	0.41
1:G:165:LYS:HD2	1:G:169:LYS:N	2.36	0.41
1:G:213:LEU:N	1:G:366:THR:OG1	2.54	0.41
1:H:29:ARG:HH21	1:H:105:ARG:CG	2.24	0.41
1:H:120:VAL:O	1:H:124:TYR:HD2	2.04	0.41
1:H:141:GLU:CG	1:H:142:VAL:N	2.84	0.41
1:H:154:ALA:CB	1:H:488:VAL:HG13	2.49	0.41
1:I:120:VAL:O	1:I:124:TYR:HD2	2.04	0.41
1:I:141:GLU:HG3	1:I:142:VAL:H	1.85	0.41
1:I:141:GLU:CG	1:I:142:VAL:N	2.84	0.41
1:I:165:LYS:HD2	1:I:169:LYS:N	2.36	0.41
1:I:436:ALA:CA	1:I:439:VAL:HG22	2.46	0.41
1:J:109:GLU:O	1:J:110:LEU:C	2.64	0.41
1:J:213:LEU:N	1:J:366:THR:OG1	2.54	0.41
1:J:314:MET:HA	1:J:317:LEU:HB3	2.03	0.41
1:K:8:LEU:N	1:K:9:PRO:CD	2.82	0.41
1:K:35:VAL:HG23	1:K:36:ARG:N	2.36	0.41
1:K:197:LYS:HD3	1:K:197:LYS:HA	1.90	0.41
1:K:213:LEU:C	1:K:215:ASP:H	2.27	0.41
1:L:317:LEU:C	1:L:319:LYS:N	2.79	0.41
1:L:417:GLU:O	1:L:420:GLU:HB2	2.20	0.41
1:L:440:ILE:N	1:L:441:PRO:HD2	2.35	0.41
1:M:65:LEU:HB3	1:M:79:ILE:HG23	2.03	0.41
1:M:158:ILE:O	1:M:160:GLY:N	2.53	0.41
1:M:197:LYS:HD3	1:M:197:LYS:HA	1.90	0.41
1:M:419:ALA:HA	1:M:428:LEU:CD2	2.47	0.41
1:M:510:LEU:CD1	1:M:511:ARG:H	2.25	0.41
1:N:72:HIS:C	1:N:74:ALA:H	2.28	0.41
1:N:119:ILE:CD1	1:N:425:ARG:HB2	2.51	0.41
1:N:141:GLU:CG	1:N:142:VAL:N	2.83	0.41
1:N:230:ALA:O	1:N:231:LYS:HB2	2.20	0.41
1:N:436:ALA:CA	1:N:439:VAL:HG22	2.46	0.41
1:O:93:THR:O	1:O:97:VAL:HG23	2.21	0.41
1:O:103:LEU:HD23	1:O:436:ALA:CB	2.37	0.41
1:O:173:ILE:HG13	1:O:384:VAL:CG2	2.50	0.41
1:P:57:VAL:HG22	1:P:60:ASP:OD2	2.20	0.41
1:P:332:LEU:HD13	1:P:332:LEU:HA	1.76	0.41
1:A:154:ALA:CB	1:A:488:VAL:HG13	2.49	0.40
1:A:209:ILE:HB	1:A:368:LEU:O	2.20	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:213:LEU:N	1:B:366:THR:OG1	2.54	0.40
1:B:230:ALA:O	1:B:231:LYS:HB2	2.20	0.40
1:C:130:LYS:HD3	1:C:130:LYS:HA	1.88	0.40
1:C:230:ALA:O	1:C:231:LYS:HB2	2.20	0.40
1:C:251:ARG:HH11	1:D:258:LEU:CD2	2.23	0.40
1:D:65:LEU:HB3	1:D:79:ILE:HG23	2.03	0.40
1:D:158:ILE:O	1:D:160:GLY:N	2.53	0.40
1:D:197:LYS:HD3	1:D:197:LYS:HA	1.90	0.40
1:D:298:LEU:HD12	1:D:298:LEU:HA	1.87	0.40
1:E:440:ILE:N	1:E:441:PRO:HD2	2.35	0.40
1:F:13:LYS:HD3	1:G:49:VAL:CG1	2.38	0.40
1:F:35:VAL:HG23	1:F:36:ARG:N	2.36	0.40
1:F:119:ILE:CD1	1:F:425:ARG:HB2	2.51	0.40
1:F:369:ILE:HD12	1:F:369:ILE:HA	1.93	0.40
1:G:192:LEU:HD11	1:G:363:LYS:NZ	2.37	0.40
1:H:213:LEU:N	1:H:366:THR:OG1	2.54	0.40
1:H:236:ASN:HA	1:H:285:PHE:O	2.21	0.40
1:H:345:GLU:O	1:H:353:MET:HB2	2.20	0.40
1:I:187:LYS:NZ	1:P:347:LYS:HZ3	2.18	0.40
1:I:236:ASN:HA	1:I:285:PHE:O	2.21	0.40
1:I:343:VAL:HG22	1:I:344:GLU:N	2.35	0.40
1:J:165:LYS:HD2	1:J:169:LYS:N	2.36	0.40
1:J:192:LEU:HD11	1:J:363:LYS:NZ	2.37	0.40
1:K:119:ILE:CD1	1:K:425:ARG:HB2	2.51	0.40
1:K:180:ALA:CA	1:K:363:LYS:HD2	2.43	0.40
1:K:213:LEU:N	1:K:366:THR:OG1	2.54	0.40
1:K:255:PRO:CD	1:L:252:ILE:HA	2.48	0.40
1:L:260:GLU:OE2	1:L:264:GLN:HB3	2.20	0.40
1:L:314:MET:O	1:L:317:LEU:HB3	2.21	0.40
1:M:154:ALA:CB	1:M:488:VAL:HG22	2.51	0.40
1:M:225:LYS:HZ2	1:N:188:VAL:HG21	1.85	0.40
1:N:48:LEU:HD13	1:N:48:LEU:N	2.27	0.40
1:N:236:ASN:HA	1:N:285:PHE:O	2.21	0.40
1:O:213:LEU:N	1:O:366:THR:OG1	2.54	0.40
1:O:230:ALA:O	1:O:231:LYS:HB2	2.20	0.40
1:O:417:GLU:O	1:O:420:GLU:HB2	2.20	0.40
1:A:170:LEU:HD23	1:A:171:ALA:N	2.36	0.40
1:A:216:LYS:HA	1:A:354:ILE:HG21	2.03	0.40
1:A:347:LYS:HZ3	1:H:187:LYS:NZ	2.18	0.40
1:B:236:ASN:HA	1:B:285:PHE:O	2.21	0.40
1:B:417:GLU:O	1:B:420:GLU:HB2	2.20	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:197:LYS:CD	1:C:369:ILE:HG22	2.52	0.40
1:C:394:THR:HB	1:C:491:PRO:CB	2.48	0.40
1:C:520:LYS:H	1:C:520:LYS:HD3	1.77	0.40
1:D:57:VAL:CG1	1:D:63:THR:HG21	2.36	0.40
1:D:154:ALA:CB	1:D:488:VAL:HG22	2.51	0.40
1:D:314:MET:O	1:D:317:LEU:HB3	2.22	0.40
1:D:512:ILE:HD11	1:E:47:MET:CB	2.48	0.40
1:E:252:ILE:HA	1:F:255:PRO:CD	2.48	0.40
1:E:260:GLU:OE2	1:E:264:GLN:HB3	2.20	0.40
1:E:314:MET:O	1:E:317:LEU:HB3	2.21	0.40
1:F:122:LYS:HE3	1:F:122:LYS:HB3	1.87	0.40
1:F:197:LYS:HD3	1:F:197:LYS:HA	1.90	0.40
1:G:187:LYS:NZ	1:H:347:LYS:HZ3	2.18	0.40
1:G:287:GLN:NE2	1:G:287:GLN:H	2.20	0.40
1:G:480:VAL:O	1:G:481:GLU:HB2	2.21	0.40
1:H:35:VAL:HG23	1:H:36:ARG:N	2.36	0.40
1:H:137:THR:CG2	1:H:400:ILE:HG12	2.49	0.40
1:H:141:GLU:HG3	1:H:142:VAL:HG23	2.02	0.40
1:H:276:ILE:HD12	1:H:276:ILE:HA	1.94	0.40
1:H:347:LYS:N	1:H:353:MET:SD	2.86	0.40
1:I:35:VAL:HG23	1:I:36:ARG:N	2.36	0.40
1:I:190:LYS:HA	1:I:193:ILE:CD1	2.47	0.40
1:I:213:LEU:N	1:I:366:THR:OG1	2.54	0.40
1:J:287:GLN:NE2	1:J:287:GLN:H	2.20	0.40
1:J:480:VAL:O	1:J:481:GLU:HB2	2.21	0.40
1:K:209:ILE:HB	1:K:368:LEU:O	2.20	0.40
1:K:314:MET:HA	1:K:317:LEU:HB3	2.03	0.40
1:L:47:MET:CB	1:M:512:ILE:HD11	2.48	0.40
1:M:314:MET:O	1:M:317:LEU:HB3	2.22	0.40
1:N:146:ASP:OD1	1:N:150:LEU:HG	2.22	0.40
1:N:197:LYS:CD	1:N:369:ILE:HG22	2.52	0.40
1:N:213:LEU:N	1:N:366:THR:OG1	2.54	0.40
1:N:260:GLU:OE2	1:N:264:GLN:HB3	2.20	0.40
1:O:29:ARG:HH21	1:O:105:ARG:CG	2.23	0.40
1:O:35:VAL:HG23	1:O:36:ARG:N	2.36	0.40
1:O:57:VAL:HG22	1:O:60:ASP:OD2	2.20	0.40
1:O:160:GLY:O	1:O:162:GLY:N	2.49	0.40
1:O:480:VAL:O	1:O:481:GLU:HB2	2.21	0.40
1:P:103:LEU:HD23	1:P:436:ALA:CB	2.37	0.40
1:A:65:LEU:HB3	1:A:79:ILE:HG23	2.03	0.40
1:A:213:LEU:N	1:A:366:THR:OG1	2.54	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:35:VAL:HG23	1:B:36:ARG:N	2.36	0.40
1:B:57:VAL:HG22	1:B:60:ASP:OD2	2.20	0.40
1:B:154:ALA:CB	1:B:488:VAL:HG22	2.51	0.40
1:B:173:ILE:HG13	1:B:384:VAL:CG2	2.51	0.40
1:B:203:ILE:CG2	1:B:204:ASP:N	2.66	0.40
1:B:216:LYS:HA	1:B:354:ILE:HG21	2.04	0.40
1:B:436:ALA:CA	1:B:439:VAL:HG22	2.46	0.40
1:C:146:ASP:OD1	1:C:150:LEU:HG	2.22	0.40
1:C:213:LEU:N	1:C:366:THR:OG1	2.54	0.40
1:C:236:ASN:HA	1:C:285:PHE:O	2.21	0.40
1:D:146:ASP:OD1	1:D:150:LEU:HG	2.22	0.40
1:D:216:LYS:HA	1:D:354:ILE:HG21	2.04	0.40
1:D:419:ALA:HA	1:D:428:LEU:CD2	2.47	0.40
1:D:450:LEU:HD13	1:P:450:LEU:CD1	2.47	0.40
1:F:93:THR:O	1:F:97:VAL:HG23	2.21	0.40
1:F:314:MET:SD	1:F:314:MET:N	2.95	0.40
1:F:314:MET:HA	1:F:317:LEU:HB3	2.03	0.40
1:G:314:MET:O	1:G:317:LEU:HB3	2.21	0.40
1:H:154:ALA:CB	1:H:488:VAL:HG22	2.51	0.40
1:H:190:LYS:HA	1:H:193:ILE:CD1	2.47	0.40
1:H:295:GLN:O	1:H:299:ALA:N	2.55	0.40
1:H:343:VAL:HG22	1:H:344:GLU:N	2.35	0.40
1:I:57:VAL:CG1	1:I:63:THR:HG21	2.36	0.40
1:I:141:GLU:HG3	1:I:142:VAL:HG23	2.02	0.40
1:I:154:ALA:CB	1:I:488:VAL:HG22	2.51	0.40
1:I:276:ILE:HD12	1:I:276:ILE:HA	1.94	0.40
1:I:295:GLN:O	1:I:299:ALA:N	2.55	0.40
1:I:345:GLU:O	1:I:353:MET:HB2	2.20	0.40
1:J:369:ILE:HG23	1:J:371:GLY:H	1.86	0.40
1:K:93:THR:O	1:K:97:VAL:HG23	2.21	0.40
1:K:314:MET:SD	1:K:314:MET:N	2.95	0.40
1:K:314:MET:O	1:K:317:LEU:HB3	2.22	0.40
1:K:369:ILE:HD12	1:K:369:ILE:HA	1.93	0.40
1:L:314:MET:SD	1:L:314:MET:N	2.95	0.40
1:L:332:LEU:HD13	1:L:332:LEU:HA	1.76	0.40
1:L:480:VAL:O	1:L:481:GLU:HB2	2.21	0.40
1:M:57:VAL:CG1	1:M:63:THR:HG21	2.36	0.40
1:M:146:ASP:OD1	1:M:150:LEU:HG	2.22	0.40
1:M:216:LYS:HA	1:M:354:ILE:HG21	2.04	0.40
1:M:298:LEU:HD12	1:M:298:LEU:HA	1.87	0.40
1:N:154:ALA:CB	1:N:488:VAL:HG22	2.51	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:190:LYS:HA	1:N:193:ILE:CD1	2.47	0.40
1:O:53:GLY:C	1:P:522:ARG:HH12	2.28	0.40
1:O:72:HIS:C	1:O:74:ALA:H	2.28	0.40
1:O:146:ASP:OD1	1:O:150:LEU:HG	2.22	0.40
1:O:236:ASN:HA	1:O:285:PHE:O	2.21	0.40
1:P:93:THR:O	1:P:97:VAL:HG23	2.21	0.40
1:P:109:GLU:O	1:P:110:LEU:C	2.64	0.40
1:P:203:ILE:CG2	1:P:204:ASP:N	2.66	0.40
1:P:213:LEU:N	1:P:366:THR:OG1	2.54	0.40
1:P:287:GLN:NE2	1:P:287:GLN:H	2.20	0.40
1:P:314:MET:HA	1:P:317:LEU:HB3	2.03	0.40
1:P:500:GLN:HA	1:P:500:GLN:HE21	1.84	0.40
1:A:9:PRO:O	1:A:10:GLU:C	2.63	0.40
1:A:57:VAL:HG22	1:A:60:ASP:OD2	2.21	0.40
1:A:109:GLU:O	1:A:110:LEU:C	2.64	0.40
1:A:196:GLU:HB3	1:A:197:LYS:H	1.64	0.40
1:A:197:LYS:CD	1:A:369:ILE:HG22	2.52	0.40
1:A:287:GLN:NE2	1:A:287:GLN:H	2.20	0.40
1:A:369:ILE:HD12	1:A:369:ILE:HA	1.93	0.40
1:B:146:ASP:OD1	1:B:150:LEU:HG	2.22	0.40
1:B:160:GLY:O	1:B:162:GLY:N	2.49	0.40
1:B:490:GLU:CA	1:B:491:PRO:C	2.95	0.40
1:B:517:ALA:CB	1:C:49:VAL:HG23	2.39	0.40
1:C:154:ALA:CB	1:C:488:VAL:HG22	2.51	0.40
1:C:190:LYS:HA	1:C:193:ILE:CD1	2.47	0.40
1:C:216:LYS:HA	1:C:354:ILE:HG21	2.04	0.40
1:C:510:LEU:CD1	1:C:511:ARG:H	2.25	0.40
1:D:35:VAL:HG23	1:D:36:ARG:N	2.36	0.40
1:D:93:THR:O	1:D:97:VAL:HG23	2.21	0.40
1:D:149:ILE:O	1:D:152:LYS:HB2	2.22	0.40
1:D:187:LYS:NZ	1:E:347:LYS:HZ3	2.18	0.40
1:D:510:LEU:CD1	1:D:511:ARG:H	2.25	0.40
1:D:521:LEU:HG	1:D:526:ASP:O	2.22	0.40
1:E:314:MET:SD	1:E:314:MET:N	2.95	0.40
1:F:146:ASP:OD1	1:F:150:LEU:HG	2.22	0.40
1:F:180:ALA:CA	1:F:363:LYS:HD2	2.43	0.40
1:F:209:ILE:HB	1:F:368:LEU:O	2.20	0.40
1:F:314:MET:O	1:F:317:LEU:HB3	2.22	0.40
1:G:35:VAL:HG23	1:G:36:ARG:N	2.36	0.40
1:G:120:VAL:O	1:G:124:TYR:HD2	2.04	0.40
1:G:369:ILE:HG23	1:G:371:GLY:H	1.86	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:392:GLY:O	1:G:395:ILE:HG13	2.20	0.40
1:H:57:VAL:CG1	1:H:63:THR:HG21	2.36	0.40
1:H:76:LYS:HE2	1:H:76:LYS:HB3	1.96	0.40
1:H:110:LEU:CG	1:H:111:LEU:H	2.34	0.40
1:H:192:LEU:HD11	1:H:363:LYS:NZ	2.37	0.40
1:H:192:LEU:HD13	1:H:363:LYS:HZ1	1.85	0.40
1:H:209:ILE:HB	1:H:368:LEU:O	2.20	0.40
1:I:192:LEU:HD13	1:I:363:LYS:HZ1	1.85	0.40
1:J:314:MET:O	1:J:317:LEU:HB3	2.21	0.40
1:K:146:ASP:OD1	1:K:150:LEU:HG	2.22	0.40
1:K:197:LYS:HD3	1:K:369:ILE:O	2.22	0.40
1:K:369:ILE:HG23	1:K:371:GLY:H	1.86	0.40
1:L:119:ILE:CD1	1:L:425:ARG:HB2	2.51	0.40
1:M:35:VAL:HG23	1:M:36:ARG:N	2.36	0.40
1:M:314:MET:HA	1:M:317:LEU:HB3	2.03	0.40
1:M:521:LEU:HG	1:M:526:ASP:O	2.22	0.40
1:N:49:VAL:HG23	1:O:517:ALA:CB	2.38	0.40
1:N:192:LEU:HD11	1:N:363:LYS:NZ	2.37	0.40
1:O:203:ILE:CG2	1:O:204:ASP:N	2.66	0.40
1:O:216:LYS:HA	1:O:354:ILE:HG21	2.04	0.40
1:O:419:ALA:HA	1:O:428:LEU:CD2	2.47	0.40
1:O:428:LEU:O	1:O:431:ARG:N	2.52	0.40
1:O:450:LEU:HD12	1:O:450:LEU:HA	1.76	0.40
1:P:197:LYS:CD	1:P:369:ILE:HG22	2.52	0.40
1:A:116:HIS:HA	1:A:117:PRO:HD2	1.93	0.40
1:A:242:LYS:C	1:A:244:THR:N	2.78	0.40
1:A:298:LEU:HD12	1:A:298:LEU:HA	1.87	0.40
1:A:321:THR:HG23	1:A:337:LEU:CD2	2.52	0.40
1:A:343:VAL:CG2	1:A:344:GLU:N	2.85	0.40
1:A:490:GLU:CA	1:A:491:PRO:C	2.95	0.40
1:A:522:ARG:HH12	1:B:53:GLY:C	2.28	0.40
1:B:208:LEU:HD23	1:B:209:ILE:H	1.87	0.40
1:B:480:VAL:O	1:B:481:GLU:HB2	2.21	0.40
1:C:35:VAL:HG23	1:C:36:ARG:N	2.36	0.40
1:C:343:VAL:CG2	1:C:344:GLU:N	2.85	0.40
1:D:141:GLU:CG	1:D:142:VAL:N	2.84	0.40
1:D:314:MET:HA	1:D:317:LEU:HB3	2.03	0.40
1:D:515:VAL:HG22	1:D:517:ALA:CA	2.51	0.40
1:E:119:ILE:CD1	1:E:425:ARG:HB2	2.51	0.40
1:E:137:THR:HG23	1:E:400:ILE:O	2.22	0.40
1:E:197:LYS:HD3	1:E:369:ILE:O	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:480:VAL:O	1:E:481:GLU:HB2	2.21	0.40
1:F:44:MET:CE	1:F:58:THR:HG21	2.24	0.40
1:F:57:VAL:HG22	1:F:60:ASP:OD2	2.20	0.40
1:F:120:VAL:O	1:F:124:TYR:HD2	2.04	0.40
1:F:192:LEU:HD11	1:F:363:LYS:NZ	2.37	0.40
1:F:197:LYS:HD3	1:F:369:ILE:O	2.22	0.40
1:F:197:LYS:CD	1:F:369:ILE:HG22	2.52	0.40
1:G:165:LYS:O	1:G:167:LYS:N	2.49	0.40
1:G:209:ILE:HB	1:G:368:LEU:O	2.21	0.40
1:H:197:LYS:CD	1:H:369:ILE:HG22	2.52	0.40
1:H:369:ILE:HG23	1:H:371:GLY:H	1.86	0.40
1:H:490:GLU:CA	1:H:491:PRO:C	2.95	0.40
1:H:521:LEU:HG	1:H:526:ASP:O	2.22	0.40
1:I:65:LEU:HB3	1:I:79:ILE:HG23	2.03	0.40
1:I:110:LEU:CG	1:I:111:LEU:H	2.34	0.40
1:I:192:LEU:HD11	1:I:363:LYS:NZ	2.37	0.40
1:I:197:LYS:CD	1:I:369:ILE:HG22	2.52	0.40
1:I:216:LYS:HA	1:I:354:ILE:HG21	2.04	0.40
1:I:521:LEU:HG	1:I:526:ASP:O	2.22	0.40
1:J:46:LYS:HE2	1:J:58:THR:CG2	2.51	0.40
1:J:392:GLY:O	1:J:395:ILE:HG13	2.20	0.40
1:J:480:VAL:CG1	1:J:481:GLU:H	2.17	0.40
1:K:44:MET:CE	1:K:58:THR:HG21	2.24	0.40
1:K:120:VAL:O	1:K:124:TYR:HD2	2.04	0.40
1:K:192:LEU:HD11	1:K:363:LYS:NZ	2.37	0.40
1:K:197:LYS:CD	1:K:369:ILE:HG22	2.52	0.40
1:K:269:LEU:HA	1:K:269:LEU:HD13	1.80	0.40
1:L:137:THR:HG23	1:L:400:ILE:O	2.22	0.40
1:L:165:LYS:HD2	1:L:169:LYS:N	2.36	0.40
1:L:197:LYS:HD3	1:L:369:ILE:O	2.22	0.40
1:L:347:LYS:HZ3	1:M:187:LYS:NZ	2.18	0.40
1:M:93:THR:O	1:M:97:VAL:HG23	2.21	0.40
1:M:149:ILE:O	1:M:152:LYS:HB2	2.22	0.40
1:M:236:ASN:HA	1:M:285:PHE:O	2.21	0.40
1:N:35:VAL:HG23	1:N:36:ARG:N	2.36	0.40
1:N:93:THR:O	1:N:97:VAL:HG23	2.21	0.40
1:N:216:LYS:HA	1:N:354:ILE:HG21	2.04	0.40
1:N:343:VAL:CG2	1:N:344:GLU:N	2.85	0.40
1:O:49:VAL:HG23	1:P:517:ALA:CB	2.38	0.40
1:O:49:VAL:O	1:O:50:ASP:CB	2.70	0.40
1:P:35:VAL:HG23	1:P:36:ARG:N	2.36	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:65:LEU:HB3	1:P:79:ILE:HG23	2.03	0.40
1:P:154:ALA:CB	1:P:488:VAL:HG13	2.49	0.40
1:P:170:LEU:HD23	1:P:171:ALA:N	2.36	0.40
1:P:209:ILE:HB	1:P:368:LEU:O	2.21	0.40
1:P:242:LYS:C	1:P:244:THR:N	2.78	0.40
1:P:343:VAL:CG2	1:P:344:GLU:N	2.85	0.40
1:P:369:ILE:HG23	1:P:371:GLY:H	1.86	0.40

There are no symmetry-related clashes.

5.3 Torsion angles [i](#)

5.3.1 Protein backbone [i](#)

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	530/543 (98%)	365 (69%)	91 (17%)	74 (14%)	0	3
1	B	530/543 (98%)	364 (69%)	93 (18%)	73 (14%)	0	3
1	C	530/543 (98%)	365 (69%)	92 (17%)	73 (14%)	0	3
1	D	530/543 (98%)	365 (69%)	92 (17%)	73 (14%)	0	3
1	E	530/543 (98%)	365 (69%)	92 (17%)	73 (14%)	0	3
1	F	530/543 (98%)	365 (69%)	92 (17%)	73 (14%)	0	3
1	G	530/543 (98%)	365 (69%)	92 (17%)	73 (14%)	0	3
1	H	530/543 (98%)	365 (69%)	92 (17%)	73 (14%)	0	3
1	I	530/543 (98%)	365 (69%)	92 (17%)	73 (14%)	0	3
1	J	530/543 (98%)	365 (69%)	92 (17%)	73 (14%)	0	3
1	K	530/543 (98%)	365 (69%)	92 (17%)	73 (14%)	0	3
1	L	530/543 (98%)	365 (69%)	92 (17%)	73 (14%)	0	3
1	M	530/543 (98%)	365 (69%)	92 (17%)	73 (14%)	0	3
1	N	530/543 (98%)	365 (69%)	92 (17%)	73 (14%)	0	3

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	O	530/543 (98%)	365 (69%)	92 (17%)	73 (14%)	0	3
1	P	530/543 (98%)	365 (69%)	92 (17%)	73 (14%)	0	3
All	All	8480/8688 (98%)	5839 (69%)	1472 (17%)	1169 (14%)	0	3

All (1169) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	5	PRO
1	A	7	VAL
1	A	9	PRO
1	A	12	MET
1	A	45	ASP
1	A	50	ASP
1	A	113	GLN
1	A	170	LEU
1	A	195	ILE
1	A	204	ASP
1	A	210	LYS
1	A	214	VAL
1	A	237	CYS
1	A	246	THR
1	A	249	GLU
1	A	309	VAL
1	A	445	ALA
1	A	453	ILE
1	A	483	MET
1	A	491	PRO
1	A	494	VAL
1	A	515	VAL
1	B	5	PRO
1	B	7	VAL
1	B	9	PRO
1	B	12	MET
1	B	45	ASP
1	B	50	ASP
1	B	113	GLN
1	B	170	LEU
1	B	195	ILE
1	B	204	ASP
1	B	210	LYS
1	B	214	VAL

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Mol	Chain	Res	Type
1	B	237	CYS
1	B	246	THR
1	B	249	GLU
1	B	309	VAL
1	B	445	ALA
1	B	453	ILE
1	B	483	MET
1	B	491	PRO
1	B	494	VAL
1	B	515	VAL
1	C	5	PRO
1	C	7	VAL
1	C	9	PRO
1	C	12	MET
1	C	45	ASP
1	C	50	ASP
1	C	113	GLN
1	C	170	LEU
1	C	195	ILE
1	C	204	ASP
1	C	210	LYS
1	C	214	VAL
1	C	237	CYS
1	C	246	THR
1	C	249	GLU
1	C	309	VAL
1	C	445	ALA
1	C	453	ILE
1	C	483	MET
1	C	491	PRO
1	C	494	VAL
1	C	515	VAL
1	D	5	PRO
1	D	7	VAL
1	D	9	PRO
1	D	12	MET
1	D	45	ASP
1	D	50	ASP
1	D	113	GLN
1	D	170	LEU
1	D	195	ILE
1	D	204	ASP

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Mol	Chain	Res	Type
1	D	210	LYS
1	D	214	VAL
1	D	237	CYS
1	D	246	THR
1	D	249	GLU
1	D	309	VAL
1	D	445	ALA
1	D	453	ILE
1	D	483	MET
1	D	491	PRO
1	D	494	VAL
1	D	515	VAL
1	E	5	PRO
1	E	7	VAL
1	E	9	PRO
1	E	12	MET
1	E	45	ASP
1	E	50	ASP
1	E	113	GLN
1	E	170	LEU
1	E	195	ILE
1	E	204	ASP
1	E	210	LYS
1	E	214	VAL
1	E	237	CYS
1	E	246	THR
1	E	249	GLU
1	E	309	VAL
1	E	445	ALA
1	E	453	ILE
1	E	483	MET
1	E	491	PRO
1	E	494	VAL
1	E	515	VAL
1	F	5	PRO
1	F	7	VAL
1	F	9	PRO
1	F	12	MET
1	F	45	ASP
1	F	50	ASP
1	F	113	GLN
1	F	170	LEU

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Mol	Chain	Res	Type
1	F	195	ILE
1	F	204	ASP
1	F	210	LYS
1	F	214	VAL
1	F	237	CYS
1	F	246	THR
1	F	249	GLU
1	F	309	VAL
1	F	445	ALA
1	F	453	ILE
1	F	483	MET
1	F	491	PRO
1	F	494	VAL
1	F	515	VAL
1	G	5	PRO
1	G	7	VAL
1	G	9	PRO
1	G	12	MET
1	G	45	ASP
1	G	50	ASP
1	G	113	GLN
1	G	170	LEU
1	G	195	ILE
1	G	204	ASP
1	G	210	LYS
1	G	214	VAL
1	G	237	CYS
1	G	246	THR
1	G	249	GLU
1	G	309	VAL
1	G	445	ALA
1	G	453	ILE
1	G	483	MET
1	G	491	PRO
1	G	494	VAL
1	G	515	VAL
1	H	5	PRO
1	H	7	VAL
1	H	9	PRO
1	H	12	MET
1	H	45	ASP
1	H	50	ASP

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Mol	Chain	Res	Type
1	H	113	GLN
1	H	170	LEU
1	H	195	ILE
1	H	204	ASP
1	H	210	LYS
1	H	214	VAL
1	H	237	CYS
1	H	246	THR
1	H	249	GLU
1	H	309	VAL
1	H	445	ALA
1	H	453	ILE
1	H	483	MET
1	H	491	PRO
1	H	494	VAL
1	H	515	VAL
1	I	5	PRO
1	I	7	VAL
1	I	9	PRO
1	I	12	MET
1	I	45	ASP
1	I	50	ASP
1	I	113	GLN
1	I	170	LEU
1	I	195	ILE
1	I	204	ASP
1	I	210	LYS
1	I	214	VAL
1	I	237	CYS
1	I	246	THR
1	I	249	GLU
1	I	309	VAL
1	I	445	ALA
1	I	453	ILE
1	I	483	MET
1	I	491	PRO
1	I	494	VAL
1	I	515	VAL
1	J	5	PRO
1	J	7	VAL
1	J	9	PRO
1	J	12	MET

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Mol	Chain	Res	Type
1	J	45	ASP
1	J	50	ASP
1	J	113	GLN
1	J	170	LEU
1	J	195	ILE
1	J	204	ASP
1	J	210	LYS
1	J	214	VAL
1	J	237	CYS
1	J	246	THR
1	J	249	GLU
1	J	309	VAL
1	J	445	ALA
1	J	453	ILE
1	J	483	MET
1	J	491	PRO
1	J	494	VAL
1	J	515	VAL
1	K	5	PRO
1	K	7	VAL
1	K	9	PRO
1	K	12	MET
1	K	45	ASP
1	K	50	ASP
1	K	113	GLN
1	K	170	LEU
1	K	195	ILE
1	K	204	ASP
1	K	210	LYS
1	K	214	VAL
1	K	237	CYS
1	K	246	THR
1	K	249	GLU
1	K	309	VAL
1	K	445	ALA
1	K	453	ILE
1	K	483	MET
1	K	491	PRO
1	K	494	VAL
1	K	515	VAL
1	L	5	PRO
1	L	7	VAL

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Mol	Chain	Res	Type
1	L	9	PRO
1	L	12	MET
1	L	45	ASP
1	L	50	ASP
1	L	113	GLN
1	L	170	LEU
1	L	195	ILE
1	L	204	ASP
1	L	210	LYS
1	L	214	VAL
1	L	237	CYS
1	L	246	THR
1	L	249	GLU
1	L	309	VAL
1	L	445	ALA
1	L	453	ILE
1	L	483	MET
1	L	491	PRO
1	L	494	VAL
1	L	515	VAL
1	M	5	PRO
1	M	7	VAL
1	M	9	PRO
1	M	12	MET
1	M	45	ASP
1	M	50	ASP
1	M	113	GLN
1	M	170	LEU
1	M	195	ILE
1	M	204	ASP
1	M	210	LYS
1	M	214	VAL
1	M	237	CYS
1	M	246	THR
1	M	249	GLU
1	M	309	VAL
1	M	445	ALA
1	M	453	ILE
1	M	483	MET
1	M	491	PRO
1	M	494	VAL
1	M	515	VAL

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Mol	Chain	Res	Type
1	N	5	PRO
1	N	7	VAL
1	N	9	PRO
1	N	12	MET
1	N	45	ASP
1	N	50	ASP
1	N	113	GLN
1	N	170	LEU
1	N	195	ILE
1	N	204	ASP
1	N	210	LYS
1	N	214	VAL
1	N	237	CYS
1	N	246	THR
1	N	249	GLU
1	N	309	VAL
1	N	445	ALA
1	N	453	ILE
1	N	483	MET
1	N	491	PRO
1	N	494	VAL
1	N	515	VAL
1	O	5	PRO
1	O	7	VAL
1	O	9	PRO
1	O	12	MET
1	O	45	ASP
1	O	50	ASP
1	O	113	GLN
1	O	170	LEU
1	O	195	ILE
1	O	204	ASP
1	O	210	LYS
1	O	214	VAL
1	O	237	CYS
1	O	246	THR
1	O	249	GLU
1	O	309	VAL
1	O	445	ALA
1	O	453	ILE
1	O	483	MET
1	O	491	PRO

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Mol	Chain	Res	Type
1	O	494	VAL
1	O	515	VAL
1	P	5	PRO
1	P	7	VAL
1	P	9	PRO
1	P	12	MET
1	P	45	ASP
1	P	50	ASP
1	P	113	GLN
1	P	170	LEU
1	P	195	ILE
1	P	204	ASP
1	P	210	LYS
1	P	214	VAL
1	P	237	CYS
1	P	246	THR
1	P	249	GLU
1	P	309	VAL
1	P	445	ALA
1	P	453	ILE
1	P	483	MET
1	P	491	PRO
1	P	494	VAL
1	P	515	VAL
1	A	15	TYR
1	A	43	GLY
1	A	49	VAL
1	A	159	THR
1	A	166	ALA
1	A	167	LYS
1	A	219	VAL
1	A	231	LYS
1	A	232	ILE
1	A	245	GLU
1	A	292	ASP
1	A	303	ILE
1	A	329	ILE
1	A	344	GLU
1	A	360	LYS
1	A	371	GLY
1	A	401	VAL
1	A	425	ARG

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Mol	Chain	Res	Type
1	A	449	GLY
1	A	481	GLU
1	A	516	ILE
1	B	15	TYR
1	B	43	GLY
1	B	49	VAL
1	B	159	THR
1	B	166	ALA
1	B	167	LYS
1	B	217	GLU
1	B	219	VAL
1	B	231	LYS
1	B	232	ILE
1	B	245	GLU
1	B	292	ASP
1	B	303	ILE
1	B	329	ILE
1	B	331	ASP
1	B	344	GLU
1	B	360	LYS
1	B	371	GLY
1	B	401	VAL
1	B	425	ARG
1	B	449	GLY
1	B	481	GLU
1	B	516	ILE
1	C	15	TYR
1	C	43	GLY
1	C	49	VAL
1	C	159	THR
1	C	166	ALA
1	C	167	LYS
1	C	217	GLU
1	C	219	VAL
1	C	231	LYS
1	C	232	ILE
1	C	245	GLU
1	C	292	ASP
1	C	303	ILE
1	C	329	ILE
1	C	344	GLU
1	C	360	LYS

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Mol	Chain	Res	Type
1	C	371	GLY
1	C	401	VAL
1	C	425	ARG
1	C	449	GLY
1	C	481	GLU
1	C	516	ILE
1	D	15	TYR
1	D	43	GLY
1	D	49	VAL
1	D	159	THR
1	D	166	ALA
1	D	167	LYS
1	D	217	GLU
1	D	219	VAL
1	D	231	LYS
1	D	232	ILE
1	D	245	GLU
1	D	292	ASP
1	D	303	ILE
1	D	329	ILE
1	D	331	ASP
1	D	344	GLU
1	D	360	LYS
1	D	371	GLY
1	D	401	VAL
1	D	425	ARG
1	D	449	GLY
1	D	481	GLU
1	D	516	ILE
1	E	15	TYR
1	E	43	GLY
1	E	49	VAL
1	E	159	THR
1	E	166	ALA
1	E	167	LYS
1	E	217	GLU
1	E	219	VAL
1	E	231	LYS
1	E	232	ILE
1	E	245	GLU
1	E	292	ASP
1	E	303	ILE

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Mol	Chain	Res	Type
1	E	329	ILE
1	E	344	GLU
1	E	360	LYS
1	E	371	GLY
1	E	401	VAL
1	E	425	ARG
1	E	449	GLY
1	E	481	GLU
1	E	516	ILE
1	F	15	TYR
1	F	43	GLY
1	F	49	VAL
1	F	159	THR
1	F	166	ALA
1	F	167	LYS
1	F	217	GLU
1	F	219	VAL
1	F	231	LYS
1	F	232	ILE
1	F	245	GLU
1	F	292	ASP
1	F	303	ILE
1	F	329	ILE
1	F	331	ASP
1	F	344	GLU
1	F	360	LYS
1	F	371	GLY
1	F	401	VAL
1	F	425	ARG
1	F	449	GLY
1	F	481	GLU
1	F	516	ILE
1	G	15	TYR
1	G	43	GLY
1	G	49	VAL
1	G	159	THR
1	G	166	ALA
1	G	167	LYS
1	G	217	GLU
1	G	219	VAL
1	G	231	LYS
1	G	232	ILE

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Mol	Chain	Res	Type
1	G	245	GLU
1	G	292	ASP
1	G	303	ILE
1	G	329	ILE
1	G	344	GLU
1	G	360	LYS
1	G	371	GLY
1	G	401	VAL
1	G	425	ARG
1	G	449	GLY
1	G	481	GLU
1	G	516	ILE
1	H	15	TYR
1	H	43	GLY
1	H	49	VAL
1	H	159	THR
1	H	166	ALA
1	H	167	LYS
1	H	217	GLU
1	H	219	VAL
1	H	231	LYS
1	H	232	ILE
1	H	245	GLU
1	H	292	ASP
1	H	303	ILE
1	H	329	ILE
1	H	331	ASP
1	H	344	GLU
1	H	360	LYS
1	H	371	GLY
1	H	401	VAL
1	H	425	ARG
1	H	449	GLY
1	H	481	GLU
1	H	516	ILE
1	I	15	TYR
1	I	43	GLY
1	I	49	VAL
1	I	159	THR
1	I	166	ALA
1	I	167	LYS
1	I	217	GLU

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Mol	Chain	Res	Type
1	I	219	VAL
1	I	231	LYS
1	I	232	ILE
1	I	245	GLU
1	I	292	ASP
1	I	303	ILE
1	I	329	ILE
1	I	331	ASP
1	I	344	GLU
1	I	360	LYS
1	I	371	GLY
1	I	401	VAL
1	I	425	ARG
1	I	449	GLY
1	I	481	GLU
1	I	516	ILE
1	J	15	TYR
1	J	43	GLY
1	J	49	VAL
1	J	159	THR
1	J	166	ALA
1	J	167	LYS
1	J	217	GLU
1	J	219	VAL
1	J	231	LYS
1	J	232	ILE
1	J	245	GLU
1	J	292	ASP
1	J	303	ILE
1	J	329	ILE
1	J	344	GLU
1	J	360	LYS
1	J	371	GLY
1	J	401	VAL
1	J	425	ARG
1	J	449	GLY
1	J	481	GLU
1	J	516	ILE
1	K	15	TYR
1	K	43	GLY
1	K	49	VAL
1	K	159	THR

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Mol	Chain	Res	Type
1	K	166	ALA
1	K	167	LYS
1	K	217	GLU
1	K	219	VAL
1	K	231	LYS
1	K	232	ILE
1	K	245	GLU
1	K	292	ASP
1	K	303	ILE
1	K	329	ILE
1	K	331	ASP
1	K	344	GLU
1	K	360	LYS
1	K	371	GLY
1	K	401	VAL
1	K	425	ARG
1	K	449	GLY
1	K	481	GLU
1	K	516	ILE
1	L	15	TYR
1	L	43	GLY
1	L	49	VAL
1	L	159	THR
1	L	166	ALA
1	L	167	LYS
1	L	217	GLU
1	L	219	VAL
1	L	231	LYS
1	L	232	ILE
1	L	245	GLU
1	L	292	ASP
1	L	303	ILE
1	L	329	ILE
1	L	344	GLU
1	L	360	LYS
1	L	371	GLY
1	L	401	VAL
1	L	425	ARG
1	L	449	GLY
1	L	481	GLU
1	L	516	ILE
1	M	15	TYR

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Continued from previous page...

Mol	Chain	Res	Type
1	M	43	GLY
1	M	49	VAL
1	M	159	THR
1	M	166	ALA
1	M	167	LYS
1	M	217	GLU
1	M	219	VAL
1	M	231	LYS
1	M	232	ILE
1	M	245	GLU
1	M	292	ASP
1	M	303	ILE
1	M	329	ILE
1	M	331	ASP
1	M	344	GLU
1	M	360	LYS
1	M	371	GLY
1	M	401	VAL
1	M	425	ARG
1	M	449	GLY
1	M	481	GLU
1	M	516	ILE
1	N	15	TYR
1	N	43	GLY
1	N	49	VAL
1	N	159	THR
1	N	166	ALA
1	N	167	LYS
1	N	217	GLU
1	N	219	VAL
1	N	231	LYS
1	N	232	ILE
1	N	245	GLU
1	N	292	ASP
1	N	303	ILE
1	N	329	ILE
1	N	344	GLU
1	N	360	LYS
1	N	371	GLY
1	N	401	VAL
1	N	425	ARG
1	N	449	GLY

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Continued from previous page...

Mol	Chain	Res	Type
1	N	481	GLU
1	N	516	ILE
1	O	15	TYR
1	O	43	GLY
1	O	49	VAL
1	O	159	THR
1	O	166	ALA
1	O	167	LYS
1	O	217	GLU
1	O	219	VAL
1	O	231	LYS
1	O	232	ILE
1	O	245	GLU
1	O	292	ASP
1	O	303	ILE
1	O	329	ILE
1	O	331	ASP
1	O	344	GLU
1	O	360	LYS
1	O	371	GLY
1	O	401	VAL
1	O	425	ARG
1	O	449	GLY
1	O	481	GLU
1	O	516	ILE
1	P	15	TYR
1	P	43	GLY
1	P	49	VAL
1	P	159	THR
1	P	166	ALA
1	P	167	LYS
1	P	217	GLU
1	P	219	VAL
1	P	231	LYS
1	P	232	ILE
1	P	245	GLU
1	P	292	ASP
1	P	303	ILE
1	P	329	ILE
1	P	344	GLU
1	P	360	LYS
1	P	371	GLY

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Continued from previous page...

Mol	Chain	Res	Type
1	P	401	VAL
1	P	425	ARG
1	P	449	GLY
1	P	481	GLU
1	P	516	ILE
1	A	71	GLU
1	A	217	GLU
1	A	248	ALA
1	A	331	ASP
1	A	336	ASP
1	A	349	SER
1	A	351	ASP
1	A	426	GLU
1	A	462	ALA
1	B	71	GLU
1	B	208	LEU
1	B	248	ALA
1	B	349	SER
1	B	351	ASP
1	B	397	ASP
1	B	426	GLU
1	B	462	ALA
1	C	71	GLU
1	C	248	ALA
1	C	331	ASP
1	C	336	ASP
1	C	349	SER
1	C	351	ASP
1	C	426	GLU
1	C	462	ALA
1	D	71	GLU
1	D	208	LEU
1	D	248	ALA
1	D	349	SER
1	D	351	ASP
1	D	426	GLU
1	D	462	ALA
1	E	71	GLU
1	E	248	ALA
1	E	331	ASP
1	E	336	ASP
1	E	349	SER

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Mol	Chain	Res	Type
1	E	351	ASP
1	E	426	GLU
1	E	462	ALA
1	F	71	GLU
1	F	208	LEU
1	F	248	ALA
1	F	349	SER
1	F	351	ASP
1	F	426	GLU
1	F	462	ALA
1	G	71	GLU
1	G	248	ALA
1	G	331	ASP
1	G	336	ASP
1	G	349	SER
1	G	351	ASP
1	G	426	GLU
1	G	462	ALA
1	H	71	GLU
1	H	208	LEU
1	H	248	ALA
1	H	349	SER
1	H	351	ASP
1	H	426	GLU
1	H	462	ALA
1	I	71	GLU
1	I	208	LEU
1	I	248	ALA
1	I	349	SER
1	I	351	ASP
1	I	426	GLU
1	I	462	ALA
1	J	71	GLU
1	J	248	ALA
1	J	331	ASP
1	J	336	ASP
1	J	349	SER
1	J	351	ASP
1	J	426	GLU
1	J	462	ALA
1	K	71	GLU
1	K	208	LEU

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Mol	Chain	Res	Type
1	K	248	ALA
1	K	349	SER
1	K	351	ASP
1	K	426	GLU
1	K	462	ALA
1	L	71	GLU
1	L	248	ALA
1	L	331	ASP
1	L	336	ASP
1	L	349	SER
1	L	351	ASP
1	L	426	GLU
1	L	462	ALA
1	M	71	GLU
1	M	208	LEU
1	M	248	ALA
1	M	349	SER
1	M	351	ASP
1	M	426	GLU
1	M	462	ALA
1	N	71	GLU
1	N	248	ALA
1	N	331	ASP
1	N	336	ASP
1	N	349	SER
1	N	351	ASP
1	N	426	GLU
1	N	462	ALA
1	O	71	GLU
1	O	208	LEU
1	O	248	ALA
1	O	349	SER
1	O	351	ASP
1	O	426	GLU
1	O	462	ALA
1	P	71	GLU
1	P	248	ALA
1	P	331	ASP
1	P	336	ASP
1	P	349	SER
1	P	351	ASP
1	P	426	GLU

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Mol	Chain	Res	Type
1	P	462	ALA
1	A	161	LYS
1	A	208	LEU
1	A	256	ALA
1	A	287	GLN
1	A	302	GLY
1	A	323	ALA
1	A	374	GLU
1	A	486	ASN
1	A	531	GLY
1	B	161	LYS
1	B	256	ALA
1	B	287	GLN
1	B	302	GLY
1	B	323	ALA
1	B	336	ASP
1	B	374	GLU
1	B	486	ASN
1	B	531	GLY
1	C	161	LYS
1	C	208	LEU
1	C	256	ALA
1	C	287	GLN
1	C	302	GLY
1	C	323	ALA
1	C	374	GLU
1	C	486	ASN
1	C	531	GLY
1	D	161	LYS
1	D	256	ALA
1	D	287	GLN
1	D	302	GLY
1	D	323	ALA
1	D	336	ASP
1	D	374	GLU
1	D	486	ASN
1	D	531	GLY
1	E	161	LYS
1	E	208	LEU
1	E	256	ALA
1	E	287	GLN
1	E	302	GLY

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Mol	Chain	Res	Type
1	E	323	ALA
1	E	374	GLU
1	E	486	ASN
1	E	531	GLY
1	F	161	LYS
1	F	256	ALA
1	F	287	GLN
1	F	302	GLY
1	F	323	ALA
1	F	336	ASP
1	F	374	GLU
1	F	486	ASN
1	F	531	GLY
1	G	161	LYS
1	G	208	LEU
1	G	256	ALA
1	G	287	GLN
1	G	302	GLY
1	G	323	ALA
1	G	374	GLU
1	G	486	ASN
1	G	531	GLY
1	H	161	LYS
1	H	256	ALA
1	H	287	GLN
1	H	302	GLY
1	H	323	ALA
1	H	336	ASP
1	H	374	GLU
1	H	486	ASN
1	H	531	GLY
1	I	161	LYS
1	I	256	ALA
1	I	287	GLN
1	I	302	GLY
1	I	323	ALA
1	I	336	ASP
1	I	374	GLU
1	I	486	ASN
1	I	531	GLY
1	J	161	LYS
1	J	208	LEU

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Mol	Chain	Res	Type
1	J	256	ALA
1	J	287	GLN
1	J	302	GLY
1	J	323	ALA
1	J	374	GLU
1	J	486	ASN
1	J	531	GLY
1	K	161	LYS
1	K	256	ALA
1	K	287	GLN
1	K	302	GLY
1	K	323	ALA
1	K	336	ASP
1	K	374	GLU
1	K	486	ASN
1	K	531	GLY
1	L	161	LYS
1	L	208	LEU
1	L	256	ALA
1	L	287	GLN
1	L	302	GLY
1	L	323	ALA
1	L	374	GLU
1	L	486	ASN
1	L	531	GLY
1	M	161	LYS
1	M	256	ALA
1	M	287	GLN
1	M	302	GLY
1	M	323	ALA
1	M	336	ASP
1	M	374	GLU
1	M	486	ASN
1	M	531	GLY
1	N	161	LYS
1	N	208	LEU
1	N	256	ALA
1	N	287	GLN
1	N	302	GLY
1	N	323	ALA
1	N	374	GLU
1	N	486	ASN

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Mol	Chain	Res	Type
1	N	531	GLY
1	O	161	LYS
1	O	256	ALA
1	O	287	GLN
1	O	302	GLY
1	O	323	ALA
1	O	336	ASP
1	O	374	GLU
1	O	486	ASN
1	O	531	GLY
1	P	161	LYS
1	P	208	LEU
1	P	256	ALA
1	P	287	GLN
1	P	302	GLY
1	P	323	ALA
1	P	374	GLU
1	P	486	ASN
1	P	531	GLY
1	A	104	LEU
1	A	220	SER
1	A	233	ALA
1	A	475	VAL
1	B	104	LEU
1	B	220	SER
1	B	233	ALA
1	B	475	VAL
1	C	104	LEU
1	C	220	SER
1	C	233	ALA
1	C	362	PRO
1	C	475	VAL
1	D	104	LEU
1	D	220	SER
1	D	233	ALA
1	D	475	VAL
1	E	104	LEU
1	E	220	SER
1	E	233	ALA
1	E	362	PRO
1	E	475	VAL
1	F	104	LEU

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Mol	Chain	Res	Type
1	F	220	SER
1	F	233	ALA
1	F	475	VAL
1	G	104	LEU
1	G	220	SER
1	G	233	ALA
1	G	362	PRO
1	G	475	VAL
1	H	104	LEU
1	H	220	SER
1	H	233	ALA
1	H	475	VAL
1	I	104	LEU
1	I	220	SER
1	I	233	ALA
1	I	475	VAL
1	J	104	LEU
1	J	220	SER
1	J	233	ALA
1	J	362	PRO
1	J	475	VAL
1	K	104	LEU
1	K	220	SER
1	K	233	ALA
1	K	475	VAL
1	L	104	LEU
1	L	220	SER
1	L	233	ALA
1	L	362	PRO
1	L	475	VAL
1	M	104	LEU
1	M	220	SER
1	M	233	ALA
1	M	475	VAL
1	N	104	LEU
1	N	220	SER
1	N	233	ALA
1	N	362	PRO
1	N	475	VAL
1	O	104	LEU
1	O	220	SER
1	O	233	ALA

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Mol	Chain	Res	Type
1	O	475	VAL
1	P	104	LEU
1	P	220	SER
1	P	233	ALA
1	P	362	PRO
1	P	475	VAL
1	A	55	VAL
1	A	72	HIS
1	A	362	PRO
1	A	482	ASP
1	B	55	VAL
1	B	72	HIS
1	B	362	PRO
1	C	72	HIS
1	D	55	VAL
1	D	72	HIS
1	D	362	PRO
1	E	72	HIS
1	F	55	VAL
1	F	72	HIS
1	F	362	PRO
1	G	72	HIS
1	H	55	VAL
1	H	72	HIS
1	H	362	PRO
1	I	55	VAL
1	I	72	HIS
1	I	362	PRO
1	J	72	HIS
1	K	55	VAL
1	K	72	HIS
1	K	362	PRO
1	L	72	HIS
1	M	55	VAL
1	M	72	HIS
1	M	362	PRO
1	N	72	HIS
1	O	55	VAL
1	O	72	HIS
1	O	362	PRO
1	P	72	HIS
1	C	55	VAL

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Mol	Chain	Res	Type
1	C	480	VAL
1	D	480	VAL
1	E	55	VAL
1	E	480	VAL
1	F	480	VAL
1	G	55	VAL
1	G	480	VAL
1	H	480	VAL
1	I	480	VAL
1	J	55	VAL
1	J	480	VAL
1	K	480	VAL
1	L	55	VAL
1	L	480	VAL
1	M	480	VAL
1	N	55	VAL
1	N	480	VAL
1	O	480	VAL
1	P	55	VAL
1	P	480	VAL
1	A	162	GLY
1	A	223	MET
1	A	480	VAL
1	B	162	GLY
1	B	223	MET
1	B	480	VAL
1	C	162	GLY
1	C	223	MET
1	D	162	GLY
1	D	223	MET
1	E	162	GLY
1	E	223	MET
1	F	162	GLY
1	F	223	MET
1	G	162	GLY
1	G	223	MET
1	H	162	GLY
1	H	223	MET
1	I	162	GLY
1	I	223	MET
1	J	162	GLY
1	J	223	MET

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Mol	Chain	Res	Type
1	K	162	GLY
1	K	223	MET
1	L	162	GLY
1	L	223	MET
1	M	162	GLY
1	M	223	MET
1	N	162	GLY
1	N	223	MET
1	O	162	GLY
1	O	223	MET
1	P	162	GLY
1	P	223	MET
1	A	400	ILE
1	C	400	ILE
1	D	400	ILE
1	E	400	ILE
1	F	400	ILE
1	G	400	ILE
1	H	400	ILE
1	I	400	ILE
1	J	400	ILE
1	K	400	ILE
1	L	400	ILE
1	M	400	ILE
1	N	400	ILE
1	O	400	ILE
1	P	400	ILE
1	A	70	VAL
1	B	70	VAL
1	C	70	VAL
1	D	70	VAL
1	E	70	VAL
1	F	70	VAL
1	G	70	VAL
1	H	70	VAL
1	I	70	VAL
1	J	70	VAL
1	K	70	VAL
1	L	70	VAL
1	M	70	VAL
1	N	70	VAL
1	O	70	VAL

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Mol	Chain	Res	Type
1	P	70	VAL

5.3.2 Protein sidechains ⓘ

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	427/434 (98%)	325 (76%)	102 (24%)	1	5
1	B	427/434 (98%)	325 (76%)	102 (24%)	1	5
1	C	427/434 (98%)	325 (76%)	102 (24%)	1	5
1	D	427/434 (98%)	325 (76%)	102 (24%)	1	5
1	E	427/434 (98%)	325 (76%)	102 (24%)	1	5
1	F	427/434 (98%)	325 (76%)	102 (24%)	1	5
1	G	427/434 (98%)	325 (76%)	102 (24%)	1	5
1	H	427/434 (98%)	325 (76%)	102 (24%)	1	5
1	I	427/434 (98%)	325 (76%)	102 (24%)	1	5
1	J	427/434 (98%)	325 (76%)	102 (24%)	1	5
1	K	427/434 (98%)	325 (76%)	102 (24%)	1	5
1	L	427/434 (98%)	325 (76%)	102 (24%)	1	5
1	M	427/434 (98%)	325 (76%)	102 (24%)	1	5
1	N	427/434 (98%)	325 (76%)	102 (24%)	1	5
1	O	427/434 (98%)	325 (76%)	102 (24%)	1	5
1	P	427/434 (98%)	325 (76%)	102 (24%)	1	5
All	All	6832/6944 (98%)	5200 (76%)	1632 (24%)	2	5

All (1632) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	7	VAL
1	A	10	GLU
1	A	11	ASN

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Mol	Chain	Res	Type
1	A	14	ARG
1	A	22	ARG
1	A	33	GLU
1	A	36	ARG
1	A	39	LEU
1	A	46	LYS
1	A	47	MET
1	A	48	LEU
1	A	57	VAL
1	A	58	THR
1	A	64	ILE
1	A	65	LEU
1	A	72	HIS
1	A	87	LYS
1	A	88	GLU
1	A	93	THR
1	A	95	THR
1	A	104	LEU
1	A	105	ARG
1	A	108	GLU
1	A	110	LEU
1	A	120	VAL
1	A	125	GLN
1	A	134	LEU
1	A	137	THR
1	A	141	GLU
1	A	147	LYS
1	A	149	ILE
1	A	150	LEU
1	A	153	ILE
1	A	155	MET
1	A	161	LYS
1	A	170	LEU
1	A	174	ILE
1	A	176	GLU
1	A	182	VAL
1	A	194	LYS
1	A	208	LEU
1	A	209	ILE
1	A	210	LYS
1	A	212	VAL
1	A	213	LEU

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Mol	Chain	Res	Type
1	A	234	LEU
1	A	235	LEU
1	A	240	GLU
1	A	241	ILE
1	A	242	LYS
1	A	243	GLU
1	A	245	GLU
1	A	265	GLU
1	A	269	LEU
1	A	277	LYS
1	A	284	LEU
1	A	290	ILE
1	A	293	LEU
1	A	296	HIS
1	A	298	LEU
1	A	307	ARG
1	A	311	LYS
1	A	315	GLU
1	A	316	LYS
1	A	317	LEU
1	A	321	THR
1	A	326	ILE
1	A	330	LYS
1	A	332	LEU
1	A	342	LEU
1	A	346	ARG
1	A	353	MET
1	A	356	VAL
1	A	357	GLU
1	A	363	LYS
1	A	368	LEU
1	A	382	ARG
1	A	399	ARG
1	A	400	ILE
1	A	411	LEU
1	A	412	SER
1	A	415	LEU
1	A	427	GLN
1	A	428	LEU
1	A	431	ARG
1	A	438	GLU
1	A	444	LEU

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Mol	Chain	Res	Type
1	A	453	ILE
1	A	459	VAL
1	A	485	GLU
1	A	486	ASN
1	A	488	VAL
1	A	489	VAL
1	A	500	GLN
1	A	509	LEU
1	A	510	LEU
1	A	516	ILE
1	A	519	GLU
1	A	520	LYS
1	A	521	LEU
1	A	527	MET
1	A	530	MET
1	B	7	VAL
1	B	10	GLU
1	B	11	ASN
1	B	14	ARG
1	B	22	ARG
1	B	33	GLU
1	B	36	ARG
1	B	39	LEU
1	B	46	LYS
1	B	47	MET
1	B	48	LEU
1	B	57	VAL
1	B	58	THR
1	B	64	ILE
1	B	65	LEU
1	B	72	HIS
1	B	87	LYS
1	B	88	GLU
1	B	93	THR
1	B	95	THR
1	B	104	LEU
1	B	105	ARG
1	B	108	GLU
1	B	110	LEU
1	B	120	VAL
1	B	125	GLN
1	B	134	LEU

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Mol	Chain	Res	Type
1	B	137	THR
1	B	141	GLU
1	B	147	LYS
1	B	149	ILE
1	B	150	LEU
1	B	153	ILE
1	B	155	MET
1	B	161	LYS
1	B	170	LEU
1	B	174	ILE
1	B	176	GLU
1	B	182	VAL
1	B	194	LYS
1	B	208	LEU
1	B	209	ILE
1	B	210	LYS
1	B	212	VAL
1	B	213	LEU
1	B	234	LEU
1	B	235	LEU
1	B	240	GLU
1	B	241	ILE
1	B	242	LYS
1	B	243	GLU
1	B	245	GLU
1	B	265	GLU
1	B	269	LEU
1	B	277	LYS
1	B	284	LEU
1	B	290	ILE
1	B	293	LEU
1	B	296	HIS
1	B	298	LEU
1	B	307	ARG
1	B	311	LYS
1	B	315	GLU
1	B	316	LYS
1	B	317	LEU
1	B	321	THR
1	B	326	ILE
1	B	330	LYS
1	B	332	LEU

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Mol	Chain	Res	Type
1	B	342	LEU
1	B	346	ARG
1	B	353	MET
1	B	356	VAL
1	B	357	GLU
1	B	363	LYS
1	B	368	LEU
1	B	382	ARG
1	B	399	ARG
1	B	400	ILE
1	B	411	LEU
1	B	412	SER
1	B	415	LEU
1	B	427	GLN
1	B	428	LEU
1	B	431	ARG
1	B	438	GLU
1	B	444	LEU
1	B	453	ILE
1	B	459	VAL
1	B	485	GLU
1	B	486	ASN
1	B	488	VAL
1	B	489	VAL
1	B	500	GLN
1	B	509	LEU
1	B	510	LEU
1	B	516	ILE
1	B	519	GLU
1	B	520	LYS
1	B	521	LEU
1	B	527	MET
1	B	530	MET
1	C	7	VAL
1	C	10	GLU
1	C	11	ASN
1	C	14	ARG
1	C	22	ARG
1	C	33	GLU
1	C	36	ARG
1	C	39	LEU
1	C	46	LYS

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Mol	Chain	Res	Type
1	C	47	MET
1	C	48	LEU
1	C	57	VAL
1	C	58	THR
1	C	64	ILE
1	C	65	LEU
1	C	72	HIS
1	C	87	LYS
1	C	88	GLU
1	C	93	THR
1	C	95	THR
1	C	104	LEU
1	C	105	ARG
1	C	108	GLU
1	C	110	LEU
1	C	120	VAL
1	C	125	GLN
1	C	134	LEU
1	C	137	THR
1	C	141	GLU
1	C	147	LYS
1	C	149	ILE
1	C	150	LEU
1	C	153	ILE
1	C	155	MET
1	C	161	LYS
1	C	170	LEU
1	C	174	ILE
1	C	176	GLU
1	C	182	VAL
1	C	194	LYS
1	C	208	LEU
1	C	209	ILE
1	C	210	LYS
1	C	212	VAL
1	C	213	LEU
1	C	234	LEU
1	C	235	LEU
1	C	240	GLU
1	C	241	ILE
1	C	242	LYS
1	C	243	GLU

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Mol	Chain	Res	Type
1	C	245	GLU
1	C	265	GLU
1	C	269	LEU
1	C	277	LYS
1	C	284	LEU
1	C	290	ILE
1	C	293	LEU
1	C	296	HIS
1	C	298	LEU
1	C	307	ARG
1	C	311	LYS
1	C	315	GLU
1	C	316	LYS
1	C	317	LEU
1	C	321	THR
1	C	326	ILE
1	C	330	LYS
1	C	332	LEU
1	C	342	LEU
1	C	346	ARG
1	C	353	MET
1	C	356	VAL
1	C	357	GLU
1	C	363	LYS
1	C	368	LEU
1	C	382	ARG
1	C	399	ARG
1	C	400	ILE
1	C	411	LEU
1	C	412	SER
1	C	415	LEU
1	C	427	GLN
1	C	428	LEU
1	C	431	ARG
1	C	438	GLU
1	C	444	LEU
1	C	453	ILE
1	C	459	VAL
1	C	485	GLU
1	C	486	ASN
1	C	488	VAL
1	C	489	VAL

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Mol	Chain	Res	Type
1	C	500	GLN
1	C	509	LEU
1	C	510	LEU
1	C	516	ILE
1	C	519	GLU
1	C	520	LYS
1	C	521	LEU
1	C	527	MET
1	C	530	MET
1	D	7	VAL
1	D	10	GLU
1	D	11	ASN
1	D	14	ARG
1	D	22	ARG
1	D	33	GLU
1	D	36	ARG
1	D	39	LEU
1	D	46	LYS
1	D	47	MET
1	D	48	LEU
1	D	57	VAL
1	D	58	THR
1	D	64	ILE
1	D	65	LEU
1	D	72	HIS
1	D	87	LYS
1	D	88	GLU
1	D	93	THR
1	D	95	THR
1	D	104	LEU
1	D	105	ARG
1	D	108	GLU
1	D	110	LEU
1	D	120	VAL
1	D	125	GLN
1	D	134	LEU
1	D	137	THR
1	D	141	GLU
1	D	147	LYS
1	D	149	ILE
1	D	150	LEU
1	D	153	ILE

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Mol	Chain	Res	Type
1	D	155	MET
1	D	161	LYS
1	D	170	LEU
1	D	174	ILE
1	D	176	GLU
1	D	182	VAL
1	D	194	LYS
1	D	208	LEU
1	D	209	ILE
1	D	210	LYS
1	D	212	VAL
1	D	213	LEU
1	D	234	LEU
1	D	235	LEU
1	D	240	GLU
1	D	241	ILE
1	D	242	LYS
1	D	243	GLU
1	D	245	GLU
1	D	265	GLU
1	D	269	LEU
1	D	277	LYS
1	D	284	LEU
1	D	290	ILE
1	D	293	LEU
1	D	296	HIS
1	D	298	LEU
1	D	307	ARG
1	D	311	LYS
1	D	315	GLU
1	D	316	LYS
1	D	317	LEU
1	D	321	THR
1	D	326	ILE
1	D	330	LYS
1	D	332	LEU
1	D	342	LEU
1	D	346	ARG
1	D	353	MET
1	D	356	VAL
1	D	357	GLU
1	D	363	LYS

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Mol	Chain	Res	Type
1	D	368	LEU
1	D	382	ARG
1	D	399	ARG
1	D	400	ILE
1	D	411	LEU
1	D	412	SER
1	D	415	LEU
1	D	427	GLN
1	D	428	LEU
1	D	431	ARG
1	D	438	GLU
1	D	444	LEU
1	D	453	ILE
1	D	459	VAL
1	D	485	GLU
1	D	486	ASN
1	D	488	VAL
1	D	489	VAL
1	D	500	GLN
1	D	509	LEU
1	D	510	LEU
1	D	516	ILE
1	D	519	GLU
1	D	520	LYS
1	D	521	LEU
1	D	527	MET
1	D	530	MET
1	E	7	VAL
1	E	10	GLU
1	E	11	ASN
1	E	14	ARG
1	E	22	ARG
1	E	33	GLU
1	E	36	ARG
1	E	39	LEU
1	E	46	LYS
1	E	47	MET
1	E	48	LEU
1	E	57	VAL
1	E	58	THR
1	E	64	ILE
1	E	65	LEU

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Mol	Chain	Res	Type
1	E	72	HIS
1	E	87	LYS
1	E	88	GLU
1	E	93	THR
1	E	95	THR
1	E	104	LEU
1	E	105	ARG
1	E	108	GLU
1	E	110	LEU
1	E	120	VAL
1	E	125	GLN
1	E	134	LEU
1	E	137	THR
1	E	141	GLU
1	E	147	LYS
1	E	149	ILE
1	E	150	LEU
1	E	153	ILE
1	E	155	MET
1	E	161	LYS
1	E	170	LEU
1	E	174	ILE
1	E	176	GLU
1	E	182	VAL
1	E	194	LYS
1	E	208	LEU
1	E	209	ILE
1	E	210	LYS
1	E	212	VAL
1	E	213	LEU
1	E	234	LEU
1	E	235	LEU
1	E	240	GLU
1	E	241	ILE
1	E	242	LYS
1	E	243	GLU
1	E	245	GLU
1	E	265	GLU
1	E	269	LEU
1	E	277	LYS
1	E	284	LEU
1	E	290	ILE

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Mol	Chain	Res	Type
1	E	293	LEU
1	E	296	HIS
1	E	298	LEU
1	E	307	ARG
1	E	311	LYS
1	E	315	GLU
1	E	316	LYS
1	E	317	LEU
1	E	321	THR
1	E	326	ILE
1	E	330	LYS
1	E	332	LEU
1	E	342	LEU
1	E	346	ARG
1	E	353	MET
1	E	356	VAL
1	E	357	GLU
1	E	363	LYS
1	E	368	LEU
1	E	382	ARG
1	E	399	ARG
1	E	400	ILE
1	E	411	LEU
1	E	412	SER
1	E	415	LEU
1	E	427	GLN
1	E	428	LEU
1	E	431	ARG
1	E	438	GLU
1	E	444	LEU
1	E	453	ILE
1	E	459	VAL
1	E	485	GLU
1	E	486	ASN
1	E	488	VAL
1	E	489	VAL
1	E	500	GLN
1	E	509	LEU
1	E	510	LEU
1	E	516	ILE
1	E	519	GLU
1	E	520	LYS

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Mol	Chain	Res	Type
1	E	521	LEU
1	E	527	MET
1	E	530	MET
1	F	7	VAL
1	F	10	GLU
1	F	11	ASN
1	F	14	ARG
1	F	22	ARG
1	F	33	GLU
1	F	36	ARG
1	F	39	LEU
1	F	46	LYS
1	F	47	MET
1	F	48	LEU
1	F	57	VAL
1	F	58	THR
1	F	64	ILE
1	F	65	LEU
1	F	72	HIS
1	F	87	LYS
1	F	88	GLU
1	F	93	THR
1	F	95	THR
1	F	104	LEU
1	F	105	ARG
1	F	108	GLU
1	F	110	LEU
1	F	120	VAL
1	F	125	GLN
1	F	134	LEU
1	F	137	THR
1	F	141	GLU
1	F	147	LYS
1	F	149	ILE
1	F	150	LEU
1	F	153	ILE
1	F	155	MET
1	F	161	LYS
1	F	170	LEU
1	F	174	ILE
1	F	176	GLU
1	F	182	VAL

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Mol	Chain	Res	Type
1	F	194	LYS
1	F	208	LEU
1	F	209	ILE
1	F	210	LYS
1	F	212	VAL
1	F	213	LEU
1	F	234	LEU
1	F	235	LEU
1	F	240	GLU
1	F	241	ILE
1	F	242	LYS
1	F	243	GLU
1	F	245	GLU
1	F	265	GLU
1	F	269	LEU
1	F	277	LYS
1	F	284	LEU
1	F	290	ILE
1	F	293	LEU
1	F	296	HIS
1	F	298	LEU
1	F	307	ARG
1	F	311	LYS
1	F	315	GLU
1	F	316	LYS
1	F	317	LEU
1	F	321	THR
1	F	326	ILE
1	F	330	LYS
1	F	332	LEU
1	F	342	LEU
1	F	346	ARG
1	F	353	MET
1	F	356	VAL
1	F	357	GLU
1	F	363	LYS
1	F	368	LEU
1	F	382	ARG
1	F	399	ARG
1	F	400	ILE
1	F	411	LEU
1	F	412	SER

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Mol	Chain	Res	Type
1	F	415	LEU
1	F	427	GLN
1	F	428	LEU
1	F	431	ARG
1	F	438	GLU
1	F	444	LEU
1	F	453	ILE
1	F	459	VAL
1	F	485	GLU
1	F	486	ASN
1	F	488	VAL
1	F	489	VAL
1	F	500	GLN
1	F	509	LEU
1	F	510	LEU
1	F	516	ILE
1	F	519	GLU
1	F	520	LYS
1	F	521	LEU
1	F	527	MET
1	F	530	MET
1	G	7	VAL
1	G	10	GLU
1	G	11	ASN
1	G	14	ARG
1	G	22	ARG
1	G	33	GLU
1	G	36	ARG
1	G	39	LEU
1	G	46	LYS
1	G	47	MET
1	G	48	LEU
1	G	57	VAL
1	G	58	THR
1	G	64	ILE
1	G	65	LEU
1	G	72	HIS
1	G	87	LYS
1	G	88	GLU
1	G	93	THR
1	G	95	THR
1	G	104	LEU

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Mol	Chain	Res	Type
1	G	105	ARG
1	G	108	GLU
1	G	110	LEU
1	G	120	VAL
1	G	125	GLN
1	G	134	LEU
1	G	137	THR
1	G	141	GLU
1	G	147	LYS
1	G	149	ILE
1	G	150	LEU
1	G	153	ILE
1	G	155	MET
1	G	161	LYS
1	G	170	LEU
1	G	174	ILE
1	G	176	GLU
1	G	182	VAL
1	G	194	LYS
1	G	208	LEU
1	G	209	ILE
1	G	210	LYS
1	G	212	VAL
1	G	213	LEU
1	G	234	LEU
1	G	235	LEU
1	G	240	GLU
1	G	241	ILE
1	G	242	LYS
1	G	243	GLU
1	G	245	GLU
1	G	265	GLU
1	G	269	LEU
1	G	277	LYS
1	G	284	LEU
1	G	290	ILE
1	G	293	LEU
1	G	296	HIS
1	G	298	LEU
1	G	307	ARG
1	G	311	LYS
1	G	315	GLU

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Mol	Chain	Res	Type
1	G	316	LYS
1	G	317	LEU
1	G	321	THR
1	G	326	ILE
1	G	330	LYS
1	G	332	LEU
1	G	342	LEU
1	G	346	ARG
1	G	353	MET
1	G	356	VAL
1	G	357	GLU
1	G	363	LYS
1	G	368	LEU
1	G	382	ARG
1	G	399	ARG
1	G	400	ILE
1	G	411	LEU
1	G	412	SER
1	G	415	LEU
1	G	427	GLN
1	G	428	LEU
1	G	431	ARG
1	G	438	GLU
1	G	444	LEU
1	G	453	ILE
1	G	459	VAL
1	G	485	GLU
1	G	486	ASN
1	G	488	VAL
1	G	489	VAL
1	G	500	GLN
1	G	509	LEU
1	G	510	LEU
1	G	516	ILE
1	G	519	GLU
1	G	520	LYS
1	G	521	LEU
1	G	527	MET
1	G	530	MET
1	H	7	VAL
1	H	10	GLU
1	H	11	ASN

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Mol	Chain	Res	Type
1	H	14	ARG
1	H	22	ARG
1	H	33	GLU
1	H	36	ARG
1	H	39	LEU
1	H	46	LYS
1	H	47	MET
1	H	48	LEU
1	H	57	VAL
1	H	58	THR
1	H	64	ILE
1	H	65	LEU
1	H	72	HIS
1	H	87	LYS
1	H	88	GLU
1	H	93	THR
1	H	95	THR
1	H	104	LEU
1	H	105	ARG
1	H	108	GLU
1	H	110	LEU
1	H	120	VAL
1	H	125	GLN
1	H	134	LEU
1	H	137	THR
1	H	141	GLU
1	H	147	LYS
1	H	149	ILE
1	H	150	LEU
1	H	153	ILE
1	H	155	MET
1	H	161	LYS
1	H	170	LEU
1	H	174	ILE
1	H	176	GLU
1	H	182	VAL
1	H	194	LYS
1	H	208	LEU
1	H	209	ILE
1	H	210	LYS
1	H	212	VAL
1	H	213	LEU

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Mol	Chain	Res	Type
1	H	234	LEU
1	H	235	LEU
1	H	240	GLU
1	H	241	ILE
1	H	242	LYS
1	H	243	GLU
1	H	245	GLU
1	H	265	GLU
1	H	269	LEU
1	H	277	LYS
1	H	284	LEU
1	H	290	ILE
1	H	293	LEU
1	H	296	HIS
1	H	298	LEU
1	H	307	ARG
1	H	311	LYS
1	H	315	GLU
1	H	316	LYS
1	H	317	LEU
1	H	321	THR
1	H	326	ILE
1	H	330	LYS
1	H	332	LEU
1	H	342	LEU
1	H	346	ARG
1	H	353	MET
1	H	356	VAL
1	H	357	GLU
1	H	363	LYS
1	H	368	LEU
1	H	382	ARG
1	H	399	ARG
1	H	400	ILE
1	H	411	LEU
1	H	412	SER
1	H	415	LEU
1	H	427	GLN
1	H	428	LEU
1	H	431	ARG
1	H	438	GLU
1	H	444	LEU

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Mol	Chain	Res	Type
1	H	453	ILE
1	H	459	VAL
1	H	485	GLU
1	H	486	ASN
1	H	488	VAL
1	H	489	VAL
1	H	500	GLN
1	H	509	LEU
1	H	510	LEU
1	H	516	ILE
1	H	519	GLU
1	H	520	LYS
1	H	521	LEU
1	H	527	MET
1	H	530	MET
1	I	7	VAL
1	I	10	GLU
1	I	11	ASN
1	I	14	ARG
1	I	22	ARG
1	I	33	GLU
1	I	36	ARG
1	I	39	LEU
1	I	46	LYS
1	I	47	MET
1	I	48	LEU
1	I	57	VAL
1	I	58	THR
1	I	64	ILE
1	I	65	LEU
1	I	72	HIS
1	I	87	LYS
1	I	88	GLU
1	I	93	THR
1	I	95	THR
1	I	104	LEU
1	I	105	ARG
1	I	108	GLU
1	I	110	LEU
1	I	120	VAL
1	I	125	GLN
1	I	134	LEU

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Mol	Chain	Res	Type
1	I	137	THR
1	I	141	GLU
1	I	147	LYS
1	I	149	ILE
1	I	150	LEU
1	I	153	ILE
1	I	155	MET
1	I	161	LYS
1	I	170	LEU
1	I	174	ILE
1	I	176	GLU
1	I	182	VAL
1	I	194	LYS
1	I	208	LEU
1	I	209	ILE
1	I	210	LYS
1	I	212	VAL
1	I	213	LEU
1	I	234	LEU
1	I	235	LEU
1	I	240	GLU
1	I	241	ILE
1	I	242	LYS
1	I	243	GLU
1	I	245	GLU
1	I	265	GLU
1	I	269	LEU
1	I	277	LYS
1	I	284	LEU
1	I	290	ILE
1	I	293	LEU
1	I	296	HIS
1	I	298	LEU
1	I	307	ARG
1	I	311	LYS
1	I	315	GLU
1	I	316	LYS
1	I	317	LEU
1	I	321	THR
1	I	326	ILE
1	I	330	LYS
1	I	332	LEU

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Mol	Chain	Res	Type
1	I	342	LEU
1	I	346	ARG
1	I	353	MET
1	I	356	VAL
1	I	357	GLU
1	I	363	LYS
1	I	368	LEU
1	I	382	ARG
1	I	399	ARG
1	I	400	ILE
1	I	411	LEU
1	I	412	SER
1	I	415	LEU
1	I	427	GLN
1	I	428	LEU
1	I	431	ARG
1	I	438	GLU
1	I	444	LEU
1	I	453	ILE
1	I	459	VAL
1	I	485	GLU
1	I	486	ASN
1	I	488	VAL
1	I	489	VAL
1	I	500	GLN
1	I	509	LEU
1	I	510	LEU
1	I	516	ILE
1	I	519	GLU
1	I	520	LYS
1	I	521	LEU
1	I	527	MET
1	I	530	MET
1	J	7	VAL
1	J	10	GLU
1	J	11	ASN
1	J	14	ARG
1	J	22	ARG
1	J	33	GLU
1	J	36	ARG
1	J	39	LEU
1	J	46	LYS

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Mol	Chain	Res	Type
1	J	47	MET
1	J	48	LEU
1	J	57	VAL
1	J	58	THR
1	J	64	ILE
1	J	65	LEU
1	J	72	HIS
1	J	87	LYS
1	J	88	GLU
1	J	93	THR
1	J	95	THR
1	J	104	LEU
1	J	105	ARG
1	J	108	GLU
1	J	110	LEU
1	J	120	VAL
1	J	125	GLN
1	J	134	LEU
1	J	137	THR
1	J	141	GLU
1	J	147	LYS
1	J	149	ILE
1	J	150	LEU
1	J	153	ILE
1	J	155	MET
1	J	161	LYS
1	J	170	LEU
1	J	174	ILE
1	J	176	GLU
1	J	182	VAL
1	J	194	LYS
1	J	208	LEU
1	J	209	ILE
1	J	210	LYS
1	J	212	VAL
1	J	213	LEU
1	J	234	LEU
1	J	235	LEU
1	J	240	GLU
1	J	241	ILE
1	J	242	LYS
1	J	243	GLU

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Mol	Chain	Res	Type
1	J	245	GLU
1	J	265	GLU
1	J	269	LEU
1	J	277	LYS
1	J	284	LEU
1	J	290	ILE
1	J	293	LEU
1	J	296	HIS
1	J	298	LEU
1	J	307	ARG
1	J	311	LYS
1	J	315	GLU
1	J	316	LYS
1	J	317	LEU
1	J	321	THR
1	J	326	ILE
1	J	330	LYS
1	J	332	LEU
1	J	342	LEU
1	J	346	ARG
1	J	353	MET
1	J	356	VAL
1	J	357	GLU
1	J	363	LYS
1	J	368	LEU
1	J	382	ARG
1	J	399	ARG
1	J	400	ILE
1	J	411	LEU
1	J	412	SER
1	J	415	LEU
1	J	427	GLN
1	J	428	LEU
1	J	431	ARG
1	J	438	GLU
1	J	444	LEU
1	J	453	ILE
1	J	459	VAL
1	J	485	GLU
1	J	486	ASN
1	J	488	VAL
1	J	489	VAL

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Mol	Chain	Res	Type
1	J	500	GLN
1	J	509	LEU
1	J	510	LEU
1	J	516	ILE
1	J	519	GLU
1	J	520	LYS
1	J	521	LEU
1	J	527	MET
1	J	530	MET
1	K	7	VAL
1	K	10	GLU
1	K	11	ASN
1	K	14	ARG
1	K	22	ARG
1	K	33	GLU
1	K	36	ARG
1	K	39	LEU
1	K	46	LYS
1	K	47	MET
1	K	48	LEU
1	K	57	VAL
1	K	58	THR
1	K	64	ILE
1	K	65	LEU
1	K	72	HIS
1	K	87	LYS
1	K	88	GLU
1	K	93	THR
1	K	95	THR
1	K	104	LEU
1	K	105	ARG
1	K	108	GLU
1	K	110	LEU
1	K	120	VAL
1	K	125	GLN
1	K	134	LEU
1	K	137	THR
1	K	141	GLU
1	K	147	LYS
1	K	149	ILE
1	K	150	LEU
1	K	153	ILE

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Mol	Chain	Res	Type
1	K	155	MET
1	K	161	LYS
1	K	170	LEU
1	K	174	ILE
1	K	176	GLU
1	K	182	VAL
1	K	194	LYS
1	K	208	LEU
1	K	209	ILE
1	K	210	LYS
1	K	212	VAL
1	K	213	LEU
1	K	234	LEU
1	K	235	LEU
1	K	240	GLU
1	K	241	ILE
1	K	242	LYS
1	K	243	GLU
1	K	245	GLU
1	K	265	GLU
1	K	269	LEU
1	K	277	LYS
1	K	284	LEU
1	K	290	ILE
1	K	293	LEU
1	K	296	HIS
1	K	298	LEU
1	K	307	ARG
1	K	311	LYS
1	K	315	GLU
1	K	316	LYS
1	K	317	LEU
1	K	321	THR
1	K	326	ILE
1	K	330	LYS
1	K	332	LEU
1	K	342	LEU
1	K	346	ARG
1	K	353	MET
1	K	356	VAL
1	K	357	GLU
1	K	363	LYS

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Mol	Chain	Res	Type
1	K	368	LEU
1	K	382	ARG
1	K	399	ARG
1	K	400	ILE
1	K	411	LEU
1	K	412	SER
1	K	415	LEU
1	K	427	GLN
1	K	428	LEU
1	K	431	ARG
1	K	438	GLU
1	K	444	LEU
1	K	453	ILE
1	K	459	VAL
1	K	485	GLU
1	K	486	ASN
1	K	488	VAL
1	K	489	VAL
1	K	500	GLN
1	K	509	LEU
1	K	510	LEU
1	K	516	ILE
1	K	519	GLU
1	K	520	LYS
1	K	521	LEU
1	K	527	MET
1	K	530	MET
1	L	7	VAL
1	L	10	GLU
1	L	11	ASN
1	L	14	ARG
1	L	22	ARG
1	L	33	GLU
1	L	36	ARG
1	L	39	LEU
1	L	46	LYS
1	L	47	MET
1	L	48	LEU
1	L	57	VAL
1	L	58	THR
1	L	64	ILE
1	L	65	LEU

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Mol	Chain	Res	Type
1	L	72	HIS
1	L	87	LYS
1	L	88	GLU
1	L	93	THR
1	L	95	THR
1	L	104	LEU
1	L	105	ARG
1	L	108	GLU
1	L	110	LEU
1	L	120	VAL
1	L	125	GLN
1	L	134	LEU
1	L	137	THR
1	L	141	GLU
1	L	147	LYS
1	L	149	ILE
1	L	150	LEU
1	L	153	ILE
1	L	155	MET
1	L	161	LYS
1	L	170	LEU
1	L	174	ILE
1	L	176	GLU
1	L	182	VAL
1	L	194	LYS
1	L	208	LEU
1	L	209	ILE
1	L	210	LYS
1	L	212	VAL
1	L	213	LEU
1	L	234	LEU
1	L	235	LEU
1	L	240	GLU
1	L	241	ILE
1	L	242	LYS
1	L	243	GLU
1	L	245	GLU
1	L	265	GLU
1	L	269	LEU
1	L	277	LYS
1	L	284	LEU
1	L	290	ILE

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Mol	Chain	Res	Type
1	L	293	LEU
1	L	296	HIS
1	L	298	LEU
1	L	307	ARG
1	L	311	LYS
1	L	315	GLU
1	L	316	LYS
1	L	317	LEU
1	L	321	THR
1	L	326	ILE
1	L	330	LYS
1	L	332	LEU
1	L	342	LEU
1	L	346	ARG
1	L	353	MET
1	L	356	VAL
1	L	357	GLU
1	L	363	LYS
1	L	368	LEU
1	L	382	ARG
1	L	399	ARG
1	L	400	ILE
1	L	411	LEU
1	L	412	SER
1	L	415	LEU
1	L	427	GLN
1	L	428	LEU
1	L	431	ARG
1	L	438	GLU
1	L	444	LEU
1	L	453	ILE
1	L	459	VAL
1	L	485	GLU
1	L	486	ASN
1	L	488	VAL
1	L	489	VAL
1	L	500	GLN
1	L	509	LEU
1	L	510	LEU
1	L	516	ILE
1	L	519	GLU
1	L	520	LYS

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Mol	Chain	Res	Type
1	L	521	LEU
1	L	527	MET
1	L	530	MET
1	M	7	VAL
1	M	10	GLU
1	M	11	ASN
1	M	14	ARG
1	M	22	ARG
1	M	33	GLU
1	M	36	ARG
1	M	39	LEU
1	M	46	LYS
1	M	47	MET
1	M	48	LEU
1	M	57	VAL
1	M	58	THR
1	M	64	ILE
1	M	65	LEU
1	M	72	HIS
1	M	87	LYS
1	M	88	GLU
1	M	93	THR
1	M	95	THR
1	M	104	LEU
1	M	105	ARG
1	M	108	GLU
1	M	110	LEU
1	M	120	VAL
1	M	125	GLN
1	M	134	LEU
1	M	137	THR
1	M	141	GLU
1	M	147	LYS
1	M	149	ILE
1	M	150	LEU
1	M	153	ILE
1	M	155	MET
1	M	161	LYS
1	M	170	LEU
1	M	174	ILE
1	M	176	GLU
1	M	182	VAL

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Mol	Chain	Res	Type
1	M	194	LYS
1	M	208	LEU
1	M	209	ILE
1	M	210	LYS
1	M	212	VAL
1	M	213	LEU
1	M	234	LEU
1	M	235	LEU
1	M	240	GLU
1	M	241	ILE
1	M	242	LYS
1	M	243	GLU
1	M	245	GLU
1	M	265	GLU
1	M	269	LEU
1	M	277	LYS
1	M	284	LEU
1	M	290	ILE
1	M	293	LEU
1	M	296	HIS
1	M	298	LEU
1	M	307	ARG
1	M	311	LYS
1	M	315	GLU
1	M	316	LYS
1	M	317	LEU
1	M	321	THR
1	M	326	ILE
1	M	330	LYS
1	M	332	LEU
1	M	342	LEU
1	M	346	ARG
1	M	353	MET
1	M	356	VAL
1	M	357	GLU
1	M	363	LYS
1	M	368	LEU
1	M	382	ARG
1	M	399	ARG
1	M	400	ILE
1	M	411	LEU
1	M	412	SER

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Mol	Chain	Res	Type
1	M	415	LEU
1	M	427	GLN
1	M	428	LEU
1	M	431	ARG
1	M	438	GLU
1	M	444	LEU
1	M	453	ILE
1	M	459	VAL
1	M	485	GLU
1	M	486	ASN
1	M	488	VAL
1	M	489	VAL
1	M	500	GLN
1	M	509	LEU
1	M	510	LEU
1	M	516	ILE
1	M	519	GLU
1	M	520	LYS
1	M	521	LEU
1	M	527	MET
1	M	530	MET
1	N	7	VAL
1	N	10	GLU
1	N	11	ASN
1	N	14	ARG
1	N	22	ARG
1	N	33	GLU
1	N	36	ARG
1	N	39	LEU
1	N	46	LYS
1	N	47	MET
1	N	48	LEU
1	N	57	VAL
1	N	58	THR
1	N	64	ILE
1	N	65	LEU
1	N	72	HIS
1	N	87	LYS
1	N	88	GLU
1	N	93	THR
1	N	95	THR
1	N	104	LEU

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Mol	Chain	Res	Type
1	N	105	ARG
1	N	108	GLU
1	N	110	LEU
1	N	120	VAL
1	N	125	GLN
1	N	134	LEU
1	N	137	THR
1	N	141	GLU
1	N	147	LYS
1	N	149	ILE
1	N	150	LEU
1	N	153	ILE
1	N	155	MET
1	N	161	LYS
1	N	170	LEU
1	N	174	ILE
1	N	176	GLU
1	N	182	VAL
1	N	194	LYS
1	N	208	LEU
1	N	209	ILE
1	N	210	LYS
1	N	212	VAL
1	N	213	LEU
1	N	234	LEU
1	N	235	LEU
1	N	240	GLU
1	N	241	ILE
1	N	242	LYS
1	N	243	GLU
1	N	245	GLU
1	N	265	GLU
1	N	269	LEU
1	N	277	LYS
1	N	284	LEU
1	N	290	ILE
1	N	293	LEU
1	N	296	HIS
1	N	298	LEU
1	N	307	ARG
1	N	311	LYS
1	N	315	GLU

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Mol	Chain	Res	Type
1	N	316	LYS
1	N	317	LEU
1	N	321	THR
1	N	326	ILE
1	N	330	LYS
1	N	332	LEU
1	N	342	LEU
1	N	346	ARG
1	N	353	MET
1	N	356	VAL
1	N	357	GLU
1	N	363	LYS
1	N	368	LEU
1	N	382	ARG
1	N	399	ARG
1	N	400	ILE
1	N	411	LEU
1	N	412	SER
1	N	415	LEU
1	N	427	GLN
1	N	428	LEU
1	N	431	ARG
1	N	438	GLU
1	N	444	LEU
1	N	453	ILE
1	N	459	VAL
1	N	485	GLU
1	N	486	ASN
1	N	488	VAL
1	N	489	VAL
1	N	500	GLN
1	N	509	LEU
1	N	510	LEU
1	N	516	ILE
1	N	519	GLU
1	N	520	LYS
1	N	521	LEU
1	N	527	MET
1	N	530	MET
1	O	7	VAL
1	O	10	GLU
1	O	11	ASN

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Mol	Chain	Res	Type
1	O	14	ARG
1	O	22	ARG
1	O	33	GLU
1	O	36	ARG
1	O	39	LEU
1	O	46	LYS
1	O	47	MET
1	O	48	LEU
1	O	57	VAL
1	O	58	THR
1	O	64	ILE
1	O	65	LEU
1	O	72	HIS
1	O	87	LYS
1	O	88	GLU
1	O	93	THR
1	O	95	THR
1	O	104	LEU
1	O	105	ARG
1	O	108	GLU
1	O	110	LEU
1	O	120	VAL
1	O	125	GLN
1	O	134	LEU
1	O	137	THR
1	O	141	GLU
1	O	147	LYS
1	O	149	ILE
1	O	150	LEU
1	O	153	ILE
1	O	155	MET
1	O	161	LYS
1	O	170	LEU
1	O	174	ILE
1	O	176	GLU
1	O	182	VAL
1	O	194	LYS
1	O	208	LEU
1	O	209	ILE
1	O	210	LYS
1	O	212	VAL
1	O	213	LEU

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Mol	Chain	Res	Type
1	O	234	LEU
1	O	235	LEU
1	O	240	GLU
1	O	241	ILE
1	O	242	LYS
1	O	243	GLU
1	O	245	GLU
1	O	265	GLU
1	O	269	LEU
1	O	277	LYS
1	O	284	LEU
1	O	290	ILE
1	O	293	LEU
1	O	296	HIS
1	O	298	LEU
1	O	307	ARG
1	O	311	LYS
1	O	315	GLU
1	O	316	LYS
1	O	317	LEU
1	O	321	THR
1	O	326	ILE
1	O	330	LYS
1	O	332	LEU
1	O	342	LEU
1	O	346	ARG
1	O	353	MET
1	O	356	VAL
1	O	357	GLU
1	O	363	LYS
1	O	368	LEU
1	O	382	ARG
1	O	399	ARG
1	O	400	ILE
1	O	411	LEU
1	O	412	SER
1	O	415	LEU
1	O	427	GLN
1	O	428	LEU
1	O	431	ARG
1	O	438	GLU
1	O	444	LEU

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Mol	Chain	Res	Type
1	O	453	ILE
1	O	459	VAL
1	O	485	GLU
1	O	486	ASN
1	O	488	VAL
1	O	489	VAL
1	O	500	GLN
1	O	509	LEU
1	O	510	LEU
1	O	516	ILE
1	O	519	GLU
1	O	520	LYS
1	O	521	LEU
1	O	527	MET
1	O	530	MET
1	P	7	VAL
1	P	10	GLU
1	P	11	ASN
1	P	14	ARG
1	P	22	ARG
1	P	33	GLU
1	P	36	ARG
1	P	39	LEU
1	P	46	LYS
1	P	47	MET
1	P	48	LEU
1	P	57	VAL
1	P	58	THR
1	P	64	ILE
1	P	65	LEU
1	P	72	HIS
1	P	87	LYS
1	P	88	GLU
1	P	93	THR
1	P	95	THR
1	P	104	LEU
1	P	105	ARG
1	P	108	GLU
1	P	110	LEU
1	P	120	VAL
1	P	125	GLN
1	P	134	LEU

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Mol	Chain	Res	Type
1	P	137	THR
1	P	141	GLU
1	P	147	LYS
1	P	149	ILE
1	P	150	LEU
1	P	153	ILE
1	P	155	MET
1	P	161	LYS
1	P	170	LEU
1	P	174	ILE
1	P	176	GLU
1	P	182	VAL
1	P	194	LYS
1	P	208	LEU
1	P	209	ILE
1	P	210	LYS
1	P	212	VAL
1	P	213	LEU
1	P	234	LEU
1	P	235	LEU
1	P	240	GLU
1	P	241	ILE
1	P	242	LYS
1	P	243	GLU
1	P	245	GLU
1	P	265	GLU
1	P	269	LEU
1	P	277	LYS
1	P	284	LEU
1	P	290	ILE
1	P	293	LEU
1	P	296	HIS
1	P	298	LEU
1	P	307	ARG
1	P	311	LYS
1	P	315	GLU
1	P	316	LYS
1	P	317	LEU
1	P	321	THR
1	P	326	ILE
1	P	330	LYS
1	P	332	LEU

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Mol	Chain	Res	Type
1	P	342	LEU
1	P	346	ARG
1	P	353	MET
1	P	356	VAL
1	P	357	GLU
1	P	363	LYS
1	P	368	LEU
1	P	382	ARG
1	P	399	ARG
1	P	400	ILE
1	P	411	LEU
1	P	412	SER
1	P	415	LEU
1	P	427	GLN
1	P	428	LEU
1	P	431	ARG
1	P	438	GLU
1	P	444	LEU
1	P	453	ILE
1	P	459	VAL
1	P	485	GLU
1	P	486	ASN
1	P	488	VAL
1	P	489	VAL
1	P	500	GLN
1	P	509	LEU
1	P	510	LEU
1	P	516	ILE
1	P	519	GLU
1	P	520	LYS
1	P	521	LEU
1	P	527	MET
1	P	530	MET

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (245) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	4	GLN
1	A	11	ASN
1	A	113	GLN
1	A	114	ASN
1	A	125	GLN

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Mol	Chain	Res	Type
1	A	222	GLN
1	A	236	ASN
1	A	287	GLN
1	A	324	ASN
1	A	427	GLN
1	A	466	ASN
1	A	468	ASN
1	A	486	ASN
1	A	497	GLN
1	A	500	GLN
1	B	4	GLN
1	B	11	ASN
1	B	59	ASN
1	B	113	GLN
1	B	114	ASN
1	B	125	GLN
1	B	222	GLN
1	B	236	ASN
1	B	287	GLN
1	B	324	ASN
1	B	427	GLN
1	B	466	ASN
1	B	468	ASN
1	B	486	ASN
1	B	497	GLN
1	B	500	GLN
1	C	4	GLN
1	C	11	ASN
1	C	113	GLN
1	C	114	ASN
1	C	125	GLN
1	C	222	GLN
1	C	236	ASN
1	C	287	GLN
1	C	324	ASN
1	C	427	GLN
1	C	466	ASN
1	C	468	ASN
1	C	486	ASN
1	C	497	GLN
1	C	500	GLN
1	D	4	GLN

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Mol	Chain	Res	Type
1	D	11	ASN
1	D	113	GLN
1	D	114	ASN
1	D	125	GLN
1	D	222	GLN
1	D	236	ASN
1	D	287	GLN
1	D	324	ASN
1	D	427	GLN
1	D	468	ASN
1	D	486	ASN
1	D	497	GLN
1	D	500	GLN
1	E	4	GLN
1	E	11	ASN
1	E	59	ASN
1	E	113	GLN
1	E	114	ASN
1	E	125	GLN
1	E	222	GLN
1	E	236	ASN
1	E	287	GLN
1	E	324	ASN
1	E	427	GLN
1	E	466	ASN
1	E	468	ASN
1	E	486	ASN
1	E	497	GLN
1	E	500	GLN
1	F	4	GLN
1	F	11	ASN
1	F	59	ASN
1	F	113	GLN
1	F	114	ASN
1	F	125	GLN
1	F	222	GLN
1	F	236	ASN
1	F	287	GLN
1	F	324	ASN
1	F	427	GLN
1	F	466	ASN
1	F	468	ASN

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Mol	Chain	Res	Type
1	F	486	ASN
1	F	497	GLN
1	F	500	GLN
1	G	4	GLN
1	G	11	ASN
1	G	113	GLN
1	G	114	ASN
1	G	125	GLN
1	G	222	GLN
1	G	236	ASN
1	G	287	GLN
1	G	324	ASN
1	G	427	GLN
1	G	466	ASN
1	G	468	ASN
1	G	486	ASN
1	G	497	GLN
1	G	500	GLN
1	H	4	GLN
1	H	11	ASN
1	H	59	ASN
1	H	113	GLN
1	H	114	ASN
1	H	125	GLN
1	H	222	GLN
1	H	236	ASN
1	H	287	GLN
1	H	324	ASN
1	H	427	GLN
1	H	466	ASN
1	H	468	ASN
1	H	486	ASN
1	H	497	GLN
1	H	500	GLN
1	I	4	GLN
1	I	11	ASN
1	I	59	ASN
1	I	113	GLN
1	I	114	ASN
1	I	125	GLN
1	I	222	GLN
1	I	236	ASN

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Mol	Chain	Res	Type
1	I	287	GLN
1	I	324	ASN
1	I	427	GLN
1	I	466	ASN
1	I	468	ASN
1	I	486	ASN
1	I	497	GLN
1	I	500	GLN
1	J	4	GLN
1	J	11	ASN
1	J	113	GLN
1	J	114	ASN
1	J	125	GLN
1	J	222	GLN
1	J	236	ASN
1	J	287	GLN
1	J	324	ASN
1	J	427	GLN
1	J	466	ASN
1	J	468	ASN
1	J	486	ASN
1	J	497	GLN
1	J	500	GLN
1	K	4	GLN
1	K	11	ASN
1	K	113	GLN
1	K	114	ASN
1	K	125	GLN
1	K	222	GLN
1	K	236	ASN
1	K	287	GLN
1	K	324	ASN
1	K	427	GLN
1	K	468	ASN
1	K	486	ASN
1	K	497	GLN
1	K	500	GLN
1	L	4	GLN
1	L	11	ASN
1	L	59	ASN
1	L	113	GLN
1	L	114	ASN

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Mol	Chain	Res	Type
1	L	125	GLN
1	L	222	GLN
1	L	236	ASN
1	L	287	GLN
1	L	324	ASN
1	L	427	GLN
1	L	466	ASN
1	L	468	ASN
1	L	486	ASN
1	L	497	GLN
1	L	500	GLN
1	M	4	GLN
1	M	11	ASN
1	M	59	ASN
1	M	113	GLN
1	M	114	ASN
1	M	125	GLN
1	M	222	GLN
1	M	236	ASN
1	M	287	GLN
1	M	324	ASN
1	M	427	GLN
1	M	468	ASN
1	M	486	ASN
1	M	497	GLN
1	M	500	GLN
1	N	4	GLN
1	N	11	ASN
1	N	113	GLN
1	N	114	ASN
1	N	125	GLN
1	N	222	GLN
1	N	236	ASN
1	N	287	GLN
1	N	324	ASN
1	N	427	GLN
1	N	466	ASN
1	N	468	ASN
1	N	486	ASN
1	N	497	GLN
1	N	500	GLN
1	O	4	GLN

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Mol	Chain	Res	Type
1	O	11	ASN
1	O	59	ASN
1	O	113	GLN
1	O	114	ASN
1	O	125	GLN
1	O	222	GLN
1	O	236	ASN
1	O	287	GLN
1	O	324	ASN
1	O	427	GLN
1	O	466	ASN
1	O	468	ASN
1	O	486	ASN
1	O	497	GLN
1	O	500	GLN
1	P	4	GLN
1	P	11	ASN
1	P	113	GLN
1	P	114	ASN
1	P	125	GLN
1	P	222	GLN
1	P	236	ASN
1	P	287	GLN
1	P	324	ASN
1	P	427	GLN
1	P	466	ASN
1	P	468	ASN
1	P	486	ASN
1	P	497	GLN
1	P	500	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 [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

There are no ligands in this entry.

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

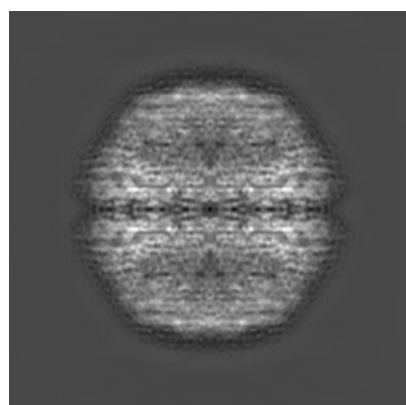
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-5137. These allow visual inspection of the internal detail of the map and identification of artifacts.

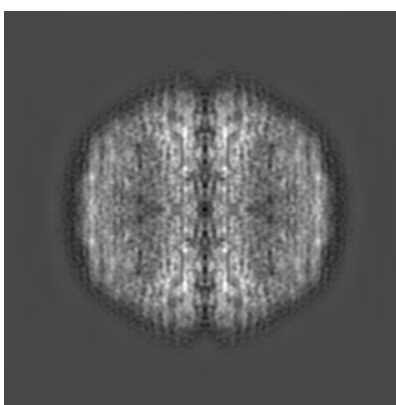
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections [i](#)

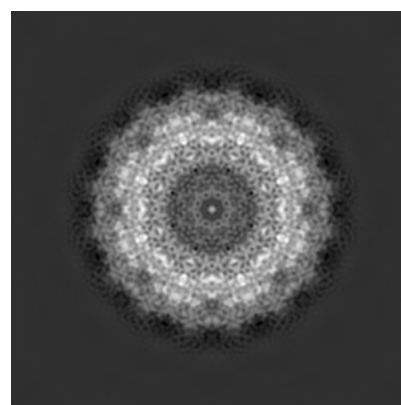
6.1.1 Primary map



X



Y

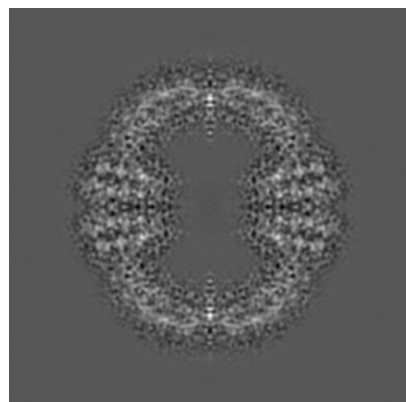


Z

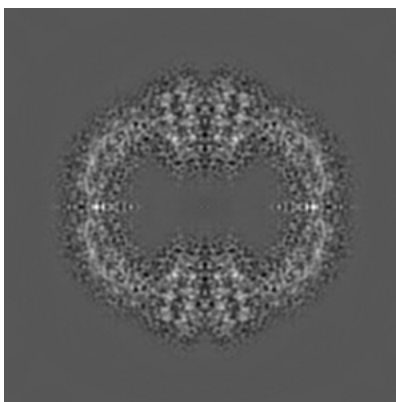
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

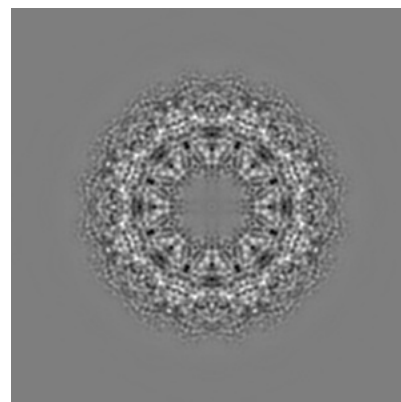
6.2.1 Primary map



X Index: 96



Y Index: 96

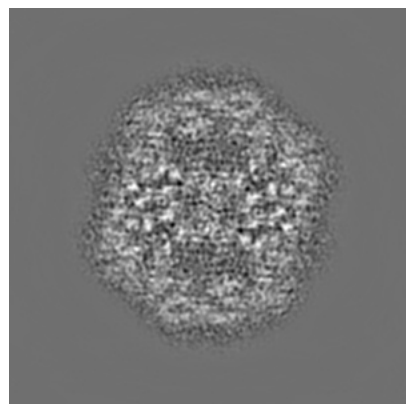


Z Index: 96

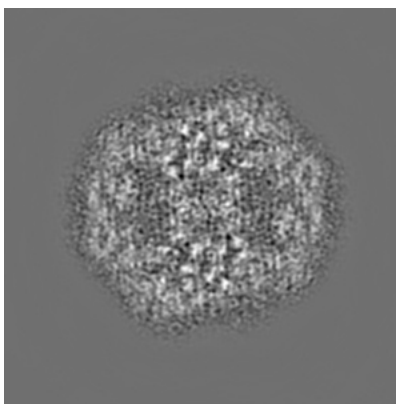
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

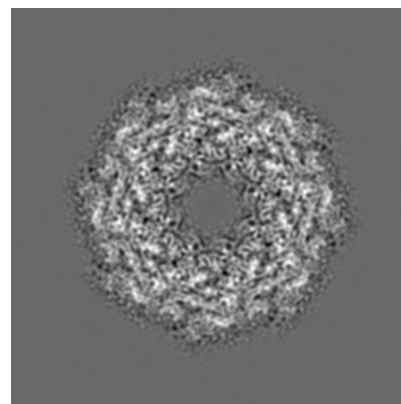
6.3.1 Primary map



X Index: 123



Y Index: 69

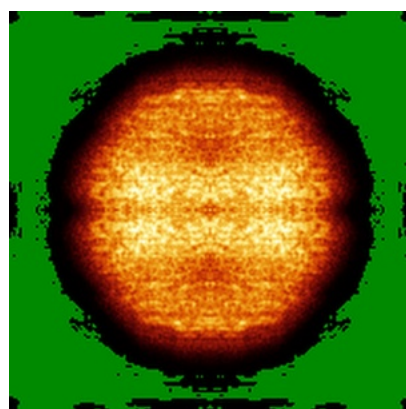


Z Index: 87

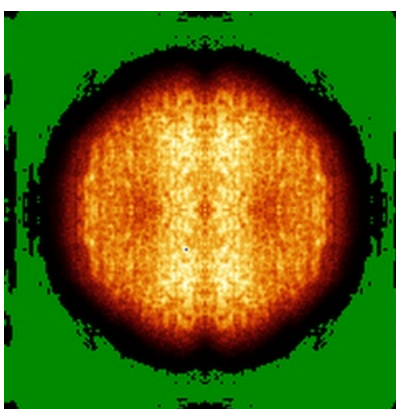
The images above show the largest variance slices of the map in three orthogonal directions.

6.4 Orthogonal standard-deviation projections (False-color) [i](#)

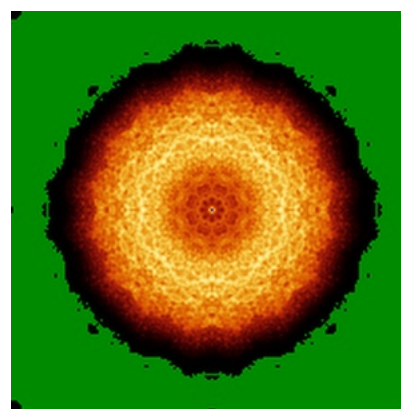
6.4.1 Primary map



X



Y

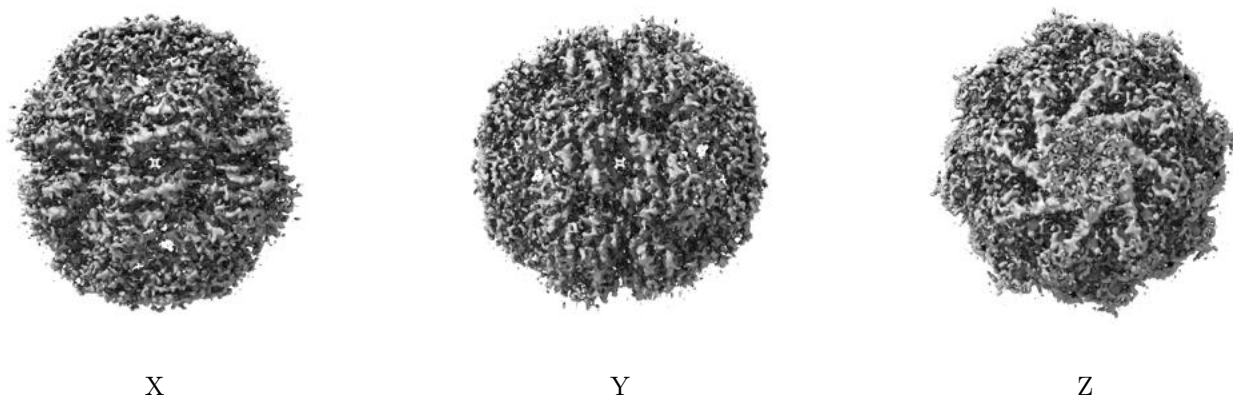


Z

The images above show the map standard deviation projections with false color in three orthogonal directions. Minimum values are shown in green, max in blue, and dark to light orange shades represent small to large values respectively.

6.5 Orthogonal surface views [i](#)

6.5.1 Primary map



The images above show the 3D surface view of the map at the recommended contour level 0.38. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

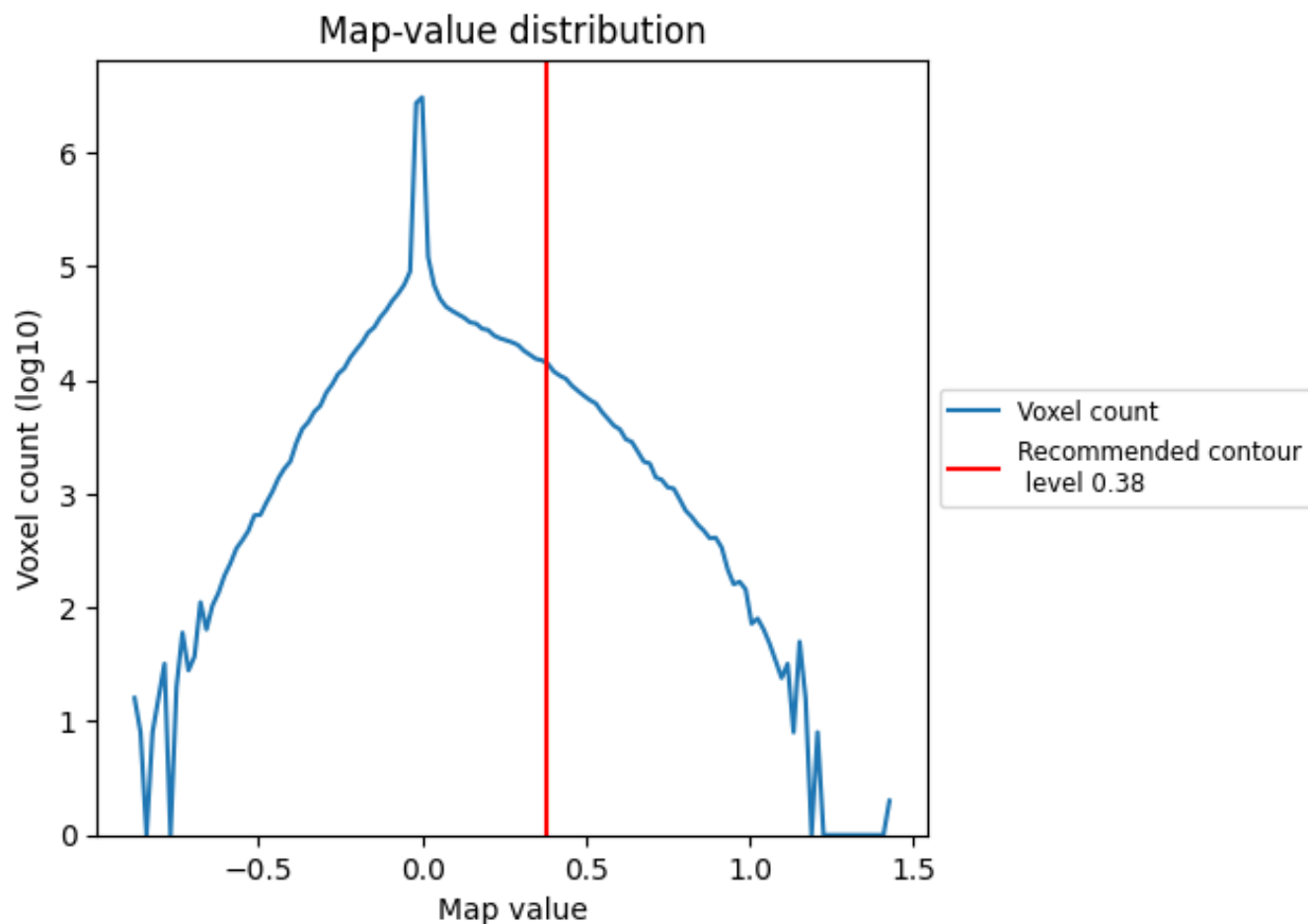
6.6 Mask visualisation [i](#)

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

7 Map analysis [i](#)

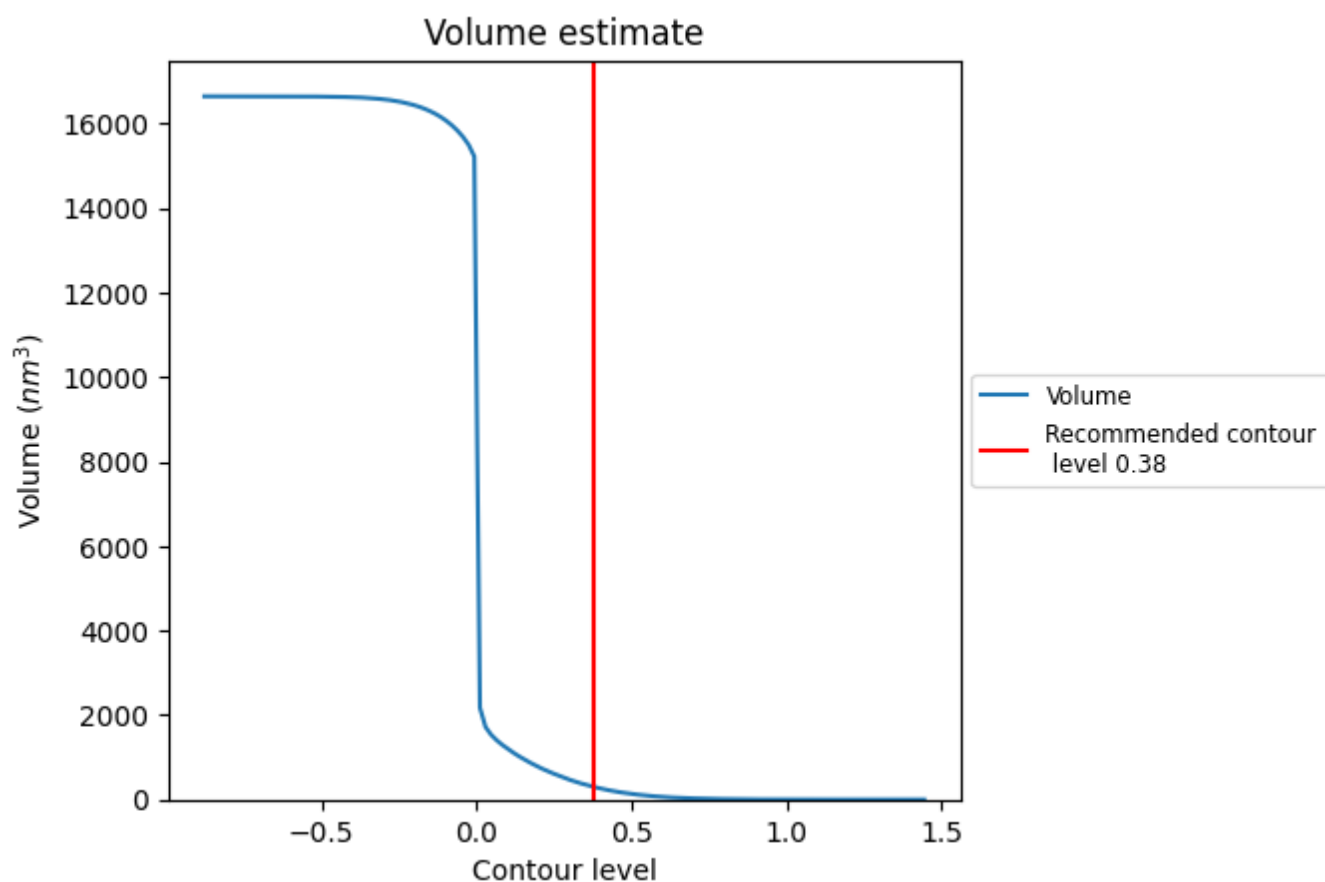
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution [i](#)



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

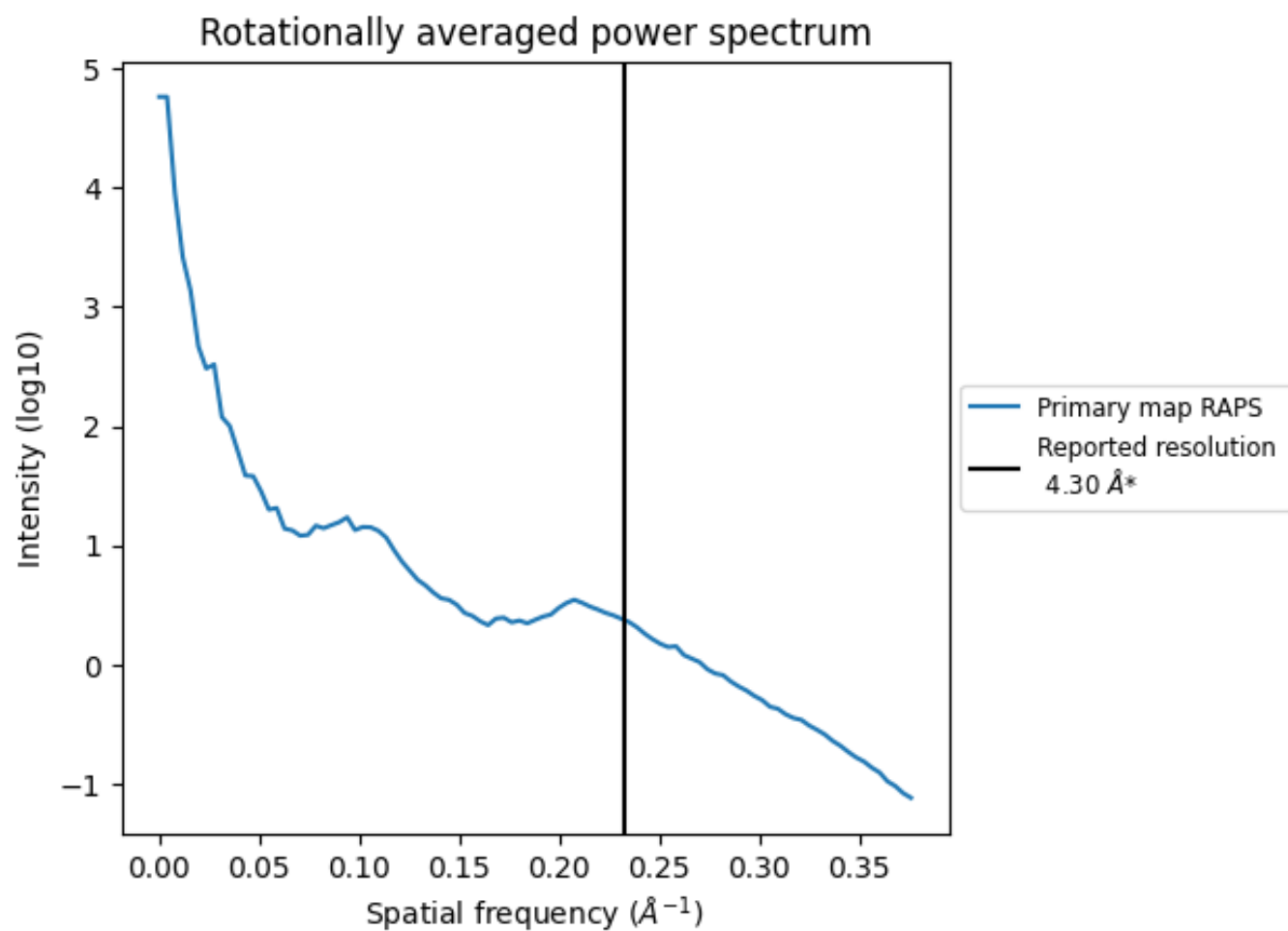
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 298 nm³; this corresponds to an approximate mass of 269 kDa.

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

7.3 Rotationally averaged power spectrum ⓘ



*Reported resolution corresponds to spatial frequency of 0.233 Å⁻¹

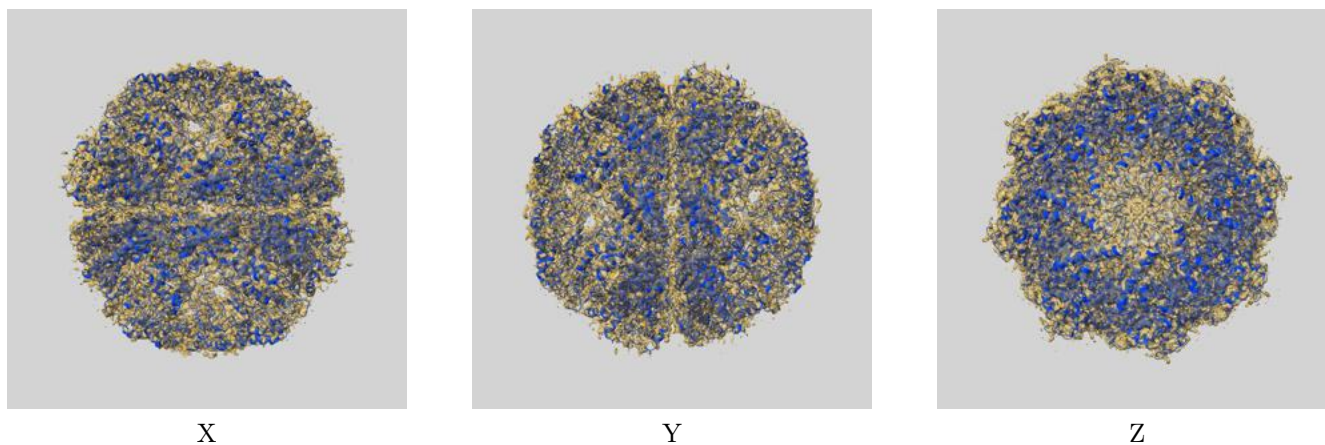
8 Fourier-Shell correlation ⓘ

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

9 Map-model fit [i](#)

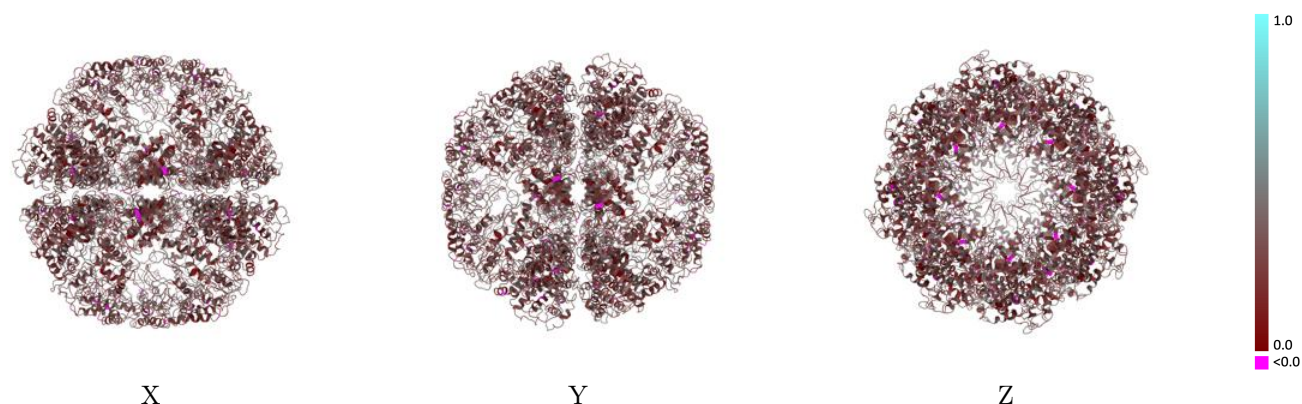
This section contains information regarding the fit between EMDB map EMD-5137 and PDB model 3LOS. Per-residue inclusion information can be found in [section 3](#) on [page 5](#).

9.1 Map-model overlay [i](#)



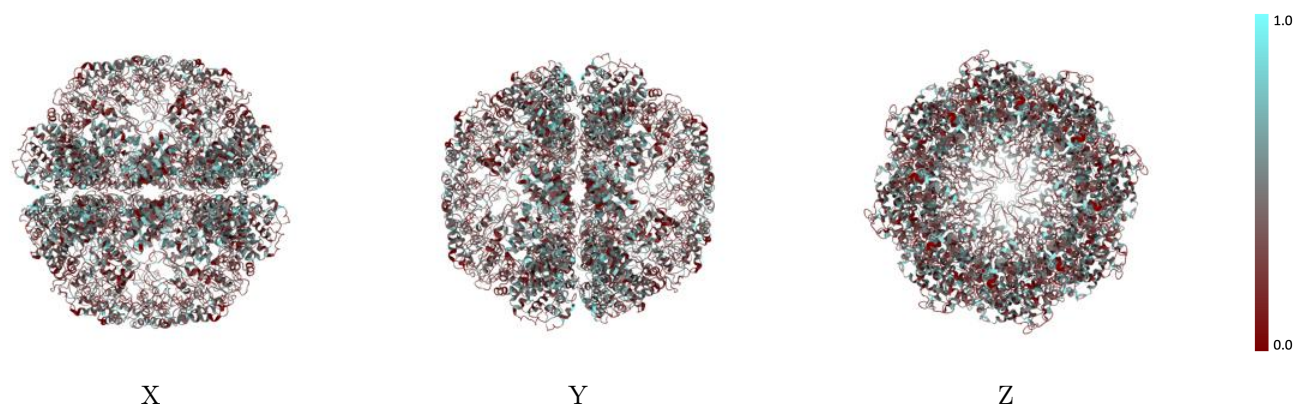
The images above show the 3D surface view of the map at the recommended contour level 0.38 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

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



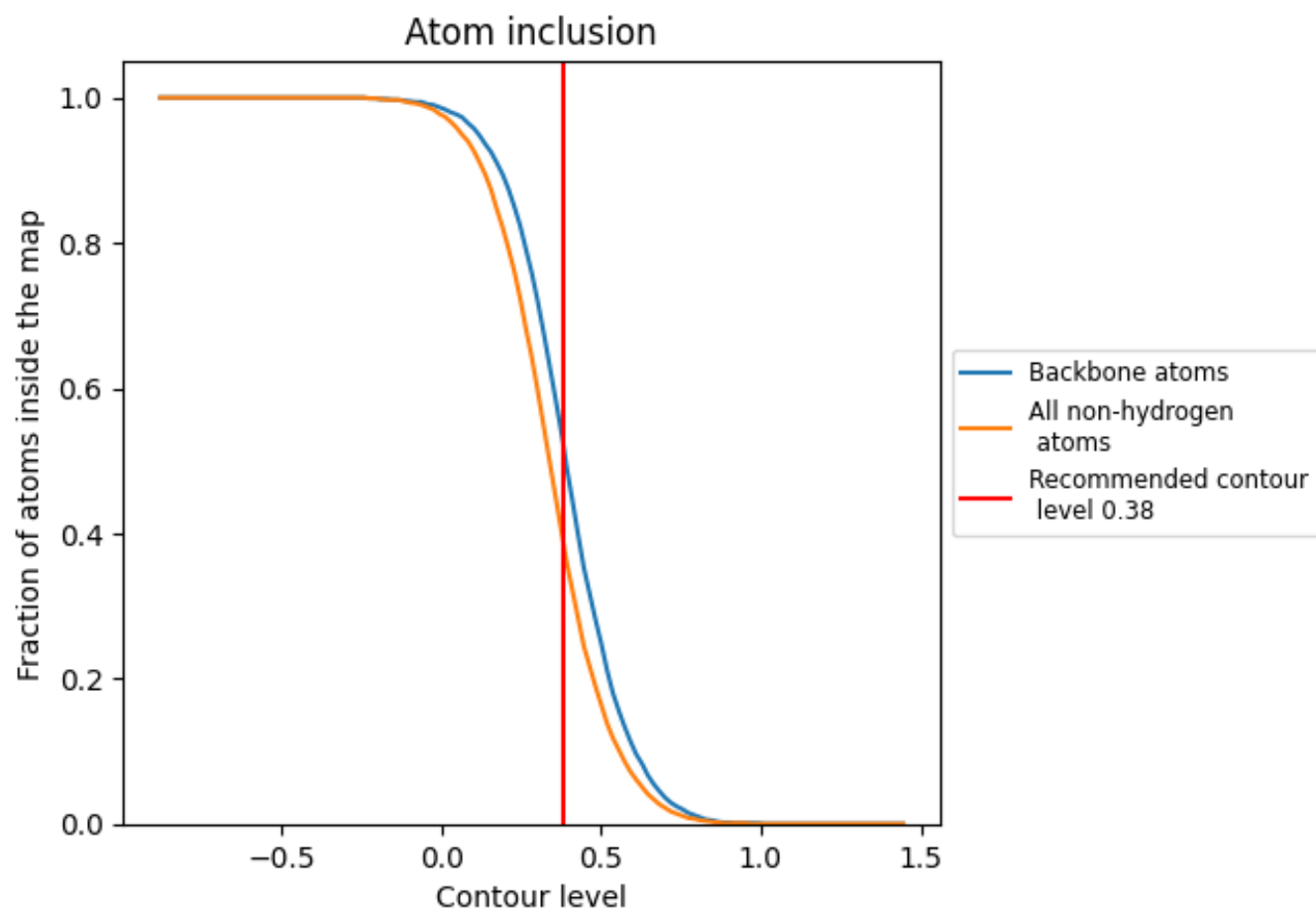
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions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

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



The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (0.38).

9.4 Atom inclusion [i](#)



At the recommended contour level, 53% of all backbone atoms, 39% of all non-hydrogen atoms, are inside the map.

9.5 Map-model fit summary ⓘ

The table lists the average atom inclusion at the recommended contour level (0.38) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	0.3930	0.3030
A	0.3940	0.3050
B	0.3920	0.3020
C	0.3940	0.3040
D	0.3920	0.3010
E	0.3930	0.3030
F	0.3920	0.3010
G	0.3940	0.3040
H	0.3920	0.3020
I	0.3920	0.3010
J	0.3940	0.3040
K	0.3920	0.3020
L	0.3930	0.3040
M	0.3920	0.3020
N	0.3940	0.3040
O	0.3920	0.3010
P	0.3940	0.3040

