



wwPDB EM Map/Model Validation Report ⓘ

Apr 10, 2016 – 02:02 PM BST

PDB ID : 3JBL
EMDB ID: : EMD-6458
Title : Cryo-EM Structure of the Activated NAIP2/NLRC4 Inflammasome Reveals Nucleated Polymerization
Authors : Zhang, L.; Chen, S.; Ruan, J.; Wu, J.; Tong, A.B.; Yin, Q.; Li, Y.; David, L.; Lu, A.; Wang, W.L.; Marks, C.; Ouyang, Q.; Zhang, X.; Mao, Y.; Wu, H.
Deposited on : 2015-09-05
Resolution : 4.50 Å(reported)

This is a wwPDB EM Map/Model Validation Report for a publicly released PDB/EMDB entry.
For rigid body fitted models, validation errors reported here could stem from errors in the original structure(s) used in the fitting.

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

A user guide is available at

<http://wwpdb.org/validation/2016/EMValidationReportHelp>

MolProbity : 4.02b-467
Mogul : 1.7.1 (RC1), CSD as537be (2016)
Percentile statistics : 20151230.v01 (using entries in the PDB archive December 30th 2015)
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et. al. (1996)
Validation Pipeline (wwPDB-VP) : trunk27241

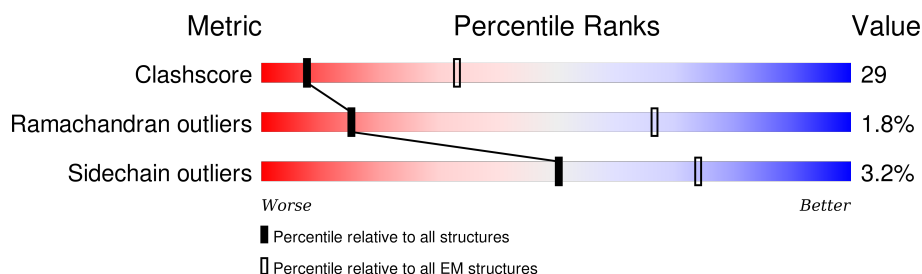
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

ELECTRON MICROSCOPY

The reported resolution of this entry is 4.50 Å.

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



Metric	Whole archive (#Entries)	EM structures (#Entries)
Clashscore	114402	924
Ramachandran outliers	111179	726
Sidechain outliers	111093	686

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

Mol	Chain	Length	Quality of chain
1	A	932	43% 51% . .
1	B	932	43% 51% . .
1	C	932	44% 50% . .
1	D	932	44% 50% . .
1	E	932	44% 50% . .
1	F	932	44% 50% . .
1	G	932	44% 50% . .
1	H	932	43% 50% . .
1	I	932	43% 51% . .

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Mol	Chain	Length	Quality of chain
1	J	932	<div><div></div><div>43%</div><div>51%</div><div></div><div>.</div><div>.</div></div>
1	K	932	<div><div></div><div>43%</div><div>51%</div><div></div><div>.</div><div>.</div></div>

2 Entry composition

There is only 1 type of molecule in this entry. The entry contains 80124 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.

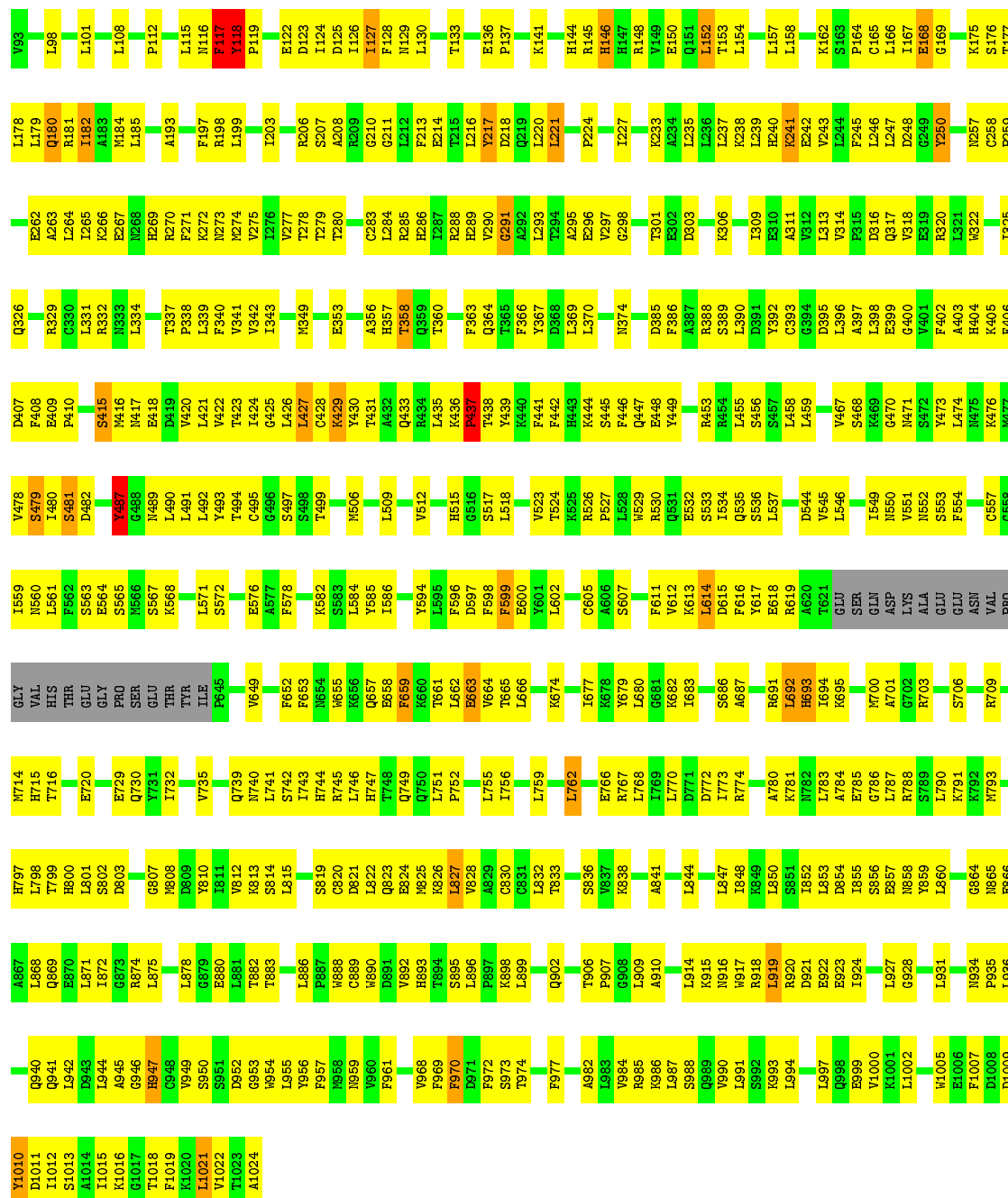
- Molecule 1 is a protein called NLR family CARD domain-containing protein 4.

Mol	Chain	Residues	Atoms						AltConf	Trace
1	K	909	Total	C	N	O	P	S	0	0
			7284	4647	1233	1363	1	40		
1	A	909	Total	C	N	O	P	S	0	0
			7284	4647	1233	1363	1	40		
1	B	909	Total	C	N	O	P	S	0	0
			7284	4647	1233	1363	1	40		
1	C	909	Total	C	N	O	P	S	0	0
			7284	4647	1233	1363	1	40		
1	D	909	Total	C	N	O	P	S	0	0
			7284	4647	1233	1363	1	40		
1	E	909	Total	C	N	O	P	S	0	0
			7284	4647	1233	1363	1	40		
1	F	909	Total	C	N	O	P	S	0	0
			7284	4647	1233	1363	1	40		
1	G	909	Total	C	N	O	P	S	0	0
			7284	4647	1233	1363	1	40		
1	H	909	Total	C	N	O	P	S	0	0
			7284	4647	1233	1363	1	40		
1	I	909	Total	C	N	O	P	S	0	0
			7284	4647	1233	1363	1	40		
1	J	909	Total	C	N	O	P	S	0	0
			7284	4647	1233	1363	1	40		

F1007
D1008
D1009
Y1010
D1011
I1012
S1013
A1014
I1015
K1016
G1017
T1018
F1019
K1020
L1021
V1022
T1023
A1024

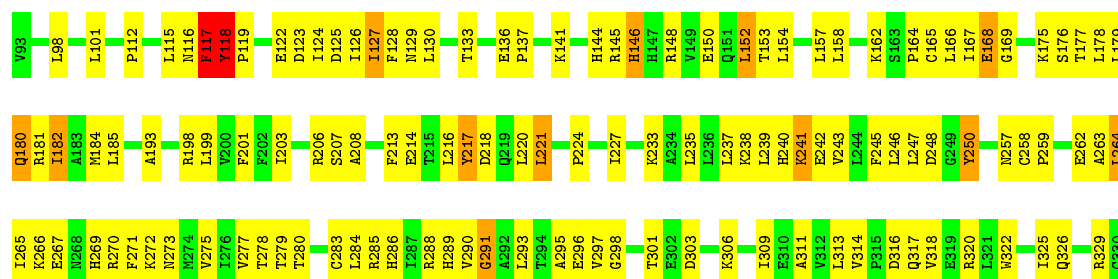
• Molecule 1: NLR family CARD domain-containing protein 4

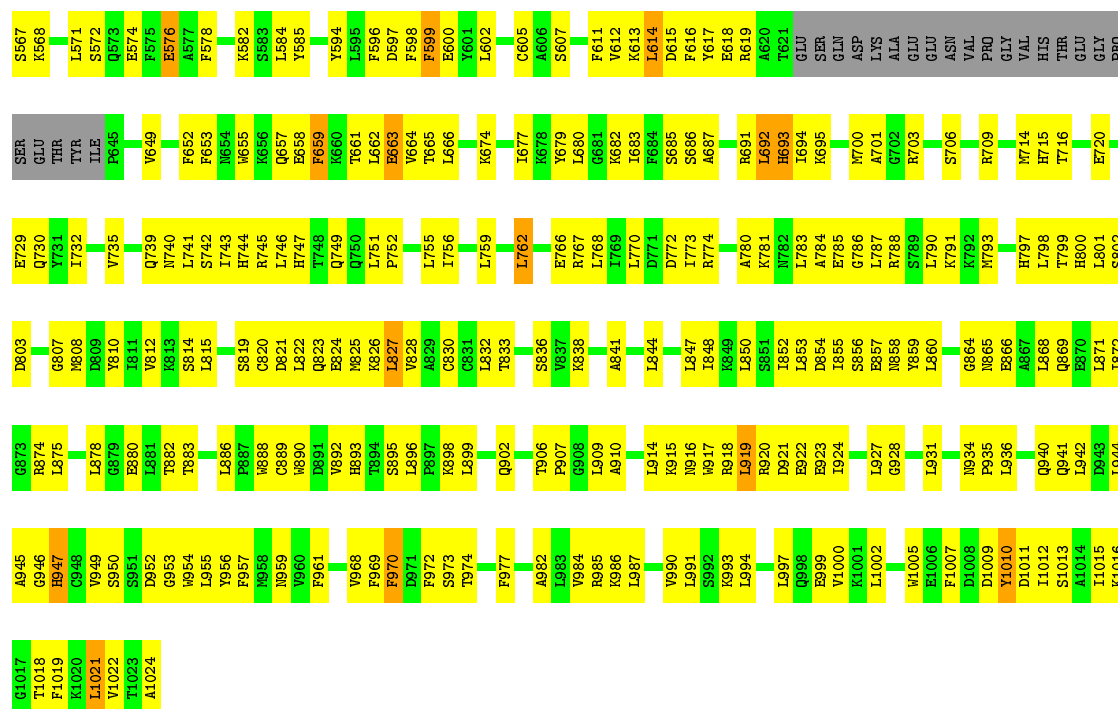
Chain A:  43% 51%



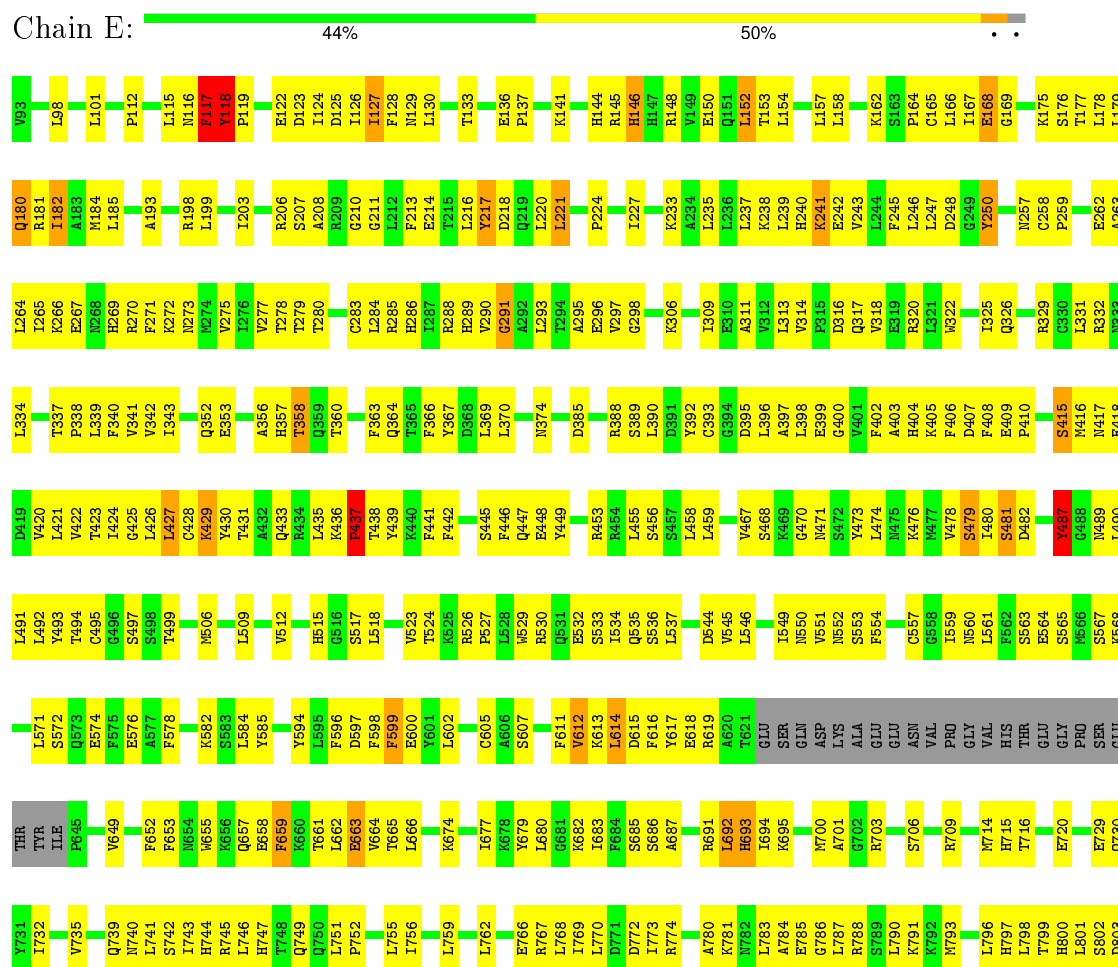
• Molecule 1: NLR family CARD domain-containing protein 4

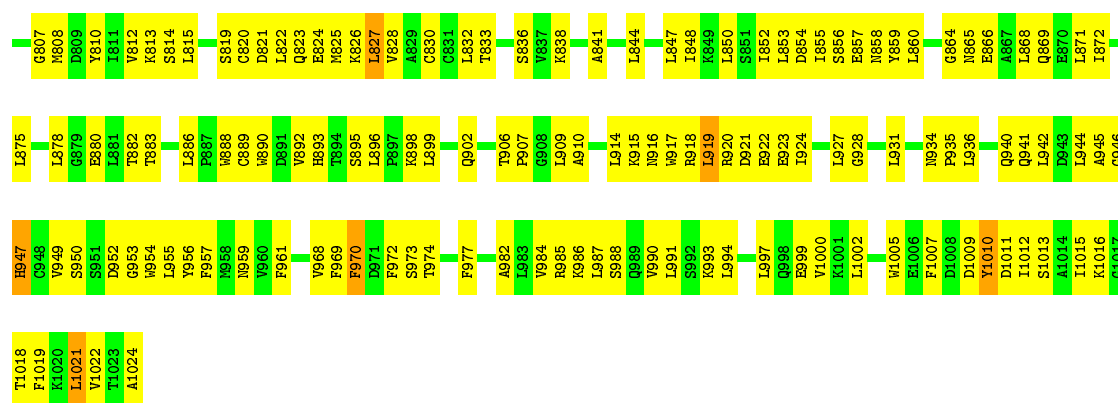
Chain B:  43% 51%





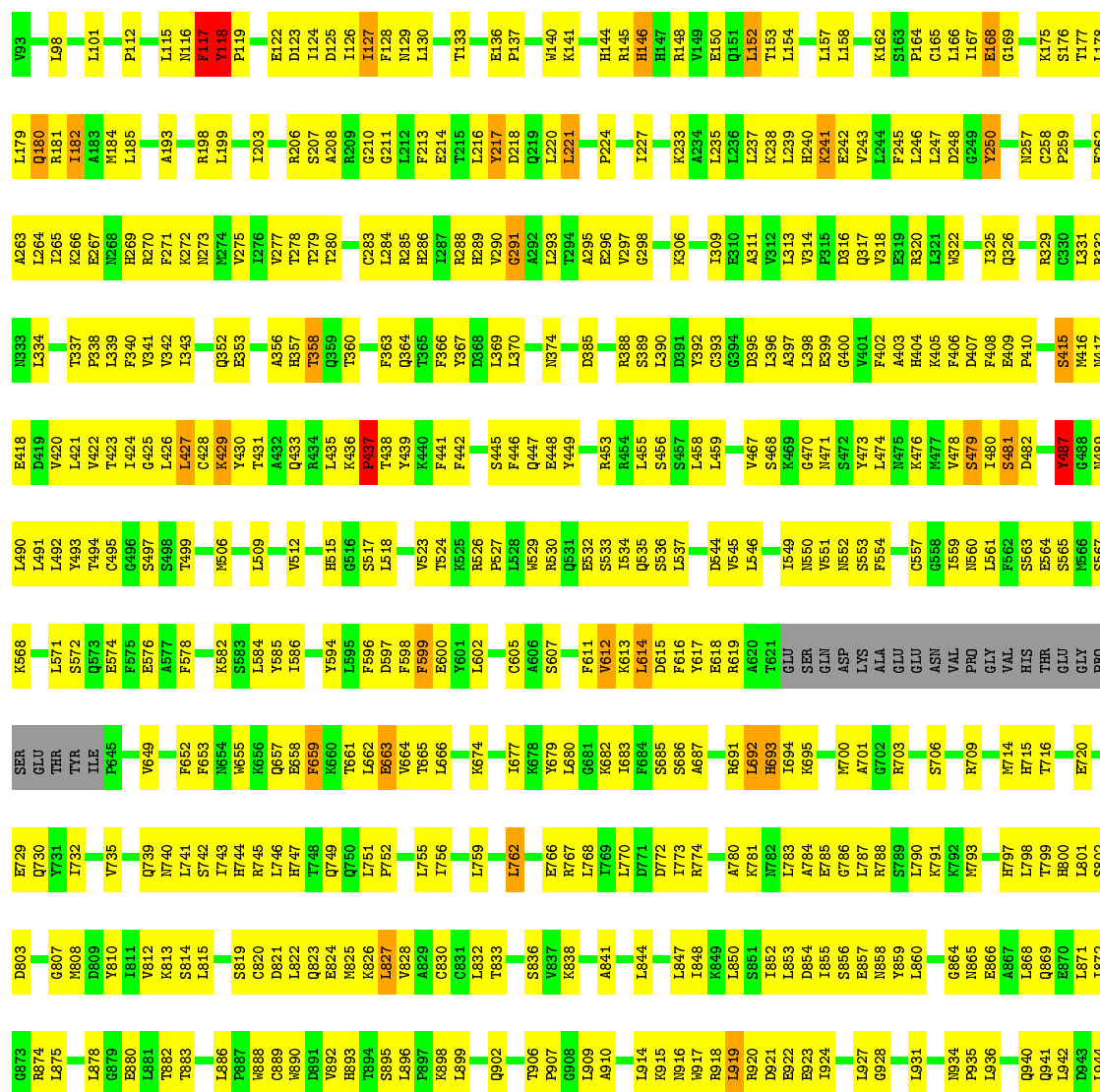
• Molecule 1: NLR family CARD domain-containing protein 4

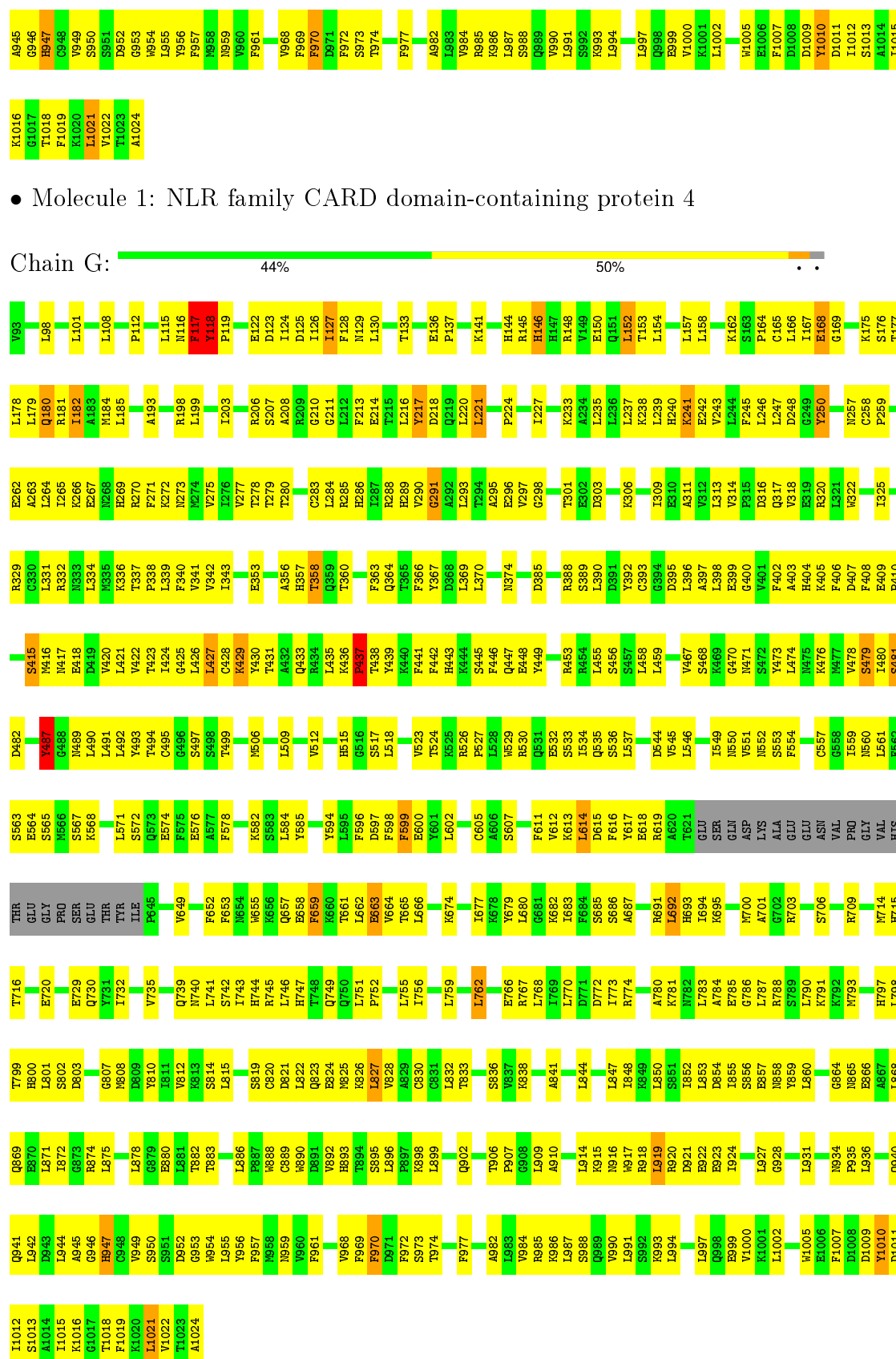




• Molecule 1: NLR family CARD domain-containing protein 4

Chain F: 44% 50%





- Molecule 1: NLR family CARD domain-containing protein 4

- Molecule 1: NLR family CARD domain-containing protein 4





E1006	N934	G864	R792		VAL	I559	V478
F1007	P935	N865	R793	R709	PRQ	N560	S479
D1008	L936	E866	L796	M714	GLY	L561	I480
D1009		E867	L797	H715	VAL	F562	S481
D1010	Q940	L868	H798	T716	HIS	S563	D482
I1012	Q941	Q869	T799		THR	E564	
S1013	L942	E870	H800	E720	GLU	S565	V483
A1014	D943	L871	L801		GLY	F566	G486
I1015	L944	I872	S802	E729	PRQ	S567	I489
K1016	A945	G873	D803	E729	SER	K568	L490
	G946	R874		Y731	GLU	Q730	L491
T1018	H947	L875	G807	I732	THR	L571	L492
F1019	G948		N808		TVR	S572	Y493
K1020	V949	L878	D809	V735	ILE	Q573	T494
L1021	S950	G879	Y810			E574	C495
V1022	S951	E880	J811	Q739		F575	G496
T1023	D952	L881	N812	N740		E576	S497
A1024	G953	T882	K813	L741		A577	S498
	N954	T883	S814	S742		F578	T499
	L955		L815	I743			
	Y956	L886		H744		K582	M506
	F957	N887	S819	R745		S583	L509
N958	N958	N888	C920	L746		Y585	
N959	N959	C889	D821	H747			
N960	N960	N890	L822	T748		Y594	V512
F961		D891	Q823	Q749		L595	
	V968	V892	E824	Q750		F596	H515
F969	F969	T894	N825	L751		L596	S517
F970	F970	S895	K826	P752		D597	L518
D971	D971	L896	L827	V664		F599	
F972	F972	N897	N828	L755		E600	V523
S973	S973	K898	A829	I756		L601	T524
T974	T974	L899	C930			L602	K525
			L832	L759		N604	R526
		Q902	T833			P527	P528
				L762		Q605	L528
A982	A982	T906	S836	E766		A606	N529
L983	L983	P907	T837	R767		S607	R530
V984	V984	G908	K838	L768		F611	E532
R985	R985	L909		I769		V612	S533
K986	K986	A910	A841	L770		K613	I534
L987	L987		L844	D771		L614	Q535
		L914		D772		D615	S536
V990	V990	K915	L847	I773		F616	L537
L991	L991	N916	I848	R774		Y617	
K993	K993	W917	K849	A760		E618	D544
L994	L994	L918	L850	K781		R619	V545
T995	T995	R920	S851	N782		A620	L546
L996	L996	D921	I852	L783		T621	
L997	L997	E922	L853	A784		GLU	T649
Q998	Q998	E923	D854	E785		SER	N550
E999	E999	I924	I855	G786		GLN	V551
V1000	V1000		S856	L787		ASP	N552
K1001	K1001	L927	E857	R788		LYS	S553
L1002	L1002	G928	N858	S789		ALA	F554
			Y859	L790		GLU	
		W1005	L860	K791		GLU	C557
						ASN	S558

4 Experimental information

Property	Value	Source
Reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	Depositor
Number of images	75114	Depositor
Resolution determination method	FSC 0.143	Depositor
CTF correction method	Wiener-type filter	Depositor
Microscope	OTHER	Depositor
Voltage (kV)	200	Depositor
Electron dose ($e^-/\text{\AA}^2$)	48	Depositor
Minimum defocus (nm)	1000	Depositor
Maximum defocus (nm)	3000	Depositor
Magnification	21000	Depositor
Image detector	GATAN K2 (4k x 4k)	Depositor

5 Model quality

5.1 Standard geometry

Bond lengths and bond angles in the following residue types are not validated in this section: SEP

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	$\# Z > 2$	RMSZ	$\# Z > 2$
1	A	0.37	0/7412	0.93	18/10004 (0.2%)
1	B	0.37	0/7412	0.93	18/10004 (0.2%)
1	C	0.37	0/7412	0.93	18/10004 (0.2%)
1	D	0.37	0/7412	0.93	18/10004 (0.2%)
1	E	0.37	0/7412	0.93	18/10004 (0.2%)
1	F	0.37	0/7412	0.93	18/10004 (0.2%)
1	G	0.37	0/7412	0.93	17/10004 (0.2%)
1	H	0.37	0/7412	0.93	18/10004 (0.2%)
1	I	0.37	0/7412	0.93	17/10004 (0.2%)
1	J	0.37	0/7412	0.93	18/10004 (0.2%)
1	K	0.37	0/7412	0.93	18/10004 (0.2%)
All	All	0.37	0/81532	0.93	196/110044 (0.2%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
1	A	0	2
1	B	0	2
1	C	0	2
1	D	0	2
1	E	0	2
1	F	0	2
1	G	0	2
1	H	0	2
1	I	0	2
1	J	0	2
1	K	0	2
All	All	0	22

There are no bond length outliers.

All (196) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	F	280	THR	N-CA-C	-8.11	89.11	111.00
1	G	280	THR	N-CA-C	-8.11	89.11	111.00
1	K	280	THR	N-CA-C	-8.10	89.12	111.00
1	B	280	THR	N-CA-C	-8.10	89.12	111.00
1	C	280	THR	N-CA-C	-8.10	89.13	111.00
1	A	280	THR	N-CA-C	-8.10	89.13	111.00
1	D	280	THR	N-CA-C	-8.10	89.13	111.00
1	H	280	THR	N-CA-C	-8.10	89.13	111.00
1	I	280	THR	N-CA-C	-8.10	89.14	111.00
1	J	280	THR	N-CA-C	-8.10	89.14	111.00
1	E	280	THR	N-CA-C	-8.09	89.16	111.00
1	A	427	LEU	CA-CB-CG	7.86	133.38	115.30
1	F	427	LEU	CA-CB-CG	7.85	133.36	115.30
1	G	427	LEU	CA-CB-CG	7.85	133.35	115.30
1	C	427	LEU	CA-CB-CG	7.85	133.35	115.30
1	I	427	LEU	CA-CB-CG	7.85	133.35	115.30
1	H	427	LEU	CA-CB-CG	7.84	133.34	115.30
1	K	427	LEU	CA-CB-CG	7.84	133.34	115.30
1	B	427	LEU	CA-CB-CG	7.84	133.33	115.30
1	D	427	LEU	CA-CB-CG	7.84	133.33	115.30
1	E	427	LEU	CA-CB-CG	7.83	133.32	115.30
1	J	427	LEU	CA-CB-CG	7.83	133.31	115.30
1	D	178	LEU	CA-CB-CG	7.18	131.82	115.30
1	E	178	LEU	CA-CB-CG	7.18	131.81	115.30
1	J	178	LEU	CA-CB-CG	7.18	131.81	115.30
1	H	178	LEU	CA-CB-CG	7.17	131.80	115.30
1	K	178	LEU	CA-CB-CG	7.17	131.79	115.30
1	F	178	LEU	CA-CB-CG	7.16	131.77	115.30
1	A	178	LEU	CA-CB-CG	7.16	131.76	115.30
1	B	178	LEU	CA-CB-CG	7.15	131.75	115.30
1	C	178	LEU	CA-CB-CG	7.15	131.75	115.30
1	G	178	LEU	CA-CB-CG	7.15	131.74	115.30
1	I	178	LEU	CA-CB-CG	7.15	131.74	115.30
1	C	942	LEU	N-CA-C	-7.02	92.05	111.00
1	G	942	LEU	N-CA-C	-7.02	92.05	111.00
1	D	942	LEU	N-CA-C	-7.01	92.07	111.00
1	A	942	LEU	N-CA-C	-7.01	92.08	111.00
1	B	942	LEU	N-CA-C	-7.01	92.08	111.00
1	E	942	LEU	N-CA-C	-7.01	92.08	111.00
1	J	942	LEU	N-CA-C	-7.01	92.08	111.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	K	942	LEU	N-CA-C	-7.00	92.09	111.00
1	F	942	LEU	N-CA-C	-7.00	92.10	111.00
1	I	942	LEU	N-CA-C	-7.00	92.11	111.00
1	H	942	LEU	N-CA-C	-7.00	92.11	111.00
1	H	942	LEU	CA-CB-CG	6.21	129.58	115.30
1	F	942	LEU	CA-CB-CG	6.21	129.58	115.30
1	C	942	LEU	CA-CB-CG	6.21	129.57	115.30
1	G	942	LEU	CA-CB-CG	6.20	129.56	115.30
1	E	942	LEU	CA-CB-CG	6.20	129.56	115.30
1	B	942	LEU	CA-CB-CG	6.20	129.55	115.30
1	K	942	LEU	CA-CB-CG	6.19	129.55	115.30
1	D	942	LEU	CA-CB-CG	6.19	129.54	115.30
1	A	942	LEU	CA-CB-CG	6.18	129.53	115.30
1	I	942	LEU	CA-CB-CG	6.18	129.52	115.30
1	J	942	LEU	CA-CB-CG	6.18	129.51	115.30
1	E	919	LEU	CA-CB-CG	6.14	129.42	115.30
1	D	919	LEU	CA-CB-CG	6.14	129.41	115.30
1	B	919	LEU	CA-CB-CG	6.13	129.41	115.30
1	G	919	LEU	CA-CB-CG	6.13	129.41	115.30
1	F	919	LEU	CA-CB-CG	6.13	129.40	115.30
1	K	919	LEU	CA-CB-CG	6.13	129.40	115.30
1	J	919	LEU	CA-CB-CG	6.13	129.39	115.30
1	A	919	LEU	CA-CB-CG	6.12	129.38	115.30
1	C	919	LEU	CA-CB-CG	6.12	129.37	115.30
1	I	919	LEU	CA-CB-CG	6.11	129.36	115.30
1	H	919	LEU	CA-CB-CG	6.11	129.35	115.30
1	C	280	THR	C-N-CA	-6.04	106.59	121.70
1	B	280	THR	C-N-CA	-6.03	106.63	121.70
1	D	280	THR	C-N-CA	-6.03	106.63	121.70
1	H	280	THR	C-N-CA	-6.03	106.63	121.70
1	K	280	THR	C-N-CA	-6.03	106.64	121.70
1	J	280	THR	C-N-CA	-6.02	106.65	121.70
1	A	280	THR	C-N-CA	-6.02	106.66	121.70
1	I	280	THR	C-N-CA	-6.02	106.66	121.70
1	F	280	THR	C-N-CA	-6.01	106.67	121.70
1	C	853	LEU	N-CA-C	-6.01	94.78	111.00
1	E	853	LEU	N-CA-C	-6.01	94.78	111.00
1	G	853	LEU	N-CA-C	-6.01	94.78	111.00
1	E	280	THR	C-N-CA	-6.00	106.69	121.70
1	G	280	THR	C-N-CA	-6.00	106.69	121.70
1	I	853	LEU	N-CA-C	-6.00	94.79	111.00
1	K	853	LEU	N-CA-C	-6.00	94.80	111.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	J	853	LEU	N-CA-C	-6.00	94.80	111.00
1	D	853	LEU	N-CA-C	-6.00	94.81	111.00
1	A	853	LEU	N-CA-C	-6.00	94.81	111.00
1	F	853	LEU	N-CA-C	-6.00	94.81	111.00
1	B	853	LEU	N-CA-C	-5.99	94.83	111.00
1	H	853	LEU	N-CA-C	-5.99	94.84	111.00
1	C	291	GLY	N-CA-C	5.91	127.88	113.10
1	B	291	GLY	N-CA-C	5.91	127.88	113.10
1	I	291	GLY	N-CA-C	5.91	127.87	113.10
1	G	291	GLY	N-CA-C	5.91	127.87	113.10
1	F	291	GLY	N-CA-C	5.90	127.85	113.10
1	K	291	GLY	N-CA-C	5.90	127.84	113.10
1	A	291	GLY	N-CA-C	5.89	127.84	113.10
1	D	291	GLY	N-CA-C	5.89	127.83	113.10
1	E	291	GLY	N-CA-C	5.89	127.82	113.10
1	H	291	GLY	N-CA-C	5.88	127.81	113.10
1	J	291	GLY	N-CA-C	5.88	127.79	113.10
1	J	429	LYS	N-CA-C	5.80	126.65	111.00
1	F	429	LYS	N-CA-C	5.79	126.64	111.00
1	E	429	LYS	N-CA-C	5.78	126.61	111.00
1	G	429	LYS	N-CA-C	5.78	126.62	111.00
1	I	429	LYS	N-CA-C	5.78	126.62	111.00
1	K	429	LYS	N-CA-C	5.78	126.60	111.00
1	A	429	LYS	N-CA-C	5.78	126.60	111.00
1	B	429	LYS	N-CA-C	5.78	126.60	111.00
1	C	429	LYS	N-CA-C	5.77	126.59	111.00
1	D	429	LYS	N-CA-C	5.77	126.58	111.00
1	H	429	LYS	N-CA-C	5.77	126.58	111.00
1	J	474	LEU	CA-CB-CG	5.68	128.37	115.30
1	H	474	LEU	CA-CB-CG	5.67	128.33	115.30
1	A	474	LEU	CA-CB-CG	5.66	128.32	115.30
1	K	474	LEU	CA-CB-CG	5.66	128.31	115.30
1	G	474	LEU	CA-CB-CG	5.66	128.32	115.30
1	F	474	LEU	CA-CB-CG	5.66	128.31	115.30
1	C	474	LEU	CA-CB-CG	5.65	128.30	115.30
1	B	474	LEU	CA-CB-CG	5.65	128.30	115.30
1	D	474	LEU	CA-CB-CG	5.65	128.29	115.30
1	E	474	LEU	CA-CB-CG	5.65	128.29	115.30
1	I	474	LEU	CA-CB-CG	5.65	128.29	115.30
1	C	180	GLN	N-CA-C	-5.64	95.77	111.00
1	F	180	GLN	N-CA-C	-5.64	95.78	111.00
1	E	180	GLN	N-CA-C	-5.63	95.79	111.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	180	GLN	N-CA-C	-5.63	95.80	111.00
1	K	180	GLN	N-CA-C	-5.62	95.81	111.00
1	H	180	GLN	N-CA-C	-5.62	95.81	111.00
1	I	180	GLN	N-CA-C	-5.62	95.83	111.00
1	G	180	GLN	N-CA-C	-5.62	95.83	111.00
1	J	180	GLN	N-CA-C	-5.62	95.83	111.00
1	D	180	GLN	N-CA-C	-5.62	95.84	111.00
1	A	180	GLN	N-CA-C	-5.61	95.84	111.00
1	J	491	LEU	CA-CB-CG	5.45	127.83	115.30
1	E	491	LEU	CA-CB-CG	5.44	127.81	115.30
1	D	491	LEU	CA-CB-CG	5.43	127.80	115.30
1	F	491	LEU	CA-CB-CG	5.43	127.80	115.30
1	G	491	LEU	CA-CB-CG	5.43	127.79	115.30
1	A	491	LEU	CA-CB-CG	5.43	127.79	115.30
1	K	491	LEU	CA-CB-CG	5.43	127.78	115.30
1	H	491	LEU	CA-CB-CG	5.43	127.78	115.30
1	B	491	LEU	CA-CB-CG	5.42	127.78	115.30
1	I	491	LEU	CA-CB-CG	5.42	127.77	115.30
1	C	491	LEU	CA-CB-CG	5.42	127.76	115.30
1	B	612	VAL	N-CA-C	-5.38	96.46	111.00
1	D	612	VAL	N-CA-C	-5.38	96.47	111.00
1	E	612	VAL	N-CA-C	-5.38	96.47	111.00
1	G	612	VAL	N-CA-C	-5.38	96.47	111.00
1	I	612	VAL	N-CA-C	-5.38	96.47	111.00
1	K	612	VAL	N-CA-C	-5.38	96.48	111.00
1	H	612	VAL	N-CA-C	-5.38	96.48	111.00
1	C	612	VAL	N-CA-C	-5.37	96.50	111.00
1	F	612	VAL	N-CA-C	-5.37	96.50	111.00
1	J	612	VAL	N-CA-C	-5.37	96.51	111.00
1	A	612	VAL	N-CA-C	-5.36	96.52	111.00
1	D	692	LEU	N-CA-C	5.26	125.20	111.00
1	G	692	LEU	N-CA-C	5.25	125.19	111.00
1	E	692	LEU	N-CA-C	5.25	125.18	111.00
1	H	692	LEU	N-CA-C	5.25	125.18	111.00
1	F	692	LEU	N-CA-C	5.25	125.18	111.00
1	B	692	LEU	N-CA-C	5.25	125.17	111.00
1	K	692	LEU	N-CA-C	5.25	125.17	111.00
1	I	692	LEU	N-CA-C	5.25	125.17	111.00
1	J	692	LEU	N-CA-C	5.25	125.17	111.00
1	A	692	LEU	N-CA-C	5.24	125.16	111.00
1	C	692	LEU	N-CA-C	5.24	125.15	111.00
1	J	827	LEU	CA-CB-CG	5.18	127.21	115.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	E	827	LEU	CA-CB-CG	5.17	127.20	115.30
1	B	827	LEU	CA-CB-CG	5.16	127.18	115.30
1	D	827	LEU	CA-CB-CG	5.16	127.17	115.30
1	K	827	LEU	CA-CB-CG	5.16	127.17	115.30
1	A	827	LEU	CA-CB-CG	5.16	127.16	115.30
1	F	827	LEU	CA-CB-CG	5.16	127.16	115.30
1	C	827	LEU	CA-CB-CG	5.15	127.15	115.30
1	H	827	LEU	CA-CB-CG	5.15	127.15	115.30
1	I	827	LEU	CA-CB-CG	5.15	127.14	115.30
1	G	827	LEU	CA-CB-CG	5.14	127.13	115.30
1	B	487	TYR	CA-CB-CG	5.05	123.00	113.40
1	C	487	TYR	CA-CB-CG	5.05	122.99	113.40
1	A	487	TYR	CA-CB-CG	5.04	122.98	113.40
1	B	693	HIS	N-CA-CB	5.04	119.67	110.60
1	I	487	TYR	CA-CB-CG	5.04	122.98	113.40
1	F	487	TYR	CA-CB-CG	5.04	122.98	113.40
1	H	487	TYR	CA-CB-CG	5.04	122.97	113.40
1	K	487	TYR	CA-CB-CG	5.04	122.97	113.40
1	H	693	HIS	N-CA-CB	5.03	119.66	110.60
1	J	487	TYR	CA-CB-CG	5.03	122.96	113.40
1	D	487	TYR	CA-CB-CG	5.03	122.95	113.40
1	J	693	HIS	N-CA-CB	5.03	119.65	110.60
1	A	693	HIS	N-CA-CB	5.02	119.64	110.60
1	K	693	HIS	N-CA-CB	5.02	119.64	110.60
1	E	487	TYR	CA-CB-CG	5.02	122.94	113.40
1	G	487	TYR	CA-CB-CG	5.02	122.94	113.40
1	C	693	HIS	N-CA-CB	5.01	119.62	110.60
1	E	693	HIS	N-CA-CB	5.01	119.62	110.60
1	D	693	HIS	N-CA-CB	5.01	119.62	110.60
1	F	693	HIS	N-CA-CB	5.01	119.62	110.60

There are no chirality outliers.

All (22) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	117	PHE	Peptide
1	A	441	PHE	Peptide
1	B	117	PHE	Peptide
1	B	441	PHE	Peptide
1	C	117	PHE	Peptide
1	C	441	PHE	Peptide
1	D	117	PHE	Peptide

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Mol	Chain	Res	Type	Group
1	D	441	PHE	Peptide
1	E	117	PHE	Peptide
1	E	441	PHE	Peptide
1	F	117	PHE	Peptide
1	F	441	PHE	Peptide
1	G	117	PHE	Peptide
1	G	441	PHE	Peptide
1	H	117	PHE	Peptide
1	H	441	PHE	Peptide
1	I	117	PHE	Peptide
1	I	441	PHE	Peptide
1	J	117	PHE	Peptide
1	J	441	PHE	Peptide
1	K	117	PHE	Peptide
1	K	441	PHE	Peptide

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	7284	0	7329	442	0
1	B	7284	0	7329	440	0
1	C	7284	0	7329	440	0
1	D	7284	0	7329	442	0
1	E	7284	0	7329	437	0
1	F	7284	0	7329	442	0
1	G	7284	0	7329	436	0
1	H	7284	0	7329	444	0
1	I	7284	0	7329	442	0
1	J	7284	0	7329	457	0
1	K	7284	0	7329	454	0
All	All	80124	0	80619	4740	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 29.

All (4740) 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:K:125:ASP:H	1:J:433:GLN:HG2	1.28	0.95
1:A:433:GLN:HG2	1:B:125:ASP:H	1.33	0.94
1:F:433:GLN:HG2	1:G:125:ASP:H	1.33	0.93
1:G:433:GLN:HG2	1:H:125:ASP:H	1.33	0.93
1:D:433:GLN:HG2	1:E:125:ASP:H	1.34	0.93
1:E:433:GLN:HG2	1:F:125:ASP:H	1.33	0.93
1:B:433:GLN:HG2	1:C:125:ASP:H	1.35	0.92
1:C:399:GLU:HA	1:C:402:PHE:HB2	1.52	0.92
1:A:399:GLU:HA	1:A:402:PHE:HB2	1.52	0.92
1:H:433:GLN:HG2	1:I:125:ASP:H	1.33	0.92
1:E:399:GLU:HA	1:E:402:PHE:HB2	1.52	0.92
1:I:433:GLN:HG2	1:J:125:ASP:H	1.33	0.91
1:C:433:GLN:HG2	1:D:125:ASP:H	1.33	0.91
1:J:399:GLU:HA	1:J:402:PHE:HB2	1.52	0.91
1:G:399:GLU:HA	1:G:402:PHE:HB2	1.52	0.90
1:C:607:SER:HB3	1:C:655:TRP:HZ2	1.37	0.89
1:A:607:SER:HB3	1:A:655:TRP:HZ2	1.37	0.89
1:F:607:SER:HB3	1:F:655:TRP:HZ2	1.38	0.89
1:H:399:GLU:HA	1:H:402:PHE:HB2	1.52	0.89
1:K:399:GLU:HA	1:K:402:PHE:HB2	1.52	0.89
1:B:399:GLU:HA	1:B:402:PHE:HB2	1.52	0.89
1:D:399:GLU:HA	1:D:402:PHE:HB2	1.52	0.89
1:F:399:GLU:HA	1:F:402:PHE:HB2	1.52	0.89
1:B:117:PHE:CZ	1:B:176:SER:HB2	2.08	0.89
1:I:399:GLU:HA	1:I:402:PHE:HB2	1.52	0.89
1:E:117:PHE:CZ	1:E:176:SER:HB2	2.08	0.89
1:A:117:PHE:CZ	1:A:176:SER:HB2	2.08	0.89
1:H:607:SER:HB3	1:H:655:TRP:HZ2	1.38	0.89
1:H:117:PHE:CZ	1:H:176:SER:HB2	2.08	0.89
1:J:607:SER:HB3	1:J:655:TRP:HZ2	1.37	0.89
1:G:117:PHE:CZ	1:G:176:SER:HB2	2.08	0.89
1:J:117:PHE:CZ	1:J:176:SER:HB2	2.08	0.89
1:E:607:SER:HB3	1:E:655:TRP:HZ2	1.38	0.88
1:D:117:PHE:CZ	1:D:176:SER:HB2	2.08	0.88
1:K:117:PHE:CZ	1:K:176:SER:HB2	2.08	0.88
1:C:117:PHE:CZ	1:C:176:SER:HB2	2.08	0.88
1:I:607:SER:HB3	1:I:655:TRP:HZ2	1.37	0.88
1:D:607:SER:HB3	1:D:655:TRP:HZ2	1.38	0.88
1:K:607:SER:HB3	1:K:655:TRP:HZ2	1.37	0.88
1:F:117:PHE:CZ	1:F:176:SER:HB2	2.08	0.88
1:C:916:ASN:H	1:C:945:ALA:HB3	1.39	0.88
1:D:916:ASN:H	1:D:945:ALA:HB3	1.39	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:916:ASN:H	1:B:945:ALA:HB3	1.39	0.87
1:G:607:SER:HB3	1:G:655:TRP:HZ2	1.37	0.87
1:D:866:GLU:OE1	1:D:898:LYS:NZ	2.08	0.87
1:I:117:PHE:CZ	1:I:176:SER:HB2	2.08	0.87
1:C:866:GLU:OE1	1:C:898:LYS:NZ	2.08	0.87
1:B:607:SER:HB3	1:B:655:TRP:HZ2	1.38	0.87
1:A:916:ASN:H	1:A:945:ALA:HB3	1.39	0.87
1:H:364:GLN:HA	1:H:367:TYR:HD2	1.40	0.87
1:E:916:ASN:H	1:E:945:ALA:HB3	1.39	0.87
1:E:866:GLU:OE1	1:E:898:LYS:NZ	2.08	0.87
1:K:364:GLN:HA	1:K:367:TYR:HD2	1.40	0.87
1:B:866:GLU:OE1	1:B:898:LYS:NZ	2.08	0.87
1:G:916:ASN:H	1:G:945:ALA:HB3	1.39	0.87
1:B:364:GLN:HA	1:B:367:TYR:HD2	1.40	0.86
1:A:364:GLN:HA	1:A:367:TYR:HD2	1.40	0.86
1:K:916:ASN:H	1:K:945:ALA:HB3	1.39	0.86
1:J:916:ASN:H	1:J:945:ALA:HB3	1.39	0.86
1:D:117:PHE:HZ	1:D:176:SER:HB2	1.41	0.86
1:I:916:ASN:H	1:I:945:ALA:HB3	1.39	0.86
1:G:364:GLN:HA	1:G:367:TYR:HD2	1.40	0.86
1:I:117:PHE:HZ	1:I:176:SER:HB2	1.41	0.86
1:H:916:ASN:H	1:H:945:ALA:HB3	1.39	0.86
1:F:916:ASN:H	1:F:945:ALA:HB3	1.40	0.86
1:B:117:PHE:HZ	1:B:176:SER:HB2	1.41	0.86
1:D:364:GLN:HA	1:D:367:TYR:HD2	1.40	0.86
1:J:364:GLN:HA	1:J:367:TYR:HD2	1.40	0.86
1:E:364:GLN:HA	1:E:367:TYR:HD2	1.40	0.86
1:K:117:PHE:HZ	1:K:176:SER:HB2	1.41	0.86
1:F:866:GLU:OE1	1:F:898:LYS:NZ	2.08	0.86
1:I:866:GLU:OE1	1:I:898:LYS:NZ	2.08	0.86
1:A:866:GLU:OE1	1:A:898:LYS:NZ	2.08	0.86
1:B:784:ALA:HB1	1:B:814:SER:HB2	1.58	0.86
1:G:866:GLU:OE1	1:G:898:LYS:NZ	2.08	0.85
1:K:653:PHE:HB3	1:J:1015:ILE:HG21	1.56	0.85
1:H:866:GLU:OE1	1:H:898:LYS:NZ	2.08	0.85
1:J:866:GLU:OE1	1:J:898:LYS:NZ	2.08	0.85
1:I:364:GLN:HA	1:I:367:TYR:HD2	1.40	0.85
1:H:117:PHE:HZ	1:H:176:SER:HB2	1.41	0.85
1:A:784:ALA:HB1	1:A:814:SER:HB2	1.58	0.85
1:G:117:PHE:HZ	1:G:176:SER:HB2	1.41	0.85
1:C:364:GLN:HA	1:C:367:TYR:HD2	1.40	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:117:PHE:HZ	1:C:176:SER:HB2	1.41	0.85
1:K:866:GLU:OE1	1:K:898:LYS:NZ	2.08	0.85
1:H:427:LEU:HA	1:H:439:TYR:HA	1.59	0.85
1:C:784:ALA:HB1	1:C:814:SER:HB2	1.58	0.85
1:G:427:LEU:HA	1:G:439:TYR:HA	1.59	0.85
1:K:125:ASP:HB2	1:J:433:GLN:HE21	1.40	0.85
1:I:427:LEU:HA	1:I:439:TYR:HA	1.59	0.84
1:E:427:LEU:HA	1:E:439:TYR:HA	1.59	0.84
1:E:117:PHE:HZ	1:E:176:SER:HB2	1.41	0.84
1:F:427:LEU:HA	1:F:439:TYR:HA	1.59	0.84
1:J:427:LEU:HA	1:J:439:TYR:HA	1.59	0.84
1:D:427:LEU:HA	1:D:439:TYR:HA	1.59	0.84
1:K:784:ALA:HB1	1:K:814:SER:HB2	1.58	0.84
1:H:875:LEU:HD11	1:H:902:GLN:HA	1.60	0.84
1:A:117:PHE:HZ	1:A:176:SER:HB2	1.41	0.84
1:I:875:LEU:HD11	1:I:902:GLN:HA	1.60	0.84
1:G:875:LEU:HD11	1:G:902:GLN:HA	1.60	0.84
1:J:117:PHE:HZ	1:J:176:SER:HB2	1.41	0.83
1:K:427:LEU:HA	1:K:439:TYR:HA	1.59	0.83
1:J:875:LEU:HD11	1:J:902:GLN:HA	1.60	0.83
1:F:364:GLN:HA	1:F:367:TYR:HD2	1.40	0.83
1:K:875:LEU:HD11	1:K:902:GLN:HA	1.60	0.83
1:D:784:ALA:HB1	1:D:814:SER:HB2	1.58	0.83
1:H:784:ALA:HB1	1:H:814:SER:HB2	1.58	0.83
1:F:875:LEU:HD11	1:F:902:GLN:HA	1.60	0.83
1:J:784:ALA:HB1	1:J:814:SER:HB2	1.58	0.83
1:E:784:ALA:HB1	1:E:814:SER:HB2	1.58	0.83
1:A:427:LEU:HA	1:A:439:TYR:HA	1.59	0.83
1:A:875:LEU:HD11	1:A:902:GLN:HA	1.60	0.83
1:G:784:ALA:HB1	1:G:814:SER:HB2	1.58	0.83
1:I:784:ALA:HB1	1:I:814:SER:HB2	1.58	0.83
1:F:784:ALA:HB1	1:F:814:SER:HB2	1.58	0.83
1:C:427:LEU:HA	1:C:439:TYR:HA	1.59	0.83
1:K:766:GLU:HA	1:K:793:MET:HA	1.61	0.82
1:K:433:GLN:HG2	1:A:125:ASP:H	1.41	0.82
1:E:875:LEU:HD11	1:E:902:GLN:HA	1.60	0.82
1:B:875:LEU:HD11	1:B:902:GLN:HA	1.60	0.82
1:A:766:GLU:HA	1:A:793:MET:HA	1.61	0.82
1:B:427:LEU:HA	1:B:439:TYR:HA	1.59	0.82
1:J:766:GLU:HA	1:J:793:MET:HA	1.61	0.82
1:D:875:LEU:HD11	1:D:902:GLN:HA	1.60	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:875:LEU:HD11	1:C:902:GLN:HA	1.60	0.82
1:B:766:GLU:HA	1:B:793:MET:HA	1.61	0.82
1:F:117:PHE:HZ	1:F:176:SER:HB2	1.41	0.82
1:F:955:LEU:HD13	1:F:986:LYS:HG3	1.62	0.82
1:I:766:GLU:HA	1:I:793:MET:HA	1.61	0.82
1:I:955:LEU:HD13	1:I:986:LYS:HG3	1.62	0.82
1:A:154:LEU:HD13	1:A:182:ILE:HG12	1.62	0.82
1:D:955:LEU:HD13	1:D:986:LYS:HG3	1.62	0.81
1:E:955:LEU:HD13	1:E:986:LYS:HG3	1.62	0.81
1:B:154:LEU:HD13	1:B:182:ILE:HG12	1.62	0.81
1:H:955:LEU:HD13	1:H:986:LYS:HG3	1.62	0.81
1:K:154:LEU:HD13	1:K:182:ILE:HG12	1.62	0.81
1:C:766:GLU:HA	1:C:793:MET:HA	1.61	0.81
1:K:955:LEU:HD13	1:K:986:LYS:HG3	1.62	0.81
1:F:154:LEU:HD13	1:F:182:ILE:HG12	1.62	0.81
1:C:578:PHE:O	1:C:582:LYS:NZ	2.14	0.81
1:G:154:LEU:HD13	1:G:182:ILE:HG12	1.62	0.81
1:G:955:LEU:HD13	1:G:986:LYS:HG3	1.62	0.81
1:J:955:LEU:HD13	1:J:986:LYS:HG3	1.62	0.81
1:B:955:LEU:HD13	1:B:986:LYS:HG3	1.62	0.81
1:C:955:LEU:HD13	1:C:986:LYS:HG3	1.62	0.81
1:D:766:GLU:HA	1:D:793:MET:HA	1.61	0.81
1:H:766:GLU:HA	1:H:793:MET:HA	1.61	0.81
1:J:578:PHE:O	1:J:582:LYS:NZ	2.14	0.81
1:K:578:PHE:O	1:K:582:LYS:NZ	2.14	0.81
1:J:154:LEU:HD13	1:J:182:ILE:HG12	1.62	0.81
1:B:578:PHE:O	1:B:582:LYS:NZ	2.14	0.81
1:E:578:PHE:O	1:E:582:LYS:NZ	2.14	0.81
1:A:578:PHE:O	1:A:582:LYS:NZ	2.14	0.81
1:C:154:LEU:HD13	1:C:182:ILE:HG12	1.62	0.81
1:A:955:LEU:HD13	1:A:986:LYS:HG3	1.62	0.81
1:E:154:LEU:HD13	1:E:182:ILE:HG12	1.62	0.81
1:E:766:GLU:HA	1:E:793:MET:HA	1.61	0.80
1:H:154:LEU:HD13	1:H:182:ILE:HG12	1.61	0.80
1:G:766:GLU:HA	1:G:793:MET:HA	1.61	0.80
1:F:766:GLU:HA	1:F:793:MET:HA	1.61	0.80
1:A:433:GLN:HE21	1:B:125:ASP:HB2	1.47	0.80
1:I:154:LEU:HD13	1:I:182:ILE:HG12	1.61	0.80
1:D:154:LEU:HD13	1:D:182:ILE:HG12	1.62	0.80
1:G:578:PHE:O	1:G:582:LYS:NZ	2.14	0.79
1:C:433:GLN:HE21	1:D:125:ASP:HB2	1.48	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:565:SER:OG	1:H:567:SER:OG	2.00	0.79
1:H:578:PHE:O	1:H:582:LYS:NZ	2.14	0.79
1:E:433:GLN:HE21	1:F:125:ASP:HB2	1.48	0.79
1:I:565:SER:OG	1:I:567:SER:OG	2.00	0.79
1:D:433:GLN:HE21	1:E:125:ASP:HB2	1.48	0.79
1:B:478:VAL:O	1:B:481:SER:OG	2.01	0.79
1:G:565:SER:OG	1:G:567:SER:OG	2.00	0.79
1:D:565:SER:OG	1:D:567:SER:OG	2.00	0.79
1:I:433:GLN:HE21	1:J:125:ASP:HB2	1.47	0.79
1:C:565:SER:OG	1:C:567:SER:OG	2.00	0.78
1:J:565:SER:OG	1:J:567:SER:OG	2.00	0.78
1:G:478:VAL:O	1:G:481:SER:OG	2.01	0.78
1:A:478:VAL:O	1:A:481:SER:OG	2.01	0.78
1:I:578:PHE:O	1:I:582:LYS:NZ	2.14	0.78
1:F:433:GLN:HE21	1:G:125:ASP:HB2	1.48	0.78
1:J:115:LEU:O	1:J:130:LEU:N	2.17	0.78
1:B:565:SER:OG	1:B:567:SER:OG	2.00	0.78
1:C:478:VAL:O	1:C:481:SER:OG	2.01	0.78
1:D:115:LEU:O	1:D:130:LEU:N	2.17	0.78
1:E:478:VAL:O	1:E:481:SER:OG	2.01	0.78
1:H:433:GLN:HE21	1:I:125:ASP:HB2	1.48	0.78
1:F:565:SER:OG	1:F:567:SER:OG	2.00	0.78
1:E:115:LEU:O	1:E:130:LEU:N	2.17	0.78
1:C:115:LEU:O	1:C:130:LEU:N	2.17	0.78
1:I:115:LEU:O	1:I:130:LEU:N	2.17	0.78
1:G:433:GLN:HE21	1:H:125:ASP:HB2	1.47	0.78
1:B:433:GLN:HE21	1:C:125:ASP:HB2	1.49	0.78
1:K:565:SER:OG	1:K:567:SER:OG	2.00	0.78
1:I:875:LEU:HD21	1:I:902:GLN:HG2	1.67	0.77
1:D:875:LEU:HD21	1:D:902:GLN:HG2	1.67	0.77
1:C:875:LEU:HD21	1:C:902:GLN:HG2	1.67	0.77
1:A:875:LEU:HD21	1:A:902:GLN:HG2	1.67	0.77
1:A:565:SER:OG	1:A:567:SER:OG	2.00	0.77
1:B:875:LEU:HD21	1:B:902:GLN:HG2	1.67	0.77
1:G:875:LEU:HD21	1:G:902:GLN:HG2	1.67	0.77
1:H:875:LEU:HD21	1:H:902:GLN:HG2	1.67	0.77
1:J:875:LEU:HD21	1:J:902:GLN:HG2	1.67	0.77
1:D:578:PHE:O	1:D:582:LYS:NZ	2.14	0.77
1:D:478:VAL:O	1:D:481:SER:OG	2.01	0.77
1:H:115:LEU:O	1:H:130:LEU:N	2.17	0.77
1:F:115:LEU:O	1:F:130:LEU:N	2.17	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:875:LEU:HD21	1:K:902:GLN:HG2	1.67	0.77
1:K:478:VAL:O	1:K:481:SER:OG	2.01	0.77
1:B:115:LEU:O	1:B:130:LEU:N	2.17	0.77
1:E:565:SER:OG	1:E:567:SER:OG	2.00	0.77
1:E:875:LEU:HD21	1:E:902:GLN:HG2	1.67	0.77
1:F:478:VAL:O	1:F:481:SER:OG	2.01	0.77
1:F:875:LEU:HD21	1:F:902:GLN:HG2	1.67	0.77
1:F:421:LEU:HD23	1:F:424:ILE:HD12	1.67	0.77
1:H:478:VAL:O	1:H:481:SER:OG	2.01	0.77
1:H:421:LEU:HD23	1:H:424:ILE:HD12	1.67	0.76
1:F:578:PHE:O	1:F:582:LYS:NZ	2.14	0.76
1:D:176:SER:O	1:D:180:GLN:NE2	2.19	0.76
1:G:602:LEU:HD22	1:G:605:CYS:SG	2.26	0.76
1:K:176:SER:O	1:K:180:GLN:NE2	2.19	0.76
1:B:176:SER:O	1:B:180:GLN:NE2	2.19	0.76
1:A:176:SER:O	1:A:180:GLN:NE2	2.19	0.76
1:C:176:SER:O	1:C:180:GLN:NE2	2.19	0.76
1:E:176:SER:O	1:E:180:GLN:NE2	2.19	0.76
1:G:115:LEU:O	1:G:130:LEU:N	2.17	0.76
1:E:421:LEU:HD23	1:E:424:ILE:HD12	1.67	0.76
1:J:478:VAL:O	1:J:481:SER:OG	2.01	0.76
1:E:602:LEU:HD22	1:E:605:CYS:SG	2.26	0.76
1:I:421:LEU:HD23	1:I:424:ILE:HD12	1.67	0.76
1:J:176:SER:O	1:J:180:GLN:NE2	2.19	0.76
1:G:421:LEU:HD23	1:G:424:ILE:HD12	1.67	0.76
1:I:478:VAL:O	1:I:481:SER:OG	2.01	0.76
1:F:176:SER:O	1:F:180:GLN:NE2	2.19	0.76
1:I:602:LEU:HD22	1:I:605:CYS:SG	2.26	0.76
1:C:398:LEU:HD21	1:C:455:LEU:HG	1.68	0.75
1:D:421:LEU:HD23	1:D:424:ILE:HD12	1.67	0.75
1:A:1015:ILE:HG21	1:B:653:PHE:HB3	1.67	0.75
1:D:602:LEU:HD22	1:D:605:CYS:SG	2.26	0.75
1:H:602:LEU:HD22	1:H:605:CYS:SG	2.26	0.75
1:C:602:LEU:HD22	1:C:605:CYS:SG	2.25	0.75
1:E:398:LEU:HD21	1:E:455:LEU:HG	1.68	0.75
1:I:176:SER:O	1:I:180:GLN:NE2	2.19	0.75
1:A:115:LEU:O	1:A:130:LEU:N	2.17	0.75
1:J:421:LEU:HD23	1:J:424:ILE:HD12	1.67	0.75
1:E:126:ILE:HG22	1:E:127:ILE:HG13	1.69	0.75
1:H:126:ILE:HG22	1:H:127:ILE:HG13	1.69	0.75
1:K:602:LEU:HD22	1:K:605:CYS:SG	2.26	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:602:LEU:HD22	1:F:605:CYS:SG	2.26	0.75
1:E:1015:ILE:HG21	1:F:653:PHE:HB3	1.69	0.75
1:I:126:ILE:HG22	1:I:127:ILE:HG13	1.69	0.75
1:F:1015:ILE:HG21	1:G:653:PHE:HB3	1.68	0.75
1:C:421:LEU:HD23	1:C:424:ILE:HD12	1.67	0.75
1:A:602:LEU:HD22	1:A:605:CYS:SG	2.26	0.75
1:G:126:ILE:HG22	1:G:127:ILE:HG13	1.69	0.75
1:A:126:ILE:HG22	1:A:127:ILE:HG13	1.69	0.75
1:B:602:LEU:HD22	1:B:605:CYS:SG	2.26	0.75
1:J:126:ILE:HG22	1:J:127:ILE:HG13	1.69	0.75
1:D:126:ILE:HG22	1:D:127:ILE:HG13	1.69	0.75
1:K:126:ILE:HG22	1:K:127:ILE:HG13	1.69	0.75
1:F:126:ILE:HG22	1:F:127:ILE:HG13	1.69	0.75
1:G:176:SER:O	1:G:180:GLN:NE2	2.19	0.75
1:K:421:LEU:HD23	1:K:424:ILE:HD12	1.67	0.74
1:J:602:LEU:HD22	1:J:605:CYS:SG	2.26	0.74
1:A:398:LEU:HD21	1:A:455:LEU:HG	1.68	0.74
1:B:126:ILE:HG22	1:B:127:ILE:HG13	1.69	0.74
1:H:176:SER:O	1:H:180:GLN:NE2	2.19	0.74
1:J:868:LEU:HD23	1:J:871:LEU:HD12	1.69	0.74
1:C:1015:ILE:HG21	1:D:653:PHE:HB3	1.69	0.74
1:D:1015:ILE:HG21	1:E:653:PHE:HB3	1.70	0.74
1:B:421:LEU:HD23	1:B:424:ILE:HD12	1.67	0.74
1:G:398:LEU:HD21	1:G:455:LEU:HG	1.68	0.74
1:D:868:LEU:HD23	1:D:871:LEU:HD12	1.69	0.74
1:A:421:LEU:HD23	1:A:424:ILE:HD12	1.67	0.74
1:G:1015:ILE:HG21	1:H:653:PHE:HB3	1.69	0.74
1:C:126:ILE:HG22	1:C:127:ILE:HG13	1.69	0.74
1:E:868:LEU:HD23	1:E:871:LEU:HD12	1.69	0.74
1:I:398:LEU:HD21	1:I:455:LEU:HG	1.68	0.74
1:J:398:LEU:HD21	1:J:455:LEU:HG	1.68	0.74
1:C:868:LEU:HD23	1:C:871:LEU:HD12	1.69	0.73
1:F:868:LEU:HD23	1:F:871:LEU:HD12	1.69	0.73
1:G:181:ARG:HD2	1:G:184:MET:HB3	1.71	0.73
1:F:181:ARG:HD2	1:F:184:MET:HB3	1.71	0.73
1:A:868:LEU:HD23	1:A:871:LEU:HD12	1.69	0.73
1:H:868:LEU:HD23	1:H:871:LEU:HD12	1.69	0.73
1:K:115:LEU:O	1:K:130:LEU:N	2.17	0.73
1:D:398:LEU:HD21	1:D:455:LEU:HG	1.68	0.73
1:K:868:LEU:HD23	1:K:871:LEU:HD12	1.69	0.73
1:H:398:LEU:HD21	1:H:455:LEU:HG	1.68	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:398:LEU:HD21	1:K:455:LEU:HG	1.68	0.73
1:H:181:ARG:HD2	1:H:184:MET:HB3	1.71	0.73
1:G:868:LEU:HD23	1:G:871:LEU:HD12	1.69	0.73
1:I:572:SER:HB3	1:I:602:LEU:HD11	1.70	0.73
1:I:181:ARG:HD2	1:I:184:MET:HB3	1.71	0.73
1:B:398:LEU:HD21	1:B:455:LEU:HG	1.68	0.73
1:E:181:ARG:HD2	1:E:184:MET:HB3	1.71	0.73
1:G:572:SER:HB3	1:G:602:LEU:HD11	1.70	0.73
1:H:572:SER:HB3	1:H:602:LEU:HD11	1.70	0.73
1:F:572:SER:HB3	1:F:602:LEU:HD11	1.70	0.73
1:J:572:SER:HB3	1:J:602:LEU:HD11	1.70	0.73
1:F:398:LEU:HD21	1:F:455:LEU:HG	1.68	0.73
1:J:181:ARG:HD2	1:J:184:MET:HB3	1.71	0.73
1:E:572:SER:HB3	1:E:602:LEU:HD11	1.70	0.73
1:D:572:SER:HB3	1:D:602:LEU:HD11	1.70	0.73
1:K:572:SER:HB3	1:K:602:LEU:HD11	1.70	0.73
1:I:1015:ILE:HG21	1:J:653:PHE:HB3	1.69	0.73
1:K:181:ARG:HD2	1:K:184:MET:HB3	1.71	0.73
1:D:181:ARG:HD2	1:D:184:MET:HB3	1.71	0.73
1:A:181:ARG:HD2	1:A:184:MET:HB3	1.71	0.72
1:I:112:PRO:O	1:I:116:ASN:N	2.22	0.72
1:K:653:PHE:HB3	1:J:1015:ILE:CG2	2.18	0.72
1:A:167:ILE:HA	1:A:295:ALA:H	1.54	0.72
1:H:167:ILE:HA	1:H:295:ALA:H	1.54	0.72
1:H:112:PRO:O	1:H:116:ASN:N	2.22	0.72
1:C:181:ARG:HD2	1:C:184:MET:HB3	1.71	0.72
1:B:868:LEU:HD23	1:B:871:LEU:HD12	1.69	0.72
1:B:181:ARG:HD2	1:B:184:MET:HB3	1.71	0.72
1:K:167:ILE:HA	1:K:295:ALA:H	1.54	0.72
1:A:572:SER:HB3	1:A:602:LEU:HD11	1.70	0.72
1:E:167:ILE:HA	1:E:295:ALA:H	1.54	0.72
1:F:167:ILE:HA	1:F:295:ALA:H	1.54	0.72
1:G:112:PRO:O	1:G:116:ASN:N	2.22	0.72
1:C:572:SER:HB3	1:C:602:LEU:HD11	1.70	0.72
1:I:868:LEU:HD23	1:I:871:LEU:HD12	1.69	0.72
1:G:167:ILE:HA	1:G:295:ALA:H	1.54	0.72
1:D:167:ILE:HA	1:D:295:ALA:H	1.54	0.72
1:B:1015:ILE:HG21	1:C:653:PHE:HB3	1.71	0.72
1:K:119:PRO:HA	1:J:289:HIS:CE1	2.25	0.72
1:B:167:ILE:HA	1:B:295:ALA:H	1.54	0.72
1:J:167:ILE:HA	1:J:295:ALA:H	1.54	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:112:PRO:O	1:B:116:ASN:N	2.22	0.72
1:A:112:PRO:O	1:A:116:ASN:N	2.22	0.72
1:F:112:PRO:O	1:F:116:ASN:N	2.22	0.71
1:B:572:SER:HB3	1:B:602:LEU:HD11	1.70	0.71
1:K:112:PRO:O	1:K:116:ASN:N	2.22	0.71
1:C:167:ILE:HA	1:C:295:ALA:H	1.54	0.71
1:C:112:PRO:O	1:C:116:ASN:N	2.22	0.71
1:H:1015:ILE:HG21	1:I:653:PHE:HB3	1.71	0.71
1:I:167:ILE:HA	1:I:295:ALA:H	1.54	0.71
1:J:112:PRO:O	1:J:116:ASN:N	2.22	0.70
1:F:657:GLN:HB3	1:F:658:GLU:HG2	1.73	0.70
1:C:875:LEU:HA	1:C:878:LEU:HB2	1.74	0.70
1:B:875:LEU:HA	1:B:878:LEU:HB2	1.74	0.70
1:H:875:LEU:HA	1:H:878:LEU:HB2	1.73	0.70
1:J:798:LEU:HB3	1:J:801:LEU:HD11	1.73	0.70
1:D:112:PRO:O	1:D:116:ASN:N	2.22	0.70
1:I:875:LEU:HA	1:I:878:LEU:HB2	1.74	0.70
1:K:798:LEU:HB3	1:K:801:LEU:HD11	1.73	0.70
1:G:657:GLN:HB3	1:G:658:GLU:HG2	1.74	0.70
1:B:385:ASP:O	1:B:388:ARG:HB2	1.92	0.70
1:D:875:LEU:HA	1:D:878:LEU:HB2	1.74	0.70
1:K:875:LEU:HA	1:K:878:LEU:HB2	1.74	0.70
1:I:798:LEU:HB3	1:I:801:LEU:HD11	1.73	0.70
1:A:385:ASP:O	1:A:388:ARG:HB2	1.92	0.70
1:H:657:GLN:HB3	1:H:658:GLU:HG2	1.73	0.70
1:C:385:ASP:O	1:C:388:ARG:HB2	1.92	0.70
1:K:1015:ILE:HG21	1:A:653:PHE:HB3	1.74	0.70
1:A:875:LEU:HA	1:A:878:LEU:HB2	1.74	0.70
1:G:875:LEU:HA	1:G:878:LEU:HB2	1.74	0.70
1:J:875:LEU:HA	1:J:878:LEU:HB2	1.74	0.70
1:I:385:ASP:O	1:I:388:ARG:HB2	1.92	0.70
1:E:112:PRO:O	1:E:116:ASN:N	2.22	0.70
1:D:385:ASP:O	1:D:388:ARG:HB2	1.92	0.70
1:F:385:ASP:O	1:F:388:ARG:HB2	1.92	0.70
1:H:798:LEU:HB3	1:H:801:LEU:HD11	1.73	0.70
1:E:657:GLN:HB3	1:E:658:GLU:HG2	1.74	0.70
1:D:657:GLN:HB3	1:D:658:GLU:HG2	1.74	0.70
1:K:385:ASP:O	1:K:388:ARG:HB2	1.92	0.70
1:E:875:LEU:HA	1:E:878:LEU:HB2	1.74	0.70
1:A:798:LEU:HB3	1:A:801:LEU:HD11	1.73	0.70
1:I:657:GLN:HB3	1:I:658:GLU:HG2	1.73	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:875:LEU:HA	1:F:878:LEU:HB2	1.74	0.69
1:E:385:ASP:O	1:E:388:ARG:HB2	1.92	0.69
1:F:914:LEU:HD12	1:F:919:LEU:HD11	1.74	0.69
1:J:657:GLN:HB3	1:J:658:GLU:HG2	1.73	0.69
1:H:385:ASP:O	1:H:388:ARG:HB2	1.92	0.69
1:G:914:LEU:HD12	1:G:919:LEU:HD11	1.74	0.69
1:G:798:LEU:HB3	1:G:801:LEU:HD11	1.73	0.69
1:G:385:ASP:O	1:G:388:ARG:HB2	1.92	0.69
1:C:657:GLN:HB3	1:C:658:GLU:HG2	1.74	0.69
1:K:125:ASP:N	1:J:433:GLN:HG2	2.05	0.69
1:A:517:SER:O	1:A:550:ASN:ND2	2.26	0.69
1:J:385:ASP:O	1:J:388:ARG:HB2	1.92	0.69
1:K:517:SER:O	1:K:550:ASN:ND2	2.26	0.69
1:J:517:SER:O	1:J:550:ASN:ND2	2.26	0.69
1:E:914:LEU:HD12	1:E:919:LEU:HD11	1.74	0.69
1:B:798:LEU:HB3	1:B:801:LEU:HD11	1.73	0.69
1:B:517:SER:O	1:B:550:ASN:ND2	2.26	0.69
1:I:517:SER:O	1:I:550:ASN:ND2	2.26	0.69
1:A:534:ILE:HB	1:A:693:HIS:HB2	1.75	0.69
1:A:914:LEU:HD12	1:A:919:LEU:HD11	1.74	0.69
1:F:798:LEU:HB3	1:F:801:LEU:HD11	1.73	0.69
1:A:340:PHE:HA	1:A:343:ILE:HD12	1.75	0.69
1:B:340:PHE:HA	1:B:343:ILE:HD12	1.75	0.69
1:F:552:ASN:HD22	1:F:584:LEU:HA	1.58	0.69
1:H:517:SER:O	1:H:550:ASN:ND2	2.26	0.69
1:K:534:ILE:HB	1:K:693:HIS:HB2	1.75	0.69
1:G:552:ASN:HD22	1:G:584:LEU:HA	1.58	0.69
1:D:914:LEU:HD12	1:D:919:LEU:HD11	1.74	0.69
1:K:657:GLN:HB3	1:K:658:GLU:HG2	1.74	0.69
1:B:534:ILE:HB	1:B:693:HIS:HB2	1.75	0.69
1:H:914:LEU:HD12	1:H:919:LEU:HD11	1.74	0.69
1:E:798:LEU:HB3	1:E:801:LEU:HD11	1.73	0.69
1:D:340:PHE:HA	1:D:343:ILE:HD12	1.75	0.69
1:E:420:VAL:O	1:E:424:ILE:HG13	1.93	0.68
1:C:798:LEU:HB3	1:C:801:LEU:HD11	1.73	0.68
1:E:340:PHE:HA	1:E:343:ILE:HD12	1.75	0.68
1:K:340:PHE:HA	1:K:343:ILE:HD12	1.75	0.68
1:B:657:GLN:HB3	1:B:658:GLU:HG2	1.74	0.68
1:C:517:SER:O	1:C:550:ASN:ND2	2.26	0.68
1:C:340:PHE:HA	1:C:343:ILE:HD12	1.75	0.68
1:D:798:LEU:HB3	1:D:801:LEU:HD11	1.73	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:860:LEU:HD12	1:F:864:GLY:HA2	1.75	0.68
1:G:517:SER:O	1:G:550:ASN:ND2	2.26	0.68
1:I:860:LEU:HD12	1:I:864:GLY:HA2	1.76	0.68
1:I:534:ILE:HB	1:I:693:HIS:HB2	1.75	0.68
1:B:914:LEU:HD12	1:B:919:LEU:HD11	1.74	0.68
1:E:860:LEU:HD12	1:E:864:GLY:HA2	1.76	0.68
1:J:534:ILE:HB	1:J:693:HIS:HB2	1.75	0.68
1:G:860:LEU:HD12	1:G:864:GLY:HA2	1.76	0.68
1:C:860:LEU:HD12	1:C:864:GLY:HA2	1.76	0.68
1:J:860:LEU:HD12	1:J:864:GLY:HA2	1.75	0.68
1:K:914:LEU:HD12	1:K:919:LEU:HD11	1.74	0.68
1:I:552:ASN:HD22	1:I:584:LEU:HA	1.58	0.68
1:C:534:ILE:HB	1:C:693:HIS:HB2	1.75	0.68
1:D:420:VAL:O	1:D:424:ILE:HG13	1.93	0.68
1:B:552:ASN:HD22	1:B:584:LEU:HA	1.58	0.68
1:B:860:LEU:HD12	1:B:864:GLY:HA2	1.76	0.68
1:F:340:PHE:HA	1:F:343:ILE:HD12	1.75	0.68
1:E:552:ASN:HD22	1:E:584:LEU:HA	1.58	0.68
1:G:420:VAL:O	1:G:424:ILE:HG13	1.93	0.68
1:A:657:GLN:HB3	1:A:658:GLU:HG2	1.73	0.68
1:D:517:SER:O	1:D:550:ASN:ND2	2.26	0.68
1:J:340:PHE:HA	1:J:343:ILE:HD12	1.75	0.68
1:A:552:ASN:HD22	1:A:584:LEU:HA	1.58	0.68
1:F:517:SER:O	1:F:550:ASN:ND2	2.26	0.68
1:K:420:VAL:O	1:K:424:ILE:HG13	1.93	0.68
1:J:360:THR:O	1:J:363:PHE:HB2	1.94	0.68
1:H:860:LEU:HD12	1:H:864:GLY:HA2	1.76	0.68
1:D:860:LEU:HD12	1:D:864:GLY:HA2	1.76	0.68
1:C:914:LEU:HD12	1:C:919:LEU:HD11	1.74	0.68
1:B:420:VAL:O	1:B:424:ILE:HG13	1.93	0.68
1:H:552:ASN:HD22	1:H:584:LEU:HA	1.58	0.68
1:E:517:SER:O	1:E:550:ASN:ND2	2.26	0.68
1:H:534:ILE:HB	1:H:693:HIS:HB2	1.75	0.68
1:K:860:LEU:HD12	1:K:864:GLY:HA2	1.76	0.68
1:A:860:LEU:HD12	1:A:864:GLY:HA2	1.76	0.68
1:C:552:ASN:HD22	1:C:584:LEU:HA	1.58	0.68
1:J:420:VAL:O	1:J:423:THR:OG1	2.09	0.68
1:I:914:LEU:HD12	1:I:919:LEU:HD11	1.74	0.68
1:I:340:PHE:HA	1:I:343:ILE:HD12	1.75	0.68
1:A:360:THR:O	1:A:363:PHE:HB2	1.94	0.68
1:D:534:ILE:HB	1:D:693:HIS:HB2	1.75	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:340:PHE:HA	1:G:343:ILE:HD12	1.75	0.68
1:A:420:VAL:O	1:A:423:THR:OG1	2.09	0.67
1:C:420:VAL:O	1:C:424:ILE:HG13	1.93	0.67
1:G:534:ILE:HB	1:G:693:HIS:HB2	1.75	0.67
1:J:420:VAL:O	1:J:424:ILE:HG13	1.93	0.67
1:I:420:VAL:O	1:I:424:ILE:HG13	1.93	0.67
1:H:340:PHE:HA	1:H:343:ILE:HD12	1.75	0.67
1:I:360:THR:O	1:I:363:PHE:HB2	1.94	0.67
1:G:360:THR:O	1:G:363:PHE:HB2	1.94	0.67
1:E:534:ILE:HB	1:E:693:HIS:HB2	1.75	0.67
1:B:356:ALA:N	1:B:357:HIS:HA	2.10	0.67
1:G:940:GLN:O	1:G:969:PHE:N	2.28	0.67
1:B:940:GLN:O	1:B:969:PHE:N	2.28	0.67
1:E:420:VAL:O	1:E:423:THR:OG1	2.09	0.67
1:F:420:VAL:O	1:F:424:ILE:HG13	1.93	0.67
1:J:552:ASN:HD22	1:J:584:LEU:HA	1.58	0.67
1:K:552:ASN:HD22	1:K:584:LEU:HA	1.58	0.67
1:I:940:GLN:O	1:I:969:PHE:N	2.28	0.67
1:D:552:ASN:HD22	1:D:584:LEU:HA	1.58	0.67
1:K:940:GLN:O	1:K:969:PHE:N	2.28	0.67
1:H:360:THR:O	1:H:363:PHE:HB2	1.94	0.67
1:H:420:VAL:O	1:H:424:ILE:HG13	1.93	0.67
1:F:534:ILE:HB	1:F:693:HIS:HB2	1.75	0.67
1:F:360:THR:O	1:F:363:PHE:HB2	1.94	0.67
1:F:940:GLN:O	1:F:969:PHE:N	2.28	0.67
1:E:360:THR:O	1:E:363:PHE:HB2	1.94	0.67
1:D:360:THR:O	1:D:363:PHE:HB2	1.94	0.67
1:B:360:THR:O	1:B:363:PHE:HB2	1.94	0.67
1:J:914:LEU:HD12	1:J:919:LEU:HD11	1.74	0.67
1:C:360:THR:O	1:C:363:PHE:HB2	1.94	0.67
1:E:940:GLN:O	1:E:969:PHE:N	2.28	0.67
1:C:356:ALA:N	1:C:357:HIS:HA	2.10	0.66
1:A:940:GLN:O	1:A:969:PHE:N	2.28	0.66
1:J:940:GLN:O	1:J:969:PHE:N	2.28	0.66
1:I:420:VAL:O	1:I:423:THR:OG1	2.09	0.66
1:G:356:ALA:N	1:G:357:HIS:HA	2.10	0.66
1:A:356:ALA:N	1:A:357:HIS:HA	2.10	0.66
1:K:360:THR:O	1:K:363:PHE:HB2	1.94	0.66
1:H:356:ALA:N	1:H:357:HIS:HA	2.10	0.66
1:H:940:GLN:O	1:H:969:PHE:N	2.28	0.66
1:F:356:ALA:N	1:F:357:HIS:HA	2.10	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:940:GLN:O	1:D:969:PHE:N	2.28	0.66
1:A:420:VAL:O	1:A:424:ILE:HG13	1.93	0.66
1:J:356:ALA:N	1:J:357:HIS:HA	2.10	0.66
1:I:356:ALA:N	1:I:357:HIS:HA	2.10	0.66
1:D:1011:ASP:OD2	1:E:679:TYR:HE1	1.79	0.65
1:H:420:VAL:O	1:H:423:THR:OG1	2.10	0.65
1:J:694:ILE:HG21	1:J:700:MET:HG3	1.79	0.65
1:E:356:ALA:N	1:E:357:HIS:HA	2.10	0.65
1:G:420:VAL:O	1:G:423:THR:OG1	2.09	0.65
1:H:694:ILE:HG21	1:H:700:MET:HG3	1.79	0.65
1:K:714:MET:HB3	1:K:735:VAL:HG21	1.79	0.65
1:A:694:ILE:HG21	1:A:700:MET:HG3	1.79	0.65
1:I:714:MET:HB3	1:I:735:VAL:HG21	1.79	0.65
1:J:714:MET:HB3	1:J:735:VAL:HG21	1.79	0.65
1:H:714:MET:HB3	1:H:735:VAL:HG21	1.79	0.65
1:C:940:GLN:O	1:C:969:PHE:N	2.28	0.65
1:H:216:LEU:O	1:H:220:LEU:N	2.30	0.65
1:I:1011:ASP:OD2	1:J:679:TYR:HE1	1.80	0.65
1:D:356:ALA:N	1:D:357:HIS:HA	2.10	0.65
1:I:216:LEU:O	1:I:220:LEU:N	2.30	0.65
1:K:356:ALA:N	1:K:357:HIS:HA	2.10	0.65
1:C:1011:ASP:OD2	1:D:679:TYR:HE1	1.80	0.65
1:J:216:LEU:O	1:J:220:LEU:N	2.30	0.65
1:F:420:VAL:O	1:F:423:THR:OG1	2.09	0.65
1:G:216:LEU:O	1:G:220:LEU:N	2.30	0.65
1:K:679:TYR:HE1	1:J:1011:ASP:OD2	1.79	0.65
1:K:216:LEU:O	1:K:220:LEU:N	2.30	0.65
1:K:420:VAL:O	1:K:423:THR:OG1	2.09	0.65
1:F:694:ILE:HG21	1:F:700:MET:HG3	1.79	0.65
1:E:448:GLU:HB3	1:E:493:TYR:CE2	2.32	0.65
1:A:448:GLU:HB3	1:A:493:TYR:CE2	2.32	0.65
1:D:448:GLU:HB3	1:D:493:TYR:CE2	2.32	0.65
1:F:216:LEU:O	1:F:220:LEU:N	2.30	0.65
1:K:448:GLU:HB3	1:K:493:TYR:CE2	2.32	0.65
1:C:399:GLU:O	1:C:403:ALA:N	2.17	0.64
1:C:448:GLU:HB3	1:C:493:TYR:CE2	2.32	0.64
1:B:216:LEU:O	1:B:220:LEU:N	2.30	0.64
1:A:714:MET:HB3	1:A:735:VAL:HG21	1.79	0.64
1:J:448:GLU:HB3	1:J:493:TYR:CE2	2.32	0.64
1:G:448:GLU:HB3	1:G:493:TYR:CE2	2.32	0.64
1:B:448:GLU:HB3	1:B:493:TYR:CE2	2.32	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:714:MET:HB3	1:B:735:VAL:HG21	1.79	0.64
1:A:216:LEU:O	1:A:220:LEU:N	2.30	0.64
1:B:399:GLU:O	1:B:403:ALA:N	2.17	0.64
1:D:399:GLU:O	1:D:403:ALA:N	2.17	0.64
1:E:216:LEU:O	1:E:220:LEU:N	2.30	0.64
1:D:826:LYS:HA	1:D:854:ASP:HB3	1.79	0.64
1:F:714:MET:HB3	1:F:735:VAL:HG21	1.79	0.64
1:G:714:MET:HB3	1:G:735:VAL:HG21	1.79	0.64
1:G:1011:ASP:OD2	1:H:679:TYR:HE1	1.80	0.64
1:B:1011:ASP:OD2	1:C:679:TYR:HE1	1.81	0.64
1:G:247:LEU:O	1:G:278:THR:HB	1.98	0.64
1:C:694:ILE:HG21	1:C:700:MET:HG3	1.79	0.64
1:H:448:GLU:HB3	1:H:493:TYR:CE2	2.32	0.64
1:G:289:HIS:CE1	1:H:119:PRO:HA	2.32	0.64
1:K:247:LEU:O	1:K:278:THR:HB	1.98	0.64
1:F:235:LEU:HA	1:F:238:LYS:HD2	1.80	0.64
1:A:247:LEU:O	1:A:278:THR:HB	1.98	0.64
1:I:289:HIS:CE1	1:J:119:PRO:HA	2.33	0.64
1:D:694:ILE:HG21	1:D:700:MET:HG3	1.79	0.64
1:D:235:LEU:HA	1:D:238:LYS:HD2	1.80	0.64
1:B:826:LYS:HA	1:B:854:ASP:HB3	1.79	0.64
1:B:247:LEU:O	1:B:278:THR:HB	1.98	0.64
1:C:825:MET:O	1:C:854:ASP:N	2.25	0.64
1:H:924:ILE:HG13	1:H:957:PHE:CD1	2.33	0.64
1:E:247:LEU:O	1:E:278:THR:HB	1.98	0.64
1:E:826:LYS:HA	1:E:854:ASP:HB3	1.79	0.64
1:K:399:GLU:O	1:K:403:ALA:N	2.17	0.64
1:C:393:CYS:O	1:C:396:LEU:HB2	1.98	0.64
1:K:694:ILE:HG21	1:K:700:MET:HG3	1.79	0.64
1:B:694:ILE:HG21	1:B:700:MET:HG3	1.79	0.64
1:F:393:CYS:O	1:F:396:LEU:HB2	1.98	0.64
1:J:247:LEU:O	1:J:278:THR:HB	1.98	0.64
1:F:924:ILE:HG13	1:F:957:PHE:CD1	2.33	0.64
1:D:247:LEU:O	1:D:278:THR:HB	1.98	0.64
1:A:1011:ASP:OD2	1:B:679:TYR:HE1	1.80	0.64
1:D:216:LEU:O	1:D:220:LEU:N	2.30	0.64
1:F:1011:ASP:OD2	1:G:679:TYR:HE1	1.79	0.64
1:G:393:CYS:O	1:G:396:LEU:HB2	1.98	0.64
1:K:433:GLN:HE21	1:A:125:ASP:HB2	1.62	0.64
1:I:694:ILE:HG21	1:I:700:MET:HG3	1.79	0.64
1:C:714:MET:HB3	1:C:735:VAL:HG21	1.79	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:216:LEU:O	1:C:220:LEU:N	2.30	0.64
1:E:1013:SER:HA	1:E:1016:LYS:HB3	1.80	0.64
1:E:393:CYS:O	1:E:396:LEU:HB2	1.98	0.64
1:H:393:CYS:O	1:H:396:LEU:HB2	1.98	0.64
1:D:825:MET:O	1:D:854:ASP:N	2.25	0.64
1:D:337:THR:HG22	1:D:339:LEU:H	1.63	0.64
1:C:247:LEU:O	1:C:278:THR:HB	1.98	0.64
1:D:714:MET:HB3	1:D:735:VAL:HG21	1.79	0.64
1:I:924:ILE:HG13	1:I:957:PHE:CD1	2.33	0.64
1:A:399:GLU:O	1:A:403:ALA:N	2.17	0.63
1:A:370:LEU:O	1:A:374:ASN:ND2	2.29	0.63
1:C:390:LEU:HB2	1:C:421:LEU:HD21	1.80	0.63
1:F:448:GLU:HB3	1:F:493:TYR:CE2	2.32	0.63
1:G:924:ILE:HG13	1:G:957:PHE:CD1	2.33	0.63
1:H:468:SER:HA	1:H:471:ASN:HB2	1.80	0.63
1:D:393:CYS:O	1:D:396:LEU:HB2	1.98	0.63
1:K:924:ILE:HG13	1:K:957:PHE:CD1	2.33	0.63
1:F:468:SER:HA	1:F:471:ASN:HB2	1.80	0.63
1:E:399:GLU:O	1:E:403:ALA:N	2.17	0.63
1:D:390:LEU:HB2	1:D:421:LEU:HD21	1.80	0.63
1:G:666:LEU:HG	1:G:692:LEU:HD11	1.81	0.63
1:B:825:MET:O	1:B:854:ASP:N	2.25	0.63
1:I:247:LEU:O	1:I:278:THR:HB	1.98	0.63
1:F:337:THR:HG22	1:F:339:LEU:H	1.63	0.63
1:F:826:LYS:HA	1:F:854:ASP:HB3	1.79	0.63
1:C:235:LEU:HA	1:C:238:LYS:HD2	1.80	0.63
1:G:808:MET:HG2	1:G:830:CYS:SG	2.39	0.63
1:H:666:LEU:HG	1:H:692:LEU:HD11	1.81	0.63
1:F:666:LEU:HG	1:F:692:LEU:HD11	1.80	0.63
1:J:235:LEU:HA	1:J:238:LYS:HD2	1.80	0.63
1:J:199:LEU:O	1:J:243:VAL:HA	1.99	0.63
1:K:235:LEU:HA	1:K:238:LYS:HD2	1.80	0.63
1:C:1013:SER:HA	1:C:1016:LYS:HB3	1.80	0.63
1:G:337:THR:HG22	1:G:339:LEU:H	1.63	0.63
1:D:1013:SER:HA	1:D:1016:LYS:HB3	1.80	0.63
1:C:924:ILE:HG13	1:C:957:PHE:CD1	2.33	0.63
1:H:337:THR:HG22	1:H:339:LEU:H	1.64	0.63
1:K:370:LEU:O	1:K:374:ASN:ND2	2.29	0.63
1:B:390:LEU:HB2	1:B:421:LEU:HD21	1.80	0.63
1:B:666:LEU:HG	1:B:692:LEU:HD11	1.81	0.63
1:C:666:LEU:HG	1:C:692:LEU:HD11	1.81	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:694:ILE:HG21	1:G:700:MET:HG3	1.79	0.63
1:E:694:ILE:HG21	1:E:700:MET:HG3	1.79	0.63
1:H:199:LEU:O	1:H:243:VAL:HA	1.99	0.63
1:H:247:LEU:O	1:H:278:THR:HB	1.98	0.63
1:G:1013:SER:HA	1:G:1016:LYS:HB3	1.80	0.63
1:I:826:LYS:HA	1:I:854:ASP:HB3	1.79	0.63
1:E:337:THR:HG22	1:E:339:LEU:H	1.64	0.63
1:B:199:LEU:O	1:B:243:VAL:HA	1.99	0.63
1:J:924:ILE:HG13	1:J:957:PHE:CD1	2.33	0.63
1:A:199:LEU:O	1:A:243:VAL:HA	1.99	0.63
1:G:826:LYS:HA	1:G:854:ASP:HB3	1.79	0.63
1:E:390:LEU:HB2	1:E:421:LEU:HD21	1.80	0.63
1:K:808:MET:HG2	1:K:830:CYS:SG	2.39	0.63
1:F:370:LEU:O	1:F:374:ASN:ND2	2.29	0.63
1:D:666:LEU:HG	1:D:692:LEU:HD11	1.80	0.63
1:I:448:GLU:HB3	1:I:493:TYR:CE2	2.32	0.63
1:I:825:MET:O	1:I:854:ASP:N	2.25	0.63
1:D:289:HIS:CE1	1:E:119:PRO:HA	2.33	0.63
1:E:659:PHE:N	1:E:686:SER:O	2.32	0.63
1:F:1013:SER:HA	1:F:1016:LYS:HB3	1.80	0.63
1:I:749:GLN:HA	1:I:774:ARG:O	1.99	0.63
1:E:714:MET:HB3	1:E:735:VAL:HG21	1.79	0.63
1:H:1011:ASP:OD2	1:I:679:TYR:HE1	1.82	0.63
1:D:924:ILE:HG13	1:D:957:PHE:CD1	2.33	0.63
1:B:808:MET:HG2	1:B:830:CYS:SG	2.39	0.63
1:C:826:LYS:HA	1:C:854:ASP:HB3	1.79	0.63
1:K:749:GLN:HA	1:K:774:ARG:O	1.99	0.63
1:C:611:PHE:HB3	1:C:661:THR:HG23	1.81	0.63
1:G:468:SER:HA	1:G:471:ASN:HB2	1.80	0.63
1:G:844:LEU:HD12	1:G:847:LEU:HB2	1.81	0.63
1:E:235:LEU:HA	1:E:238:LYS:HD2	1.79	0.63
1:I:468:SER:HA	1:I:471:ASN:HB2	1.80	0.63
1:C:844:LEU:HD12	1:C:847:LEU:HB2	1.81	0.63
1:G:235:LEU:HA	1:G:238:LYS:HD2	1.79	0.63
1:F:247:LEU:O	1:F:278:THR:HB	1.98	0.63
1:I:337:THR:HG22	1:I:339:LEU:H	1.63	0.63
1:H:399:GLU:O	1:H:403:ALA:N	2.17	0.63
1:E:808:MET:HG2	1:E:830:CYS:SG	2.39	0.63
1:F:1015:ILE:CG2	1:G:653:PHE:HB3	2.28	0.63
1:C:337:THR:HG22	1:C:339:LEU:H	1.63	0.63
1:I:666:LEU:HG	1:I:692:LEU:HD11	1.81	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:666:LEU:HG	1:E:692:LEU:HD11	1.81	0.63
1:B:393:CYS:O	1:B:396:LEU:HB2	1.98	0.63
1:C:703:ARG:O	1:C:706:SER:OG	2.17	0.63
1:F:749:GLN:HA	1:F:774:ARG:O	1.99	0.63
1:D:703:ARG:O	1:D:706:SER:OG	2.17	0.63
1:H:826:LYS:HA	1:H:854:ASP:HB3	1.79	0.63
1:J:826:LYS:HA	1:J:854:ASP:HB3	1.79	0.63
1:I:393:CYS:O	1:I:396:LEU:HB2	1.98	0.63
1:A:289:HIS:CE1	1:B:119:PRO:HA	2.33	0.63
1:G:199:LEU:O	1:G:243:VAL:HA	1.99	0.63
1:H:235:LEU:HA	1:H:238:LYS:HD2	1.80	0.63
1:B:235:LEU:HA	1:B:238:LYS:HD2	1.80	0.63
1:E:468:SER:HA	1:E:471:ASN:HB2	1.80	0.63
1:K:393:CYS:O	1:K:396:LEU:HB2	1.98	0.63
1:C:199:LEU:O	1:C:243:VAL:HA	1.99	0.63
1:A:115:LEU:HD21	1:A:181:ARG:HD3	1.81	0.63
1:J:115:LEU:HD21	1:J:181:ARG:HD3	1.81	0.63
1:D:808:MET:HG2	1:D:830:CYS:SG	2.39	0.63
1:E:551:VAL:HB	1:E:582:LYS:HB3	1.81	0.63
1:H:808:MET:HG2	1:H:830:CYS:SG	2.39	0.63
1:H:844:LEU:HD12	1:H:847:LEU:HB2	1.81	0.63
1:J:749:GLN:HA	1:J:774:ARG:O	1.99	0.63
1:B:844:LEU:HD12	1:B:847:LEU:HB2	1.81	0.63
1:D:844:LEU:HD12	1:D:847:LEU:HB2	1.81	0.63
1:I:235:LEU:HA	1:I:238:LYS:HD2	1.80	0.63
1:F:659:PHE:N	1:F:686:SER:O	2.32	0.63
1:G:395:ASP:O	1:G:399:GLU:HG2	1.99	0.63
1:J:808:MET:HG2	1:J:830:CYS:SG	2.39	0.63
1:C:551:VAL:HB	1:C:582:LYS:HB3	1.81	0.63
1:A:1015:ILE:CG2	1:B:653:PHE:HB3	2.27	0.63
1:A:924:ILE:HG13	1:A:957:PHE:CD1	2.33	0.63
1:A:611:PHE:HB3	1:A:661:THR:HG23	1.81	0.63
1:I:199:LEU:O	1:I:243:VAL:HA	1.99	0.63
1:K:199:LEU:O	1:K:243:VAL:HA	1.99	0.63
1:B:1013:SER:HA	1:B:1016:LYS:HB3	1.80	0.63
1:F:844:LEU:HD12	1:F:847:LEU:HB2	1.81	0.63
1:F:395:ASP:O	1:F:399:GLU:HG2	1.99	0.62
1:A:393:CYS:O	1:A:396:LEU:HB2	1.98	0.62
1:A:390:LEU:HB2	1:A:421:LEU:HD21	1.80	0.62
1:A:666:LEU:HG	1:A:692:LEU:HD11	1.81	0.62
1:I:703:ARG:O	1:I:706:SER:OG	2.17	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:199:LEU:O	1:D:243:VAL:HA	1.99	0.62
1:F:199:LEU:O	1:F:243:VAL:HA	1.99	0.62
1:D:468:SER:HA	1:D:471:ASN:HB2	1.80	0.62
1:K:826:LYS:HA	1:K:854:ASP:HB3	1.79	0.62
1:K:117:PHE:HE2	1:K:130:LEU:HD13	1.65	0.62
1:E:395:ASP:O	1:E:399:GLU:HG2	1.99	0.62
1:C:896:LEU:HD13	1:C:917:TRP:CZ3	2.34	0.62
1:B:896:LEU:HD13	1:B:917:TRP:CZ3	2.34	0.62
1:F:390:LEU:HB2	1:F:421:LEU:HD21	1.80	0.62
1:C:1015:ILE:CG2	1:D:653:PHE:HB3	2.29	0.62
1:A:749:GLN:HA	1:A:774:ARG:O	1.99	0.62
1:A:844:LEU:HD12	1:A:847:LEU:HB2	1.81	0.62
1:H:749:GLN:HA	1:H:774:ARG:O	1.99	0.62
1:J:468:SER:HA	1:J:471:ASN:HB2	1.80	0.62
1:F:289:HIS:CE1	1:G:119:PRO:HA	2.33	0.62
1:E:199:LEU:O	1:E:243:VAL:HA	1.99	0.62
1:A:337:THR:HG22	1:A:339:LEU:H	1.64	0.62
1:K:844:LEU:HD12	1:K:847:LEU:HB2	1.81	0.62
1:B:703:ARG:O	1:B:706:SER:OG	2.17	0.62
1:J:395:ASP:O	1:J:399:GLU:HG2	2.00	0.62
1:H:395:ASP:O	1:H:399:GLU:HG2	2.00	0.62
1:C:117:PHE:HE2	1:C:130:LEU:HD13	1.64	0.62
1:D:896:LEU:HD13	1:D:917:TRP:CZ3	2.35	0.62
1:K:896:LEU:HD13	1:K:917:TRP:CZ3	2.35	0.62
1:G:551:VAL:HB	1:G:582:LYS:HB3	1.81	0.62
1:E:825:MET:O	1:E:854:ASP:N	2.25	0.62
1:E:924:ILE:HG13	1:E:957:PHE:CD1	2.33	0.62
1:C:749:GLN:HA	1:C:774:ARG:O	1.99	0.62
1:A:235:LEU:HA	1:A:238:LYS:HD2	1.80	0.62
1:J:844:LEU:HD12	1:J:847:LEU:HB2	1.81	0.62
1:G:749:GLN:HA	1:G:774:ARG:O	1.99	0.62
1:E:1011:ASP:OD2	1:F:679:TYR:HE1	1.82	0.62
1:C:289:HIS:CE1	1:D:119:PRO:HA	2.33	0.62
1:I:433:GLN:HG2	1:J:125:ASP:N	2.12	0.62
1:D:395:ASP:O	1:D:399:GLU:HG2	2.00	0.62
1:E:607:SER:HB3	1:E:655:TRP:CZ2	2.29	0.62
1:J:390:LEU:HB2	1:J:421:LEU:HD21	1.80	0.62
1:D:781:LYS:O	1:D:784:ALA:HB3	2.00	0.62
1:J:703:ARG:O	1:J:706:SER:OG	2.17	0.62
1:I:844:LEU:HD12	1:I:847:LEU:HB2	1.81	0.62
1:E:844:LEU:HD12	1:E:847:LEU:HB2	1.81	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:479:SER:OG	1:B:480:ILE:N	2.33	0.62
1:A:607:SER:HB3	1:A:655:TRP:CZ2	2.29	0.62
1:F:399:GLU:O	1:F:403:ALA:N	2.17	0.62
1:B:117:PHE:HE2	1:B:130:LEU:HD13	1.64	0.62
1:G:117:PHE:HE2	1:G:130:LEU:HD13	1.64	0.62
1:D:117:PHE:HE2	1:D:130:LEU:HD13	1.64	0.62
1:J:370:LEU:O	1:J:374:ASN:ND2	2.29	0.62
1:A:781:LYS:O	1:A:784:ALA:HB3	2.00	0.62
1:K:890:TRP:HZ3	1:K:918:ARG:HE	1.48	0.62
1:C:781:LYS:O	1:C:784:ALA:HB3	2.00	0.62
1:C:808:MET:HG2	1:C:830:CYS:SG	2.39	0.62
1:G:781:LYS:O	1:G:784:ALA:HB3	2.00	0.62
1:F:808:MET:HG2	1:F:830:CYS:SG	2.39	0.62
1:J:666:LEU:HG	1:J:692:LEU:HD11	1.80	0.62
1:K:679:TYR:CE1	1:J:1011:ASP:OD2	2.53	0.62
1:A:1013:SER:HA	1:A:1016:LYS:HB3	1.80	0.62
1:K:337:THR:HG22	1:K:339:LEU:H	1.63	0.62
1:E:611:PHE:HB3	1:E:661:THR:HG23	1.81	0.62
1:G:659:PHE:N	1:G:686:SER:O	2.32	0.62
1:G:267:GLU:OE1	1:G:270:ARG:NH2	2.33	0.62
1:A:395:ASP:O	1:A:399:GLU:HG2	1.99	0.62
1:H:289:HIS:CE1	1:I:119:PRO:HA	2.33	0.62
1:I:395:ASP:O	1:I:399:GLU:HG2	2.00	0.62
1:D:890:TRP:HZ3	1:D:918:ARG:HE	1.48	0.62
1:F:896:LEU:HD13	1:F:917:TRP:CZ3	2.35	0.62
1:J:781:LYS:O	1:J:784:ALA:HB3	2.00	0.62
1:E:781:LYS:O	1:E:784:ALA:HB3	2.00	0.62
1:H:1013:SER:HA	1:H:1016:LYS:HB3	1.80	0.62
1:A:659:PHE:N	1:A:686:SER:O	2.32	0.62
1:H:611:PHE:HB3	1:H:661:THR:HG23	1.81	0.62
1:J:479:SER:OG	1:J:480:ILE:N	2.33	0.62
1:D:479:SER:OG	1:D:480:ILE:N	2.33	0.62
1:J:393:CYS:O	1:J:396:LEU:HB2	1.98	0.62
1:F:267:GLU:OE1	1:F:270:ARG:NH2	2.33	0.62
1:J:399:GLU:O	1:J:403:ALA:N	2.17	0.62
1:A:117:PHE:HE2	1:A:130:LEU:HD13	1.64	0.62
1:H:390:LEU:HB2	1:H:421:LEU:HD21	1.80	0.62
1:E:890:TRP:HZ3	1:E:918:ARG:HE	1.48	0.62
1:K:390:LEU:HB2	1:K:421:LEU:HD21	1.80	0.62
1:A:896:LEU:HD13	1:A:917:TRP:CZ3	2.35	0.62
1:G:896:LEU:HD13	1:G:917:TRP:CZ3	2.35	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:890:TRP:HZ3	1:J:918:ARG:HE	1.48	0.62
1:H:781:LYS:NZ	1:H:785:GLU:OE2	2.32	0.62
1:I:1013:SER:HA	1:I:1016:LYS:HB3	1.80	0.62
1:B:924:ILE:HG13	1:B:957:PHE:CD1	2.33	0.62
1:A:703:ARG:O	1:A:706:SER:OG	2.17	0.62
1:K:479:SER:OG	1:K:480:ILE:N	2.33	0.62
1:C:395:ASP:O	1:C:399:GLU:HG2	2.00	0.62
1:B:395:ASP:O	1:B:399:GLU:HG2	2.00	0.62
1:C:115:LEU:HD21	1:C:181:ARG:HD3	1.81	0.62
1:B:781:LYS:O	1:B:784:ALA:HB3	2.00	0.62
1:J:896:LEU:HD13	1:J:917:TRP:CZ3	2.35	0.62
1:I:390:LEU:HB2	1:I:421:LEU:HD21	1.80	0.62
1:A:808:MET:HG2	1:A:830:CYS:SG	2.39	0.62
1:E:1015:ILE:CG2	1:F:653:PHE:HB3	2.30	0.62
1:I:1015:ILE:CG2	1:J:653:PHE:HB3	2.28	0.62
1:K:703:ARG:O	1:K:706:SER:OG	2.17	0.62
1:B:749:GLN:HA	1:B:774:ARG:O	1.99	0.62
1:D:749:GLN:HA	1:D:774:ARG:O	1.99	0.62
1:H:117:PHE:HE2	1:H:130:LEU:HD13	1.64	0.62
1:F:117:PHE:HE2	1:F:130:LEU:HD13	1.64	0.62
1:G:390:LEU:HB2	1:G:421:LEU:HD21	1.80	0.62
1:I:808:MET:HG2	1:I:830:CYS:SG	2.39	0.62
1:F:781:LYS:O	1:F:784:ALA:HB3	2.00	0.62
1:B:337:THR:HG22	1:B:339:LEU:H	1.63	0.62
1:K:659:PHE:N	1:K:686:SER:O	2.32	0.62
1:A:826:LYS:HA	1:A:854:ASP:HB3	1.79	0.62
1:E:117:PHE:HE2	1:E:130:LEU:HD13	1.64	0.62
1:F:115:LEU:HD21	1:F:181:ARG:HD3	1.81	0.62
1:E:896:LEU:HD13	1:E:917:TRP:CZ3	2.35	0.62
1:H:781:LYS:O	1:H:784:ALA:HB3	2.00	0.62
1:A:551:VAL:HB	1:A:582:LYS:HB3	1.81	0.62
1:K:666:LEU:HG	1:K:692:LEU:HD11	1.80	0.62
1:H:267:GLU:OE1	1:H:270:ARG:NH2	2.33	0.62
1:J:337:THR:HG22	1:J:339:LEU:H	1.63	0.62
1:B:659:PHE:N	1:B:686:SER:O	2.32	0.62
1:I:611:PHE:HB3	1:I:661:THR:HG23	1.81	0.61
1:E:618:GLU:OE1	1:E:619:ARG:NH1	2.34	0.61
1:E:289:HIS:CE1	1:F:119:PRO:HA	2.34	0.61
1:A:479:SER:OG	1:A:480:ILE:N	2.33	0.61
1:H:659:PHE:N	1:H:686:SER:O	2.32	0.61
1:J:659:PHE:N	1:J:686:SER:O	2.32	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:468:SER:HA	1:K:471:ASN:HB2	1.80	0.61
1:K:1013:SER:HA	1:K:1016:LYS:HB3	1.80	0.61
1:G:399:GLU:O	1:G:403:ALA:N	2.17	0.61
1:B:115:LEU:HD21	1:B:181:ARG:HD3	1.81	0.61
1:I:115:LEU:HD21	1:I:181:ARG:HD3	1.81	0.61
1:D:551:VAL:HB	1:D:582:LYS:HB3	1.81	0.61
1:E:749:GLN:HA	1:E:774:ARG:O	1.99	0.61
1:I:659:PHE:N	1:I:686:SER:O	2.32	0.61
1:H:479:SER:OG	1:H:480:ILE:N	2.33	0.61
1:J:1013:SER:HA	1:J:1016:LYS:HB3	1.80	0.61
1:J:398:LEU:HD22	1:J:402:PHE:CE2	2.35	0.61
1:E:115:LEU:HD21	1:E:181:ARG:HD3	1.81	0.61
1:H:115:LEU:HD21	1:H:181:ARG:HD3	1.81	0.61
1:F:551:VAL:HB	1:F:582:LYS:HB3	1.81	0.61
1:A:468:SER:HA	1:A:471:ASN:HB2	1.80	0.61
1:C:468:SER:HA	1:C:471:ASN:HB2	1.80	0.61
1:C:479:SER:OG	1:C:480:ILE:N	2.33	0.61
1:F:618:GLU:OE1	1:F:619:ARG:NH1	2.33	0.61
1:G:611:PHE:HB3	1:G:661:THR:HG23	1.81	0.61
1:K:115:LEU:HD21	1:K:181:ARG:HD3	1.81	0.61
1:C:398:LEU:HD22	1:C:402:PHE:CE2	2.35	0.61
1:F:607:SER:HB3	1:F:655:TRP:CZ2	2.29	0.61
1:F:398:LEU:HD22	1:F:402:PHE:CE2	2.35	0.61
1:I:399:GLU:O	1:I:403:ALA:N	2.17	0.61
1:C:890:TRP:HZ3	1:C:918:ARG:HE	1.48	0.61
1:F:890:TRP:HZ3	1:F:918:ARG:HE	1.48	0.61
1:A:890:TRP:HZ3	1:A:918:ARG:HE	1.48	0.61
1:H:896:LEU:HD13	1:H:917:TRP:CZ3	2.35	0.61
1:H:825:MET:O	1:H:854:ASP:N	2.25	0.61
1:J:611:PHE:HB3	1:J:661:THR:HG23	1.81	0.61
1:B:468:SER:HA	1:B:471:ASN:HB2	1.80	0.61
1:E:398:LEU:HD22	1:E:402:PHE:CE2	2.35	0.61
1:G:398:LEU:HD22	1:G:402:PHE:CE2	2.35	0.61
1:G:115:LEU:HD21	1:G:181:ARG:HD3	1.81	0.61
1:J:117:PHE:HE2	1:J:130:LEU:HD13	1.64	0.61
1:I:890:TRP:HZ3	1:I:918:ARG:HE	1.48	0.61
1:I:781:LYS:O	1:I:784:ALA:HB3	2.00	0.61
1:I:781:LYS:NZ	1:I:785:GLU:OE2	2.32	0.61
1:D:1015:ILE:CG2	1:E:653:PHE:HB3	2.30	0.61
1:D:618:GLU:OE1	1:D:619:ARG:NH1	2.33	0.61
1:G:618:GLU:OE1	1:G:619:ARG:NH1	2.33	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:618:GLU:OE1	1:H:619:ARG:NH1	2.33	0.61
1:F:479:SER:OG	1:F:480:ILE:N	2.33	0.61
1:E:370:LEU:O	1:E:374:ASN:ND2	2.29	0.61
1:B:611:PHE:HB3	1:B:661:THR:HG23	1.81	0.61
1:K:398:LEU:HD22	1:K:402:PHE:CE2	2.35	0.61
1:K:395:ASP:O	1:K:399:GLU:HG2	2.00	0.61
1:B:398:LEU:HD22	1:B:402:PHE:CE2	2.35	0.61
1:I:398:LEU:HD22	1:I:402:PHE:CE2	2.35	0.61
1:K:781:LYS:O	1:K:784:ALA:HB3	2.00	0.61
1:H:551:VAL:HB	1:H:582:LYS:HB3	1.81	0.61
1:D:664:VAL:O	1:D:692:LEU:HD12	2.01	0.61
1:E:664:VAL:O	1:E:692:LEU:HD12	2.01	0.61
1:D:611:PHE:HB3	1:D:661:THR:HG23	1.81	0.61
1:B:289:HIS:CE1	1:C:119:PRO:HA	2.34	0.61
1:I:370:LEU:O	1:I:374:ASN:ND2	2.29	0.61
1:F:611:PHE:HB3	1:F:661:THR:HG23	1.81	0.61
1:I:267:GLU:OE1	1:I:270:ARG:NH2	2.33	0.61
1:J:551:VAL:HB	1:J:582:LYS:HB3	1.81	0.61
1:B:551:VAL:HB	1:B:582:LYS:HB3	1.81	0.61
1:C:618:GLU:OE1	1:C:619:ARG:NH1	2.33	0.61
1:K:618:GLU:OE1	1:K:619:ARG:NH1	2.33	0.61
1:D:115:LEU:HD21	1:D:181:ARG:HD3	1.81	0.61
1:I:551:VAL:HB	1:I:582:LYS:HB3	1.81	0.61
1:J:618:GLU:OE1	1:J:619:ARG:NH1	2.34	0.61
1:C:659:PHE:N	1:C:686:SER:O	2.32	0.61
1:I:896:LEU:HD13	1:I:917:TRP:CZ3	2.35	0.60
1:A:865:ASN:HB2	1:A:895:SER:HB3	1.84	0.60
1:K:551:VAL:HB	1:K:582:LYS:HB3	1.81	0.60
1:G:1015:ILE:CG2	1:H:653:PHE:HB3	2.29	0.60
1:B:492:LEU:HD23	1:B:561:LEU:HD23	1.83	0.60
1:C:492:LEU:HD23	1:C:561:LEU:HD23	1.83	0.60
1:B:618:GLU:OE1	1:B:619:ARG:NH1	2.33	0.60
1:D:607:SER:HB3	1:D:655:TRP:CZ2	2.29	0.60
1:G:607:SER:HB3	1:G:655:TRP:CZ2	2.29	0.60
1:I:117:PHE:HE2	1:I:130:LEU:HD13	1.64	0.60
1:K:865:ASN:HB2	1:K:895:SER:HB3	1.83	0.60
1:J:664:VAL:O	1:J:692:LEU:HD12	2.01	0.60
1:C:664:VAL:O	1:C:692:LEU:HD12	2.01	0.60
1:J:492:LEU:HD23	1:J:561:LEU:HD23	1.83	0.60
1:H:664:VAL:O	1:H:692:LEU:HD12	2.01	0.60
1:A:492:LEU:HD23	1:A:561:LEU:HD23	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:492:LEU:HD23	1:K:561:LEU:HD23	1.83	0.60
1:F:825:MET:O	1:F:854:ASP:N	2.25	0.60
1:C:749:GLN:N	1:C:749:GLN:OE1	2.34	0.60
1:B:267:GLU:OE1	1:B:270:ARG:NH2	2.33	0.60
1:K:607:SER:HB3	1:K:655:TRP:CZ2	2.29	0.60
1:B:865:ASN:HB2	1:B:895:SER:HB3	1.84	0.60
1:I:492:LEU:HD23	1:I:561:LEU:HD23	1.83	0.60
1:F:664:VAL:O	1:F:692:LEU:HD12	2.01	0.60
1:D:492:LEU:HD23	1:D:561:LEU:HD23	1.83	0.60
1:B:406:PHE:CZ	1:B:445:SER:HA	2.37	0.60
1:K:267:GLU:OE1	1:K:270:ARG:NH2	2.33	0.60
1:K:611:PHE:HB3	1:K:661:THR:HG23	1.81	0.60
1:J:865:ASN:HB2	1:J:895:SER:HB3	1.83	0.60
1:J:535:GLN:HB2	1:J:613:LYS:HE2	1.84	0.60
1:K:406:PHE:CZ	1:K:445:SER:HA	2.37	0.60
1:A:749:GLN:OE1	1:A:749:GLN:N	2.34	0.60
1:I:618:GLU:OE1	1:I:619:ARG:NH1	2.33	0.60
1:A:618:GLU:OE1	1:A:619:ARG:NH1	2.34	0.60
1:H:398:LEU:HD22	1:H:402:PHE:CE2	2.35	0.60
1:D:420:VAL:O	1:D:423:THR:OG1	2.09	0.60
1:J:781:LYS:NZ	1:J:785:GLU:OE2	2.32	0.60
1:A:535:GLN:HB2	1:A:613:LYS:HE2	1.84	0.60
1:I:406:PHE:CZ	1:I:445:SER:HA	2.37	0.60
1:I:489:ASN:O	1:I:492:LEU:HB2	2.02	0.60
1:G:825:MET:O	1:G:854:ASP:N	2.25	0.60
1:F:749:GLN:N	1:F:749:GLN:OE1	2.34	0.60
1:F:703:ARG:O	1:F:706:SER:OG	2.17	0.60
1:H:865:ASN:HB2	1:H:895:SER:HB3	1.83	0.60
1:B:664:VAL:O	1:B:692:LEU:HD12	2.01	0.60
1:H:489:ASN:O	1:H:492:LEU:HB2	2.02	0.60
1:J:267:GLU:OE1	1:J:270:ARG:NH2	2.33	0.60
1:D:398:LEU:HD22	1:D:402:PHE:CE2	2.35	0.60
1:B:117:PHE:CE2	1:B:130:LEU:HD13	2.37	0.60
1:C:865:ASN:HB2	1:C:895:SER:HB3	1.84	0.60
1:I:865:ASN:HB2	1:I:895:SER:HB3	1.84	0.60
1:B:535:GLN:HB2	1:B:613:LYS:HE2	1.84	0.60
1:G:941:GLN:HA	1:G:969:PHE:O	2.02	0.60
1:H:406:PHE:CZ	1:H:445:SER:HA	2.37	0.60
1:H:492:LEU:HD23	1:H:561:LEU:HD23	1.83	0.60
1:K:489:ASN:O	1:K:492:LEU:HB2	2.02	0.60
1:J:749:GLN:OE1	1:J:749:GLN:N	2.34	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:117:PHE:CE2	1:A:130:LEU:HD13	2.37	0.60
1:G:865:ASN:HB2	1:G:895:SER:HB3	1.83	0.60
1:G:890:TRP:HZ3	1:G:918:ARG:HE	1.48	0.60
1:H:890:TRP:HZ3	1:H:918:ARG:HE	1.48	0.60
1:C:535:GLN:HB2	1:C:613:LYS:HE2	1.84	0.60
1:A:489:ASN:O	1:A:492:LEU:HB2	2.02	0.60
1:E:406:PHE:CZ	1:E:445:SER:HA	2.37	0.60
1:E:492:LEU:HD23	1:E:561:LEU:HD23	1.83	0.60
1:G:703:ARG:O	1:G:706:SER:OG	2.17	0.60
1:A:398:LEU:HD22	1:A:402:PHE:CE2	2.35	0.60
1:F:117:PHE:CE2	1:F:130:LEU:HD13	2.37	0.60
1:D:961:PHE:HD2	1:D:990:VAL:HG11	1.67	0.60
1:K:535:GLN:HB2	1:K:613:LYS:HE2	1.84	0.60
1:I:535:GLN:HB2	1:I:613:LYS:HE2	1.84	0.60
1:I:941:GLN:HA	1:I:969:PHE:O	2.02	0.60
1:G:479:SER:OG	1:G:480:ILE:N	2.33	0.60
1:C:267:GLU:OE1	1:C:270:ARG:NH2	2.33	0.60
1:E:703:ARG:O	1:E:706:SER:OG	2.17	0.60
1:E:117:PHE:CE2	1:E:130:LEU:HD13	2.37	0.60
1:D:865:ASN:HB2	1:D:895:SER:HB3	1.84	0.60
1:E:865:ASN:HB2	1:E:895:SER:HB3	1.83	0.60
1:F:865:ASN:HB2	1:F:895:SER:HB3	1.83	0.60
1:J:489:ASN:O	1:J:492:LEU:HB2	2.02	0.60
1:A:406:PHE:CZ	1:A:445:SER:HA	2.37	0.60
1:B:941:GLN:HA	1:B:969:PHE:O	2.02	0.60
1:F:406:PHE:CZ	1:F:445:SER:HA	2.37	0.60
1:F:941:GLN:HA	1:F:969:PHE:O	2.02	0.60
1:D:729:GLU:HB2	1:D:755:LEU:HB2	1.84	0.60
1:A:991:LEU:HD11	1:A:1018:THR:H	1.67	0.60
1:H:607:SER:HB3	1:H:655:TRP:CZ2	2.29	0.59
1:B:890:TRP:HZ3	1:B:918:ARG:HE	1.48	0.59
1:H:535:GLN:HB2	1:H:613:LYS:HE2	1.84	0.59
1:G:492:LEU:HD23	1:G:561:LEU:HD23	1.83	0.59
1:F:489:ASN:O	1:F:492:LEU:HB2	2.02	0.59
1:C:489:ASN:O	1:C:492:LEU:HB2	2.02	0.59
1:J:941:GLN:HA	1:J:969:PHE:O	2.02	0.59
1:C:906:THR:HA	1:C:909:LEU:HD22	1.84	0.59
1:C:729:GLU:HB2	1:C:755:LEU:HB2	1.84	0.59
1:H:729:GLU:HB2	1:H:755:LEU:HB2	1.84	0.59
1:E:729:GLU:HB2	1:E:755:LEU:HB2	1.84	0.59
1:H:433:GLN:HG2	1:I:125:ASP:N	2.13	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:607:SER:HB3	1:J:655:TRP:CZ2	2.29	0.59
1:F:893:HIS:ND1	1:F:918:ARG:O	2.35	0.59
1:G:893:HIS:ND1	1:G:918:ARG:O	2.35	0.59
1:K:664:VAL:O	1:K:692:LEU:HD12	2.01	0.59
1:J:406:PHE:CZ	1:J:445:SER:HA	2.37	0.59
1:G:489:ASN:O	1:G:492:LEU:HB2	2.02	0.59
1:E:691:ARG:HG2	1:E:716:THR:HB	1.85	0.59
1:F:691:ARG:HG2	1:F:716:THR:HB	1.85	0.59
1:D:406:PHE:CZ	1:D:445:SER:HA	2.37	0.59
1:A:941:GLN:HA	1:A:969:PHE:O	2.02	0.59
1:H:941:GLN:HA	1:H:969:PHE:O	2.02	0.59
1:C:941:GLN:HA	1:C:969:PHE:O	2.02	0.59
1:D:906:THR:HA	1:D:909:LEU:HD22	1.84	0.59
1:D:267:GLU:OE1	1:D:270:ARG:NH2	2.33	0.59
1:J:991:LEU:HD11	1:J:1018:THR:H	1.67	0.59
1:G:117:PHE:CE2	1:G:130:LEU:HD13	2.37	0.59
1:D:117:PHE:CE2	1:D:130:LEU:HD13	2.37	0.59
1:G:429:LYS:HE3	1:G:435:LEU:HD21	1.84	0.59
1:B:961:PHE:HD2	1:B:990:VAL:HG11	1.67	0.59
1:A:664:VAL:O	1:A:692:LEU:HD12	2.01	0.59
1:I:691:ARG:HG2	1:I:716:THR:HB	1.85	0.59
1:I:664:VAL:O	1:I:692:LEU:HD12	2.01	0.59
1:H:691:ARG:HG2	1:H:716:THR:HB	1.85	0.59
1:C:406:PHE:CZ	1:C:445:SER:HA	2.37	0.59
1:F:729:GLU:HB2	1:F:755:LEU:HB2	1.84	0.59
1:C:991:LEU:HD11	1:C:1018:THR:H	1.68	0.59
1:E:479:SER:OG	1:E:480:ILE:N	2.33	0.59
1:A:267:GLU:OE1	1:A:270:ARG:NH2	2.33	0.59
1:G:729:GLU:HB2	1:G:755:LEU:HB2	1.84	0.59
1:E:893:HIS:ND1	1:E:918:ARG:O	2.35	0.59
1:B:893:HIS:ND1	1:B:918:ARG:O	2.35	0.59
1:I:893:HIS:ND1	1:I:918:ARG:O	2.35	0.59
1:H:893:HIS:ND1	1:H:918:ARG:O	2.35	0.59
1:H:1015:ILE:CG2	1:I:653:PHE:HB3	2.32	0.59
1:D:535:GLN:HB2	1:D:613:LYS:HE2	1.84	0.59
1:D:691:ARG:HG2	1:D:716:THR:HB	1.84	0.59
1:G:749:GLN:OE1	1:G:749:GLN:N	2.34	0.59
1:E:749:GLN:N	1:E:749:GLN:OE1	2.34	0.59
1:F:991:LEU:HD11	1:F:1018:THR:H	1.67	0.59
1:B:906:THR:HA	1:B:909:LEU:HD22	1.84	0.59
1:I:729:GLU:HB2	1:I:755:LEU:HB2	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:607:SER:HB3	1:I:655:TRP:CZ2	2.29	0.59
1:H:370:LEU:O	1:H:374:ASN:ND2	2.29	0.59
1:G:664:VAL:O	1:G:692:LEU:HD12	2.01	0.59
1:E:535:GLN:HB2	1:E:613:LYS:HE2	1.84	0.59
1:J:825:MET:O	1:J:854:ASP:N	2.25	0.59
1:H:117:PHE:CE2	1:H:130:LEU:HD13	2.37	0.59
1:C:117:PHE:CE2	1:C:130:LEU:HD13	2.37	0.59
1:J:893:HIS:ND1	1:J:918:ARG:O	2.35	0.59
1:K:781:LYS:NZ	1:K:785:GLU:OE2	2.32	0.59
1:B:1015:ILE:CG2	1:C:653:PHE:HB3	2.31	0.59
1:J:729:GLU:HB2	1:J:755:LEU:HB2	1.84	0.59
1:D:325:ILE:HB	1:D:332:ARG:HA	1.85	0.59
1:E:325:ILE:HB	1:E:332:ARG:HA	1.85	0.59
1:E:906:THR:HA	1:E:909:LEU:HD22	1.84	0.59
1:B:729:GLU:HB2	1:B:755:LEU:HB2	1.84	0.59
1:H:703:ARG:O	1:H:706:SER:OG	2.17	0.59
1:D:659:PHE:N	1:D:686:SER:O	2.32	0.59
1:H:991:LEU:HD11	1:H:1018:THR:H	1.67	0.59
1:D:893:HIS:ND1	1:D:918:ARG:O	2.35	0.59
1:D:370:LEU:O	1:D:374:ASN:ND2	2.29	0.59
1:E:429:LYS:HE3	1:E:435:LEU:HD21	1.84	0.59
1:A:429:LYS:HE3	1:A:435:LEU:HD21	1.84	0.59
1:B:429:LYS:HE3	1:B:435:LEU:HD21	1.84	0.59
1:C:691:ARG:HG2	1:C:716:THR:HB	1.84	0.59
1:G:691:ARG:HG2	1:G:716:THR:HB	1.85	0.59
1:A:729:GLU:HB2	1:A:755:LEU:HB2	1.84	0.59
1:A:893:HIS:ND1	1:A:918:ARG:O	2.35	0.59
1:K:893:HIS:ND1	1:K:918:ARG:O	2.35	0.59
1:K:429:LYS:HE3	1:K:435:LEU:HD21	1.84	0.59
1:H:961:PHE:HD2	1:H:990:VAL:HG11	1.67	0.59
1:J:691:ARG:HG2	1:J:716:THR:HB	1.85	0.59
1:G:406:PHE:CZ	1:G:445:SER:HA	2.37	0.59
1:F:535:GLN:HB2	1:F:613:LYS:HE2	1.84	0.59
1:D:489:ASN:O	1:D:492:LEU:HB2	2.02	0.59
1:E:991:LEU:HD11	1:E:1018:THR:H	1.67	0.59
1:H:214:GLU:O	1:H:218:ASP:N	2.31	0.59
1:D:144:HIS:HB3	1:E:128:PHE:CE1	2.38	0.59
1:C:893:HIS:ND1	1:C:918:ARG:O	2.35	0.59
1:E:409:GLU:HG2	1:E:410:PRO:HD2	1.85	0.59
1:F:961:PHE:HD2	1:F:990:VAL:HG11	1.67	0.59
1:B:691:ARG:HG2	1:B:716:THR:HB	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:492:LEU:HD23	1:F:561:LEU:HD23	1.83	0.59
1:E:267:GLU:OE1	1:E:270:ARG:NH2	2.33	0.59
1:K:729:GLU:HB2	1:K:755:LEU:HB2	1.84	0.59
1:J:117:PHE:CE2	1:J:130:LEU:HD13	2.37	0.59
1:I:117:PHE:CE2	1:I:130:LEU:HD13	2.37	0.59
1:F:429:LYS:HE3	1:F:435:LEU:HD21	1.84	0.59
1:G:535:GLN:HB2	1:G:613:LYS:HE2	1.84	0.59
1:F:325:ILE:HB	1:F:332:ARG:HA	1.84	0.59
1:F:906:THR:HA	1:F:909:LEU:HD22	1.84	0.59
1:A:906:THR:HA	1:A:909:LEU:HD22	1.84	0.59
1:K:117:PHE:CE2	1:K:130:LEU:HD13	2.37	0.58
1:E:180:GLN:OE1	1:E:180:GLN:N	2.36	0.58
1:G:409:GLU:HG2	1:G:410:PRO:HD2	1.85	0.58
1:A:961:PHE:HD2	1:A:990:VAL:HG11	1.67	0.58
1:A:691:ARG:HG2	1:A:716:THR:HB	1.84	0.58
1:B:489:ASN:O	1:B:492:LEU:HB2	2.02	0.58
1:E:941:GLN:HA	1:E:969:PHE:O	2.02	0.58
1:K:749:GLN:N	1:K:749:GLN:OE1	2.34	0.58
1:K:825:MET:O	1:K:854:ASP:N	2.25	0.58
1:G:991:LEU:HD11	1:G:1018:THR:H	1.67	0.58
1:G:325:ILE:HB	1:G:332:ARG:HA	1.85	0.58
1:I:233:LYS:HE2	1:I:237:LEU:HD11	1.85	0.58
1:C:607:SER:HB3	1:C:655:TRP:CZ2	2.29	0.58
1:J:180:GLN:OE1	1:J:180:GLN:N	2.36	0.58
1:H:429:LYS:HE3	1:H:435:LEU:HD21	1.84	0.58
1:J:429:LYS:HE3	1:J:435:LEU:HD21	1.84	0.58
1:E:961:PHE:HD2	1:E:990:VAL:HG11	1.67	0.58
1:K:691:ARG:HG2	1:K:716:THR:HB	1.84	0.58
1:K:941:GLN:HA	1:K:969:PHE:O	2.02	0.58
1:E:122:GLU:HA	1:E:123:ASP:HB3	1.85	0.58
1:H:906:THR:HA	1:H:909:LEU:HD22	1.84	0.58
1:J:524:THR:OG1	1:J:530:ARG:NH1	2.28	0.58
1:G:961:PHE:HD2	1:G:990:VAL:HG11	1.67	0.58
1:H:233:LYS:HE2	1:H:237:LEU:HD11	1.85	0.58
1:K:991:LEU:HD11	1:K:1018:THR:H	1.67	0.58
1:K:180:GLN:OE1	1:K:180:GLN:N	2.36	0.58
1:H:180:GLN:N	1:H:180:GLN:OE1	2.36	0.58
1:F:180:GLN:OE1	1:F:180:GLN:N	2.36	0.58
1:D:916:ASN:N	1:D:945:ALA:HB3	2.15	0.58
1:I:180:GLN:OE1	1:I:180:GLN:N	2.36	0.58
1:E:916:ASN:N	1:E:945:ALA:HB3	2.15	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:489:ASN:O	1:E:492:LEU:HB2	2.02	0.58
1:A:825:MET:O	1:A:854:ASP:N	2.25	0.58
1:I:906:THR:HA	1:I:909:LEU:HD22	1.84	0.58
1:K:906:THR:HA	1:K:909:LEU:HD22	1.84	0.58
1:C:325:ILE:HB	1:C:332:ARG:HA	1.85	0.58
1:K:961:PHE:HD2	1:K:990:VAL:HG11	1.67	0.58
1:G:180:GLN:OE1	1:G:180:GLN:N	2.36	0.58
1:D:180:GLN:OE1	1:D:180:GLN:N	2.36	0.58
1:I:429:LYS:HE3	1:I:435:LEU:HD21	1.84	0.58
1:D:941:GLN:HA	1:D:969:PHE:O	2.02	0.58
1:J:325:ILE:HB	1:J:332:ARG:HA	1.85	0.58
1:H:325:ILE:HB	1:H:332:ARG:HA	1.84	0.58
1:J:906:THR:HA	1:J:909:LEU:HD22	1.84	0.58
1:A:781:LYS:NZ	1:A:785:GLU:OE2	2.32	0.58
1:C:429:LYS:HE3	1:C:435:LEU:HD21	1.84	0.58
1:C:961:PHE:HD2	1:C:990:VAL:HG11	1.67	0.58
1:F:122:GLU:HA	1:F:123:ASP:HB3	1.85	0.58
1:D:122:GLU:HA	1:D:123:ASP:HB3	1.85	0.58
1:G:906:THR:HA	1:G:909:LEU:HD22	1.84	0.58
1:A:180:GLN:OE1	1:A:180:GLN:N	2.36	0.58
1:C:916:ASN:N	1:C:945:ALA:HB3	2.15	0.58
1:G:859:TYR:HD1	1:G:889:CYS:HA	1.69	0.58
1:I:961:PHE:HD2	1:I:990:VAL:HG11	1.67	0.58
1:I:991:LEU:HD11	1:I:1018:THR:H	1.67	0.58
1:B:420:VAL:O	1:B:423:THR:OG1	2.09	0.58
1:B:991:LEU:HD11	1:B:1018:THR:H	1.67	0.58
1:C:409:GLU:HG2	1:C:410:PRO:HD2	1.85	0.58
1:H:749:GLN:OE1	1:H:749:GLN:N	2.34	0.58
1:B:749:GLN:OE1	1:B:749:GLN:N	2.34	0.58
1:D:991:LEU:HD11	1:D:1018:THR:H	1.67	0.58
1:G:144:HIS:HB3	1:H:128:PHE:CE1	2.39	0.58
1:E:859:TYR:HD1	1:E:889:CYS:HA	1.69	0.58
1:F:859:TYR:HD1	1:F:889:CYS:HA	1.69	0.58
1:A:892:VAL:O	1:A:895:SER:OG	2.15	0.58
1:D:961:PHE:CD2	1:D:990:VAL:HG11	2.39	0.58
1:E:961:PHE:CD2	1:E:990:VAL:HG11	2.39	0.58
1:J:961:PHE:HD2	1:J:990:VAL:HG11	1.67	0.58
1:G:916:ASN:N	1:G:945:ALA:HB3	2.15	0.58
1:H:859:TYR:HD1	1:H:889:CYS:HA	1.69	0.58
1:D:429:LYS:HE3	1:D:435:LEU:HD21	1.84	0.58
1:G:233:LYS:HE2	1:G:237:LEU:HD11	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:180:GLN:OE1	1:C:180:GLN:N	2.36	0.57
1:H:409:GLU:HG2	1:H:410:PRO:HD2	1.85	0.57
1:K:409:GLU:HG2	1:K:410:PRO:HD2	1.85	0.57
1:C:122:GLU:HA	1:C:123:ASP:HB3	1.85	0.57
1:J:233:LYS:HE2	1:J:237:LEU:HD11	1.85	0.57
1:K:325:ILE:HB	1:K:332:ARG:HA	1.85	0.57
1:E:524:THR:OG1	1:E:530:ARG:NH1	2.28	0.57
1:A:325:ILE:HB	1:A:332:ARG:HA	1.85	0.57
1:J:122:GLU:HA	1:J:123:ASP:HB3	1.85	0.57
1:B:916:ASN:N	1:B:945:ALA:HB3	2.15	0.57
1:C:859:TYR:HD1	1:C:889:CYS:HA	1.69	0.57
1:B:781:LYS:NZ	1:B:785:GLU:OE2	2.32	0.57
1:D:409:GLU:HG2	1:D:410:PRO:HD2	1.85	0.57
1:D:749:GLN:N	1:D:749:GLN:OE1	2.34	0.57
1:I:214:GLU:O	1:I:218:ASP:N	2.31	0.57
1:I:122:GLU:HA	1:I:123:ASP:HB3	1.85	0.57
1:K:402:PHE:HA	1:K:487:TYR:CE1	2.40	0.57
1:F:402:PHE:HA	1:F:487:TYR:CE1	2.40	0.57
1:C:420:VAL:O	1:C:423:THR:OG1	2.09	0.57
1:G:122:GLU:HA	1:G:123:ASP:HB3	1.85	0.57
1:C:961:PHE:CD2	1:C:990:VAL:HG11	2.39	0.57
1:D:233:LYS:HE2	1:D:237:LEU:HD11	1.85	0.57
1:B:325:ILE:HB	1:B:332:ARG:HA	1.85	0.57
1:B:402:PHE:HA	1:B:487:TYR:CE1	2.40	0.57
1:B:180:GLN:N	1:B:180:GLN:OE1	2.37	0.57
1:I:402:PHE:HA	1:I:487:TYR:CE1	2.40	0.57
1:I:859:TYR:HD1	1:I:889:CYS:HA	1.69	0.57
1:I:409:GLU:HG2	1:I:410:PRO:HD2	1.85	0.57
1:F:409:GLU:HG2	1:F:410:PRO:HD2	1.85	0.57
1:A:409:GLU:HG2	1:A:410:PRO:HD2	1.85	0.57
1:F:961:PHE:CD2	1:F:990:VAL:HG11	2.39	0.57
1:A:961:PHE:CD2	1:A:990:VAL:HG11	2.39	0.57
1:F:1011:ASP:OD2	1:G:679:TYR:CE1	2.56	0.57
1:I:325:ILE:HB	1:I:332:ARG:HA	1.84	0.57
1:C:402:PHE:HA	1:C:487:TYR:CE1	2.40	0.57
1:A:402:PHE:HA	1:A:487:TYR:CE1	2.40	0.57
1:E:402:PHE:HA	1:E:487:TYR:CE1	2.40	0.57
1:H:402:PHE:HA	1:H:487:TYR:CE1	2.40	0.57
1:B:859:TYR:HD1	1:B:889:CYS:HA	1.69	0.57
1:K:122:GLU:HA	1:K:123:ASP:HB3	1.85	0.57
1:E:233:LYS:HE2	1:E:237:LEU:HD11	1.85	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:144:HIS:HB3	1:G:128:PHE:CE1	2.39	0.57
1:J:916:ASN:N	1:J:945:ALA:HB3	2.15	0.57
1:C:781:LYS:NZ	1:C:785:GLU:OE2	2.32	0.57
1:G:781:LYS:NZ	1:G:785:GLU:OE2	2.32	0.57
1:I:961:PHE:CD2	1:I:990:VAL:HG11	2.39	0.57
1:I:479:SER:OG	1:I:480:ILE:N	2.33	0.57
1:A:233:LYS:HE2	1:A:237:LEU:HD11	1.85	0.57
1:F:524:THR:OG1	1:F:530:ARG:NH1	2.28	0.57
1:E:921:ASP:HA	1:E:949:VAL:HG22	1.87	0.57
1:C:233:LYS:HE2	1:C:237:LEU:HD11	1.85	0.57
1:F:921:ASP:HA	1:F:949:VAL:HG22	1.87	0.57
1:F:916:ASN:N	1:F:945:ALA:HB3	2.15	0.57
1:H:865:ASN:HB3	1:H:892:VAL:HA	1.86	0.57
1:J:409:GLU:HG2	1:J:410:PRO:HD2	1.85	0.57
1:F:233:LYS:HE2	1:F:237:LEU:HD11	1.85	0.57
1:I:985:ARG:O	1:I:988:SER:OG	2.19	0.57
1:I:144:HIS:HB3	1:J:128:PHE:CE1	2.40	0.57
1:I:1011:ASP:OD2	1:J:679:TYR:CE1	2.57	0.57
1:A:1011:ASP:OD2	1:B:679:TYR:CE1	2.57	0.57
1:I:865:ASN:HB3	1:I:892:VAL:HA	1.86	0.57
1:G:865:ASN:HB3	1:G:892:VAL:HA	1.86	0.57
1:J:859:TYR:HD1	1:J:889:CYS:HA	1.69	0.57
1:C:370:LEU:O	1:C:374:ASN:ND2	2.29	0.57
1:K:865:ASN:HB3	1:K:892:VAL:HA	1.86	0.57
1:B:122:GLU:HA	1:B:123:ASP:HB3	1.85	0.57
1:K:233:LYS:HE2	1:K:237:LEU:HD11	1.85	0.57
1:B:233:LYS:HE2	1:B:237:LEU:HD11	1.85	0.57
1:H:524:THR:OG1	1:H:530:ARG:NH1	2.28	0.57
1:D:859:TYR:HD1	1:D:889:CYS:HA	1.69	0.57
1:D:1011:ASP:OD2	1:E:679:TYR:CE1	2.57	0.57
1:D:974:THR:HG21	1:D:977:PHE:HD1	1.70	0.57
1:A:524:THR:OG1	1:A:530:ARG:NH1	2.28	0.57
1:A:144:HIS:HB3	1:B:128:PHE:CE1	2.40	0.56
1:G:370:LEU:O	1:G:374:ASN:ND2	2.29	0.56
1:J:865:ASN:HB3	1:J:892:VAL:HA	1.86	0.56
1:B:409:GLU:HG2	1:B:410:PRO:HD2	1.85	0.56
1:B:961:PHE:CD2	1:B:990:VAL:HG11	2.39	0.56
1:G:921:ASP:HA	1:G:949:VAL:HG22	1.87	0.56
1:H:122:GLU:HA	1:H:123:ASP:HB3	1.85	0.56
1:D:921:ASP:HA	1:D:949:VAL:HG22	1.87	0.56
1:C:921:ASP:HA	1:C:949:VAL:HG22	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:524:THR:OG1	1:G:530:ARG:NH1	2.28	0.56
1:D:402:PHE:HA	1:D:487:TYR:CE1	2.40	0.56
1:C:144:HIS:HB3	1:D:128:PHE:CE1	2.40	0.56
1:A:916:ASN:N	1:A:945:ALA:HB3	2.15	0.56
1:A:865:ASN:HB3	1:A:892:VAL:HA	1.86	0.56
1:E:781:LYS:NZ	1:E:785:GLU:OE2	2.32	0.56
1:E:787:LEU:HD23	1:E:790:LEU:HD12	1.87	0.56
1:A:122:GLU:HA	1:A:123:ASP:HB3	1.85	0.56
1:G:961:PHE:CD2	1:G:990:VAL:HG11	2.39	0.56
1:J:214:GLU:O	1:J:218:ASP:N	2.31	0.56
1:C:433:GLN:HG2	1:D:125:ASP:N	2.12	0.56
1:J:402:PHE:HA	1:J:487:TYR:CE1	2.40	0.56
1:G:402:PHE:HA	1:G:487:TYR:CE1	2.40	0.56
1:H:130:LEU:HD22	1:H:177:THR:OG1	2.06	0.56
1:C:865:ASN:HB3	1:C:892:VAL:HA	1.86	0.56
1:E:865:ASN:HB3	1:E:892:VAL:HA	1.86	0.56
1:I:869:GLN:HG3	1:I:898:LYS:HD3	1.88	0.56
1:K:859:TYR:HD1	1:K:889:CYS:HA	1.69	0.56
1:D:781:LYS:NZ	1:D:785:GLU:OE2	2.32	0.56
1:F:534:ILE:HD11	1:F:716:THR:HG22	1.88	0.56
1:I:749:GLN:OE1	1:I:749:GLN:N	2.34	0.56
1:J:961:PHE:CD2	1:J:990:VAL:HG11	2.39	0.56
1:C:974:THR:HG21	1:C:977:PHE:HD1	1.70	0.56
1:E:165:CYS:HB2	1:E:277:VAL:H	1.71	0.56
1:K:921:ASP:HA	1:K:949:VAL:HG22	1.87	0.56
1:E:456:SER:HB3	1:E:497:SER:HB3	1.87	0.56
1:A:433:GLN:HG2	1:B:125:ASP:N	2.12	0.56
1:F:130:LEU:HD22	1:F:177:THR:OG1	2.06	0.56
1:D:865:ASN:HB3	1:D:892:VAL:HA	1.86	0.56
1:A:859:TYR:HD1	1:A:889:CYS:HA	1.69	0.56
1:J:787:LEU:HD23	1:J:790:LEU:HD12	1.87	0.56
1:G:1011:ASP:OD2	1:H:679:TYR:CE1	2.58	0.56
1:K:961:PHE:CD2	1:K:990:VAL:HG11	2.39	0.56
1:B:974:THR:HG21	1:B:977:PHE:HD1	1.70	0.56
1:G:165:CYS:HB2	1:G:277:VAL:H	1.71	0.56
1:F:865:ASN:HB3	1:F:892:VAL:HA	1.86	0.56
1:G:869:GLN:HG3	1:G:898:LYS:HD3	1.88	0.56
1:D:787:LEU:HD23	1:D:790:LEU:HD12	1.87	0.56
1:F:787:LEU:HD23	1:F:790:LEU:HD12	1.87	0.56
1:I:165:CYS:HB2	1:I:277:VAL:H	1.71	0.56
1:F:456:SER:HB3	1:F:497:SER:HB3	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:165:CYS:HB2	1:F:277:VAL:H	1.71	0.56
1:D:433:GLN:HG2	1:E:125:ASP:N	2.13	0.56
1:B:607:SER:HB3	1:B:655:TRP:CZ2	2.29	0.56
1:A:787:LEU:HD23	1:A:790:LEU:HD12	1.87	0.56
1:G:787:LEU:HD23	1:G:790:LEU:HD12	1.87	0.56
1:H:961:PHE:CD2	1:H:990:VAL:HG11	2.39	0.56
1:F:974:THR:HG21	1:F:977:PHE:HD1	1.70	0.56
1:K:128:PHE:CE1	1:J:144:HIS:HB3	2.41	0.56
1:G:433:GLN:HG2	1:H:125:ASP:N	2.12	0.56
1:H:395:ASP:HA	1:H:398:LEU:HB2	1.88	0.56
1:B:144:HIS:HB3	1:C:128:PHE:CE1	2.41	0.56
1:B:865:ASN:HB3	1:B:892:VAL:HA	1.86	0.56
1:B:921:ASP:HA	1:B:949:VAL:HG22	1.87	0.56
1:K:214:GLU:O	1:K:218:ASP:N	2.31	0.56
1:K:130:LEU:HD22	1:K:177:THR:OG1	2.06	0.56
1:J:395:ASP:HA	1:J:398:LEU:HB2	1.88	0.56
1:F:395:ASP:HA	1:F:398:LEU:HB2	1.88	0.56
1:E:130:LEU:HD22	1:E:177:THR:OG1	2.06	0.56
1:C:422:VAL:HG22	1:C:427:LEU:O	2.06	0.56
1:J:182:ILE:O	1:J:185:LEU:HB2	2.06	0.56
1:H:182:ILE:O	1:H:185:LEU:HB2	2.06	0.56
1:H:534:ILE:HD11	1:H:716:THR:HG22	1.88	0.56
1:H:357:HIS:HE1	1:H:564:GLU:HA	1.71	0.56
1:E:974:THR:HG21	1:E:977:PHE:HD1	1.70	0.56
1:H:921:ASP:HA	1:H:949:VAL:HG22	1.87	0.56
1:D:456:SER:HB3	1:D:497:SER:HB3	1.88	0.56
1:B:433:GLN:HG2	1:C:125:ASP:N	2.14	0.56
1:J:130:LEU:HD22	1:J:177:THR:OG1	2.06	0.56
1:K:869:GLN:HG3	1:K:898:LYS:HD3	1.88	0.56
1:F:182:ILE:O	1:F:185:LEU:HB2	2.06	0.56
1:E:448:GLU:OE1	1:E:493:TYR:OH	2.17	0.56
1:J:357:HIS:HE1	1:J:564:GLU:HA	1.71	0.56
1:E:433:GLN:HG2	1:F:125:ASP:N	2.13	0.56
1:E:395:ASP:HA	1:E:398:LEU:HB2	1.88	0.56
1:G:395:ASP:HA	1:G:398:LEU:HB2	1.88	0.56
1:I:130:LEU:HD22	1:I:177:THR:OG1	2.06	0.56
1:K:916:ASN:N	1:K:945:ALA:HB3	2.15	0.56
1:J:869:GLN:HG3	1:J:898:LYS:HD3	1.88	0.56
1:H:422:VAL:HG22	1:H:427:LEU:O	2.06	0.56
1:C:787:LEU:HD23	1:C:790:LEU:HD12	1.87	0.56
1:D:422:VAL:HG22	1:D:427:LEU:O	2.06	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:422:VAL:HG22	1:B:427:LEU:O	2.06	0.56
1:I:534:ILE:HD11	1:I:716:THR:HG22	1.88	0.56
1:J:560:ASN:O	1:J:563:SER:OG	2.19	0.56
1:H:165:CYS:HB2	1:H:277:VAL:H	1.71	0.56
1:D:395:ASP:HA	1:D:398:LEU:HB2	1.88	0.55
1:A:869:GLN:HG3	1:A:898:LYS:HD3	1.88	0.55
1:H:787:LEU:HD23	1:H:790:LEU:HD12	1.87	0.55
1:A:974:THR:HG21	1:A:977:PHE:HD1	1.70	0.55
1:A:395:ASP:HA	1:A:398:LEU:HB2	1.88	0.55
1:I:395:ASP:HA	1:I:398:LEU:HB2	1.88	0.55
1:E:357:HIS:HE1	1:E:564:GLU:HA	1.71	0.55
1:D:357:HIS:HE1	1:D:564:GLU:HA	1.71	0.55
1:I:921:ASP:HA	1:I:949:VAL:HG22	1.87	0.55
1:G:456:SER:HB3	1:G:497:SER:HB3	1.88	0.55
1:C:456:SER:HB3	1:C:497:SER:HB3	1.88	0.55
1:A:214:GLU:O	1:A:218:ASP:N	2.31	0.55
1:D:130:LEU:HD22	1:D:177:THR:OG1	2.06	0.55
1:E:869:GLN:HG3	1:E:898:LYS:HD3	1.88	0.55
1:H:916:ASN:N	1:H:945:ALA:HB3	2.15	0.55
1:E:422:VAL:HG22	1:E:427:LEU:O	2.06	0.55
1:A:422:VAL:HG22	1:A:427:LEU:O	2.06	0.55
1:I:182:ILE:O	1:I:185:LEU:HB2	2.06	0.55
1:G:974:THR:HG21	1:G:977:PHE:HD1	1.70	0.55
1:K:395:ASP:HA	1:K:398:LEU:HB2	1.88	0.55
1:C:892:VAL:O	1:C:895:SER:OG	2.15	0.55
1:D:534:ILE:HD11	1:D:716:THR:HG22	1.88	0.55
1:A:357:HIS:HE1	1:A:564:GLU:HA	1.71	0.55
1:J:165:CYS:HB2	1:J:277:VAL:H	1.71	0.55
1:J:921:ASP:HA	1:J:949:VAL:HG22	1.87	0.55
1:A:130:LEU:HD22	1:A:177:THR:OG1	2.06	0.55
1:I:916:ASN:N	1:I:945:ALA:HB3	2.15	0.55
1:K:422:VAL:HG22	1:K:427:LEU:O	2.06	0.55
1:A:182:ILE:O	1:A:185:LEU:HB2	2.06	0.55
1:G:182:ILE:O	1:G:185:LEU:HB2	2.06	0.55
1:C:1011:ASP:OD2	1:D:679:TYR:CE1	2.57	0.55
1:F:882:THR:O	1:F:910:ALA:N	2.40	0.55
1:D:882:THR:O	1:D:910:ALA:N	2.40	0.55
1:E:882:THR:O	1:E:910:ALA:N	2.40	0.55
1:I:974:THR:HG21	1:I:977:PHE:HD1	1.70	0.55
1:B:395:ASP:HA	1:B:398:LEU:HB2	1.88	0.55
1:C:130:LEU:HD22	1:C:177:THR:OG1	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:144:HIS:HB3	1:F:128:PHE:CE1	2.41	0.55
1:I:422:VAL:HG22	1:I:427:LEU:O	2.06	0.55
1:J:422:VAL:HG22	1:J:427:LEU:O	2.06	0.55
1:K:787:LEU:HD23	1:K:790:LEU:HD12	1.87	0.55
1:K:357:HIS:HE1	1:K:564:GLU:HA	1.71	0.55
1:E:1011:ASP:OD2	1:F:679:TYR:CE1	2.59	0.55
1:I:267:GLU:O	1:I:271:PHE:HB2	2.07	0.55
1:J:974:THR:HG21	1:J:977:PHE:HD1	1.70	0.55
1:B:165:CYS:HB2	1:B:277:VAL:H	1.71	0.55
1:J:456:SER:HB3	1:J:497:SER:HB3	1.88	0.55
1:C:882:THR:O	1:C:910:ALA:N	2.40	0.55
1:D:165:CYS:HB2	1:D:277:VAL:H	1.71	0.55
1:G:130:LEU:HD22	1:G:177:THR:OG1	2.06	0.55
1:B:370:LEU:O	1:B:374:ASN:ND2	2.29	0.55
1:B:415:SER:C	1:B:417:ASN:H	2.10	0.55
1:A:415:SER:C	1:A:417:ASN:H	2.10	0.55
1:H:889:CYS:H	1:H:892:VAL:HB	1.72	0.55
1:G:534:ILE:HD11	1:G:716:THR:HG22	1.88	0.55
1:E:534:ILE:HD11	1:E:716:THR:HG22	1.88	0.55
1:C:357:HIS:HE1	1:C:564:GLU:HA	1.71	0.55
1:F:357:HIS:HE1	1:F:564:GLU:HA	1.71	0.55
1:G:267:GLU:O	1:G:271:PHE:HB2	2.07	0.55
1:H:267:GLU:O	1:H:271:PHE:HB2	2.07	0.55
1:B:882:THR:O	1:B:910:ALA:N	2.40	0.55
1:A:921:ASP:HA	1:A:949:VAL:HG22	1.87	0.55
1:A:165:CYS:HB2	1:A:277:VAL:H	1.71	0.55
1:B:130:LEU:HD22	1:B:177:THR:OG1	2.06	0.55
1:H:144:HIS:HB3	1:I:128:PHE:CE1	2.41	0.55
1:I:889:CYS:H	1:I:892:VAL:HB	1.72	0.55
1:B:787:LEU:HD23	1:B:790:LEU:HD12	1.87	0.55
1:H:869:GLN:HG3	1:H:898:LYS:HD3	1.88	0.55
1:J:267:GLU:O	1:J:271:PHE:HB2	2.07	0.55
1:B:456:SER:HB3	1:B:497:SER:HB3	1.88	0.55
1:G:882:THR:O	1:G:910:ALA:N	2.40	0.55
1:I:456:SER:HB3	1:I:497:SER:HB3	1.88	0.55
1:C:395:ASP:HA	1:C:398:LEU:HB2	1.88	0.55
1:C:869:GLN:HG3	1:C:898:LYS:HD3	1.88	0.55
1:D:182:ILE:O	1:D:185:LEU:HB2	2.06	0.55
1:K:313:LEU:HD23	1:K:317:GLN:HG2	1.89	0.55
1:K:456:SER:HB3	1:K:497:SER:HB3	1.88	0.55
1:J:313:LEU:HD23	1:J:317:GLN:HG2	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:889:CYS:H	1:G:892:VAL:HB	1.72	0.55
1:F:422:VAL:HG22	1:F:427:LEU:O	2.06	0.55
1:K:534:ILE:HD11	1:K:716:THR:HG22	1.88	0.55
1:F:267:GLU:O	1:F:271:PHE:HB2	2.07	0.55
1:K:267:GLU:O	1:K:271:PHE:HB2	2.07	0.55
1:E:165:CYS:O	1:E:277:VAL:HB	2.07	0.55
1:I:165:CYS:O	1:I:277:VAL:HB	2.07	0.55
1:D:165:CYS:O	1:D:277:VAL:HB	2.07	0.55
1:H:456:SER:HB3	1:H:497:SER:HB3	1.88	0.55
1:B:214:GLU:O	1:B:218:ASP:N	2.31	0.55
1:A:882:THR:O	1:A:910:ALA:N	2.40	0.55
1:K:182:ILE:O	1:K:185:LEU:HB2	2.06	0.54
1:I:357:HIS:HE1	1:I:564:GLU:HA	1.71	0.54
1:B:1011:ASP:OD2	1:C:679:TYR:CE1	2.59	0.54
1:A:267:GLU:O	1:A:271:PHE:HB2	2.07	0.54
1:F:165:CYS:O	1:F:277:VAL:HB	2.07	0.54
1:J:882:THR:O	1:J:910:ALA:N	2.40	0.54
1:F:869:GLN:HG3	1:F:898:LYS:HD3	1.88	0.54
1:I:787:LEU:HD23	1:I:790:LEU:HD12	1.87	0.54
1:K:882:THR:O	1:K:910:ALA:N	2.40	0.54
1:H:313:LEU:HD23	1:H:317:GLN:HG2	1.89	0.54
1:I:313:LEU:HD23	1:I:317:GLN:HG2	1.89	0.54
1:F:781:LYS:NZ	1:F:785:GLU:OE2	2.32	0.54
1:B:182:ILE:O	1:B:185:LEU:HB2	2.06	0.54
1:B:267:GLU:O	1:B:271:PHE:HB2	2.07	0.54
1:E:267:GLU:O	1:E:271:PHE:HB2	2.07	0.54
1:G:560:ASN:O	1:G:563:SER:OG	2.19	0.54
1:H:882:THR:O	1:H:910:ALA:N	2.40	0.54
1:A:456:SER:HB3	1:A:497:SER:HB3	1.88	0.54
1:D:214:GLU:O	1:D:218:ASP:N	2.31	0.54
1:E:117:PHE:HB2	1:E:128:PHE:O	2.08	0.54
1:B:869:GLN:HG3	1:B:898:LYS:HD3	1.88	0.54
1:F:415:SER:C	1:F:417:ASN:H	2.10	0.54
1:E:825:MET:N	1:E:852:ILE:O	2.40	0.54
1:C:267:GLU:O	1:C:271:PHE:HB2	2.07	0.54
1:D:267:GLU:O	1:D:271:PHE:HB2	2.07	0.54
1:G:165:CYS:O	1:G:277:VAL:HB	2.07	0.54
1:A:165:CYS:O	1:A:277:VAL:HB	2.07	0.54
1:C:165:CYS:O	1:C:277:VAL:HB	2.07	0.54
1:I:649:VAL:O	1:I:652:PHE:N	2.41	0.54
1:A:313:LEU:HD23	1:A:317:GLN:HG2	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:649:VAL:O	1:J:652:PHE:N	2.41	0.54
1:B:117:PHE:HB2	1:B:128:PHE:O	2.08	0.54
1:C:117:PHE:HB2	1:C:128:PHE:O	2.08	0.54
1:B:889:CYS:H	1:B:892:VAL:HB	1.72	0.54
1:F:889:CYS:H	1:F:892:VAL:HB	1.72	0.54
1:J:889:CYS:H	1:J:892:VAL:HB	1.72	0.54
1:C:415:SER:C	1:C:417:ASN:H	2.10	0.54
1:G:422:VAL:HG22	1:G:427:LEU:O	2.06	0.54
1:A:534:ILE:HD11	1:A:716:THR:HG22	1.88	0.54
1:J:534:ILE:HD11	1:J:716:THR:HG22	1.88	0.54
1:C:534:ILE:HD11	1:C:716:THR:HG22	1.88	0.54
1:B:357:HIS:HE1	1:B:564:GLU:HA	1.71	0.54
1:F:445:SER:O	1:F:448:GLU:HG3	2.08	0.54
1:D:445:SER:O	1:D:448:GLU:HG3	2.08	0.54
1:C:165:CYS:HB2	1:C:277:VAL:H	1.71	0.54
1:K:974:THR:HG21	1:K:977:PHE:HD1	1.70	0.54
1:H:649:VAL:O	1:H:652:PHE:N	2.41	0.54
1:I:882:THR:O	1:I:910:ALA:N	2.40	0.54
1:C:889:CYS:H	1:C:892:VAL:HB	1.72	0.54
1:K:415:SER:C	1:K:417:ASN:H	2.10	0.54
1:C:182:ILE:O	1:C:185:LEU:HB2	2.06	0.54
1:B:534:ILE:HD11	1:B:716:THR:HG22	1.88	0.54
1:I:445:SER:O	1:I:448:GLU:HG3	2.08	0.54
1:B:445:SER:O	1:B:448:GLU:HG3	2.08	0.54
1:G:357:HIS:HE1	1:G:564:GLU:HA	1.71	0.54
1:H:1011:ASP:OD2	1:I:679:TYR:CE1	2.60	0.54
1:A:560:ASN:O	1:A:563:SER:OG	2.19	0.54
1:K:1011:ASP:OD2	1:A:679:TYR:HE1	1.91	0.54
1:D:889:CYS:H	1:D:892:VAL:HB	1.72	0.54
1:B:946:GLY:N	1:B:973:SER:OG	2.41	0.54
1:E:415:SER:C	1:E:417:ASN:H	2.10	0.54
1:A:889:CYS:H	1:A:892:VAL:HB	1.72	0.54
1:C:364:GLN:HA	1:C:367:TYR:CD2	2.32	0.54
1:G:445:SER:O	1:G:448:GLU:HG3	2.08	0.54
1:H:165:CYS:O	1:H:277:VAL:HB	2.07	0.54
1:E:313:LEU:HD23	1:E:317:GLN:HG2	1.89	0.54
1:C:744:HIS:O	1:C:745:ARG:HD2	2.08	0.54
1:A:946:GLY:N	1:A:973:SER:OG	2.41	0.54
1:B:756:ILE:HG22	1:B:783:LEU:HD13	1.90	0.54
1:A:744:HIS:O	1:A:745:ARG:HD2	2.08	0.54
1:G:250:TYR:CD2	1:G:279:THR:HA	2.43	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:649:VAL:O	1:G:652:PHE:N	2.41	0.54
1:E:889:CYS:H	1:E:892:VAL:HB	1.72	0.54
1:E:182:ILE:O	1:E:185:LEU:HB2	2.06	0.54
1:K:445:SER:O	1:K:448:GLU:HG3	2.08	0.54
1:E:214:GLU:O	1:E:218:ASP:N	2.31	0.54
1:K:165:CYS:O	1:K:277:VAL:HB	2.07	0.54
1:C:214:GLU:O	1:C:218:ASP:N	2.31	0.54
1:C:756:ILE:HG22	1:C:783:LEU:HD13	1.90	0.54
1:H:250:TYR:CD2	1:H:279:THR:HA	2.43	0.54
1:A:117:PHE:HB2	1:A:128:PHE:O	2.08	0.54
1:D:117:PHE:HB2	1:D:128:PHE:O	2.08	0.54
1:D:869:GLN:HG3	1:D:898:LYS:HD3	1.88	0.54
1:C:946:GLY:N	1:C:973:SER:OG	2.41	0.54
1:D:825:MET:N	1:D:852:ILE:O	2.40	0.54
1:J:165:CYS:O	1:J:277:VAL:HB	2.07	0.54
1:B:165:CYS:O	1:B:277:VAL:HB	2.07	0.54
1:B:313:LEU:HD23	1:B:317:GLN:HG2	1.89	0.54
1:E:560:ASN:O	1:E:563:SER:OG	2.19	0.54
1:K:181:ARG:HH11	1:K:184:MET:HB3	1.73	0.54
1:G:181:ARG:HH11	1:G:184:MET:HB3	1.73	0.54
1:J:445:SER:O	1:J:448:GLU:HG3	2.08	0.54
1:I:250:TYR:CD2	1:I:279:THR:HA	2.43	0.54
1:G:313:LEU:HD23	1:G:317:GLN:HG2	1.89	0.54
1:H:677:ILE:O	1:H:680:LEU:HB2	2.08	0.54
1:F:250:TYR:CD2	1:F:279:THR:HA	2.43	0.54
1:F:744:HIS:O	1:F:745:ARG:HD2	2.08	0.54
1:E:181:ARG:HH11	1:E:184:MET:HB3	1.74	0.53
1:A:181:ARG:HH11	1:A:184:MET:HB3	1.73	0.53
1:I:181:ARG:HH11	1:I:184:MET:HB3	1.74	0.53
1:H:415:SER:C	1:H:417:ASN:H	2.10	0.53
1:E:856:SER:HB2	1:E:915:LYS:HD3	1.90	0.53
1:E:445:SER:O	1:E:448:GLU:HG3	2.08	0.53
1:D:921:ASP:OD1	1:D:950:SER:OG	2.25	0.53
1:F:456:SER:CB	1:F:497:SER:HB3	2.38	0.53
1:K:165:CYS:HB2	1:K:277:VAL:H	1.71	0.53
1:H:974:THR:HG21	1:H:977:PHE:HD1	1.70	0.53
1:A:674:LYS:HA	1:A:677:ILE:HG12	1.91	0.53
1:J:250:TYR:CD2	1:J:279:THR:HA	2.43	0.53
1:B:101:LEU:HD11	1:B:224:PRO:HG2	1.90	0.53
1:J:677:ILE:O	1:J:680:LEU:HB2	2.08	0.53
1:C:313:LEU:HD23	1:C:317:GLN:HG2	1.89	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:117:PHE:HB2	1:F:128:PHE:O	2.08	0.53
1:C:856:SER:HB2	1:C:915:LYS:HD3	1.90	0.53
1:D:946:GLY:N	1:D:973:SER:OG	2.41	0.53
1:K:946:GLY:N	1:K:973:SER:OG	2.41	0.53
1:F:921:ASP:OD1	1:F:950:SER:OG	2.25	0.53
1:H:456:SER:CB	1:H:497:SER:HB3	2.39	0.53
1:E:250:TYR:CD2	1:E:279:THR:HA	2.43	0.53
1:E:744:HIS:O	1:E:745:ARG:HD2	2.08	0.53
1:F:791:LYS:O	1:F:821:ASP:HB2	2.09	0.53
1:A:791:LYS:O	1:A:821:ASP:HB2	2.09	0.53
1:D:181:ARG:HH11	1:D:184:MET:HB3	1.73	0.53
1:F:181:ARG:HH11	1:F:184:MET:HB3	1.74	0.53
1:J:892:VAL:O	1:J:895:SER:OG	2.15	0.53
1:G:366:PHE:HA	1:G:369:LEU:HD12	1.90	0.53
1:G:456:SER:CB	1:G:497:SER:HB3	2.39	0.53
1:A:456:SER:CB	1:A:497:SER:HB3	2.39	0.53
1:F:674:LYS:HA	1:F:677:ILE:HG12	1.91	0.53
1:D:250:TYR:CD2	1:D:279:THR:HA	2.43	0.53
1:B:677:ILE:O	1:B:680:LEU:HB2	2.08	0.53
1:A:756:ILE:HG22	1:A:783:LEU:HD13	1.90	0.53
1:C:101:LEU:HD11	1:C:224:PRO:HG2	1.90	0.53
1:D:649:VAL:O	1:D:652:PHE:N	2.41	0.53
1:F:649:VAL:O	1:F:652:PHE:N	2.41	0.53
1:K:677:ILE:O	1:K:680:LEU:HB2	2.08	0.53
1:D:856:SER:HB2	1:D:915:LYS:HD3	1.90	0.53
1:H:946:GLY:N	1:H:973:SER:OG	2.41	0.53
1:I:415:SER:C	1:I:417:ASN:H	2.10	0.53
1:K:889:CYS:H	1:K:892:VAL:HB	1.72	0.53
1:J:285:ARG:HB3	1:J:431:THR:HG21	1.91	0.53
1:K:285:ARG:HB3	1:K:431:THR:HG21	1.91	0.53
1:K:952:ASP:O	1:K:955:LEU:HB3	2.09	0.53
1:A:952:ASP:O	1:A:955:LEU:HB3	2.09	0.53
1:H:366:PHE:HA	1:H:369:LEU:HD12	1.90	0.53
1:E:456:SER:CB	1:E:497:SER:HB3	2.39	0.53
1:G:974:THR:HG22	1:G:1005:TRP:CD1	2.44	0.53
1:J:456:SER:CB	1:J:497:SER:HB3	2.39	0.53
1:K:456:SER:CB	1:K:497:SER:HB3	2.39	0.53
1:K:674:LYS:HA	1:K:677:ILE:HG12	1.91	0.53
1:J:791:LYS:O	1:J:821:ASP:HB2	2.09	0.53
1:K:101:LEU:HD11	1:K:224:PRO:HG2	1.90	0.53
1:I:744:HIS:O	1:I:745:ARG:HD2	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:791:LYS:O	1:H:821:ASP:HB2	2.09	0.53
1:D:524:THR:OG1	1:D:530:ARG:NH1	2.28	0.53
1:I:756:ILE:HG22	1:I:783:LEU:HD13	1.90	0.53
1:J:744:HIS:O	1:J:745:ARG:HD2	2.08	0.53
1:K:791:LYS:O	1:K:821:ASP:HB2	2.09	0.53
1:C:674:LYS:HA	1:C:677:ILE:HG12	1.91	0.53
1:D:756:ILE:HG22	1:D:783:LEU:HD13	1.90	0.53
1:D:674:LYS:HA	1:D:677:ILE:HG12	1.91	0.53
1:K:130:LEU:HA	1:K:133:THR:OG1	2.09	0.53
1:E:892:VAL:O	1:E:895:SER:OG	2.15	0.53
1:J:415:SER:C	1:J:417:ASN:H	2.10	0.53
1:D:285:ARG:HB3	1:D:431:THR:HG21	1.91	0.53
1:F:952:ASP:O	1:F:955:LEU:HB3	2.09	0.53
1:A:445:SER:O	1:A:448:GLU:HG3	2.08	0.53
1:F:366:PHE:HA	1:F:369:LEU:HD12	1.90	0.53
1:K:974:THR:HG22	1:K:1005:TRP:CD1	2.44	0.53
1:G:744:HIS:O	1:G:745:ARG:HD2	2.08	0.53
1:D:791:LYS:O	1:D:821:ASP:HB2	2.09	0.53
1:E:674:LYS:HA	1:E:677:ILE:HG12	1.91	0.53
1:K:117:PHE:HB2	1:K:128:PHE:O	2.08	0.53
1:B:856:SER:HB2	1:B:915:LYS:HD3	1.90	0.53
1:D:859:TYR:CD1	1:D:889:CYS:HA	2.44	0.53
1:I:130:LEU:HA	1:I:133:THR:OG1	2.09	0.53
1:A:364:GLN:HA	1:A:367:TYR:CD2	2.32	0.53
1:A:859:TYR:CD1	1:A:889:CYS:HA	2.44	0.53
1:G:285:ARG:HB3	1:G:431:THR:HG21	1.91	0.53
1:F:285:ARG:HB3	1:F:431:THR:HG21	1.91	0.53
1:I:952:ASP:O	1:I:955:LEU:HB3	2.09	0.53
1:B:952:ASP:O	1:B:955:LEU:HB3	2.09	0.53
1:H:445:SER:O	1:H:448:GLU:HG3	2.08	0.53
1:D:974:THR:HG22	1:D:1005:TRP:CD1	2.44	0.53
1:D:974:THR:HG21	1:D:977:PHE:CD1	2.44	0.53
1:C:974:THR:HG22	1:C:1005:TRP:CD1	2.44	0.53
1:B:974:THR:HG22	1:B:1005:TRP:CD1	2.44	0.53
1:I:974:THR:HG22	1:I:1005:TRP:CD1	2.44	0.53
1:C:250:TYR:CD2	1:C:279:THR:HA	2.43	0.53
1:A:101:LEU:HD11	1:A:224:PRO:HG2	1.90	0.53
1:G:946:GLY:N	1:G:973:SER:OG	2.41	0.53
1:D:560:ASN:O	1:D:563:SER:OG	2.19	0.53
1:K:250:TYR:CD2	1:K:279:THR:HA	2.43	0.53
1:F:560:ASN:O	1:F:563:SER:OG	2.19	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:130:LEU:HA	1:B:133:THR:OG1	2.09	0.53
1:H:117:PHE:HB2	1:H:128:PHE:O	2.08	0.53
1:D:130:LEU:HA	1:D:133:THR:OG1	2.09	0.53
1:C:859:TYR:CD1	1:C:889:CYS:HA	2.44	0.53
1:A:856:SER:HB2	1:A:915:LYS:HD3	1.90	0.53
1:E:946:GLY:N	1:E:973:SER:OG	2.41	0.53
1:B:859:TYR:CD1	1:B:889:CYS:HA	2.44	0.53
1:C:285:ARG:HB3	1:C:431:THR:HG21	1.91	0.53
1:C:445:SER:O	1:C:448:GLU:HG3	2.08	0.53
1:C:825:MET:N	1:C:852:ILE:O	2.40	0.53
1:C:98:LEU:HD11	1:C:235:LEU:HD11	1.91	0.53
1:B:98:LEU:HD11	1:B:235:LEU:HD11	1.91	0.53
1:E:974:THR:HG22	1:E:1005:TRP:CD1	2.44	0.53
1:H:921:ASP:OD1	1:H:950:SER:OG	2.25	0.53
1:A:974:THR:HG22	1:A:1005:TRP:CD1	2.44	0.53
1:C:456:SER:CB	1:C:497:SER:HB3	2.39	0.53
1:J:974:THR:HG22	1:J:1005:TRP:CD1	2.44	0.53
1:I:456:SER:CB	1:I:497:SER:HB3	2.39	0.53
1:H:674:LYS:HA	1:H:677:ILE:HG12	1.91	0.53
1:A:677:ILE:O	1:A:680:LEU:HB2	2.08	0.53
1:I:524:THR:OG1	1:I:530:ARG:NH1	2.28	0.53
1:B:744:HIS:O	1:B:745:ARG:HD2	2.08	0.53
1:F:313:LEU:HD23	1:F:317:GLN:HG2	1.89	0.53
1:G:677:ILE:O	1:G:680:LEU:HB2	2.08	0.53
1:K:744:HIS:O	1:K:745:ARG:HD2	2.08	0.53
1:I:791:LYS:O	1:I:821:ASP:HB2	2.09	0.53
1:H:101:LEU:HD11	1:H:224:PRO:HG2	1.90	0.53
1:J:756:ILE:HG22	1:J:783:LEU:HD13	1.90	0.53
1:J:181:ARG:HH11	1:J:184:MET:HB3	1.74	0.53
1:E:859:TYR:CD1	1:E:889:CYS:HA	2.44	0.53
1:J:946:GLY:N	1:J:973:SER:OG	2.41	0.53
1:E:285:ARG:HB3	1:E:431:THR:HG21	1.91	0.53
1:A:285:ARG:HB3	1:A:431:THR:HG21	1.91	0.53
1:D:952:ASP:O	1:D:955:LEU:HB3	2.09	0.53
1:J:952:ASP:O	1:J:955:LEU:HB3	2.09	0.53
1:C:952:ASP:O	1:C:955:LEU:HB3	2.09	0.53
1:F:495:CYS:HB2	1:F:564:GLU:HG2	1.91	0.53
1:H:974:THR:HG22	1:H:1005:TRP:CD1	2.44	0.53
1:J:674:LYS:HA	1:J:677:ILE:HG12	1.91	0.53
1:B:674:LYS:HA	1:B:677:ILE:HG12	1.91	0.53
1:E:677:ILE:O	1:E:680:LEU:HB2	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:756:ILE:HG22	1:F:783:LEU:HD13	1.90	0.53
1:B:920:ARG:NH2	1:B:922:GLU:OE1	2.42	0.53
1:C:920:ARG:NH2	1:C:922:GLU:OE1	2.42	0.53
1:D:744:HIS:O	1:D:745:ARG:HD2	2.08	0.53
1:H:756:ILE:HG22	1:H:783:LEU:HD13	1.90	0.53
1:B:791:LYS:O	1:B:821:ASP:HB2	2.09	0.53
1:B:181:ARG:HH11	1:B:184:MET:HB3	1.73	0.53
1:K:364:GLN:HA	1:K:367:TYR:CD2	2.32	0.53
1:D:415:SER:C	1:D:417:ASN:H	2.10	0.53
1:K:859:TYR:CD1	1:K:889:CYS:HA	2.44	0.53
1:H:285:ARG:HB3	1:H:431:THR:HG21	1.91	0.53
1:I:285:ARG:HB3	1:I:431:THR:HG21	1.91	0.53
1:B:285:ARG:HB3	1:B:431:THR:HG21	1.91	0.53
1:B:572:SER:CB	1:B:602:LEU:HD11	2.39	0.53
1:I:366:PHE:HA	1:I:369:LEU:HD12	1.90	0.53
1:E:495:CYS:HB2	1:E:564:GLU:HG2	1.91	0.53
1:A:329:ARG:HH11	1:A:332:ARG:HD3	1.74	0.53
1:B:974:THR:HG21	1:B:977:PHE:CD1	2.44	0.53
1:I:921:ASP:OD1	1:I:950:SER:OG	2.25	0.53
1:B:456:SER:CB	1:B:497:SER:HB3	2.39	0.53
1:F:101:LEU:HD11	1:F:224:PRO:HG2	1.90	0.53
1:D:920:ARG:NH2	1:D:922:GLU:OE1	2.42	0.53
1:B:250:TYR:CD2	1:B:279:THR:HA	2.43	0.53
1:G:791:LYS:O	1:G:821:ASP:HB2	2.09	0.53
1:F:433:GLN:HG2	1:G:125:ASP:N	2.13	0.53
1:G:117:PHE:HB2	1:G:128:PHE:O	2.08	0.53
1:G:130:LEU:HA	1:G:133:THR:OG1	2.09	0.53
1:D:893:HIS:HA	1:D:917:TRP:CE3	2.44	0.53
1:G:856:SER:HB2	1:G:915:LYS:HD3	1.90	0.53
1:C:408:PHE:HE2	1:C:439:TYR:HE2	1.57	0.53
1:D:179:LEU:HA	1:D:182:ILE:HB	1.91	0.53
1:C:572:SER:CB	1:C:602:LEU:HD11	2.39	0.53
1:E:366:PHE:HA	1:E:369:LEU:HD12	1.90	0.53
1:G:495:CYS:HB2	1:G:564:GLU:HG2	1.91	0.53
1:A:974:THR:HG21	1:A:977:PHE:CD1	2.44	0.53
1:G:674:LYS:HA	1:G:677:ILE:HG12	1.91	0.53
1:A:250:TYR:CD2	1:A:279:THR:HA	2.43	0.53
1:E:649:VAL:O	1:E:652:PHE:N	2.41	0.53
1:C:791:LYS:O	1:C:821:ASP:HB2	2.09	0.53
1:D:313:LEU:HD23	1:D:317:GLN:HG2	1.89	0.53
1:E:130:LEU:HA	1:E:133:THR:OG1	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:856:SER:HB2	1:F:915:LYS:HD3	1.90	0.52
1:F:893:HIS:HA	1:F:917:TRP:CE3	2.44	0.52
1:I:893:HIS:HA	1:I:917:TRP:CE3	2.44	0.52
1:G:893:HIS:HA	1:G:917:TRP:CE3	2.44	0.52
1:I:408:PHE:HE2	1:I:439:TYR:HE2	1.58	0.52
1:K:98:LEU:HD11	1:K:235:LEU:HD11	1.91	0.52
1:F:974:THR:HG22	1:F:1005:TRP:CD1	2.44	0.52
1:D:456:SER:CB	1:D:497:SER:HB3	2.38	0.52
1:H:974:THR:HG21	1:H:977:PHE:CD1	2.44	0.52
1:A:920:ARG:NH2	1:A:922:GLU:OE1	2.42	0.52
1:F:214:GLU:O	1:F:218:ASP:N	2.31	0.52
1:K:756:ILE:HG22	1:K:783:LEU:HD13	1.90	0.52
1:D:177:THR:HA	1:D:180:GLN:NE2	2.25	0.52
1:E:893:HIS:HA	1:E:917:TRP:CE3	2.44	0.52
1:F:859:TYR:CD1	1:F:889:CYS:HA	2.44	0.52
1:A:179:LEU:HA	1:A:182:ILE:HB	1.91	0.52
1:E:952:ASP:O	1:E:955:LEU:HB3	2.09	0.52
1:G:952:ASP:O	1:G:955:LEU:HB3	2.09	0.52
1:C:243:VAL:O	1:C:273:ASN:HB3	2.09	0.52
1:A:98:LEU:HD11	1:A:235:LEU:HD11	1.91	0.52
1:D:329:ARG:HH11	1:D:332:ARG:HD3	1.74	0.52
1:J:329:ARG:HH11	1:J:332:ARG:HD3	1.74	0.52
1:G:974:THR:HG21	1:G:977:PHE:CD1	2.44	0.52
1:C:677:ILE:O	1:C:680:LEU:HB2	2.08	0.52
1:I:674:LYS:HA	1:I:677:ILE:HG12	1.91	0.52
1:G:101:LEU:HD11	1:G:224:PRO:HG2	1.90	0.52
1:H:920:ARG:NH2	1:H:922:GLU:OE1	2.42	0.52
1:E:756:ILE:HG22	1:E:783:LEU:HD13	1.90	0.52
1:J:101:LEU:HD11	1:J:224:PRO:HG2	1.90	0.52
1:D:101:LEU:HD11	1:D:224:PRO:HG2	1.90	0.52
1:H:744:HIS:O	1:H:745:ARG:HD2	2.08	0.52
1:B:177:THR:HA	1:B:180:GLN:CD	2.30	0.52
1:J:117:PHE:HB2	1:J:128:PHE:O	2.08	0.52
1:C:130:LEU:HA	1:C:133:THR:OG1	2.09	0.52
1:F:130:LEU:HA	1:F:133:THR:OG1	2.09	0.52
1:F:177:THR:HA	1:F:180:GLN:CD	2.30	0.52
1:K:856:SER:HB2	1:K:915:LYS:HD3	1.90	0.52
1:G:408:PHE:HE2	1:G:439:TYR:HE2	1.58	0.52
1:B:408:PHE:HE2	1:B:439:TYR:HE2	1.58	0.52
1:B:179:LEU:HA	1:B:182:ILE:HB	1.92	0.52
1:A:366:PHE:HA	1:A:369:LEU:HD12	1.90	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:495:CYS:HB2	1:H:564:GLU:HG2	1.91	0.52
1:F:974:THR:HG21	1:F:977:PHE:CD1	2.44	0.52
1:E:974:THR:HG21	1:E:977:PHE:CD1	2.44	0.52
1:F:677:ILE:O	1:F:680:LEU:HB2	2.09	0.52
1:I:677:ILE:O	1:I:680:LEU:HB2	2.08	0.52
1:G:756:ILE:HG22	1:G:783:LEU:HD13	1.90	0.52
1:B:177:THR:HA	1:B:180:GLN:NE2	2.25	0.52
1:A:130:LEU:HA	1:A:133:THR:OG1	2.09	0.52
1:C:181:ARG:HH11	1:C:184:MET:HB3	1.73	0.52
1:I:117:PHE:HB2	1:I:128:PHE:O	2.08	0.52
1:A:893:HIS:HA	1:A:917:TRP:CE3	2.44	0.52
1:G:892:VAL:O	1:G:895:SER:OG	2.15	0.52
1:K:408:PHE:HE2	1:K:439:TYR:HE2	1.58	0.52
1:E:990:VAL:O	1:E:993:LYS:HB2	2.09	0.52
1:D:572:SER:CB	1:D:602:LEU:HD11	2.39	0.52
1:F:924:ILE:HG23	1:F:957:PHE:HB2	1.92	0.52
1:E:243:VAL:O	1:E:273:ASN:HB3	2.09	0.52
1:D:729:GLU:O	1:D:732:ILE:HB	2.10	0.52
1:E:329:ARG:HH11	1:E:332:ARG:HD3	1.74	0.52
1:C:329:ARG:HH11	1:C:332:ARG:HD3	1.74	0.52
1:G:920:ARG:NH2	1:G:922:GLU:OE1	2.42	0.52
1:I:920:ARG:NH2	1:I:922:GLU:OE1	2.42	0.52
1:K:374:ASN:CG	1:K:424:ILE:HG23	2.30	0.52
1:J:859:TYR:CD1	1:J:889:CYS:HA	2.44	0.52
1:H:408:PHE:HE2	1:H:439:TYR:HE2	1.57	0.52
1:E:408:PHE:HE2	1:E:439:TYR:HE2	1.58	0.52
1:J:408:PHE:HE2	1:J:439:TYR:HE2	1.58	0.52
1:F:364:GLN:HA	1:F:367:TYR:CD2	2.32	0.52
1:H:952:ASP:O	1:H:955:LEU:HB3	2.09	0.52
1:D:495:CYS:HB2	1:D:564:GLU:HG2	1.91	0.52
1:D:98:LEU:HD11	1:D:235:LEU:HD11	1.91	0.52
1:J:924:ILE:HG23	1:J:957:PHE:HB2	1.92	0.52
1:E:98:LEU:HD11	1:E:235:LEU:HD11	1.91	0.52
1:D:243:VAL:O	1:D:273:ASN:HB3	2.09	0.52
1:C:990:VAL:O	1:C:993:LYS:HB2	2.09	0.52
1:I:206:ARG:NH1	1:I:207:SER:HB3	2.25	0.52
1:K:524:THR:OG1	1:K:530:ARG:NH1	2.28	0.52
1:E:920:ARG:NH2	1:E:922:GLU:OE1	2.42	0.52
1:E:791:LYS:O	1:E:821:ASP:HB2	2.09	0.52
1:J:402:PHE:HD1	1:J:487:TYR:CZ	2.28	0.52
1:H:402:PHE:HD1	1:H:487:TYR:CZ	2.28	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:177:THR:HA	1:A:180:GLN:CD	2.30	0.52
1:G:177:THR:HA	1:G:180:GLN:CD	2.30	0.52
1:I:856:SER:HB2	1:I:915:LYS:HD3	1.90	0.52
1:H:856:SER:HB2	1:H:915:LYS:HD3	1.90	0.52
1:J:374:ASN:CG	1:J:424:ILE:HG23	2.30	0.52
1:F:946:GLY:N	1:F:973:SER:OG	2.41	0.52
1:I:946:GLY:N	1:I:973:SER:OG	2.41	0.52
1:G:859:TYR:CD1	1:G:889:CYS:HA	2.44	0.52
1:K:893:HIS:HA	1:K:917:TRP:CE3	2.44	0.52
1:D:408:PHE:HE2	1:D:439:TYR:HE2	1.57	0.52
1:A:408:PHE:HE2	1:A:439:TYR:HE2	1.58	0.52
1:G:985:ARG:O	1:G:988:SER:OG	2.19	0.52
1:E:179:LEU:HA	1:E:182:ILE:HB	1.91	0.52
1:J:366:PHE:HA	1:J:369:LEU:HD12	1.90	0.52
1:D:366:PHE:HA	1:D:369:LEU:HD12	1.90	0.52
1:A:495:CYS:HB2	1:A:564:GLU:HG2	1.91	0.52
1:K:366:PHE:HA	1:K:369:LEU:HD12	1.90	0.52
1:H:924:ILE:HG23	1:H:957:PHE:HB2	1.92	0.52
1:H:98:LEU:HD11	1:H:235:LEU:HD11	1.91	0.52
1:F:729:GLU:O	1:F:732:ILE:HB	2.10	0.52
1:F:732:ILE:HD13	1:F:741:LEU:HD11	1.92	0.52
1:G:329:ARG:HH11	1:G:332:ARG:HD3	1.74	0.52
1:C:974:THR:HG21	1:C:977:PHE:CD1	2.44	0.52
1:J:974:THR:HG21	1:J:977:PHE:CD1	2.44	0.52
1:A:649:VAL:O	1:A:652:PHE:N	2.41	0.52
1:E:101:LEU:HD11	1:E:224:PRO:HG2	1.90	0.52
1:B:402:PHE:HD1	1:B:487:TYR:CZ	2.28	0.52
1:E:177:THR:HA	1:E:180:GLN:NE2	2.25	0.52
1:C:893:HIS:HA	1:C:917:TRP:CE3	2.44	0.52
1:J:856:SER:HB2	1:J:915:LYS:HD3	1.90	0.52
1:B:781:LYS:HD3	1:B:810:TYR:HB3	1.92	0.52
1:J:893:HIS:HA	1:J:917:TRP:CE3	2.44	0.52
1:F:179:LEU:HA	1:F:182:ILE:HB	1.91	0.52
1:B:495:CYS:HB2	1:B:564:GLU:HG2	1.91	0.52
1:F:490:LEU:O	1:F:494:THR:HG23	2.10	0.52
1:J:495:CYS:HB2	1:J:564:GLU:HG2	1.91	0.52
1:K:495:CYS:HB2	1:K:564:GLU:HG2	1.91	0.52
1:H:732:ILE:HD13	1:H:741:LEU:HD11	1.92	0.52
1:B:729:GLU:O	1:B:732:ILE:HB	2.10	0.52
1:D:677:ILE:O	1:D:680:LEU:HB2	2.09	0.52
1:F:206:ARG:NH1	1:F:207:SER:HB3	2.25	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:136:GLU:OE1	1:E:137:PRO:HD2	2.10	0.52
1:B:649:VAL:O	1:B:652:PHE:N	2.41	0.52
1:G:136:GLU:OE1	1:G:137:PRO:HD2	2.10	0.52
1:I:136:GLU:OE1	1:I:137:PRO:HD2	2.10	0.52
1:J:136:GLU:OE1	1:J:137:PRO:HD2	2.10	0.52
1:C:136:GLU:OE1	1:C:137:PRO:HD2	2.10	0.52
1:C:402:PHE:HD1	1:C:487:TYR:CZ	2.28	0.52
1:I:402:PHE:HD1	1:I:487:TYR:CZ	2.28	0.52
1:J:130:LEU:HA	1:J:133:THR:OG1	2.09	0.52
1:J:177:THR:HA	1:J:180:GLN:CD	2.30	0.52
1:C:177:THR:HA	1:C:180:GLN:CD	2.30	0.52
1:H:364:GLN:HA	1:H:367:TYR:CD2	2.32	0.52
1:C:374:ASN:CG	1:C:424:ILE:HG23	2.30	0.52
1:J:572:SER:CB	1:J:602:LEU:HD11	2.39	0.52
1:K:1015:ILE:CG2	1:A:653:PHE:HB3	2.39	0.52
1:H:490:LEU:O	1:H:494:THR:HG23	2.10	0.52
1:I:495:CYS:HB2	1:I:564:GLU:HG2	1.91	0.52
1:J:732:ILE:HD13	1:J:741:LEU:HD11	1.92	0.52
1:A:729:GLU:O	1:A:732:ILE:HB	2.10	0.52
1:A:732:ILE:HD13	1:A:741:LEU:HD11	1.92	0.52
1:K:990:VAL:O	1:K:993:LYS:HB2	2.09	0.52
1:J:990:VAL:O	1:J:993:LYS:HB2	2.09	0.52
1:B:329:ARG:HH11	1:B:332:ARG:HD3	1.74	0.52
1:A:206:ARG:NH1	1:A:207:SER:HB3	2.25	0.52
1:H:206:ARG:NH1	1:H:207:SER:HB3	2.25	0.52
1:I:848:ILE:HG13	1:I:880:GLU:HG3	1.92	0.52
1:J:206:ARG:NH1	1:J:207:SER:HB3	2.25	0.52
1:F:920:ARG:NH2	1:F:922:GLU:OE1	2.42	0.52
1:E:177:THR:HA	1:E:180:GLN:CD	2.30	0.52
1:H:181:ARG:HH11	1:H:184:MET:HB3	1.74	0.52
1:G:415:SER:C	1:G:417:ASN:H	2.10	0.52
1:D:374:ASN:CG	1:D:424:ILE:HG23	2.30	0.52
1:F:408:PHE:HE2	1:F:439:TYR:HE2	1.58	0.52
1:E:572:SER:CB	1:E:602:LEU:HD11	2.39	0.52
1:J:245:PHE:O	1:J:275:VAL:HG23	2.10	0.52
1:D:924:ILE:HG23	1:D:957:PHE:HB2	1.92	0.52
1:A:924:ILE:HG23	1:A:957:PHE:HB2	1.92	0.52
1:K:221:LEU:HD22	1:J:270:ARG:NH2	2.24	0.52
1:K:329:ARG:HH11	1:K:332:ARG:HD3	1.74	0.52
1:I:329:ARG:HH11	1:I:332:ARG:HD3	1.74	0.52
1:I:974:THR:HG21	1:I:977:PHE:CD1	2.44	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:999:GLU:OE2	1:C:1022:VAL:HG13	2.10	0.52
1:B:206:ARG:NH1	1:B:207:SER:HB3	2.25	0.52
1:H:848:ILE:HG13	1:H:880:GLU:HG3	1.92	0.52
1:E:265:ILE:HG13	1:E:266:LYS:HG3	1.92	0.52
1:J:920:ARG:NH2	1:J:922:GLU:OE1	2.42	0.52
1:K:920:ARG:NH2	1:K:922:GLU:OE1	2.42	0.52
1:I:101:LEU:HD11	1:I:224:PRO:HG2	1.90	0.52
1:K:206:ARG:NH1	1:K:207:SER:HB3	2.25	0.52
1:E:206:ARG:NH1	1:E:207:SER:HB3	2.25	0.52
1:D:402:PHE:HD1	1:D:487:TYR:CZ	2.28	0.52
1:F:402:PHE:HD1	1:F:487:TYR:CZ	2.28	0.52
1:A:177:THR:HA	1:A:180:GLN:NE2	2.25	0.52
1:B:390:LEU:HD22	1:B:426:LEU:HD13	1.92	0.52
1:A:374:ASN:CG	1:A:424:ILE:HG23	2.30	0.52
1:D:781:LYS:HD3	1:D:810:TYR:HB3	1.92	0.52
1:F:781:LYS:HD3	1:F:810:TYR:HB3	1.92	0.52
1:J:179:LEU:HA	1:J:182:ILE:HB	1.91	0.52
1:J:490:LEU:O	1:J:494:THR:HG23	2.10	0.52
1:K:924:ILE:HG23	1:K:957:PHE:HB2	1.92	0.52
1:J:98:LEU:HD11	1:J:235:LEU:HD11	1.91	0.52
1:G:245:PHE:O	1:G:275:VAL:HG23	2.10	0.52
1:I:243:VAL:O	1:I:273:ASN:HB3	2.09	0.52
1:F:243:VAL:O	1:F:273:ASN:HB3	2.09	0.52
1:E:924:ILE:HG23	1:E:957:PHE:HB2	1.92	0.52
1:F:329:ARG:HH11	1:F:332:ARG:HD3	1.74	0.52
1:K:906:THR:O	1:K:909:LEU:HB2	2.11	0.52
1:H:329:ARG:HH11	1:H:332:ARG:HD3	1.74	0.52
1:G:206:ARG:NH1	1:G:207:SER:HB3	2.25	0.52
1:B:136:GLU:OE1	1:B:137:PRO:HD2	2.10	0.52
1:H:130:LEU:HA	1:H:133:THR:OG1	2.09	0.51
1:G:177:THR:HA	1:G:180:GLN:NE2	2.25	0.51
1:I:177:THR:HA	1:I:180:GLN:CD	2.30	0.51
1:B:893:HIS:HA	1:B:917:TRP:CE3	2.44	0.51
1:A:390:LEU:HD22	1:A:426:LEU:HD13	1.92	0.51
1:I:859:TYR:CD1	1:I:889:CYS:HA	2.44	0.51
1:G:855:ILE:O	1:G:858:ASN:HB2	2.11	0.51
1:H:893:HIS:HA	1:H:917:TRP:CE3	2.45	0.51
1:K:781:LYS:HD3	1:K:810:TYR:HB3	1.92	0.51
1:I:990:VAL:O	1:I:993:LYS:HB2	2.09	0.51
1:A:990:VAL:O	1:A:993:LYS:HB2	2.09	0.51
1:I:572:SER:CB	1:I:602:LEU:HD11	2.39	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:572:SER:CB	1:F:602:LEU:HD11	2.39	0.51
1:B:366:PHE:HA	1:B:369:LEU:HD12	1.90	0.51
1:C:366:PHE:HA	1:C:369:LEU:HD12	1.90	0.51
1:K:490:LEU:O	1:K:494:THR:HG23	2.10	0.51
1:H:243:VAL:O	1:H:273:ASN:HB3	2.09	0.51
1:A:243:VAL:O	1:A:273:ASN:HB3	2.09	0.51
1:B:924:ILE:HG23	1:B:957:PHE:HB2	1.92	0.51
1:D:732:ILE:HD13	1:D:741:LEU:HD11	1.92	0.51
1:B:732:ILE:HD13	1:B:741:LEU:HD11	1.92	0.51
1:H:906:THR:O	1:H:909:LEU:HB2	2.11	0.51
1:J:906:THR:O	1:J:909:LEU:HB2	2.11	0.51
1:E:921:ASP:OD1	1:E:950:SER:OG	2.25	0.51
1:K:136:GLU:OE1	1:K:137:PRO:HD2	2.10	0.51
1:C:265:ILE:HG13	1:C:266:LYS:HG3	1.92	0.51
1:I:730:GLN:HA	1:I:730:GLN:OE1	2.10	0.51
1:H:985:ARG:O	1:H:988:SER:OG	2.19	0.51
1:G:402:PHE:HD1	1:G:487:TYR:CZ	2.28	0.51
1:K:402:PHE:HD1	1:K:487:TYR:CZ	2.28	0.51
1:H:859:TYR:CD1	1:H:889:CYS:HA	2.44	0.51
1:C:390:LEU:HD22	1:C:426:LEU:HD13	1.92	0.51
1:G:179:LEU:HA	1:G:182:ILE:HB	1.91	0.51
1:D:490:LEU:O	1:D:494:THR:HG23	2.10	0.51
1:G:247:LEU:HB3	1:G:278:THR:HG22	1.93	0.51
1:F:98:LEU:HD11	1:F:235:LEU:HD11	1.91	0.51
1:C:924:ILE:HG23	1:C:957:PHE:HB2	1.92	0.51
1:H:245:PHE:O	1:H:275:VAL:HG23	2.10	0.51
1:B:245:PHE:O	1:B:275:VAL:HG23	2.10	0.51
1:C:729:GLU:O	1:C:732:ILE:HB	2.10	0.51
1:K:732:ILE:HD13	1:K:741:LEU:HD11	1.92	0.51
1:I:906:THR:O	1:I:909:LEU:HB2	2.11	0.51
1:G:906:THR:O	1:G:909:LEU:HB2	2.11	0.51
1:J:848:ILE:HG13	1:J:880:GLU:HG3	1.92	0.51
1:K:730:GLN:HA	1:K:730:GLN:OE1	2.10	0.51
1:G:730:GLN:HA	1:G:730:GLN:OE1	2.10	0.51
1:B:999:GLU:OE2	1:B:1022:VAL:HG13	2.10	0.51
1:G:848:ILE:HG13	1:G:880:GLU:HG3	1.92	0.51
1:G:265:ILE:HG13	1:G:266:LYS:HG3	1.92	0.51
1:E:402:PHE:HD1	1:E:487:TYR:CZ	2.28	0.51
1:H:177:THR:HA	1:H:180:GLN:CD	2.30	0.51
1:J:177:THR:HA	1:J:180:GLN:NE2	2.25	0.51
1:B:855:ILE:O	1:B:858:ASN:HB2	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:390:LEU:HD22	1:G:426:LEU:HD13	1.92	0.51
1:E:374:ASN:CG	1:E:424:ILE:HG23	2.30	0.51
1:F:990:VAL:O	1:F:993:LYS:HB2	2.09	0.51
1:H:990:VAL:O	1:H:993:LYS:HB2	2.09	0.51
1:B:990:VAL:O	1:B:993:LYS:HB2	2.09	0.51
1:C:179:LEU:HA	1:C:182:ILE:HB	1.91	0.51
1:G:572:SER:CB	1:G:602:LEU:HD11	2.39	0.51
1:H:572:SER:CB	1:H:602:LEU:HD11	2.39	0.51
1:C:495:CYS:HB2	1:C:564:GLU:HG2	1.91	0.51
1:F:247:LEU:HB3	1:F:278:THR:HG22	1.93	0.51
1:A:906:THR:O	1:A:909:LEU:HB2	2.11	0.51
1:K:974:THR:HG21	1:K:977:PHE:CD1	2.44	0.51
1:B:265:ILE:HG13	1:B:266:LYS:HG3	1.92	0.51
1:C:560:ASN:O	1:C:563:SER:OG	2.19	0.51
1:K:999:GLU:OE2	1:K:1022:VAL:HG13	2.10	0.51
1:F:374:ASN:CG	1:F:424:ILE:HG23	2.30	0.51
1:H:781:LYS:HD3	1:H:810:TYR:HB3	1.92	0.51
1:D:990:VAL:O	1:D:993:LYS:HB2	2.09	0.51
1:H:179:LEU:HA	1:H:182:ILE:HB	1.91	0.51
1:C:666:LEU:HD12	1:C:694:ILE:HG23	1.93	0.51
1:E:666:LEU:HD12	1:E:694:ILE:HG23	1.93	0.51
1:C:490:LEU:O	1:C:494:THR:HG23	2.10	0.51
1:I:924:ILE:HG23	1:I:957:PHE:HB2	1.92	0.51
1:H:247:LEU:HB3	1:H:278:THR:HG22	1.93	0.51
1:B:243:VAL:O	1:B:273:ASN:HB3	2.09	0.51
1:A:245:PHE:O	1:A:275:VAL:HG23	2.10	0.51
1:H:729:GLU:O	1:H:732:ILE:HB	2.10	0.51
1:G:732:ILE:HD13	1:G:741:LEU:HD11	1.92	0.51
1:I:732:ILE:HD13	1:I:741:LEU:HD11	1.92	0.51
1:J:729:GLU:O	1:J:732:ILE:HB	2.10	0.51
1:F:906:THR:O	1:F:909:LEU:HB2	2.11	0.51
1:G:990:VAL:O	1:G:993:LYS:HB2	2.09	0.51
1:B:262:GLU:HA	1:B:265:ILE:HG12	1.92	0.51
1:I:265:ILE:HG13	1:I:266:LYS:N	2.26	0.51
1:K:848:ILE:HG13	1:K:880:GLU:HG3	1.92	0.51
1:I:560:ASN:O	1:I:563:SER:OG	2.19	0.51
1:E:999:GLU:OE2	1:E:1022:VAL:HG13	2.10	0.51
1:C:206:ARG:NH1	1:C:207:SER:HB3	2.25	0.51
1:A:262:GLU:HA	1:A:265:ILE:HG12	1.92	0.51
1:H:999:GLU:OE2	1:H:1022:VAL:HG13	2.10	0.51
1:K:177:THR:HA	1:K:180:GLN:CD	2.30	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:402:PHE:HD1	1:A:487:TYR:CZ	2.28	0.51
1:F:177:THR:HA	1:F:180:GLN:NE2	2.25	0.51
1:C:895:SER:O	1:C:898:LYS:HB2	2.11	0.51
1:B:374:ASN:CG	1:B:424:ILE:HG23	2.30	0.51
1:G:374:ASN:CG	1:G:424:ILE:HG23	2.30	0.51
1:D:390:LEU:HD22	1:D:426:LEU:HD13	1.92	0.51
1:I:895:SER:O	1:I:898:LYS:HB2	2.11	0.51
1:A:895:SER:O	1:A:898:LYS:HB2	2.11	0.51
1:F:390:LEU:HD22	1:F:426:LEU:HD13	1.92	0.51
1:K:179:LEU:HA	1:K:182:ILE:HB	1.91	0.51
1:H:666:LEU:HD12	1:H:694:ILE:HG23	1.93	0.51
1:I:490:LEU:O	1:I:494:THR:HG23	2.10	0.51
1:B:490:LEU:O	1:B:494:THR:HG23	2.10	0.51
1:J:247:LEU:HB3	1:J:278:THR:HG22	1.93	0.51
1:G:243:VAL:O	1:G:273:ASN:HB3	2.09	0.51
1:I:98:LEU:HD11	1:I:235:LEU:HD11	1.91	0.51
1:K:243:VAL:O	1:K:273:ASN:HB3	2.09	0.51
1:E:245:PHE:O	1:E:275:VAL:HG23	2.10	0.51
1:E:906:THR:O	1:E:909:LEU:HB2	2.11	0.51
1:A:265:ILE:HG13	1:A:266:LYS:N	2.26	0.51
1:I:999:GLU:OE2	1:I:1022:VAL:HG13	2.10	0.51
1:G:999:GLU:OE2	1:G:1022:VAL:HG13	2.10	0.51
1:H:265:ILE:HG13	1:H:266:LYS:N	2.26	0.51
1:B:116:ASN:HA	1:B:129:ASN:HA	1.92	0.51
1:G:116:ASN:HA	1:G:129:ASN:HA	1.92	0.51
1:H:374:ASN:CG	1:H:424:ILE:HG23	2.30	0.51
1:F:855:ILE:O	1:F:858:ASN:HB2	2.11	0.51
1:I:374:ASN:CG	1:I:424:ILE:HG23	2.30	0.51
1:K:855:ILE:O	1:K:858:ASN:HB2	2.11	0.51
1:I:666:LEU:HD12	1:I:694:ILE:HG23	1.93	0.51
1:D:533:SEP:N	1:D:536:SER:OG	2.44	0.51
1:F:666:LEU:HD12	1:F:694:ILE:HG23	1.93	0.51
1:E:247:LEU:HB3	1:E:278:THR:HG22	1.93	0.51
1:I:247:LEU:HB3	1:I:278:THR:HG22	1.93	0.51
1:C:906:THR:O	1:C:909:LEU:HB2	2.11	0.51
1:E:729:GLU:O	1:E:732:ILE:HB	2.10	0.51
1:K:729:GLU:O	1:K:732:ILE:HB	2.10	0.51
1:D:206:ARG:NH1	1:D:207:SER:HB3	2.25	0.51
1:F:848:ILE:HG13	1:F:880:GLU:HG3	1.92	0.51
1:A:116:ASN:HA	1:A:129:ASN:HA	1.92	0.51
1:D:177:THR:HA	1:D:180:GLN:CD	2.30	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:177:THR:HA	1:C:180:GLN:NE2	2.25	0.51
1:E:895:SER:O	1:E:898:LYS:HB2	2.11	0.51
1:H:855:ILE:O	1:H:858:ASN:HB2	2.11	0.51
1:H:410:PRO:HG2	1:H:416:MET:SD	2.51	0.51
1:I:781:LYS:HD3	1:I:810:TYR:HB3	1.92	0.51
1:K:666:LEU:HD12	1:K:694:ILE:HG23	1.93	0.51
1:I:533:SEP:N	1:I:536:SER:OG	2.44	0.51
1:J:666:LEU:HD12	1:J:694:ILE:HG23	1.93	0.51
1:G:666:LEU:HD12	1:G:694:ILE:HG23	1.93	0.51
1:E:533:SEP:N	1:E:536:SER:OG	2.44	0.51
1:F:1016:LYS:HD2	1:F:1021:LEU:HD13	1.92	0.51
1:G:98:LEU:HD11	1:G:235:LEU:HD11	1.91	0.51
1:K:245:PHE:O	1:K:275:VAL:HG23	2.10	0.51
1:C:262:GLU:HA	1:C:265:ILE:HG12	1.92	0.51
1:K:265:ILE:HG13	1:K:266:LYS:HG3	1.92	0.51
1:D:265:ILE:HG13	1:D:266:LYS:HG3	1.92	0.51
1:D:855:ILE:O	1:D:858:ASN:HB2	2.11	0.51
1:K:390:LEU:HD22	1:K:426:LEU:HD13	1.92	0.51
1:F:410:PRO:HG2	1:F:416:MET:SD	2.51	0.51
1:J:410:PRO:HG2	1:J:416:MET:SD	2.51	0.51
1:G:781:LYS:HD3	1:G:810:TYR:HB3	1.92	0.51
1:B:666:LEU:HD12	1:B:694:ILE:HG23	1.93	0.51
1:D:666:LEU:HD12	1:D:694:ILE:HG23	1.93	0.51
1:J:243:VAL:O	1:J:273:ASN:HB3	2.09	0.51
1:I:245:PHE:O	1:I:275:VAL:HG23	2.10	0.51
1:F:245:PHE:O	1:F:275:VAL:HG23	2.10	0.51
1:G:729:GLU:O	1:G:732:ILE:HB	2.10	0.51
1:B:906:THR:O	1:B:909:LEU:HB2	2.11	0.51
1:I:848:ILE:CG1	1:I:880:GLU:HG3	2.41	0.51
1:I:265:ILE:HG13	1:I:266:LYS:HG3	1.92	0.51
1:K:848:ILE:CG1	1:K:880:GLU:HG3	2.41	0.51
1:H:262:GLU:HA	1:H:265:ILE:HG12	1.92	0.51
1:J:506:MET:SD	1:J:509:LEU:HD12	2.51	0.51
1:K:506:MET:SD	1:K:509:LEU:HD12	2.51	0.51
1:C:116:ASN:HA	1:C:129:ASN:HA	1.92	0.51
1:A:855:ILE:O	1:A:858:ASN:HB2	2.11	0.51
1:G:895:SER:O	1:G:898:LYS:HB2	2.11	0.51
1:I:410:PRO:HG2	1:I:416:MET:SD	2.51	0.51
1:J:203:ILE:O	1:J:248:ASP:N	2.40	0.51
1:J:533:SEP:N	1:J:536:SER:OG	2.44	0.51
1:C:533:SEP:N	1:C:536:SER:OG	2.44	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:247:LEU:HB3	1:K:278:THR:HG22	1.93	0.51
1:E:1016:LYS:HD2	1:E:1021:LEU:HD13	1.93	0.51
1:G:924:ILE:HG23	1:G:957:PHE:HB2	1.92	0.51
1:D:245:PHE:O	1:D:275:VAL:HG23	2.10	0.51
1:A:1016:LYS:HD2	1:A:1021:LEU:HD13	1.92	0.51
1:C:732:ILE:HD13	1:C:741:LEU:HD11	1.92	0.51
1:A:921:ASP:OD1	1:A:950:SER:OG	2.25	0.51
1:B:788:ARG:O	1:B:791:LYS:HG3	2.11	0.51
1:C:788:ARG:O	1:C:791:LYS:HG3	2.11	0.51
1:A:265:ILE:HG13	1:A:266:LYS:HG3	1.92	0.51
1:A:506:MET:SD	1:A:509:LEU:HD12	2.51	0.51
1:J:265:ILE:HG13	1:J:266:LYS:N	2.26	0.51
1:G:214:GLU:O	1:G:218:ASP:N	2.31	0.51
1:H:136:GLU:OE1	1:H:137:PRO:HD2	2.10	0.51
1:F:265:ILE:HG13	1:F:266:LYS:N	2.26	0.51
1:A:999:GLU:OE2	1:A:1022:VAL:HG13	2.10	0.51
1:I:506:MET:SD	1:I:509:LEU:HD12	2.51	0.51
1:D:136:GLU:OE1	1:D:137:PRO:HD2	2.10	0.51
1:I:116:ASN:HA	1:I:129:ASN:HA	1.92	0.51
1:I:177:THR:HA	1:I:180:GLN:NE2	2.25	0.51
1:H:390:LEU:HD22	1:H:426:LEU:HD13	1.92	0.51
1:J:895:SER:O	1:J:898:LYS:HB2	2.11	0.51
1:I:179:LEU:HA	1:I:182:ILE:HB	1.91	0.51
1:A:666:LEU:HD12	1:A:694:ILE:HG23	1.93	0.51
1:H:533:SEP:N	1:H:536:SER:OG	2.44	0.51
1:G:490:LEU:O	1:G:494:THR:HG23	2.10	0.51
1:E:490:LEU:O	1:E:494:THR:HG23	2.10	0.51
1:I:825:MET:N	1:I:852:ILE:O	2.40	0.51
1:J:480:ILE:O	1:J:482:ASP:N	2.44	0.51
1:K:480:ILE:O	1:K:482:ASP:N	2.44	0.51
1:K:1016:LYS:HD2	1:K:1021:LEU:HD13	1.92	0.51
1:C:921:ASP:OD1	1:C:950:SER:OG	2.25	0.51
1:D:788:ARG:O	1:D:791:LYS:HG3	2.11	0.51
1:E:265:ILE:HG13	1:E:266:LYS:N	2.26	0.51
1:G:848:ILE:CG1	1:G:880:GLU:HG3	2.41	0.51
1:K:262:GLU:HA	1:K:265:ILE:HG12	1.93	0.51
1:K:265:ILE:HG13	1:K:266:LYS:N	2.26	0.51
1:D:262:GLU:HA	1:D:265:ILE:HG12	1.92	0.51
1:F:262:GLU:HA	1:F:265:ILE:HG12	1.92	0.51
1:F:999:GLU:OE2	1:F:1022:VAL:HG13	2.10	0.51
1:A:848:ILE:HG13	1:A:880:GLU:HG3	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:730:GLN:HA	1:E:730:GLN:OE1	2.10	0.51
1:H:730:GLN:OE1	1:H:730:GLN:HA	2.10	0.51
1:C:649:VAL:O	1:C:652:PHE:N	2.41	0.51
1:E:848:ILE:HG13	1:E:880:GLU:HG3	1.92	0.51
1:G:594:TYR:O	1:G:597:ASP:HB2	2.11	0.51
1:H:177:THR:HA	1:H:180:GLN:NE2	2.25	0.50
1:I:855:ILE:O	1:I:858:ASN:HB2	2.11	0.50
1:H:895:SER:O	1:H:898:LYS:HB2	2.11	0.50
1:J:855:ILE:O	1:J:858:ASN:HB2	2.11	0.50
1:A:410:PRO:HG2	1:A:416:MET:SD	2.51	0.50
1:C:203:ILE:O	1:C:248:ASP:N	2.40	0.50
1:K:533:SEP:N	1:K:536:SER:OG	2.44	0.50
1:B:533:SEP:N	1:B:536:SER:OG	2.44	0.50
1:D:1016:LYS:HD2	1:D:1021:LEU:HD13	1.92	0.50
1:C:245:PHE:O	1:C:275:VAL:HG23	2.10	0.50
1:A:652:PHE:CE2	1:A:683:ILE:HG23	2.46	0.50
1:C:265:ILE:HG13	1:C:266:LYS:N	2.26	0.50
1:J:848:ILE:CG1	1:J:880:GLU:HG3	2.41	0.50
1:G:262:GLU:HA	1:G:265:ILE:HG12	1.92	0.50
1:F:136:GLU:OE1	1:F:137:PRO:HD2	2.10	0.50
1:A:136:GLU:OE1	1:A:137:PRO:HD2	2.10	0.50
1:J:999:GLU:OE2	1:J:1022:VAL:HG13	2.10	0.50
1:D:116:ASN:HA	1:D:129:ASN:HA	1.92	0.50
1:C:855:ILE:O	1:C:858:ASN:HB2	2.11	0.50
1:F:895:SER:O	1:F:898:LYS:HB2	2.11	0.50
1:D:410:PRO:HG2	1:D:416:MET:SD	2.51	0.50
1:J:781:LYS:HD3	1:J:810:TYR:HB3	1.92	0.50
1:E:781:LYS:HD3	1:E:810:TYR:HB3	1.92	0.50
1:A:490:LEU:O	1:A:494:THR:HG23	2.10	0.50
1:D:247:LEU:HB3	1:D:278:THR:HG22	1.93	0.50
1:G:1016:LYS:HD2	1:G:1021:LEU:HD13	1.93	0.50
1:A:788:ARG:O	1:A:791:LYS:HG3	2.11	0.50
1:E:594:TYR:O	1:E:597:ASP:HB2	2.11	0.50
1:C:848:ILE:HG13	1:C:880:GLU:HG3	1.92	0.50
1:K:144:HIS:HB3	1:A:128:PHE:CE1	2.46	0.50
1:K:364:GLN:HB2	1:K:449:TYR:CE2	2.47	0.50
1:E:390:LEU:HD22	1:E:426:LEU:HD13	1.92	0.50
1:C:364:GLN:HB2	1:C:449:TYR:CE2	2.47	0.50
1:A:533:SEP:N	1:A:536:SER:OG	2.44	0.50
1:F:533:SEP:N	1:F:536:SER:OG	2.44	0.50
1:J:1016:LYS:HD2	1:J:1021:LEU:HD13	1.92	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:480:ILE:O	1:E:482:ASP:N	2.44	0.50
1:I:729:GLU:O	1:I:732:ILE:HB	2.10	0.50
1:I:480:ILE:O	1:I:482:ASP:N	2.44	0.50
1:D:652:PHE:CE2	1:D:683:ILE:HG23	2.46	0.50
1:H:848:ILE:CG1	1:H:880:GLU:HG3	2.41	0.50
1:I:594:TYR:O	1:I:597:ASP:HB2	2.11	0.50
1:J:128:PHE:CG	1:J:129:ASN:N	2.80	0.50
1:F:128:PHE:CG	1:F:129:ASN:N	2.80	0.50
1:A:364:GLN:HB2	1:A:449:TYR:CE2	2.47	0.50
1:G:364:GLN:HB2	1:G:449:TYR:CE2	2.47	0.50
1:J:364:GLN:HB2	1:J:449:TYR:CE2	2.47	0.50
1:I:364:GLN:HA	1:I:367:TYR:CD2	2.32	0.50
1:C:781:LYS:HD3	1:C:810:TYR:HB3	1.92	0.50
1:A:247:LEU:HB3	1:A:278:THR:HG22	1.93	0.50
1:C:247:LEU:HB3	1:C:278:THR:HG22	1.93	0.50
1:E:732:ILE:HD13	1:E:741:LEU:HD11	1.92	0.50
1:J:532:GLU:OE1	1:J:744:HIS:ND1	2.41	0.50
1:E:788:ARG:O	1:E:791:LYS:HG3	2.11	0.50
1:J:262:GLU:HA	1:J:265:ILE:HG12	1.92	0.50
1:C:652:PHE:CE2	1:C:683:ILE:HG23	2.46	0.50
1:J:730:GLN:HA	1:J:730:GLN:OE1	2.11	0.50
1:C:594:TYR:O	1:C:597:ASP:HB2	2.11	0.50
1:G:336:LYS:HB2	1:G:443:HIS:HE2	1.75	0.50
1:H:116:ASN:HA	1:H:129:ASN:HA	1.92	0.50
1:H:128:PHE:CG	1:H:129:ASN:N	2.80	0.50
1:I:128:PHE:CG	1:I:129:ASN:N	2.80	0.50
1:J:390:LEU:HD22	1:J:426:LEU:HD13	1.92	0.50
1:I:364:GLN:HB2	1:I:449:TYR:CE2	2.47	0.50
1:G:410:PRO:HD3	1:G:437:PRO:HG2	1.93	0.50
1:K:410:PRO:HG2	1:K:416:MET:SD	2.51	0.50
1:F:364:GLN:HB2	1:F:449:TYR:CE2	2.47	0.50
1:C:388:ARG:O	1:C:392:TYR:N	2.45	0.50
1:J:825:MET:N	1:J:852:ILE:O	2.40	0.50
1:B:1016:LYS:HD2	1:B:1021:LEU:HD13	1.93	0.50
1:K:825:MET:N	1:K:852:ILE:O	2.40	0.50
1:H:480:ILE:O	1:H:482:ASP:N	2.44	0.50
1:H:788:ARG:O	1:H:791:LYS:HG3	2.11	0.50
1:B:265:ILE:HG13	1:B:266:LYS:N	2.26	0.50
1:I:262:GLU:HA	1:I:265:ILE:HG12	1.92	0.50
1:A:848:ILE:CG1	1:A:880:GLU:HG3	2.41	0.50
1:K:652:PHE:CE2	1:K:683:ILE:HG23	2.46	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:848:ILE:HG13	1:D:880:GLU:HG3	1.92	0.50
1:K:177:THR:HA	1:K:180:GLN:NE2	2.25	0.50
1:E:855:ILE:O	1:E:858:ASN:HB2	2.11	0.50
1:E:364:GLN:HA	1:E:367:TYR:CD2	2.32	0.50
1:A:781:LYS:HD3	1:A:810:TYR:HB3	1.92	0.50
1:F:410:PRO:HD3	1:F:437:PRO:HG2	1.93	0.50
1:D:409:GLU:HG3	1:D:436:LYS:HB2	1.94	0.50
1:B:410:PRO:HG2	1:B:416:MET:SD	2.51	0.50
1:B:247:LEU:HB3	1:B:278:THR:HG22	1.93	0.50
1:A:480:ILE:O	1:A:482:ASP:N	2.44	0.50
1:K:921:ASP:OD1	1:K:950:SER:OG	2.25	0.50
1:F:265:ILE:HG13	1:F:266:LYS:HG3	1.92	0.50
1:F:730:GLN:HA	1:F:730:GLN:OE1	2.10	0.50
1:B:594:TYR:O	1:B:597:ASP:HB2	2.11	0.50
1:H:506:MET:SD	1:H:509:LEU:HD12	2.51	0.50
1:B:506:MET:SD	1:B:509:LEU:HD12	2.51	0.50
1:K:116:ASN:HA	1:K:129:ASN:HA	1.92	0.50
1:E:116:ASN:HA	1:E:129:ASN:HA	1.92	0.50
1:D:895:SER:O	1:D:898:LYS:HB2	2.11	0.50
1:I:388:ARG:O	1:I:392:TYR:N	2.45	0.50
1:C:1016:LYS:HD2	1:C:1021:LEU:HD13	1.92	0.50
1:H:1016:LYS:HD2	1:H:1021:LEU:HD13	1.92	0.50
1:I:652:PHE:CE2	1:I:683:ILE:HG23	2.46	0.50
1:G:652:PHE:CE2	1:G:683:ILE:HG23	2.46	0.50
1:E:652:PHE:CE2	1:E:683:ILE:HG23	2.46	0.50
1:F:848:ILE:CG1	1:F:880:GLU:HG3	2.41	0.50
1:J:265:ILE:HG13	1:J:266:LYS:HG3	1.92	0.50
1:K:649:VAL:O	1:K:652:PHE:N	2.41	0.50
1:F:217:TYR:O	1:F:221:LEU:HG	2.12	0.50
1:C:730:GLN:HA	1:C:730:GLN:OE1	2.11	0.50
1:B:848:ILE:HG13	1:B:880:GLU:HG3	1.92	0.50
1:E:506:MET:SD	1:E:509:LEU:HD12	2.51	0.50
1:C:506:MET:SD	1:C:509:LEU:HD12	2.51	0.50
1:F:954:TRP:CZ2	1:F:972:PHE:HB3	2.47	0.50
1:J:116:ASN:HA	1:J:129:ASN:HA	1.92	0.50
1:H:364:GLN:HB2	1:H:449:TYR:CE2	2.47	0.50
1:E:435:LEU:HD12	1:E:436:LYS:N	2.27	0.50
1:D:410:PRO:HD3	1:D:437:PRO:HG2	1.93	0.50
1:C:410:PRO:HD3	1:C:437:PRO:HG2	1.93	0.50
1:C:410:PRO:HG2	1:C:416:MET:SD	2.51	0.50
1:C:409:GLU:HG3	1:C:436:LYS:HB2	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:533:SEP:N	1:G:536:SER:OG	2.44	0.50
1:D:741:LEU:HD21	1:D:755:LEU:HD21	1.94	0.50
1:A:741:LEU:HD21	1:A:755:LEU:HD21	1.94	0.50
1:B:652:PHE:CE2	1:B:683:ILE:HG23	2.46	0.50
1:H:265:ILE:HG13	1:H:266:LYS:HG3	1.92	0.50
1:D:265:ILE:HG13	1:D:266:LYS:N	2.26	0.50
1:D:999:GLU:OE2	1:D:1022:VAL:HG13	2.10	0.50
1:A:730:GLN:OE1	1:A:730:GLN:HA	2.10	0.50
1:B:730:GLN:HA	1:B:730:GLN:OE1	2.10	0.50
1:D:217:TYR:O	1:D:221:LEU:HG	2.12	0.50
1:E:128:PHE:CG	1:E:129:ASN:N	2.80	0.50
1:B:364:GLN:HB2	1:B:449:TYR:CE2	2.47	0.50
1:D:364:GLN:HB2	1:D:449:TYR:CE2	2.47	0.50
1:G:410:PRO:HG2	1:G:416:MET:SD	2.51	0.50
1:B:388:ARG:O	1:B:392:TYR:N	2.45	0.50
1:J:388:ARG:O	1:J:392:TYR:N	2.45	0.50
1:I:1016:LYS:HD2	1:I:1021:LEU:HD13	1.92	0.50
1:C:480:ILE:O	1:C:482:ASP:N	2.44	0.50
1:D:906:THR:O	1:D:909:LEU:HB2	2.11	0.50
1:J:788:ARG:O	1:J:791:LYS:HG3	2.11	0.50
1:D:506:MET:SD	1:D:509:LEU:HD12	2.51	0.50
1:C:208:ALA:O	1:C:257:ASN:ND2	2.45	0.50
1:B:827:LEU:HD13	1:B:832:LEU:HD13	1.94	0.50
1:D:730:GLN:HA	1:D:730:GLN:OE1	2.10	0.50
1:E:208:ALA:O	1:E:257:ASN:ND2	2.45	0.50
1:G:506:MET:SD	1:G:509:LEU:HD12	2.51	0.50
1:J:827:LEU:HD13	1:J:832:LEU:HD13	1.94	0.50
1:F:166:LEU:HD21	1:F:291:GLY:H	1.77	0.50
1:H:217:TYR:O	1:H:221:LEU:HG	2.12	0.50
1:D:594:TYR:O	1:D:597:ASP:HB2	2.11	0.50
1:B:166:LEU:HD21	1:B:291:GLY:H	1.77	0.50
1:K:128:PHE:CG	1:K:129:ASN:N	2.80	0.49
1:G:128:PHE:CG	1:G:129:ASN:N	2.80	0.49
1:H:410:PRO:HD3	1:H:437:PRO:HG2	1.93	0.49
1:E:410:PRO:HD3	1:E:437:PRO:HG2	1.93	0.49
1:E:430:TYR:O	1:E:435:LEU:HD13	2.12	0.49
1:F:480:ILE:O	1:F:482:ASP:N	2.44	0.49
1:C:741:LEU:HD21	1:C:755:LEU:HD21	1.94	0.49
1:F:741:LEU:HD21	1:F:755:LEU:HD21	1.94	0.49
1:F:532:GLU:OE1	1:F:744:HIS:ND1	2.41	0.49
1:E:262:GLU:HA	1:E:265:ILE:HG12	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:848:ILE:CG1	1:D:880:GLU:HG3	2.41	0.49
1:A:827:LEU:HD13	1:A:832:LEU:HD13	1.94	0.49
1:C:524:THR:OG1	1:C:530:ARG:NH1	2.28	0.49
1:F:594:TYR:O	1:F:597:ASP:HB2	2.11	0.49
1:D:208:ALA:O	1:D:257:ASN:ND2	2.45	0.49
1:B:217:TYR:O	1:B:221:LEU:HG	2.12	0.49
1:K:827:LEU:HD13	1:K:832:LEU:HD13	1.94	0.49
1:G:208:ALA:O	1:G:257:ASN:ND2	2.45	0.49
1:H:208:ALA:O	1:H:257:ASN:ND2	2.45	0.49
1:B:128:PHE:CG	1:B:129:ASN:N	2.80	0.49
1:B:895:SER:O	1:B:898:LYS:HB2	2.11	0.49
1:H:892:VAL:O	1:H:895:SER:OG	2.15	0.49
1:K:895:SER:O	1:K:898:LYS:HB2	2.11	0.49
1:E:410:PRO:HG2	1:E:416:MET:SD	2.51	0.49
1:F:430:TYR:O	1:F:435:LEU:HD13	2.12	0.49
1:J:431:THR:HA	1:J:435:LEU:HD22	1.94	0.49
1:B:410:PRO:HD3	1:B:437:PRO:HG2	1.93	0.49
1:K:388:ARG:O	1:K:392:TYR:N	2.45	0.49
1:K:269:HIS:CD2	1:K:270:ARG:HG3	2.48	0.49
1:F:652:PHE:CE2	1:F:683:ILE:HG23	2.46	0.49
1:I:788:ARG:O	1:I:791:LYS:HG3	2.11	0.49
1:I:208:ALA:O	1:I:257:ASN:ND2	2.45	0.49
1:F:208:ALA:O	1:F:257:ASN:ND2	2.45	0.49
1:K:125:ASP:H	1:J:433:GLN:CG	2.13	0.49
1:A:128:PHE:CG	1:A:129:ASN:N	2.80	0.49
1:D:914:LEU:HD11	1:D:927:LEU:HD13	1.94	0.49
1:I:390:LEU:HD22	1:I:426:LEU:HD13	1.92	0.49
1:I:431:THR:HA	1:I:435:LEU:HD22	1.94	0.49
1:F:435:LEU:HD12	1:F:436:LYS:N	2.27	0.49
1:D:435:LEU:HD12	1:D:436:LYS:N	2.27	0.49
1:K:431:THR:HA	1:K:435:LEU:HD22	1.94	0.49
1:C:435:LEU:HD12	1:C:436:LYS:N	2.27	0.49
1:A:388:ARG:O	1:A:392:TYR:N	2.45	0.49
1:G:175:LYS:HE2	1:G:278:THR:HA	1.94	0.49
1:I:175:LYS:HE2	1:I:278:THR:HA	1.94	0.49
1:B:269:HIS:CD2	1:B:270:ARG:HG3	2.48	0.49
1:I:741:LEU:O	1:I:768:LEU:HD12	2.13	0.49
1:J:741:LEU:O	1:J:768:LEU:HD12	2.13	0.49
1:K:741:LEU:O	1:K:768:LEU:HD12	2.13	0.49
1:G:921:ASP:OD1	1:G:950:SER:OG	2.25	0.49
1:G:265:ILE:HG13	1:G:266:LYS:N	2.26	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:166:LEU:HD21	1:G:291:GLY:H	1.77	0.49
1:A:594:TYR:O	1:A:597:ASP:HB2	2.11	0.49
1:G:954:TRP:CZ2	1:G:972:PHE:HB3	2.47	0.49
1:I:954:TRP:CZ2	1:I:972:PHE:HB3	2.47	0.49
1:J:208:ALA:O	1:J:257:ASN:ND2	2.45	0.49
1:E:914:LEU:HD11	1:E:927:LEU:HD13	1.94	0.49
1:B:914:LEU:HD11	1:B:927:LEU:HD13	1.94	0.49
1:E:409:GLU:HG3	1:E:436:LYS:HB2	1.94	0.49
1:K:430:TYR:O	1:K:435:LEU:HD13	2.12	0.49
1:B:409:GLU:HG3	1:B:436:LYS:HB2	1.94	0.49
1:K:572:SER:CB	1:K:602:LEU:HD11	2.39	0.49
1:I:797:HIS:CG	1:I:826:LYS:HB3	2.48	0.49
1:H:825:MET:N	1:H:852:ILE:O	2.40	0.49
1:B:480:ILE:O	1:B:482:ASP:N	2.44	0.49
1:H:741:LEU:O	1:H:768:LEU:HD12	2.13	0.49
1:B:741:LEU:HD21	1:B:755:LEU:HD21	1.94	0.49
1:H:524:THR:CB	1:H:530:ARG:HH12	2.25	0.49
1:J:652:PHE:CE2	1:J:683:ILE:HG23	2.46	0.49
1:C:848:ILE:CG1	1:C:880:GLU:HG3	2.41	0.49
1:K:594:TYR:O	1:K:597:ASP:HB2	2.11	0.49
1:B:208:ALA:O	1:B:257:ASN:ND2	2.45	0.49
1:H:594:TYR:O	1:H:597:ASP:HB2	2.11	0.49
1:C:166:LEU:HD21	1:C:291:GLY:H	1.77	0.49
1:A:954:TRP:CZ2	1:A:972:PHE:HB3	2.47	0.49
1:K:208:ALA:O	1:K:257:ASN:ND2	2.45	0.49
1:C:128:PHE:CG	1:C:129:ASN:N	2.80	0.49
1:C:914:LEU:HD11	1:C:927:LEU:HD13	1.94	0.49
1:J:370:LEU:HD13	1:J:426:LEU:HG	1.95	0.49
1:I:370:LEU:HD13	1:I:426:LEU:HG	1.94	0.49
1:H:431:THR:HA	1:H:435:LEU:HD22	1.94	0.49
1:G:430:TYR:O	1:G:435:LEU:HD13	2.12	0.49
1:I:430:TYR:O	1:I:435:LEU:HD13	2.12	0.49
1:A:409:GLU:HG3	1:A:436:LYS:HB2	1.94	0.49
1:E:797:HIS:CG	1:E:826:LYS:HB3	2.48	0.49
1:K:217:TYR:O	1:K:221:LEU:HG	2.12	0.49
1:J:741:LEU:HD21	1:J:755:LEU:HD21	1.94	0.49
1:A:741:LEU:O	1:A:768:LEU:HD12	2.13	0.49
1:C:532:GLU:OE1	1:C:744:HIS:ND1	2.41	0.49
1:K:788:ARG:O	1:K:791:LYS:HG3	2.11	0.49
1:G:788:ARG:O	1:G:791:LYS:HG3	2.11	0.49
1:A:217:TYR:O	1:A:221:LEU:HG	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:217:TYR:O	1:G:221:LEU:HG	2.12	0.49
1:K:370:LEU:HD13	1:K:426:LEU:HG	1.95	0.49
1:H:435:LEU:HD12	1:H:436:LYS:N	2.27	0.49
1:I:409:GLU:HG3	1:I:436:LYS:HB2	1.94	0.49
1:I:410:PRO:HD3	1:I:437:PRO:HG2	1.93	0.49
1:F:409:GLU:HG3	1:F:436:LYS:HB2	1.94	0.49
1:D:430:TYR:O	1:D:435:LEU:HD13	2.12	0.49
1:A:431:THR:HA	1:A:435:LEU:HD22	1.94	0.49
1:B:797:HIS:CG	1:B:826:LYS:HB3	2.48	0.49
1:F:797:HIS:CG	1:F:826:LYS:HB3	2.48	0.49
1:H:175:LYS:HE2	1:H:278:THR:HA	1.94	0.49
1:D:741:LEU:O	1:D:768:LEU:HD12	2.13	0.49
1:C:741:LEU:O	1:C:768:LEU:HD12	2.13	0.49
1:E:741:LEU:O	1:E:768:LEU:HD12	2.13	0.49
1:F:741:LEU:O	1:F:768:LEU:HD12	2.13	0.49
1:G:741:LEU:O	1:G:768:LEU:HD12	2.13	0.49
1:B:741:LEU:O	1:B:768:LEU:HD12	2.13	0.49
1:F:788:ARG:O	1:F:791:LYS:HG3	2.11	0.49
1:C:524:THR:CB	1:C:530:ARG:HH12	2.25	0.49
1:C:827:LEU:HD13	1:C:832:LEU:HD13	1.94	0.49
1:C:217:TYR:O	1:C:221:LEU:HG	2.12	0.49
1:A:208:ALA:O	1:A:257:ASN:ND2	2.45	0.49
1:F:506:MET:SD	1:F:509:LEU:HD12	2.51	0.49
1:J:594:TYR:O	1:J:597:ASP:HB2	2.11	0.49
1:F:116:ASN:HA	1:F:129:ASN:HA	1.92	0.49
1:D:892:VAL:O	1:D:895:SER:OG	2.15	0.49
1:A:914:LEU:HD11	1:A:927:LEU:HD13	1.94	0.49
1:G:435:LEU:HD12	1:G:436:LYS:N	2.27	0.49
1:K:410:PRO:HD3	1:K:437:PRO:HG2	1.93	0.49
1:C:427:LEU:HD12	1:C:438:THR:C	2.33	0.49
1:A:572:SER:CB	1:A:602:LEU:HD11	2.39	0.49
1:J:797:HIS:CG	1:J:826:LYS:HB3	2.48	0.49
1:D:480:ILE:O	1:D:482:ASP:N	2.44	0.49
1:A:825:MET:N	1:A:852:ILE:O	2.40	0.49
1:G:480:ILE:O	1:G:482:ASP:N	2.44	0.49
1:E:954:TRP:CZ2	1:E:972:PHE:HB3	2.47	0.49
1:H:560:ASN:O	1:H:563:SER:OG	2.19	0.49
1:B:560:ASN:O	1:B:563:SER:OG	2.19	0.49
1:I:217:TYR:O	1:I:221:LEU:HG	2.12	0.49
1:J:217:TYR:O	1:J:221:LEU:HG	2.12	0.49
1:K:954:TRP:CZ2	1:K:972:PHE:HB3	2.47	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:865:ASN:N	1:B:889:CYS:SG	2.86	0.49
1:E:364:GLN:HB2	1:E:449:TYR:CE2	2.47	0.49
1:G:914:LEU:O	1:G:917:TRP:HB2	2.13	0.49
1:J:410:PRO:HD3	1:J:437:PRO:HG2	1.93	0.49
1:A:410:PRO:HD3	1:A:437:PRO:HG2	1.93	0.49
1:B:203:ILE:O	1:B:248:ASP:N	2.40	0.49
1:C:269:HIS:CD2	1:C:270:ARG:HG3	2.48	0.49
1:H:741:LEU:HD21	1:H:755:LEU:HD21	1.94	0.49
1:H:652:PHE:CE2	1:H:683:ILE:HG23	2.46	0.49
1:J:821:ASP:O	1:J:823:GLN:NE2	2.46	0.49
1:I:532:GLU:OE1	1:I:744:HIS:ND1	2.41	0.49
1:D:827:LEU:HD13	1:D:832:LEU:HD13	1.94	0.49
1:H:954:TRP:CZ2	1:H:972:PHE:HB3	2.47	0.49
1:J:954:TRP:CZ2	1:J:972:PHE:HB3	2.47	0.49
1:C:954:TRP:CZ2	1:C:972:PHE:HB3	2.47	0.49
1:H:370:LEU:HD13	1:H:426:LEU:HG	1.95	0.49
1:E:914:LEU:O	1:E:917:TRP:HB2	2.13	0.49
1:K:370:LEU:HA	1:K:370:LEU:HD23	1.66	0.49
1:A:370:LEU:HD13	1:A:426:LEU:HG	1.94	0.49
1:G:364:GLN:HA	1:G:367:TYR:CD2	2.32	0.49
1:K:427:LEU:HD12	1:K:438:THR:C	2.33	0.49
1:B:431:THR:HA	1:B:435:LEU:HD22	1.94	0.49
1:F:175:LYS:HE2	1:F:278:THR:HA	1.94	0.49
1:I:269:HIS:CD2	1:I:270:ARG:HG3	2.48	0.49
1:D:524:THR:CB	1:D:530:ARG:HH12	2.25	0.49
1:K:821:ASP:O	1:K:823:GLN:NE2	2.46	0.49
1:I:524:THR:CB	1:I:530:ARG:HH12	2.25	0.49
1:I:821:ASP:O	1:I:823:GLN:NE2	2.46	0.49
1:E:166:LEU:HD21	1:E:291:GLY:H	1.77	0.49
1:A:166:LEU:HD21	1:A:291:GLY:H	1.77	0.49
1:B:524:THR:CB	1:B:530:ARG:HH12	2.25	0.49
1:K:125:ASP:OD2	1:J:144:HIS:NE2	2.45	0.49
1:I:865:ASN:N	1:I:889:CYS:SG	2.86	0.49
1:B:175:LYS:HE2	1:B:278:THR:HA	1.94	0.49
1:G:797:HIS:CG	1:G:826:LYS:HB3	2.47	0.49
1:H:797:HIS:CG	1:H:826:LYS:HB3	2.48	0.49
1:E:741:LEU:HD21	1:E:755:LEU:HD21	1.94	0.49
1:H:821:ASP:O	1:H:823:GLN:NE2	2.46	0.49
1:G:532:GLU:OE1	1:G:744:HIS:ND1	2.41	0.49
1:K:524:THR:CB	1:K:530:ARG:HH12	2.25	0.49
1:H:985:ARG:HB2	1:H:1012:ILE:HD13	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:848:ILE:CG1	1:B:880:GLU:HG3	2.41	0.49
1:A:798:LEU:HB2	1:A:808:MET:HE3	1.95	0.48
1:A:430:TYR:O	1:A:435:LEU:HD13	2.12	0.48
1:A:435:LEU:HD12	1:A:436:LYS:N	2.27	0.48
1:B:435:LEU:HD12	1:B:436:LYS:N	2.28	0.48
1:D:797:HIS:CG	1:D:826:LYS:HB3	2.48	0.48
1:C:797:HIS:CG	1:C:826:LYS:HB3	2.48	0.48
1:C:175:LYS:HE2	1:C:278:THR:HA	1.94	0.48
1:I:985:ARG:HB2	1:I:1012:ILE:HD13	1.95	0.48
1:H:827:LEU:HD13	1:H:832:LEU:HD13	1.94	0.48
1:D:166:LEU:HD21	1:D:291:GLY:H	1.77	0.48
1:B:954:TRP:CZ2	1:B:972:PHE:HB3	2.47	0.48
1:D:954:TRP:CZ2	1:D:972:PHE:HB3	2.47	0.48
1:D:431:THR:HA	1:D:435:LEU:HD22	1.94	0.48
1:K:409:GLU:HG3	1:K:436:LYS:HB2	1.94	0.48
1:H:448:GLU:OE1	1:H:493:TYR:OH	2.17	0.48
1:K:175:LYS:HE2	1:K:278:THR:HA	1.94	0.48
1:A:175:LYS:HE2	1:A:278:THR:HA	1.94	0.48
1:J:175:LYS:HE2	1:J:278:THR:HA	1.94	0.48
1:D:175:LYS:HE2	1:D:278:THR:HA	1.94	0.48
1:K:797:HIS:CG	1:K:826:LYS:HB3	2.48	0.48
1:G:269:HIS:CD2	1:G:270:ARG:HG3	2.48	0.48
1:H:269:HIS:CD2	1:H:270:ARG:HG3	2.48	0.48
1:E:269:HIS:CD2	1:E:270:ARG:HG3	2.48	0.48
1:G:821:ASP:O	1:G:823:GLN:NE2	2.46	0.48
1:J:985:ARG:HB2	1:J:1012:ILE:HD13	1.95	0.48
1:J:166:LEU:HD21	1:J:291:GLY:H	1.77	0.48
1:H:166:LEU:HD21	1:H:291:GLY:H	1.77	0.48
1:I:827:LEU:HD13	1:I:832:LEU:HD13	1.94	0.48
1:I:166:LEU:HD21	1:I:291:GLY:H	1.77	0.48
1:K:985:ARG:HB2	1:K:1012:ILE:HD13	1.95	0.48
1:D:128:PHE:CG	1:D:129:ASN:N	2.80	0.48
1:F:865:ASN:N	1:F:889:CYS:SG	2.86	0.48
1:H:430:TYR:O	1:H:435:LEU:HD13	2.12	0.48
1:G:431:THR:HA	1:G:435:LEU:HD22	1.94	0.48
1:F:427:LEU:HD12	1:F:438:THR:C	2.33	0.48
1:J:435:LEU:HD12	1:J:436:LYS:N	2.27	0.48
1:J:430:TYR:O	1:J:435:LEU:HD13	2.12	0.48
1:I:203:ILE:O	1:I:248:ASP:N	2.40	0.48
1:F:825:MET:N	1:F:852:ILE:O	2.40	0.48
1:A:797:HIS:CG	1:A:826:LYS:HB3	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:524:THR:CB	1:A:530:ARG:HH12	2.25	0.48
1:A:821:ASP:O	1:A:823:GLN:NE2	2.46	0.48
1:D:865:ASN:N	1:D:889:CYS:SG	2.86	0.48
1:E:421:LEU:O	1:E:425:GLY:N	2.42	0.48
1:F:914:LEU:HD11	1:F:927:LEU:HD13	1.94	0.48
1:H:865:ASN:N	1:H:889:CYS:SG	2.86	0.48
1:J:865:ASN:N	1:J:889:CYS:SG	2.86	0.48
1:K:914:LEU:HD11	1:K:927:LEU:HD13	1.94	0.48
1:G:427:LEU:HD12	1:G:438:THR:C	2.33	0.48
1:G:409:GLU:HG3	1:G:436:LYS:HB2	1.94	0.48
1:J:427:LEU:HD12	1:J:438:THR:C	2.33	0.48
1:D:427:LEU:HD12	1:D:438:THR:C	2.33	0.48
1:B:430:TYR:O	1:B:435:LEU:HD13	2.12	0.48
1:G:985:ARG:HB2	1:G:1012:ILE:HD13	1.95	0.48
1:B:448:GLU:OE1	1:B:493:TYR:OH	2.17	0.48
1:E:175:LYS:HE2	1:E:278:THR:HA	1.94	0.48
1:J:269:HIS:CD2	1:J:270:ARG:HG3	2.48	0.48
1:A:269:HIS:CD2	1:A:270:ARG:HG3	2.48	0.48
1:K:741:LEU:HD21	1:K:755:LEU:HD21	1.94	0.48
1:J:524:THR:CB	1:J:530:ARG:HH12	2.25	0.48
1:F:821:ASP:O	1:F:823:GLN:NE2	2.46	0.48
1:D:370:LEU:HD13	1:D:426:LEU:HG	1.95	0.48
1:A:914:LEU:O	1:A:917:TRP:HB2	2.13	0.48
1:B:787:LEU:HA	1:B:790:LEU:HB2	1.96	0.48
1:A:427:LEU:HD12	1:A:438:THR:C	2.33	0.48
1:C:408:PHE:HE2	1:C:439:TYR:CE2	2.32	0.48
1:B:427:LEU:HD12	1:B:438:THR:C	2.33	0.48
1:G:1010:TYR:C	1:G:1012:ILE:H	2.17	0.48
1:J:533:SEP:HA	1:J:693:HIS:ND1	2.29	0.48
1:D:679:TYR:HA	1:D:682:LYS:HG3	1.95	0.48
1:H:780:ALA:O	1:H:783:LEU:HB3	2.14	0.48
1:G:780:ALA:O	1:G:783:LEU:HB3	2.14	0.48
1:E:848:ILE:CG1	1:E:880:GLU:HG3	2.41	0.48
1:J:802:SER:O	1:J:803:ASP:HB2	2.14	0.48
1:A:985:ARG:HB2	1:A:1012:ILE:HD13	1.95	0.48
1:I:141:LYS:HB2	1:I:152:LEU:HD11	1.96	0.48
1:C:512:VAL:HG11	1:C:554:PHE:CZ	2.49	0.48
1:C:858:ASN:N	1:C:888:TRP:HE1	2.11	0.48
1:B:370:LEU:HD13	1:B:426:LEU:HG	1.95	0.48
1:G:370:LEU:HD13	1:G:426:LEU:HG	1.95	0.48
1:F:892:VAL:O	1:F:895:SER:OG	2.15	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:865:ASN:N	1:A:889:CYS:SG	2.86	0.48
1:G:914:LEU:HD11	1:G:927:LEU:HD13	1.94	0.48
1:H:914:LEU:O	1:H:917:TRP:HB2	2.13	0.48
1:I:427:LEU:HD12	1:I:438:THR:C	2.33	0.48
1:C:431:THR:HA	1:C:435:LEU:HD22	1.94	0.48
1:C:430:TYR:O	1:C:435:LEU:HD13	2.12	0.48
1:B:408:PHE:HE2	1:B:439:TYR:CE2	2.32	0.48
1:I:533:SEP:HA	1:I:693:HIS:ND1	2.29	0.48
1:G:533:SEP:HA	1:G:693:HIS:ND1	2.29	0.48
1:E:679:TYR:HA	1:E:682:LYS:HG3	1.95	0.48
1:I:824:GLU:HG2	1:I:852:ILE:HB	1.96	0.48
1:G:825:MET:N	1:G:852:ILE:O	2.40	0.48
1:D:269:HIS:CD2	1:D:270:ARG:HG3	2.48	0.48
1:E:217:TYR:O	1:E:221:LEU:HG	2.12	0.48
1:K:141:LYS:HB2	1:K:152:LEU:HD11	1.96	0.48
1:D:283:CYS:O	1:D:286:HIS:ND1	2.47	0.48
1:D:314:VAL:O	1:D:318:VAL:HG23	2.14	0.48
1:B:364:GLN:HA	1:B:367:TYR:CD2	2.32	0.48
1:I:914:LEU:O	1:I:917:TRP:HB2	2.13	0.48
1:A:872:ILE:HD11	1:A:898:LYS:O	2.14	0.48
1:H:914:LEU:HD11	1:H:927:LEU:HD13	1.94	0.48
1:H:408:PHE:HE2	1:H:439:TYR:CE2	2.32	0.48
1:G:408:PHE:HE2	1:G:439:TYR:CE2	2.32	0.48
1:I:435:LEU:HD12	1:I:436:LYS:N	2.28	0.48
1:J:409:GLU:HG3	1:J:436:LYS:HB2	1.94	0.48
1:D:408:PHE:HE2	1:D:439:TYR:CE2	2.32	0.48
1:F:679:TYR:HA	1:F:682:LYS:HG3	1.95	0.48
1:I:1010:TYR:C	1:I:1012:ILE:H	2.17	0.48
1:I:780:ALA:O	1:I:783:LEU:HB3	2.14	0.48
1:E:821:ASP:O	1:E:823:GLN:NE2	2.46	0.48
1:A:512:VAL:HG11	1:A:554:PHE:CZ	2.49	0.48
1:E:827:LEU:HD13	1:E:832:LEU:HD13	1.94	0.48
1:A:141:LYS:HB2	1:A:152:LEU:HD11	1.96	0.48
1:K:166:LEU:HD21	1:K:291:GLY:H	1.77	0.48
1:F:827:LEU:HD13	1:F:832:LEU:HD13	1.94	0.48
1:D:858:ASN:N	1:D:888:TRP:HE1	2.11	0.48
1:B:858:ASN:N	1:B:888:TRP:HE1	2.11	0.48
1:I:915:LYS:HA	1:I:945:ALA:H	1.79	0.48
1:F:915:LYS:HA	1:F:945:ALA:H	1.79	0.48
1:H:427:LEU:HD12	1:H:438:THR:C	2.33	0.48
1:H:409:GLU:HG3	1:H:436:LYS:HB2	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:435:LEU:HD12	1:K:436:LYS:N	2.27	0.48
1:A:408:PHE:HE2	1:A:439:TYR:CE2	2.32	0.48
1:E:338:PRO:O	1:E:342:VAL:HG23	2.14	0.48
1:I:338:PRO:O	1:I:342:VAL:HG23	2.14	0.48
1:D:338:PRO:O	1:D:342:VAL:HG23	2.14	0.48
1:J:360:THR:HG21	1:J:493:TYR:CD1	2.49	0.48
1:E:824:GLU:HG2	1:E:852:ILE:HB	1.96	0.48
1:H:824:GLU:HG2	1:H:852:ILE:HB	1.96	0.48
1:E:524:THR:CB	1:E:530:ARG:HH12	2.25	0.48
1:B:821:ASP:O	1:B:823:GLN:NE2	2.46	0.48
1:K:685:SER:OG	1:J:985:ARG:NE	2.47	0.48
1:J:141:LYS:HB2	1:J:152:LEU:HD11	1.96	0.48
1:I:802:SER:O	1:I:803:ASP:HB2	2.14	0.48
1:I:598:PHE:C	1:I:600:GLU:H	2.17	0.48
1:H:512:VAL:HG11	1:H:554:PHE:CZ	2.49	0.48
1:B:598:PHE:C	1:B:600:GLU:H	2.17	0.48
1:C:872:ILE:HD11	1:C:898:LYS:O	2.14	0.48
1:A:915:LYS:HA	1:A:945:ALA:H	1.79	0.48
1:E:858:ASN:N	1:E:888:TRP:HE1	2.11	0.48
1:B:872:ILE:HD11	1:B:898:LYS:O	2.14	0.48
1:F:858:ASN:N	1:F:888:TRP:HE1	2.11	0.48
1:F:914:LEU:O	1:F:917:TRP:HB2	2.13	0.48
1:G:858:ASN:N	1:G:888:TRP:HE1	2.11	0.48
1:H:872:ILE:HD11	1:H:898:LYS:O	2.14	0.48
1:J:914:LEU:HD11	1:J:927:LEU:HD13	1.94	0.48
1:C:370:LEU:HD13	1:C:426:LEU:HG	1.95	0.48
1:D:787:LEU:HA	1:D:790:LEU:HB2	1.96	0.48
1:F:338:PRO:O	1:F:342:VAL:HG23	2.14	0.48
1:I:360:THR:HG21	1:I:493:TYR:CD1	2.49	0.48
1:H:360:THR:HG21	1:H:493:TYR:CD1	2.49	0.48
1:D:824:GLU:HG2	1:D:852:ILE:HB	1.96	0.48
1:G:679:TYR:HA	1:G:682:LYS:HG3	1.95	0.48
1:F:824:GLU:HG2	1:F:852:ILE:HB	1.96	0.48
1:K:1010:TYR:C	1:K:1012:ILE:H	2.17	0.48
1:E:802:SER:O	1:E:803:ASP:HB2	2.14	0.48
1:F:985:ARG:HB2	1:F:1012:ILE:HD13	1.95	0.48
1:D:598:PHE:C	1:D:600:GLU:H	2.17	0.48
1:F:802:SER:O	1:F:803:ASP:HB2	2.14	0.48
1:B:985:ARG:HB2	1:B:1012:ILE:HD13	1.95	0.48
1:B:802:SER:O	1:B:803:ASP:HB2	2.14	0.48
1:E:857:GLU:C	1:E:888:TRP:HE1	2.18	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:914:LEU:HD11	1:I:927:LEU:HD13	1.94	0.48
1:J:857:GLU:C	1:J:888:TRP:HE1	2.17	0.48
1:K:865:ASN:N	1:K:889:CYS:SG	2.86	0.48
1:E:427:LEU:HD12	1:E:438:THR:C	2.33	0.48
1:E:431:THR:HA	1:E:435:LEU:HD22	1.94	0.48
1:F:408:PHE:HE2	1:F:439:TYR:CE2	2.32	0.48
1:K:787:LEU:HA	1:K:790:LEU:HB2	1.96	0.48
1:G:360:THR:HG21	1:G:493:TYR:CD1	2.49	0.48
1:C:679:TYR:HA	1:C:682:LYS:HG3	1.95	0.48
1:B:824:GLU:HG2	1:B:852:ILE:HB	1.96	0.48
1:C:824:GLU:HG2	1:C:852:ILE:HB	1.96	0.48
1:F:780:ALA:O	1:F:783:LEU:HB3	2.14	0.48
1:C:821:ASP:O	1:C:823:GLN:NE2	2.46	0.48
1:J:1010:TYR:C	1:J:1012:ILE:H	2.17	0.48
1:E:598:PHE:C	1:E:600:GLU:H	2.17	0.48
1:A:598:PHE:C	1:A:600:GLU:H	2.17	0.48
1:G:141:LYS:HB2	1:G:152:LEU:HD11	1.96	0.48
1:B:141:LYS:HB2	1:B:152:LEU:HD11	1.96	0.48
1:K:560:ASN:O	1:K:563:SER:OG	2.19	0.48
1:H:141:LYS:HB2	1:H:152:LEU:HD11	1.96	0.48
1:B:512:VAL:HG11	1:B:554:PHE:CZ	2.49	0.48
1:J:314:VAL:O	1:J:318:VAL:HG23	2.14	0.48
1:G:827:LEU:HD13	1:G:832:LEU:HD13	1.94	0.48
1:B:915:LYS:HA	1:B:945:ALA:H	1.79	0.47
1:D:872:ILE:HD11	1:D:898:LYS:O	2.14	0.47
1:C:914:LEU:O	1:C:917:TRP:HB2	2.13	0.47
1:B:914:LEU:O	1:B:917:TRP:HB2	2.13	0.47
1:K:915:LYS:HA	1:K:945:ALA:H	1.79	0.47
1:E:370:LEU:HD13	1:E:426:LEU:HG	1.95	0.47
1:F:857:GLU:C	1:F:888:TRP:HE1	2.17	0.47
1:G:872:ILE:HD11	1:G:898:LYS:O	2.14	0.47
1:J:914:LEU:O	1:J:917:TRP:HB2	2.13	0.47
1:K:872:ILE:HD11	1:K:898:LYS:O	2.14	0.47
1:C:338:PRO:O	1:C:342:VAL:HG23	2.14	0.47
1:A:533:SEP:HA	1:A:693:HIS:ND1	2.29	0.47
1:H:533:SEP:HA	1:H:693:HIS:ND1	2.29	0.47
1:E:533:SEP:HA	1:E:693:HIS:ND1	2.29	0.47
1:G:824:GLU:HG2	1:G:852:ILE:HB	1.96	0.47
1:J:824:GLU:HG2	1:J:852:ILE:HB	1.96	0.47
1:F:269:HIS:CD2	1:F:270:ARG:HG3	2.48	0.47
1:A:824:GLU:HG2	1:A:852:ILE:HB	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:741:LEU:HD21	1:G:755:LEU:HD21	1.94	0.47
1:B:780:ALA:O	1:B:783:LEU:HB3	2.14	0.47
1:A:532:GLU:OE1	1:A:744:HIS:ND1	2.41	0.47
1:D:821:ASP:O	1:D:823:GLN:NE2	2.46	0.47
1:K:780:ALA:O	1:K:783:LEU:HB3	2.14	0.47
1:B:166:LEU:HD13	1:B:288:ARG:HA	1.96	0.47
1:E:314:VAL:O	1:E:318:VAL:HG23	2.14	0.47
1:F:598:PHE:C	1:F:600:GLU:H	2.17	0.47
1:E:512:VAL:HG11	1:E:554:PHE:CZ	2.49	0.47
1:F:512:VAL:HG11	1:F:554:PHE:CZ	2.49	0.47
1:C:283:CYS:O	1:C:286:HIS:ND1	2.47	0.47
1:A:857:GLU:C	1:A:888:TRP:HE1	2.17	0.47
1:H:858:ASN:N	1:H:888:TRP:HE1	2.11	0.47
1:J:858:ASN:N	1:J:888:TRP:HE1	2.11	0.47
1:K:408:PHE:HE2	1:K:439:TYR:CE2	2.32	0.47
1:K:289:HIS:CE1	1:A:119:PRO:HA	2.49	0.47
1:D:1010:TYR:C	1:D:1012:ILE:H	2.17	0.47
1:A:338:PRO:O	1:A:342:VAL:HG23	2.14	0.47
1:F:533:SEP:HA	1:F:693:HIS:ND1	2.29	0.47
1:F:360:THR:HG21	1:F:493:TYR:CD1	2.49	0.47
1:K:360:THR:HG21	1:K:493:TYR:CD1	2.49	0.47
1:H:1010:TYR:C	1:H:1012:ILE:H	2.17	0.47
1:A:1010:TYR:C	1:A:1012:ILE:H	2.17	0.47
1:K:314:VAL:O	1:K:318:VAL:HG23	2.14	0.47
1:D:512:VAL:HG11	1:D:554:PHE:CZ	2.49	0.47
1:H:598:PHE:C	1:H:600:GLU:H	2.17	0.47
1:A:662:LEU:HB2	1:A:687:ALA:CB	2.45	0.47
1:J:546:LEU:HA	1:J:549:ILE:HB	1.97	0.47
1:D:546:LEU:HA	1:D:549:ILE:HB	1.96	0.47
1:J:512:VAL:HG11	1:J:554:PHE:CZ	2.49	0.47
1:K:512:VAL:HG11	1:K:554:PHE:CZ	2.49	0.47
1:I:314:VAL:O	1:I:318:VAL:HG23	2.14	0.47
1:E:1010:TYR:C	1:E:1012:ILE:H	2.17	0.47
1:C:141:LYS:HB2	1:C:152:LEU:HD11	1.96	0.47
1:G:598:PHE:C	1:G:600:GLU:H	2.17	0.47
1:C:985:ARG:HB2	1:C:1012:ILE:HD13	1.95	0.47
1:D:915:LYS:HA	1:D:945:ALA:H	1.79	0.47
1:I:872:ILE:HD11	1:I:898:LYS:O	2.14	0.47
1:I:858:ASN:N	1:I:888:TRP:HE1	2.11	0.47
1:K:858:ASN:N	1:K:888:TRP:HE1	2.11	0.47
1:G:338:PRO:O	1:G:342:VAL:HG23	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:533:SEP:HA	1:K:693:HIS:ND1	2.29	0.47
1:D:533:SEP:HA	1:D:693:HIS:ND1	2.29	0.47
1:G:613:LYS:NZ	1:G:663:GLU:HB2	2.30	0.47
1:H:679:TYR:HA	1:H:682:LYS:HG3	1.95	0.47
1:K:824:GLU:HG2	1:K:852:ILE:HB	1.96	0.47
1:G:662:LEU:HB2	1:G:687:ALA:CB	2.45	0.47
1:C:662:LEU:HB2	1:C:687:ALA:CB	2.44	0.47
1:K:532:GLU:OE1	1:K:744:HIS:ND1	2.41	0.47
1:F:314:VAL:O	1:F:318:VAL:HG23	2.14	0.47
1:A:596:PHE:O	1:A:599:PHE:HB2	2.15	0.47
1:G:314:VAL:O	1:G:318:VAL:HG23	2.14	0.47
1:F:546:LEU:HA	1:F:549:ILE:HB	1.97	0.47
1:G:802:SER:O	1:G:803:ASP:HB2	2.14	0.47
1:G:546:LEU:HA	1:G:549:ILE:HB	1.96	0.47
1:I:546:LEU:HA	1:I:549:ILE:HB	1.96	0.47
1:E:872:ILE:HD11	1:E:898:LYS:O	2.14	0.47
1:B:857:GLU:C	1:B:888:TRP:HE1	2.17	0.47
1:A:858:ASN:N	1:A:888:TRP:HE1	2.11	0.47
1:I:408:PHE:HE2	1:I:439:TYR:CE2	2.32	0.47
1:F:370:LEU:HD13	1:F:426:LEU:HG	1.95	0.47
1:B:533:SEP:HA	1:B:693:HIS:ND1	2.29	0.47
1:C:613:LYS:NZ	1:C:663:GLU:HB2	2.30	0.47
1:F:613:LYS:NZ	1:F:663:GLU:HB2	2.30	0.47
1:J:679:TYR:HA	1:J:682:LYS:HG3	1.95	0.47
1:K:706:SER:HA	1:K:709:ARG:NE	2.30	0.47
1:K:662:LEU:HB2	1:K:687:ALA:CB	2.45	0.47
1:I:662:LEU:HB2	1:I:687:ALA:CB	2.45	0.47
1:I:741:LEU:HD21	1:I:755:LEU:HD21	1.94	0.47
1:C:166:LEU:HD13	1:C:288:ARG:HA	1.97	0.47
1:A:166:LEU:HD13	1:A:288:ARG:HA	1.96	0.47
1:F:743:ILE:O	1:F:773:ILE:HD11	2.15	0.47
1:F:596:PHE:O	1:F:599:PHE:HB2	2.15	0.47
1:J:598:PHE:C	1:J:600:GLU:H	2.17	0.47
1:K:546:LEU:HA	1:K:549:ILE:HB	1.97	0.47
1:C:915:LYS:HA	1:C:945:ALA:H	1.79	0.47
1:G:915:LYS:HA	1:G:945:ALA:H	1.79	0.47
1:I:857:GLU:C	1:I:888:TRP:HE1	2.18	0.47
1:H:857:GLU:C	1:H:888:TRP:HE1	2.17	0.47
1:J:872:ILE:HD11	1:J:898:LYS:O	2.14	0.47
1:A:812:VAL:HA	1:A:815:LEU:HD12	1.96	0.47
1:F:431:THR:HA	1:F:435:LEU:HD22	1.94	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:970:PHE:C	1:I:970:PHE:CD1	2.88	0.47
1:B:338:PRO:O	1:B:342:VAL:HG23	2.14	0.47
1:H:808:MET:O	1:H:812:VAL:HG23	2.15	0.47
1:J:706:SER:HA	1:J:709:ARG:NE	2.30	0.47
1:A:824:GLU:HA	1:A:852:ILE:HB	1.97	0.47
1:B:524:THR:OG1	1:B:530:ARG:NH1	2.28	0.47
1:D:141:LYS:HB2	1:D:152:LEU:HD11	1.96	0.47
1:C:546:LEU:HA	1:C:549:ILE:HB	1.97	0.47
1:K:802:SER:O	1:K:803:ASP:HB2	2.14	0.47
1:H:743:ILE:O	1:H:773:ILE:HD11	2.15	0.47
1:C:596:PHE:O	1:C:599:PHE:HB2	2.15	0.47
1:F:455:LEU:HD23	1:F:455:LEU:HA	1.69	0.47
1:D:914:LEU:O	1:D:917:TRP:HB2	2.13	0.47
1:D:914:LEU:H	1:D:944:LEU:HD23	1.80	0.47
1:E:888:TRP:HA	1:E:892:VAL:HG21	1.96	0.47
1:J:915:LYS:HA	1:J:945:ALA:H	1.79	0.47
1:H:915:LYS:HA	1:H:945:ALA:H	1.79	0.47
1:F:872:ILE:HD11	1:F:898:LYS:O	2.14	0.47
1:G:868:LEU:HD21	1:G:886:LEU:CD2	2.45	0.47
1:J:868:LEU:HD21	1:J:886:LEU:CD2	2.45	0.47
1:H:338:PRO:O	1:H:342:VAL:HG23	2.14	0.47
1:J:338:PRO:O	1:J:342:VAL:HG23	2.14	0.47
1:H:770:LEU:HA	1:H:770:LEU:HD23	1.74	0.47
1:B:613:LYS:NZ	1:B:663:GLU:HB2	2.30	0.47
1:E:360:THR:HG21	1:E:493:TYR:CD1	2.49	0.47
1:E:662:LEU:HB2	1:E:687:ALA:CB	2.45	0.47
1:I:679:TYR:HA	1:I:682:LYS:HG3	1.95	0.47
1:J:662:LEU:HB2	1:J:687:ALA:CB	2.45	0.47
1:E:743:ILE:O	1:E:773:ILE:HD11	2.15	0.47
1:D:970:PHE:CD1	1:D:970:PHE:C	2.88	0.47
1:E:596:PHE:O	1:E:599:PHE:HB2	2.15	0.47
1:B:283:CYS:O	1:B:286:HIS:ND1	2.47	0.47
1:E:546:LEU:HA	1:E:549:ILE:HB	1.97	0.47
1:B:314:VAL:O	1:B:318:VAL:HG23	2.14	0.47
1:K:970:PHE:CD1	1:K:970:PHE:C	2.88	0.47
1:E:970:PHE:C	1:E:970:PHE:CD1	2.88	0.47
1:E:833:THR:O	1:E:836:SER:OG	2.32	0.47
1:H:546:LEU:HA	1:H:549:ILE:HB	1.97	0.47
1:F:141:LYS:HB2	1:F:152:LEU:HD11	1.96	0.47
1:K:311:ALA:O	1:J:145:ARG:NE	2.46	0.47
1:D:857:GLU:C	1:D:888:TRP:HE1	2.18	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:868:LEU:HD21	1:D:886:LEU:CD2	2.45	0.47
1:C:857:GLU:C	1:C:888:TRP:HE1	2.17	0.47
1:E:868:LEU:HD21	1:E:886:LEU:CD2	2.45	0.47
1:B:812:VAL:HA	1:B:815:LEU:HD12	1.96	0.47
1:B:798:LEU:HB2	1:B:808:MET:HE3	1.96	0.47
1:J:888:TRP:HA	1:J:892:VAL:HG21	1.96	0.47
1:J:914:LEU:H	1:J:944:LEU:HD23	1.80	0.47
1:A:787:LEU:HA	1:A:790:LEU:HB2	1.96	0.47
1:K:868:LEU:HD21	1:K:886:LEU:CD2	2.45	0.47
1:K:914:LEU:H	1:K:944:LEU:HD23	1.80	0.47
1:C:812:VAL:HA	1:C:815:LEU:HD12	1.96	0.47
1:E:408:PHE:HE2	1:E:439:TYR:CE2	2.32	0.47
1:J:408:PHE:HE2	1:J:439:TYR:CE2	2.32	0.47
1:D:812:VAL:HA	1:D:815:LEU:HD12	1.97	0.47
1:J:787:LEU:HA	1:J:790:LEU:HB2	1.96	0.47
1:K:338:PRO:O	1:K:342:VAL:HG23	2.14	0.47
1:D:613:LYS:HZ2	1:D:663:GLU:HB2	1.79	0.47
1:A:360:THR:HG21	1:A:493:TYR:CD1	2.49	0.47
1:B:824:GLU:HA	1:B:852:ILE:HB	1.97	0.47
1:E:824:GLU:HA	1:E:852:ILE:HB	1.97	0.47
1:F:824:GLU:HA	1:F:852:ILE:HB	1.97	0.47
1:H:824:GLU:HA	1:H:852:ILE:HB	1.97	0.47
1:A:706:SER:HA	1:A:709:ARG:NE	2.30	0.47
1:B:662:LEU:HB2	1:B:687:ALA:CB	2.45	0.47
1:I:985:ARG:NE	1:J:685:SER:OG	2.48	0.47
1:J:921:ASP:OD1	1:J:950:SER:OG	2.25	0.47
1:C:780:ALA:O	1:C:783:LEU:HB3	2.14	0.47
1:J:780:ALA:O	1:J:783:LEU:HB3	2.14	0.47
1:E:780:ALA:O	1:E:783:LEU:HB3	2.14	0.47
1:K:506:MET:HG3	1:K:571:LEU:HD22	1.97	0.47
1:H:506:MET:HG3	1:H:571:LEU:HD22	1.97	0.47
1:B:506:MET:HG3	1:B:571:LEU:HD22	1.97	0.47
1:C:506:MET:HG3	1:C:571:LEU:HD22	1.97	0.47
1:F:1010:TYR:C	1:F:1012:ILE:H	2.17	0.47
1:G:970:PHE:CD1	1:G:970:PHE:C	2.88	0.47
1:A:314:VAL:O	1:A:318:VAL:HG23	2.14	0.47
1:D:833:THR:O	1:D:836:SER:OG	2.32	0.47
1:I:596:PHE:O	1:I:599:PHE:HB2	2.15	0.47
1:C:598:PHE:C	1:C:600:GLU:H	2.17	0.47
1:B:546:LEU:HA	1:B:549:ILE:HB	1.97	0.47
1:K:145:ARG:O	1:K:146:HIS:HB2	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:158:LEU:HB3	1:K:193:ALA:HB3	1.97	0.47
1:E:158:LEU:HB3	1:E:193:ALA:HB3	1.97	0.47
1:F:833:THR:O	1:F:836:SER:OG	2.32	0.47
1:I:512:VAL:HG11	1:I:554:PHE:CZ	2.49	0.47
1:H:802:SER:O	1:H:803:ASP:HB2	2.14	0.47
1:D:888:TRP:HA	1:D:892:VAL:HG21	1.96	0.47
1:C:868:LEU:HD21	1:C:886:LEU:CD2	2.45	0.47
1:C:888:TRP:HA	1:C:892:VAL:HG21	1.96	0.47
1:C:914:LEU:H	1:C:944:LEU:HD23	1.80	0.47
1:I:370:LEU:HD23	1:I:370:LEU:HA	1.66	0.47
1:E:787:LEU:HA	1:E:790:LEU:HB2	1.96	0.47
1:F:787:LEU:HA	1:F:790:LEU:HB2	1.96	0.47
1:B:360:THR:HG21	1:B:493:TYR:CD1	2.49	0.47
1:D:824:GLU:HA	1:D:852:ILE:HB	1.97	0.47
1:B:825:MET:N	1:B:852:ILE:O	2.40	0.47
1:B:679:TYR:HA	1:B:682:LYS:HG3	1.95	0.47
1:F:524:THR:CB	1:F:530:ARG:HH12	2.25	0.47
1:A:506:MET:HG3	1:A:571:LEU:HD22	1.97	0.47
1:I:506:MET:HG3	1:I:571:LEU:HD22	1.97	0.47
1:F:166:LEU:HD13	1:F:288:ARG:HA	1.97	0.47
1:G:166:LEU:HD13	1:G:288:ARG:HA	1.96	0.47
1:A:198:ARG:HG2	1:A:242:GLU:HB3	1.97	0.47
1:E:145:ARG:O	1:E:146:HIS:HB2	2.15	0.47
1:C:970:PHE:C	1:C:970:PHE:CD1	2.88	0.47
1:F:158:LEU:HB3	1:F:193:ALA:HB3	1.97	0.47
1:H:596:PHE:O	1:H:599:PHE:HB2	2.15	0.47
1:H:314:VAL:O	1:H:318:VAL:HG23	2.14	0.47
1:A:158:LEU:HB3	1:A:193:ALA:HB3	1.97	0.47
1:H:145:ARG:O	1:H:146:HIS:HB2	2.15	0.47
1:C:743:ILE:O	1:C:773:ILE:HD11	2.15	0.47
1:J:596:PHE:O	1:J:599:PHE:HB2	2.15	0.47
1:A:546:LEU:HA	1:A:549:ILE:HB	1.97	0.47
1:G:512:VAL:HG11	1:G:554:PHE:CZ	2.49	0.47
1:H:868:LEU:HD21	1:H:886:LEU:CD2	2.45	0.47
1:A:808:MET:O	1:A:812:VAL:HG23	2.15	0.47
1:C:787:LEU:HA	1:C:790:LEU:HB2	1.96	0.47
1:J:808:MET:O	1:J:812:VAL:HG23	2.15	0.47
1:G:787:LEU:HA	1:G:790:LEU:HB2	1.96	0.47
1:D:985:ARG:HB2	1:D:1012:ILE:HD13	1.95	0.47
1:H:787:LEU:HA	1:H:790:LEU:HB2	1.96	0.47
1:B:941:GLN:HG3	1:B:969:PHE:HB3	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:360:THR:HG21	1:D:493:TYR:CD1	2.49	0.47
1:G:824:GLU:HA	1:G:852:ILE:HB	1.97	0.47
1:K:824:GLU:HA	1:K:852:ILE:HB	1.97	0.47
1:B:706:SER:HA	1:B:709:ARG:NE	2.30	0.47
1:H:662:LEU:HB2	1:H:687:ALA:CB	2.45	0.47
1:F:706:SER:HA	1:F:709:ARG:NE	2.30	0.47
1:A:679:TYR:HA	1:A:682:LYS:HG3	1.95	0.47
1:D:780:ALA:O	1:D:783:LEU:HB3	2.14	0.47
1:J:506:MET:HG3	1:J:571:LEU:HD22	1.97	0.47
1:A:985:ARG:NE	1:B:685:SER:OG	2.48	0.47
1:K:166:LEU:HD13	1:K:288:ARG:HA	1.97	0.47
1:E:985:ARG:HB2	1:E:1012:ILE:HD13	1.95	0.47
1:F:145:ARG:O	1:F:146:HIS:HB2	2.15	0.47
1:K:598:PHE:C	1:K:600:GLU:H	2.17	0.47
1:A:813:LYS:HD2	1:A:813:LYS:HA	1.78	0.47
1:B:158:LEU:HB3	1:B:193:ALA:HB3	1.97	0.47
1:C:455:LEU:HA	1:C:455:LEU:HD23	1.69	0.47
1:C:865:ASN:N	1:C:889:CYS:SG	2.86	0.47
1:J:364:GLN:HA	1:J:367:TYR:CD2	2.32	0.47
1:E:370:LEU:HD23	1:E:370:LEU:HA	1.65	0.47
1:F:888:TRP:HA	1:F:892:VAL:HG21	1.96	0.47
1:K:914:LEU:O	1:K:917:TRP:HB2	2.13	0.47
1:I:787:LEU:HA	1:I:790:LEU:HB2	1.96	0.47
1:D:613:LYS:NZ	1:D:663:GLU:HB2	2.30	0.47
1:I:824:GLU:HA	1:I:852:ILE:HB	1.97	0.47
1:E:706:SER:HA	1:E:709:ARG:NE	2.30	0.47
1:A:780:ALA:O	1:A:783:LEU:HB3	2.14	0.47
1:B:532:GLU:OE1	1:B:744:HIS:ND1	2.41	0.47
1:D:532:GLU:OE1	1:D:744:HIS:ND1	2.41	0.47
1:C:1010:TYR:C	1:C:1012:ILE:H	2.17	0.47
1:A:970:PHE:CD1	1:A:970:PHE:C	2.88	0.47
1:J:158:LEU:HB3	1:J:193:ALA:HB3	1.97	0.47
1:B:198:ARG:HG2	1:B:242:GLU:HB3	1.97	0.47
1:E:141:LYS:HB2	1:E:152:LEU:HD11	1.96	0.47
1:D:158:LEU:HB3	1:D:193:ALA:HB3	1.97	0.47
1:C:145:ARG:O	1:C:146:HIS:HB2	2.15	0.47
1:E:865:ASN:N	1:E:889:CYS:SG	2.86	0.46
1:F:914:LEU:H	1:F:944:LEU:HD23	1.80	0.46
1:G:865:ASN:N	1:G:889:CYS:SG	2.86	0.46
1:G:914:LEU:H	1:G:944:LEU:HD23	1.80	0.46
1:H:888:TRP:HA	1:H:892:VAL:HG21	1.96	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:914:LEU:H	1:H:944:LEU:HD23	1.80	0.46
1:K:770:LEU:HD23	1:K:770:LEU:HA	1.74	0.46
1:K:808:MET:O	1:K:812:VAL:HG23	2.15	0.46
1:A:613:LYS:NZ	1:A:663:GLU:HB2	2.30	0.46
1:H:613:LYS:NZ	1:H:663:GLU:HB2	2.30	0.46
1:C:360:THR:HG21	1:C:493:TYR:CD1	2.49	0.46
1:C:824:GLU:HA	1:C:852:ILE:HB	1.97	0.46
1:J:824:GLU:HA	1:J:852:ILE:HB	1.97	0.46
1:J:1009:ASP:HB2	1:J:1013:SER:HB3	1.98	0.46
1:G:706:SER:HA	1:G:709:ARG:NE	2.30	0.46
1:E:506:MET:HG3	1:E:571:LEU:HD22	1.97	0.46
1:D:166:LEU:HD13	1:D:288:ARG:HA	1.97	0.46
1:J:166:LEU:HD13	1:J:288:ARG:HA	1.96	0.46
1:H:166:LEU:HD13	1:H:288:ARG:HA	1.96	0.46
1:C:985:ARG:NE	1:D:685:SER:OG	2.48	0.46
1:A:283:CYS:O	1:A:286:HIS:ND1	2.47	0.46
1:H:283:CYS:O	1:H:286:HIS:ND1	2.47	0.46
1:G:145:ARG:O	1:G:146:HIS:HB2	2.15	0.46
1:J:1002:LEU:N	1:J:1024:ALA:O	2.49	0.46
1:B:405:LYS:HE2	1:B:407:ASP:O	2.15	0.46
1:I:743:ILE:O	1:I:773:ILE:HD11	2.15	0.46
1:D:405:LYS:HE2	1:D:407:ASP:O	2.16	0.46
1:F:868:LEU:HD21	1:F:886:LEU:CD2	2.45	0.46
1:I:868:LEU:HD21	1:I:886:LEU:CD2	2.45	0.46
1:I:888:TRP:HA	1:I:892:VAL:HG21	1.96	0.46
1:A:888:TRP:HA	1:A:892:VAL:HG21	1.96	0.46
1:B:808:MET:O	1:B:812:VAL:HG23	2.15	0.46
1:A:203:ILE:O	1:A:248:ASP:N	2.40	0.46
1:E:389:SER:HA	1:E:392:TYR:CD2	2.51	0.46
1:C:533:SEP:HA	1:C:693:HIS:ND1	2.29	0.46
1:E:613:LYS:NZ	1:E:663:GLU:HB2	2.30	0.46
1:E:1009:ASP:HB2	1:E:1013:SER:HB3	1.98	0.46
1:E:245:PHE:HE2	1:E:273:ASN:HB2	1.80	0.46
1:I:1009:ASP:HB2	1:I:1013:SER:HB3	1.98	0.46
1:A:329:ARG:HA	1:A:329:ARG:HD3	1.77	0.46
1:C:213:PHE:CE1	1:C:214:GLU:HG2	2.51	0.46
1:D:506:MET:HG3	1:D:571:LEU:HD22	1.97	0.46
1:G:506:MET:HG3	1:G:571:LEU:HD22	1.97	0.46
1:E:166:LEU:HD13	1:E:288:ARG:HA	1.96	0.46
1:K:596:PHE:O	1:K:599:PHE:HB2	2.15	0.46
1:D:145:ARG:O	1:D:146:HIS:HB2	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:802:SER:O	1:C:803:ASP:HB2	2.14	0.46
1:D:198:ARG:HG2	1:D:242:GLU:HB3	1.97	0.46
1:K:198:ARG:HG2	1:K:242:GLU:HB3	1.97	0.46
1:B:970:PHE:C	1:B:970:PHE:CD1	2.88	0.46
1:C:833:THR:O	1:C:836:SER:OG	2.32	0.46
1:G:405:LYS:HE2	1:G:407:ASP:O	2.16	0.46
1:I:934:ASN:HA	1:I:935:PRO:HD3	1.78	0.46
1:G:158:LEU:HB3	1:G:193:ALA:HB3	1.97	0.46
1:I:405:LYS:HE2	1:I:407:ASP:O	2.15	0.46
1:C:405:LYS:HE2	1:C:407:ASP:O	2.16	0.46
1:C:314:VAL:O	1:C:318:VAL:HG23	2.14	0.46
1:A:802:SER:O	1:A:803:ASP:HB2	2.14	0.46
1:C:198:ARG:HG2	1:C:242:GLU:HB3	1.97	0.46
1:F:970:PHE:C	1:F:970:PHE:CD1	2.88	0.46
1:C:158:LEU:HB3	1:C:193:ALA:HB3	1.97	0.46
1:E:914:LEU:H	1:E:944:LEU:HD23	1.80	0.46
1:G:857:GLU:C	1:G:888:TRP:HE1	2.17	0.46
1:K:888:TRP:HA	1:K:892:VAL:HG21	1.96	0.46
1:B:389:SER:HA	1:B:392:TYR:CD2	2.51	0.46
1:K:613:LYS:NZ	1:K:663:GLU:HB2	2.30	0.46
1:K:941:GLN:HG3	1:K:969:PHE:HB3	1.97	0.46
1:D:941:GLN:HG3	1:D:969:PHE:HB3	1.97	0.46
1:F:1009:ASP:HB2	1:F:1013:SER:HB3	1.98	0.46
1:D:706:SER:HA	1:D:709:ARG:NE	2.30	0.46
1:E:213:PHE:CE1	1:E:214:GLU:HG2	2.51	0.46
1:I:166:LEU:HD13	1:I:288:ARG:HA	1.97	0.46
1:D:802:SER:O	1:D:803:ASP:HB2	2.14	0.46
1:F:523:VAL:CG2	1:F:545:VAL:HB	2.46	0.46
1:A:145:ARG:O	1:A:146:HIS:HB2	2.15	0.46
1:H:405:LYS:HE2	1:H:407:ASP:O	2.16	0.46
1:E:198:ARG:HG2	1:E:242:GLU:HB3	1.97	0.46
1:D:596:PHE:O	1:D:599:PHE:HB2	2.15	0.46
1:K:1002:LEU:N	1:K:1024:ALA:O	2.49	0.46
1:J:405:LYS:HE2	1:J:407:ASP:O	2.16	0.46
1:E:808:MET:O	1:E:812:VAL:HG23	2.15	0.46
1:G:808:MET:O	1:G:812:VAL:HG23	2.15	0.46
1:I:808:MET:O	1:I:812:VAL:HG23	2.15	0.46
1:H:970:PHE:C	1:H:970:PHE:CD1	2.88	0.46
1:D:389:SER:HA	1:D:392:TYR:CD2	2.51	0.46
1:H:389:SER:HA	1:H:392:TYR:CD2	2.51	0.46
1:F:808:MET:O	1:F:812:VAL:HG23	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:245:PHE:HE2	1:H:273:ASN:HB2	1.80	0.46
1:A:245:PHE:HE2	1:A:273:ASN:HB2	1.80	0.46
1:E:122:GLU:HA	1:E:123:ASP:CB	2.46	0.46
1:G:245:PHE:HE2	1:G:273:ASN:HB2	1.80	0.46
1:C:245:PHE:HE2	1:C:273:ASN:HB2	1.80	0.46
1:B:1009:ASP:HB2	1:B:1013:SER:HB3	1.98	0.46
1:A:1009:ASP:HB2	1:A:1013:SER:HB3	1.98	0.46
1:H:706:SER:HA	1:H:709:ARG:NE	2.30	0.46
1:D:662:LEU:HB2	1:D:687:ALA:CB	2.45	0.46
1:B:614:LEU:HD22	1:B:616:PHE:CZ	2.51	0.46
1:E:614:LEU:HD22	1:E:616:PHE:CZ	2.51	0.46
1:F:506:MET:HG3	1:F:571:LEU:HD22	1.97	0.46
1:G:1002:LEU:N	1:G:1024:ALA:O	2.48	0.46
1:G:833:THR:O	1:G:836:SER:OG	2.32	0.46
1:E:405:LYS:HE2	1:E:407:ASP:O	2.16	0.46
1:I:1002:LEU:N	1:I:1024:ALA:O	2.49	0.46
1:B:596:PHE:O	1:B:599:PHE:HB2	2.15	0.46
1:G:743:ILE:O	1:G:773:ILE:HD11	2.15	0.46
1:F:198:ARG:HG2	1:F:242:GLU:HB3	1.97	0.46
1:I:145:ARG:O	1:I:146:HIS:HB2	2.15	0.46
1:D:743:ILE:O	1:D:773:ILE:HD11	2.15	0.46
1:I:198:ARG:HG2	1:I:242:GLU:HB3	1.97	0.46
1:I:914:LEU:H	1:I:944:LEU:HD23	1.80	0.46
1:K:857:GLU:C	1:K:888:TRP:HE1	2.17	0.46
1:J:812:VAL:HA	1:J:815:LEU:HD12	1.97	0.46
1:H:203:ILE:O	1:H:248:ASP:N	2.40	0.46
1:H:179:LEU:HB2	1:H:246:LEU:HD22	1.97	0.46
1:F:812:VAL:HA	1:F:815:LEU:HD12	1.97	0.46
1:G:515:HIS:O	1:G:550:ASN:HB2	2.16	0.46
1:A:941:GLN:HG3	1:A:969:PHE:HB3	1.97	0.46
1:J:356:ALA:HB3	1:J:358:THR:O	2.16	0.46
1:K:679:TYR:HA	1:K:682:LYS:HG3	1.95	0.46
1:C:1009:ASP:HB2	1:C:1013:SER:HB3	1.98	0.46
1:D:1009:ASP:HB2	1:D:1013:SER:HB3	1.98	0.46
1:C:706:SER:HA	1:C:709:ARG:NE	2.30	0.46
1:F:662:LEU:HB2	1:F:687:ALA:CB	2.45	0.46
1:I:706:SER:HA	1:I:709:ARG:NE	2.30	0.46
1:F:122:GLU:HA	1:F:123:ASP:CB	2.46	0.46
1:D:122:GLU:HA	1:D:123:ASP:CB	2.46	0.46
1:B:921:ASP:OD1	1:B:950:SER:OG	2.25	0.46
1:I:614:LEU:HD22	1:I:616:PHE:CZ	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:743:ILE:O	1:K:773:ILE:HD11	2.15	0.46
1:A:743:ILE:O	1:A:773:ILE:HD11	2.15	0.46
1:D:615:ASP:HB2	1:D:665:THR:OG1	2.16	0.46
1:H:1002:LEU:N	1:H:1024:ALA:O	2.49	0.46
1:J:198:ARG:HG2	1:J:242:GLU:HB3	1.98	0.46
1:G:198:ARG:HG2	1:G:242:GLU:HB3	1.98	0.46
1:H:198:ARG:HG2	1:H:242:GLU:HB3	1.97	0.46
1:H:523:VAL:CG2	1:H:545:VAL:HB	2.46	0.46
1:I:158:LEU:HB3	1:I:193:ALA:HB3	1.97	0.46
1:E:915:LYS:HA	1:E:945:ALA:H	1.79	0.46
1:B:868:LEU:HD21	1:B:886:LEU:CD2	2.45	0.46
1:B:888:TRP:HA	1:B:892:VAL:HG21	1.96	0.46
1:G:888:TRP:HA	1:G:892:VAL:HG21	1.96	0.46
1:J:892:VAL:HG11	1:J:917:TRP:HA	1.98	0.46
1:K:798:LEU:HB2	1:K:808:MET:HE3	1.98	0.46
1:A:410:PRO:HD3	1:A:437:PRO:HD2	1.98	0.46
1:G:812:VAL:HA	1:G:815:LEU:HD12	1.97	0.46
1:F:388:ARG:O	1:F:392:TYR:N	2.45	0.46
1:J:389:SER:HA	1:J:392:TYR:CD2	2.51	0.46
1:J:613:LYS:NZ	1:J:663:GLU:HB2	2.30	0.46
1:B:356:ALA:HB3	1:B:358:THR:O	2.16	0.46
1:C:941:GLN:HG3	1:C:969:PHE:HB3	1.97	0.46
1:F:245:PHE:HE2	1:F:273:ASN:HB2	1.80	0.46
1:C:329:ARG:HD3	1:C:329:ARG:HA	1.77	0.46
1:J:213:PHE:CE1	1:J:214:GLU:HG2	2.51	0.46
1:D:614:LEU:HD22	1:D:616:PHE:CZ	2.51	0.46
1:G:213:PHE:CE1	1:G:214:GLU:HG2	2.51	0.46
1:J:970:PHE:C	1:J:970:PHE:CD1	2.88	0.46
1:G:596:PHE:O	1:G:599:PHE:HB2	2.15	0.46
1:J:145:ARG:O	1:J:146:HIS:HB2	2.15	0.46
1:C:476:LYS:HB3	1:C:487:TYR:HE2	1.81	0.46
1:A:868:LEU:HD21	1:A:886:LEU:CD2	2.45	0.46
1:C:798:LEU:HB2	1:C:808:MET:HE3	1.97	0.46
1:D:410:PRO:HD3	1:D:437:PRO:HD2	1.98	0.46
1:K:410:PRO:HD3	1:K:437:PRO:HD2	1.98	0.46
1:D:808:MET:O	1:D:812:VAL:HG23	2.15	0.46
1:I:812:VAL:HA	1:I:815:LEU:HD12	1.97	0.46
1:C:389:SER:HA	1:C:392:TYR:CD2	2.51	0.46
1:G:1009:ASP:HB2	1:G:1013:SER:HB3	1.98	0.46
1:I:245:PHE:HE2	1:I:273:ASN:HB2	1.80	0.46
1:K:245:PHE:HE2	1:K:273:ASN:HB2	1.80	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:1009:ASP:HB2	1:H:1013:SER:HB3	1.98	0.46
1:K:1009:ASP:HB2	1:K:1013:SER:HB3	1.98	0.46
1:C:118:TYR:HA	1:C:119:PRO:HD2	1.76	0.46
1:G:614:LEU:HD22	1:G:616:PHE:CZ	2.51	0.46
1:F:985:ARG:NE	1:G:685:SER:OG	2.48	0.46
1:B:1010:TYR:C	1:B:1012:ILE:H	2.17	0.46
1:K:405:LYS:HE2	1:K:407:ASP:O	2.16	0.46
1:B:523:VAL:CG2	1:B:545:VAL:HB	2.46	0.46
1:B:743:ILE:O	1:B:773:ILE:HD11	2.15	0.46
1:K:523:VAL:CG2	1:K:545:VAL:HB	2.46	0.46
1:B:145:ARG:O	1:B:146:HIS:HB2	2.15	0.46
1:K:615:ASP:HB2	1:K:665:THR:OG1	2.16	0.46
1:J:743:ILE:O	1:J:773:ILE:HD11	2.15	0.46
1:F:1002:LEU:N	1:F:1024:ALA:O	2.49	0.46
1:A:476:LYS:HB3	1:A:487:TYR:HE2	1.81	0.46
1:C:808:MET:O	1:C:812:VAL:HG23	2.15	0.46
1:B:410:PRO:HD3	1:B:437:PRO:HD2	1.98	0.46
1:H:812:VAL:HA	1:H:815:LEU:HD12	1.97	0.46
1:K:389:SER:HA	1:K:392:TYR:CD2	2.51	0.46
1:G:389:SER:HA	1:G:392:TYR:CD2	2.51	0.46
1:A:515:HIS:O	1:A:550:ASN:HB2	2.16	0.46
1:G:363:PHE:CD1	1:G:446:PHE:CE1	3.04	0.46
1:H:356:ALA:HB3	1:H:358:THR:O	2.16	0.46
1:H:941:GLN:HG3	1:H:969:PHE:HB3	1.97	0.46
1:G:122:GLU:HA	1:G:123:ASP:CB	2.46	0.46
1:I:213:PHE:CE1	1:I:214:GLU:HG2	2.51	0.46
1:A:213:PHE:CE1	1:A:214:GLU:HG2	2.51	0.46
1:E:532:GLU:OE1	1:E:744:HIS:ND1	2.41	0.46
1:F:213:PHE:CE1	1:F:214:GLU:HG2	2.51	0.46
1:C:615:ASP:HB2	1:C:665:THR:OG1	2.16	0.46
1:C:523:VAL:CG2	1:C:545:VAL:HB	2.46	0.46
1:J:523:VAL:CG2	1:J:545:VAL:HB	2.46	0.46
1:J:615:ASP:HB2	1:J:665:THR:OG1	2.16	0.46
1:B:838:LYS:O	1:B:841:ALA:HB3	2.16	0.46
1:A:1002:LEU:N	1:A:1024:ALA:O	2.48	0.46
1:E:813:LYS:HA	1:E:813:LYS:HD2	1.78	0.46
1:I:813:LYS:HA	1:I:813:LYS:HD2	1.78	0.46
1:A:405:LYS:HE2	1:A:407:ASP:O	2.16	0.46
1:B:914:LEU:H	1:B:944:LEU:HD23	1.80	0.46
1:H:892:VAL:HG11	1:H:917:TRP:HA	1.98	0.46
1:J:410:PRO:HD3	1:J:437:PRO:HD2	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:179:LEU:HB2	1:B:246:LEU:HD22	1.97	0.46
1:J:179:LEU:HB2	1:J:246:LEU:HD22	1.97	0.46
1:C:179:LEU:HB2	1:C:246:LEU:HD22	1.98	0.46
1:K:119:PRO:HA	1:J:289:HIS:HE1	1.76	0.46
1:J:515:HIS:O	1:J:550:ASN:HB2	2.16	0.46
1:I:515:HIS:O	1:I:550:ASN:HB2	2.16	0.46
1:I:363:PHE:CD1	1:I:446:PHE:CE1	3.04	0.46
1:H:363:PHE:CD1	1:H:446:PHE:CE1	3.04	0.46
1:K:356:ALA:HB3	1:K:358:THR:O	2.16	0.46
1:B:245:PHE:HE2	1:B:273:ASN:HB2	1.80	0.46
1:E:662:LEU:HA	1:E:662:LEU:HD23	1.82	0.46
1:D:245:PHE:HE2	1:D:273:ASN:HB2	1.80	0.46
1:H:213:PHE:CE1	1:H:214:GLU:HG2	2.51	0.46
1:J:614:LEU:HD22	1:J:616:PHE:CZ	2.51	0.46
1:C:614:LEU:HD22	1:C:616:PHE:CZ	2.51	0.46
1:K:685:SER:CB	1:J:985:ARG:HE	2.28	0.46
1:A:838:LYS:O	1:A:841:ALA:HB3	2.16	0.46
1:D:523:VAL:CG2	1:D:545:VAL:HB	2.46	0.46
1:I:523:VAL:CG2	1:I:545:VAL:HB	2.46	0.46
1:H:751:LEU:HB3	1:H:752:PRO:HD2	1.98	0.46
1:H:759:LEU:HD12	1:H:786:GLY:HA3	1.98	0.46
1:G:459:LEU:HD23	1:G:467:VAL:HG13	1.98	0.46
1:E:892:VAL:HG11	1:E:917:TRP:HA	1.98	0.46
1:B:421:LEU:O	1:B:425:GLY:N	2.42	0.46
1:A:914:LEU:H	1:A:944:LEU:HD23	1.80	0.46
1:E:410:PRO:HD3	1:E:437:PRO:HD2	1.98	0.46
1:E:812:VAL:HA	1:E:815:LEU:HD12	1.97	0.46
1:C:410:PRO:HD3	1:C:437:PRO:HD2	1.98	0.46
1:K:515:HIS:O	1:K:550:ASN:HB2	2.16	0.46
1:C:515:HIS:O	1:C:550:ASN:HB2	2.16	0.46
1:J:363:PHE:CD1	1:J:446:PHE:CE1	3.04	0.46
1:G:941:GLN:HG3	1:G:969:PHE:HB3	1.97	0.46
1:F:941:GLN:HG3	1:F:969:PHE:HB3	1.97	0.46
1:I:759:LEU:HD12	1:I:786:GLY:HA3	1.98	0.46
1:G:759:LEU:HD12	1:G:786:GLY:HA3	1.98	0.46
1:J:108:LEU:HA	1:J:108:LEU:HD23	1.84	0.46
1:D:1002:LEU:N	1:D:1024:ALA:O	2.48	0.46
1:E:1002:LEU:N	1:E:1024:ALA:O	2.48	0.46
1:G:892:VAL:HG11	1:G:917:TRP:HA	1.98	0.45
1:G:770:LEU:HA	1:G:770:LEU:HD23	1.74	0.45
1:E:388:ARG:O	1:E:392:TYR:N	2.45	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:388:ARG:O	1:G:392:TYR:N	2.45	0.45
1:H:515:HIS:O	1:H:550:ASN:HB2	2.16	0.45
1:I:613:LYS:NZ	1:I:663:GLU:HB2	2.30	0.45
1:F:363:PHE:CD1	1:F:446:PHE:CE1	3.04	0.45
1:A:356:ALA:HB3	1:A:358:THR:O	2.16	0.45
1:A:947:HIS:NE2	1:A:949:VAL:HB	2.32	0.45
1:K:1011:ASP:OD2	1:A:679:TYR:CE1	2.68	0.45
1:A:614:LEU:HD22	1:A:616:PHE:CZ	2.51	0.45
1:H:459:LEU:HD23	1:H:467:VAL:HG13	1.98	0.45
1:I:537:LEU:HD13	1:I:742:SER:HB2	1.98	0.45
1:C:838:LYS:O	1:C:841:ALA:HB3	2.16	0.45
1:B:1002:LEU:N	1:B:1024:ALA:O	2.49	0.45
1:J:751:LEU:HB3	1:J:752:PRO:HD2	1.98	0.45
1:G:523:VAL:CG2	1:G:545:VAL:HB	2.46	0.45
1:F:751:LEU:HB3	1:F:752:PRO:HD2	1.98	0.45
1:K:476:LYS:HB3	1:K:487:TYR:HE2	1.81	0.45
1:B:455:LEU:HD23	1:B:455:LEU:HA	1.69	0.45
1:F:892:VAL:HG11	1:F:917:TRP:HA	1.98	0.45
1:A:892:VAL:HG11	1:A:917:TRP:HA	1.98	0.45
1:F:410:PRO:HD3	1:F:437:PRO:HD2	1.98	0.45
1:K:812:VAL:HA	1:K:815:LEU:HD12	1.97	0.45
1:G:179:LEU:HB2	1:G:246:LEU:HD22	1.97	0.45
1:D:179:LEU:HB2	1:D:246:LEU:HD22	1.98	0.45
1:I:389:SER:HA	1:I:392:TYR:CD2	2.51	0.45
1:E:941:GLN:HG3	1:E:969:PHE:HB3	1.97	0.45
1:K:363:PHE:CD1	1:K:446:PHE:CE1	3.04	0.45
1:F:329:ARG:HD3	1:F:329:ARG:HA	1.77	0.45
1:E:241:LYS:O	1:E:241:LYS:HG2	2.16	0.45
1:G:524:THR:CB	1:G:530:ARG:HH12	2.25	0.45
1:D:213:PHE:CE1	1:D:214:GLU:HG2	2.51	0.45
1:G:283:CYS:O	1:G:286:HIS:ND1	2.47	0.45
1:B:833:THR:O	1:B:836:SER:OG	2.32	0.45
1:G:615:ASP:HB2	1:G:665:THR:OG1	2.16	0.45
1:F:459:LEU:HD23	1:F:467:VAL:HG13	1.98	0.45
1:E:751:LEU:HB3	1:E:752:PRO:HD2	1.98	0.45
1:C:320:ARG:NH1	1:C:352:GLN:O	2.41	0.45
1:H:537:LEU:HD13	1:H:742:SER:HB2	1.98	0.45
1:H:410:PRO:HD3	1:H:437:PRO:HD2	1.98	0.45
1:I:410:PRO:HD3	1:I:437:PRO:HD2	1.98	0.45
1:F:421:LEU:O	1:F:425:GLY:N	2.42	0.45
1:I:770:LEU:HD23	1:I:770:LEU:HA	1.74	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:122:GLU:HA	1:A:123:ASP:CB	2.46	0.45
1:F:179:LEU:HB2	1:F:246:LEU:HD22	1.97	0.45
1:D:515:HIS:O	1:D:550:ASN:HB2	2.16	0.45
1:I:941:GLN:HG3	1:I:969:PHE:HB3	1.97	0.45
1:H:122:GLU:HA	1:H:123:ASP:CB	2.46	0.45
1:I:947:HIS:NE2	1:I:949:VAL:HB	2.32	0.45
1:F:614:LEU:HD22	1:F:616:PHE:CZ	2.51	0.45
1:K:759:LEU:HD12	1:K:786:GLY:HA3	1.98	0.45
1:F:759:LEU:HD12	1:F:786:GLY:HA3	1.98	0.45
1:C:1002:LEU:N	1:C:1024:ALA:O	2.49	0.45
1:G:537:LEU:HD13	1:G:742:SER:HB2	1.99	0.45
1:E:615:ASP:HB2	1:E:665:THR:OG1	2.16	0.45
1:A:459:LEU:HD23	1:A:467:VAL:HG13	1.98	0.45
1:I:122:GLU:HA	1:I:123:ASP:CB	2.46	0.45
1:E:476:LYS:HB3	1:E:487:TYR:HE2	1.81	0.45
1:J:122:GLU:HA	1:J:123:ASP:CB	2.46	0.45
1:D:476:LYS:HB3	1:D:487:TYR:HE2	1.81	0.45
1:C:892:VAL:HG11	1:C:917:TRP:HA	1.98	0.45
1:C:798:LEU:HB2	1:C:808:MET:CE	2.47	0.45
1:D:985:ARG:NE	1:E:685:SER:OG	2.49	0.45
1:G:985:ARG:NE	1:H:685:SER:OG	2.49	0.45
1:G:356:ALA:HB3	1:G:358:THR:O	2.16	0.45
1:K:947:HIS:NE2	1:K:949:VAL:HB	2.32	0.45
1:J:947:HIS:NE2	1:J:949:VAL:HB	2.31	0.45
1:H:614:LEU:HD22	1:H:616:PHE:CZ	2.51	0.45
1:B:985:ARG:NE	1:C:685:SER:OG	2.50	0.45
1:H:158:LEU:HB3	1:H:193:ALA:HB3	1.97	0.45
1:I:459:LEU:HD23	1:I:467:VAL:HG13	1.98	0.45
1:J:813:LYS:HD2	1:J:813:LYS:HA	1.78	0.45
1:I:615:ASP:HB2	1:I:665:THR:OG1	2.16	0.45
1:J:537:LEU:HD13	1:J:742:SER:HB2	1.99	0.45
1:K:459:LEU:HD23	1:K:467:VAL:HG13	1.98	0.45
1:D:838:LYS:O	1:D:841:ALA:HB3	2.16	0.45
1:K:283:CYS:O	1:K:286:HIS:ND1	2.47	0.45
1:J:759:LEU:HD12	1:J:786:GLY:HA3	1.98	0.45
1:A:367:TYR:O	1:A:370:LEU:HB2	2.17	0.45
1:B:770:LEU:HD23	1:B:770:LEU:HA	1.74	0.45
1:G:410:PRO:HD3	1:G:437:PRO:HD2	1.98	0.45
1:A:179:LEU:HB2	1:A:246:LEU:HD22	1.97	0.45
1:I:126:ILE:HG23	1:I:342:VAL:HG21	1.99	0.45
1:F:126:ILE:HG23	1:F:342:VAL:HG21	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:122:GLU:HA	1:K:123:ASP:CB	2.46	0.45
1:A:389:SER:HA	1:A:392:TYR:CD2	2.51	0.45
1:F:389:SER:HA	1:F:392:TYR:CD2	2.51	0.45
1:F:770:LEU:HB2	1:F:798:LEU:HD23	1.99	0.45
1:A:363:PHE:CD1	1:A:446:PHE:CE1	3.04	0.45
1:K:396:LEU:HA	1:K:396:LEU:HD23	1.81	0.45
1:G:241:LYS:HG2	1:G:241:LYS:O	2.16	0.45
1:A:241:LYS:O	1:A:241:LYS:HG2	2.16	0.45
1:E:947:HIS:NE2	1:E:949:VAL:HB	2.31	0.45
1:H:947:HIS:NE2	1:H:949:VAL:HB	2.32	0.45
1:E:985:ARG:O	1:E:988:SER:OG	2.19	0.45
1:A:751:LEU:HB3	1:A:752:PRO:HD2	1.98	0.45
1:A:615:ASP:HB2	1:A:665:THR:OG1	2.16	0.45
1:H:833:THR:O	1:H:836:SER:OG	2.32	0.45
1:F:405:LYS:HE2	1:F:407:ASP:O	2.16	0.45
1:B:108:LEU:HD23	1:B:108:LEU:HA	1.84	0.45
1:C:751:LEU:HB3	1:C:752:PRO:HD2	1.98	0.45
1:E:523:VAL:CG2	1:E:545:VAL:HB	2.46	0.45
1:J:455:LEU:HD23	1:J:455:LEU:HA	1.69	0.45
1:I:476:LYS:HB3	1:I:487:TYR:HE2	1.81	0.45
1:K:915:LYS:HE3	1:K:915:LYS:HB2	1.70	0.45
1:D:367:TYR:O	1:D:370:LEU:HB2	2.17	0.45
1:E:367:TYR:O	1:E:370:LEU:HB2	2.17	0.45
1:H:970:PHE:CE1	1:H:1000:VAL:HG13	2.52	0.45
1:G:126:ILE:HG23	1:G:342:VAL:HG21	1.99	0.45
1:C:613:LYS:HZ2	1:C:663:GLU:HB2	1.82	0.45
1:F:515:HIS:O	1:F:550:ASN:HB2	2.16	0.45
1:E:363:PHE:CD1	1:E:446:PHE:CE1	3.04	0.45
1:C:356:ALA:HB3	1:C:358:THR:O	2.16	0.45
1:J:245:PHE:HE2	1:J:273:ASN:HB2	1.80	0.45
1:A:289:HIS:HE1	1:B:119:PRO:HA	1.81	0.45
1:B:122:GLU:HA	1:B:123:ASP:CB	2.46	0.45
1:F:237:LEU:O	1:F:240:HIS:CE1	2.70	0.45
1:B:237:LEU:O	1:B:240:HIS:CE1	2.70	0.45
1:K:213:PHE:CE1	1:K:214:GLU:HG2	2.51	0.45
1:K:614:LEU:HD22	1:K:616:PHE:CZ	2.51	0.45
1:C:985:ARG:O	1:C:988:SER:OG	2.19	0.45
1:G:838:LYS:O	1:G:841:ALA:HB3	2.16	0.45
1:H:838:LYS:O	1:H:841:ALA:HB3	2.16	0.45
1:E:459:LEU:HD23	1:E:467:VAL:HG13	1.98	0.45
1:B:615:ASP:HB2	1:B:665:THR:OG1	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:537:LEU:HD13	1:F:742:SER:HB2	1.98	0.45
1:J:476:LYS:HB3	1:J:487:TYR:HE2	1.81	0.45
1:B:367:TYR:O	1:B:370:LEU:HB2	2.17	0.45
1:F:367:TYR:O	1:F:370:LEU:HB2	2.17	0.45
1:I:798:LEU:HB2	1:I:808:MET:CE	2.47	0.45
1:D:126:ILE:HG23	1:D:342:VAL:HG21	1.99	0.45
1:B:515:HIS:O	1:B:550:ASN:HB2	2.16	0.45
1:C:289:HIS:HE1	1:D:119:PRO:HA	1.81	0.45
1:K:241:LYS:HG2	1:K:241:LYS:O	2.16	0.45
1:H:985:ARG:NE	1:I:685:SER:OG	2.50	0.45
1:J:833:THR:O	1:J:836:SER:OG	2.32	0.45
1:D:751:LEU:HB3	1:D:752:PRO:HD2	1.98	0.45
1:H:615:ASP:HB2	1:H:665:THR:OG1	2.16	0.45
1:A:523:VAL:CG2	1:A:545:VAL:HB	2.46	0.45
1:F:476:LYS:HB3	1:F:487:TYR:HE2	1.81	0.45
1:C:828:VAL:HG22	1:C:856:SER:O	2.17	0.45
1:D:828:VAL:HG22	1:D:856:SER:O	2.17	0.45
1:C:899:LEU:O	1:C:902:GLN:HB2	2.17	0.45
1:K:367:TYR:O	1:K:370:LEU:HB2	2.17	0.45
1:H:828:VAL:HG22	1:H:856:SER:O	2.17	0.45
1:I:892:VAL:HG11	1:I:917:TRP:HA	1.98	0.45
1:C:367:TYR:O	1:C:370:LEU:HB2	2.17	0.45
1:E:770:LEU:HB2	1:E:798:LEU:HD23	1.99	0.45
1:G:798:LEU:HB2	1:G:808:MET:CE	2.47	0.45
1:I:970:PHE:CE1	1:I:1000:VAL:HG13	2.52	0.45
1:E:657:GLN:HA	1:E:658:GLU:HA	1.75	0.45
1:J:941:GLN:HG3	1:J:969:PHE:HB3	1.97	0.45
1:E:356:ALA:HB3	1:E:358:THR:O	2.16	0.45
1:J:241:LYS:O	1:J:241:LYS:HG2	2.16	0.45
1:D:237:LEU:O	1:D:240:HIS:CE1	2.70	0.45
1:D:240:HIS:O	1:D:241:LYS:HB2	2.17	0.45
1:D:241:LYS:HG2	1:D:241:LYS:O	2.16	0.45
1:C:240:HIS:O	1:C:241:LYS:HB2	2.17	0.45
1:B:213:PHE:CE1	1:B:214:GLU:HG2	2.51	0.45
1:E:759:LEU:HD12	1:E:786:GLY:HA3	1.98	0.45
1:G:751:LEU:HB3	1:G:752:PRO:HD2	1.98	0.45
1:K:537:LEU:HD13	1:K:742:SER:HB2	1.99	0.45
1:J:838:LYS:O	1:J:841:ALA:HB3	2.16	0.45
1:J:118:TYR:HA	1:J:119:PRO:HD2	1.77	0.45
1:D:455:LEU:HA	1:D:455:LEU:HD23	1.69	0.45
1:E:828:VAL:HG22	1:E:856:SER:O	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:896:LEU:HD12	1:A:899:LEU:HD23	1.99	0.45
1:G:919:LEU:HD22	1:G:923:GLU:HG2	1.99	0.45
1:E:798:LEU:HB2	1:E:808:MET:CE	2.47	0.45
1:G:770:LEU:HB2	1:G:798:LEU:HD23	1.99	0.45
1:E:179:LEU:HB2	1:E:246:LEU:HD22	1.97	0.45
1:J:126:ILE:HG23	1:J:342:VAL:HG21	1.99	0.45
1:D:363:PHE:CD1	1:D:446:PHE:CE1	3.04	0.45
1:A:997:LEU:HD23	1:A:1019:PHE:CD2	2.52	0.45
1:D:356:ALA:HB3	1:D:358:THR:O	2.16	0.45
1:G:237:LEU:O	1:G:240:HIS:CE1	2.70	0.45
1:E:237:LEU:O	1:E:240:HIS:CE1	2.70	0.45
1:E:240:HIS:O	1:E:241:LYS:HB2	2.17	0.45
1:B:240:HIS:O	1:B:241:LYS:HB2	2.17	0.45
1:B:241:LYS:O	1:B:241:LYS:HG2	2.16	0.45
1:A:759:LEU:HD12	1:A:786:GLY:HA3	1.98	0.45
1:B:813:LYS:HD2	1:B:813:LYS:HA	1.78	0.45
1:G:108:LEU:HD23	1:G:108:LEU:HA	1.84	0.45
1:J:934:ASN:HA	1:J:935:PRO:HD3	1.78	0.45
1:K:838:LYS:O	1:K:841:ALA:HB3	2.16	0.45
1:A:309:ILE:HG12	1:A:341:VAL:HG13	1.99	0.45
1:H:455:LEU:HD23	1:H:458:LEU:HD12	1.99	0.45
1:B:896:LEU:HD12	1:B:899:LEU:HD23	1.99	0.45
1:G:367:TYR:O	1:G:370:LEU:HB2	2.17	0.45
1:I:896:LEU:HD12	1:I:899:LEU:HD23	1.99	0.45
1:A:919:LEU:HD22	1:A:923:GLU:HG2	1.99	0.45
1:K:892:VAL:O	1:K:895:SER:OG	2.15	0.45
1:K:896:LEU:HD12	1:K:899:LEU:HD23	1.99	0.45
1:K:919:LEU:HD22	1:K:923:GLU:HG2	1.99	0.45
1:K:798:LEU:HB2	1:K:808:MET:CE	2.47	0.45
1:K:433:GLN:O	1:A:349:MET:HG3	2.17	0.45
1:K:179:LEU:HB2	1:K:246:LEU:HD22	1.98	0.45
1:I:179:LEU:HB2	1:I:246:LEU:HD22	1.97	0.45
1:H:126:ILE:HG23	1:H:342:VAL:HG21	1.99	0.45
1:K:126:ILE:HG23	1:K:342:VAL:HG21	1.99	0.45
1:E:515:HIS:O	1:E:550:ASN:HB2	2.16	0.45
1:F:613:LYS:HZ2	1:F:663:GLU:HB2	1.82	0.45
1:B:363:PHE:CD1	1:B:446:PHE:CE1	3.04	0.45
1:C:363:PHE:CD1	1:C:446:PHE:CE1	3.04	0.45
1:I:356:ALA:HB3	1:I:358:THR:O	2.16	0.45
1:C:997:LEU:HD23	1:C:1019:PHE:CD2	2.52	0.45
1:G:118:TYR:HA	1:G:119:PRO:HD2	1.77	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:289:HIS:HE1	1:F:119:PRO:HA	1.82	0.45
1:I:237:LEU:O	1:I:240:HIS:CE1	2.70	0.45
1:A:240:HIS:O	1:A:241:LYS:HB2	2.17	0.45
1:C:237:LEU:O	1:C:240:HIS:CE1	2.70	0.45
1:J:970:PHE:CE1	1:J:1000:VAL:HG13	2.52	0.45
1:C:309:ILE:HG12	1:C:341:VAL:HG13	1.99	0.45
1:F:615:ASP:HB2	1:F:665:THR:OG1	2.16	0.45
1:F:838:LYS:O	1:F:841:ALA:HB3	2.16	0.45
1:J:316:ASP:O	1:J:320:ARG:HG3	2.17	0.45
1:G:455:LEU:HD23	1:G:458:LEU:HD12	1.99	0.44
1:G:476:LYS:HB3	1:G:487:TYR:HE2	1.81	0.44
1:D:892:VAL:HG11	1:D:917:TRP:HA	1.98	0.44
1:H:367:TYR:O	1:H:370:LEU:HB2	2.17	0.44
1:F:899:LEU:O	1:F:902:GLN:HB2	2.17	0.44
1:I:899:LEU:O	1:I:902:GLN:HB2	2.17	0.44
1:I:919:LEU:HD22	1:I:923:GLU:HG2	2.00	0.44
1:J:896:LEU:HD12	1:J:899:LEU:HD23	1.99	0.44
1:J:899:LEU:O	1:J:902:GLN:HB2	2.17	0.44
1:J:919:LEU:HD22	1:J:923:GLU:HG2	1.99	0.44
1:A:798:LEU:HB2	1:A:808:MET:CE	2.47	0.44
1:E:126:ILE:HG23	1:E:342:VAL:HG21	1.99	0.44
1:B:126:ILE:HG23	1:B:342:VAL:HG21	1.99	0.44
1:G:657:GLN:HA	1:G:658:GLU:HA	1.76	0.44
1:J:366:PHE:CD2	1:J:446:PHE:CE2	3.06	0.44
1:H:241:LYS:HG2	1:H:241:LYS:O	2.16	0.44
1:F:241:LYS:O	1:F:241:LYS:HG2	2.16	0.44
1:B:947:HIS:NE2	1:B:949:VAL:HB	2.32	0.44
1:A:166:LEU:HG	1:A:291:GLY:HA3	2.00	0.44
1:A:985:ARG:O	1:A:988:SER:OG	2.19	0.44
1:E:309:ILE:HG12	1:E:341:VAL:HG13	1.99	0.44
1:D:316:ASP:O	1:D:320:ARG:HG3	2.17	0.44
1:E:537:LEU:HD13	1:E:742:SER:HB2	1.99	0.44
1:J:459:LEU:HD23	1:J:467:VAL:HG13	1.98	0.44
1:E:838:LYS:O	1:E:841:ALA:HB3	2.16	0.44
1:I:316:ASP:O	1:I:320:ARG:HG3	2.17	0.44
1:G:433:GLN:CG	1:H:125:ASP:H	2.18	0.44
1:J:455:LEU:HD23	1:J:458:LEU:HD12	1.99	0.44
1:F:455:LEU:HD23	1:F:458:LEU:HD12	1.99	0.44
1:I:455:LEU:HD23	1:I:458:LEU:HD12	1.99	0.44
1:D:899:LEU:O	1:D:902:GLN:HB2	2.17	0.44
1:D:868:LEU:HD11	1:D:917:TRP:CZ2	2.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:899:LEU:O	1:E:902:GLN:HB2	2.17	0.44
1:B:919:LEU:HD22	1:B:923:GLU:HG2	1.99	0.44
1:F:828:VAL:HG22	1:F:856:SER:O	2.17	0.44
1:K:899:LEU:O	1:K:902:GLN:HB2	2.17	0.44
1:K:892:VAL:HG11	1:K:917:TRP:HA	1.98	0.44
1:G:203:ILE:O	1:G:248:ASP:N	2.40	0.44
1:C:126:ILE:HG23	1:C:342:VAL:HG21	1.99	0.44
1:H:798:LEU:HB2	1:H:808:MET:CE	2.47	0.44
1:F:798:LEU:HB2	1:F:808:MET:CE	2.47	0.44
1:I:997:LEU:HD23	1:I:1019:PHE:CD2	2.52	0.44
1:D:366:PHE:CD2	1:D:446:PHE:CE2	3.06	0.44
1:C:241:LYS:HG2	1:C:241:LYS:O	2.16	0.44
1:F:947:HIS:NE2	1:F:949:VAL:HB	2.31	0.44
1:B:759:LEU:HD12	1:B:786:GLY:HA3	1.98	0.44
1:B:166:LEU:HG	1:B:291:GLY:HA3	2.00	0.44
1:C:166:LEU:HG	1:C:291:GLY:HA3	2.00	0.44
1:K:166:LEU:HG	1:K:291:GLY:HA3	2.00	0.44
1:G:970:PHE:CE1	1:G:1000:VAL:HG13	2.52	0.44
1:C:316:ASP:O	1:C:320:ARG:HG3	2.17	0.44
1:A:833:THR:O	1:A:836:SER:OG	2.32	0.44
1:B:459:LEU:HD23	1:B:467:VAL:HG13	1.98	0.44
1:K:316:ASP:O	1:K:320:ARG:HG3	2.17	0.44
1:A:316:ASP:O	1:A:320:ARG:HG3	2.17	0.44
1:B:316:ASP:O	1:B:320:ARG:HG3	2.17	0.44
1:B:476:LYS:HB3	1:B:487:TYR:HE2	1.81	0.44
1:B:828:VAL:HG22	1:B:856:SER:O	2.17	0.44
1:D:421:LEU:O	1:D:425:GLY:N	2.42	0.44
1:H:896:LEU:HD12	1:H:899:LEU:HD23	1.99	0.44
1:H:919:LEU:HD22	1:H:923:GLU:HG2	1.99	0.44
1:D:798:LEU:HB2	1:D:808:MET:CE	2.47	0.44
1:A:331:LEU:HA	1:A:334:LEU:HG	2.00	0.44
1:A:366:PHE:CD2	1:A:446:PHE:CE2	3.06	0.44
1:I:366:PHE:CD2	1:I:446:PHE:CE2	3.06	0.44
1:F:997:LEU:HD23	1:F:1019:PHE:CD2	2.52	0.44
1:E:366:PHE:CD2	1:E:446:PHE:CE2	3.06	0.44
1:B:366:PHE:CD2	1:B:446:PHE:CE2	3.06	0.44
1:C:366:PHE:CD2	1:C:446:PHE:CE2	3.06	0.44
1:K:366:PHE:CD2	1:K:446:PHE:CE2	3.06	0.44
1:B:617:TYR:CD2	1:B:618:GLU:HB2	2.53	0.44
1:H:237:LEU:O	1:H:240:HIS:CE1	2.70	0.44
1:D:947:HIS:NE2	1:D:949:VAL:HB	2.32	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:532:GLU:OE1	1:H:744:HIS:ND1	2.41	0.44
1:D:166:LEU:HG	1:D:291:GLY:HA3	2.00	0.44
1:C:970:PHE:CE1	1:C:1000:VAL:HG13	2.52	0.44
1:I:537:LEU:HD13	1:I:742:SER:CB	2.48	0.44
1:H:164:PRO:HG2	1:H:290:VAL:HG12	1.99	0.44
1:I:164:PRO:HG2	1:I:290:VAL:HG12	2.00	0.44
1:E:316:ASP:O	1:E:320:ARG:HG3	2.17	0.44
1:H:476:LYS:HB3	1:H:487:TYR:HE2	1.81	0.44
1:B:868:LEU:HD11	1:B:917:TRP:CZ2	2.53	0.44
1:B:892:VAL:HG11	1:B:917:TRP:HA	1.98	0.44
1:F:919:LEU:HD22	1:F:923:GLU:HG2	1.99	0.44
1:H:899:LEU:O	1:H:902:GLN:HB2	2.17	0.44
1:D:388:ARG:O	1:D:392:TYR:N	2.45	0.44
1:E:331:LEU:HA	1:E:334:LEU:HG	2.00	0.44
1:G:331:LEU:HA	1:G:334:LEU:HG	2.00	0.44
1:G:617:TYR:CD2	1:G:618:GLU:HB2	2.53	0.44
1:C:122:GLU:HA	1:C:123:ASP:CB	2.46	0.44
1:J:237:LEU:O	1:J:240:HIS:CE1	2.70	0.44
1:A:237:LEU:O	1:A:240:HIS:CE1	2.70	0.44
1:G:947:HIS:NE2	1:G:949:VAL:HB	2.32	0.44
1:C:947:HIS:NE2	1:C:949:VAL:HB	2.32	0.44
1:J:616:PHE:CD2	1:J:680:LEU:HD21	2.53	0.44
1:D:759:LEU:HD12	1:D:786:GLY:HA3	1.98	0.44
1:J:166:LEU:HG	1:J:291:GLY:HA3	2.00	0.44
1:K:970:PHE:CE1	1:K:1000:VAL:HG13	2.52	0.44
1:J:537:LEU:HD13	1:J:742:SER:CB	2.48	0.44
1:E:537:LEU:HD13	1:E:742:SER:CB	2.48	0.44
1:K:164:PRO:HG2	1:K:290:VAL:HG12	2.00	0.44
1:F:309:ILE:HG12	1:F:341:VAL:HG13	1.99	0.44
1:D:459:LEU:HD23	1:D:467:VAL:HG13	1.98	0.44
1:I:751:LEU:HB3	1:I:752:PRO:HD2	1.98	0.44
1:J:309:ILE:HG12	1:J:341:VAL:HG13	1.99	0.44
1:E:455:LEU:HD23	1:E:458:LEU:HD12	2.00	0.44
1:H:455:LEU:HD23	1:H:455:LEU:HA	1.69	0.44
1:C:896:LEU:HD12	1:C:899:LEU:HD23	1.99	0.44
1:J:367:TYR:O	1:J:370:LEU:HB2	2.17	0.44
1:J:868:LEU:HD11	1:J:917:TRP:CZ2	2.53	0.44
1:J:798:LEU:HB2	1:J:808:MET:CE	2.47	0.44
1:A:126:ILE:HG23	1:A:342:VAL:HG21	1.99	0.44
1:C:331:LEU:HA	1:C:334:LEU:HG	2.00	0.44
1:D:997:LEU:HD23	1:D:1019:PHE:CD2	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:617:TYR:CD2	1:D:618:GLU:HB2	2.53	0.44
1:A:617:TYR:CD2	1:A:618:GLU:HB2	2.53	0.44
1:F:240:HIS:O	1:F:241:LYS:HB2	2.17	0.44
1:C:616:PHE:CD2	1:C:680:LEU:HD21	2.53	0.44
1:E:166:LEU:HG	1:E:291:GLY:HA3	2.00	0.44
1:I:833:THR:O	1:I:836:SER:OG	2.32	0.44
1:I:928:GLY:HA2	1:I:931:LEU:HB2	2.00	0.44
1:I:838:LYS:O	1:I:841:ALA:HB3	2.16	0.44
1:B:928:GLY:HA2	1:B:931:LEU:HB2	2.00	0.44
1:G:164:PRO:HG2	1:G:290:VAL:HG12	2.00	0.44
1:K:751:LEU:HB3	1:K:752:PRO:HD2	1.98	0.44
1:A:537:LEU:HD13	1:A:742:SER:HB2	1.98	0.44
1:D:896:LEU:HD12	1:D:899:LEU:HD23	1.99	0.44
1:G:828:VAL:HG22	1:G:856:SER:O	2.17	0.44
1:G:868:LEU:HD11	1:G:917:TRP:CZ2	2.53	0.44
1:H:868:LEU:HD11	1:H:917:TRP:CZ2	2.53	0.44
1:A:770:LEU:HB2	1:A:798:LEU:HD23	1.99	0.44
1:K:770:LEU:HB2	1:K:798:LEU:HD23	1.99	0.44
1:H:388:ARG:O	1:H:392:TYR:N	2.45	0.44
1:D:331:LEU:HA	1:D:334:LEU:HG	2.00	0.44
1:K:331:LEU:HA	1:K:334:LEU:HG	2.00	0.44
1:F:331:LEU:HA	1:F:334:LEU:HG	2.00	0.44
1:J:331:LEU:HA	1:J:334:LEU:HG	2.00	0.44
1:G:613:LYS:HZ2	1:G:663:GLU:HB2	1.83	0.44
1:G:997:LEU:HD23	1:G:1019:PHE:CD2	2.52	0.44
1:H:366:PHE:CD2	1:H:446:PHE:CE2	3.06	0.44
1:F:366:PHE:CD2	1:F:446:PHE:CE2	3.06	0.44
1:H:617:TYR:CD2	1:H:618:GLU:HB2	2.53	0.44
1:K:240:HIS:O	1:K:241:LYS:HB2	2.17	0.44
1:C:759:LEU:HD12	1:C:786:GLY:HA3	1.98	0.44
1:F:166:LEU:HG	1:F:291:GLY:HA3	2.00	0.44
1:H:217:TYR:HD1	1:H:221:LEU:HA	1.83	0.44
1:J:217:TYR:HD1	1:J:221:LEU:HA	1.83	0.44
1:F:537:LEU:HD13	1:F:742:SER:CB	2.48	0.44
1:K:537:LEU:HD13	1:K:742:SER:CB	2.48	0.44
1:A:928:GLY:HA2	1:A:931:LEU:HB2	2.00	0.44
1:J:164:PRO:HG2	1:J:290:VAL:HG12	2.00	0.44
1:H:928:GLY:HA2	1:H:931:LEU:HB2	2.00	0.44
1:C:928:GLY:HA2	1:C:931:LEU:HB2	2.00	0.44
1:H:309:ILE:HG12	1:H:341:VAL:HG13	1.99	0.44
1:F:316:ASP:O	1:F:320:ARG:HG3	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:751:LEU:HB3	1:B:752:PRO:HD2	1.98	0.44
1:D:537:LEU:HD13	1:D:742:SER:HB2	1.98	0.44
1:H:316:ASP:O	1:H:320:ARG:HG3	2.17	0.44
1:K:398:LEU:HD22	1:K:402:PHE:HE2	1.83	0.44
1:K:398:LEU:HD23	1:K:398:LEU:HA	1.78	0.44
1:K:455:LEU:HD23	1:K:458:LEU:HD12	1.99	0.44
1:D:455:LEU:HD23	1:D:458:LEU:HD12	1.99	0.44
1:D:919:LEU:HD22	1:D:923:GLU:HG2	1.99	0.44
1:C:919:LEU:HD22	1:C:923:GLU:HG2	1.99	0.44
1:E:919:LEU:HD22	1:E:923:GLU:HG2	1.99	0.44
1:B:798:LEU:HB2	1:B:808:MET:CE	2.47	0.44
1:I:367:TYR:O	1:I:370:LEU:HB2	2.17	0.44
1:D:770:LEU:HB2	1:D:798:LEU:HD23	1.99	0.44
1:H:182:ILE:HD12	1:H:182:ILE:HA	1.83	0.44
1:G:366:PHE:HD2	1:G:446:PHE:CE2	2.36	0.44
1:B:997:LEU:HD23	1:B:1019:PHE:CD2	2.52	0.44
1:F:356:ALA:HB3	1:F:358:THR:O	2.16	0.44
1:F:617:TYR:CD2	1:F:618:GLU:HB2	2.53	0.44
1:K:617:TYR:CD2	1:K:618:GLU:HB2	2.53	0.44
1:I:240:HIS:O	1:I:241:LYS:HB2	2.17	0.44
1:F:616:PHE:CD2	1:F:680:LEU:HD21	2.53	0.44
1:K:616:PHE:CD2	1:K:680:LEU:HD21	2.53	0.44
1:F:217:TYR:HD1	1:F:221:LEU:HA	1.83	0.44
1:I:166:LEU:HG	1:I:291:GLY:HA3	2.00	0.44
1:G:309:ILE:HG12	1:G:341:VAL:HG13	1.99	0.44
1:J:928:GLY:HA2	1:J:931:LEU:HB2	2.00	0.44
1:F:283:CYS:O	1:F:286:HIS:ND1	2.47	0.44
1:A:455:LEU:HD23	1:A:458:LEU:HD12	1.99	0.44
1:A:828:VAL:HG22	1:A:856:SER:O	2.17	0.44
1:E:896:LEU:HD12	1:E:899:LEU:HD23	1.99	0.44
1:K:421:LEU:O	1:K:425:GLY:N	2.42	0.44
1:K:828:VAL:HG22	1:K:856:SER:O	2.17	0.44
1:H:770:LEU:HB2	1:H:798:LEU:HD23	1.99	0.44
1:A:534:ILE:CG2	1:A:613:LYS:HZ1	2.31	0.44
1:I:331:LEU:HA	1:I:334:LEU:HG	2.00	0.44
1:H:366:PHE:HD2	1:H:446:PHE:CE2	2.36	0.44
1:H:997:LEU:HD23	1:H:1019:PHE:CD2	2.52	0.44
1:C:799:THR:HB	1:C:826:LYS:HD3	2.00	0.44
1:C:662:LEU:HA	1:C:662:LEU:HD23	1.82	0.44
1:G:616:PHE:CD2	1:G:680:LEU:HD21	2.53	0.44
1:I:616:PHE:CD2	1:I:680:LEU:HD21	2.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:166:LEU:HG	1:H:291:GLY:HA3	2.00	0.44
1:A:537:LEU:HD13	1:A:742:SER:CB	2.48	0.44
1:D:537:LEU:HD13	1:D:742:SER:CB	2.48	0.44
1:B:169:GLY:HA3	1:B:297:VAL:HB	2.00	0.44
1:C:459:LEU:HD23	1:C:467:VAL:HG13	1.98	0.44
1:K:928:GLY:HA2	1:K:931:LEU:HB2	2.00	0.44
1:K:184:MET:O	1:K:188:SER:OG	2.28	0.44
1:I:828:VAL:HG22	1:I:856:SER:O	2.17	0.44
1:A:899:LEU:O	1:A:902:GLN:HB2	2.17	0.44
1:B:331:LEU:HA	1:B:334:LEU:HG	2.00	0.44
1:F:366:PHE:HD2	1:F:446:PHE:CE2	2.36	0.44
1:J:997:LEU:HD23	1:J:1019:PHE:CD2	2.52	0.44
1:I:617:TYR:CD2	1:I:618:GLU:HB2	2.53	0.44
1:J:240:HIS:O	1:J:241:LYS:HB2	2.17	0.44
1:A:756:ILE:HG13	1:A:756:ILE:H	1.66	0.44
1:G:166:LEU:HG	1:G:291:GLY:HA3	2.00	0.44
1:A:164:PRO:HG2	1:A:290:VAL:HG12	2.00	0.44
1:E:970:PHE:CE1	1:E:1000:VAL:HG13	2.52	0.44
1:A:970:PHE:CE1	1:A:1000:VAL:HG13	2.52	0.44
1:B:970:PHE:CE1	1:B:1000:VAL:HG13	2.52	0.44
1:J:258:CYS:SG	1:J:259:PRO:HD3	2.58	0.44
1:E:820:CYS:SG	1:E:822:LEU:HB2	2.58	0.44
1:A:258:CYS:SG	1:A:259:PRO:HD3	2.58	0.44
1:D:309:ILE:HG12	1:D:341:VAL:HG13	1.99	0.44
1:K:309:ILE:HG12	1:K:341:VAL:HG13	1.99	0.44
1:B:770:LEU:HB2	1:B:798:LEU:HD23	1.99	0.43
1:F:370:LEU:HD23	1:F:370:LEU:HA	1.66	0.43
1:E:990:VAL:O	1:E:994:LEU:HG	2.18	0.43
1:G:366:PHE:CD2	1:G:446:PHE:CE2	3.06	0.43
1:D:799:THR:HB	1:D:826:LYS:HD3	2.00	0.43
1:C:617:TYR:CD2	1:C:618:GLU:HB2	2.53	0.43
1:H:240:HIS:O	1:H:241:LYS:HB2	2.17	0.43
1:E:616:PHE:CD2	1:E:680:LEU:HD21	2.53	0.43
1:G:217:TYR:HD1	1:G:221:LEU:HA	1.83	0.43
1:H:537:LEU:HD13	1:H:742:SER:CB	2.48	0.43
1:C:169:GLY:HA3	1:C:297:VAL:HB	2.00	0.43
1:D:169:GLY:HA3	1:D:297:VAL:HB	2.00	0.43
1:B:537:LEU:HD13	1:B:742:SER:HB2	1.99	0.43
1:K:984:VAL:O	1:K:987:LEU:HB3	2.18	0.43
1:E:984:VAL:O	1:E:987:LEU:HB3	2.18	0.43
1:F:984:VAL:O	1:F:987:LEU:HB3	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:820:CYS:SG	1:D:822:LEU:HB2	2.58	0.43
1:F:164:PRO:HG2	1:F:290:VAL:HG12	1.99	0.43
1:D:928:GLY:HA2	1:D:931:LEU:HB2	2.00	0.43
1:K:820:CYS:SG	1:K:822:LEU:HB2	2.58	0.43
1:C:820:CYS:SG	1:C:822:LEU:HB2	2.58	0.43
1:A:820:CYS:SG	1:A:822:LEU:HB2	2.58	0.43
1:B:455:LEU:HD23	1:B:458:LEU:HD12	1.99	0.43
1:J:828:VAL:HG22	1:J:856:SER:O	2.17	0.43
1:F:868:LEU:HD11	1:F:917:TRP:CZ2	2.53	0.43
1:F:896:LEU:HD12	1:F:899:LEU:HD23	1.99	0.43
1:G:896:LEU:HD12	1:G:899:LEU:HD23	1.99	0.43
1:H:331:LEU:HA	1:H:334:LEU:HG	2.00	0.43
1:E:617:TYR:CD2	1:E:618:GLU:HB2	2.53	0.43
1:J:617:TYR:CD2	1:J:618:GLU:HB2	2.53	0.43
1:K:217:TYR:HD1	1:K:221:LEU:HA	1.83	0.43
1:G:240:HIS:O	1:G:241:LYS:HB2	2.17	0.43
1:I:985:ARG:HE	1:J:685:SER:CB	2.31	0.43
1:K:237:LEU:O	1:K:240:HIS:CE1	2.70	0.43
1:E:217:TYR:HD1	1:E:221:LEU:HA	1.83	0.43
1:F:970:PHE:CE1	1:F:1000:VAL:HG13	2.52	0.43
1:E:742:SER:OG	1:E:769:ILE:O	2.29	0.43
1:K:258:CYS:SG	1:K:259:PRO:HD3	2.58	0.43
1:G:928:GLY:HA2	1:G:931:LEU:HB2	2.00	0.43
1:B:820:CYS:SG	1:B:822:LEU:HB2	2.58	0.43
1:E:169:GLY:HA3	1:E:297:VAL:HB	2.00	0.43
1:C:537:LEU:HD13	1:C:742:SER:HB2	1.98	0.43
1:E:928:GLY:HA2	1:E:931:LEU:HB2	2.00	0.43
1:H:984:VAL:O	1:H:987:LEU:HB3	2.18	0.43
1:F:820:CYS:SG	1:F:822:LEU:HB2	2.58	0.43
1:E:934:ASN:HA	1:E:935:PRO:HD3	1.78	0.43
1:I:984:VAL:O	1:I:987:LEU:HB3	2.18	0.43
1:E:868:LEU:HD11	1:E:917:TRP:CZ2	2.53	0.43
1:A:370:LEU:HA	1:A:370:LEU:HD23	1.66	0.43
1:I:868:LEU:HD11	1:I:917:TRP:CZ2	2.53	0.43
1:G:899:LEU:O	1:G:902:GLN:HB2	2.17	0.43
1:C:770:LEU:HD23	1:C:770:LEU:HA	1.74	0.43
1:J:770:LEU:HB2	1:J:798:LEU:HD23	1.99	0.43
1:F:990:VAL:O	1:F:994:LEU:HG	2.18	0.43
1:I:613:LYS:HZ2	1:I:663:GLU:HB2	1.83	0.43
1:J:691:ARG:CZ	1:J:715:HIS:HD2	2.32	0.43
1:G:940:GLN:HA	1:G:968:VAL:HB	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:997:LEU:HD23	1:E:1019:PHE:CD2	2.52	0.43
1:H:940:GLN:HA	1:H:968:VAL:HB	2.01	0.43
1:B:799:THR:HB	1:B:826:LYS:HD3	2.01	0.43
1:I:241:LYS:O	1:I:241:LYS:HG2	2.16	0.43
1:C:990:VAL:O	1:C:994:LEU:HG	2.18	0.43
1:B:537:LEU:HD13	1:B:742:SER:CB	2.48	0.43
1:I:309:ILE:HG12	1:I:341:VAL:HG13	1.99	0.43
1:I:258:CYS:SG	1:I:259:PRO:HD3	2.59	0.43
1:J:984:VAL:O	1:J:987:LEU:HB3	2.18	0.43
1:K:833:THR:O	1:K:836:SER:OG	2.32	0.43
1:F:928:GLY:HA2	1:F:931:LEU:HB2	2.00	0.43
1:B:258:CYS:SG	1:B:259:PRO:HD3	2.58	0.43
1:J:398:LEU:HD23	1:J:398:LEU:HA	1.78	0.43
1:D:398:LEU:HA	1:D:398:LEU:HD23	1.78	0.43
1:I:398:LEU:HA	1:I:398:LEU:HD23	1.78	0.43
1:B:899:LEU:O	1:B:902:GLN:HB2	2.17	0.43
1:J:421:LEU:O	1:J:425:GLY:N	2.42	0.43
1:A:787:LEU:HD13	1:A:815:LEU:HD23	2.01	0.43
1:C:787:LEU:HD13	1:C:815:LEU:HD23	2.01	0.43
1:F:203:ILE:O	1:F:248:ASP:N	2.40	0.43
1:B:990:VAL:O	1:B:994:LEU:HG	2.18	0.43
1:J:550:ASN:HB3	1:J:553:SER:HB2	2.01	0.43
1:I:940:GLN:HA	1:I:968:VAL:HB	2.01	0.43
1:K:997:LEU:HD23	1:K:1019:PHE:CD2	2.52	0.43
1:B:366:PHE:HD2	1:B:446:PHE:CE2	2.36	0.43
1:E:799:THR:HB	1:E:826:LYS:HD3	2.00	0.43
1:J:797:HIS:HB3	1:J:826:LYS:HD2	2.00	0.43
1:A:799:THR:HB	1:A:826:LYS:HD3	2.00	0.43
1:G:990:VAL:O	1:G:994:LEU:HG	2.19	0.43
1:B:164:PRO:HG2	1:B:290:VAL:HG12	2.00	0.43
1:C:217:TYR:HD1	1:C:221:LEU:HA	1.83	0.43
1:F:985:ARG:O	1:F:988:SER:OG	2.19	0.43
1:E:985:ARG:NE	1:F:685:SER:OG	2.51	0.43
1:C:239:LEU:HB3	1:C:242:GLU:HB2	2.01	0.43
1:C:537:LEU:HD13	1:C:742:SER:CB	2.48	0.43
1:K:169:GLY:HA3	1:K:297:VAL:HB	2.00	0.43
1:D:695:LYS:NZ	1:D:720:GLU:OE2	2.51	0.43
1:J:820:CYS:SG	1:J:822:LEU:HB2	2.58	0.43
1:E:695:LYS:NZ	1:E:720:GLU:OE2	2.51	0.43
1:A:169:GLY:HA3	1:A:297:VAL:HB	2.00	0.43
1:G:820:CYS:SG	1:G:822:LEU:HB2	2.58	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:455:LEU:HD23	1:C:458:LEU:HD12	1.99	0.43
1:F:865:ASN:HB2	1:F:895:SER:CB	2.49	0.43
1:A:868:LEU:HD11	1:A:917:TRP:CZ2	2.53	0.43
1:H:422:VAL:HG13	1:H:428:CYS:HA	2.01	0.43
1:A:550:ASN:HB3	1:A:553:SER:HB2	2.01	0.43
1:K:550:ASN:HB3	1:K:553:SER:HB2	2.01	0.43
1:F:787:LEU:HD13	1:F:815:LEU:HD23	2.01	0.43
1:A:366:PHE:HD2	1:A:446:PHE:CE2	2.36	0.43
1:K:221:LEU:HD13	1:J:267:GLU:OE2	2.19	0.43
1:E:239:LEU:HB3	1:E:242:GLU:HB2	2.01	0.43
1:G:537:LEU:HD13	1:G:742:SER:CB	2.48	0.43
1:J:283:CYS:O	1:J:286:HIS:ND1	2.47	0.43
1:J:746:LEU:O	1:J:747:HIS:HB2	2.19	0.43
1:A:984:VAL:O	1:A:987:LEU:HB3	2.18	0.43
1:B:309:ILE:HG12	1:B:341:VAL:HG13	1.99	0.43
1:E:865:ASN:HB2	1:E:895:SER:CB	2.49	0.43
1:G:865:ASN:HB2	1:G:895:SER:CB	2.49	0.43
1:I:421:LEU:O	1:I:425:GLY:N	2.42	0.43
1:I:422:VAL:HG13	1:I:428:CYS:HA	2.01	0.43
1:D:787:LEU:HD13	1:D:815:LEU:HD23	2.01	0.43
1:J:798:LEU:HB2	1:J:808:MET:HE3	2.00	0.43
1:K:691:ARG:CZ	1:K:715:HIS:HD2	2.32	0.43
1:I:691:ARG:CZ	1:I:715:HIS:HD2	2.32	0.43
1:E:691:ARG:CZ	1:E:715:HIS:HD2	2.32	0.43
1:C:366:PHE:HD2	1:C:446:PHE:CE2	2.36	0.43
1:K:366:PHE:HD2	1:K:446:PHE:CE2	2.36	0.43
1:F:921:ASP:OD1	1:F:953:GLY:HA3	2.19	0.43
1:G:921:ASP:OD1	1:G:953:GLY:HA3	2.19	0.43
1:K:921:ASP:OD1	1:K:953:GLY:HA3	2.19	0.43
1:A:823:GLN:HA	1:A:850:LEU:HA	2.01	0.43
1:B:616:PHE:CD2	1:B:680:LEU:HD21	2.53	0.43
1:J:823:GLN:HA	1:J:850:LEU:HA	2.01	0.43
1:D:616:PHE:CD2	1:D:680:LEU:HD21	2.53	0.43
1:C:164:PRO:HG2	1:C:290:VAL:HG12	1.99	0.43
1:I:217:TYR:HD1	1:I:221:LEU:HA	1.83	0.43
1:C:258:CYS:SG	1:C:259:PRO:HD3	2.58	0.43
1:H:108:LEU:HA	1:H:108:LEU:HD23	1.84	0.43
1:G:316:ASP:O	1:G:320:ARG:HG3	2.17	0.43
1:E:164:PRO:HG2	1:E:290:VAL:HG12	2.00	0.43
1:B:984:VAL:O	1:B:987:LEU:HB3	2.18	0.43
1:H:258:CYS:SG	1:H:259:PRO:HD3	2.59	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:157:LEU:HD11	1:B:293:LEU:HD21	2.01	0.43
1:G:124:ILE:N	1:G:125:ASP:HA	2.34	0.43
1:C:398:LEU:HD23	1:C:398:LEU:HA	1.78	0.43
1:F:398:LEU:HA	1:F:398:LEU:HD23	1.78	0.43
1:C:868:LEU:HD11	1:C:917:TRP:CZ2	2.53	0.43
1:A:421:LEU:O	1:A:425:GLY:N	2.42	0.43
1:D:364:GLN:HA	1:D:367:TYR:CD2	2.32	0.43
1:K:868:LEU:HD11	1:K:917:TRP:CZ2	2.53	0.43
1:F:422:VAL:HG11	1:F:429:LYS:HG2	2.01	0.43
1:J:422:VAL:HG13	1:J:428:CYS:HA	2.01	0.43
1:E:787:LEU:HD13	1:E:815:LEU:HD23	2.01	0.43
1:A:422:VAL:HG13	1:A:428:CYS:HA	2.01	0.43
1:H:990:VAL:O	1:H:994:LEU:HG	2.18	0.43
1:K:203:ILE:O	1:K:248:ASP:N	2.40	0.43
1:H:787:LEU:HD13	1:H:815:LEU:HD23	2.01	0.43
1:D:657:GLN:HA	1:D:658:GLU:HA	1.75	0.43
1:I:366:PHE:HD2	1:I:446:PHE:CE2	2.36	0.43
1:C:448:GLU:OE1	1:C:493:TYR:OH	2.17	0.43
1:E:940:GLN:HA	1:E:968:VAL:HB	2.01	0.43
1:J:940:GLN:HA	1:J:968:VAL:HB	2.01	0.43
1:I:797:HIS:HB3	1:I:826:LYS:HD2	2.00	0.43
1:K:797:HIS:HB3	1:K:826:LYS:HD2	2.00	0.43
1:K:799:THR:HB	1:K:826:LYS:HD3	2.00	0.43
1:H:250:TYR:CG	1:H:279:THR:HA	2.54	0.43
1:A:616:PHE:CD2	1:A:680:LEU:HD21	2.53	0.43
1:B:217:TYR:HD1	1:B:221:LEU:HA	1.83	0.43
1:F:982:ALA:HA	1:F:985:ARG:NH1	2.34	0.43
1:F:985:ARG:HE	1:G:685:SER:CB	2.31	0.43
1:D:970:PHE:CE1	1:D:1000:VAL:HG13	2.52	0.43
1:D:320:ARG:NH1	1:D:352:GLN:O	2.41	0.43
1:H:320:ARG:NH1	1:H:352:GLN:O	2.41	0.43
1:H:820:CYS:SG	1:H:822:LEU:HB2	2.58	0.43
1:I:820:CYS:SG	1:I:822:LEU:HB2	2.58	0.43
1:I:746:LEU:O	1:I:747:HIS:HB2	2.19	0.43
1:G:984:VAL:O	1:G:987:LEU:HB3	2.18	0.43
1:K:746:LEU:O	1:K:747:HIS:HB2	2.19	0.43
1:D:865:ASN:HB2	1:D:895:SER:CB	2.49	0.43
1:B:787:LEU:HD13	1:B:815:LEU:HD23	2.01	0.43
1:H:865:ASN:HB2	1:H:895:SER:CB	2.49	0.43
1:C:770:LEU:HB2	1:C:798:LEU:HD23	1.99	0.43
1:D:422:VAL:HG11	1:D:429:LYS:HG2	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:787:LEU:HD13	1:J:815:LEU:HD23	2.01	0.43
1:G:787:LEU:HD13	1:G:815:LEU:HD23	2.01	0.43
1:I:770:LEU:HB2	1:I:798:LEU:HD23	1.99	0.43
1:A:691:ARG:NH2	1:A:739:GLN:OE1	2.52	0.43
1:F:334:LEU:HD22	1:F:340:PHE:CD2	2.54	0.43
1:G:691:ARG:NH2	1:G:739:GLN:OE1	2.52	0.43
1:F:940:GLN:HA	1:F:968:VAL:HB	2.01	0.43
1:E:366:PHE:HD2	1:E:446:PHE:CE2	2.36	0.43
1:E:797:HIS:HB3	1:E:826:LYS:HD2	2.00	0.43
1:F:797:HIS:HB3	1:F:826:LYS:HD2	2.00	0.43
1:F:799:THR:HB	1:F:826:LYS:HD3	2.00	0.43
1:A:797:HIS:HB3	1:A:826:LYS:HD2	2.00	0.43
1:F:250:TYR:CG	1:F:279:THR:HA	2.54	0.43
1:D:250:TYR:CG	1:D:279:THR:HA	2.54	0.43
1:H:823:GLN:HA	1:H:850:LEU:HA	2.01	0.43
1:H:982:ALA:HA	1:H:985:ARG:NH1	2.34	0.43
1:D:164:PRO:HG2	1:D:290:VAL:HG12	2.00	0.43
1:D:157:LEU:HD11	1:D:293:LEU:HD21	2.01	0.43
1:D:453:ARG:NH1	1:D:453:ARG:HG2	2.34	0.43
1:B:453:ARG:HG2	1:B:453:ARG:NH1	2.34	0.43
1:I:283:CYS:O	1:I:286:HIS:ND1	2.47	0.43
1:G:258:CYS:SG	1:G:259:PRO:HD3	2.58	0.43
1:K:124:ILE:N	1:K:125:ASP:HA	2.34	0.43
1:H:422:VAL:HG11	1:H:429:LYS:HG2	2.01	0.43
1:E:422:VAL:HG13	1:E:428:CYS:HA	2.01	0.43
1:F:422:VAL:HG13	1:F:428:CYS:HA	2.01	0.43
1:B:422:VAL:HG13	1:B:428:CYS:HA	2.01	0.43
1:B:550:ASN:HB3	1:B:553:SER:HB2	2.01	0.43
1:I:550:ASN:HB3	1:I:553:SER:HB2	2.01	0.43
1:B:334:LEU:HD22	1:B:340:PHE:CD2	2.54	0.43
1:D:334:LEU:HD22	1:D:340:PHE:CD2	2.54	0.43
1:I:334:LEU:HD22	1:I:340:PHE:CD2	2.54	0.43
1:D:691:ARG:CZ	1:D:715:HIS:HD2	2.32	0.43
1:J:799:THR:HB	1:J:826:LYS:HD3	2.00	0.43
1:C:749:GLN:CD	1:C:774:ARG:NH1	2.73	0.43
1:B:749:GLN:CD	1:B:774:ARG:NH1	2.73	0.43
1:D:749:GLN:CD	1:D:774:ARG:NH1	2.73	0.43
1:I:982:ALA:HA	1:I:985:ARG:NH1	2.34	0.43
1:C:921:ASP:OD1	1:C:953:GLY:HA3	2.19	0.43
1:J:921:ASP:OD1	1:J:953:GLY:HA3	2.19	0.43
1:J:250:TYR:CG	1:J:279:THR:HA	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:250:TYR:CG	1:E:279:THR:HA	2.54	0.43
1:K:823:GLN:HA	1:K:850:LEU:HA	2.01	0.43
1:B:823:GLN:HA	1:B:850:LEU:HA	2.01	0.43
1:C:823:GLN:HA	1:C:850:LEU:HA	2.01	0.43
1:A:662:LEU:HD23	1:A:662:LEU:HA	1.82	0.43
1:A:239:LEU:HB3	1:A:242:GLU:HB2	2.01	0.43
1:H:695:LYS:NZ	1:H:720:GLU:OE2	2.51	0.43
1:A:746:LEU:O	1:A:747:HIS:HB2	2.19	0.43
1:D:984:VAL:O	1:D:987:LEU:HB3	2.18	0.43
1:D:258:CYS:SG	1:D:259:PRO:HD3	2.58	0.43
1:F:695:LYS:NZ	1:F:720:GLU:OE2	2.51	0.43
1:G:169:GLY:HA3	1:G:297:VAL:HB	2.00	0.43
1:K:157:LEU:HD11	1:K:293:LEU:HD21	2.01	0.43
1:K:934:ASN:HA	1:K:935:PRO:HD3	1.78	0.43
1:F:470:GLY:O	1:F:473:TYR:HB2	2.19	0.43
1:F:124:ILE:N	1:F:125:ASP:HA	2.34	0.43
1:I:124:ILE:N	1:I:125:ASP:HA	2.34	0.43
1:G:455:LEU:HD23	1:G:455:LEU:HA	1.69	0.43
1:C:865:ASN:HB2	1:C:895:SER:CB	2.49	0.43
1:G:422:VAL:HG13	1:G:428:CYS:HA	2.01	0.43
1:K:422:VAL:HG13	1:K:428:CYS:HA	2.01	0.43
1:I:787:LEU:HD13	1:I:815:LEU:HD23	2.01	0.43
1:H:550:ASN:HB3	1:H:553:SER:HB2	2.01	0.43
1:K:691:ARG:NH2	1:K:739:GLN:OE1	2.52	0.43
1:J:366:PHE:HD2	1:J:446:PHE:CE2	2.36	0.43
1:H:490:LEU:HA	1:H:493:TYR:CD2	2.54	0.43
1:D:366:PHE:HD2	1:D:446:PHE:CE2	2.36	0.43
1:D:940:GLN:HA	1:D:968:VAL:HB	2.01	0.43
1:I:749:GLN:CD	1:I:774:ARG:NH1	2.73	0.43
1:D:823:GLN:HA	1:D:850:LEU:HA	2.01	0.43
1:A:250:TYR:CG	1:A:279:THR:HA	2.54	0.43
1:D:217:TYR:HD1	1:D:221:LEU:HA	1.83	0.43
1:A:982:ALA:HA	1:A:985:ARG:NH1	2.34	0.43
1:B:982:ALA:HA	1:B:985:ARG:NH1	2.34	0.43
1:E:982:ALA:HA	1:E:985:ARG:NH1	2.34	0.43
1:C:985:ARG:HE	1:D:685:SER:CB	2.31	0.43
1:G:470:GLY:O	1:G:473:TYR:HB2	2.19	0.43
1:H:470:GLY:O	1:H:473:TYR:HB2	2.19	0.43
1:E:258:CYS:SG	1:E:259:PRO:HD3	2.58	0.43
1:F:169:GLY:HA3	1:F:297:VAL:HB	2.00	0.43
1:J:124:ILE:N	1:J:125:ASP:HA	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:398:LEU:HD22	1:J:402:PHE:HE2	1.83	0.42
1:H:370:LEU:HA	1:H:370:LEU:HD23	1.66	0.42
1:J:417:ASN:O	1:J:420:VAL:HB	2.19	0.42
1:I:865:ASN:HB2	1:I:895:SER:CB	2.49	0.42
1:D:798:LEU:HB2	1:D:808:MET:HE3	2.00	0.42
1:I:990:VAL:O	1:I:994:LEU:HG	2.18	0.42
1:A:990:VAL:O	1:A:994:LEU:HG	2.18	0.42
1:E:203:ILE:O	1:E:248:ASP:N	2.40	0.42
1:D:203:ILE:N	1:D:246:LEU:O	2.46	0.42
1:H:657:GLN:HA	1:H:658:GLU:HA	1.75	0.42
1:A:334:LEU:HD22	1:A:340:PHE:CD2	2.54	0.42
1:K:740:ASN:OD1	1:K:767:ARG:NH1	2.52	0.42
1:E:334:LEU:HD22	1:E:340:PHE:CD2	2.54	0.42
1:J:740:ASN:OD1	1:J:767:ARG:NH1	2.52	0.42
1:C:691:ARG:NH2	1:C:739:GLN:OE1	2.52	0.42
1:J:334:LEU:HD22	1:J:340:PHE:CD2	2.54	0.42
1:J:490:LEU:HA	1:J:493:TYR:CD2	2.54	0.42
1:G:448:GLU:OE1	1:G:493:TYR:OH	2.17	0.42
1:G:490:LEU:HA	1:G:493:TYR:CD2	2.54	0.42
1:C:490:LEU:HA	1:C:493:TYR:CD2	2.54	0.42
1:D:797:HIS:HB3	1:D:826:LYS:HD2	2.00	0.42
1:F:749:GLN:CD	1:F:774:ARG:NH1	2.73	0.42
1:A:749:GLN:CD	1:A:774:ARG:NH1	2.73	0.42
1:E:749:GLN:CD	1:E:774:ARG:NH1	2.73	0.42
1:I:617:TYR:CE2	1:I:618:GLU:HB2	2.55	0.42
1:K:990:VAL:O	1:K:994:LEU:HG	2.18	0.42
1:I:250:TYR:CG	1:I:279:THR:HA	2.54	0.42
1:H:616:PHE:CD2	1:H:680:LEU:HD21	2.53	0.42
1:B:250:TYR:CG	1:B:279:THR:HA	2.54	0.42
1:B:162:LYS:H	1:B:293:LEU:HD22	1.84	0.42
1:A:453:ARG:HG2	1:A:453:ARG:NH1	2.34	0.42
1:H:453:ARG:HG2	1:H:453:ARG:NH1	2.34	0.42
1:F:258:CYS:SG	1:F:259:PRO:HD3	2.59	0.42
1:A:162:LYS:H	1:A:293:LEU:HD22	1.85	0.42
1:A:526:ARG:HB2	1:A:527:PRO:HD3	2.01	0.42
1:K:526:ARG:HB2	1:K:527:PRO:HD3	2.01	0.42
1:E:470:GLY:O	1:E:473:TYR:HB2	2.19	0.42
1:F:740:ASN:OD1	1:F:767:ARG:NH1	2.52	0.42
1:C:984:VAL:O	1:C:987:LEU:HB3	2.18	0.42
1:D:915:LYS:HE3	1:D:915:LYS:HB2	1.70	0.42
1:B:865:ASN:HB2	1:B:895:SER:CB	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:865:ASN:HB2	1:A:895:SER:CB	2.49	0.42
1:H:944:LEU:O	1:H:973:SER:OG	2.37	0.42
1:J:865:ASN:HB2	1:J:895:SER:CB	2.49	0.42
1:I:417:ASN:O	1:I:420:VAL:HB	2.20	0.42
1:C:396:LEU:HD23	1:C:396:LEU:HA	1.81	0.42
1:K:865:ASN:HB2	1:K:895:SER:CB	2.49	0.42
1:K:787:LEU:HD13	1:K:815:LEU:HD23	2.01	0.42
1:K:807:GLY:O	1:K:810:TYR:HB2	2.19	0.42
1:I:807:GLY:O	1:I:810:TYR:HB2	2.19	0.42
1:I:798:LEU:HB2	1:I:808:MET:HE3	2.00	0.42
1:D:990:VAL:O	1:D:994:LEU:HG	2.18	0.42
1:E:203:ILE:N	1:E:246:LEU:O	2.46	0.42
1:D:203:ILE:O	1:D:248:ASP:N	2.40	0.42
1:C:334:LEU:HD22	1:C:340:PHE:CD2	2.54	0.42
1:A:490:LEU:HA	1:A:493:TYR:CD2	2.54	0.42
1:G:334:LEU:HD22	1:G:340:PHE:CD2	2.54	0.42
1:G:740:ASN:OD1	1:G:767:ARG:NH1	2.52	0.42
1:E:613:LYS:HZ2	1:E:663:GLU:HB2	1.84	0.42
1:K:940:GLN:HA	1:K:968:VAL:HB	2.01	0.42
1:E:490:LEU:HA	1:E:493:TYR:CD2	2.54	0.42
1:B:489:ASN:HB3	1:B:493:TYR:CZ	2.55	0.42
1:H:749:GLN:CD	1:H:774:ARG:NH1	2.73	0.42
1:G:749:GLN:CD	1:G:774:ARG:NH1	2.73	0.42
1:H:921:ASP:OD1	1:H:953:GLY:HA3	2.19	0.42
1:E:136:GLU:OE1	1:E:153:THR:HB	2.19	0.42
1:J:982:ALA:HA	1:J:985:ARG:NH1	2.34	0.42
1:K:982:ALA:HA	1:K:985:ARG:NH1	2.34	0.42
1:G:150:GLU:HG3	1:G:152:LEU:HD21	2.01	0.42
1:F:150:GLU:HG3	1:F:152:LEU:HD21	2.02	0.42
1:D:239:LEU:HB3	1:D:242:GLU:HB2	2.01	0.42
1:K:162:LYS:H	1:K:293:LEU:HD22	1.84	0.42
1:C:526:ARG:HB2	1:C:527:PRO:HD3	2.01	0.42
1:E:157:LEU:HD11	1:E:293:LEU:HD21	2.01	0.42
1:I:397:ALA:HB1	1:I:447:GLN:HE21	1.85	0.42
1:E:453:ARG:HG2	1:E:453:ARG:NH1	2.34	0.42
1:F:157:LEU:HD11	1:F:293:LEU:HD21	2.01	0.42
1:J:169:GLY:HA3	1:J:297:VAL:HB	2.00	0.42
1:E:283:CYS:O	1:E:286:HIS:ND1	2.47	0.42
1:K:470:GLY:O	1:K:473:TYR:HB2	2.19	0.42
1:G:695:LYS:NZ	1:G:720:GLU:OE2	2.51	0.42
1:H:124:ILE:N	1:H:125:ASP:HA	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:398:LEU:HD23	1:E:398:LEU:HA	1.78	0.42
1:B:896:LEU:CD1	1:B:899:LEU:HD23	2.50	0.42
1:F:944:LEU:O	1:F:973:SER:OG	2.38	0.42
1:C:417:ASN:O	1:C:420:VAL:HB	2.19	0.42
1:D:422:VAL:HG13	1:D:428:CYS:HA	2.01	0.42
1:G:807:GLY:O	1:G:810:TYR:HB2	2.19	0.42
1:D:985:ARG:HE	1:E:685:SER:CB	2.32	0.42
1:B:691:ARG:NH2	1:B:739:GLN:OE1	2.52	0.42
1:K:334:LEU:HD22	1:K:340:PHE:CD2	2.54	0.42
1:I:691:ARG:NH2	1:I:739:GLN:OE1	2.52	0.42
1:D:691:ARG:NH2	1:D:739:GLN:OE1	2.52	0.42
1:E:693:HIS:HD2	1:E:694:ILE:N	2.18	0.42
1:F:693:HIS:HD2	1:F:694:ILE:N	2.18	0.42
1:D:490:LEU:HA	1:D:493:TYR:CD2	2.54	0.42
1:D:489:ASN:HB3	1:D:493:TYR:CZ	2.55	0.42
1:A:940:GLN:HA	1:A:968:VAL:HB	2.01	0.42
1:C:940:GLN:HA	1:C:968:VAL:HB	2.01	0.42
1:C:797:HIS:HB3	1:C:826:LYS:HD2	2.00	0.42
1:H:797:HIS:HB3	1:H:826:LYS:HD2	2.00	0.42
1:H:799:THR:HB	1:H:826:LYS:HD3	2.00	0.42
1:J:749:GLN:CD	1:J:774:ARG:NH1	2.73	0.42
1:B:701:ALA:C	1:B:703:ARG:H	2.23	0.42
1:J:662:LEU:HA	1:J:662:LEU:HD23	1.82	0.42
1:A:617:TYR:CE2	1:A:618:GLU:HB2	2.55	0.42
1:J:990:VAL:O	1:J:994:LEU:HG	2.18	0.42
1:D:921:ASP:OD1	1:D:953:GLY:HA3	2.19	0.42
1:G:250:TYR:CG	1:G:279:THR:HA	2.54	0.42
1:A:674:LYS:HA	1:A:677:ILE:CG1	2.50	0.42
1:I:823:GLN:HA	1:I:850:LEU:HA	2.01	0.42
1:G:136:GLU:OE1	1:G:153:THR:HB	2.19	0.42
1:F:136:GLU:OE1	1:F:153:THR:HB	2.19	0.42
1:B:239:LEU:HB3	1:B:242:GLU:HB2	2.01	0.42
1:E:150:GLU:HG3	1:E:152:LEU:HD21	2.02	0.42
1:F:239:LEU:HB3	1:F:242:GLU:HB2	2.01	0.42
1:H:746:LEU:O	1:H:747:HIS:HB2	2.19	0.42
1:J:453:ARG:HG2	1:J:453:ARG:NH1	2.34	0.42
1:H:813:LYS:HD2	1:H:813:LYS:HA	1.78	0.42
1:C:470:GLY:O	1:C:473:TYR:HB2	2.19	0.42
1:E:397:ALA:HB1	1:E:447:GLN:HE21	1.85	0.42
1:D:470:GLY:O	1:D:473:TYR:HB2	2.19	0.42
1:F:117:PHE:HZ	1:F:176:SER:CB	2.23	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:944:LEU:O	1:E:973:SER:OG	2.37	0.42
1:B:417:ASN:O	1:B:420:VAL:HB	2.19	0.42
1:J:370:LEU:HA	1:J:370:LEU:HD23	1.66	0.42
1:I:944:LEU:O	1:I:973:SER:OG	2.37	0.42
1:K:892:VAL:CG1	1:K:917:TRP:HA	2.50	0.42
1:F:203:ILE:N	1:F:246:LEU:O	2.46	0.42
1:E:182:ILE:HD12	1:E:182:ILE:HA	1.84	0.42
1:B:691:ARG:CZ	1:B:715:HIS:HD2	2.32	0.42
1:C:550:ASN:HB3	1:C:553:SER:HB2	2.01	0.42
1:J:489:ASN:HB3	1:J:493:TYR:CZ	2.55	0.42
1:H:691:ARG:CZ	1:H:715:HIS:HD2	2.32	0.42
1:E:691:ARG:NH2	1:E:739:GLN:OE1	2.52	0.42
1:B:797:HIS:HB3	1:B:826:LYS:HD2	2.00	0.42
1:I:799:THR:HB	1:I:826:LYS:HD3	2.00	0.42
1:G:799:THR:HB	1:G:826:LYS:HD3	2.00	0.42
1:K:617:TYR:CE2	1:K:618:GLU:HB2	2.55	0.42
1:D:263:ALA:O	1:D:267:GLU:HB2	2.20	0.42
1:K:329:ARG:HA	1:K:329:ARG:HD3	1.77	0.42
1:I:921:ASP:OD1	1:I:953:GLY:HA3	2.19	0.42
1:F:823:GLN:HA	1:F:850:LEU:HA	2.01	0.42
1:K:674:LYS:HA	1:K:677:ILE:CG1	2.50	0.42
1:K:250:TYR:CG	1:K:279:THR:HA	2.54	0.42
1:F:162:LYS:H	1:F:293:LEU:HD22	1.84	0.42
1:I:169:GLY:HA3	1:I:297:VAL:HB	2.00	0.42
1:G:157:LEU:HD11	1:G:293:LEU:HD21	2.01	0.42
1:G:162:LYS:H	1:G:293:LEU:HD22	1.84	0.42
1:J:526:ARG:HB2	1:J:527:PRO:HD3	2.01	0.42
1:D:108:LEU:HD23	1:D:108:LEU:HA	1.84	0.42
1:I:470:GLY:O	1:I:473:TYR:HB2	2.19	0.42
1:K:695:LYS:NZ	1:K:720:GLU:OE2	2.51	0.42
1:J:470:GLY:O	1:J:473:TYR:HB2	2.19	0.42
1:G:397:ALA:HB1	1:G:447:GLN:HE21	1.85	0.42
1:B:526:ARG:HB2	1:B:527:PRO:HD3	2.01	0.42
1:A:695:LYS:NZ	1:A:720:GLU:OE2	2.51	0.42
1:D:433:GLN:CG	1:E:125:ASP:H	2.19	0.42
1:H:289:HIS:HE1	1:I:119:PRO:HA	1.82	0.42
1:D:892:VAL:CG1	1:D:917:TRP:HA	2.50	0.42
1:E:896:LEU:CD1	1:E:899:LEU:HD23	2.50	0.42
1:G:896:LEU:CD1	1:G:899:LEU:HD23	2.50	0.42
1:H:896:LEU:CD1	1:H:899:LEU:HD23	2.50	0.42
1:C:807:GLY:O	1:C:810:TYR:HB2	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:422:VAL:HG11	1:J:429:LYS:HG2	2.01	0.42
1:E:807:GLY:O	1:E:810:TYR:HB2	2.19	0.42
1:C:422:VAL:HG13	1:C:428:CYS:HA	2.01	0.42
1:G:982:ALA:HA	1:G:985:ARG:NH1	2.34	0.42
1:A:691:ARG:CZ	1:A:715:HIS:HD2	2.32	0.42
1:C:691:ARG:CZ	1:C:715:HIS:HD2	2.32	0.42
1:C:740:ASN:OD1	1:C:767:ARG:NH1	2.52	0.42
1:G:691:ARG:CZ	1:G:715:HIS:HD2	2.32	0.42
1:B:940:GLN:HA	1:B:968:VAL:HB	2.01	0.42
1:F:533:SEP:O	1:F:536:SER:OG	2.34	0.42
1:F:490:LEU:HA	1:F:493:TYR:CD2	2.54	0.42
1:C:489:ASN:HB3	1:C:493:TYR:CZ	2.54	0.42
1:K:480:ILE:HD12	1:K:557:CYS:HB2	2.02	0.42
1:K:701:ALA:C	1:K:703:ARG:H	2.23	0.42
1:A:480:ILE:HD12	1:A:557:CYS:HB2	2.02	0.42
1:F:617:TYR:CE2	1:F:618:GLU:HB2	2.55	0.42
1:J:617:TYR:CE2	1:J:618:GLU:HB2	2.54	0.42
1:A:921:ASP:OD1	1:A:953:GLY:HA3	2.19	0.42
1:B:674:LYS:HA	1:B:677:ILE:CG1	2.50	0.42
1:A:985:ARG:HE	1:B:685:SER:CB	2.31	0.42
1:H:150:GLU:HG3	1:H:152:LEU:HD21	2.01	0.42
1:J:518:LEU:HD22	1:J:549:ILE:HG22	2.02	0.42
1:I:518:LEU:HD22	1:I:549:ILE:HG22	2.02	0.42
1:D:162:LYS:H	1:D:293:LEU:HD22	1.84	0.42
1:E:162:LYS:H	1:E:293:LEU:HD22	1.84	0.42
1:D:306:LYS:HD2	1:D:322:TRP:CZ3	2.55	0.42
1:I:453:ARG:HG2	1:I:453:ARG:NH1	2.34	0.42
1:C:162:LYS:H	1:C:293:LEU:HD22	1.84	0.42
1:C:148:ARG:NH2	1:C:298:GLY:HA2	2.35	0.42
1:K:397:ALA:HB1	1:K:447:GLN:HE21	1.85	0.42
1:G:306:LYS:HD2	1:G:322:TRP:CZ3	2.55	0.42
1:D:148:ARG:NH2	1:D:298:GLY:HA2	2.35	0.42
1:E:746:LEU:O	1:E:747:HIS:HB2	2.19	0.42
1:E:740:ASN:OD1	1:E:767:ARG:NH1	2.52	0.42
1:I:157:LEU:HD11	1:I:293:LEU:HD21	2.01	0.42
1:B:398:LEU:HD23	1:B:398:LEU:HA	1.78	0.42
1:C:892:VAL:CG1	1:C:917:TRP:HA	2.50	0.42
1:I:892:VAL:CG1	1:I:917:TRP:HA	2.50	0.42
1:I:896:LEU:CD1	1:I:899:LEU:HD23	2.50	0.42
1:F:807:GLY:O	1:F:810:TYR:HB2	2.19	0.42
1:A:124:ILE:N	1:A:125:ASP:HA	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:203:ILE:N	1:C:246:LEU:O	2.46	0.42
1:F:552:ASN:HB2	1:F:584:LEU:HD12	2.02	0.42
1:E:552:ASN:HB2	1:E:584:LEU:HD12	2.01	0.42
1:A:489:ASN:HB3	1:A:493:TYR:CZ	2.55	0.42
1:F:691:ARG:CZ	1:F:715:HIS:HD2	2.32	0.42
1:F:691:ARG:NH2	1:F:739:GLN:OE1	2.52	0.42
1:E:489:ASN:HB3	1:E:493:TYR:CZ	2.55	0.42
1:D:491:LEU:O	1:D:494:THR:OG1	2.23	0.42
1:G:797:HIS:HB3	1:G:826:LYS:HD2	2.00	0.42
1:G:617:TYR:CE2	1:G:618:GLU:HB2	2.55	0.42
1:E:921:ASP:OD1	1:E:953:GLY:HA3	2.19	0.42
1:K:136:GLU:OE1	1:K:153:THR:HB	2.19	0.42
1:H:136:GLU:OE1	1:H:153:THR:HB	2.19	0.42
1:D:136:GLU:OE1	1:D:153:THR:HB	2.19	0.42
1:D:150:GLU:HG3	1:D:152:LEU:HD21	2.02	0.42
1:G:239:LEU:HB3	1:G:242:GLU:HB2	2.01	0.42
1:B:320:ARG:NH1	1:B:352:GLN:O	2.41	0.42
1:A:470:GLY:O	1:A:473:TYR:HB2	2.19	0.42
1:B:397:ALA:HB1	1:B:447:GLN:HE21	1.85	0.42
1:C:397:ALA:HB1	1:C:447:GLN:HE21	1.85	0.42
1:K:148:ARG:NH2	1:K:298:GLY:HA2	2.35	0.42
1:J:157:LEU:HD11	1:J:293:LEU:HD21	2.01	0.42
1:E:148:ARG:NH2	1:E:298:GLY:HA2	2.35	0.42
1:D:526:ARG:HB2	1:D:527:PRO:HD3	2.01	0.42
1:B:470:GLY:O	1:B:473:TYR:HB2	2.19	0.42
1:G:453:ARG:HG2	1:G:453:ARG:NH1	2.34	0.42
1:G:574:GLU:N	1:G:574:GLU:OE1	2.52	0.42
1:C:453:ARG:NH1	1:C:453:ARG:HG2	2.34	0.42
1:B:907:PRO:HA	1:B:936:LEU:HD13	2.02	0.42
1:B:306:LYS:HD2	1:B:322:TRP:CZ3	2.55	0.42
1:E:124:ILE:N	1:E:125:ASP:HA	2.34	0.42
1:C:896:LEU:CD1	1:C:899:LEU:HD23	2.50	0.42
1:B:892:VAL:CG1	1:B:917:TRP:HA	2.50	0.42
1:A:892:VAL:CG1	1:A:917:TRP:HA	2.50	0.42
1:B:807:GLY:O	1:B:810:TYR:HB2	2.20	0.42
1:K:896:LEU:CD1	1:K:899:LEU:HD23	2.50	0.42
1:F:417:ASN:O	1:F:420:VAL:HB	2.19	0.42
1:H:807:GLY:O	1:H:810:TYR:HB2	2.19	0.42
1:A:693:HIS:HD2	1:A:694:ILE:N	2.18	0.42
1:K:693:HIS:HD2	1:K:694:ILE:N	2.18	0.42
1:J:691:ARG:NH2	1:J:739:GLN:OE1	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:693:HIS:HD2	1:J:694:ILE:N	2.18	0.42
1:F:550:ASN:HB3	1:F:553:SER:HB2	2.01	0.42
1:A:366:PHE:HD2	1:A:446:PHE:HE2	1.68	0.42
1:D:693:HIS:HD2	1:D:694:ILE:N	2.18	0.42
1:C:701:ALA:C	1:C:703:ARG:H	2.23	0.42
1:J:701:ALA:C	1:J:703:ARG:H	2.23	0.42
1:B:480:ILE:HD12	1:B:557:CYS:HB2	2.02	0.42
1:H:618:GLU:CD	1:H:619:ARG:NH1	2.73	0.42
1:B:263:ALA:O	1:B:267:GLU:HB2	2.19	0.42
1:H:701:ALA:C	1:H:703:ARG:H	2.23	0.42
1:B:921:ASP:OD1	1:B:953:GLY:HA3	2.19	0.42
1:J:674:LYS:HA	1:J:677:ILE:CG1	2.50	0.42
1:I:674:LYS:HA	1:I:677:ILE:CG1	2.50	0.42
1:K:518:LEU:HD22	1:K:549:ILE:HG22	2.02	0.42
1:H:518:LEU:HD22	1:H:549:ILE:HG22	2.02	0.42
1:J:239:LEU:HB3	1:J:242:GLU:HB2	2.01	0.42
1:J:162:LYS:H	1:J:293:LEU:HD22	1.84	0.42
1:D:907:PRO:HA	1:D:936:LEU:HD13	2.02	0.42
1:B:740:ASN:OD1	1:B:767:ARG:NH1	2.52	0.42
1:B:746:LEU:O	1:B:747:HIS:HB2	2.19	0.42
1:A:740:ASN:OD1	1:A:767:ARG:NH1	2.52	0.42
1:F:574:GLU:N	1:F:574:GLU:OE1	2.52	0.42
1:D:746:LEU:O	1:D:747:HIS:HB2	2.19	0.42
1:I:740:ASN:OD1	1:I:767:ARG:NH1	2.52	0.42
1:I:306:LYS:HD2	1:I:322:TRP:CZ3	2.55	0.42
1:D:896:LEU:CD1	1:D:899:LEU:HD23	2.50	0.42
1:E:869:GLN:HG3	1:E:898:LYS:HZ3	1.85	0.42
1:K:417:ASN:O	1:K:420:VAL:HB	2.19	0.42
1:E:422:VAL:HG11	1:E:429:LYS:HG2	2.01	0.42
1:E:770:LEU:HD23	1:E:770:LEU:HA	1.74	0.42
1:B:422:VAL:HG11	1:B:429:LYS:HG2	2.01	0.42
1:G:550:ASN:HB3	1:G:553:SER:HB2	2.01	0.42
1:I:693:HIS:HD2	1:I:694:ILE:N	2.18	0.42
1:E:550:ASN:HB3	1:E:553:SER:HB2	2.01	0.42
1:D:740:ASN:OD1	1:D:767:ARG:NH1	2.52	0.42
1:H:334:LEU:HD22	1:H:340:PHE:CD2	2.54	0.42
1:G:489:ASN:HB3	1:G:493:TYR:CZ	2.55	0.42
1:B:366:PHE:HD2	1:B:446:PHE:HE2	1.68	0.42
1:J:968:VAL:O	1:J:997:LEU:HD12	2.20	0.42
1:H:617:TYR:CE2	1:H:618:GLU:HB2	2.54	0.42
1:H:674:LYS:HA	1:H:677:ILE:CG1	2.50	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:674:LYS:HA	1:C:677:ILE:CG1	2.50	0.42
1:E:823:GLN:HA	1:E:850:LEU:HA	2.01	0.42
1:C:982:ALA:HA	1:C:985:ARG:NH1	2.34	0.42
1:J:400:GLY:HA2	1:J:405:LYS:O	2.20	0.42
1:K:400:GLY:HA2	1:K:405:LYS:O	2.20	0.42
1:A:157:LEU:HD11	1:A:293:LEU:HD21	2.01	0.42
1:I:168:GLU:O	1:I:296:GLU:HA	2.20	0.42
1:B:695:LYS:NZ	1:B:720:GLU:OE2	2.51	0.42
1:K:306:LYS:HD2	1:K:322:TRP:CZ3	2.55	0.42
1:K:453:ARG:NH1	1:K:453:ARG:HG2	2.34	0.42
1:H:157:LEU:HD11	1:H:293:LEU:HD21	2.01	0.42
1:E:907:PRO:HA	1:E:936:LEU:HD13	2.02	0.42
1:H:168:GLU:O	1:H:296:GLU:HA	2.20	0.42
1:H:169:GLY:HA3	1:H:297:VAL:HB	2.00	0.42
1:F:746:LEU:O	1:F:747:HIS:HB2	2.19	0.42
1:J:118:TYR:HB3	1:J:123:ASP:H	1.85	0.42
1:A:117:PHE:HZ	1:A:176:SER:CB	2.23	0.42
1:G:128:PHE:CD2	1:G:311:ALA:HB1	2.55	0.42
1:D:128:PHE:CD2	1:D:311:ALA:HB1	2.55	0.42
1:D:944:LEU:O	1:D:973:SER:OG	2.37	0.42
1:A:417:ASN:O	1:A:420:VAL:HB	2.19	0.42
1:G:370:LEU:HA	1:G:370:LEU:HD23	1.66	0.42
1:D:417:ASN:O	1:D:420:VAL:HB	2.19	0.42
1:F:892:VAL:CG1	1:F:917:TRP:HA	2.50	0.42
1:J:807:GLY:O	1:J:810:TYR:HB2	2.19	0.42
1:A:118:TYR:HA	1:A:119:PRO:HD2	1.77	0.42
1:G:203:ILE:N	1:G:246:LEU:O	2.46	0.42
1:J:182:ILE:HA	1:J:182:ILE:HD12	1.84	0.42
1:K:118:TYR:HA	1:K:119:PRO:HD2	1.76	0.42
1:K:123:ASP:OD1	1:J:289:HIS:NE2	2.52	0.42
1:G:552:ASN:HB2	1:G:584:LEU:HD12	2.01	0.42
1:H:691:ARG:NH2	1:H:739:GLN:OE1	2.52	0.42
1:G:693:HIS:HD2	1:G:694:ILE:N	2.18	0.42
1:I:366:PHE:HD2	1:I:446:PHE:HE2	1.68	0.42
1:I:490:LEU:HA	1:I:493:TYR:CD2	2.54	0.42
1:F:968:VAL:O	1:F:997:LEU:HD12	2.20	0.42
1:K:489:ASN:HB3	1:K:493:TYR:CZ	2.55	0.42
1:B:118:TYR:HB3	1:B:123:ASP:H	1.85	0.42
1:F:618:GLU:CD	1:F:619:ARG:NH1	2.73	0.42
1:D:618:GLU:CD	1:D:619:ARG:NH1	2.73	0.42
1:C:617:TYR:CE2	1:C:618:GLU:HB2	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:263:ALA:O	1:C:267:GLU:HB2	2.19	0.42
1:E:263:ALA:O	1:E:267:GLU:HB2	2.20	0.42
1:I:909:LEU:HA	1:I:909:LEU:HD12	1.85	0.42
1:F:674:LYS:HA	1:F:677:ILE:CG1	2.50	0.42
1:I:150:GLU:HG3	1:I:152:LEU:HD21	2.01	0.42
1:I:400:GLY:HA2	1:I:405:LYS:O	2.20	0.42
1:A:400:GLY:HA2	1:A:405:LYS:O	2.20	0.42
1:F:400:GLY:HA2	1:F:405:LYS:O	2.20	0.42
1:C:157:LEU:HD11	1:C:293:LEU:HD21	2.01	0.42
1:I:526:ARG:HB2	1:I:527:PRO:HD3	2.01	0.42
1:C:907:PRO:HA	1:C:936:LEU:HD13	2.02	0.42
1:D:168:GLU:O	1:D:296:GLU:HA	2.20	0.42
1:D:772:ASP:HA	1:D:800:HIS:O	2.20	0.42
1:H:740:ASN:OD1	1:H:767:ARG:NH1	2.52	0.42
1:H:306:LYS:HD2	1:H:322:TRP:CZ3	2.55	0.42
1:J:695:LYS:NZ	1:J:720:GLU:OE2	2.51	0.42
1:I:148:ARG:NH2	1:I:298:GLY:HA2	2.35	0.42
1:B:128:PHE:CD2	1:B:311:ALA:HB1	2.55	0.42
1:F:128:PHE:CD2	1:F:311:ALA:HB1	2.55	0.42
1:H:415:SER:C	1:H:417:ASN:N	2.73	0.42
1:H:417:ASN:O	1:H:420:VAL:HB	2.19	0.42
1:G:417:ASN:O	1:G:420:VAL:HB	2.19	0.42
1:J:944:LEU:O	1:J:973:SER:OG	2.38	0.42
1:A:807:GLY:O	1:A:810:TYR:HB2	2.19	0.42
1:K:869:GLN:HG3	1:K:898:LYS:HZ3	1.85	0.42
1:G:422:VAL:HG11	1:G:429:LYS:HG2	2.01	0.42
1:C:422:VAL:HG11	1:C:429:LYS:HG2	2.01	0.42
1:D:576:GLU:OE2	1:D:605:CYS:SG	2.72	0.42
1:H:576:GLU:OE2	1:H:605:CYS:SG	2.72	0.42
1:F:770:LEU:HD23	1:F:770:LEU:HA	1.74	0.42
1:G:968:VAL:O	1:G:997:LEU:HD12	2.20	0.42
1:I:968:VAL:O	1:I:997:LEU:HD12	2.20	0.42
1:D:552:ASN:HB2	1:D:584:LEU:HD12	2.02	0.42
1:K:968:VAL:O	1:K:997:LEU:HD12	2.20	0.42
1:F:586:ILE:N	1:F:613:LYS:O	2.48	0.42
1:F:663:GLU:OE1	1:F:691:ARG:HD2	2.20	0.42
1:E:366:PHE:HD2	1:E:446:PHE:HE2	1.68	0.42
1:A:968:VAL:O	1:A:997:LEU:HD12	2.20	0.42
1:K:490:LEU:HA	1:K:493:TYR:CD2	2.54	0.42
1:D:968:VAL:O	1:D:997:LEU:HD12	2.20	0.42
1:D:617:TYR:CE2	1:D:618:GLU:HB2	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:618:GLU:CD	1:J:619:ARG:NH1	2.73	0.42
1:J:263:ALA:O	1:J:267:GLU:HB2	2.19	0.42
1:D:674:LYS:HA	1:D:677:ILE:CG1	2.50	0.42
1:E:674:LYS:HA	1:E:677:ILE:CG1	2.50	0.42
1:G:674:LYS:HA	1:G:677:ILE:CG1	2.50	0.42
1:F:756:ILE:HG13	1:F:756:ILE:H	1.66	0.42
1:A:217:TYR:HD1	1:A:221:LEU:HA	1.83	0.42
1:C:150:GLU:HG3	1:C:152:LEU:HD21	2.02	0.42
1:A:518:LEU:HD22	1:A:549:ILE:HG22	2.02	0.42
1:B:400:GLY:HA2	1:B:405:LYS:O	2.20	0.42
1:H:239:LEU:HB3	1:H:242:GLU:HB2	2.01	0.42
1:H:162:LYS:H	1:H:293:LEU:HD22	1.85	0.42
1:E:306:LYS:HD2	1:E:322:TRP:CZ3	2.55	0.42
1:F:148:ARG:NH2	1:F:298:GLY:HA2	2.35	0.42
1:D:397:ALA:HB1	1:D:447:GLN:HE21	1.85	0.42
1:C:746:LEU:O	1:C:747:HIS:HB2	2.19	0.42
1:B:772:ASP:HA	1:B:800:HIS:O	2.20	0.42
1:I:195:LYS:C	1:I:197:PHE:H	2.23	0.42
1:B:148:ARG:NH2	1:B:298:GLY:HA2	2.35	0.42
1:A:168:GLU:O	1:A:296:GLU:HA	2.20	0.42
1:K:128:PHE:CD2	1:K:311:ALA:HB1	2.55	0.41
1:A:455:LEU:HA	1:A:455:LEU:HD23	1.69	0.41
1:E:892:VAL:CG1	1:E:917:TRP:HA	2.50	0.41
1:F:896:LEU:CD1	1:F:899:LEU:HD23	2.50	0.41
1:G:892:VAL:CG1	1:G:917:TRP:HA	2.50	0.41
1:K:893:HIS:CB	1:K:919:LEU:HD23	2.50	0.41
1:D:807:GLY:O	1:D:810:TYR:HB2	2.19	0.41
1:A:422:VAL:HG11	1:A:429:LYS:HG2	2.01	0.41
1:B:613:LYS:HZ2	1:B:663:GLU:HB2	1.84	0.41
1:B:693:HIS:HD2	1:B:694:ILE:N	2.18	0.41
1:J:613:LYS:HZ2	1:J:663:GLU:HB2	1.84	0.41
1:D:550:ASN:HB3	1:D:553:SER:HB2	2.01	0.41
1:H:663:GLU:OE1	1:H:691:ARG:HD2	2.20	0.41
1:B:968:VAL:O	1:B:997:LEU:HD12	2.20	0.41
1:D:366:PHE:HD2	1:D:446:PHE:HE2	1.68	0.41
1:C:366:PHE:HD2	1:C:446:PHE:HE2	1.68	0.41
1:K:366:PHE:HD2	1:K:446:PHE:HE2	1.68	0.41
1:H:968:VAL:O	1:H:997:LEU:HD12	2.20	0.41
1:F:396:LEU:HA	1:F:396:LEU:HD23	1.81	0.41
1:K:749:GLN:CD	1:K:774:ARG:NH1	2.73	0.41
1:B:749:GLN:NE2	1:B:774:ARG:HH12	2.19	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:618:GLU:CD	1:G:619:ARG:NH1	2.73	0.41
1:C:118:TYR:HB3	1:C:123:ASP:H	1.85	0.41
1:I:263:ALA:O	1:I:267:GLU:HB2	2.20	0.41
1:K:618:GLU:CD	1:K:619:ARG:NH1	2.73	0.41
1:B:618:GLU:CD	1:B:619:ARG:NH1	2.73	0.41
1:A:618:GLU:CD	1:A:619:ARG:NH1	2.73	0.41
1:H:118:TYR:HB3	1:H:123:ASP:H	1.85	0.41
1:K:759:LEU:HD23	1:K:762:LEU:HD12	2.02	0.41
1:I:136:GLU:OE1	1:I:153:THR:HB	2.19	0.41
1:A:136:GLU:OE1	1:A:153:THR:HB	2.19	0.41
1:H:400:GLY:HA2	1:H:405:LYS:O	2.20	0.41
1:H:537:LEU:HD12	1:H:537:LEU:O	2.21	0.41
1:K:320:ARG:NH1	1:K:352:GLN:O	2.41	0.41
1:J:772:ASP:HA	1:J:800:HIS:O	2.20	0.41
1:G:772:ASP:HA	1:G:800:HIS:O	2.20	0.41
1:A:397:ALA:HB1	1:A:447:GLN:HE21	1.85	0.41
1:F:934:ASN:HA	1:F:935:PRO:HD3	1.78	0.41
1:B:124:ILE:N	1:B:125:ASP:HA	2.34	0.41
1:I:118:TYR:HB3	1:I:123:ASP:H	1.85	0.41
1:C:893:HIS:CB	1:C:919:LEU:HD23	2.50	0.41
1:H:421:LEU:O	1:H:425:GLY:N	2.42	0.41
1:E:893:HIS:CB	1:E:919:LEU:HD23	2.50	0.41
1:I:869:GLN:HG3	1:I:898:LYS:HZ3	1.85	0.41
1:G:869:GLN:HG3	1:G:898:LYS:HZ3	1.85	0.41
1:J:896:LEU:CD1	1:J:899:LEU:HD23	2.50	0.41
1:J:892:VAL:CG1	1:J:917:TRP:HA	2.50	0.41
1:F:418:GLU:C	1:F:420:VAL:N	2.74	0.41
1:D:982:ALA:HA	1:D:985:ARG:NH1	2.34	0.41
1:B:203:ILE:N	1:B:246:LEU:O	2.46	0.41
1:F:860:LEU:HD12	1:F:864:GLY:CA	2.48	0.41
1:J:663:GLU:OE1	1:J:691:ARG:HD2	2.20	0.41
1:J:366:PHE:HD2	1:J:446:PHE:HE2	1.68	0.41
1:H:489:ASN:HB3	1:H:493:TYR:CZ	2.55	0.41
1:F:489:ASN:HB3	1:F:493:TYR:CZ	2.55	0.41
1:E:118:TYR:HA	1:E:119:PRO:HD2	1.76	0.41
1:F:659:PHE:O	1:F:687:ALA:HA	2.21	0.41
1:H:749:GLN:NE2	1:H:774:ARG:HH12	2.19	0.41
1:J:844:LEU:HD23	1:J:874:ARG:HB3	2.02	0.41
1:J:480:ILE:HD12	1:J:557:CYS:HB2	2.02	0.41
1:K:659:PHE:O	1:K:687:ALA:HA	2.21	0.41
1:I:659:PHE:O	1:I:687:ALA:HA	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:480:ILE:HD12	1:C:557:CYS:HB2	2.02	0.41
1:K:263:ALA:O	1:K:267:GLU:HB2	2.19	0.41
1:B:909:LEU:HA	1:B:909:LEU:HD12	1.85	0.41
1:C:136:GLU:OE1	1:C:153:THR:HB	2.19	0.41
1:G:518:LEU:HD22	1:G:549:ILE:HG22	2.02	0.41
1:C:400:GLY:HA2	1:C:405:LYS:O	2.20	0.41
1:I:239:LEU:HB3	1:I:242:GLU:HB2	2.01	0.41
1:J:759:LEU:HD23	1:J:762:LEU:HD12	2.02	0.41
1:G:168:GLU:O	1:G:296:GLU:HA	2.20	0.41
1:C:772:ASP:HA	1:C:800:HIS:O	2.20	0.41
1:A:907:PRO:HA	1:A:936:LEU:HD13	2.02	0.41
1:J:168:GLU:O	1:J:296:GLU:HA	2.20	0.41
1:E:574:GLU:OE1	1:E:574:GLU:N	2.52	0.41
1:C:813:LYS:HA	1:C:813:LYS:HD2	1.78	0.41
1:C:168:GLU:O	1:C:296:GLU:HA	2.20	0.41
1:I:907:PRO:HA	1:I:936:LEU:HD13	2.02	0.41
1:D:934:ASN:HA	1:D:935:PRO:HD3	1.78	0.41
1:F:306:LYS:HD2	1:F:322:TRP:CZ3	2.55	0.41
1:H:526:ARG:HB2	1:H:527:PRO:HD3	2.01	0.41
1:H:128:PHE:CD2	1:H:311:ALA:HB1	2.55	0.41
1:J:128:PHE:CD2	1:J:311:ALA:HB1	2.55	0.41
1:C:869:GLN:HG3	1:C:898:LYS:HZ3	1.85	0.41
1:B:893:HIS:CB	1:B:919:LEU:HD23	2.50	0.41
1:E:417:ASN:O	1:E:420:VAL:HB	2.19	0.41
1:G:985:ARG:HE	1:H:685:SER:CB	2.32	0.41
1:H:203:ILE:N	1:H:246:LEU:O	2.46	0.41
1:H:552:ASN:HB2	1:H:584:LEU:HD12	2.01	0.41
1:G:366:PHE:HD2	1:G:446:PHE:HE2	1.68	0.41
1:H:366:PHE:HD2	1:H:446:PHE:HE2	1.68	0.41
1:C:968:VAL:O	1:C:997:LEU:HD12	2.20	0.41
1:E:118:TYR:HB3	1:E:123:ASP:H	1.85	0.41
1:H:844:LEU:HD23	1:H:874:ARG:HB3	2.02	0.41
1:A:844:LEU:HD23	1:A:874:ARG:HB3	2.02	0.41
1:G:263:ALA:O	1:G:267:GLU:HB2	2.19	0.41
1:K:662:LEU:HA	1:K:662:LEU:HD23	1.82	0.41
1:B:659:PHE:O	1:B:687:ALA:HA	2.21	0.41
1:C:659:PHE:O	1:C:687:ALA:HA	2.21	0.41
1:B:617:TYR:CE2	1:B:618:GLU:HB2	2.54	0.41
1:I:480:ILE:HD12	1:I:557:CYS:HB2	2.02	0.41
1:A:759:LEU:HD23	1:A:762:LEU:HD12	2.02	0.41
1:B:136:GLU:OE1	1:B:153:THR:HB	2.19	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:400:GLY:HA2	1:D:405:LYS:O	2.20	0.41
1:G:400:GLY:HA2	1:G:405:LYS:O	2.20	0.41
1:F:537:LEU:HD12	1:F:537:LEU:O	2.21	0.41
1:B:322:TRP:O	1:B:326:GLN:HG2	2.21	0.41
1:J:148:ARG:NH2	1:J:298:GLY:HA2	2.35	0.41
1:G:746:LEU:O	1:G:747:HIS:HB2	2.19	0.41
1:E:526:ARG:HB2	1:E:527:PRO:HD3	2.01	0.41
1:G:148:ARG:NH2	1:G:298:GLY:HA2	2.35	0.41
1:F:210:GLY:HA2	1:F:211:GLY:C	2.41	0.41
1:F:453:ARG:HG2	1:F:453:ARG:NH1	2.34	0.41
1:I:227:ILE:HG13	1:I:227:ILE:H	1.65	0.41
1:K:772:ASP:HA	1:K:800:HIS:O	2.20	0.41
1:A:148:ARG:NH2	1:A:298:GLY:HA2	2.35	0.41
1:F:168:GLU:O	1:F:296:GLU:HA	2.20	0.41
1:F:397:ALA:HB1	1:F:447:GLN:HE21	1.85	0.41
1:C:306:LYS:HD2	1:C:322:TRP:CZ3	2.55	0.41
1:A:956:TYR:O	1:A:959:ASN:HB2	2.21	0.41
1:K:210:GLY:HA2	1:K:211:GLY:C	2.41	0.41
1:H:398:LEU:HA	1:H:398:LEU:HD23	1.78	0.41
1:D:869:GLN:HG3	1:D:898:LYS:HZ3	1.85	0.41
1:C:944:LEU:O	1:C:973:SER:OG	2.37	0.41
1:A:893:HIS:CB	1:A:919:LEU:HD23	2.50	0.41
1:K:787:LEU:HD12	1:K:814:SER:HB3	2.03	0.41
1:K:182:ILE:HA	1:K:182:ILE:HD12	1.84	0.41
1:I:657:GLN:HA	1:I:658:GLU:HA	1.75	0.41
1:F:366:PHE:HD2	1:F:446:PHE:HE2	1.68	0.41
1:B:490:LEU:HA	1:B:493:TYR:CD2	2.54	0.41
1:K:749:GLN:NE2	1:K:774:ARG:HH12	2.19	0.41
1:K:749:GLN:NE2	1:K:774:ARG:NH1	2.69	0.41
1:A:749:GLN:NE2	1:A:774:ARG:HH12	2.19	0.41
1:G:749:GLN:NE2	1:G:774:ARG:HH12	2.19	0.41
1:G:662:LEU:HD23	1:G:662:LEU:HA	1.82	0.41
1:G:659:PHE:O	1:G:687:ALA:HA	2.21	0.41
1:F:263:ALA:O	1:F:267:GLU:HB2	2.19	0.41
1:H:263:ALA:O	1:H:267:GLU:HB2	2.19	0.41
1:F:480:ILE:HD12	1:F:557:CYS:HB2	2.02	0.41
1:E:701:ALA:C	1:E:703:ARG:H	2.23	0.41
1:A:263:ALA:O	1:A:267:GLU:HB2	2.19	0.41
1:C:250:TYR:CG	1:C:279:THR:HA	2.54	0.41
1:J:150:GLU:HG3	1:J:152:LEU:HD21	2.02	0.41
1:E:985:ARG:HE	1:F:685:SER:CB	2.34	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:537:LEU:O	1:J:537:LEU:HD12	2.21	0.41
1:H:907:PRO:HA	1:H:936:LEU:HD13	2.02	0.41
1:E:168:GLU:O	1:E:296:GLU:HA	2.20	0.41
1:A:210:GLY:HA2	1:A:211:GLY:C	2.41	0.41
1:J:210:GLY:HA2	1:J:211:GLY:C	2.41	0.41
1:I:118:TYR:HA	1:I:119:PRO:HD2	1.76	0.41
1:A:128:PHE:CD2	1:A:311:ALA:HB1	2.55	0.41
1:J:184:MET:O	1:J:188:SER:OG	2.28	0.41
1:I:128:PHE:CD2	1:I:311:ALA:HB1	2.55	0.41
1:K:418:GLU:C	1:K:420:VAL:H	2.24	0.41
1:G:418:GLU:C	1:G:420:VAL:N	2.74	0.41
1:J:418:GLU:C	1:J:420:VAL:H	2.24	0.41
1:E:418:GLU:C	1:E:420:VAL:N	2.74	0.41
1:I:893:HIS:CB	1:I:919:LEU:HD23	2.50	0.41
1:B:787:LEU:HD12	1:B:814:SER:HB3	2.03	0.41
1:K:534:ILE:HA	1:K:534:ILE:HD12	1.92	0.41
1:I:663:GLU:OE1	1:I:691:ARG:HD2	2.20	0.41
1:A:552:ASN:HB2	1:A:584:LEU:HD12	2.01	0.41
1:H:693:HIS:HD2	1:H:694:ILE:N	2.18	0.41
1:C:552:ASN:HB2	1:C:584:LEU:HD12	2.02	0.41
1:D:663:GLU:OE1	1:D:691:ARG:HD2	2.20	0.41
1:I:489:ASN:HB3	1:I:493:TYR:CZ	2.55	0.41
1:B:118:TYR:HA	1:B:119:PRO:HD2	1.76	0.41
1:B:844:LEU:HD23	1:B:874:ARG:HB3	2.02	0.41
1:H:749:GLN:NE2	1:H:774:ARG:NH1	2.69	0.41
1:G:118:TYR:HB3	1:G:123:ASP:H	1.85	0.41
1:F:289:HIS:HE1	1:G:119:PRO:HA	1.82	0.41
1:C:749:GLN:NE2	1:C:774:ARG:HH12	2.19	0.41
1:D:480:ILE:HD12	1:D:557:CYS:HB2	2.02	0.41
1:F:118:TYR:HB3	1:F:123:ASP:H	1.85	0.41
1:B:150:GLU:HG3	1:B:152:LEU:HD21	2.02	0.41
1:F:559:ILE:HG12	1:F:598:PHE:HB2	2.03	0.41
1:B:518:LEU:HD22	1:B:549:ILE:HG22	2.02	0.41
1:E:400:GLY:HA2	1:E:405:LYS:O	2.20	0.41
1:K:742:SER:OG	1:K:769:ILE:O	2.29	0.41
1:G:987:LEU:HA	1:G:987:LEU:HD12	2.00	0.41
1:I:162:LYS:H	1:I:293:LEU:HD22	1.84	0.41
1:E:210:GLY:HA2	1:E:211:GLY:C	2.41	0.41
1:J:397:ALA:HB1	1:J:447:GLN:HE21	1.85	0.41
1:C:264:LEU:H	1:C:264:LEU:HG	1.68	0.41
1:G:210:GLY:HA2	1:G:211:GLY:C	2.41	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:956:TYR:O	1:C:959:ASN:HB2	2.21	0.41
1:G:526:ARG:HB2	1:G:527:PRO:HD3	2.01	0.41
1:K:168:GLU:O	1:K:296:GLU:HA	2.20	0.41
1:C:124:ILE:N	1:C:125:ASP:HA	2.34	0.41
1:I:289:HIS:HE1	1:J:119:PRO:HA	1.81	0.41
1:J:418:GLU:C	1:J:420:VAL:N	2.74	0.41
1:J:893:HIS:CB	1:J:919:LEU:HD23	2.50	0.41
1:C:418:GLU:C	1:C:420:VAL:N	2.74	0.41
1:K:944:LEU:O	1:K:973:SER:OG	2.37	0.41
1:K:118:TYR:HB3	1:K:123:ASP:H	1.85	0.41
1:C:663:GLU:OE1	1:C:691:ARG:HD2	2.20	0.41
1:H:534:ILE:CG2	1:H:613:LYS:HZ1	2.34	0.41
1:I:749:GLN:NE2	1:I:774:ARG:HH12	2.19	0.41
1:K:844:LEU:HD23	1:K:874:ARG:HB3	2.02	0.41
1:I:844:LEU:HD23	1:I:874:ARG:HB3	2.02	0.41
1:D:909:LEU:HD12	1:D:909:LEU:HA	1.85	0.41
1:F:329:ARG:NH1	1:F:332:ARG:HD3	2.35	0.41
1:G:329:ARG:NH1	1:G:332:ARG:HD3	2.35	0.41
1:H:329:ARG:HD3	1:H:329:ARG:HA	1.77	0.41
1:G:823:GLN:HA	1:G:850:LEU:HA	2.01	0.41
1:J:136:GLU:OE1	1:J:153:THR:HB	2.19	0.41
1:B:559:ILE:HG12	1:B:598:PHE:HB2	2.03	0.41
1:E:559:ILE:HG12	1:E:598:PHE:HB2	2.03	0.41
1:C:559:ILE:HG12	1:C:598:PHE:HB2	2.03	0.41
1:K:239:LEU:HB3	1:K:242:GLU:HB2	2.01	0.41
1:I:322:TRP:O	1:I:326:GLN:HG2	2.21	0.41
1:E:956:TYR:O	1:E:959:ASN:HB2	2.21	0.41
1:A:772:ASP:HA	1:A:800:HIS:O	2.20	0.41
1:F:772:ASP:HA	1:F:800:HIS:O	2.20	0.41
1:J:197:PHE:CE1	1:J:274:MET:HB2	2.56	0.41
1:A:322:TRP:O	1:A:326:GLN:HG2	2.21	0.41
1:K:197:PHE:CE1	1:K:274:MET:HB2	2.56	0.41
1:I:772:ASP:HA	1:I:800:HIS:O	2.20	0.41
1:H:397:ALA:HB1	1:H:447:GLN:HE21	1.85	0.41
1:C:128:PHE:CD2	1:C:311:ALA:HB1	2.55	0.41
1:H:869:GLN:HG3	1:H:898:LYS:HZ3	1.86	0.41
1:K:422:VAL:HG11	1:K:429:LYS:HG2	2.01	0.41
1:D:787:LEU:HD12	1:D:814:SER:HB3	2.03	0.41
1:I:787:LEU:HD12	1:I:814:SER:HB3	2.03	0.41
1:I:203:ILE:N	1:I:246:LEU:O	2.46	0.41
1:A:663:GLU:OE1	1:A:691:ARG:HD2	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:586:ILE:N	1:B:613:LYS:O	2.48	0.41
1:C:693:HIS:HD2	1:C:694:ILE:N	2.18	0.41
1:B:552:ASN:HB2	1:B:584:LEU:HD12	2.02	0.41
1:D:289:HIS:HE1	1:E:119:PRO:HA	1.82	0.41
1:E:617:TYR:CE2	1:E:618:GLU:HB2	2.55	0.41
1:F:791:LYS:HE3	1:F:819:SER:O	2.21	0.41
1:I:759:LEU:HD23	1:I:762:LEU:HD12	2.02	0.41
1:G:791:LYS:HE3	1:G:819:SER:O	2.21	0.41
1:E:791:LYS:HE3	1:E:819:SER:O	2.21	0.41
1:B:985:ARG:HE	1:C:685:SER:CB	2.33	0.41
1:G:559:ILE:HG12	1:G:598:PHE:HB2	2.03	0.41
1:F:518:LEU:HD22	1:F:549:ILE:HG22	2.02	0.41
1:A:987:LEU:HD12	1:A:987:LEU:HA	2.00	0.41
1:F:322:TRP:O	1:F:326:GLN:HG2	2.21	0.41
1:C:695:LYS:NZ	1:C:720:GLU:OE2	2.51	0.41
1:K:108:LEU:HA	1:K:108:LEU:HD23	1.84	0.41
1:K:227:ILE:H	1:K:227:ILE:HG13	1.65	0.41
1:H:210:GLY:HA2	1:H:211:GLY:C	2.41	0.41
1:F:526:ARG:HB2	1:F:527:PRO:HD3	2.01	0.41
1:F:907:PRO:HA	1:F:936:LEU:HD13	2.02	0.41
1:J:907:PRO:HA	1:J:936:LEU:HD13	2.02	0.41
1:D:124:ILE:N	1:D:125:ASP:HA	2.34	0.41
1:E:128:PHE:CD2	1:E:311:ALA:HB1	2.55	0.41
1:G:415:SER:C	1:G:417:ASN:N	2.73	0.41
1:F:915:LYS:HE3	1:F:915:LYS:HB2	1.70	0.41
1:F:893:HIS:CB	1:F:919:LEU:HD23	2.50	0.41
1:A:896:LEU:CD1	1:A:899:LEU:HD23	2.50	0.41
1:A:787:LEU:HD12	1:A:814:SER:HB3	2.03	0.41
1:C:787:LEU:HD12	1:C:814:SER:HB3	2.03	0.41
1:I:422:VAL:HG11	1:I:429:LYS:HG2	2.01	0.41
1:D:534:ILE:HA	1:D:534:ILE:HD12	1.92	0.41
1:G:663:GLU:OE1	1:G:691:ARG:HD2	2.20	0.41
1:E:663:GLU:OE1	1:E:691:ARG:HD2	2.20	0.41
1:F:844:LEU:HD23	1:F:874:ARG:HB3	2.02	0.41
1:G:749:GLN:NE2	1:G:774:ARG:NH1	2.69	0.41
1:C:618:GLU:CD	1:C:619:ARG:NH1	2.73	0.41
1:H:329:ARG:NH1	1:H:332:ARG:HD3	2.35	0.41
1:B:759:LEU:HD23	1:B:762:LEU:HD12	2.02	0.41
1:I:759:LEU:HD11	1:I:783:LEU:HD12	2.03	0.41
1:K:759:LEU:HD11	1:K:783:LEU:HD12	2.03	0.41
1:K:150:GLU:HG3	1:K:152:LEU:HD21	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:150:GLU:HG3	1:A:152:LEU:HD21	2.02	0.41
1:F:987:LEU:HD12	1:F:987:LEU:HA	2.00	0.41
1:I:197:PHE:CE1	1:I:274:MET:HB2	2.56	0.41
1:A:306:LYS:HD2	1:A:322:TRP:CZ3	2.55	0.41
1:B:168:GLU:O	1:B:296:GLU:HA	2.20	0.41
1:C:934:ASN:HA	1:C:935:PRO:HD3	1.78	0.41
1:H:772:ASP:HA	1:H:800:HIS:O	2.20	0.41
1:I:210:GLY:HA2	1:I:211:GLY:C	2.41	0.41
1:D:210:GLY:HA2	1:D:211:GLY:C	2.41	0.41
1:E:455:LEU:HD23	1:E:455:LEU:HA	1.69	0.41
1:D:893:HIS:CB	1:D:919:LEU:HD23	2.50	0.41
1:K:418:GLU:C	1:K:420:VAL:N	2.74	0.41
1:B:418:GLU:C	1:B:420:VAL:N	2.74	0.41
1:A:418:GLU:C	1:A:420:VAL:H	2.24	0.41
1:A:418:GLU:C	1:A:420:VAL:N	2.74	0.41
1:A:869:GLN:HG3	1:A:898:LYS:HZ3	1.86	0.41
1:H:893:HIS:CB	1:H:919:LEU:HD23	2.50	0.41
1:H:892:VAL:CG1	1:H:917:TRP:HA	2.50	0.41
1:I:418:GLU:C	1:I:420:VAL:H	2.24	0.41
1:D:770:LEU:HD23	1:D:770:LEU:HA	1.74	0.41
1:J:770:LEU:HA	1:J:770:LEU:HD23	1.74	0.41
1:E:787:LEU:HD12	1:E:814:SER:HB3	2.03	0.41
1:A:118:TYR:HB3	1:A:123:ASP:H	1.85	0.41
1:F:986:LYS:O	1:F:990:VAL:HG23	2.21	0.41
1:A:203:ILE:N	1:A:246:LEU:O	2.46	0.41
1:D:986:LYS:O	1:D:990:VAL:HG23	2.21	0.41
1:K:955:LEU:CD1	1:K:986:LYS:HG3	2.44	0.41
1:J:203:ILE:N	1:J:246:LEU:O	2.46	0.41
1:D:182:ILE:HA	1:D:182:ILE:HD12	1.83	0.41
1:C:657:GLN:HA	1:C:658:GLU:HA	1.75	0.41
1:K:663:GLU:OE1	1:K:691:ARG:HD2	2.20	0.41
1:I:552:ASN:HB2	1:I:584:LEU:HD12	2.02	0.41
1:A:406:PHE:HB2	1:A:444:LYS:HD2	2.03	0.41
1:K:552:ASN:HB2	1:K:584:LEU:HD12	2.02	0.41
1:E:659:PHE:O	1:E:687:ALA:HA	2.21	0.41
1:C:844:LEU:HD23	1:C:874:ARG:HB3	2.02	0.41
1:D:701:ALA:C	1:D:703:ARG:H	2.23	0.41
1:J:749:GLN:NE2	1:J:774:ARG:HH12	2.19	0.41
1:J:749:GLN:NE2	1:J:774:ARG:NH1	2.69	0.41
1:D:844:LEU:HD23	1:D:874:ARG:HB3	2.03	0.41
1:A:749:GLN:NE2	1:A:774:ARG:NH1	2.69	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:701:ALA:C	1:A:703:ARG:H	2.23	0.41
1:H:480:ILE:HD12	1:H:557:CYS:HB2	2.02	0.41
1:I:618:GLU:CD	1:I:619:ARG:NH1	2.73	0.41
1:G:701:ALA:C	1:G:703:ARG:H	2.23	0.41
1:E:329:ARG:NH1	1:E:332:ARG:HD3	2.35	0.41
1:D:118:TYR:HB3	1:D:123:ASP:H	1.85	0.41
1:B:759:LEU:HD11	1:B:783:LEU:HD12	2.03	0.41
1:C:759:LEU:HD23	1:C:762:LEU:HD12	2.02	0.41
1:C:759:LEU:HD11	1:C:783:LEU:HD12	2.03	0.41
1:D:791:LYS:HE3	1:D:819:SER:O	2.21	0.41
1:B:791:LYS:HE3	1:B:819:SER:O	2.21	0.41
1:H:756:ILE:H	1:H:756:ILE:HG13	1.66	0.41
1:C:791:LYS:HE3	1:C:819:SER:O	2.21	0.41
1:E:759:LEU:HD11	1:E:783:LEU:HD12	2.03	0.41
1:A:559:ILE:HG12	1:A:598:PHE:HB2	2.03	0.41
1:H:559:ILE:HG12	1:H:598:PHE:HB2	2.03	0.41
1:E:518:LEU:HD22	1:E:549:ILE:HG22	2.02	0.41
1:I:537:LEU:HD12	1:I:537:LEU:O	2.21	0.41
1:I:320:ARG:HD3	1:I:353:GLU:HB2	2.03	0.41
1:G:320:ARG:HD3	1:G:353:GLU:HB2	2.03	0.41
1:C:987:LEU:HA	1:C:987:LEU:HD12	2.00	0.41
1:C:322:TRP:O	1:C:326:GLN:HG2	2.21	0.41
1:J:195:LYS:C	1:J:197:PHE:H	2.23	0.41
1:G:934:ASN:HA	1:G:935:PRO:HD3	1.78	0.41
1:I:695:LYS:NZ	1:I:720:GLU:OE2	2.51	0.41
1:A:108:LEU:HD23	1:A:108:LEU:HA	1.84	0.41
1:B:210:GLY:HA2	1:B:211:GLY:C	2.41	0.41
1:A:197:PHE:CE1	1:A:274:MET:HB2	2.56	0.41
1:E:772:ASP:HA	1:E:800:HIS:O	2.20	0.41
1:H:197:PHE:CE1	1:H:274:MET:HB2	2.56	0.41
1:D:574:GLU:OE1	1:D:574:GLU:N	2.52	0.41
1:B:901:LYS:HD2	1:B:901:LYS:HA	1.95	0.41
1:G:956:TYR:O	1:G:959:ASN:HB2	2.21	0.41
1:J:306:LYS:HD2	1:J:322:TRP:CZ3	2.55	0.41
1:J:956:TYR:O	1:J:959:ASN:HB2	2.21	0.41
1:K:312:VAL:HA	1:J:145:ARG:HG2	2.02	0.41
1:H:418:GLU:C	1:H:420:VAL:N	2.74	0.41
1:D:418:GLU:C	1:D:420:VAL:H	2.24	0.41
1:J:787:LEU:HD12	1:J:814:SER:HB3	2.03	0.41
1:G:787:LEU:HD12	1:G:814:SER:HB3	2.03	0.41
1:K:203:ILE:N	1:K:246:LEU:O	2.46	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:986:LYS:O	1:B:990:VAL:HG23	2.21	0.41
1:J:552:ASN:HB2	1:J:584:LEU:HD12	2.01	0.41
1:C:491:LEU:O	1:C:494:THR:OG1	2.23	0.41
1:E:480:ILE:HD12	1:E:557:CYS:HB2	2.02	0.41
1:G:759:LEU:HD11	1:G:783:LEU:HD12	2.03	0.41
1:H:985:ARG:HE	1:I:685:SER:CB	2.34	0.41
1:B:164:PRO:HD2	1:B:291:GLY:HA2	2.03	0.41
1:I:559:ILE:HG12	1:I:598:PHE:HB2	2.03	0.41
1:D:559:ILE:HG12	1:D:598:PHE:HB2	2.03	0.41
1:D:518:LEU:HD22	1:D:549:ILE:HG22	2.02	0.41
1:C:518:LEU:HD22	1:C:549:ILE:HG22	2.02	0.41
1:H:759:LEU:HD23	1:H:762:LEU:HD12	2.02	0.41
1:J:320:ARG:HD3	1:J:353:GLU:HB2	2.03	0.41
1:K:320:ARG:HD3	1:K:353:GLU:HB2	2.03	0.41
1:A:537:LEU:HD12	1:A:537:LEU:O	2.21	0.41
1:D:537:LEU:O	1:D:537:LEU:HD12	2.21	0.41
1:H:322:TRP:O	1:H:326:GLN:HG2	2.21	0.41
1:J:322:TRP:O	1:J:326:GLN:HG2	2.21	0.41
1:J:604:ASN:C	1:J:606:ALA:H	2.25	0.41
1:A:934:ASN:HA	1:A:935:PRO:HD3	1.78	0.41
1:H:148:ARG:NH2	1:H:298:GLY:HA2	2.35	0.41
1:A:301:THR:HG22	1:A:303:ASP:H	1.86	0.41
1:K:907:PRO:HA	1:K:936:LEU:HD13	2.02	0.41
1:D:956:TYR:O	1:D:959:ASN:HB2	2.21	0.41
1:C:458:LEU:O	1:C:461:SER:OG	2.26	0.40
1:D:418:GLU:C	1:D:420:VAL:N	2.74	0.40
1:E:418:GLU:C	1:E:420:VAL:H	2.24	0.40
1:F:868:LEU:HD11	1:F:917:TRP:HZ2	1.87	0.40
1:J:869:GLN:HG3	1:J:898:LYS:HZ3	1.86	0.40
1:A:986:LYS:O	1:A:990:VAL:HG23	2.21	0.40
1:A:386:PHE:O	1:A:389:SER:OG	2.26	0.40
1:A:860:LEU:HD12	1:A:864:GLY:CA	2.49	0.40
1:K:406:PHE:HB2	1:K:444:LYS:HD2	2.03	0.40
1:F:749:GLN:NE2	1:F:774:ARG:HH12	2.19	0.40
1:D:749:GLN:NE2	1:D:774:ARG:HH12	2.19	0.40
1:E:618:GLU:CD	1:E:619:ARG:NH1	2.73	0.40
1:H:659:PHE:O	1:H:687:ALA:HA	2.21	0.40
1:D:659:PHE:O	1:D:687:ALA:HA	2.21	0.40
1:B:329:ARG:HD3	1:B:329:ARG:HA	1.77	0.40
1:J:791:LYS:HE3	1:J:819:SER:O	2.21	0.40
1:H:791:LYS:HE3	1:H:819:SER:O	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:164:PRO:HD2	1:C:291:GLY:HA2	2.03	0.40
1:I:537:LEU:HD22	1:I:742:SER:HB2	2.04	0.40
1:G:537:LEU:HD12	1:G:537:LEU:O	2.21	0.40
1:A:320:ARG:HD3	1:A:353:GLU:HB2	2.03	0.40
1:F:320:ARG:HD3	1:F:353:GLU:HB2	2.03	0.40
1:H:320:ARG:HD3	1:H:353:GLU:HB2	2.04	0.40
1:K:322:TRP:O	1:K:326:GLN:HG2	2.21	0.40
1:E:322:TRP:O	1:E:326:GLN:HG2	2.21	0.40
1:G:907:PRO:HA	1:G:936:LEU:HD13	2.02	0.40
1:F:813:LYS:HD2	1:F:813:LYS:HA	1.78	0.40
1:K:301:THR:HG22	1:K:303:ASP:H	1.87	0.40
1:F:398:LEU:HD22	1:F:402:PHE:HE2	1.83	0.40
1:A:393:CYS:HB3	1:A:418:GLU:OE1	2.21	0.40
1:C:393:CYS:HB3	1:C:418:GLU:OE1	2.21	0.40
1:I:986:LYS:O	1:I:990:VAL:HG23	2.21	0.40
1:F:182:ILE:HD12	1:F:182:ILE:HA	1.83	0.40
1:I:182:ILE:HD12	1:I:182:ILE:HA	1.83	0.40
1:A:586:ILE:N	1:A:613:LYS:O	2.48	0.40
1:H:534:ILE:HA	1:H:534:ILE:HD12	1.92	0.40
1:G:331:LEU:HD23	1:G:334:LEU:HD11	2.04	0.40
1:I:749:GLN:NE2	1:I:774:ARG:NH1	2.69	0.40
1:G:844:LEU:HD23	1:G:874:ARG:HB3	2.02	0.40
1:C:749:GLN:NE2	1:C:774:ARG:NH1	2.69	0.40
1:K:662:LEU:HB2	1:K:687:ALA:HB2	2.03	0.40
1:J:662:LEU:HB2	1:J:687:ALA:HB2	2.03	0.40
1:F:701:ALA:C	1:F:703:ARG:H	2.23	0.40
1:I:329:ARG:NH1	1:I:332:ARG:HD3	2.35	0.40
1:A:164:PRO:HD2	1:A:291:GLY:HA2	2.04	0.40
1:B:320:ARG:HD3	1:B:353:GLU:HB2	2.03	0.40
1:A:537:LEU:HD22	1:A:742:SER:HB2	2.04	0.40
1:B:537:LEU:HD12	1:B:537:LEU:O	2.21	0.40
1:B:537:LEU:HD22	1:B:742:SER:HB2	2.04	0.40
1:B:301:THR:HG22	1:B:303:ASP:H	1.87	0.40
1:I:956:TYR:O	1:I:959:ASN:HB2	2.21	0.40
1:J:301:THR:HG22	1:J:303:ASP:H	1.87	0.40
1:H:393:CYS:HB3	1:H:418:GLU:OE1	2.21	0.40
1:B:869:GLN:HG3	1:B:898:LYS:HZ3	1.86	0.40
1:B:944:LEU:O	1:B:973:SER:OG	2.38	0.40
1:G:393:CYS:HB3	1:G:418:GLU:OE1	2.21	0.40
1:G:421:LEU:O	1:G:425:GLY:N	2.42	0.40
1:H:868:LEU:HD11	1:H:917:TRP:HZ2	1.87	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:982:ALA:O	1:D:986:LYS:HG2	2.22	0.40
1:E:986:LYS:O	1:E:990:VAL:HG23	2.21	0.40
1:A:534:ILE:HG22	1:A:613:LYS:HZ1	1.87	0.40
1:K:716:THR:HG23	1:K:740:ASN:O	2.22	0.40
1:J:534:ILE:N	1:J:693:HIS:HB2	2.37	0.40
1:J:716:THR:HG23	1:J:740:ASN:O	2.22	0.40
1:I:331:LEU:HD23	1:I:334:LEU:HD11	2.04	0.40
1:J:552:ASN:HB2	1:J:584:LEU:CD1	2.52	0.40
1:K:552:ASN:HB2	1:K:584:LEU:CD1	2.52	0.40
1:B:406:PHE:HB2	1:B:444:LYS:HD2	2.03	0.40
1:E:968:VAL:O	1:E:997:LEU:HD12	2.20	0.40
1:E:612:VAL:HG23	1:E:659:PHE:CZ	2.57	0.40
1:D:749:GLN:NE2	1:D:774:ARG:NH1	2.69	0.40
1:J:612:VAL:HG23	1:J:659:PHE:CZ	2.57	0.40
1:J:659:PHE:O	1:J:687:ALA:HA	2.20	0.40
1:D:456:SER:HB3	1:D:497:SER:CB	2.52	0.40
1:D:759:LEU:HD11	1:D:783:LEU:HD12	2.03	0.40
1:D:759:LEU:HD23	1:D:762:LEU:HD12	2.02	0.40
1:J:559:ILE:HG12	1:J:598:PHE:HB2	2.03	0.40
1:K:559:ILE:HG12	1:K:598:PHE:HB2	2.03	0.40
1:F:320:ARG:NH1	1:F:352:GLN:O	2.41	0.40
1:K:987:LEU:HA	1:K:987:LEU:HD12	2.00	0.40
1:K:140:TRP:N	1:K:296:GLU:O	2.53	0.40
1:K:995:THR:OG1	1:K:996:LEU:N	2.55	0.40
1:I:995:THR:OG1	1:I:996:LEU:N	2.55	0.40
1:F:956:TYR:O	1:F:959:ASN:HB2	2.21	0.40
1:J:995:THR:OG1	1:J:996:LEU:N	2.55	0.40
1:I:574:GLU:OE1	1:I:574:GLU:N	2.52	0.40
1:J:574:GLU:N	1:J:574:GLU:OE1	2.52	0.40
1:B:956:TYR:O	1:B:959:ASN:HB2	2.21	0.40
1:I:301:THR:HG22	1:I:303:ASP:H	1.87	0.40
1:G:398:LEU:HD22	1:G:402:PHE:HE2	1.83	0.40
1:H:418:GLU:C	1:H:420:VAL:H	2.24	0.40
1:I:868:LEU:HD11	1:I:917:TRP:HZ2	1.87	0.40
1:K:868:LEU:HD11	1:K:917:TRP:HZ2	1.87	0.40
1:F:418:GLU:C	1:F:420:VAL:H	2.24	0.40
1:A:122:GLU:HB3	1:A:124:ILE:HG12	2.04	0.40
1:H:986:LYS:O	1:H:990:VAL:HG23	2.21	0.40
1:G:982:ALA:O	1:G:986:LYS:HG2	2.22	0.40
1:C:337:THR:HA	1:C:338:PRO:HD3	1.96	0.40
1:K:534:ILE:CG2	1:K:613:LYS:HZ1	2.34	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:534:ILE:N	1:B:693:HIS:HB2	2.37	0.40
1:K:331:LEU:HD23	1:K:334:LEU:HD11	2.04	0.40
1:I:534:ILE:N	1:I:693:HIS:HB2	2.37	0.40
1:C:716:THR:HG23	1:C:740:ASN:O	2.22	0.40
1:D:716:THR:HG23	1:D:740:ASN:O	2.22	0.40
1:G:716:THR:HG23	1:G:740:ASN:O	2.22	0.40
1:F:534:ILE:N	1:F:693:HIS:HB2	2.37	0.40
1:H:201:PHE:HB2	1:H:245:PHE:HD1	1.87	0.40
1:C:201:PHE:HB2	1:C:245:PHE:HD1	1.87	0.40
1:H:662:LEU:HA	1:H:662:LEU:HD23	1.82	0.40
1:I:662:LEU:HA	1:I:662:LEU:HD23	1.82	0.40
1:C:612:VAL:HG23	1:C:659:PHE:CZ	2.57	0.40
1:A:791:LYS:HE3	1:A:819:SER:O	2.21	0.40
1:A:759:LEU:HD11	1:A:783:LEU:HD12	2.03	0.40
1:D:222:ASN:O	1:D:224:PRO:HD3	2.22	0.40
1:G:759:LEU:HD23	1:G:762:LEU:HD12	2.02	0.40
1:C:571:LEU:HD23	1:C:571:LEU:HA	1.87	0.40
1:D:164:PRO:HD2	1:D:291:GLY:HA2	2.03	0.40
1:A:662:LEU:HB2	1:A:687:ALA:HB2	2.03	0.40
1:F:759:LEU:HD23	1:F:762:LEU:HD12	2.02	0.40
1:J:537:LEU:HD22	1:J:742:SER:HB2	2.04	0.40
1:D:537:LEU:HD22	1:D:742:SER:HB2	2.04	0.40
1:J:987:LEU:HD12	1:J:987:LEU:HA	2.00	0.40
1:D:322:TRP:O	1:D:326:GLN:HG2	2.21	0.40
1:H:301:THR:HG22	1:H:303:ASP:H	1.87	0.40
1:B:604:ASN:C	1:B:606:ALA:H	2.25	0.40
1:K:956:TYR:O	1:K:959:ASN:HB2	2.21	0.40
1:I:122:GLU:HB3	1:I:124:ILE:HG12	2.04	0.40
1:J:122:GLU:HB3	1:J:124:ILE:HG12	2.04	0.40
1:B:418:GLU:C	1:B:420:VAL:H	2.24	0.40
1:D:370:LEU:HA	1:D:370:LEU:HD23	1.65	0.40
1:I:961:PHE:HZ	1:I:970:PHE:CD2	2.40	0.40
1:H:961:PHE:HZ	1:H:970:PHE:CD2	2.40	0.40
1:A:534:ILE:N	1:A:693:HIS:HB2	2.37	0.40
1:K:586:ILE:N	1:K:613:LYS:O	2.48	0.40
1:B:663:GLU:OE1	1:B:691:ARG:HD2	2.20	0.40
1:E:796:LEU:O	1:E:797:HIS:HD2	2.05	0.40
1:E:396:LEU:HD23	1:E:396:LEU:HA	1.81	0.40
1:J:924:ILE:HD12	1:J:924:ILE:HA	1.94	0.40
1:J:796:LEU:O	1:J:797:HIS:HD2	2.05	0.40
1:F:612:VAL:HG23	1:F:659:PHE:CZ	2.57	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:662:LEU:HA	1:F:662:LEU:HD23	1.82	0.40
1:K:201:PHE:HB2	1:K:245:PHE:HD1	1.87	0.40
1:J:396:LEU:HD23	1:J:396:LEU:HA	1.81	0.40
1:B:749:GLN:NE2	1:B:774:ARG:NH1	2.69	0.40
1:B:662:LEU:HB2	1:B:687:ALA:HB2	2.03	0.40
1:E:749:GLN:NE2	1:E:774:ARG:HH12	2.19	0.40
1:G:480:ILE:HD12	1:G:557:CYS:HB2	2.02	0.40
1:E:329:ARG:HA	1:E:329:ARG:HD3	1.77	0.40
1:J:329:ARG:NH1	1:J:332:ARG:HD3	2.35	0.40
1:A:456:SER:HB3	1:A:497:SER:CB	2.52	0.40
1:I:791:LYS:HE3	1:I:819:SER:O	2.21	0.40
1:B:523:VAL:HG23	1:B:545:VAL:HB	2.04	0.40
1:H:537:LEU:HD22	1:H:742:SER:HB2	2.04	0.40
1:K:537:LEU:HD12	1:K:537:LEU:O	2.21	0.40
1:E:320:ARG:NH1	1:E:352:GLN:O	2.41	0.40
1:E:320:ARG:HD3	1:E:353:GLU:HB2	2.03	0.40
1:F:140:TRP:N	1:F:296:GLU:O	2.53	0.40
1:B:197:PHE:CE1	1:B:274:MET:HB2	2.56	0.40
1:H:574:GLU:OE1	1:H:574:GLU:N	2.52	0.40
1:C:434:ARG:HH11	1:C:434:ARG:HD2	1.77	0.40
1:J:264:LEU:H	1:J:264:LEU:HG	1.67	0.40
1:G:301:THR:HG22	1:G:303:ASP:H	1.87	0.40
1:C:301:THR:HG22	1:C:303:ASP:H	1.86	0.40
1:H:995:THR:OG1	1:H:996:LEU:N	2.55	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	904/932 (97%)	823 (91%)	65 (7%)	16 (2%)	11 55

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	B	904/932 (97%)	823 (91%)	65 (7%)	16 (2%)	11	55
1	C	904/932 (97%)	822 (91%)	66 (7%)	16 (2%)	11	55
1	D	904/932 (97%)	823 (91%)	65 (7%)	16 (2%)	11	55
1	E	904/932 (97%)	823 (91%)	65 (7%)	16 (2%)	11	55
1	F	904/932 (97%)	823 (91%)	65 (7%)	16 (2%)	11	55
1	G	904/932 (97%)	823 (91%)	65 (7%)	16 (2%)	11	55
1	H	904/932 (97%)	823 (91%)	65 (7%)	16 (2%)	11	55
1	I	904/932 (97%)	822 (91%)	66 (7%)	16 (2%)	11	55
1	J	904/932 (97%)	822 (91%)	66 (7%)	16 (2%)	11	55
1	K	904/932 (97%)	823 (91%)	65 (7%)	16 (2%)	11	55
All	All	9944/10252 (97%)	9050 (91%)	718 (7%)	176 (2%)	15	55

All (176) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	K	146	HIS
1	K	241	LYS
1	K	272	LYS
1	K	442	PHE
1	K	481	SER
1	K	568	LYS
1	A	146	HIS
1	A	241	LYS
1	A	272	LYS
1	A	442	PHE
1	A	481	SER
1	A	568	LYS
1	B	146	HIS
1	B	241	LYS
1	B	272	LYS
1	B	442	PHE
1	B	481	SER
1	B	568	LYS
1	C	146	HIS
1	C	241	LYS
1	C	272	LYS
1	C	442	PHE
1	C	481	SER

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Mol	Chain	Res	Type
1	C	568	LYS
1	D	146	HIS
1	D	241	LYS
1	D	272	LYS
1	D	442	PHE
1	D	481	SER
1	D	568	LYS
1	E	146	HIS
1	E	241	LYS
1	E	272	LYS
1	E	442	PHE
1	E	481	SER
1	E	568	LYS
1	F	146	HIS
1	F	241	LYS
1	F	272	LYS
1	F	442	PHE
1	F	481	SER
1	F	568	LYS
1	G	146	HIS
1	G	241	LYS
1	G	272	LYS
1	G	442	PHE
1	G	481	SER
1	G	568	LYS
1	H	146	HIS
1	H	241	LYS
1	H	272	LYS
1	H	442	PHE
1	H	481	SER
1	H	568	LYS
1	I	146	HIS
1	I	241	LYS
1	I	272	LYS
1	I	442	PHE
1	I	481	SER
1	I	568	LYS
1	J	146	HIS
1	J	241	LYS
1	J	272	LYS
1	J	442	PHE
1	J	481	SER

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Mol	Chain	Res	Type
1	J	568	LYS
1	K	544	ASP
1	K	599	PHE
1	A	544	ASP
1	A	599	PHE
1	B	544	ASP
1	B	599	PHE
1	C	544	ASP
1	C	599	PHE
1	D	544	ASP
1	D	599	PHE
1	E	544	ASP
1	E	599	PHE
1	F	544	ASP
1	F	599	PHE
1	G	544	ASP
1	G	599	PHE
1	H	544	ASP
1	H	599	PHE
1	I	544	ASP
1	I	599	PHE
1	J	544	ASP
1	J	599	PHE
1	K	1010	TYR
1	A	1010	TYR
1	B	1010	TYR
1	C	1010	TYR
1	D	1010	TYR
1	E	1010	TYR
1	F	1010	TYR
1	G	1010	TYR
1	H	1010	TYR
1	I	1010	TYR
1	J	1010	TYR
1	K	118	TYR
1	K	404	HIS
1	K	437	PRO
1	K	479	SER
1	A	118	TYR
1	A	404	HIS
1	A	437	PRO
1	A	479	SER

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Mol	Chain	Res	Type
1	B	118	TYR
1	B	404	HIS
1	B	437	PRO
1	B	479	SER
1	C	118	TYR
1	C	404	HIS
1	C	437	PRO
1	C	479	SER
1	D	118	TYR
1	D	404	HIS
1	D	437	PRO
1	D	479	SER
1	E	118	TYR
1	E	404	HIS
1	E	437	PRO
1	F	118	TYR
1	F	404	HIS
1	F	437	PRO
1	F	479	SER
1	G	118	TYR
1	G	404	HIS
1	G	437	PRO
1	G	479	SER
1	H	118	TYR
1	H	404	HIS
1	H	437	PRO
1	H	479	SER
1	I	118	TYR
1	I	404	HIS
1	I	437	PRO
1	J	118	TYR
1	J	404	HIS
1	J	437	PRO
1	J	479	SER
1	K	499	THR
1	A	499	THR
1	B	499	THR
1	C	499	THR
1	D	499	THR
1	E	479	SER
1	E	499	THR
1	F	499	THR

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Mol	Chain	Res	Type
1	G	499	THR
1	H	499	THR
1	I	479	SER
1	I	499	THR
1	J	499	THR
1	K	227	ILE
1	A	227	ILE
1	B	227	ILE
1	C	227	ILE
1	D	227	ILE
1	E	227	ILE
1	F	227	ILE
1	G	227	ILE
1	H	227	ILE
1	I	227	ILE
1	J	227	ILE
1	K	127	ILE
1	A	127	ILE
1	B	127	ILE
1	C	127	ILE
1	D	127	ILE
1	E	127	ILE
1	F	127	ILE
1	G	127	ILE
1	H	127	ILE
1	I	127	ILE
1	J	127	ILE

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	810/830 (98%)	784 (97%)	26 (3%)	46	77
1	B	810/830 (98%)	784 (97%)	26 (3%)	46	77
1	C	810/830 (98%)	784 (97%)	26 (3%)	46	77

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	D	810/830 (98%)	784 (97%)	26 (3%)	46	77
1	E	810/830 (98%)	784 (97%)	26 (3%)	46	77
1	F	810/830 (98%)	784 (97%)	26 (3%)	46	77
1	G	810/830 (98%)	784 (97%)	26 (3%)	46	77
1	H	810/830 (98%)	784 (97%)	26 (3%)	46	77
1	I	810/830 (98%)	784 (97%)	26 (3%)	46	77
1	J	810/830 (98%)	784 (97%)	26 (3%)	46	77
1	K	810/830 (98%)	784 (97%)	26 (3%)	46	77
All	All	8910/9130 (98%)	8624 (97%)	286 (3%)	50	77

All (286) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	K	117	PHE
1	K	118	TYR
1	K	152	LEU
1	K	168	GLU
1	K	182	ILE
1	K	217	TYR
1	K	221	LEU
1	K	250	TYR
1	K	264	LEU
1	K	284	LEU
1	K	358	THR
1	K	415	SER
1	K	437	PRO
1	K	487	TYR
1	K	529	TRP
1	K	576	GLU
1	K	585	TYR
1	K	614	LEU
1	K	659	PHE
1	K	663	GLU
1	K	762	LEU
1	K	883	THR
1	K	947	HIS
1	K	970	PHE
1	K	1007	PHE
1	K	1021	LEU

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Mol	Chain	Res	Type
1	A	117	PHE
1	A	118	TYR
1	A	152	LEU
1	A	168	GLU
1	A	182	ILE
1	A	217	TYR
1	A	221	LEU
1	A	250	TYR
1	A	264	LEU
1	A	284	LEU
1	A	358	THR
1	A	415	SER
1	A	437	PRO
1	A	487	TYR
1	A	529	TRP
1	A	576	GLU
1	A	585	TYR
1	A	614	LEU
1	A	659	PHE
1	A	663	GLU
1	A	762	LEU
1	A	883	THR
1	A	947	HIS
1	A	970	PHE
1	A	1007	PHE
1	A	1021	LEU
1	B	117	PHE
1	B	118	TYR
1	B	152	LEU
1	B	168	GLU
1	B	182	ILE
1	B	217	TYR
1	B	221	LEU
1	B	250	TYR
1	B	264	LEU
1	B	284	LEU
1	B	358	THR
1	B	415	SER
1	B	437	PRO
1	B	487	TYR
1	B	529	TRP
1	B	576	GLU

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Mol	Chain	Res	Type
1	B	585	TYR
1	B	614	LEU
1	B	659	PHE
1	B	663	GLU
1	B	762	LEU
1	B	883	THR
1	B	947	HIS
1	B	970	PHE
1	B	1007	PHE
1	B	1021	LEU
1	C	117	PHE
1	C	118	TYR
1	C	152	LEU
1	C	168	GLU
1	C	182	ILE
1	C	217	TYR
1	C	221	LEU
1	C	250	TYR
1	C	264	LEU
1	C	284	LEU
1	C	358	THR
1	C	415	SER
1	C	437	PRO
1	C	487	TYR
1	C	529	TRP
1	C	576	GLU
1	C	585	TYR
1	C	614	LEU
1	C	659	PHE
1	C	663	GLU
1	C	762	LEU
1	C	883	THR
1	C	947	HIS
1	C	970	PHE
1	C	1007	PHE
1	C	1021	LEU
1	D	117	PHE
1	D	118	TYR
1	D	152	LEU
1	D	168	GLU
1	D	182	ILE
1	D	217	TYR

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Mol	Chain	Res	Type
1	D	221	LEU
1	D	250	TYR
1	D	264	LEU
1	D	284	LEU
1	D	358	THR
1	D	415	SER
1	D	437	PRO
1	D	487	TYR
1	D	529	TRP
1	D	576	GLU
1	D	585	TYR
1	D	614	LEU
1	D	659	PHE
1	D	663	GLU
1	D	762	LEU
1	D	883	THR
1	D	947	HIS
1	D	970	PHE
1	D	1007	PHE
1	D	1021	LEU
1	E	117	PHE
1	E	118	TYR
1	E	152	LEU
1	E	168	GLU
1	E	182	ILE
1	E	217	TYR
1	E	221	LEU
1	E	250	TYR
1	E	264	LEU
1	E	284	LEU
1	E	358	THR
1	E	415	SER
1	E	437	PRO
1	E	487	TYR
1	E	529	TRP
1	E	576	GLU
1	E	585	TYR
1	E	614	LEU
1	E	659	PHE
1	E	663	GLU
1	E	762	LEU
1	E	883	THR

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Mol	Chain	Res	Type
1	E	947	HIS
1	E	970	PHE
1	E	1007	PHE
1	E	1021	LEU
1	F	117	PHE
1	F	118	TYR
1	F	152	LEU
1	F	168	GLU
1	F	182	ILE
1	F	217	TYR
1	F	221	LEU
1	F	250	TYR
1	F	264	LEU
1	F	284	LEU
1	F	358	THR
1	F	415	SER
1	F	437	PRO
1	F	487	TYR
1	F	529	TRP
1	F	576	GLU
1	F	585	TYR
1	F	614	LEU
1	F	659	PHE
1	F	663	GLU
1	F	762	LEU
1	F	883	THR
1	F	947	HIS
1	F	970	PHE
1	F	1007	PHE
1	F	1021	LEU
1	G	117	PHE
1	G	118	TYR
1	G	152	LEU
1	G	168	GLU
1	G	182	ILE
1	G	217	TYR
1	G	221	LEU
1	G	250	TYR
1	G	264	LEU
1	G	284	LEU
1	G	358	THR
1	G	415	SER

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Mol	Chain	Res	Type
1	G	437	PRO
1	G	487	TYR
1	G	529	TRP
1	G	576	GLU
1	G	585	TYR
1	G	614	LEU
1	G	659	PHE
1	G	663	GLU
1	G	762	LEU
1	G	883	THR
1	G	947	HIS
1	G	970	PHE
1	G	1007	PHE
1	G	1021	LEU
1	H	117	PHE
1	H	118	TYR
1	H	152	LEU
1	H	168	GLU
1	H	182	ILE
1	H	217	TYR
1	H	221	LEU
1	H	250	TYR
1	H	264	LEU
1	H	284	LEU
1	H	358	THR
1	H	415	SER
1	H	437	PRO
1	H	487	TYR
1	H	529	TRP
1	H	576	GLU
1	H	585	TYR
1	H	614	LEU
1	H	659	PHE
1	H	663	GLU
1	H	762	LEU
1	H	883	THR
1	H	947	HIS
1	H	970	PHE
1	H	1007	PHE
1	H	1021	LEU
1	I	117	PHE
1	I	118	TYR

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Mol	Chain	Res	Type
1	I	152	LEU
1	I	168	GLU
1	I	182	ILE
1	I	217	TYR
1	I	221	LEU
1	I	250	TYR
1	I	264	LEU
1	I	284	LEU
1	I	358	THR
1	I	415	SER
1	I	437	PRO
1	I	487	TYR
1	I	529	TRP
1	I	576	GLU
1	I	585	TYR
1	I	614	LEU
1	I	659	PHE
1	I	663	GLU
1	I	762	LEU
1	I	883	THR
1	I	947	HIS
1	I	970	PHE
1	I	1007	PHE
1	I	1021	LEU
1	J	117	PHE
1	J	118	TYR
1	J	152	LEU
1	J	168	GLU
1	J	182	ILE
1	J	217	TYR
1	J	221	LEU
1	J	250	TYR
1	J	264	LEU
1	J	284	LEU
1	J	358	THR
1	J	415	SER
1	J	437	PRO
1	J	487	TYR
1	J	529	TRP
1	J	576	GLU
1	J	585	TYR
1	J	614	LEU

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Mol	Chain	Res	Type
1	J	659	PHE
1	J	663	GLU
1	J	762	LEU
1	J	883	THR
1	J	947	HIS
1	J	970	PHE
1	J	1007	PHE
1	J	1021	LEU

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (47) such sidechains are listed below:

Mol	Chain	Res	Type
1	K	146	HIS
1	K	257	ASN
1	K	433	GLN
1	K	693	HIS
1	A	146	HIS
1	A	257	ASN
1	A	433	GLN
1	A	693	HIS
1	A	869	GLN
1	B	146	HIS
1	B	257	ASN
1	B	433	GLN
1	B	869	GLN
1	C	146	HIS
1	C	257	ASN
1	C	433	GLN
1	D	146	HIS
1	D	257	ASN
1	D	433	GLN
1	D	693	HIS
1	E	146	HIS
1	E	257	ASN
1	E	433	GLN
1	E	693	HIS
1	E	869	GLN
1	F	146	HIS
1	F	257	ASN
1	F	433	GLN
1	F	693	HIS
1	F	869	GLN

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Mol	Chain	Res	Type
1	G	146	HIS
1	G	257	ASN
1	G	433	GLN
1	G	693	HIS
1	H	146	HIS
1	H	257	ASN
1	H	433	GLN
1	H	693	HIS
1	H	869	GLN
1	I	146	HIS
1	I	257	ASN
1	I	433	GLN
1	I	869	GLN
1	J	146	HIS
1	J	257	ASN
1	J	433	GLN
1	J	693	HIS

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

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

11 non-standard protein/DNA/RNA residues are modelled in this entry.

In the following table, the Counts columns list the number of bonds (or angles) for which Mogul statistics could be retrieved, the number of bonds (or angles) that are observed in the model and the number of bonds (or angles) that are defined in the chemical component dictionary. The Link column lists molecule types, if any, to which the group is linked. 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 $|Z| > 2$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\# Z > 2$	Counts	RMSZ	$\# Z > 2$
1	SEP	A	533	1	7,9,10	1.70	1 (14%)	8,12,14	1.16	1 (12%)
1	SEP	B	533	1	7,9,10	1.70	1 (14%)	8,12,14	1.15	1 (12%)
1	SEP	C	533	1	7,9,10	1.70	1 (14%)	8,12,14	1.16	1 (12%)
1	SEP	D	533	1	7,9,10	1.69	1 (14%)	8,12,14	1.15	1 (12%)
1	SEP	E	533	1	7,9,10	1.70	1 (14%)	8,12,14	1.16	1 (12%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
1	SEP	F	533	1	7,9,10	1.70	1 (14%)	8,12,14	1.15	1 (12%)
1	SEP	G	533	1	7,9,10	1.70	1 (14%)	8,12,14	1.15	1 (12%)
1	SEP	H	533	1	7,9,10	1.69	1 (14%)	8,12,14	1.15	1 (12%)
1	SEP	I	533	1	7,9,10	1.70	1 (14%)	8,12,14	1.16	1 (12%)
1	SEP	J	533	1	7,9,10	1.69	1 (14%)	8,12,14	1.16	1 (12%)
1	SEP	K	533	1	7,9,10	1.70	1 (14%)	8,12,14	1.15	1 (12%)

In the following table, the Chirals column lists the number of chiral outliers, the number of chiral centers analysed, the number of these observed in the model and the number defined in the chemical component dictionary. Similar counts are reported in the Torsion and Rings columns. '-' means no outliers of that kind were identified.

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
1	SEP	A	533	1	-	0/5/8/10	0/0/0/0
1	SEP	B	533	1	-	0/5/8/10	0/0/0/0
1	SEP	C	533	1	-	0/5/8/10	0/0/0/0
1	SEP	D	533	1	-	0/5/8/10	0/0/0/0
1	SEP	E	533	1	-	0/5/8/10	0/0/0/0
1	SEP	F	533	1	-	0/5/8/10	0/0/0/0
1	SEP	G	533	1	-	0/5/8/10	0/0/0/0
1	SEP	H	533	1	-	0/5/8/10	0/0/0/0
1	SEP	I	533	1	-	0/5/8/10	0/0/0/0
1	SEP	J	533	1	-	0/5/8/10	0/0/0/0
1	SEP	K	533	1	-	0/5/8/10	0/0/0/0

All (11) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	D	533	SEP	P-O1P	3.35	1.61	1.50
1	J	533	SEP	P-O1P	3.35	1.61	1.50
1	H	533	SEP	P-O1P	3.35	1.61	1.50
1	E	533	SEP	P-O1P	3.36	1.61	1.50
1	I	533	SEP	P-O1P	3.37	1.61	1.50
1	A	533	SEP	P-O1P	3.37	1.61	1.50
1	K	533	SEP	P-O1P	3.37	1.61	1.50
1	B	533	SEP	P-O1P	3.37	1.61	1.50
1	C	533	SEP	P-O1P	3.38	1.61	1.50
1	F	533	SEP	P-O1P	3.38	1.61	1.50
1	G	533	SEP	P-O1P	3.38	1.61	1.50

All (11) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed($^{\circ}$)	Ideal($^{\circ}$)
1	B	533	SEP	O-C-CA	-2.07	120.16	125.72
1	A	533	SEP	O-C-CA	-2.07	120.18	125.72
1	K	533	SEP	O-C-CA	-2.06	120.18	125.72
1	J	533	SEP	O-C-CA	-2.06	120.19	125.72
1	I	533	SEP	O-C-CA	-2.06	120.19	125.72
1	F	533	SEP	O-C-CA	-2.06	120.19	125.72
1	D	533	SEP	O-C-CA	-2.06	120.19	125.72
1	E	533	SEP	O-C-CA	-2.06	120.20	125.72
1	G	533	SEP	O-C-CA	-2.06	120.20	125.72
1	C	533	SEP	O-C-CA	-2.06	120.21	125.72
1	H	533	SEP	O-C-CA	-2.06	120.21	125.72

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

11 monomers are involved in 23 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
1	A	533	SEP	2	0
1	B	533	SEP	2	0
1	C	533	SEP	2	0
1	D	533	SEP	2	0
1	E	533	SEP	2	0
1	F	533	SEP	3	0
1	G	533	SEP	2	0
1	H	533	SEP	2	0
1	I	533	SEP	2	0
1	J	533	SEP	2	0
1	K	533	SEP	2	0

5.5 Carbohydrates [i](#)

There are no carbohydrates in this entry.

5.6 Ligand geometry [i](#)

There are no ligands in this entry.

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.