



Full wwPDB EM Validation Report ⓘ

Mar 9, 2026 – 02:30 PM UTC

PDB ID : 8RRH / pdb_00008rrh
EMDB ID : EMD-19459
Title : The human prohibitin complex
Authors : Lange, F.; Ratz, M.; Dohrke, J.N.; Wenzel, D.; Riedel, D.; Ilgen, P.; Jakobs, S.
Deposited on : 2024-01-22
Resolution : 16.30 Å(reported)
Based on initial model : .

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

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

A user guide is available at

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

The types of validation reports are described at

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

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

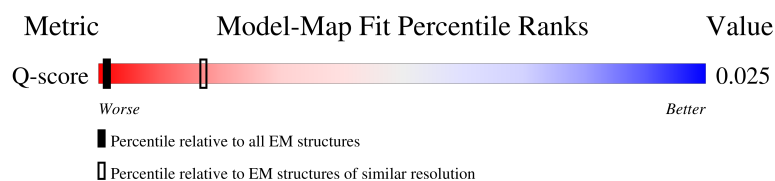
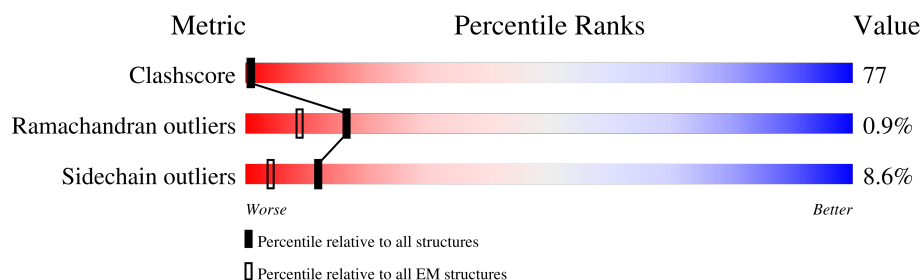
EMDB validation analysis : 0.0.1.dev132
MolProbity : 4-5-2 with Phenix2.0
Percentile statistics : 20250101.v01 (using entries in the PDB archive January 1st 2025)
EM percentile statistics : 202505.v01 (Using data in the EMDB archive up until May 2025)
MapQ : 1.9.13
Ideal geometry (proteins) : Engh &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

1 Overall quality at a glance

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

The reported resolution of this entry is 16.30 Å.

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



Metric	Whole archive (#Entries)	EM structures (#Entries)	Similar EM resolution (#Entries, resolution range(Å))
Clashscore	229148	23984	-
Ramachandran outliers	224038	23583	-
Sidechain outliers	223484	23102	-
Q-score	-	25397	35 (15.90 - 16.80)

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

Mol	Chain	Length	Quality of chain
1	A	272	16% 35% 56% 8%
1	C	272	18% 42% 49% 8%
1	E	272	14% 35% 55% 10%
1	G	272	18% 38% 50% 12%

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Mol	Chain	Length	Quality of chain
1	I	272	
1	K	272	
2	B	299	
2	D	299	
2	F	299	
2	H	299	
2	J	299	

2 Entry composition

There are 2 unique types of molecules in this entry. The entry contains 24343 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 Prohibitin 1.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	A	272	Total	C	N	O	S	0	0
			2103	1331	370	400	2		
1	C	272	Total	C	N	O	S	0	0
			2103	1331	370	400	2		
1	E	272	Total	C	N	O	S	0	0
			2103	1331	370	400	2		
1	G	272	Total	C	N	O	S	0	0
			2103	1331	370	400	2		
1	I	272	Total	C	N	O	S	0	0
			2103	1331	370	400	2		
1	K	272	Total	C	N	O	S	0	0
			2103	1331	370	400	2		

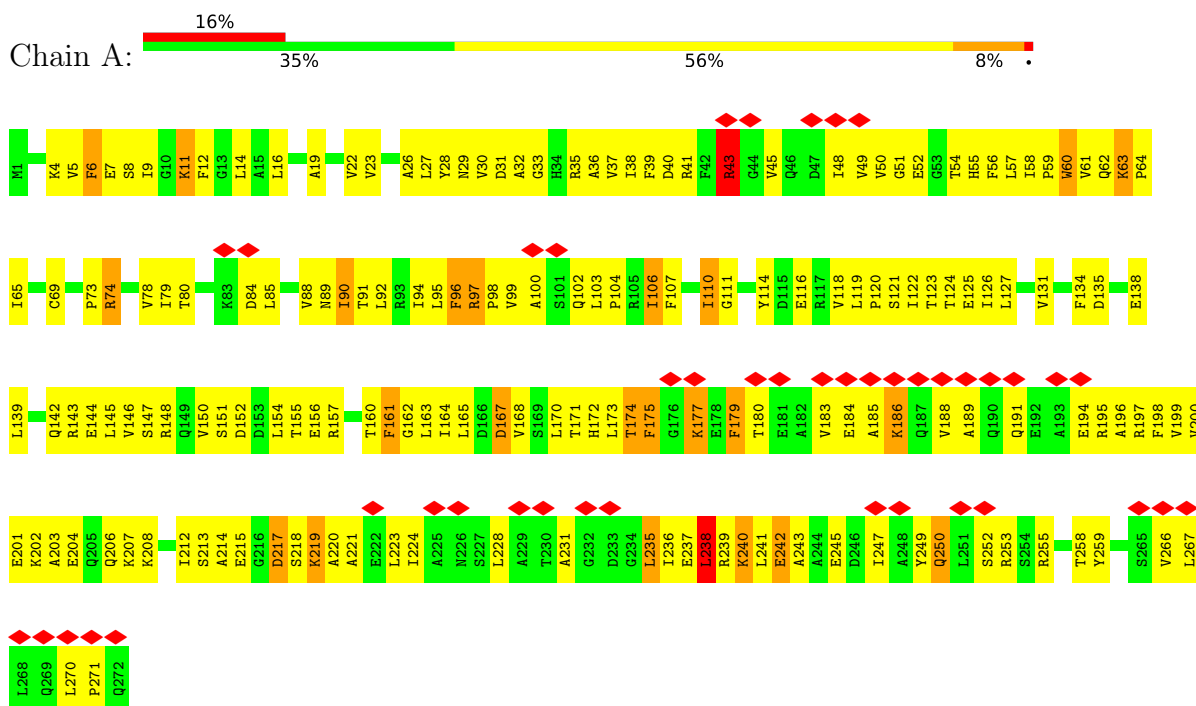
- Molecule 2 is a protein called Prohibitin-2.

Mol	Chain	Residues	Atoms					AltConf	Trace
2	B	299	Total	C	N	O	S	0	0
			2345	1477	428	435	5		
2	D	299	Total	C	N	O	S	0	0
			2345	1477	428	435	5		
2	F	299	Total	C	N	O	S	0	0
			2345	1477	428	435	5		
2	H	299	Total	C	N	O	S	0	0
			2345	1477	428	435	5		
2	J	299	Total	C	N	O	S	0	0
			2345	1477	428	435	5		

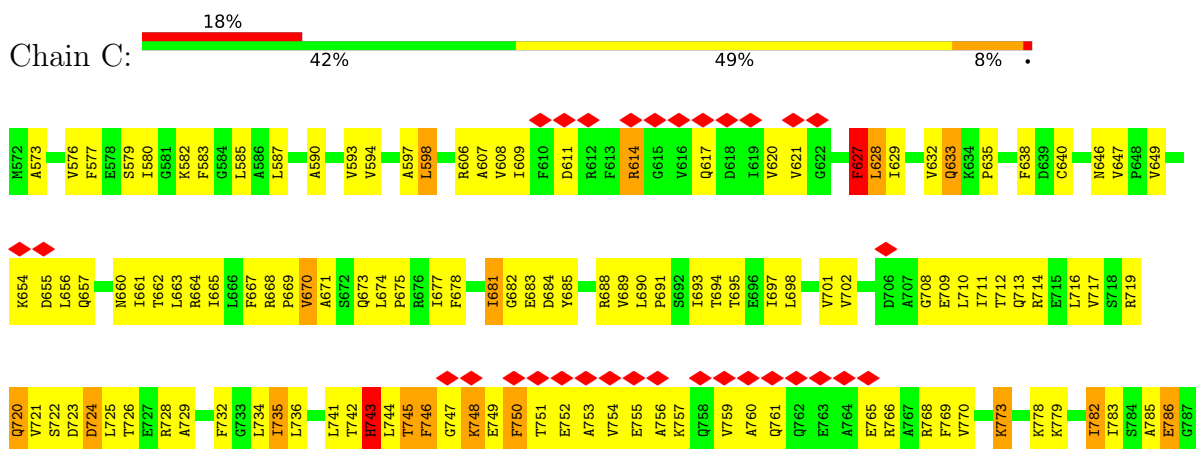
3 Residue-property plots

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

• Molecule 1: Prohibitin 1

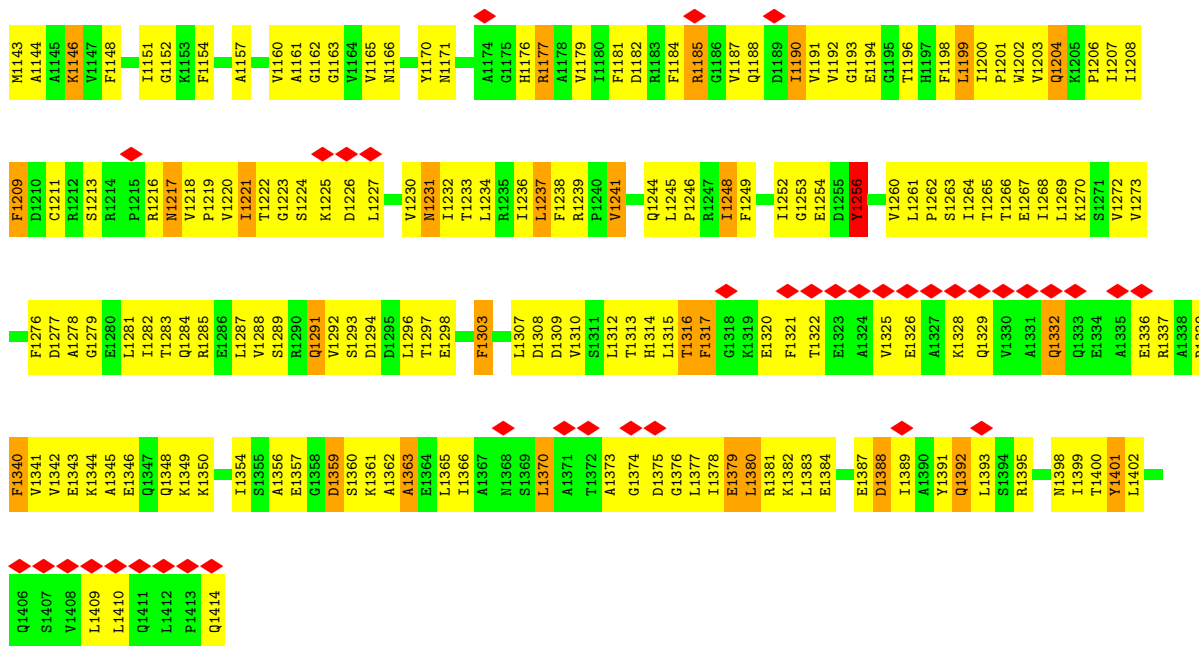
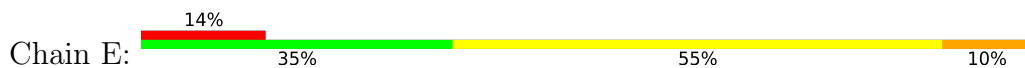


• Molecule 1: Prohibitin 1

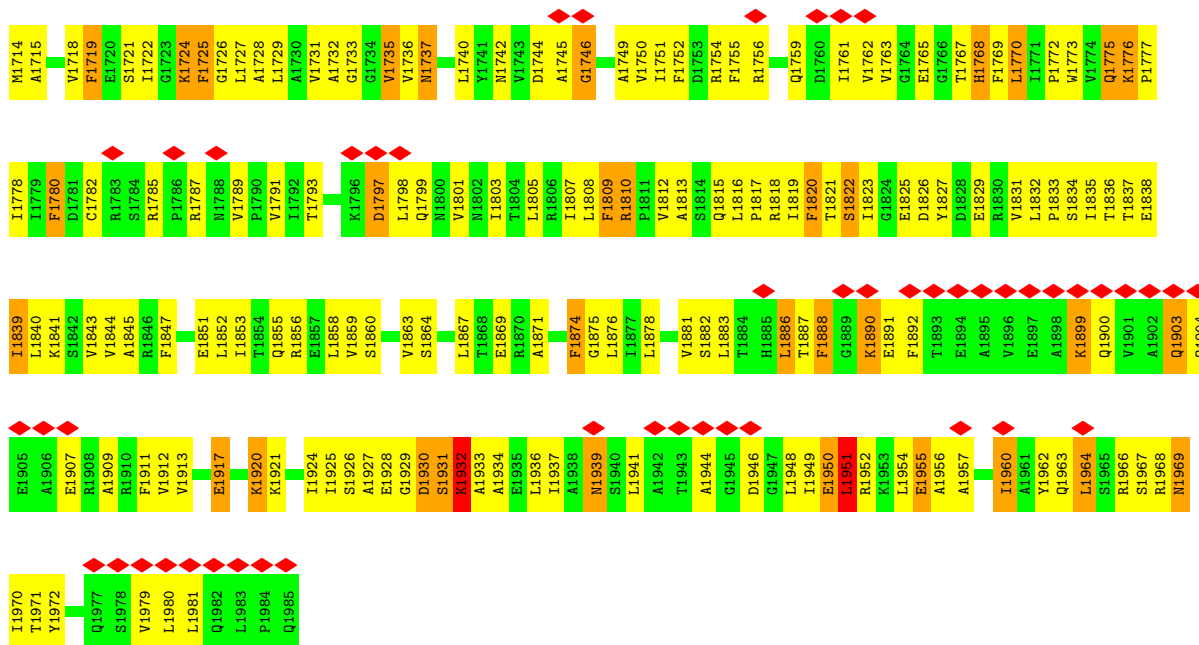




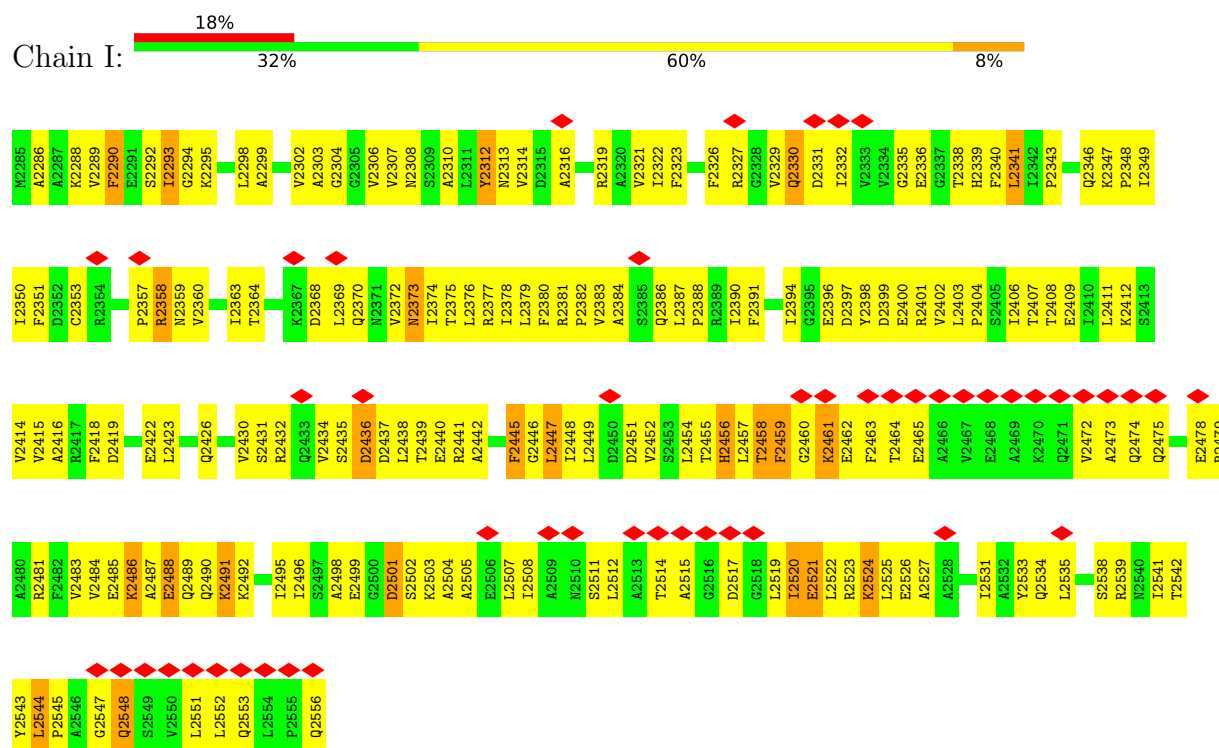
• Molecule 1: Prohibitin 1



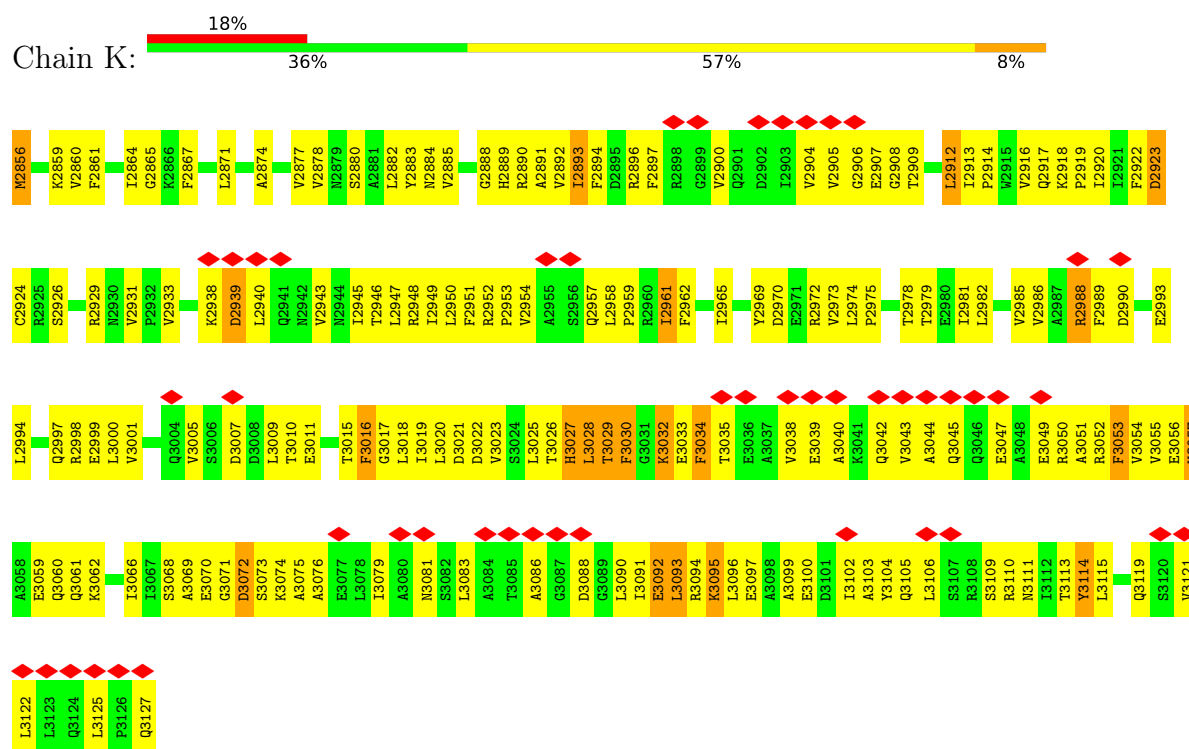
• Molecule 1: Prohibitin 1



- Molecule 1: Prohibitin 1

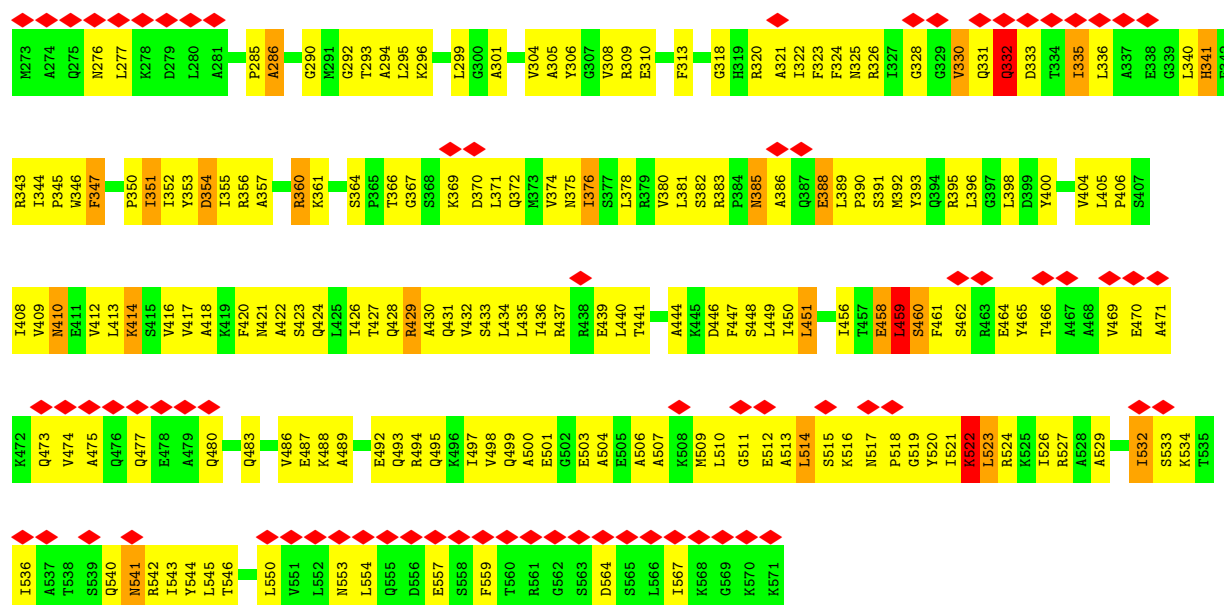


- Molecule 1: Prohibitin 1



- Molecule 2: Prohibitin-2



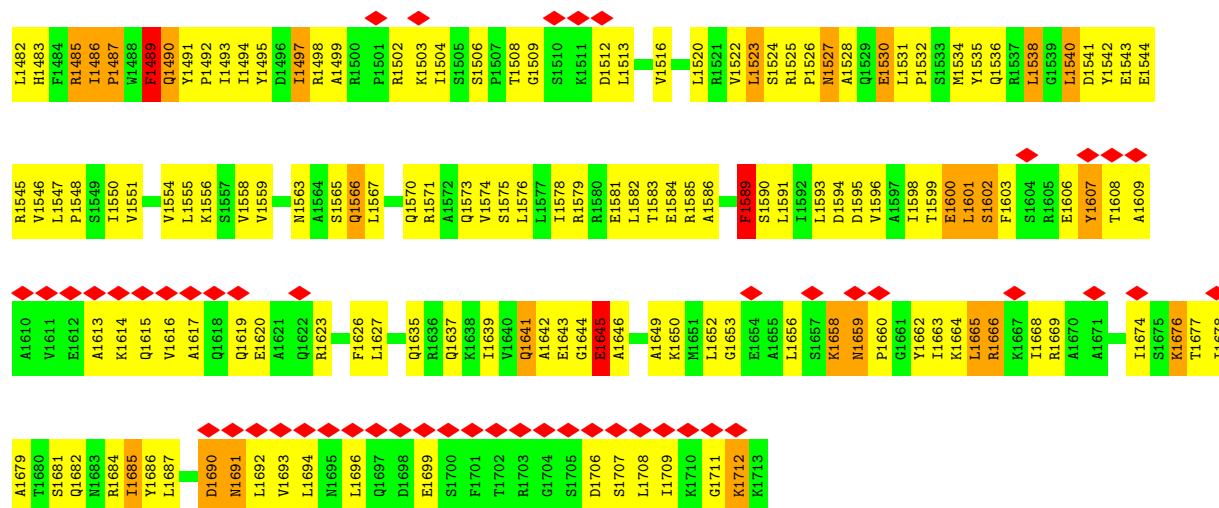


• Molecule 2: Prohibitin-2

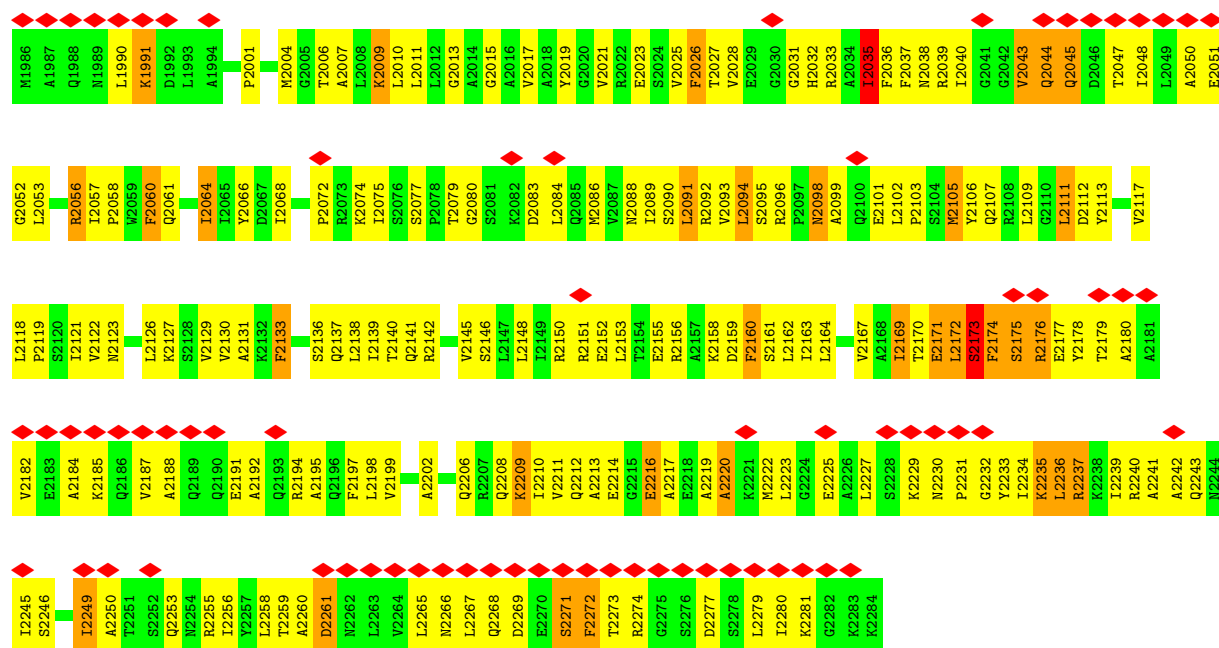


• Molecule 2: Prohibitin-2

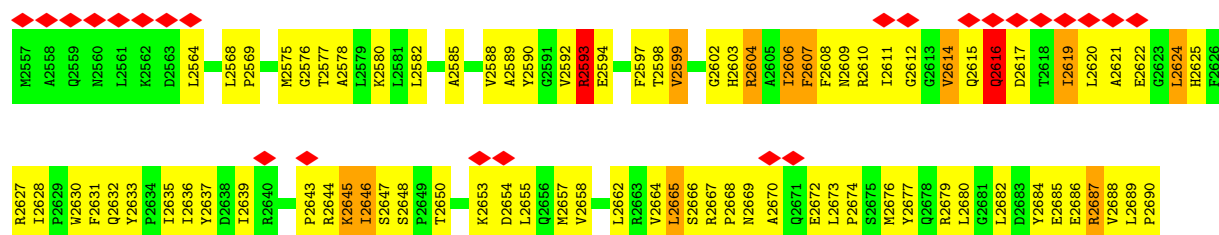


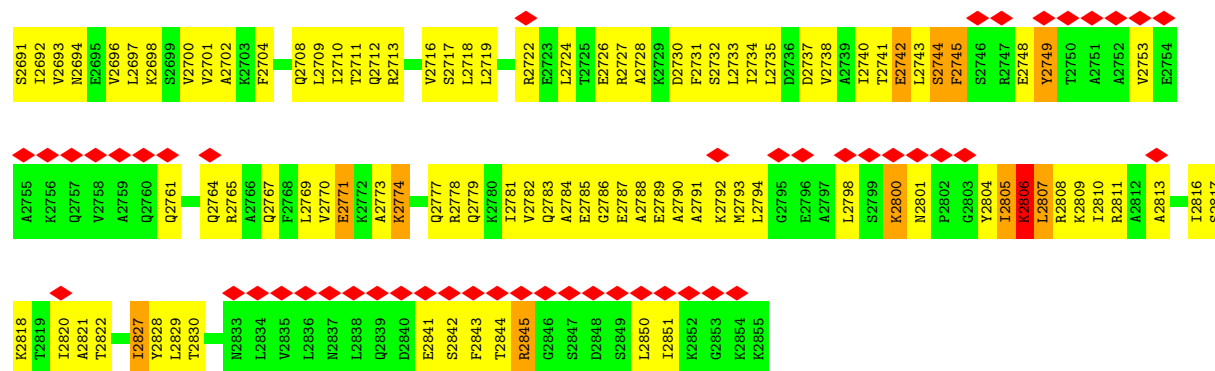


• Molecule 2: Prohibitin-2



• Molecule 2: Prohibitin-2





4 Experimental information

Property	Value	Source
EM reconstruction method	SUBTOMOGRAM AVERAGING	Depositor
Imposed symmetry	POINT, C11	Depositor
Number of subtomograms used	817	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING AND AMPLITUDE CORRECTION	Depositor
Microscope	FEI TITAN KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/\text{\AA}^2$)	120	Depositor
Minimum defocus (nm)	2500	Depositor
Maximum defocus (nm)	4000	Depositor
Magnification	42000	Depositor
Image detector	GATAN K3 BIOQUANTUM (6k x 4k)	Depositor
Maximum map value	0.437	Depositor
Minimum map value	-0.322	Depositor
Average map value	0.016	Depositor
Map value standard deviation	0.090	Depositor
Recommended contour level	0.075	Depositor
Map size (Å)	300.0, 300.0, 300.0	wwPDB
Map dimensions	120, 120, 120	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	2.5, 2.5, 2.5	Depositor

5 Model quality

5.1 Standard geometry

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
1	A	1.43	0/2133	1.56	20/2887 (0.7%)
1	C	1.45	0/2133	1.62	19/2887 (0.7%)
1	E	1.42	0/2133	1.57	18/2887 (0.6%)
1	G	1.45	2/2133 (0.1%)	2.32	36/2887 (1.2%)
1	I	1.42	0/2133	1.50	10/2887 (0.3%)
1	K	1.42	0/2133	1.54	17/2887 (0.6%)
2	B	1.41	0/2376	1.54	25/3198 (0.8%)
2	D	1.42	0/2376	1.52	15/3198 (0.5%)
2	F	1.42	0/2376	1.56	23/3198 (0.7%)
2	H	1.43	2/2376 (0.1%)	1.55	26/3198 (0.8%)
2	J	1.41	0/2376	1.53	17/3198 (0.5%)
All	All	1.42	4/24678 (0.0%)	1.63	226/33312 (0.7%)

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	I	0	1
1	K	0	1
2	D	0	1
2	J	0	1
All	All	0	6

All (4) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	G	1931	SER	CA-C	-8.76	1.41	1.52
2	H	2274	ARG	CA-C	-8.04	1.49	1.53
2	H	2269	ASP	CA-C	-7.61	1.49	1.53
1	G	1932	LYS	N-CA	-5.04	1.40	1.46

All (226) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	G	1874	PHE	CZ-CE2-CD2	-51.96	26.47	120.00
1	G	1874	PHE	CG-CD2-CE2	-40.20	52.35	120.70
1	G	1874	PHE	CE1-CZ-CE2	-38.42	50.84	120.00
1	G	1874	PHE	CD1-CG-CD2	-30.27	73.20	118.60
1	G	1874	PHE	CD1-CE1-CZ	-26.14	72.95	120.00
1	G	1874	PHE	CG-CD1-CE1	-21.48	84.18	120.70
1	G	1874	PHE	CB-CG-CD2	18.08	151.43	120.70
1	K	3016	PHE	CA-CB-CG	-10.90	102.90	113.80
2	F	1589	PHE	CA-CB-CG	-10.89	102.91	113.80
1	C	732	PHE	CA-CB-CG	-10.43	103.37	113.80
2	D	918	PHE	CA-CB-CG	-9.72	104.08	113.80
1	E	1340	PHE	CA-CB-CG	-9.72	104.08	113.80
2	D	1018	PHE	CA-CB-CG	-9.57	104.23	113.80
1	E	1154	PHE	CA-CB-CG	-9.36	104.44	113.80
1	A	6	PHE	CA-CB-CG	-9.24	104.56	113.80
2	H	2160	PHE	CA-CB-CG	-9.23	104.57	113.80
1	A	161	PHE	CA-CB-CG	-9.21	104.59	113.80
1	G	1874	PHE	CA-CB-CG	-8.85	104.95	113.80
1	G	1874	PHE	CB-CG-CD1	8.62	135.35	120.70
1	K	3034	PHE	CA-CB-CG	-8.60	105.20	113.80
1	E	1209	PHE	CA-CB-CG	-8.52	105.28	113.80
1	G	1931	SER	N-CA-CB	8.51	122.41	110.07
1	C	750	PHE	CB-CA-C	-8.50	97.87	110.96
2	J	2805	ILE	CB-CA-C	-8.38	101.04	112.02
1	G	1719	PHE	CA-CB-CG	-8.33	105.47	113.80
1	A	134	PHE	CA-CB-CG	-8.20	105.60	113.80
2	H	2060	PHE	CA-CB-CG	-8.00	105.80	113.80
2	D	1032	PHE	CA-CB-CG	-7.94	105.86	113.80
1	C	745	THR	CA-C-N	7.89	135.90	121.70
1	C	745	THR	C-N-CA	7.89	135.90	121.70
1	A	175	PHE	CA-CB-CG	-7.83	105.97	113.80
2	B	322	ILE	CA-C-N	7.71	133.48	121.99
2	B	322	ILE	C-N-CA	7.71	133.48	121.99
1	G	1888	PHE	N-CA-C	-7.59	105.97	114.62
2	H	2133	PHE	CA-CB-CG	-7.53	106.27	113.80
2	F	1489	PHE	CA-CB-CG	-7.45	106.35	113.80
1	A	217	ASP	CA-CB-CG	-7.43	105.17	112.60
2	F	1607	TYR	CB-CA-C	-7.34	95.81	110.42
1	K	2893	ILE	CA-C-N	-7.32	112.67	122.99
1	K	2893	ILE	C-N-CA	-7.32	112.67	122.99
1	I	2501	ASP	CA-CB-CG	-7.32	105.28	112.60
1	C	746	PHE	CA-C-N	7.26	127.98	120.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	746	PHE	C-N-CA	7.26	127.98	120.00
2	F	1487	PRO	CA-C-N	-7.19	110.95	122.24
2	F	1487	PRO	C-N-CA	-7.19	110.95	122.24
1	E	1363	ALA	CB-CA-C	-7.17	99.62	110.88
2	F	1474	GLN	N-CA-C	-7.00	103.66	111.71
1	G	1932	LYS	N-CA-C	-6.97	103.76	111.36
2	H	2043	VAL	CA-C-N	-6.95	110.91	122.17
2	H	2043	VAL	C-N-CA	-6.95	110.91	122.17
2	H	2045	GLN	N-CA-C	-6.92	103.75	111.71
1	A	38	ILE	CA-C-N	-6.89	112.61	122.94
1	A	38	ILE	C-N-CA	-6.89	112.61	122.94
1	K	3072	ASP	CA-CB-CG	-6.84	105.76	112.60
2	H	2026	PHE	CA-CB-CG	-6.77	107.03	113.80
1	E	1303	PHE	CA-CB-CG	-6.77	107.03	113.80
1	G	1931	SER	CB-CA-C	-6.73	100.27	110.90
1	I	2290	PHE	CA-CB-CG	-6.72	107.08	113.80
1	C	748	LYS	N-CA-C	-6.70	103.97	111.28
2	H	2159	ASP	CA-CB-CG	-6.66	105.94	112.60
2	B	420	PHE	CA-CB-CG	-6.63	107.17	113.80
1	C	788	ASP	CA-CB-CG	-6.61	105.99	112.60
2	D	1078	ALA	CB-CA-C	-6.59	100.53	110.88
1	E	1359	ASP	CA-CB-CG	-6.58	106.02	112.60
2	H	2197	PHE	CA-CB-CG	-6.56	107.24	113.80
2	D	894	PHE	CA-C-N	-6.56	112.10	122.73
2	D	894	PHE	C-N-CA	-6.56	112.10	122.73
2	H	2220	ALA	CB-CA-C	-6.54	100.61	110.88
2	D	915	ILE	CA-C-O	6.53	123.97	119.20
1	K	2897	PHE	CA-CB-CG	-6.53	107.27	113.80
2	B	522	LYS	CA-C-N	-6.51	109.75	121.14
2	B	522	LYS	C-N-CA	-6.51	109.75	121.14
1	I	2521	GLU	CA-C-N	-6.48	109.81	121.14
1	I	2521	GLU	C-N-CA	-6.48	109.81	121.14
1	C	808	GLU	CA-C-N	-6.41	109.08	121.58
1	C	808	GLU	C-N-CA	-6.41	109.08	121.58
1	G	1826	ASP	CA-C-N	6.40	129.18	120.54
1	G	1826	ASP	C-N-CA	6.40	129.18	120.54
2	B	446	ASP	CA-CB-CG	-6.37	106.23	112.60
2	J	2744	SER	CA-C-N	6.36	133.51	122.32
2	J	2744	SER	C-N-CA	6.36	133.51	122.32
1	K	3092	GLU	CA-C-N	-6.34	110.05	121.14
1	K	3092	GLU	C-N-CA	-6.34	110.05	121.14
2	D	903	GLN	N-CA-C	-6.34	104.42	111.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	J	2607	PHE	CA-C-N	-6.34	114.05	122.99
2	J	2607	PHE	C-N-CA	-6.34	114.05	122.99
2	H	2274	ARG	CB-CA-C	-6.33	107.95	117.07
1	G	1820	PHE	N-CA-CB	6.30	120.85	110.39
2	D	914	ARG	CA-C-N	-6.30	116.47	123.02
2	D	914	ARG	C-N-CA	-6.30	116.47	123.02
1	A	237	GLU	CA-C-N	-6.29	110.13	121.14
1	A	237	GLU	C-N-CA	-6.29	110.13	121.14
2	F	1666	ARG	N-CA-C	-6.28	104.51	111.36
1	C	809	LEU	N-CA-CB	6.24	120.90	110.41
2	F	1645	GLU	N-CA-C	-6.24	104.39	111.07
1	C	724	ASP	CA-CB-CG	-6.19	106.41	112.60
1	E	1317	PHE	CA-CB-CG	-6.17	107.63	113.80
2	B	354	ASP	CA-CB-CG	-6.15	106.45	112.60
2	B	353	TYR	CA-CB-CG	-6.14	102.85	113.90
1	A	96	PHE	CA-CB-CG	-6.10	107.70	113.80
1	G	1930	ASP	CA-CB-CG	-6.09	106.51	112.60
1	E	1256	TYR	N-CA-CB	6.07	119.17	110.06
1	E	1379	GLU	CA-C-N	-6.01	110.61	121.14
1	E	1379	GLU	C-N-CA	-6.01	110.61	121.14
1	E	1256	TYR	CB-CA-C	-6.01	100.47	110.68
2	B	460	SER	CA-C-N	5.97	131.88	122.21
2	B	460	SER	C-N-CA	5.97	131.88	122.21
1	C	746	PHE	CA-CB-CG	-5.93	107.87	113.80
1	C	627	PHE	CA-CB-CG	-5.91	107.89	113.80
1	G	1950	GLU	CA-C-N	-5.91	110.80	121.14
1	G	1950	GLU	C-N-CA	-5.91	110.80	121.14
1	I	2312	TYR	N-CA-CB	5.88	120.85	111.56
2	H	2235	LYS	CA-C-N	-5.87	110.86	121.14
2	H	2235	LYS	C-N-CA	-5.87	110.86	121.14
1	G	1911	PHE	CA-CB-CG	-5.87	107.93	113.80
2	F	1487	PRO	N-CA-C	5.85	121.66	113.53
2	B	313	PHE	CA-CB-CG	-5.84	107.96	113.80
2	J	2806	LYS	CA-C-N	-5.83	110.94	121.14
2	J	2806	LYS	C-N-CA	-5.83	110.94	121.14
1	K	3053	PHE	CA-CB-CG	-5.83	107.97	113.80
2	B	347	PHE	CA-CB-CG	-5.82	107.98	113.80
2	J	2607	PHE	CB-CA-C	-5.81	100.27	109.80
2	H	2274	ARG	N-CA-C	-5.76	104.06	108.78
2	B	323	PHE	CA-CB-CG	5.75	119.55	113.80
1	E	1231	ASN	CA-CB-CG	-5.74	106.86	112.60
1	G	1888	PHE	CA-CB-CG	-5.74	108.06	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	G	1939	ASN	CA-CB-CG	-5.73	106.87	112.60
1	K	2961	ILE	CA-C-N	5.69	128.70	120.79
1	K	2961	ILE	C-N-CA	5.69	128.70	120.79
2	B	519	GLY	CA-C-N	5.68	127.83	120.44
2	B	519	GLY	C-N-CA	5.68	127.83	120.44
1	C	786	GLU	CB-CA-C	-5.68	101.37	110.79
2	D	1093	LYS	CA-C-N	-5.67	110.53	121.58
2	D	1093	LYS	C-N-CA	-5.67	110.53	121.58
2	J	2609	ASN	CA-CB-CG	-5.65	106.95	112.60
2	J	2745	PHE	CA-CB-CG	-5.65	108.15	113.80
2	H	2173	SER	CA-C-N	5.64	131.07	122.11
2	H	2173	SER	C-N-CA	5.64	131.07	122.11
2	B	459	LEU	CA-C-N	-5.61	112.46	122.45
2	B	459	LEU	C-N-CA	-5.61	112.46	122.45
2	H	2269	ASP	CA-CB-CG	-5.59	107.01	112.60
1	I	2520	ILE	CB-CA-C	-5.55	104.87	111.97
2	B	564	ASP	CA-CB-CG	-5.51	107.09	112.60
2	F	1690	ASP	CA-CB-CG	-5.51	107.09	112.60
2	H	2277	ASP	CA-CB-CG	-5.51	107.09	112.60
1	A	29	ASN	CA-CB-CG	-5.51	107.09	112.60
2	H	2236	LEU	N-CA-CB	5.49	119.35	110.40
1	G	1809	PHE	CA-CB-CG	-5.48	108.32	113.80
2	B	523	LEU	N-CA-CB	5.48	119.33	110.40
2	H	2035	ILE	CA-C-N	-5.47	114.49	122.65
2	H	2035	ILE	C-N-CA	-5.47	114.49	122.65
1	I	2533	TYR	CB-CA-C	-5.47	102.29	110.88
1	A	167	ASP	CA-CB-CG	-5.46	107.14	112.60
1	G	1826	ASP	CA-CB-CG	-5.45	107.15	112.60
2	F	1448	TYR	CB-CA-C	-5.45	101.75	110.79
2	F	1527	ASN	CA-CB-CG	-5.45	107.15	112.60
2	F	1601	LEU	CA-C-N	-5.43	113.09	122.10
2	F	1601	LEU	C-N-CA	-5.43	113.09	122.10
2	H	2044	GLN	N-CA-CB	5.43	118.11	110.24
1	G	1797	ASP	CA-CB-CG	-5.39	107.21	112.60
1	K	3030	PHE	CA-CB-CG	-5.37	108.43	113.80
2	B	330	VAL	CA-C-N	-5.37	113.48	122.17
2	B	330	VAL	C-N-CA	-5.37	113.48	122.17
2	D	1119	ASP	CA-CB-CG	-5.36	107.24	112.60
1	C	827	ASN	CA-CB-CG	-5.35	107.25	112.60
2	F	1658	LYS	CA-C-N	5.35	134.85	121.80
2	F	1658	LYS	C-N-CA	5.35	134.85	121.80
1	I	2399	ASP	CA-CB-CG	-5.33	107.27	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	31	ASP	CA-CB-CG	-5.33	107.27	112.60
1	G	1755	PHE	CA-CB-CG	-5.32	108.48	113.80
1	I	2445	PHE	CA-CB-CG	-5.29	108.51	113.80
1	C	782	ILE	CB-CA-C	-5.28	105.21	111.97
2	H	2098	ASN	CA-CB-CG	-5.28	107.32	112.60
2	F	1466	PHE	CA-CB-CG	-5.28	108.52	113.80
2	J	2599	VAL	CA-C-N	-5.26	113.42	123.32
2	J	2599	VAL	C-N-CA	-5.26	113.42	123.32
2	F	1602	SER	CA-C-N	5.26	131.59	121.54
2	F	1602	SER	C-N-CA	5.26	131.59	121.54
1	G	1969	ASN	CA-CB-CG	-5.26	107.34	112.60
1	A	179	PHE	CA-CB-CG	-5.25	108.55	113.80
2	B	375	ASN	CA-CB-CG	-5.25	107.35	112.60
2	B	332	GLN	N-CA-C	-5.25	106.71	113.01
1	A	198	PHE	CA-CB-CG	-5.23	108.57	113.80
2	F	1691	ASN	CA-CB-CG	-5.22	107.38	112.60
2	F	1645	GLU	CA-C-N	5.21	127.58	120.54
2	F	1645	GLU	C-N-CA	5.21	127.58	120.54
1	K	2939	ASP	CA-CB-CG	-5.21	107.39	112.60
2	D	858	GLY	N-CA-C	-5.21	105.93	112.23
1	C	646	ASN	CA-CB-CG	-5.20	107.40	112.60
1	E	1309	ASP	CA-CB-CG	-5.20	107.40	112.60
1	G	1951	LEU	N-CA-CB	5.18	118.84	110.40
1	K	2923	ASP	CA-CB-CG	-5.16	107.44	112.60
1	G	1955	GLU	CB-CA-C	-5.15	102.79	110.88
2	H	2112	ASP	CA-CB-CG	-5.14	107.46	112.60
1	E	1308	ASP	CA-CB-CG	-5.13	107.47	112.60
1	G	1746	GLY	N-CA-C	-5.13	108.55	115.21
1	K	2912	LEU	CA-C-N	-5.12	118.33	123.04
1	K	2912	LEU	C-N-CA	-5.12	118.33	123.04
1	G	1780	PHE	CA-CB-CG	-5.11	108.69	113.80
1	I	2436	ASP	CA-CB-CG	-5.11	107.49	112.60
1	G	1931	SER	O-C-N	5.10	127.60	122.09
1	C	743	HIS	CA-CB-CG	5.09	118.89	113.80
1	A	33	GLY	N-CA-C	-5.09	108.59	115.36
1	E	1316	THR	CA-C-N	5.09	130.93	121.62
1	E	1316	THR	C-N-CA	5.09	130.93	121.62
2	D	884	PHE	CA-CB-CG	-5.09	108.71	113.80
1	E	1392	GLN	CB-CA-C	-5.08	102.91	110.88
1	A	242	GLU	CB-CA-C	-5.07	102.92	110.88
2	H	2269	ASP	CB-CA-C	-5.07	109.08	116.53
2	J	2730	ASP	CA-CB-CG	-5.07	107.53	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	K	3081	ASN	CA-CB-CG	-5.05	107.55	112.60
1	A	238	LEU	N-CA-CB	5.05	118.63	110.40
2	J	2614	VAL	CA-C-N	-5.05	114.00	122.17
2	J	2614	VAL	C-N-CA	-5.05	114.00	122.17
1	A	175	PHE	CA-C-N	5.04	125.53	119.94
1	A	175	PHE	C-N-CA	5.04	125.53	119.94
1	G	1768	HIS	CA-C-N	-5.04	114.90	122.81
1	G	1768	HIS	C-N-CA	-5.04	114.90	122.81
2	J	2616	GLN	N-CA-C	-5.04	106.24	112.38
2	J	2845	ARG	N-CA-C	-5.03	106.72	112.86
2	H	2174	PHE	CA-CB-CG	-5.03	108.77	113.80
2	B	559	PHE	CA-CB-CG	-5.03	108.78	113.80
2	B	541	ASN	CA-CB-CG	-5.02	107.58	112.60
2	F	1460	GLY	N-CA-C	-5.01	108.40	115.32
1	G	1744	ASP	CA-CB-CG	-5.01	107.59	112.60
1	E	1388	ASP	CA-CB-CG	-5.00	107.59	112.60

There are no chirality outliers.

All (6) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	174	THR	Peptide
1	A	43	ARG	Sidechain
2	D	914	ARG	Sidechain
1	I	2458	THR	Peptide
2	J	2593	ARG	Sidechain
1	K	3029	THR	Peptide

5.2 Too-close contacts [i](#)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	2103	0	2150	389	0
1	C	2103	0	2147	360	0
1	E	2103	0	2147	374	0
1	G	2103	0	2147	399	0
1	I	2103	0	2147	421	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	K	2103	0	2147	414	0
2	B	2345	0	2431	349	0
2	D	2345	0	2431	388	0
2	F	2345	0	2431	440	0
2	H	2345	0	2431	418	0
2	J	2345	0	2431	410	0
All	All	24343	0	25040	3826	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 77.

All (3826) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1233:THR:HG23	1:E:1313:THR:HG23	1.20	1.18
1:A:235:LEU:HA	2:B:504:ALA:HB1	1.21	1.18
1:A:218:SER:HB2	1:K:3090:LEU:HA	1.18	1.14
1:A:91:THR:HG23	1:A:171:THR:HG23	1.17	1.14
2:F:1665:LEU:CB	1:G:1931:SER:HA	1.77	1.14
1:C:649:VAL:HG11	1:C:698:LEU:HD23	1.30	1.14
2:J:2798:LEU:HD21	2:J:2805:ILE:HG12	1.26	1.13
2:F:1456:THR:HG22	2:F:1482:LEU:HD22	1.29	1.13
1:G:1941:LEU:HD11	1:G:1949:ILE:HA	1.30	1.13
1:G:1951:LEU:HD22	1:G:1954:LEU:HB2	1.21	1.13
1:E:1245:LEU:HA	1:E:1248:ILE:HD11	1.29	1.13
1:E:1377:LEU:HA	2:F:1646:ALA:HB1	1.21	1.13
1:I:2512:LEU:HD12	1:I:2519:LEU:HD12	1.16	1.13
2:D:888:GLY:HA2	2:D:909:GLU:HG2	1.31	1.12
1:A:235:LEU:HD21	2:B:501:GLU:HA	1.21	1.12
1:E:1252:ILE:HG21	1:E:1256:TYR:HA	1.16	1.12
1:I:2526:GLU:HB2	2:J:2787:GLU:HG3	1.29	1.12
1:E:1213:SER:HB2	1:E:1237:LEU:HD21	1.30	1.11
1:C:662:THR:HG23	1:C:742:THR:HG23	1.33	1.10
1:K:3083:LEU:HD23	1:K:3090:LEU:HD23	1.34	1.10
2:F:1582:LEU:HD13	2:F:1593:LEU:HD22	1.24	1.09
1:G:1941:LEU:HD12	1:G:1948:LEU:HD23	1.25	1.09
1:K:3093:LEU:HD23	1:K:3096:LEU:HB3	1.34	1.09
2:F:1665:LEU:HB2	1:G:1931:SER:HA	1.24	1.09
2:H:2233:TYR:HA	1:I:2502:SER:HB2	1.31	1.09
2:J:2680:LEU:HD23	2:J:2684:TYR:HA	1.18	1.09
2:J:2666:SER:HB2	2:J:2733:LEU:HD11	1.13	1.08

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:809:LEU:HG	2:D:1078:ALA:HB2	1.22	1.08
2:J:2807:LEU:HD21	2:J:2810:ILE:HD12	1.27	1.08
2:B:510:LEU:HD23	1:C:782:ILE:HD13	1.17	1.08
2:H:2095:SER:HB3	2:H:2162:LEU:HD21	1.35	1.08
1:G:1948:LEU:HA	2:H:2217:ALA:HB1	1.09	1.07
1:G:1951:LEU:HG	2:H:2220:ALA:HB2	1.11	1.07
1:I:2522:LEU:HB2	2:J:2791:ALA:HB2	1.28	1.07
2:D:1091:TYR:HA	1:E:1360:SER:HB2	1.14	1.06
2:F:1662:TYR:HA	1:G:1931:SER:HB3	1.31	1.06
1:K:2973:VAL:HG23	1:K:2974:LEU:HD22	1.36	1.06
1:I:2512:LEU:HD11	1:I:2520:ILE:HA	1.34	1.06
1:K:3030:PHE:HB2	1:K:3033:GLU:HB3	1.36	1.06
2:J:2807:LEU:HD13	2:J:2810:ILE:HB	1.38	1.06
1:C:806:LEU:HA	2:D:1075:ALA:HB1	1.06	1.05
2:J:2804:TYR:HA	1:K:3073:SER:HB2	1.33	1.05
1:C:685:TYR:HE1	1:C:734:LEU:HD11	1.20	1.04
1:A:242:GLU:HB2	2:B:503:GLU:HG3	1.08	1.04
1:I:2519:LEU:HA	2:J:2788:ALA:HB1	1.09	1.04
1:G:1948:LEU:HD11	2:H:2214:GLU:HA	1.40	1.04
2:B:320:ARG:HD2	2:B:355:ILE:HD11	1.37	1.03
2:J:2808:ARG:HG2	1:K:3069:ALA:HB1	1.40	1.03
2:D:1015:ALA:HB1	2:D:1020:LEU:HD12	1.38	1.03
2:D:1091:TYR:CA	1:E:1360:SER:HB2	1.88	1.03
1:C:813:GLU:HB3	2:D:1074:GLU:HG3	1.40	1.03
1:I:2458:THR:HG21	1:I:2463:PHE:HD2	1.20	1.03
1:G:1812:VAL:HG13	1:G:1815:GLN:HB2	1.40	1.02
1:A:218:SER:HB2	1:K:3090:LEU:CA	1.87	1.02
1:I:2522:LEU:CD1	1:I:2525:LEU:HB3	1.89	1.02
1:A:74:ARG:HB2	1:A:96:PHE:HE2	1.24	1.02
2:J:2597:PHE:CE2	2:J:2627:ARG:HB2	1.95	1.02
2:H:2089:ILE:HD12	2:H:2172:LEU:HG	1.41	1.02
1:G:1955:GLU:HG2	2:H:2216:GLU:HB2	1.40	1.01
2:J:2606:ILE:HG22	2:J:2635:ILE:HG22	1.40	1.01
2:J:2793:MET:HG3	1:K:3066:ILE:HD11	1.43	1.01
1:I:2522:LEU:HG	2:J:2787:GLU:HB3	1.42	1.00
1:C:609:ILE:HD11	1:C:633:GLN:HG3	1.39	1.00
1:A:207:LYS:HD2	1:K:3075:ALA:HB2	1.41	0.99
2:F:1652:LEU:HD21	2:F:1666:ARG:HD2	1.43	0.99
2:D:1094:LEU:HD13	2:D:1097:ILE:HB	1.41	0.99
1:A:218:SER:CB	1:K:3090:LEU:HA	1.93	0.99
1:G:1951:LEU:HD21	1:G:1954:LEU:HD12	1.41	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:235:LEU:HD23	2:B:504:ALA:CB	1.92	0.99
1:C:809:LEU:CG	2:D:1078:ALA:HB2	1.91	0.99
2:D:1091:TYR:HA	1:E:1360:SER:CB	1.91	0.99
2:H:2111:LEU:HD23	2:H:2111:LEU:H	1.28	0.99
1:A:231:ALA:HB3	1:A:235:LEU:HD12	1.40	0.99
1:I:2526:GLU:CB	2:J:2787:GLU:HG3	1.92	0.99
2:B:385:ASN:HD21	2:B:448:SER:HB3	1.26	0.98
2:H:2236:LEU:HD11	2:H:2239:ILE:HD12	1.45	0.98
2:F:1462:ARG:HD3	2:F:1477:ILE:HG21	1.40	0.98
2:F:1504:ILE:HG21	2:F:1551:VAL:HG11	1.45	0.98
1:G:1951:LEU:CG	2:H:2220:ALA:HB2	1.92	0.98
2:B:382:SER:HB3	2:B:449:LEU:HD21	1.44	0.98
1:C:806:LEU:CA	2:D:1075:ALA:HB1	1.93	0.97
1:G:1823:ILE:HD11	1:G:1827:TYR:HA	1.45	0.97
1:K:3083:LEU:HA	1:K:3090:LEU:HD23	1.44	0.97
2:F:1665:LEU:HB2	1:G:1931:SER:CA	1.93	0.97
1:I:2508:ILE:HD13	2:J:2781:ILE:HG12	1.46	0.97
2:D:963:MET:HG3	2:D:971:TYR:CE2	2.01	0.96
2:B:523:LEU:HD12	2:B:526:ILE:HD13	1.46	0.96
1:E:1234:LEU:HD21	1:E:1236:ILE:HD11	1.44	0.96
2:H:2035:ILE:HG23	2:H:2064:ILE:HD11	1.46	0.96
1:I:2519:LEU:HA	2:J:2788:ALA:CB	1.94	0.96
1:E:1380:LEU:HD23	2:F:1649:ALA:HB2	1.44	0.96
1:K:3093:LEU:CD2	1:K:3096:LEU:HB3	1.94	0.96
1:G:1750:VAL:HB	1:G:1820:PHE:HZ	1.30	0.96
2:F:1665:LEU:CD2	1:G:1931:SER:HB3	1.96	0.96
1:G:1819:ILE:HD12	1:G:1827:TYR:CE1	2.01	0.95
1:G:1941:LEU:HA	1:G:1948:LEU:HD23	1.43	0.95
1:C:806:LEU:HA	2:D:1075:ALA:CB	1.96	0.95
2:D:894:PHE:CZ	2:D:919:GLN:HB3	2.01	0.95
1:G:1886:LEU:HD23	1:G:1886:LEU:H	1.31	0.95
1:A:242:GLU:HB2	2:B:503:GLU:CG	1.94	0.95
1:E:1241:VAL:HG12	1:E:1244:GLN:HB2	1.48	0.95
1:A:235:LEU:HA	2:B:504:ALA:CB	1.96	0.95
2:B:461:PHE:HB2	2:B:464:GLU:HB3	1.48	0.95
1:G:1823:ILE:CD1	1:G:1827:TYR:HA	1.97	0.95
1:G:1951:LEU:HG	2:H:2220:ALA:CB	1.95	0.95
2:H:2233:TYR:HA	1:I:2502:SER:CB	1.96	0.95
2:J:2807:LEU:CG	1:K:3076:ALA:HB2	1.97	0.95
1:I:2522:LEU:HB2	2:J:2791:ALA:CB	1.97	0.95
2:B:523:LEU:HD22	1:C:792:ALA:CA	1.97	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1377:LEU:CA	2:F:1646:ALA:HB1	1.97	0.95
1:A:235:LEU:HD23	2:B:504:ALA:HB2	1.48	0.95
2:B:514:LEU:HA	2:B:520:TYR:CD2	2.02	0.95
1:G:1951:LEU:HD13	2:H:2216:GLU:HG3	1.47	0.95
1:I:2374:ILE:HG12	1:I:2457:LEU:HD23	1.48	0.95
1:E:1261:LEU:HB3	1:E:1262:PRO:HD3	1.48	0.95
1:E:1377:LEU:HD22	2:F:1646:ALA:HB1	1.48	0.95
1:E:1381:ARG:HA	2:F:1645:GLU:HG3	1.48	0.95
2:F:1662:TYR:HA	1:G:1931:SER:CB	1.96	0.95
1:K:2949:ILE:HD12	1:K:2951:PHE:HE2	1.32	0.95
1:C:809:LEU:HD22	1:C:812:LEU:HB2	1.48	0.95
2:H:2258:LEU:HD13	1:I:2545:PRO:HG2	1.49	0.95
2:J:2568:LEU:HD12	2:J:2569:PRO:HD2	1.48	0.95
2:J:2606:ILE:HG22	2:J:2635:ILE:CG2	1.96	0.95
2:J:2624:LEU:HD23	2:J:2624:LEU:H	1.27	0.95
1:K:2949:ILE:HG22	1:K:3023:VAL:HG22	1.47	0.95
1:G:1941:LEU:HD21	1:G:1949:ILE:HB	1.49	0.94
1:I:2403:LEU:HB3	1:I:2404:PRO:HD3	1.49	0.94
2:J:2597:PHE:HE2	2:J:2627:ARG:HB2	1.28	0.94
2:B:357:ALA:HA	2:B:383:ARG:HG2	1.45	0.94
2:D:893:ILE:HD13	2:D:961:PRO:HG3	1.48	0.94
1:E:1213:SER:HA	1:E:1239:ARG:HG2	1.48	0.94
1:G:1874:PHE:HB3	1:G:1876:LEU:CD1	1.97	0.94
2:J:2800:LYS:HB3	2:J:2804:TYR:CD1	2.02	0.94
1:G:1955:GLU:CG	2:H:2216:GLU:HB2	1.97	0.94
1:K:3086:ALA:HB3	1:K:3090:LEU:HD22	1.46	0.94
2:F:1486:ILE:HD13	2:F:1486:ILE:H	1.32	0.94
2:F:1603:PHE:CG	2:F:1606:GLU:HB2	2.00	0.94
1:G:1722:ILE:HA	1:G:1725:PHE:CE1	2.03	0.94
1:A:106:ILE:HG22	1:A:110:ILE:CD1	1.96	0.94
1:A:221:ALA:CA	1:K:3093:LEU:HD12	1.97	0.94
1:A:242:GLU:CB	2:B:503:GLU:HG3	1.96	0.94
1:G:1941:LEU:HD11	1:G:1949:ILE:CA	1.96	0.93
1:A:221:ALA:HB2	1:K:3093:LEU:CG	1.98	0.93
1:A:238:LEU:CG	2:B:507:ALA:HB2	1.99	0.93
1:E:1370:LEU:HD11	1:E:1378:ILE:HB	1.49	0.93
2:J:2798:LEU:CD2	2:J:2805:ILE:HG12	1.97	0.93
1:A:94:ILE:HG23	1:A:165:LEU:HD13	1.50	0.93
2:J:2807:LEU:HB3	1:K:3072:ASP:C	1.94	0.93
2:D:1011:LEU:HD23	2:D:1022:LEU:HD21	1.49	0.93
1:G:1941:LEU:HD21	1:G:1949:ILE:CG1	1.99	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:2519:LEU:HD22	2:J:2788:ALA:CB	1.99	0.93
1:I:2418:PHE:CZ	1:I:2430:VAL:HG22	2.03	0.92
1:C:809:LEU:HG	2:D:1078:ALA:CB	1.98	0.92
2:D:1095:ARG:HG3	1:E:1356:ALA:HB1	1.51	0.92
2:J:2794:LEU:HD21	1:K:3066:ILE:HA	1.50	0.92
2:J:2804:TYR:HA	1:K:3073:SER:CB	1.98	0.92
2:B:510:LEU:CD2	1:C:782:ILE:HD13	1.99	0.92
2:D:933:ILE:HG21	2:D:980:VAL:HG11	1.50	0.92
2:F:1465:PHE:CE2	2:F:1478:LEU:HD21	2.05	0.92
1:G:1759:GLN:HE21	1:G:1761:ILE:HD12	1.34	0.92
1:A:235:LEU:CD2	2:B:501:GLU:HA	1.99	0.92
2:B:444:ALA:HA	2:B:447:PHE:CD2	2.03	0.92
1:G:1948:LEU:HA	2:H:2217:ALA:CB	1.98	0.92
2:H:2109:LEU:HD22	2:H:2113:TYR:CD1	2.05	0.92
2:D:1008:ARG:HD3	2:D:1025:VAL:HG22	1.49	0.92
2:F:1665:LEU:HD21	1:G:1927:ALA:O	1.70	0.92
1:I:2512:LEU:CG	1:I:2520:ILE:HG12	1.99	0.92
1:A:228:LEU:HA	1:A:235:LEU:HD13	1.52	0.92
1:G:1812:VAL:HG11	1:G:1815:GLN:HG3	1.52	0.91
2:H:2091:LEU:HD12	2:H:2093:VAL:HG23	1.50	0.91
1:E:1213:SER:HB2	1:E:1237:LEU:CD2	1.99	0.91
2:J:2811:ARG:HD2	1:K:3068:SER:HB3	1.51	0.91
1:C:662:THR:CG2	1:C:742:THR:HG23	2.01	0.91
2:D:915:ILE:HG23	2:D:919:GLN:CG	2.01	0.91
1:I:2435:SER:HA	1:I:2452:VAL:HG11	1.53	0.91
1:I:2522:LEU:HD12	1:I:2525:LEU:HB3	1.52	0.91
2:B:523:LEU:HB2	1:C:792:ALA:HB2	1.50	0.91
1:I:2512:LEU:HD12	1:I:2519:LEU:CD1	2.01	0.91
1:A:217:ASP:C	1:K:3093:LEU:HB3	1.95	0.91
2:B:516:LYS:HB3	2:B:520:TYR:CD1	2.04	0.91
2:F:1665:LEU:HD22	1:G:1931:SER:CB	1.99	0.91
1:A:36:ALA:HB3	1:A:50:VAL:CG1	2.01	0.91
1:I:2314:VAL:HG13	1:I:2336:GLU:HA	1.52	0.91
1:A:238:LEU:HG	1:A:241:LEU:HB3	1.53	0.91
2:F:1547:LEU:HB3	2:F:1548:PRO:HD3	1.52	0.91
2:J:2808:ARG:CG	1:K:3069:ALA:HB1	2.00	0.91
1:A:119:LEU:HB3	1:A:120:PRO:HD3	1.53	0.90
2:B:523:LEU:CG	1:C:792:ALA:HB2	2.01	0.90
2:B:520:TYR:HA	1:C:789:SER:CB	2.01	0.90
2:J:2680:LEU:HD23	2:J:2684:TYR:CA	2.02	0.90
2:H:2236:LEU:CG	1:I:2505:ALA:HB2	2.01	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:2998:ARG:HH12	1:K:3025:LEU:HD11	1.32	0.90
1:E:1241:VAL:CG1	1:E:1244:GLN:HB2	2.00	0.90
2:J:2597:PHE:CE1	2:J:2625:HIS:HB2	2.07	0.90
2:J:2684:TYR:OH	2:J:2731:PHE:HB3	1.72	0.90
2:D:1094:LEU:CG	1:E:1363:ALA:HB2	2.01	0.90
2:F:1665:LEU:HD13	1:G:1930:ASP:CA	2.01	0.90
2:J:2619:ILE:HD13	2:J:2619:ILE:H	1.35	0.90
1:E:1179:VAL:HB	1:E:1245:LEU:CD1	2.01	0.89
1:E:1190:ILE:HD13	1:E:1190:ILE:H	1.36	0.89
2:J:2673:LEU:HD13	2:J:2676:MET:HE2	1.54	0.89
1:K:3083:LEU:HA	1:K:3090:LEU:CD2	2.01	0.89
2:J:2804:TYR:CA	1:K:3073:SER:HB2	2.01	0.89
1:K:2922:PHE:CD1	1:K:2958:LEU:HD12	2.08	0.89
1:K:3083:LEU:HD21	1:K:3094:ARG:HD3	1.55	0.89
1:A:91:THR:HG23	1:A:171:THR:CG2	2.02	0.89
1:C:685:TYR:CE1	1:C:734:LEU:HD11	2.06	0.89
2:F:1665:LEU:HD22	1:G:1931:SER:HB3	1.52	0.89
2:F:1603:PHE:CB	2:F:1606:GLU:HB2	2.03	0.89
1:C:677:ILE:HD13	1:C:685:TYR:CE2	2.08	0.89
1:K:2882:LEU:HD23	1:K:2883:TYR:N	1.87	0.89
1:C:681:ILE:HD12	1:C:685:TYR:HB2	1.52	0.89
1:C:809:LEU:HD22	1:C:812:LEU:CB	2.02	0.89
1:A:30:VAL:HG13	1:A:52:GLU:HA	1.52	0.89
1:C:670:VAL:HG11	1:C:673:GLN:HG2	1.52	0.89
1:E:1252:ILE:CG2	1:E:1256:TYR:HA	2.02	0.89
2:F:1665:LEU:HG	2:F:1666:ARG:N	1.87	0.89
1:G:1839:ILE:HG21	1:G:1867:LEU:HD21	1.52	0.89
2:J:2811:ARG:HB2	1:K:3072:ASP:CG	1.97	0.88
1:G:1941:LEU:HA	1:G:1948:LEU:CD2	2.02	0.88
1:A:91:THR:CG2	1:A:171:THR:HG23	2.00	0.88
1:G:1941:LEU:HD21	1:G:1949:ILE:CB	2.03	0.88
2:J:2689:LEU:HB2	2:J:2690:PRO:HD3	1.55	0.88
1:K:2889:HIS:HD2	1:K:2923:ASP:HA	1.36	0.88
1:A:217:ASP:CG	1:K:3097:GLU:HB2	1.98	0.88
1:E:1380:LEU:CD2	2:F:1649:ALA:HB2	2.03	0.88
2:H:2028:VAL:HG23	2:H:2051:GLU:HA	1.56	0.88
2:J:2744:SER:HB3	2:J:2749:TYR:HB2	1.54	0.88
2:B:335:ILE:H	2:B:335:ILE:HD13	1.38	0.88
1:C:649:VAL:CG1	1:C:698:LEU:HD23	2.04	0.88
1:E:1380:LEU:HB3	2:F:1645:GLU:C	1.98	0.88
2:H:2150:ARG:HA	2:H:2167:VAL:HG21	1.56	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:2236:LEU:HD22	1:I:2505:ALA:CA	2.03	0.88
1:A:238:LEU:HB3	2:B:503:GLU:C	1.98	0.88
1:K:2894:PHE:CD1	1:K:2920:ILE:HD11	2.08	0.88
1:E:1373:ALA:HB1	1:E:1377:LEU:CG	2.03	0.88
2:H:2233:TYR:CA	1:I:2502:SER:HB2	2.02	0.88
1:I:2378:ILE:HG21	1:I:2380:PHE:CE2	2.07	0.88
1:E:1233:THR:CG2	1:E:1313:THR:HG23	2.03	0.88
2:F:1685:ILE:HD13	2:F:1685:ILE:H	1.36	0.88
1:G:1887:THR:HG22	1:G:1892:PHE:CD1	2.08	0.88
1:G:1969:ASN:HD21	2:H:2253:GLN:HB2	1.38	0.88
2:H:2121:ILE:HG23	2:H:2156:ARG:HD2	1.54	0.88
1:I:2378:ILE:CD1	1:I:2452:VAL:HG23	2.04	0.88
1:K:2891:ALA:HB3	1:K:2905:VAL:CG2	2.04	0.88
1:A:110:ILE:HG13	1:A:114:TYR:HA	1.53	0.88
2:H:2236:LEU:HB2	1:I:2505:ALA:HB2	1.54	0.88
2:F:1477:ILE:HD11	2:F:1532:PRO:HD3	1.54	0.87
1:C:661:ILE:HG21	1:C:698:LEU:HD21	1.53	0.87
1:C:747:GLY:HA2	1:C:750:PHE:CD2	2.10	0.87
1:E:1233:THR:HG23	1:E:1313:THR:CG2	2.02	0.87
1:I:2380:PHE:HE1	1:I:2449:LEU:HB2	1.38	0.87
1:C:745:THR:HB	1:C:746:PHE:C	2.00	0.87
1:C:806:LEU:HG	2:D:1075:ALA:CB	2.05	0.87
1:G:1749:ALA:HB3	1:G:1763:VAL:CG1	2.05	0.87
1:C:799:LEU:HD21	1:C:810:ARG:HD2	1.57	0.87
2:H:2272:PHE:HD1	2:H:2273:THR:H	1.23	0.87
1:E:1188:GLN:HB3	1:E:1190:ILE:CD1	2.05	0.87
1:E:1188:GLN:HB3	1:E:1190:ILE:HD13	1.56	0.87
1:I:2458:THR:HG21	1:I:2463:PHE:CD2	2.09	0.87
1:E:1380:LEU:CG	2:F:1649:ALA:HB2	2.04	0.87
2:H:2162:LEU:HD23	2:H:2163:ILE:N	1.89	0.87
2:J:2733:LEU:HD13	2:J:2734:ILE:N	1.90	0.86
2:H:2109:LEU:HD21	2:H:2117:VAL:CG1	2.05	0.86
1:K:2892:VAL:CG1	1:K:2920:ILE:HB	2.06	0.86
2:F:1462:ARG:HH11	2:F:1477:ILE:HG22	1.40	0.86
2:H:2066:TYR:CG	2:H:2102:LEU:HD13	2.09	0.86
1:I:2519:LEU:CA	2:J:2788:ALA:HB1	2.01	0.86
2:J:2606:ILE:HD11	2:J:2615:GLN:O	1.76	0.86
1:I:2442:ALA:HB1	1:I:2447:LEU:CD2	2.05	0.86
2:H:2075:ILE:HD13	2:H:2122:VAL:CG1	2.05	0.86
1:A:94:ILE:HG23	1:A:165:LEU:CD1	2.05	0.86
2:B:514:LEU:HB2	2:B:521:ILE:HD11	1.57	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1234:LEU:CD2	1:E:1236:ILE:HD11	2.04	0.86
1:E:1370:LEU:HD12	1:E:1378:ILE:HD13	1.56	0.86
1:E:1380:LEU:HD21	1:E:1383:LEU:HD22	1.57	0.86
1:A:103:LEU:HA	1:A:106:ILE:CD1	2.05	0.86
1:C:629:ILE:HB	1:C:633:GLN:NE2	1.91	0.86
1:C:813:GLU:CB	2:D:1074:GLU:HG3	2.06	0.86
2:D:893:ILE:CD1	2:D:961:PRO:HG3	2.05	0.86
1:I:2418:PHE:CE2	1:I:2430:VAL:HG22	2.11	0.86
1:A:238:LEU:HD22	2:B:507:ALA:CA	2.06	0.86
2:D:1008:ARG:HA	2:D:1025:VAL:HG21	1.58	0.86
2:D:1098:ARG:HB2	1:E:1359:ASP:CG	2.00	0.86
1:E:1281:LEU:O	1:E:1285:ARG:HG2	1.76	0.86
2:H:2033:ARG:HD3	2:H:2068:ILE:HG13	1.56	0.86
2:H:2066:TYR:CD1	2:H:2102:LEU:HD13	2.10	0.86
2:J:2599:VAL:HG23	2:J:2622:GLU:HA	1.58	0.86
1:A:228:LEU:HA	1:A:235:LEU:CD1	2.05	0.85
1:E:1236:ILE:CD1	1:E:1310:VAL:HG13	2.06	0.85
1:G:1888:PHE:HB2	1:G:1891:GLU:HB2	1.56	0.85
1:G:1944:ALA:HB3	1:G:1948:LEU:HD22	1.55	0.85
1:A:221:ALA:N	1:K:3093:LEU:HD12	1.90	0.85
2:B:523:LEU:CB	1:C:792:ALA:HB2	2.05	0.85
2:F:1652:LEU:HD21	2:F:1666:ARG:CD	2.04	0.85
1:G:1937:ILE:HD11	2:H:2209:LYS:HE3	1.56	0.85
1:K:2885:VAL:HG13	1:K:2907:GLU:HA	1.55	0.85
1:A:69:CYS:O	1:A:97:ARG:HD3	1.75	0.85
2:F:1665:LEU:HD13	1:G:1930:ASP:N	1.91	0.85
2:H:2236:LEU:CB	1:I:2505:ALA:HB2	2.06	0.85
2:J:2807:LEU:CD2	2:J:2810:ILE:HD12	2.06	0.85
1:K:3083:LEU:HD23	1:K:3090:LEU:CD2	2.06	0.85
1:E:1373:ALA:HB1	1:E:1377:LEU:HD12	1.56	0.85
2:H:2279:LEU:HD23	2:H:2281:LYS:HD3	1.59	0.85
2:J:2616:GLN:HA	2:J:2674:PRO:HB3	1.58	0.85
1:G:1759:GLN:NE2	1:G:1761:ILE:HD12	1.91	0.85
1:G:1839:ILE:HG21	1:G:1867:LEU:CD2	2.05	0.85
2:J:2800:LYS:O	2:J:2804:TYR:HB2	1.76	0.85
1:K:3020:LEU:HD21	1:K:3023:VAL:HG23	1.58	0.85
2:D:914:ARG:HG2	2:D:919:GLN:HB2	1.59	0.84
1:G:1948:LEU:CA	2:H:2217:ALA:HB1	2.01	0.84
1:G:1951:LEU:HB3	2:H:2216:GLU:CG	2.07	0.84
2:H:2109:LEU:HD21	2:H:2117:VAL:HG13	1.59	0.84
2:J:2798:LEU:HA	2:J:2804:TYR:CD2	2.12	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:2028:VAL:HG21	2:H:2050:ALA:O	1.76	0.84
1:A:39:PHE:HB3	1:A:45:VAL:HG22	1.57	0.84
2:H:2265:LEU:HB3	2:H:2267:LEU:HD11	1.59	0.84
1:A:39:PHE:HE1	1:A:65:ILE:HD11	1.43	0.84
1:A:106:ILE:O	1:A:110:ILE:HD13	1.78	0.84
2:H:2035:ILE:HG13	2:H:2103:PRO:HG3	1.60	0.84
1:I:2521:GLU:O	1:I:2524:LYS:HG2	1.77	0.84
2:B:459:LEU:H	2:B:459:LEU:HD23	1.43	0.84
2:B:520:TYR:HA	1:C:789:SER:HB2	1.58	0.84
1:E:1148:PHE:O	1:E:1151:ILE:HG22	1.77	0.84
2:F:1582:LEU:HD12	2:F:1583:THR:N	1.93	0.84
2:F:1665:LEU:HB2	1:G:1930:ASP:C	2.02	0.84
2:J:2607:PHE:CE1	2:J:2620:LEU:HD11	2.12	0.84
2:B:514:LEU:HA	2:B:520:TYR:HD2	1.41	0.84
1:G:1823:ILE:HD13	1:G:1831:VAL:HG23	1.57	0.84
1:G:1852:LEU:O	1:G:1856:ARG:HG2	1.78	0.84
2:J:2793:MET:CG	1:K:3066:ILE:HD11	2.06	0.84
1:A:80:THR:HG21	1:A:127:LEU:HD12	1.58	0.83
2:D:914:ARG:HD2	2:D:915:ILE:C	2.03	0.83
1:I:2400:GLU:OE2	1:I:2401:ARG:HG2	1.78	0.83
1:I:2519:LEU:HD21	2:J:2785:GLU:HA	1.58	0.83
1:A:247:ILE:O	1:A:250:GLN:HG3	1.77	0.83
1:C:607:ALA:HB3	1:C:621:VAL:CG1	2.08	0.83
1:E:1225:LYS:O	1:E:1225:LYS:HD3	1.78	0.83
1:G:1941:LEU:CD1	1:G:1948:LEU:HD23	2.08	0.83
2:H:2121:ILE:HD11	2:H:2160:PHE:CE2	2.13	0.83
2:B:516:LYS:O	2:B:520:TYR:HB2	1.77	0.83
2:D:1122:VAL:C	2:D:1123:LEU:HD22	2.02	0.83
2:B:520:TYR:HA	1:C:789:SER:OG	1.78	0.83
1:C:668:ARG:HG3	1:C:735:ILE:HD11	1.61	0.83
2:F:1665:LEU:HB2	1:G:1931:SER:N	1.93	0.83
2:F:1707:SER:C	2:F:1708:LEU:HD22	2.03	0.83
1:G:1941:LEU:HD12	1:G:1948:LEU:CD2	2.06	0.83
1:I:2314:VAL:HG11	1:I:2335:GLY:O	1.78	0.83
2:J:2604:ARG:HD2	2:J:2639:ILE:HG12	1.60	0.83
2:J:2807:LEU:CD1	2:J:2810:ILE:HB	2.08	0.83
1:G:1937:ILE:CD1	2:H:2209:LYS:HE3	2.08	0.83
1:A:214:ALA:HB1	1:K:3094:ARG:HB2	1.61	0.83
2:B:378:LEU:HD11	2:B:413:LEU:HD23	1.60	0.83
1:C:813:GLU:HB3	2:D:1074:GLU:CG	2.08	0.83
2:D:969:LEU:H	2:D:969:LEU:HD12	1.44	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1377:LEU:HA	2:F:1646:ALA:CB	2.05	0.83
1:G:1847:PHE:HE2	1:G:1855:GLN:HB3	1.44	0.83
2:J:2794:LEU:CD2	1:K:3066:ILE:HA	2.09	0.83
2:B:357:ALA:CA	2:B:383:ARG:HG2	2.09	0.83
2:F:1456:THR:CG2	2:F:1482:LEU:HD22	2.08	0.83
1:G:1803:ILE:CD1	1:G:1883:LEU:HD23	2.09	0.83
1:G:1855:GLN:HG3	1:G:1858:LEU:HB2	1.61	0.83
2:J:2607:PHE:HZ	2:J:2620:LEU:HD21	1.42	0.83
2:F:1462:ARG:HD3	2:F:1477:ILE:CG2	2.09	0.82
1:G:1948:LEU:HD12	2:H:2217:ALA:CB	2.09	0.82
2:J:2794:LEU:HD23	1:K:3066:ILE:HG12	1.61	0.82
1:A:219:LYS:O	1:A:219:LYS:HD2	1.79	0.82
2:H:2035:ILE:HD13	2:H:2036:PHE:N	1.92	0.82
1:C:662:THR:HG23	1:C:742:THR:CG2	2.10	0.82
2:D:1008:ARG:O	2:D:1012:THR:HG23	1.79	0.82
1:E:1373:ALA:HB1	1:E:1377:LEU:CB	2.10	0.82
1:G:1803:ILE:HD11	1:G:1883:LEU:HD23	1.62	0.82
2:J:2704:PHE:HE2	2:J:2712:GLN:HB2	1.44	0.82
2:J:2774:LYS:HD2	2:J:2778:ARG:HD3	1.61	0.82
1:K:3083:LEU:CD2	1:K:3090:LEU:HD23	2.09	0.82
1:G:1969:ASN:ND2	2:H:2253:GLN:HB2	1.94	0.82
1:A:218:SER:OG	1:K:3090:LEU:HD12	1.78	0.82
1:E:1245:LEU:HA	1:E:1248:ILE:CD1	2.09	0.82
2:F:1558:VAL:HG21	2:F:1578:ILE:HG22	1.61	0.82
1:I:2512:LEU:HD11	1:I:2520:ILE:CA	2.09	0.82
2:J:2807:LEU:HD23	1:K:3076:ALA:HB2	1.59	0.82
2:B:396:LEU:HG	2:B:400:TYR:HD1	1.44	0.82
2:H:2035:ILE:CG1	2:H:2103:PRO:HG3	2.09	0.82
1:I:2436:ASP:O	1:I:2439:THR:HG22	1.80	0.82
2:J:2807:LEU:CD2	1:K:3076:ALA:HB2	2.08	0.82
1:A:152:ASP:O	1:A:155:THR:HG22	1.80	0.82
2:D:964:TYR:HE1	2:D:969:LEU:HG	1.44	0.82
2:H:2174:PHE:HB2	2:H:2177:GLU:HB2	1.60	0.82
1:K:3007:ASP:O	1:K:3010:THR:HG22	1.80	0.82
1:E:1294:ASP:O	1:E:1297:THR:HG22	1.79	0.82
1:K:2985:VAL:HA	1:K:2988:ARG:HD3	1.60	0.82
2:B:520:TYR:OH	1:C:786:GLU:HG2	1.80	0.82
2:D:894:PHE:CE2	2:D:919:GLN:HB3	2.15	0.82
1:E:1377:LEU:HD22	2:F:1646:ALA:CB	2.10	0.82
1:I:2512:LEU:CD2	1:I:2520:ILE:HG12	2.10	0.82
2:J:2667:ARG:HG3	2:J:2734:ILE:HG22	1.62	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:30:VAL:CG1	1:A:52:GLU:HA	2.09	0.81
1:C:795:ILE:O	1:C:799:LEU:HG	1.79	0.81
1:E:1245:LEU:HB3	1:E:1246:PRO:HD3	1.61	0.81
2:F:1686:TYR:C	2:F:1687:LEU:HD22	2.04	0.81
2:B:514:LEU:HD13	2:B:515:SER:N	1.94	0.81
2:D:964:TYR:CE1	2:D:969:LEU:HG	2.14	0.81
2:F:1601:LEU:HD23	2:F:1602:SER:N	1.95	0.81
1:E:1284:GLN:HG2	1:E:1287:LEU:HB3	1.62	0.81
1:G:1812:VAL:HG12	1:G:1875:GLY:O	1.81	0.81
2:H:2118:LEU:HB3	2:H:2119:PRO:HD3	1.63	0.81
2:H:2229:LYS:HB2	2:H:2233:TYR:CE2	2.15	0.81
2:J:2606:ILE:HG12	2:J:2674:PRO:HG3	1.62	0.81
1:A:238:LEU:HB2	2:B:507:ALA:HB2	1.60	0.81
2:D:1095:ARG:HG3	1:E:1356:ALA:CB	2.11	0.81
1:I:2526:GLU:CG	2:J:2787:GLU:HG3	2.10	0.81
1:A:78:VAL:HG13	1:A:90:ILE:HD11	1.63	0.81
1:A:103:LEU:HD13	1:A:106:ILE:HD12	1.63	0.81
1:G:1750:VAL:HB	1:G:1820:PHE:CZ	2.16	0.81
1:G:1816:LEU:CD2	1:G:1817:PRO:HD3	2.10	0.81
2:H:2227:LEU:HD13	2:H:2234:ILE:HG22	1.62	0.81
1:I:2512:LEU:HG	1:I:2520:ILE:HG12	1.62	0.81
1:I:2519:LEU:CD2	2:J:2785:GLU:HA	2.11	0.81
2:D:960:LEU:HB3	2:D:961:PRO:HD3	1.63	0.81
1:E:1380:LEU:CD2	1:E:1383:LEU:HD22	2.10	0.81
2:J:2672:GLU:HG3	2:J:2732:SER:HB2	1.63	0.81
1:C:804:ASP:O	1:C:807:ILE:HG22	1.80	0.81
2:D:971:TYR:HE1	2:D:1020:LEU:HD23	1.45	0.81
2:D:1011:LEU:HD23	2:D:1022:LEU:CD2	2.11	0.81
2:F:1432:GLY:O	2:F:1435:THR:HG22	1.80	0.81
1:C:708:GLY:O	1:C:711:ILE:HG22	1.81	0.81
2:F:1532:PRO:O	2:F:1536:GLN:HG3	1.80	0.81
2:F:1542:TYR:O	2:F:1546:VAL:HG12	1.81	0.80
1:I:2515:ALA:HB3	1:I:2519:LEU:HG	1.61	0.80
2:J:2662:LEU:HD21	2:J:2697:LEU:HD22	1.63	0.80
2:D:907:LEU:HD13	2:D:908:ALA:N	1.95	0.80
2:H:2169:ILE:HD13	2:H:2169:ILE:H	1.45	0.80
2:B:524:ARG:HB2	1:C:785:ALA:HB1	1.63	0.80
1:C:722:SER:O	1:C:726:THR:HG23	1.82	0.80
1:C:770:VAL:O	1:C:773:LYS:HG3	1.82	0.80
1:E:1213:SER:CB	1:E:1237:LEU:HD21	2.09	0.80
2:F:1495:TYR:OH	2:F:1540:LEU:HD13	1.82	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:1665:LEU:HD12	1:G:1930:ASP:HB2	1.63	0.80
1:G:1956:ALA:O	1:G:1960:ILE:HG22	1.81	0.80
2:H:2237:ARG:HB2	1:I:2498:ALA:HB1	1.63	0.80
1:C:791:ALA:HB2	2:D:1064:GLN:HG2	1.62	0.80
2:D:956:ASN:OD1	2:D:1021:ILE:HG12	1.81	0.80
1:E:1317:PHE:HB3	1:E:1320:GLU:HB2	1.63	0.80
2:F:1528:ALA:O	2:F:1531:LEU:HD23	1.80	0.80
2:H:2091:LEU:HD13	2:H:2092:ARG:N	1.97	0.80
2:H:2096:ARG:HG3	2:H:2163:ILE:HD11	1.63	0.80
2:J:2821:ALA:HB1	1:K:3105:GLN:HG2	1.62	0.80
1:A:235:LEU:CA	2:B:504:ALA:HB1	2.07	0.80
1:A:238:LEU:CB	2:B:507:ALA:HB2	2.11	0.80
2:J:2722:ARG:O	2:J:2726:GLU:HG2	1.82	0.80
1:E:1370:LEU:CD1	1:E:1378:ILE:HB	2.12	0.80
2:H:2019:TYR:O	2:H:2023:GLU:HG2	1.81	0.80
2:J:2645:LYS:H	2:J:2645:LYS:HD3	1.45	0.80
2:J:2794:LEU:CD2	1:K:3066:ILE:HG12	2.12	0.80
1:A:157:ARG:O	1:A:160:THR:HG22	1.81	0.80
1:C:677:ILE:HD12	1:C:678:PHE:N	1.97	0.80
1:I:2394:ILE:HG21	1:I:2398:TYR:HA	1.63	0.80
1:A:228:LEU:HD23	1:A:236:ILE:HA	1.64	0.80
2:B:423:SER:O	2:B:426:ILE:HG22	1.82	0.80
2:B:523:LEU:HD22	1:C:792:ALA:HA	1.64	0.80
1:E:1373:ALA:HB1	1:E:1377:LEU:CD1	2.11	0.80
2:F:1525:ARG:HD2	2:F:1594:ASP:OD2	1.82	0.80
2:F:1530:GLU:HG2	2:F:1590:SER:OG	1.82	0.80
1:I:2290:PHE:O	1:I:2293:ILE:HG22	1.81	0.80
1:I:2374:ILE:CG1	1:I:2457:LEU:HD23	2.12	0.80
1:K:3102:ILE:HG13	1:K:3106:LEU:HD23	1.64	0.80
1:E:1144:ALA:HB1	1:E:1148:PHE:HE2	1.46	0.79
2:F:1531:LEU:HD13	2:F:1534:MET:CE	2.11	0.79
2:J:2818:LYS:HA	1:K:3105:GLN:OE1	1.81	0.79
2:J:2828:TYR:CD2	2:J:2830:THR:HG23	2.17	0.79
1:K:3030:PHE:CB	1:K:3033:GLU:HB3	2.12	0.79
1:A:221:ALA:HB2	1:K:3093:LEU:HB2	1.63	0.79
2:H:2038:ASN:OD1	2:H:2061:GLN:HG2	1.81	0.79
2:J:2668:PRO:HB3	2:J:2676:MET:HE1	1.62	0.79
2:H:2079:THR:HG21	2:H:2130:VAL:HG11	1.64	0.79
1:A:26:ALA:O	1:A:57:LEU:HD23	1.83	0.79
1:A:259:TYR:HE2	2:J:2829:LEU:HG	1.45	0.79
2:B:514:LEU:HB2	2:B:521:ILE:CD1	2.12	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:2006:THR:O	2:H:2009:LYS:HG3	1.81	0.79
1:K:2949:ILE:HD12	1:K:2951:PHE:CE2	2.17	0.79
1:K:2949:ILE:HB	1:K:2951:PHE:CE2	2.17	0.79
1:A:106:ILE:HG22	1:A:110:ILE:HD11	1.63	0.79
2:B:540:GLN:HA	2:B:540:GLN:HE21	1.47	0.79
1:K:2998:ARG:NH1	1:K:3025:LEU:HD11	1.96	0.79
1:K:3086:ALA:HB1	1:K:3090:LEU:HD13	1.64	0.79
1:A:45:VAL:HG21	1:A:107:PHE:HD2	1.48	0.79
2:F:1582:LEU:CD2	2:F:1596:VAL:HG21	2.12	0.79
2:H:2173:SER:HB2	2:H:2178:TYR:HB2	1.63	0.79
2:J:2774:LYS:CD	2:J:2778:ARG:HD3	2.13	0.79
1:K:3020:LEU:HD11	1:K:3023:VAL:HG23	1.65	0.79
1:E:1269:LEU:CD2	1:E:1292:VAL:HG21	2.13	0.79
1:G:1750:VAL:CB	1:G:1820:PHE:HZ	1.95	0.79
1:G:1791:VAL:HG12	1:G:1793:THR:HG23	1.63	0.79
2:J:2798:LEU:HD11	2:J:2805:ILE:CA	2.12	0.79
1:A:30:VAL:HG11	1:A:51:GLY:O	1.83	0.79
1:K:2885:VAL:CG1	1:K:2907:GLU:HA	2.12	0.79
1:A:231:ALA:HB3	1:A:235:LEU:CD1	2.11	0.79
1:C:806:LEU:HG	2:D:1075:ALA:HB2	1.64	0.79
1:E:1260:VAL:HG22	1:E:1264:ILE:HD13	1.65	0.79
1:K:2885:VAL:HG11	1:K:2906:GLY:O	1.83	0.79
1:A:224:ILE:HG12	2:B:497:ILE:HG22	1.65	0.79
2:D:915:ILE:HG23	2:D:919:GLN:HG3	1.63	0.79
2:D:915:ILE:HG23	2:D:919:GLN:CD	2.07	0.79
1:E:1231:ASN:C	1:E:1232:ILE:HD12	2.08	0.79
1:E:1381:ARG:HB2	2:F:1642:ALA:HB1	1.65	0.79
1:G:1951:LEU:CD2	1:G:1954:LEU:HB2	2.10	0.79
1:K:2954:VAL:HG22	1:K:3017:GLY:O	1.82	0.79
2:D:1114:ILE:HG22	2:D:1115:TYR:H	1.46	0.78
1:E:1380:LEU:HD22	1:E:1383:LEU:HD13	1.64	0.78
2:F:1531:LEU:HA	2:F:1534:MET:SD	2.22	0.78
2:H:1990:LEU:HD23	2:H:1991:LYS:N	1.98	0.78
1:I:2383:VAL:HG23	1:I:2386:GLN:HB2	1.65	0.78
1:A:43:ARG:HH11	1:A:43:ARG:HB2	1.47	0.78
1:I:2378:ILE:HD13	1:I:2452:VAL:HG23	1.64	0.78
1:C:746:PHE:HB2	1:C:749:GLU:CD	2.08	0.78
2:H:2153:LEU:HG	2:H:2164:LEU:HD11	1.64	0.78
1:I:2512:LEU:HD21	1:I:2520:ILE:HG12	1.63	0.78
2:J:2684:TYR:O	2:J:2688:VAL:HG12	1.83	0.78
2:B:385:ASN:ND2	2:B:448:SER:HB3	1.97	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:667:PHE:HZ	1:C:690:LEU:HD12	1.48	0.78
1:C:799:LEU:CD2	1:C:810:ARG:HD2	2.14	0.78
1:E:1252:ILE:HG21	1:E:1256:TYR:CA	2.07	0.78
2:J:2798:LEU:HD12	2:J:2804:TYR:HB3	1.65	0.78
1:A:221:ALA:HB2	1:K:3093:LEU:CB	2.14	0.78
1:A:239:ARG:HG3	2:B:500:ALA:CB	2.14	0.78
1:C:671:ALA:O	1:C:674:LEU:HD13	1.83	0.78
2:D:887:GLU:HG3	2:D:890:HIS:CD2	2.19	0.78
2:F:1582:LEU:HD21	2:F:1596:VAL:HG21	1.65	0.78
1:C:670:VAL:HG12	1:C:673:GLN:HB2	1.65	0.78
1:C:810:ARG:O	1:C:813:GLU:HG3	1.82	0.78
2:D:984:LEU:HD23	2:D:1007:ILE:HD12	1.66	0.78
1:E:1370:LEU:CD1	1:E:1378:ILE:HD13	2.12	0.78
1:K:2973:VAL:CG2	1:K:2974:LEU:HD22	2.13	0.78
1:K:3088:ASP:O	1:K:3091:ILE:HG22	1.83	0.78
1:A:100:ALA:O	1:A:103:LEU:HD23	1.83	0.78
1:A:238:LEU:HD22	2:B:507:ALA:HB2	1.66	0.78
1:G:1816:LEU:HD23	1:G:1817:PRO:HD3	1.65	0.78
2:H:2236:LEU:HG	2:H:2239:ILE:HB	1.66	0.78
2:H:2236:LEU:HD13	1:I:2505:ALA:CB	2.14	0.78
2:D:915:ILE:HD13	2:D:915:ILE:O	1.84	0.78
1:E:1213:SER:CA	1:E:1239:ARG:HG2	2.14	0.78
1:G:1951:LEU:HD22	1:G:1954:LEU:CB	2.11	0.78
2:J:2798:LEU:HD11	2:J:2805:ILE:CG1	2.13	0.78
2:J:2798:LEU:HD13	2:J:2808:ARG:HH11	1.47	0.78
2:J:2607:PHE:CZ	2:J:2620:LEU:HD21	2.18	0.78
1:K:2874:ALA:O	1:K:2878:VAL:HG23	1.84	0.78
2:B:305:ALA:O	2:B:308:VAL:HG12	1.83	0.77
2:B:511:GLY:O	2:B:514:LEU:HD12	1.82	0.77
2:D:906:ILE:CD1	2:D:958:GLN:HA	2.14	0.77
2:H:2007:ALA:O	2:H:2011:LEU:HD23	1.84	0.77
2:H:2195:ALA:HA	2:H:2198:LEU:CD2	2.13	0.77
2:F:1658:LYS:O	2:F:1662:TYR:HB2	1.84	0.77
2:F:1711:GLY:C	2:F:1712:LYS:HE3	2.08	0.77
2:J:2610:ARG:HD2	2:J:2631:PHE:HA	1.65	0.77
1:K:2970:ASP:HA	1:K:2974:LEU:HD23	1.67	0.77
1:C:597:ALA:HB1	1:C:627:PHE:CE1	2.20	0.77
1:I:2364:THR:HG21	1:I:2415:VAL:HG11	1.66	0.77
2:J:2673:LEU:HD13	2:J:2676:MET:CE	2.14	0.77
1:K:2894:PHE:HD1	1:K:2920:ILE:HD11	1.45	0.77
1:G:1948:LEU:HD12	2:H:2217:ALA:HB3	1.65	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:2035:ILE:HD12	2:H:2043:VAL:HG13	1.66	0.77
1:I:2422:GLU:HB3	1:I:2426:GLN:OE1	1.84	0.77
1:I:2423:LEU:HD21	1:I:2457:LEU:CD2	2.13	0.77
2:J:2606:ILE:CG1	2:J:2674:PRO:HG3	2.14	0.77
1:E:1337:ARG:O	1:E:1341:VAL:HG23	1.84	0.77
1:K:3053:PHE:O	1:K:3057:LYS:HG2	1.85	0.77
2:B:523:LEU:HG	2:B:526:ILE:HB	1.66	0.77
1:C:747:GLY:HA2	1:C:750:PHE:CE2	2.20	0.77
2:D:924:TYR:HB2	2:D:960:LEU:HD11	1.64	0.77
1:I:2552:LEU:HD13	1:I:2553:GLN:N	2.00	0.77
2:J:2604:ARG:HH11	2:J:2670:ALA:HB1	1.48	0.77
1:A:8:SER:HA	1:A:11:LYS:NZ	1.99	0.77
2:B:441:THR:OG1	2:B:451:LEU:HD11	1.83	0.77
2:F:1502:ARG:HG3	2:F:1547:LEU:HD23	1.67	0.77
1:G:1860:SER:HA	1:G:1883:LEU:HD11	1.64	0.77
2:B:466:THR:O	2:B:469:VAL:HG12	1.85	0.77
2:D:893:ILE:HD11	2:D:902:GLN:O	1.83	0.77
1:E:1296:LEU:HD23	1:E:1307:LEU:HD13	1.66	0.77
1:A:214:ALA:HB1	1:K:3094:ARG:CB	2.14	0.77
2:D:914:ARG:CG	2:D:919:GLN:HB2	2.14	0.77
2:D:1015:ALA:HB1	2:D:1020:LEU:CD1	2.14	0.77
2:D:1094:LEU:HB2	1:E:1363:ALA:HB2	1.66	0.77
1:E:1221:ILE:HG23	1:E:1231:ASN:HD21	1.50	0.77
1:E:1373:ALA:CB	1:E:1377:LEU:HD12	2.15	0.77
2:F:1486:ILE:HD11	2:F:1490:GLN:NE2	1.99	0.77
1:G:1749:ALA:O	1:G:1763:VAL:HG12	1.85	0.77
1:G:1948:LEU:CD1	2:H:2214:GLU:HA	2.12	0.77
1:I:2293:ILE:O	1:I:2293:ILE:HD13	1.85	0.77
1:I:2383:VAL:CG2	1:I:2386:GLN:HB2	2.15	0.77
2:J:2604:ARG:NH1	2:J:2670:ALA:HB1	1.99	0.77
1:K:2974:LEU:HB2	1:K:2975:PRO:HD3	1.66	0.77
2:B:514:LEU:O	2:B:514:LEU:HD22	1.84	0.76
2:D:1022:LEU:HD21	2:D:1025:VAL:CG1	2.14	0.76
2:D:1085:LEU:HD12	2:D:1085:LEU:O	1.86	0.76
1:E:1380:LEU:HB2	2:F:1649:ALA:CB	2.15	0.76
2:F:1615:GLN:O	2:F:1619:GLN:HG3	1.85	0.76
1:G:1948:LEU:HD11	2:H:2214:GLU:CA	2.15	0.76
1:I:2314:VAL:CG1	1:I:2336:GLU:HA	2.15	0.76
2:J:2646:ILE:HG21	2:J:2693:VAL:HG21	1.67	0.76
2:J:2821:ALA:CB	1:K:3105:GLN:HG2	2.15	0.76
1:K:2981:ILE:HD11	1:K:3009:LEU:HD23	1.66	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1380:LEU:HB2	2:F:1649:ALA:HB2	1.68	0.76
1:G:1878:LEU:HD21	1:G:1881:VAL:HG22	1.67	0.76
1:A:97:ARG:HG3	1:A:98:PRO:N	1.96	0.76
2:D:1094:LEU:HG	1:E:1363:ALA:HB2	1.65	0.76
1:E:1276:PHE:HE2	1:E:1288:VAL:HG23	1.50	0.76
1:I:2475:GLN:O	1:I:2479:ARG:HG2	1.84	0.76
2:J:2607:PHE:HE1	2:J:2620:LEU:HD11	1.48	0.76
1:K:2892:VAL:HG12	1:K:2920:ILE:HB	1.67	0.76
1:E:1391:TYR:O	1:E:1395:ARG:HG2	1.86	0.76
1:I:2438:LEU:HD23	1:I:2438:LEU:O	1.86	0.76
2:D:1061:LYS:HA	2:D:1064:GLN:NE2	2.01	0.76
1:E:1179:VAL:HB	1:E:1245:LEU:HD12	1.67	0.76
2:H:2195:ALA:HA	2:H:2198:LEU:HD21	1.68	0.76
1:K:3020:LEU:CD2	1:K:3023:VAL:HG23	2.15	0.76
1:E:1179:VAL:HB	1:E:1245:LEU:HD11	1.67	0.76
1:E:1182:ASP:OD1	1:E:1204:GLN:HB3	1.85	0.76
1:G:1944:ALA:CB	1:G:1948:LEU:HD22	2.15	0.76
2:H:2129:VAL:HG13	2:H:2148:LEU:HD23	1.66	0.76
1:A:238:LEU:HB3	2:B:503:GLU:O	1.85	0.76
1:A:238:LEU:CD2	2:B:507:ALA:HB2	2.16	0.76
1:C:816:GLU:HG2	1:C:820:TYR:CE1	2.21	0.76
1:E:1377:LEU:CD2	2:F:1646:ALA:HB1	2.14	0.76
1:G:1839:ILE:O	1:G:1839:ILE:HD13	1.85	0.76
1:G:1909:ALA:O	1:G:1912:VAL:HG12	1.86	0.76
2:J:2608:PHE:CE2	2:J:2633:TYR:HB3	2.21	0.76
1:K:2969:TYR:CE2	1:K:3018:LEU:HD11	2.21	0.76
1:A:221:ALA:HB2	1:K:3093:LEU:HG	1.66	0.76
2:J:2680:LEU:CD2	2:J:2684:TYR:HA	2.09	0.76
1:C:725:LEU:HD22	1:C:736:LEU:CD2	2.16	0.76
1:C:725:LEU:HD22	1:C:736:LEU:HD21	1.66	0.76
1:E:1384:GLU:HB2	2:F:1645:GLU:CD	2.11	0.76
2:H:2176:ARG:O	2:H:2179:THR:HG22	1.86	0.76
2:B:383:ARG:O	2:B:450:ILE:HG22	1.86	0.75
2:H:2249:ILE:O	2:H:2249:ILE:HD13	1.85	0.75
1:A:19:ALA:O	1:A:22:VAL:HG22	1.87	0.75
2:B:336:LEU:HD22	2:B:343:ARG:NH2	2.01	0.75
2:D:861:GLY:O	2:D:864:THR:HG22	1.86	0.75
1:K:2958:LEU:HD13	1:K:2961:ILE:CD1	2.17	0.75
1:K:3079:ILE:O	1:K:3083:LEU:HG	1.86	0.75
2:B:290:GLY:O	2:B:293:THR:HG22	1.86	0.75
1:C:826:ARG:HG3	1:C:827:ASN:H	1.50	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:1094:LEU:CB	1:E:1363:ALA:HB2	2.16	0.75
2:D:976:LEU:HB2	2:D:977:PRO:HD3	1.66	0.75
1:C:590:ALA:O	1:C:593:VAL:HG12	1.87	0.75
2:F:1603:PHE:HB2	2:F:1606:GLU:HB2	1.68	0.75
2:H:2236:LEU:CD1	2:H:2239:ILE:HD12	2.16	0.75
1:I:2512:LEU:CD1	1:I:2520:ILE:HA	2.14	0.75
2:J:2740:ILE:HD12	2:J:2743:LEU:HD21	1.67	0.75
1:E:1380:LEU:O	1:E:1380:LEU:HD13	1.87	0.75
2:F:1665:LEU:HD22	1:G:1931:SER:CA	2.16	0.75
1:K:2912:LEU:HD21	1:K:2919:PRO:HG3	1.67	0.75
1:E:1170:TYR:CZ	1:E:1206:PRO:HB2	2.22	0.75
2:H:2035:ILE:CD1	2:H:2043:VAL:HG13	2.16	0.75
2:J:2808:ARG:HG2	1:K:3069:ALA:CB	2.16	0.75
2:B:400:TYR:O	2:B:404:VAL:HG12	1.86	0.75
2:H:2222:MET:HG3	1:I:2491:LYS:NZ	2.02	0.75
2:J:2653:LYS:HD2	2:J:2653:LYS:O	1.86	0.75
1:A:114:TYR:O	1:A:118:VAL:HG22	1.86	0.75
1:C:657:GLN:HE21	1:C:657:GLN:HA	1.52	0.75
2:D:971:TYR:CE1	2:D:1020:LEU:HD23	2.22	0.75
2:F:1665:LEU:HB3	1:G:1931:SER:HA	1.66	0.75
1:G:1856:ARG:O	1:G:1859:VAL:HG12	1.85	0.75
2:H:2075:ILE:HD13	2:H:2122:VAL:HG11	1.69	0.75
1:I:2380:PHE:CE1	1:I:2449:LEU:HB2	2.21	0.75
1:A:45:VAL:HG21	1:A:107:PHE:CD2	2.22	0.74
1:A:215:GLU:CB	1:K:3090:LEU:HD11	2.16	0.74
1:C:667:PHE:CZ	1:C:690:LEU:HD12	2.21	0.74
2:F:1665:LEU:HD21	1:G:1928:GLU:HA	1.69	0.74
2:H:2138:LEU:HD21	2:H:2172:LEU:HD23	1.69	0.74
2:J:2805:ILE:HG23	2:J:2808:ARG:HH12	1.52	0.74
2:B:429:ARG:O	2:B:432:VAL:HG12	1.86	0.74
2:D:872:ALA:O	2:D:875:VAL:HG12	1.86	0.74
1:E:1376:GLY:HA3	2:F:1650:LYS:HE2	1.68	0.74
1:K:3113:THR:HG22	1:K:3114:TYR:H	1.51	0.74
2:F:1665:LEU:HD11	1:G:1927:ALA:C	2.12	0.74
1:G:1750:VAL:CG2	1:G:1816:LEU:HG	2.17	0.74
2:H:2035:ILE:HG23	2:H:2064:ILE:CD1	2.17	0.74
2:J:2602:GLY:O	2:J:2639:ILE:HB	1.85	0.74
2:B:523:LEU:HB3	1:C:788:ASP:C	2.12	0.74
2:D:866:LEU:O	2:D:870:LEU:HD13	1.88	0.74
2:F:1665:LEU:CD1	1:G:1930:ASP:HB2	2.18	0.74
2:J:2670:ALA:O	2:J:2673:LEU:HD23	1.86	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:74:ARG:HB2	1:A:96:PHE:CE2	2.15	0.74
2:B:369:LYS:O	2:B:369:LYS:HD3	1.88	0.74
2:H:2236:LEU:HD22	1:I:2505:ALA:HA	1.67	0.74
1:I:2508:ILE:CD1	2:J:2781:ILE:HG12	2.17	0.74
1:I:2522:LEU:HB3	2:J:2787:GLU:C	2.12	0.74
1:A:110:ILE:HD11	1:A:114:TYR:HB3	1.69	0.74
1:A:144:GLU:HG3	1:A:145:LEU:HD22	1.69	0.74
1:C:806:LEU:HD11	2:D:1072:GLU:HB3	1.69	0.74
1:G:1855:GLN:CD	1:G:1858:LEU:HD12	2.12	0.74
1:G:1955:GLU:HG2	2:H:2216:GLU:CD	2.11	0.74
1:I:2380:PHE:CD1	1:I:2447:LEU:HD23	2.22	0.74
1:I:2442:ALA:O	1:I:2447:LEU:HD13	1.88	0.74
2:D:893:ILE:HG23	2:D:922:ILE:HD11	1.69	0.74
2:F:1579:ARG:HA	2:F:1582:LEU:HD21	1.70	0.74
2:H:2222:MET:HG3	1:I:2491:LYS:HZ1	1.53	0.74
1:C:611:ASP:HB3	1:C:614:ARG:HB2	1.69	0.74
2:D:864:THR:O	2:D:868:LEU:HG	1.87	0.74
1:E:1325:VAL:O	1:E:1328:LYS:HG2	1.88	0.74
2:F:1531:LEU:HB2	2:F:1532:PRO:HD3	1.68	0.74
2:F:1538:LEU:HB3	2:F:1542:TYR:HB3	1.68	0.74
1:A:78:VAL:HG13	1:A:90:ILE:CD1	2.17	0.74
1:A:253:ARG:HE	1:K:3111:ASN:H	1.35	0.74
2:B:396:LEU:HG	2:B:400:TYR:CD1	2.22	0.74
1:E:1269:LEU:HD23	1:E:1292:VAL:HG21	1.69	0.74
1:E:1384:GLU:HB2	2:F:1645:GLU:OE2	1.88	0.74
2:F:1660:PRO:O	2:F:1663:ILE:HG22	1.87	0.74
2:H:2032:HIS:O	2:H:2033:ARG:HD2	1.87	0.74
1:I:2522:LEU:HG	2:J:2787:GLU:CB	2.18	0.74
2:B:354:ASP:OD1	2:B:356:ARG:HG3	1.86	0.74
1:C:661:ILE:CG2	1:C:698:LEU:HD21	2.18	0.74
2:F:1665:LEU:HD23	1:G:1931:SER:HB3	1.69	0.74
2:J:2798:LEU:HD21	2:J:2805:ILE:CG1	2.13	0.74
1:K:2949:ILE:CD1	1:K:2951:PHE:HE2	2.00	0.74
1:A:48:ILE:HD12	1:A:48:ILE:O	1.86	0.73
2:B:332:GLN:HA	2:B:390:PRO:HB3	1.70	0.73
2:H:2136:SER:O	2:H:2139:ILE:HG22	1.87	0.73
2:J:2807:LEU:HG	1:K:3076:ALA:HB2	1.68	0.73
2:B:301:ALA:O	2:B:304:VAL:HG12	1.88	0.73
2:B:383:ARG:O	2:B:449:LEU:HD22	1.88	0.73
2:D:906:ILE:HD13	2:D:957:ALA:O	1.87	0.73
2:F:1653:GLY:O	2:F:1656:LEU:HG	1.88	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:2153:LEU:HD23	2:H:2164:LEU:HD13	1.68	0.73
2:J:2828:TYR:HD2	2:J:2830:THR:HG23	1.53	0.73
1:K:2969:TYR:O	1:K:2973:VAL:HG22	1.87	0.73
1:A:221:ALA:CB	1:K:3093:LEU:HB2	2.18	0.73
2:F:1474:GLN:HA	2:F:1532:PRO:HB3	1.70	0.73
2:B:460:SER:OG	2:B:465:TYR:HB2	1.88	0.73
1:A:238:LEU:HD13	2:B:507:ALA:HB2	1.69	0.73
1:C:670:VAL:CG1	1:C:673:GLN:HG2	2.18	0.73
2:D:1092:ILE:HD13	2:D:1092:ILE:O	1.88	0.73
2:F:1464:ILE:HD12	2:F:1532:PRO:HA	1.69	0.73
2:F:1582:LEU:CD2	2:F:1596:VAL:HG11	2.17	0.73
2:H:2037:PHE:HD2	2:H:2043:VAL:HG22	1.53	0.73
2:H:2089:ILE:HD12	2:H:2172:LEU:CG	2.18	0.73
1:I:2312:TYR:CE1	1:I:2348:PRO:HG2	2.23	0.73
1:I:2523:ARG:CB	2:J:2784:ALA:HB1	2.18	0.73
1:C:665:ILE:HG22	1:C:667:PHE:HD1	1.54	0.73
1:C:685:TYR:O	1:C:689:VAL:HG12	1.89	0.73
2:D:869:LEU:HD23	2:D:869:LEU:O	1.89	0.73
2:F:1665:LEU:HD11	1:G:1927:ALA:O	1.88	0.73
2:H:2234:ILE:HD12	2:H:2235:LYS:N	2.04	0.73
1:I:2423:LEU:HD21	1:I:2457:LEU:HD21	1.70	0.73
2:J:2685:GLU:HG3	2:J:2686:GLU:N	2.01	0.73
2:J:2804:TYR:O	2:J:2808:ARG:HG3	1.87	0.73
1:A:238:LEU:CD1	2:B:507:ALA:HB2	2.18	0.73
2:B:299:LEU:O	2:B:299:LEU:HD13	1.88	0.73
1:A:207:LYS:CD	1:K:3075:ALA:HB2	2.17	0.73
1:C:697:ILE:O	1:C:701:VAL:HG23	1.89	0.73
2:J:2662:LEU:CD1	2:J:2740:ILE:HG22	2.19	0.73
1:A:238:LEU:HD22	2:B:507:ALA:CB	2.18	0.73
1:G:1941:LEU:CD2	1:G:1949:ILE:HB	2.19	0.73
2:J:2805:ILE:HA	2:J:2808:ARG:NH1	2.04	0.73
2:B:461:PHE:CB	2:B:464:GLU:HB3	2.18	0.72
2:B:523:LEU:HD13	1:C:792:ALA:CB	2.17	0.72
2:D:914:ARG:HG2	2:D:919:GLN:CB	2.18	0.72
2:D:1022:LEU:HD21	2:D:1025:VAL:HG11	1.70	0.72
1:E:1248:ILE:HD13	1:E:1248:ILE:H	1.54	0.72
1:G:1874:PHE:HB3	1:G:1876:LEU:HD13	1.71	0.72
1:G:1955:GLU:HG2	2:H:2216:GLU:OE1	1.88	0.72
2:H:2028:VAL:CG2	2:H:2051:GLU:HA	2.18	0.72
2:H:2236:LEU:HD22	1:I:2505:ALA:CB	2.19	0.72
1:I:2461:LYS:O	1:I:2464:THR:HG22	1.89	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:2662:LEU:CD2	2:J:2697:LEU:HD22	2.19	0.72
1:K:2988:ARG:HB3	1:K:2988:ARG:HH11	1.54	0.72
1:C:698:LEU:O	1:C:702:VAL:HG23	1.90	0.72
1:E:1370:LEU:CG	1:E:1378:ILE:HB	2.19	0.72
2:F:1528:ALA:HA	2:F:1531:LEU:HD21	1.70	0.72
1:G:1816:LEU:HG	1:G:1817:PRO:HD3	1.70	0.72
1:G:1944:ALA:HB1	1:G:1948:LEU:HB2	1.71	0.72
2:H:2079:THR:HG23	2:H:2127:LYS:HG3	1.68	0.72
1:I:2372:VAL:HG13	1:I:2457:LEU:HD21	1.71	0.72
2:J:2606:ILE:HD13	2:J:2607:PHE:H	1.53	0.72
1:K:2961:ILE:HG13	1:K:2962:PHE:N	2.04	0.72
1:A:127:LEU:O	1:A:131:VAL:HG23	1.90	0.72
2:B:357:ALA:HB2	2:B:383:ARG:HD3	1.72	0.72
1:G:1946:ASP:O	1:G:1949:ILE:HG22	1.89	0.72
1:C:802:ALA:HB1	1:C:806:LEU:HB2	1.71	0.72
1:C:810:ARG:CB	2:D:1071:ALA:HB1	2.19	0.72
2:F:1497:ILE:O	2:F:1497:ILE:HD13	1.88	0.72
2:F:1603:PHE:CD2	2:F:1606:GLU:HB2	2.25	0.72
1:G:1823:ILE:HD13	1:G:1831:VAL:CG2	2.19	0.72
2:H:2040:ILE:HG13	2:H:2060:PHE:CZ	2.24	0.72
2:H:2146:SER:HB2	2:H:2169:ILE:HD12	1.70	0.72
2:J:2811:ARG:CD	1:K:3068:SER:HB3	2.19	0.72
2:D:984:LEU:CD2	2:D:1007:ILE:HD12	2.20	0.72
1:E:1373:ALA:HB1	1:E:1377:LEU:HB2	1.71	0.72
2:F:1665:LEU:CB	1:G:1931:SER:CA	2.59	0.72
1:K:2988:ARG:HB3	1:K:2988:ARG:NH1	2.04	0.72
1:K:3020:LEU:CD1	1:K:3023:VAL:HG23	2.19	0.72
1:A:95:LEU:O	1:A:165:LEU:HD12	1.90	0.72
1:A:165:LEU:HD11	1:A:167:ASP:O	1.88	0.72
1:C:681:ILE:HG13	1:C:685:TYR:HB3	1.71	0.72
2:J:2616:GLN:HA	2:J:2674:PRO:CB	2.20	0.72
2:J:2793:MET:HE3	1:K:3066:ILE:HD11	1.71	0.72
1:K:3051:ALA:O	1:K:3054:VAL:HG22	1.88	0.72
1:A:238:LEU:HB2	2:B:507:ALA:CB	2.20	0.72
1:E:1380:LEU:HD12	2:F:1645:GLU:CA	2.20	0.72
2:F:1641:GLN:HG2	2:F:1645:GLU:OE2	1.90	0.72
2:H:2236:LEU:HD11	2:H:2239:ILE:CD1	2.20	0.72
1:C:583:PHE:O	1:C:587:LEU:HG	1.89	0.72
2:D:915:ILE:H	2:D:919:GLN:HG3	1.54	0.72
1:E:1241:VAL:HG12	1:E:1244:GLN:CB	2.20	0.72
1:C:674:LEU:O	1:C:677:ILE:HG13	1.90	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1380:LEU:CB	2:F:1649:ALA:HB2	2.19	0.71
1:I:2437:ASP:O	1:I:2440:GLU:HG2	1.90	0.71
2:J:2779:GLN:O	2:J:2782:VAL:HG22	1.90	0.71
1:K:3086:ALA:CB	1:K:3090:LEU:HD22	2.18	0.71
1:A:139:LEU:CD2	1:A:173:LEU:HD23	2.20	0.71
1:C:701:VAL:CG2	1:C:720:GLN:HE22	2.02	0.71
1:C:766:ARG:HA	1:C:769:PHE:CD2	2.25	0.71
2:D:992:ASN:OD1	2:D:995:GLN:HG2	1.90	0.71
2:F:1586:ALA:O	2:F:1591:LEU:HD23	1.90	0.71
1:G:1812:VAL:CG1	1:G:1815:GLN:HB2	2.20	0.71
2:J:2606:ILE:HD13	2:J:2607:PHE:N	2.04	0.71
2:J:2807:LEU:HB3	1:K:3072:ASP:O	1.90	0.71
1:K:2922:PHE:CE1	1:K:2958:LEU:HD12	2.25	0.71
1:A:110:ILE:HG13	1:A:114:TYR:CA	2.20	0.71
1:I:2511:SER:O	1:I:2514:THR:HG22	1.90	0.71
1:A:32:ALA:HA	1:A:52:GLU:CD	2.15	0.71
1:A:217:ASP:O	1:K:3093:LEU:HB3	1.88	0.71
2:B:461:PHE:HB2	2:B:464:GLU:CB	2.20	0.71
2:D:906:ILE:HD11	2:D:958:GLN:O	1.91	0.71
2:F:1712:LYS:HE3	2:F:1712:LYS:N	2.04	0.71
1:I:2321:VAL:HG11	1:I:2391:PHE:HD2	1.55	0.71
1:I:2398:TYR:O	1:I:2402:VAL:HG22	1.89	0.71
2:J:2606:ILE:HB	2:J:2637:TYR:HE2	1.54	0.71
2:J:2713:ARG:O	2:J:2716:VAL:HG12	1.90	0.71
1:A:37:VAL:CG2	1:A:65:ILE:HB	2.21	0.71
1:C:627:PHE:C	1:C:628:LEU:HD12	2.15	0.71
2:F:1538:LEU:HD11	2:F:1545:ARG:HB2	1.73	0.71
2:F:1563:ASN:OD1	2:F:1566:GLN:HB2	1.91	0.71
2:J:2805:ILE:HA	2:J:2808:ARG:HH11	1.55	0.71
1:K:3009:LEU:O	1:K:3009:LEU:HD13	1.90	0.71
1:A:238:LEU:HD13	2:B:507:ALA:CB	2.20	0.71
2:F:1686:TYR:O	2:F:1687:LEU:HD22	1.91	0.71
2:J:2745:PHE:HB2	2:J:2748:GLU:HB2	1.73	0.71
1:A:11:LYS:HA	1:A:14:LEU:HD21	1.71	0.71
1:G:1816:LEU:CG	1:G:1817:PRO:HD3	2.20	0.71
1:K:3052:ARG:O	1:K:3055:VAL:HG22	1.89	0.71
2:B:514:LEU:CB	2:B:521:ILE:HD11	2.19	0.71
1:I:2431:SER:OG	1:I:2454:LEU:HD13	1.90	0.71
2:B:523:LEU:HD22	1:C:792:ALA:CB	2.20	0.71
1:C:691:PRO:O	1:C:695:THR:HG23	1.89	0.71
1:C:802:ALA:CB	1:C:806:LEU:HD13	2.21	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:806:LEU:HD11	2:D:1072:GLU:CB	2.20	0.71
2:D:914:ARG:CD	2:D:919:GLN:HB2	2.21	0.71
1:E:1370:LEU:HD11	1:E:1378:ILE:CB	2.20	0.71
1:I:2431:SER:O	1:I:2434:VAL:HG12	1.90	0.71
2:J:2804:TYR:CE1	1:K:3070:GLU:HG3	2.25	0.71
1:A:143:ARG:O	1:A:146:VAL:HG12	1.91	0.71
1:C:576:VAL:O	1:C:580:ILE:HG12	1.91	0.71
2:F:1555:LEU:O	2:F:1559:VAL:HG23	1.90	0.71
2:F:1600:GLU:HG2	2:F:1600:GLU:O	1.91	0.71
1:G:1951:LEU:HD13	2:H:2216:GLU:CG	2.20	0.71
2:H:2033:ARG:HG2	2:H:2068:ILE:HG12	1.73	0.71
2:H:2095:SER:CB	2:H:2162:LEU:HD21	2.19	0.71
2:H:2121:ILE:HD11	2:H:2160:PHE:CD2	2.26	0.71
1:I:2522:LEU:CB	2:J:2791:ALA:HB2	2.16	0.71
2:J:2793:MET:SD	1:K:3066:ILE:HD11	2.29	0.71
1:C:649:VAL:HG12	1:C:661:ILE:HG23	1.73	0.70
2:F:1477:ILE:HD11	2:F:1532:PRO:CD	2.21	0.70
2:F:1665:LEU:HD13	1:G:1930:ASP:C	2.15	0.70
1:G:1813:ALA:O	1:G:1816:LEU:HD22	1.92	0.70
2:H:2236:LEU:HD22	1:I:2505:ALA:HB2	1.73	0.70
1:I:2286:ALA:O	1:I:2289:VAL:HG12	1.91	0.70
1:A:9:ILE:HA	1:A:12:PHE:HD2	1.55	0.70
1:A:90:ILE:H	1:A:90:ILE:HD13	1.56	0.70
2:H:2222:MET:O	2:H:2225:GLU:HG3	1.91	0.70
2:J:2667:ARG:HG3	2:J:2734:ILE:CG2	2.21	0.70
1:K:2982:LEU:O	1:K:2982:LEU:HD23	1.91	0.70
1:K:3086:ALA:CB	1:K:3090:LEU:HD13	2.21	0.70
2:B:523:LEU:HD12	2:B:526:ILE:CD1	2.20	0.70
1:E:1213:SER:HB3	1:E:1239:ARG:HD2	1.72	0.70
1:I:2303:ALA:O	1:I:2306:VAL:HG12	1.90	0.70
1:A:151:SER:HA	1:A:168:VAL:HG11	1.74	0.70
1:C:713:GLN:HG3	1:C:716:LEU:HB3	1.74	0.70
1:C:816:GLU:HG2	1:C:820:TYR:HE1	1.56	0.70
1:C:838:LEU:O	1:C:839:LEU:HD23	1.91	0.70
2:D:978:SER:OG	2:D:979:ILE:HD12	1.90	0.70
1:G:1805:LEU:HD22	1:G:1840:LEU:HD21	1.73	0.70
1:I:2422:GLU:O	1:I:2426:GLN:HG2	1.91	0.70
1:I:2526:GLU:HB2	2:J:2787:GLU:CG	2.16	0.70
2:J:2798:LEU:HD11	2:J:2805:ILE:N	2.06	0.70
1:A:57:LEU:O	1:A:59:PRO:HD3	1.92	0.70
2:B:388:GLU:HG2	2:B:448:SER:OG	1.91	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:1089:PRO:O	2:D:1092:ILE:HG22	1.91	0.70
1:E:1381:ARG:HG3	2:F:1642:ALA:HB1	1.73	0.70
1:K:3040:ALA:O	1:K:3043:VAL:HG22	1.92	0.70
2:B:385:ASN:HD21	2:B:388:GLU:HB3	1.54	0.70
2:B:451:LEU:HD12	2:B:451:LEU:O	1.91	0.70
1:C:661:ILE:HD11	1:C:741:LEU:HD22	1.73	0.70
2:F:1538:LEU:HD12	2:F:1542:TYR:HA	1.74	0.70
1:G:1904:GLN:HA	1:G:1907:GLU:OE2	1.91	0.70
1:I:2358:ARG:HA	1:I:2358:ARG:HE	1.56	0.70
1:K:2969:TYR:HE2	1:K:3018:LEU:HD11	1.55	0.70
1:C:809:LEU:CB	2:D:1078:ALA:HB2	2.20	0.70
1:C:831:LEU:HD23	1:C:831:LEU:H	1.57	0.70
1:E:1380:LEU:HD23	2:F:1649:ALA:CB	2.21	0.70
2:F:1531:LEU:HD13	2:F:1534:MET:SD	2.31	0.70
2:F:1531:LEU:HA	2:F:1534:MET:CG	2.22	0.70
1:G:1808:LEU:O	1:G:1878:LEU:HD12	1.91	0.70
1:G:1819:ILE:HG23	1:G:1827:TYR:CD1	2.27	0.70
1:G:1928:GLU:HG3	1:G:1929:GLY:N	2.06	0.70
1:K:2892:VAL:HB	1:K:2922:PHE:CZ	2.26	0.70
2:F:1426:LEU:HD12	2:F:1427:PRO:HD2	1.72	0.70
1:G:1740:LEU:HD11	1:G:1767:THR:OG1	1.92	0.70
2:H:2236:LEU:HD13	1:I:2505:ALA:HB2	1.74	0.70
1:I:2461:LYS:HA	1:I:2461:LYS:HE3	1.74	0.70
1:K:3102:ILE:O	1:K:3106:LEU:HD23	1.91	0.70
1:A:50:VAL:HG21	1:A:55:HIS:CD2	2.25	0.69
2:B:523:LEU:HB2	1:C:792:ALA:CB	2.22	0.69
2:F:1538:LEU:CD1	2:F:1542:TYR:HA	2.22	0.69
2:H:2096:ARG:O	2:H:2163:ILE:HG12	1.91	0.69
1:A:73:PRO:HA	1:A:95:LEU:HD23	1.74	0.69
1:C:746:PHE:O	1:C:749:GLU:HB2	1.93	0.69
1:C:809:LEU:CD2	1:C:812:LEU:HB2	2.21	0.69
1:G:1933:ALA:O	1:G:1937:ILE:HG13	1.92	0.69
2:H:2079:THR:CG2	2:H:2130:VAL:HG11	2.22	0.69
1:I:2543:TYR:C	1:I:2545:PRO:HD3	2.16	0.69
1:A:59:PRO:O	1:A:60:TRP:HB3	1.92	0.69
1:A:239:ARG:HG3	2:B:500:ALA:HB1	1.72	0.69
1:C:792:ALA:O	1:C:795:ILE:HG22	1.93	0.69
1:E:1170:TYR:OH	1:E:1208:ILE:HG23	1.92	0.69
1:G:1832:LEU:HB2	1:G:1833:PRO:HD3	1.74	0.69
2:J:2662:LEU:HD21	2:J:2697:LEU:CD2	2.23	0.69
2:J:2798:LEU:CG	2:J:2805:ILE:HG12	2.22	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:2947:LEU:CD1	1:K:2982:LEU:HD12	2.22	0.69
2:B:332:GLN:HA	2:B:390:PRO:CB	2.21	0.69
2:B:523:LEU:HD13	1:C:792:ALA:HB2	1.73	0.69
1:E:1345:ALA:O	1:E:1349:LYS:HG2	1.91	0.69
2:H:2010:LEU:O	2:H:2010:LEU:HD23	1.91	0.69
2:H:2236:LEU:CD2	1:I:2505:ALA:HB2	2.22	0.69
1:K:3086:ALA:HB3	1:K:3090:LEU:CD2	2.21	0.69
1:C:609:ILE:HD11	1:C:633:GLN:CG	2.19	0.69
1:C:806:LEU:O	1:C:806:LEU:HD23	1.91	0.69
1:E:1289:SER:O	1:E:1292:VAL:HG12	1.92	0.69
1:G:1745:ALA:HA	1:G:1765:GLU:HG2	1.73	0.69
1:A:197:ARG:O	1:A:200:VAL:HG22	1.93	0.69
1:A:231:ALA:CB	1:A:235:LEU:HD12	2.19	0.69
2:B:295:LEU:HD12	2:B:296:LYS:N	2.07	0.69
1:C:701:VAL:HG22	1:C:720:GLN:HE22	1.58	0.69
1:G:1952:ARG:HB2	2:H:2213:ALA:HB1	1.75	0.69
2:H:2040:ILE:HG13	2:H:2060:PHE:HZ	1.58	0.69
2:H:2250:ALA:HB1	1:I:2535:LEU:HD23	1.73	0.69
2:H:2236:LEU:HB3	1:I:2501:ASP:C	2.18	0.69
1:C:790:LYS:O	1:C:794:LEU:HG	1.92	0.69
2:F:1669:ARG:HB2	1:G:1930:ASP:OD2	1.93	0.69
1:G:1727:LEU:HD13	1:G:1727:LEU:O	1.92	0.69
1:K:2938:LYS:O	1:K:2940:LEU:HD22	1.93	0.69
1:A:103:LEU:HB2	1:A:104:PRO:HD3	1.75	0.69
1:A:174:THR:HB	1:A:175:PHE:C	2.18	0.69
2:D:947:ILE:HD11	2:D:1027:ILE:CG1	2.23	0.69
2:F:1550:ILE:HG13	2:F:1551:VAL:N	2.07	0.69
1:K:2954:VAL:HG23	1:K:2957:GLN:HB3	1.75	0.69
1:C:725:LEU:O	1:C:725:LEU:HD23	1.93	0.69
2:D:1094:LEU:HD12	2:D:1097:ILE:HG21	1.75	0.69
2:F:1659:ASN:HB2	2:F:1660:PRO:HD2	1.72	0.69
2:F:1665:LEU:CG	2:F:1666:ARG:N	2.54	0.69
2:H:2229:LYS:HB2	2:H:2233:TYR:CZ	2.28	0.69
2:J:2807:LEU:HD23	1:K:3076:ALA:CB	2.23	0.69
1:A:142:GLN:HA	1:A:142:GLN:HE21	1.57	0.68
1:E:1276:PHE:CE2	1:E:1288:VAL:HG23	2.28	0.68
2:F:1447:ALA:O	2:F:1450:VAL:HG12	1.93	0.68
2:H:2035:ILE:HG22	2:H:2064:ILE:HG12	1.75	0.68
2:H:2236:LEU:CD1	1:I:2505:ALA:HB2	2.23	0.68
2:J:2624:LEU:H	2:J:2624:LEU:CD2	2.04	0.68
1:K:2929:ARG:O	1:K:2949:ILE:HG12	1.93	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:366:THR:HG21	2:B:413:LEU:HD12	1.73	0.68
2:F:1642:ALA:HA	2:F:1645:GLU:CG	2.23	0.68
1:E:1216:ARG:HD2	1:E:1261:LEU:HG	1.74	0.68
1:A:94:ILE:HG12	1:A:168:VAL:HG23	1.76	0.68
2:F:1531:LEU:O	2:F:1534:MET:HG3	1.94	0.68
2:J:2828:TYR:C	2:J:2829:LEU:HD22	2.19	0.68
1:A:65:ILE:HG13	1:A:107:PHE:CZ	2.29	0.68
1:A:106:ILE:HG22	1:A:110:ILE:HD12	1.74	0.68
2:B:523:LEU:CD1	1:C:792:ALA:HB2	2.22	0.68
2:J:2643:PRO:HG3	2:J:2665:LEU:CD1	2.23	0.68
2:B:483:GLN:O	2:B:486:VAL:HG12	1.93	0.68
2:B:520:TYR:O	1:C:789:SER:HB2	1.94	0.68
2:D:1004:SER:O	2:D:1007:ILE:HG22	1.94	0.68
2:F:1464:ILE:CD1	2:F:1532:PRO:HA	2.23	0.68
2:H:2245:ILE:HG13	2:H:2246:SER:N	2.09	0.68
2:H:2279:LEU:CD2	2:H:2281:LYS:HD3	2.23	0.68
1:I:2526:GLU:HG3	2:J:2787:GLU:HG3	1.74	0.68
1:K:2929:ARG:HB2	1:K:2949:ILE:HG13	1.75	0.68
1:A:39:PHE:HE1	1:A:65:ILE:CD1	2.06	0.68
1:A:146:VAL:O	1:A:150:VAL:HG23	1.93	0.68
2:B:523:LEU:CD2	1:C:792:ALA:HB2	2.24	0.68
1:C:710:LEU:CD2	1:C:744:LEU:HD13	2.24	0.68
1:E:1218:VAL:HG11	1:E:1265:THR:HG21	1.75	0.68
2:F:1627:LEU:HD23	2:F:1627:LEU:O	1.92	0.68
2:J:2804:TYR:HE1	1:K:3070:GLU:HG3	1.59	0.68
1:K:3035:THR:O	1:K:3038:VAL:HG22	1.93	0.68
1:E:1339:ARG:O	1:E:1342:VAL:HG22	1.92	0.68
2:F:1579:ARG:HA	2:F:1582:LEU:CD2	2.24	0.68
2:F:1662:TYR:CE2	1:G:1928:GLU:HB2	2.29	0.68
1:I:2489:GLN:HG3	1:I:2490:GLN:N	2.08	0.68
1:A:215:GLU:HA	1:K:3090:LEU:HD11	1.75	0.68
1:C:716:LEU:O	1:C:716:LEU:HD23	1.93	0.68
2:D:876:ALA:O	2:D:879:VAL:HG22	1.94	0.68
1:E:1263:SER:O	1:E:1266:THR:HG22	1.94	0.68
2:F:1662:TYR:CA	2:F:1665:LEU:HD23	2.23	0.68
1:G:1750:VAL:HG23	1:G:1816:LEU:CD1	2.23	0.68
2:H:2066:TYR:OH	2:H:2106:TYR:HB2	1.94	0.68
2:B:543:ILE:CD1	2:H:2256:ILE:HG22	2.24	0.68
1:C:725:LEU:CD2	1:C:736:LEU:HD21	2.23	0.68
1:I:2504:ALA:O	1:I:2508:ILE:HG12	1.93	0.68
2:J:2767:GLN:O	2:J:2770:VAL:HG22	1.93	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:2798:LEU:HA	2:J:2804:TYR:HD2	1.59	0.68
1:K:3113:THR:HG22	1:K:3114:TYR:N	2.09	0.68
1:A:32:ALA:HA	1:A:52:GLU:HG2	1.75	0.67
1:E:1213:SER:HA	1:E:1239:ARG:CG	2.22	0.67
1:G:1718:VAL:O	1:G:1722:ILE:HG12	1.94	0.67
1:A:63:LYS:HD3	1:A:64:PRO:N	2.10	0.67
2:B:506:ALA:O	2:B:510:LEU:HG	1.94	0.67
2:D:976:LEU:O	2:D:980:VAL:HG23	1.93	0.67
1:G:1752:PHE:HB3	1:G:1776:LYS:HG2	1.76	0.67
2:H:2036:PHE:HE1	2:H:2047:THR:CG2	2.07	0.67
2:J:2604:ARG:HD2	2:J:2639:ILE:CG1	2.24	0.67
1:A:100:ALA:HA	1:A:103:LEU:HD21	1.75	0.67
2:D:922:ILE:HD12	2:D:964:TYR:CE2	2.29	0.67
2:D:1094:LEU:HD13	2:D:1097:ILE:CB	2.19	0.67
1:E:1375:ASP:O	1:E:1378:ILE:HG22	1.95	0.67
2:H:2223:LEU:HD23	2:H:2237:ARG:NH2	2.10	0.67
1:I:2522:LEU:HD23	2:J:2790:ALA:HB3	1.76	0.67
2:J:2724:LEU:HG	2:J:2735:LEU:HD11	1.76	0.67
2:D:971:TYR:HE1	2:D:1020:LEU:CD2	2.07	0.67
1:E:1388:ASP:O	1:E:1392:GLN:HG3	1.93	0.67
2:F:1462:ARG:HH11	2:F:1477:ILE:CG2	2.07	0.67
1:I:2519:LEU:O	1:I:2519:LEU:HD13	1.95	0.67
1:I:2523:ARG:HB2	2:J:2784:ALA:HB1	1.76	0.67
1:K:2891:ALA:HB3	1:K:2905:VAL:HG21	1.74	0.67
2:B:400:TYR:CZ	2:B:404:VAL:HG11	2.30	0.67
1:E:1399:ILE:HB	1:E:1401:TYR:CE2	2.30	0.67
2:F:1477:ILE:CD1	2:F:1532:PRO:HD3	2.25	0.67
1:I:2341:LEU:HD23	1:I:2348:PRO:HD2	1.77	0.67
1:C:710:LEU:HG	1:C:744:LEU:HD13	1.77	0.67
1:E:1361:LYS:O	1:E:1365:LEU:HD23	1.94	0.67
1:I:2522:LEU:HB3	2:J:2787:GLU:O	1.94	0.67
1:A:221:ALA:CB	1:K:3093:LEU:HD12	2.24	0.67
2:B:532:ILE:HD13	2:B:536:ILE:HG12	1.77	0.67
1:E:1269:LEU:O	1:E:1273:VAL:HG23	1.95	0.67
1:G:1878:LEU:HD21	1:G:1881:VAL:CG2	2.24	0.67
1:K:2920:ILE:HG12	1:K:2962:PHE:CZ	2.30	0.67
2:B:392:MET:HE1	2:B:400:TYR:CD2	2.30	0.67
2:B:523:LEU:HD22	1:C:792:ALA:HB2	1.75	0.67
2:D:1091:TYR:CE2	1:E:1357:GLU:HA	2.30	0.67
2:D:1102:ASN:O	2:D:1106:THR:HG23	1.95	0.67
2:F:1499:ALA:HB2	2:F:1525:ARG:CD	2.25	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:2442:ALA:HB1	1:I:2447:LEU:HD21	1.76	0.67
1:A:207:LYS:HE3	1:K:3075:ALA:HA	1.76	0.67
1:E:1162:GLY:O	1:E:1165:VAL:HG22	1.95	0.67
2:F:1541:ASP:OD2	2:F:1544:GLU:HB3	1.95	0.67
2:J:2789:GLU:O	2:J:2792:LYS:HG2	1.95	0.67
1:E:1232:ILE:HG13	1:E:1315:LEU:HD12	1.77	0.67
2:H:2236:LEU:O	1:I:2501:ASP:HB3	1.95	0.67
1:K:3083:LEU:CD2	1:K:3094:ARG:HD3	2.23	0.67
2:D:1088:ASN:HB2	2:D:1089:PRO:HD2	1.77	0.66
2:D:1091:TYR:HE2	1:E:1357:GLU:HG3	1.59	0.66
2:H:2079:THR:HG21	2:H:2130:VAL:CG1	2.25	0.66
1:K:2912:LEU:HD22	1:K:2919:PRO:HD3	1.76	0.66
1:K:2965:ILE:HG21	1:K:2969:TYR:HA	1.77	0.66
1:K:3001:VAL:O	1:K:3005:VAL:HG23	1.95	0.66
1:A:221:ALA:HB2	1:K:3093:LEU:CD1	2.25	0.66
1:C:786:GLU:O	1:C:789:SER:HB3	1.93	0.66
1:C:802:ALA:HB1	1:C:806:LEU:CB	2.25	0.66
1:G:1823:ILE:HD11	1:G:1827:TYR:CA	2.23	0.66
1:I:2522:LEU:HD23	2:J:2787:GLU:O	1.96	0.66
2:J:2700:VAL:HG13	2:J:2719:LEU:HD23	1.77	0.66
2:B:449:LEU:HD13	2:B:450:ILE:N	2.11	0.66
2:D:895:PHE:CE1	2:D:920:TYR:HB3	2.31	0.66
2:F:1528:ALA:HA	2:F:1531:LEU:CD2	2.25	0.66
2:F:1528:ALA:C	2:F:1531:LEU:HD23	2.20	0.66
2:H:2111:LEU:H	2:H:2111:LEU:CD2	2.07	0.66
2:J:2610:ARG:HG3	2:J:2631:PHE:O	1.95	0.66
1:K:2890:ARG:HG3	1:K:2905:VAL:O	1.96	0.66
1:A:196:ALA:O	1:A:199:VAL:HG22	1.94	0.66
1:A:224:ILE:O	1:A:228:LEU:HD13	1.94	0.66
2:B:514:LEU:HB2	2:B:521:ILE:CG1	2.26	0.66
2:D:1114:ILE:HG22	2:D:1115:TYR:N	2.10	0.66
1:E:1176:HIS:CD2	1:E:1208:ILE:HD12	2.31	0.66
1:A:100:ALA:HA	1:A:103:LEU:CD2	2.26	0.66
2:B:523:LEU:HD23	1:C:788:ASP:OD1	1.95	0.66
1:E:1236:ILE:HD12	1:E:1310:VAL:HG22	1.76	0.66
2:F:1662:TYR:HA	2:F:1665:LEU:HD23	1.76	0.66
2:F:1665:LEU:HD22	1:G:1931:SER:N	2.11	0.66
1:G:1805:LEU:HD11	1:G:1881:VAL:CG1	2.26	0.66
1:G:1836:THR:O	1:G:1840:LEU:HG	1.94	0.66
2:J:2670:ALA:HA	2:J:2673:LEU:HD21	1.76	0.66
1:E:1170:TYR:CE1	1:E:1206:PRO:HB2	2.30	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1812:VAL:CG1	1:G:1815:GLN:HG3	2.25	0.66
1:A:103:LEU:HA	1:A:106:ILE:HD12	1.76	0.66
1:A:207:LYS:HE3	1:K:3075:ALA:CA	2.26	0.66
1:E:1377:LEU:CB	2:F:1646:ALA:HB1	2.25	0.66
2:F:1466:PHE:HD1	2:F:1472:VAL:HG12	1.60	0.66
1:G:1860:SER:HB2	1:G:1883:LEU:HD13	1.77	0.66
2:H:2032:HIS:C	2:H:2033:ARG:HD2	2.20	0.66
2:J:2585:ALA:O	2:J:2588:VAL:HG22	1.96	0.66
1:A:43:ARG:HH11	1:A:43:ARG:CB	2.07	0.66
1:C:628:LEU:HD21	1:C:635:PRO:HG2	1.77	0.66
1:C:668:ARG:O	1:C:735:ILE:HD13	1.96	0.66
2:D:916:PRO:O	2:D:917:TRP:HB2	1.95	0.66
2:D:971:TYR:OH	2:D:1020:LEU:HB3	1.96	0.66
1:G:1955:GLU:HG2	2:H:2216:GLU:CB	2.23	0.66
1:K:2882:LEU:HD21	1:K:2909:THR:HB	1.78	0.66
1:K:2922:PHE:CG	1:K:2958:LEU:HD12	2.31	0.66
1:A:207:LYS:HD2	1:K:3075:ALA:CB	2.24	0.66
2:B:523:LEU:HB3	1:C:788:ASP:O	1.95	0.66
2:D:893:ILE:CG2	2:D:922:ILE:HG13	2.25	0.66
2:H:2172:LEU:N	2:H:2172:LEU:HD12	2.11	0.66
1:I:2312:TYR:CZ	1:I:2341:LEU:HD21	2.31	0.66
1:I:2479:ARG:NH1	1:I:2479:ARG:HA	2.11	0.66
2:J:2841:GLU:HG2	2:J:2842:SER:N	2.11	0.66
1:A:43:ARG:HB2	1:A:43:ARG:NH1	2.11	0.66
1:A:221:ALA:HB2	1:K:3093:LEU:HD12	1.78	0.66
1:C:582:LYS:HG3	1:C:583:PHE:N	2.10	0.66
1:E:1393:LEU:O	1:E:1393:LEU:HD23	1.96	0.66
2:F:1669:ARG:CD	1:G:1926:SER:HB2	2.26	0.66
1:I:2316:ALA:HA	1:I:2336:GLU:HG2	1.78	0.66
1:A:126:ILE:HD11	1:A:157:ARG:HD2	1.76	0.65
1:A:259:TYR:CE2	2:J:2829:LEU:HG	2.31	0.65
1:C:724:ASP:O	1:C:728:ARG:HG2	1.95	0.65
1:C:746:PHE:HB2	1:C:749:GLU:OE2	1.96	0.65
1:E:1260:VAL:HG22	1:E:1264:ILE:CD1	2.26	0.65
1:E:1380:LEU:C	2:F:1645:GLU:HB2	2.20	0.65
1:K:2912:LEU:CD2	1:K:2919:PRO:HG3	2.26	0.65
1:A:103:LEU:HD13	1:A:106:ILE:CD1	2.26	0.65
1:A:253:ARG:HD3	1:K:3109:SER:O	1.95	0.65
1:A:270:LEU:HD12	1:A:271:PRO:HD2	1.78	0.65
2:B:340:LEU:HD13	2:B:341:HIS:N	2.11	0.65
1:E:1177:ARG:CZ	1:E:1193:GLY:HA2	2.27	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1225:LYS:HD3	1:E:1225:LYS:C	2.21	0.65
2:F:1643:GLU:O	2:F:1646:ALA:HB3	1.96	0.65
1:G:1762:VAL:CG2	1:G:1816:LEU:HD21	2.26	0.65
2:H:2250:ALA:CB	1:I:2535:LEU:HD23	2.27	0.65
1:K:3102:ILE:HG13	1:K:3106:LEU:CD2	2.25	0.65
1:A:8:SER:HA	1:A:11:LYS:HZ1	1.61	0.65
1:A:39:PHE:CE1	1:A:65:ILE:HD11	2.28	0.65
1:C:806:LEU:HD23	1:C:806:LEU:C	2.22	0.65
2:D:915:ILE:N	2:D:919:GLN:HG3	2.11	0.65
2:F:1571:ARG:HB2	2:F:1598:ILE:HD11	1.77	0.65
1:G:1960:ILE:HD12	1:G:1960:ILE:O	1.96	0.65
1:E:1163:GLY:HA2	1:E:1166:ASN:OD1	1.95	0.65
1:E:1222:THR:O	1:E:1230:VAL:HG22	1.96	0.65
1:E:1296:LEU:HG	1:E:1307:LEU:HD11	1.77	0.65
1:I:2353:CYS:O	1:I:2381:ARG:HG3	1.96	0.65
2:J:2599:VAL:HG21	2:J:2621:ALA:O	1.96	0.65
2:J:2811:ARG:HB2	1:K:3072:ASP:OD2	1.96	0.65
2:D:972:GLU:HG2	2:D:973:GLU:N	2.11	0.65
2:D:1117:THR:HG22	2:D:1118:ALA:N	2.12	0.65
1:E:1332:GLN:HA	1:E:1332:GLN:HE21	1.61	0.65
1:A:174:THR:OG1	1:A:175:PHE:HA	1.95	0.65
2:D:893:ILE:HG22	2:D:922:ILE:HG13	1.78	0.65
2:D:895:PHE:CB	2:D:901:VAL:HA	2.26	0.65
2:F:1502:ARG:HG3	2:F:1547:LEU:CD2	2.26	0.65
2:F:1571:ARG:O	2:F:1574:VAL:HG12	1.96	0.65
2:B:325:ASN:ND2	2:B:328:GLY:H	1.94	0.65
2:D:1091:TYR:C	1:E:1360:SER:HB2	2.21	0.65
1:I:2458:THR:CG2	1:I:2463:PHE:HD2	2.02	0.65
2:B:431:GLN:O	2:B:435:LEU:HG	1.97	0.65
2:B:543:ILE:HD13	2:H:2256:ILE:HG22	1.77	0.65
2:H:2045:GLN:HA	2:H:2103:PRO:CB	2.27	0.65
2:H:2255:ARG:HH22	1:I:2541:ILE:HG22	1.62	0.65
2:H:2256:ILE:HD11	1:I:2542:THR:OG1	1.96	0.65
1:I:2321:VAL:HG11	1:I:2391:PHE:CD2	2.31	0.65
1:A:217:ASP:OD2	1:K:3097:GLU:HB2	1.96	0.65
1:G:1762:VAL:HB	1:G:1816:LEU:HD21	1.77	0.65
1:A:61:VAL:HG23	1:A:62:GLN:HG3	1.78	0.65
1:A:218:SER:HB2	1:K:3090:LEU:C	2.21	0.65
1:E:1200:ILE:HB	1:E:1204:GLN:OE1	1.97	0.65
2:H:2211:VAL:O	2:H:2214:GLU:HG3	1.97	0.65
1:I:2372:VAL:CG1	1:I:2457:LEU:HD21	2.27	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:2398:TYR:OH	1:I:2447:LEU:HD12	1.96	0.65
1:I:2519:LEU:HD22	2:J:2788:ALA:HB3	1.79	0.65
2:B:459:LEU:H	2:B:459:LEU:CD2	2.10	0.64
1:C:598:LEU:N	1:C:598:LEU:HD23	2.12	0.64
2:F:1460:GLY:O	2:F:1497:ILE:HG22	1.97	0.64
2:F:1566:GLN:HA	2:F:1566:GLN:HE21	1.61	0.64
2:F:1665:LEU:CD2	1:G:1927:ALA:O	2.45	0.64
1:I:2435:SER:CA	1:I:2452:VAL:HG11	2.24	0.64
2:J:2704:PHE:CE2	2:J:2708:GLN:HB3	2.32	0.64
1:A:122:ILE:HG13	1:A:123:THR:N	2.11	0.64
2:B:320:ARG:CD	2:B:386:ALA:HB1	2.26	0.64
1:C:809:LEU:HB2	2:D:1078:ALA:HB2	1.78	0.64
2:D:1095:ARG:CG	1:E:1356:ALA:HB1	2.25	0.64
2:F:1538:LEU:O	2:F:1538:LEU:HD13	1.97	0.64
1:K:2981:ILE:CD1	1:K:3009:LEU:HD23	2.27	0.64
2:B:520:TYR:CA	1:C:789:SER:HB2	2.27	0.64
1:E:1268:ILE:HG13	1:E:1269:LEU:N	2.11	0.64
1:I:2376:LEU:HD21	1:I:2454:LEU:HG	1.78	0.64
1:A:37:VAL:HG22	1:A:65:ILE:HB	1.80	0.64
1:A:121:SER:O	1:A:124:THR:HG22	1.97	0.64
1:A:144:GLU:HG3	1:A:145:LEU:CD2	2.28	0.64
2:B:331:GLN:NE2	2:B:331:GLN:HA	2.11	0.64
1:C:827:ASN:HD21	2:D:1110:SER:CA	2.11	0.64
2:D:1094:LEU:HG	1:E:1363:ALA:CB	2.26	0.64
1:E:1217:ASN:OD1	1:E:1219:PRO:HD3	1.97	0.64
1:E:1245:LEU:C	1:E:1245:LEU:HD13	2.23	0.64
2:J:2793:MET:HE3	1:K:3066:ILE:CD1	2.27	0.64
1:K:3025:LEU:C	1:K:3025:LEU:HD12	2.23	0.64
1:K:3053:PHE:HB3	1:K:3057:LYS:NZ	2.11	0.64
2:B:364:SER:O	2:B:376:ILE:HD13	1.97	0.64
1:C:810:ARG:HB3	2:D:1071:ALA:HB1	1.79	0.64
1:E:1322:THR:O	1:E:1325:VAL:HG22	1.96	0.64
2:F:1543:GLU:HG3	2:F:1544:GLU:N	2.13	0.64
2:H:2223:LEU:O	2:H:2227:LEU:HG	1.98	0.64
2:D:1091:TYR:CE2	1:E:1357:GLU:HG3	2.32	0.64
1:I:2378:ILE:HG23	1:I:2449:LEU:CD1	2.28	0.64
2:J:2669:ASN:O	2:J:2673:LEU:HD22	1.97	0.64
2:J:2673:LEU:HB2	2:J:2674:PRO:HD3	1.80	0.64
2:J:2685:GLU:HG3	2:J:2686:GLU:H	1.63	0.64
1:K:3029:THR:HG22	1:K:3030:PHE:C	2.23	0.64
1:C:607:ALA:HB3	1:C:621:VAL:HG11	1.78	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:825:SER:OG	2:D:1110:SER:HB3	1.97	0.64
2:D:1113:ARG:O	2:D:1114:ILE:HD13	1.97	0.64
1:E:1221:ILE:HG23	1:E:1231:ASN:ND2	2.12	0.64
1:E:1272:VAL:HG12	1:E:1276:PHE:CE2	2.32	0.64
1:G:1951:LEU:CD2	1:G:1954:LEU:HD12	2.25	0.64
2:H:2109:LEU:HD21	2:H:2117:VAL:HG11	1.79	0.64
1:I:2544:LEU:HD12	1:I:2544:LEU:N	2.12	0.64
1:K:2970:ASP:O	1:K:2974:LEU:HD23	1.98	0.64
2:F:1599:THR:HG22	2:F:1600:GLU:OE1	1.98	0.64
2:J:2798:LEU:HD11	2:J:2805:ILE:HG12	1.78	0.64
1:A:242:GLU:OE2	2:B:499:GLN:HB3	1.97	0.64
1:C:677:ILE:HD13	1:C:685:TYR:HE2	1.61	0.64
1:E:1190:ILE:H	1:E:1190:ILE:CD1	2.11	0.64
2:F:1669:ARG:HD3	1:G:1926:SER:HB2	1.80	0.64
1:G:1951:LEU:HB3	2:H:2216:GLU:HG2	1.80	0.64
2:H:2137:GLN:HB3	2:H:2141:GLN:HE21	1.62	0.64
2:H:2169:ILE:H	2:H:2169:ILE:CD1	2.10	0.64
2:H:2231:PRO:O	2:H:2234:ILE:HG13	1.98	0.64
1:K:2982:LEU:HD23	1:K:2986:VAL:CG2	2.28	0.64
2:D:1054:GLN:O	2:D:1057:VAL:HG22	1.98	0.64
1:G:1807:ILE:HG13	1:G:1878:LEU:HD11	1.80	0.64
2:B:421:ASN:OD1	2:B:424:GLN:HG2	1.97	0.63
1:E:1261:LEU:HD13	1:E:1261:LEU:O	1.98	0.63
2:F:1418:ASN:C	2:F:1419:LEU:HD22	2.23	0.63
2:J:2807:LEU:CB	1:K:3076:ALA:HB2	2.27	0.63
1:C:827:ASN:HD21	2:D:1110:SER:HB2	1.62	0.63
1:G:1770:LEU:HD22	1:G:1770:LEU:N	2.14	0.63
2:H:2096:ARG:CG	2:H:2163:ILE:HD11	2.27	0.63
1:I:2447:LEU:C	1:I:2447:LEU:HD22	2.23	0.63
1:A:5:VAL:O	1:A:9:ILE:HG12	1.99	0.63
2:B:320:ARG:HD2	2:B:355:ILE:CD1	2.21	0.63
2:D:1117:THR:HG22	2:D:1118:ALA:H	1.61	0.63
2:F:1662:TYR:O	2:F:1665:LEU:HD23	1.99	0.63
1:G:1745:ALA:HA	1:G:1765:GLU:CD	2.23	0.63
1:G:1932:LYS:HD2	1:G:1936:LEU:HD11	1.80	0.63
1:G:1951:LEU:CD1	2:H:2216:GLU:HG3	2.26	0.63
1:I:2512:LEU:HD13	1:I:2523:ARG:HD3	1.79	0.63
2:J:2590:TYR:O	2:J:2594:GLU:HG3	1.97	0.63
1:A:36:ALA:HB3	1:A:50:VAL:HG12	1.79	0.63
1:A:165:LEU:HD21	1:A:168:VAL:HB	1.79	0.63
1:A:217:ASP:HB3	1:K:3093:LEU:HD22	1.80	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:662:THR:HG22	1:C:742:THR:O	1.99	0.63
2:H:2086:MET:HB2	2:H:2174:PHE:HZ	1.63	0.63
2:H:2109:LEU:CD2	2:H:2117:VAL:HG13	2.28	0.63
2:J:2670:ALA:HA	2:J:2673:LEU:CD2	2.28	0.63
1:K:2985:VAL:HG21	1:K:3005:VAL:HG22	1.81	0.63
1:A:239:ARG:CG	2:B:500:ALA:HB1	2.28	0.63
2:D:967:LEU:HD13	2:D:967:LEU:O	1.98	0.63
2:D:1072:GLU:O	2:D:1075:ALA:HB3	1.99	0.63
2:F:1558:VAL:HG21	2:F:1578:ILE:CG2	2.29	0.63
1:I:2398:TYR:OH	1:I:2445:PHE:HB3	1.99	0.63
1:I:2492:LYS:HG2	1:I:2496:ILE:HD11	1.81	0.63
1:A:36:ALA:HB3	1:A:50:VAL:HG11	1.79	0.63
1:A:90:ILE:HD13	1:A:90:ILE:N	2.13	0.63
1:C:810:ARG:HB2	2:D:1071:ALA:HB1	1.81	0.63
1:E:1370:LEU:HD21	1:E:1378:ILE:HB	1.81	0.63
2:H:2105:MET:SD	2:H:2161:SER:HB2	2.38	0.63
1:I:2442:ALA:HB1	1:I:2447:LEU:HD22	1.81	0.63
1:A:110:ILE:HG13	1:A:114:TYR:CB	2.28	0.63
2:D:888:GLY:HA2	2:D:909:GLU:CG	2.19	0.63
2:F:1665:LEU:HD12	2:F:1665:LEU:C	2.24	0.63
1:I:2383:VAL:HG22	1:I:2446:GLY:O	1.99	0.63
1:K:2891:ALA:O	1:K:2905:VAL:HG22	1.98	0.63
1:K:3086:ALA:HB1	1:K:3090:LEU:HB2	1.79	0.63
2:D:963:MET:SD	2:D:967:LEU:HB3	2.38	0.63
1:E:1398:ASN:ND2	2:F:1682:GLN:HG2	2.14	0.63
2:F:1502:ARG:HD3	2:F:1503:LYS:N	2.14	0.63
1:I:2349:ILE:HD11	1:I:2351:PHE:CZ	2.33	0.63
1:I:2403:LEU:HD23	1:I:2403:LEU:O	1.98	0.63
2:J:2793:MET:HG3	1:K:3066:ILE:CD1	2.26	0.63
1:K:2893:ILE:HG23	1:K:2917:GLN:HG2	1.81	0.63
1:A:32:ALA:HA	1:A:52:GLU:CG	2.29	0.63
2:D:893:ILE:HG23	2:D:922:ILE:CD1	2.29	0.63
2:D:947:ILE:HG13	2:D:1027:ILE:HG23	1.80	0.63
1:G:1782:CYS:O	1:G:1810:ARG:HG3	1.99	0.63
1:G:1803:ILE:HD11	1:G:1883:LEU:HB3	1.81	0.63
1:I:2515:ALA:HB1	1:I:2519:LEU:HB2	1.80	0.63
2:J:2804:TYR:OH	1:K:3070:GLU:HB2	1.98	0.63
1:C:782:ILE:O	1:C:786:GLU:HG3	1.98	0.62
2:D:947:ILE:HD11	2:D:1027:ILE:HG13	1.81	0.62
2:H:2176:ARG:H	2:H:2176:ARG:HD2	1.64	0.62
1:I:2380:PHE:CD1	1:I:2449:LEU:HA	2.34	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:2542:THR:HG22	1:I:2543:TYR:N	2.13	0.62
2:J:2662:LEU:HD13	2:J:2740:ILE:HG22	1.79	0.62
2:J:2704:PHE:HE2	2:J:2712:GLN:CB	2.12	0.62
2:B:444:ALA:HA	2:B:447:PHE:HD2	1.63	0.62
2:B:449:LEU:HD13	2:B:449:LEU:C	2.24	0.62
1:C:667:PHE:HB3	1:C:736:LEU:HA	1.79	0.62
1:E:1222:THR:HG22	1:E:1223:GLY:N	2.14	0.62
1:G:1793:THR:O	1:G:1801:VAL:HG22	1.99	0.62
2:J:2578:ALA:O	2:J:2582:LEU:HD13	1.99	0.62
1:K:2954:VAL:CG2	1:K:2957:GLN:HB3	2.29	0.62
1:A:235:LEU:HD21	2:B:501:GLU:CA	2.13	0.62
2:B:276:ASN:C	2:B:277:LEU:HD12	2.24	0.62
1:G:1944:ALA:CB	1:G:1948:LEU:HB2	2.29	0.62
1:G:1951:LEU:HB3	2:H:2216:GLU:C	2.23	0.62
2:H:2150:ARG:CA	2:H:2167:VAL:HG21	2.26	0.62
2:H:2236:LEU:HB2	1:I:2505:ALA:CB	2.27	0.62
2:J:2793:MET:CE	1:K:3066:ILE:HD11	2.29	0.62
1:K:2982:LEU:O	1:K:2986:VAL:HG23	1.98	0.62
2:B:449:LEU:HD13	2:B:450:ILE:C	2.24	0.62
1:C:831:LEU:HD23	1:C:831:LEU:N	2.15	0.62
2:F:1642:ALA:C	2:F:1645:GLU:HG2	2.23	0.62
2:H:2173:SER:CB	2:H:2178:TYR:HB2	2.29	0.62
1:I:2515:ALA:CB	1:I:2519:LEU:HB2	2.28	0.62
1:A:11:LYS:HA	1:A:14:LEU:CD2	2.30	0.62
1:A:12:PHE:O	1:A:16:LEU:HD13	1.99	0.62
1:A:127:LEU:C	1:A:127:LEU:HD13	2.25	0.62
1:A:142:GLN:HA	1:A:142:GLN:NE2	2.15	0.62
1:E:1157:ALA:O	1:E:1160:VAL:HG12	1.99	0.62
1:E:1206:PRO:C	1:E:1207:ILE:HD12	2.24	0.62
1:E:1380:LEU:HB3	2:F:1645:GLU:O	2.00	0.62
1:G:1883:LEU:N	1:G:1883:LEU:HD12	2.14	0.62
1:K:2892:VAL:HB	1:K:2922:PHE:HZ	1.64	0.62
1:K:2922:PHE:CD2	1:K:2958:LEU:HG	2.35	0.62
1:A:99:VAL:O	1:A:103:LEU:HD22	1.98	0.62
2:B:471:ALA:O	2:B:474:VAL:HG12	1.99	0.62
1:C:585:LEU:HD23	1:C:585:LEU:O	1.99	0.62
1:E:1317:PHE:CB	1:E:1320:GLU:HB2	2.29	0.62
1:G:1785:ARG:C	1:G:1808:LEU:HD12	2.24	0.62
2:J:2807:LEU:CB	1:K:3073:SER:HA	2.29	0.62
2:B:376:ILE:HD13	2:B:376:ILE:H	1.65	0.62
2:D:933:ILE:CG2	2:D:980:VAL:HG11	2.27	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:969:LEU:HD12	2:D:969:LEU:N	2.13	0.62
2:D:1064:GLN:O	2:D:1068:ILE:HD13	2.00	0.62
1:E:1181:PHE:HE2	1:E:1249:PHE:HE2	1.48	0.62
1:G:1823:ILE:CD1	1:G:1831:VAL:HG23	2.29	0.62
2:H:2236:LEU:HD13	1:I:2505:ALA:HB1	1.81	0.62
2:J:2704:PHE:CD2	2:J:2708:GLN:HB3	2.35	0.62
1:K:2922:PHE:CE2	1:K:2958:LEU:HB3	2.34	0.62
1:K:2985:VAL:O	1:K:2988:ARG:HG2	1.98	0.62
1:A:92:LEU:HD13	1:A:170:LEU:HD23	1.81	0.62
2:D:1125:LEU:HD23	2:D:1126:GLN:N	2.15	0.62
2:F:1692:LEU:N	2:F:1692:LEU:HD12	2.13	0.62
1:G:1834:SER:O	1:G:1837:THR:HG22	1.98	0.62
2:H:2045:GLN:HA	2:H:2103:PRO:HB3	1.80	0.62
1:I:2402:VAL:HG23	1:I:2403:LEU:N	2.15	0.62
1:A:203:ALA:O	1:A:206:GLN:HG2	2.00	0.62
1:A:238:LEU:HD22	2:B:507:ALA:HA	1.82	0.62
2:B:335:ILE:H	2:B:335:ILE:CD1	2.11	0.62
2:B:497:ILE:HG13	2:B:498:VAL:N	2.14	0.62
2:B:529:ALA:O	2:B:532:ILE:HG22	2.00	0.62
2:D:947:ILE:CG1	2:D:1027:ILE:HG23	2.29	0.62
1:E:1221:ILE:N	1:E:1221:ILE:HD12	2.14	0.62
1:E:1221:ILE:HG13	1:E:1231:ASN:ND2	2.15	0.62
1:E:1380:LEU:HB3	2:F:1646:ALA:CA	2.30	0.62
2:F:1508:THR:HG22	2:F:1509:GLY:N	2.14	0.62
2:F:1665:LEU:HD13	1:G:1931:SER:N	2.15	0.62
2:H:2219:ALA:HA	1:I:2491:LYS:CD	2.30	0.62
1:I:2522:LEU:HD12	1:I:2522:LEU:O	1.99	0.62
2:J:2664:VAL:HG23	2:J:2738:VAL:HG22	1.80	0.62
1:A:266:VAL:HG22	1:A:267:LEU:N	2.13	0.62
1:C:745:THR:HB	1:C:746:PHE:CA	2.29	0.62
2:B:413:LEU:O	2:B:417:VAL:HG13	1.99	0.61
2:D:893:ILE:O	2:D:922:ILE:HG12	1.98	0.61
2:F:1576:LEU:HD13	2:F:1576:LEU:C	2.25	0.61
1:G:1843:VAL:HG11	1:G:1863:VAL:HG22	1.80	0.61
1:A:80:THR:HG21	1:A:127:LEU:CD1	2.29	0.61
2:B:477:GLN:O	2:B:480:GLN:HG2	1.99	0.61
2:D:1008:ARG:CA	2:D:1025:VAL:HG21	2.28	0.61
1:E:1381:ARG:HH11	1:E:1382:LYS:HA	1.65	0.61
2:J:2614:VAL:HG11	2:J:2677:TYR:CD1	2.35	0.61
1:C:799:LEU:HD23	1:C:806:LEU:HD22	1.83	0.61
2:F:1538:LEU:HG	2:F:1542:TYR:HB2	1.81	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:1586:ALA:HB1	2:F:1591:LEU:HG	1.81	0.61
2:F:1656:LEU:C	2:F:1656:LEU:HD12	2.24	0.61
2:H:2227:LEU:HD13	2:H:2234:ILE:CG2	2.30	0.61
1:A:174:THR:HG22	1:A:179:PHE:CD1	2.35	0.61
2:D:1093:LYS:O	2:D:1096:LYS:HB3	1.99	0.61
1:E:1380:LEU:HB3	2:F:1646:ALA:N	2.14	0.61
2:F:1455:PHE:CZ	2:F:1457:VAL:HG23	2.34	0.61
1:G:1962:TYR:HE1	1:G:1966:ARG:CZ	2.13	0.61
2:H:2236:LEU:HB3	1:I:2501:ASP:O	1.99	0.61
2:J:2665:LEU:N	2:J:2665:LEU:HD22	2.15	0.61
2:J:2806:LYS:O	2:J:2806:LYS:HD3	2.00	0.61
1:K:2860:VAL:O	1:K:2864:ILE:HG22	1.99	0.61
1:K:3071:GLY:HA2	1:K:3074:LYS:HE2	1.81	0.61
1:A:235:LEU:O	2:B:504:ALA:HB2	2.00	0.61
1:C:665:ILE:HG22	1:C:667:PHE:CD1	2.36	0.61
1:C:728:ARG:HA	1:C:728:ARG:HH11	1.64	0.61
2:H:2033:ARG:HD3	2:H:2068:ILE:CG1	2.29	0.61
1:I:2376:LEU:CD2	1:I:2454:LEU:HG	2.28	0.61
1:K:2985:VAL:HG23	1:K:2986:VAL:N	2.15	0.61
1:K:3086:ALA:CB	1:K:3090:LEU:HB2	2.30	0.61
1:A:214:ALA:CB	1:K:3094:ARG:HB2	2.30	0.61
1:C:673:GLN:OE1	1:C:673:GLN:HA	2.00	0.61
1:E:1344:LYS:HG3	1:E:1345:ALA:N	2.15	0.61
2:F:1555:LEU:HD23	2:F:1555:LEU:C	2.25	0.61
2:F:1563:ASN:O	2:F:1567:LEU:HD23	1.99	0.61
1:G:1745:ALA:HA	1:G:1765:GLU:CG	2.30	0.61
1:I:2457:LEU:HD13	1:I:2457:LEU:C	2.26	0.61
1:A:61:VAL:HG23	1:A:62:GLN:N	2.15	0.61
2:B:351:ILE:N	2:B:351:ILE:HD12	2.15	0.61
2:B:545:LEU:HD13	2:B:545:LEU:C	2.26	0.61
1:E:1380:LEU:HD12	2:F:1645:GLU:CB	2.30	0.61
1:G:1749:ALA:HB3	1:G:1763:VAL:HG11	1.79	0.61
1:G:1816:LEU:HD23	1:G:1817:PRO:CD	2.31	0.61
1:G:1941:LEU:HD21	1:G:1949:ILE:HG13	1.82	0.61
2:H:2233:TYR:CE2	1:I:2499:GLU:HG3	2.35	0.61
2:J:2672:GLU:CG	2:J:2732:SER:HB2	2.29	0.61
2:B:495:GLN:O	2:B:498:VAL:HG22	1.99	0.61
1:C:827:ASN:ND2	2:D:1110:SER:HB2	2.16	0.61
2:D:947:ILE:HD11	2:D:1027:ILE:CG2	2.31	0.61
2:F:1499:ALA:CA	2:F:1525:ARG:HG2	2.31	0.61
2:F:1526:PRO:HB3	2:F:1542:TYR:OH	2.01	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1941:LEU:HD21	1:G:1949:ILE:CD1	2.29	0.61
1:A:207:LYS:HE3	1:K:3075:ALA:N	2.15	0.61
1:A:228:LEU:CD2	1:A:236:ILE:HA	2.31	0.61
2:B:524:ARG:CB	1:C:785:ALA:HB1	2.31	0.61
1:C:765:GLU:O	1:C:768:ARG:HB3	2.00	0.61
1:E:1268:ILE:HD13	1:E:1296:LEU:HD13	1.83	0.61
2:F:1474:GLN:HA	2:F:1532:PRO:CB	2.31	0.61
2:F:1555:LEU:O	2:F:1555:LEU:HD23	2.00	0.61
1:G:1839:ILE:CG2	1:G:1867:LEU:HD21	2.25	0.61
2:J:2619:ILE:H	2:J:2619:ILE:CD1	2.10	0.61
2:J:2807:LEU:O	1:K:3072:ASP:HB3	2.00	0.61
1:K:2856:MET:N	1:K:2856:MET:HE3	2.16	0.61
1:K:2922:PHE:CZ	1:K:2958:LEU:HB3	2.35	0.61
1:K:2958:LEU:HD13	1:K:2961:ILE:HD11	1.82	0.61
1:C:807:ILE:O	1:C:810:ARG:HG2	2.00	0.61
2:H:2102:LEU:HB2	2:H:2103:PRO:HD3	1.83	0.61
2:H:2219:ALA:HA	1:I:2491:LYS:CE	2.31	0.61
2:H:2230:ASN:OD1	2:H:2231:PRO:HD2	2.01	0.61
1:K:3059:GLU:HA	1:K:3062:LYS:HE2	1.82	0.61
1:C:633:GLN:N	1:C:633:GLN:HE21	1.99	0.60
2:D:987:VAL:HG23	2:D:988:VAL:N	2.16	0.60
1:E:1373:ALA:CB	1:E:1377:LEU:HB2	2.30	0.60
2:F:1499:ALA:HA	2:F:1525:ARG:HG2	1.82	0.60
1:I:2364:THR:CG2	1:I:2415:VAL:HG11	2.30	0.60
1:I:2411:LEU:HD23	1:I:2411:LEU:O	2.00	0.60
1:K:2982:LEU:HD23	1:K:2986:VAL:HG23	1.83	0.60
1:A:231:ALA:HB3	1:A:235:LEU:CG	2.31	0.60
2:D:1125:LEU:HD23	2:D:1125:LEU:C	2.26	0.60
2:F:1417:GLN:HE21	2:F:1419:LEU:HD21	1.66	0.60
2:H:2219:ALA:HA	1:I:2491:LYS:HE2	1.83	0.60
1:I:2373:ASN:HB2	1:I:2459:PHE:HB3	1.83	0.60
1:I:2519:LEU:HD22	2:J:2788:ALA:HB2	1.78	0.60
1:C:628:LEU:CD2	1:C:635:PRO:HG2	2.31	0.60
1:C:751:THR:HG23	1:C:752:GLU:N	2.16	0.60
2:D:848:LEU:HD13	2:D:849:LYS:N	2.17	0.60
1:E:1177:ARG:NE	1:E:1193:GLY:HA2	2.16	0.60
1:G:1818:ARG:O	1:G:1821:THR:HG22	2.01	0.60
1:G:1937:ILE:HD11	2:H:2209:LYS:CE	2.29	0.60
2:H:2098:ASN:HD22	2:H:2101:GLU:HG2	1.65	0.60
1:I:2378:ILE:HG23	1:I:2449:LEU:HD13	1.84	0.60
2:J:2655:LEU:HG	2:J:2655:LEU:O	2.00	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:2743:LEU:HD12	2:J:2743:LEU:N	2.16	0.60
2:B:469:VAL:O	2:B:473:GLN:HG2	2.02	0.60
2:D:932:LYS:HE3	2:D:950:ARG:HB2	1.84	0.60
2:D:1098:ARG:HB2	1:E:1359:ASP:OD2	2.01	0.60
1:E:1176:HIS:HD2	1:E:1208:ILE:HD12	1.64	0.60
1:E:1381:ARG:HG3	2:F:1642:ALA:CB	2.32	0.60
2:F:1656:LEU:HD12	2:F:1656:LEU:O	2.01	0.60
1:G:1803:ILE:HD11	1:G:1883:LEU:CD2	2.31	0.60
1:G:1886:LEU:HD23	1:G:1886:LEU:N	2.10	0.60
2:H:2031:GLY:O	2:H:2068:ILE:HB	2.00	0.60
2:H:2079:THR:HG22	2:H:2080:GLY:N	2.15	0.60
2:H:2094:LEU:HD22	2:H:2094:LEU:N	2.16	0.60
1:A:217:ASP:HB3	1:K:3093:LEU:O	2.00	0.60
2:D:937:THR:O	2:D:945:VAL:HG22	2.01	0.60
1:E:1381:ARG:CB	2:F:1642:ALA:HB1	2.31	0.60
1:G:1807:ILE:CG1	1:G:1878:LEU:HD11	2.31	0.60
1:I:2523:ARG:HB3	2:J:2784:ALA:HB1	1.82	0.60
1:K:2954:VAL:CG1	1:K:3019:ILE:HG12	2.31	0.60
1:C:756:ALA:O	1:C:759:VAL:HG12	2.02	0.60
1:E:1317:PHE:HB3	1:E:1320:GLU:CB	2.31	0.60
1:G:1805:LEU:HD11	1:G:1881:VAL:HG12	1.83	0.60
2:H:2013:GLY:O	2:H:2017:VAL:HG23	2.02	0.60
2:H:2184:ALA:O	2:H:2187:VAL:HG22	2.02	0.60
1:I:2350:ILE:N	1:I:2350:ILE:HD12	2.16	0.60
2:J:2807:LEU:HB2	1:K:3076:ALA:HB2	1.83	0.60
1:C:779:LYS:O	1:C:783:ILE:HD13	2.02	0.60
2:F:1477:ILE:HD11	2:F:1532:PRO:HG3	1.84	0.60
1:E:1188:GLN:OE1	1:E:1190:ILE:HD11	2.02	0.60
1:E:1233:THR:HG22	1:E:1314:HIS:HB2	1.84	0.60
2:H:2240:ARG:HB2	1:I:2501:ASP:HB2	1.83	0.60
1:I:2321:VAL:CG1	1:I:2349:ILE:HG12	2.31	0.60
1:I:2531:ILE:O	1:I:2534:GLN:HG2	2.02	0.60
2:J:2808:ARG:CD	1:K:3069:ALA:HB1	2.32	0.60
1:A:146:VAL:HG13	1:A:170:LEU:HD11	1.83	0.60
1:A:203:ALA:HA	1:A:206:GLN:HE21	1.66	0.60
1:A:238:LEU:HG	1:A:241:LEU:CB	2.30	0.60
2:B:514:LEU:HD13	2:B:514:LEU:C	2.27	0.60
1:E:1260:VAL:O	1:E:1264:ILE:HD13	2.02	0.60
1:E:1378:ILE:HD12	1:E:1381:ARG:HD2	1.83	0.60
1:G:1769:PHE:C	1:G:1770:LEU:HD22	2.26	0.60
2:J:2798:LEU:HD11	2:J:2805:ILE:HA	1.84	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:92:LEU:CD1	1:A:170:LEU:HD23	2.32	0.60
1:A:243:ALA:O	1:A:247:ILE:HG12	2.02	0.60
2:B:320:ARG:NE	2:B:386:ALA:HB1	2.16	0.60
1:C:607:ALA:O	1:C:621:VAL:HG12	2.02	0.60
1:E:1233:THR:O	1:E:1313:THR:HG22	2.02	0.60
1:E:1410:LEU:HD12	1:E:1410:LEU:N	2.17	0.60
2:F:1499:ALA:HA	2:F:1525:ARG:CG	2.32	0.60
1:G:1721:SER:HA	1:G:1724:LYS:NZ	2.17	0.60
1:I:2515:ALA:CB	1:I:2519:LEU:HG	2.31	0.60
2:J:2733:LEU:HD12	2:J:2735:LEU:HD23	1.84	0.60
1:K:2970:ASP:CA	1:K:2974:LEU:HD23	2.32	0.60
1:A:266:VAL:HG22	1:A:267:LEU:H	1.66	0.59
1:E:1341:VAL:O	1:E:1344:LYS:HG2	2.02	0.59
1:I:2359:ASN:OD1	1:I:2377:ARG:HD2	2.01	0.59
2:J:2841:GLU:HG2	2:J:2842:SER:O	2.02	0.59
2:B:389:LEU:HB2	2:B:390:PRO:HD3	1.84	0.59
1:C:826:ARG:HD3	2:D:1109:THR:HG21	1.84	0.59
2:D:923:ILE:HD13	2:D:923:ILE:C	2.26	0.59
2:D:952:LEU:HD22	2:D:952:LEU:N	2.17	0.59
2:D:983:VAL:HG23	2:D:984:LEU:N	2.17	0.59
2:D:996:LEU:HD23	2:D:1003:VAL:HG21	1.84	0.59
1:E:1291:GLN:HE21	1:E:1291:GLN:HA	1.66	0.59
2:J:2693:VAL:HG13	2:J:2694:ASN:N	2.17	0.59
1:K:2965:ILE:HG21	1:K:2969:TYR:HB2	1.83	0.59
1:K:3030:PHE:HB2	1:K:3033:GLU:CB	2.23	0.59
1:A:215:GLU:HA	1:K:3090:LEU:CD1	2.32	0.59
2:D:887:GLU:HG3	2:D:890:HIS:HD2	1.67	0.59
2:D:1065:ARG:O	2:D:1069:VAL:HG23	2.02	0.59
1:G:1770:LEU:O	1:G:1772:PRO:HD3	2.01	0.59
1:G:1819:ILE:HD12	1:G:1827:TYR:HE1	1.64	0.59
2:H:2075:ILE:HD13	2:H:2122:VAL:HG13	1.81	0.59
2:H:2152:GLU:HA	2:H:2155:GLU:OE2	2.02	0.59
2:J:2711:THR:HG23	2:J:2712:GLN:HG2	1.84	0.59
1:A:127:LEU:O	1:A:127:LEU:HD13	2.02	0.59
1:A:207:LYS:CE	1:K:3075:ALA:HA	2.32	0.59
2:D:1114:ILE:HB	2:F:1682:GLN:O	2.02	0.59
2:F:1520:LEU:CD2	2:F:1598:ILE:HG22	2.32	0.59
2:F:1538:LEU:HG	2:F:1542:TYR:CB	2.32	0.59
2:F:1563:ASN:ND2	2:F:1565:SER:HB2	2.18	0.59
2:F:1643:GLU:HG3	2:F:1644:GLY:N	2.15	0.59
1:G:1733:GLY:O	1:G:1736:VAL:HG22	2.01	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1791:VAL:HG21	1:G:1840:LEU:HD12	1.85	0.59
1:G:1851:GLU:HG3	1:G:1855:GLN:HB2	1.84	0.59
1:A:142:GLN:HG3	1:A:142:GLN:O	2.03	0.59
1:C:689:VAL:HG13	1:C:690:LEU:N	2.18	0.59
1:C:757:LYS:O	1:C:761:GLN:HG3	2.01	0.59
1:E:1381:ARG:CG	2:F:1642:ALA:HB1	2.32	0.59
1:G:1887:THR:HG22	1:G:1892:PHE:HD1	1.65	0.59
2:H:2035:ILE:HG12	2:H:2103:PRO:HG3	1.84	0.59
2:H:2053:LEU:HD23	2:H:2053:LEU:O	2.02	0.59
2:H:2091:LEU:CD1	2:H:2093:VAL:HG23	2.28	0.59
2:B:404:VAL:HG13	2:B:405:LEU:N	2.18	0.59
1:C:628:LEU:HD12	1:C:628:LEU:N	2.18	0.59
1:C:717:VAL:O	1:C:721:VAL:HG23	2.02	0.59
2:D:951:VAL:HG12	2:D:1025:VAL:HG12	1.84	0.59
1:E:1261:LEU:HD13	1:E:1261:LEU:C	2.28	0.59
2:F:1579:ARG:O	2:F:1582:LEU:HG	2.02	0.59
2:F:1685:ILE:H	2:F:1685:ILE:CD1	2.11	0.59
2:F:1690:ASP:OD2	2:F:1692:LEU:HD11	2.02	0.59
1:K:2894:PHE:HD1	1:K:2920:ILE:CD1	2.14	0.59
1:K:3025:LEU:HD12	1:K:3025:LEU:O	2.02	0.59
2:F:1696:LEU:HD12	2:F:1696:LEU:N	2.18	0.59
2:F:1699:GLU:OE1	2:F:1699:GLU:HA	2.02	0.59
1:G:1812:VAL:HG13	1:G:1815:GLN:CB	2.24	0.59
2:H:2266:ASN:C	2:H:2267:LEU:HD12	2.28	0.59
1:A:110:ILE:HG12	1:A:111:GLY:N	2.17	0.59
2:B:413:LEU:HD13	2:B:413:LEU:C	2.27	0.59
2:B:474:VAL:HG13	2:B:475:ALA:N	2.18	0.59
1:C:694:THR:HG23	1:C:695:THR:N	2.18	0.59
2:D:947:ILE:HD12	2:D:1030:LEU:HD21	1.85	0.59
1:E:1213:SER:HB3	1:E:1239:ARG:CD	2.32	0.59
1:E:1370:LEU:HD11	1:E:1378:ILE:CG1	2.32	0.59
1:G:1789:VAL:HG23	1:G:1789:VAL:O	2.03	0.59
1:G:1941:LEU:HD11	1:G:1949:ILE:N	2.18	0.59
1:G:1944:ALA:HB3	1:G:1948:LEU:CD2	2.31	0.59
1:I:2481:ARG:O	1:I:2484:VAL:HG22	2.01	0.59
1:E:1269:LEU:HD23	1:E:1292:VAL:CG2	2.33	0.59
2:F:1486:ILE:CD1	2:F:1490:GLN:HB2	2.32	0.59
1:G:1841:LYS:O	1:G:1844:VAL:HG12	2.01	0.59
2:H:2096:ARG:HG3	2:H:2163:ILE:CD1	2.30	0.59
2:H:2195:ALA:O	2:H:2199:VAL:HG23	2.03	0.59
1:I:2341:LEU:HD12	1:I:2341:LEU:N	2.18	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:2519:LEU:HD21	2:J:2785:GLU:CA	2.29	0.59
2:B:444:ALA:HA	2:B:447:PHE:CE2	2.38	0.59
2:D:893:ILE:HG23	2:D:922:ILE:CG1	2.32	0.59
1:E:1144:ALA:HB1	1:E:1148:PHE:CE2	2.34	0.59
1:G:1724:LYS:HG2	1:G:1725:PHE:N	2.16	0.59
1:G:1762:VAL:HG23	1:G:1816:LEU:HD11	1.84	0.59
2:H:2142:ARG:O	2:H:2145:VAL:HG22	2.02	0.59
1:A:188:VAL:HG13	1:A:189:ALA:N	2.18	0.58
1:A:213:SER:HB2	1:K:3097:GLU:OE2	2.02	0.58
2:B:367:GLY:H	2:B:414:LYS:HE3	1.68	0.58
1:C:667:PHE:HB2	1:C:735:ILE:O	2.03	0.58
2:D:1094:LEU:HD23	1:E:1363:ALA:CB	2.33	0.58
2:D:1116:LEU:N	2:D:1116:LEU:HD12	2.18	0.58
1:E:1366:ILE:HG12	2:F:1639:ILE:HG13	1.84	0.58
1:G:1750:VAL:HG23	1:G:1816:LEU:HD12	1.85	0.58
2:H:2109:LEU:HD22	2:H:2113:TYR:CE1	2.38	0.58
2:H:2178:TYR:O	2:H:2182:VAL:HG23	2.02	0.58
1:I:2423:LEU:CD2	1:I:2457:LEU:HD21	2.33	0.58
2:J:2666:SER:HB2	2:J:2733:LEU:CD1	2.08	0.58
2:J:2709:LEU:CG	2:J:2743:LEU:HD23	2.33	0.58
2:B:540:GLN:C	2:J:2827:ILE:HG21	2.28	0.58
1:C:748:LYS:O	1:C:751:THR:HG22	2.03	0.58
1:G:1941:LEU:HD21	1:G:1949:ILE:HD12	1.84	0.58
1:G:1951:LEU:O	2:H:2216:GLU:HG2	2.02	0.58
2:H:2044:GLN:HG2	2:H:2047:THR:H	1.69	0.58
2:J:2697:LEU:O	2:J:2701:VAL:HG13	2.03	0.58
2:J:2704:PHE:CE2	2:J:2712:GLN:HB2	2.34	0.58
2:J:2741:THR:HG22	2:J:2742:GLU:N	2.17	0.58
1:K:3099:ALA:O	1:K:3102:ILE:HG22	2.02	0.58
1:A:110:ILE:CD1	1:A:114:TYR:HB3	2.33	0.58
1:A:235:LEU:HD23	2:B:504:ALA:HB3	1.84	0.58
2:B:523:LEU:O	1:C:788:ASP:HB3	2.03	0.58
1:C:802:ALA:HB2	1:C:806:LEU:HD13	1.84	0.58
1:G:1751:ILE:HG23	1:G:1775:GLN:HG3	1.84	0.58
2:H:2028:VAL:HG23	2:H:2051:GLU:CA	2.32	0.58
2:H:2048:ILE:HG13	2:H:2048:ILE:O	2.02	0.58
1:I:2519:LEU:HD13	1:I:2519:LEU:C	2.28	0.58
1:I:2551:LEU:C	1:I:2551:LEU:HD13	2.28	0.58
2:J:2820:ILE:HG23	2:J:2821:ALA:N	2.18	0.58
1:A:97:ARG:HG3	1:A:98:PRO:O	2.03	0.58
1:C:579:SER:O	1:C:582:LYS:HG2	2.04	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1199:LEU:HD22	1:E:1199:LEU:N	2.18	0.58
1:E:1236:ILE:HD13	1:E:1310:VAL:HG13	1.85	0.58
2:F:1504:ILE:CG2	2:F:1551:VAL:HG11	2.29	0.58
2:F:1520:LEU:CD1	2:F:1555:LEU:HD12	2.32	0.58
2:F:1663:ILE:HG23	2:F:1664:LYS:N	2.17	0.58
2:H:2037:PHE:HD2	2:H:2043:VAL:CG2	2.16	0.58
2:H:2242:ALA:HA	2:H:2245:ILE:HG12	1.85	0.58
1:I:2457:LEU:HD13	1:I:2457:LEU:O	2.03	0.58
1:I:2522:LEU:HD23	2:J:2791:ALA:N	2.17	0.58
2:J:2668:PRO:HB3	2:J:2676:MET:CE	2.33	0.58
1:K:3032:LYS:HB2	1:K:3032:LYS:NZ	2.16	0.58
1:A:215:GLU:CA	1:K:3090:LEU:HD11	2.34	0.58
2:B:344:ILE:HD12	2:B:344:ILE:N	2.18	0.58
1:E:1232:ILE:HG13	1:E:1315:LEU:CD1	2.33	0.58
2:F:1468:ARG:HB3	2:F:1489:PHE:CE1	2.39	0.58
1:I:2321:VAL:HG12	1:I:2349:ILE:CG1	2.33	0.58
1:I:2515:ALA:HB3	1:I:2519:LEU:CG	2.31	0.58
2:B:299:LEU:HD13	2:B:299:LEU:C	2.28	0.58
2:B:532:ILE:CD1	2:B:536:ILE:HG12	2.32	0.58
2:F:1558:VAL:HG23	2:F:1559:VAL:N	2.18	0.58
1:I:2380:PHE:HZ	1:I:2438:LEU:HD21	1.68	0.58
2:B:514:LEU:HB2	2:B:521:ILE:HG12	1.86	0.58
1:C:841:LEU:N	1:C:841:LEU:HD12	2.19	0.58
2:D:1008:ARG:CD	2:D:1025:VAL:HG22	2.31	0.58
2:F:1540:LEU:HD22	2:F:1540:LEU:N	2.18	0.58
2:F:1598:ILE:HG13	2:F:1598:ILE:O	2.01	0.58
1:G:1831:VAL:HG21	1:G:1874:PHE:CD2	2.38	0.58
1:A:94:ILE:CG2	1:A:165:LEU:HD13	2.30	0.58
1:A:228:LEU:HD23	1:A:236:ILE:HG12	1.85	0.58
2:B:277:LEU:HD12	2:B:277:LEU:N	2.18	0.58
1:C:827:ASN:HD21	2:D:1110:SER:CB	2.16	0.58
2:D:1092:ILE:HD13	2:D:1092:ILE:C	2.28	0.58
1:E:1198:PHE:C	1:E:1199:LEU:HD22	2.29	0.58
1:E:1234:LEU:HD11	1:E:1310:VAL:CG1	2.34	0.58
1:E:1380:LEU:HD22	1:E:1383:LEU:HB2	1.86	0.58
2:F:1504:ILE:O	2:F:1504:ILE:HG23	2.04	0.58
1:G:1970:ILE:HD12	1:G:1970:ILE:O	2.03	0.58
1:I:2316:ALA:HA	1:I:2336:GLU:CD	2.29	0.58
1:I:2358:ARG:HE	1:I:2358:ARG:CA	2.16	0.58
1:C:826:ARG:HG3	1:C:827:ASN:N	2.18	0.58
1:E:1143:MET:O	1:E:1146:LYS:HD2	2.04	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:1456:THR:HG22	2:F:1482:LEU:CD2	2.17	0.58
2:F:1512:ASP:O	2:F:1513:LEU:HB2	2.03	0.58
2:F:1543:GLU:HG3	2:F:1544:GLU:H	1.67	0.58
2:H:2089:ILE:HD13	2:H:2172:LEU:HA	1.86	0.58
1:I:2341:LEU:HD21	1:I:2348:PRO:HG2	1.86	0.58
1:I:2475:GLN:O	1:I:2478:GLU:HG3	2.03	0.58
2:J:2807:LEU:HB2	1:K:3073:SER:HA	1.85	0.58
1:A:126:ILE:HD11	1:A:157:ARG:CD	2.33	0.58
2:B:376:ILE:HD13	2:B:376:ILE:N	2.19	0.58
2:B:494:ARG:O	2:B:497:ILE:HG12	2.03	0.58
2:B:522:LYS:O	2:B:526:ILE:HD13	2.03	0.58
1:C:816:GLU:CG	1:C:820:TYR:HE1	2.17	0.58
1:E:1360:SER:O	1:E:1363:ALA:HB3	2.04	0.58
1:E:1384:GLU:HG3	2:F:1645:GLU:OE1	2.04	0.58
1:G:1836:THR:HG23	1:G:1837:THR:N	2.18	0.58
1:K:2864:ILE:HG23	1:K:2865:GLY:N	2.18	0.58
1:C:607:ALA:HB3	1:C:621:VAL:HG12	1.85	0.57
1:G:1827:TYR:OH	1:G:1876:LEU:HG	2.03	0.57
1:G:1951:LEU:HD12	2:H:2220:ALA:N	2.19	0.57
2:H:2096:ARG:NE	2:H:2163:ILE:HD11	2.18	0.57
2:H:2113:TYR:O	2:H:2117:VAL:HG22	2.04	0.57
2:H:2234:ILE:HD12	2:H:2234:ILE:C	2.29	0.57
1:I:2302:VAL:HG23	1:I:2303:ALA:N	2.18	0.57
2:J:2728:ALA:O	2:J:2731:PHE:HB2	2.03	0.57
2:J:2827:ILE:HD13	2:J:2827:ILE:N	2.18	0.57
2:B:409:VAL:HG13	2:B:410:ASN:N	2.18	0.57
1:C:697:ILE:HD13	1:C:725:LEU:HA	1.86	0.57
1:C:713:GLN:HG3	1:C:713:GLN:O	2.04	0.57
1:A:221:ALA:HA	1:K:3093:LEU:HD12	1.84	0.57
1:C:710:LEU:CG	1:C:744:LEU:HD13	2.33	0.57
2:D:911:LEU:HD12	2:D:911:LEU:N	2.19	0.57
1:E:1232:ILE:HD12	1:E:1232:ILE:N	2.19	0.57
2:F:1485:ARG:C	2:F:1485:ARG:HD3	2.29	0.57
1:G:1941:LEU:CD2	1:G:1949:ILE:HD12	2.34	0.57
2:J:2597:PHE:CD2	2:J:2627:ARG:HB2	2.39	0.57
1:E:1218:VAL:O	1:E:1218:VAL:HG13	2.04	0.57
2:F:1546:VAL:HG13	2:F:1547:LEU:N	2.18	0.57
2:F:1547:LEU:CB	2:F:1548:PRO:HD3	2.31	0.57
2:F:1642:ALA:HA	2:F:1645:GLU:HG3	1.86	0.57
2:H:2223:LEU:HD23	2:H:2237:ARG:CZ	2.34	0.57
1:I:2484:VAL:HG23	1:I:2485:GLU:N	2.19	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:2492:LYS:O	1:I:2496:ILE:HG13	2.04	0.57
1:K:2874:ALA:O	1:K:2877:VAL:HG12	2.04	0.57
1:C:606:ARG:NH1	1:C:671:ALA:HB1	2.19	0.57
2:D:1008:ARG:HB2	2:D:1025:VAL:CG2	2.34	0.57
1:E:1171:ASN:ND2	1:E:1196:THR:HG22	2.20	0.57
1:I:2464:THR:HG23	1:I:2465:GLU:N	2.18	0.57
1:K:2889:HIS:CD2	1:K:2923:ASP:HA	2.28	0.57
2:B:426:ILE:HG23	2:B:427:THR:N	2.19	0.57
1:C:791:ALA:HB2	2:D:1064:GLN:CG	2.32	0.57
1:C:809:LEU:HD22	1:C:812:LEU:HB3	1.84	0.57
1:E:1279:GLY:O	1:E:1282:ILE:HG12	2.04	0.57
1:I:2407:THR:HG23	1:I:2408:THR:N	2.19	0.57
1:I:2522:LEU:HB3	2:J:2788:ALA:CA	2.35	0.57
2:J:2593:ARG:O	2:J:2593:ARG:HD3	2.04	0.57
2:J:2646:ILE:HD13	2:J:2647:SER:O	2.04	0.57
2:J:2650:THR:O	2:J:2658:VAL:HG12	2.05	0.57
2:J:2710:ILE:N	2:J:2710:ILE:HD12	2.20	0.57
2:J:2740:ILE:CD1	2:J:2743:LEU:HD21	2.34	0.57
1:K:3083:LEU:HA	1:K:3090:LEU:HD22	1.87	0.57
2:B:554:LEU:HD22	2:B:554:LEU:N	2.20	0.57
2:F:1652:LEU:HA	1:G:1924:ILE:HD12	1.85	0.57
1:G:1951:LEU:HB3	2:H:2216:GLU:CB	2.34	0.57
1:I:2378:ILE:HG21	1:I:2380:PHE:CZ	2.39	0.57
2:J:2813:ALA:O	2:J:2816:ILE:HG22	2.04	0.57
1:A:255:ARG:O	2:J:2827:ILE:HD11	2.04	0.57
2:B:360:ARG:HD3	2:B:361:LYS:H	1.70	0.57
2:B:408:ILE:HG13	2:B:447:PHE:CZ	2.40	0.57
1:C:573:ALA:O	1:C:577:PHE:HD1	1.87	0.57
1:C:663:LEU:HG	1:C:698:LEU:HD22	1.87	0.57
2:D:1094:LEU:CD2	1:E:1363:ALA:HB2	2.34	0.57
2:F:1616:VAL:HG13	2:F:1617:ALA:N	2.18	0.57
1:G:1728:ALA:O	1:G:1731:VAL:HG22	2.04	0.57
1:G:1948:LEU:HD11	2:H:2214:GLU:CB	2.35	0.57
2:H:2122:VAL:HG13	2:H:2123:ASN:N	2.20	0.57
1:I:2522:LEU:HB3	2:J:2788:ALA:HA	1.87	0.57
1:K:2950:LEU:O	1:K:3020:LEU:HD12	2.05	0.57
2:B:413:LEU:O	2:B:413:LEU:HD13	2.05	0.57
2:D:907:LEU:HD13	2:D:908:ALA:H	1.66	0.57
2:H:2267:LEU:HD12	2:H:2267:LEU:N	2.20	0.57
2:J:2689:LEU:O	2:J:2693:VAL:HG12	2.05	0.57
2:J:2783:GLN:O	2:J:2787:GLU:HG2	2.05	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:2920:ILE:HD12	1:K:2920:ILE:N	2.20	0.57
1:K:3047:GLU:HA	1:K:3050:ARG:HD3	1.86	0.57
2:B:357:ALA:HB2	2:B:383:ARG:CD	2.34	0.57
2:D:933:ILE:HD12	2:D:977:PRO:HA	1.87	0.57
1:E:1188:GLN:HB3	1:E:1190:ILE:HD11	1.86	0.57
1:E:1203:VAL:HG23	1:E:1204:GLN:OE1	2.05	0.57
1:G:1778:ILE:N	1:G:1778:ILE:HD12	2.20	0.57
1:K:2970:ASP:HA	1:K:2974:LEU:CD2	2.33	0.57
2:B:527:ARG:HB2	1:C:788:ASP:HB2	1.87	0.56
2:D:947:ILE:HD11	2:D:1027:ILE:HG23	1.87	0.56
2:F:1613:ALA:O	2:F:1616:VAL:HG12	2.05	0.56
2:H:2057:ILE:N	2:H:2057:ILE:HD12	2.19	0.56
2:H:2096:ARG:HG3	2:H:2163:ILE:CG1	2.35	0.56
2:H:2271:SER:O	2:H:2272:PHE:HB2	2.04	0.56
1:I:2472:VAL:HG23	1:I:2473:ALA:N	2.18	0.56
1:A:144:GLU:HG3	1:A:145:LEU:N	2.20	0.56
1:C:746:PHE:HB2	1:C:749:GLU:OE1	2.03	0.56
1:E:1401:TYR:O	1:E:1402:LEU:HD23	2.05	0.56
2:F:1674:ILE:O	2:F:1677:THR:HG22	2.05	0.56
1:I:2299:ALA:O	1:I:2302:VAL:HG22	2.05	0.56
1:I:2402:VAL:O	1:I:2406:ILE:HD13	2.05	0.56
1:I:2552:LEU:HD13	1:I:2552:LEU:C	2.30	0.56
2:J:2798:LEU:CD1	2:J:2805:ILE:HG12	2.34	0.56
1:K:2883:TYR:HD1	1:K:2884:ASN:N	2.03	0.56
1:K:3083:LEU:HD13	1:K:3091:ILE:HG13	1.88	0.56
1:A:60:TRP:HD1	1:A:61:VAL:CG1	2.18	0.56
2:B:380:VAL:HG21	2:B:405:LEU:HD11	1.87	0.56
2:D:1061:LYS:HA	2:D:1064:GLN:HE22	1.66	0.56
2:D:1091:TYR:O	1:E:1360:SER:HB2	2.05	0.56
2:D:1094:LEU:O	2:D:1097:ILE:HG22	2.05	0.56
2:D:1115:TYR:C	2:D:1116:LEU:HD12	2.30	0.56
1:E:1216:ARG:HD3	1:E:1261:LEU:HD12	1.88	0.56
1:E:1236:ILE:HD11	1:E:1310:VAL:HG13	1.84	0.56
2:H:2001:PRO:HB3	2:H:2004:MET:HE3	1.87	0.56
1:I:2304:GLY:O	1:I:2307:VAL:HG12	2.05	0.56
1:I:2316:ALA:HA	1:I:2336:GLU:CG	2.35	0.56
2:J:2646:ILE:HG23	2:J:2646:ILE:O	2.04	0.56
1:K:2982:LEU:CD2	1:K:2986:VAL:HG21	2.36	0.56
1:A:174:THR:HB	1:A:175:PHE:CA	2.36	0.56
2:B:372:GLN:CD	2:B:422:ALA:HB2	2.30	0.56
2:B:461:PHE:CG	2:B:464:GLU:HB3	2.40	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:711:ILE:HG23	1:C:712:THR:N	2.19	0.56
2:F:1477:ILE:HD11	2:F:1532:PRO:CG	2.36	0.56
1:G:1750:VAL:CG2	1:G:1820:PHE:HZ	2.18	0.56
1:G:1955:GLU:HG3	2:H:2216:GLU:HB2	1.80	0.56
1:K:2998:ARG:HG3	1:K:2999:GLU:OE2	2.06	0.56
2:B:412:VAL:HG13	2:B:413:LEU:N	2.20	0.56
1:C:710:LEU:HD21	1:C:744:LEU:HD13	1.87	0.56
2:D:1027:ILE:N	2:D:1027:ILE:HD12	2.21	0.56
1:G:1869:GLU:OE1	1:G:1869:GLU:HA	2.05	0.56
1:G:1970:ILE:HD12	1:G:1970:ILE:C	2.30	0.56
2:H:2035:ILE:HD13	2:H:2035:ILE:C	2.30	0.56
2:H:2153:LEU:HD23	2:H:2164:LEU:CD1	2.35	0.56
1:I:2517:ASP:HA	1:I:2520:ILE:HD12	1.86	0.56
1:I:2519:LEU:HD21	2:J:2785:GLU:CB	2.36	0.56
2:J:2711:THR:HG23	2:J:2712:GLN:N	2.20	0.56
2:J:2800:LYS:O	2:J:2801:ASN:HB2	2.04	0.56
1:A:160:THR:HG23	1:A:161:PHE:CD1	2.41	0.56
2:F:1584:GLU:HA	2:F:1584:GLU:OE1	2.06	0.56
1:G:1871:ALA:HB1	1:G:1876:LEU:HB2	1.88	0.56
2:H:2129:VAL:HG12	2:H:2133:PHE:HE2	1.71	0.56
1:I:2307:VAL:HG13	1:I:2308:ASN:N	2.21	0.56
1:I:2341:LEU:HD23	1:I:2348:PRO:CD	2.35	0.56
1:I:2414:VAL:HG13	1:I:2415:VAL:N	2.19	0.56
2:J:2577:THR:HG23	2:J:2578:ALA:N	2.20	0.56
2:J:2724:LEU:HD23	2:J:2735:LEU:HD13	1.88	0.56
1:A:80:THR:O	1:A:88:VAL:HG12	2.06	0.56
1:A:199:VAL:HA	1:A:202:LYS:HG2	1.88	0.56
2:B:374:VAL:HG12	2:B:376:ILE:HG23	1.88	0.56
2:B:540:GLN:HA	2:B:540:GLN:NE2	2.17	0.56
2:F:1525:ARG:HD2	2:F:1594:ASP:CG	2.29	0.56
2:F:1582:LEU:HD21	2:F:1596:VAL:CG2	2.34	0.56
2:F:1599:THR:HG22	2:F:1600:GLU:N	2.20	0.56
2:F:1642:ALA:CA	2:F:1645:GLU:HG2	2.36	0.56
2:F:1685:ILE:O	2:F:1685:ILE:HG12	2.05	0.56
2:H:1991:LYS:HG3	2:H:1991:LYS:O	2.06	0.56
1:I:2360:VAL:HG13	1:I:2360:VAL:O	2.04	0.56
1:A:7:GLU:O	1:A:11:LYS:HD3	2.05	0.56
1:A:118:VAL:HG23	1:A:119:LEU:N	2.21	0.56
1:A:186:LYS:HA	1:A:186:LYS:HE3	1.88	0.56
1:C:734:LEU:N	1:C:734:LEU:HD22	2.20	0.56
2:F:1465:PHE:CD2	2:F:1478:LEU:HD11	2.41	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:1523:LEU:HD22	2:F:1523:LEU:N	2.20	0.56
1:G:1847:PHE:CE2	1:G:1855:GLN:HB3	2.34	0.56
2:H:2091:LEU:HD12	2:H:2093:VAL:CG2	2.31	0.56
2:H:2187:VAL:HG23	2:H:2188:ALA:N	2.21	0.56
1:I:2368:ASP:OD2	1:I:2370:GLN:HG3	2.05	0.56
2:J:2628:ILE:O	2:J:2628:ILE:HG13	2.05	0.56
2:J:2637:TYR:CD1	2:J:2673:LEU:HD12	2.40	0.56
2:J:2646:ILE:HD13	2:J:2646:ILE:C	2.31	0.56
2:J:2816:ILE:HG23	2:J:2817:SER:N	2.21	0.56
1:K:2982:LEU:HD23	1:K:2982:LEU:C	2.31	0.56
1:C:647:VAL:HG13	1:C:647:VAL:O	2.05	0.56
1:C:827:ASN:HD21	2:D:1111:GLN:H	1.54	0.56
1:C:827:ASN:ND2	2:D:1111:GLN:H	2.03	0.56
2:D:969:LEU:H	2:D:969:LEU:CD1	2.16	0.56
1:E:1285:ARG:O	1:E:1288:VAL:HG12	2.06	0.56
2:F:1677:THR:HG23	2:F:1678:ILE:N	2.21	0.56
2:H:2176:ARG:H	2:H:2176:ARG:CD	2.19	0.56
1:I:2379:LEU:HD22	1:I:2379:LEU:N	2.21	0.56
1:I:2512:LEU:CD1	1:I:2520:ILE:HG12	2.35	0.56
1:A:39:PHE:HE1	1:A:65:ILE:CG1	2.19	0.56
1:A:154:LEU:HD23	1:A:165:LEU:HD22	1.87	0.56
1:A:174:THR:CB	1:A:175:PHE:HA	2.35	0.56
1:C:681:ILE:CD1	1:C:685:TYR:HB2	2.31	0.56
1:C:710:LEU:O	1:C:714:ARG:HG2	2.05	0.56
1:C:753:ALA:HB1	1:C:757:LYS:NZ	2.21	0.56
2:D:1093:LYS:C	2:D:1094:LEU:HD22	2.30	0.56
1:E:1230:VAL:HB	1:E:1232:ILE:HD11	1.87	0.56
2:H:2268:GLN:OE1	2:H:2271:SER:HB3	2.06	0.56
2:J:2798:LEU:HD13	2:J:2808:ARG:NH1	2.17	0.56
1:K:2978:THR:HG23	1:K:2979:THR:N	2.21	0.56
1:K:2997:GLN:HA	1:K:2997:GLN:OE1	2.06	0.56
1:A:146:VAL:CG1	1:A:170:LEU:HD11	2.36	0.55
2:B:524:ARG:HD2	1:C:785:ALA:CB	2.35	0.55
1:C:655:ASP:O	1:C:656:LEU:HB2	2.06	0.55
2:D:1081:LEU:HD23	2:D:1081:LEU:O	2.06	0.55
1:E:1199:LEU:O	1:E:1201:PRO:HD3	2.06	0.55
1:E:1380:LEU:HB2	2:F:1649:ALA:HB3	1.88	0.55
1:E:1398:ASN:HD21	2:F:1681:SER:C	2.14	0.55
1:I:2322:ILE:HD11	1:I:2346:GLN:NE2	2.20	0.55
2:J:2845:ARG:O	2:J:2845:ARG:HD3	2.06	0.55
1:A:204:GLU:O	1:A:207:LYS:HB2	2.05	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:224:ILE:CG1	2:B:497:ILE:HG22	2.36	0.55
2:D:960:LEU:HD23	2:D:960:LEU:O	2.05	0.55
2:D:1094:LEU:CD1	2:D:1097:ILE:HB	2.27	0.55
2:F:1665:LEU:CB	1:G:1931:SER:N	2.67	0.55
2:F:1665:LEU:HB2	1:G:1930:ASP:O	2.06	0.55
1:G:1777:PRO:C	1:G:1778:ILE:HD12	2.30	0.55
1:G:1932:LYS:O	1:G:1936:LEU:HG	2.06	0.55
2:H:2139:ILE:HG12	2:H:2185:LYS:NZ	2.21	0.55
1:I:2519:LEU:O	2:J:2788:ALA:HB2	2.06	0.55
1:I:2526:GLU:HG3	2:J:2787:GLU:CG	2.37	0.55
2:J:2597:PHE:HE1	2:J:2625:HIS:HB2	1.64	0.55
1:A:84:ASP:O	1:A:85:LEU:HB2	2.07	0.55
2:D:952:LEU:O	2:D:1022:LEU:HD12	2.06	0.55
1:E:1328:LYS:HG3	1:E:1329:GLN:N	2.19	0.55
1:G:1823:ILE:CG2	1:G:1874:PHE:HE1	2.20	0.55
1:I:2314:VAL:HG13	1:I:2314:VAL:O	2.07	0.55
1:K:2924:CYS:O	1:K:2952:ARG:HD2	2.05	0.55
1:K:3038:VAL:HG23	1:K:3039:GLU:N	2.22	0.55
2:B:553:ASN:C	2:B:554:LEU:HD22	2.32	0.55
1:C:806:LEU:CD1	2:D:1072:GLU:HA	2.35	0.55
1:E:1370:LEU:CD2	1:E:1378:ILE:HB	2.36	0.55
1:E:1380:LEU:CD1	2:F:1645:GLU:HB3	2.36	0.55
2:F:1653:GLY:HA2	2:F:1656:LEU:HD23	1.88	0.55
1:I:2316:ALA:HA	1:I:2336:GLU:OE1	2.06	0.55
2:J:2688:VAL:HG13	2:J:2689:LEU:N	2.20	0.55
2:J:2798:LEU:HD12	2:J:2804:TYR:HD2	1.72	0.55
2:J:2827:ILE:HD13	2:J:2827:ILE:H	1.72	0.55
1:K:2954:VAL:HG23	1:K:2957:GLN:CB	2.37	0.55
1:A:84:ASP:OD2	1:A:135:ASP:HB2	2.06	0.55
1:A:200:VAL:HG23	1:A:201:GLU:N	2.21	0.55
2:B:517:ASN:CG	2:B:518:PRO:HD2	2.31	0.55
1:C:759:VAL:HG13	1:C:760:ALA:N	2.20	0.55
2:D:1085:LEU:HD12	2:D:1085:LEU:C	2.32	0.55
1:E:1289:SER:HB2	1:E:1312:LEU:HD13	1.88	0.55
2:F:1469:ILE:HG23	2:F:1470:GLY:N	2.21	0.55
2:F:1566:GLN:HE21	2:F:1566:GLN:CA	2.19	0.55
2:F:1641:GLN:O	2:F:1645:GLU:HG2	2.07	0.55
1:G:1718:VAL:HG13	1:G:1719:PHE:N	2.20	0.55
1:G:1752:PHE:HB2	1:G:1776:LYS:O	2.06	0.55
2:H:2072:PRO:HG3	2:H:2094:LEU:CD1	2.36	0.55
2:H:2083:ASP:O	2:H:2084:LEU:HB2	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:2227:LEU:CD1	2:H:2234:ILE:HG22	2.35	0.55
2:J:2564:LEU:N	2:J:2564:LEU:HD12	2.22	0.55
2:J:2851:ILE:HG23	2:J:2851:ILE:O	2.06	0.55
1:K:2931:VAL:HG23	1:K:2931:VAL:O	2.06	0.55
1:K:3075:ALA:O	1:K:3079:ILE:HG13	2.06	0.55
1:C:670:VAL:O	1:C:674:LEU:HD12	2.06	0.55
1:C:806:LEU:HD11	2:D:1072:GLU:HA	1.88	0.55
1:E:1170:TYR:HB2	1:E:1199:LEU:HD23	1.89	0.55
1:E:1380:LEU:HB3	2:F:1646:ALA:HA	1.87	0.55
2:F:1486:ILE:HD13	2:F:1486:ILE:N	2.11	0.55
2:F:1591:LEU:HD23	2:F:1591:LEU:H	1.70	0.55
2:F:1601:LEU:HD23	2:F:1601:LEU:C	2.31	0.55
1:G:1843:VAL:HG13	1:G:1844:VAL:N	2.20	0.55
1:I:2340:PHE:C	1:I:2341:LEU:HD12	2.31	0.55
1:K:2880:SER:OG	1:K:2914:PRO:HB3	2.07	0.55
2:B:336:LEU:HD23	2:B:341:HIS:ND1	2.21	0.55
2:B:370:ASP:OD2	2:B:372:GLN:HG2	2.07	0.55
2:B:400:TYR:OH	2:B:449:LEU:HB2	2.07	0.55
2:D:914:ARG:HD2	2:D:915:ILE:N	2.22	0.55
1:E:1346:GLU:HA	1:E:1349:LYS:HD3	1.89	0.55
2:F:1642:ALA:O	2:F:1645:GLU:HG2	2.06	0.55
2:H:2035:ILE:O	2:H:2064:ILE:HD13	2.07	0.55
2:H:2048:ILE:HD13	2:H:2099:ALA:O	2.07	0.55
2:H:2179:THR:HG23	2:H:2180:ALA:N	2.22	0.55
2:J:2604:ARG:HB2	2:J:2620:LEU:O	2.07	0.55
2:J:2690:PRO:HA	2:J:2693:VAL:HG12	1.87	0.55
1:K:3029:THR:HG22	1:K:3030:PHE:N	2.21	0.55
1:A:8:SER:HA	1:A:11:LYS:HZ2	1.72	0.55
1:E:1226:ASP:O	1:E:1227:LEU:HB2	2.07	0.55
2:F:1498:ARG:HG2	2:F:1499:ALA:H	1.72	0.55
1:G:1805:LEU:HD12	1:G:1882:SER:O	2.06	0.55
2:H:2009:LYS:C	2:H:2009:LYS:HD3	2.31	0.55
2:H:2075:ILE:O	2:H:2075:ILE:HG23	2.07	0.55
1:I:2387:LEU:HD23	1:I:2390:ILE:HD12	1.88	0.55
1:I:2539:ARG:CB	2:J:2822:THR:HG21	2.37	0.55
1:I:2539:ARG:HA	2:J:2822:THR:HG22	1.87	0.55
1:A:218:SER:HB2	1:K:3090:LEU:O	2.07	0.55
2:D:967:LEU:HD13	2:D:967:LEU:C	2.32	0.55
2:D:1122:VAL:O	2:D:1123:LEU:HD22	2.06	0.55
1:E:1165:VAL:HG23	1:E:1166:ASN:N	2.20	0.55
2:F:1495:TYR:OH	2:F:1535:TYR:HD1	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:2556:GLN:OE1	1:I:2556:GLN:HA	2.06	0.55
2:J:2627:ARG:HG2	2:J:2628:ILE:N	2.20	0.55
2:J:2690:PRO:HA	2:J:2693:VAL:CG1	2.37	0.55
2:J:2727:ARG:O	2:J:2731:PHE:HD2	1.89	0.55
1:A:228:LEU:HA	1:A:235:LEU:HD12	1.87	0.55
2:B:324:PHE:HB2	2:B:351:ILE:CD1	2.37	0.55
2:D:914:ARG:HD2	2:D:915:ILE:O	2.07	0.55
2:D:941:ASP:O	2:D:942:LEU:HB2	2.06	0.55
2:D:1094:LEU:O	1:E:1359:ASP:HB3	2.07	0.55
1:E:1278:ALA:HA	1:E:1281:LEU:CD1	2.37	0.55
1:E:1380:LEU:HD22	1:E:1383:LEU:CD1	2.34	0.55
1:G:1937:ILE:HD13	2:H:2209:LYS:HE3	1.87	0.55
2:H:2227:LEU:HD22	2:H:2234:ILE:HG22	1.88	0.55
1:K:2950:LEU:HD22	1:K:2950:LEU:N	2.22	0.55
1:A:174:THR:CB	1:A:175:PHE:CA	2.85	0.54
1:A:219:LYS:HD2	1:A:219:LYS:C	2.31	0.54
2:D:855:LEU:HD12	2:D:855:LEU:N	2.21	0.54
2:D:922:ILE:HD12	2:D:964:TYR:CD2	2.42	0.54
2:D:947:ILE:CG1	2:D:1030:LEU:HD21	2.37	0.54
1:E:1238:PHE:C	1:E:1239:ARG:HG3	2.32	0.54
1:K:3020:LEU:HD11	1:K:3023:VAL:CG2	2.35	0.54
1:K:3097:GLU:O	1:K:3100:GLU:HG2	2.07	0.54
1:A:183:VAL:HG13	1:A:184:GLU:N	2.22	0.54
2:D:1121:LEU:HD11	2:D:1123:LEU:HD21	1.88	0.54
1:E:1370:LEU:O	1:E:1370:LEU:HD23	2.06	0.54
2:J:2709:LEU:HG	2:J:2743:LEU:HD23	1.90	0.54
1:K:3102:ILE:HG23	1:K:3103:ALA:N	2.22	0.54
1:A:180:THR:O	1:A:183:VAL:HG12	2.08	0.54
1:C:713:GLN:OE1	1:C:716:LEU:HD12	2.06	0.54
2:D:933:ILE:HG23	2:D:933:ILE:O	2.06	0.54
1:E:1160:VAL:HG13	1:E:1161:ALA:N	2.22	0.54
1:E:1409:LEU:C	1:E:1410:LEU:HD12	2.33	0.54
1:I:2527:ALA:O	1:I:2531:ILE:HG13	2.07	0.54
1:K:2958:LEU:CD1	1:K:2961:ILE:HD11	2.38	0.54
1:K:3020:LEU:HD21	1:K:3023:VAL:CG2	2.34	0.54
1:K:3057:LYS:HA	1:K:3060:GLN:HG2	1.89	0.54
1:A:124:THR:HG23	1:A:125:GLU:N	2.23	0.54
1:A:142:GLN:HG3	1:A:145:LEU:HB2	1.90	0.54
1:A:220:ALA:O	1:A:224:ILE:HG13	2.07	0.54
2:B:524:ARG:CG	1:C:785:ALA:HB1	2.37	0.54
1:E:1207:ILE:HD12	1:E:1207:ILE:N	2.23	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1752:PHE:HD2	1:G:1778:ILE:CD1	2.20	0.54
1:G:1863:VAL:HG12	1:G:1867:LEU:HD12	1.90	0.54
2:J:2672:GLU:CB	2:J:2732:SER:HB2	2.37	0.54
2:J:2773:ALA:O	2:J:2777:GLN:HG3	2.08	0.54
2:B:306:TYR:O	2:B:310:GLU:HG2	2.07	0.54
1:E:1213:SER:HB3	1:E:1239:ARG:NH1	2.23	0.54
2:F:1531:LEU:CB	2:F:1532:PRO:HD3	2.38	0.54
2:H:2121:ILE:HD11	2:H:2160:PHE:HE2	1.71	0.54
2:H:2208:GLN:O	2:H:2211:VAL:HG12	2.07	0.54
1:K:2949:ILE:CG1	1:K:2951:PHE:HE2	2.18	0.54
2:D:933:ILE:HG21	2:D:980:VAL:CG1	2.32	0.54
2:D:947:ILE:HG13	2:D:1030:LEU:CD2	2.37	0.54
1:E:1312:LEU:HD12	1:E:1312:LEU:N	2.23	0.54
1:G:1736:VAL:HG23	1:G:1737:ASN:N	2.22	0.54
1:G:1754:ARG:HD3	1:G:1773:TRP:O	2.07	0.54
2:J:2568:LEU:CD1	2:J:2569:PRO:HD2	2.28	0.54
1:K:2877:VAL:HG13	1:K:2878:VAL:N	2.22	0.54
1:A:103:LEU:HA	1:A:106:ILE:HD11	1.86	0.54
1:C:632:VAL:HB	1:C:633:GLN:NE2	2.21	0.54
2:D:864:THR:HG23	2:D:865:ALA:N	2.21	0.54
2:D:931:ARG:HB2	2:D:951:VAL:CG2	2.38	0.54
2:D:1095:ARG:HB2	1:E:1356:ALA:HB1	1.90	0.54
1:E:1244:GLN:O	1:E:1248:ILE:HD13	2.06	0.54
2:F:1678:ILE:HG23	2:F:1679:ALA:N	2.22	0.54
1:G:1832:LEU:O	1:G:1836:THR:HG22	2.07	0.54
1:G:1951:LEU:CB	2:H:2220:ALA:HB2	2.37	0.54
2:H:2237:ARG:CB	1:I:2498:ALA:HB1	2.34	0.54
1:I:2539:ARG:HB3	2:J:2822:THR:HG21	1.89	0.54
1:K:2965:ILE:HG21	1:K:2969:TYR:CB	2.38	0.54
1:A:177:LYS:HZ3	1:A:177:LYS:HB2	1.72	0.54
1:A:214:ALA:HB1	1:K:3094:ARG:HB3	1.90	0.54
2:B:405:LEU:HD23	2:B:405:LEU:O	2.08	0.54
1:C:654:LYS:O	1:C:656:LEU:HD22	2.08	0.54
1:C:829:THR:HG23	1:C:829:THR:O	2.08	0.54
1:E:1190:ILE:HD13	1:E:1190:ILE:N	2.15	0.54
2:F:1494:ILE:HG23	2:F:1494:ILE:O	2.08	0.54
2:F:1578:ILE:HG13	2:F:1579:ARG:N	2.23	0.54
1:I:2383:VAL:HG23	1:I:2383:VAL:O	2.08	0.54
1:K:2990:ASP:HB2	1:K:2993:GLU:OE1	2.08	0.54
1:A:212:ILE:HA	1:A:215:GLU:HG2	1.90	0.54
2:D:947:ILE:CD1	2:D:1030:LEU:HD21	2.38	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1269:LEU:HD21	1:E:1292:VAL:HG21	1.90	0.54
1:E:1272:VAL:HG12	1:E:1276:PHE:HE2	1.73	0.54
2:F:1508:THR:HG21	2:F:1556:LYS:HA	1.89	0.54
2:H:2162:LEU:HD23	2:H:2162:LEU:C	2.32	0.54
1:I:2406:ILE:N	1:I:2406:ILE:HD12	2.23	0.54
1:C:745:THR:HG22	1:C:750:PHE:CE1	2.44	0.54
1:C:745:THR:CG2	1:C:750:PHE:CE1	2.91	0.54
2:D:848:LEU:HD13	2:D:848:LEU:C	2.33	0.54
1:E:1289:SER:HA	1:E:1312:LEU:HD11	1.90	0.54
1:E:1373:ALA:O	1:E:1377:LEU:HG	2.07	0.54
2:F:1465:PHE:CZ	2:F:1478:LEU:HD21	2.41	0.54
1:G:1932:LYS:HE3	1:G:1936:LEU:HD21	1.90	0.54
2:J:2627:ARG:HD2	2:J:2632:GLN:O	2.07	0.54
1:K:2907:GLU:HG2	1:K:2908:GLY:N	2.23	0.54
2:B:458:GLU:OE1	2:B:458:GLU:HA	2.07	0.53
1:C:671:ALA:HA	1:C:674:LEU:CD1	2.38	0.53
1:C:754:VAL:HG23	1:C:755:GLU:N	2.23	0.53
1:I:2380:PHE:HD1	1:I:2448:ILE:O	1.91	0.53
1:I:2412:LYS:O	1:I:2415:VAL:HG12	2.08	0.53
1:I:2452:VAL:HG13	1:I:2452:VAL:O	2.07	0.53
2:J:2808:ARG:HG2	1:K:3069:ALA:C	2.33	0.53
2:J:2821:ALA:HB3	1:K:3105:GLN:OE1	2.08	0.53
1:K:2974:LEU:CB	1:K:2975:PRO:HD3	2.35	0.53
1:K:3000:LEU:HD12	1:K:3000:LEU:N	2.23	0.53
2:B:523:LEU:HD13	1:C:792:ALA:HB1	1.86	0.53
2:B:532:ILE:HD13	2:B:532:ILE:O	2.07	0.53
2:D:848:LEU:HD13	2:D:849:LYS:O	2.08	0.53
2:D:1120:ASN:O	2:D:1121:LEU:HB3	2.07	0.53
1:E:1170:TYR:CD1	1:E:1206:PRO:HG2	2.43	0.53
1:E:1179:VAL:CG1	1:E:1207:ILE:HB	2.38	0.53
2:F:1527:ASN:O	2:F:1531:LEU:HD22	2.09	0.53
2:F:1659:ASN:HB2	2:F:1660:PRO:CD	2.36	0.53
2:F:1665:LEU:HD13	1:G:1930:ASP:CB	2.37	0.53
1:G:1837:THR:HG23	1:G:1838:GLU:N	2.22	0.53
2:H:2101:GLU:CB	2:H:2161:SER:HB3	2.38	0.53
1:I:2306:VAL:HG13	1:I:2307:VAL:N	2.23	0.53
2:J:2724:LEU:HG	2:J:2735:LEU:CD1	2.36	0.53
1:A:11:LYS:O	1:A:14:LEU:HD23	2.08	0.53
2:B:340:LEU:HD13	2:B:340:LEU:C	2.33	0.53
2:D:903:GLN:HA	2:D:961:PRO:HB3	1.90	0.53
2:D:1122:VAL:O	2:D:1122:VAL:HG13	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:1136:SER:O	2:D:1137:LEU:HD23	2.08	0.53
2:F:1464:ILE:HG23	2:F:1464:ILE:O	2.08	0.53
2:F:1575:SER:O	2:F:1578:ILE:HG12	2.09	0.53
2:F:1620:GLU:O	2:F:1623:ARG:HG2	2.08	0.53
1:G:1750:VAL:HG21	1:G:1816:LEU:HG	1.90	0.53
1:G:1752:PHE:HD2	1:G:1778:ILE:HD13	1.73	0.53
1:G:1934:ALA:HA	1:G:1937:ILE:HD12	1.90	0.53
2:J:2599:VAL:HG12	2:J:2636:ILE:HD12	1.89	0.53
1:A:14:LEU:HD23	1:A:14:LEU:H	1.74	0.53
2:D:947:ILE:CD1	2:D:1027:ILE:HG23	2.38	0.53
1:E:1384:GLU:CD	1:E:1387:GLU:HG3	2.33	0.53
1:G:1863:VAL:HG12	1:G:1867:LEU:CD1	2.39	0.53
1:G:1883:LEU:HD12	1:G:1883:LEU:H	1.73	0.53
2:H:2153:LEU:CG	2:H:2164:LEU:HD11	2.37	0.53
1:I:2372:VAL:HG12	1:I:2374:ILE:HG13	1.89	0.53
2:J:2628:ILE:HD12	2:J:2631:PHE:HB2	1.90	0.53
2:J:2770:VAL:HG23	2:J:2771:GLU:N	2.23	0.53
2:J:2794:LEU:HD21	1:K:3066:ILE:CA	2.30	0.53
1:K:3114:TYR:HD1	1:K:3115:LEU:H	1.56	0.53
1:A:43:ARG:HH11	1:A:43:ARG:CG	2.20	0.53
2:B:486:VAL:HG13	2:B:487:GLU:N	2.24	0.53
2:D:894:PHE:HE2	2:D:919:GLN:CD	2.16	0.53
1:E:1265:THR:O	1:E:1269:LEU:HG	2.08	0.53
2:F:1466:PHE:HD1	2:F:1472:VAL:CG1	2.22	0.53
2:F:1506:SER:HB2	2:F:1555:LEU:HD13	1.90	0.53
1:G:1763:VAL:HG21	1:G:1768:HIS:ND1	2.23	0.53
1:G:1821:THR:HG23	1:G:1822:SER:N	2.22	0.53
2:H:2153:LEU:HD23	2:H:2167:VAL:HG11	1.91	0.53
1:K:2929:ARG:HB2	1:K:2949:ILE:CG1	2.39	0.53
1:K:3091:ILE:O	1:K:3094:ARG:HG2	2.08	0.53
2:B:341:HIS:HB2	2:B:343:ARG:HH12	1.72	0.53
2:B:527:ARG:HB2	1:C:788:ASP:OD2	2.09	0.53
1:C:671:ALA:HA	1:C:674:LEU:HD11	1.91	0.53
2:D:1081:LEU:HD11	2:D:1095:ARG:HD2	1.91	0.53
1:E:1380:LEU:HD12	2:F:1645:GLU:C	2.33	0.53
2:F:1665:LEU:CD2	1:G:1931:SER:CA	2.86	0.53
2:F:1665:LEU:CD2	1:G:1931:SER:CB	2.69	0.53
1:G:1727:LEU:HD13	1:G:1727:LEU:C	2.33	0.53
2:H:2001:PRO:CB	2:H:2004:MET:HE3	2.38	0.53
2:H:2169:ILE:HD13	2:H:2169:ILE:N	2.18	0.53
1:I:2524:LYS:HB2	1:I:2524:LYS:NZ	2.23	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:320:ARG:CZ	2:B:386:ALA:HB1	2.37	0.53
2:B:542:ARG:N	2:J:2827:ILE:HG22	2.24	0.53
2:D:891:ARG:NH1	2:D:957:ALA:HB1	2.24	0.53
2:D:1082:GLY:O	2:D:1085:LEU:HD23	2.09	0.53
1:E:1384:GLU:O	1:E:1387:GLU:HB2	2.08	0.53
1:G:1751:ILE:HG23	1:G:1775:GLN:CG	2.38	0.53
1:G:1844:VAL:HG13	1:G:1845:ALA:N	2.24	0.53
2:H:2234:ILE:HD12	2:H:2235:LYS:CA	2.39	0.53
1:A:74:ARG:HG3	1:A:119:LEU:CD2	2.39	0.53
1:A:238:LEU:HD22	2:B:507:ALA:N	2.22	0.53
2:B:412:VAL:HG23	2:B:439:GLU:HG2	1.90	0.53
2:F:1478:LEU:HD12	2:F:1478:LEU:N	2.23	0.53
2:F:1665:LEU:CD1	1:G:1930:ASP:CB	2.85	0.53
2:H:2040:ILE:CG1	2:H:2060:PHE:HZ	2.21	0.53
2:H:2075:ILE:HG21	2:H:2122:VAL:HG11	1.90	0.53
2:H:2230:ASN:CG	2:H:2231:PRO:HD2	2.34	0.53
1:I:2479:ARG:HA	1:I:2479:ARG:CZ	2.39	0.53
1:K:2998:ARG:HH12	1:K:3025:LEU:CD1	2.13	0.53
1:K:3043:VAL:HG23	1:K:3044:ALA:N	2.22	0.53
1:K:3054:VAL:HG23	1:K:3055:VAL:N	2.24	0.53
1:A:40:ASP:CG	1:A:62:GLN:HG2	2.34	0.53
1:A:92:LEU:HD11	1:A:168:VAL:HG22	1.91	0.53
1:A:139:LEU:HG	1:A:173:LEU:HD23	1.91	0.53
2:D:1091:TYR:HE2	1:E:1357:GLU:CG	2.22	0.53
1:E:1346:GLU:O	1:E:1349:LYS:HG3	2.09	0.53
2:F:1508:THR:O	2:F:1516:VAL:HG22	2.09	0.53
1:G:1732:ALA:HA	1:G:1735:VAL:CG1	2.38	0.53
2:H:2162:LEU:HD23	2:H:2163:ILE:C	2.34	0.53
2:H:2176:ARG:NH1	2:H:2177:GLU:HG2	2.24	0.53
2:H:2188:ALA:O	2:H:2191:GLU:HG2	2.08	0.53
1:I:2289:VAL:HG13	1:I:2290:PHE:N	2.22	0.53
2:B:461:PHE:CD1	2:B:464:GLU:HB3	2.43	0.53
1:C:821:GLN:HA	1:C:821:GLN:HE21	1.73	0.53
2:D:1094:LEU:HD23	1:E:1363:ALA:HB2	1.91	0.53
2:F:1435:THR:HG23	2:F:1436:ALA:N	2.23	0.53
2:F:1608:THR:HG23	2:F:1609:ALA:N	2.24	0.53
1:G:1762:VAL:CB	1:G:1816:LEU:HD21	2.38	0.53
1:G:1847:PHE:CE2	1:G:1851:GLU:HG2	2.43	0.53
1:G:1948:LEU:O	2:H:2217:ALA:HB2	2.09	0.53
1:I:2522:LEU:HD13	1:I:2525:LEU:HB3	1.85	0.53
1:A:228:LEU:CA	1:A:235:LEU:HD13	2.32	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:1092:ILE:HG23	2:D:1093:LYS:N	2.24	0.52
2:F:1540:LEU:HD22	2:F:1540:LEU:H	1.74	0.52
2:F:1582:LEU:HD12	2:F:1582:LEU:C	2.34	0.52
2:H:2040:ILE:CD1	2:H:2060:PHE:HZ	2.21	0.52
1:K:2939:ASP:O	1:K:2940:LEU:HB2	2.09	0.52
1:K:2943:VAL:HG11	1:K:3028:LEU:HD21	1.90	0.52
1:A:78:VAL:O	1:A:90:ILE:HD13	2.09	0.52
2:F:1458:GLU:OE1	2:F:1458:GLU:HA	2.08	0.52
2:H:1990:LEU:HD23	2:H:1990:LEU:C	2.34	0.52
2:H:2172:LEU:O	2:H:2173:SER:HB3	2.09	0.52
1:I:2403:LEU:HD23	1:I:2403:LEU:C	2.34	0.52
2:J:2599:VAL:HG23	2:J:2599:VAL:O	2.08	0.52
1:A:127:LEU:CD1	1:A:131:VAL:HG21	2.39	0.52
1:A:208:LYS:O	1:A:212:ILE:HD13	2.08	0.52
2:B:433:SER:O	2:B:436:ILE:HG12	2.09	0.52
2:B:523:LEU:HD22	1:C:792:ALA:N	2.24	0.52
2:B:545:LEU:HG	2:F:1687:LEU:HD12	1.92	0.52
1:E:1380:LEU:HD12	2:F:1645:GLU:HB3	1.91	0.52
2:F:1665:LEU:CG	1:G:1931:SER:N	2.72	0.52
1:G:1725:PHE:HD1	1:G:1726:GLY:N	2.08	0.52
1:G:1932:LYS:HD2	1:G:1936:LEU:CD1	2.39	0.52
1:I:2349:ILE:CD1	1:I:2351:PHE:CZ	2.92	0.52
1:I:2438:LEU:HD23	1:I:2438:LEU:C	2.35	0.52
1:I:2547:GLY:O	1:I:2548:GLN:HB3	2.09	0.52
2:J:2666:SER:CB	2:J:2733:LEU:HD11	2.08	0.52
1:K:2892:VAL:HG21	1:K:2962:PHE:CD2	2.43	0.52
1:A:58:ILE:HB	1:A:61:VAL:CG2	2.39	0.52
2:B:357:ALA:HB2	2:B:383:ARG:CG	2.39	0.52
2:B:441:THR:HA	2:B:451:LEU:HD21	1.91	0.52
2:B:489:ALA:O	2:B:492:GLU:HG2	2.09	0.52
1:G:1731:VAL:O	1:G:1735:VAL:HG12	2.10	0.52
2:H:2253:GLN:CD	1:I:2538:SER:HA	2.34	0.52
1:I:2376:LEU:HD11	1:I:2411:LEU:HG	1.91	0.52
1:I:2520:ILE:O	1:I:2523:ARG:HG2	2.09	0.52
1:K:3059:GLU:HA	1:K:3062:LYS:CE	2.39	0.52
1:A:27:LEU:HD11	1:A:54:THR:OG1	2.09	0.52
1:A:119:LEU:O	1:A:123:THR:HG23	2.10	0.52
2:B:436:ILE:HG13	2:B:437:ARG:N	2.25	0.52
1:C:579:SER:O	1:C:583:PHE:HD2	1.92	0.52
1:C:697:ILE:HD11	1:C:728:ARG:HG3	1.91	0.52
1:C:795:ILE:HD11	2:D:1071:ALA:HB3	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:843:GLN:HG3	1:C:843:GLN:O	2.09	0.52
2:D:906:ILE:HD13	2:D:958:GLN:HA	1.92	0.52
2:D:1057:VAL:HG23	2:D:1058:GLU:N	2.24	0.52
2:D:1094:LEU:CG	1:E:1363:ALA:CB	2.82	0.52
1:E:1373:ALA:HB1	1:E:1377:LEU:HG	1.87	0.52
1:K:2945:ILE:HD11	1:K:3028:LEU:CD2	2.39	0.52
1:K:3121:VAL:HG12	1:K:3122:LEU:N	2.24	0.52
1:A:215:GLU:HB2	1:K:3090:LEU:HD11	1.87	0.52
2:B:567:ILE:HG23	2:B:567:ILE:O	2.09	0.52
1:C:656:LEU:HD22	1:C:656:LEU:N	2.24	0.52
1:C:674:LEU:HB2	1:C:675:PRO:HD3	1.91	0.52
1:C:685:TYR:HE1	1:C:734:LEU:CD1	2.06	0.52
2:D:902:GLN:OE1	2:D:902:GLN:HA	2.09	0.52
2:D:1087:LYS:O	2:D:1091:TYR:HB3	2.10	0.52
1:E:1282:ILE:HG13	1:E:1283:THR:N	2.24	0.52
2:H:2036:PHE:HE2	2:H:2038:ASN:HD21	1.58	0.52
1:I:2314:VAL:HG13	1:I:2336:GLU:CA	2.34	0.52
1:I:2349:ILE:HG13	1:I:2349:ILE:O	2.09	0.52
1:I:2363:ILE:HG23	1:I:2363:ILE:O	2.10	0.52
1:I:2488:GLU:O	1:I:2491:LYS:HB3	2.10	0.52
1:A:5:VAL:HG23	1:A:6:PHE:N	2.24	0.52
1:A:36:ALA:O	1:A:50:VAL:HG12	2.10	0.52
2:B:405:LEU:HD23	2:B:405:LEU:C	2.34	0.52
1:C:795:ILE:HG23	1:C:796:ALA:N	2.24	0.52
2:F:1461:HIS:CB	2:F:1494:ILE:HD11	2.38	0.52
2:H:2033:ARG:CG	2:H:2068:ILE:HG12	2.39	0.52
2:H:2139:ILE:HG23	2:H:2140:THR:N	2.24	0.52
2:H:2229:LYS:CB	2:H:2233:TYR:CZ	2.93	0.52
1:I:2442:ALA:HB1	1:I:2447:LEU:CD1	2.40	0.52
1:I:2512:LEU:HD13	1:I:2523:ARG:CD	2.39	0.52
2:J:2704:PHE:CD2	2:J:2708:GLN:CB	2.93	0.52
1:K:2989:PHE:CZ	1:K:3001:VAL:HG22	2.44	0.52
1:A:90:ILE:HG22	1:A:173:LEU:HG	1.92	0.52
1:A:100:ALA:C	1:A:103:LEU:HD23	2.34	0.52
2:B:515:SER:C	2:B:517:ASN:H	2.17	0.52
2:D:898:ILE:HG13	2:D:918:PHE:HE2	1.74	0.52
2:D:976:LEU:CB	2:D:977:PRO:HD3	2.35	0.52
1:E:1400:THR:HG23	1:E:1401:TYR:N	2.25	0.52
2:F:1458:GLU:HG3	2:F:1459:GLY:N	2.25	0.52
2:F:1642:ALA:HA	2:F:1645:GLU:HG2	1.91	0.52
2:H:2075:ILE:HD11	2:H:2123:ASN:ND2	2.25	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:2512:LEU:HG	1:I:2520:ILE:CG1	2.37	0.52
1:E:1170:TYR:C	1:E:1171:ASN:HD22	2.18	0.52
1:E:1266:THR:HG23	1:E:1267:GLU:N	2.23	0.52
1:G:1823:ILE:HD12	1:G:1827:TYR:HA	1.90	0.52
2:H:2167:VAL:HG23	2:H:2167:VAL:O	2.09	0.52
1:I:2349:ILE:CD1	1:I:2391:PHE:CE2	2.93	0.52
1:I:2383:VAL:HG21	1:I:2386:GLN:CD	2.35	0.52
2:J:2745:PHE:O	2:J:2749:TYR:HB3	2.09	0.52
2:F:1450:VAL:HG13	2:F:1451:ARG:N	2.24	0.52
2:F:1524:SER:C	2:F:1525:ARG:HG3	2.35	0.52
2:F:1709:ILE:HG23	2:F:1709:ILE:O	2.09	0.52
2:H:2198:LEU:HD23	2:H:2198:LEU:H	1.75	0.52
2:J:2611:ILE:HG23	2:J:2612:GLY:N	2.24	0.52
1:K:3055:VAL:HG23	1:K:3056:GLU:N	2.24	0.52
1:A:239:ARG:HG3	2:B:500:ALA:HB2	1.92	0.51
1:C:690:LEU:HD23	1:C:690:LEU:C	2.35	0.51
2:F:1468:ARG:HB3	2:F:1489:PHE:HE1	1.74	0.51
2:F:1665:LEU:HD21	1:G:1928:GLU:CA	2.39	0.51
2:H:2138:LEU:CD2	2:H:2172:LEU:HD23	2.39	0.51
2:H:2249:ILE:HD13	2:H:2249:ILE:C	2.34	0.51
1:I:2435:SER:HB2	1:I:2452:VAL:CG1	2.40	0.51
2:J:2628:ILE:CD1	2:J:2631:PHE:HB2	2.39	0.51
1:K:2954:VAL:HG23	1:K:2954:VAL:O	2.10	0.51
1:K:2954:VAL:HG12	1:K:3019:ILE:HG12	1.91	0.51
1:C:729:ALA:CB	1:C:736:LEU:HD11	2.41	0.51
1:C:745:THR:CB	1:C:746:PHE:CA	2.89	0.51
2:D:915:ILE:HG12	2:D:916:PRO:HD2	1.93	0.51
2:F:1658:LYS:CB	2:F:1662:TYR:CE1	2.93	0.51
1:I:2321:VAL:HG12	1:I:2349:ILE:HG13	1.92	0.51
1:I:2339:HIS:CD2	1:I:2340:PHE:H	2.28	0.51
2:J:2662:LEU:HD22	2:J:2662:LEU:N	2.24	0.51
1:K:2947:LEU:HG	1:K:2982:LEU:HD12	1.91	0.51
1:K:2950:LEU:HB2	1:K:3021:ASP:HB3	1.90	0.51
1:A:126:ILE:HD11	1:A:157:ARG:NE	2.25	0.51
2:D:898:ILE:HG13	2:D:918:PHE:CE2	2.45	0.51
1:G:1809:PHE:CE1	1:G:1832:LEU:CD1	2.94	0.51
2:B:524:ARG:HD2	1:C:785:ALA:HB1	1.93	0.51
1:C:795:ILE:HD13	2:D:1068:ILE:HA	1.91	0.51
2:D:1114:ILE:CG2	2:D:1115:TYR:H	2.22	0.51
1:E:1264:ILE:HD12	1:E:1264:ILE:N	2.26	0.51
2:F:1462:ARG:HD2	2:F:1528:ALA:HB1	1.91	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:1582:LEU:HD21	2:F:1596:VAL:HG11	1.91	0.51
1:G:1949:ILE:HG23	1:G:1950:GLU:N	2.25	0.51
1:I:2380:PHE:CE1	1:I:2447:LEU:CD2	2.93	0.51
2:J:2786:GLY:O	2:J:2789:GLU:HG2	2.11	0.51
2:J:2787:GLU:OE1	2:J:2787:GLU:HA	2.11	0.51
2:J:2798:LEU:CD1	2:J:2808:ARG:HH11	2.21	0.51
2:B:408:ILE:HG13	2:B:447:PHE:CE2	2.45	0.51
1:C:670:VAL:CG1	1:C:673:GLN:CG	2.87	0.51
1:G:1899:LYS:HG3	1:G:1900:GLN:N	2.25	0.51
2:H:2150:ARG:HG3	2:H:2167:VAL:HG22	1.92	0.51
2:H:2280:ILE:HG23	2:H:2280:ILE:O	2.11	0.51
1:I:2312:TYR:CZ	1:I:2341:LEU:CD2	2.93	0.51
1:I:2449:LEU:HD11	1:I:2451:ASP:O	2.10	0.51
2:J:2568:LEU:HD12	2:J:2569:PRO:CD	2.32	0.51
1:K:2924:CYS:O	1:K:2952:ARG:HG3	2.11	0.51
1:K:3093:LEU:HD21	1:K:3096:LEU:HB3	1.84	0.51
1:A:238:LEU:HD21	1:A:241:LEU:CD2	2.40	0.51
2:B:293:THR:HG23	2:B:294:ALA:N	2.26	0.51
2:D:895:PHE:HB2	2:D:901:VAL:HA	1.91	0.51
2:D:947:ILE:HG13	2:D:1030:LEU:HD21	1.92	0.51
2:D:1085:LEU:HA	2:D:1091:TYR:CD1	2.46	0.51
2:D:1091:TYR:CE2	1:E:1357:GLU:CB	2.93	0.51
1:E:1209:PHE:HZ	1:E:1254:GLU:HB3	1.76	0.51
1:E:1234:LEU:HD22	1:E:1269:LEU:HD21	1.92	0.51
1:G:1725:PHE:CD1	1:G:1726:GLY:N	2.79	0.51
1:G:1803:ILE:HD11	1:G:1883:LEU:CG	2.40	0.51
1:I:2376:LEU:HD23	1:I:2454:LEU:HA	1.93	0.51
1:I:2454:LEU:HD12	1:I:2454:LEU:N	2.26	0.51
1:K:2920:ILE:HG12	1:K:2962:PHE:HZ	1.76	0.51
1:K:2958:LEU:O	1:K:2961:ILE:HG12	2.10	0.51
1:A:235:LEU:CD2	2:B:504:ALA:HB2	2.31	0.51
2:B:360:ARG:HD3	2:B:361:LYS:N	2.24	0.51
2:F:1474:GLN:O	2:F:1532:PRO:HG2	2.11	0.51
2:F:1538:LEU:HD11	2:F:1545:ARG:CB	2.39	0.51
1:G:1762:VAL:O	1:G:1762:VAL:HG13	2.10	0.51
1:G:1957:ALA:O	1:G:1960:ILE:HG23	2.09	0.51
2:H:2035:ILE:CG2	2:H:2064:ILE:HD11	2.30	0.51
1:I:2332:ILE:HG23	1:I:2332:ILE:O	2.09	0.51
2:J:2798:LEU:HD12	2:J:2804:TYR:CD2	2.45	0.51
1:K:2890:ARG:NH1	1:K:2906:GLY:HA2	2.25	0.51
1:A:27:LEU:HD12	1:A:55:HIS:O	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:186:LYS:HA	1:A:186:LYS:CE	2.41	0.51
1:G:1752:PHE:HB3	1:G:1776:LYS:CG	2.41	0.51
1:G:1787:ARG:O	1:G:1807:ILE:HG22	2.10	0.51
2:J:2745:PHE:CB	2:J:2748:GLU:HB2	2.40	0.51
1:K:2913:ILE:HG23	1:K:2916:VAL:HB	1.91	0.51
1:K:2981:ILE:HG13	1:K:2982:LEU:N	2.26	0.51
1:A:91:THR:O	1:A:171:THR:HG22	2.11	0.51
1:C:684:ASP:OD1	1:C:688:ARG:HG3	2.11	0.51
1:E:1389:ILE:HD13	1:E:1392:GLN:CD	2.35	0.51
2:F:1455:PHE:CZ	2:F:1457:VAL:CG2	2.94	0.51
1:G:1809:PHE:CD1	1:G:1832:LEU:HD11	2.46	0.51
1:G:1839:ILE:HD13	1:G:1839:ILE:C	2.35	0.51
1:G:1951:LEU:O	2:H:2216:GLU:HB3	2.11	0.51
1:G:1971:THR:HG22	2:H:2253:GLN:NE2	2.26	0.51
2:H:2028:VAL:HG22	2:H:2052:GLY:O	2.10	0.51
2:H:2234:ILE:HD12	2:H:2235:LYS:HA	1.93	0.51
1:A:74:ARG:HG3	1:A:119:LEU:HD23	1.92	0.51
2:B:456:ILE:HG23	2:B:456:ILE:O	2.10	0.51
2:B:469:VAL:HG13	2:B:470:GLU:N	2.26	0.51
1:E:1220:VAL:HG13	1:E:1220:VAL:O	2.11	0.51
1:E:1260:VAL:HG21	1:E:1303:PHE:CD2	2.46	0.51
1:E:1268:ILE:CD1	1:E:1296:LEU:HD13	2.41	0.51
1:E:1276:PHE:CE2	1:E:1288:VAL:CG2	2.94	0.51
1:G:1763:VAL:HG23	1:G:1768:HIS:CE1	2.46	0.51
2:H:2105:MET:HG3	2:H:2113:TYR:CE1	2.46	0.51
1:I:2382:PRO:HB2	1:I:2387:LEU:HD21	1.93	0.51
1:I:2462:GLU:HA	1:I:2465:GLU:CG	2.40	0.51
2:J:2733:LEU:CD1	2:J:2735:LEU:HD23	2.41	0.51
1:K:3091:ILE:HG23	1:K:3092:GLU:N	2.25	0.51
1:C:681:ILE:HD12	1:C:685:TYR:CB	2.32	0.50
2:D:894:PHE:HZ	2:D:914:ARG:HG2	1.75	0.50
2:D:995:GLN:O	2:D:999:GLN:HB2	2.11	0.50
2:F:1586:ALA:HB1	2:F:1591:LEU:CD2	2.40	0.50
2:F:1664:LYS:O	2:F:1668:ILE:HG12	2.11	0.50
2:H:2045:GLN:HA	2:H:2103:PRO:HB2	1.92	0.50
2:H:2090:SER:OG	2:H:2170:THR:HB	2.10	0.50
2:J:2635:ILE:HG23	2:J:2635:ILE:O	2.11	0.50
2:J:2680:LEU:HB3	2:J:2684:TYR:HD1	1.75	0.50
2:J:2829:LEU:HD22	2:J:2829:LEU:N	2.26	0.50
1:K:3030:PHE:O	1:K:3034:PHE:HB2	2.11	0.50
1:A:88:VAL:HG13	1:A:88:VAL:O	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:228:LEU:HG	1:A:235:LEU:HD13	1.92	0.50
1:E:1325:VAL:HG23	1:E:1326:GLU:N	2.26	0.50
2:F:1694:LEU:HD12	2:F:1694:LEU:N	2.26	0.50
1:G:1732:ALA:HA	1:G:1735:VAL:HG12	1.92	0.50
1:G:1847:PHE:HZ	1:G:1855:GLN:HG2	1.74	0.50
1:G:1912:VAL:HG13	1:G:1913:VAL:N	2.25	0.50
2:J:2740:ILE:O	2:J:2740:ILE:HG13	2.11	0.50
2:B:381:LEU:N	2:B:381:LEU:HD12	2.26	0.50
1:C:697:ILE:CD1	1:C:725:LEU:HA	2.40	0.50
2:D:894:PHE:CE2	2:D:919:GLN:CD	2.89	0.50
2:D:922:ILE:CD1	2:D:964:TYR:CE2	2.93	0.50
2:D:975:VAL:O	2:D:979:ILE:HD13	2.11	0.50
1:E:1278:ALA:HA	1:E:1281:LEU:HG	1.93	0.50
1:G:1819:ILE:CG2	1:G:1827:TYR:CD1	2.95	0.50
2:H:2101:GLU:HB2	2:H:2161:SER:HB3	1.93	0.50
1:I:2322:ILE:HG23	1:I:2330:GLN:HB2	1.93	0.50
1:I:2372:VAL:HG13	1:I:2457:LEU:CD2	2.42	0.50
1:I:2394:ILE:CG2	1:I:2398:TYR:HA	2.39	0.50
1:I:2406:ILE:O	1:I:2409:GLU:HG2	2.12	0.50
1:I:2462:GLU:HA	1:I:2465:GLU:HG2	1.93	0.50
2:J:2568:LEU:HG	2:J:2569:PRO:N	2.27	0.50
2:J:2606:ILE:HB	2:J:2637:TYR:CE2	2.42	0.50
2:J:2806:LYS:O	2:J:2809:LYS:HB2	2.11	0.50
1:K:2912:LEU:CD2	1:K:2919:PRO:HD3	2.41	0.50
1:A:22:VAL:HG23	1:A:23:VAL:N	2.26	0.50
2:B:304:VAL:HG13	2:B:305:ALA:N	2.26	0.50
2:B:389:LEU:HB2	2:B:390:PRO:CD	2.42	0.50
2:B:527:ARG:O	2:B:527:ARG:HD3	2.11	0.50
1:C:593:VAL:HG13	1:C:594:VAL:N	2.25	0.50
1:C:802:ALA:CB	1:C:806:LEU:CD1	2.89	0.50
2:D:895:PHE:HB3	2:D:901:VAL:HA	1.92	0.50
1:E:1378:ILE:CD1	1:E:1381:ARG:HD2	2.42	0.50
1:E:1378:ILE:HG23	1:E:1379:GLU:N	2.26	0.50
2:F:1538:LEU:HD23	2:F:1589:PHE:CZ	2.46	0.50
2:F:1665:LEU:HD22	1:G:1931:SER:H	1.76	0.50
1:G:1799:GLN:OE1	1:G:1799:GLN:HA	2.11	0.50
1:G:1951:LEU:CB	2:H:2216:GLU:C	2.84	0.50
1:I:2431:SER:HA	1:I:2454:LEU:HD11	1.92	0.50
2:J:2619:ILE:O	2:J:2619:ILE:HG12	2.12	0.50
2:J:2648:SER:HB2	2:J:2697:LEU:HD23	1.94	0.50
2:J:2774:LYS:O	2:J:2774:LYS:HD3	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:2782:VAL:HG23	2:J:2783:GLN:N	2.26	0.50
1:K:2974:LEU:O	1:K:2978:THR:HG22	2.11	0.50
1:A:39:PHE:CE1	1:A:65:ILE:CG1	2.95	0.50
2:B:285:PRO:O	2:B:286:ALA:HB2	2.11	0.50
2:B:324:PHE:HB2	2:B:351:ILE:HD11	1.94	0.50
2:D:906:ILE:HD11	2:D:958:GLN:HA	1.90	0.50
1:E:1230:VAL:O	1:E:1230:VAL:HG23	2.10	0.50
1:E:1260:VAL:HG21	1:E:1303:PHE:CE2	2.46	0.50
2:F:1581:GLU:O	2:F:1585:ARG:HG2	2.12	0.50
1:G:1944:ALA:HB1	1:G:1948:LEU:HD13	1.93	0.50
2:H:2214:GLU:O	2:H:2217:ALA:HB3	2.11	0.50
1:K:2949:ILE:CB	1:K:2951:PHE:CE2	2.94	0.50
1:A:163:LEU:HD22	1:A:163:LEU:N	2.25	0.50
1:C:665:ILE:CG2	1:C:667:PHE:CD1	2.94	0.50
2:F:1476:THR:HG23	2:F:1476:THR:O	2.11	0.50
1:G:1839:ILE:HG23	1:G:1840:LEU:N	2.25	0.50
2:H:2150:ARG:HB2	2:H:2167:VAL:CG2	2.41	0.50
1:I:2368:ASP:O	1:I:2369:LEU:HB2	2.12	0.50
2:J:2654:ASP:O	2:J:2655:LEU:HB3	2.12	0.50
1:C:709:GLU:HG3	1:C:713:GLN:CB	2.41	0.50
2:D:964:TYR:HE1	2:D:969:LEU:CG	2.20	0.50
2:D:1088:ASN:HB2	2:D:1089:PRO:CD	2.41	0.50
2:D:1094:LEU:CD1	2:D:1097:ILE:CG2	2.90	0.50
1:E:1221:ILE:CG2	1:E:1231:ASN:HD21	2.22	0.50
2:F:1708:LEU:HD22	2:F:1708:LEU:N	2.26	0.50
1:G:1725:PHE:HD1	1:G:1726:GLY:H	1.59	0.50
2:H:2028:VAL:HG23	2:H:2052:GLY:H	1.77	0.50
2:J:2806:LYS:HD3	2:J:2806:LYS:C	2.37	0.50
1:A:49:VAL:O	1:A:49:VAL:HG13	2.12	0.50
1:A:54:THR:HG23	1:A:54:THR:O	2.12	0.50
2:D:1031:SER:HG	2:D:1036:TYR:CB	2.24	0.50
1:E:1199:LEU:HB3	1:E:1204:GLN:CG	2.42	0.50
2:F:1468:ARG:HB2	2:F:1489:PHE:HD1	1.77	0.50
1:G:1818:ARG:HA	1:G:1821:THR:HG22	1.93	0.50
2:H:2265:LEU:HB3	2:H:2267:LEU:CD1	2.36	0.50
1:I:2487:ALA:HA	1:I:2490:GLN:HE21	1.77	0.50
1:I:2512:LEU:CD1	1:I:2523:ARG:HD3	2.42	0.50
2:J:2593:ARG:HD3	2:J:2593:ARG:C	2.36	0.50
2:J:2597:PHE:C	2:J:2597:PHE:CD1	2.90	0.50
2:J:2733:LEU:HD12	2:J:2735:LEU:CD2	2.41	0.50
2:B:524:ARG:CD	1:C:785:ALA:HB1	2.42	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:681:ILE:HG13	1:C:685:TYR:CB	2.40	0.50
1:C:799:LEU:CD2	1:C:806:LEU:HD22	2.42	0.50
1:C:831:LEU:H	1:C:831:LEU:CD2	2.19	0.50
2:D:1007:ILE:HG23	2:D:1008:ARG:N	2.27	0.50
2:F:1486:ILE:HD11	2:F:1490:GLN:HE21	1.76	0.50
2:F:1579:ARG:C	2:F:1582:LEU:HG	2.37	0.50
2:H:2028:VAL:HG23	2:H:2028:VAL:O	2.12	0.50
1:I:2341:LEU:O	1:I:2343:PRO:HD3	2.12	0.50
2:J:2646:ILE:HD13	2:J:2647:SER:N	2.27	0.50
2:B:385:ASN:ND2	2:B:388:GLU:HB3	2.23	0.49
1:C:681:ILE:CG1	1:C:685:TYR:HB3	2.41	0.49
2:D:1087:LYS:HB3	2:D:1091:TYR:CD2	2.47	0.49
1:E:1380:LEU:HG	2:F:1649:ALA:HB2	1.91	0.49
1:G:1941:LEU:CA	1:G:1948:LEU:HD23	2.30	0.49
2:H:2035:ILE:HD11	2:H:2043:VAL:HG13	1.92	0.49
1:I:2431:SER:HA	1:I:2454:LEU:CD1	2.42	0.49
1:I:2457:LEU:C	1:I:2458:THR:HG23	2.36	0.49
1:K:2912:LEU:O	1:K:2914:PRO:HD3	2.12	0.49
1:A:102:GLN:O	1:A:106:ILE:HG13	2.11	0.49
1:C:662:THR:HG23	1:C:662:THR:O	2.11	0.49
2:D:889:GLY:O	2:D:926:ILE:HB	2.12	0.49
1:G:1917:GLU:O	1:G:1920:LYS:HG2	2.11	0.49
2:H:2035:ILE:CG2	2:H:2064:ILE:HG12	2.40	0.49
1:I:2313:ASN:HD22	1:I:2338:THR:HG22	1.78	0.49
1:I:2383:VAL:HG23	1:I:2386:GLN:CB	2.40	0.49
2:J:2614:VAL:HG23	2:J:2614:VAL:O	2.12	0.49
2:J:2680:LEU:HD21	2:J:2687:ARG:HB3	1.94	0.49
1:K:2882:LEU:HD23	1:K:2882:LEU:C	2.36	0.49
1:K:2892:VAL:CG1	1:K:2922:PHE:CZ	2.95	0.49
1:A:6:PHE:O	1:A:9:ILE:HB	2.11	0.49
1:A:146:VAL:HG13	1:A:147:SER:N	2.26	0.49
2:B:424:GLN:O	2:B:428:GLN:HB2	2.12	0.49
1:C:710:LEU:HG	1:C:744:LEU:CD1	2.41	0.49
1:C:816:GLU:HG2	1:C:820:TYR:CD1	2.47	0.49
2:D:869:LEU:HD23	2:D:869:LEU:C	2.37	0.49
2:D:875:VAL:HG13	2:D:876:ALA:N	2.27	0.49
1:G:1767:THR:HG23	1:G:1767:THR:O	2.11	0.49
2:H:2045:GLN:HG2	2:H:2107:GLN:NE2	2.28	0.49
1:K:2969:TYR:HE2	1:K:3018:LEU:CD1	2.22	0.49
1:K:3083:LEU:CA	1:K:3090:LEU:HD23	2.31	0.49
2:B:498:VAL:HG23	2:B:499:GLN:N	2.26	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:663:LEU:CG	1:C:698:LEU:HD22	2.42	0.49
2:D:901:VAL:HG23	2:D:901:VAL:O	2.12	0.49
2:D:996:LEU:CD2	2:D:1003:VAL:HG21	2.42	0.49
2:F:1662:TYR:C	2:F:1665:LEU:HD23	2.37	0.49
1:G:1832:LEU:CB	1:G:1833:PRO:HD3	2.39	0.49
1:G:1971:THR:HG21	2:H:2253:GLN:OE1	2.13	0.49
2:H:2223:LEU:HD13	1:I:2495:ILE:HA	1.95	0.49
2:H:2249:ILE:HG23	2:H:2250:ALA:N	2.27	0.49
1:I:2387:LEU:HB2	1:I:2388:PRO:HD3	1.94	0.49
1:C:690:LEU:HB3	1:C:691:PRO:HD3	1.94	0.49
2:D:992:ASN:CG	2:D:995:GLN:HG2	2.36	0.49
2:F:1662:TYR:O	2:F:1665:LEU:CG	2.61	0.49
2:F:1662:TYR:O	2:F:1665:LEU:HG	2.13	0.49
2:J:2798:LEU:HD13	2:J:2808:ARG:HD3	1.94	0.49
1:A:258:THR:HG22	1:A:259:TYR:N	2.27	0.49
1:C:716:LEU:HD23	1:C:716:LEU:C	2.38	0.49
1:C:827:ASN:HD21	2:D:1111:GLN:N	2.10	0.49
1:E:1200:ILE:HB	1:E:1203:VAL:HG21	1.94	0.49
1:E:1377:LEU:CA	2:F:1646:ALA:CB	2.77	0.49
2:H:2057:ILE:HG23	2:H:2058:PRO:HD2	1.95	0.49
1:I:2403:LEU:HB3	1:I:2404:PRO:CD	2.33	0.49
2:J:2716:VAL:HG13	2:J:2717:SER:N	2.28	0.49
1:K:2893:ILE:CG2	1:K:2917:GLN:CG	2.91	0.49
2:B:388:GLU:HG3	2:B:391:SER:HB2	1.94	0.49
1:C:669:PRO:HB3	1:C:685:TYR:OH	2.13	0.49
1:C:806:LEU:HD11	2:D:1072:GLU:CA	2.42	0.49
1:C:830:TYR:C	1:C:830:TYR:CD1	2.90	0.49
2:D:969:LEU:C	2:D:971:TYR:H	2.20	0.49
2:D:1094:LEU:CD1	2:D:1097:ILE:HG21	2.43	0.49
2:F:1538:LEU:HD12	2:F:1542:TYR:CA	2.42	0.49
1:G:1823:ILE:HG23	1:G:1874:PHE:HE1	1.76	0.49
1:I:2479:ARG:O	1:I:2483:VAL:HG23	2.13	0.49
2:J:2690:PRO:C	2:J:2693:VAL:HG12	2.38	0.49
2:J:2798:LEU:CD1	2:J:2805:ILE:HA	2.43	0.49
1:K:2922:PHE:CG	1:K:2958:LEU:CD1	2.95	0.49
1:A:37:VAL:O	1:A:37:VAL:HG23	2.13	0.49
1:C:778:LYS:HD2	1:C:778:LYS:C	2.38	0.49
1:C:837:VAL:HG12	1:C:839:LEU:HG	1.93	0.49
2:D:915:ILE:CG2	2:D:919:GLN:HG3	2.39	0.49
2:D:1025:VAL:O	2:D:1025:VAL:HG23	2.11	0.49
1:E:1362:ALA:O	1:E:1366:ILE:HG13	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:1576:LEU:HD13	2:F:1576:LEU:O	2.13	0.49
1:G:1807:ILE:CG1	1:G:1878:LEU:CD1	2.91	0.49
2:H:2195:ALA:O	2:H:2198:LEU:HD23	2.13	0.49
2:H:2253:GLN:OE1	1:I:2538:SER:HA	2.13	0.49
2:J:2608:PHE:CE2	2:J:2633:TYR:CB	2.94	0.49
1:A:127:LEU:HD11	1:A:131:VAL:HG21	1.94	0.49
1:A:139:LEU:HG	1:A:173:LEU:CD2	2.43	0.49
1:A:151:SER:HB3	1:A:168:VAL:CG1	2.42	0.49
2:B:449:LEU:HD22	2:B:450:ILE:H	1.78	0.49
1:C:690:LEU:HD23	1:C:690:LEU:O	2.13	0.49
1:C:735:ILE:HD13	1:C:735:ILE:H	1.78	0.49
1:C:736:LEU:HD12	1:C:736:LEU:N	2.28	0.49
2:D:954:ARG:NH1	2:D:1021:ILE:HG21	2.28	0.49
2:D:1097:ILE:CG2	2:D:1098:ARG:N	2.76	0.49
1:E:1191:VAL:O	1:E:1191:VAL:HG23	2.13	0.49
1:E:1370:LEU:HD23	1:E:1374:GLY:O	2.13	0.49
1:G:1807:ILE:HG12	1:G:1878:LEU:CD1	2.42	0.49
1:G:1944:ALA:CB	1:G:1948:LEU:CB	2.91	0.49
2:H:2230:ASN:ND2	2:H:2232:GLY:H	2.11	0.49
2:H:2236:LEU:CG	2:H:2239:ILE:HD12	2.43	0.49
1:I:2380:PHE:CE1	1:I:2447:LEU:HD23	2.47	0.49
1:I:2397:ASP:O	1:I:2400:GLU:HG3	2.11	0.49
1:K:2994:LEU:HB3	1:K:3028:LEU:HD11	1.95	0.49
1:A:168:VAL:HG13	1:A:168:VAL:O	2.13	0.49
1:A:173:LEU:HD12	1:A:173:LEU:N	2.28	0.49
1:A:228:LEU:HD21	1:A:239:ARG:HD3	1.95	0.49
1:A:238:LEU:HD21	1:A:241:LEU:HD23	1.94	0.49
2:B:523:LEU:HD11	2:B:526:ILE:HG12	1.95	0.49
2:B:557:GLU:HG3	2:B:557:GLU:O	2.12	0.49
1:C:667:PHE:CZ	1:C:690:LEU:CD1	2.95	0.49
2:D:949:LEU:HB2	2:D:984:LEU:HD11	1.95	0.49
2:D:950:ARG:HE	2:D:952:LEU:HD11	1.78	0.49
2:D:985:LYS:O	2:D:988:VAL:HG12	2.13	0.49
2:D:1091:TYR:HE2	1:E:1357:GLU:CB	2.26	0.49
1:E:1296:LEU:HD23	1:E:1307:LEU:CD1	2.38	0.49
2:F:1472:VAL:HG11	2:F:1535:TYR:CD2	2.48	0.49
2:F:1520:LEU:HD11	2:F:1555:LEU:HD12	1.95	0.49
2:F:1676:LYS:HA	1:G:1963:GLN:OE1	2.12	0.49
1:G:1847:PHE:CD2	1:G:1851:GLU:HB3	2.48	0.49
1:I:2341:LEU:HD21	1:I:2348:PRO:CG	2.42	0.49
1:I:2349:ILE:HD11	1:I:2391:PHE:CD2	2.48	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:2543:TYR:HB2	1:I:2545:PRO:HD3	1.94	0.49
1:K:2974:LEU:HD22	1:K:2974:LEU:N	2.28	0.49
1:A:122:ILE:O	1:A:126:ILE:HG12	2.13	0.48
1:A:231:ALA:HB3	1:A:235:LEU:CB	2.43	0.48
1:A:253:ARG:HD3	1:K:3110:ARG:HA	1.93	0.48
2:B:432:VAL:HG13	2:B:433:SER:N	2.28	0.48
1:C:806:LEU:HG	2:D:1072:GLU:HA	1.94	0.48
2:F:1603:PHE:CD2	2:F:1606:GLU:CB	2.93	0.48
1:G:1732:ALA:O	1:G:1735:VAL:HG13	2.13	0.48
1:G:1797:ASP:O	1:G:1798:LEU:HB2	2.13	0.48
1:G:1864:SER:OG	1:G:1881:VAL:HB	2.12	0.48
2:H:2001:PRO:HB3	2:H:2004:MET:CE	2.43	0.48
2:H:2239:ILE:O	2:H:2243:GLN:HG3	2.12	0.48
1:I:2372:VAL:CG1	1:I:2457:LEU:CD2	2.91	0.48
1:I:2515:ALA:CB	1:I:2519:LEU:CG	2.90	0.48
2:J:2607:PHE:CZ	2:J:2620:LEU:CD2	2.93	0.48
2:J:2670:ALA:C	2:J:2673:LEU:HD23	2.39	0.48
1:A:79:ILE:HD11	1:A:89:ASN:ND2	2.29	0.48
1:A:217:ASP:O	1:K:3093:LEU:CB	2.61	0.48
2:D:906:ILE:HD11	2:D:958:GLN:C	2.37	0.48
2:D:1087:LYS:HD2	2:D:1091:TYR:HD2	1.78	0.48
2:F:1485:ARG:NH2	2:F:1492:PRO:HD2	2.28	0.48
1:I:2403:LEU:O	1:I:2407:THR:HG22	2.13	0.48
2:J:2614:VAL:HG11	2:J:2677:TYR:CE1	2.48	0.48
2:J:2793:MET:CE	1:K:3062:LYS:HB2	2.43	0.48
1:K:2965:ILE:CG2	1:K:2969:TYR:HB2	2.43	0.48
1:K:3009:LEU:HD13	1:K:3009:LEU:C	2.38	0.48
1:K:3094:ARG:HG3	1:K:3095:LYS:N	2.28	0.48
1:A:57:LEU:HD13	1:A:64:PRO:CD	2.44	0.48
1:A:151:SER:CA	1:A:168:VAL:HG11	2.41	0.48
2:B:514:LEU:HD22	2:B:514:LEU:C	2.37	0.48
2:D:1004:SER:HB2	2:D:1027:ILE:HD13	1.95	0.48
1:I:2415:VAL:HG13	1:I:2416:ALA:N	2.28	0.48
1:I:2522:LEU:HD22	2:J:2791:ALA:HB2	1.95	0.48
1:K:2885:VAL:HG13	1:K:2885:VAL:O	2.12	0.48
2:B:364:SER:HB2	2:B:410:ASN:HD21	1.79	0.48
2:F:1457:VAL:HG12	2:F:1458:GLU:O	2.14	0.48
2:H:2045:GLN:HG2	2:H:2107:GLN:HE22	1.78	0.48
1:I:2293:ILE:HD13	1:I:2293:ILE:C	2.37	0.48
1:I:2322:ILE:HG23	1:I:2322:ILE:O	2.11	0.48
1:I:2515:ALA:HB3	1:I:2519:LEU:CB	2.43	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:2519:LEU:HD22	2:J:2785:GLU:HA	1.92	0.48
1:A:78:VAL:CG1	1:A:90:ILE:HD11	2.41	0.48
1:A:110:ILE:CG1	1:A:114:TYR:HB3	2.43	0.48
1:A:177:LYS:HB2	1:A:177:LYS:NZ	2.28	0.48
2:B:523:LEU:C	1:C:788:ASP:HB3	2.38	0.48
1:C:753:ALA:HB1	1:C:757:LYS:HZ1	1.78	0.48
2:D:915:ILE:C	2:D:915:ILE:HD13	2.37	0.48
1:E:1380:LEU:CB	2:F:1646:ALA:HA	2.42	0.48
2:F:1690:ASP:CG	2:F:1692:LEU:HD11	2.39	0.48
1:G:1847:PHE:CZ	1:G:1855:GLN:HG2	2.48	0.48
2:H:2017:VAL:O	2:H:2021:VAL:HG23	2.14	0.48
2:H:2258:LEU:HD23	2:H:2259:THR:O	2.14	0.48
1:I:2321:VAL:CG1	1:I:2349:ILE:CG1	2.91	0.48
2:J:2828:TYR:CE2	2:J:2830:THR:HG23	2.48	0.48
1:A:238:LEU:HD12	1:A:238:LEU:HA	1.80	0.48
2:B:343:ARG:HD3	2:B:350:PRO:HD3	1.95	0.48
2:B:412:VAL:O	2:B:416:VAL:HG23	2.13	0.48
1:C:606:ARG:HG2	1:C:640:CYS:SG	2.53	0.48
1:C:609:ILE:O	1:C:609:ILE:HG23	2.13	0.48
1:C:809:LEU:CB	2:D:1074:GLU:O	2.61	0.48
1:E:1200:ILE:HB	1:E:1203:VAL:CG2	2.43	0.48
2:F:1498:ARG:HG2	2:F:1499:ALA:N	2.27	0.48
2:F:1503:LYS:N	2:F:1503:LYS:HD2	2.28	0.48
2:F:1540:LEU:H	2:F:1540:LEU:CD2	2.26	0.48
2:F:1662:TYR:CE2	1:G:1928:GLU:CB	2.95	0.48
2:F:1665:LEU:CD1	1:G:1927:ALA:O	2.59	0.48
1:G:1801:VAL:HG23	1:G:1801:VAL:O	2.13	0.48
2:H:2051:GLU:H	2:H:2051:GLU:CD	2.21	0.48
1:K:2883:TYR:HD1	1:K:2884:ASN:H	1.60	0.48
1:K:2892:VAL:HG13	1:K:2920:ILE:HB	1.89	0.48
1:K:2993:GLU:O	1:K:2997:GLN:HB2	2.14	0.48
1:K:3086:ALA:CB	1:K:3090:LEU:CB	2.91	0.48
1:A:60:TRP:CD1	1:A:61:VAL:HG13	2.48	0.48
2:B:520:TYR:C	1:C:789:SER:HB2	2.38	0.48
1:C:802:ALA:CB	1:C:806:LEU:CB	2.91	0.48
2:D:1030:LEU:O	2:D:1031:SER:HB2	2.13	0.48
1:G:1785:ARG:O	1:G:1808:LEU:HD12	2.14	0.48
1:G:1888:PHE:CB	1:G:1891:GLU:HB2	2.35	0.48
2:H:2206:GLN:O	2:H:2210:ILE:HG13	2.13	0.48
2:H:2229:LYS:HB3	2:H:2233:TYR:CE1	2.48	0.48
2:H:2237:ARG:HG3	1:I:2498:ALA:HB1	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:2733:LEU:HD13	2:J:2733:LEU:C	2.38	0.48
1:K:2973:VAL:HG23	1:K:2974:LEU:N	2.28	0.48
1:K:3053:PHE:HB3	1:K:3057:LYS:HZ1	1.75	0.48
2:B:414:LYS:O	2:B:417:VAL:HG22	2.13	0.48
2:B:532:ILE:CD1	2:B:536:ILE:CG1	2.92	0.48
2:D:996:LEU:O	2:D:1000:ARG:HD2	2.13	0.48
2:D:1018:PHE:O	2:D:1019:SER:HB2	2.14	0.48
1:E:1179:VAL:HG13	1:E:1179:VAL:O	2.14	0.48
1:G:1818:ARG:C	1:G:1821:THR:HG22	2.39	0.48
1:I:2442:ALA:CB	1:I:2447:LEU:HD21	2.43	0.48
2:J:2677:TYR:CD1	2:J:2677:TYR:C	2.92	0.48
1:A:231:ALA:CB	1:A:235:LEU:HB2	2.44	0.48
2:B:527:ARG:HB2	1:C:788:ASP:CB	2.43	0.48
2:B:540:GLN:O	2:J:2827:ILE:HG21	2.14	0.48
1:C:799:LEU:HD21	1:C:810:ARG:CD	2.36	0.48
2:D:915:ILE:CA	2:D:919:GLN:HG3	2.43	0.48
1:E:1201:PRO:HB2	1:E:1202:TRP:CE3	2.49	0.48
1:E:1234:LEU:HD11	1:E:1310:VAL:HG12	1.94	0.48
2:H:2241:ALA:O	2:H:2245:ILE:HG23	2.14	0.48
2:J:2599:VAL:CG2	2:J:2622:GLU:HA	2.39	0.48
1:K:3029:THR:CG2	1:K:3030:PHE:N	2.77	0.48
1:K:3086:ALA:HB3	1:K:3090:LEU:CB	2.43	0.48
1:A:103:LEU:CB	1:A:104:PRO:HD3	2.42	0.48
1:A:191:GLN:HA	1:A:194:GLU:HG3	1.96	0.48
2:B:332:GLN:HA	2:B:390:PRO:HB2	1.93	0.48
1:C:806:LEU:CG	2:D:1072:GLU:HA	2.44	0.48
1:E:1181:PHE:CE2	1:E:1249:PHE:HE2	2.28	0.48
1:E:1289:SER:HA	1:E:1312:LEU:CD1	2.44	0.48
1:E:1297:THR:HG23	1:E:1298:GLU:N	2.29	0.48
2:F:1493:ILE:HG21	2:F:1540:LEU:CD1	2.44	0.48
2:F:1658:LYS:HB3	2:F:1662:TYR:CE1	2.49	0.48
2:F:1693:VAL:O	2:F:1693:VAL:HG23	2.14	0.48
2:H:2178:TYR:CE2	2:H:2182:VAL:HG21	2.48	0.48
2:J:2575:MET:HG3	2:J:2576:GLY:N	2.27	0.48
2:J:2689:LEU:CB	2:J:2690:PRO:HD3	2.33	0.48
1:K:2893:ILE:CG2	1:K:2917:GLN:HG2	2.42	0.48
1:K:3045:GLN:O	1:K:3049:GLU:HG3	2.14	0.48
2:B:330:VAL:HG13	2:B:330:VAL:O	2.14	0.47
2:B:336:LEU:HD23	2:B:341:HIS:CE1	2.48	0.47
2:B:527:ARG:HD3	2:B:527:ARG:C	2.39	0.47
1:C:573:ALA:O	1:C:576:VAL:HG22	2.13	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:813:GLU:HG3	1:C:814:ALA:N	2.28	0.47
2:D:914:ARG:HD3	2:D:919:GLN:HB2	1.95	0.47
2:F:1531:LEU:HD13	2:F:1534:MET:HE2	1.95	0.47
1:G:1750:VAL:CB	1:G:1820:PHE:CZ	2.85	0.47
1:I:2435:SER:CB	1:I:2452:VAL:CG1	2.92	0.47
1:I:2512:LEU:HD11	1:I:2520:ILE:HG12	1.95	0.47
2:J:2604:ARG:CD	2:J:2639:ILE:CG1	2.91	0.47
1:K:2900:VAL:HG11	1:K:2962:PHE:HD2	1.79	0.47
1:A:91:THR:HG22	1:A:171:THR:O	2.14	0.47
1:A:228:LEU:CG	1:A:235:LEU:HD13	2.43	0.47
1:A:259:TYR:CD1	1:A:259:TYR:C	2.93	0.47
1:C:632:VAL:HB	1:C:633:GLN:HE21	1.79	0.47
2:D:893:ILE:CG2	2:D:922:ILE:CG1	2.90	0.47
2:D:954:ARG:HH11	2:D:1021:ILE:HB	1.79	0.47
1:E:1233:THR:CG2	1:E:1314:HIS:HB2	2.44	0.47
1:E:1381:ARG:NH1	1:E:1382:LYS:HA	2.28	0.47
2:F:1635:GLN:O	2:F:1639:ILE:HD12	2.14	0.47
1:G:1859:VAL:HG13	1:G:1860:SER:N	2.29	0.47
2:H:2026:PHE:CD1	2:H:2027:THR:N	2.82	0.47
1:I:2368:ASP:HB2	1:I:2419:ASP:OD1	2.14	0.47
1:I:2380:PHE:CE1	1:I:2449:LEU:CB	2.96	0.47
2:J:2646:ILE:HD12	2:J:2648:SER:OG	2.14	0.47
2:J:2658:VAL:O	2:J:2658:VAL:HG13	2.13	0.47
2:J:2708:GLN:O	2:J:2712:GLN:HB2	2.14	0.47
1:K:2965:ILE:HB	1:K:2969:TYR:CB	2.45	0.47
1:K:2975:PRO:HA	1:K:2978:THR:HG22	1.96	0.47
1:A:151:SER:CB	1:A:168:VAL:HG12	2.44	0.47
1:A:228:LEU:HD12	1:A:235:LEU:HD13	1.95	0.47
1:A:240:LYS:O	1:A:240:LYS:HD3	2.13	0.47
2:B:321:ALA:HB2	2:B:352:ILE:CD1	2.44	0.47
2:B:417:VAL:HG23	2:B:418:ALA:N	2.30	0.47
2:B:523:LEU:CB	1:C:788:ASP:O	2.61	0.47
1:C:585:LEU:HD23	1:C:585:LEU:C	2.40	0.47
1:C:657:GLN:HA	1:C:657:GLN:NE2	2.25	0.47
2:D:1087:LYS:O	2:D:1091:TYR:CB	2.62	0.47
1:I:2383:VAL:HG21	1:I:2386:GLN:CG	2.44	0.47
1:I:2460:GLY:O	1:I:2463:PHE:HB3	2.14	0.47
2:J:2691:SER:HA	2:J:2694:ASN:ND2	2.29	0.47
1:C:662:THR:CG2	1:C:743:HIS:CD2	2.97	0.47
1:E:1377:LEU:HD23	1:E:1377:LEU:N	2.29	0.47
2:F:1582:LEU:HD21	2:F:1596:VAL:CB	2.44	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:1582:LEU:CD1	2:F:1593:LEU:HD22	2.17	0.47
1:G:1878:LEU:CD2	1:G:1881:VAL:CG2	2.92	0.47
2:H:2075:ILE:HD12	2:H:2119:PRO:HA	1.96	0.47
2:J:2603:HIS:HB3	2:J:2636:ILE:CG2	2.44	0.47
2:J:2627:ARG:HG3	2:J:2632:GLN:HB3	1.96	0.47
2:J:2698:LYS:O	2:J:2701:VAL:HG22	2.14	0.47
1:K:2953:PRO:HB3	1:K:2969:TYR:OH	2.14	0.47
1:K:2965:ILE:CG2	1:K:2969:TYR:CB	2.92	0.47
1:C:681:ILE:CD1	1:C:685:TYR:CB	2.92	0.47
1:C:809:LEU:HB3	2:D:1074:GLU:C	2.40	0.47
1:E:1284:GLN:HG2	1:E:1284:GLN:O	2.14	0.47
1:G:1860:SER:HA	1:G:1883:LEU:CD1	2.41	0.47
1:G:1962:TYR:CE1	1:G:1966:ARG:CZ	2.96	0.47
2:H:2242:ALA:O	2:H:2245:ILE:HG12	2.14	0.47
1:K:2945:ILE:CD1	1:K:3028:LEU:CD2	2.92	0.47
1:K:2947:LEU:HD11	1:K:2982:LEU:HD12	1.95	0.47
1:K:2954:VAL:CG2	1:K:2957:GLN:CB	2.93	0.47
1:A:60:TRP:CD1	1:A:61:VAL:CG1	2.96	0.47
2:B:385:ASN:HD21	2:B:388:GLU:CB	2.24	0.47
1:C:807:ILE:HG23	1:C:808:GLU:N	2.28	0.47
2:D:995:GLN:OE1	2:D:995:GLN:HA	2.14	0.47
1:E:1177:ARG:HG3	1:E:1211:CYS:SG	2.55	0.47
1:G:1847:PHE:CE2	1:G:1851:GLU:CG	2.98	0.47
1:G:1904:GLN:HE21	1:G:1904:GLN:HB3	1.50	0.47
2:H:2028:VAL:HG23	2:H:2052:GLY:N	2.30	0.47
1:I:2330:GLN:CD	1:I:2331:ASP:H	2.23	0.47
1:K:2959:PRO:O	1:K:2962:PHE:HB3	2.14	0.47
1:A:199:VAL:HG23	1:A:200:VAL:N	2.29	0.47
2:B:385:ASN:N	2:B:385:ASN:HD22	2.12	0.47
2:B:388:GLU:HB3	2:B:448:SER:HB3	1.96	0.47
2:B:400:TYR:CE1	2:B:404:VAL:HG11	2.49	0.47
1:C:743:HIS:HB2	1:C:750:PHE:HE1	1.80	0.47
2:D:1061:LYS:O	2:D:1065:ARG:HG3	2.13	0.47
2:D:1069:VAL:O	2:D:1072:GLU:HG2	2.15	0.47
1:E:1292:VAL:HG13	1:E:1293:SER:N	2.29	0.47
1:E:1399:ILE:HG22	1:E:1401:TYR:H	1.80	0.47
2:F:1477:ILE:CG1	2:F:1532:PRO:HD3	2.45	0.47
2:F:1504:ILE:HG21	2:F:1551:VAL:CG1	2.30	0.47
2:F:1522:VAL:HG12	2:F:1596:VAL:HG13	1.96	0.47
2:F:1586:ALA:HA	2:F:1591:LEU:HD21	1.97	0.47
1:G:1782:CYS:O	1:G:1810:ARG:HD3	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1809:PHE:CE1	1:G:1832:LEU:HD11	2.50	0.47
1:G:1874:PHE:HB3	1:G:1876:LEU:HD12	1.89	0.47
2:H:2047:THR:HG23	2:H:2047:THR:O	2.15	0.47
2:H:2230:ASN:HD22	2:H:2232:GLY:H	1.61	0.47
2:H:2233:TYR:O	1:I:2502:SER:HB3	2.15	0.47
1:I:2380:PHE:HE1	1:I:2449:LEU:CB	2.20	0.47
2:J:2804:TYR:C	1:K:3073:SER:HB2	2.40	0.47
1:K:2867:PHE:CZ	1:K:2871:LEU:HD22	2.50	0.47
1:K:2945:ILE:HD11	1:K:3028:LEU:HD21	1.97	0.47
1:A:60:TRP:CD1	1:A:60:TRP:C	2.92	0.47
2:B:308:VAL:HG13	2:B:309:ARG:N	2.29	0.47
1:C:617:GLN:OE1	1:C:617:GLN:HA	2.14	0.47
1:E:1261:LEU:HB3	1:E:1262:PRO:CD	2.33	0.47
2:F:1499:ALA:HB2	2:F:1525:ARG:CG	2.44	0.47
2:F:1589:PHE:HD1	2:F:1589:PHE:O	1.98	0.47
2:F:1658:LYS:HD3	2:F:1662:TYR:CE1	2.50	0.47
1:G:1807:ILE:HG23	1:G:1807:ILE:O	2.15	0.47
1:G:1951:LEU:HB2	2:H:2217:ALA:HA	1.96	0.47
2:H:2160:PHE:O	2:H:2161:SER:HB2	2.15	0.47
1:I:2322:ILE:CG2	1:I:2330:GLN:CB	2.92	0.47
1:I:2378:ILE:CG2	1:I:2449:LEU:HD13	2.43	0.47
1:I:2397:ASP:CG	1:I:2400:GLU:HG2	2.40	0.47
1:A:253:ARG:HG3	1:K:3111:ASN:ND2	2.30	0.47
2:B:543:ILE:HD12	2:H:2256:ILE:HG22	1.94	0.47
2:D:949:LEU:CD2	2:D:980:VAL:HG13	2.44	0.47
2:D:1022:LEU:CD2	2:D:1025:VAL:CG1	2.90	0.47
2:D:1094:LEU:CB	1:E:1359:ASP:O	2.63	0.47
2:F:1538:LEU:HD13	2:F:1538:LEU:C	2.39	0.47
2:F:1691:ASN:HD21	2:H:2261:ASP:HB3	1.78	0.47
2:H:2096:ARG:CD	2:H:2163:ILE:HD11	2.44	0.47
1:K:2892:VAL:HG13	1:K:2892:VAL:O	2.15	0.47
1:K:2965:ILE:CB	1:K:2969:TYR:HB2	2.45	0.47
1:A:151:SER:CB	1:A:168:VAL:CG1	2.93	0.47
1:A:235:LEU:CA	2:B:504:ALA:CB	2.78	0.47
2:B:523:LEU:HB3	1:C:788:ASP:OD1	2.15	0.47
2:D:884:PHE:CE2	2:D:914:ARG:NH2	2.83	0.47
1:E:1213:SER:HB3	1:E:1239:ARG:HH11	1.78	0.47
2:F:1574:VAL:HG13	2:F:1575:SER:N	2.30	0.47
2:F:1578:ILE:O	2:F:1582:LEU:HG	2.15	0.47
2:F:1603:PHE:O	2:F:1607:TYR:CD1	2.68	0.47
2:F:1627:LEU:HD23	2:F:1627:LEU:C	2.40	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:1665:LEU:CG	1:G:1927:ALA:O	2.63	0.47
1:G:1750:VAL:HG21	1:G:1820:PHE:CZ	2.49	0.47
2:H:2010:LEU:HD23	2:H:2010:LEU:C	2.40	0.47
2:H:2035:ILE:HG13	2:H:2103:PRO:CG	2.37	0.47
1:I:2514:THR:HG23	1:I:2515:ALA:N	2.29	0.47
2:J:2645:LYS:HD3	2:J:2645:LYS:N	2.22	0.47
1:K:2922:PHE:CE2	1:K:2958:LEU:CB	2.99	0.47
1:A:217:ASP:O	1:K:3093:LEU:HD13	2.15	0.46
2:B:406:PRO:O	2:B:409:VAL:HG12	2.15	0.46
2:D:940:LYS:HB2	2:D:989:ALA:O	2.15	0.46
2:D:1013:GLU:O	2:D:1016:LYS:HD3	2.15	0.46
1:E:1253:GLY:O	1:E:1256:TYR:CD1	2.68	0.46
1:E:1380:LEU:CD1	2:F:1645:GLU:CB	2.93	0.46
2:F:1555:LEU:CD2	2:F:1559:VAL:HG21	2.45	0.46
2:F:1662:TYR:O	2:F:1665:LEU:CD2	2.63	0.46
1:G:1803:ILE:HD11	1:G:1883:LEU:CB	2.44	0.46
1:G:1939:ASN:HD22	1:G:1939:ASN:HA	1.45	0.46
2:H:2036:PHE:HZ	2:H:2044:GLN:NE2	2.13	0.46
2:H:2037:PHE:CD2	2:H:2043:VAL:CG2	2.98	0.46
2:H:2118:LEU:O	2:H:2122:VAL:HG12	2.15	0.46
1:I:2522:LEU:CB	2:J:2787:GLU:O	2.63	0.46
1:A:224:ILE:HG22	1:A:228:LEU:HD13	1.97	0.46
1:C:690:LEU:O	1:C:694:THR:HG22	2.15	0.46
2:D:947:ILE:CD1	2:D:1027:ILE:CG2	2.94	0.46
2:D:1095:ARG:CB	1:E:1356:ALA:HB1	2.44	0.46
1:E:1245:LEU:CA	1:E:1248:ILE:CD1	2.89	0.46
1:E:1377:LEU:O	2:F:1646:ALA:HB2	2.15	0.46
1:E:1380:LEU:HD22	1:E:1380:LEU:HA	1.78	0.46
1:G:1980:LEU:HD23	1:G:1981:LEU:N	2.30	0.46
2:H:2079:THR:HG21	2:H:2127:LYS:HA	1.96	0.46
1:I:2357:PRO:HG3	1:I:2379:LEU:CD1	2.45	0.46
2:J:2807:LEU:CB	1:K:3072:ASP:O	2.61	0.46
2:J:2841:GLU:HG2	2:J:2842:SER:C	2.39	0.46
1:A:195:ARG:O	1:A:199:VAL:HG13	2.15	0.46
1:A:217:ASP:CB	1:K:3097:GLU:HB2	2.46	0.46
2:B:389:LEU:N	2:B:390:PRO:HD2	2.31	0.46
2:D:894:PHE:CZ	2:D:914:ARG:HG2	2.50	0.46
2:D:896:ASN:HD22	2:D:896:ASN:N	2.14	0.46
2:D:975:VAL:CG1	2:D:979:ILE:HD13	2.45	0.46
2:D:1062:GLN:O	2:D:1066:GLN:HG2	2.15	0.46
2:D:1094:LEU:CD2	1:E:1363:ALA:CB	2.93	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:1418:ASN:O	2:F:1419:LEU:HD22	2.14	0.46
2:F:1495:TYR:OH	2:F:1540:LEU:HA	2.15	0.46
1:I:2293:ILE:HG23	1:I:2294:GLY:N	2.29	0.46
1:I:2321:VAL:HG12	1:I:2351:PHE:HE1	1.81	0.46
1:A:199:VAL:O	1:A:202:LYS:HG2	2.15	0.46
1:A:228:LEU:HD23	1:A:236:ILE:CA	2.40	0.46
2:B:364:SER:HB2	2:B:410:ASN:ND2	2.30	0.46
1:C:671:ALA:C	1:C:674:LEU:HD13	2.40	0.46
2:F:1538:LEU:HB2	2:F:1589:PHE:CE1	2.51	0.46
2:F:1693:VAL:C	2:F:1694:LEU:HD12	2.41	0.46
1:G:1746:GLY:O	1:G:1782:CYS:HB3	2.16	0.46
1:G:1752:PHE:CD2	1:G:1778:ILE:CD1	2.98	0.46
1:G:1951:LEU:CB	2:H:2216:GLU:O	2.63	0.46
2:H:2236:LEU:CB	1:I:2501:ASP:O	2.62	0.46
2:J:2615:GLN:HG2	2:J:2617:ASP:HB2	1.97	0.46
1:A:231:ALA:HB3	1:A:235:LEU:HB2	1.97	0.46
2:B:495:GLN:OE1	2:B:495:GLN:HA	2.15	0.46
2:D:945:VAL:HG23	2:D:945:VAL:O	2.14	0.46
2:D:979:ILE:HD12	2:D:979:ILE:N	2.31	0.46
2:D:1091:TYR:CE2	1:E:1357:GLU:CA	2.98	0.46
2:F:1665:LEU:CD2	1:G:1931:SER:N	2.78	0.46
2:H:2091:LEU:HD13	2:H:2091:LEU:C	2.39	0.46
2:H:2227:LEU:HB3	2:H:2234:ILE:CG2	2.45	0.46
1:I:2349:ILE:HG13	1:I:2351:PHE:CE1	2.51	0.46
1:I:2439:THR:HG23	1:I:2440:GLU:N	2.30	0.46
2:J:2733:LEU:HD13	2:J:2734:ILE:O	2.16	0.46
1:A:60:TRP:HD1	1:A:61:VAL:HG13	1.81	0.46
2:B:343:ARG:HD2	2:B:350:PRO:HG3	1.98	0.46
2:B:426:ILE:HG23	2:B:427:THR:HG23	1.98	0.46
1:C:690:LEU:C	1:C:690:LEU:CD2	2.89	0.46
2:F:1520:LEU:HG	2:F:1555:LEU:HD12	1.98	0.46
1:G:1750:VAL:CG2	1:G:1820:PHE:CZ	2.97	0.46
2:H:2240:ARG:NH2	2:H:2241:ALA:HB2	2.31	0.46
2:J:2804:TYR:O	1:K:3073:SER:HB3	2.16	0.46
2:J:2811:ARG:HD2	1:K:3068:SER:CB	2.36	0.46
1:K:2965:ILE:CG2	1:K:2969:TYR:HA	2.44	0.46
1:A:238:LEU:HD13	2:B:507:ALA:HB1	1.96	0.46
2:B:336:LEU:N	2:B:336:LEU:HD12	2.31	0.46
2:B:520:TYR:HH	1:C:786:GLU:HG2	1.80	0.46
1:E:1288:VAL:HG13	1:E:1289:SER:N	2.30	0.46
1:E:1380:LEU:HD22	1:E:1383:LEU:CG	2.45	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:1454:VAL:HG22	2:F:1455:PHE:N	2.29	0.46
1:G:1860:SER:HB2	1:G:1883:LEU:CD1	2.44	0.46
2:H:2169:ILE:O	2:H:2169:ILE:HG12	2.14	0.46
1:K:2883:TYR:CD1	1:K:2884:ASN:N	2.83	0.46
1:K:2940:LEU:HD22	1:K:2940:LEU:N	2.31	0.46
1:K:2945:ILE:HG22	1:K:2946:THR:N	2.30	0.46
1:A:48:ILE:HD12	1:A:48:ILE:C	2.41	0.46
2:F:1566:GLN:HA	2:F:1566:GLN:NE2	2.29	0.46
1:G:1750:VAL:HG12	1:G:1751:ILE:N	2.29	0.46
1:G:1941:LEU:HA	1:G:1948:LEU:HD22	1.90	0.46
2:H:2105:MET:HE2	2:H:2160:PHE:O	2.14	0.46
2:H:2162:LEU:HD22	2:H:2164:LEU:HD23	1.97	0.46
2:H:2209:LYS:HA	2:H:2212:GLN:HE21	1.80	0.46
2:H:2258:LEU:HD23	2:H:2258:LEU:C	2.41	0.46
1:I:2341:LEU:N	1:I:2341:LEU:CD1	2.79	0.46
1:I:2397:ASP:OD1	1:I:2400:GLU:HG2	2.15	0.46
1:I:2455:THR:HG22	1:I:2456:HIS:N	2.30	0.46
1:I:2512:LEU:HD11	1:I:2520:ILE:CB	2.46	0.46
2:J:2807:LEU:HD22	2:J:2807:LEU:HA	1.67	0.46
1:K:2943:VAL:CG1	1:K:3028:LEU:CD2	2.93	0.46
1:C:609:ILE:CG2	1:C:617:GLN:HB2	2.46	0.46
2:D:848:LEU:HD13	2:D:849:LYS:C	2.41	0.46
2:D:997:ILE:O	2:D:1000:ARG:HG2	2.16	0.46
2:D:1067:LYS:HD3	2:D:1067:LYS:HA	1.77	0.46
1:E:1201:PRO:O	1:E:1202:TRP:HB2	2.14	0.46
1:E:1222:THR:HG21	1:E:1270:LYS:HA	1.98	0.46
1:E:1276:PHE:HE2	1:E:1288:VAL:CG2	2.25	0.46
1:E:1342:VAL:HG23	1:E:1343:GLU:N	2.31	0.46
2:F:1436:ALA:O	2:F:1440:LEU:HG	2.15	0.46
1:G:1954:LEU:HD23	1:G:1954:LEU:HA	1.79	0.46
2:H:2088:ASN:O	2:H:2089:ILE:HD13	2.16	0.46
1:I:2312:TYR:CZ	1:I:2348:PRO:HG2	2.51	0.46
1:K:2913:ILE:HG23	1:K:2913:ILE:O	2.16	0.46
1:A:88:VAL:HG22	1:A:90:ILE:HG23	1.98	0.46
2:B:292:GLY:O	2:B:295:LEU:HG	2.16	0.46
2:B:345:PRO:O	2:B:346:TRP:HB2	2.16	0.46
2:B:450:ILE:O	2:B:450:ILE:HG23	2.15	0.46
1:C:597:ALA:HB1	1:C:627:PHE:HE1	1.75	0.46
1:C:662:THR:O	1:C:742:THR:HG22	2.16	0.46
2:F:1601:LEU:C	2:F:1601:LEU:CD2	2.89	0.46
2:J:2607:PHE:CE1	2:J:2620:LEU:CD1	2.92	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:2859:LYS:HD2	1:K:2859:LYS:O	2.16	0.46
1:K:2892:VAL:CG1	1:K:2962:PHE:CE2	2.99	0.46
1:K:2981:ILE:CD1	1:K:3009:LEU:CD2	2.94	0.46
1:K:3010:THR:HG23	1:K:3011:GLU:N	2.29	0.46
1:A:239:ARG:HB2	2:B:500:ALA:HB1	1.98	0.45
2:B:335:ILE:O	2:B:335:ILE:HG12	2.16	0.45
2:B:523:LEU:HD12	2:B:523:LEU:HA	1.86	0.45
1:C:681:ILE:CG1	1:C:685:TYR:CB	2.94	0.45
2:F:1530:GLU:O	2:F:1534:MET:HG2	2.16	0.45
1:G:1750:VAL:CG2	1:G:1816:LEU:CD1	2.94	0.45
1:G:1964:LEU:HD23	1:G:1964:LEU:O	2.16	0.45
2:H:2035:ILE:CG2	2:H:2064:ILE:CG1	2.94	0.45
2:H:2091:LEU:CD1	2:H:2093:VAL:CG2	2.94	0.45
2:H:2150:ARG:CB	2:H:2167:VAL:CG2	2.94	0.45
1:I:2515:ALA:CB	1:I:2519:LEU:CB	2.93	0.45
1:C:670:VAL:HG13	1:C:673:GLN:H	1.80	0.45
1:C:806:LEU:CA	2:D:1075:ALA:CB	2.75	0.45
2:D:895:PHE:HE1	2:D:922:ILE:HG23	1.82	0.45
2:D:923:ILE:HD13	2:D:923:ILE:O	2.16	0.45
1:E:1203:VAL:HG23	1:E:1204:GLN:N	2.31	0.45
2:H:2045:GLN:O	2:H:2103:PRO:HB2	2.15	0.45
1:K:2859:LYS:HD2	1:K:2859:LYS:C	2.40	0.45
2:B:421:ASN:CG	2:B:424:GLN:HG2	2.40	0.45
1:C:628:LEU:N	1:C:628:LEU:CD1	2.79	0.45
1:E:1179:VAL:HG12	1:E:1207:ILE:HB	1.98	0.45
1:E:1399:ILE:HG22	1:E:1401:TYR:N	2.31	0.45
1:G:1831:VAL:CG1	1:G:1835:ILE:HD12	2.46	0.45
2:H:2040:ILE:CD1	2:H:2060:PHE:CZ	2.99	0.45
1:I:2310:ALA:O	1:I:2341:LEU:HD13	2.17	0.45
1:I:2329:VAL:HG23	1:I:2329:VAL:O	2.16	0.45
2:J:2606:ILE:HG13	2:J:2674:PRO:HG3	1.95	0.45
2:J:2646:ILE:HG21	2:J:2693:VAL:CG2	2.43	0.45
2:J:2785:GLU:O	2:J:2788:ALA:HB3	2.16	0.45
2:J:2811:ARG:CD	1:K:3068:SER:CB	2.93	0.45
1:A:238:LEU:CB	2:B:504:ALA:HA	2.45	0.45
1:C:725:LEU:HD13	1:C:736:LEU:CD2	2.46	0.45
1:C:827:ASN:HD21	2:D:1110:SER:HA	1.80	0.45
2:H:2057:ILE:CG2	2:H:2058:PRO:HD2	2.46	0.45
2:H:2089:ILE:CD1	2:H:2172:LEU:CG	2.92	0.45
2:H:2096:ARG:CZ	2:H:2163:ILE:HD11	2.46	0.45
1:I:2330:GLN:NE2	1:I:2331:ASP:H	2.15	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:2383:VAL:CG2	1:I:2386:GLN:CB	2.92	0.45
2:J:2749:TYR:O	2:J:2753:VAL:HG23	2.16	0.45
2:J:2778:ARG:O	2:J:2782:VAL:HG13	2.16	0.45
1:K:2943:VAL:HG11	1:K:3028:LEU:CD2	2.46	0.45
1:A:231:ALA:CB	1:A:235:LEU:CG	2.93	0.45
1:C:608:VAL:O	1:C:608:VAL:HG13	2.14	0.45
1:C:620:VAL:HG13	1:C:620:VAL:O	2.16	0.45
1:C:664:ARG:O	1:C:665:ILE:HD13	2.17	0.45
2:D:926:ILE:O	2:D:926:ILE:HG22	2.15	0.45
2:D:933:ILE:CD1	2:D:977:PRO:HA	2.46	0.45
2:F:1499:ALA:HB2	2:F:1525:ARG:HD2	1.95	0.45
2:F:1555:LEU:C	2:F:1555:LEU:CD2	2.89	0.45
1:G:1825:GLU:C	1:G:1827:TYR:H	2.24	0.45
1:G:1839:ILE:CG2	1:G:1840:LEU:N	2.80	0.45
2:H:2035:ILE:HD11	2:H:2043:VAL:CG1	2.47	0.45
2:J:2724:LEU:CD2	2:J:2735:LEU:CD1	2.94	0.45
1:K:2892:VAL:HG11	1:K:2962:PHE:CE2	2.52	0.45
1:A:119:LEU:CB	1:A:120:PRO:HD3	2.31	0.45
1:A:160:THR:HG23	1:A:161:PHE:N	2.32	0.45
2:D:893:ILE:HD12	2:D:905:THR:O	2.17	0.45
2:D:1015:ALA:CB	2:D:1020:LEU:CD1	2.90	0.45
1:E:1208:ILE:O	1:E:1208:ILE:HG13	2.16	0.45
1:E:1245:LEU:HB3	1:E:1246:PRO:CD	2.42	0.45
2:F:1534:MET:HE3	2:F:1542:TYR:CE1	2.51	0.45
1:G:1837:THR:O	1:G:1841:LYS:HG3	2.17	0.45
1:G:1843:VAL:HG11	1:G:1863:VAL:CG2	2.44	0.45
2:H:2246:SER:O	2:H:2249:ILE:HG22	2.16	0.45
1:I:2322:ILE:CG2	1:I:2330:GLN:HB2	2.46	0.45
1:A:35:ARG:CD	1:A:51:GLY:HA2	2.47	0.45
2:B:385:ASN:HD22	2:B:385:ASN:H	1.65	0.45
2:B:532:ILE:O	2:B:536:ILE:HG12	2.17	0.45
1:C:609:ILE:HG23	1:C:617:GLN:HB2	1.97	0.45
1:C:661:ILE:HG21	1:C:698:LEU:CD2	2.37	0.45
2:D:971:TYR:CD1	2:D:971:TYR:C	2.94	0.45
1:G:1823:ILE:HD11	1:G:1827:TYR:CD1	2.51	0.45
1:G:1962:TYR:HE1	1:G:1966:ARG:NH1	2.14	0.45
1:G:1980:LEU:HD23	1:G:1980:LEU:C	2.41	0.45
2:H:2129:VAL:CG1	2:H:2148:LEU:HD23	2.43	0.45
2:B:541:ASN:HA	2:J:2827:ILE:CG2	2.47	0.45
2:F:1466:PHE:HE2	2:F:1468:ARG:HD2	1.81	0.45
2:F:1493:ILE:HD13	2:F:1540:LEU:HD11	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:1555:LEU:HD23	2:F:1559:VAL:CG2	2.46	0.45
1:G:1860:SER:CB	1:G:1883:LEU:CD1	2.95	0.45
1:G:1920:LYS:HB2	1:G:1920:LYS:HZ3	1.81	0.45
1:G:1951:LEU:CB	2:H:2216:GLU:HG2	2.45	0.45
2:H:2093:VAL:HG12	2:H:2094:LEU:N	2.31	0.45
2:H:2233:TYR:C	1:I:2502:SER:HB2	2.40	0.45
1:I:2512:LEU:HD21	1:I:2520:ILE:CG1	2.42	0.45
2:J:2827:ILE:O	2:J:2827:ILE:HG12	2.16	0.45
1:K:2904:VAL:O	1:K:2904:VAL:HG23	2.15	0.45
1:K:3026:THR:HG22	1:K:3027:HIS:N	2.32	0.45
1:A:110:ILE:CG1	1:A:114:TYR:CB	2.95	0.45
2:B:293:THR:HA	2:B:296:LYS:HG2	1.99	0.45
2:B:347:PHE:N	2:B:347:PHE:CD1	2.85	0.45
2:B:429:ARG:HG2	2:B:430:ALA:N	2.31	0.45
2:B:512:GLU:OE1	2:B:512:GLU:HA	2.17	0.45
2:B:526:ILE:HD12	2:B:526:ILE:N	2.32	0.45
2:B:532:ILE:CG2	2:B:533:SER:N	2.80	0.45
2:D:947:ILE:CG1	2:D:1030:LEU:CD2	2.94	0.45
2:D:1123:LEU:HD22	2:D:1123:LEU:N	2.32	0.45
2:F:1468:ARG:HD2	2:F:1468:ARG:HA	1.70	0.45
2:F:1641:GLN:HE21	2:F:1642:ALA:HA	1.82	0.45
2:F:1665:LEU:CD2	1:G:1928:GLU:HA	2.44	0.45
1:G:1951:LEU:C	2:H:2216:GLU:HB3	2.42	0.45
2:H:2036:PHE:HE2	2:H:2038:ASN:ND2	2.15	0.45
2:H:2170:THR:HG22	2:H:2171:GLU:N	2.31	0.45
1:I:2391:PHE:C	1:I:2391:PHE:CD1	2.92	0.45
1:I:2522:LEU:CD2	2:J:2791:ALA:N	2.80	0.45
2:J:2588:VAL:HG23	2:J:2589:ALA:N	2.32	0.45
2:J:2798:LEU:C	2:J:2800:LYS:N	2.73	0.45
1:A:100:ALA:CA	1:A:103:LEU:CD2	2.95	0.45
2:B:351:ILE:HG21	2:B:398:LEU:HD21	1.99	0.45
2:D:891:ARG:HD2	2:D:957:ALA:HB1	1.99	0.45
2:D:1036:TYR:O	2:D:1040:VAL:HG23	2.17	0.45
2:D:1094:LEU:HD13	2:D:1097:ILE:CG2	2.47	0.45
1:E:1361:LYS:HG3	1:E:1365:LEU:HD23	1.97	0.45
2:H:2237:ARG:HG3	1:I:2498:ALA:CB	2.47	0.45
1:I:2503:LYS:O	1:I:2507:LEU:HG	2.17	0.45
2:J:2704:PHE:CE2	2:J:2712:GLN:CB	2.96	0.45
2:J:2850:LEU:HG	2:J:2851:ILE:N	2.31	0.45
1:K:2949:ILE:CG1	1:K:2951:PHE:CE2	2.99	0.45
1:K:2954:VAL:HG12	1:K:3019:ILE:CG1	2.47	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:2954:VAL:HG13	1:K:3019:ILE:HG12	1.98	0.45
1:A:73:PRO:CA	1:A:95:LEU:HD23	2.43	0.44
2:B:426:ILE:CG2	2:B:427:THR:N	2.80	0.44
2:D:1114:ILE:CG2	2:D:1115:TYR:N	2.80	0.44
2:F:1417:GLN:NE2	2:F:1419:LEU:HD21	2.32	0.44
2:F:1437:LEU:O	2:F:1441:LEU:HD13	2.17	0.44
2:F:1547:LEU:HB3	2:F:1548:PRO:CD	2.37	0.44
1:G:1750:VAL:CG2	1:G:1816:LEU:CG	2.92	0.44
2:H:2028:VAL:CG2	2:H:2051:GLU:CA	2.94	0.44
2:H:2191:GLU:HG3	2:H:2192:ALA:N	2.31	0.44
1:I:2380:PHE:HZ	1:I:2438:LEU:CD2	2.29	0.44
2:J:2576:GLY:O	2:J:2580:LYS:HG2	2.17	0.44
2:J:2744:SER:HB3	2:J:2745:PHE:H	1.41	0.44
1:K:2982:LEU:HD21	1:K:2986:VAL:HG21	1.99	0.44
1:A:30:VAL:HG13	1:A:30:VAL:O	2.16	0.44
1:A:139:LEU:CG	1:A:173:LEU:HD23	2.47	0.44
1:A:228:LEU:HB3	1:A:236:ILE:HG12	1.98	0.44
2:B:318:GLY:O	2:B:355:ILE:HB	2.17	0.44
2:B:320:ARG:HD3	2:B:386:ALA:HB1	1.98	0.44
2:D:879:VAL:HG23	2:D:880:ARG:N	2.32	0.44
2:D:988:VAL:HG13	2:D:989:ALA:N	2.31	0.44
1:E:1232:ILE:CG1	1:E:1315:LEU:CD1	2.95	0.44
1:E:1261:LEU:C	1:E:1261:LEU:CD1	2.91	0.44
1:E:1296:LEU:CD2	1:E:1307:LEU:HD13	2.42	0.44
1:G:1941:LEU:HD12	1:G:1948:LEU:CG	2.46	0.44
1:G:1979:VAL:HG12	1:G:1981:LEU:HG	1.99	0.44
2:H:2086:MET:O	2:H:2174:PHE:CE2	2.70	0.44
2:H:2202:ALA:O	2:H:2206:GLN:HG3	2.17	0.44
1:K:3102:ILE:CG2	1:K:3103:ALA:N	2.80	0.44
1:A:80:THR:CG2	1:A:127:LEU:HD12	2.41	0.44
1:A:90:ILE:CD1	1:A:90:ILE:N	2.81	0.44
1:A:238:LEU:CB	2:B:503:GLU:O	2.60	0.44
2:B:369:LYS:HD3	2:B:369:LYS:C	2.42	0.44
2:B:428:GLN:HA	2:B:428:GLN:NE2	2.32	0.44
2:B:523:LEU:CD1	2:B:526:ILE:CD1	2.94	0.44
1:E:1220:VAL:HG12	1:E:1232:ILE:O	2.17	0.44
1:E:1260:VAL:CG1	1:E:1261:LEU:N	2.81	0.44
1:E:1350:LYS:O	1:E:1354:ILE:HG13	2.17	0.44
2:F:1499:ALA:CA	2:F:1525:ARG:CG	2.93	0.44
2:F:1538:LEU:CB	2:F:1542:TYR:HB3	2.42	0.44
2:F:1579:ARG:HA	2:F:1582:LEU:CG	2.47	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:1685:ILE:HD13	2:F:1685:ILE:N	2.17	0.44
1:G:1951:LEU:HD23	1:G:1951:LEU:HA	1.61	0.44
2:H:2089:ILE:CD1	2:H:2172:LEU:CB	2.96	0.44
2:H:2129:VAL:CG1	2:H:2133:PHE:HE2	2.31	0.44
2:H:2137:GLN:O	2:H:2141:GLN:HB2	2.17	0.44
1:I:2396:GLU:C	1:I:2398:TYR:H	2.26	0.44
1:I:2406:ILE:HD12	1:I:2406:ILE:H	1.82	0.44
1:K:2892:VAL:CB	1:K:2922:PHE:CZ	3.00	0.44
1:K:2958:LEU:HD13	1:K:2961:ILE:HD13	1.97	0.44
1:A:155:THR:HG23	1:A:156:GLU:N	2.31	0.44
1:A:161:PHE:HB3	1:A:163:LEU:HD23	1.99	0.44
2:D:975:VAL:HG12	2:D:979:ILE:HD13	1.99	0.44
2:D:1125:LEU:HD23	2:D:1126:GLN:C	2.42	0.44
2:F:1663:ILE:CG2	2:F:1664:LYS:N	2.80	0.44
2:F:1669:ARG:HD2	1:G:1926:SER:HB2	1.99	0.44
2:H:2093:VAL:HG22	2:H:2167:VAL:HG12	1.99	0.44
2:H:2236:LEU:C	1:I:2501:ASP:HB3	2.42	0.44
1:I:2292:SER:HA	1:I:2295:LYS:HG2	1.98	0.44
1:I:2349:ILE:HD13	1:I:2391:PHE:CE2	2.53	0.44
1:I:2514:THR:CG2	1:I:2515:ALA:N	2.80	0.44
2:J:2657:MET:O	2:J:2745:PHE:CE1	2.71	0.44
2:J:2734:ILE:O	2:J:2734:ILE:HG23	2.18	0.44
2:J:2792:LYS:HG3	2:J:2793:MET:N	2.33	0.44
1:A:98:PRO:HG3	1:A:114:TYR:CE2	2.53	0.44
2:B:335:ILE:HD13	2:B:335:ILE:N	2.17	0.44
2:B:370:ASP:O	2:B:371:LEU:HB2	2.18	0.44
2:B:483:GLN:HA	2:B:486:VAL:HG12	1.99	0.44
1:C:629:ILE:HB	1:C:633:GLN:HE22	1.80	0.44
2:D:951:VAL:O	2:D:951:VAL:HG23	2.17	0.44
1:E:1277:ASP:O	1:E:1281:LEU:HG	2.18	0.44
1:E:1380:LEU:CB	2:F:1645:GLU:O	2.63	0.44
2:F:1464:ILE:CG2	2:F:1493:ILE:HB	2.47	0.44
2:F:1652:LEU:HD21	2:F:1666:ARG:NE	2.31	0.44
2:H:2162:LEU:CD2	2:H:2164:LEU:HD23	2.48	0.44
1:I:2339:HIS:CD2	1:I:2340:PHE:N	2.86	0.44
1:I:2404:PRO:HA	1:I:2407:THR:HG22	2.00	0.44
1:I:2474:GLN:O	1:I:2478:GLU:HG2	2.17	0.44
1:I:2534:GLN:HG3	1:I:2535:LEU:N	2.32	0.44
1:K:2891:ALA:HB3	1:K:2905:VAL:HG22	1.93	0.44
1:K:3071:GLY:HA2	1:K:3074:LYS:CE	2.46	0.44
2:B:331:GLN:C	2:B:333:ASP:N	2.74	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:813:GLU:CG	1:C:814:ALA:N	2.81	0.44
2:D:893:ILE:CG2	2:D:922:ILE:CD1	2.96	0.44
1:E:1284:GLN:CD	1:E:1287:LEU:HD23	2.43	0.44
2:F:1573:GLN:NE2	2:F:1573:GLN:HA	2.33	0.44
2:F:1603:PHE:O	2:F:1607:TYR:HD1	2.00	0.44
2:H:2066:TYR:CZ	2:H:2102:LEU:HB3	2.52	0.44
2:H:2139:ILE:CG2	2:H:2140:THR:N	2.81	0.44
2:H:2179:THR:CG2	2:H:2180:ALA:N	2.81	0.44
2:H:2249:ILE:CG2	2:H:2250:ALA:N	2.81	0.44
1:I:2359:ASN:HD21	1:I:2377:ARG:HD3	1.83	0.44
1:I:2434:VAL:HG13	1:I:2435:SER:N	2.32	0.44
1:K:2920:ILE:CD1	1:K:2962:PHE:HZ	2.31	0.44
1:K:2957:GLN:HE21	1:K:2957:GLN:HB2	1.58	0.44
2:D:950:ARG:CD	2:D:952:LEU:HD21	2.47	0.44
2:D:964:TYR:OH	2:D:969:LEU:HD11	2.17	0.44
1:E:1268:ILE:CD1	1:E:1296:LEU:HB2	2.47	0.44
2:F:1616:VAL:CG1	2:F:1617:ALA:N	2.81	0.44
2:F:1662:TYR:CZ	1:G:1928:GLU:HB2	2.52	0.44
1:G:1731:VAL:HG23	1:G:1732:ALA:N	2.32	0.44
2:H:2119:PRO:HA	2:H:2122:VAL:HG12	2.00	0.44
2:H:2237:ARG:CG	1:I:2498:ALA:HB1	2.48	0.44
1:I:2293:ILE:CG2	1:I:2294:GLY:N	2.81	0.44
1:I:2407:THR:CG2	1:I:2408:THR:N	2.81	0.44
1:I:2411:LEU:O	1:I:2414:VAL:HG12	2.18	0.44
2:J:2733:LEU:HD13	2:J:2734:ILE:C	2.42	0.44
2:B:434:LEU:HD12	2:B:437:ARG:HD3	1.99	0.44
2:B:523:LEU:HA	2:B:526:ILE:HD13	1.99	0.44
1:C:709:GLU:HG3	1:C:713:GLN:HB2	2.00	0.44
2:D:960:LEU:HB3	2:D:961:PRO:CD	2.43	0.44
2:D:1117:THR:CG2	2:D:1118:ALA:N	2.80	0.44
2:F:1474:GLN:O	2:F:1474:GLN:HG2	2.18	0.44
2:F:1627:LEU:C	2:F:1627:LEU:CD2	2.91	0.44
2:F:1665:LEU:HG	2:F:1666:ARG:H	1.77	0.44
1:G:1718:VAL:CG1	1:G:1719:PHE:N	2.80	0.44
2:H:2151:ARG:O	2:H:2155:GLU:HG3	2.17	0.44
2:H:2195:ALA:CA	2:H:2198:LEU:CD2	2.91	0.44
2:H:2236:LEU:HD12	2:H:2236:LEU:HA	1.84	0.44
1:I:2321:VAL:HG12	1:I:2349:ILE:HG12	1.97	0.44
2:J:2816:ILE:CG2	2:J:2817:SER:N	2.80	0.44
1:K:3125:LEU:HD12	1:K:3125:LEU:N	2.32	0.44
1:A:218:SER:CB	1:K:3090:LEU:HD12	2.48	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:409:VAL:CG1	2:B:410:ASN:N	2.80	0.44
2:D:963:MET:SD	2:D:967:LEU:CB	3.05	0.44
2:D:984:LEU:CD2	2:D:1007:ILE:CD1	2.93	0.44
1:E:1315:LEU:C	1:E:1316:THR:HG23	2.42	0.44
2:F:1508:THR:HG22	2:F:1509:GLY:H	1.81	0.44
2:F:1658:LYS:HD3	2:F:1662:TYR:CZ	2.53	0.44
1:G:1836:THR:CG2	1:G:1837:THR:N	2.81	0.44
1:A:5:VAL:CG2	1:A:6:PHE:N	2.81	0.43
1:C:795:ILE:HG13	1:C:799:LEU:HD21	2.00	0.43
2:D:915:ILE:O	2:D:919:GLN:HG3	2.17	0.43
2:D:1036:TYR:C	2:D:1036:TYR:CD1	2.94	0.43
1:E:1296:LEU:HG	1:E:1307:LEU:CD1	2.47	0.43
1:E:1361:LYS:HG3	1:E:1365:LEU:CD2	2.48	0.43
2:F:1478:LEU:HD23	2:F:1483:HIS:CG	2.53	0.43
2:F:1658:LYS:HB3	2:F:1662:TYR:CD1	2.53	0.43
1:G:1944:ALA:HB3	1:G:1948:LEU:CB	2.48	0.43
2:H:2045:GLN:CA	2:H:2103:PRO:HB2	2.48	0.43
2:H:2075:ILE:HD11	2:H:2123:ASN:HD22	1.83	0.43
2:H:2233:TYR:CZ	1:I:2499:GLU:HG3	2.53	0.43
1:I:2349:ILE:HD11	1:I:2351:PHE:HZ	1.81	0.43
1:I:2439:THR:CG2	1:I:2440:GLU:N	2.81	0.43
1:I:2519:LEU:CA	2:J:2788:ALA:CB	2.78	0.43
1:K:2939:ASP:C	1:K:2940:LEU:HD22	2.43	0.43
1:K:3113:THR:CG2	1:K:3114:TYR:H	2.28	0.43
1:A:92:LEU:HD21	1:A:168:VAL:HG21	2.01	0.43
1:A:155:THR:CG2	1:A:156:GLU:N	2.80	0.43
2:B:341:HIS:CB	2:B:343:ARG:HH12	2.31	0.43
2:B:465:TYR:CD2	2:B:465:TYR:C	2.96	0.43
2:B:543:ILE:CD1	2:H:2256:ILE:CG2	2.94	0.43
1:C:795:ILE:CG2	1:C:796:ALA:N	2.81	0.43
2:D:1005:LEU:O	2:D:1008:ARG:HB3	2.18	0.43
2:D:1125:LEU:HD23	2:D:1126:GLN:O	2.18	0.43
1:E:1185:ARG:NE	1:E:1185:ARG:HA	2.33	0.43
2:F:1477:ILE:CD1	2:F:1532:PRO:HG3	2.46	0.43
2:F:1499:ALA:HA	2:F:1525:ARG:HG3	2.00	0.43
2:F:1665:LEU:HD13	1:G:1930:ASP:H	1.75	0.43
2:F:1706:ASP:HB3	2:F:1708:LEU:CD2	2.48	0.43
1:G:1886:LEU:C	1:G:1887:THR:HG23	2.43	0.43
2:H:2079:THR:CG2	2:H:2080:GLY:N	2.81	0.43
2:H:2113:TYR:OH	2:H:2162:LEU:HB2	2.19	0.43
2:H:2129:VAL:HG12	2:H:2133:PHE:CE2	2.52	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:2588:VAL:O	2:J:2592:VAL:HG23	2.18	0.43
2:J:2673:LEU:CB	2:J:2674:PRO:HD3	2.47	0.43
2:J:2709:LEU:HD11	2:J:2743:LEU:HD23	1.99	0.43
2:J:2807:LEU:HB2	1:K:3076:ALA:CB	2.46	0.43
1:K:2947:LEU:CG	1:K:2982:LEU:HD12	2.48	0.43
1:K:2982:LEU:CD2	1:K:2982:LEU:C	2.91	0.43
1:K:3015:THR:HG1	1:K:3016:PHE:HD1	1.62	0.43
1:A:126:ILE:HD11	1:A:157:ARG:HE	1.81	0.43
1:C:661:ILE:HG23	1:C:661:ILE:O	2.17	0.43
2:D:930:PRO:HG3	2:D:952:LEU:CD1	2.48	0.43
2:D:1084:ALA:C	2:D:1086:SER:N	2.76	0.43
2:D:1105:LYS:HB2	2:D:1105:LYS:HE3	1.75	0.43
1:E:1187:VAL:O	1:E:1187:VAL:HG23	2.16	0.43
1:E:1222:THR:CG2	1:E:1223:GLY:N	2.81	0.43
1:E:1384:GLU:CB	2:F:1645:GLU:CD	2.87	0.43
1:E:1393:LEU:HD23	1:E:1393:LEU:C	2.43	0.43
2:F:1442:GLY:O	2:F:1446:VAL:HG23	2.18	0.43
1:I:2302:VAL:CG2	1:I:2303:ALA:N	2.81	0.43
1:I:2397:ASP:CG	1:I:2400:GLU:CG	2.91	0.43
2:J:2690:PRO:CA	2:J:2693:VAL:HG12	2.48	0.43
1:K:3059:GLU:O	1:K:3062:LYS:HG3	2.19	0.43
1:A:151:SER:HB3	1:A:168:VAL:HG12	2.01	0.43
2:B:432:VAL:CG1	2:B:433:SER:N	2.82	0.43
1:C:590:ALA:O	1:C:594:VAL:HG23	2.18	0.43
1:C:744:LEU:C	1:C:745:THR:HG23	2.43	0.43
1:C:751:THR:CG2	1:C:752:GLU:N	2.80	0.43
2:D:906:ILE:HD11	2:D:958:GLN:CA	2.48	0.43
1:E:1237:LEU:CD2	1:E:1237:LEU:C	2.91	0.43
2:F:1538:LEU:CG	2:F:1542:TYR:CB	2.96	0.43
2:H:2233:TYR:CA	1:I:2502:SER:CB	2.78	0.43
2:H:2236:LEU:HB2	1:I:2502:SER:HA	2.01	0.43
2:J:2645:LYS:H	2:J:2645:LYS:CD	2.24	0.43
2:J:2653:LYS:HD2	2:J:2653:LYS:C	2.44	0.43
2:J:2696:VAL:O	2:J:2700:VAL:HG23	2.18	0.43
1:K:2894:PHE:CE1	1:K:2918:LYS:HB3	2.53	0.43
1:K:3091:ILE:CG2	1:K:3092:GLU:N	2.82	0.43
1:A:78:VAL:CG1	1:A:90:ILE:CD1	2.94	0.43
2:B:486:VAL:CG1	2:B:487:GLU:N	2.82	0.43
2:D:883:VAL:HG22	2:D:884:PHE:N	2.33	0.43
2:D:914:ARG:HD2	2:D:914:ARG:C	2.44	0.43
1:E:1380:LEU:HA	1:E:1383:LEU:HD13	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:1465:PHE:HE2	2:F:1478:LEU:HD21	1.75	0.43
2:F:1528:ALA:CA	2:F:1531:LEU:CD2	2.95	0.43
1:G:1837:THR:CG2	1:G:1838:GLU:N	2.82	0.43
1:G:1890:LYS:HD2	1:G:1891:GLU:HG3	1.99	0.43
2:H:2219:ALA:HA	1:I:2491:LYS:HD3	1.99	0.43
1:I:2464:THR:CG2	1:I:2465:GLU:N	2.82	0.43
1:I:2486:LYS:O	1:I:2489:GLN:HG2	2.19	0.43
1:I:2542:THR:HG22	1:I:2543:TYR:O	2.19	0.43
2:J:2665:LEU:HD23	2:J:2737:ASP:HB2	2.00	0.43
2:J:2828:TYR:CD2	2:J:2830:THR:CG2	2.97	0.43
2:J:2843:PHE:CD1	2:J:2843:PHE:C	2.96	0.43
1:K:2945:ILE:HD13	1:K:3028:LEU:HD23	1.99	0.43
1:K:2965:ILE:HG21	1:K:2969:TYR:CA	2.46	0.43
1:K:2970:ASP:C	1:K:2974:LEU:HD23	2.43	0.43
1:A:119:LEU:HB3	1:A:120:PRO:CD	2.38	0.43
1:A:160:THR:CG2	1:A:161:PHE:N	2.81	0.43
2:B:293:THR:O	2:B:296:LYS:HG2	2.19	0.43
1:C:606:ARG:CG	1:C:640:CYS:SG	3.06	0.43
2:D:983:VAL:CG2	2:D:984:LEU:N	2.82	0.43
2:D:1087:LYS:O	2:D:1088:ASN:O	2.37	0.43
1:E:1177:ARG:CG	1:E:1211:CYS:SG	3.06	0.43
1:E:1321:PHE:CD1	1:E:1322:THR:N	2.87	0.43
1:E:1337:ARG:NH1	1:E:1337:ARG:HB2	2.34	0.43
1:E:1370:LEU:CD2	1:E:1370:LEU:C	2.92	0.43
1:E:1414:GLN:HG3	1:E:1414:GLN:OXT	2.17	0.43
2:F:1546:VAL:CG1	2:F:1547:LEU:N	2.82	0.43
2:F:1589:PHE:O	2:F:1590:SER:HB2	2.19	0.43
2:H:2086:MET:HB2	2:H:2174:PHE:CZ	2.50	0.43
2:H:2121:ILE:CG2	2:H:2156:ARG:HD2	2.37	0.43
1:I:2349:ILE:CD1	1:I:2351:PHE:CE1	3.02	0.43
1:I:2447:LEU:HD22	1:I:2447:LEU:O	2.17	0.43
2:J:2709:LEU:HD21	2:J:2743:LEU:HD23	2.01	0.43
2:J:2793:MET:HE2	1:K:3062:LYS:HB2	2.00	0.43
1:K:3000:LEU:HD12	1:K:3000:LEU:H	1.83	0.43
1:A:78:VAL:HG13	1:A:78:VAL:O	2.17	0.43
1:C:716:LEU:C	1:C:716:LEU:CD2	2.91	0.43
1:C:745:THR:HG21	1:C:750:PHE:CE1	2.53	0.43
1:C:807:ILE:CG2	1:C:808:GLU:N	2.82	0.43
1:C:809:LEU:HB2	2:D:1074:GLU:O	2.17	0.43
2:D:1032:PHE:HD1	2:D:1032:PHE:HA	1.56	0.43
1:E:1222:THR:HG23	1:E:1270:LYS:HG3	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:1586:ALA:HB1	2:F:1591:LEU:CG	2.47	0.43
2:F:1677:THR:CG2	2:F:1678:ILE:N	2.82	0.43
2:F:1678:ILE:CG2	2:F:1679:ALA:N	2.82	0.43
1:G:1721:SER:HA	1:G:1724:LYS:HZ2	1.83	0.43
1:G:1770:LEU:N	1:G:1770:LEU:CD2	2.82	0.43
1:G:1886:LEU:H	1:G:1886:LEU:CD2	2.14	0.43
2:H:2035:ILE:CG2	2:H:2064:ILE:CD1	2.92	0.43
2:J:2598:THR:HG22	2:J:2599:VAL:N	2.33	0.43
1:K:3043:VAL:CG2	1:K:3044:ALA:N	2.82	0.43
2:B:404:VAL:CG1	2:B:405:LEU:N	2.82	0.43
2:B:441:THR:CA	2:B:451:LEU:HD21	2.48	0.43
1:C:711:ILE:CG2	1:C:712:THR:N	2.80	0.43
2:D:1117:THR:CG2	2:D:1118:ALA:H	2.31	0.43
1:E:1266:THR:CG2	1:E:1267:GLU:N	2.82	0.43
1:E:1321:PHE:CD1	1:E:1321:PHE:C	2.96	0.43
2:F:1469:ILE:CG2	2:F:1470:GLY:N	2.82	0.43
2:F:1472:VAL:O	2:F:1472:VAL:HG23	2.19	0.43
2:F:1543:GLU:CG	2:F:1544:GLU:N	2.81	0.43
2:H:2145:VAL:HG23	2:H:2146:SER:N	2.32	0.43
1:I:2391:PHE:C	1:I:2391:PHE:HD1	2.26	0.43
2:J:2637:TYR:OH	2:J:2677:TYR:HB2	2.19	0.43
2:J:2790:ALA:HA	2:J:2793:MET:HE2	2.01	0.43
2:J:2827:ILE:N	2:J:2827:ILE:CD1	2.82	0.43
1:K:2982:LEU:O	1:K:2985:VAL:HG22	2.18	0.43
1:K:3086:ALA:CB	1:K:3090:LEU:CG	2.97	0.43
1:A:41:ARG:HH11	1:A:41:ARG:HD3	1.67	0.43
2:D:964:TYR:CE1	2:D:969:LEU:CG	2.96	0.43
2:D:1032:PHE:HB3	2:D:1035:GLU:OE1	2.18	0.43
1:E:1231:ASN:HD22	1:E:1231:ASN:HA	1.55	0.43
1:E:1232:ILE:CG1	1:E:1315:LEU:HD12	2.46	0.43
1:E:1297:THR:CG2	1:E:1298:GLU:N	2.81	0.43
1:E:1393:LEU:C	1:E:1393:LEU:CD2	2.92	0.43
2:F:1459:GLY:HA2	2:F:1480:GLU:OE1	2.18	0.43
2:H:2111:LEU:HD23	2:H:2111:LEU:N	2.11	0.43
1:I:2519:LEU:CD1	1:I:2519:LEU:C	2.91	0.43
2:J:2643:PRO:HG3	2:J:2665:LEU:HD12	1.98	0.43
1:K:2905:VAL:O	1:K:2905:VAL:HG23	2.19	0.43
1:K:3020:LEU:HD11	1:K:3022:ASP:O	2.19	0.43
1:K:3060:GLN:HE21	1:K:3060:GLN:HB3	1.47	0.43
1:A:50:VAL:HG21	1:A:55:HIS:NE2	2.34	0.43
1:A:161:PHE:CB	1:A:163:LEU:HD23	2.49	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:185:ALA:O	1:A:188:VAL:HG12	2.19	0.43
2:B:395:ARG:NH2	2:B:396:LEU:HD21	2.33	0.43
2:B:405:LEU:C	2:B:405:LEU:CD2	2.91	0.43
1:C:670:VAL:HG12	1:C:673:GLN:CB	2.41	0.43
1:C:778:LYS:C	1:C:778:LYS:CD	2.92	0.43
1:C:830:TYR:C	1:C:830:TYR:HD1	2.27	0.43
2:D:897:ARG:HD2	2:D:897:ARG:O	2.19	0.43
2:D:951:VAL:HB	2:D:1022:LEU:HD11	2.01	0.43
1:E:1160:VAL:CG1	1:E:1161:ALA:N	2.81	0.43
1:E:1177:ARG:CZ	1:E:1193:GLY:CA	2.96	0.43
2:F:1566:GLN:HG3	2:F:1570:GLN:HB2	2.00	0.43
2:F:1615:GLN:HG3	2:F:1619:GLN:HE21	1.84	0.43
2:F:1658:LYS:HB2	2:F:1662:TYR:CE1	2.54	0.43
2:H:2075:ILE:CD1	2:H:2122:VAL:HG11	2.45	0.43
2:H:2223:LEU:CD2	2:H:2237:ARG:CZ	2.96	0.43
2:H:2258:LEU:C	2:H:2258:LEU:CD2	2.92	0.43
1:I:2512:LEU:HA	1:I:2519:LEU:HD12	2.01	0.43
1:A:161:PHE:HB3	1:A:163:LEU:CD2	2.49	0.42
2:B:414:LYS:O	2:B:414:LYS:HD3	2.19	0.42
2:B:474:VAL:CG1	2:B:475:ALA:N	2.81	0.42
1:C:677:ILE:HD12	1:C:677:ILE:C	2.44	0.42
1:C:813:GLU:HB3	2:D:1074:GLU:CB	2.48	0.42
2:D:884:PHE:HD2	2:D:921:PRO:HG3	1.83	0.42
2:D:893:ILE:CG2	2:D:922:ILE:HD11	2.44	0.42
2:F:1685:ILE:CG1	1:G:1970:ILE:HG13	2.49	0.42
1:G:1721:SER:O	1:G:1724:LYS:HD2	2.19	0.42
1:G:1821:THR:CG2	1:G:1822:SER:N	2.81	0.42
1:G:1941:LEU:CG	1:G:1949:ILE:HB	2.49	0.42
2:H:2036:PHE:CZ	2:H:2044:GLN:NE2	2.86	0.42
1:I:2447:LEU:HD13	1:I:2447:LEU:H	1.84	0.42
2:J:2611:ILE:CG2	2:J:2612:GLY:N	2.82	0.42
2:J:2667:ARG:CG	2:J:2734:ILE:CG2	2.94	0.42
2:J:2668:PRO:CB	2:J:2676:MET:HE1	2.40	0.42
2:J:2692:ILE:O	2:J:2696:VAL:HG23	2.18	0.42
2:J:2701:VAL:HG23	2:J:2702:ALA:N	2.34	0.42
1:K:2888:GLY:O	1:K:2924:CYS:HB3	2.19	0.42
1:K:2978:THR:CG2	1:K:2979:THR:N	2.82	0.42
2:B:293:THR:CG2	2:B:294:ALA:N	2.82	0.42
2:B:332:GLN:HE21	2:B:332:GLN:HB2	1.71	0.42
2:B:459:LEU:HD23	2:B:459:LEU:N	2.19	0.42
2:B:499:GLN:O	2:B:503:GLU:HG2	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:628:LEU:HD23	1:C:635:PRO:CD	2.49	0.42
1:C:660:ASN:ND2	1:C:743:HIS:HE1	2.17	0.42
2:D:875:VAL:CG1	2:D:876:ALA:N	2.82	0.42
1:G:1759:GLN:HG2	1:G:1761:ILE:H	1.84	0.42
1:G:1855:GLN:NE2	1:G:1858:LEU:HG	2.34	0.42
2:H:2172:LEU:N	2:H:2172:LEU:CD1	2.81	0.42
1:I:2524:LYS:HG3	1:I:2525:LEU:N	2.33	0.42
1:I:2542:THR:CG2	1:I:2543:TYR:N	2.79	0.42
2:J:2608:PHE:CD1	2:J:2608:PHE:C	2.97	0.42
1:K:3055:VAL:CG2	1:K:3056:GLU:N	2.82	0.42
1:A:78:VAL:HG22	1:A:80:THR:HG23	1.99	0.42
1:A:124:THR:CG2	1:A:125:GLU:N	2.82	0.42
1:C:725:LEU:HD22	1:C:736:LEU:HD22	1.97	0.42
2:D:1125:LEU:C	2:D:1125:LEU:CD2	2.92	0.42
1:E:1221:ILE:N	1:E:1221:ILE:CD1	2.82	0.42
1:E:1245:LEU:CB	1:E:1246:PRO:HD3	2.38	0.42
2:F:1435:THR:CG2	2:F:1436:ALA:N	2.82	0.42
2:F:1582:LEU:CD1	2:F:1596:VAL:HG21	2.49	0.42
2:H:2010:LEU:C	2:H:2010:LEU:CD2	2.92	0.42
2:H:2033:ARG:CG	2:H:2068:ILE:CG1	2.96	0.42
2:H:2066:TYR:CE1	2:H:2102:LEU:HB3	2.53	0.42
2:H:2096:ARG:CZ	2:H:2163:ILE:CD1	2.97	0.42
2:H:2130:VAL:HG13	2:H:2131:ALA:N	2.35	0.42
1:I:2374:ILE:HG22	1:I:2375:THR:N	2.33	0.42
1:I:2378:ILE:C	1:I:2379:LEU:HD22	2.45	0.42
2:J:2577:THR:CG2	2:J:2578:ALA:N	2.83	0.42
2:J:2616:GLN:O	2:J:2674:PRO:HG2	2.19	0.42
2:B:332:GLN:CA	2:B:390:PRO:HB2	2.49	0.42
2:B:412:VAL:CG1	2:B:413:LEU:N	2.83	0.42
2:B:543:ILE:HD13	2:H:2256:ILE:CG2	2.46	0.42
1:C:597:ALA:O	1:C:628:LEU:HD13	2.19	0.42
1:C:663:LEU:HD11	1:C:698:LEU:HD22	2.01	0.42
1:C:799:LEU:HD23	1:C:806:LEU:CD2	2.47	0.42
2:D:1011:LEU:HD23	2:D:1025:VAL:HG11	2.01	0.42
1:E:1296:LEU:CD2	1:E:1307:LEU:CD1	2.97	0.42
2:F:1523:LEU:HD23	2:F:1595:ASP:HB3	2.02	0.42
1:G:1722:ILE:O	1:G:1725:PHE:CD1	2.72	0.42
1:G:1805:LEU:HD11	1:G:1881:VAL:HG13	2.00	0.42
1:G:1855:GLN:HE21	1:G:1858:LEU:HG	1.85	0.42
1:G:1886:LEU:C	1:G:1887:THR:CG2	2.93	0.42
1:G:1980:LEU:C	1:G:1980:LEU:CD2	2.92	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:2122:VAL:CG1	2:H:2123:ASN:N	2.83	0.42
2:H:2229:LYS:O	2:H:2233:TYR:CG	2.73	0.42
2:H:2272:PHE:CD1	2:H:2273:THR:N	2.81	0.42
1:I:2289:VAL:CG1	1:I:2290:PHE:N	2.82	0.42
1:I:2306:VAL:CG1	1:I:2307:VAL:N	2.83	0.42
1:I:2322:ILE:HD11	1:I:2346:GLN:CD	2.45	0.42
1:I:2517:ASP:HA	1:I:2520:ILE:CD1	2.49	0.42
2:J:2770:VAL:CG2	2:J:2771:GLU:N	2.83	0.42
2:J:2798:LEU:HD11	2:J:2805:ILE:HG13	1.99	0.42
1:K:2861:PHE:O	1:K:2864:ILE:HG22	2.19	0.42
1:K:2893:ILE:CG2	1:K:2917:GLN:CD	2.92	0.42
1:K:3086:ALA:CB	1:K:3090:LEU:CD2	2.92	0.42
1:A:78:VAL:HG11	1:A:127:LEU:HG	2.02	0.42
2:B:370:ASP:CG	2:B:372:GLN:HG2	2.44	0.42
2:B:469:VAL:CG1	2:B:470:GLU:N	2.83	0.42
1:C:649:VAL:CG1	1:C:661:ILE:CG2	2.97	0.42
2:D:947:ILE:O	2:D:947:ILE:HG23	2.18	0.42
1:E:1151:ILE:CG2	1:E:1152:GLY:N	2.81	0.42
1:E:1260:VAL:HG13	1:E:1261:LEU:N	2.33	0.42
2:F:1458:GLU:CG	2:F:1459:GLY:N	2.83	0.42
2:H:2162:LEU:C	2:H:2162:LEU:CD2	2.93	0.42
1:I:2295:LYS:HA	1:I:2298:LEU:HD13	2.01	0.42
1:I:2378:ILE:CG2	1:I:2449:LEU:CD1	2.94	0.42
2:J:2765:ARG:O	2:J:2769:LEU:HG	2.19	0.42
2:J:2782:VAL:CG2	2:J:2783:GLN:N	2.83	0.42
1:A:186:LYS:HE3	1:A:186:LYS:CA	2.48	0.42
2:B:350:PRO:C	2:B:351:ILE:HD12	2.44	0.42
2:B:545:LEU:HD13	2:B:546:THR:N	2.33	0.42
2:D:964:TYR:CZ	2:D:969:LEU:HG	2.53	0.42
2:D:1092:ILE:C	2:D:1092:ILE:CD1	2.93	0.42
2:D:1094:LEU:HD22	2:D:1094:LEU:N	2.33	0.42
2:F:1461:HIS:HB3	2:F:1494:ILE:HD11	2.01	0.42
1:G:1920:LYS:HG3	1:G:1921:LYS:N	2.34	0.42
1:G:1944:ALA:CB	1:G:1948:LEU:CD2	2.94	0.42
2:H:1990:LEU:C	2:H:1990:LEU:CD2	2.93	0.42
2:H:2242:ALA:CA	2:H:2245:ILE:HG12	2.49	0.42
1:I:2292:SER:O	1:I:2295:LYS:HG2	2.19	0.42
1:I:2484:VAL:CG2	1:I:2485:GLU:N	2.82	0.42
1:I:2522:LEU:CD2	2:J:2787:GLU:O	2.67	0.42
2:J:2657:MET:O	2:J:2745:PHE:CZ	2.73	0.42
2:J:2805:ILE:HG23	2:J:2808:ARG:NH1	2.27	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:2926:SER:HA	1:K:2951:PHE:O	2.19	0.42
1:K:3010:THR:CG2	1:K:3011:GLU:N	2.82	0.42
2:B:351:ILE:N	2:B:351:ILE:CD1	2.82	0.42
2:B:372:GLN:CD	2:B:422:ALA:CB	2.93	0.42
2:B:514:LEU:C	2:B:516:LYS:N	2.75	0.42
1:C:689:VAL:HG22	1:C:693:ILE:HD12	2.02	0.42
1:C:725:LEU:HD23	1:C:725:LEU:C	2.43	0.42
2:F:1523:LEU:HB2	2:F:1594:ASP:HB2	2.02	0.42
2:F:1696:LEU:N	2:F:1696:LEU:CD1	2.83	0.42
1:G:1751:ILE:CG2	1:G:1775:GLN:CD	2.93	0.42
1:G:1752:PHE:CD2	1:G:1778:ILE:HD11	2.54	0.42
1:G:1832:LEU:HD21	1:G:1876:LEU:CD2	2.49	0.42
2:H:2026:PHE:HB2	2:H:2056:ARG:CD	2.49	0.42
2:H:2229:LYS:HB2	2:H:2233:TYR:CD2	2.53	0.42
2:H:2256:ILE:O	2:H:2256:ILE:HG13	2.18	0.42
2:H:2259:THR:HG22	2:H:2260:ALA:N	2.34	0.42
1:I:2419:ASP:HB3	1:I:2422:GLU:HG2	2.01	0.42
2:J:2716:VAL:CG1	2:J:2717:SER:N	2.83	0.42
1:K:2933:VAL:HB	1:K:2982:LEU:HD13	2.01	0.42
1:K:3093:LEU:CD2	1:K:3093:LEU:O	2.67	0.42
1:A:200:VAL:CG2	1:A:201:GLU:N	2.82	0.42
1:A:228:LEU:HD23	1:A:236:ILE:CG1	2.50	0.42
1:A:231:ALA:CB	1:A:235:LEU:HG	2.50	0.42
1:A:238:LEU:CD2	1:A:241:LEU:HD23	2.49	0.42
2:B:360:ARG:CD	2:B:361:LYS:N	2.82	0.42
1:C:585:LEU:C	1:C:585:LEU:CD2	2.92	0.42
1:C:809:LEU:HB3	2:D:1074:GLU:O	2.20	0.42
2:D:996:LEU:HD23	2:D:996:LEU:HA	1.86	0.42
2:D:1094:LEU:HD23	1:E:1363:ALA:HB1	2.02	0.42
1:E:1370:LEU:HD11	1:E:1378:ILE:HD13	1.99	0.42
2:F:1497:ILE:CG2	2:F:1498:ARG:N	2.83	0.42
1:G:1751:ILE:HG23	1:G:1775:GLN:CD	2.45	0.42
1:G:1815:GLN:HE22	1:G:1818:ARG:NH1	2.18	0.42
1:G:1818:ARG:CA	1:G:1821:THR:HG22	2.50	0.42
2:H:2077:SER:HB3	2:H:2126:LEU:HD23	2.01	0.42
2:H:2175:SER:OG	2:H:2176:ARG:HD2	2.19	0.42
1:I:2322:ILE:CG2	1:I:2330:GLN:HB3	2.50	0.42
1:I:2359:ASN:ND2	1:I:2377:ARG:HD3	2.33	0.42
2:J:2637:TYR:OH	2:J:2677:TYR:HD2	2.02	0.42
2:J:2662:LEU:HD11	2:J:2740:ILE:HG22	2.01	0.42
1:A:99:VAL:HG23	1:A:162:GLY:O	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:139:LEU:HD21	1:A:173:LEU:HD23	1.96	0.42
2:B:340:LEU:C	2:B:340:LEU:CD1	2.92	0.42
2:D:967:LEU:HD11	2:D:974:ARG:HB2	2.01	0.42
2:D:987:VAL:CG2	2:D:988:VAL:N	2.82	0.42
1:E:1222:THR:HG22	1:E:1223:GLY:H	1.84	0.42
2:F:1450:VAL:CG1	2:F:1451:ARG:N	2.82	0.42
2:F:1662:TYR:HA	1:G:1931:SER:HB2	1.91	0.42
2:F:1684:ARG:HH22	1:G:1968:ARG:HD3	1.85	0.42
1:G:1853:ILE:O	1:G:1856:ARG:HG3	2.20	0.42
1:I:2398:TYR:OH	1:I:2447:LEU:HB3	2.19	0.42
2:J:2646:ILE:HD13	2:J:2647:SER:C	2.45	0.42
1:K:3050:ARG:O	1:K:3054:VAL:HG13	2.20	0.42
1:K:3086:ALA:HB3	1:K:3090:LEU:CG	2.50	0.42
1:A:122:ILE:CG1	1:A:123:THR:N	2.82	0.42
1:A:173:LEU:C	1:A:174:THR:HG23	2.44	0.42
2:B:393:TYR:HD1	2:B:398:LEU:HD23	1.85	0.42
2:B:413:LEU:CD1	2:B:417:VAL:HG11	2.50	0.42
1:C:649:VAL:O	1:C:649:VAL:HG13	2.19	0.42
1:C:694:THR:CG2	1:C:695:THR:N	2.81	0.42
2:D:869:LEU:C	2:D:869:LEU:CD2	2.93	0.42
2:D:1094:LEU:CD2	2:D:1094:LEU:N	2.83	0.42
1:E:1381:ARG:HA	2:F:1645:GLU:CG	2.32	0.42
2:F:1599:THR:HG22	2:F:1600:GLU:H	1.83	0.42
2:F:1658:LYS:O	2:F:1659:ASN:O	2.37	0.42
1:G:1715:ALA:O	1:G:1718:VAL:HG12	2.20	0.42
1:G:1831:VAL:HG21	1:G:1874:PHE:CZ	2.53	0.42
1:I:2403:LEU:C	1:I:2403:LEU:CD2	2.92	0.42
1:I:2552:LEU:C	1:I:2552:LEU:CD1	2.93	0.42
2:J:2680:LEU:CD2	2:J:2684:TYR:CD1	3.03	0.42
2:J:2693:VAL:CG1	2:J:2694:ASN:N	2.82	0.42
2:J:2777:GLN:O	2:J:2781:ILE:HG13	2.20	0.42
2:J:2808:ARG:HG2	1:K:3069:ALA:O	2.19	0.42
2:J:2811:ARG:HD3	1:K:3072:ASP:OD2	2.20	0.42
2:J:2816:ILE:O	2:J:2820:ILE:HG22	2.20	0.42
1:K:2913:ILE:CG2	1:K:2916:VAL:HB	2.50	0.42
1:K:3121:VAL:CG1	1:K:3122:LEU:N	2.82	0.42
1:C:662:THR:HG22	1:C:743:HIS:CD2	2.55	0.41
1:C:806:LEU:C	1:C:806:LEU:CD2	2.90	0.41
2:F:1462:ARG:CD	2:F:1528:ALA:HB1	2.49	0.41
2:F:1558:VAL:CG2	2:F:1559:VAL:N	2.82	0.41
2:F:1658:LYS:CB	2:F:1662:TYR:CD1	3.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1812:VAL:CG1	1:G:1815:GLN:CG	2.95	0.41
1:I:2406:ILE:HA	1:I:2409:GLU:HG2	2.02	0.41
2:J:2593:ARG:C	2:J:2593:ARG:CD	2.93	0.41
1:K:2952:ARG:HB2	1:K:2952:ARG:HH11	1.85	0.41
1:A:91:THR:HG23	1:A:91:THR:O	2.20	0.41
1:A:183:VAL:CG1	1:A:184:GLU:N	2.82	0.41
1:A:188:VAL:CG1	1:A:189:ALA:N	2.82	0.41
2:D:950:ARG:HD3	2:D:952:LEU:CD2	2.50	0.41
2:F:1478:LEU:HD23	2:F:1483:HIS:CD2	2.55	0.41
2:F:1486:ILE:HA	2:F:1487:PRO:HD3	1.67	0.41
2:F:1508:THR:CG2	2:F:1509:GLY:N	2.81	0.41
1:G:1726:GLY:O	1:G:1729:LEU:HB3	2.21	0.41
1:G:1843:VAL:CG1	1:G:1844:VAL:N	2.82	0.41
1:G:1859:VAL:CG1	1:G:1860:SER:N	2.82	0.41
1:G:1860:SER:CA	1:G:1883:LEU:HD11	2.43	0.41
2:H:2187:VAL:CG2	2:H:2188:ALA:N	2.83	0.41
2:H:2240:ARG:HB2	1:I:2501:ASP:CB	2.50	0.41
1:I:2383:VAL:CG1	1:I:2448:ILE:HG12	2.49	0.41
1:K:2931:VAL:HG21	1:K:2978:THR:HG21	2.00	0.41
1:K:2974:LEU:HD21	1:K:3018:LEU:CD2	2.50	0.41
1:K:3038:VAL:CG2	1:K:3039:GLU:N	2.83	0.41
1:A:99:VAL:HG22	1:A:164:ILE:HD11	2.02	0.41
1:A:175:PHE:O	1:A:179:PHE:HB2	2.19	0.41
1:A:245:GLU:O	1:A:249:TYR:CD2	2.74	0.41
2:B:393:TYR:CD1	2:B:398:LEU:HD23	2.56	0.41
2:B:509:MET:HB3	1:C:782:ILE:HD11	2.02	0.41
1:C:661:ILE:HD11	1:C:741:LEU:HB3	2.02	0.41
1:C:662:THR:HG21	1:C:743:HIS:CD2	2.55	0.41
1:C:677:ILE:HD12	1:C:678:PHE:CA	2.51	0.41
1:C:720:GLN:HA	1:C:723:ASP:OD1	2.20	0.41
1:C:759:VAL:CG1	1:C:760:ALA:N	2.82	0.41
1:C:799:LEU:CD2	1:C:806:LEU:CD2	2.98	0.41
1:C:806:LEU:CD1	2:D:1072:GLU:CB	2.95	0.41
2:D:864:THR:CG2	2:D:865:ALA:N	2.82	0.41
2:D:907:LEU:HD12	2:D:908:ALA:O	2.20	0.41
2:D:1102:ASN:O	2:D:1105:LYS:HG2	2.20	0.41
1:E:1370:LEU:CD1	1:E:1378:ILE:CD1	2.93	0.41
2:F:1444:GLY:O	2:F:1448:TYR:CD2	2.73	0.41
1:G:1737:ASN:HD22	1:G:1737:ASN:HA	1.62	0.41
2:H:2162:LEU:HD23	2:H:2163:ILE:O	2.19	0.41
2:H:2229:LYS:O	2:H:2233:TYR:CD1	2.73	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:2551:LEU:C	1:I:2551:LEU:CD1	2.94	0.41
1:K:2893:ILE:HG21	1:K:2917:GLN:CD	2.46	0.41
1:K:2948:ARG:HD3	1:K:2950:LEU:CD2	2.50	0.41
1:K:2985:VAL:CG2	1:K:2986:VAL:N	2.81	0.41
1:K:3025:LEU:C	1:K:3025:LEU:CD1	2.92	0.41
1:A:61:VAL:CG2	1:A:62:GLN:N	2.83	0.41
1:A:127:LEU:C	1:A:127:LEU:CD1	2.92	0.41
1:A:127:LEU:HD13	1:A:131:VAL:CG2	2.51	0.41
1:A:146:VAL:CG1	1:A:147:SER:N	2.84	0.41
2:B:550:LEU:HD23	2:B:550:LEU:C	2.45	0.41
1:C:725:LEU:CD2	1:C:725:LEU:C	2.94	0.41
1:C:745:THR:CB	1:C:746:PHE:HA	2.50	0.41
2:F:1665:LEU:CD1	1:G:1931:SER:N	2.82	0.41
1:G:1803:ILE:O	1:G:1803:ILE:HG23	2.20	0.41
1:G:1807:ILE:HG12	1:G:1878:LEU:HD11	2.01	0.41
1:G:1925:ILE:O	1:G:1928:GLU:HG2	2.20	0.41
2:H:2040:ILE:CG1	2:H:2060:PHE:CZ	2.97	0.41
1:I:2319:ARG:HD2	1:I:2384:ALA:HB1	2.02	0.41
1:I:2323:PHE:HB3	1:I:2347:LYS:HG2	2.02	0.41
1:I:2373:ASN:HD22	1:I:2374:ILE:N	2.19	0.41
1:I:2380:PHE:HD1	1:I:2449:LEU:HA	1.84	0.41
1:I:2402:VAL:CG2	1:I:2403:LEU:N	2.83	0.41
2:J:2808:ARG:HG2	1:K:3069:ALA:CA	2.50	0.41
1:K:3029:THR:HG22	1:K:3030:PHE:CA	2.50	0.41
1:A:57:LEU:CD1	1:A:64:PRO:HD3	2.50	0.41
2:B:355:ILE:O	2:B:355:ILE:HG22	2.20	0.41
1:C:689:VAL:CG1	1:C:690:LEU:N	2.82	0.41
1:C:806:LEU:O	2:D:1075:ALA:HB2	2.20	0.41
1:C:814:ALA:O	1:C:818:ILE:HD12	2.20	0.41
2:D:1094:LEU:HB2	1:E:1359:ASP:O	2.19	0.41
2:F:1426:LEU:HG	2:F:1427:PRO:O	2.20	0.41
2:F:1534:MET:HE3	2:F:1542:TYR:CZ	2.55	0.41
1:G:1778:ILE:N	1:G:1778:ILE:CD1	2.84	0.41
1:G:1883:LEU:H	1:G:1883:LEU:CD1	2.33	0.41
2:H:2229:LYS:HD3	2:H:2229:LYS:HA	1.61	0.41
1:I:2341:LEU:CD2	1:I:2348:PRO:CG	2.98	0.41
1:I:2358:ARG:HA	1:I:2358:ARG:NE	2.30	0.41
1:I:2440:GLU:HG3	1:I:2441:ARG:N	2.34	0.41
2:B:449:LEU:C	2:B:449:LEU:CD1	2.93	0.41
2:B:522:LYS:NZ	2:B:522:LYS:HB2	2.36	0.41
1:C:663:LEU:HD11	1:C:698:LEU:HB2	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:802:ALA:CB	1:C:806:LEU:HB3	2.51	0.41
2:D:1094:LEU:HB3	1:E:1359:ASP:O	2.21	0.41
1:E:1389:ILE:HD13	1:E:1392:GLN:NE2	2.35	0.41
2:F:1538:LEU:CD1	2:F:1538:LEU:C	2.94	0.41
2:F:1550:ILE:O	2:F:1554:VAL:HG23	2.20	0.41
2:F:1582:LEU:HD12	2:F:1583:THR:CA	2.51	0.41
1:G:1727:LEU:C	1:G:1727:LEU:CD1	2.93	0.41
1:G:1791:VAL:CG1	1:G:1793:THR:HG23	2.41	0.41
2:H:2037:PHE:CD2	2:H:2043:VAL:HG22	2.44	0.41
2:H:2111:LEU:C	2:H:2113:TYR:H	2.29	0.41
2:H:2195:ALA:C	2:H:2198:LEU:HD23	2.45	0.41
1:I:2359:ASN:CG	1:I:2377:ARG:HD2	2.45	0.41
1:I:2445:PHE:HB2	1:I:2447:LEU:HD12	2.02	0.41
1:I:2457:LEU:C	1:I:2458:THR:CG2	2.93	0.41
1:I:2512:LEU:CD1	1:I:2519:LEU:HD12	2.11	0.41
1:I:2544:LEU:N	1:I:2545:PRO:HD3	2.33	0.41
2:J:2682:LEU:C	2:J:2684:TYR:H	2.28	0.41
1:K:2961:ILE:CG1	1:K:2962:PHE:N	2.80	0.41
1:A:224:ILE:CG2	1:A:228:LEU:HD13	2.51	0.41
2:B:506:ALA:CB	1:C:778:LYS:HG2	2.50	0.41
1:C:621:VAL:O	1:C:621:VAL:HG13	2.21	0.41
2:D:963:MET:HE3	2:D:971:TYR:CE1	2.56	0.41
2:D:1007:ILE:CG2	2:D:1008:ARG:N	2.83	0.41
2:D:1091:TYR:O	1:E:1360:SER:CB	2.69	0.41
1:E:1224:SER:OG	1:E:1281:LEU:HD11	2.20	0.41
2:F:1579:ARG:HA	2:F:1582:LEU:HG	2.02	0.41
2:F:1579:ARG:CA	2:F:1582:LEU:HG	2.51	0.41
1:G:1912:VAL:CG1	1:G:1913:VAL:N	2.84	0.41
1:G:1932:LYS:HD2	1:G:1936:LEU:CG	2.51	0.41
2:J:2646:ILE:CG2	2:J:2693:VAL:HG21	2.46	0.41
2:J:2711:THR:CG2	2:J:2712:GLN:N	2.84	0.41
1:K:3009:LEU:C	1:K:3009:LEU:CD1	2.94	0.41
1:K:3020:LEU:CD2	1:K:3023:VAL:CG2	2.93	0.41
1:K:3086:ALA:HB1	1:K:3090:LEU:CD1	2.42	0.41
1:A:102:GLN:NE2	1:A:162:GLY:HA3	2.36	0.41
1:A:220:ALA:HB2	2:B:493:GLN:HG2	2.03	0.41
1:C:597:ALA:CB	1:C:627:PHE:CE1	2.96	0.41
2:D:923:ILE:C	2:D:923:ILE:CD1	2.92	0.41
2:D:1095:ARG:HG3	1:E:1356:ALA:HB2	1.98	0.41
1:E:1177:ARG:HH21	1:E:1194:GLU:H	1.68	0.41
1:E:1380:LEU:HD13	2:F:1645:GLU:HB3	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:1555:LEU:HD23	2:F:1559:VAL:HG21	2.03	0.41
1:G:1844:VAL:CG1	1:G:1845:ALA:N	2.83	0.41
2:H:2094:LEU:N	2:H:2094:LEU:CD2	2.83	0.41
2:H:2233:TYR:O	1:I:2502:SER:CB	2.68	0.41
1:I:2314:VAL:CG1	1:I:2336:GLU:CA	2.95	0.41
1:I:2319:ARG:CD	1:I:2384:ALA:HB1	2.50	0.41
1:I:2402:VAL:HG11	1:I:2445:PHE:CD1	2.56	0.41
1:I:2472:VAL:CG2	1:I:2473:ALA:N	2.82	0.41
1:I:2522:LEU:HB3	2:J:2788:ALA:N	2.34	0.41
2:J:2606:ILE:CD1	2:J:2607:PHE:N	2.81	0.41
2:J:2610:ARG:CD	2:J:2631:PHE:HA	2.45	0.41
2:J:2708:GLN:CD	2:J:2712:GLN:HG3	2.45	0.41
2:J:2804:TYR:O	1:K:3073:SER:CB	2.69	0.41
1:K:2965:ILE:HB	1:K:2969:TYR:HB3	2.02	0.41
1:K:2981:ILE:CD1	1:K:3009:LEU:HB2	2.51	0.41
1:A:199:VAL:CA	1:A:202:LYS:HG2	2.51	0.41
1:A:231:ALA:CB	1:A:235:LEU:CD1	2.90	0.41
2:B:428:GLN:CA	2:B:428:GLN:HE21	2.34	0.41
2:B:513:ALA:C	2:B:515:SER:N	2.79	0.41
2:B:523:LEU:CD1	2:B:526:ILE:HG12	2.51	0.41
2:B:550:LEU:C	2:B:550:LEU:CD2	2.94	0.41
1:C:661:ILE:CD1	1:C:741:LEU:HD22	2.46	0.41
1:C:663:LEU:CD1	1:C:698:LEU:HD22	2.50	0.41
1:C:682:GLY:O	1:C:685:TYR:HD2	2.04	0.41
1:C:729:ALA:CB	1:C:736:LEU:CD1	2.99	0.41
2:D:897:ARG:HB3	2:D:918:PHE:CE2	2.56	0.41
2:D:967:LEU:C	2:D:967:LEU:CD1	2.93	0.41
2:D:980:VAL:O	2:D:983:VAL:HG22	2.20	0.41
2:D:1094:LEU:HD12	2:D:1097:ILE:CG2	2.46	0.41
1:E:1209:PHE:HE1	1:E:1254:GLU:HG2	1.86	0.41
2:F:1574:VAL:O	2:F:1578:ILE:HG23	2.21	0.41
2:F:1706:ASP:HB3	2:F:1708:LEU:HD21	2.03	0.41
1:G:1750:VAL:CG1	1:G:1751:ILE:N	2.83	0.41
1:G:1951:LEU:HB3	2:H:2216:GLU:HG3	1.97	0.41
2:H:2015:GLY:O	2:H:2019:TYR:CD2	2.74	0.41
2:H:2068:ILE:O	2:H:2096:ARG:HB2	2.21	0.41
2:H:2089:ILE:CD1	2:H:2172:LEU:HG	2.29	0.41
2:H:2091:LEU:CD1	2:H:2091:LEU:C	2.94	0.41
2:H:2194:ARG:O	2:H:2198:LEU:HD23	2.21	0.41
2:H:2253:GLN:HE21	2:H:2253:GLN:HB3	1.55	0.41
1:I:2307:VAL:CG1	1:I:2308:ASN:N	2.83	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:2312:TYR:OH	1:I:2348:PRO:HD2	2.21	0.41
1:I:2322:ILE:HG23	1:I:2330:GLN:CB	2.50	0.41
1:I:2432:ARG:O	1:I:2435:SER:HB3	2.21	0.41
1:I:2438:LEU:C	1:I:2438:LEU:CD2	2.94	0.41
1:I:2461:LYS:HA	1:I:2461:LYS:CE	2.48	0.41
1:I:2512:LEU:HD11	1:I:2520:ILE:CG1	2.50	0.41
1:I:2522:LEU:HG	2:J:2787:GLU:C	2.46	0.41
1:I:2523:ARG:HB2	2:J:2784:ALA:CB	2.47	0.41
2:J:2615:GLN:C	2:J:2617:ASP:N	2.77	0.41
2:J:2646:ILE:C	2:J:2646:ILE:CD1	2.94	0.41
1:K:2924:CYS:O	1:K:2952:ARG:CG	2.68	0.41
1:K:2965:ILE:HB	1:K:2969:TYR:HB2	2.03	0.41
1:K:2985:VAL:CA	1:K:2988:ARG:HD3	2.40	0.41
1:K:3020:LEU:CD1	1:K:3023:VAL:CG2	2.94	0.41
1:K:3113:THR:CG2	1:K:3114:TYR:N	2.79	0.41
1:K:3127:GLN:O	1:K:3127:GLN:HG2	2.21	0.41
1:A:60:TRP:CD1	1:A:61:VAL:N	2.89	0.41
1:A:175:PHE:CD1	1:A:175:PHE:N	2.85	0.41
1:A:239:ARG:CB	2:B:500:ALA:HB1	2.50	0.41
2:B:545:LEU:HG	2:F:1687:LEU:CD1	2.51	0.41
1:C:582:LYS:CG	1:C:583:PHE:N	2.83	0.41
1:C:593:VAL:CG1	1:C:594:VAL:N	2.83	0.41
1:C:778:LYS:HD2	1:C:778:LYS:O	2.20	0.41
1:C:810:ARG:HB2	2:D:1071:ALA:CB	2.50	0.41
2:D:880:ARG:O	2:D:883:VAL:HG12	2.20	0.41
2:D:1089:PRO:O	2:D:1093:LYS:HG3	2.21	0.41
2:F:1556:LYS:HD2	2:F:1556:LYS:C	2.45	0.41
2:F:1637:GLN:HE21	2:F:1637:GLN:HB3	1.60	0.41
2:H:2025:VAL:HG22	2:H:2026:PHE:N	2.36	0.41
1:I:2326:PHE:CD1	1:I:2327:ARG:N	2.89	0.41
1:I:2378:ILE:HD12	1:I:2452:VAL:HG23	1.95	0.41
1:I:2379:LEU:N	1:I:2379:LEU:CD2	2.82	0.41
1:I:2457:LEU:O	1:I:2458:THR:CG2	2.69	0.41
1:I:2542:THR:HG22	1:I:2543:TYR:H	1.85	0.41
1:K:2920:ILE:CG1	1:K:2962:PHE:CZ	3.03	0.41
1:K:3054:VAL:CG2	1:K:3055:VAL:N	2.83	0.41
1:A:56:PHE:N	1:A:56:PHE:CD1	2.90	0.40
2:B:380:VAL:CG2	2:B:405:LEU:HD11	2.51	0.40
1:C:611:ASP:CB	1:C:614:ARG:HB2	2.44	0.40
1:C:670:VAL:CG1	1:C:673:GLN:CB	2.99	0.40
1:C:719:ARG:HH11	1:C:719:ARG:HD2	1.78	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:949:LEU:HD22	2:D:980:VAL:HG13	2.03	0.40
1:E:1151:ILE:HG23	1:E:1152:GLY:N	2.36	0.40
1:E:1380:LEU:CG	2:F:1645:GLU:O	2.70	0.40
1:E:1398:ASN:CG	2:F:1682:GLN:HG2	2.46	0.40
1:G:1810:ARG:HE	1:G:1810:ARG:HB3	1.48	0.40
2:J:2616:GLN:CA	2:J:2674:PRO:CB	2.97	0.40
2:J:2741:THR:CG2	2:J:2742:GLU:N	2.82	0.40
2:J:2844:THR:O	2:J:2845:ARG:HB3	2.21	0.40
1:A:110:ILE:CG1	1:A:111:GLY:N	2.83	0.40
2:B:299:LEU:C	2:B:299:LEU:CD1	2.92	0.40
1:C:693:ILE:HG22	1:C:697:ILE:HD12	2.02	0.40
1:C:841:LEU:N	1:C:841:LEU:CD1	2.84	0.40
2:D:947:ILE:HG13	2:D:1030:LEU:HD23	2.03	0.40
2:D:971:TYR:C	2:D:971:TYR:HD1	2.29	0.40
1:E:1380:LEU:CD2	1:E:1383:LEU:HB2	2.51	0.40
2:F:1550:ILE:CG1	2:F:1551:VAL:N	2.81	0.40
1:G:1855:GLN:NE2	1:G:1855:GLN:HA	2.35	0.40
1:G:1967:SER:O	1:G:1968:ARG:HG3	2.21	0.40
1:I:2289:VAL:HG13	1:I:2290:PHE:CD1	2.55	0.40
1:I:2512:LEU:CD1	1:I:2523:ARG:CD	2.99	0.40
2:J:2718:LEU:HD23	2:J:2718:LEU:HA	1.90	0.40
2:J:2774:LYS:CD	2:J:2778:ARG:CD	2.94	0.40
1:K:2920:ILE:HG12	1:K:2962:PHE:CE1	2.55	0.40
1:K:3115:LEU:HD23	1:K:3115:LEU:HA	1.94	0.40
1:A:50:VAL:O	1:A:50:VAL:HG13	2.22	0.40
1:A:144:GLU:CG	1:A:145:LEU:N	2.83	0.40
1:A:252:SER:OG	2:B:536:ILE:HD13	2.22	0.40
2:B:332:GLN:CA	2:B:390:PRO:CB	2.97	0.40
2:D:1004:SER:HA	2:D:1027:ILE:CD1	2.51	0.40
2:D:1013:GLU:O	2:D:1016:LYS:CD	2.70	0.40
2:D:1040:VAL:O	2:D:1044:GLN:HG3	2.20	0.40
2:D:1092:ILE:CG2	2:D:1093:LYS:N	2.84	0.40
1:E:1317:PHE:HB3	1:E:1320:GLU:CG	2.52	0.40
2:F:1516:VAL:O	2:F:1516:VAL:HG23	2.21	0.40
1:G:1722:ILE:CA	1:G:1725:PHE:CE1	2.90	0.40
2:H:2237:ARG:HH11	2:H:2237:ARG:HD3	1.75	0.40
1:I:2411:LEU:C	1:I:2411:LEU:CD2	2.94	0.40
2:J:2724:LEU:HD23	2:J:2735:LEU:CD1	2.50	0.40
2:J:2821:ALA:CB	1:K:3105:GLN:CG	2.92	0.40
1:K:3029:THR:HG23	1:K:3034:PHE:HB2	2.02	0.40
1:K:3086:ALA:CB	1:K:3090:LEU:CD1	2.95	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:392:MET:HE1	2:B:400:TYR:CG	2.56	0.40
2:B:543:ILE:HG23	2:H:2256:ILE:HA	2.03	0.40
1:C:783:ILE:N	1:C:783:ILE:HD12	2.36	0.40
2:D:1084:ALA:C	2:D:1086:SER:H	2.29	0.40
1:E:1165:VAL:CG2	1:E:1166:ASN:N	2.83	0.40
1:E:1192:VAL:HG12	1:E:1193:GLY:O	2.20	0.40
1:E:1209:PHE:CZ	1:E:1254:GLU:HB3	2.56	0.40
1:E:1234:LEU:HD23	1:E:1265:THR:CG2	2.51	0.40
1:E:1234:LEU:HD23	1:E:1265:THR:HG23	2.03	0.40
1:E:1370:LEU:HG	1:E:1378:ILE:HB	2.01	0.40
1:E:1380:LEU:O	2:F:1645:GLU:CB	2.70	0.40
1:G:1948:LEU:CA	2:H:2217:ALA:CB	2.80	0.40
2:H:2176:ARG:HH11	2:H:2177:GLU:HG2	1.87	0.40
2:H:2223:LEU:CD1	1:I:2495:ILE:HG23	2.51	0.40
1:I:2442:ALA:HA	1:I:2447:LEU:HD11	2.04	0.40
1:K:2997:GLN:OE1	1:K:3000:LEU:HD13	2.20	0.40
1:K:3018:LEU:HD12	1:K:3018:LEU:N	2.36	0.40
1:A:69:CYS:SG	1:A:97:ARG:CD	3.09	0.40
1:A:223:LEU:CD2	2:B:497:ILE:HD13	2.52	0.40
2:B:308:VAL:CG1	2:B:309:ARG:N	2.84	0.40
2:B:336:LEU:CD2	2:B:341:HIS:ND1	2.84	0.40
1:C:638:PHE:HZ	1:C:683:GLU:HA	1.86	0.40
1:E:1292:VAL:CG1	1:E:1293:SER:N	2.84	0.40
2:F:1571:ARG:HA	2:F:1574:VAL:HG12	2.04	0.40
2:F:1665:LEU:CD1	2:F:1665:LEU:C	2.85	0.40
1:G:1903:GLN:O	1:G:1907:GLU:HG3	2.22	0.40
1:K:2864:ILE:CG2	1:K:2865:GLY:N	2.83	0.40

There are no symmetry-related clashes.

5.3 Torsion angles

5.3.1 Protein backbone

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	270/272 (99%)	260 (96%)	8 (3%)	2 (1%)	18	56
1	C	270/272 (99%)	261 (97%)	8 (3%)	1 (0%)	30	67
1	E	270/272 (99%)	263 (97%)	6 (2%)	1 (0%)	30	67
1	G	270/272 (99%)	263 (97%)	6 (2%)	1 (0%)	30	67
1	I	270/272 (99%)	259 (96%)	8 (3%)	3 (1%)	11	46
1	K	270/272 (99%)	263 (97%)	6 (2%)	1 (0%)	30	67
2	B	297/299 (99%)	280 (94%)	14 (5%)	3 (1%)	12	49
2	D	297/299 (99%)	279 (94%)	12 (4%)	6 (2%)	6	31
2	F	297/299 (99%)	284 (96%)	11 (4%)	2 (1%)	18	56
2	H	297/299 (99%)	276 (93%)	15 (5%)	6 (2%)	6	31
2	J	297/299 (99%)	279 (94%)	17 (6%)	1 (0%)	36	72
All	All	3105/3127 (99%)	2967 (96%)	111 (4%)	27 (1%)	16	51

All (27) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
2	F	1600	GLU
2	F	1659	ASN
2	H	2171	GLU
2	H	2175	SER
2	H	2261	ASP
1	I	2459	PHE
2	B	286	ALA
1	C	743	HIS
2	D	1031	SER
2	D	1032	PHE
2	H	2173	SER
2	H	2272	PHE
2	B	458	GLU
2	D	1029	GLU
2	D	1088	ASN
1	E	1401	TYR
2	H	2271	SER
2	J	2742	GLU
1	K	3027	HIS
2	D	917	TRP
1	G	1822	SER
1	I	2456	HIS
1	I	2548	GLN

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Mol	Chain	Res	Type
1	A	60	TRP
1	A	172	HIS
2	D	1121	LEU
2	B	462	SER

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	224/224 (100%)	204 (91%)	20 (9%)	9	28
1	C	224/224 (100%)	209 (93%)	15 (7%)	15	36
1	E	224/224 (100%)	204 (91%)	20 (9%)	9	28
1	G	224/224 (100%)	199 (89%)	25 (11%)	6	19
1	I	224/224 (100%)	211 (94%)	13 (6%)	18	40
1	K	224/224 (100%)	210 (94%)	14 (6%)	16	37
2	B	248/248 (100%)	227 (92%)	21 (8%)	10	29
2	D	248/248 (100%)	218 (88%)	30 (12%)	5	17
2	F	248/248 (100%)	225 (91%)	23 (9%)	8	26
2	H	248/248 (100%)	229 (92%)	19 (8%)	12	32
2	J	248/248 (100%)	226 (91%)	22 (9%)	9	28
All	All	2584/2584 (100%)	2362 (91%)	222 (9%)	12	29

All (222) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	4	LYS
1	A	11	LYS
1	A	28	TYR
1	A	43	ARG
1	A	63	LYS
1	A	74	ARG
1	A	90	ILE

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Mol	Chain	Res	Type
1	A	97	ARG
1	A	106	ILE
1	A	110	ILE
1	A	116	GLU
1	A	138	GLU
1	A	148	ARG
1	A	177	LYS
1	A	186	LYS
1	A	219	LYS
1	A	235	LEU
1	A	238	LEU
1	A	240	LYS
1	A	250	GLN
2	B	326	ARG
2	B	332	GLN
2	B	335	ILE
2	B	341	HIS
2	B	351	ILE
2	B	360	ARG
2	B	376	ILE
2	B	385	ASN
2	B	388	GLU
2	B	410	ASN
2	B	414	LYS
2	B	429	ARG
2	B	440	LEU
2	B	451	LEU
2	B	459	LEU
2	B	488	LYS
2	B	514	LEU
2	B	522	LYS
2	B	532	ILE
2	B	534	LYS
2	B	544	TYR
1	C	598	LEU
1	C	614	ARG
1	C	627	PHE
1	C	628	LEU
1	C	633	GLN
1	C	670	VAL
1	C	681	ILE
1	C	720	GLN

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Mol	Chain	Res	Type
1	C	735	ILE
1	C	773	LYS
1	C	789	SER
1	C	809	LEU
1	C	821	GLN
1	C	830	TYR
1	C	831	LEU
2	D	846	GLN
2	D	849	LYS
2	D	880	ARG
2	D	897	ARG
2	D	912	HIS
2	D	915	ILE
2	D	919	GLN
2	D	923	ILE
2	D	924	TYR
2	D	952	LEU
2	D	954	ARG
2	D	963	MET
2	D	969	LEU
2	D	971	TYR
2	D	972	GLU
2	D	985	LYS
2	D	992	ASN
2	D	1016	LYS
2	D	1020	LEU
2	D	1035	GLU
2	D	1062	GLN
2	D	1063	GLU
2	D	1064	GLN
2	D	1070	GLN
2	D	1079	LYS
2	D	1085	LEU
2	D	1087	LYS
2	D	1092	ILE
2	D	1095	ARG
2	D	1142	LYS
1	E	1146	LYS
1	E	1177	ARG
1	E	1184	PHE
1	E	1185	ARG
1	E	1190	ILE

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Mol	Chain	Res	Type
1	E	1199	LEU
1	E	1204	GLN
1	E	1217	ASN
1	E	1221	ILE
1	E	1237	LEU
1	E	1241	VAL
1	E	1248	ILE
1	E	1256	TYR
1	E	1291	GLN
1	E	1332	GLN
1	E	1336	GLU
1	E	1340	PHE
1	E	1348	GLN
1	E	1370	LEU
1	E	1380	LEU
2	F	1455	PHE
2	F	1468	ARG
2	F	1473	GLN
2	F	1485	ARG
2	F	1486	ILE
2	F	1489	PHE
2	F	1490	GLN
2	F	1491	TYR
2	F	1497	ILE
2	F	1523	LEU
2	F	1530	GLU
2	F	1538	LEU
2	F	1540	LEU
2	F	1566	GLN
2	F	1589	PHE
2	F	1614	LYS
2	F	1626	PHE
2	F	1641	GLN
2	F	1645	GLU
2	F	1665	LEU
2	F	1676	LYS
2	F	1685	ILE
2	F	1712	LYS
1	G	1714	MET
1	G	1724	LYS
1	G	1725	PHE
1	G	1735	VAL

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Mol	Chain	Res	Type
1	G	1737	ASN
1	G	1742	ASN
1	G	1756	ARG
1	G	1770	LEU
1	G	1775	GLN
1	G	1776	LYS
1	G	1780	PHE
1	G	1810	ARG
1	G	1829	GLU
1	G	1839	ILE
1	G	1886	LEU
1	G	1890	LYS
1	G	1899	LYS
1	G	1903	GLN
1	G	1917	GLU
1	G	1920	LYS
1	G	1932	LYS
1	G	1951	LEU
1	G	1960	ILE
1	G	1964	LEU
1	G	1972	TYR
2	H	1991	LYS
2	H	2009	LYS
2	H	2035	ILE
2	H	2039	ARG
2	H	2056	ARG
2	H	2064	ILE
2	H	2074	LYS
2	H	2091	LEU
2	H	2094	LEU
2	H	2105	MET
2	H	2111	LEU
2	H	2158	LYS
2	H	2169	ILE
2	H	2172	LEU
2	H	2176	ARG
2	H	2209	LYS
2	H	2216	GLU
2	H	2237	ARG
2	H	2249	ILE
1	I	2288	LYS
1	I	2293	ILE

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Mol	Chain	Res	Type
1	I	2330	GLN
1	I	2341	LEU
1	I	2358	ARG
1	I	2373	ASN
1	I	2447	LEU
1	I	2461	LYS
1	I	2486	LYS
1	I	2488	GLU
1	I	2491	LYS
1	I	2524	LYS
1	I	2544	LEU
2	J	2593	ARG
2	J	2604	ARG
2	J	2606	ILE
2	J	2616	GLN
2	J	2619	ILE
2	J	2624	LEU
2	J	2630	TRP
2	J	2644	ARG
2	J	2645	LYS
2	J	2646	ILE
2	J	2665	LEU
2	J	2679	ARG
2	J	2687	ARG
2	J	2749	TYR
2	J	2761	GLN
2	J	2764	GLN
2	J	2771	GLU
2	J	2774	LYS
2	J	2800	LYS
2	J	2806	LYS
2	J	2807	LEU
2	J	2827	ILE
1	K	2856	MET
1	K	2896	ARG
1	K	2972	ARG
1	K	2988	ARG
1	K	3028	LEU
1	K	3032	LYS
1	K	3042	GLN
1	K	3057	LYS
1	K	3061	GLN

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Mol	Chain	Res	Type
1	K	3093	LEU
1	K	3095	LYS
1	K	3104	TYR
1	K	3114	TYR
1	K	3119	GLN

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (106) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	29	ASN
1	A	46	GLN
1	A	142	GLN
1	A	187	GLN
1	A	206	GLN
1	A	264	GLN
2	B	325	ASN
2	B	331	GLN
2	B	332	GLN
2	B	385	ASN
2	B	387	GLN
2	B	410	ASN
2	B	428	GLN
2	B	491	GLN
2	B	493	GLN
2	B	517	ASN
2	B	530	GLN
2	B	540	GLN
2	B	541	ASN
1	C	633	GLN
1	C	657	GLN
1	C	658	ASN
1	C	660	ASN
1	C	720	GLN
1	C	761	GLN
1	C	797	ASN
1	C	821	GLN
1	C	827	ASN
1	C	835	GLN
1	C	843	GLN
2	D	890	HIS
2	D	912	HIS
2	D	1002	GLN

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Mol	Chain	Res	Type
2	D	1044	GLN
2	D	1047	GLN
2	D	1051	GLN
2	D	1062	GLN
2	D	1064	GLN
2	D	1070	GLN
2	D	1124	ASN
1	E	1171	ASN
1	E	1176	HIS
1	E	1231	ASN
1	E	1291	GLN
1	E	1332	GLN
1	E	1348	GLN
1	E	1398	ASN
2	F	1417	GLN
2	F	1483	HIS
2	F	1490	GLN
2	F	1566	GLN
2	F	1573	GLN
2	F	1615	GLN
2	F	1619	GLN
2	F	1622	GLN
2	F	1635	GLN
2	F	1637	GLN
2	F	1641	GLN
1	G	1737	ASN
1	G	1742	ASN
1	G	1759	GLN
1	G	1815	GLN
1	G	1855	GLN
1	G	1862	GLN
1	G	1903	GLN
1	G	1904	GLN
1	G	1919	GLN
1	G	1939	ASN
1	G	1969	ASN
2	H	2032	HIS
2	H	2044	GLN
2	H	2085	GLN
2	H	2098	ASN
2	H	2107	GLN
2	H	2141	GLN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
2	H	2186	GLN
2	H	2206	GLN
2	H	2212	GLN
2	H	2230	ASN
2	H	2243	GLN
2	H	2244	ASN
2	H	2262	ASN
1	I	2313	ASN
1	I	2339	HIS
1	I	2346	GLN
1	I	2373	ASN
1	I	2456	HIS
1	I	2489	GLN
1	I	2490	GLN
1	I	2534	GLN
1	I	2548	GLN
2	J	2615	GLN
2	J	2625	HIS
2	J	2632	GLN
2	J	2659	ASN
2	J	2678	GLN
2	J	2694	ASN
2	J	2764	GLN
2	J	2824	GLN
1	K	2917	GLN
1	K	2930	ASN
1	K	2957	GLN
1	K	3042	GLN
1	K	3046	GLN
1	K	3060	GLN
1	K	3119	GLN

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

There are no ligands in this entry.

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-19459. These allow visual inspection of the internal detail of the map and identification of artifacts.

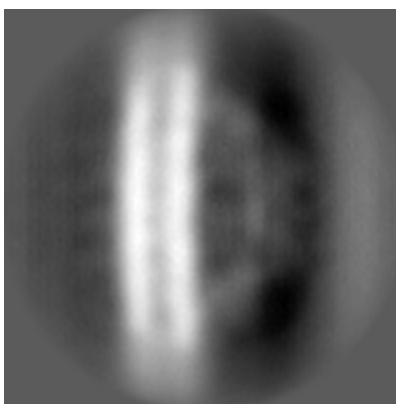
Images derived from a raw map, generated by summing the deposited half-maps, are presented below the corresponding image components of the primary map to allow further visual inspection and comparison with those of the primary map.

6.1 Orthogonal projections [i](#)

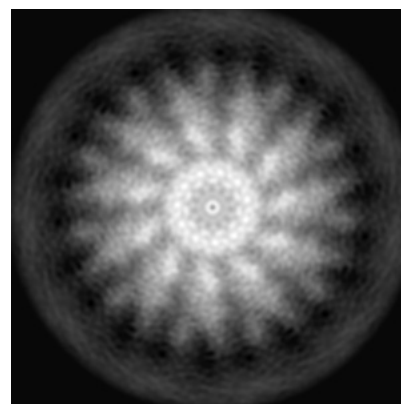
6.1.1 Primary map



X



Y

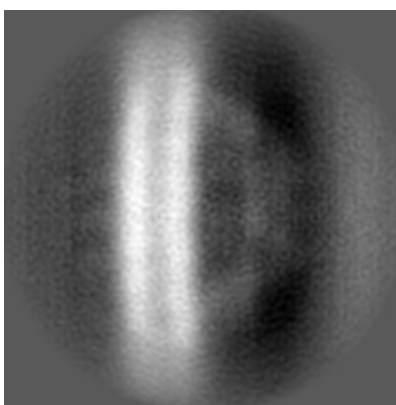


Z

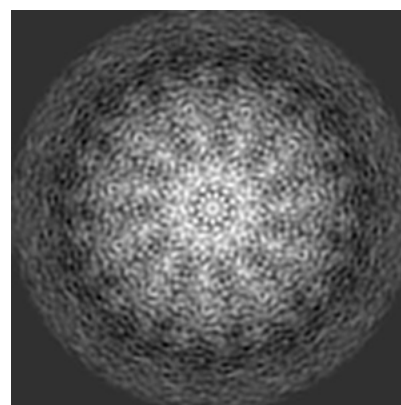
6.1.2 Raw map



X



Y

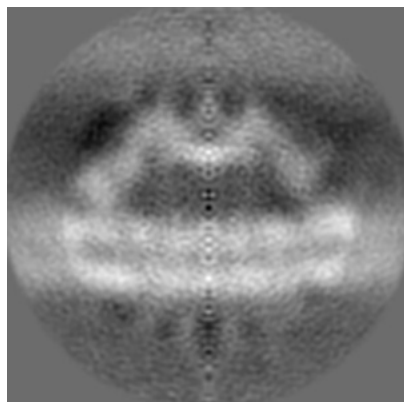


Z

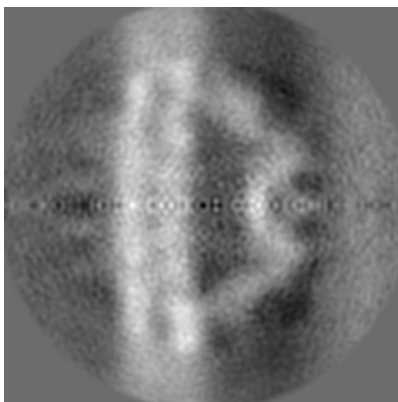
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

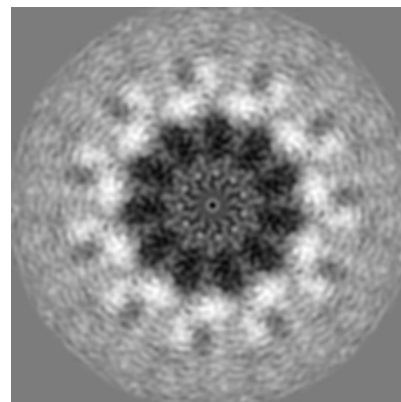
6.2.1 Primary map



X Index: 60

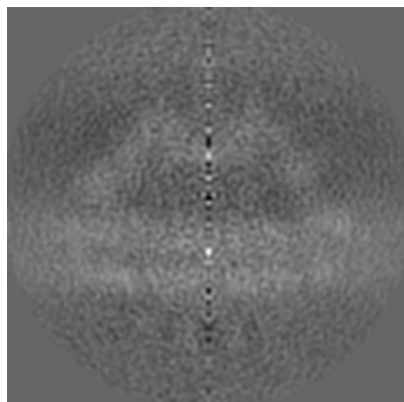


Y Index: 60

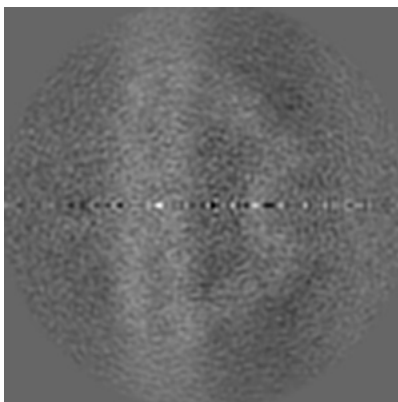


Z Index: 60

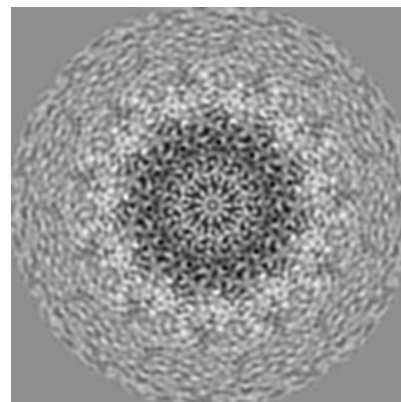
6.2.2 Raw map



X Index: 60



Y Index: 60

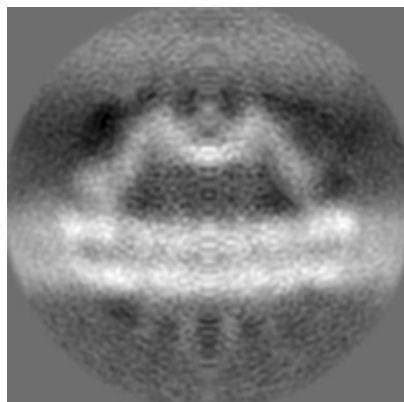


Z Index: 60

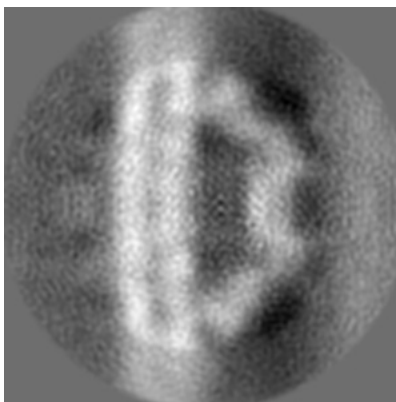
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

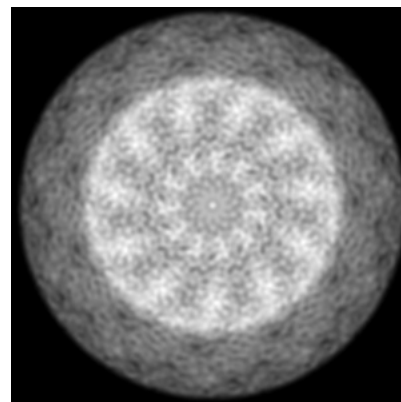
6.3.1 Primary map



X Index: 62

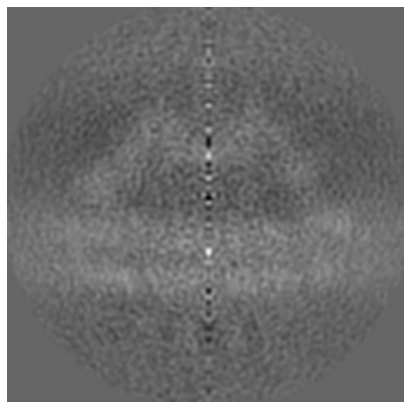


Y Index: 66

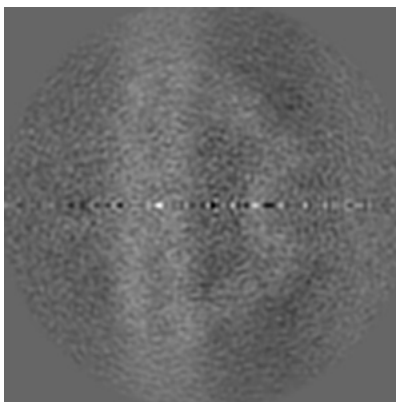


Z Index: 39

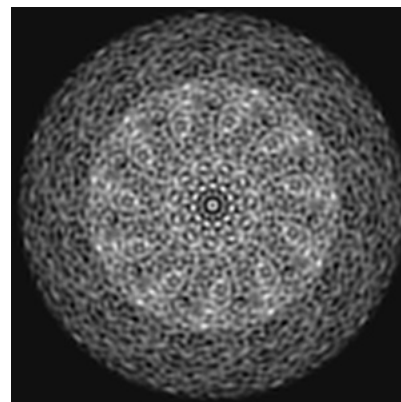
6.3.2 Raw map



X Index: 60



Y Index: 60

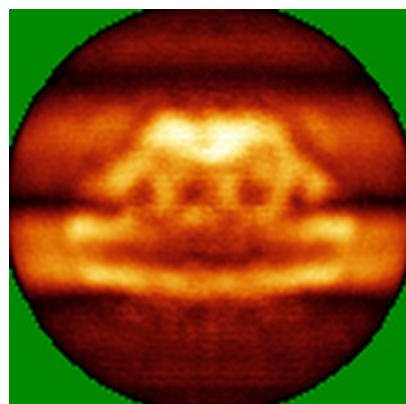


Z Index: 39

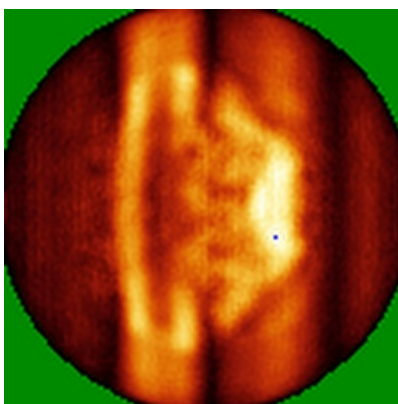
The images above show the largest variance slices of the map in three orthogonal directions.

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

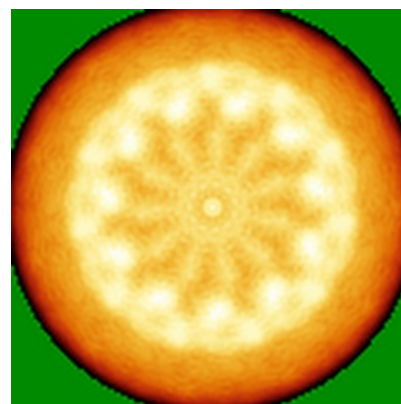
6.4.1 Primary map



X

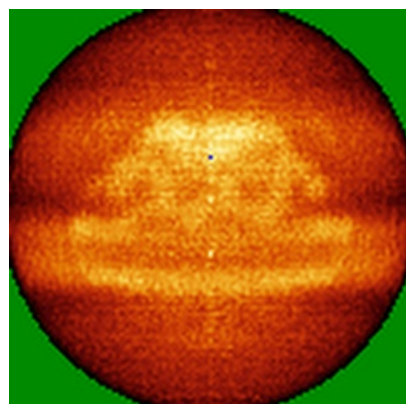


Y

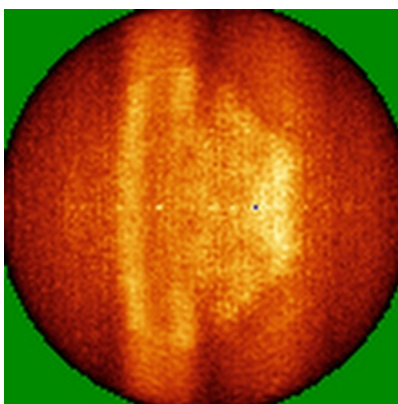


Z

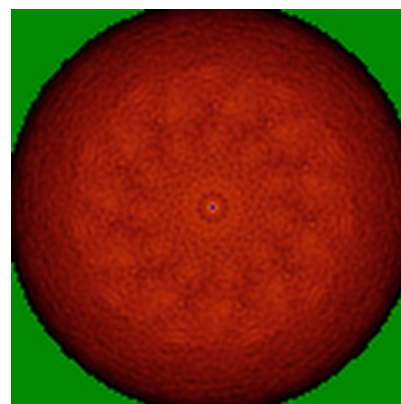
6.4.2 Raw map



X



Y

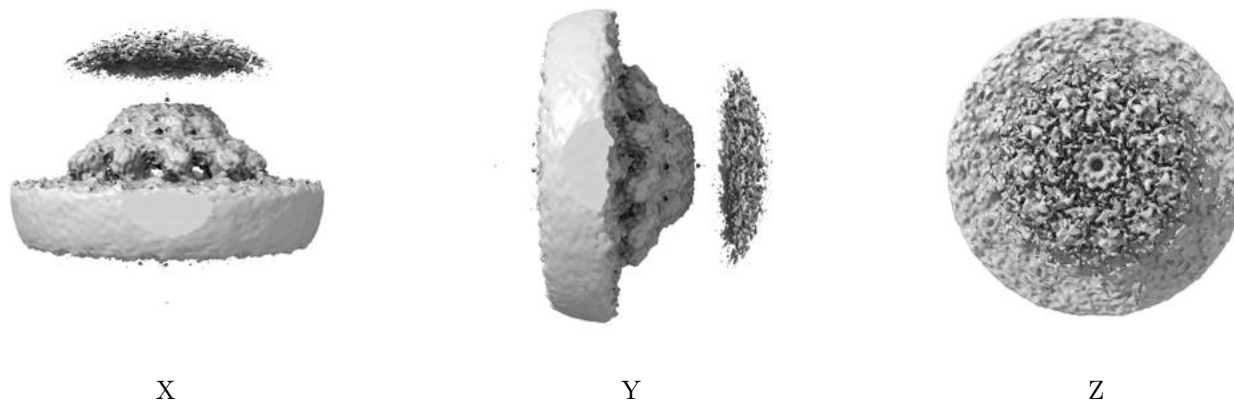


Z

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

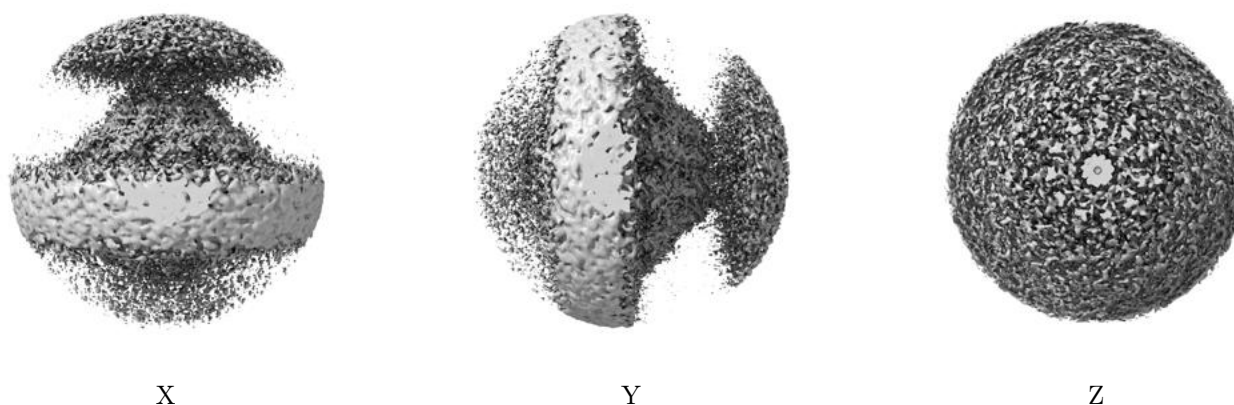
6.5 Orthogonal surface views [i](#)

6.5.1 Primary map



The images above show the 3D surface view of the map at the recommended contour level 0.075. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

6.5.2 Raw map



These images show the 3D surface of the raw map. The raw map's contour level was selected so that its surface encloses the same volume as the primary map does at its recommended contour level.

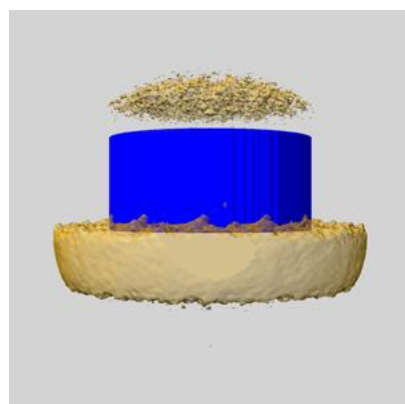
6.6 Mask visualisation [i](#)

This section shows the 3D surface view of the primary map at 50% transparency overlaid with the specified mask at 0% transparency

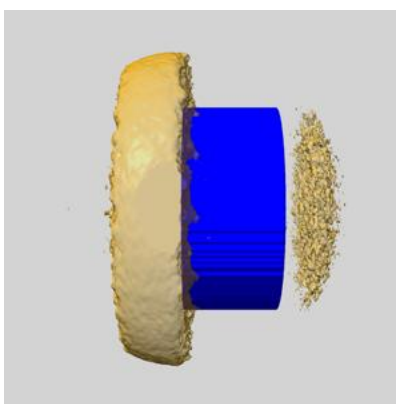
A mask typically either:

- Encompasses the whole structure
- Separates out a domain, a functional unit, a monomer or an area of interest from a larger structure

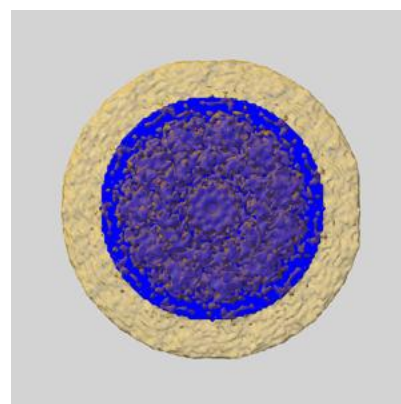
6.6.1 emd_19459_msk_1.map [i](#)



X



Y

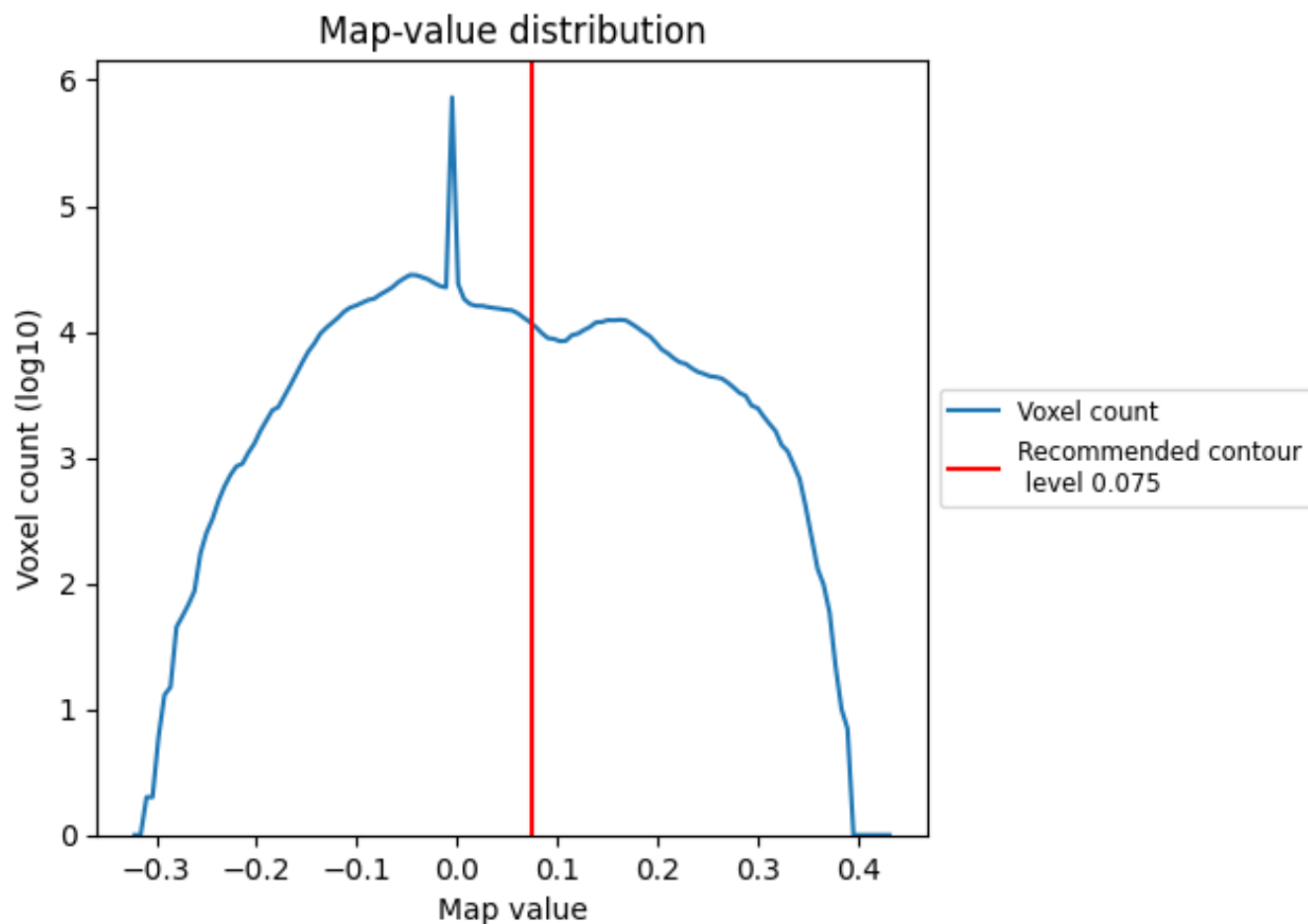


Z

7 Map analysis [i](#)

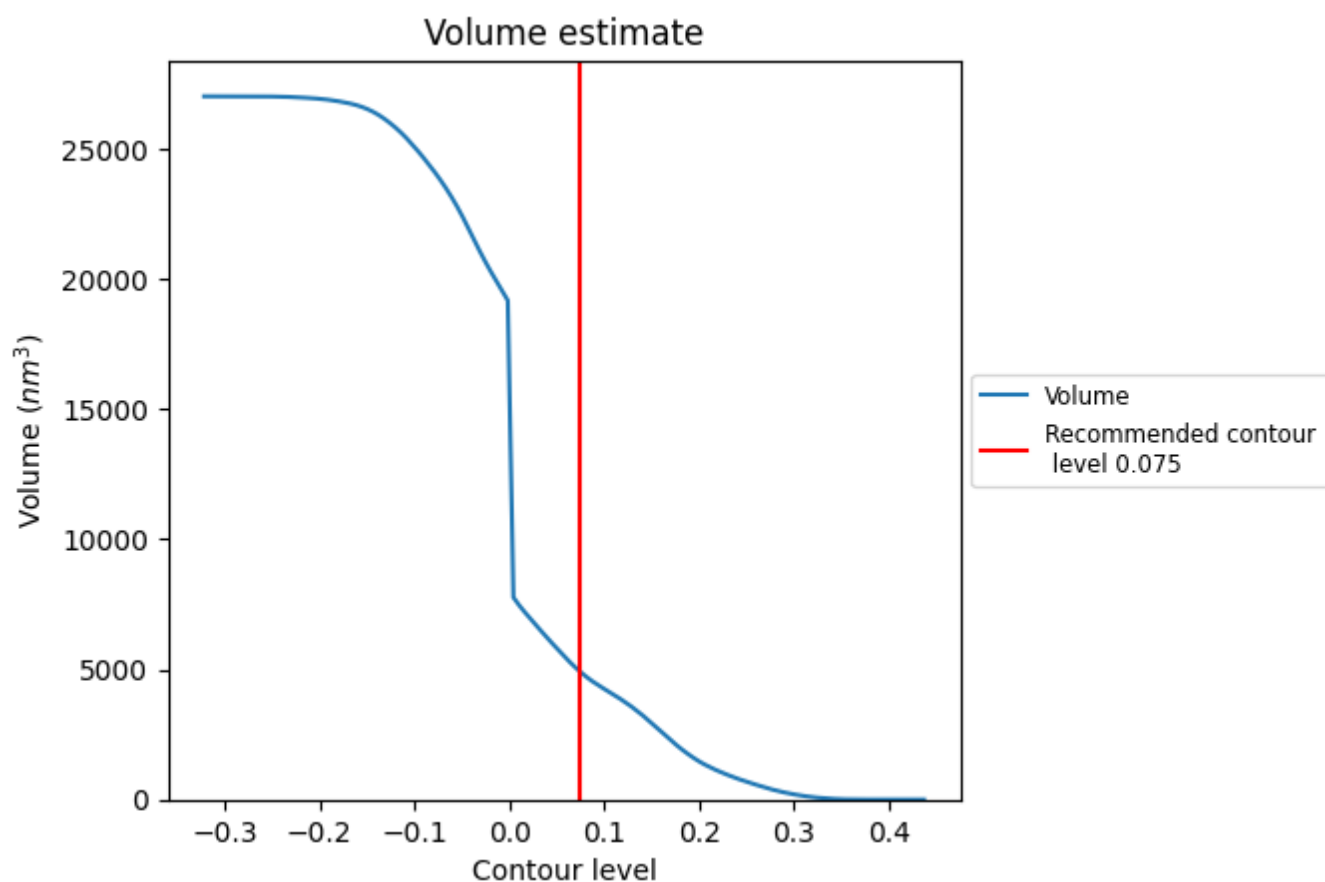
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution [i](#)



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

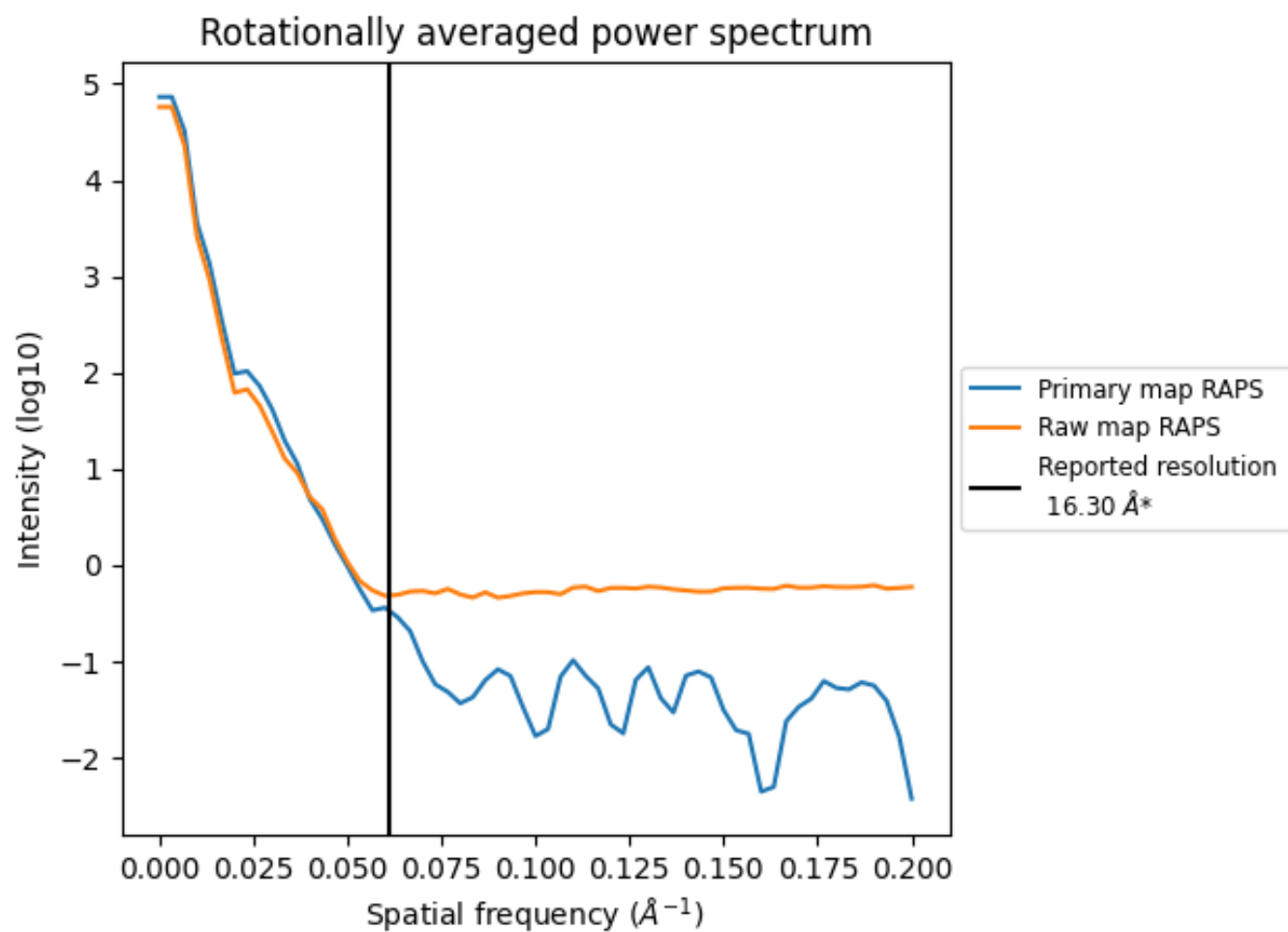
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 4900 nm³; this corresponds to an approximate mass of 4426 kDa.

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

7.3 Rotationally averaged power spectrum ⓘ

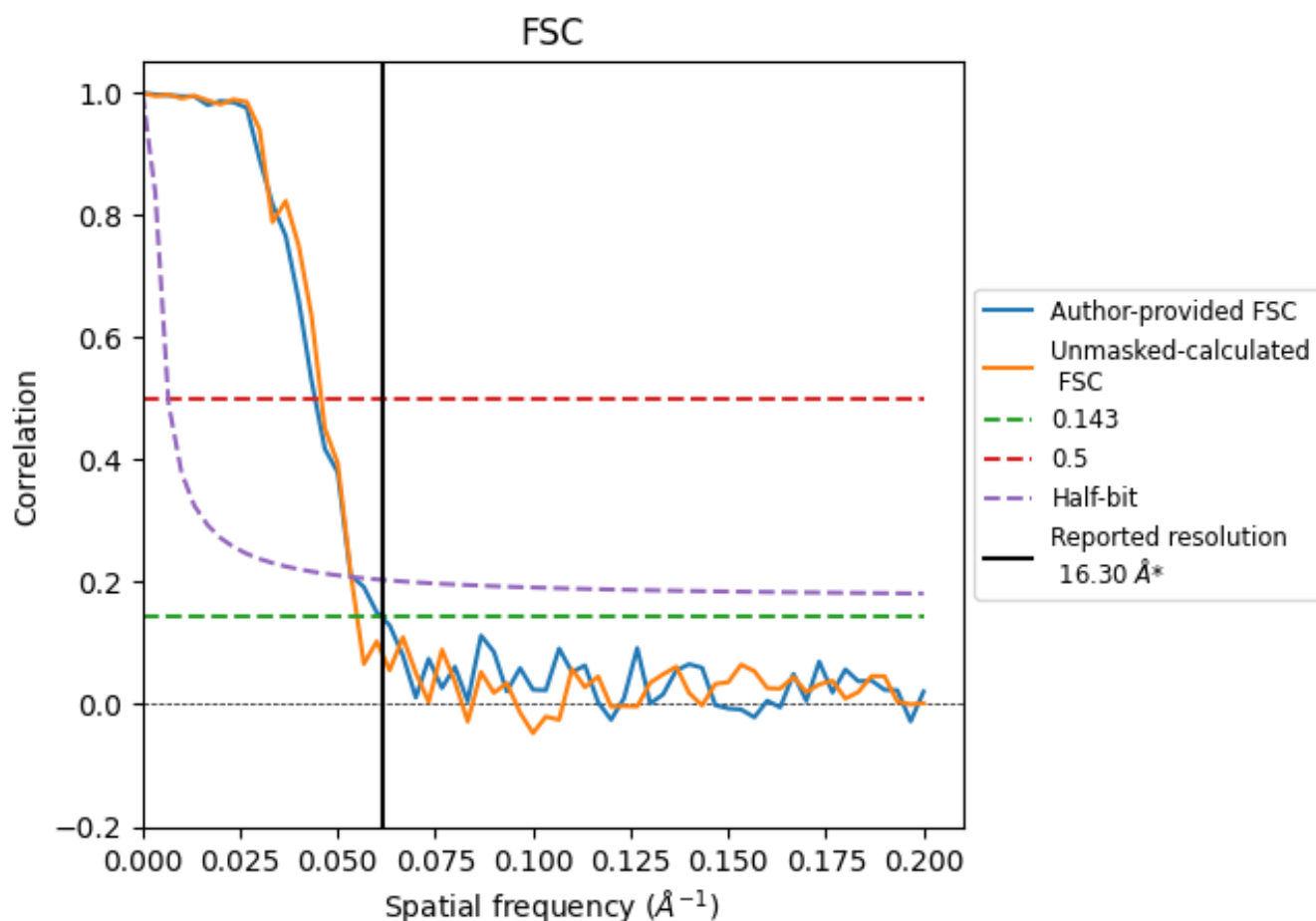


*Reported resolution corresponds to spatial frequency of 0.061 Å⁻¹

8 Fourier-Shell correlation [i](#)

Fourier-Shell Correlation (FSC) is the most commonly used method to estimate the resolution of single-particle and subtomogram-averaged maps. The shape of the curve depends on the imposed symmetry, mask and whether or not the two 3D reconstructions used were processed from a common reference. The reported resolution is shown as a black line. A curve is displayed for the half-bit criterion in addition to lines showing the 0.143 gold standard cut-off and 0.5 cut-off.

8.1 FSC [i](#)



*Reported resolution corresponds to spatial frequency of $0.061 \text{ \AA}^{-1}$

8.2 Resolution estimates [i](#)

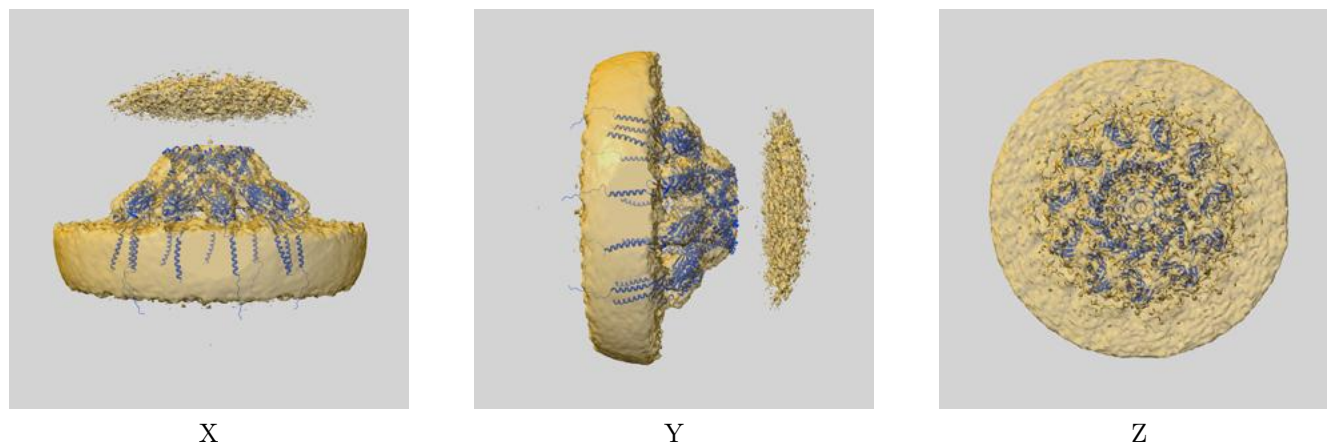
Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	16.30	-	-
Author-provided FSC curve	16.34	22.62	18.42
Unmasked-calculated*	18.18	21.83	18.69

*Resolution estimate based on FSC curve calculated by comparison of deposited half-maps. The value from deposited half-maps intersecting FSC 0.143 CUT-OFF 18.18 differs from the reported value 16.3 by more than 10 %

9 Map-model fit [i](#)

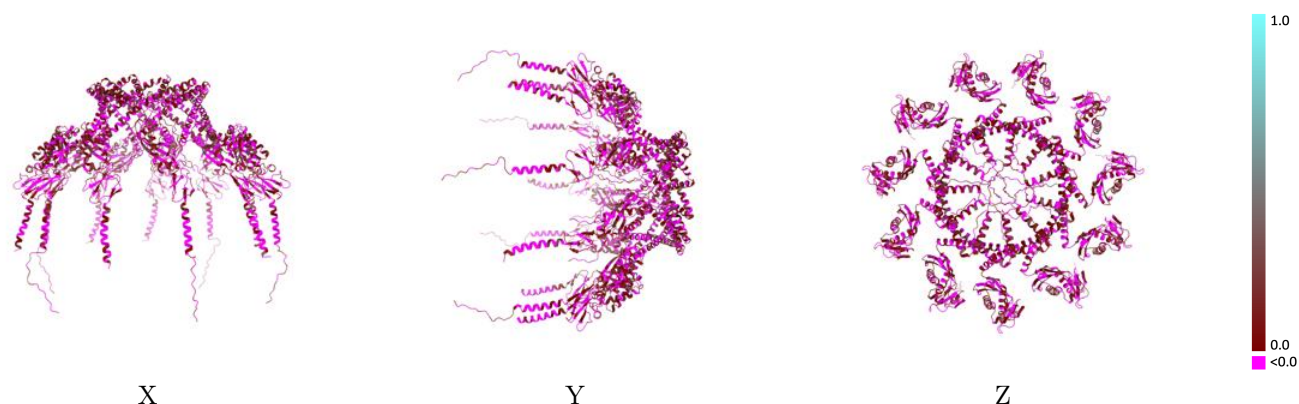
This section contains information regarding the fit between EMDB map EMD-19459 and PDB model 8RRH. Per-residue inclusion information can be found in [section 3](#) on [page 5](#).

9.1 Map-model overlay [i](#)



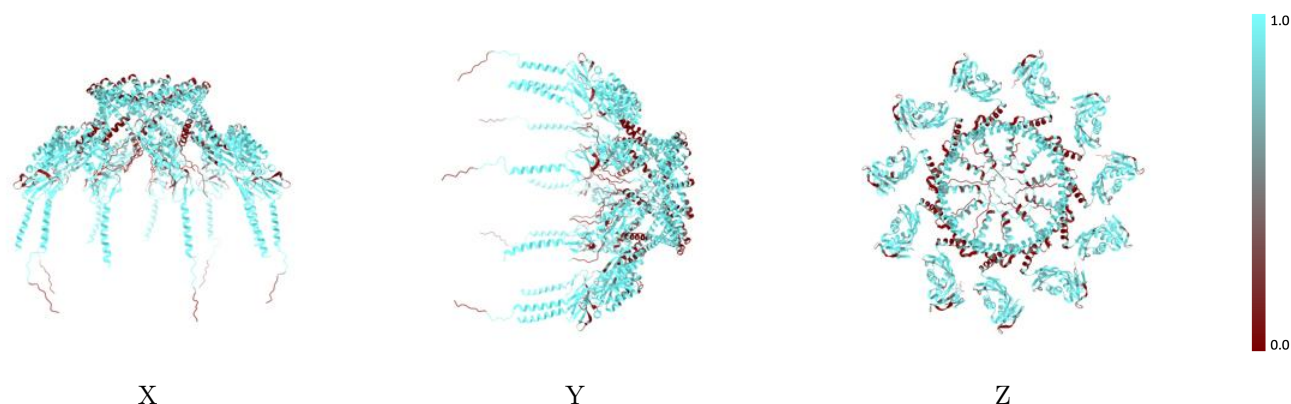
The images above show the 3D surface view of the map at the recommended contour level 0.075 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

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



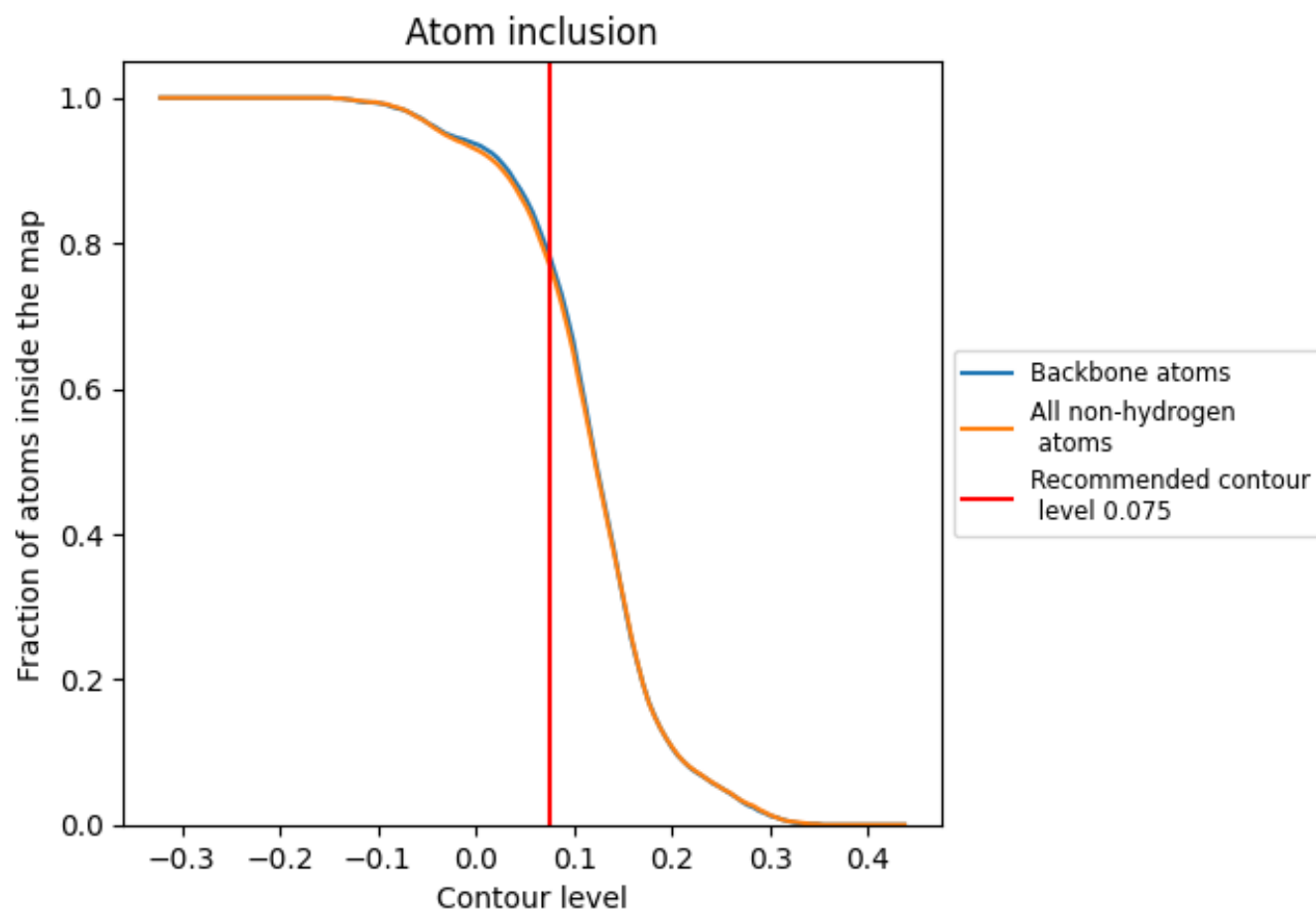
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions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

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



The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (0.075).

9.4 Atom inclusion [i](#)



At the recommended contour level, 78% of all backbone atoms, 77% of all non-hydrogen atoms, are inside the map.

9.5 Map-model fit summary ⓘ

The table lists the average atom inclusion at the recommended contour level (0.075) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	0.7700	0.0250
A	0.8140	0.0310
B	0.7280	0.0200
C	0.7950	0.0300
D	0.7410	0.0240
E	0.8210	0.0250
F	0.7490	0.0240
G	0.7970	0.0220
H	0.7260	0.0290
I	0.7920	0.0250
J	0.7280	0.0180
K	0.8030	0.0290

1.0

0.0

<0.0