



Full wwPDB EM Validation Report ⓘ

Mar 5, 2026 – 03:30 PM UTC

PDB ID : 2ZLE / pdb_00002zle
EMDB ID : EMD-1505
Title : Cryo-EM structure of DegP12/OMP
Authors : Schaefer, E.; Saibil, H.R.
Deposited on : 2008-04-09
Resolution : 28.00 Å(reported)

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

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

A user guide is available at

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

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

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

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

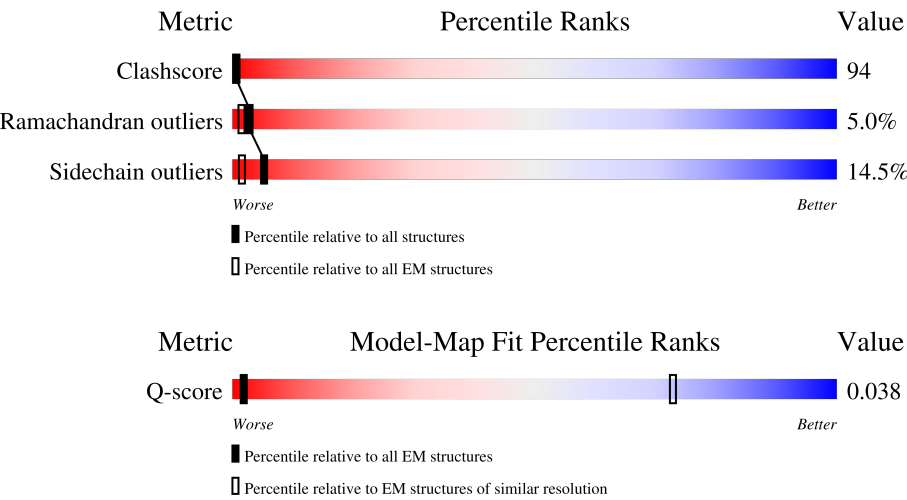
EMDB validation analysis : 0.0.1.dev132
MolProbity : 4-5-2 with Phenix2.0
Percentile statistics : 20250101.v01 (using entries in the PDB archive January 1st 2025)
EM percentile statistics : 202505.v01 (Using data in the EMDB archive up until May 2025)
MapQ : 1.9.13
Ideal geometry (proteins) : Engh &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

1 Overall quality at a glance i

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

The reported resolution of this entry is 28.00 Å.

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



Metric	Whole archive (#Entries)	EM structures (#Entries)	Similar EM resolution (#Entries, resolution range(Å))
Clashscore	229148	23984	-
Ramachandran outliers	224038	23583	-
Sidechain outliers	223484	23102	-
Q-score	-	25397	11 (27.70 - 28.40)

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	448	30%44%12%12% 30%44%12%12%
1	B	448	31%42%12%12% 31%42%12%12%
1	C	448	5%30%43%12%12% 5%30%43%12%12%
1	E	448	30%43%12%12% 30%43%12%12%

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Mol	Chain	Length	Quality of chain
1	F	448	
1	G	448	
1	H	448	
1	I	448	
1	J	448	
1	K	448	
1	L	448	
1	M	448	
2	D	346	

2 Entry composition

There are 2 unique types of molecules in this entry. The entry contains 37730 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 Protease do.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	A	396	Total	C	N	O	S	0	0
			2918	1818	519	568	13		
1	B	396	Total	C	N	O	S	0	0
			2918	1818	519	568	13		
1	C	396	Total	C	N	O	S	0	0
			2918	1818	519	568	13		
1	E	396	Total	C	N	O	S	0	0
			2918	1818	519	568	13		
1	F	396	Total	C	N	O	S	0	0
			2918	1818	519	568	13		
1	G	396	Total	C	N	O	S	0	0
			2918	1818	519	568	13		
1	H	396	Total	C	N	O	S	0	0
			2918	1818	519	568	13		
1	I	396	Total	C	N	O	S	0	0
			2918	1818	519	568	13		
1	J	396	Total	C	N	O	S	0	0
			2918	1818	519	568	13		
1	K	396	Total	C	N	O	S	0	0
			2918	1818	519	568	13		
1	L	396	Total	C	N	O	S	0	0
			2918	1818	519	568	13		
1	M	396	Total	C	N	O	S	0	0
			2918	1818	519	568	13		

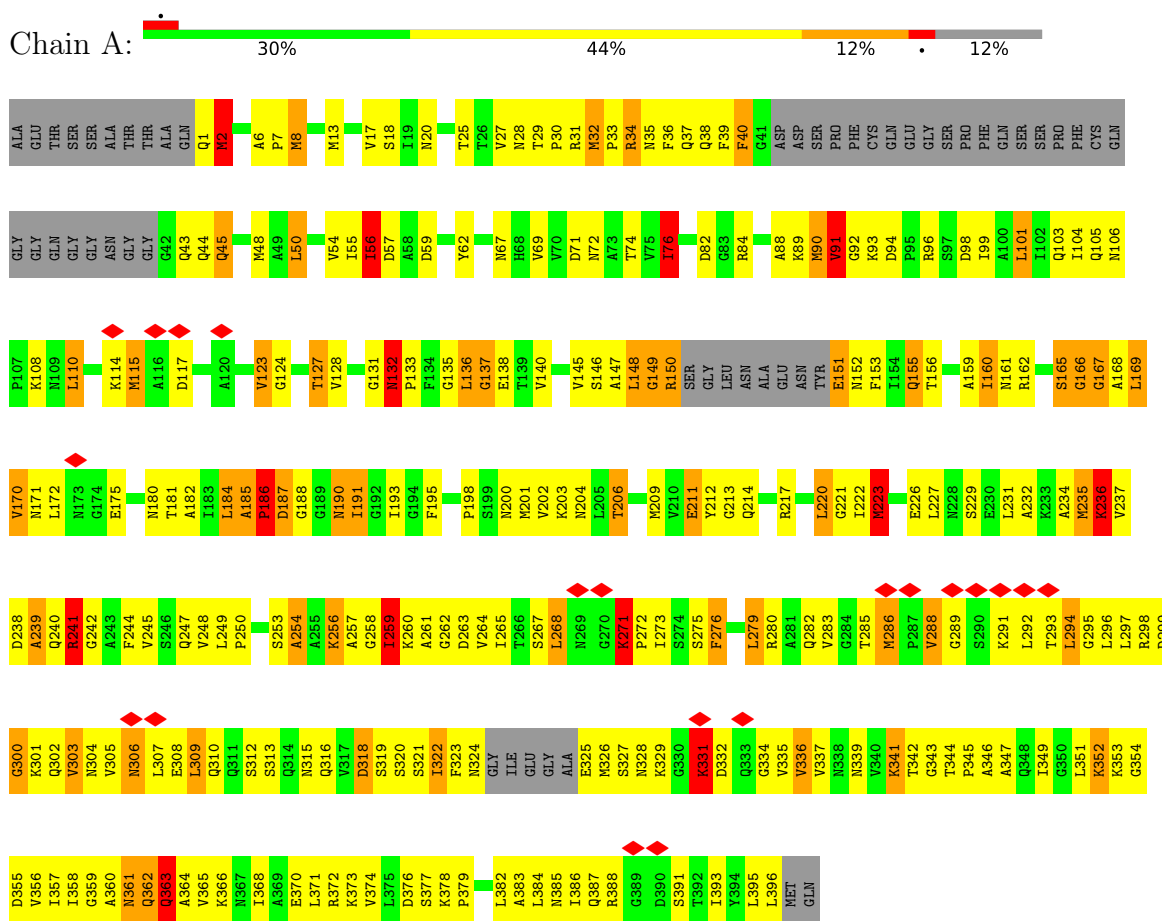
- Molecule 2 is a protein called Outer membrane protein C.

Mol	Chain	Residues	Atoms					AltConf	Trace
2	D	346	Total	C	N	O	S	0	0
			2714	1699	458	554	3		

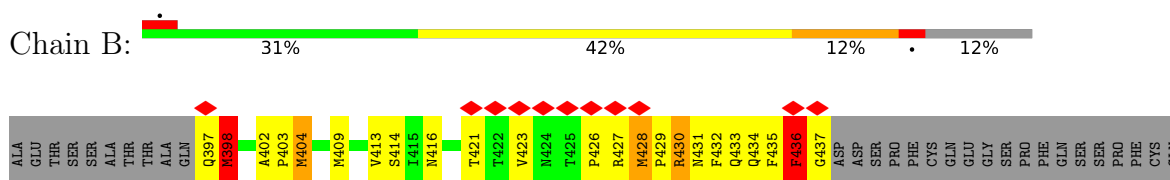
3 Residue-property plots

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.

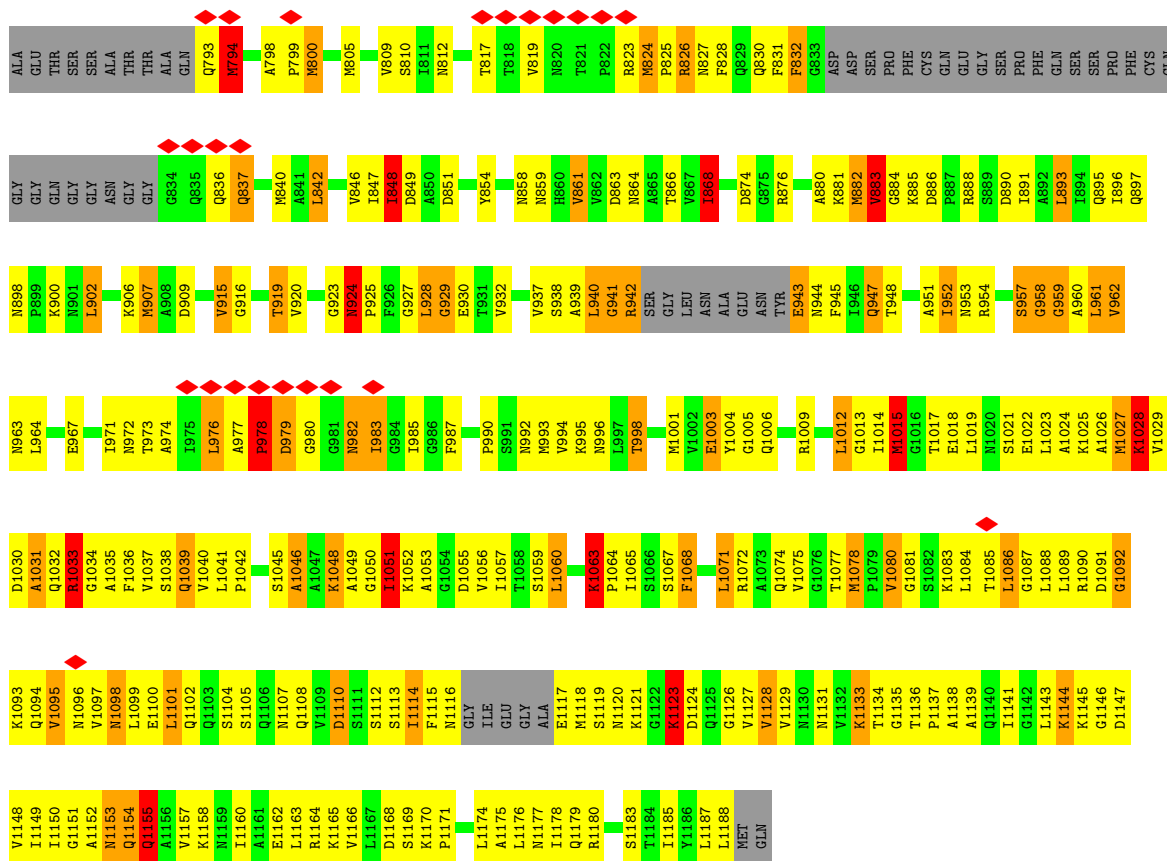
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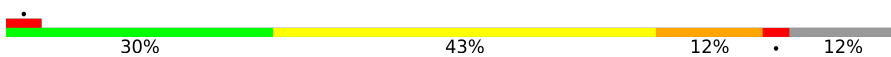
• Molecule 1: Protease do

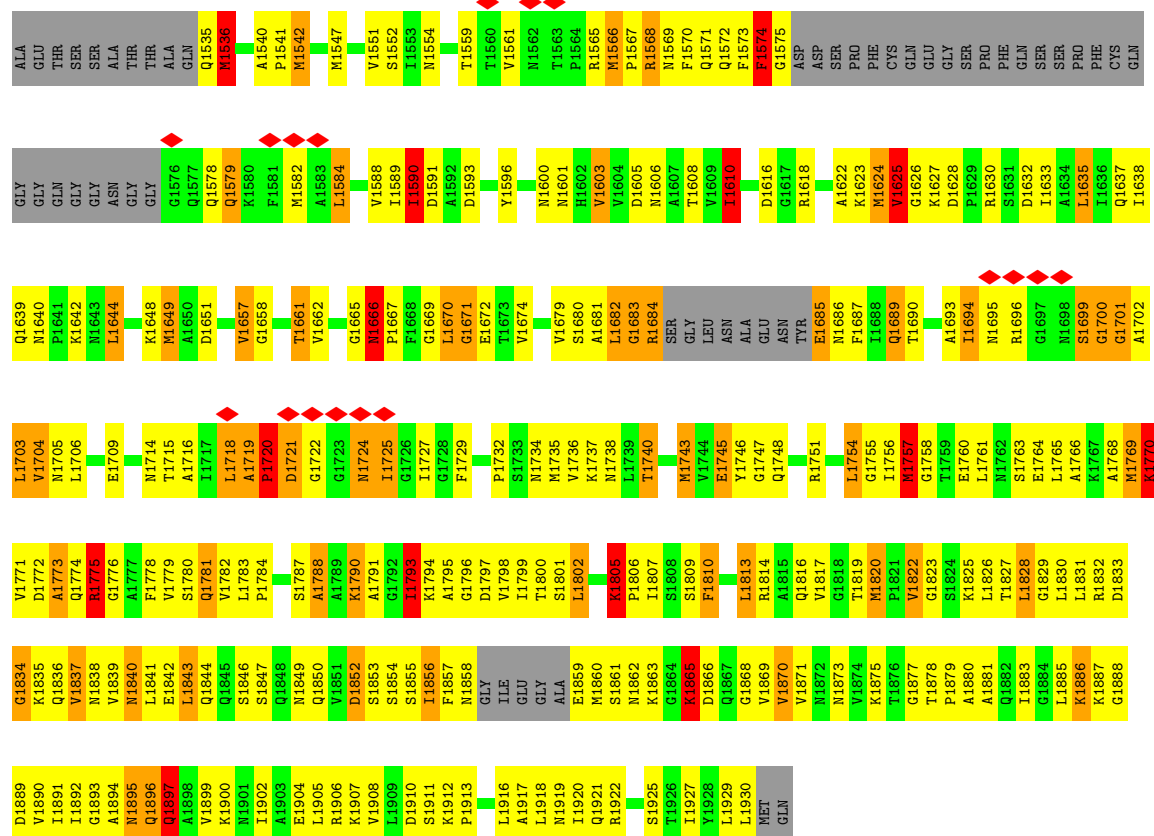


- Molecule 1: Protease do

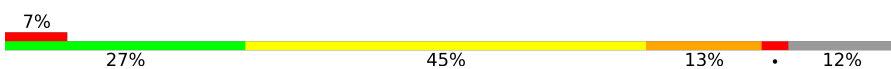


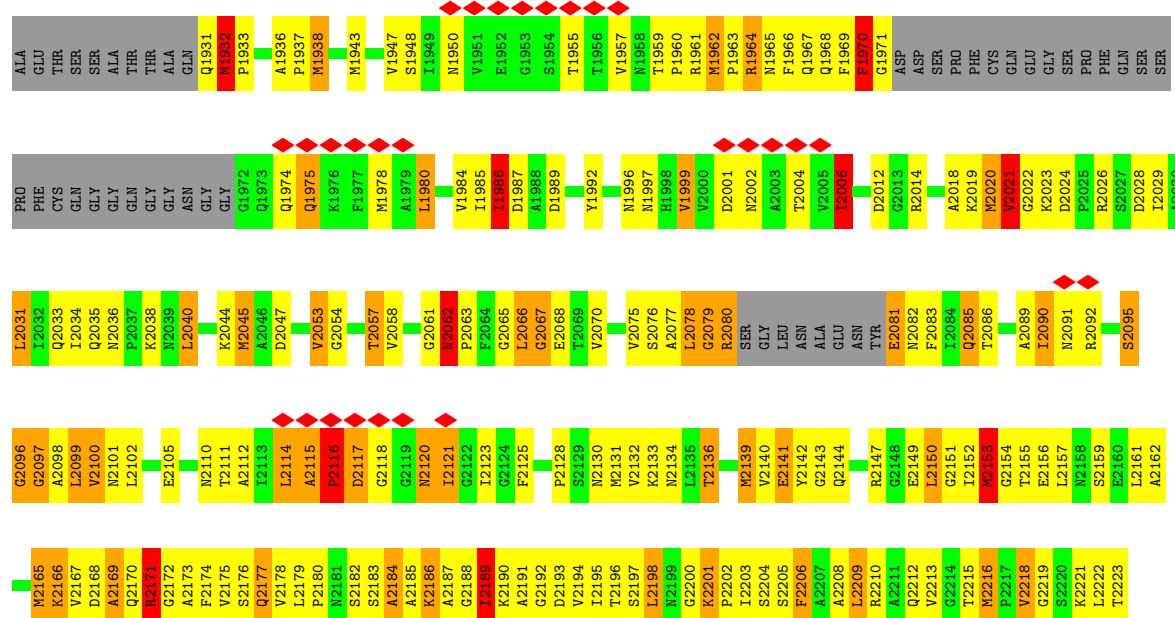
- Molecule 1: Protease do

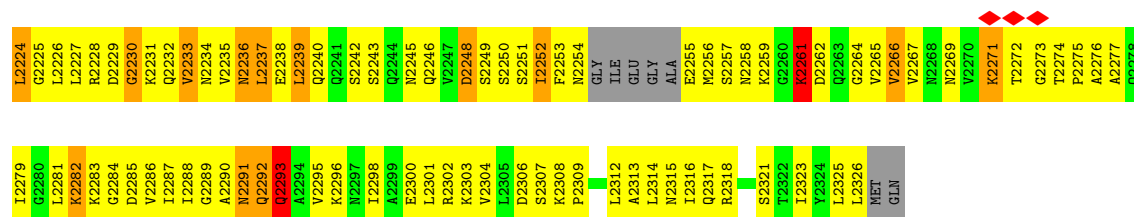
Chain E: 



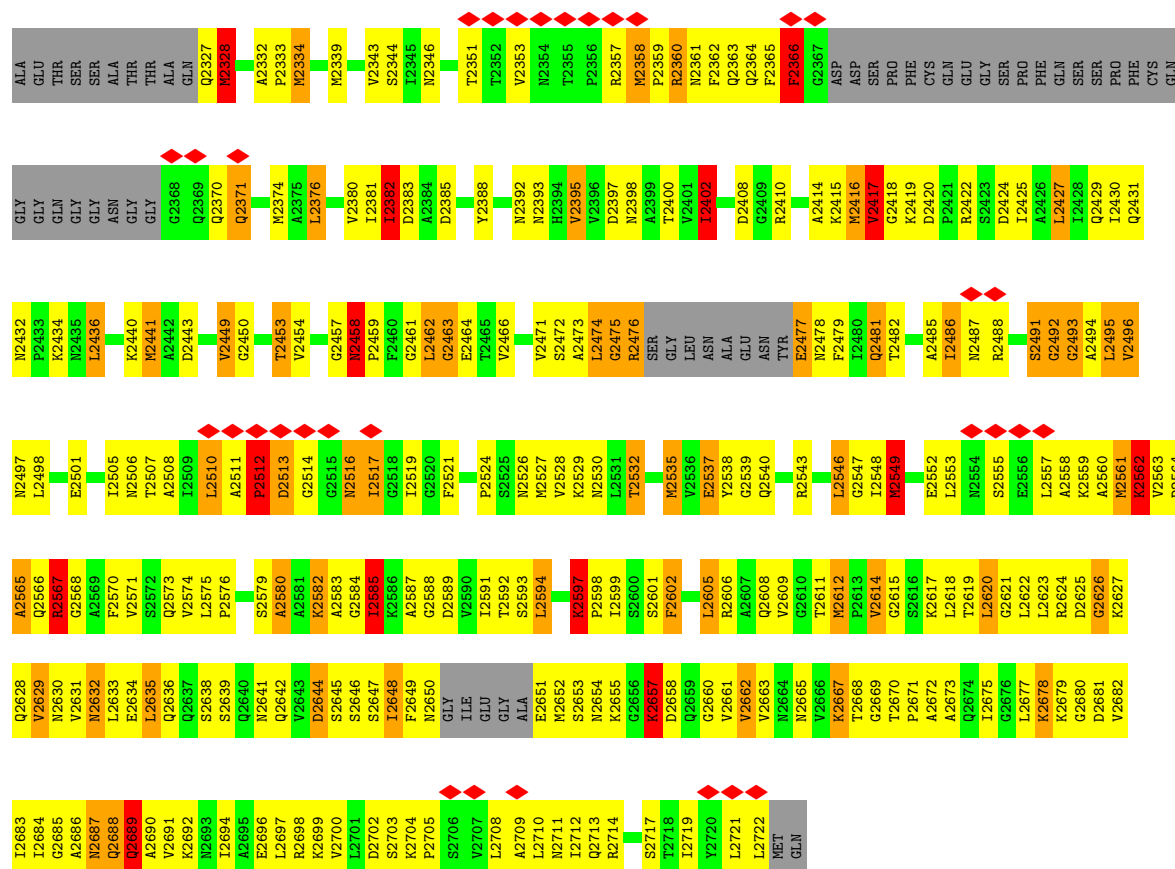
• Molecule 1: Protease do

Chain F: 

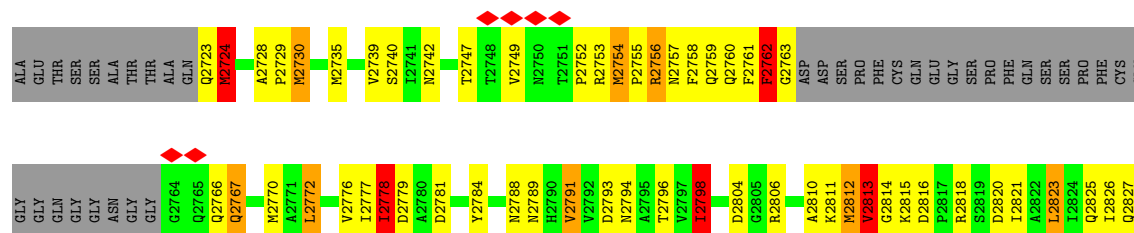


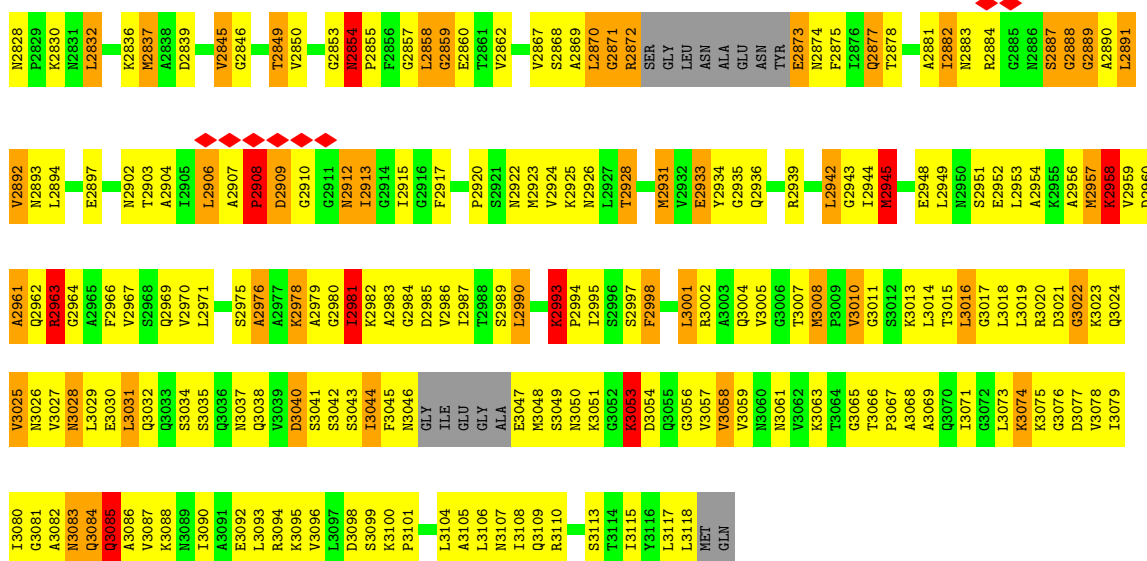


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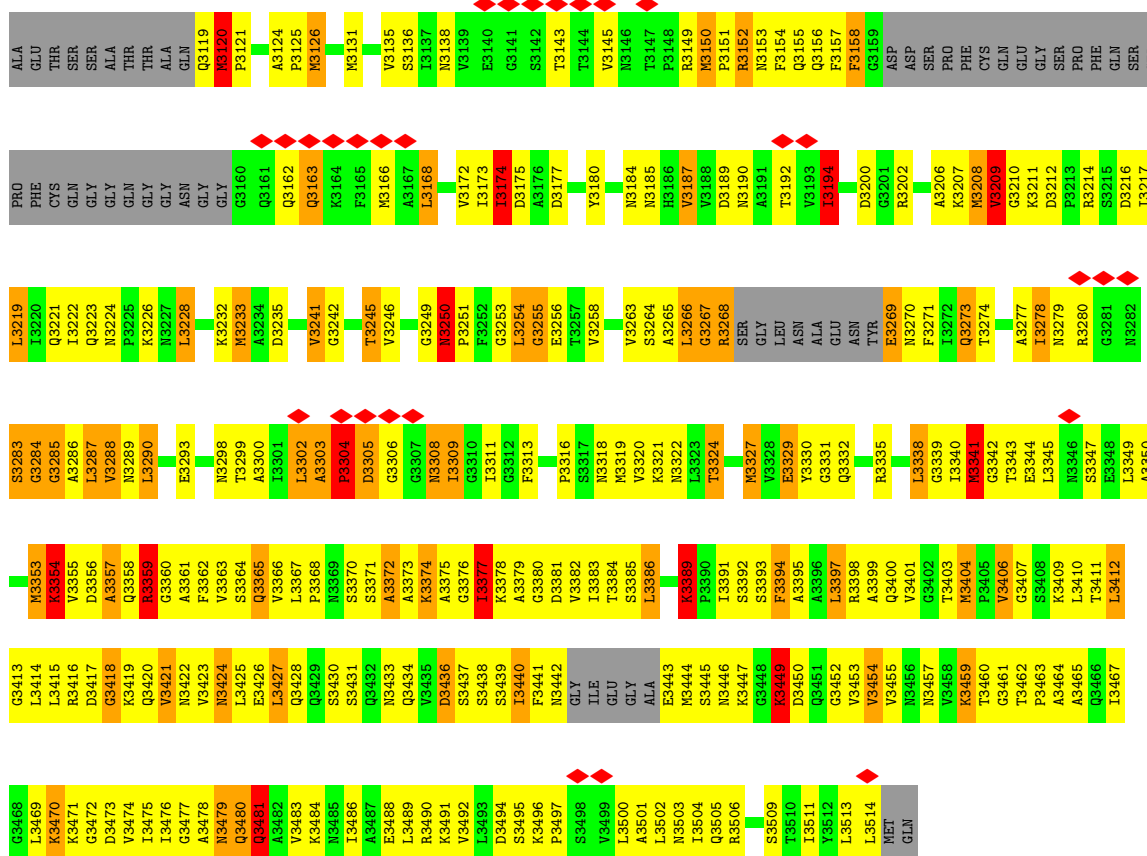


• Molecule 1: Protease do



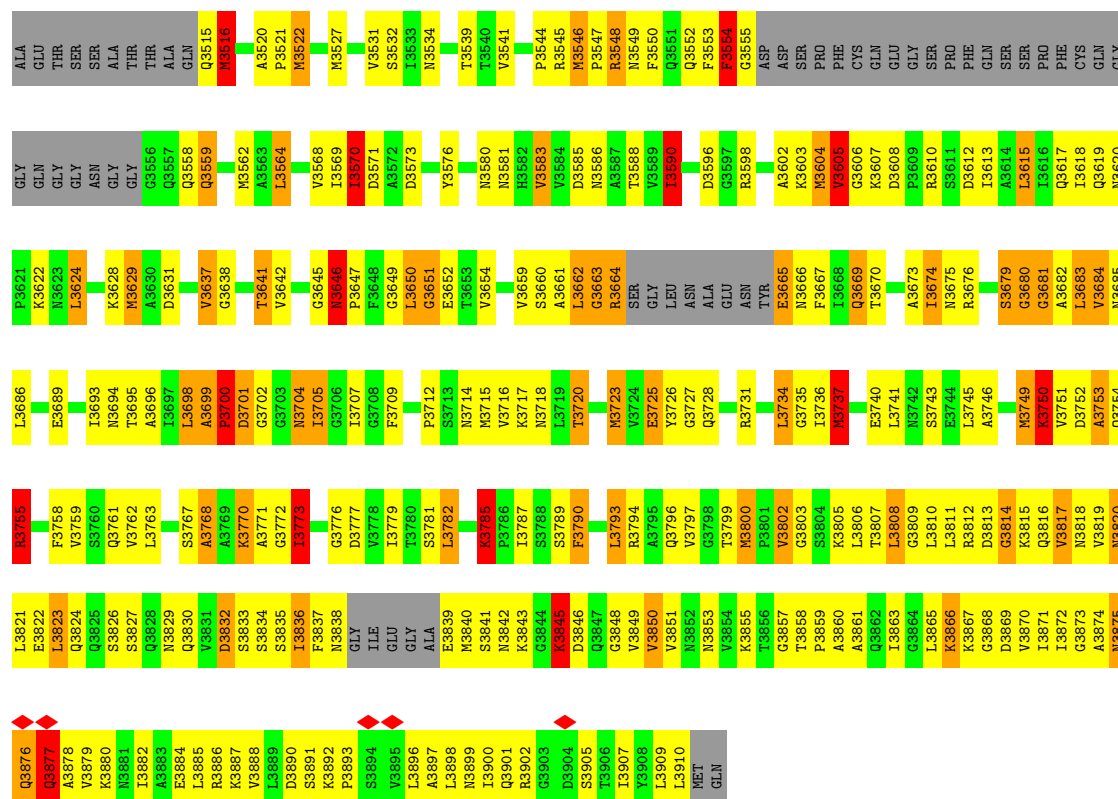


• Molecule 1: Protease do

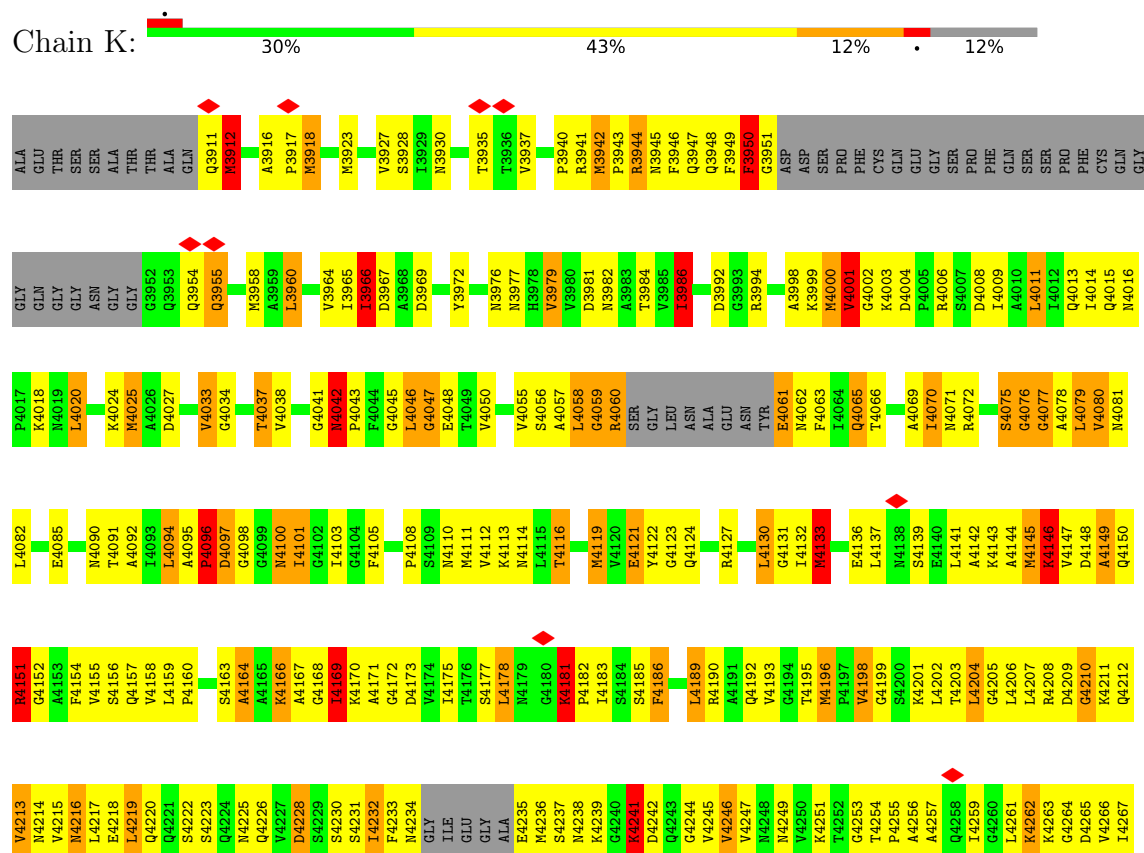


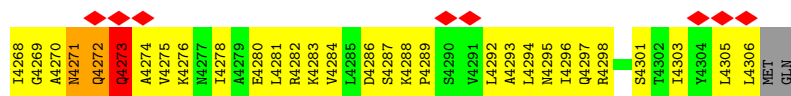
• Molecule 1: Protease do



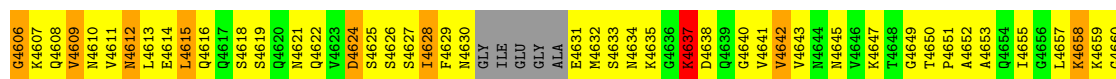
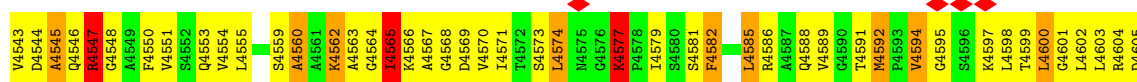
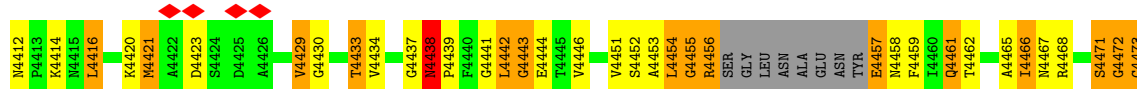


• Molecule 1: Protease do

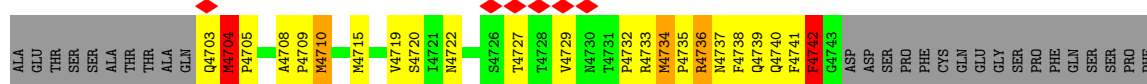


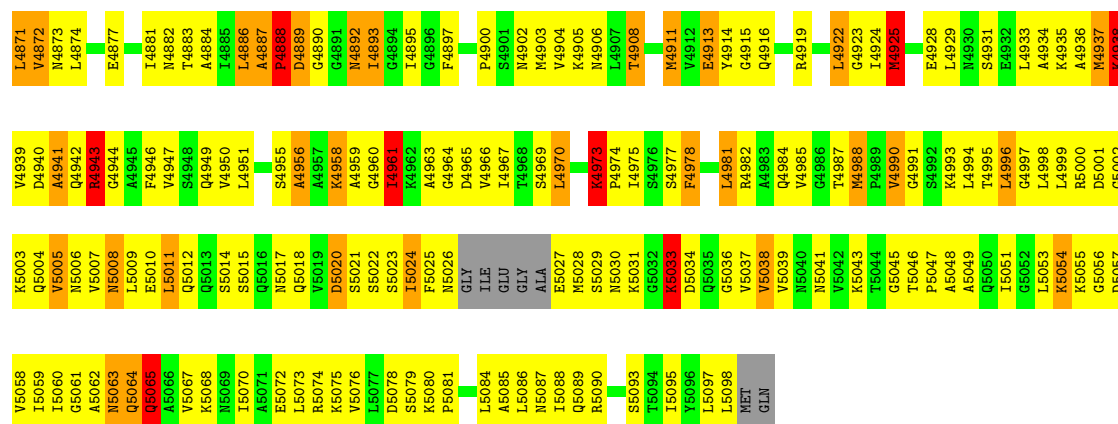


• Molecule 1: Protease do



• Molecule 1: Protease do





4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, C1	Depositor
Number of particles used	6285	Depositor
Resolution determination method	Not provided	
CTF correction method	phase flipping	Depositor
Microscope	FEI TECNAI F20	Depositor
Voltage (kV)	200	Depositor
Electron dose ($e^-/\text{\AA}^2$)	Not provided	
Minimum defocus (nm)	Not provided	
Maximum defocus (nm)	Not provided	
Magnification	68100	Depositor
Image detector	Not provided	
Maximum map value	1.059	Depositor
Minimum map value	-0.694	Depositor
Average map value	0.000	Depositor
Map value standard deviation	0.050	Depositor
Recommended contour level	0.0127	Depositor
Map size ($\text{\AA}$)	444, 444, 444	wwPDB
Map dimensions	100, 100, 100	wwPDB
Map angles ($^\circ$)	90, 90, 90	wwPDB
Pixel spacing ($\text{\AA}$)	4.44, 4.44, 4.44	Depositor

5 Model quality ⓘ

5.1 Standard geometry ⓘ

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	$\# Z > 5$	RMSZ	$\# Z > 5$
1	A	0.89	20/2945 (0.7%)	1.62	31/3973 (0.8%)
1	B	0.89	19/2945 (0.6%)	1.62	31/3973 (0.8%)
1	C	0.90	20/2945 (0.7%)	1.62	31/3973 (0.8%)
1	E	0.89	20/2945 (0.7%)	1.62	31/3973 (0.8%)
1	F	0.89	20/2945 (0.7%)	1.62	31/3973 (0.8%)
1	G	0.90	19/2945 (0.6%)	1.62	31/3973 (0.8%)
1	H	0.89	20/2945 (0.7%)	1.62	31/3973 (0.8%)
1	I	0.89	19/2945 (0.6%)	1.62	31/3973 (0.8%)
1	J	0.89	20/2945 (0.7%)	1.62	31/3973 (0.8%)
1	K	0.89	19/2945 (0.6%)	1.62	31/3973 (0.8%)
1	L	0.89	19/2945 (0.6%)	1.62	31/3973 (0.8%)
1	M	0.90	19/2945 (0.6%)	1.62	31/3973 (0.8%)
2	D	0.67	2/2773 (0.1%)	0.70	3/3753 (0.1%)
All	All	0.88	236/38113 (0.6%)	1.57	375/51429 (0.7%)

All (236) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	D	1327	LEU	CB-CG	-20.30	1.12	1.53
1	A	201	MET	SD-CE	6.49	1.95	1.79
1	E	1735	MET	SD-CE	6.48	1.95	1.79
1	K	4111	MET	SD-CE	6.48	1.95	1.79
1	F	2131	MET	SD-CE	6.48	1.95	1.79
1	M	4903	MET	SD-CE	6.47	1.95	1.79
1	G	2527	MET	SD-CE	6.47	1.95	1.79
1	H	2923	MET	SD-CE	6.47	1.95	1.79
1	L	4507	MET	SD-CE	6.46	1.95	1.79
1	J	3715	MET	SD-CE	6.45	1.95	1.79
1	I	3319	MET	SD-CE	6.44	1.95	1.79
1	B	597	MET	SD-CE	6.44	1.95	1.79
1	C	993	MET	SD-CE	6.44	1.95	1.79
1	J	3516	MET	SD-CE	6.36	1.95	1.79
1	E	1536	MET	SD-CE	6.36	1.95	1.79

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	F	1932	MET	SD-CE	6.36	1.95	1.79
1	H	2724	MET	SD-CE	6.35	1.95	1.79
1	C	794	MET	SD-CE	6.35	1.95	1.79
1	A	2	MET	SD-CE	6.34	1.95	1.79
1	M	4704	MET	SD-CE	6.34	1.95	1.79
1	K	3912	MET	SD-CE	6.34	1.95	1.79
1	I	3120	MET	SD-CE	6.33	1.95	1.79
1	I	3166	MET	SD-CE	6.33	1.95	1.79
1	J	3562	MET	SD-CE	6.33	1.95	1.79
1	L	4308	MET	SD-CE	6.33	1.95	1.79
1	M	4750	MET	SD-CE	6.33	1.95	1.79
1	B	444	MET	SD-CE	6.32	1.95	1.79
1	G	2374	MET	SD-CE	6.32	1.95	1.79
1	L	4354	MET	SD-CE	6.32	1.95	1.79
1	G	2328	MET	SD-CE	6.32	1.95	1.79
1	F	1978	MET	SD-CE	6.32	1.95	1.79
1	A	48	MET	SD-CE	6.31	1.95	1.79
1	B	398	MET	SD-CE	6.30	1.95	1.79
1	C	840	MET	SD-CE	6.30	1.95	1.79
1	H	2770	MET	SD-CE	6.30	1.95	1.79
1	K	3958	MET	SD-CE	6.29	1.95	1.79
1	F	1932	MET	CG-SD	6.29	1.96	1.80
1	A	2	MET	CG-SD	6.28	1.96	1.80
1	E	1582	MET	SD-CE	6.28	1.95	1.79
1	M	4704	MET	CG-SD	6.28	1.96	1.80
1	G	2328	MET	CG-SD	6.28	1.96	1.80
1	L	4308	MET	CG-SD	6.28	1.96	1.80
1	C	794	MET	CG-SD	6.26	1.96	1.80
1	E	1536	MET	CG-SD	6.26	1.96	1.80
1	K	3912	MET	CG-SD	6.26	1.96	1.80
1	I	3120	MET	CG-SD	6.26	1.96	1.80
1	B	398	MET	CG-SD	6.26	1.96	1.80
1	J	3516	MET	CG-SD	6.25	1.96	1.80
1	H	2724	MET	CG-SD	6.23	1.96	1.80
1	G	2402	ILE	CA-CB	5.97	1.61	1.54
1	H	2778	ILE	CA-CB	5.94	1.62	1.54
1	A	56	ILE	CA-CB	5.93	1.62	1.54
1	B	472	ILE	CA-CB	5.92	1.61	1.54
1	E	1590	ILE	CA-CB	5.91	1.62	1.54
1	C	868	ILE	CA-CB	5.91	1.61	1.54
1	H	2798	ILE	CA-CB	5.89	1.61	1.54
1	M	4778	ILE	CA-CB	5.89	1.61	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	L	4382	ILE	CA-CB	5.88	1.61	1.54
1	K	3966	ILE	CA-CB	5.87	1.62	1.54
1	E	1610	ILE	CA-CB	5.86	1.61	1.54
1	J	3590	ILE	CA-CB	5.86	1.61	1.54
1	J	3570	ILE	CA-CB	5.85	1.62	1.54
1	C	1078	MET	SD-CE	5.84	1.94	1.79
1	A	76	ILE	CA-CB	5.84	1.61	1.54
1	I	3194	ILE	CA-CB	5.84	1.61	1.54
1	F	1986	ILE	CA-CB	5.83	1.62	1.54
1	K	3986	ILE	CA-CB	5.83	1.61	1.54
1	B	452	ILE	CA-CB	5.83	1.61	1.54
1	J	3800	MET	SD-CE	5.83	1.94	1.79
1	M	4988	MET	SD-CE	5.83	1.94	1.79
1	F	2216	MET	SD-CE	5.82	1.94	1.79
1	F	2006	ILE	CA-CB	5.82	1.61	1.54
1	L	4592	MET	SD-CE	5.82	1.94	1.79
1	A	286	MET	SD-CE	5.82	1.94	1.79
1	I	3444	MET	SD-CE	5.82	1.94	1.79
1	G	2382	ILE	CA-CB	5.81	1.61	1.54
1	A	326	MET	SD-CE	5.81	1.94	1.79
1	C	1118	MET	SD-CE	5.81	1.94	1.79
1	G	2612	MET	SD-CE	5.81	1.94	1.79
1	I	3404	MET	SD-CE	5.80	1.94	1.79
1	M	4758	ILE	CA-CB	5.80	1.61	1.54
1	B	722	MET	SD-CE	5.80	1.94	1.79
1	B	682	MET	SD-CE	5.80	1.94	1.79
1	F	2256	MET	SD-CE	5.80	1.94	1.79
1	G	2652	MET	SD-CE	5.80	1.94	1.79
1	J	3840	MET	SD-CE	5.80	1.94	1.79
1	I	3174	ILE	CA-CB	5.79	1.61	1.54
1	C	848	ILE	CA-CB	5.79	1.61	1.54
1	H	3048	MET	SD-CE	5.79	1.94	1.79
1	M	5028	MET	SD-CE	5.79	1.94	1.79
1	E	1820	MET	SD-CE	5.78	1.94	1.79
1	K	4236	MET	SD-CE	5.78	1.94	1.79
1	L	4362	ILE	CA-CB	5.78	1.61	1.54
1	L	4632	MET	SD-CE	5.78	1.94	1.79
1	K	4196	MET	SD-CE	5.77	1.94	1.79
1	E	1860	MET	SD-CE	5.76	1.94	1.79
1	H	3008	MET	SD-CE	5.76	1.94	1.79
1	J	3604	MET	SD-CE	5.74	1.94	1.79
1	I	3208	MET	SD-CE	5.74	1.93	1.79

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	L	4396	MET	SD-CE	5.73	1.93	1.79
1	F	2020	MET	SD-CE	5.73	1.93	1.79
1	M	4792	MET	SD-CE	5.73	1.93	1.79
1	B	486	MET	SD-CE	5.72	1.93	1.79
1	G	2416	MET	SD-CE	5.72	1.93	1.79
1	C	882	MET	SD-CE	5.71	1.93	1.79
1	K	4111	MET	CG-SD	5.70	1.95	1.80
1	I	3319	MET	CG-SD	5.70	1.95	1.80
1	H	2923	MET	CG-SD	5.69	1.95	1.80
1	A	201	MET	CG-SD	5.69	1.95	1.80
1	L	4507	MET	CG-SD	5.68	1.95	1.80
1	H	2812	MET	SD-CE	5.67	1.93	1.79
1	E	1624	MET	SD-CE	5.67	1.93	1.79
1	K	4000	MET	SD-CE	5.67	1.93	1.79
1	G	2527	MET	CG-SD	5.67	1.95	1.80
1	A	90	MET	SD-CE	5.67	1.93	1.79
1	C	993	MET	CG-SD	5.67	1.95	1.80
1	E	1735	MET	CG-SD	5.66	1.95	1.80
1	M	4903	MET	CG-SD	5.66	1.94	1.80
1	F	2131	MET	CG-SD	5.65	1.94	1.80
1	B	597	MET	CG-SD	5.65	1.94	1.80
1	J	3715	MET	CG-SD	5.65	1.94	1.80
1	H	2730	MET	CG-SD	5.64	1.94	1.80
1	E	1542	MET	CG-SD	5.62	1.94	1.80
1	K	3918	MET	CG-SD	5.61	1.94	1.80
1	F	1938	MET	CG-SD	5.61	1.94	1.80
1	I	3126	MET	CG-SD	5.60	1.94	1.80
1	A	8	MET	CG-SD	5.59	1.94	1.80
1	L	4314	MET	CG-SD	5.59	1.94	1.80
1	C	800	MET	CG-SD	5.58	1.94	1.80
1	B	511	MET	SD-CE	5.57	1.93	1.79
1	F	2045	MET	SD-CE	5.57	1.93	1.79
1	B	404	MET	CG-SD	5.57	1.94	1.80
1	H	2957	MET	SD-CE	5.56	1.93	1.79
1	L	4421	MET	SD-CE	5.56	1.93	1.79
1	I	3233	MET	SD-CE	5.56	1.93	1.79
1	G	2334	MET	CG-SD	5.55	1.94	1.80
1	M	4817	MET	SD-CE	5.55	1.93	1.79
1	M	4710	MET	CG-SD	5.55	1.94	1.80
2	D	1443	LYS	CB-CG	-5.55	1.35	1.52
1	E	1769	MET	SD-CE	5.55	1.93	1.79
1	A	235	MET	SD-CE	5.54	1.93	1.79

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	C	907	MET	SD-CE	5.54	1.93	1.79
1	J	3522	MET	CG-SD	5.54	1.94	1.80
1	J	3629	MET	SD-CE	5.54	1.93	1.79
1	A	115	MET	SD-CE	5.54	1.93	1.79
1	G	2561	MET	SD-CE	5.53	1.93	1.79
1	K	4025	MET	SD-CE	5.53	1.93	1.79
1	K	4145	MET	SD-CE	5.53	1.93	1.79
1	C	1027	MET	SD-CE	5.51	1.93	1.79
1	E	1649	MET	SD-CE	5.51	1.93	1.79
1	G	2441	MET	SD-CE	5.51	1.93	1.79
1	H	2837	MET	SD-CE	5.50	1.93	1.79
1	M	4886	LEU	CA-C	-5.50	1.45	1.53
1	F	2165	MET	SD-CE	5.50	1.93	1.79
1	L	4541	MET	SD-CE	5.50	1.93	1.79
1	M	4937	MET	SD-CE	5.50	1.93	1.79
1	B	631	MET	SD-CE	5.50	1.93	1.79
1	I	3353	MET	SD-CE	5.50	1.93	1.79
1	C	976	LEU	CA-C	-5.49	1.45	1.53
1	J	3698	LEU	CA-C	-5.48	1.45	1.53
1	J	3749	MET	SD-CE	5.48	1.93	1.79
1	B	580	LEU	CA-C	-5.48	1.45	1.53
1	F	2114	LEU	CA-C	-5.47	1.45	1.53
1	H	2906	LEU	CA-C	-5.46	1.45	1.53
1	E	1718	LEU	CA-C	-5.45	1.45	1.53
1	G	2510	LEU	CA-C	-5.44	1.45	1.53
1	K	4094	LEU	CA-C	-5.43	1.45	1.53
1	I	3302	LEU	CA-C	-5.42	1.45	1.53
1	L	4490	LEU	CA-C	-5.42	1.45	1.53
1	A	184	LEU	CA-C	-5.41	1.45	1.53
1	C	1001	MET	CG-SD	5.26	1.94	1.80
1	M	4911	MET	CG-SD	5.26	1.93	1.80
1	G	2511	ALA	CA-CB	-5.24	1.46	1.53
1	E	1719	ALA	N-CA	-5.24	1.39	1.45
1	L	4491	ALA	N-CA	-5.24	1.39	1.45
1	B	605	MET	CG-SD	5.23	1.93	1.80
1	F	2139	MET	CG-SD	5.23	1.93	1.80
1	G	2535	MET	CG-SD	5.23	1.93	1.80
1	I	3327	MET	CG-SD	5.22	1.93	1.80
1	J	3699	ALA	CA-CB	-5.22	1.46	1.53
1	A	185	ALA	N-CA	-5.21	1.39	1.45
1	K	4095	ALA	N-CA	-5.21	1.39	1.45
1	G	2511	ALA	N-CA	-5.21	1.39	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	K	4095	ALA	CA-CB	-5.21	1.46	1.53
1	J	3723	MET	CG-SD	5.21	1.93	1.80
1	E	1743	MET	CG-SD	5.20	1.93	1.80
1	L	4515	MET	CG-SD	5.20	1.93	1.80
1	J	3699	ALA	N-CA	-5.20	1.40	1.45
1	C	977	ALA	CA-CB	-5.20	1.46	1.53
1	A	209	MET	CG-SD	5.19	1.93	1.80
1	M	4887	ALA	CA-CB	-5.19	1.46	1.53
1	E	1719	ALA	CA-CB	-5.19	1.46	1.53
1	F	2115	ALA	N-CA	-5.19	1.40	1.45
1	H	2931	MET	CG-SD	5.19	1.93	1.80
1	H	2907	ALA	N-CA	-5.18	1.40	1.45
1	I	3303	ALA	N-CA	-5.18	1.40	1.45
1	K	4119	MET	CG-SD	5.18	1.93	1.80
1	H	2907	ALA	CA-CB	-5.18	1.46	1.53
1	A	185	ALA	CA-CB	-5.16	1.46	1.53
1	C	977	ALA	N-CA	-5.15	1.40	1.45
1	B	581	ALA	CA-CB	-5.14	1.46	1.53
1	F	2115	ALA	CA-CB	-5.14	1.46	1.53
1	M	4887	ALA	N-CA	-5.14	1.40	1.45
1	B	581	ALA	N-CA	-5.13	1.40	1.45
1	L	4491	ALA	CA-CB	-5.12	1.46	1.53
1	E	1757	MET	SD-CE	5.10	1.92	1.79
1	I	3341	MET	SD-CE	5.10	1.92	1.79
1	L	4529	MET	SD-CE	5.09	1.92	1.79
1	H	2735	MET	SD-CE	5.09	1.92	1.79
1	J	3737	MET	SD-CE	5.09	1.92	1.79
1	K	4133	MET	SD-CE	5.09	1.92	1.79
1	I	3303	ALA	CA-CB	-5.09	1.46	1.53
1	B	619	MET	SD-CE	5.09	1.92	1.79
1	K	3923	MET	SD-CE	5.09	1.92	1.79
1	F	2153	MET	SD-CE	5.08	1.92	1.79
1	I	3131	MET	SD-CE	5.07	1.92	1.79
1	M	4715	MET	SD-CE	5.07	1.92	1.79
1	M	4925	MET	SD-CE	5.06	1.92	1.79
1	H	2945	MET	SD-CE	5.06	1.92	1.79
1	A	223	MET	SD-CE	5.06	1.92	1.79
1	A	13	MET	SD-CE	5.05	1.92	1.79
1	B	409	MET	SD-CE	5.05	1.92	1.79
1	L	4319	MET	SD-CE	5.05	1.92	1.79
1	C	805	MET	SD-CE	5.05	1.92	1.79
1	E	1547	MET	SD-CE	5.04	1.92	1.79

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	C	1015	MET	SD-CE	5.04	1.92	1.79
1	G	2549	MET	SD-CE	5.04	1.92	1.79
1	F	1943	MET	SD-CE	5.04	1.92	1.79
1	E	1743	MET	SD-CE	5.03	1.92	1.79
1	H	2931	MET	SD-CE	5.03	1.92	1.79
1	J	3527	MET	SD-CE	5.02	1.92	1.79
1	A	209	MET	SD-CE	5.02	1.92	1.79
1	F	2139	MET	SD-CE	5.01	1.92	1.79
1	C	1001	MET	SD-CE	5.01	1.92	1.79
1	J	3723	MET	SD-CE	5.01	1.92	1.79
1	G	2339	MET	SD-CE	5.00	1.92	1.79

All (375) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	G	2511	ALA	CA-C-N	47.73	179.50	119.84
1	G	2511	ALA	C-N-CA	47.73	179.50	119.84
1	B	581	ALA	CA-C-N	47.72	179.49	119.84
1	B	581	ALA	C-N-CA	47.72	179.49	119.84
1	L	4491	ALA	CA-C-N	47.71	179.48	119.84
1	L	4491	ALA	C-N-CA	47.71	179.48	119.84
1	A	185	ALA	CA-C-N	47.71	179.48	119.84
1	A	185	ALA	C-N-CA	47.71	179.48	119.84
1	E	1719	ALA	CA-C-N	47.71	179.47	119.84
1	E	1719	ALA	C-N-CA	47.71	179.47	119.84
1	K	4095	ALA	CA-C-N	47.71	179.47	119.84
1	K	4095	ALA	C-N-CA	47.71	179.47	119.84
1	J	3699	ALA	CA-C-N	47.70	179.46	119.84
1	J	3699	ALA	C-N-CA	47.70	179.46	119.84
1	F	2115	ALA	CA-C-N	47.69	179.45	119.84
1	F	2115	ALA	C-N-CA	47.69	179.45	119.84
1	H	2907	ALA	CA-C-N	47.69	179.45	119.84
1	H	2907	ALA	C-N-CA	47.69	179.45	119.84
1	M	4887	ALA	CA-C-N	47.68	179.44	119.84
1	M	4887	ALA	C-N-CA	47.68	179.44	119.84
1	C	977	ALA	CA-C-N	47.67	179.43	119.84
1	C	977	ALA	C-N-CA	47.67	179.43	119.84
1	I	3303	ALA	CA-C-N	47.65	179.40	119.84
1	I	3303	ALA	C-N-CA	47.65	179.40	119.84
1	M	4887	ALA	C-N-CD	-12.28	74.64	125.00
1	I	3303	ALA	C-N-CD	-12.27	74.68	125.00
1	J	3699	ALA	C-N-CD	-12.27	74.69	125.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	581	ALA	C-N-CD	-12.27	74.70	125.00
1	C	977	ALA	C-N-CD	-12.27	74.69	125.00
1	E	1719	ALA	C-N-CD	-12.27	74.69	125.00
1	G	2511	ALA	C-N-CD	-12.27	74.69	125.00
1	H	2907	ALA	C-N-CD	-12.27	74.69	125.00
1	K	4095	ALA	C-N-CD	-12.27	74.70	125.00
1	F	2115	ALA	C-N-CD	-12.27	74.71	125.00
1	L	4491	ALA	C-N-CD	-12.27	74.71	125.00
1	A	185	ALA	C-N-CD	-12.26	74.73	125.00
1	F	2053	VAL	N-CA-C	10.23	121.10	110.36
1	B	519	VAL	N-CA-C	10.21	121.08	110.36
1	M	4825	VAL	N-CA-C	10.21	121.09	110.36
1	L	4429	VAL	N-CA-C	10.20	121.07	110.36
1	I	3241	VAL	N-CA-C	10.20	121.07	110.36
1	C	915	VAL	N-CA-C	10.19	121.06	110.36
1	H	2845	VAL	N-CA-C	10.19	121.06	110.36
1	G	2449	VAL	N-CA-C	10.18	121.05	110.36
1	J	3637	VAL	N-CA-C	10.17	121.04	110.36
1	E	1657	VAL	N-CA-C	10.16	121.03	110.36
1	K	4033	VAL	N-CA-C	10.16	121.03	110.36
1	A	123	VAL	N-CA-C	10.15	121.02	110.36
1	F	2004	THR	N-CA-C	-9.48	101.60	113.55
1	E	1608	THR	N-CA-C	-9.48	101.61	113.55
1	B	470	THR	N-CA-C	-9.47	101.62	113.55
1	K	3984	THR	N-CA-C	-9.47	101.62	113.55
1	H	2796	THR	N-CA-C	-9.46	101.64	113.55
1	A	74	THR	N-CA-C	-9.45	101.64	113.55
1	L	4380	THR	N-CA-C	-9.45	101.64	113.55
1	I	3192	THR	N-CA-C	-9.45	101.65	113.55
1	J	3588	THR	N-CA-C	-9.44	101.66	113.55
1	C	866	THR	N-CA-C	-9.43	101.67	113.55
1	M	4776	THR	N-CA-C	-9.41	101.69	113.55
1	G	2400	THR	N-CA-C	-9.40	101.70	113.55
2	D	1418	ASN	CA-CB-CG	-9.38	103.22	112.60
1	E	1719	ALA	N-CA-C	8.18	119.00	109.60
1	K	4095	ALA	N-CA-C	8.18	119.00	109.60
1	M	4887	ALA	N-CA-C	8.18	119.00	109.60
1	A	185	ALA	N-CA-C	8.17	119.00	109.60
1	G	2511	ALA	N-CA-C	8.15	118.98	109.60
1	H	2907	ALA	N-CA-C	8.15	118.98	109.60
1	C	977	ALA	N-CA-C	8.14	118.96	109.60
1	F	2115	ALA	N-CA-C	8.13	118.95	109.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	J	3699	ALA	N-CA-C	8.12	118.94	109.60
1	L	4491	ALA	N-CA-C	8.11	118.93	109.60
1	B	581	ALA	N-CA-C	8.11	118.93	109.60
1	I	3303	ALA	N-CA-C	8.11	118.92	109.60
2	D	1327	LEU	CA-CB-CG	7.67	143.15	116.30
1	C	929	GLY	N-CA-C	7.33	121.30	110.60
1	E	1671	GLY	N-CA-C	7.30	121.25	110.60
1	M	4839	GLY	N-CA-C	7.30	121.25	110.60
1	A	137	GLY	N-CA-C	7.28	121.23	110.60
1	B	533	GLY	N-CA-C	7.28	121.23	110.60
1	K	4047	GLY	N-CA-C	7.28	121.23	110.60
1	G	2463	GLY	N-CA-C	7.27	121.22	110.60
1	J	3651	GLY	N-CA-C	7.27	121.21	110.60
1	H	2859	GLY	N-CA-C	7.25	121.19	110.60
1	L	4443	GLY	N-CA-C	7.25	121.19	110.60
1	I	3255	GLY	N-CA-C	7.24	121.16	110.60
1	F	2067	GLY	N-CA-C	7.23	121.16	110.60
1	J	3605	VAL	N-CA-C	-7.13	106.55	113.53
1	G	2417	VAL	N-CA-C	-7.11	106.56	113.53
1	K	4001	VAL	N-CA-C	-7.11	106.56	113.53
1	H	2813	VAL	N-CA-C	-7.08	106.59	113.53
1	A	91	VAL	N-CA-C	-7.08	106.59	113.53
1	C	883	VAL	N-CA-C	-7.08	106.59	113.53
1	I	3209	VAL	N-CA-C	-7.08	106.59	113.53
1	L	4397	VAL	N-CA-C	-7.07	106.60	113.53
1	E	1625	VAL	N-CA-C	-7.07	106.61	113.53
1	B	487	VAL	N-CA-C	-7.06	106.61	113.53
1	M	4793	VAL	N-CA-C	-7.05	106.62	113.53
1	F	2021	VAL	N-CA-C	-7.04	106.63	113.53
1	K	4056	SER	N-CA-C	6.88	120.16	111.69
1	A	146	SER	N-CA-C	6.88	120.15	111.69
1	I	3264	SER	N-CA-C	6.88	120.15	111.69
1	L	4452	SER	N-CA-C	6.88	120.15	111.69
1	H	2868	SER	N-CA-C	6.88	120.15	111.69
1	J	3660	SER	N-CA-C	6.87	120.14	111.69
1	F	2076	SER	N-CA-C	6.87	120.14	111.69
1	G	2472	SER	N-CA-C	6.86	120.13	111.69
1	E	1680	SER	N-CA-C	6.86	120.13	111.69
1	M	4848	SER	N-CA-C	6.86	120.13	111.69
1	C	938	SER	N-CA-C	6.85	120.12	111.69
1	B	542	SER	N-CA-C	6.85	120.11	111.69
1	J	3646	ASN	CA-C-N	6.50	127.97	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	J	3646	ASN	C-N-CA	6.50	127.97	119.84
1	B	528	ASN	CA-C-N	6.50	127.97	119.84
1	B	528	ASN	C-N-CA	6.50	127.97	119.84
1	K	4042	ASN	CA-C-N	6.50	127.96	119.84
1	K	4042	ASN	C-N-CA	6.50	127.96	119.84
1	M	4834	ASN	CA-C-N	6.50	127.96	119.84
1	M	4834	ASN	C-N-CA	6.50	127.96	119.84
1	I	3250	ASN	CA-C-N	6.50	127.96	119.84
1	I	3250	ASN	C-N-CA	6.50	127.96	119.84
1	E	1666	ASN	CA-C-N	6.49	127.95	119.84
1	E	1666	ASN	C-N-CA	6.49	127.95	119.84
1	F	2062	ASN	CA-C-N	6.48	127.94	119.84
1	F	2062	ASN	C-N-CA	6.48	127.94	119.84
1	A	132	ASN	CA-C-N	6.47	127.93	119.84
1	A	132	ASN	C-N-CA	6.47	127.93	119.84
1	H	2854	ASN	CA-C-N	6.46	127.92	119.84
1	H	2854	ASN	C-N-CA	6.46	127.92	119.84
1	G	2458	ASN	CA-C-N	6.46	127.91	119.84
1	G	2458	ASN	C-N-CA	6.46	127.91	119.84
1	M	4888	PRO	N-CA-C	-6.46	99.17	112.47
1	C	924	ASN	CA-C-N	6.45	127.90	119.84
1	C	924	ASN	C-N-CA	6.45	127.90	119.84
1	H	2908	PRO	N-CA-C	-6.45	99.19	112.47
1	K	4096	PRO	N-CA-C	-6.45	99.19	112.47
1	G	2512	PRO	N-CA-C	-6.44	99.20	112.47
1	J	3700	PRO	N-CA-C	-6.44	99.20	112.47
1	E	1720	PRO	N-CA-C	-6.43	99.22	112.47
1	I	3304	PRO	N-CA-C	-6.43	99.21	112.47
1	L	4492	PRO	N-CA-C	-6.43	99.22	112.47
1	A	186	PRO	N-CA-C	-6.43	99.22	112.47
1	B	582	PRO	N-CA-C	-6.43	99.22	112.47
1	F	2116	PRO	N-CA-C	-6.43	99.22	112.47
1	L	4438	ASN	CA-C-N	6.43	127.88	119.84
1	L	4438	ASN	C-N-CA	6.43	127.88	119.84
1	C	978	PRO	N-CA-C	-6.42	99.23	112.47
1	M	4973	LYS	CA-C-N	6.36	126.31	119.76
1	M	4973	LYS	C-N-CA	6.36	126.31	119.76
1	G	2597	LYS	CA-C-N	6.33	126.28	119.76
1	G	2597	LYS	C-N-CA	6.33	126.28	119.76
1	J	3785	LYS	CA-C-N	6.33	126.28	119.76
1	J	3785	LYS	C-N-CA	6.33	126.28	119.76
1	A	271	LYS	CA-C-N	6.33	126.28	119.76

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	271	LYS	C-N-CA	6.33	126.28	119.76
1	K	4181	LYS	CA-C-N	6.33	126.28	119.76
1	K	4181	LYS	C-N-CA	6.33	126.28	119.76
1	C	1063	LYS	CA-C-N	6.32	126.27	119.76
1	C	1063	LYS	C-N-CA	6.32	126.27	119.76
1	E	1805	LYS	CA-C-N	6.32	126.27	119.76
1	E	1805	LYS	C-N-CA	6.32	126.27	119.76
1	I	3389	LYS	CA-C-N	6.30	126.25	119.76
1	I	3389	LYS	C-N-CA	6.30	126.25	119.76
1	L	4577	LYS	CA-C-N	6.30	126.25	119.76
1	L	4577	LYS	C-N-CA	6.30	126.25	119.76
1	F	2201	LYS	CA-C-N	6.30	126.25	119.76
1	F	2201	LYS	C-N-CA	6.30	126.25	119.76
1	H	2993	LYS	CA-C-N	6.28	126.22	119.76
1	H	2993	LYS	C-N-CA	6.28	126.22	119.76
1	B	667	LYS	CA-C-N	6.27	126.22	119.76
1	B	667	LYS	C-N-CA	6.27	126.22	119.76
1	B	490	ASP	CA-C-N	6.23	126.70	119.47
1	B	490	ASP	C-N-CA	6.23	126.70	119.47
1	F	2024	ASP	CA-C-N	6.23	126.69	119.47
1	F	2024	ASP	C-N-CA	6.23	126.69	119.47
1	I	3212	ASP	CA-C-N	6.22	126.68	119.47
1	I	3212	ASP	C-N-CA	6.22	126.68	119.47
1	L	4400	ASP	CA-C-N	6.21	126.67	119.47
1	L	4400	ASP	C-N-CA	6.21	126.67	119.47
1	G	2512	PRO	CB-CA-C	6.20	121.79	111.56
1	I	3304	PRO	CB-CA-C	6.20	121.79	111.56
1	J	3700	PRO	CB-CA-C	6.19	121.77	111.56
1	M	4888	PRO	CB-CA-C	6.19	121.77	111.56
1	C	978	PRO	CB-CA-C	6.18	121.76	111.56
1	H	2816	ASP	CA-C-N	6.18	126.64	119.47
1	H	2816	ASP	C-N-CA	6.18	126.64	119.47
1	H	2908	PRO	CB-CA-C	6.18	121.76	111.56
1	B	582	PRO	CB-CA-C	6.18	121.75	111.56
1	E	1720	PRO	CB-CA-C	6.18	121.76	111.56
1	E	1628	ASP	CA-C-N	6.18	126.64	119.47
1	E	1628	ASP	C-N-CA	6.18	126.64	119.47
1	F	2116	PRO	CB-CA-C	6.18	121.75	111.56
1	K	4096	PRO	CB-CA-C	6.17	121.75	111.56
1	A	186	PRO	CB-CA-C	6.17	121.74	111.56
1	E	1881	ALA	N-CA-C	-6.17	104.64	111.36
1	L	4492	PRO	CB-CA-C	6.16	121.73	111.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	347	ALA	N-CA-C	-6.16	104.65	111.36
1	A	94	ASP	CA-C-N	6.15	126.61	119.47
1	A	94	ASP	C-N-CA	6.15	126.61	119.47
1	B	743	ALA	N-CA-C	-6.15	104.65	111.36
1	L	4653	ALA	N-CA-C	-6.15	104.66	111.36
1	H	3069	ALA	N-CA-C	-6.14	104.66	111.36
1	I	3465	ALA	N-CA-C	-6.14	104.66	111.36
1	J	3608	ASP	CA-C-N	6.14	126.59	119.47
1	J	3608	ASP	C-N-CA	6.14	126.59	119.47
1	K	4004	ASP	CA-C-N	6.14	126.59	119.47
1	K	4004	ASP	C-N-CA	6.14	126.59	119.47
1	C	886	ASP	CA-C-N	6.14	126.59	119.47
1	C	886	ASP	C-N-CA	6.14	126.59	119.47
1	C	1139	ALA	N-CA-C	-6.13	104.67	111.36
1	J	3861	ALA	N-CA-C	-6.13	104.68	111.36
1	K	4257	ALA	N-CA-C	-6.13	104.68	111.36
1	G	2420	ASP	CA-C-N	6.12	126.58	119.47
1	G	2420	ASP	C-N-CA	6.12	126.58	119.47
1	M	4796	ASP	CA-C-N	6.12	126.57	119.47
1	M	4796	ASP	C-N-CA	6.12	126.57	119.47
1	G	2673	ALA	N-CA-C	-6.12	104.69	111.36
1	M	5049	ALA	N-CA-C	-6.10	104.71	111.36
1	F	2277	ALA	N-CA-C	-6.10	104.71	111.36
1	M	5065	GLN	N-CA-C	5.99	118.55	109.63
1	B	759	GLN	N-CA-C	5.98	118.54	109.63
1	H	3085	GLN	N-CA-C	5.98	118.54	109.63
1	K	4273	GLN	N-CA-C	5.98	118.53	109.63
1	F	2293	GLN	N-CA-C	5.97	118.53	109.63
1	J	3877	GLN	N-CA-C	5.97	118.53	109.63
1	G	2689	GLN	N-CA-C	5.97	118.52	109.63
1	I	3481	GLN	N-CA-C	5.97	118.52	109.63
1	C	1155	GLN	N-CA-C	5.96	118.51	109.63
1	A	363	GLN	N-CA-C	5.94	118.48	109.63
1	L	4669	GLN	N-CA-C	5.94	118.48	109.63
1	E	1897	GLN	N-CA-C	5.93	118.46	109.63
1	F	2120	ASN	N-CA-C	5.92	119.23	110.46
1	E	1754	LEU	N-CA-C	-5.92	105.82	113.16
1	H	2942	LEU	N-CA-C	-5.91	105.83	113.16
1	K	4130	LEU	N-CA-C	-5.89	105.85	113.16
1	A	220	LEU	N-CA-C	-5.89	105.85	113.16
1	L	4496	ASN	N-CA-C	5.89	119.18	110.46
1	M	4892	ASN	N-CA-C	5.89	119.17	110.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	190	ASN	N-CA-C	5.88	119.17	110.46
1	G	2516	ASN	N-CA-C	5.88	119.17	110.46
1	B	586	ASN	N-CA-C	5.88	119.17	110.46
1	J	3704	ASN	N-CA-C	5.88	119.17	110.46
1	C	1046	ALA	N-CA-C	-5.88	104.95	111.36
1	C	979	ASP	N-CA-C	5.87	119.99	112.12
1	I	3308	ASN	N-CA-C	5.87	119.15	110.46
1	B	616	LEU	N-CA-C	-5.87	105.88	113.16
1	E	1724	ASN	N-CA-C	5.87	119.15	110.46
1	L	4560	ALA	N-CA-C	-5.87	104.96	111.36
1	K	4100	ASN	N-CA-C	5.86	119.14	110.46
1	M	4956	ALA	N-CA-C	-5.86	104.97	111.36
1	H	2912	ASN	N-CA-C	5.86	119.13	110.46
1	C	982	ASN	N-CA-C	5.86	119.13	110.46
2	D	1329	ASP	CA-CB-CG	-5.86	106.74	112.60
1	E	1788	ALA	N-CA-C	-5.86	104.98	111.36
1	F	2150	LEU	N-CA-C	-5.85	105.90	113.16
1	F	2184	ALA	N-CA-C	-5.85	104.98	111.36
1	G	2580	ALA	N-CA-C	-5.85	104.98	111.36
1	I	3372	ALA	N-CA-C	-5.85	104.98	111.36
1	F	2117	ASP	N-CA-C	5.85	119.95	112.12
1	L	4493	ASP	N-CA-C	5.85	119.96	112.12
1	J	3701	ASP	N-CA-C	5.84	119.95	112.12
1	A	187	ASP	N-CA-C	5.84	119.95	112.12
1	H	2909	ASP	N-CA-C	5.84	119.95	112.12
1	I	3338	LEU	N-CA-C	-5.84	105.92	113.16
1	C	1012	LEU	N-CA-C	-5.84	105.92	113.16
1	B	583	ASP	N-CA-C	5.84	119.94	112.12
1	G	2546	LEU	N-CA-C	-5.84	105.92	113.16
1	G	2513	ASP	N-CA-C	5.83	119.94	112.12
1	I	3305	ASP	N-CA-C	5.83	119.93	112.12
1	J	3768	ALA	N-CA-C	-5.83	105.00	111.36
1	M	4922	LEU	N-CA-C	-5.83	105.93	113.16
1	M	4889	ASP	N-CA-C	5.83	119.93	112.12
1	E	1721	ASP	N-CA-C	5.82	119.92	112.12
1	B	650	ALA	N-CA-C	-5.82	105.02	111.36
1	K	4097	ASP	N-CA-C	5.82	119.92	112.12
1	J	3734	LEU	N-CA-C	-5.82	105.95	113.16
1	L	4526	LEU	N-CA-C	-5.82	105.95	113.16
1	K	4164	ALA	N-CA-C	-5.79	105.05	111.36
1	K	4121	GLU	N-CA-C	5.78	120.02	113.15
1	A	254	ALA	N-CA-C	-5.77	105.07	111.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	H	2976	ALA	N-CA-C	-5.76	105.08	111.36
1	F	2141	GLU	N-CA-C	5.75	119.99	113.15
1	B	607	GLU	N-CA-C	5.74	119.98	113.15
1	H	2933	GLU	N-CA-C	5.74	119.98	113.15
1	A	211	GLU	N-CA-C	5.73	119.97	113.15
1	I	3329	GLU	N-CA-C	5.73	119.97	113.15
1	E	1810	PHE	N-CA-C	-5.72	104.24	111.11
1	L	4517	GLU	N-CA-C	5.72	119.96	113.15
1	E	1745	GLU	N-CA-C	5.72	119.96	113.15
1	G	2537	GLU	N-CA-C	5.72	119.96	113.15
1	C	1068	PHE	N-CA-C	-5.72	104.25	111.11
1	B	672	PHE	N-CA-C	-5.72	104.25	111.11
1	H	2998	PHE	N-CA-C	-5.71	104.26	111.11
1	G	2602	PHE	N-CA-C	-5.71	104.26	111.11
1	A	276	PHE	N-CA-C	-5.70	104.27	111.11
1	M	4978	PHE	N-CA-C	-5.70	104.27	111.11
1	J	3725	GLU	N-CA-C	5.69	119.92	113.15
1	K	4186	PHE	N-CA-C	-5.69	104.28	111.11
1	C	1003	GLU	N-CA-C	5.69	119.92	113.15
1	F	2206	PHE	N-CA-C	-5.69	104.28	111.11
1	J	3790	PHE	N-CA-C	-5.69	104.29	111.11
1	M	4913	GLU	N-CA-C	5.68	119.91	113.15
1	I	3394	PHE	N-CA-C	-5.68	104.30	111.11
1	L	4582	PHE	N-CA-C	-5.67	104.30	111.11
1	A	341	LYS	N-CA-C	5.46	117.76	109.63
1	I	3187	VAL	CB-CA-C	-5.45	105.37	111.80
1	G	2667	LYS	N-CA-C	5.44	117.74	109.63
1	I	3459	LYS	N-CA-C	5.44	117.73	109.63
1	J	3855	LYS	N-CA-C	5.44	117.73	109.63
1	F	1999	VAL	CB-CA-C	-5.44	105.39	111.80
1	M	5043	LYS	N-CA-C	5.44	117.73	109.63
1	H	3063	LYS	N-CA-C	5.43	117.73	109.63
1	B	465	VAL	CB-CA-C	-5.43	105.39	111.80
1	E	1875	LYS	N-CA-C	5.43	117.72	109.63
1	A	69	VAL	CB-CA-C	-5.42	105.40	111.80
1	F	2271	LYS	N-CA-C	5.42	117.71	109.63
1	J	3583	VAL	CB-CA-C	-5.42	105.40	111.80
1	K	3979	VAL	CB-CA-C	-5.42	105.40	111.80
1	C	1133	LYS	N-CA-C	5.42	117.70	109.63
1	E	1603	VAL	CB-CA-C	-5.42	105.41	111.80
1	B	737	LYS	N-CA-C	5.42	117.70	109.63
1	K	4251	LYS	N-CA-C	5.41	117.70	109.63

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	L	4647	LYS	N-CA-C	5.41	117.69	109.63
1	G	2395	VAL	CB-CA-C	-5.41	105.42	111.80
1	L	4375	VAL	CB-CA-C	-5.40	105.42	111.80
1	H	2791	VAL	CB-CA-C	-5.40	105.43	111.80
1	H	3083	ASN	N-CA-C	-5.39	107.07	113.38
1	M	5063	ASN	N-CA-C	-5.39	107.07	113.38
1	A	361	ASN	N-CA-C	-5.38	107.08	113.38
1	F	2291	ASN	N-CA-C	-5.38	107.08	113.38
1	L	4667	ASN	N-CA-C	-5.38	107.08	113.38
1	M	4771	VAL	CB-CA-C	-5.38	105.45	111.80
1	I	3479	ASN	N-CA-C	-5.38	107.09	113.38
1	C	1153	ASN	N-CA-C	-5.37	107.10	113.38
1	C	861	VAL	CB-CA-C	-5.37	105.47	111.80
1	B	757	ASN	N-CA-C	-5.36	107.11	113.38
1	G	2687	ASN	N-CA-C	-5.34	107.13	113.38
1	E	1895	ASN	N-CA-C	-5.34	107.14	113.38
1	J	3875	ASN	N-CA-C	-5.34	107.14	113.38
1	K	4271	ASN	N-CA-C	-5.33	107.15	113.38
1	H	2740	SER	N-CA-C	-5.30	101.92	110.14
1	K	3928	SER	N-CA-C	-5.30	101.92	110.14
1	E	1552	SER	N-CA-C	-5.29	101.95	110.14
1	A	18	SER	N-CA-C	-5.28	101.96	110.14
1	B	414	SER	N-CA-C	-5.28	101.96	110.14
1	H	2778	ILE	CB-CA-C	5.27	115.82	110.65
1	C	848	ILE	CB-CA-C	5.26	115.81	110.65
1	L	4324	SER	N-CA-C	-5.26	101.98	110.14
1	A	56	ILE	CB-CA-C	5.26	115.80	110.65
1	M	4758	ILE	CB-CA-C	5.25	115.80	110.65
1	I	3136	SER	N-CA-C	-5.25	102.00	110.14
1	E	1590	ILE	CB-CA-C	5.25	115.79	110.65
1	J	3532	SER	N-CA-C	-5.24	102.02	110.14
1	K	3966	ILE	CB-CA-C	5.24	115.78	110.65
1	F	1948	SER	N-CA-C	-5.23	102.04	110.14
1	C	810	SER	N-CA-C	-5.22	102.04	110.14
1	G	2382	ILE	CB-CA-C	5.21	115.76	110.65
1	G	2344	SER	N-CA-C	-5.20	102.08	110.14
1	M	4720	SER	N-CA-C	-5.20	102.08	110.14
1	L	4362	ILE	CB-CA-C	5.20	115.74	110.65
1	J	3570	ILE	CB-CA-C	5.18	115.73	110.65
1	F	1986	ILE	CB-CA-C	5.17	115.72	110.65
1	I	3174	ILE	CB-CA-C	5.17	115.72	110.65
1	B	452	ILE	CB-CA-C	5.17	115.71	110.65

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	E	1738	ASN	N-CA-C	5.16	116.59	111.07
1	F	2134	ASN	N-CA-C	5.15	116.58	111.07
1	H	2926	ASN	N-CA-C	5.12	116.55	111.07
1	K	4114	ASN	N-CA-C	5.12	116.55	111.07
1	M	4906	ASN	N-CA-C	5.11	116.54	111.07
1	A	204	ASN	N-CA-C	5.10	116.53	111.07
1	C	996	ASN	N-CA-C	5.10	116.53	111.07
1	L	4510	ASN	N-CA-C	5.09	116.51	111.07
1	J	3718	ASN	N-CA-C	5.09	116.51	111.07
1	B	600	ASN	N-CA-C	5.08	116.50	111.07
1	G	2530	ASN	N-CA-C	5.07	116.49	111.07
1	I	3322	ASN	N-CA-C	5.06	116.48	111.07

There are no chirality outliers.

There are no planarity outliers.

5.2 Too-close contacts

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	2918	0	2997	629	0
1	B	2918	0	2998	458	0
1	C	2918	0	2991	693	0
1	E	2918	0	2984	763	0
1	F	2918	0	2975	1480	0
1	G	2918	0	2987	701	0
1	H	2918	0	2990	627	0
1	I	2918	0	2975	1355	0
1	J	2918	0	2996	511	0
1	K	2918	0	2991	750	0
1	L	2918	0	2994	545	0
1	M	2918	0	2989	733	0
2	D	2714	0	2414	1600	0
All	All	37730	0	38281	7125	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 94.

All (7125) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:1325:PHE:CD2	1:G:2357:ARG:HB2	1.18	1.68
2:D:1463:LEU:CB	1:K:3942:MET:HE3	1.21	1.66
2:D:1411:GLY:CA	1:L:4345:PHE:H	1.04	1.65
1:C:1036:PHE:CD2	1:E:1832:ARG:HA	1.25	1.64
2:D:1470:GLY:HA2	1:M:4738:PHE:CB	1.20	1.64
1:C:1088:LEU:HD22	1:E:1834:GLY:CA	1.17	1.64
2:D:1340:LYS:HB2	1:F:1970:PHE:CD2	1.30	1.64
1:G:2624:ARG:HB3	1:M:4999:LEU:CG	1.19	1.63
1:G:2562:LYS:HB3	1:M:4937:MET:CE	1.28	1.62
1:G:2624:ARG:CA	1:M:4999:LEU:CD2	1.76	1.62
1:C:1023:LEU:HD13	1:E:1771:VAL:CA	1.28	1.62
2:D:1214:ASN:HB2	1:J:3548:ARG:CG	1.25	1.61
2:D:1468:SER:HB2	1:K:3949:PHE:CZ	1.17	1.61
2:D:1523:ASP:HB3	1:J:3546:MET:CE	1.27	1.61
1:C:1023:LEU:CD2	1:E:1771:VAL:HG13	1.21	1.60
2:D:1335:VAL:CG1	1:F:1966:PHE:HZ	1.06	1.60
1:C:1025:LYS:HG2	1:E:1795:ALA:CB	1.27	1.60
2:D:1425:GLN:CA	1:K:3946:PHE:CE1	1.83	1.59
1:F:2153:MET:SD	1:I:3354:LYS:HB2	1.40	1.59
1:H:3019:LEU:CD2	1:K:4211:LYS:HE3	1.24	1.59
1:A:31:ARG:CD	2:D:1491:THR:HG22	1.31	1.58
1:A:31:ARG:HD2	2:D:1491:THR:CG2	1.15	1.58
2:D:1217:VAL:CG2	1:J:3548:ARG:HH21	1.05	1.58
1:C:1027:MET:HE2	1:E:1771:VAL:CG1	1.27	1.57
1:C:1025:LYS:CA	1:E:1795:ALA:HB1	1.24	1.57
1:F:2193:ASP:CB	1:I:3383:ILE:HD13	1.26	1.57
1:F:2228:ARG:CD	1:I:3397:LEU:HB3	1.09	1.57
1:C:1053:ALA:CB	1:E:1773:ALA:HB3	1.32	1.56
1:B:430:ARG:NH2	2:D:1192:TYR:CE2	1.71	1.56
1:C:1057:ILE:HD13	1:E:1833:ASP:CB	1.17	1.56
1:A:263:ASP:HA	1:L:4604:ARG:CG	1.21	1.55
1:F:2195:ILE:HG23	1:I:3414:LEU:CD1	1.30	1.55
2:D:1335:VAL:CG1	1:F:1966:PHE:CZ	1.89	1.55
2:D:1260:TRP:CZ2	1:I:3155:GLN:HG2	1.41	1.54
1:C:1023:LEU:HD11	1:E:1770:LYS:C	1.15	1.54
1:F:2228:ARG:HB2	1:I:3397:LEU:CD1	1.34	1.54
1:F:2228:ARG:HD3	1:I:3397:LEU:CB	1.31	1.54
1:G:2562:LYS:CB	1:M:4937:MET:CE	1.85	1.53
2:D:1506:ILE:CD1	1:K:3941:ARG:HH12	1.20	1.53
1:F:2196:THR:CG2	1:I:3372:ALA:C	1.79	1.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:1444:ALA:HB3	1:M:4739:GLN:CA	1.07	1.52
1:F:2195:ILE:CG2	1:I:3414:LEU:HD13	1.38	1.52
1:A:263:ASP:CA	1:L:4604:ARG:HG2	1.34	1.52
2:D:1391:THR:CB	1:H:2755:PRO:CG	1.78	1.52
1:F:2227:LEU:HD12	1:I:3372:ALA:CB	1.06	1.52
2:D:1437:SER:N	1:H:2761:PHE:CD1	1.77	1.51
2:D:1463:LEU:HD23	1:K:3942:MET:CE	1.38	1.51
1:F:2196:THR:HG21	1:I:3372:ALA:C	1.30	1.51
1:F:2178:VAL:C	1:I:3358:GLN:HG2	1.27	1.51
1:G:2624:ARG:CD	1:M:4941:ALA:HB3	1.08	1.51
1:F:2213:VAL:HG22	1:I:3416:ARG:NH2	1.23	1.51
1:H:3019:LEU:CD2	1:K:4211:LYS:CE	1.85	1.51
1:F:2178:VAL:CG1	1:I:3358:GLN:HA	1.05	1.50
2:D:1451:ALA:HB3	1:K:3942:MET:CG	1.41	1.50
2:D:1523:ASP:HA	1:J:3546:MET:CG	1.35	1.50
1:G:2561:MET:CE	1:M:4938:LYS:CE	1.88	1.50
2:D:1321:ASN:HA	1:G:2361:ASN:CB	1.42	1.49
2:D:1463:LEU:CD2	1:K:3942:MET:HE1	1.40	1.49
1:F:2178:VAL:CG1	1:I:3345:LEU:CD1	1.85	1.49
2:D:1247:GLN:HB3	1:I:3153:ASN:CA	1.37	1.49
2:D:1391:THR:CB	1:H:2755:PRO:HG2	1.27	1.49
2:D:1398:ALA:H	1:H:2753:ARG:CG	1.23	1.49
1:F:2178:VAL:CG1	1:I:3345:LEU:HD13	1.03	1.49
2:D:1389:LYS:CE	1:F:1960:PRO:HA	1.42	1.48
2:D:1272:ASP:CB	1:G:2358:MET:CG	1.86	1.48
2:D:1447:PHE:CE1	1:K:3946:PHE:HB2	1.45	1.48
1:F:2175:VAL:CG1	1:I:3382:VAL:HG22	1.38	1.48
1:G:2561:MET:CE	1:M:4938:LYS:HE3	1.42	1.48
1:H:2956:ALA:CB	1:K:4145:MET:N	1.74	1.48
2:D:1365:GLY:C	1:F:1970:PHE:HB3	1.12	1.48
2:D:1463:LEU:HB3	1:K:3942:MET:CE	1.43	1.48
1:C:1023:LEU:HD11	1:E:1771:VAL:N	1.16	1.47
2:D:1260:TRP:CH2	1:I:3154:PHE:CD1	2.02	1.47
2:D:1523:ASP:CA	1:J:3546:MET:HG3	1.42	1.47
1:C:1023:LEU:CD1	1:E:1771:VAL:N	1.77	1.47
2:D:1217:VAL:CG2	1:J:3548:ARG:NH2	1.78	1.47
1:F:2151:GLY:CA	1:I:3356:ASP:HB2	1.06	1.47
1:C:1023:LEU:HD22	1:E:1771:VAL:CG1	1.44	1.47
1:C:1025:LYS:CG	1:E:1795:ALA:CB	1.88	1.47
1:C:1025:LYS:CB	1:E:1795:ALA:HB1	1.43	1.47
1:C:1088:LEU:CD2	1:E:1834:GLY:HA3	1.40	1.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1023:LEU:CD1	1:E:1770:LYS:C	1.87	1.46
1:F:2185:ALA:HB2	1:I:3357:ALA:C	1.37	1.46
1:F:2224:LEU:HD23	1:I:3419:LYS:CB	1.38	1.46
1:F:2177:GLN:CB	1:I:3350:ALA:HB1	1.44	1.45
1:F:2210:ARG:CA	1:I:3416:ARG:CZ	1.93	1.45
2:D:1398:ALA:N	1:H:2753:ARG:HG3	1.13	1.45
2:D:1437:SER:N	1:H:2761:PHE:HD1	0.95	1.45
2:D:1469:LYS:C	1:M:4738:PHE:CG	1.95	1.45
1:C:1057:ILE:CD1	1:E:1833:ASP:HB2	0.98	1.45
1:F:2178:VAL:HG12	1:I:3345:LEU:CD1	1.41	1.45
2:D:1309:MET:CE	1:F:1967:GLN:HG3	1.43	1.45
2:D:1389:LYS:HZ3	1:F:1961:ARG:N	1.15	1.45
1:F:2210:ARG:C	1:I:3416:ARG:NH2	1.72	1.45
1:C:1023:LEU:HA	1:E:1778:PHE:CZ	1.52	1.45
2:D:1315:GLY:HA2	1:E:1570:PHE:CZ	1.51	1.44
1:F:2193:ASP:CG	1:I:3361:ALA:HB3	1.37	1.44
1:H:3020:ARG:C	1:K:4211:LYS:HG2	1.41	1.44
1:F:2210:ARG:CA	1:I:3416:ARG:NH1	1.81	1.44
1:A:297:LEU:HA	1:L:4607:LYS:CG	1.07	1.44
2:D:1506:ILE:HD12	1:K:3941:ARG:NH1	1.12	1.44
1:F:2224:LEU:HD13	1:I:3414:LEU:CA	1.47	1.44
1:A:31:ARG:HG2	2:D:1492:TYR:C	1.40	1.44
2:D:1468:SER:CB	1:K:3949:PHE:CE1	1.89	1.44
1:F:2210:ARG:HA	1:I:3416:ARG:CZ	1.47	1.44
1:F:2224:LEU:CD1	1:I:3414:LEU:O	1.66	1.44
2:D:1448:GLU:N	1:K:3947:GLN:N	1.60	1.43
1:F:2177:GLN:HB3	1:I:3350:ALA:CB	1.44	1.43
2:D:1340:LYS:HB2	1:F:1970:PHE:CG	1.28	1.43
1:H:3019:LEU:HD23	1:K:4211:LYS:CE	1.41	1.43
2:D:1506:ILE:CD1	1:K:3941:ARG:NH1	1.78	1.43
1:F:2176:SER:CB	1:I:3353:MET:HE3	1.46	1.43
2:D:1391:THR:OG1	1:H:2755:PRO:CB	1.65	1.43
1:F:2228:ARG:CB	1:I:3397:LEU:HD13	1.46	1.43
1:F:2231:LYS:NZ	1:I:3400:GLN:CB	1.78	1.43
1:C:1023:LEU:CG	1:E:1771:VAL:HG13	1.46	1.42
2:D:1272:ASP:HB3	1:G:2358:MET:CG	0.98	1.42
2:D:1276:PHE:CB	1:G:2362:PHE:CD1	1.89	1.42
1:F:2210:ARG:C	1:I:3416:ARG:HH22	1.26	1.42
1:F:2227:LEU:CD1	1:I:3372:ALA:CB	1.94	1.42
1:F:2230:GLY:N	1:I:3401:VAL:HG11	1.25	1.42
1:A:33:PRO:CG	2:D:1204:LYS:HB2	1.47	1.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1036:PHE:HD2	1:E:1832:ARG:CA	1.32	1.42
2:D:1244:TRP:HH2	1:I:3150:MET:N	1.18	1.42
2:D:1523:ASP:CB	1:J:3548:ARG:HD2	1.34	1.42
1:F:2178:VAL:C	1:I:3358:GLN:CG	1.79	1.42
1:F:2178:VAL:N	1:I:3345:LEU:HD22	1.31	1.42
1:G:2624:ARG:HD2	1:M:4941:ALA:CB	1.47	1.42
1:C:1057:ILE:CD1	1:E:1833:ASP:CB	1.79	1.41
1:C:1093:LYS:CG	1:E:1836:GLN:NE2	1.79	1.41
1:G:2624:ARG:CG	1:M:4999:LEU:HD22	1.49	1.41
1:C:1023:LEU:O	1:E:1778:PHE:CE2	1.73	1.41
2:D:1440:TRP:CZ2	1:H:2760:GLN:NE2	1.88	1.41
2:D:1260:TRP:CD1	1:I:3156:GLN:CB	1.94	1.41
2:D:1385:ILE:HG22	1:L:4341:ASN:ND2	1.16	1.41
1:F:2224:LEU:HD13	1:I:3414:LEU:C	1.43	1.41
2:D:1405:ARG:NH1	1:F:1962:MET:HE2	1.28	1.41
2:D:1451:ALA:C	1:K:3943:PRO:HA	1.29	1.40
1:A:29:THR:HG23	2:D:1494:PHE:CZ	1.55	1.40
2:D:1247:GLN:CB	1:I:3153:ASN:HA	0.95	1.40
2:D:1391:THR:C	1:H:2755:PRO:HD3	1.45	1.40
1:F:2191:ALA:HB3	1:I:3344:GLU:C	1.45	1.40
1:C:1089:LEU:HD23	1:E:1836:GLN:CA	1.47	1.40
2:D:1272:ASP:CB	1:G:2358:MET:HG3	1.48	1.40
2:D:1425:GLN:HA	1:K:3946:PHE:CE1	1.46	1.40
2:D:1468:SER:CB	1:K:3949:PHE:CZ	1.97	1.40
2:D:1389:LYS:HG2	1:F:1961:ARG:CB	1.48	1.40
1:C:1028:LYS:HD3	1:E:1756:ILE:CD1	1.51	1.40
2:D:1247:GLN:CB	1:I:3153:ASN:CA	1.82	1.39
2:D:1523:ASP:CB	1:J:3546:MET:HE2	1.23	1.39
1:F:2193:ASP:HB3	1:I:3383:ILE:CD1	1.50	1.39
1:F:2178:VAL:O	1:I:3358:GLN:CB	1.70	1.39
1:A:297:LEU:CA	1:L:4607:LYS:HG3	1.12	1.39
2:D:1470:GLY:CA	1:M:4738:PHE:HB3	0.93	1.39
1:F:2231:LYS:HE3	1:I:3397:LEU:CA	1.51	1.39
1:H:3019:LEU:HG	1:K:4211:LYS:NZ	1.17	1.39
1:C:1019:LEU:CD2	1:E:1832:ARG:HD2	1.50	1.39
1:C:1023:LEU:CD1	1:E:1771:VAL:CA	1.99	1.39
2:D:1309:MET:HE1	1:F:1967:GLN:CG	1.51	1.39
1:F:2210:ARG:HA	1:I:3416:ARG:NH1	1.12	1.39
2:D:1463:LEU:CD2	1:K:3940:PRO:CB	2.01	1.39
1:F:2224:LEU:CD2	1:I:3419:LYS:HB2	1.10	1.39
1:H:2953:LEU:HA	1:K:4145:MET:CA	1.50	1.39

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:2176:SER:HB2	1:I:3353:MET:CE	1.51	1.38
2:D:1221:GLN:NE2	1:J:3553:PHE:C	1.82	1.38
1:C:1093:LYS:CG	1:E:1836:GLN:HE22	1.29	1.38
1:G:2624:ARG:NE	1:M:4999:LEU:CD1	1.86	1.38
2:D:1405:ARG:HH11	1:F:1962:MET:CE	1.34	1.37
1:C:1088:LEU:CA	1:E:1834:GLY:O	1.72	1.37
2:D:1214:ASN:HB3	1:J:3548:ARG:NE	1.39	1.37
2:D:1260:TRP:CZ2	1:I:3155:GLN:CG	2.06	1.37
1:F:2193:ASP:OD2	1:I:3361:ALA:CB	1.72	1.37
1:G:2557:LEU:CD1	1:M:4938:LYS:NZ	1.85	1.37
2:D:1523:ASP:HB2	1:J:3548:ARG:CD	1.09	1.37
1:F:2189:ILE:CG1	1:I:3383:ILE:C	1.92	1.37
1:G:2589:ASP:CG	1:M:4940:ASP:CB	1.86	1.37
2:D:1246:TYR:CD2	1:I:3152:ARG:HA	1.58	1.37
2:D:1451:ALA:CB	1:K:3942:MET:CG	2.01	1.37
2:D:1260:TRP:HH2	1:I:3154:PHE:CD1	1.38	1.37
2:D:1470:GLY:CA	1:M:4738:PHE:CB	1.80	1.37
1:G:2562:LYS:CB	1:M:4937:MET:HE3	1.46	1.37
1:F:2151:GLY:CA	1:I:3356:ASP:CB	1.90	1.36
1:F:2178:VAL:HG13	1:I:3358:GLN:CA	0.89	1.36
2:D:1221:GLN:NE2	1:J:3553:PHE:CA	1.88	1.36
2:D:1451:ALA:CB	1:K:3942:MET:HG3	1.54	1.36
2:D:1272:ASP:CA	1:G:2359:PRO:HA	1.34	1.36
1:C:1027:MET:O	1:E:1779:VAL:CG2	1.68	1.35
1:C:1088:LEU:CB	1:E:1834:GLY:O	1.74	1.35
2:D:1365:GLY:C	1:F:1970:PHE:CB	1.98	1.35
1:F:2150:LEU:HD13	1:I:3418:GLY:N	1.03	1.35
1:G:2624:ARG:NE	1:M:4999:LEU:HD13	1.35	1.35
2:D:1389:LYS:CG	1:F:1961:ARG:HB2	1.54	1.35
1:A:260:LYS:CA	1:L:4544:ASP:CB	2.00	1.34
2:D:1272:ASP:HA	1:G:2359:PRO:CA	1.07	1.34
2:D:1446:ASN:HA	1:K:3949:PHE:CE2	1.61	1.34
2:D:1487:ASP:O	1:K:3941:ARG:CB	1.72	1.34
1:F:2210:ARG:CA	1:I:3416:ARG:NH2	1.88	1.34
1:C:1019:LEU:HD21	1:E:1832:ARG:CD	1.56	1.34
1:F:2230:GLY:HA2	1:I:3338:LEU:CD1	1.57	1.34
1:C:1017:THR:O	1:E:1832:ARG:NH1	1.57	1.34
2:D:1244:TRP:CH2	1:I:3150:MET:N	1.94	1.34
1:F:2179:LEU:CA	1:I:3355:VAL:O	1.75	1.34
1:F:2193:ASP:CG	1:I:3361:ALA:CB	1.99	1.34
1:A:33:PRO:CB	2:D:1533:GLN:HB3	1.51	1.34

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:2175:VAL:HG22	1:I:3380:GLY:C	1.51	1.34
1:C:1025:LYS:HA	1:E:1795:ALA:CB	1.58	1.33
2:D:1469:LYS:C	1:M:4738:PHE:CB	2.00	1.33
1:H:2958:LYS:O	1:K:4172:GLY:CA	1.75	1.33
2:D:1272:ASP:HA	1:G:2359:PRO:CB	1.59	1.33
1:F:2197:SER:CB	1:I:3421:VAL:HG21	1.57	1.33
2:D:1221:GLN:CD	1:J:3553:PHE:C	1.93	1.33
1:H:2958:LYS:HB2	1:K:4172:GLY:N	1.04	1.33
1:H:2958:LYS:HB2	1:K:4172:GLY:CA	1.56	1.33
1:B:630:ALA:HB1	1:J:3750:LYS:CE	1.29	1.32
1:F:2178:VAL:HG13	1:I:3358:GLN:CB	1.59	1.32
1:G:2624:ARG:CD	1:M:4941:ALA:CB	2.04	1.32
1:H:2958:LYS:HB2	1:K:4171:ALA:C	1.53	1.32
2:D:1324:PHE:CE2	1:G:2357:ARG:HD2	1.64	1.32
1:F:2174:PHE:C	1:I:3380:GLY:H	1.27	1.32
1:F:2175:VAL:HB	1:I:3363:VAL:N	1.44	1.32
1:F:2189:ILE:HG12	1:I:3383:ILE:C	1.37	1.32
1:F:2231:LYS:NZ	1:I:3400:GLN:HB2	1.01	1.32
2:D:1325:PHE:CD2	1:G:2357:ARG:CB	2.12	1.31
1:G:2560:ALA:O	1:M:4935:LYS:HB2	1.29	1.31
1:H:2958:LYS:NZ	1:K:4156:SER:O	1.60	1.31
2:D:1448:GLU:N	1:K:3946:PHE:C	1.85	1.31
1:A:33:PRO:HB3	2:D:1532:TYR:O	1.15	1.31
1:C:1023:LEU:C	1:E:1778:PHE:HE2	1.37	1.31
2:D:1274:GLY:C	1:G:2362:PHE:H	1.35	1.31
1:F:2229:ASP:C	1:I:3338:LEU:HB2	1.57	1.30
1:A:32:MET:CG	2:D:1532:TYR:HA	1.58	1.30
1:F:2227:LEU:CD1	1:I:3372:ALA:HB2	1.58	1.30
1:G:2589:ASP:OD1	1:M:4940:ASP:CB	1.74	1.30
1:C:1025:LYS:HB3	1:E:1780:SER:O	1.30	1.30
2:D:1425:GLN:C	1:K:3946:PHE:CE1	2.07	1.30
1:F:2157:LEU:CD1	1:I:3366:VAL:H	1.44	1.30
1:F:2189:ILE:HG12	1:I:3383:ILE:CA	1.45	1.30
2:D:1244:TRP:HH2	1:I:3149:ARG:C	1.38	1.29
2:D:1463:LEU:CG	1:K:3942:MET:HE3	1.61	1.29
1:C:1089:LEU:HG	1:E:1836:GLN:O	1.18	1.29
2:D:1272:ASP:CA	1:G:2359:PRO:CA	1.92	1.29
1:F:2192:GLY:O	1:I:3363:VAL:HA	1.30	1.29
1:F:2233:VAL:O	1:I:3420:GLN:CG	1.80	1.29
2:D:1320:ARG:C	1:G:2364:GLN:CB	2.05	1.29
2:D:1363:GLN:OE1	1:H:2755:PRO:HB3	1.32	1.29

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:1369:GLY:O	1:F:1967:GLN:NE2	1.64	1.29
2:D:1425:GLN:HA	1:K:3946:PHE:CZ	1.64	1.29
1:F:2169:ALA:CB	1:I:3339:GLY:O	1.79	1.29
2:D:1463:LEU:HD22	1:K:3940:PRO:CB	1.56	1.29
2:D:1470:GLY:N	1:M:4738:PHE:HB3	1.47	1.29
1:F:2150:LEU:CD1	1:I:3418:GLY:N	1.96	1.29
2:D:1409:TYR:HB3	1:L:4342:PHE:C	1.55	1.29
2:D:1448:GLU:CA	1:K:3947:GLN:N	1.95	1.29
1:F:2191:ALA:HB3	1:I:3344:GLU:O	1.12	1.29
1:G:2624:ARG:CA	1:M:4999:LEU:HD23	1.42	1.29
2:D:1325:PHE:HA	1:G:2359:PRO:O	1.33	1.28
1:F:2191:ALA:CB	1:I:3344:GLU:O	1.81	1.28
1:C:1025:LYS:CA	1:E:1795:ALA:CB	2.10	1.28
1:C:1053:ALA:HB3	1:E:1773:ALA:CB	1.64	1.28
2:D:1241:TYR:CZ	1:E:1573:PHE:HE1	1.50	1.28
1:F:2203:ILE:C	1:I:3378:LYS:HG3	1.50	1.28
1:F:2177:GLN:OE1	1:I:3354:LYS:HA	1.32	1.28
1:F:2213:VAL:CG1	1:I:3419:LYS:HE2	1.60	1.28
1:F:2179:LEU:HA	1:I:3355:VAL:O	1.26	1.28
1:H:3020:ARG:O	1:K:4211:LYS:HG2	1.11	1.28
1:A:31:ARG:HG2	2:D:1493:TYR:N	1.42	1.28
1:H:2956:ALA:HB3	1:K:4145:MET:N	1.08	1.28
1:A:29:THR:CG2	2:D:1494:PHE:CZ	2.17	1.27
2:D:1469:LYS:O	1:M:4738:PHE:CB	1.82	1.27
1:F:2185:ALA:H	1:I:3357:ALA:CB	1.46	1.27
1:F:2229:ASP:C	1:I:3401:VAL:HG11	1.47	1.27
1:A:31:ARG:HG2	2:D:1493:TYR:CA	1.65	1.27
1:A:260:LYS:CB	1:L:4544:ASP:HB2	1.62	1.27
2:D:1411:GLY:HA2	1:L:4345:PHE:N	0.95	1.27
2:D:1447:PHE:CD1	1:K:3946:PHE:O	1.88	1.27
1:A:231:LEU:HD22	1:L:4540:ALA:O	1.28	1.27
1:F:2213:VAL:HG22	1:I:3416:ARG:CZ	1.63	1.27
1:F:2152:ILE:HG21	1:I:3415:LEU:O	1.33	1.27
1:F:2229:ASP:OD1	1:I:3398:ARG:HA	1.28	1.27
1:H:2958:LYS:CB	1:K:4172:GLY:N	1.98	1.27
2:D:1361:LEU:HA	1:H:2760:GLN:NE2	1.49	1.27
1:F:2213:VAL:CG2	1:I:3416:ARG:NH2	1.98	1.27
1:H:2958:LYS:C	1:K:4172:GLY:HA3	1.60	1.27
2:D:1279:GLY:HA3	1:E:1569:ASN:OD1	1.25	1.26
2:D:1470:GLY:N	1:M:4738:PHE:CB	1.97	1.26
1:F:2174:PHE:C	1:I:3380:GLY:N	1.77	1.26

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:1325:PHE:HB2	1:G:2357:ARG:CA	1.17	1.26
1:F:2194:VAL:O	1:I:3377:ILE:HG21	1.33	1.26
1:F:2225:GLY:O	1:I:3377:ILE:HD11	1.35	1.26
1:F:2227:LEU:HA	1:I:3338:LEU:CD2	1.64	1.26
2:D:1368:VAL:HG12	1:F:1964:ARG:O	1.27	1.26
1:F:2153:MET:HB3	1:I:3353:MET:O	1.19	1.26
1:F:2228:ARG:NE	1:I:3397:LEU:HB3	1.47	1.26
1:H:2957:MET:HG3	1:K:4145:MET:C	1.58	1.26
1:F:2228:ARG:CD	1:I:3397:LEU:CB	1.95	1.26
1:F:2237:LEU:HD23	1:I:3417:ASP:C	1.61	1.26
2:D:1325:PHE:HD2	1:G:2357:ARG:CB	1.43	1.26
1:G:2557:LEU:HB3	1:M:4938:LYS:CE	1.63	1.26
2:D:1272:ASP:CB	1:G:2358:MET:HG2	1.56	1.25
2:D:1358:ARG:HB2	1:H:2758:PHE:CE2	1.70	1.25
2:D:1393:ALA:O	1:H:2755:PRO:O	1.54	1.25
1:F:2224:LEU:CB	1:I:3414:LEU:HB2	1.65	1.25
1:G:2624:ARG:HE	1:M:4999:LEU:CD1	1.45	1.25
1:H:2958:LYS:CB	1:K:4171:ALA:C	2.08	1.25
1:H:3021:ASP:CA	1:K:4211:LYS:HD3	1.62	1.25
1:B:436:PHE:C	2:D:1191:VAL:HG23	1.52	1.25
1:B:429:PRO:HB2	2:D:1232:THR:OG1	1.34	1.25
1:C:1091:ASP:CB	1:E:1836:GLN:OE1	1.84	1.25
2:D:1214:ASN:CB	1:J:3548:ARG:HG3	1.67	1.25
2:D:1340:LYS:CB	1:F:1970:PHE:CG	2.11	1.25
2:D:1260:TRP:CE2	1:I:3155:GLN:HG2	1.72	1.25
2:D:1474:GLY:HA2	1:M:4732:PRO:CB	1.66	1.25
1:F:2230:GLY:N	1:I:3401:VAL:CG1	1.98	1.25
1:F:2230:GLY:CA	1:I:3338:LEU:HD22	1.65	1.25
1:G:2624:ARG:CG	1:M:4999:LEU:CD2	2.11	1.25
1:F:2167:VAL:HG12	1:I:3341:MET:C	1.62	1.25
2:D:1249:GLN:HG2	1:I:3154:PHE:CB	1.33	1.25
2:D:1425:GLN:C	1:K:3946:PHE:CD1	2.14	1.25
1:F:2175:VAL:CB	1:I:3363:VAL:H	1.47	1.25
1:C:1093:LYS:HG2	1:E:1836:GLN:NE2	0.93	1.24
1:F:2177:GLN:OE1	1:I:3354:LYS:CA	1.85	1.24
1:G:2589:ASP:CG	1:M:4940:ASP:HB3	1.46	1.24
2:D:1324:PHE:CE2	1:G:2357:ARG:HG3	1.71	1.24
1:C:1091:ASP:HB2	1:E:1836:GLN:OE1	1.30	1.24
2:D:1208:LEU:HG	1:J:3555:GLY:O	1.13	1.24
2:D:1221:GLN:CD	1:J:3553:PHE:HB2	1.63	1.24
2:D:1448:GLU:N	1:K:3947:GLN:CA	1.86	1.24

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:2173:ALA:CB	1:I:3379:ALA:O	1.75	1.24
1:F:2194:VAL:CG2	1:I:3365:GLN:O	1.85	1.24
1:A:263:ASP:C	1:L:4604:ARG:HG2	1.63	1.24
2:D:1368:VAL:C	1:F:1965:ASN:OD1	1.80	1.24
2:D:1468:SER:HB2	1:K:3949:PHE:CE1	1.21	1.24
1:F:2230:GLY:O	1:I:3410:LEU:CD1	1.86	1.24
1:F:2237:LEU:HB3	1:I:3417:ASP:O	1.37	1.24
1:A:33:PRO:HG2	2:D:1204:LYS:CB	1.67	1.23
2:D:1389:LYS:HZ3	1:F:1960:PRO:C	1.46	1.23
1:F:2169:ALA:HB3	1:I:3339:GLY:C	1.61	1.23
1:G:2567:ARG:HH21	1:M:5000:ARG:CZ	1.52	1.23
1:B:632:LYS:NZ	1:J:3749:MET:CE	2.00	1.23
1:C:1055:ASP:O	1:E:1833:ASP:N	1.70	1.23
1:G:2589:ASP:OD1	1:M:4940:ASP:HB2	1.13	1.23
1:H:2983:ALA:O	1:K:4148:ASP:CB	1.85	1.23
1:A:33:PRO:HB2	2:D:1533:GLN:CB	1.68	1.23
1:C:1023:LEU:HD13	1:E:1771:VAL:CB	1.69	1.23
1:A:31:ARG:CG	2:D:1492:TYR:C	2.00	1.23
1:C:1019:LEU:CD2	1:E:1832:ARG:CD	2.14	1.23
1:C:1027:MET:CE	1:E:1771:VAL:CG1	2.16	1.23
1:C:1089:LEU:HG	1:E:1836:GLN:C	1.55	1.23
2:D:1435:VAL:HG21	1:M:4736:ARG:O	1.39	1.23
2:D:1487:ASP:O	1:K:3941:ARG:HB3	1.07	1.23
2:D:1523:ASP:CB	1:J:3546:MET:CE	1.96	1.23
1:A:33:PRO:HB3	2:D:1532:TYR:C	1.61	1.23
1:A:231:LEU:CD2	1:L:4540:ALA:O	1.86	1.23
1:A:300:GLY:N	1:L:4607:LYS:CB	1.90	1.23
2:D:1265:PHE:HB2	1:E:1571:GLN:O	1.33	1.23
2:D:1389:LYS:NZ	1:F:1961:ARG:N	1.86	1.23
2:D:1469:LYS:O	1:M:4738:PHE:HB2	1.09	1.23
1:H:2985:ASP:OD1	1:K:4209:ASP:HA	1.36	1.23
2:D:1322:THR:HG23	1:G:2361:ASN:ND2	1.52	1.22
2:D:1408:THR:OG1	1:L:4343:GLN:OE1	1.57	1.22
1:F:2197:SER:OG	1:I:3421:VAL:HG21	1.33	1.22
1:A:297:LEU:CA	1:L:4607:LYS:CG	1.79	1.22
2:D:1320:ARG:CA	1:G:2364:GLN:HB2	1.69	1.22
2:D:1390:ARG:N	1:F:1961:ARG:HB3	1.52	1.22
1:H:2958:LYS:CD	1:K:4171:ALA:HB1	1.70	1.22
1:A:33:PRO:CB	2:D:1532:TYR:O	1.88	1.22
1:C:1028:LYS:HE2	1:E:1781:GLN:O	1.37	1.22
1:C:1039:GLN:HG2	1:E:1772:ASP:CG	1.64	1.22

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1039:GLN:CG	1:E:1772:ASP:OD1	1.88	1.22
2:D:1260:TRP:CE2	1:I:3155:GLN:CG	2.22	1.22
2:D:1324:PHE:CE2	1:G:2357:ARG:CD	2.23	1.22
2:D:1340:LYS:CB	1:F:1970:PHE:CD2	2.17	1.22
1:F:2224:LEU:CD1	1:I:3414:LEU:C	2.10	1.22
1:A:298:ARG:O	1:L:4569:ASP:CB	1.86	1.21
1:F:2197:SER:OG	1:I:3421:VAL:CG2	1.88	1.21
2:D:1289:THR:HG22	1:K:3947:GLN:OE1	1.32	1.21
1:H:2953:LEU:CA	1:K:4145:MET:HA	1.71	1.21
2:D:1274:GLY:C	1:G:2362:PHE:N	1.98	1.21
2:D:1324:PHE:CE2	1:G:2357:ARG:CG	2.23	1.21
2:D:1366:ASP:N	1:F:1970:PHE:HB3	1.54	1.21
1:F:2183:SER:C	1:I:3359:ARG:NH2	1.96	1.21
1:F:2185:ALA:N	1:I:3357:ALA:HB1	1.55	1.21
1:G:2557:LEU:CD1	1:M:4938:LYS:HZ1	1.43	1.21
1:F:2224:LEU:HD11	1:I:3414:LEU:O	1.19	1.21
1:C:1036:PHE:CD2	1:E:1832:ARG:CA	2.11	1.20
2:D:1260:TRP:CZ2	1:I:3155:GLN:CB	2.15	1.20
1:C:1029:VAL:O	1:E:1794:LYS:N	1.73	1.20
2:D:1244:TRP:CH2	1:I:3149:ARG:C	2.17	1.20
2:D:1366:ASP:OD1	1:F:1970:PHE:CD2	1.94	1.20
2:D:1389:LYS:NZ	1:F:1960:PRO:HA	1.56	1.20
1:C:1023:LEU:HD13	1:E:1771:VAL:CG1	1.71	1.20
2:D:1221:GLN:OE1	1:J:3553:PHE:HB2	1.04	1.20
1:F:2228:ARG:CB	1:I:3397:LEU:HD22	1.72	1.20
1:F:2228:ARG:HB3	1:I:3397:LEU:CD2	1.70	1.20
2:D:1266:ALA:HB1	1:E:1574:PHE:N	1.54	1.20
2:D:1321:ASN:CA	1:G:2361:ASN:CB	2.17	1.20
2:D:1436:GLY:CA	1:H:2761:PHE:HE1	1.55	1.20
1:H:3020:ARG:O	1:K:4211:LYS:CG	1.89	1.20
2:D:1365:GLY:CA	1:F:1970:PHE:HB2	1.71	1.20
1:C:1023:LEU:CG	1:E:1771:VAL:CG1	2.21	1.19
1:F:2153:MET:O	1:I:3355:VAL:CG1	1.89	1.19
1:G:2623:LEU:HD23	1:M:5000:ARG:HA	1.23	1.19
2:D:1335:VAL:HG12	1:F:1966:PHE:CZ	1.59	1.19
1:F:2202:PRO:HA	1:I:3376:GLY:CA	1.71	1.19
1:G:2562:LYS:CB	1:M:4937:MET:HE2	1.56	1.19
1:A:297:LEU:C	1:L:4607:LYS:HG3	1.65	1.19
1:C:1090:ARG:HA	1:E:1830:LEU:N	1.21	1.19
1:F:2209:LEU:HD21	1:I:3416:ARG:CB	1.61	1.19
1:H:3021:ASP:C	1:K:4211:LYS:HD3	1.65	1.19

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:260:LYS:HB3	1:L:4544:ASP:C	1.67	1.19
2:D:1389:LYS:CE	1:F:1961:ARG:H	1.55	1.19
1:F:2225:GLY:O	1:I:3414:LEU:HD11	1.03	1.19
1:F:2227:LEU:CD1	1:I:3338:LEU:O	1.89	1.19
1:G:2626:GLY:CA	1:M:5003:LYS:H	1.55	1.19
2:D:1365:GLY:CA	1:F:1970:PHE:CB	2.19	1.18
2:D:1369:GLY:C	1:F:1967:GLN:NE2	2.00	1.18
2:D:1408:THR:HA	1:M:4741:PHE:CZ	1.78	1.18
1:G:2561:MET:CE	1:M:4938:LYS:HE2	1.62	1.18
1:A:33:PRO:HA	2:D:1532:TYR:C	1.69	1.18
2:D:1411:GLY:CA	1:L:4345:PHE:N	1.76	1.18
2:D:1438:LEU:HA	1:H:2762:PHE:C	1.66	1.18
1:C:1023:LEU:O	1:E:1778:PHE:HE2	0.85	1.18
1:C:1092:GLY:N	1:E:1836:GLN:CG	1.69	1.18
2:D:1321:ASN:CA	1:G:2361:ASN:HB3	1.68	1.18
2:D:1451:ALA:O	1:K:3943:PRO:HA	1.41	1.18
1:F:2193:ASP:OD2	1:I:3361:ALA:HB3	1.00	1.18
1:F:2198:LEU:CG	1:I:3419:LYS:HB3	1.73	1.18
1:G:2624:ARG:CA	1:M:4999:LEU:HD22	1.48	1.18
2:D:1276:PHE:HB2	1:G:2362:PHE:HD1	1.04	1.18
2:D:1389:LYS:HG3	1:F:1961:ARG:O	1.39	1.18
2:D:1404:ASP:OD1	1:F:1960:PRO:O	1.61	1.18
1:F:2178:VAL:CG1	1:I:3358:GLN:CA	1.79	1.18
1:H:3019:LEU:CG	1:K:4211:LYS:NZ	2.05	1.18
1:C:1025:LYS:CG	1:E:1795:ALA:HB1	1.63	1.18
1:C:1088:LEU:HB3	1:E:1834:GLY:O	1.40	1.18
2:D:1385:ILE:CG2	1:L:4341:ASN:ND2	1.86	1.18
2:D:1391:THR:O	1:H:2755:PRO:HD3	1.02	1.18
2:D:1463:LEU:CD2	1:K:3942:MET:CE	2.05	1.18
1:F:2178:VAL:CB	1:I:3358:GLN:HA	1.73	1.18
2:D:1393:ALA:C	1:H:2755:PRO:O	1.82	1.17
1:H:2958:LYS:HD3	1:K:4171:ALA:HB1	1.21	1.17
1:A:296:LEU:N	1:L:4607:LYS:NZ	1.90	1.17
1:B:634:ASP:OD2	1:J:3812:ARG:CA	1.74	1.17
2:D:1214:ASN:CB	1:J:3548:ARG:NE	2.07	1.17
2:D:1221:GLN:OE1	1:J:3553:PHE:CB	1.92	1.17
2:D:1214:ASN:HB2	1:J:3548:ARG:CD	1.74	1.17
2:D:1221:GLN:HE22	1:J:3553:PHE:CA	1.50	1.17
2:D:1463:LEU:CD2	1:K:3940:PRO:HB3	1.67	1.17
1:F:2178:VAL:HG11	1:I:3359:ARG:N	1.59	1.17
1:F:2222:LEU:HD12	1:I:3419:LYS:CD	1.73	1.17

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:29:THR:HG23	2:D:1494:PHE:CE1	1.79	1.17
2:D:1213:ASP:HB2	1:J:3546:MET:CE	1.75	1.17
2:D:1443:LYS:O	1:M:4738:PHE:HA	1.37	1.17
2:D:1466:LEU:H	1:K:3950:PHE:HB3	1.09	1.17
1:A:298:ARG:O	1:L:4569:ASP:CG	1.85	1.17
1:A:298:ARG:C	1:L:4602:LEU:HB3	1.69	1.17
2:D:1210:TYR:C	1:J:3554:PHE:CD1	2.14	1.17
1:F:2197:SER:OG	1:I:3421:VAL:CB	1.93	1.17
1:F:2227:LEU:CG	1:I:3338:LEU:O	1.93	1.17
1:F:2237:LEU:CB	1:I:3417:ASP:O	1.93	1.17
1:F:2237:LEU:CG	1:I:3417:ASP:O	1.92	1.17
1:A:300:GLY:CA	1:L:4608:GLN:N	1.93	1.16
1:C:1089:LEU:HD21	1:E:1837:VAL:CG2	1.75	1.16
2:D:1260:TRP:CZ3	1:I:3154:PHE:CD1	2.33	1.16
2:D:1267:GLY:O	1:E:1573:PHE:O	1.63	1.16
2:D:1389:LYS:NZ	1:F:1960:PRO:CA	2.09	1.16
2:D:1451:ALA:HB3	1:K:3942:MET:SD	1.83	1.16
1:F:2198:LEU:HG	1:I:3419:LYS:CB	1.50	1.16
1:G:2562:LYS:CA	1:M:4937:MET:CE	2.22	1.16
1:A:260:LYS:HB3	1:L:4544:ASP:CB	1.76	1.16
2:D:1321:ASN:N	1:G:2364:GLN:CB	1.94	1.16
2:D:1365:GLY:HA2	1:F:1970:PHE:CB	1.72	1.16
2:D:1446:ASN:CA	1:K:3949:PHE:HE2	1.56	1.16
1:F:2225:GLY:O	1:I:3414:LEU:CD1	1.91	1.16
1:G:2627:LYS:HE2	1:M:4999:LEU:CG	1.75	1.16
2:D:1272:ASP:CB	1:G:2359:PRO:HA	1.75	1.16
1:F:2231:LYS:CD	1:I:3386:LEU:HD12	1.73	1.16
1:A:32:MET:HG3	2:D:1532:TYR:HA	1.25	1.16
1:G:2627:LYS:CE	1:M:4999:LEU:HG	1.76	1.16
1:C:1028:LYS:NZ	1:E:1757:MET:N	1.79	1.15
2:D:1432:ALA:H	1:M:4740:GLN:HB2	1.12	1.15
1:F:2150:LEU:HG	1:I:3415:LEU:HD23	1.24	1.15
1:F:2175:VAL:HG11	1:I:3382:VAL:CG2	1.75	1.15
1:F:2190:LYS:CG	1:I:3360:GLY:N	2.00	1.15
1:F:2228:ARG:HE	1:I:3397:LEU:CA	1.38	1.15
1:A:298:ARG:CB	1:L:4603:LEU:N	1.87	1.15
2:D:1384:ALA:O	1:L:4343:GLN:HG3	1.43	1.15
2:D:1436:GLY:C	1:H:2761:PHE:CD1	2.25	1.15
2:D:1463:LEU:HD21	1:K:3940:PRO:CB	1.77	1.15
1:F:2193:ASP:CB	1:I:3383:ILE:CD1	2.12	1.15
2:D:1320:ARG:C	1:G:2364:GLN:HB3	1.65	1.15

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:1439:GLY:CA	1:M:4735:PRO:HD2	1.74	1.15
1:F:2195:ILE:HG13	1:I:3414:LEU:CD2	1.77	1.15
1:F:2230:GLY:HA2	1:I:3338:LEU:CG	1.76	1.15
1:C:1056:VAL:CG2	1:E:1832:ARG:HB2	1.75	1.15
1:C:1089:LEU:CG	1:E:1836:GLN:C	2.19	1.15
1:G:2588:GLY:HA3	1:M:4939:VAL:C	1.71	1.15
1:A:300:GLY:H	1:L:4607:LYS:CB	1.41	1.15
2:D:1260:TRP:CH2	1:I:3154:PHE:CG	2.26	1.15
2:D:1320:ARG:C	1:G:2364:GLN:HB2	1.69	1.15
2:D:1391:THR:O	1:H:2755:PRO:CD	1.94	1.15
1:F:2194:VAL:HG21	1:I:3365:GLN:C	1.70	1.15
1:F:2228:ARG:HD2	1:I:3394:PHE:HA	1.19	1.15
1:A:31:ARG:N	2:D:1498:MET:O	1.80	1.14
2:D:1385:ILE:HB	1:L:4341:ASN:CG	1.62	1.14
2:D:1462:SER:OG	1:K:3943:PRO:CD	1.93	1.14
1:A:298:ARG:HB3	1:L:4603:LEU:N	1.35	1.14
1:C:1025:LYS:CG	1:E:1795:ALA:HB3	1.63	1.14
1:C:1039:GLN:HG2	1:E:1772:ASP:OD1	0.99	1.14
2:D:1385:ILE:CB	1:L:4341:ASN:CG	2.08	1.14
1:F:2193:ASP:OD1	1:I:3361:ALA:CB	1.92	1.14
1:A:260:LYS:CB	1:L:4544:ASP:CB	2.20	1.14
1:F:2203:ILE:HG22	1:I:3378:LYS:CG	1.77	1.14
1:A:33:PRO:CB	2:D:1532:TYR:C	2.18	1.14
1:A:298:ARG:HA	1:L:4569:ASP:OD1	1.47	1.14
1:B:631:MET:SD	1:J:3752:ASP:OD1	2.05	1.14
2:D:1436:GLY:C	1:H:2761:PHE:CE1	2.25	1.14
2:D:1451:ALA:C	1:K:3943:PRO:CA	2.21	1.14
1:F:2224:LEU:HD13	1:I:3414:LEU:N	1.62	1.14
1:F:2230:GLY:CA	1:I:3338:LEU:HD13	1.78	1.14
1:C:1092:GLY:N	1:E:1836:GLN:CD	2.04	1.14
1:F:2151:GLY:HA2	1:I:3356:ASP:CB	1.61	1.14
1:F:2230:GLY:N	1:I:3338:LEU:HB2	1.61	1.14
2:D:1214:ASN:CB	1:J:3548:ARG:CG	2.22	1.13
2:D:1246:TYR:O	1:I:3151:PRO:HB2	1.46	1.13
2:D:1324:PHE:CD2	1:G:2357:ARG:HD2	1.83	1.13
2:D:1425:GLN:CA	1:K:3946:PHE:CD1	2.31	1.13
1:F:2179:LEU:N	1:I:3356:ASP:C	1.96	1.13
1:G:2626:GLY:CA	1:M:5003:LYS:N	2.06	1.13
1:C:1023:LEU:HB3	1:E:1771:VAL:CG1	1.77	1.13
2:D:1292:THR:O	1:K:3945:ASN:ND2	1.72	1.13
2:D:1302:THR:O	1:M:4739:GLN:OE1	1.67	1.13

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:2152:ILE:CG2	1:I:3415:LEU:O	1.97	1.13
1:H:2956:ALA:CB	1:K:4144:ALA:C	2.21	1.13
1:A:300:GLY:H	1:L:4607:LYS:HB2	1.10	1.13
2:D:1320:ARG:CB	1:G:2363:GLN:HG3	1.79	1.13
1:F:2225:GLY:O	1:I:3377:ILE:CD1	1.95	1.13
1:A:33:PRO:CA	2:D:1532:TYR:C	2.21	1.13
1:A:34:ARG:O	2:D:1533:GLN:C	1.90	1.13
1:C:1014:ILE:HD11	1:C:1068:PHE:HE1	1.14	1.12
1:C:1027:MET:CE	1:E:1771:VAL:HG12	1.74	1.13
1:A:299:ASP:O	1:L:4609:VAL:HG23	1.46	1.12
1:B:431:ASN:HB2	2:D:1197:ASN:HD22	1.07	1.12
1:C:1053:ALA:CB	1:E:1773:ALA:CB	2.22	1.12
2:D:1448:GLU:HB3	1:K:3948:GLN:HB3	1.31	1.13
1:C:1089:LEU:CD2	1:E:1836:GLN:C	2.22	1.12
2:D:1435:VAL:HG21	1:M:4736:ARG:C	1.74	1.12
1:F:2177:GLN:CA	1:I:3350:ALA:HB1	1.73	1.12
1:H:2953:LEU:HD22	1:K:4146:LYS:N	1.42	1.12
1:I:3340:ILE:HD11	1:I:3394:PHE:HE1	1.14	1.12
2:D:1241:TYR:CZ	1:E:1573:PHE:CE1	2.37	1.12
2:D:1447:PHE:O	1:K:3948:GLN:C	1.93	1.12
1:F:2151:GLY:HA2	1:I:3356:ASP:CG	1.75	1.12
1:F:2153:MET:O	1:I:3355:VAL:HG12	1.47	1.12
1:F:2177:GLN:HG3	1:I:3355:VAL:HG13	1.30	1.12
1:F:2178:VAL:HG11	1:I:3345:LEU:HD13	1.14	1.12
1:C:1090:ARG:HG2	1:E:1829:GLY:C	1.74	1.12
2:D:1213:ASP:CB	1:J:3546:MET:HE1	1.79	1.12
1:H:3020:ARG:C	1:K:4211:LYS:CG	2.22	1.12
1:K:4132:ILE:HD11	1:K:4186:PHE:HE1	1.15	1.12
1:A:34:ARG:NH2	2:D:1496:LYS:HA	1.23	1.12
2:D:1320:ARG:HA	1:G:2364:GLN:HB2	1.26	1.12
2:D:1388:SER:OG	1:F:1968:GLN:NE2	1.82	1.12
1:H:2957:MET:HG2	1:K:4147:VAL:HG13	1.16	1.12
1:J:3736:ILE:HD11	1:J:3790:PHE:HE1	1.14	1.12
1:C:1023:LEU:C	1:E:1778:PHE:CE2	2.18	1.12
1:C:1027:MET:HE2	1:E:1771:VAL:HG11	1.17	1.12
2:D:1391:THR:C	1:H:2755:PRO:CD	2.22	1.12
1:F:2167:VAL:O	1:I:3341:MET:HE3	1.35	1.12
1:A:31:ARG:HG2	2:D:1492:TYR:O	1.50	1.11
1:C:1055:ASP:C	1:E:1834:GLY:H	1.57	1.11
2:D:1439:GLY:HA3	1:M:4735:PRO:CD	1.80	1.11
1:F:2153:MET:SD	1:I:3354:LYS:CB	2.25	1.11

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:2627:LYS:HE2	1:M:4999:LEU:HG	1.15	1.11
1:B:428:MET:HE2	2:D:1195:ASP:HB2	1.17	1.11
2:D:1433:THR:HG23	1:M:4739:GLN:NE2	1.64	1.11
2:D:1523:ASP:HB3	1:J:3546:MET:HE3	1.23	1.11
1:F:2203:ILE:HG22	1:I:3378:LYS:CB	1.80	1.11
1:G:2561:MET:HB2	1:M:4938:LYS:H	1.15	1.11
1:A:34:ARG:NH2	2:D:1496:LYS:CA	2.14	1.11
1:A:296:LEU:CA	1:L:4605:ASP:OD2	1.90	1.11
2:D:1275:SER:N	1:G:2362:PHE:N	1.96	1.11
2:D:1391:THR:OG1	1:H:2755:PRO:CD	1.98	1.11
1:F:2224:LEU:HB2	1:I:3414:LEU:CB	1.79	1.11
1:F:2228:ARG:NE	1:I:3397:LEU:CB	2.11	1.11
1:H:3019:LEU:CG	1:K:4211:LYS:CE	2.29	1.11
1:A:260:LYS:HA	1:L:4544:ASP:HB3	1.29	1.11
1:A:260:LYS:NZ	1:L:4547:ARG:NH1	1.99	1.11
2:D:1321:ASN:HA	1:G:2361:ASN:HB2	1.13	1.11
2:D:1412:GLY:HA2	1:K:3946:PHE:HZ	1.13	1.11
2:D:1432:ALA:H	1:M:4740:GLN:CB	1.40	1.11
2:D:1451:ALA:CA	1:K:3942:MET:HG3	1.67	1.11
1:F:2177:GLN:CD	1:I:3355:VAL:H	1.59	1.11
1:G:2561:MET:HE2	1:M:4938:LYS:HE3	1.16	1.11
1:B:618:ILE:HD11	1:B:672:PHE:HE1	1.14	1.11
1:C:1090:ARG:CA	1:E:1830:LEU:N	2.12	1.11
2:D:1324:PHE:HE2	1:G:2357:ARG:CD	1.60	1.11
2:D:1384:ALA:O	1:L:4341:ASN:OD1	1.65	1.11
2:D:1389:LYS:HE2	1:F:1960:PRO:HA	1.32	1.11
1:F:2151:GLY:HA3	1:I:3356:ASP:HB2	1.22	1.11
1:F:2157:LEU:HD11	1:I:3366:VAL:HG12	1.28	1.11
1:G:2624:ARG:HD3	1:M:4941:ALA:HB3	1.25	1.11
1:A:263:ASP:HA	1:L:4604:ARG:CB	1.58	1.10
1:B:693:LEU:C	1:J:3813:ASP:CB	2.22	1.10
1:C:1023:LEU:CD1	1:E:1771:VAL:CG1	2.29	1.10
1:C:1028:LYS:HD3	1:E:1756:ILE:HD12	1.21	1.10
1:F:2230:GLY:O	1:I:3410:LEU:HD12	1.49	1.10
1:C:1023:LEU:CB	1:E:1771:VAL:HG12	1.81	1.10
1:C:1056:VAL:HG22	1:E:1832:ARG:CB	1.81	1.10
2:D:1408:THR:CA	1:M:4741:PHE:HZ	1.64	1.10
1:F:2150:LEU:N	1:I:3417:ASP:HA	1.55	1.10
1:G:2625:ASP:OD1	1:M:4966:VAL:O	1.69	1.10
2:D:1217:VAL:HG23	1:J:3548:ARG:NH2	1.63	1.10
2:D:1302:THR:HG22	1:K:3949:PHE:CE1	1.86	1.10

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:34:ARG:HB2	2:D:1533:GLN:O	1.52	1.10
1:B:430:ARG:HD3	2:D:1195:ASP:HB2	1.28	1.10
2:D:1523:ASP:CB	1:J:3548:ARG:CD	1.88	1.10
1:H:2957:MET:CE	1:K:4145:MET:O	1.99	1.10
2:D:1275:SER:HA	1:G:2362:PHE:CD2	1.86	1.09
2:D:1276:PHE:HA	1:G:2363:GLN:HB3	1.32	1.09
2:D:1389:LYS:CE	1:F:1960:PRO:CA	2.28	1.09
2:D:1526:VAL:HG23	1:J:3545:ARG:HD2	1.23	1.09
1:F:2229:ASP:CG	1:I:3398:ARG:HA	1.77	1.09
1:G:2561:MET:HE1	1:M:4938:LYS:CE	1.60	1.09
1:C:1056:VAL:CG1	1:E:1835:LYS:HE3	1.83	1.09
2:D:1447:PHE:CE1	1:K:3946:PHE:CB	2.35	1.09
1:F:2178:VAL:HG11	1:I:3345:LEU:CD1	1.62	1.09
1:F:2202:PRO:HA	1:I:3376:GLY:HA3	1.20	1.09
1:G:2557:LEU:HD13	1:M:4938:LYS:NZ	1.56	1.09
1:B:428:MET:CE	2:D:1195:ASP:HB2	1.81	1.09
1:C:1023:LEU:HD13	1:E:1771:VAL:HA	1.13	1.09
2:D:1384:ALA:HA	1:L:4344:GLN:HE21	1.06	1.09
2:D:1440:TRP:HB3	1:M:4740:GLN:HE22	1.14	1.09
2:D:1463:LEU:HD22	1:K:3940:PRO:HB2	1.21	1.09
1:F:2189:ILE:HG13	1:I:3384:THR:N	1.66	1.09
1:F:2227:LEU:CD1	1:I:3372:ALA:HB3	1.80	1.09
1:A:31:ARG:CG	2:D:1492:TYR:O	1.98	1.09
1:A:299:ASP:H	1:L:4607:LYS:HB2	1.16	1.09
2:D:1221:GLN:CD	1:J:3553:PHE:O	1.95	1.09
2:D:1235:THR:HG22	1:E:1764:GLU:OE1	1.51	1.09
2:D:1436:GLY:HA2	1:H:2761:PHE:HE1	1.04	1.09
2:D:1452:GLN:HE21	1:K:3943:PRO:CD	1.56	1.09
1:F:2192:GLY:C	1:I:3363:VAL:HA	1.75	1.09
1:F:2222:LEU:CD1	1:I:3419:LYS:HD3	1.83	1.09
1:G:2557:LEU:HD12	1:M:4938:LYS:NZ	1.55	1.09
1:G:2626:GLY:CA	1:M:5001:ASP:H	1.64	1.09
1:A:301:LYS:HE2	1:L:4607:LYS:O	1.53	1.09
1:B:693:LEU:HD21	1:J:3815:LYS:HE2	1.10	1.09
1:C:1019:LEU:HD21	1:E:1832:ARG:HD3	1.11	1.09
1:C:1090:ARG:CA	1:E:1830:LEU:H	1.66	1.09
1:C:1093:LYS:CD	1:E:1836:GLN:HE22	1.65	1.09
2:D:1407:GLU:C	1:M:4741:PHE:CE1	2.29	1.09
2:D:1425:GLN:N	1:K:3946:PHE:CD1	2.03	1.09
2:D:1446:ASN:HD21	1:M:4739:GLN:CB	1.63	1.09
1:F:2203:ILE:O	1:I:3378:LYS:HG3	1.52	1.09

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:2231:LYS:HZ2	1:I:3400:GLN:CB	1.50	1.09
1:G:2562:LYS:HB2	1:M:4937:MET:HE3	1.34	1.09
1:F:2229:ASP:C	1:I:3401:VAL:CG1	2.10	1.08
1:F:2237:LEU:HD23	1:I:3417:ASP:O	1.52	1.08
1:G:2561:MET:CB	1:M:4934:ALA:O	1.93	1.08
1:A:33:PRO:CB	2:D:1533:GLN:CB	2.29	1.08
1:B:630:ALA:HB1	1:J:3750:LYS:HE2	1.34	1.08
1:C:1089:LEU:CD2	1:E:1837:VAL:HG23	1.83	1.08
2:D:1260:TRP:O	1:I:3153:ASN:HB3	1.52	1.08
2:D:1385:ILE:CA	1:L:4341:ASN:OD1	1.95	1.08
1:C:1023:LEU:CA	1:E:1778:PHE:CZ	2.35	1.08
2:D:1306:ASP:CB	1:H:2759:GLN:HE22	1.66	1.08
1:F:2175:VAL:HG22	1:I:3380:GLY:O	1.51	1.08
1:F:2184:ALA:O	1:I:3359:ARG:NE	1.86	1.08
1:F:2185:ALA:HB2	1:I:3357:ALA:CA	1.82	1.08
1:A:296:LEU:N	1:L:4607:LYS:HZ3	1.43	1.08
2:D:1368:VAL:CG1	1:F:1964:ARG:O	2.01	1.08
2:D:1435:VAL:CG2	1:M:4736:ARG:O	2.00	1.08
1:B:430:ARG:CD	2:D:1195:ASP:HB2	1.82	1.08
2:D:1260:TRP:CD1	1:I:3156:GLN:HB2	1.68	1.08
1:G:2587:ALA:O	1:M:4940:ASP:HA	1.54	1.08
1:A:296:LEU:HA	1:L:4605:ASP:OD2	1.32	1.07
1:F:2152:ILE:HD11	1:F:2206:PHE:HE1	1.14	1.07
1:F:2225:GLY:C	1:I:3377:ILE:HD11	1.78	1.07
1:H:2957:MET:HG3	1:K:4145:MET:O	1.53	1.07
1:A:300:GLY:N	1:L:4607:LYS:C	2.04	1.07
1:B:435:PHE:O	2:D:1191:VAL:N	1.85	1.07
1:C:1023:LEU:HD12	1:E:1770:LYS:O	1.54	1.07
1:C:1028:LYS:HE3	1:E:1781:GLN:H	1.14	1.07
2:D:1208:LEU:CG	1:J:3555:GLY:O	2.02	1.07
1:F:2153:MET:H	1:I:3355:VAL:HG12	1.04	1.07
1:F:2169:ALA:HB3	1:I:3339:GLY:O	0.90	1.07
1:F:2195:ILE:CG1	1:I:3414:LEU:HD22	1.84	1.07
1:F:2208:ALA:HB2	1:I:3378:LYS:NZ	1.68	1.07
1:F:2231:LYS:HD3	1:I:3386:LEU:CD1	1.84	1.07
1:A:32:MET:HG2	2:D:1532:TYR:HA	1.30	1.07
1:C:1023:LEU:CB	1:E:1771:VAL:CG1	2.33	1.07
2:D:1470:GLY:HA2	1:M:4738:PHE:CA	1.84	1.07
1:F:2157:LEU:HD11	1:I:3366:VAL:H	0.98	1.07
1:F:2175:VAL:CG1	1:I:3382:VAL:CG2	2.30	1.07
1:F:2233:VAL:C	1:I:3420:GLN:CD	2.13	1.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:2624:ARG:N	1:M:4999:LEU:HD23	1.69	1.07
1:A:222:ILE:HD11	1:A:276:PHE:HE1	1.15	1.07
1:C:1057:ILE:HD12	1:E:1833:ASP:HB2	1.14	1.07
2:D:1387:SER:O	1:F:1965:ASN:N	1.87	1.07
2:D:1391:THR:CB	1:H:2755:PRO:HG3	1.60	1.07
2:D:1448:GLU:HB3	1:K:3948:GLN:CB	1.85	1.07
1:H:2944:ILE:HD11	1:H:2998:PHE:HE1	1.14	1.07
1:C:1055:ASP:O	1:E:1832:ARG:N	1.88	1.07
2:D:1279:GLY:CA	1:E:1569:ASN:OD1	2.03	1.07
2:D:1437:SER:CA	1:H:2761:PHE:CD1	2.31	1.07
2:D:1474:GLY:CA	1:M:4732:PRO:HB3	1.84	1.07
1:E:1756:ILE:HD11	1:E:1810:PHE:HE1	1.14	1.07
1:G:2548:ILE:HD11	1:G:2602:PHE:HE1	1.15	1.07
1:A:28:ASN:HB3	2:D:1458:GLY:HA3	1.32	1.06
1:B:431:ASN:HB2	2:D:1197:ASN:ND2	1.68	1.06
1:C:1025:LYS:HG2	1:E:1795:ALA:HB2	1.37	1.06
2:D:1468:SER:HA	1:K:3949:PHE:CE2	1.82	1.06
1:F:2175:VAL:HB	1:I:3363:VAL:H	0.94	1.06
1:F:2194:VAL:HG21	1:I:3365:GLN:O	0.89	1.06
1:F:2227:LEU:HD11	1:I:3338:LEU:O	1.50	1.06
1:C:1028:LYS:NZ	1:E:1757:MET:HB2	1.71	1.06
2:D:1389:LYS:CG	1:F:1961:ARG:H	1.68	1.06
1:F:2198:LEU:HG	1:I:3419:LYS:HB3	1.12	1.06
1:G:2626:GLY:HA3	1:M:5003:LYS:N	1.19	1.06
1:B:632:LYS:HG2	1:J:3749:MET:O	1.56	1.06
1:C:1019:LEU:HD23	1:E:1832:ARG:HD2	1.38	1.06
1:C:1028:LYS:NZ	1:E:1757:MET:CB	2.10	1.06
2:D:1436:GLY:CA	1:H:2761:PHE:CE1	2.39	1.06
1:F:2196:THR:HG22	1:I:3372:ALA:O	1.39	1.06
1:G:2588:GLY:HA3	1:M:4940:ASP:N	1.69	1.06
1:H:2985:ASP:HA	1:K:4209:ASP:OD1	1.54	1.06
1:C:1023:LEU:CD1	1:E:1771:VAL:HA	1.72	1.06
2:D:1260:TRP:HD1	1:I:3156:GLN:HB2	0.97	1.06
2:D:1389:LYS:HG3	1:F:1961:ARG:C	1.80	1.06
2:D:1448:GLU:CB	1:K:3948:GLN:CB	2.23	1.06
2:D:1508:LEU:H	1:K:3951:GLY:C	1.63	1.06
1:A:31:ARG:HG3	2:D:1493:TYR:CG	1.89	1.06
1:C:1055:ASP:C	1:E:1832:ARG:H	1.64	1.06
2:D:1247:GLN:HB3	1:I:3153:ASN:CB	1.84	1.06
2:D:1249:GLN:HG2	1:I:3154:PHE:HB3	1.29	1.06
2:D:1325:PHE:HB3	1:G:2358:MET:HE3	1.08	1.06

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:2179:LEU:N	1:I:3355:VAL:O	1.88	1.06
1:F:2237:LEU:CD2	1:I:3417:ASP:O	2.03	1.06
1:C:1090:ARG:HG2	1:E:1829:GLY:CA	1.86	1.05
1:F:2179:LEU:N	1:I:3355:VAL:C	2.14	1.05
1:M:4924:ILE:HD11	1:M:4978:PHE:HE1	1.14	1.05
2:D:1221:GLN:HE22	1:J:3553:PHE:HA	1.17	1.05
2:D:1404:ASP:O	1:F:1961:ARG:CA	2.04	1.05
2:D:1433:THR:CG2	1:M:4739:GLN:NE2	2.19	1.05
2:D:1440:TRP:HB3	1:M:4740:GLN:NE2	1.71	1.05
2:D:1446:ASN:CA	1:K:3949:PHE:CE2	2.36	1.05
2:D:1487:ASP:C	1:K:3941:ARG:HB3	1.79	1.05
2:D:1525:ILE:HD12	1:J:3552:GLN:OE1	1.55	1.05
1:F:2228:ARG:HD3	1:I:3397:LEU:HB2	1.32	1.05
1:A:35:ASN:H	2:D:1533:GLN:NE2	1.53	1.05
1:A:260:LYS:NZ	1:L:4547:ARG:HH12	1.52	1.05
2:D:1407:GLU:O	1:M:4741:PHE:CE1	2.08	1.05
1:F:2193:ASP:OD1	1:I:3361:ALA:HB1	1.55	1.05
1:F:2213:VAL:CG1	1:I:3419:LYS:CE	2.35	1.05
1:F:2233:VAL:O	1:I:3420:GLN:HG3	1.50	1.05
1:G:2624:ARG:CZ	1:M:4999:LEU:HD13	1.87	1.05
1:H:3021:ASP:N	1:K:4211:LYS:HD3	1.70	1.05
1:L:4528:ILE:HD11	1:L:4582:PHE:HE1	1.14	1.05
1:A:301:LYS:CE	1:L:4607:LYS:O	2.05	1.05
1:C:1023:LEU:HD21	1:E:1766:ALA:O	1.57	1.05
1:C:1028:LYS:CD	1:E:1756:ILE:CD1	2.35	1.05
1:C:1057:ILE:HD13	1:E:1833:ASP:HB3	1.32	1.05
1:C:1089:LEU:HD23	1:E:1836:GLN:HA	1.06	1.05
2:D:1389:LYS:NZ	1:F:1960:PRO:C	2.10	1.05
2:D:1390:ARG:H	1:F:1961:ARG:CB	1.69	1.05
1:F:2185:ALA:HB2	1:I:3358:GLN:N	1.70	1.05
1:F:2213:VAL:CG2	1:I:3416:ARG:CZ	2.32	1.05
1:A:31:ARG:CG	2:D:1493:TYR:N	2.15	1.04
1:A:35:ASN:N	2:D:1533:GLN:HE21	1.54	1.04
2:D:1217:VAL:HG11	1:J:3549:ASN:O	1.57	1.04
2:D:1463:LEU:HD21	1:K:3940:PRO:HB3	1.29	1.04
1:F:2213:VAL:HG11	1:I:3416:ARG:HB3	1.39	1.04
1:F:2227:LEU:HA	1:I:3338:LEU:HD23	1.06	1.04
1:A:299:ASP:O	1:L:4609:VAL:CG2	2.03	1.04
1:C:1025:LYS:HG2	1:E:1795:ALA:HB3	1.06	1.04
1:C:1056:VAL:HG12	1:E:1835:LYS:HE3	1.07	1.04
2:D:1387:SER:O	1:F:1965:ASN:HB2	1.57	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:2562:LYS:CA	1:M:4937:MET:HE3	1.84	1.04
1:A:301:LYS:CE	1:L:4602:LEU:N	2.20	1.04
1:C:825:PRO:O	2:D:1329:ASP:HB3	1.56	1.04
2:D:1384:ALA:HA	1:L:4344:GLN:NE2	1.71	1.04
2:D:1394:GLN:CB	1:H:2755:PRO:HD2	1.86	1.04
2:D:1439:GLY:HA3	1:M:4735:PRO:HD2	1.06	1.04
1:F:2208:ALA:CB	1:I:3378:LYS:NZ	2.19	1.04
1:F:2231:LYS:CE	1:I:3397:LEU:HA	1.87	1.04
1:A:297:LEU:HB3	1:L:4604:ARG:HD3	1.39	1.04
1:C:1089:LEU:HD11	1:E:1837:VAL:HG22	1.36	1.04
2:D:1423:ALA:O	1:K:3944:ARG:O	1.75	1.04
2:D:1470:GLY:HA3	1:M:4738:PHE:HB3	1.37	1.04
1:F:2196:THR:HG21	1:I:3372:ALA:CA	1.88	1.04
1:F:2228:ARG:NH1	1:I:3398:ARG:HB2	1.34	1.04
1:F:2230:GLY:HA2	1:I:3338:LEU:HD13	1.09	1.04
1:G:2567:ARG:HH21	1:M:5000:ARG:NH1	1.55	1.04
1:A:298:ARG:HB3	1:L:4602:LEU:C	1.82	1.04
1:B:634:ASP:OD2	1:J:3812:ARG:HA	1.25	1.04
2:D:1321:ASN:N	1:G:2364:GLN:HB2	1.65	1.04
2:D:1384:ALA:O	1:L:4343:GLN:CG	2.06	1.04
1:A:297:LEU:HB3	1:L:4604:ARG:CD	1.88	1.03
1:C:1028:LYS:HD3	1:E:1756:ILE:HD13	1.30	1.03
1:F:2177:GLN:H	1:I:3355:VAL:HG11	1.07	1.03
1:G:2627:LYS:O	1:M:5001:ASP:CA	2.02	1.03
1:A:31:ARG:CD	2:D:1491:THR:CG2	2.08	1.03
1:C:1055:ASP:HA	1:E:1830:LEU:O	1.56	1.03
2:D:1217:VAL:HG21	1:J:3548:ARG:HH21	0.90	1.03
2:D:1384:ALA:CA	1:L:4344:GLN:HE21	1.56	1.03
2:D:1390:ARG:N	1:F:1961:ARG:CB	2.21	1.03
1:F:2185:ALA:CB	1:I:3357:ALA:C	2.31	1.03
1:C:1023:LEU:CD2	1:E:1771:VAL:CG1	2.10	1.03
1:C:1028:LYS:CE	1:E:1781:GLN:O	2.06	1.03
2:D:1440:TRP:CZ3	1:H:2760:GLN:OE1	2.11	1.03
2:D:1463:LEU:CG	1:K:3942:MET:CE	2.28	1.03
2:D:1486:VAL:CA	1:K:3950:PHE:HD1	1.58	1.03
1:F:2178:VAL:N	1:I:3345:LEU:CD2	2.20	1.03
1:F:2179:LEU:CG	1:I:3355:VAL:C	2.25	1.03
1:F:2225:GLY:H	1:I:3421:VAL:HG23	1.23	1.03
1:H:3019:LEU:HD22	1:K:4208:ARG:HE	1.23	1.03
1:A:31:ARG:HB2	2:D:1493:TYR:CD1	1.92	1.03
1:A:33:PRO:HA	2:D:1532:TYR:CA	1.88	1.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:1384:ALA:C	1:L:4341:ASN:OD1	1.78	1.03
2:D:1452:GLN:HE21	1:K:3943:PRO:HD3	1.20	1.03
1:F:2190:LYS:HG2	1:I:3360:GLY:N	1.63	1.03
1:F:2233:VAL:O	1:I:3420:GLN:CD	2.01	1.03
1:A:31:ARG:HG2	2:D:1493:TYR:HA	1.37	1.03
2:D:1368:VAL:C	1:F:1965:ASN:CG	2.25	1.03
2:D:1408:THR:CB	1:L:4343:GLN:OE1	2.06	1.03
1:F:2228:ARG:NE	1:I:3397:LEU:CA	2.20	1.03
1:C:1089:LEU:CD2	1:E:1836:GLN:CA	2.20	1.02
2:D:1272:ASP:HB3	1:G:2358:MET:CB	1.88	1.02
1:F:2231:LYS:CA	1:I:3386:LEU:HG	1.88	1.02
1:B:430:ARG:NH1	2:D:1192:TYR:OH	1.92	1.02
1:F:2216:MET:SD	1:I:3419:LYS:NZ	2.33	1.02
1:G:2562:LYS:C	1:M:4937:MET:HE3	1.83	1.02
1:F:2177:GLN:OE1	1:I:3354:LYS:N	1.91	1.02
1:F:2194:VAL:HG11	1:I:3366:VAL:N	1.74	1.02
1:F:2226:LEU:HA	1:I:3414:LEU:HD21	1.40	1.02
1:G:2561:MET:HE3	1:M:4938:LYS:CE	1.87	1.02
1:H:2958:LYS:CB	1:K:4172:GLY:CA	2.37	1.02
1:A:235:MET:HE1	1:L:4541:MET:O	1.60	1.02
1:C:1023:LEU:HB3	1:E:1771:VAL:HG12	1.02	1.02
1:C:1025:LYS:HA	1:E:1795:ALA:HB1	1.13	1.02
1:C:1036:PHE:CE2	1:E:1797:ASP:HA	1.95	1.02
2:D:1482:ILE:HB	1:M:4738:PHE:CE2	1.94	1.02
1:F:2203:ILE:C	1:I:3378:LYS:CG	2.33	1.02
1:F:2225:GLY:O	1:I:3377:ILE:CG1	2.06	1.02
1:F:2230:GLY:HA2	1:I:3338:LEU:CD2	1.88	1.02
1:F:2231:LYS:HD3	1:I:3386:LEU:HD12	1.39	1.02
1:G:2626:GLY:HA2	1:M:5001:ASP:H	1.20	1.02
1:A:260:LYS:CA	1:L:4544:ASP:HB2	1.48	1.01
1:C:1056:VAL:HG12	1:E:1835:LYS:CE	1.81	1.01
2:D:1389:LYS:HE2	1:F:1960:PRO:CA	1.90	1.01
1:F:2227:LEU:HD12	1:I:3372:ALA:HB1	1.40	1.01
1:F:2228:ARG:HD2	1:I:3394:PHE:CA	1.83	1.01
1:A:260:LYS:HZ1	1:L:4547:ARG:NH1	1.52	1.01
1:A:301:LYS:CD	1:L:4607:LYS:O	2.07	1.01
1:C:1089:LEU:N	1:E:1834:GLY:O	1.94	1.01
2:D:1247:GLN:HB3	1:I:3153:ASN:CG	1.85	1.01
1:F:2224:LEU:O	1:I:3412:LEU:O	1.76	1.01
1:G:2557:LEU:CB	1:M:4938:LYS:HE3	1.89	1.01
1:H:2957:MET:CE	1:K:4146:LYS:HB2	1.86	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:1315:GLY:CA	1:E:1570:PHE:CZ	2.42	1.01
2:D:1395:ASN:N	1:H:2754:MET:O	1.93	1.01
2:D:1486:VAL:HA	1:K:3950:PHE:HD1	1.26	1.01
1:F:2150:LEU:HD13	1:I:3417:ASP:C	1.85	1.01
1:F:2196:THR:CB	1:I:3372:ALA:O	2.08	1.01
1:A:31:ARG:CG	2:D:1493:TYR:CA	2.38	1.01
1:A:263:ASP:CA	1:L:4604:ARG:CG	2.05	1.01
1:A:300:GLY:N	1:L:4607:LYS:HB3	1.54	1.01
1:B:431:ASN:O	2:D:1198:LYS:CG	1.88	1.01
1:C:1028:LYS:NZ	1:E:1757:MET:H	1.42	1.01
1:C:1088:LEU:HA	1:E:1834:GLY:O	1.59	1.01
2:D:1260:TRP:CG	1:I:3153:ASN:O	2.09	1.01
2:D:1336:GLN:HG2	1:F:1967:GLN:HB2	1.42	1.01
2:D:1340:LYS:NZ	1:F:1971:GLY:HA2	1.74	1.01
2:D:1446:ASN:ND2	1:M:4739:GLN:CB	2.23	1.01
2:D:1506:ILE:HD11	1:K:3941:ARG:CZ	1.91	1.01
1:F:2231:LYS:CE	1:I:3397:LEU:O	2.08	1.01
1:C:1023:LEU:CD1	1:E:1771:VAL:HG13	1.87	1.01
1:C:1055:ASP:O	1:E:1834:GLY:N	1.92	1.01
1:C:1089:LEU:H	1:E:1834:GLY:C	1.68	1.01
2:D:1385:ILE:HB	1:L:4341:ASN:OD1	1.58	1.01
2:D:1440:TRP:CH2	1:H:2760:GLN:OE1	2.14	1.01
2:D:1260:TRP:O	1:I:3153:ASN:CB	2.09	1.00
2:D:1463:LEU:CD2	1:K:3940:PRO:CA	2.30	1.00
1:F:2209:LEU:HD21	1:I:3416:ARG:HB2	1.40	1.00
1:A:32:MET:CG	2:D:1532:TYR:CA	2.36	1.00
1:A:260:LYS:HA	1:L:4544:ASP:CB	1.79	1.00
1:A:301:LYS:HE2	1:L:4602:LEU:N	1.69	1.00
1:C:1023:LEU:CD1	1:E:1770:LYS:O	2.07	1.00
2:D:1235:THR:CG2	1:E:1764:GLU:OE1	2.09	1.00
2:D:1447:PHE:O	1:K:3949:PHE:N	1.94	1.00
2:D:1462:SER:OG	1:K:3943:PRO:HD3	1.62	1.00
2:D:1463:LEU:HD21	1:K:3940:PRO:CA	1.90	1.00
2:D:1482:ILE:HB	1:M:4738:PHE:HE2	1.26	1.00
1:F:2191:ALA:H	1:I:3345:LEU:HG	1.26	1.00
1:H:2957:MET:CG	1:K:4147:VAL:HG13	1.90	1.00
1:B:428:MET:HE2	1:B:430:ARG:HD3	1.44	1.00
1:C:1023:LEU:CD2	1:E:1766:ALA:HA	1.91	1.00
2:D:1315:GLY:CA	1:E:1570:PHE:HZ	1.72	1.00
2:D:1391:THR:OG1	1:H:2755:PRO:HG3	1.25	1.00
1:G:2624:ARG:HE	1:M:4999:LEU:HD11	1.21	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:2953:LEU:HA	1:K:4145:MET:C	1.83	1.00
1:C:1027:MET:HE2	1:E:1771:VAL:HG12	1.03	1.00
2:D:1217:VAL:HG22	1:J:3548:ARG:HH21	1.24	1.00
2:D:1335:VAL:HG11	1:F:1966:PHE:HZ	0.85	1.00
1:A:298:ARG:N	1:L:4607:LYS:CG	2.25	1.00
2:D:1333:PHE:CD1	1:G:2364:GLN:HG3	1.95	1.00
1:H:3019:LEU:HD23	1:K:4211:LYS:HE2	1.04	1.00
1:K:4081:ASN:HB2	1:M:4704:MET:HE1	1.44	1.00
1:C:1089:LEU:HB3	1:E:1835:LYS:HB3	1.41	1.00
2:D:1316:PHE:HB2	1:E:1571:GLN:OE1	1.62	1.00
2:D:1440:TRP:HZ2	1:H:2760:GLN:HE22	1.07	1.00
1:E:1705:ASN:HB2	1:G:2328:MET:HE1	1.44	1.00
1:H:2754:MET:HE2	1:H:2756:ARG:HD3	1.44	1.00
1:A:32:MET:HG2	2:D:1532:TYR:CA	1.88	1.00
1:C:1028:LYS:CD	1:E:1756:ILE:HD13	1.92	1.00
2:D:1363:GLN:OE1	1:H:2755:PRO:CB	2.10	1.00
1:C:1030:ASP:CB	1:E:1830:LEU:HD11	1.90	0.99
2:D:1469:LYS:N	1:M:4738:PHE:CD1	2.19	0.99
1:F:2175:VAL:N	1:I:3380:GLY:H	1.57	0.99
1:F:2196:THR:HG23	1:I:3372:ALA:C	1.64	0.99
1:L:4628:ILE:HG23	1:L:4629:PHE:H	1.26	0.99
1:A:35:ASN:N	2:D:1533:GLN:NE2	2.10	0.99
1:C:1025:LYS:HA	1:E:1795:ALA:CA	1.92	0.99
1:E:1536:MET:HE1	1:F:2101:ASN:HB2	1.44	0.99
1:F:2171:ARG:HH21	1:I:3372:ALA:HB3	1.25	0.99
1:F:2192:GLY:CA	1:I:3343:THR:H	1.75	0.99
1:F:2192:GLY:HA3	1:I:3343:THR:N	1.77	0.99
2:D:1367:GLY:CA	1:F:1968:GLN:HB3	1.92	0.99
1:F:2189:ILE:HG13	1:I:3383:ILE:C	1.84	0.99
1:F:2231:LYS:HA	1:I:3386:LEU:CG	1.91	0.99
1:H:2958:LYS:CE	1:K:4171:ALA:HB1	1.93	0.99
1:H:2983:ALA:O	1:K:4148:ASP:HB2	1.61	0.99
1:I:3120:MET:HE1	1:J:3685:ASN:HB2	1.44	0.99
1:C:1114:ILE:HG23	1:C:1115:PHE:H	1.26	0.99
1:C:1030:ASP:HB2	1:E:1830:LEU:HD11	1.44	0.99
2:D:1335:VAL:HG12	1:F:1966:PHE:CE1	1.97	0.99
2:D:1368:VAL:CA	1:F:1965:ASN:OD1	2.03	0.99
2:D:1425:GLN:C	1:K:3947:GLN:HB3	1.81	0.99
1:E:1566:MET:HE2	1:E:1568:ARG:HD3	1.44	0.99
1:F:2178:VAL:HG11	1:I:3359:ARG:H	1.16	0.99
1:A:34:ARG:N	2:D:1533:GLN:N	1.97	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:2893:ASN:HB2	1:J:3516:MET:HE1	1.44	0.99
1:C:1092:GLY:N	1:E:1836:GLN:HG2	1.10	0.99
2:D:1260:TRP:HH2	1:I:3154:PHE:CE1	1.81	0.99
1:F:2227:LEU:HG	1:I:3338:LEU:O	1.54	0.99
1:F:2227:LEU:CA	1:I:3338:LEU:HD23	1.91	0.99
1:K:3912:MET:HE1	1:L:4477:ASN:HB2	1.44	0.99
1:K:3942:MET:HE2	1:K:3944:ARG:HD3	1.44	0.99
1:A:264:VAL:N	1:L:4604:ARG:HG2	1.75	0.99
1:B:398:MET:HE1	1:C:963:ASN:HB2	1.44	0.99
1:C:824:MET:HE2	1:C:826:ARG:HD3	1.44	0.99
1:C:825:PRO:C	2:D:1329:ASP:HB3	1.58	0.99
1:C:1037:VAL:O	1:E:1831:LEU:CD2	2.11	0.99
1:F:2230:GLY:CA	1:I:3338:LEU:CD2	2.40	0.99
2:D:1214:ASN:ND2	1:J:3548:ARG:HB3	1.76	0.99
2:D:1365:GLY:HA2	1:F:1970:PHE:HB2	1.02	0.99
1:F:2168:ASP:HB3	1:I:3367:LEU:CD1	1.93	0.99
1:F:2210:ARG:N	1:I:3416:ARG:CZ	1.96	0.99
1:H:2958:LYS:O	1:K:4172:GLY:HA3	0.81	0.99
2:D:1369:GLY:C	1:F:1967:GLN:HE21	1.66	0.99
2:D:1468:SER:CA	1:K:3949:PHE:CZ	2.45	0.99
1:F:2196:THR:CG2	1:I:3372:ALA:O	0.69	0.99
1:H:2957:MET:HE2	1:K:4146:LYS:CB	1.80	0.99
2:D:1277:ASP:HB3	1:E:1573:PHE:CZ	1.97	0.98
1:F:1932:MET:HE1	1:G:2497:ASN:HB2	1.44	0.98
1:J:3546:MET:HE2	1:J:3548:ARG:HD3	1.44	0.98
1:C:1090:ARG:HG2	1:E:1829:GLY:HA3	1.43	0.98
2:D:1214:ASN:CB	1:J:3548:ARG:CD	2.38	0.98
2:D:1390:ARG:H	1:F:1961:ARG:HB3	0.83	0.98
2:D:1466:LEU:H	1:K:3950:PHE:CB	1.76	0.98
2:D:1505:LYS:NZ	1:J:3552:GLN:HE22	1.61	0.98
1:F:2157:LEU:CD1	1:I:3366:VAL:N	2.25	0.98
1:G:2624:ARG:NE	1:M:4999:LEU:HD11	1.72	0.98
1:H:3021:ASP:OD1	1:K:4211:LYS:O	1.80	0.98
1:A:322:ILE:HG23	1:A:323:PHE:H	1.26	0.98
1:B:428:MET:HE2	1:B:430:ARG:CD	1.93	0.98
1:B:693:LEU:O	1:J:3813:ASP:HB3	1.61	0.98
2:D:1218:ASP:OD1	1:J:3554:PHE:CE1	2.15	0.98
1:K:4232:ILE:HG23	1:K:4233:PHE:H	1.26	0.98
1:A:298:ARG:H	1:L:4607:LYS:HB2	1.26	0.98
1:B:431:ASN:O	2:D:1198:LYS:HG3	1.36	0.98
1:C:1090:ARG:CG	1:E:1829:GLY:HA3	1.76	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:1389:LYS:HG3	1:F:1961:ARG:CA	1.92	0.98
2:D:1438:LEU:HA	1:H:2763:GLY:N	1.78	0.98
1:F:2227:LEU:HD12	1:I:3372:ALA:HB3	1.36	0.98
1:H:3019:LEU:HD22	1:K:4208:ARG:NE	1.76	0.98
1:L:4338:MET:HE2	1:L:4340:ARG:CD	1.94	0.98
1:A:2:MET:HE1	1:B:567:ASN:HB2	1.44	0.98
1:F:2190:LYS:HG2	1:I:3360:GLY:H	1.18	0.98
1:G:2648:ILE:HG23	1:G:2649:PHE:H	1.26	0.98
1:H:3021:ASP:CA	1:K:4211:LYS:CD	2.31	0.98
1:L:4362:ILE:HG13	1:L:4421:MET:HE2	1.46	0.98
1:A:31:ARG:CD	2:D:1492:TYR:O	2.05	0.98
2:D:1426:TYR:H	1:L:4345:PHE:HE2	1.06	0.98
1:F:2150:LEU:HD13	1:I:3418:GLY:CA	1.93	0.98
1:F:2213:VAL:HG22	1:I:3416:ARG:HH21	1.22	0.98
1:F:2213:VAL:HG12	1:I:3419:LYS:CE	1.91	0.98
1:C:824:MET:HE2	1:C:826:ARG:CD	1.93	0.98
2:D:1221:GLN:HE22	1:J:3553:PHE:CB	1.77	0.98
2:D:1298:PHE:CE1	1:J:3552:GLN:OE1	2.16	0.98
2:D:1389:LYS:CG	1:F:1961:ARG:CB	2.25	0.98
2:D:1433:THR:CG2	1:M:4739:GLN:HE21	1.74	0.98
1:A:301:LYS:NZ	1:L:4601:GLY:C	2.22	0.98
1:B:631:MET:O	1:J:3751:VAL:HA	1.62	0.98
1:B:631:MET:C	1:J:3751:VAL:HA	1.88	0.98
1:C:1023:LEU:HA	1:E:1778:PHE:CE2	1.97	0.98
1:C:1151:GLY:HA3	1:C:1177:ASN:HB2	1.46	0.98
2:D:1438:LEU:CA	1:H:2762:PHE:HA	1.86	0.98
2:D:1442:ASN:O	1:M:4740:GLN:O	1.82	0.98
1:A:260:LYS:HB3	1:L:4544:ASP:HB2	1.31	0.98
2:D:1221:GLN:NE2	1:J:3553:PHE:CB	2.27	0.98
2:D:1436:GLY:HA2	1:H:2761:PHE:CE1	1.95	0.98
2:D:1447:PHE:HE1	1:K:3946:PHE:HB2	1.23	0.98
1:F:2289:GLY:HA3	1:F:2315:ASN:HB2	1.46	0.98
1:G:2624:ARG:C	1:M:4999:LEU:CD2	2.36	0.98
1:H:2754:MET:HE2	1:H:2756:ARG:CD	1.94	0.98
2:D:1320:ARG:HB2	1:G:2363:GLN:HG3	1.43	0.97
1:K:3942:MET:HE2	1:K:3944:ARG:CD	1.94	0.97
1:C:1035:ALA:CB	1:E:1833:ASP:OD2	2.12	0.97
2:D:1451:ALA:HB3	1:K:3942:MET:HG3	1.10	0.97
1:F:1938:MET:HE1	1:F:2058:VAL:HG11	1.47	0.97
1:F:2228:ARG:NH2	1:I:3395:ALA:O	1.97	0.97
1:G:2382:ILE:HG13	1:G:2441:MET:HE2	1.46	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:4758:ILE:HG13	1:M:4817:MET:HE2	1.46	0.97
1:A:171:ASN:HB2	1:C:794:MET:HE1	1.44	0.97
1:F:1962:MET:HE2	1:F:1964:ARG:HD3	1.44	0.97
1:J:3836:ILE:HG23	1:J:3837:PHE:H	1.26	0.97
1:L:4314:MET:HE1	1:L:4434:VAL:HG11	1.47	0.97
2:D:1210:TYR:O	1:J:3554:PHE:CE1	2.17	0.97
1:F:2154:GLY:C	1:I:3353:MET:SD	2.48	0.97
1:F:2178:VAL:HG12	1:I:3345:LEU:CG	1.93	0.97
2:D:1447:PHE:CZ	1:K:3946:PHE:HB2	1.99	0.97
1:F:2195:ILE:CB	1:I:3414:LEU:HD13	1.94	0.97
1:G:2358:MET:HE2	1:G:2360:ARG:CD	1.94	0.97
1:H:2724:MET:HE1	1:I:3289:ASN:HB2	1.44	0.97
1:H:3044:ILE:HG23	1:H:3045:PHE:H	1.26	0.97
1:J:3546:MET:HE2	1:J:3548:ARG:CD	1.94	0.97
1:J:3873:GLY:HA3	1:J:3899:ASN:HB2	1.46	0.97
1:B:436:PHE:C	2:D:1191:VAL:CG2	2.34	0.97
1:B:452:ILE:HG13	1:B:511:MET:HE2	1.46	0.97
1:I:3477:GLY:HA3	1:I:3503:ASN:HB2	1.46	0.97
1:L:4665:GLY:HA3	1:L:4691:ASN:HB2	1.46	0.97
1:M:5024:ILE:HG23	1:M:5025:PHE:H	1.26	0.97
1:B:431:ASN:C	2:D:1198:LYS:HG3	1.75	0.97
2:D:1214:ASN:HB3	1:J:3548:ARG:HE	1.17	0.97
2:D:1276:PHE:CB	1:G:2362:PHE:HD1	1.46	0.97
2:D:1318:THR:O	1:G:2363:GLN:HB2	1.64	0.97
2:D:1446:ASN:CB	1:K:3949:PHE:HE2	1.77	0.97
1:F:2157:LEU:HD11	1:I:3366:VAL:N	1.79	0.97
1:F:2228:ARG:CB	1:I:3397:LEU:CD1	2.22	0.97
1:G:2557:LEU:HD12	1:M:4938:LYS:HZ2	1.09	0.97
1:H:2778:ILE:HG13	1:H:2837:MET:HE2	1.46	0.97
1:I:3150:MET:HE2	1:I:3152:ARG:HD3	1.44	0.97
1:L:4308:MET:HE1	1:M:4873:ASN:HB2	1.44	0.97
2:D:1221:GLN:CD	1:J:3553:PHE:CB	2.35	0.97
2:D:1398:ALA:N	1:H:2753:ARG:CG	1.94	0.97
1:F:2153:MET:N	1:I:3355:VAL:HG12	1.79	0.97
1:F:2169:ALA:HB1	1:I:3370:SER:CB	1.95	0.97
1:G:2685:GLY:HA3	1:G:2711:ASN:HB2	1.46	0.97
1:H:2957:MET:O	1:K:4172:GLY:HA2	1.64	0.97
1:H:3019:LEU:HD21	1:K:4211:LYS:HE3	0.99	0.97
1:I:3174:ILE:HG13	1:I:3233:MET:HE2	1.46	0.97
1:C:1028:LYS:CE	1:E:1757:MET:H	1.71	0.97
2:D:1322:THR:HG23	1:G:2361:ASN:HD22	1.11	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:1407:GLU:C	1:M:4741:PHE:HE1	1.70	0.97
1:F:1962:MET:HE2	1:F:1964:ARG:CD	1.94	0.97
1:F:2203:ILE:HG22	1:I:3378:LYS:HB2	1.47	0.97
1:H:2730:MET:HE1	1:H:2850:VAL:HG11	1.47	0.97
2:D:1523:ASP:HA	1:J:3546:MET:CB	1.76	0.96
1:F:2178:VAL:CG1	1:I:3358:GLN:C	2.38	0.96
1:F:2178:VAL:H	1:I:3345:LEU:HD22	0.86	0.96
1:F:2196:THR:OG1	1:I:3372:ALA:HB1	1.65	0.96
1:L:4338:MET:HE2	1:L:4340:ARG:HD3	1.44	0.96
1:M:5061:GLY:HA3	1:M:5087:ASN:HB2	1.46	0.96
2:D:1260:TRP:CD1	1:I:3156:GLN:HB3	1.62	0.96
2:D:1398:ALA:H	1:H:2753:ARG:HG2	1.27	0.96
1:E:1542:MET:HE1	1:E:1662:VAL:HG11	1.47	0.96
1:K:4269:GLY:HA3	1:K:4295:ASN:HB2	1.46	0.96
2:D:1247:GLN:CB	1:I:3153:ASN:CB	2.40	0.96
2:D:1469:LYS:C	1:M:4738:PHE:HB2	1.70	0.96
1:I:3150:MET:HE2	1:I:3152:ARG:CD	1.93	0.96
1:A:8:MET:HE1	1:A:128:VAL:HG11	1.47	0.96
1:A:301:LYS:HZ3	1:L:4601:GLY:CA	1.78	0.96
2:D:1486:VAL:CA	1:K:3950:PHE:CD1	2.49	0.96
1:E:1893:GLY:HA3	1:E:1919:ASN:HB2	1.46	0.96
1:B:404:MET:HE1	1:B:524:VAL:HG11	1.47	0.96
2:D:1309:MET:CG	1:F:1968:GLN:HE21	1.77	0.96
2:D:1309:MET:HG3	1:F:1968:GLN:NE2	1.78	0.96
2:D:1404:ASP:C	1:F:1962:MET:H	1.73	0.96
2:D:1451:ALA:O	1:K:3943:PRO:CA	2.10	0.96
1:F:2178:VAL:O	1:I:3358:GLN:CD	2.08	0.96
1:A:235:MET:CE	1:L:4541:MET:O	2.12	0.96
1:B:694:ARG:HH12	1:J:3811:LEU:HD11	1.31	0.96
1:C:1032:GLN:O	1:E:1794:LYS:HE3	1.65	0.96
1:E:1566:MET:HE2	1:E:1568:ARG:CD	1.94	0.96
1:F:2252:ILE:HG23	1:F:2253:PHE:H	1.26	0.96
1:G:2562:LYS:O	1:M:4946:PHE:CZ	2.17	0.96
1:I:3440:ILE:HG23	1:I:3441:PHE:H	1.26	0.96
1:A:297:LEU:HB3	1:L:4604:ARG:NE	1.81	0.96
2:D:1275:SER:N	1:G:2362:PHE:H	1.58	0.96
1:F:2196:THR:HG22	1:I:3376:GLY:H	1.30	0.96
1:F:2228:ARG:NH1	1:I:3398:ARG:CB	2.28	0.96
1:G:2557:LEU:CB	1:M:4938:LYS:CE	2.41	0.96
1:I:3126:MET:HE1	1:I:3246:VAL:HG11	1.47	0.96
1:E:1856:ILE:HG23	1:E:1857:PHE:H	1.26	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:2224:LEU:CD2	1:I:3419:LYS:CB	1.93	0.96
1:F:2230:GLY:HA3	1:I:3410:LEU:HD11	1.44	0.96
1:A:359:GLY:HA3	1:A:385:ASN:HB2	1.46	0.96
2:D:1325:PHE:CA	1:G:2359:PRO:O	2.13	0.96
1:A:260:LYS:CA	1:L:4544:ASP:HB3	1.86	0.96
2:D:1260:TRP:CD2	1:I:3153:ASN:O	2.19	0.96
2:D:1389:LYS:CG	1:F:1961:ARG:CA	2.44	0.96
2:D:1437:SER:CA	1:H:2761:PHE:HD1	1.66	0.96
1:G:2557:LEU:HD13	1:M:4938:LYS:HZ1	0.80	0.96
1:A:295:GLY:C	1:L:4607:LYS:NZ	2.23	0.95
2:D:1358:ARG:HB2	1:H:2758:PHE:HE2	1.22	0.95
1:F:2177:GLN:CB	1:I:3350:ALA:CB	2.21	0.95
1:F:2178:VAL:C	1:I:3358:GLN:HG3	1.65	0.95
2:D:1221:GLN:NE2	1:J:3553:PHE:HA	1.72	0.95
2:D:1446:ASN:ND2	1:M:4739:GLN:HB2	1.81	0.95
1:F:2171:ARG:NH1	1:I:3370:SER:H	1.62	0.95
1:H:2958:LYS:HB3	1:K:4171:ALA:C	1.88	0.95
1:C:1036:PHE:HD2	1:E:1832:ARG:CB	1.80	0.95
2:D:1468:SER:CA	1:K:3949:PHE:CE2	2.49	0.95
1:F:1986:ILE:HG13	1:F:2045:MET:HE2	1.46	0.95
1:F:2203:ILE:HG22	1:I:3378:LYS:HG3	1.43	0.95
1:B:718:ILE:HG23	1:B:719:PHE:H	1.26	0.95
1:F:2178:VAL:CA	1:I:3358:GLN:HG2	1.95	0.95
1:F:2231:LYS:HE3	1:I:3397:LEU:HA	0.98	0.95
1:J:3522:MET:HE1	1:J:3642:VAL:HG11	1.47	0.95
1:A:56:ILE:HG13	1:A:115:MET:HE2	1.46	0.95
1:C:825:PRO:O	2:D:1329:ASP:CB	2.14	0.95
1:F:2171:ARG:HH11	1:I:3373:ALA:HB3	1.32	0.95
1:F:2213:VAL:HG12	1:I:3419:LYS:HE2	0.96	0.95
1:A:28:ASN:CB	2:D:1458:GLY:HA3	1.97	0.95
2:D:1388:SER:HB3	1:F:1968:GLN:OE1	1.66	0.95
1:H:2960:ASP:HB2	1:K:4208:ARG:HD3	1.45	0.95
1:K:3918:MET:HE1	1:K:4038:VAL:HG11	1.47	0.95
1:K:3966:ILE:HG13	1:K:4025:MET:HE2	1.46	0.95
2:D:1260:TRP:NE1	1:I:3155:GLN:CG	2.29	0.95
2:D:1320:ARG:CA	1:G:2364:GLN:CB	2.41	0.95
2:D:1389:LYS:CG	1:F:1961:ARG:N	2.29	0.95
2:D:1474:GLY:HA2	1:M:4732:PRO:HB3	0.95	0.95
1:F:2167:VAL:O	1:I:3341:MET:CE	2.14	0.95
1:F:2174:PHE:O	1:I:3380:GLY:N	1.98	0.95
1:G:2358:MET:HE2	1:G:2360:ARG:HD3	1.44	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:1358:ARG:HB2	1:H:2758:PHE:CD2	2.01	0.95
2:D:1408:THR:HA	1:M:4741:PHE:HZ	1.16	0.95
1:F:2196:THR:HG22	1:I:3376:GLY:N	1.81	0.95
1:G:2627:LYS:HE3	1:M:4999:LEU:CD1	1.96	0.95
1:A:298:ARG:H	1:L:4607:LYS:CB	1.77	0.95
1:C:1028:LYS:HG2	1:E:1780:SER:N	1.82	0.95
1:F:2178:VAL:HG13	1:I:3358:GLN:C	1.92	0.95
1:F:2210:ARG:CA	1:I:3416:ARG:HH12	1.58	0.95
1:F:2224:LEU:CD1	1:I:3414:LEU:CA	2.43	0.95
1:H:3081:GLY:HA3	1:H:3107:ASN:HB2	1.46	0.95
1:C:1035:ALA:HB3	1:E:1833:ASP:OD2	1.65	0.94
2:D:1246:TYR:CD2	1:I:3152:ARG:CA	2.50	0.94
2:D:1247:GLN:CB	1:I:3153:ASN:CG	2.38	0.94
2:D:1289:THR:CG2	1:K:3947:GLN:OE1	2.14	0.94
2:D:1389:LYS:CE	1:F:1961:ARG:N	2.22	0.94
2:D:1402:ASN:HB2	1:M:4733:ARG:HD2	1.49	0.94
2:D:1404:ASP:O	1:F:1961:ARG:HA	1.66	0.94
2:D:1404:ASP:CG	1:F:1960:PRO:O	2.09	0.94
2:D:1437:SER:H	1:H:2761:PHE:HD1	1.09	0.94
1:F:2231:LYS:N	1:I:3338:LEU:HD22	1.80	0.94
1:H:3019:LEU:CG	1:K:4211:LYS:HZ1	1.71	0.94
2:D:1266:ALA:HB1	1:E:1574:PHE:H	1.24	0.94
2:D:1426:TYR:N	1:K:3946:PHE:HE1	1.64	0.94
2:D:1463:LEU:HG	1:K:3944:ARG:HH11	1.29	0.94
1:G:2561:MET:HB3	1:M:4934:ALA:O	1.03	0.94
1:B:435:PHE:HA	2:D:1192:TYR:O	1.66	0.94
1:C:1090:ARG:CG	1:E:1829:GLY:C	2.38	0.94
1:E:1590:ILE:HG13	1:E:1649:MET:HE2	1.46	0.94
1:F:2157:LEU:CD1	1:I:3366:VAL:HG12	1.96	0.94
1:F:2185:ALA:H	1:I:3357:ALA:HB1	0.78	0.94
1:F:2194:VAL:O	1:I:3377:ILE:CG2	2.14	0.94
1:C:848:ILE:HG13	1:C:907:MET:HE2	1.46	0.94
2:D:1321:ASN:HA	1:G:2361:ASN:HB3	1.16	0.94
2:D:1368:VAL:HG12	1:F:1964:ARG:C	1.92	0.94
1:F:2195:ILE:HG13	1:I:3414:LEU:HD22	0.98	0.94
1:F:2224:LEU:CD1	1:I:3414:LEU:N	2.29	0.94
1:J:3570:ILE:HG13	1:J:3629:MET:HE2	1.46	0.94
1:F:2231:LYS:HA	1:I:3386:LEU:HG	0.96	0.94
1:A:31:ARG:HD2	2:D:1491:THR:HG23	1.46	0.94
1:B:630:ALA:HB1	1:J:3750:LYS:HE3	1.46	0.94
1:F:2179:LEU:HG	1:I:3355:VAL:C	1.54	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:2193:ASP:HB2	1:I:3383:ILE:HD13	1.47	0.94
1:F:2232:GLN:HE21	1:I:3412:LEU:HD12	1.27	0.94
1:B:436:PHE:HA	2:D:1199:LEU:HB3	1.48	0.94
1:C:1023:LEU:CA	1:E:1778:PHE:CE2	2.50	0.94
2:D:1306:ASP:HB2	1:H:2759:GLN:NE2	1.82	0.94
2:D:1446:ASN:HA	1:K:3949:PHE:CD2	2.02	0.94
1:F:2179:LEU:H	1:I:3356:ASP:C	1.63	0.94
1:C:800:MET:HE1	1:C:920:VAL:HG11	1.47	0.94
2:D:1482:ILE:HD12	1:M:4738:PHE:CD2	2.03	0.94
1:G:2564:ASP:HB3	1:M:4963:ALA:O	1.14	0.94
1:H:3019:LEU:HG	1:K:4211:LYS:CE	1.92	0.94
1:A:34:ARG:H	2:D:1533:GLN:N	1.27	0.94
1:A:301:LYS:NZ	1:L:4601:GLY:CA	2.31	0.94
1:B:428:MET:CE	2:D:1195:ASP:CB	2.45	0.94
2:D:1505:LYS:CE	1:J:3552:GLN:HE22	1.81	0.94
1:F:2178:VAL:H	1:I:3345:LEU:CD2	1.79	0.94
1:F:2237:LEU:HD23	1:I:3417:ASP:CA	1.97	0.94
1:F:2237:LEU:HD23	1:I:3417:ASP:CB	1.98	0.94
1:B:434:GLN:HE21	2:D:1231:GLU:N	1.64	0.93
1:B:437:GLY:O	2:D:1191:VAL:HG21	1.67	0.93
2:D:1425:GLN:O	1:K:3947:GLN:CA	2.16	0.93
1:F:2190:LYS:HZ1	1:I:3392:SER:HB2	1.33	0.93
1:A:31:ARG:N	2:D:1493:TYR:HA	1.82	0.93
1:A:34:ARG:H	2:D:1533:GLN:H	1.14	0.93
1:B:693:LEU:C	1:J:3813:ASP:HB3	1.92	0.93
1:H:2960:ASP:N	1:K:4208:ARG:HD2	1.82	0.93
1:A:298:ARG:O	1:L:4569:ASP:HB3	1.67	0.93
2:D:1369:GLY:CA	1:F:1967:GLN:HE21	1.82	0.93
2:D:1389:LYS:CG	1:F:1961:ARG:O	2.16	0.93
2:D:1506:ILE:CD1	1:K:3941:ARG:CZ	2.44	0.93
1:I:3450:ASP:HB3	1:I:3484:LYS:HB2	1.51	0.93
1:A:297:LEU:C	1:L:4607:LYS:CG	2.33	0.93
1:A:298:ARG:H	1:L:4607:LYS:CG	1.81	0.93
1:A:301:LYS:NZ	1:L:4602:LEU:N	2.16	0.93
1:F:2177:GLN:HG3	1:I:3355:VAL:CG1	1.87	0.93
1:G:2557:LEU:HB3	1:M:4938:LYS:HE3	0.93	0.93
1:A:36:PHE:CZ	2:D:1200:ASP:OD2	2.21	0.93
1:B:693:LEU:O	1:J:3813:ASP:CB	2.16	0.93
2:D:1394:GLN:CG	1:H:2755:PRO:HD2	1.97	0.93
1:E:1866:ASP:HB3	1:E:1900:LYS:HB2	1.51	0.93
1:A:234:ALA:O	1:L:4537:LEU:HD22	1.69	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:1267:GLY:N	1:E:1573:PHE:C	2.16	0.93
2:D:1320:ARG:CG	1:G:2363:GLN:HG3	1.98	0.93
2:D:1433:THR:H	1:M:4740:GLN:HB2	1.33	0.93
1:F:2190:LYS:N	1:I:3382:VAL:HG12	1.81	0.93
1:B:755:GLY:HA3	1:B:781:ASN:HB2	1.46	0.93
2:D:1244:TRP:CH2	1:I:3150:MET:CA	2.46	0.93
2:D:1433:THR:CG2	1:M:4739:GLN:CD	2.37	0.93
1:F:2193:ASP:OD2	1:I:3361:ALA:CA	2.15	0.93
1:M:5034:ASP:HB3	1:M:5068:LYS:HB2	1.51	0.93
1:A:298:ARG:N	1:L:4607:LYS:HG3	1.82	0.93
1:B:693:LEU:O	1:J:3813:ASP:CA	2.16	0.93
1:C:1022:GLU:O	1:E:1778:PHE:HZ	1.51	0.93
1:F:2171:ARG:NH1	1:I:3373:ALA:HB3	1.83	0.93
1:A:332:ASP:HB3	1:A:366:LYS:HB2	1.51	0.93
2:D:1260:TRP:HD1	1:I:3156:GLN:CB	1.55	0.93
2:D:1394:GLN:HG3	1:H:2755:PRO:HD2	1.50	0.93
1:F:2153:MET:CE	1:I:3354:LYS:CB	2.46	0.93
1:F:2175:VAL:CG2	1:I:3380:GLY:C	2.41	0.93
1:C:1023:LEU:HA	1:E:1778:PHE:HZ	1.20	0.93
1:B:430:ARG:CZ	2:D:1192:TYR:CE2	2.51	0.92
2:D:1408:THR:CA	1:M:4741:PHE:CZ	2.45	0.92
1:F:2183:SER:C	1:I:3359:ARG:HH22	1.67	0.92
1:C:1088:LEU:C	1:E:1834:GLY:O	2.13	0.92
2:D:1389:LYS:HG3	1:F:1961:ARG:N	1.83	0.92
1:H:2957:MET:HE2	1:K:4146:LYS:HB2	1.42	0.92
1:H:3019:LEU:CD2	1:K:4209:ASP:OD2	2.18	0.92
1:H:3054:ASP:HB3	1:H:3088:LYS:HB2	1.51	0.92
2:D:1367:GLY:HA3	1:F:1968:GLN:HB3	1.50	0.92
1:M:4710:MET:HE1	1:M:4830:VAL:HG11	1.47	0.92
1:B:728:ASP:HB3	1:B:762:LYS:HB2	1.51	0.92
1:F:2197:SER:C	1:I:3421:VAL:HG21	1.95	0.92
1:H:2958:LYS:HD2	1:K:4156:SER:HA	1.50	0.92
1:C:1014:ILE:HD11	1:C:1068:PHE:CE1	2.05	0.92
1:C:1088:LEU:CD2	1:E:1834:GLY:CA	2.12	0.92
1:C:1124:ASP:HB3	1:C:1158:LYS:HB2	1.50	0.92
2:D:1302:THR:O	1:M:4739:GLN:CD	2.12	0.92
2:D:1506:ILE:HD11	1:K:3941:ARG:NH2	1.83	0.92
1:F:2197:SER:CA	1:I:3421:VAL:HG21	1.98	0.92
1:F:2226:LEU:CA	1:I:3414:LEU:HD21	1.96	0.92
1:G:2548:ILE:HD11	1:G:2602:PHE:CE1	2.05	0.92
1:G:2624:ARG:HG3	1:M:4940:ASP:O	1.67	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:2658:ASP:HB3	1:G:2692:LYS:HB2	1.51	0.92
1:B:618:ILE:HD11	1:B:672:PHE:CE1	2.04	0.92
1:C:1052:LYS:HB3	1:E:1775:ARG:NH2	1.84	0.92
2:D:1448:GLU:CB	1:K:3948:GLN:HB3	1.87	0.92
1:G:2334:MET:HE1	1:G:2454:VAL:HG11	1.47	0.92
2:D:1272:ASP:HB3	1:G:2358:MET:HG2	1.09	0.92
2:D:1391:THR:OG1	1:H:2755:PRO:CG	0.62	0.92
1:F:2175:VAL:HB	1:I:3362:PHE:C	1.93	0.92
1:F:2192:GLY:CA	1:I:3342:GLY:HA3	1.99	0.92
1:G:2563:VAL:HG22	1:M:4937:MET:CB	1.99	0.92
1:H:2944:ILE:HD11	1:H:2998:PHE:CE1	2.05	0.92
1:L:4638:ASP:HB3	1:L:4672:LYS:HB2	1.51	0.92
1:A:222:ILE:HD11	1:A:276:PHE:CE1	2.05	0.92
1:C:876:ARG:NH2	1:C:900:LYS:O	2.03	0.92
1:F:2178:VAL:O	1:I:3358:GLN:CG	0.62	0.92
2:D:1470:GLY:N	1:M:4738:PHE:CG	2.29	0.92
1:F:2151:GLY:HA2	1:I:3356:ASP:OD2	1.69	0.92
1:I:3340:ILE:HD11	1:I:3394:PHE:CE1	2.05	0.92
1:J:3736:ILE:HD11	1:J:3790:PHE:CE1	2.05	0.92
1:E:1756:ILE:HD11	1:E:1810:PHE:CE1	2.05	0.92
1:F:2195:ILE:HG23	1:I:3414:LEU:HD12	1.52	0.92
1:M:4924:ILE:HD11	1:M:4978:PHE:CE1	2.05	0.92
1:C:1022:GLU:O	1:E:1778:PHE:CZ	2.24	0.91
1:C:1053:ALA:HB2	1:E:1773:ALA:HB3	1.48	0.91
1:F:2014:ARG:NH2	1:F:2038:LYS:O	2.03	0.91
1:F:2228:ARG:HE	1:I:3397:LEU:CB	1.76	0.91
1:F:2231:LYS:HE2	1:I:3397:LEU:O	1.70	0.91
2:D:1506:ILE:HD11	1:K:3941:ARG:NH1	1.84	0.91
1:F:2175:VAL:HG13	1:I:3382:VAL:HG22	1.48	0.91
1:I:3375:ALA:CB	1:I:3423:VAL:HG11	2.01	0.91
1:A:31:ARG:CG	2:D:1491:THR:HG22	2.01	0.91
1:C:1049:ALA:CB	1:C:1097:VAL:HG11	2.01	0.91
2:D:1412:GLY:HA2	1:K:3946:PHE:CZ	2.04	0.91
1:E:1791:ALA:CB	1:E:1839:VAL:HG11	2.01	0.91
1:F:2230:GLY:H	1:I:3401:VAL:HG11	1.26	0.91
1:L:4390:ARG:NH2	1:L:4414:LYS:O	2.03	0.91
1:F:2189:ILE:C	1:I:3382:VAL:HG12	1.83	0.91
1:F:2189:ILE:HD12	1:I:3415:LEU:CB	1.99	0.91
1:G:2561:MET:HE3	1:M:4938:LYS:HE3	1.46	0.91
1:G:2583:ALA:CB	1:G:2631:VAL:HG11	2.01	0.91
1:J:3771:ALA:CB	1:J:3819:VAL:HG11	2.01	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:693:LEU:CD2	1:J:3815:LYS:HE2	2.00	0.91
2:D:1218:ASP:OD1	1:J:3554:PHE:HE1	1.50	0.91
2:D:1426:TYR:N	1:K:3946:PHE:CE1	2.37	0.91
1:F:2168:ASP:O	1:I:3339:GLY:O	1.88	0.91
1:F:2187:ALA:CB	1:F:2235:VAL:HG11	2.01	0.91
1:G:2562:LYS:HB2	1:M:4946:PHE:HE1	1.34	0.91
1:J:3598:ARG:NH2	1:J:3622:LYS:O	2.03	0.91
1:A:33:PRO:CB	2:D:1204:LYS:HB2	2.01	0.91
1:M:4786:ARG:NH2	1:M:4810:LYS:O	2.03	0.91
2:D:1361:LEU:HA	1:H:2760:GLN:HE21	1.28	0.91
1:F:2171:ARG:NH1	1:I:3370:SER:N	2.13	0.91
1:F:2228:ARG:CG	1:I:3397:LEU:HB3	2.00	0.91
1:H:2956:ALA:HB3	1:K:4144:ALA:C	1.88	0.91
1:K:3994:ARG:NH2	1:K:4018:LYS:O	2.03	0.91
1:K:4242:ASP:HB3	1:K:4276:LYS:HB2	1.51	0.91
1:F:2208:ALA:HB2	1:I:3378:LYS:HZ3	1.29	0.91
1:H:2956:ALA:O	1:K:4145:MET:HE3	1.69	0.91
1:I:3202:ARG:NH2	1:I:3226:LYS:O	2.03	0.91
2:D:1221:GLN:NE2	1:J:3554:PHE:N	2.18	0.91
2:D:1272:ASP:O	1:G:2360:ARG:HD2	1.71	0.91
2:D:1508:LEU:H	1:K:3951:GLY:CA	1.83	0.91
1:H:2979:ALA:CB	1:H:3027:VAL:HG11	2.01	0.91
1:M:4959:ALA:CB	1:M:5007:VAL:HG11	2.01	0.91
2:D:1249:GLN:CG	1:I:3154:PHE:CB	2.25	0.91
1:F:2150:LEU:HG	1:I:3415:LEU:CD2	2.01	0.91
1:B:694:ARG:HH12	1:J:3811:LEU:CD1	1.84	0.90
2:D:1276:PHE:HB3	1:G:2362:PHE:CD1	1.56	0.90
2:D:1411:GLY:HA2	1:L:4344:GLN:C	1.96	0.90
1:F:2152:ILE:HD11	1:F:2206:PHE:CE1	2.04	0.90
1:F:2224:LEU:HB2	1:I:3414:LEU:HB2	0.91	0.90
1:A:84:ARG:NH2	1:A:108:LYS:O	2.03	0.90
1:B:653:ALA:CB	1:B:701:VAL:HG11	2.01	0.90
2:D:1382:GLY:O	1:L:4345:PHE:C	2.14	0.90
2:D:1405:ARG:HH11	1:F:1962:MET:HE2	0.76	0.90
1:F:2192:GLY:CA	1:I:3343:THR:N	2.34	0.90
1:G:2624:ARG:CG	1:M:4940:ASP:O	2.19	0.90
1:B:480:ARG:NH2	1:B:504:LYS:O	2.03	0.90
1:C:1028:LYS:CD	1:E:1756:ILE:HD12	2.00	0.90
2:D:1474:GLY:CA	1:M:4732:PRO:CB	2.45	0.90
1:F:2189:ILE:HD12	1:I:3415:LEU:HB2	1.53	0.90
1:F:2228:ARG:CB	1:I:3397:LEU:CD2	2.40	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:2262:ASP:HB3	1:F:2296:LYS:HB2	1.51	0.90
1:G:2561:MET:HE1	1:M:4938:LYS:HE2	0.91	0.90
1:H:2953:LEU:HA	1:K:4145:MET:HA	0.91	0.90
1:L:4563:ALA:CB	1:L:4611:VAL:HG11	2.01	0.90
1:M:4925:MET:HE2	1:M:4951:LEU:HD11	1.54	0.90
1:C:1023:LEU:HD22	1:E:1771:VAL:HG13	0.90	0.90
2:D:1276:PHE:O	1:G:2362:PHE:CE1	2.23	0.90
2:D:1368:VAL:HA	1:F:1967:GLN:H	1.35	0.90
2:D:1433:THR:HG23	1:M:4739:GLN:CD	1.89	0.90
1:F:2153:MET:HE2	1:F:2179:LEU:HD11	1.53	0.90
1:F:2175:VAL:HB	1:I:3362:PHE:CA	1.99	0.90
1:F:2175:VAL:CG2	1:I:3363:VAL:H	1.84	0.90
1:F:2177:GLN:HB3	1:I:3350:ALA:CA	1.95	0.90
1:J:3846:ASP:HB3	1:J:3880:LYS:HB2	1.50	0.90
2:D:1277:ASP:CB	1:E:1573:PHE:CZ	2.54	0.90
1:F:2175:VAL:HB	1:I:3362:PHE:HA	1.52	0.90
1:F:2179:LEU:N	1:I:3356:ASP:O	2.03	0.90
1:G:2410:ARG:NH2	1:G:2434:LYS:O	2.03	0.90
1:G:2562:LYS:C	1:M:4937:MET:CE	2.41	0.90
1:A:257:ALA:CB	1:A:305:VAL:HG11	2.01	0.90
1:F:2177:GLN:HB3	1:I:3350:ALA:HB1	0.91	0.90
1:H:2957:MET:O	1:K:4172:GLY:CA	2.20	0.90
1:H:3019:LEU:HG	1:K:4211:LYS:HZ2	1.17	0.90
1:L:4528:ILE:HD11	1:L:4582:PHE:CE1	2.04	0.90
1:A:297:LEU:CB	1:L:4604:ARG:HD3	2.00	0.90
2:D:1466:LEU:N	1:K:3950:PHE:HB3	1.86	0.90
2:D:1469:LYS:O	1:M:4738:PHE:CG	2.14	0.90
1:F:2153:MET:CB	1:I:3355:VAL:HA	2.00	0.90
1:G:2567:ARG:NH2	1:M:5000:ARG:CZ	2.34	0.90
1:A:223:MET:HE2	1:A:249:LEU:HD11	1.54	0.90
1:C:1015:MET:HE2	1:C:1041:LEU:HD11	1.54	0.90
2:D:1447:PHE:CG	1:K:3946:PHE:O	2.25	0.90
1:F:2190:LYS:N	1:I:3382:VAL:CG1	2.35	0.90
1:F:2230:GLY:C	1:I:3338:LEU:HD22	1.97	0.90
1:B:632:LYS:NZ	1:J:3749:MET:SD	0.67	0.90
2:D:1389:LYS:NZ	1:F:1961:ARG:H	1.59	0.90
1:E:1618:ARG:NH2	1:E:1642:LYS:O	2.03	0.90
1:F:2230:GLY:N	1:I:3338:LEU:HD22	1.86	0.90
1:K:4132:ILE:HD11	1:K:4186:PHE:CE1	2.05	0.90
1:C:1055:ASP:C	1:E:1834:GLY:N	2.21	0.90
2:D:1487:ASP:C	1:K:3941:ARG:CB	2.40	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:2208:ALA:CB	1:I:3378:LYS:HZ2	1.83	0.90
1:H:2986:VAL:HG21	1:K:4208:ARG:HH12	1.36	0.90
1:K:4167:ALA:CB	1:K:4215:VAL:HG11	2.01	0.90
1:B:435:PHE:CD1	2:D:1189:ALA:O	2.25	0.89
2:D:1241:TYR:CE1	1:E:1573:PHE:HE1	1.90	0.89
2:D:1385:ILE:CB	1:L:4341:ASN:OD1	2.09	0.89
2:D:1397:ALA:C	1:H:2753:ARG:HG3	1.96	0.89
2:D:1443:LYS:C	1:M:4738:PHE:HA	1.95	0.89
1:F:2228:ARG:HH12	1:I:3398:ARG:HB2	1.13	0.89
1:H:2953:LEU:CA	1:K:4145:MET:C	2.44	0.89
1:H:3068:ALA:O	1:H:3071:ILE:HG22	1.73	0.89
1:J:3737:MET:HE2	1:J:3763:LEU:HD11	1.54	0.89
1:A:300:GLY:O	1:L:4608:GLN:N	1.86	0.89
2:D:1214:ASN:HD22	1:J:3548:ARG:HB3	1.36	0.89
2:D:1367:GLY:HA2	1:F:1965:ASN:H	1.37	0.89
2:D:1448:GLU:C	1:K:3947:GLN:H	1.80	0.89
1:F:2175:VAL:CB	1:I:3363:VAL:N	2.20	0.89
1:F:2177:GLN:CD	1:I:3355:VAL:N	2.30	0.89
1:F:2228:ARG:HG3	1:I:3394:PHE:CD1	2.07	0.89
1:A:263:ASP:HB2	1:L:4605:ASP:OD1	1.72	0.89
1:A:346:ALA:O	1:A:349:ILE:HG22	1.73	0.89
1:C:1023:LEU:HD22	1:E:1771:VAL:HG11	1.49	0.89
2:D:1325:PHE:HB2	1:G:2357:ARG:CB	2.01	0.89
1:G:2560:ALA:O	1:M:4935:LYS:CB	2.19	0.89
1:K:4256:ALA:O	1:K:4259:ILE:HG22	1.73	0.89
1:C:1036:PHE:CD2	1:E:1832:ARG:HG3	1.99	0.89
2:D:1217:VAL:HG21	1:J:3548:ARG:NH2	1.63	0.89
2:D:1235:THR:CG2	1:E:1764:GLU:CD	2.46	0.89
1:H:2806:ARG:NH2	1:H:2830:LYS:O	2.03	0.89
1:B:428:MET:HE1	2:D:1195:ASP:OD2	1.71	0.89
1:C:1049:ALA:HB1	1:C:1097:VAL:HG11	1.55	0.89
2:D:1272:ASP:O	1:G:2358:MET:HG3	1.73	0.89
2:D:1323:ASP:HB2	1:G:2359:PRO:HD2	1.53	0.89
1:F:2213:VAL:HG13	1:I:3419:LYS:CE	2.01	0.89
1:G:2672:ALA:O	1:G:2675:ILE:HG22	1.73	0.89
1:A:33:PRO:CA	2:D:1533:GLN:N	2.36	0.89
1:A:257:ALA:HB1	1:A:305:VAL:HG11	1.55	0.89
1:C:1088:LEU:HD22	1:E:1834:GLY:C	1.97	0.89
1:C:1138:ALA:O	1:C:1141:ILE:HG22	1.73	0.89
2:D:1451:ALA:CB	1:K:3942:MET:HG2	2.01	0.89
2:D:1523:ASP:CB	1:J:3548:ARG:HD3	1.98	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:2197:SER:C	1:I:3421:VAL:CG2	2.46	0.89
1:G:2560:ALA:C	1:M:4935:LYS:HB2	1.98	0.89
1:A:31:ARG:CG	2:D:1493:TYR:HA	1.98	0.89
2:D:1247:GLN:CG	1:I:3153:ASN:HA	2.02	0.89
2:D:1248:ILE:HD11	1:I:3150:MET:HE2	1.52	0.89
2:D:1440:TRP:CH2	1:H:2760:GLN:NE2	2.40	0.89
1:E:1880:ALA:O	1:E:1883:ILE:HG22	1.73	0.89
1:F:2185:ALA:CB	1:I:3357:ALA:CA	2.51	0.89
1:F:2226:LEU:O	1:I:3338:LEU:HD21	1.73	0.89
2:D:1260:TRP:CD2	1:I:3153:ASN:C	2.47	0.89
1:F:2198:LEU:CG	1:I:3419:LYS:CB	2.30	0.89
1:G:2561:MET:HE3	1:M:4938:LYS:CG	2.02	0.89
1:M:5048:ALA:O	1:M:5051:ILE:HG22	1.73	0.89
2:D:1217:VAL:CG1	1:J:3549:ASN:O	2.21	0.88
1:E:1791:ALA:HB1	1:E:1839:VAL:HG11	1.55	0.88
1:F:2197:SER:OG	1:I:3421:VAL:CG1	2.21	0.88
1:H:2953:LEU:CD2	1:K:4146:LYS:N	2.23	0.88
1:H:3021:ASP:N	1:K:4211:LYS:CD	2.34	0.88
1:J:3860:ALA:O	1:J:3863:ILE:HG22	1.73	0.88
1:K:4167:ALA:HB1	1:K:4215:VAL:HG11	1.55	0.88
1:A:34:ARG:HH21	2:D:1496:LYS:HA	1.20	0.88
2:D:1213:ASP:N	1:J:3544:PRO:HA	1.87	0.88
1:F:2177:GLN:H	1:I:3355:VAL:CG1	1.86	0.88
1:H:3019:LEU:CD2	1:K:4208:ARG:HE	1.86	0.88
1:L:4529:MET:HE2	1:L:4555:LEU:HD11	1.54	0.88
1:B:653:ALA:HB1	1:B:701:VAL:HG11	1.55	0.88
2:D:1306:ASP:CB	1:H:2759:GLN:NE2	2.34	0.88
2:D:1359:ASP:H	1:H:2758:PHE:HD2	0.92	0.88
1:F:2177:GLN:CA	1:I:3350:ALA:CB	2.50	0.88
1:F:2231:LYS:H	1:I:3338:LEU:CD2	1.86	0.88
1:G:2549:MET:HE2	1:G:2575:LEU:HD11	1.54	0.88
1:G:2583:ALA:HB1	1:G:2631:VAL:HG11	1.55	0.88
1:H:2960:ASP:HB2	1:K:4208:ARG:CD	2.02	0.88
1:I:3464:ALA:O	1:I:3467:ILE:HG22	1.73	0.88
1:A:31:ARG:HH22	2:D:1459:LEU:HA	1.34	0.88
1:B:619:MET:HE2	1:B:645:LEU:HD11	1.54	0.88
1:F:2192:GLY:HA2	1:I:3342:GLY:HA3	1.55	0.88
1:G:2624:ARG:N	1:M:5000:ARG:CA	2.30	0.88
1:H:2960:ASP:O	1:K:4208:ARG:NE	2.07	0.88
1:H:3023:LYS:HE2	1:K:4210:GLY:HA3	1.53	0.88
1:J:3771:ALA:HB1	1:J:3819:VAL:HG11	1.55	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1093:LYS:CE	1:E:1836:GLN:HE22	1.87	0.88
2:D:1244:TRP:HH2	1:I:3150:MET:CA	1.85	0.88
2:D:1508:LEU:HB2	1:K:3951:GLY:HA3	1.55	0.88
1:F:2177:GLN:CG	1:I:3355:VAL:HG13	2.04	0.88
1:F:2227:LEU:HG	1:I:3338:LEU:HG	1.54	0.88
2:D:1260:TRP:NE1	1:I:3155:GLN:HG3	1.89	0.88
2:D:1309:MET:HE1	1:F:1967:GLN:HG3	0.89	0.88
1:C:1036:PHE:CB	1:E:1832:ARG:HH11	1.85	0.88
1:F:2168:ASP:HB3	1:I:3367:LEU:HD12	1.53	0.88
1:A:30:PRO:C	2:D:1498:MET:O	2.16	0.88
2:D:1389:LYS:HZ1	1:F:1960:PRO:CA	1.78	0.88
2:D:1409:TYR:HB3	1:L:4343:GLN:N	1.87	0.88
1:F:2194:VAL:C	1:I:3377:ILE:CG2	2.44	0.88
1:F:2225:GLY:C	1:I:3414:LEU:HD11	1.98	0.88
1:G:2624:ARG:H	1:M:5000:ARG:CA	1.87	0.88
1:G:2627:LYS:CE	1:M:4999:LEU:CG	2.43	0.88
1:H:2985:ASP:OD1	1:K:4209:ASP:CA	2.21	0.88
1:A:31:ARG:NH1	2:D:1493:TYR:N	2.14	0.88
2:D:1309:MET:CG	1:F:1968:GLN:NE2	2.34	0.88
2:D:1398:ALA:O	1:H:2762:PHE:HD1	1.57	0.88
2:D:1452:GLN:NE2	1:K:3943:PRO:CD	2.18	0.88
1:G:2557:LEU:CD1	1:M:4938:LYS:HZ2	1.60	0.88
1:H:2957:MET:CG	1:K:4145:MET:O	2.21	0.88
1:L:4563:ALA:HB1	1:L:4611:VAL:HG11	1.55	0.88
1:A:295:GLY:C	1:L:4607:LYS:HZ1	1.81	0.88
1:F:2150:LEU:CG	1:I:3415:LEU:HD23	2.04	0.88
1:F:2153:MET:H	1:I:3355:VAL:CG1	1.87	0.88
1:F:2198:LEU:CD2	1:I:3419:LYS:HA	2.03	0.88
1:A:298:ARG:C	1:L:4569:ASP:CG	2.42	0.87
1:C:1019:LEU:CG	1:E:1832:ARG:HD2	2.02	0.87
2:D:1446:ASN:CB	1:K:3949:PHE:CE2	2.56	0.87
2:D:1486:VAL:HG12	1:K:3941:ARG:HG3	1.53	0.87
1:F:2175:VAL:HG11	1:I:3382:VAL:HG22	0.88	0.87
1:F:2276:ALA:O	1:F:2279:ILE:HG22	1.73	0.87
1:H:2956:ALA:HB1	1:K:4145:MET:N	1.85	0.87
1:H:3023:LYS:CE	1:K:4210:GLY:HA3	2.03	0.87
2:D:1336:GLN:CG	1:F:1967:GLN:HB2	1.95	0.87
1:E:1757:MET:HE2	1:E:1783:LEU:HD11	1.54	0.87
1:C:1056:VAL:HG13	1:E:1832:ARG:HD3	1.55	0.87
2:D:1309:MET:HE1	1:F:1967:GLN:HG2	1.54	0.87
2:D:1368:VAL:O	1:F:1965:ASN:CG	2.16	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:1446:ASN:OD1	1:M:4739:GLN:HB3	1.73	0.87
2:D:1487:ASP:O	1:K:3941:ARG:HB2	1.72	0.87
1:G:2589:ASP:OD2	1:M:4940:ASP:HB3	1.75	0.87
1:C:1089:LEU:HB3	1:E:1835:LYS:CB	1.71	0.87
1:G:2623:LEU:CD2	1:M:5000:ARG:HA	1.97	0.87
1:G:2624:ARG:HD2	1:M:4941:ALA:CA	2.04	0.87
1:H:2945:MET:HE2	1:H:2971:LEU:HD11	1.54	0.87
1:A:260:LYS:HB3	1:L:4544:ASP:CA	2.04	0.87
1:C:1030:ASP:N	1:E:1830:LEU:HD11	1.89	0.87
1:F:2150:LEU:HD13	1:I:3418:GLY:H	1.04	0.87
1:F:2187:ALA:HB1	1:F:2235:VAL:HG11	1.55	0.87
1:H:2957:MET:HE2	1:K:4145:MET:O	1.74	0.87
1:B:437:GLY:O	2:D:1191:VAL:CG2	2.22	0.87
2:D:1367:GLY:HA2	1:F:1965:ASN:N	1.90	0.87
2:D:1425:GLN:O	1:K:3946:PHE:O	1.93	0.87
1:B:430:ARG:NH2	2:D:1192:TYR:CD2	2.42	0.87
2:D:1335:VAL:HG11	1:F:1966:PHE:CZ	1.75	0.87
2:D:1448:GLU:CA	1:K:3947:GLN:H	1.88	0.87
1:F:2171:ARG:HH11	1:I:3373:ALA:CB	1.82	0.87
1:F:2183:SER:O	1:I:3359:ARG:NH2	2.08	0.87
1:F:2210:ARG:N	1:I:3416:ARG:NH1	2.14	0.87
1:F:2231:LYS:HE3	1:I:3397:LEU:C	2.00	0.87
2:D:1389:LYS:HG2	1:F:1961:ARG:HB2	0.88	0.87
1:F:2222:LEU:O	1:I:3418:GLY:O	1.92	0.87
1:L:4652:ALA:O	1:L:4655:ILE:HG22	1.73	0.87
1:A:237:VAL:HA	1:L:4567:ALA:O	1.75	0.86
1:B:430:ARG:HE	2:D:1197:ASN:H	1.18	0.86
1:C:1036:PHE:CD2	1:E:1832:ARG:CG	2.53	0.86
1:F:2177:GLN:N	1:I:3355:VAL:HG11	1.65	0.86
1:G:2557:LEU:O	1:M:4938:LYS:HG2	1.73	0.86
1:B:742:ALA:O	1:B:745:ILE:HG22	1.73	0.86
1:F:2231:LYS:CE	1:I:3397:LEU:CA	2.46	0.86
1:H:2979:ALA:HB1	1:H:3027:VAL:HG11	1.55	0.86
1:C:1185:ILE:HD12	1:C:1187:LEU:HD21	1.58	0.86
2:D:1325:PHE:CB	1:G:2358:MET:HE3	2.01	0.86
2:D:1389:LYS:CD	1:F:1961:ARG:H	1.88	0.86
1:F:2177:GLN:N	1:I:3355:VAL:CG1	2.38	0.86
1:F:2197:SER:CB	1:I:3421:VAL:CG2	2.46	0.86
1:F:2228:ARG:CB	1:I:3397:LEU:CG	2.54	0.86
1:C:1035:ALA:O	1:E:1832:ARG:HB3	1.76	0.86
2:D:1387:SER:O	1:F:1965:ASN:CB	2.23	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1089:LEU:HD21	1:E:1837:VAL:HG23	0.90	0.86
2:D:1325:PHE:CG	1:G:2357:ARG:HB2	2.08	0.86
2:D:1425:GLN:O	1:K:3946:PHE:C	2.18	0.86
1:F:2228:ARG:CG	1:I:3397:LEU:HD13	2.06	0.86
1:A:33:PRO:HB3	2:D:1533:GLN:CA	2.06	0.86
2:D:1366:ASP:N	1:F:1970:PHE:CB	2.30	0.86
2:D:1409:TYR:HD2	1:M:4741:PHE:CZ	1.94	0.86
1:F:2210:ARG:O	1:I:3416:ARG:NH2	1.88	0.86
1:F:2228:ARG:HB3	1:I:3397:LEU:HD22	0.89	0.86
1:F:2231:LYS:HD2	1:I:3386:LEU:HD12	1.55	0.86
1:L:4699:ILE:HD12	1:L:4701:LEU:HD21	1.57	0.86
1:A:393:ILE:HD12	1:A:395:LEU:HD21	1.58	0.86
2:D:1335:VAL:HG13	1:F:1966:PHE:CZ	2.11	0.86
2:D:1448:GLU:C	1:K:3947:GLN:N	2.12	0.86
1:F:2155:THR:N	1:I:3353:MET:SD	2.48	0.86
1:F:2202:PRO:HA	1:I:3376:GLY:HA2	1.57	0.86
1:F:2203:ILE:CG2	1:I:3378:LYS:HB2	2.06	0.86
1:A:31:ARG:NH1	2:D:1493:TYR:H	1.73	0.86
1:A:300:GLY:HA3	1:L:4608:GLN:H	1.40	0.86
1:B:789:ILE:HD12	1:B:791:LEU:HD21	1.57	0.86
2:D:1214:ASN:HB2	1:J:3548:ARG:HG3	0.88	0.86
1:F:2233:VAL:O	1:I:3420:GLN:CB	2.24	0.86
1:J:3907:ILE:HD12	1:J:3909:LEU:HD21	1.57	0.86
2:D:1235:THR:CB	1:E:1764:GLU:OE2	2.24	0.86
2:D:1321:ASN:CA	1:G:2361:ASN:HB2	1.92	0.86
2:D:1333:PHE:CE1	1:G:2364:GLN:CG	2.59	0.86
2:D:1446:ASN:CG	1:M:4739:GLN:HB3	2.01	0.86
1:F:2180:PRO:HD3	1:I:3358:GLN:HE21	1.41	0.86
1:G:2561:MET:HB2	1:M:4938:LYS:N	1.91	0.86
1:G:2570:PHE:CE2	1:M:4938:LYS:O	2.26	0.86
1:G:2588:GLY:N	1:M:4940:ASP:OD1	2.09	0.86
1:M:4959:ALA:HB1	1:M:5007:VAL:HG11	1.55	0.86
1:A:298:ARG:C	1:L:4569:ASP:HB3	2.01	0.86
2:D:1354:THR:CG2	1:F:1971:GLY:C	2.49	0.86
2:D:1354:THR:HG21	1:F:1971:GLY:C	2.01	0.86
2:D:1368:VAL:CG1	1:F:1965:ASN:HA	1.98	0.86
1:F:2153:MET:N	1:I:3355:VAL:HA	1.91	0.86
1:F:2167:VAL:HG12	1:I:3341:MET:O	1.76	0.86
1:F:2178:VAL:CG1	1:I:3359:ARG:N	2.39	0.86
1:K:4133:MET:HE2	1:K:4159:LEU:HD11	1.54	0.86
2:D:1408:THR:OG1	1:L:4343:GLN:CD	2.19	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:2174:PHE:O	1:I:3380:GLY:CA	2.24	0.85
1:F:2178:VAL:CG1	1:I:3345:LEU:HD11	2.05	0.85
1:F:2208:ALA:CB	1:I:3378:LYS:HZ3	1.84	0.85
2:D:1452:GLN:NE2	1:K:3943:PRO:HD3	1.87	0.85
1:F:2178:VAL:HG11	1:I:3358:GLN:HA	1.54	0.85
1:G:2588:GLY:CA	1:M:4940:ASP:N	2.38	0.85
2:D:1359:ASP:N	1:H:2758:PHE:HD2	1.73	0.85
1:F:2224:LEU:CD1	1:I:3414:LEU:H	1.86	0.85
1:F:2229:ASP:OD1	1:I:3398:ARG:CA	2.21	0.85
1:B:693:LEU:HD21	1:J:3815:LYS:CE	2.03	0.85
2:D:1365:GLY:CA	1:F:1970:PHE:HB3	1.94	0.85
2:D:1366:ASP:HB2	1:F:1964:ARG:NH2	1.90	0.85
1:B:428:MET:HE2	2:D:1195:ASP:CB	2.04	0.85
2:D:1240:GLY:C	1:E:1575:GLY:O	2.20	0.85
2:D:1523:ASP:CB	1:J:3546:MET:HG3	2.05	0.85
1:F:2191:ALA:CB	1:I:3344:GLU:C	2.39	0.85
1:C:1028:LYS:CE	1:E:1781:GLN:H	1.90	0.85
1:C:1030:ASP:CA	1:E:1830:LEU:HD11	2.06	0.85
2:D:1214:ASN:HB2	1:J:3548:ARG:CB	2.05	0.85
2:D:1333:PHE:CE1	1:G:2364:GLN:HG2	2.11	0.85
1:I:3375:ALA:HB1	1:I:3423:VAL:HG11	1.55	0.85
1:A:297:LEU:CA	1:L:4607:LYS:HG2	2.05	0.85
2:D:1265:PHE:HB2	1:E:1571:GLN:C	2.01	0.85
1:G:2627:LYS:CE	1:M:4999:LEU:CD1	2.53	0.85
1:K:4303:ILE:HD12	1:K:4305:LEU:HD21	1.57	0.85
1:F:2171:ARG:NH1	1:I:3367:LEU:O	2.08	0.85
1:F:2184:ALA:N	1:I:3359:ARG:NH2	2.11	0.85
1:F:2229:ASP:OD2	1:I:3398:ARG:CA	2.25	0.85
1:H:3023:LYS:HE2	1:K:4210:GLY:CA	2.06	0.85
1:A:29:THR:HG22	2:D:1494:PHE:CZ	2.08	0.85
2:D:1391:THR:CA	1:H:2755:PRO:CG	2.54	0.85
1:F:2175:VAL:HG23	1:I:3363:VAL:HB	1.57	0.85
1:F:2210:ARG:CA	1:I:3416:ARG:HH22	1.67	0.85
1:F:2224:LEU:CG	1:I:3414:LEU:HB2	2.06	0.85
1:C:1023:LEU:O	1:E:1796:GLY:O	1.94	0.85
1:C:1089:LEU:HD11	1:E:1837:VAL:CG2	2.07	0.85
2:D:1409:TYR:CD2	1:M:4741:PHE:CZ	2.64	0.85
1:F:2168:ASP:CB	1:I:3367:LEU:HD12	2.06	0.85
1:F:2177:GLN:CB	1:I:3350:ALA:CA	2.50	0.85
1:F:2232:GLN:NE2	1:I:3411:THR:HA	1.92	0.85
2:D:1235:THR:HG21	1:E:1764:GLU:OE2	1.77	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:1363:GLN:NE2	1:H:2756:ARG:H	1.74	0.84
2:D:1470:GLY:N	1:M:4738:PHE:CD2	2.45	0.84
1:F:2232:GLN:NE2	1:I:3412:LEU:HD12	1.92	0.84
1:F:2232:GLN:HE22	1:I:3422:ASN:HA	1.42	0.84
1:G:2719:ILE:HD12	1:G:2721:LEU:HD21	1.57	0.84
1:F:2231:LYS:H	1:I:3338:LEU:HD22	1.37	0.84
1:B:632:LYS:HG3	1:J:3751:VAL:HG13	1.58	0.84
1:C:1028:LYS:HE3	1:E:1781:GLN:N	1.92	0.84
1:C:1039:GLN:CG	1:E:1772:ASP:CG	2.39	0.84
1:C:1056:VAL:CG1	1:E:1832:ARG:HD3	2.06	0.84
2:D:1462:SER:CB	1:K:3943:PRO:HD3	2.07	0.84
1:F:2149:GLU:C	1:I:3417:ASP:HA	2.02	0.84
1:I:3511:ILE:HD12	1:I:3513:LEU:HD21	1.57	0.84
1:A:29:THR:O	2:D:1492:TYR:C	2.19	0.84
2:D:1267:GLY:H	1:E:1573:PHE:C	1.80	0.84
1:H:3115:ILE:HD12	1:H:3117:LEU:HD21	1.57	0.84
2:D:1446:ASN:HD21	1:M:4739:GLN:CD	1.84	0.84
1:H:2957:MET:HB3	1:K:4147:VAL:HG12	1.60	0.84
2:D:1411:GLY:HA3	1:L:4345:PHE:N	1.91	0.84
1:F:2193:ASP:OD1	1:I:3361:ALA:HB3	1.65	0.84
1:F:2323:ILE:HD12	1:F:2325:LEU:HD21	1.57	0.84
2:D:1302:THR:O	1:M:4739:GLN:NE2	2.11	0.84
2:D:1391:THR:HB	1:H:2755:PRO:HG3	1.56	0.84
1:F:2222:LEU:HD12	1:I:3419:LYS:HD3	0.89	0.84
2:D:1260:TRP:HZ2	1:I:3155:GLN:HG2	1.04	0.84
2:D:1385:ILE:HG22	1:L:4341:ASN:CG	2.02	0.84
2:D:1486:VAL:HA	1:K:3950:PHE:CD1	2.11	0.84
1:F:2157:LEU:HD11	1:I:3366:VAL:CG1	2.08	0.84
1:H:2960:ASP:O	1:K:4208:ARG:CZ	2.25	0.84
1:M:5095:ILE:HD12	1:M:5097:LEU:HD21	1.57	0.84
1:B:693:LEU:HD11	1:J:3815:LYS:HZ1	1.42	0.84
1:C:1055:ASP:CA	1:E:1830:LEU:O	2.26	0.84
2:D:1366:ASP:HB2	1:F:1964:ARG:HH21	1.43	0.84
2:D:1429:THR:HA	1:M:4741:PHE:CE2	2.11	0.84
1:E:1927:ILE:HD12	1:E:1929:LEU:HD21	1.58	0.84
1:G:2624:ARG:CD	1:M:4999:LEU:CD1	2.56	0.84
1:A:300:GLY:HA3	1:L:4608:GLN:N	1.92	0.84
1:F:2224:LEU:C	1:I:3421:VAL:H	1.85	0.84
1:A:301:LYS:O	1:L:4607:LYS:HD3	1.78	0.83
1:F:2155:THR:O	1:I:3379:ALA:HB3	1.78	0.83
1:H:2953:LEU:CA	1:K:4145:MET:CA	2.40	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:301:LYS:HD3	1:L:4607:LYS:C	2.03	0.83
1:C:1025:LYS:HG3	1:E:1795:ALA:HB3	1.60	0.83
2:D:1272:ASP:HA	1:G:2359:PRO:HB3	1.58	0.83
1:F:2150:LEU:N	1:I:3417:ASP:CA	2.40	0.83
1:F:2184:ALA:C	1:I:3359:ARG:NE	2.26	0.83
1:F:2194:VAL:C	1:I:3377:ILE:HG21	2.03	0.83
1:A:33:PRO:CB	2:D:1533:GLN:CA	2.56	0.83
2:D:1389:LYS:HA	1:F:1961:ARG:O	1.78	0.83
2:D:1468:SER:HB3	1:K:3949:PHE:CE1	2.11	0.83
1:E:1755:GLY:O	1:E:1783:LEU:HB2	1.79	0.83
1:F:2189:ILE:CG1	1:I:3384:THR:N	2.35	0.83
1:F:2228:ARG:HB2	1:I:3397:LEU:CG	2.08	0.83
1:G:2547:GLY:O	1:G:2575:LEU:HB2	1.79	0.83
1:G:2564:ASP:CB	1:M:4963:ALA:O	2.09	0.83
1:H:2986:VAL:N	1:K:4209:ASP:OD1	2.10	0.83
2:D:1369:GLY:N	1:F:1967:GLN:HE21	1.76	0.83
2:D:1433:THR:N	1:M:4740:GLN:HE21	1.76	0.83
1:F:2197:SER:OG	1:I:3421:VAL:HG11	1.77	0.83
1:H:2943:GLY:O	1:H:2971:LEU:HB2	1.79	0.83
1:B:430:ARG:CZ	2:D:1192:TYR:HE2	1.88	0.83
2:D:1323:ASP:HB2	1:G:2359:PRO:CD	2.08	0.83
1:F:2175:VAL:HA	1:I:3380:GLY:HA2	1.60	0.83
1:L:4527:GLY:O	1:L:4555:LEU:HB2	1.79	0.83
1:A:260:LYS:CB	1:L:4544:ASP:C	2.52	0.83
2:D:1265:PHE:CB	1:E:1571:GLN:O	2.22	0.83
1:F:2171:ARG:NE	1:I:3366:VAL:HG22	1.93	0.83
1:G:2624:ARG:HB3	1:M:4999:LEU:CD1	2.08	0.83
1:B:431:ASN:HB3	2:D:1198:LYS:N	1.94	0.83
1:B:435:PHE:N	2:D:1199:LEU:C	2.19	0.83
1:B:630:ALA:O	1:J:3750:LYS:N	1.97	0.83
2:D:1385:ILE:HG22	1:L:4341:ASN:HD22	1.02	0.83
2:D:1431:ASN:HD21	1:M:4742:PHE:HB2	1.44	0.83
2:D:1432:ALA:N	1:M:4740:GLN:HB2	1.88	0.83
2:D:1469:LYS:C	1:M:4738:PHE:CD1	2.56	0.83
1:F:2213:VAL:CG1	1:I:3416:ARG:HB3	2.08	0.83
1:A:297:LEU:HB3	1:L:4604:ARG:HE	1.42	0.83
1:B:428:MET:HE1	2:D:1195:ASP:CG	2.03	0.83
2:D:1389:LYS:CB	1:F:1961:ARG:HB2	2.08	0.83
1:F:2193:ASP:CG	1:I:3361:ALA:HB1	1.95	0.83
1:F:2193:ASP:HB2	1:I:3383:ILE:CD1	2.01	0.83
1:F:2194:VAL:HG11	1:I:3366:VAL:CA	2.08	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:2224:LEU:HD23	1:I:3419:LYS:CG	2.07	0.83
1:G:2561:MET:HE3	1:M:4938:LYS:HG2	1.61	0.83
1:G:2627:LYS:O	1:M:5001:ASP:HA	1.78	0.83
1:A:259:ILE:HG12	1:A:296:LEU:HD11	1.61	0.83
1:A:298:ARG:HA	1:L:4569:ASP:CG	2.02	0.83
1:A:298:ARG:CA	1:L:4569:ASP:OD1	2.26	0.83
1:C:1056:VAL:HG13	1:E:1832:ARG:CD	2.08	0.83
2:D:1244:TRP:CZ2	1:I:3149:ARG:HB3	2.14	0.83
2:D:1247:GLN:HB3	1:I:3153:ASN:HA	0.87	0.83
2:D:1367:GLY:O	1:F:1967:GLN:N	2.12	0.83
1:G:2623:LEU:HB2	1:M:5001:ASP:OD1	1.78	0.83
1:C:1013:GLY:O	1:C:1041:LEU:HB2	1.79	0.83
1:C:1051:ILE:HG12	1:C:1088:LEU:HD11	1.61	0.83
1:C:1030:ASP:H	1:E:1830:LEU:CD1	1.91	0.82
1:C:1030:ASP:H	1:E:1830:LEU:HD11	1.42	0.82
1:C:1057:ILE:CD1	1:E:1833:ASP:C	2.51	0.82
2:D:1318:THR:O	1:G:2363:GLN:CB	2.26	0.82
1:F:2153:MET:CE	1:I:3354:LYS:HB3	2.09	0.82
1:F:2177:GLN:CD	1:I:3354:LYS:HA	2.04	0.82
1:G:2624:ARG:CB	1:M:4999:LEU:HD23	1.35	0.82
1:G:2626:GLY:CA	1:M:5003:LYS:HG2	2.09	0.82
1:H:2956:ALA:HB2	1:K:4144:ALA:C	2.03	0.82
1:B:429:PRO:CB	2:D:1232:THR:OG1	2.24	0.82
2:D:1260:TRP:CZ2	1:I:3155:GLN:HB3	2.12	0.82
2:D:1320:ARG:HG3	1:G:2363:GLN:HG3	1.61	0.82
1:F:2175:VAL:HG22	1:I:3381:ASP:N	1.88	0.82
1:H:2958:LYS:HE2	1:K:4171:ALA:CB	2.10	0.82
1:M:4923:GLY:O	1:M:4951:LEU:HB2	1.79	0.82
1:C:1023:LEU:HD21	1:E:1766:ALA:C	2.03	0.82
1:C:1057:ILE:HD11	1:E:1833:ASP:CB	2.04	0.82
2:D:1213:ASP:HB2	1:J:3546:MET:HE1	0.87	0.82
2:D:1508:LEU:N	1:K:3951:GLY:C	2.37	0.82
1:J:3773:ILE:HG12	1:J:3810:LEU:HD11	1.61	0.82
1:A:301:LYS:HD3	1:L:4607:LYS:O	1.79	0.82
1:B:655:ILE:HG12	1:B:692:LEU:HD11	1.61	0.82
2:D:1324:PHE:CD2	1:G:2357:ARG:CD	2.57	0.82
2:D:1438:LEU:HB2	1:M:4735:PRO:HB3	1.58	0.82
2:D:1448:GLU:CD	1:K:3948:GLN:HB2	1.94	0.82
1:F:2228:ARG:HE	1:I:3397:LEU:N	1.76	0.82
1:A:221:GLY:O	1:A:249:LEU:HB2	1.79	0.82
1:B:617:GLY:O	1:B:645:LEU:HB2	1.79	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1023:LEU:HD23	1:E:1766:ALA:HA	1.59	0.82
2:D:1435:VAL:CG2	1:M:4736:ARG:C	2.51	0.82
1:M:4961:ILE:HG12	1:M:4998:LEU:HD11	1.61	0.82
1:A:31:ARG:HG3	2:D:1493:TYR:CD2	2.13	0.82
1:C:1025:LYS:N	1:E:1795:ALA:HB1	1.95	0.82
1:C:1030:ASP:N	1:E:1830:LEU:CD1	2.42	0.82
2:D:1464:ALA:CA	1:K:3944:ARG:CZ	2.52	0.82
1:F:2153:MET:HG3	1:I:3355:VAL:CA	2.09	0.82
1:K:4169:ILE:HG12	1:K:4206:LEU:HD11	1.61	0.82
2:D:1241:TYR:OH	1:E:1573:PHE:CE1	2.32	0.82
2:D:1438:LEU:HA	1:H:2762:PHE:CA	2.08	0.82
2:D:1440:TRP:CH2	1:H:2760:GLN:CD	2.57	0.82
2:D:1446:ASN:HA	1:K:3949:PHE:HE2	1.02	0.82
1:F:2231:LYS:HZ1	1:I:3400:GLN:CB	1.64	0.82
1:G:2625:ASP:CG	1:M:4966:VAL:O	2.22	0.82
1:H:2956:ALA:HB1	1:K:4141:LEU:O	1.79	0.82
1:H:3021:ASP:C	1:K:4211:LYS:CD	2.52	0.82
1:I:3341:MET:HE2	1:I:3367:LEU:HD11	1.54	0.82
1:I:3377:ILE:HG12	1:I:3414:LEU:HD11	1.61	0.82
2:D:1433:THR:HG21	1:M:4739:GLN:HE21	1.43	0.82
1:L:4565:ILE:HG12	1:L:4602:LEU:HD11	1.61	0.82
1:C:1022:GLU:OE1	1:E:1768:ALA:C	2.23	0.82
1:C:1052:LYS:O	1:E:1831:LEU:HG	1.79	0.82
2:D:1268:LEU:N	1:G:2362:PHE:HZ	1.78	0.82
1:F:2162:ALA:HA	1:I:3364:SER:OG	1.80	0.82
1:G:2570:PHE:HE2	1:M:4938:LYS:O	1.60	0.82
1:H:2983:ALA:O	1:K:4148:ASP:HB3	1.76	0.82
1:A:322:ILE:HG23	1:A:323:PHE:N	1.95	0.82
2:D:1272:ASP:HA	1:G:2359:PRO:HA	0.89	0.82
2:D:1338:GLN:OE1	1:F:1968:GLN:HG3	1.79	0.82
2:D:1448:GLU:CB	1:K:3947:GLN:N	2.42	0.82
1:E:1856:ILE:HG23	1:E:1857:PHE:N	1.95	0.82
1:F:2190:LYS:NZ	1:I:3392:SER:HB2	1.91	0.82
2:D:1411:GLY:CA	1:L:4345:PHE:CA	2.52	0.81
1:F:2198:LEU:CD2	1:I:3419:LYS:CB	2.57	0.81
1:F:2229:ASP:CG	1:I:3398:ARG:CA	2.52	0.81
1:K:4131:GLY:O	1:K:4159:LEU:HB2	1.79	0.81
2:D:1235:THR:HB	1:E:1764:GLU:OE2	1.79	0.81
2:D:1276:PHE:CA	1:G:2363:GLN:HB3	2.09	0.81
1:G:2648:ILE:HG23	1:G:2649:PHE:N	1.95	0.81
1:A:260:LYS:HZ1	1:L:4547:ARG:HH12	0.85	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:632:LYS:HG3	1:J:3751:VAL:CG1	2.10	0.81
1:C:1029:VAL:O	1:E:1793:ILE:C	2.19	0.81
2:D:1315:GLY:HA2	1:E:1570:PHE:HZ	1.06	0.81
2:D:1463:LEU:O	1:K:3944:ARG:HD2	1.80	0.81
1:F:2230:GLY:CA	1:I:3410:LEU:HD11	2.10	0.81
1:G:2583:ALA:HB1	1:G:2631:VAL:CG1	2.11	0.81
2:D:1365:GLY:O	1:F:1970:PHE:HB3	1.81	0.81
1:F:2155:THR:OG1	1:I:3353:MET:SD	2.37	0.81
1:F:2161:LEU:HB3	1:F:2165:MET:HE2	1.63	0.81
1:F:2178:VAL:HG11	1:I:3345:LEU:HD11	1.59	0.81
1:F:2187:ALA:HB1	1:F:2235:VAL:CG1	2.11	0.81
1:E:1765:LEU:HB3	1:E:1769:MET:HE2	1.63	0.81
1:F:2197:SER:OG	1:I:3421:VAL:HB	1.79	0.81
1:I:3375:ALA:HB1	1:I:3423:VAL:CG1	2.11	0.81
1:J:3836:ILE:HG23	1:J:3837:PHE:N	1.96	0.81
1:C:1032:GLN:O	1:E:1794:LYS:CE	2.27	0.81
2:D:1276:PHE:O	1:G:2362:PHE:CZ	2.33	0.81
1:F:2168:ASP:CB	1:I:3367:LEU:HD11	1.96	0.81
1:F:2203:ILE:HB	1:I:3377:ILE:CA	2.10	0.81
1:H:2953:LEU:HB3	1:H:2957:MET:HE2	1.63	0.81
1:H:2957:MET:HE3	1:K:4145:MET:O	1.79	0.81
1:H:2960:ASP:CA	1:K:4208:ARG:HD2	2.10	0.81
1:H:2981:ILE:HG12	1:H:3018:LEU:HD11	1.61	0.81
1:J:3735:GLY:O	1:J:3763:LEU:HB2	1.79	0.81
1:J:3771:ALA:HB1	1:J:3819:VAL:CG1	2.11	0.81
1:F:2150:LEU:CD1	1:I:3417:ASP:C	2.50	0.81
1:F:2230:GLY:O	1:I:3410:LEU:HD11	1.80	0.81
1:H:2958:LYS:HD3	1:K:4171:ALA:CB	2.09	0.81
1:H:2985:ASP:CA	1:K:4209:ASP:OD1	2.29	0.81
1:K:4141:LEU:HB3	1:K:4145:MET:HE2	1.63	0.81
2:D:1235:THR:CG2	1:E:1764:GLU:OE2	2.28	0.81
2:D:1320:ARG:HB2	1:G:2363:GLN:CG	2.11	0.81
1:F:2150:LEU:CD1	1:I:3418:GLY:CA	2.54	0.81
1:F:2168:ASP:CB	1:I:3367:LEU:CD1	2.38	0.81
1:F:2213:VAL:HA	1:I:3419:LYS:HZ1	1.44	0.81
1:L:4563:ALA:HB1	1:L:4611:VAL:CG1	2.11	0.81
1:A:34:ARG:CB	2:D:1533:GLN:O	2.29	0.81
1:A:301:LYS:HZ1	1:L:4601:GLY:C	1.84	0.81
2:D:1368:VAL:HG12	1:F:1965:ASN:HA	1.59	0.81
2:D:1406:ALA:O	1:F:1963:PRO:HD2	1.81	0.81
1:F:2173:ALA:HB1	1:I:3379:ALA:O	1.01	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:2224:LEU:HD22	1:I:3414:LEU:CB	2.11	0.81
1:G:2557:LEU:HB3	1:G:2561:MET:HE2	1.63	0.81
1:H:2953:LEU:HD22	1:K:4146:LYS:H	1.44	0.81
1:H:3071:ILE:HG23	1:H:3073:LEU:HD13	1.63	0.81
1:A:298:ARG:O	1:L:4602:LEU:HD13	1.79	0.81
2:D:1210:TYR:C	1:J:3554:PHE:CE1	2.58	0.81
1:E:1793:ILE:HG12	1:E:1830:LEU:HD11	1.61	0.81
1:F:2172:GLY:HA2	1:I:3378:LYS:HG2	1.63	0.81
1:G:2562:LYS:HB2	1:M:4946:PHE:CE1	2.15	0.81
1:B:745:ILE:HG23	1:B:747:LEU:HD13	1.63	0.80
2:D:1306:ASP:HB2	1:H:2759:GLN:HE22	1.39	0.80
2:D:1309:MET:HE2	1:F:1967:GLN:HG3	1.62	0.80
2:D:1469:LYS:C	1:M:4738:PHE:CD2	2.59	0.80
1:E:1791:ALA:HB1	1:E:1839:VAL:CG1	2.11	0.80
1:F:2192:GLY:O	1:I:3363:VAL:CA	2.22	0.80
1:F:2196:THR:HG1	1:I:3372:ALA:HB1	1.44	0.80
1:I:3349:LEU:HB3	1:I:3353:MET:HE2	1.63	0.80
1:M:5051:ILE:HG23	1:M:5053:LEU:HD13	1.63	0.80
1:A:36:PHE:CD2	2:D:1534:PHE:OXT	2.34	0.80
1:C:1049:ALA:HB1	1:C:1097:VAL:CG1	2.11	0.80
1:C:1141:ILE:HG23	1:C:1143:LEU:HD13	1.63	0.80
2:D:1248:ILE:CA	1:I:3152:ARG:HB3	1.79	0.80
2:D:1360:ALA:O	1:H:2757:ASN:ND2	2.03	0.80
1:E:1566:MET:CE	1:E:1568:ARG:HD3	2.11	0.80
1:F:2252:ILE:HG23	1:F:2253:PHE:N	1.95	0.80
1:G:2624:ARG:CD	1:M:4999:LEU:HD11	2.12	0.80
1:G:2624:ARG:H	1:M:5000:ARG:N	1.79	0.80
1:H:2754:MET:CE	1:H:2756:ARG:HD3	2.11	0.80
1:H:3044:ILE:HG23	1:H:3045:PHE:N	1.95	0.80
1:B:428:MET:CE	1:B:430:ARG:HD3	2.11	0.80
1:C:1056:VAL:CG1	1:E:1835:LYS:CE	2.49	0.80
1:C:1089:LEU:HD23	1:E:1836:GLN:C	1.96	0.80
2:D:1333:PHE:CD1	1:G:2364:GLN:CG	2.64	0.80
1:F:2153:MET:O	1:I:3355:VAL:HG13	1.81	0.80
1:F:2177:GLN:HA	1:I:3350:ALA:HB1	1.63	0.80
1:F:2193:ASP:OD2	1:I:3361:ALA:O	1.99	0.80
1:G:2585:ILE:HG12	1:G:2622:LEU:HD11	1.61	0.80
1:G:2675:ILE:HG23	1:G:2677:LEU:HD13	1.63	0.80
1:K:4232:ILE:HG23	1:K:4233:PHE:N	1.95	0.80
1:A:34:ARG:O	2:D:1534:PHE:N	2.15	0.80
1:A:234:ALA:O	1:L:4541:MET:HE2	1.82	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:2279:ILE:HG23	1:F:2281:LEU:HD13	1.63	0.80
1:G:2564:ASP:OD2	1:M:4946:PHE:HE2	1.65	0.80
1:H:2957:MET:CG	1:K:4145:MET:C	2.50	0.80
1:L:4537:LEU:HB3	1:L:4541:MET:HE2	1.63	0.80
1:M:4959:ALA:HB1	1:M:5007:VAL:CG1	2.11	0.80
1:M:5024:ILE:HG23	1:M:5025:PHE:N	1.95	0.80
2:D:1388:SER:CB	1:F:1968:GLN:OE1	2.30	0.80
1:E:1883:ILE:HG23	1:E:1885:LEU:HD13	1.63	0.80
1:G:2563:VAL:HG22	1:M:4937:MET:HA	1.64	0.80
1:B:430:ARG:NH2	2:D:1192:TYR:HE2	1.35	0.80
1:F:2232:GLN:HE22	1:I:3422:ASN:CA	1.95	0.80
1:K:3942:MET:CE	1:K:3944:ARG:HD3	2.12	0.80
1:K:4167:ALA:HB1	1:K:4215:VAL:CG1	2.11	0.80
1:C:1023:LEU:HB3	1:C:1027:MET:HE2	1.63	0.80
1:F:2213:VAL:HG13	1:I:3419:LYS:HE3	1.62	0.80
1:B:435:PHE:C	2:D:1191:VAL:N	2.38	0.80
1:B:653:ALA:HB1	1:B:701:VAL:CG1	2.11	0.80
1:C:824:MET:CE	1:C:826:ARG:HD3	2.11	0.80
2:D:1302:THR:HG22	1:K:3949:PHE:CZ	2.16	0.80
2:D:1463:LEU:HB3	1:K:3942:MET:SD	2.21	0.80
1:F:2184:ALA:C	1:I:3359:ARG:HE	1.88	0.80
1:A:31:ARG:H	2:D:1493:TYR:HA	1.45	0.80
1:A:33:PRO:HB3	2:D:1533:GLN:N	1.97	0.80
1:A:263:ASP:HA	1:L:4604:ARG:HG3	1.60	0.80
1:A:300:GLY:CA	1:L:4608:GLN:H	1.59	0.80
2:D:1469:LYS:O	1:M:4738:PHE:CD1	2.35	0.80
1:F:2174:PHE:O	1:I:3380:GLY:HA2	1.81	0.80
1:G:2624:ARG:C	1:M:4999:LEU:HD23	2.01	0.80
1:J:3546:MET:CE	1:J:3548:ARG:HD3	2.11	0.80
2:D:1425:GLN:HA	1:L:4345:PHE:CZ	2.16	0.80
1:F:2170:GLN:N	1:I:3368:PRO:HD3	1.97	0.80
1:F:2225:GLY:N	1:I:3421:VAL:HG23	1.96	0.80
1:G:2563:VAL:HG22	1:M:4937:MET:CA	2.11	0.80
1:H:2979:ALA:HB1	1:H:3027:VAL:CG1	2.11	0.80
1:I:3440:ILE:HG23	1:I:3441:PHE:N	1.95	0.80
1:L:4628:ILE:HG23	1:L:4629:PHE:N	1.95	0.80
1:A:231:LEU:HB3	1:A:235:MET:HE2	1.63	0.79
1:A:257:ALA:HB1	1:A:305:VAL:CG1	2.11	0.79
1:B:434:GLN:O	2:D:1192:TYR:O	1.98	0.79
1:B:435:PHE:C	2:D:1191:VAL:H	1.90	0.79
2:D:1391:THR:C	1:H:2755:PRO:CG	2.53	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:2177:GLN:HG3	1:I:3355:VAL:N	1.97	0.79
1:F:2178:VAL:CG2	1:I:3358:GLN:HA	2.12	0.79
1:F:2193:ASP:CG	1:I:3383:ILE:HD13	2.07	0.79
1:A:264:VAL:N	1:L:4604:ARG:CG	2.35	0.79
1:C:1025:LYS:HB3	1:E:1780:SER:C	2.06	0.79
2:D:1314:ASN:O	1:F:1969:PHE:CE1	2.32	0.79
2:D:1488:VAL:HA	1:K:3941:ARG:HB3	1.65	0.79
1:H:3019:LEU:HG	1:K:4211:LYS:HZ1	0.98	0.79
1:M:4933:LEU:HB3	1:M:4937:MET:HE2	1.63	0.79
1:A:31:ARG:NH1	2:D:1458:GLY:O	2.14	0.79
1:C:1037:VAL:O	1:E:1831:LEU:HD23	1.81	0.79
2:D:1221:GLN:CG	1:J:3553:PHE:O	2.31	0.79
2:D:1278:TYR:CE2	1:E:1570:PHE:HB2	2.10	0.79
2:D:1446:ASN:ND2	1:M:4739:GLN:HB3	1.97	0.79
1:G:2562:LYS:O	1:M:4946:PHE:HZ	1.65	0.79
1:B:627:LEU:HB3	1:B:631:MET:HE2	1.63	0.79
1:C:1036:PHE:HB2	1:E:1832:ARG:HH11	1.46	0.79
1:F:2153:MET:HB3	1:I:3353:MET:C	2.07	0.79
1:H:3020:ARG:O	1:K:4211:LYS:CB	2.29	0.79
1:I:3150:MET:CE	1:I:3152:ARG:HD3	2.11	0.79
1:J:3863:ILE:HG23	1:J:3865:LEU:HD13	1.63	0.79
1:C:1144:LYS:HG2	1:C:1145:LYS:H	1.48	0.79
2:D:1272:ASP:O	1:G:2360:ARG:CD	2.30	0.79
1:I:3339:GLY:O	1:I:3367:LEU:HB2	1.78	0.79
2:D:1275:SER:HA	1:G:2362:PHE:CE2	2.18	0.79
2:D:1306:ASP:HB2	1:H:2759:GLN:CD	2.06	0.79
1:E:1886:LYS:HG2	1:E:1887:LYS:H	1.48	0.79
1:F:2194:VAL:O	1:I:3377:ILE:HD13	1.82	0.79
1:G:2358:MET:CE	1:G:2360:ARG:HD3	2.11	0.79
1:L:4338:MET:CE	1:L:4340:ARG:HD3	2.11	0.79
1:A:299:ASP:N	1:L:4607:LYS:HB2	1.98	0.79
1:A:349:ILE:HG23	1:A:351:LEU:HD13	1.63	0.79
1:B:429:PRO:O	2:D:1197:ASN:HB2	1.82	0.79
2:D:1404:ASP:C	1:F:1962:MET:N	2.40	0.79
1:F:2167:VAL:CG1	1:I:3341:MET:C	2.51	0.79
1:F:2231:LYS:CE	1:I:3397:LEU:C	2.56	0.79
1:G:2678:LYS:HG2	1:G:2679:LYS:H	1.48	0.79
1:H:2957:MET:HE1	1:K:4146:LYS:HB2	1.63	0.79
1:A:298:ARG:CA	1:L:4569:ASP:CG	2.56	0.79
1:B:619:MET:CE	1:B:645:LEU:HD21	2.13	0.79
2:D:1389:LYS:HE3	1:F:1960:PRO:HA	1.59	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:2168:ASP:CG	1:I:3341:MET:SD	2.66	0.79
1:I:3467:ILE:HG23	1:I:3469:LEU:HD13	1.63	0.79
1:L:4655:ILE:HG23	1:L:4657:LEU:HD13	1.63	0.79
1:A:223:MET:CE	1:A:249:LEU:HD21	2.13	0.79
2:D:1272:ASP:CA	1:G:2358:MET:HG3	2.12	0.79
2:D:1387:SER:O	1:F:1965:ASN:CA	2.30	0.79
1:F:2229:ASP:C	1:I:3338:LEU:CB	2.48	0.79
1:J:3745:LEU:HB3	1:J:3749:MET:HE2	1.63	0.79
1:B:434:GLN:HB2	2:D:1230:GLY:HA2	1.65	0.78
1:C:1091:ASP:HA	1:E:1828:LEU:O	1.83	0.78
2:D:1360:ALA:HB2	1:H:2755:PRO:C	2.07	0.78
2:D:1369:GLY:CA	1:F:1967:GLN:NE2	2.43	0.78
1:F:2153:MET:CE	1:I:3354:LYS:HB2	2.11	0.78
1:A:29:THR:O	2:D:1493:TYR:C	2.26	0.78
1:A:33:PRO:CB	2:D:1533:GLN:N	2.46	0.78
1:B:748:LYS:HG2	1:B:749:LYS:H	1.48	0.78
2:D:1272:ASP:HB3	1:G:2358:MET:HG3	0.80	0.78
1:F:1962:MET:CE	1:F:1964:ARG:HD3	2.11	0.78
1:F:2232:GLN:NE2	1:I:3422:ASN:HA	1.97	0.78
1:H:2960:ASP:H	1:K:4208:ARG:HD2	1.49	0.78
1:J:3737:MET:CE	1:J:3763:LEU:HD21	2.13	0.78
1:B:430:ARG:HA	2:D:1197:ASN:CB	2.12	0.78
1:C:1026:ALA:O	1:E:1778:PHE:C	2.26	0.78
1:F:2193:ASP:OD2	1:I:3361:ALA:C	2.27	0.78
1:J:3866:LYS:HG2	1:J:3867:LYS:H	1.48	0.78
1:B:436:PHE:N	2:D:1192:TYR:O	2.16	0.78
1:C:1053:ALA:HB2	1:E:1773:ALA:CB	2.06	0.78
1:C:1088:LEU:HB3	1:E:1834:GLY:C	2.08	0.78
1:C:1093:LYS:HE2	1:E:1836:GLN:OE1	1.82	0.78
2:D:1446:ASN:HD21	1:M:4739:GLN:HB2	1.36	0.78
1:F:2153:MET:HG3	1:I:3355:VAL:HA	1.64	0.78
1:A:264:VAL:O	1:L:4604:ARG:NE	2.17	0.78
1:C:1015:MET:CE	1:C:1041:LEU:HD21	2.13	0.78
2:D:1244:TRP:CZ3	1:I:3150:MET:N	2.51	0.78
1:F:2224:LEU:HD13	1:I:3414:LEU:CB	2.14	0.78
1:F:2237:LEU:CD2	1:I:3417:ASP:C	2.50	0.78
1:H:2945:MET:CE	1:H:2971:LEU:HD21	2.13	0.78
1:H:2958:LYS:HB3	1:K:4171:ALA:CB	2.14	0.78
2:D:1406:ALA:C	1:F:1963:PRO:HD2	2.09	0.78
1:E:1567:PRO:HD3	1:I:3149:ARG:HD2	1.64	0.78
2:D:1276:PHE:HB2	1:G:2362:PHE:CD1	1.87	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:1369:GLY:C	1:F:1967:GLN:HE22	1.84	0.78
2:D:1409:TYR:CB	1:L:4342:PHE:C	2.48	0.78
2:D:1426:TYR:N	1:L:4345:PHE:HE2	1.82	0.78
1:F:2192:GLY:HA2	1:I:3342:GLY:CA	2.14	0.78
1:G:2625:ASP:O	1:M:5003:LYS:HB2	1.83	0.78
1:M:4925:MET:CE	1:M:4951:LEU:HD21	2.13	0.78
1:C:1056:VAL:HG22	1:E:1832:ARG:HB2	0.85	0.78
1:F:2171:ARG:HH21	1:I:3372:ALA:CB	1.97	0.78
1:F:2178:VAL:O	1:I:3358:GLN:CA	2.32	0.78
1:G:2549:MET:CE	1:G:2575:LEU:HD21	2.13	0.78
1:K:4259:ILE:HG23	1:K:4261:LEU:HD13	1.63	0.78
1:A:300:GLY:N	1:L:4608:GLN:N	2.24	0.78
1:B:618:ILE:HD12	1:B:619:MET:N	1.99	0.78
1:B:718:ILE:HG23	1:B:719:PHE:N	1.95	0.78
1:C:1114:ILE:HG23	1:C:1115:PHE:N	1.95	0.78
2:D:1318:THR:C	1:G:2363:GLN:HB2	2.06	0.78
2:D:1366:ASP:N	1:F:1970:PHE:CG	2.52	0.78
1:F:2152:ILE:HD12	1:F:2153:MET:N	1.99	0.78
1:F:2237:LEU:CD2	1:I:3417:ASP:CB	2.62	0.78
1:H:3023:LYS:HG3	1:K:4209:ASP:O	1.84	0.78
1:C:1025:LYS:CB	1:E:1795:ALA:CB	2.28	0.78
2:D:1321:ASN:N	1:G:2364:GLN:HB3	1.77	0.78
2:D:1391:THR:CG2	1:H:2755:PRO:HG2	2.14	0.78
1:E:1756:ILE:HD12	1:E:1757:MET:N	1.99	0.78
1:G:2567:ARG:NH2	1:M:5000:ARG:NH1	2.31	0.78
1:I:3340:ILE:HD12	1:I:3341:MET:N	1.99	0.78
1:I:3470:LYS:HG2	1:I:3471:LYS:H	1.48	0.78
1:A:260:LYS:HD3	1:L:4544:ASP:C	2.09	0.77
1:B:430:ARG:HD3	2:D:1195:ASP:CB	2.11	0.77
2:D:1272:ASP:HB2	1:G:2358:MET:CG	2.10	0.77
1:E:1757:MET:CE	1:E:1783:LEU:HD21	2.13	0.77
1:H:2957:MET:CG	1:K:4147:VAL:CG1	2.59	0.77
1:I:3341:MET:CE	1:I:3367:LEU:HD21	2.13	0.77
1:L:4529:MET:CE	1:L:4555:LEU:HD21	2.13	0.77
1:C:1023:LEU:CA	1:E:1778:PHE:HZ	1.87	0.77
1:C:1028:LYS:HG2	1:E:1780:SER:H	1.48	0.77
2:D:1404:ASP:O	1:F:1962:MET:N	2.17	0.77
2:D:1438:LEU:CA	1:H:2762:PHE:CA	2.59	0.77
2:D:1443:LYS:HA	1:M:4740:GLN:O	1.85	0.77
1:F:2175:VAL:CG2	1:I:3380:GLY:O	2.31	0.77
1:F:2178:VAL:N	1:I:3358:GLN:HG2	1.99	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:2983:ALA:C	1:K:4148:ASP:CB	2.38	0.77
1:B:434:GLN:NE2	2:D:1230:GLY:CA	2.47	0.77
1:C:1014:ILE:HD12	1:C:1015:MET:N	1.99	0.77
1:C:1090:ARG:HH11	1:E:1800:THR:HB	1.48	0.77
2:D:1211:PHE:HB2	1:J:3545:ARG:NH1	2.00	0.77
1:F:2233:VAL:CG2	1:I:3385:SER:O	2.32	0.77
1:K:4262:LYS:HG2	1:K:4263:LYS:H	1.48	0.77
1:F:2153:MET:CE	1:F:2179:LEU:HD21	2.13	0.77
1:F:2153:MET:HB2	1:I:3355:VAL:CA	1.97	0.77
1:G:2548:ILE:HD12	1:G:2549:MET:N	1.99	0.77
1:G:2624:ARG:NE	1:M:4941:ALA:HB3	1.97	0.77
1:L:4528:ILE:HD12	1:L:4529:MET:N	1.99	0.77
2:D:1425:GLN:O	1:K:3947:GLN:HA	1.83	0.77
2:D:1432:ALA:N	1:M:4740:GLN:CB	2.25	0.77
1:F:2230:GLY:N	1:I:3338:LEU:CB	2.44	0.77
1:F:2231:LYS:N	1:I:3338:LEU:CD2	2.46	0.77
1:F:2153:MET:CG	1:I:3355:VAL:HA	2.10	0.77
1:F:2195:ILE:CG2	1:I:3414:LEU:CD1	2.22	0.77
1:A:298:ARG:O	1:L:4569:ASP:OD2	2.03	0.77
2:D:1247:GLN:HB2	1:I:3153:ASN:CG	2.10	0.77
2:D:1440:TRP:CB	1:M:4740:GLN:HE22	1.93	0.77
1:E:1566:MET:O	1:I:3149:ARG:HD2	1.85	0.77
1:F:2225:GLY:C	1:I:3414:LEU:CD1	2.57	0.77
1:A:29:THR:HG22	2:D:1494:PHE:CE2	2.20	0.77
1:A:301:LYS:HG3	1:L:4603:LEU:HA	1.64	0.77
1:C:1028:LYS:HZ3	1:E:1757:MET:N	1.81	0.77
2:D:1214:ASN:HB3	1:J:3548:ARG:CZ	2.15	0.77
2:D:1438:LEU:CA	1:H:2762:PHE:C	2.54	0.77
1:F:2196:THR:OG1	1:I:3377:ILE:HD12	1.85	0.77
1:F:2224:LEU:HD22	1:I:3414:LEU:HB3	1.65	0.77
1:G:2627:LYS:O	1:M:5001:ASP:CB	2.33	0.77
1:J:3736:ILE:HD12	1:J:3737:MET:N	1.99	0.77
1:K:4133:MET:CE	1:K:4159:LEU:HD21	2.13	0.77
1:A:31:ARG:CG	2:D:1493:TYR:CG	2.67	0.77
1:A:261:ALA:HB2	1:L:4544:ASP:OD1	1.85	0.77
1:A:297:LEU:H	1:L:4604:ARG:HB3	1.47	0.77
1:C:1036:PHE:CZ	1:E:1796:GLY:O	2.38	0.77
1:C:1056:VAL:HA	1:E:1832:ARG:HB3	1.67	0.77
2:D:1505:LYS:HE3	1:J:3552:GLN:NE2	1.99	0.77
1:F:2230:GLY:CA	1:I:3338:LEU:CG	2.61	0.77
1:H:2944:ILE:HD12	1:H:2945:MET:N	1.99	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1057:ILE:CD1	1:E:1833:ASP:CA	2.64	0.76
2:D:1324:PHE:CZ	1:G:2357:ARG:HG3	2.20	0.76
1:F:2227:LEU:HG	1:I:3338:LEU:C	2.09	0.76
1:M:4924:ILE:HD12	1:M:4925:MET:N	2.00	0.76
1:A:222:ILE:HD12	1:A:223:MET:N	1.99	0.76
1:C:1022:GLU:OE1	1:E:1768:ALA:O	2.03	0.76
2:D:1405:ARG:HH11	1:F:1962:MET:HE3	1.45	0.76
1:F:2191:ALA:H	1:I:3345:LEU:CG	1.97	0.76
1:F:2205:SER:O	1:I:3378:LYS:CD	2.33	0.76
1:C:1022:GLU:OE1	1:E:1769:MET:CG	2.33	0.76
2:D:1368:VAL:HG12	1:F:1965:ASN:CA	2.15	0.76
2:D:1451:ALA:CB	1:K:3942:MET:SD	2.66	0.76
1:F:2191:ALA:HB2	1:I:3345:LEU:HA	1.66	0.76
1:F:2194:VAL:CG1	1:I:3366:VAL:HB	2.14	0.76
1:K:4132:ILE:HD12	1:K:4133:MET:N	1.99	0.76
1:L:4658:LYS:HG2	1:L:4659:LYS:H	1.48	0.76
2:D:1266:ALA:HB1	1:E:1573:PHE:C	2.03	0.76
2:D:1387:SER:O	1:F:1964:ARG:C	2.27	0.76
2:D:1388:SER:OG	1:F:1968:GLN:CD	2.28	0.76
2:D:1391:THR:HA	1:F:1961:ARG:NH1	2.01	0.76
2:D:1446:ASN:ND2	1:M:4739:GLN:OE1	2.18	0.76
1:F:2282:LYS:HG2	1:F:2283:LYS:H	1.48	0.76
1:H:2957:MET:HG2	1:K:4147:VAL:CG1	2.05	0.76
1:M:5054:LYS:HG2	1:M:5055:LYS:H	1.48	0.76
1:A:34:ARG:HB3	2:D:1497:ASN:ND2	1.97	0.76
1:A:297:LEU:N	1:L:4604:ARG:HB3	2.00	0.76
1:C:1090:ARG:NH1	1:E:1800:THR:HB	2.00	0.76
2:D:1470:GLY:HA2	1:M:4738:PHE:HB2	1.50	0.76
1:F:2192:GLY:C	1:I:3363:VAL:CA	2.47	0.76
1:F:2194:VAL:CG2	1:I:3365:GLN:C	2.49	0.76
1:A:352:LYS:HG2	1:A:353:LYS:H	1.48	0.76
1:B:434:GLN:HE21	2:D:1231:GLU:H	1.30	0.76
2:D:1221:GLN:NE2	1:J:3553:PHE:HB2	1.98	0.76
2:D:1322:THR:O	1:G:2359:PRO:HD2	1.86	0.76
1:E:1666:ASN:C	1:E:1666:ASN:HD22	1.94	0.76
1:M:4834:ASN:HD22	1:M:4834:ASN:C	1.94	0.76
2:D:1320:ARG:HB2	1:G:2361:ASN:OD1	1.86	0.76
1:H:3074:LYS:HG2	1:H:3075:LYS:H	1.48	0.76
2:D:1260:TRP:HZ3	1:I:3154:PHE:CD1	2.03	0.76
2:D:1277:ASP:HA	1:E:1573:PHE:CD2	1.78	0.76
2:D:1424:ALA:HA	1:K:3946:PHE:N	2.01	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:1508:LEU:HG	1:K:3951:GLY:HA2	1.67	0.76
1:F:2178:VAL:HG11	1:I:3358:GLN:C	2.06	0.76
2:D:1404:ASP:O	1:F:1961:ARG:C	2.29	0.76
1:F:2167:VAL:CG1	1:I:3341:MET:O	2.33	0.76
1:B:431:ASN:CA	2:D:1232:THR:HA	2.14	0.76
1:C:1092:GLY:N	1:E:1836:GLN:CB	2.49	0.76
2:D:1266:ALA:HB2	1:E:1572:GLN:HG2	1.66	0.76
1:F:2150:LEU:HD11	1:I:3415:LEU:HA	1.66	0.76
1:K:4112:VAL:O	1:K:4116:THR:HB	1.86	0.76
2:D:1506:ILE:HD12	1:K:3941:ARG:HH12	0.66	0.75
1:E:1828:LEU:H	1:E:1828:LEU:HD12	1.51	0.75
1:F:2178:VAL:CG1	1:I:3358:GLN:CB	2.41	0.75
1:H:3016:LEU:H	1:H:3016:LEU:HD12	1.51	0.75
1:J:3646:ASN:HD22	1:J:3646:ASN:C	1.94	0.75
1:M:4996:LEU:H	1:M:4996:LEU:HD12	1.51	0.75
1:A:132:ASN:C	1:A:132:ASN:HD22	1.94	0.75
1:C:1086:LEU:H	1:C:1086:LEU:HD12	1.52	0.75
2:D:1235:THR:HG21	1:E:1764:GLU:CD	2.10	0.75
1:G:2458:ASN:HD22	1:G:2458:ASN:C	1.94	0.75
1:H:2924:VAL:O	1:H:2928:THR:HB	1.86	0.75
1:H:2958:LYS:CE	1:K:4171:ALA:CB	2.64	0.75
1:J:3716:VAL:O	1:J:3720:THR:HB	1.86	0.75
1:C:924:ASN:C	1:C:924:ASN:HD22	1.94	0.75
1:C:1089:LEU:CG	1:E:1836:GLN:O	2.14	0.75
2:D:1260:TRP:CZ3	1:I:3154:PHE:HD1	1.99	0.75
2:D:1385:ILE:CG2	1:L:4341:ASN:CG	2.44	0.75
2:D:1389:LYS:HG2	1:F:1961:ARG:CG	2.15	0.75
1:F:2174:PHE:C	1:I:3380:GLY:CA	2.60	0.75
1:J:3808:LEU:HD12	1:J:3808:LEU:H	1.52	0.75
1:K:4042:ASN:C	1:K:4042:ASN:HD22	1.94	0.75
1:M:4886:LEU:O	1:M:4889:ASP:HB3	1.87	0.75
1:K:4204:LEU:H	1:K:4204:LEU:HD12	1.52	0.75
1:C:1027:MET:O	1:E:1779:VAL:HG23	0.83	0.75
1:C:1028:LYS:HD2	1:E:1758:GLY:CA	2.04	0.75
2:D:1389:LYS:HZ1	1:F:1960:PRO:HA	1.40	0.75
2:D:1523:ASP:HA	1:J:3546:MET:HG3	0.76	0.75
1:F:2062:ASN:HD22	1:F:2062:ASN:C	1.94	0.75
1:F:2175:VAL:CB	1:I:3362:PHE:HA	2.15	0.75
1:F:2198:LEU:CD2	1:I:3419:LYS:HB3	2.16	0.75
1:G:2588:GLY:CA	1:M:4939:VAL:C	2.57	0.75
1:H:3020:ARG:O	1:K:4211:LYS:N	2.03	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:3023:LYS:CG	1:K:4210:GLY:HA3	2.15	0.75
1:I:3250:ASN:HD22	1:I:3250:ASN:C	1.94	0.75
1:L:4490:LEU:O	1:L:4493:ASP:HB3	1.87	0.75
1:A:260:LYS:NZ	1:L:4547:ARG:CZ	2.50	0.75
1:B:430:ARG:HA	2:D:1197:ASN:HB2	1.68	0.75
2:D:1272:ASP:O	1:G:2360:ARG:CG	2.35	0.75
2:D:1272:ASP:HB2	1:G:2358:MET:HG2	1.64	0.75
2:D:1369:GLY:H	1:F:1967:GLN:HE21	1.33	0.75
2:D:1438:LEU:C	1:H:2762:PHE:HA	2.11	0.75
2:D:1468:SER:HB2	1:K:3949:PHE:HZ	1.42	0.75
1:F:2132:VAL:O	1:F:2136:THR:HB	1.86	0.75
1:F:2231:LYS:HZ1	1:I:3400:GLN:HB2	0.92	0.75
1:A:301:LYS:HZ3	1:L:4601:GLY:HA2	1.48	0.75
1:C:994:VAL:O	1:C:998:THR:HB	1.86	0.75
1:C:1089:LEU:CD1	1:E:1837:VAL:HG22	2.14	0.75
2:D:1447:PHE:CZ	1:K:3946:PHE:CB	2.65	0.75
1:F:2198:LEU:HD23	1:I:3419:LYS:HA	1.66	0.75
1:F:2225:GLY:O	1:I:3377:ILE:HG12	1.87	0.75
1:L:4600:LEU:H	1:L:4600:LEU:HD12	1.52	0.75
1:A:202:VAL:O	1:A:206:THR:HB	1.86	0.75
1:A:294:LEU:H	1:A:294:LEU:HD12	1.52	0.75
1:B:598:VAL:O	1:B:602:THR:HB	1.86	0.75
1:C:976:LEU:O	1:C:979:ASP:HB3	1.87	0.75
1:C:1036:PHE:CG	1:E:1832:ARG:HA	2.17	0.75
2:D:1272:ASP:H	1:G:2359:PRO:HB3	1.50	0.75
2:D:1425:GLN:O	1:K:3946:PHE:CD1	2.39	0.75
2:D:1444:ALA:HB3	1:M:4739:GLN:C	2.06	0.75
2:D:1505:LYS:HE3	1:J:3552:GLN:HE22	1.50	0.75
1:F:2175:VAL:CG1	1:I:3362:PHE:HA	2.17	0.75
1:G:2510:LEU:O	1:G:2513:ASP:HB3	1.87	0.75
1:G:2561:MET:C	1:M:4937:MET:H	1.94	0.75
1:E:1718:LEU:O	1:E:1721:ASP:HB3	1.87	0.75
1:F:2170:GLN:HG3	1:I:3367:LEU:HD23	1.69	0.75
1:H:3020:ARG:N	1:K:4211:LYS:HE2	2.01	0.75
1:A:28:ASN:HB3	2:D:1458:GLY:CA	2.16	0.74
2:D:1259:SER:CA	1:I:3154:PHE:HA	2.17	0.74
2:D:1267:GLY:N	1:E:1573:PHE:O	2.17	0.74
2:D:1447:PHE:O	1:K:3948:GLN:CA	2.34	0.74
1:E:1736:VAL:O	1:E:1740:THR:HB	1.86	0.74
1:F:2196:THR:HG22	1:I:3376:GLY:C	2.11	0.74
1:F:2198:LEU:CD2	1:I:3419:LYS:CA	2.65	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:2203:ILE:O	1:I:3378:LYS:CG	2.32	0.74
1:F:2231:LYS:NZ	1:I:3400:GLN:HB3	1.97	0.74
1:M:4904:VAL:O	1:M:4908:THR:HB	1.86	0.74
1:C:1027:MET:N	1:E:1779:VAL:C	2.45	0.74
1:C:1093:LYS:HG2	1:E:1836:GLN:HE21	0.93	0.74
2:D:1448:GLU:HB2	1:K:3947:GLN:H	1.52	0.74
1:F:2169:ALA:HB1	1:I:3370:SER:HB3	1.66	0.74
1:F:2171:ARG:NE	1:I:3366:VAL:CG2	2.50	0.74
1:F:2210:ARG:HA	1:I:3416:ARG:NH2	1.68	0.74
1:F:2230:GLY:CA	1:I:3338:LEU:HB2	2.17	0.74
1:G:2627:LYS:CG	1:M:4999:LEU:HG	2.17	0.74
1:H:2906:LEU:O	1:H:2909:ASP:HB3	1.87	0.74
1:H:2957:MET:HE2	1:K:4145:MET:C	2.11	0.74
1:H:2958:LYS:HE2	1:K:4171:ALA:HB1	1.66	0.74
1:C:1088:LEU:CD2	1:E:1834:GLY:C	2.57	0.74
2:D:1275:SER:N	1:G:2361:ASN:C	2.45	0.74
2:D:1463:LEU:HB3	1:K:3942:MET:HE3	0.75	0.74
2:D:1482:ILE:CD1	1:M:4738:PHE:CD2	2.71	0.74
1:I:3320:VAL:O	1:I:3324:THR:HB	1.86	0.74
1:L:4337:ARG:C	1:L:4338:MET:HE3	2.13	0.74
1:B:580:LEU:O	1:B:583:ASP:HB3	1.87	0.74
2:D:1324:PHE:CD2	1:G:2357:ARG:HB3	2.22	0.74
1:F:2114:LEU:O	1:F:2117:ASP:HB3	1.87	0.74
1:F:2227:LEU:HD12	1:I:3372:ALA:HB2	0.75	0.74
1:J:3545:ARG:C	1:J:3546:MET:HE3	2.13	0.74
1:L:4438:ASN:C	1:L:4438:ASN:HD22	1.94	0.74
1:L:4508:VAL:O	1:L:4512:THR:HB	1.86	0.74
1:B:430:ARG:NE	2:D:1197:ASN:H	1.84	0.74
1:C:1034:GLY:C	1:E:1832:ARG:HE	1.95	0.74
1:C:1088:LEU:HD22	1:E:1834:GLY:N	2.02	0.74
2:D:1366:ASP:HA	1:F:1968:GLN:O	1.86	0.74
2:D:1444:ALA:HB2	1:M:4737:ASN:C	2.11	0.74
1:E:1565:ARG:C	1:E:1566:MET:HE3	2.13	0.74
1:H:2854:ASN:C	1:H:2854:ASN:HD22	1.94	0.74
1:B:434:GLN:HE21	2:D:1230:GLY:CA	2.00	0.74
1:C:1057:ILE:HD11	1:E:1833:ASP:C	2.12	0.74
2:D:1389:LYS:HA	1:F:1961:ARG:C	2.13	0.74
1:F:2192:GLY:C	1:I:3342:GLY:HA3	2.12	0.74
1:G:2620:LEU:H	1:G:2620:LEU:HD12	1.52	0.74
1:G:2626:GLY:HA2	1:M:5001:ASP:N	2.00	0.74
1:H:2753:ARG:C	1:H:2754:MET:HE3	2.13	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:690:LEU:H	1:B:690:LEU:HD12	1.52	0.74
1:C:1055:ASP:C	1:E:1832:ARG:N	2.41	0.74
2:D:1319:TYR:O	1:G:2364:GLN:HA	1.87	0.74
2:D:1429:THR:CA	1:M:4741:PHE:CE2	2.70	0.74
2:D:1440:TRP:CZ2	1:H:2760:GLN:CD	2.65	0.74
2:D:1505:LYS:CE	1:J:3552:GLN:NE2	2.51	0.74
2:D:1524:ASN:O	1:J:3545:ARG:CB	2.35	0.74
1:I:3149:ARG:C	1:I:3150:MET:HE3	2.12	0.74
1:C:823:ARG:C	1:C:824:MET:HE3	2.13	0.74
2:D:1221:GLN:CG	1:J:3553:PHE:C	2.61	0.74
2:D:1389:LYS:HG2	1:F:1961:ARG:CA	2.12	0.74
1:G:2588:GLY:C	1:M:4940:ASP:N	2.45	0.74
1:H:3019:LEU:HD13	1:K:4208:ARG:HH21	1.53	0.74
1:A:31:ARG:CB	2:D:1493:TYR:CD1	2.70	0.74
1:A:37:GLN:NE2	2:D:1200:ASP:OD1	2.20	0.74
1:B:634:ASP:CG	1:J:3777:ASP:OD1	2.31	0.74
1:C:1091:ASP:CB	1:E:1836:GLN:CD	2.60	0.74
2:D:1302:THR:CG2	1:K:3949:PHE:CZ	2.71	0.74
2:D:1336:GLN:H	1:F:1967:GLN:NE2	1.83	0.74
2:D:1361:LEU:CA	1:H:2760:GLN:NE2	2.41	0.74
2:D:1408:THR:C	1:M:4741:PHE:HZ	1.94	0.74
1:F:2151:GLY:HA3	1:I:3356:ASP:CB	1.88	0.74
1:H:2753:ARG:O	1:H:2754:MET:HE3	1.88	0.74
1:L:4337:ARG:O	1:L:4338:MET:HE3	1.88	0.74
1:B:693:LEU:C	1:J:3813:ASP:HB2	2.13	0.74
2:D:1429:THR:N	1:M:4741:PHE:CD2	2.47	0.74
1:F:2154:GLY:HA2	1:I:3353:MET:SD	2.28	0.74
1:A:298:ARG:C	1:L:4569:ASP:CB	2.57	0.73
1:F:1961:ARG:O	1:F:1962:MET:HE3	1.88	0.73
1:A:184:LEU:O	1:A:187:ASP:HB3	1.87	0.73
2:D:1394:GLN:HG3	1:H:2755:PRO:CD	2.18	0.73
2:D:1448:GLU:HB2	1:K:3945:ASN:OD1	1.88	0.73
1:E:1565:ARG:O	1:E:1566:MET:HE3	1.88	0.73
1:F:2175:VAL:HG23	1:I:3363:VAL:CB	2.17	0.73
1:F:2222:LEU:O	1:I:3418:GLY:C	2.31	0.73
1:G:2528:VAL:O	1:G:2532:THR:HB	1.86	0.73
1:A:263:ASP:CB	1:L:4605:ASP:OD1	2.36	0.73
1:B:427:ARG:C	1:B:428:MET:HE3	2.13	0.73
1:C:1053:ALA:HB1	1:E:1772:ASP:O	1.87	0.73
2:D:1241:TYR:OH	1:E:1573:PHE:CZ	2.41	0.73
2:D:1259:SER:HA	1:I:3154:PHE:HA	1.70	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:2179:LEU:CA	1:I:3355:VAL:C	2.44	0.73
1:G:2627:LYS:HE3	1:M:4999:LEU:HD12	1.68	0.73
1:M:4733:ARG:C	1:M:4734:MET:HE3	2.13	0.73
1:A:298:ARG:HG2	1:L:4569:ASP:CA	2.18	0.73
1:B:630:ALA:O	1:J:3750:LYS:CA	0.61	0.73
1:B:694:ARG:NH1	1:J:3811:LEU:HD11	2.00	0.73
1:C:1023:LEU:HD11	1:E:1770:LYS:CA	2.16	0.73
2:D:1404:ASP:O	1:F:1961:ARG:CB	2.36	0.73
1:F:2178:VAL:HG12	1:I:3345:LEU:HD13	0.73	0.73
1:H:3025:VAL:HG12	1:H:3026:ASN:H	1.54	0.73
1:L:4609:VAL:HG12	1:L:4610:ASN:H	1.54	0.73
1:A:33:PRO:HG2	2:D:1204:LYS:HB2	0.78	0.73
2:D:1260:TRP:NE1	1:I:3155:GLN:HG2	1.98	0.73
1:F:2153:MET:C	1:I:3355:VAL:HG12	2.14	0.73
1:F:2171:ARG:HG3	1:I:3367:LEU:O	1.89	0.73
1:G:2624:ARG:C	1:M:4999:LEU:HD22	2.08	0.73
1:K:4094:LEU:O	1:K:4097:ASP:HB3	1.87	0.73
1:C:823:ARG:O	1:C:824:MET:HE3	1.88	0.73
1:C:1027:MET:HG2	1:E:1778:PHE:HA	1.69	0.73
2:D:1360:ALA:CB	1:H:2755:PRO:O	2.37	0.73
2:D:1426:TYR:N	1:L:4345:PHE:CE2	2.53	0.73
1:F:2165:MET:SD	1:I:3343:THR:OG1	2.44	0.73
1:F:2192:GLY:HA2	1:I:3343:THR:H	1.53	0.73
1:G:2562:LYS:HB3	1:M:4937:MET:HE2	0.73	0.73
1:J:3545:ARG:O	1:J:3546:MET:HE3	1.88	0.73
1:C:1091:ASP:CG	1:E:1836:GLN:OE1	2.30	0.73
1:C:1095:VAL:HG12	1:C:1096:ASN:H	1.54	0.73
2:D:1275:SER:CA	1:G:2362:PHE:CD2	2.71	0.73
1:F:2230:GLY:N	1:I:3401:VAL:HG12	2.02	0.73
1:G:2624:ARG:CB	1:M:4999:LEU:CD2	0.73	0.73
1:A:34:ARG:N	2:D:1533:GLN:H	1.73	0.73
1:A:223:MET:HE3	1:A:249:LEU:HD21	1.71	0.73
1:B:528:ASN:C	1:B:528:ASN:HD22	1.94	0.73
1:B:699:VAL:HG12	1:B:700:ASN:H	1.54	0.73
2:D:1438:LEU:HB2	1:M:4735:PRO:CB	2.07	0.73
2:D:1444:ALA:HB1	1:M:4738:PHE:CD1	2.23	0.73
1:F:1961:ARG:C	1:F:1962:MET:HE3	2.12	0.73
1:F:2195:ILE:HG22	1:I:3377:ILE:HA	1.69	0.73
1:G:2559:LYS:CB	1:M:4936:ALA:HB1	1.76	0.73
1:B:427:ARG:O	1:B:428:MET:HE3	1.88	0.73
1:C:1036:PHE:CB	1:E:1832:ARG:NH1	2.52	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:2507:THR:HG22	1:G:2521:PHE:O	1.89	0.73
1:I:3302:LEU:O	1:I:3305:ASP:HB3	1.87	0.73
1:J:3698:LEU:O	1:J:3701:ASP:HB3	1.87	0.73
1:M:4925:MET:HE3	1:M:4951:LEU:HD21	1.71	0.73
1:A:31:ARG:HD2	2:D:1491:THR:CB	2.15	0.73
1:B:428:MET:HE1	2:D:1195:ASP:CB	2.17	0.73
1:C:1027:MET:HB2	1:E:1796:GLY:O	1.89	0.73
2:D:1306:ASP:HB3	1:H:2759:GLN:HE22	1.52	0.73
2:D:1366:ASP:O	1:F:1964:ARG:NH2	2.21	0.73
2:D:1431:ASN:ND2	1:M:4742:PHE:HA	2.04	0.73
2:D:1448:GLU:N	1:K:3947:GLN:HA	1.99	0.73
2:D:1469:LYS:CA	1:M:4738:PHE:CG	2.71	0.73
1:J:3695:THR:HG22	1:J:3709:PHE:O	1.89	0.73
1:A:181:THR:HG22	1:A:195:PHE:O	1.89	0.72
1:B:435:PHE:CA	2:D:1192:TYR:O	2.37	0.72
2:D:1358:ARG:CB	1:H:2758:PHE:HE2	1.98	0.72
1:F:2153:MET:CB	1:I:3353:MET:O	2.16	0.72
1:H:2952:GLU:O	1:K:4145:MET:HG2	1.89	0.72
1:A:301:LYS:HE2	1:L:4602:LEU:H	1.52	0.72
1:B:619:MET:HE3	1:B:645:LEU:HD21	1.71	0.72
2:D:1438:LEU:CB	1:M:4735:PRO:CB	2.55	0.72
1:K:3941:ARG:O	1:K:3942:MET:HE3	1.88	0.72
1:K:4213:VAL:HG12	1:K:4214:ASN:H	1.54	0.72
1:A:76:ILE:HG13	1:A:88:ALA:HB3	1.72	0.72
1:A:263:ASP:CA	1:L:4604:ARG:CB	2.34	0.72
1:C:1028:LYS:HZ1	1:E:1757:MET:HB2	1.50	0.72
1:F:2168:ASP:HB3	1:I:3367:LEU:HD11	1.65	0.72
1:F:2228:ARG:H	1:I:3338:LEU:HD23	1.53	0.72
1:B:577:THR:HG22	1:B:591:PHE:O	1.89	0.72
1:C:868:ILE:HG13	1:C:880:ALA:HB3	1.72	0.72
1:F:2177:GLN:CG	1:I:3355:VAL:N	2.53	0.72
1:F:2196:THR:HG21	1:I:3372:ALA:O	0.94	0.72
1:F:2198:LEU:HD21	1:I:3419:LYS:HA	1.70	0.72
1:M:5005:VAL:HG12	1:M:5006:ASN:H	1.54	0.72
2:D:1391:THR:CA	1:H:2755:PRO:HG2	2.16	0.72
2:D:1507:ASN:O	1:J:3547:PRO:HG3	1.88	0.72
1:F:2152:ILE:HD13	1:I:3380:GLY:C	2.13	0.72
1:H:2903:THR:HG22	1:H:2917:PHE:O	1.89	0.72
2:D:1394:GLN:HB2	1:H:2755:PRO:HD2	1.69	0.72
1:F:2233:VAL:HG12	1:F:2234:ASN:H	1.54	0.72
1:G:2624:ARG:HG2	1:M:4999:LEU:HD22	1.65	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:4733:ARG:O	1:M:4734:MET:HE3	1.88	0.72
1:A:298:ARG:C	1:L:4602:LEU:CB	2.46	0.72
1:B:632:LYS:HG2	1:J:3749:MET:C	2.14	0.72
1:F:2177:GLN:CG	1:I:3355:VAL:H	2.02	0.72
1:G:2624:ARG:CB	1:M:4999:LEU:HD22	0.73	0.72
1:L:4547:ARG:O	1:L:4547:ARG:HD2	1.90	0.72
1:C:973:THR:HG22	1:C:987:PHE:O	1.89	0.72
1:C:1025:LYS:CB	1:E:1780:SER:O	2.25	0.72
1:E:1837:VAL:HG12	1:E:1838:ASN:H	1.54	0.72
1:I:3421:VAL:HG12	1:I:3422:ASN:H	1.54	0.72
1:M:4943:ARG:O	1:M:4943:ARG:HD2	1.90	0.72
1:B:452:ILE:HG13	1:B:511:MET:CE	2.20	0.72
1:F:2167:VAL:N	1:I:3365:GLN:OE1	2.11	0.72
1:F:2172:GLY:CA	1:I:3377:ILE:O	2.38	0.72
1:F:2190:LYS:NZ	1:I:3392:SER:CB	2.51	0.72
1:K:4151:ARG:O	1:K:4151:ARG:HD2	1.90	0.72
1:L:4382:ILE:HG13	1:L:4394:ALA:HB3	1.72	0.72
1:A:241:ARG:HD2	1:A:241:ARG:O	1.90	0.71
1:C:1033:ARG:O	1:C:1033:ARG:HD2	1.90	0.71
1:C:1090:ARG:HD2	1:E:1800:THR:HB	1.72	0.71
2:D:1440:TRP:CE2	1:H:2760:GLN:NE2	2.55	0.71
1:F:2188:GLY:HA3	1:I:3384:THR:O	1.90	0.71
1:F:2230:GLY:O	1:I:3410:LEU:CG	2.38	0.71
1:M:4883:THR:HG22	1:M:4897:PHE:O	1.89	0.71
1:A:301:LYS:HZ3	1:L:4602:LEU:N	1.87	0.71
1:A:303:VAL:HG12	1:A:304:ASN:H	1.54	0.71
1:C:1031:ALA:CB	1:E:1837:VAL:HG21	2.20	0.71
1:C:1031:ALA:HB3	1:E:1837:VAL:HG21	1.72	0.71
2:D:1382:GLY:O	1:L:4345:PHE:O	2.08	0.71
1:E:1715:THR:HG22	1:E:1729:PHE:O	1.89	0.71
1:F:2175:VAL:HG13	1:I:3380:GLY:O	1.89	0.71
1:G:2402:ILE:HG13	1:G:2414:ALA:HB3	1.72	0.71
1:H:2960:ASP:OD1	1:K:4170:LYS:HB2	1.90	0.71
1:I:3299:THR:HG22	1:I:3313:PHE:O	1.89	0.71
1:I:3359:ARG:O	1:I:3359:ARG:HD2	1.90	0.71
1:J:3590:ILE:HG13	1:J:3602:ALA:HB3	1.72	0.71
1:C:1027:MET:CE	1:E:1771:VAL:HG11	2.04	0.71
1:C:1028:LYS:CG	1:E:1756:ILE:HD13	2.19	0.71
2:D:1524:ASN:O	1:J:3545:ARG:HB2	1.89	0.71
1:F:2111:THR:HG22	1:F:2125:PHE:O	1.89	0.71
1:F:2193:ASP:HB3	1:I:3383:ILE:HD13	0.72	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:2557:LEU:CB	1:M:4938:LYS:NZ	2.53	0.71
1:A:33:PRO:CB	2:D:1204:LYS:CB	2.68	0.71
1:B:431:ASN:CB	2:D:1197:ASN:ND2	2.50	0.71
1:C:1015:MET:HE3	1:C:1041:LEU:HD21	1.71	0.71
2:D:1446:ASN:HD21	1:M:4739:GLN:CG	2.01	0.71
2:D:1486:VAL:N	1:K:3950:PHE:CD1	2.54	0.71
1:J:3755:ARG:HD2	1:J:3755:ARG:O	1.90	0.71
1:K:4091:THR:HG22	1:K:4105:PHE:O	1.89	0.71
1:L:4529:MET:HE3	1:L:4555:LEU:HD21	1.71	0.71
1:L:4610:ASN:O	1:L:4611:VAL:HG13	1.91	0.71
1:B:637:ARG:HD2	1:B:637:ARG:O	1.90	0.71
1:B:700:ASN:O	1:B:701:VAL:HG13	1.91	0.71
2:D:1272:ASP:C	1:G:2358:MET:HG3	2.15	0.71
2:D:1366:ASP:CB	1:F:1964:ARG:HH21	2.02	0.71
1:F:2171:ARG:HD2	1:F:2171:ARG:O	1.90	0.71
1:L:4487:THR:HG22	1:L:4501:PHE:O	1.89	0.71
1:M:4758:ILE:HG13	1:M:4817:MET:CE	2.20	0.71
1:B:436:PHE:CA	2:D:1199:LEU:HB3	2.20	0.71
2:D:1469:LYS:N	1:M:4738:PHE:CG	2.58	0.71
1:F:2155:THR:HG23	1:I:3353:MET:SD	2.30	0.71
1:F:2169:ALA:CB	1:I:3370:SER:HB3	2.20	0.71
1:F:2264:GLY:HA3	1:F:2288:ILE:HD13	1.73	0.71
1:G:2630:ASN:O	1:G:2631:VAL:HG13	1.91	0.71
1:H:2963:ARG:HD2	1:H:2963:ARG:O	1.90	0.71
1:J:3737:MET:HE3	1:J:3763:LEU:HD21	1.71	0.71
1:C:1025:LYS:HA	1:E:1795:ALA:HA	1.72	0.71
1:C:1035:ALA:N	1:E:1832:ARG:HE	1.89	0.71
2:D:1340:LYS:HZ2	1:F:1971:GLY:HA2	1.52	0.71
2:D:1402:ASN:CB	1:M:4733:ARG:HD2	2.20	0.71
2:D:1448:GLU:N	1:K:3946:PHE:O	2.22	0.71
2:D:1475:ARG:HB2	1:M:4734:MET:SD	2.30	0.71
1:I:3194:ILE:HG13	1:I:3206:ALA:HB3	1.72	0.71
1:K:3966:ILE:HG13	1:K:4025:MET:CE	2.20	0.71
1:K:3986:ILE:HG13	1:K:3998:ALA:HB3	1.72	0.71
1:C:848:ILE:HG13	1:C:907:MET:CE	2.20	0.71
2:D:1448:GLU:CB	1:K:3947:GLN:H	2.01	0.71
1:E:1838:ASN:O	1:E:1839:VAL:HG13	1.91	0.71
1:F:2169:ALA:HB3	1:I:3339:GLY:CA	2.19	0.71
1:F:2185:ALA:CB	1:I:3357:ALA:HB1	2.20	0.71
1:F:2197:SER:N	1:I:3377:ILE:HG13	2.05	0.71
1:G:2663:VAL:HG12	1:G:2681:ASP:O	1.91	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:2798:ILE:HG13	1:H:2810:ALA:HB3	1.72	0.71
1:I:3149:ARG:O	1:I:3150:MET:HE3	1.88	0.71
1:C:1026:ALA:N	1:E:1778:PHE:CZ	2.59	0.71
2:D:1429:THR:CA	1:M:4741:PHE:CD2	2.74	0.71
2:D:1475:ARG:HH12	1:H:2763:GLY:HA2	1.55	0.71
1:F:2231:LYS:HZ1	1:I:3400:GLN:CA	2.04	0.71
1:I:3452:GLY:HA3	1:I:3476:ILE:HD13	1.73	0.71
1:K:4133:MET:HE3	1:K:4159:LEU:HD21	1.71	0.71
1:A:33:PRO:HB2	2:D:1533:GLN:HB3	0.74	0.71
1:A:260:LYS:HB3	1:L:4544:ASP:O	1.90	0.71
1:C:1126:GLY:HA3	1:C:1150:ILE:HD13	1.73	0.71
2:D:1399:TYR:CD1	1:H:2762:PHE:HB3	2.26	0.71
1:E:1610:ILE:HG13	1:E:1622:ALA:HB3	1.72	0.71
1:H:3056:GLY:HA3	1:H:3080:ILE:HD13	1.73	0.71
1:A:31:ARG:N	2:D:1498:MET:C	2.48	0.70
1:C:1030:ASP:HB2	1:E:1830:LEU:CD1	2.21	0.70
2:D:1325:PHE:HB3	1:G:2358:MET:CE	2.03	0.70
2:D:1404:ASP:O	1:F:1961:ARG:HB3	1.91	0.70
2:D:1474:GLY:HA2	1:M:4732:PRO:HB2	1.72	0.70
2:D:1523:ASP:CB	1:J:3546:MET:CG	2.67	0.70
1:E:1775:ARG:HD2	1:E:1775:ARG:O	1.90	0.70
1:F:2168:ASP:OD1	1:I:3341:MET:SD	2.49	0.70
1:F:2170:GLN:HB2	1:I:3368:PRO:HD3	1.74	0.70
1:H:3023:LYS:HG2	1:K:4210:GLY:HA3	1.71	0.70
1:H:3026:ASN:O	1:H:3027:VAL:HG13	1.91	0.70
1:I:3455:VAL:HG12	1:I:3473:ASP:O	1.91	0.70
1:J:3817:VAL:HG12	1:J:3818:ASN:H	1.54	0.70
1:J:3848:GLY:HA3	1:J:3872:ILE:HD13	1.73	0.70
1:B:733:VAL:HG12	1:B:751:ASP:O	1.91	0.70
2:D:1340:LYS:CG	1:F:1970:PHE:CG	2.74	0.70
2:D:1447:PHE:O	1:K:3948:GLN:N	2.03	0.70
2:D:1523:ASP:CA	1:J:3546:MET:CG	2.22	0.70
1:E:1894:ALA:HB2	1:E:1899:VAL:HG23	1.73	0.70
1:F:2169:ALA:CB	1:I:3339:GLY:CA	2.69	0.70
1:F:2234:ASN:O	1:F:2235:VAL:HG13	1.91	0.70
1:G:2562:LYS:HD2	1:M:4933:LEU:N	1.97	0.70
1:K:4244:GLY:HA3	1:K:4268:ILE:HD13	1.73	0.70
1:A:360:ALA:HB2	1:A:365:VAL:HG23	1.73	0.70
1:B:435:PHE:O	2:D:1191:VAL:HG22	1.91	0.70
1:B:472:ILE:HG13	1:B:484:ALA:HB3	1.72	0.70
2:D:1235:THR:HB	1:E:1764:GLU:CD	2.16	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:1338:GLN:O	1:F:1968:GLN:O	0.71	0.70
2:D:1366:ASP:OD1	1:F:1970:PHE:HD2	1.68	0.70
2:D:1463:LEU:HG	1:K:3944:ARG:NH1	2.05	0.70
1:F:2224:LEU:C	1:I:3421:VAL:N	2.41	0.70
1:G:2624:ARG:HD2	1:M:4940:ASP:O	1.90	0.70
1:J:3851:VAL:HG12	1:J:3869:ASP:O	1.91	0.70
1:M:4778:ILE:HG13	1:M:4790:ALA:HB3	1.72	0.70
1:A:35:ASN:H	2:D:1533:GLN:HE21	0.78	0.70
1:A:36:PHE:HD2	2:D:1534:PHE:OXT	1.75	0.70
2:D:1260:TRP:HZ2	1:I:3155:GLN:CG	1.74	0.70
2:D:1325:PHE:HA	1:G:2359:PRO:C	2.15	0.70
2:D:1522:THR:N	1:J:3548:ARG:N	2.37	0.70
1:E:1757:MET:HE3	1:E:1783:LEU:HD21	1.71	0.70
1:F:2203:ILE:CG2	1:I:3378:LYS:HG3	2.21	0.70
1:G:2567:ARG:HD2	1:G:2567:ARG:O	1.90	0.70
1:H:2945:MET:HE3	1:H:2971:LEU:HD21	1.71	0.70
1:J:3570:ILE:HG13	1:J:3629:MET:CE	2.20	0.70
1:L:4643:VAL:HG12	1:L:4661:ASP:O	1.91	0.70
1:A:33:PRO:CG	2:D:1532:TYR:O	2.39	0.70
1:B:436:PHE:CA	2:D:1191:VAL:HG23	2.21	0.70
2:D:1217:VAL:HG23	1:J:3548:ARG:HH22	1.52	0.70
2:D:1221:GLN:HE21	1:J:3554:PHE:N	1.88	0.70
2:D:1274:GLY:CA	1:G:2362:PHE:N	2.22	0.70
2:D:1340:LYS:HZ3	1:F:1971:GLY:HA2	1.56	0.70
2:D:1361:LEU:CA	1:H:2760:GLN:HE21	2.00	0.70
2:D:1444:ALA:HB2	1:M:4738:PHE:N	1.61	0.70
1:F:2168:ASP:CB	1:I:3341:MET:HG2	2.14	0.70
1:F:2175:VAL:HA	1:I:3380:GLY:CA	2.20	0.70
1:G:2629:VAL:HG12	1:G:2630:ASN:H	1.54	0.70
1:J:3818:ASN:O	1:J:3819:VAL:HG13	1.91	0.70
1:J:3874:ALA:HB2	1:J:3879:VAL:HG23	1.73	0.70
1:K:4214:ASN:O	1:K:4215:VAL:HG13	1.91	0.70
1:A:298:ARG:NH2	1:L:4571:ILE:C	2.33	0.70
1:B:693:LEU:O	1:J:3813:ASP:HA	1.91	0.70
1:C:1028:LYS:HD2	1:E:1758:GLY:HA3	1.72	0.70
1:C:1096:ASN:O	1:C:1097:VAL:HG13	1.91	0.70
2:D:1399:TYR:CE1	1:H:2762:PHE:HB3	2.26	0.70
2:D:1425:GLN:C	1:K:3946:PHE:HD1	1.97	0.70
1:E:1871:VAL:HG12	1:E:1889:ASP:O	1.91	0.70
1:F:2192:GLY:O	1:I:3342:GLY:HA3	1.92	0.70
1:F:2267:VAL:HG12	1:F:2285:ASP:O	1.91	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:4247:VAL:HG12	1:K:4265:ASP:O	1.91	0.70
1:L:4666:ALA:HB2	1:L:4671:VAL:HG23	1.73	0.70
1:A:32:MET:HG3	2:D:1532:TYR:CA	2.11	0.70
1:A:56:ILE:HG13	1:A:115:MET:CE	2.20	0.70
2:D:1213:ASP:N	1:J:3544:PRO:CA	2.54	0.70
2:D:1320:ARG:N	1:G:2363:GLN:HG3	2.07	0.70
2:D:1363:GLN:H	1:H:2757:ASN:ND2	1.87	0.70
1:E:1590:ILE:HG13	1:E:1649:MET:CE	2.20	0.70
1:F:2153:MET:HE3	1:F:2179:LEU:HD21	1.71	0.70
1:F:2178:VAL:HG12	1:I:3345:LEU:CD2	2.21	0.70
1:H:3059:VAL:HG12	1:H:3077:ASP:O	1.91	0.70
1:K:4141:LEU:HB3	1:K:4145:MET:CE	2.22	0.70
1:M:5006:ASN:O	1:M:5007:VAL:HG13	1.91	0.70
1:A:304:ASN:O	1:A:305:VAL:HG13	1.91	0.70
1:B:632:LYS:N	1:J:3749:MET:O	2.25	0.70
1:B:756:ALA:HB2	1:B:761:VAL:HG23	1.74	0.70
1:C:1023:LEU:CD2	1:E:1766:ALA:CA	2.68	0.70
2:D:1272:ASP:CA	1:G:2359:PRO:CB	2.48	0.70
2:D:1435:VAL:HG22	1:M:4736:ARG:O	1.91	0.70
1:F:2006:ILE:HG13	1:F:2018:ALA:HB3	1.72	0.70
1:F:2170:GLN:N	1:I:3368:PRO:CD	2.45	0.70
1:F:2179:LEU:H	1:I:3356:ASP:N	1.90	0.70
1:F:2195:ILE:HG23	1:I:3414:LEU:HD13	0.71	0.70
1:F:2237:LEU:CD2	1:I:3417:ASP:HB3	2.22	0.70
1:J:3824:GLN:HG2	1:J:3826:SER:H	1.57	0.70
1:L:4362:ILE:HG13	1:L:4421:MET:CE	2.20	0.70
1:A:161:ASN:OD1	1:A:162:ARG:HG3	1.92	0.70
1:C:953:ASN:OD1	1:C:954:ARG:HG3	1.92	0.70
1:C:1023:LEU:HB3	1:C:1027:MET:CE	2.22	0.70
1:C:1108:GLN:HG3	1:C:1117:GLU:HG2	1.74	0.70
2:D:1389:LYS:NZ	1:F:1959:THR:O	2.24	0.70
2:D:1425:GLN:HB2	1:L:4345:PHE:HZ	1.55	0.70
1:F:2185:ALA:N	1:I:3357:ALA:CB	2.30	0.70
1:F:2197:SER:CB	1:I:3421:VAL:HG11	2.22	0.70
1:F:2209:LEU:HD21	1:I:3416:ARG:HB3	1.67	0.70
1:F:2231:LYS:HE2	1:I:3401:VAL:HG13	1.74	0.70
1:I:3349:LEU:HB3	1:I:3353:MET:CE	2.22	0.70
1:I:3428:GLN:HG2	1:I:3430:SER:H	1.57	0.70
1:I:3434:GLN:HG3	1:I:3443:GLU:HG2	1.74	0.70
1:J:3675:ASN:OD1	1:J:3676:ARG:HG3	1.92	0.70
1:A:231:LEU:HB3	1:A:235:MET:CE	2.22	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:1309:MET:HE3	1:F:1967:GLN:O	1.91	0.70
2:D:1399:TYR:CE2	1:H:2756:ARG:NH1	2.50	0.70
1:F:2169:ALA:CB	1:I:3339:GLY:HA3	2.21	0.70
1:G:2627:LYS:CE	1:M:4999:LEU:HD12	2.20	0.70
1:G:2660:GLY:HA3	1:G:2684:ILE:HD13	1.73	0.70
1:L:4640:GLY:HA3	1:L:4664:ILE:HD13	1.73	0.70
1:B:434:GLN:HE21	2:D:1230:GLY:C	1.99	0.69
1:C:1123:LYS:H	1:C:1123:LYS:HD3	1.57	0.69
1:C:1129:VAL:HG12	1:C:1147:ASP:O	1.91	0.69
2:D:1266:ALA:CB	1:E:1572:GLN:HG2	2.12	0.69
2:D:1268:LEU:N	1:G:2362:PHE:CZ	2.58	0.69
2:D:1389:LYS:HE2	1:F:1961:ARG:N	2.07	0.69
1:F:2189:ILE:HD12	1:I:3415:LEU:HB3	1.74	0.69
1:F:2290:ALA:HB2	1:F:2295:VAL:HG23	1.74	0.69
1:G:2382:ILE:HG13	1:G:2441:MET:CE	2.20	0.69
1:G:2549:MET:HE3	1:G:2575:LEU:HD21	1.71	0.69
1:G:2686:ALA:HB2	1:G:2691:VAL:HG23	1.73	0.69
1:I:3422:ASN:O	1:I:3423:VAL:HG13	1.91	0.69
1:K:4071:ASN:OD1	1:K:4072:ARG:HG3	1.92	0.69
1:K:4270:ALA:HB2	1:K:4275:VAL:HG23	1.73	0.69
1:L:4438:ASN:HD21	1:L:4441:GLY:CA	2.05	0.69
1:M:4834:ASN:HD21	1:M:4837:GLY:CA	2.05	0.69
1:M:4863:ASN:OD1	1:M:4864:ARG:HG3	1.92	0.69
1:M:5018:GLN:HG3	1:M:5027:GLU:HG2	1.74	0.69
1:A:298:ARG:HG2	1:L:4569:ASP:HB3	1.73	0.69
1:A:310:GLN:HG2	1:A:312:SER:H	1.57	0.69
2:D:1272:ASP:CA	1:G:2359:PRO:HB3	2.20	0.69
2:D:1272:ASP:N	1:G:2359:PRO:HB3	2.07	0.69
2:D:1447:PHE:HA	1:K:3947:GLN:HA	1.74	0.69
1:E:1868:GLY:HA3	1:E:1892:ILE:HD13	1.73	0.69
1:F:2150:LEU:N	1:I:3416:ARG:O	2.15	0.69
1:F:2169:ALA:CB	1:I:3370:SER:CB	2.70	0.69
1:F:2172:GLY:HA2	1:I:3377:ILE:O	1.91	0.69
1:F:2227:LEU:CG	1:I:3338:LEU:C	2.64	0.69
1:G:2562:LYS:N	1:M:4937:MET:N	2.38	0.69
1:G:2624:ARG:HD2	1:M:4941:ALA:HB3	0.70	0.69
1:M:5062:ALA:HB2	1:M:5067:VAL:HG23	1.73	0.69
2:D:1319:TYR:HD1	1:G:2362:PHE:O	1.76	0.69
2:D:1363:GLN:HE22	1:H:2756:ARG:H	1.39	0.69
2:D:1404:ASP:OD1	1:F:1960:PRO:C	2.34	0.69
1:E:1865:LYS:H	1:E:1865:LYS:HD3	1.57	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:2956:ALA:CB	1:K:4145:MET:H	2.01	0.69
1:H:3032:GLN:HG2	1:H:3034:SER:H	1.57	0.69
1:I:3279:ASN:OD1	1:I:3280:ARG:HG3	1.92	0.69
1:I:3478:ALA:N	1:I:3481:GLN:O	2.21	0.69
1:L:4661:ASP:HA	1:L:4694:ARG:HB3	1.75	0.69
1:M:5057:ASP:HA	1:M:5090:ARG:HB3	1.74	0.69
2:D:1324:PHE:CD2	1:G:2357:ARG:CG	2.75	0.69
2:D:1524:ASN:C	1:J:3545:ARG:CB	2.65	0.69
1:E:1695:ASN:OD1	1:E:1696:ARG:HG3	1.92	0.69
1:F:2062:ASN:HD21	1:F:2065:GLY:CA	2.05	0.69
1:F:2154:GLY:CA	1:I:3353:MET:SD	2.80	0.69
1:F:2179:LEU:CA	1:I:3358:GLN:HG3	2.22	0.69
1:F:2189:ILE:C	1:I:3382:VAL:CG1	2.54	0.69
1:G:2564:ASP:OD2	1:M:4946:PHE:CE2	2.46	0.69
1:G:2625:ASP:N	1:M:4999:LEU:HD23	2.05	0.69
1:G:2642:GLN:HG3	1:G:2651:GLU:HG2	1.74	0.69
1:H:3082:ALA:HB2	1:H:3087:VAL:HG23	1.73	0.69
1:I:3250:ASN:HD21	1:I:3253:GLY:CA	2.05	0.69
1:I:3478:ALA:HB2	1:I:3483:VAL:HG23	1.73	0.69
1:M:5036:GLY:HA3	1:M:5060:ILE:HD13	1.73	0.69
1:C:1053:ALA:CB	1:E:1772:ASP:O	2.40	0.69
1:C:1147:ASP:HA	1:C:1180:ARG:HB3	1.75	0.69
2:D:1445:GLN:N	1:M:4738:PHE:HD1	1.90	0.69
1:H:2883:ASN:OD1	1:H:2884:ARG:HG3	1.92	0.69
1:I:3473:ASP:HA	1:I:3506:ARG:HB3	1.74	0.69
1:K:4220:GLN:HG2	1:K:4222:SER:H	1.57	0.69
1:M:5039:VAL:HG12	1:M:5057:ASP:O	1.91	0.69
1:A:331:LYS:HD3	1:A:331:LYS:H	1.57	0.69
1:B:730:GLY:HA3	1:B:754:ILE:HD13	1.73	0.69
1:C:1028:LYS:CE	1:E:1757:MET:N	2.41	0.69
1:C:1036:PHE:CD2	1:E:1832:ARG:CB	2.64	0.69
2:D:1210:TYR:C	1:J:3554:PHE:HD1	1.98	0.69
2:D:1425:GLN:O	1:K:3947:GLN:HB3	1.92	0.69
1:F:1986:ILE:HG13	1:F:2045:MET:CE	2.20	0.69
1:F:2285:ASP:HA	1:F:2318:ARG:HB3	1.75	0.69
1:I:3174:ILE:HG13	1:I:3233:MET:CE	2.20	0.69
1:I:3341:MET:HE3	1:I:3367:LEU:HD21	1.71	0.69
1:L:4616:GLN:HG2	1:L:4618:SER:H	1.57	0.69
1:M:5033:LYS:HD3	1:M:5033:LYS:H	1.57	0.69
1:B:557:ASN:OD1	1:B:558:ARG:HG3	1.92	0.69
1:B:627:LEU:HB3	1:B:631:MET:CE	2.22	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:751:ASP:HA	1:B:784:ARG:HB3	1.74	0.69
1:B:756:ALA:N	1:B:759:GLN:O	2.21	0.69
1:C:1039:GLN:CB	1:E:1772:ASP:CG	2.65	0.69
2:D:1272:ASP:CG	1:G:2358:MET:HG2	2.18	0.69
2:D:1366:ASP:OD1	1:F:1970:PHE:CE2	2.46	0.69
1:F:2237:LEU:HG	1:I:3417:ASP:O	1.89	0.69
1:F:2240:GLN:HG2	1:F:2242:SER:H	1.57	0.69
1:H:3082:ALA:N	1:H:3085:GLN:O	2.21	0.69
1:J:3646:ASN:HD21	1:J:3649:GLY:CA	2.05	0.69
1:L:4537:LEU:HB3	1:L:4541:MET:CE	2.22	0.69
1:M:5012:GLN:HG2	1:M:5014:SER:H	1.57	0.69
1:A:132:ASN:HD21	1:A:135:GLY:CA	2.05	0.69
1:A:334:GLY:HA3	1:A:358:ILE:HD13	1.73	0.69
1:B:434:GLN:HB2	2:D:1231:GLU:H	1.57	0.69
1:B:727:LYS:H	1:B:727:LYS:HD3	1.58	0.69
1:C:1057:ILE:HD12	1:E:1833:ASP:C	2.17	0.69
2:D:1508:LEU:H	1:K:3951:GLY:HA2	1.57	0.69
1:F:2194:VAL:HG11	1:I:3366:VAL:HB	1.75	0.69
1:F:2195:ILE:HG13	1:I:3414:LEU:CG	2.23	0.69
1:F:2222:LEU:HD11	1:I:3418:GLY:N	2.05	0.69
1:L:4622:GLN:HG3	1:L:4631:GLU:HG2	1.74	0.69
1:A:260:LYS:HD3	1:L:4545:ALA:N	1.46	0.69
1:B:528:ASN:HD21	1:B:531:GLY:CA	2.05	0.69
1:C:1023:LEU:HG	1:E:1769:MET:C	2.17	0.69
1:C:1049:ALA:CB	1:C:1097:VAL:CG1	2.70	0.69
1:E:1765:LEU:HB3	1:E:1769:MET:CE	2.22	0.69
1:F:2161:LEU:HB3	1:F:2165:MET:CE	2.22	0.69
1:F:2167:VAL:HG11	1:I:3364:SER:HB3	1.73	0.69
1:F:2227:LEU:HG	1:I:3338:LEU:CG	2.23	0.69
1:I:3449:LYS:H	1:I:3449:LYS:HD3	1.57	0.69
1:J:3845:LYS:HD3	1:J:3845:LYS:H	1.58	0.69
1:L:4467:ASN:OD1	1:L:4468:ARG:HG3	1.92	0.69
1:C:924:ASN:HD21	1:C:927:GLY:CA	2.05	0.69
1:E:1791:ALA:CB	1:E:1839:VAL:CG1	2.71	0.69
1:F:2177:GLN:NE2	1:I:3355:VAL:H	1.90	0.69
1:F:2189:ILE:HG12	1:F:2226:LEU:HD11	1.61	0.69
1:J:3830:GLN:HG3	1:J:3839:GLU:HG2	1.74	0.69
1:K:4241:LYS:H	1:K:4241:LYS:HD3	1.57	0.69
1:A:257:ALA:CB	1:A:305:VAL:CG1	2.70	0.68
1:A:337:VAL:HG12	1:A:355:ASP:O	1.91	0.68
1:B:706:GLN:HG2	1:B:708:SER:H	1.57	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1091:ASP:CA	1:E:1836:GLN:OE1	2.35	0.68
2:D:1289:THR:HA	1:K:3947:GLN:NE2	2.08	0.68
1:F:2091:ASN:OD1	1:F:2092:ARG:HG3	1.92	0.68
1:G:2657:LYS:HD3	1:G:2657:LYS:H	1.57	0.68
1:C:1071:LEU:O	1:C:1075:VAL:HG22	1.94	0.68
2:D:1482:ILE:CB	1:M:4738:PHE:CE2	2.76	0.68
1:H:3053:LYS:H	1:H:3053:LYS:HD3	1.57	0.68
1:L:4637:LYS:H	1:L:4637:LYS:HD3	1.57	0.68
1:C:1152:ALA:HB2	1:C:1157:VAL:HG23	1.73	0.68
2:D:1221:GLN:CD	1:J:3553:PHE:CA	2.48	0.68
2:D:1260:TRP:C	1:I:3153:ASN:HB3	2.18	0.68
2:D:1267:GLY:C	1:E:1573:PHE:O	2.35	0.68
2:D:1272:ASP:O	1:G:2358:MET:HE2	1.93	0.68
2:D:1440:TRP:O	1:M:4735:PRO:O	2.12	0.68
2:D:1508:LEU:CB	1:K:3951:GLY:HA3	2.24	0.68
1:E:1666:ASN:HD21	1:E:1669:GLY:CA	2.05	0.68
1:H:2953:LEU:HB3	1:H:2957:MET:CE	2.22	0.68
1:I:3375:ALA:CB	1:I:3423:VAL:CG1	2.70	0.68
1:K:4270:ALA:N	1:K:4273:GLN:O	2.21	0.68
1:A:300:GLY:N	1:L:4607:LYS:HB2	1.81	0.68
2:D:1248:ILE:N	1:I:3152:ARG:CB	2.55	0.68
2:D:1425:GLN:O	1:K:3947:GLN:N	2.25	0.68
2:D:1526:VAL:CG2	1:J:3545:ARG:HD2	2.12	0.68
1:E:1889:ASP:HA	1:E:1922:ARG:HB3	1.75	0.68
1:E:1894:ALA:N	1:E:1897:GLN:O	2.21	0.68
1:F:2231:LYS:HZ2	1:I:3400:GLN:HB2	0.85	0.68
1:F:2295:VAL:HG12	1:F:2295:VAL:O	1.94	0.68
1:G:2557:LEU:C	1:M:4938:LYS:HG2	2.17	0.68
1:H:2778:ILE:HG13	1:H:2837:MET:CE	2.20	0.68
1:A:355:ASP:HA	1:A:388:ARG:HB3	1.75	0.68
1:B:693:LEU:HD11	1:J:3815:LYS:NZ	2.07	0.68
1:G:2458:ASN:HD21	1:G:2461:GLY:CA	2.05	0.68
1:G:2487:ASN:OD1	1:G:2488:ARG:HG3	1.92	0.68
1:G:2627:LYS:HG2	1:M:4999:LEU:HG	1.74	0.68
1:H:3077:ASP:HA	1:H:3110:ARG:HB3	1.75	0.68
1:J:3793:LEU:O	1:J:3797:VAL:HG22	1.94	0.68
1:M:4959:ALA:CB	1:M:5007:VAL:CG1	2.70	0.68
1:A:33:PRO:C	2:D:1533:GLN:N	2.52	0.68
1:C:1102:GLN:HG2	1:C:1104:SER:H	1.57	0.68
2:D:1260:TRP:CD1	1:I:3153:ASN:HB3	2.28	0.68
2:D:1448:GLU:HB3	1:K:3948:GLN:HB2	1.74	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:1464:ALA:HA	1:K:3944:ARG:CZ	2.24	0.68
1:G:2626:GLY:HA2	1:M:5003:LYS:HG2	1.75	0.68
1:G:2681:ASP:HA	1:G:2714:ARG:HB3	1.75	0.68
1:C:1057:ILE:CD1	1:E:1833:ASP:HB3	1.98	0.68
2:D:1246:TYR:O	1:I:3151:PRO:CB	2.35	0.68
2:D:1275:SER:C	1:G:2362:PHE:CG	2.62	0.68
2:D:1368:VAL:HA	1:F:1967:GLN:N	2.09	0.68
2:D:1407:GLU:CB	1:M:4741:PHE:HE1	2.07	0.68
1:E:1850:GLN:HG3	1:E:1859:GLU:HG2	1.74	0.68
1:F:2195:ILE:CG1	1:I:3414:LEU:HD13	2.24	0.68
1:F:2246:GLN:HG3	1:F:2255:GLU:HG2	1.74	0.68
1:G:2557:LEU:HB3	1:G:2561:MET:CE	2.22	0.68
1:G:2605:LEU:O	1:G:2609:VAL:HG22	1.94	0.68
1:H:3001:LEU:O	1:H:3005:VAL:HG22	1.94	0.68
1:J:3745:LEU:HB3	1:J:3749:MET:CE	2.22	0.68
1:J:3869:ASP:HA	1:J:3902:ARG:HB3	1.74	0.68
1:K:4265:ASP:HA	1:K:4298:ARG:HB3	1.75	0.68
1:L:4585:LEU:O	1:L:4589:VAL:HG22	1.94	0.68
2:D:1211:PHE:O	1:J:3545:ARG:HG3	1.93	0.68
2:D:1278:TYR:CE1	1:F:1969:PHE:CE2	2.81	0.68
2:D:1438:LEU:CB	1:M:4735:PRO:HB3	2.20	0.68
1:F:2177:GLN:CD	1:I:3354:LYS:CA	2.66	0.68
1:H:2960:ASP:OD1	1:K:4170:LYS:O	2.11	0.68
1:M:4981:LEU:O	1:M:4985:VAL:HG22	1.94	0.68
1:M:5067:VAL:O	1:M:5067:VAL:HG12	1.94	0.68
1:F:2190:LYS:HA	1:I:3345:LEU:HD11	1.76	0.68
1:A:33:PRO:HA	2:D:1532:TYR:N	2.09	0.68
1:A:279:LEU:O	1:A:283:VAL:HG22	1.94	0.68
1:C:1090:ARG:HB3	1:E:1836:GLN:NE2	2.08	0.68
2:D:1405:ARG:NH1	1:F:1962:MET:CE	2.11	0.68
2:D:1431:ASN:HD21	1:M:4742:PHE:CB	2.07	0.68
1:E:1844:GLN:HG2	1:E:1846:SER:H	1.57	0.68
1:F:2194:VAL:HG11	1:I:3366:VAL:CB	2.24	0.68
1:F:2200:GLY:HA2	1:I:3421:VAL:HG13	1.75	0.68
1:K:4042:ASN:HD21	1:K:4045:GLY:CA	2.05	0.68
1:L:4671:VAL:O	1:L:4671:VAL:HG12	1.94	0.68
1:A:316:GLN:HG3	1:A:325:GLU:HG2	1.74	0.67
1:C:1090:ARG:HA	1:E:1830:LEU:H	0.87	0.67
1:C:1157:VAL:O	1:C:1157:VAL:HG12	1.94	0.67
2:D:1214:ASN:CB	1:J:3548:ARG:HE	1.89	0.67
2:D:1315:GLY:HA2	1:E:1570:PHE:CE1	2.25	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:1444:ALA:CB	1:M:4739:GLN:CA	1.96	0.67
1:F:2228:ARG:CG	1:I:3394:PHE:CD1	2.77	0.67
1:G:2636:GLN:HG2	1:G:2638:SER:H	1.57	0.67
1:H:2854:ASN:HD21	1:H:2857:GLY:CA	2.05	0.67
1:H:3038:GLN:HG3	1:H:3047:GLU:HG2	1.74	0.67
1:J:3879:VAL:HG12	1:J:3879:VAL:O	1.94	0.67
2:D:1244:TRP:CZ2	1:I:3149:ARG:CB	2.77	0.67
1:F:2228:ARG:HD3	1:I:3397:LEU:CG	2.22	0.67
1:F:2261:LYS:HD3	1:F:2261:LYS:H	1.57	0.67
1:H:2979:ALA:CB	1:H:3027:VAL:CG1	2.70	0.67
1:K:4189:LEU:O	1:K:4193:VAL:HG22	1.94	0.67
1:K:4226:GLN:HG3	1:K:4235:GLU:HG2	1.74	0.67
1:B:712:GLN:HG3	1:B:721:GLU:HG2	1.74	0.67
1:C:1053:ALA:HB3	1:E:1773:ALA:HB3	0.69	0.67
2:D:1212:SER:HA	1:J:3545:ARG:H	1.59	0.67
2:D:1226:LEU:CB	1:I:3151:PRO:N	2.31	0.67
1:G:2557:LEU:CB	1:M:4938:LYS:HZ2	2.07	0.67
1:G:2623:LEU:CD2	1:M:5000:ARG:CA	2.70	0.67
1:L:4438:ASN:ND2	1:L:4441:GLY:H	1.93	0.67
1:M:5062:ALA:N	1:M:5065:GLN:O	2.21	0.67
1:A:298:ARG:HG2	1:L:4569:ASP:HA	1.76	0.67
1:B:675:LEU:O	1:B:679:VAL:HG22	1.94	0.67
1:C:1019:LEU:HG	1:E:1832:ARG:HD2	1.76	0.67
2:D:1360:ALA:HB2	1:H:2755:PRO:O	1.93	0.67
2:D:1401:GLY:H	1:M:4733:ARG:C	2.02	0.67
1:K:4275:VAL:O	1:K:4275:VAL:HG12	1.94	0.67
1:A:236:LYS:HB2	1:L:4567:ALA:CB	2.23	0.67
1:B:761:VAL:O	1:B:761:VAL:HG12	1.94	0.67
2:D:1260:TRP:HE1	1:I:3155:GLN:HG3	1.57	0.67
2:D:1319:TYR:CD1	1:G:2362:PHE:O	2.48	0.67
2:D:1429:THR:HA	1:M:4741:PHE:CZ	2.29	0.67
1:F:2192:GLY:CA	1:I:3342:GLY:CA	2.72	0.67
1:G:2624:ARG:N	1:M:5000:ARG:HA	2.09	0.67
1:H:2854:ASN:ND2	1:H:2857:GLY:H	1.93	0.67
1:K:4042:ASN:ND2	1:K:4045:GLY:H	1.93	0.67
1:A:29:THR:O	2:D:1493:TYR:N	2.28	0.67
2:D:1369:GLY:H	1:F:1967:GLN:HG2	1.59	0.67
2:D:1433:THR:N	1:M:4740:GLN:HB2	2.06	0.67
1:F:2150:LEU:CD1	1:I:3418:GLY:HA2	2.23	0.67
1:F:2233:VAL:O	1:I:3420:GLN:HB2	1.94	0.67
1:I:3250:ASN:ND2	1:I:3253:GLY:H	1.93	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:1306:ASP:HB2	1:H:2759:GLN:OE1	1.93	0.67
2:D:1391:THR:HA	1:F:1961:ARG:HH11	1.60	0.67
1:I:3126:MET:CE	1:I:3246:VAL:HG11	2.24	0.67
1:J:3879:VAL:HG13	1:J:3885:LEU:HB2	1.77	0.67
1:A:147:ALA:HB3	1:A:155:GLN:HB2	1.77	0.67
1:C:1025:LYS:CA	1:E:1795:ALA:CA	2.62	0.67
2:D:1289:THR:HA	1:K:3947:GLN:OE1	1.94	0.67
2:D:1409:TYR:HD2	1:M:4741:PHE:CE2	2.13	0.67
1:E:1813:LEU:O	1:E:1817:VAL:HG22	1.94	0.67
1:F:2178:VAL:CA	1:I:3345:LEU:HD22	2.22	0.67
1:F:2191:ALA:HB2	1:I:3345:LEU:HD23	1.77	0.67
1:F:2203:ILE:H	1:I:3376:GLY:HA2	1.60	0.67
1:F:2213:VAL:HG22	1:I:3416:ARG:NE	2.09	0.67
1:F:2227:LEU:HD23	1:I:3340:ILE:HG13	1.77	0.67
1:G:2626:GLY:CA	1:M:5001:ASP:N	2.49	0.67
1:H:2953:LEU:CD2	1:K:4143:LYS:O	2.43	0.67
1:H:3019:LEU:HD23	1:K:4209:ASP:OD2	1.94	0.67
1:L:4453:ALA:HB3	1:L:4461:GLN:HB2	1.77	0.67
1:A:29:THR:CG2	2:D:1494:PHE:CE1	2.61	0.67
1:B:528:ASN:ND2	1:B:531:GLY:H	1.93	0.67
1:C:1093:LYS:HE2	1:E:1836:GLN:NE2	2.10	0.67
2:D:1398:ALA:O	1:H:2762:PHE:CD1	2.45	0.67
1:H:3087:VAL:O	1:H:3087:VAL:HG12	1.94	0.67
1:M:4834:ASN:ND2	1:M:4837:GLY:H	1.93	0.67
1:B:431:ASN:HA	2:D:1232:THR:HA	1.77	0.67
1:C:1022:GLU:C	1:E:1778:PHE:HZ	2.03	0.67
1:C:1093:LYS:HE2	1:E:1836:GLN:CD	2.20	0.67
2:D:1411:GLY:HA2	1:L:4345:PHE:CA	2.11	0.67
1:E:1666:ASN:ND2	1:E:1669:GLY:H	1.93	0.67
1:F:2198:LEU:HD23	1:I:3419:LYS:CA	2.25	0.67
1:F:2210:ARG:HA	1:I:3416:ARG:HH12	0.85	0.67
1:H:2958:LYS:CA	1:K:4172:GLY:HA3	2.24	0.67
1:L:4671:VAL:HG13	1:L:4677:LEU:HB2	1.77	0.67
1:C:1027:MET:CE	1:E:1771:VAL:CB	2.72	0.66
2:D:1211:PHE:N	1:J:3554:PHE:CD1	2.62	0.66
1:F:2209:LEU:O	1:F:2213:VAL:HG22	1.94	0.66
1:G:2624:ARG:CD	1:M:4940:ASP:O	2.43	0.66
1:H:2957:MET:CB	1:K:4147:VAL:HG12	2.25	0.66
1:H:3021:ASP:OD1	1:K:4206:LEU:O	2.14	0.66
1:L:4563:ALA:CB	1:L:4611:VAL:CG1	2.70	0.66
2:D:1275:SER:C	1:G:2363:GLN:HG2	2.19	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:1309:MET:HG3	1:F:1968:GLN:HE22	1.59	0.66
2:D:1366:ASP:CG	1:F:1970:PHE:CD2	2.73	0.66
1:F:2062:ASN:ND2	1:F:2065:GLY:H	1.93	0.66
1:F:2155:THR:O	1:I:3379:ALA:CB	2.44	0.66
1:F:2189:ILE:HG13	1:I:3384:THR:OG1	1.94	0.66
1:L:4314:MET:CE	1:L:4434:VAL:HG11	2.24	0.66
1:B:435:PHE:CD1	2:D:1189:ALA:C	2.72	0.66
2:D:1217:VAL:HG22	1:J:3548:ARG:NH2	1.90	0.66
1:E:1681:ALA:HB3	1:E:1689:GLN:HB2	1.77	0.66
1:E:1899:VAL:O	1:E:1899:VAL:HG12	1.94	0.66
1:F:2208:ALA:HB3	1:I:3378:LYS:NZ	2.06	0.66
1:F:2295:VAL:HG13	1:F:2301:LEU:HB2	1.77	0.66
1:G:2562:LYS:CA	1:M:4937:MET:SD	2.78	0.66
1:H:2957:MET:C	1:K:4172:GLY:HA2	2.19	0.66
1:B:543:ALA:HB3	1:B:551:GLN:HB2	1.77	0.66
1:C:1090:ARG:HG2	1:E:1829:GLY:O	1.94	0.66
1:J:3771:ALA:CB	1:J:3819:VAL:CG1	2.70	0.66
1:A:33:PRO:CG	2:D:1204:LYS:CB	2.43	0.66
1:A:365:VAL:O	1:A:365:VAL:HG12	1.94	0.66
2:D:1260:TRP:HE1	1:I:3155:GLN:CG	2.09	0.66
2:D:1525:ILE:HA	1:J:3545:ARG:HB2	1.75	0.66
1:F:2171:ARG:HH11	1:I:3370:SER:H	1.42	0.66
1:F:2290:ALA:N	1:F:2293:GLN:O	2.21	0.66
1:G:2691:VAL:O	1:G:2691:VAL:HG12	1.94	0.66
1:H:2986:VAL:HG21	1:K:4208:ARG:NH1	2.07	0.66
1:I:3483:VAL:O	1:I:3483:VAL:HG12	1.94	0.66
1:A:360:ALA:N	1:A:363:GLN:O	2.21	0.66
1:C:1088:LEU:CD2	1:E:1834:GLY:O	2.42	0.66
2:D:1448:GLU:HB2	1:K:3947:GLN:N	2.10	0.66
1:F:2157:LEU:HD13	1:I:3366:VAL:O	1.95	0.66
1:F:2178:VAL:HB	1:I:3382:VAL:HG11	1.77	0.66
1:F:2179:LEU:CG	1:I:3355:VAL:O	2.40	0.66
1:F:2203:ILE:H	1:I:3377:ILE:N	1.93	0.66
1:F:2227:LEU:HD21	1:I:3338:LEU:C	2.21	0.66
1:F:2228:ARG:N	1:I:3338:LEU:HD23	2.10	0.66
2:D:1289:THR:HA	1:K:3947:GLN:CD	2.20	0.66
2:D:1425:GLN:O	1:K:3947:GLN:CB	2.44	0.66
2:D:1482:ILE:HG13	1:M:4738:PHE:HD2	1.61	0.66
2:D:1488:VAL:CA	1:K:3941:ARG:HB3	2.25	0.66
2:D:1523:ASP:HB3	1:J:3548:ARG:CD	2.14	0.66
1:E:1899:VAL:HG13	1:E:1905:LEU:HB2	1.77	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:2178:VAL:O	1:I:3358:GLN:HG3	0.84	0.66
1:F:2185:ALA:CA	1:I:3357:ALA:HB1	2.25	0.66
1:F:2196:THR:OG1	1:I:3372:ALA:CB	2.44	0.66
1:G:2626:GLY:HA3	1:M:5003:LYS:HG2	1.73	0.66
1:H:2957:MET:HA	1:K:4154:PHE:CZ	2.30	0.66
1:I:3265:ALA:HB3	1:I:3273:GLN:HB2	1.77	0.66
1:I:3433:ASN:ND2	1:I:3486:ILE:HD13	2.11	0.66
1:J:3661:ALA:HB3	1:J:3669:GLN:HB2	1.77	0.66
2:D:1475:ARG:CB	1:M:4734:MET:SD	2.84	0.66
1:F:2077:ALA:HB3	1:F:2085:GLN:HB2	1.77	0.66
1:F:2194:VAL:C	1:I:3363:VAL:HG21	2.19	0.66
1:F:2225:GLY:H	1:I:3421:VAL:CG2	2.06	0.66
1:G:2357:ARG:O	1:G:2358:MET:HE3	1.88	0.66
1:H:2958:LYS:CA	1:K:4172:GLY:CA	2.73	0.66
1:K:4228:ASP:OD1	1:K:4282:ARG:NH1	2.27	0.66
1:B:404:MET:CE	1:B:524:VAL:HG11	2.24	0.66
1:B:631:MET:HB3	1:J:3752:ASP:CG	2.21	0.66
1:C:1025:LYS:HG3	1:E:1795:ALA:CB	2.12	0.66
1:C:1029:VAL:HG23	1:E:1794:LYS:N	2.08	0.66
2:D:1383:GLY:HA3	1:L:4344:GLN:O	1.94	0.66
2:D:1389:LYS:HZ1	1:F:1959:THR:C	2.04	0.66
2:D:1446:ASN:ND2	1:M:4739:GLN:CD	2.54	0.66
1:G:2624:ARG:CG	1:M:4999:LEU:HD21	2.02	0.66
1:G:2627:LYS:O	1:M:5001:ASP:HB3	1.94	0.66
1:A:365:VAL:HG13	1:A:371:LEU:HB2	1.77	0.66
1:B:711:ASN:ND2	1:B:764:ILE:HD13	2.11	0.66
1:F:2224:LEU:HD12	1:I:3414:LEU:H	1.59	0.66
1:K:4275:VAL:HG13	1:K:4281:LEU:HB2	1.77	0.66
1:A:34:ARG:HH21	2:D:1496:LYS:CA	1.96	0.65
1:A:132:ASN:ND2	1:A:135:GLY:H	1.93	0.65
1:C:924:ASN:ND2	1:C:927:GLY:H	1.93	0.65
1:C:1091:ASP:CA	1:E:1828:LEU:O	2.42	0.65
2:D:1247:GLN:HB3	1:I:3153:ASN:C	2.18	0.65
2:D:1526:VAL:HG23	1:J:3545:ARG:CD	2.15	0.65
1:F:1938:MET:CE	1:F:2058:VAL:HG11	2.24	0.65
1:F:2245:ASN:ND2	1:F:2298:ILE:HD13	2.11	0.65
1:G:2458:ASN:ND2	1:G:2461:GLY:H	1.93	0.65
1:G:2588:GLY:HA3	1:M:4940:ASP:CA	2.25	0.65
1:G:2627:LYS:CD	1:M:4999:LEU:HG	2.27	0.65
1:H:2952:GLU:O	1:K:4145:MET:HA	1.96	0.65
1:J:3646:ASN:ND2	1:J:3649:GLY:H	1.93	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:318:ASP:OD1	1:A:372:ARG:NH1	2.26	0.65
1:B:434:GLN:NE2	2:D:1230:GLY:HA3	2.10	0.65
1:B:434:GLN:NE2	2:D:1231:GLU:N	2.42	0.65
1:C:939:ALA:HB3	1:C:947:GLN:HB2	1.77	0.65
2:D:1275:SER:O	1:G:2363:GLN:HG2	1.96	0.65
2:D:1324:PHE:O	1:G:2357:ARG:HB3	1.96	0.65
2:D:1336:GLN:N	1:F:1967:GLN:NE2	2.44	0.65
1:E:1542:MET:CE	1:E:1662:VAL:HG11	2.24	0.65
1:E:1877:GLY:C	1:E:1879:PRO:HD3	2.22	0.65
1:F:2230:GLY:C	1:I:3410:LEU:HD11	2.20	0.65
1:K:4169:ILE:CG1	1:K:4206:LEU:HD11	2.27	0.65
1:L:4621:ASN:ND2	1:L:4674:ILE:HD13	2.11	0.65
1:M:5020:ASP:OD1	1:M:5074:ARG:NH1	2.26	0.65
1:C:1107:ASN:ND2	1:C:1160:ILE:HD13	2.11	0.65
2:D:1322:THR:CG2	1:G:2361:ASN:ND2	2.47	0.65
2:D:1340:LYS:N	1:F:1970:PHE:HD2	1.94	0.65
2:D:1386:SER:H	1:L:4343:GLN:NE2	1.94	0.65
1:F:2179:LEU:CB	1:I:3355:VAL:O	2.43	0.65
1:G:2641:ASN:ND2	1:G:2694:ILE:HD13	2.11	0.65
1:I:3483:VAL:HG13	1:I:3489:LEU:HB2	1.77	0.65
1:M:4849:ALA:HB3	1:M:4857:GLN:HB2	1.77	0.65
1:A:8:MET:CE	1:A:128:VAL:HG11	2.24	0.65
1:A:260:LYS:HZ2	1:L:4547:ARG:CZ	2.09	0.65
1:A:298:ARG:CA	1:L:4569:ASP:HB3	2.26	0.65
1:C:800:MET:CE	1:C:920:VAL:HG11	2.24	0.65
2:D:1387:SER:OG	1:F:1964:ARG:N	2.21	0.65
1:F:2231:LYS:HZ3	1:I:3400:GLN:CB	2.01	0.65
1:H:2958:LYS:HD3	1:K:4155:VAL:O	1.96	0.65
1:H:3065:GLY:C	1:H:3067:PRO:HD3	2.22	0.65
1:I:3461:GLY:C	1:I:3463:PRO:HD3	2.22	0.65
1:J:3857:GLY:C	1:J:3859:PRO:HD3	2.22	0.65
1:L:4565:ILE:HG12	1:L:4602:LEU:CD1	2.27	0.65
1:M:4710:MET:CE	1:M:4830:VAL:HG11	2.24	0.65
1:A:259:ILE:HG12	1:A:296:LEU:CD1	2.27	0.65
1:B:655:ILE:CG1	1:B:692:LEU:HD11	2.27	0.65
1:C:1026:ALA:CA	1:E:1778:PHE:CZ	2.54	0.65
2:D:1363:GLN:N	1:H:2757:ASN:ND2	2.44	0.65
1:F:2187:ALA:CB	1:F:2235:VAL:CG1	2.70	0.65
1:F:2190:LYS:HZ3	1:I:3393:SER:HB3	1.61	0.65
1:F:2233:VAL:HG22	1:I:3385:SER:O	1.75	0.65
1:H:2869:ALA:HB3	1:H:2877:GLN:HB2	1.77	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:2957:MET:CE	1:K:4146:LYS:CB	2.48	0.65
1:H:2960:ASP:O	1:K:4208:ARG:CD	2.45	0.65
1:A:296:LEU:HB2	1:L:4606:GLY:N	2.12	0.65
1:C:1051:ILE:CG1	1:C:1088:LEU:HD11	2.27	0.65
2:D:1445:GLN:H	1:M:4738:PHE:HD1	1.41	0.65
2:D:1463:LEU:CB	1:K:3942:MET:CE	2.14	0.65
2:D:1505:LYS:HE3	1:J:3552:GLN:CD	2.22	0.65
1:F:2231:LYS:NZ	1:I:3400:GLN:CA	2.58	0.65
1:G:2473:ALA:HB3	1:G:2481:GLN:HB2	1.77	0.65
1:G:2691:VAL:HG13	1:G:2697:LEU:HB2	1.77	0.65
1:M:5017:ASN:ND2	1:M:5070:ILE:HD13	2.11	0.65
1:C:1135:GLY:C	1:C:1137:PRO:HD3	2.21	0.65
2:D:1211:PHE:CB	1:J:3545:ARG:HH12	2.10	0.65
2:D:1360:ALA:CB	1:H:2755:PRO:C	2.69	0.65
2:D:1446:ASN:OD1	1:K:3949:PHE:CE2	2.50	0.65
2:D:1482:ILE:CB	1:M:4738:PHE:HE2	2.06	0.65
1:F:2175:VAL:HG13	1:I:3382:VAL:CG2	2.14	0.65
1:F:2229:ASP:O	1:I:3338:LEU:HB2	1.94	0.65
1:H:3037:ASN:ND2	1:H:3090:ILE:HD13	2.11	0.65
1:K:4253:GLY:C	1:K:4255:PRO:HD3	2.22	0.65
1:M:5045:GLY:C	1:M:5047:PRO:HD3	2.22	0.65
1:A:259:ILE:CG1	1:A:296:LEU:HD11	2.27	0.65
1:B:739:GLY:C	1:B:741:PRO:HD3	2.21	0.65
2:D:1278:TYR:HE1	1:F:1969:PHE:CE2	2.13	0.65
2:D:1474:GLY:CA	1:M:4732:PRO:HB2	2.25	0.65
1:F:2196:THR:HG21	1:I:3372:ALA:HA	1.78	0.65
1:F:2228:ARG:HD3	1:I:3397:LEU:HB3	0.89	0.65
1:F:2230:GLY:N	1:I:3338:LEU:CD2	2.59	0.65
1:H:3021:ASP:N	1:K:4211:LYS:CG	2.46	0.65
1:K:4167:ALA:CB	1:K:4215:VAL:CG1	2.70	0.65
1:A:315:ASN:ND2	1:A:368:ILE:HD13	2.11	0.65
1:A:343:GLY:C	1:A:345:PRO:HD3	2.21	0.65
1:B:653:ALA:CB	1:B:701:VAL:CG1	2.70	0.65
1:C:1051:ILE:HG12	1:C:1088:LEU:CD1	2.27	0.65
2:D:1316:PHE:O	1:E:1571:GLN:CB	2.44	0.65
2:D:1425:GLN:NE2	1:K:3947:GLN:O	2.30	0.65
2:D:1452:GLN:HE21	1:K:3943:PRO:HD2	1.56	0.65
1:L:4649:GLY:C	1:L:4651:PRO:HD3	2.22	0.65
1:B:761:VAL:HG13	1:B:767:LEU:HB2	1.77	0.65
1:C:1023:LEU:HG	1:E:1769:MET:CB	2.27	0.65
2:D:1218:ASP:OD1	1:J:3554:PHE:CZ	2.45	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:1247:GLN:HB3	1:I:3153:ASN:OD1	1.97	0.65
2:D:1320:ARG:N	1:G:2363:GLN:CG	2.58	0.65
2:D:1439:GLY:CA	1:M:4735:PRO:CD	2.42	0.65
2:D:1446:ASN:OD1	1:M:4738:PHE:CE1	2.50	0.65
2:D:1464:ALA:HA	1:K:3944:ARG:NE	2.12	0.65
1:F:2179:LEU:N	1:I:3356:ASP:N	2.40	0.65
1:F:2196:THR:CG2	1:I:3376:GLY:C	2.69	0.65
1:F:2203:ILE:HB	1:I:3377:ILE:HA	1.77	0.65
1:F:2225:GLY:C	1:I:3414:LEU:HG	2.22	0.65
1:F:2228:ARG:HH12	1:I:3398:ARG:CB	2.02	0.65
1:G:2624:ARG:HB3	1:M:4999:LEU:CD2	0.43	0.65
1:B:634:ASP:OD1	1:J:3777:ASP:OD1	2.15	0.64
1:B:714:ASP:OD1	1:B:768:ARG:NH1	2.27	0.64
1:C:1157:VAL:HG13	1:C:1163:LEU:HB2	1.77	0.64
2:D:1320:ARG:HA	1:G:2364:GLN:CB	2.12	0.64
2:D:1431:ASN:ND2	1:M:4742:PHE:CB	2.60	0.64
1:F:2171:ARG:NH2	1:I:3372:ALA:HB3	2.07	0.64
1:B:426:PRO:HB3	2:D:1195:ASP:OD2	1.98	0.64
1:B:655:ILE:HG12	1:B:692:LEU:CD1	2.27	0.64
1:C:1027:MET:HG2	1:E:1778:PHE:CA	2.14	0.64
2:D:1217:VAL:HB	1:J:3552:GLN:O	1.98	0.64
2:D:1389:LYS:CB	1:F:1961:ARG:O	2.45	0.64
2:D:1463:LEU:HD21	1:K:3940:PRO:HA	1.75	0.64
1:E:1721:ASP:OD1	1:E:1722:GLY:O	2.16	0.64
1:F:2224:LEU:HD21	1:I:3419:LYS:H	1.62	0.64
1:F:2273:GLY:C	1:F:2275:PRO:HD3	2.22	0.64
1:J:3712:PRO:O	1:J:3716:VAL:HG23	1.97	0.64
1:K:4057:ALA:HB3	1:K:4065:GLN:HB2	1.77	0.64
1:M:4889:ASP:OD1	1:M:4890:GLY:O	2.16	0.64
1:M:4961:ILE:CG1	1:M:4998:LEU:HD11	2.27	0.64
1:A:260:LYS:CG	1:L:4545:ALA:N	2.61	0.64
1:C:990:PRO:O	1:C:994:VAL:HG23	1.98	0.64
1:C:1089:LEU:CD2	1:E:1837:VAL:N	2.60	0.64
2:D:1260:TRP:CH2	1:I:3155:GLN:CB	2.76	0.64
2:D:1384:ALA:O	1:L:4343:GLN:HG2	1.97	0.64
1:E:1849:ASN:ND2	1:E:1902:ILE:HD13	2.11	0.64
1:G:2334:MET:CE	1:G:2454:VAL:HG11	2.24	0.64
1:G:2669:GLY:C	1:G:2671:PRO:HD3	2.22	0.64
1:H:2981:ILE:CG1	1:H:3018:LEU:HD11	2.27	0.64
1:J:3522:MET:CE	1:J:3642:VAL:HG11	2.24	0.64
1:J:3829:ASN:ND2	1:J:3882:ILE:HD13	2.11	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:4108:PRO:O	1:K:4112:VAL:HG23	1.98	0.64
1:A:198:PRO:O	1:A:202:VAL:HG23	1.97	0.64
1:F:2179:LEU:HD23	1:I:3355:VAL:O	1.97	0.64
1:G:2513:ASP:OD1	1:G:2514:GLY:O	2.16	0.64
1:H:2958:LYS:CB	1:K:4171:ALA:O	2.45	0.64
1:H:3087:VAL:HG13	1:H:3093:LEU:HB2	1.77	0.64
1:K:4097:ASP:OD1	1:K:4098:GLY:O	2.16	0.64
1:A:187:ASP:OD1	1:A:188:GLY:O	2.16	0.64
1:A:297:LEU:C	1:L:4607:LYS:HG2	2.22	0.64
1:B:430:ARG:HE	2:D:1197:ASN:N	1.95	0.64
1:C:1022:GLU:OE1	1:E:1769:MET:HG2	1.90	0.64
2:D:1506:ILE:HD11	1:K:3941:ARG:HH22	1.61	0.64
1:F:2167:VAL:CG1	1:I:3364:SER:HB3	2.28	0.64
1:G:2562:LYS:N	1:M:4937:MET:H	1.94	0.64
1:G:2585:ILE:CG1	1:G:2622:LEU:HD11	2.27	0.64
1:G:2623:LEU:HD23	1:M:5000:ARG:CA	2.13	0.64
1:H:2909:ASP:OD1	1:H:2910:GLY:O	2.16	0.64
1:J:3701:ASP:OD1	1:J:3702:GLY:O	2.16	0.64
1:K:4169:ILE:HG12	1:K:4206:LEU:CD1	2.27	0.64
1:M:5067:VAL:HG13	1:M:5073:LEU:HB2	1.77	0.64
1:A:231:LEU:HD21	1:L:4540:ALA:O	1.92	0.64
2:D:1482:ILE:CG1	1:M:4738:PHE:CD2	2.81	0.64
1:F:2128:PRO:O	1:F:2132:VAL:HG23	1.98	0.64
1:F:2195:ILE:CD1	1:I:3381:ASP:O	2.35	0.64
1:G:2563:VAL:CG2	1:M:4937:MET:HB3	1.94	0.64
1:I:3377:ILE:CG1	1:I:3414:LEU:HD11	2.27	0.64
1:A:30:PRO:O	2:D:1499:SER:CA	2.40	0.64
1:A:263:ASP:HB3	1:L:4605:ASP:CG	2.23	0.64
2:D:1322:THR:HG23	1:G:2361:ASN:HD21	1.56	0.64
1:F:2185:ALA:CB	1:I:3357:ALA:HA	2.26	0.64
1:I:3377:ILE:HG12	1:I:3414:LEU:CD1	2.27	0.64
1:L:4624:ASP:OD1	1:L:4678:ARG:NH1	2.26	0.64
1:A:301:LYS:NZ	1:L:4601:GLY:HA3	2.11	0.64
2:D:1385:ILE:HA	1:L:4341:ASN:OD1	1.91	0.64
2:D:1387:SER:C	1:F:1965:ASN:HB2	2.22	0.64
1:J:3874:ALA:N	1:J:3877:GLN:O	2.21	0.64
1:K:4225:ASN:ND2	1:K:4278:ILE:HD13	2.11	0.64
1:L:4565:ILE:CG1	1:L:4602:LEU:HD11	2.27	0.64
1:A:36:PHE:HZ	2:D:1200:ASP:OD2	1.79	0.64
1:B:633:VAL:O	1:J:3812:ARG:NH1	2.30	0.64
1:B:757:ASN:HA	1:B:779:ALA:O	1.98	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1110:ASP:OD1	1:C:1164:ARG:NH1	2.26	0.64
2:D:1249:GLN:HG2	1:I:3154:PHE:HB2	1.66	0.64
2:D:1389:LYS:CA	1:F:1961:ARG:HB2	2.27	0.64
1:H:2981:ILE:HG12	1:H:3018:LEU:CD1	2.27	0.64
1:M:4900:PRO:O	1:M:4904:VAL:HG23	1.97	0.64
1:A:31:ARG:CB	2:D:1493:TYR:HA	2.27	0.64
1:B:594:PRO:O	1:B:598:VAL:HG23	1.97	0.64
1:C:1022:GLU:OE1	1:E:1769:MET:HG3	1.97	0.64
1:C:1153:ASN:HA	1:C:1175:ALA:O	1.98	0.64
2:D:1248:ILE:HA	1:I:3152:ARG:HB3	1.79	0.64
2:D:1369:GLY:N	1:F:1965:ASN:OD1	2.28	0.64
2:D:1447:PHE:C	1:K:3947:GLN:CA	2.67	0.64
2:D:1448:GLU:HB3	1:K:3945:ASN:HB3	1.79	0.64
1:G:2562:LYS:HD2	1:M:4933:LEU:H	1.62	0.64
1:I:3305:ASP:OD1	1:I:3306:GLY:O	2.16	0.64
1:K:3918:MET:CE	1:K:4038:VAL:HG11	2.24	0.64
1:L:4493:ASP:OD1	1:L:4494:GLY:O	2.16	0.64
1:B:630:ALA:CA	1:J:3749:MET:C	2.66	0.63
1:E:1852:ASP:OD1	1:E:1906:ARG:NH1	2.26	0.63
1:F:2117:ASP:OD1	1:F:2118:GLY:O	2.16	0.63
1:F:2196:THR:HG22	1:I:3376:GLY:CA	2.26	0.63
1:F:2204:SER:CA	1:I:3378:LYS:CG	2.70	0.63
1:F:2209:LEU:CD2	1:I:3416:ARG:CB	2.23	0.63
1:G:2524:PRO:O	1:G:2528:VAL:HG23	1.98	0.63
1:M:5031:LYS:HB2	1:M:5038:VAL:HB	1.81	0.63
1:A:33:PRO:N	2:D:1531:VAL:C	2.56	0.63
1:A:295:GLY:C	1:L:4607:LYS:HZ3	1.95	0.63
1:C:979:ASP:OD1	1:C:980:GLY:O	2.16	0.63
2:D:1211:PHE:CB	1:J:3545:ARG:NH1	2.60	0.63
2:D:1465:TYR:O	1:K:3948:GLN:O	1.96	0.63
2:D:1487:ASP:C	1:K:3941:ARG:CG	2.72	0.63
2:D:1506:ILE:HD12	1:K:3941:ARG:HH11	1.52	0.63
1:G:2565:ALA:HB1	1:G:2567:ARG:NH2	2.14	0.63
1:G:2585:ILE:HG12	1:G:2622:LEU:CD1	2.27	0.63
1:G:2655:LYS:HB2	1:G:2662:VAL:HB	1.81	0.63
1:B:583:ASP:OD1	1:B:584:GLY:O	2.16	0.63
2:D:1389:LYS:CA	1:F:1961:ARG:O	2.46	0.63
1:E:1732:PRO:O	1:E:1736:VAL:HG23	1.97	0.63
1:F:2203:ILE:CG2	1:I:3378:LYS:CG	2.66	0.63
1:F:2228:ARG:HB2	1:I:3397:LEU:HD13	0.67	0.63
1:A:301:LYS:CD	1:L:4607:LYS:C	2.66	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1031:ALA:HB1	1:C:1033:ARG:NH2	2.14	0.63
2:D:1320:ARG:C	1:G:2361:ASN:OD1	2.17	0.63
1:E:1773:ALA:HB1	1:E:1775:ARG:NH2	2.14	0.63
1:F:2226:LEU:CA	1:I:3377:ILE:HD11	2.28	0.63
1:F:2231:LYS:CD	1:I:3386:LEU:CD1	2.50	0.63
1:G:2624:ARG:H	1:M:4999:LEU:HD23	1.61	0.63
1:H:2730:MET:CE	1:H:2850:VAL:HG11	2.24	0.63
1:H:2952:GLU:O	1:K:4144:ALA:O	2.17	0.63
1:C:1121:LYS:HB2	1:C:1128:VAL:HB	1.81	0.63
2:D:1442:ASN:H	1:M:4736:ARG:NE	1.96	0.63
1:H:2957:MET:CB	1:K:4147:VAL:CG1	2.76	0.63
1:J:3773:ILE:CG1	1:J:3810:LEU:HD11	2.27	0.63
1:L:4545:ALA:HB1	1:L:4547:ARG:NH2	2.13	0.63
1:A:261:ALA:HB3	1:L:4544:ASP:N	2.14	0.63
1:A:359:GLY:HA3	1:A:385:ASN:CB	2.27	0.63
1:C:1093:LYS:HE2	1:E:1836:GLN:HE22	1.62	0.63
2:D:1447:PHE:CZ	1:K:3946:PHE:HA	2.34	0.63
1:F:2171:ARG:HE	1:I:3366:VAL:CG2	2.11	0.63
1:F:2172:GLY:HA2	1:I:3378:LYS:CG	2.28	0.63
1:F:2210:ARG:CB	1:I:3416:ARG:HH12	2.10	0.63
1:G:2583:ALA:CB	1:G:2631:VAL:CG1	2.70	0.63
1:H:2920:PRO:O	1:H:2924:VAL:HG23	1.97	0.63
1:H:2960:ASP:OD1	1:K:4173:ASP:OD2	2.14	0.63
1:H:3007:THR:O	1:H:3007:THR:HG22	1.99	0.63
1:H:3040:ASP:OD1	1:H:3094:ARG:NH1	2.26	0.63
1:M:4941:ALA:HB1	1:M:4943:ARG:NH2	2.14	0.63
1:M:4961:ILE:HG12	1:M:4998:LEU:CD1	2.27	0.63
1:C:1027:MET:O	1:E:1797:ASP:O	2.17	0.63
1:C:1093:LYS:CE	1:E:1836:GLN:NE2	2.61	0.63
2:D:1475:ARG:H	1:M:4732:PRO:HB2	1.63	0.63
1:F:2169:ALA:CA	1:I:3339:GLY:O	2.43	0.63
1:F:2171:ARG:CD	1:I:3366:VAL:HG22	2.29	0.63
1:F:2194:VAL:HG12	1:I:3366:VAL:HB	1.81	0.63
1:F:2197:SER:H	1:I:3377:ILE:HG13	1.64	0.63
1:F:2227:LEU:HD23	1:I:3340:ILE:CG1	2.29	0.63
1:G:2626:GLY:HA3	1:M:5003:LYS:H	0.82	0.63
1:H:2985:ASP:CG	1:K:4209:ASP:HA	2.21	0.63
1:I:3316:PRO:O	1:I:3320:VAL:HG23	1.98	0.63
1:I:3403:THR:O	1:I:3403:THR:HG22	1.99	0.63
1:I:3479:ASN:HA	1:I:3501:ALA:O	1.98	0.63
1:J:3843:LYS:HB2	1:J:3850:VAL:HB	1.81	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:4504:PRO:O	1:L:4508:VAL:HG23	1.98	0.63
1:M:5063:ASN:HA	1:M:5085:ALA:O	1.98	0.63
1:A:298:ARG:O	1:L:4569:ASP:HB2	1.96	0.63
1:B:634:ASP:OD2	1:J:3811:LEU:O	2.16	0.63
1:C:1028:LYS:HZ1	1:E:1757:MET:CB	2.06	0.63
1:C:1030:ASP:O	1:E:1830:LEU:CD1	2.46	0.63
1:E:1895:ASN:HA	1:E:1917:ALA:O	1.98	0.63
1:G:2686:ALA:N	1:G:2689:GLN:O	2.21	0.63
1:I:3447:LYS:HB2	1:I:3454:VAL:HB	1.81	0.63
1:L:4635:LYS:HB2	1:L:4642:VAL:HB	1.80	0.63
1:A:260:LYS:CD	1:L:4545:ALA:N	2.24	0.63
2:D:1506:ILE:HD13	1:K:3941:ARG:HH12	1.50	0.63
1:F:2185:ALA:CB	1:I:3358:GLN:N	2.55	0.63
1:F:2190:LYS:NZ	1:I:3393:SER:HB3	2.14	0.63
1:F:2209:LEU:CD2	1:I:3416:ARG:HB3	2.25	0.63
1:F:2215:THR:HG22	1:F:2215:THR:O	1.99	0.63
1:B:434:GLN:CG	2:D:1199:LEU:HB2	2.29	0.62
1:C:1028:LYS:CD	1:E:1757:MET:N	2.62	0.62
2:D:1433:THR:HG21	1:M:4739:GLN:NE2	2.00	0.62
2:D:1485:TYR:HB3	1:K:3951:GLY:O	1.99	0.62
1:F:2233:VAL:HG23	1:I:3413:GLY:O	1.98	0.62
1:J:3773:ILE:HG12	1:J:3810:LEU:CD1	2.27	0.62
1:K:4149:ALA:HB1	1:K:4151:ARG:NH2	2.14	0.62
1:A:260:LYS:CB	1:L:4544:ASP:HB3	2.12	0.62
1:B:635:ALA:HB1	1:B:637:ARG:NH2	2.14	0.62
2:D:1272:ASP:O	1:G:2360:ARG:HG2	1.97	0.62
2:D:1389:LYS:CE	1:F:1960:PRO:C	2.65	0.62
1:F:2169:ALA:HB1	1:F:2171:ARG:NH2	2.14	0.62
1:F:2170:GLN:CB	1:I:3368:PRO:HD3	2.29	0.62
1:F:2194:VAL:HG11	1:I:3365:GLN:C	2.23	0.62
1:F:2259:LYS:HB2	1:F:2266:VAL:HB	1.81	0.62
1:J:3753:ALA:HB1	1:J:3755:ARG:NH2	2.14	0.62
1:K:4195:THR:O	1:K:4195:THR:HG22	1.99	0.62
1:L:4591:THR:O	1:L:4591:THR:HG22	1.99	0.62
1:A:329:LYS:HB2	1:A:336:VAL:HB	1.80	0.62
1:B:725:LYS:HB2	1:B:732:VAL:HB	1.81	0.62
1:C:1089:LEU:CD2	1:E:1837:VAL:CG2	2.61	0.62
2:D:1243:GLN:O	1:E:1572:GLN:NE2	2.31	0.62
2:D:1425:GLN:CA	1:K:3946:PHE:CZ	2.33	0.62
2:D:1442:ASN:C	1:M:4740:GLN:O	2.41	0.62
1:F:2169:ALA:HB2	1:I:3339:GLY:HA3	1.80	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:2227:LEU:HD21	1:I:3339:GLY:N	2.08	0.62
1:F:2227:LEU:CD2	1:I:3340:ILE:CG1	2.71	0.62
1:G:2687:ASN:HA	1:G:2709:ALA:O	1.98	0.62
1:H:2952:GLU:C	1:K:4144:ALA:O	2.43	0.62
1:J:3832:ASP:OD1	1:J:3886:ARG:NH1	2.26	0.62
1:K:4271:ASN:HA	1:K:4293:ALA:O	1.98	0.62
1:A:361:ASN:HA	1:A:383:ALA:O	1.98	0.62
2:D:1275:SER:C	1:G:2363:GLN:HB3	2.24	0.62
1:J:3875:ASN:HA	1:J:3897:ALA:O	1.98	0.62
1:L:4667:ASN:HA	1:L:4689:ALA:O	1.98	0.62
1:M:5063:ASN:OD1	1:M:5085:ALA:N	2.25	0.62
1:B:430:ARG:NH1	2:D:1192:TYR:CZ	2.63	0.62
1:B:766:GLU:O	1:B:769:LYS:HB3	2.00	0.62
1:C:1077:THR:O	1:C:1077:THR:HG22	1.99	0.62
2:D:1306:ASP:HB3	1:H:2759:GLN:NE2	2.12	0.62
1:F:2171:ARG:CG	1:I:3367:LEU:O	2.47	0.62
1:F:2300:GLU:O	1:F:2303:LYS:HB3	2.00	0.62
1:H:3083:ASN:HA	1:H:3105:ALA:O	1.98	0.62
1:M:4960:GLY:O	1:M:4961:ILE:HG13	2.00	0.62
1:A:34:ARG:O	2:D:1533:GLN:O	2.18	0.62
1:A:285:THR:HG22	1:A:285:THR:O	1.99	0.62
1:B:431:ASN:CB	2:D:1198:LYS:N	2.60	0.62
1:B:695:ASP:OD1	1:J:3814:GLY:HA2	1.93	0.62
1:C:1162:GLU:O	1:C:1165:LYS:HB3	2.00	0.62
2:D:1408:THR:HB	1:L:4343:GLN:OE1	2.00	0.62
1:F:2228:ARG:HG3	1:I:3394:PHE:CE1	2.35	0.62
1:G:2644:ASP:OD1	1:G:2698:ARG:NH1	2.27	0.62
1:H:3051:LYS:HB2	1:H:3058:VAL:HB	1.81	0.62
1:K:4168:GLY:O	1:K:4169:ILE:HG13	1.99	0.62
1:A:370:GLU:O	1:A:373:LYS:HB3	2.00	0.62
2:D:1367:GLY:HA3	1:F:1968:GLN:CB	2.28	0.62
2:D:1426:TYR:H	1:K:3946:PHE:HE1	1.43	0.62
2:D:1449:ALA:HB1	1:K:3944:ARG:HB3	1.82	0.62
2:D:1525:ILE:CD1	1:J:3552:GLN:OE1	2.39	0.62
1:F:2152:ILE:HD13	1:I:3380:GLY:O	1.99	0.62
1:F:2213:VAL:H	1:I:3416:ARG:HH21	1.47	0.62
1:F:2291:ASN:HA	1:F:2313:ALA:O	1.98	0.62
1:G:2625:ASP:OD1	1:M:4966:VAL:C	2.42	0.62
1:H:2958:LYS:C	1:K:4171:ALA:O	2.42	0.62
1:H:2980:GLY:O	1:H:2981:ILE:HG13	2.00	0.62
1:H:3019:LEU:CG	1:K:4211:LYS:HE3	2.07	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:4038:VAL:CG1	1:K:4080:VAL:HG12	2.30	0.62
1:M:5072:GLU:O	1:M:5075:LYS:HB3	2.00	0.62
1:A:239:ALA:HB1	1:A:241:ARG:NH2	2.14	0.62
1:A:264:VAL:HG23	1:L:4604:ARG:HD2	1.82	0.62
1:A:298:ARG:CG	1:L:4569:ASP:HA	2.29	0.62
1:C:1050:GLY:O	1:C:1051:ILE:HG13	2.00	0.62
1:C:1088:LEU:CG	1:E:1834:GLY:HA3	2.24	0.62
2:D:1316:PHE:O	1:E:1571:GLN:HB3	2.00	0.62
2:D:1324:PHE:CD2	1:G:2357:ARG:CB	2.81	0.62
2:D:1508:LEU:HG	1:K:3951:GLY:CA	2.29	0.62
1:H:2850:VAL:CG1	1:H:2892:VAL:HG12	2.30	0.62
1:H:2961:ALA:HB1	1:H:2963:ARG:NH2	2.14	0.62
1:I:3357:ALA:HB1	1:I:3359:ARG:NH2	2.14	0.62
1:J:3571:ASP:HB3	1:J:3576:TYR:HB2	1.82	0.62
1:A:361:ASN:OD1	1:A:383:ALA:N	2.25	0.62
1:C:1153:ASN:OD1	1:C:1175:ALA:N	2.25	0.62
1:E:1895:ASN:OD1	1:E:1917:ALA:N	2.25	0.62
1:F:2169:ALA:HB1	1:I:3370:SER:OG	1.99	0.62
1:F:2248:ASP:OD1	1:F:2302:ARG:NH1	2.27	0.62
1:J:3884:GLU:O	1:J:3887:LYS:HB3	2.00	0.62
1:M:4987:THR:O	1:M:4987:THR:HG22	1.99	0.62
1:B:630:ALA:CB	1:J:3750:LYS:HE2	2.03	0.62
1:F:2185:ALA:CB	1:I:3357:ALA:CB	2.77	0.62
1:I:3149:ARG:HH11	1:I:3149:ARG:HG3	1.65	0.62
1:K:4269:GLY:HA3	1:K:4295:ASN:CB	2.27	0.62
1:L:4676:GLU:O	1:L:4679:LYS:HB3	2.00	0.62
1:C:849:ASP:HB3	1:C:854:TYR:HB2	1.82	0.61
1:C:1023:LEU:O	1:E:1796:GLY:C	2.33	0.61
1:G:2584:GLY:O	1:G:2585:ILE:HG13	2.00	0.61
1:H:3092:GLU:O	1:H:3095:LYS:HB3	2.00	0.61
1:B:755:GLY:HA3	1:B:781:ASN:CB	2.27	0.61
1:F:2192:GLY:HA2	1:I:3343:THR:N	2.13	0.61
1:G:2454:VAL:CG1	1:G:2496:VAL:HG12	2.30	0.61
1:I:3488:GLU:O	1:I:3491:LYS:HB3	2.00	0.61
1:J:3850:VAL:HG22	1:J:3870:VAL:HG22	1.82	0.61
1:M:4759:ASP:HB3	1:M:4764:TYR:HB2	1.82	0.61
1:M:5038:VAL:HG22	1:M:5058:VAL:HG22	1.82	0.61
2:D:1309:MET:CE	1:F:1967:GLN:CG	2.32	0.61
2:D:1431:ASN:ND2	1:M:4742:PHE:CA	2.63	0.61
1:F:2058:VAL:CG1	1:F:2100:VAL:HG12	2.30	0.61
1:F:2193:ASP:HB3	1:I:3383:ILE:HD11	1.74	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:2383:ASP:HB3	1:G:2388:TYR:HB2	1.82	0.61
1:G:2611:THR:HG22	1:G:2611:THR:O	1.99	0.61
1:G:2625:ASP:N	1:M:4999:LEU:CD2	2.60	0.61
1:I:3175:ASP:HB3	1:I:3180:TYR:HB2	1.82	0.61
1:J:3799:THR:O	1:J:3799:THR:HG22	1.99	0.61
1:L:4363:ASP:HB3	1:L:4368:TYR:HB2	1.82	0.61
1:M:4830:VAL:CG1	1:M:4872:VAL:HG12	2.30	0.61
1:B:694:ARG:NH1	1:J:3811:LEU:CD1	2.58	0.61
2:D:1442:ASN:H	1:M:4736:ARG:CZ	2.12	0.61
2:D:1470:GLY:HA2	1:M:4738:PHE:HB3	0.78	0.61
2:D:1505:LYS:HZ2	1:J:3552:GLN:HE22	1.42	0.61
1:F:1961:ARG:HH11	1:F:1961:ARG:HG3	1.65	0.61
1:F:2191:ALA:HB1	1:I:3362:PHE:CD1	2.33	0.61
1:H:3081:GLY:HA3	1:H:3107:ASN:CB	2.27	0.61
1:H:3083:ASN:OD1	1:H:3105:ALA:N	2.25	0.61
1:I:3436:ASP:OD1	1:I:3490:ARG:NH1	2.26	0.61
1:K:3941:ARG:HG3	1:K:3941:ARG:HH11	1.65	0.61
1:L:4667:ASN:OD1	1:L:4689:ALA:N	2.25	0.61
1:M:4733:ARG:HH11	1:M:4733:ARG:HG3	1.65	0.61
1:A:33:PRO:HG2	2:D:1204:LYS:CD	2.29	0.61
1:A:260:LYS:HZ2	1:L:4547:ARG:NH1	1.96	0.61
1:B:732:VAL:HG22	1:B:752:VAL:HG22	1.82	0.61
1:C:1091:ASP:CA	1:E:1828:LEU:C	2.74	0.61
2:D:1338:GLN:CD	1:F:1968:GLN:HG3	2.24	0.61
2:D:1432:ALA:C	1:M:4740:GLN:HE21	2.07	0.61
1:E:1565:ARG:HG3	1:E:1565:ARG:HH11	1.65	0.61
1:F:2194:VAL:HG22	1:I:3365:GLN:H	1.65	0.61
1:G:2696:GLU:O	1:G:2699:LYS:HB3	2.00	0.61
1:H:2958:LYS:C	1:K:4172:GLY:CA	2.50	0.61
1:I:3246:VAL:CG1	1:I:3288:VAL:HG12	2.30	0.61
1:K:4280:GLU:O	1:K:4283:LYS:HB3	2.00	0.61
1:A:32:MET:N	2:D:1499:SER:O	2.29	0.61
1:A:258:GLY:O	1:A:259:ILE:HG13	2.00	0.61
1:C:1152:ALA:N	1:C:1155:GLN:O	2.21	0.61
2:D:1213:ASP:H	1:J:3545:ARG:N	1.99	0.61
2:D:1260:TRP:CD1	1:I:3153:ASN:CB	2.84	0.61
1:E:1793:ILE:HG12	1:E:1830:LEU:CD1	2.27	0.61
1:F:2228:ARG:HD3	1:I:3397:LEU:CD1	2.29	0.61
1:J:3642:VAL:CG1	1:J:3684:VAL:HG12	2.30	0.61
1:B:681:THR:O	1:B:681:THR:HG22	1.99	0.61
1:C:1028:LYS:NZ	1:E:1781:GLN:HG3	2.16	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:1241:TYR:CE1	1:E:1573:PHE:CE1	2.79	0.61
2:D:1429:THR:C	1:M:4741:PHE:CG	2.77	0.61
2:D:1446:ASN:CG	1:K:3949:PHE:CE2	2.78	0.61
1:E:1566:MET:O	1:I:3149:ARG:CD	2.48	0.61
1:E:1591:ASP:HB3	1:E:1596:TYR:HB2	1.82	0.61
1:E:1870:VAL:HG22	1:E:1890:VAL:HG22	1.82	0.61
1:E:1904:GLU:O	1:E:1907:LYS:HB3	2.00	0.61
1:F:2152:ILE:HD12	1:F:2153:MET:CA	2.31	0.61
1:F:2203:ILE:H	1:I:3377:ILE:H	1.45	0.61
1:G:2624:ARG:CB	1:M:4999:LEU:HD21	0.95	0.61
1:H:3019:LEU:CB	1:K:4211:LYS:HZ1	2.13	0.61
1:K:4246:VAL:HG22	1:K:4266:VAL:HG22	1.82	0.61
1:L:4434:VAL:CG1	1:L:4476:VAL:HG12	2.30	0.61
1:A:33:PRO:HA	2:D:1533:GLN:N	2.06	0.61
1:A:336:VAL:HG22	1:A:356:VAL:HG22	1.82	0.61
1:C:920:VAL:CG1	1:C:962:VAL:HG12	2.30	0.61
2:D:1425:GLN:C	1:K:3947:GLN:CB	2.69	0.61
1:F:2188:GLY:O	1:F:2189:ILE:HG13	2.00	0.61
1:F:2203:ILE:H	1:I:3376:GLY:CA	2.14	0.61
1:H:2960:ASP:CB	1:K:4208:ARG:HD2	2.29	0.61
1:A:31:ARG:HG3	1:A:31:ARG:HH11	1.65	0.61
1:A:31:ARG:NH1	2:D:1493:TYR:CD2	2.69	0.61
1:B:691:GLY:HA2	1:B:698:GLN:HG3	1.83	0.61
1:B:705:LEU:HD13	1:B:706:GLN:N	2.16	0.61
1:C:1023:LEU:HD13	1:E:1771:VAL:HG12	1.75	0.61
1:E:1863:LYS:HB2	1:E:1870:VAL:HB	1.81	0.61
1:F:2225:GLY:C	1:I:3414:LEU:CG	2.74	0.61
1:F:2264:GLY:HA2	1:F:2295:VAL:O	2.01	0.61
1:H:2779:ASP:HB3	1:H:2784:TYR:HB2	1.82	0.61
1:I:3427:LEU:HD13	1:I:3428:GLN:N	2.16	0.61
1:L:4615:LEU:HD13	1:L:4616:GLN:N	2.16	0.61
1:A:289:GLY:HA2	1:A:306:ASN:HD21	1.66	0.61
1:A:334:GLY:HA2	1:A:365:VAL:O	2.01	0.61
1:B:524:VAL:CG1	1:B:566:VAL:HG12	2.30	0.61
1:B:730:GLY:HA2	1:B:761:VAL:O	2.01	0.61
1:C:1087:GLY:HA2	1:C:1094:GLN:HG3	1.83	0.61
1:C:1151:GLY:HA3	1:C:1177:ASN:CB	2.27	0.61
2:D:1366:ASP:C	1:F:1964:ARG:HH21	2.09	0.61
2:D:1393:ALA:O	1:H:2753:ARG:O	2.19	0.61
2:D:1451:ALA:HB1	1:K:3942:MET:HG2	1.81	0.61
2:D:1451:ALA:HB1	1:K:3942:MET:CG	2.22	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:2944:ILE:HD12	1:H:2945:MET:CA	2.31	0.61
1:H:2958:LYS:CD	1:K:4156:SER:HA	2.28	0.61
1:J:3772:GLY:O	1:J:3773:ILE:HG13	2.00	0.61
1:L:4337:ARG:HH11	1:L:4337:ARG:HG3	1.65	0.61
1:L:4564:GLY:O	1:L:4565:ILE:HG13	2.00	0.61
1:A:128:VAL:CG1	1:A:170:VAL:HG12	2.30	0.60
1:A:238:ASP:HB3	1:L:4565:ILE:C	2.26	0.60
1:A:298:ARG:HG2	1:L:4569:ASP:CB	2.30	0.60
1:E:1756:ILE:HD12	1:E:1757:MET:CA	2.31	0.60
1:H:3056:GLY:HA2	1:H:3087:VAL:O	2.01	0.60
1:K:4205:GLY:HA2	1:K:4212:GLN:HG3	1.83	0.60
1:K:4239:LYS:HB2	1:K:4246:VAL:HB	1.81	0.60
1:K:4244:GLY:HA2	1:K:4275:VAL:O	2.01	0.60
1:L:4666:ALA:N	1:L:4669:GLN:O	2.21	0.60
1:M:5061:GLY:HA3	1:M:5087:ASN:CB	2.27	0.60
1:A:34:ARG:CB	2:D:1497:ASN:ND2	2.62	0.60
1:B:427:ARG:HG3	1:B:427:ARG:HH11	1.65	0.60
1:B:685:GLY:HA2	1:B:702:ASN:HD21	1.66	0.60
1:C:1023:LEU:HD12	1:E:1771:VAL:HA	1.76	0.60
1:C:1081:GLY:HA2	1:C:1098:ASN:HD21	1.66	0.60
2:D:1505:LYS:HE3	1:J:3552:GLN:OE1	2.01	0.60
1:E:1662:VAL:CG1	1:E:1704:VAL:HG12	2.30	0.60
1:F:2222:LEU:HD12	1:I:3419:LYS:CE	2.30	0.60
1:G:2548:ILE:HD12	1:G:2549:MET:CA	2.31	0.60
1:G:2627:LYS:HE2	1:M:4999:LEU:CB	2.30	0.60
1:G:2662:VAL:HG22	1:G:2682:VAL:HG22	1.82	0.60
1:H:3019:LEU:C	1:K:4211:LYS:HE2	2.26	0.60
1:A:28:ASN:HB3	2:D:1492:TYR:CE1	2.35	0.60
1:A:32:MET:HG3	2:D:1497:ASN:O	2.01	0.60
2:D:1390:ARG:N	1:F:1961:ARG:HB2	2.16	0.60
2:D:1402:ASN:H	1:M:4733:ARG:HB3	1.65	0.60
2:D:1446:ASN:CG	1:K:3949:PHE:HE2	2.10	0.60
2:D:1524:ASN:C	1:J:3545:ARG:HB3	2.25	0.60
1:E:1819:THR:O	1:E:1819:THR:HG22	1.99	0.60
1:F:1987:ASP:HB3	1:F:1992:TYR:HB2	1.82	0.60
1:F:2178:VAL:O	1:I:3358:GLN:HG2	0.82	0.60
1:F:2226:LEU:N	1:I:3377:ILE:HD11	2.16	0.60
1:F:2227:LEU:HA	1:I:3338:LEU:CG	2.30	0.60
1:F:2239:LEU:HD13	1:F:2240:GLN:N	2.16	0.60
1:J:3736:ILE:HD12	1:J:3737:MET:CA	2.31	0.60
1:L:4601:GLY:HA2	1:L:4608:GLN:HG3	1.84	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:31:ARG:HD3	2:D:1492:TYR:O	1.99	0.60
2:D:1272:ASP:HB3	1:G:2359:PRO:HA	1.77	0.60
2:D:1340:LYS:HD2	1:F:1970:PHE:CE1	2.36	0.60
1:F:2177:GLN:HA	1:I:3345:LEU:HD23	1.83	0.60
1:H:3017:GLY:HA2	1:H:3024:GLN:HG3	1.83	0.60
1:L:4595:GLY:HA2	1:L:4612:ASN:HD21	1.66	0.60
1:A:30:PRO:O	2:D:1499:SER:HA	1.60	0.60
1:A:261:ALA:CB	1:L:4544:ASP:OD1	2.47	0.60
1:B:618:ILE:HD12	1:B:619:MET:CA	2.31	0.60
2:D:1276:PHE:HA	1:G:2363:GLN:CB	2.22	0.60
2:D:1320:ARG:CB	1:G:2361:ASN:OD1	2.50	0.60
1:E:1868:GLY:HA2	1:E:1899:VAL:O	2.01	0.60
1:F:2230:GLY:CA	1:I:3338:LEU:CB	2.79	0.60
1:G:2624:ARG:HB2	1:M:4999:LEU:HD21	0.61	0.60
1:H:3011:GLY:HA2	1:H:3028:ASN:HD21	1.66	0.60
1:J:3873:GLY:HA3	1:J:3899:ASN:CB	2.27	0.60
1:K:4132:ILE:HD12	1:K:4133:MET:CA	2.31	0.60
1:L:4528:ILE:HD12	1:L:4529:MET:CA	2.31	0.60
1:L:4642:VAL:HG22	1:L:4662:VAL:HG22	1.82	0.60
1:A:33:PRO:HG2	2:D:1204:LYS:CG	2.29	0.60
1:A:295:GLY:HA2	1:A:302:GLN:HG3	1.83	0.60
1:C:1101:LEU:HD13	1:C:1102:GLN:N	2.16	0.60
2:D:1260:TRP:CH2	1:I:3155:GLN:HB3	2.36	0.60
2:D:1407:GLU:O	1:M:4741:PHE:CZ	2.54	0.60
2:D:1506:ILE:CD1	1:K:3941:ARG:NH2	2.58	0.60
1:F:2219:GLY:HA2	1:F:2236:ASN:HD21	1.66	0.60
1:G:2560:ALA:C	1:M:4935:LYS:CB	2.65	0.60
1:H:3058:VAL:HG22	1:H:3078:VAL:HG22	1.82	0.60
1:I:3454:VAL:HG22	1:I:3474:VAL:HG22	1.82	0.60
1:K:3967:ASP:HB3	1:K:3972:TYR:HB2	1.82	0.60
1:M:4991:GLY:HA2	1:M:5008:ASN:HD21	1.66	0.60
1:M:4997:GLY:HA2	1:M:5004:GLN:HG3	1.83	0.60
1:A:33:PRO:HB3	2:D:1533:GLN:HA	1.83	0.60
1:A:33:PRO:HA	2:D:1531:VAL:C	2.26	0.60
1:A:57:ASP:HB3	1:A:62:TYR:HB2	1.82	0.60
1:B:453:ASP:HB3	1:B:458:TYR:HB2	1.82	0.60
1:C:823:ARG:HH11	1:C:823:ARG:HG3	1.65	0.60
1:C:1014:ILE:HD12	1:C:1015:MET:CA	2.31	0.60
2:D:1525:ILE:HD12	1:J:3552:GLN:CD	2.25	0.60
1:E:1823:GLY:HA2	1:E:1840:ASN:HD21	1.66	0.60
1:F:2205:SER:O	1:I:3378:LYS:HD2	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:2216:MET:CE	1:I:3419:LYS:NZ	2.64	0.60
1:F:2266:VAL:HG22	1:F:2286:VAL:HG22	1.82	0.60
1:H:2985:ASP:HB3	1:K:4209:ASP:HB3	1.84	0.60
1:I:3340:ILE:HD12	1:I:3341:MET:CA	2.31	0.60
1:I:3440:ILE:CG2	1:I:3441:PHE:H	2.05	0.60
1:B:654:GLY:O	1:B:655:ILE:HG13	2.00	0.60
1:C:1128:VAL:HG22	1:C:1148:VAL:HG22	1.82	0.60
2:D:1488:VAL:HA	1:K:3941:ARG:CB	2.32	0.60
1:E:1843:LEU:HD13	1:E:1844:GLN:N	2.16	0.60
1:F:2231:LYS:HB2	1:I:3383:ILE:HG21	1.82	0.60
1:J:3823:LEU:HD13	1:J:3824:GLN:N	2.16	0.60
1:K:4178:LEU:HD21	1:K:4202:LEU:HD12	1.84	0.60
2:D:1214:ASN:CA	1:J:3548:ARG:HG3	2.30	0.60
2:D:1398:ALA:CA	1:H:2753:ARG:HG3	2.23	0.60
1:F:2225:GLY:HA2	1:F:2232:GLN:HG3	1.83	0.60
1:G:2621:GLY:HA2	1:G:2628:GLN:HG3	1.83	0.60
1:G:2635:LEU:HD13	1:G:2636:GLN:N	2.16	0.60
1:G:2660:GLY:HA2	1:G:2691:VAL:O	2.01	0.60
1:I:3194:ILE:CG1	1:I:3206:ALA:HB3	2.32	0.60
1:I:3413:GLY:HA2	1:I:3420:GLN:HG3	1.83	0.60
1:L:4640:GLY:HA2	1:L:4671:VAL:O	2.01	0.60
1:A:222:ILE:HD12	1:A:223:MET:CA	2.31	0.60
1:B:437:GLY:C	2:D:1191:VAL:HB	2.26	0.60
1:C:868:ILE:CG1	1:C:880:ALA:HB3	2.32	0.60
1:C:1126:GLY:HA2	1:C:1157:VAL:O	2.01	0.60
1:F:2157:LEU:CD1	1:I:3366:VAL:CG1	2.74	0.60
1:K:4219:LEU:HD13	1:K:4220:GLN:N	2.16	0.60
1:A:297:LEU:CB	1:L:4604:ARG:HE	2.14	0.59
1:B:431:ASN:C	2:D:1198:LYS:CG	2.48	0.59
1:B:472:ILE:CG1	1:B:484:ALA:HB3	2.32	0.59
1:C:1028:LYS:HZ3	1:E:1757:MET:HB2	1.65	0.59
1:C:1060:LEU:HD21	1:C:1084:LEU:HD12	1.84	0.59
2:D:1340:LYS:HD2	1:F:1970:PHE:CD1	2.37	0.59
2:D:1354:THR:HG23	1:F:1971:GLY:C	2.26	0.59
1:J:3809:GLY:HA2	1:J:3816:GLN:HG3	1.83	0.59
1:A:31:ARG:HG3	2:D:1493:TYR:CD1	2.35	0.59
1:B:430:ARG:NH1	2:D:1192:TYR:CE2	2.70	0.59
1:B:695:ASP:O	1:J:3815:LYS:HA	2.02	0.59
1:C:1027:MET:HB3	1:E:1798:VAL:HA	1.82	0.59
2:D:1324:PHE:HD2	1:G:2357:ARG:HD2	1.59	0.59
2:D:1369:GLY:N	1:F:1967:GLN:HG2	2.16	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:1447:PHE:CE1	1:K:3946:PHE:CA	2.85	0.59
2:D:1451:ALA:N	1:K:3942:MET:HG3	2.16	0.59
1:G:2474:LEU:O	1:G:2475:GLY:C	2.46	0.59
1:H:2958:LYS:CB	1:K:4172:GLY:HA2	2.32	0.59
1:J:3545:ARG:HG3	1:J:3545:ARG:HH11	1.65	0.59
1:L:4382:ILE:CG1	1:L:4394:ALA:HB3	2.32	0.59
1:M:4970:LEU:HD21	1:M:4994:LEU:HD12	1.84	0.59
1:M:5036:GLY:HA2	1:M:5067:VAL:O	2.01	0.59
1:B:664:LEU:HD21	1:B:688:LEU:HD12	1.84	0.59
2:D:1333:PHE:O	1:G:2364:GLN:NE2	2.36	0.59
2:D:1367:GLY:N	1:F:1968:GLN:O	2.35	0.59
2:D:1462:SER:OG	1:K:3943:PRO:HD2	1.98	0.59
2:D:1505:LYS:CE	1:J:3552:GLN:OE1	2.50	0.59
1:E:1893:GLY:HA3	1:E:1919:ASN:CB	2.27	0.59
1:F:2006:ILE:CG1	1:F:2018:ALA:HB3	2.32	0.59
1:F:2228:ARG:HB3	1:I:3397:LEU:CG	2.22	0.59
1:M:4778:ILE:CG1	1:M:4790:ALA:HB3	2.32	0.59
1:A:76:ILE:CG1	1:A:88:ALA:HB3	2.32	0.59
1:A:301:LYS:CE	1:L:4602:LEU:H	2.12	0.59
1:B:398:MET:HE1	1:C:963:ASN:CB	2.28	0.59
1:B:630:ALA:C	1:J:3749:MET:C	2.61	0.59
1:C:1035:ALA:O	1:E:1835:LYS:HE2	2.02	0.59
2:D:1392:ASP:N	1:F:1961:ARG:NH1	2.51	0.59
2:D:1433:THR:OG1	1:M:4739:GLN:C	2.45	0.59
2:D:1446:ASN:HB3	1:K:3949:PHE:CE2	2.38	0.59
1:E:1802:LEU:HD21	1:E:1826:LEU:HD12	1.84	0.59
1:F:2150:LEU:HG	1:I:3415:LEU:CG	2.32	0.59
1:F:2157:LEU:HD13	1:I:3366:VAL:N	2.16	0.59
1:F:2224:LEU:CD2	1:I:3414:LEU:HB2	2.32	0.59
1:F:2228:ARG:NH2	1:I:3399:ALA:H	2.00	0.59
1:G:2685:GLY:HA3	1:G:2711:ASN:CB	2.27	0.59
1:L:4609:VAL:HG12	1:L:4610:ASN:N	2.18	0.59
1:M:4924:ILE:HD12	1:M:4925:MET:CA	2.31	0.59
1:M:5011:LEU:HD13	1:M:5012:GLN:N	2.16	0.59
1:A:31:ARG:NH2	2:D:1459:LEU:HA	2.14	0.59
2:D:1226:LEU:HB3	1:I:3151:PRO:N	1.62	0.59
2:D:1363:GLN:NE2	1:H:2756:ARG:O	2.34	0.59
1:F:2152:ILE:HG23	1:I:3415:LEU:O	1.95	0.59
1:F:2185:ALA:HB2	1:I:3357:ALA:HA	1.77	0.59
1:G:2357:ARG:HG3	1:G:2357:ARG:HH11	1.65	0.59
1:G:2402:ILE:CG1	1:G:2414:ALA:HB3	2.32	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:2594:LEU:HD21	1:G:2618:LEU:HD12	1.84	0.59
1:G:2615:GLY:HA2	1:G:2632:ASN:HD21	1.66	0.59
1:G:2623:LEU:CB	1:M:5001:ASP:OD1	2.50	0.59
1:H:2990:LEU:HD21	1:H:3014:LEU:HD12	1.84	0.59
1:H:3031:LEU:HD13	1:H:3032:GLN:N	2.16	0.59
2:D:1464:ALA:C	1:K:3944:ARG:NH1	2.46	0.59
1:F:2233:VAL:HG12	1:F:2234:ASN:N	2.18	0.59
1:I:3407:GLY:HA2	1:I:3424:ASN:HD21	1.66	0.59
1:I:3452:GLY:HA2	1:I:3483:VAL:O	2.01	0.59
1:K:4213:VAL:HG12	1:K:4214:ASN:N	2.18	0.59
1:F:2202:PRO:CA	1:I:3376:GLY:HA2	2.29	0.59
1:H:3023:LYS:CG	1:K:4209:ASP:O	2.50	0.59
1:J:3803:GLY:HA2	1:J:3820:ASN:HD21	1.66	0.59
1:J:3848:GLY:HA2	1:J:3879:VAL:O	2.01	0.59
1:K:4199:GLY:HA2	1:K:4216:ASN:HD21	1.66	0.59
1:M:4850:LEU:O	1:M:4851:GLY:C	2.46	0.59
1:A:309:LEU:HD13	1:A:310:GLN:N	2.16	0.59
1:C:940:LEU:O	1:C:941:GLY:C	2.46	0.59
1:C:1031:ALA:C	1:E:1793:ILE:HA	2.27	0.59
2:D:1211:PHE:N	1:J:3554:PHE:HD1	2.00	0.59
1:A:298:ARG:CA	1:L:4569:ASP:CB	2.80	0.59
1:B:699:VAL:HG12	1:B:700:ASN:N	2.18	0.59
1:C:1029:VAL:HG22	1:E:1795:ALA:C	2.28	0.59
1:F:2289:GLY:HA3	1:F:2315:ASN:CB	2.27	0.59
1:G:2629:VAL:HG12	1:G:2630:ASN:N	2.18	0.59
1:J:3782:LEU:HD21	1:J:3806:LEU:HD12	1.84	0.59
1:A:294:LEU:HD12	1:A:294:LEU:N	2.18	0.59
1:C:1095:VAL:HG12	1:C:1096:ASN:N	2.18	0.59
2:D:1363:GLN:CD	1:H:2755:PRO:HB3	2.24	0.59
1:E:1922:ARG:HG3	1:E:1922:ARG:HH11	1.68	0.59
1:G:2714:ARG:HH11	1:G:2714:ARG:HG3	1.68	0.59
1:H:2870:LEU:O	1:H:2871:GLY:C	2.46	0.59
1:K:3986:ILE:CG1	1:K:3998:ALA:HB3	2.32	0.59
1:C:1012:LEU:HD21	1:C:1086:LEU:HD21	1.85	0.58
2:D:1404:ASP:OD2	1:F:1960:PRO:O	2.20	0.58
1:F:2167:VAL:HG12	1:I:3342:GLY:N	2.14	0.58
1:I:3421:VAL:HG12	1:I:3422:ASN:N	2.18	0.58
1:I:3475:ILE:HG12	1:I:3504:ILE:HG22	1.85	0.58
1:I:3479:ASN:OD1	1:I:3501:ALA:N	2.25	0.58
1:A:298:ARG:N	1:L:4607:LYS:HG2	2.18	0.58
1:B:544:LEU:O	1:B:545:GLY:C	2.46	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1086:LEU:HD12	1:C:1086:LEU:N	2.18	0.58
1:C:1090:ARG:HH11	1:E:1800:THR:CB	2.09	0.58
1:F:2189:ILE:CG1	1:F:2226:LEU:HD11	2.27	0.58
1:F:2287:ILE:HG12	1:F:2316:ILE:HG22	1.86	0.58
1:G:2562:LYS:HA	1:M:4937:MET:CE	2.25	0.58
1:G:2681:ASP:OD2	1:G:2714:ARG:HD3	2.04	0.58
1:J:3902:ARG:HH11	1:J:3902:ARG:HG3	1.68	0.58
1:K:4298:ARG:HG3	1:K:4298:ARG:HH11	1.68	0.58
1:L:4610:ASN:O	1:L:4611:VAL:CG1	2.51	0.58
1:A:268:LEU:HD21	1:A:292:LEU:HD12	1.84	0.58
2:D:1289:THR:HA	1:K:3947:GLN:HE22	1.68	0.58
2:D:1289:THR:CB	1:K:3947:GLN:OE1	2.51	0.58
1:E:1838:ASN:O	1:E:1839:VAL:CG1	2.51	0.58
1:F:2168:ASP:C	1:I:3339:GLY:O	2.46	0.58
1:J:3662:LEU:O	1:J:3663:GLY:C	2.46	0.58
1:J:3734:LEU:HD21	1:J:3808:LEU:HD21	1.85	0.58
1:J:3808:LEU:HD12	1:J:3808:LEU:N	2.18	0.58
1:J:3871:ILE:HG12	1:J:3900:ILE:HG22	1.85	0.58
1:K:4130:LEU:HD21	1:K:4204:LEU:HD21	1.85	0.58
1:B:690:LEU:HD12	1:B:690:LEU:N	2.18	0.58
1:C:1028:LYS:HD3	1:E:1757:MET:N	2.18	0.58
2:D:1214:ASN:H	1:J:3548:ARG:HD3	1.69	0.58
2:D:1241:TYR:O	1:E:1574:PHE:HA	2.04	0.58
2:D:1363:GLN:NE2	1:H:2756:ARG:N	2.48	0.58
2:D:1470:GLY:CA	1:M:4738:PHE:HB2	2.05	0.58
1:E:1610:ILE:CG1	1:E:1622:ALA:HB3	2.32	0.58
1:E:1754:LEU:HD21	1:E:1828:LEU:HD21	1.85	0.58
1:F:2186:LYS:C	1:F:2186:LYS:HD3	2.29	0.58
1:F:2190:LYS:C	1:I:3382:VAL:HG13	2.27	0.58
1:G:2561:MET:CA	1:M:4937:MET:H	2.17	0.58
1:H:3023:LYS:HE2	1:K:4210:GLY:C	2.27	0.58
1:I:3473:ASP:OD2	1:I:3506:ARG:HD3	2.04	0.58
1:L:4526:LEU:HD21	1:L:4600:LEU:HD21	1.85	0.58
1:L:4663:ILE:HG12	1:L:4692:ILE:HG22	1.86	0.58
1:M:5090:ARG:HH11	1:M:5090:ARG:HG3	1.68	0.58
1:A:148:LEU:O	1:A:149:GLY:C	2.46	0.58
1:A:220:LEU:HD21	1:A:294:LEU:HD21	1.85	0.58
1:A:260:LYS:HB2	1:L:4603:LEU:HD21	1.85	0.58
1:A:303:VAL:HG12	1:A:304:ASN:N	2.18	0.58
1:B:652:LYS:HD3	1:B:652:LYS:C	2.29	0.58
1:C:1030:ASP:N	1:E:1830:LEU:HD13	2.17	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1036:PHE:CZ	1:E:1797:ASP:HA	2.39	0.58
2:D:1465:TYR:HA	1:K:3950:PHE:HB3	1.84	0.58
1:G:2563:VAL:O	1:M:4937:MET:SD	2.62	0.58
1:H:3025:VAL:HG12	1:H:3026:ASN:N	2.18	0.58
1:J:3590:ILE:CG1	1:J:3602:ALA:HB3	2.32	0.58
1:A:357:ILE:HG12	1:A:386:ILE:HG22	1.86	0.58
1:B:616:LEU:HD21	1:B:690:LEU:HD21	1.85	0.58
1:C:973:THR:OG1	1:C:974:ALA:N	2.36	0.58
1:F:2213:VAL:HG21	1:I:3416:ARG:CZ	2.28	0.58
1:F:2228:ARG:NH2	1:I:3399:ALA:N	2.52	0.58
1:G:2507:THR:OG1	1:G:2508:ALA:N	2.36	0.58
1:G:2683:ILE:HG12	1:G:2712:ILE:HG22	1.85	0.58
1:H:3110:ARG:HH11	1:H:3110:ARG:HG3	1.68	0.58
1:K:4166:LYS:HD3	1:K:4166:LYS:C	2.29	0.58
1:M:4996:LEU:HD12	1:M:4996:LEU:N	2.18	0.58
1:A:238:ASP:HB2	1:L:4566:LYS:N	1.70	0.58
1:B:751:ASP:OD2	1:B:784:ARG:HD3	2.04	0.58
1:C:1107:ASN:O	1:C:1117:GLU:HA	2.04	0.58
2:D:1389:LYS:NZ	1:F:1961:ARG:HG2	2.19	0.58
1:E:1790:LYS:HD3	1:E:1790:LYS:C	2.29	0.58
1:E:1849:ASN:O	1:E:1859:GLU:HA	2.04	0.58
1:F:2153:MET:HE1	1:I:3354:LYS:HB3	1.84	0.58
1:F:2176:SER:CB	1:I:3350:ALA:HA	2.34	0.58
1:F:2198:LEU:HD21	1:F:2222:LEU:HD12	1.84	0.58
1:F:2227:LEU:CD2	1:I:3338:LEU:C	2.76	0.58
1:G:2624:ARG:NE	1:M:4941:ALA:CB	2.60	0.58
1:I:3338:LEU:HD21	1:I:3412:LEU:HD21	1.85	0.58
1:K:4204:LEU:HD12	1:K:4204:LEU:N	2.18	0.58
1:A:315:ASN:O	1:A:325:GLU:HA	2.04	0.58
1:A:388:ARG:HH11	1:A:388:ARG:HG3	1.68	0.58
1:B:435:PHE:CE1	2:D:1189:ALA:O	2.57	0.58
1:C:1023:LEU:HD21	1:E:1766:ALA:CA	2.34	0.58
1:C:1028:LYS:NZ	1:E:1781:GLN:O	2.36	0.58
1:C:1090:ARG:CB	1:E:1836:GLN:NE2	2.67	0.58
2:D:1382:GLY:O	1:L:4345:PHE:N	2.37	0.58
1:F:2193:ASP:HA	1:I:3340:ILE:HD13	1.84	0.58
1:F:2228:ARG:CB	1:I:3397:LEU:HB3	2.34	0.58
1:F:2230:GLY:HA2	1:I:3338:LEU:CB	2.32	0.58
1:F:2233:VAL:O	1:I:3420:GLN:NE2	2.35	0.58
1:H:2798:ILE:CG1	1:H:2810:ALA:HB3	2.32	0.58
1:H:2956:ALA:CB	1:K:4141:LEU:O	2.45	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:3026:ASN:O	1:H:3027:VAL:CG1	2.51	0.58
1:I:3477:GLY:HA3	1:I:3503:ASN:CB	2.27	0.58
1:L:4454:LEU:O	1:L:4455:GLY:C	2.46	0.58
1:L:4694:ARG:HH11	1:L:4694:ARG:HG3	1.68	0.58
1:M:4834:ASN:HD21	1:M:4837:GLY:N	2.02	0.58
1:A:29:THR:HG23	2:D:1494:PHE:HZ	1.54	0.58
1:A:355:ASP:OD2	1:A:388:ARG:HD3	2.03	0.58
1:B:784:ARG:HG3	1:B:784:ARG:HH11	1.68	0.58
1:C:924:ASN:HD21	1:C:927:GLY:N	2.02	0.58
1:C:1023:LEU:HG	1:E:1769:MET:HB2	1.84	0.58
1:C:1048:LYS:HD3	1:C:1048:LYS:C	2.29	0.58
1:C:1056:VAL:HA	1:E:1832:ARG:CB	2.33	0.58
2:D:1400:ILE:HD13	1:M:4734:MET:HG3	1.85	0.58
2:D:1409:TYR:CE2	1:M:4741:PHE:CE1	2.92	0.58
1:F:2062:ASN:HD21	1:F:2065:GLY:N	2.02	0.58
1:F:2172:GLY:HA3	1:I:3377:ILE:O	2.03	0.58
1:F:2285:ASP:OD2	1:F:2318:ARG:HD3	2.03	0.58
1:G:2458:ASN:HD21	1:G:2461:GLY:N	2.02	0.58
1:G:2630:ASN:O	1:G:2631:VAL:CG1	2.51	0.58
1:I:3250:ASN:HD21	1:I:3253:GLY:N	2.02	0.58
1:J:3817:VAL:HG12	1:J:3818:ASN:N	2.18	0.58
1:K:4265:ASP:OD2	1:K:4298:ARG:HD3	2.04	0.58
1:L:4308:MET:HE1	1:M:4873:ASN:CB	2.28	0.58
1:A:181:THR:OG1	1:A:182:ALA:N	2.36	0.58
1:B:528:ASN:HD21	1:B:531:GLY:N	2.02	0.58
1:B:631:MET:CB	1:J:3752:ASP:OD1	2.52	0.58
1:C:874:ASP:OD2	1:C:876:ARG:HD3	2.04	0.58
2:D:1247:GLN:HG2	1:I:3154:PHE:H	1.68	0.58
2:D:1477:TYR:CE2	1:M:4734:MET:HG2	2.39	0.58
2:D:1482:ILE:CG1	1:M:4738:PHE:HD2	2.17	0.58
1:E:1616:ASP:OD2	1:E:1618:ARG:HD3	2.04	0.58
1:E:1682:LEU:O	1:E:1683:GLY:C	2.46	0.58
1:F:2078:LEU:O	1:F:2079:GLY:C	2.46	0.58
1:F:2179:LEU:H	1:I:3355:VAL:C	2.03	0.58
1:F:2228:ARG:NE	1:I:3397:LEU:N	2.45	0.58
1:G:2546:LEU:HD21	1:G:2620:LEU:HD21	1.85	0.58
1:G:2641:ASN:O	1:G:2651:GLU:HA	2.04	0.58
1:H:2903:THR:OG1	1:H:2904:ALA:N	2.36	0.58
1:L:4661:ASP:OD2	1:L:4694:ARG:HD3	2.04	0.58
1:M:5006:ASN:O	1:M:5007:VAL:CG1	2.51	0.58
1:B:700:ASN:O	1:B:701:VAL:CG1	2.51	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:1358:ARG:CB	1:H:2758:PHE:CE2	2.63	0.57
2:D:1361:LEU:HB2	1:H:2757:ASN:O	2.04	0.57
2:D:1466:LEU:H	1:K:3950:PHE:CA	2.07	0.57
1:F:2006:ILE:HG13	1:F:2006:ILE:O	2.04	0.57
1:F:2196:THR:OG1	1:I:3377:ILE:CD1	2.52	0.57
1:H:2942:LEU:HD21	1:H:3016:LEU:HD21	1.85	0.57
1:H:3020:ARG:HG2	1:K:4208:ARG:H	1.69	0.57
1:L:4562:LYS:HD3	1:L:4562:LYS:C	2.29	0.57
1:M:4784:ASP:OD2	1:M:4786:ARG:HD3	2.04	0.57
1:M:4922:LEU:HD21	1:M:4996:LEU:HD21	1.85	0.57
1:B:753:ILE:HG12	1:B:782:ILE:HG22	1.86	0.57
2:D:1277:ASP:HB3	1:E:1573:PHE:CE1	2.37	0.57
2:D:1391:THR:C	1:F:1961:ARG:NH1	2.63	0.57
1:E:1837:VAL:HG12	1:E:1838:ASN:N	2.18	0.57
1:E:1889:ASP:OD2	1:E:1922:ARG:HD3	2.04	0.57
1:F:2318:ARG:HH11	1:F:2318:ARG:HG3	1.68	0.57
1:G:2408:ASP:OD2	1:G:2410:ARG:HD3	2.04	0.57
1:G:2558:ALA:HA	1:M:4937:MET:C	2.28	0.57
1:G:2561:MET:HE3	1:M:4938:LYS:CD	2.35	0.57
1:H:3023:LYS:HE2	1:K:4210:GLY:O	2.04	0.57
1:H:3037:ASN:O	1:H:3047:GLU:HA	2.04	0.57
1:H:3077:ASP:OD2	1:H:3110:ARG:HD3	2.04	0.57
1:I:3266:LEU:O	1:I:3267:GLY:C	2.46	0.57
1:I:3386:LEU:HD21	1:I:3410:LEU:HD12	1.84	0.57
1:J:3695:THR:OG1	1:J:3696:ALA:N	2.36	0.57
1:K:4058:LEU:O	1:K:4059:GLY:C	2.46	0.57
1:L:4574:LEU:HD21	1:L:4598:LEU:HD12	1.84	0.57
1:M:4958:LYS:HD3	1:M:4958:LYS:C	2.29	0.57
1:M:5017:ASN:O	1:M:5027:GLU:HA	2.04	0.57
1:A:132:ASN:HD21	1:A:135:GLY:N	2.02	0.57
1:B:631:MET:HB3	1:J:3752:ASP:N	2.18	0.57
1:B:751:ASP:HA	1:B:784:ARG:CB	2.34	0.57
1:C:1096:ASN:O	1:C:1097:VAL:CG1	2.51	0.57
1:E:1889:ASP:HA	1:E:1922:ARG:CB	2.35	0.57
1:F:2111:THR:OG1	1:F:2112:ALA:N	2.36	0.57
1:G:2563:VAL:C	1:M:4937:MET:SD	2.87	0.57
1:H:3077:ASP:HA	1:H:3110:ARG:CB	2.35	0.57
1:J:3818:ASN:O	1:J:3819:VAL:CG1	2.51	0.57
1:A:304:ASN:O	1:A:305:VAL:CG1	2.51	0.57
1:A:355:ASP:HA	1:A:388:ARG:CB	2.34	0.57
1:B:430:ARG:NH2	2:D:1192:TYR:CZ	2.58	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:577:THR:OG1	1:B:578:ALA:N	2.36	0.57
1:B:711:ASN:O	1:B:721:GLU:HA	2.04	0.57
2:D:1246:TYR:HD2	1:I:3152:ARG:CA	2.04	0.57
2:D:1320:ARG:HG3	1:G:2363:GLN:CG	2.34	0.57
2:D:1391:THR:CA	1:F:1961:ARG:NH1	2.67	0.57
2:D:1409:TYR:HB3	1:L:4342:PHE:O	2.01	0.57
1:E:1705:ASN:CB	1:G:2328:MET:HE1	2.28	0.57
1:G:2582:LYS:C	1:G:2582:LYS:HD3	2.29	0.57
1:H:2953:LEU:HD23	1:K:4144:ALA:C	2.29	0.57
1:I:3374:LYS:C	1:I:3374:LYS:HD3	2.29	0.57
1:J:3596:ASP:OD2	1:J:3598:ARG:HD3	2.04	0.57
1:J:3829:ASN:O	1:J:3839:GLU:HA	2.04	0.57
1:K:4042:ASN:HD21	1:K:4045:GLY:N	2.02	0.57
1:K:4214:ASN:C	1:K:4215:VAL:HG13	2.29	0.57
1:K:4225:ASN:O	1:K:4235:GLU:HA	2.04	0.57
1:C:1057:ILE:HD13	1:E:1833:ASP:CG	2.18	0.57
1:C:1096:ASN:C	1:C:1097:VAL:HG13	2.30	0.57
2:D:1275:SER:C	1:G:2363:GLN:CG	2.77	0.57
2:D:1367:GLY:C	1:F:1968:GLN:HB3	2.29	0.57
1:E:1682:LEU:O	1:E:1684:ARG:N	2.38	0.57
1:F:2150:LEU:HD21	1:F:2224:LEU:HD21	1.85	0.57
1:F:2151:GLY:HA3	1:I:3356:ASP:HB3	1.83	0.57
1:F:2185:ALA:HB1	1:I:3359:ARG:HG3	1.86	0.57
1:F:2232:GLN:C	1:I:3385:SER:O	2.48	0.57
1:H:2798:ILE:HG13	1:H:2798:ILE:O	2.04	0.57
1:H:2818:ARG:HG3	1:H:2939:ARG:HH11	1.70	0.57
1:H:2854:ASN:HD21	1:H:2857:GLY:N	2.02	0.57
1:H:3026:ASN:C	1:H:3027:VAL:HG13	2.30	0.57
1:I:3433:ASN:O	1:I:3443:GLU:HA	2.04	0.57
1:J:3818:ASN:C	1:J:3819:VAL:HG13	2.30	0.57
1:K:4058:LEU:O	1:K:4060:ARG:N	2.38	0.57
1:K:4265:ASP:HA	1:K:4298:ARG:CB	2.35	0.57
1:M:4850:LEU:O	1:M:4852:ARG:N	2.38	0.57
1:M:5006:ASN:C	1:M:5007:VAL:HG13	2.30	0.57
1:M:5059:ILE:HG12	1:M:5088:ILE:HG22	1.86	0.57
1:A:256:LYS:C	1:A:256:LYS:HD3	2.29	0.57
1:C:1091:ASP:HA	1:E:1828:LEU:C	2.29	0.57
1:C:1147:ASP:OD2	1:C:1180:ARG:HD3	2.04	0.57
2:D:1340:LYS:N	1:F:1970:PHE:CD2	2.71	0.57
2:D:1367:GLY:O	1:F:1966:PHE:C	2.46	0.57
2:D:1408:THR:OG1	1:L:4343:GLN:NE2	2.37	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:2012:ASP:OD2	1:F:2014:ARG:HD3	2.04	0.57
1:F:2078:LEU:O	1:F:2080:ARG:N	2.38	0.57
1:F:2224:LEU:CD2	1:I:3419:LYS:CG	2.74	0.57
1:G:2402:ILE:HG13	1:G:2402:ILE:O	2.04	0.57
1:H:2978:LYS:C	1:H:2978:LYS:HD3	2.29	0.57
1:H:3016:LEU:HD12	1:H:3016:LEU:N	2.18	0.57
1:I:3422:ASN:O	1:I:3423:VAL:CG1	2.51	0.57
1:J:3646:ASN:HD21	1:J:3649:GLY:N	2.02	0.57
1:L:4382:ILE:HG13	1:L:4382:ILE:O	2.04	0.57
1:L:4454:LEU:O	1:L:4456:ARG:N	2.38	0.57
1:L:4487:THR:OG1	1:L:4488:ALA:N	2.36	0.57
1:A:148:LEU:O	1:A:150:ARG:N	2.38	0.57
1:B:544:LEU:O	1:B:546:ARG:N	2.38	0.57
1:C:1114:ILE:CG2	1:C:1115:PHE:H	2.05	0.57
2:D:1359:ASP:N	1:H:2758:PHE:CD2	2.59	0.57
2:D:1360:ALA:HB1	1:H:2755:PRO:O	2.05	0.57
1:E:1891:ILE:HG12	1:E:1920:ILE:HG22	1.86	0.57
1:F:2178:VAL:CG1	1:I:3359:ARG:H	2.03	0.57
1:F:2234:ASN:C	1:F:2235:VAL:HG13	2.30	0.57
1:H:3079:ILE:HG12	1:H:3108:ILE:HG22	1.86	0.57
1:I:3473:ASP:HA	1:I:3506:ARG:CB	2.34	0.57
1:J:3869:ASP:OD2	1:J:3902:ARG:HD3	2.04	0.57
1:K:4214:ASN:O	1:K:4215:VAL:CG1	2.51	0.57
1:L:4438:ASN:HD21	1:L:4441:GLY:N	2.02	0.57
1:L:4661:ASP:HA	1:L:4694:ARG:CB	2.35	0.57
1:M:5057:ASP:OD2	1:M:5090:ARG:HD3	2.04	0.57
1:A:82:ASP:OD2	1:A:84:ARG:HD3	2.04	0.57
1:A:344:THR:N	1:A:345:PRO:HD3	2.20	0.57
1:C:888:ARG:HG3	1:C:1009:ARG:HH11	1.70	0.57
1:C:1089:LEU:HD21	1:E:1837:VAL:N	2.20	0.57
2:D:1221:GLN:OE1	1:J:3553:PHE:O	2.20	0.57
2:D:1235:THR:CB	1:E:1764:GLU:CD	2.74	0.57
2:D:1366:ASP:CA	1:F:1964:ARG:HH21	2.17	0.57
1:F:2213:VAL:HG23	1:I:3416:ARG:NH2	2.13	0.57
1:F:2227:LEU:CD2	1:I:3340:ILE:HG13	2.34	0.57
1:F:2231:LYS:CB	1:I:3383:ILE:HG21	2.35	0.57
1:H:3021:ASP:HA	1:K:4211:LYS:CD	2.06	0.57
1:I:3506:ARG:HH11	1:I:3506:ARG:HG3	1.68	0.57
1:J:3662:LEU:O	1:J:3664:ARG:N	2.38	0.57
1:C:1036:PHE:CZ	1:E:1796:GLY:C	2.82	0.57
1:C:1084:LEU:HD23	1:C:1084:LEU:H	1.70	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1147:ASP:HA	1:C:1180:ARG:CB	2.35	0.57
2:D:1447:PHE:CZ	1:K:3946:PHE:CA	2.88	0.57
1:F:2196:THR:CG2	1:I:3372:ALA:CA	2.64	0.57
1:F:2227:LEU:HD11	1:I:3339:GLY:C	2.30	0.57
1:F:2245:ASN:O	1:F:2255:GLU:HA	2.04	0.57
1:F:2285:ASP:HA	1:F:2318:ARG:CB	2.34	0.57
1:G:2474:LEU:O	1:G:2476:ARG:N	2.38	0.57
1:G:2557:LEU:CG	1:M:4938:LYS:HZ2	2.18	0.57
1:H:3021:ASP:C	1:K:4210:GLY:O	2.43	0.57
1:K:4147:VAL:HG23	1:K:4150:GLN:CD	2.30	0.57
1:L:4621:ASN:O	1:L:4631:GLU:HA	2.04	0.57
1:M:5005:VAL:HG12	1:M:5006:ASN:N	2.18	0.57
1:A:96:ARG:HG3	1:A:217:ARG:HH11	1.70	0.57
1:C:1136:THR:N	1:C:1137:PRO:HD3	2.20	0.57
2:D:1211:PHE:HB2	1:J:3545:ARG:HH12	1.64	0.57
2:D:1389:LYS:HG3	1:F:1961:ARG:H	1.48	0.57
1:F:2234:ASN:O	1:F:2235:VAL:CG1	2.51	0.57
1:G:2563:VAL:HG23	1:G:2566:GLN:CD	2.30	0.57
1:G:2618:LEU:HD23	1:G:2618:LEU:H	1.70	0.57
1:G:2624:ARG:HB2	1:M:4999:LEU:CD2	1.25	0.57
1:H:2959:VAL:HG23	1:H:2962:GLN:CD	2.30	0.57
1:H:2960:ASP:O	1:K:4208:ARG:HD2	2.04	0.57
1:H:3019:LEU:CD2	1:K:4211:LYS:HE2	1.86	0.57
1:I:3200:ASP:OD2	1:I:3202:ARG:HD3	2.04	0.57
1:I:3410:LEU:HD23	1:I:3410:LEU:H	1.70	0.57
1:J:3770:LYS:C	1:J:3770:LYS:HD3	2.29	0.57
1:A:304:ASN:C	1:A:305:VAL:HG13	2.30	0.56
1:B:492:ARG:HG3	1:B:613:ARG:HH11	1.70	0.56
1:C:1034:GLY:O	1:E:1832:ARG:NE	2.38	0.56
2:D:1260:TRP:CE3	1:I:3153:ASN:O	2.58	0.56
2:D:1524:ASN:HB2	1:J:3545:ARG:CA	2.35	0.56
1:E:1536:MET:HE1	1:F:2101:ASN:CB	2.28	0.56
1:E:1666:ASN:HD21	1:E:1669:GLY:N	2.02	0.56
1:E:1838:ASN:C	1:E:1839:VAL:HG13	2.29	0.56
1:F:2230:GLY:O	1:I:3410:LEU:HG	2.05	0.56
1:G:2670:THR:N	1:G:2671:PRO:HD3	2.20	0.56
1:K:4267:ILE:HG12	1:K:4296:ILE:HG22	1.86	0.56
1:L:4529:MET:HE2	1:L:4555:LEU:CD1	2.33	0.56
1:L:4650:THR:N	1:L:4651:PRO:HD3	2.20	0.56
1:M:5046:THR:N	1:M:5047:PRO:HD3	2.20	0.56
1:M:5057:ASP:HA	1:M:5090:ARG:CB	2.34	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:300:GLY:H	1:L:4607:LYS:C	1.77	0.56
1:A:301:LYS:CG	1:L:4607:LYS:O	2.53	0.56
1:A:331:LYS:HD3	1:A:331:LYS:N	2.21	0.56
1:C:868:ILE:HG13	1:C:868:ILE:O	2.04	0.56
1:F:2200:GLY:CA	1:I:3421:VAL:HG13	2.34	0.56
1:H:2724:MET:HE1	1:I:3289:ASN:CB	2.28	0.56
1:I:3355:VAL:HG23	1:I:3358:GLN:CD	2.30	0.56
1:K:3992:ASP:OD2	1:K:3994:ARG:HD3	2.04	0.56
1:K:4254:THR:N	1:K:4255:PRO:HD3	2.20	0.56
1:L:4388:ASP:OD2	1:L:4390:ARG:HD3	2.04	0.56
1:M:4994:LEU:H	1:M:4994:LEU:HD23	1.70	0.56
1:B:631:MET:HB3	1:J:3752:ASP:OD1	2.04	0.56
1:B:633:VAL:HG23	1:B:636:GLN:CD	2.30	0.56
1:B:688:LEU:HD23	1:B:688:LEU:H	1.70	0.56
1:C:924:ASN:C	1:C:924:ASN:ND2	2.64	0.56
1:C:940:LEU:O	1:C:942:ARG:N	2.38	0.56
1:C:1027:MET:CE	1:E:1771:VAL:HB	2.35	0.56
1:C:1149:ILE:HG12	1:C:1178:ILE:HG22	1.85	0.56
1:C:1157:VAL:CG1	1:C:1163:LEU:HB2	2.36	0.56
1:C:1180:ARG:HH11	1:C:1180:ARG:HG3	1.68	0.56
2:D:1258:ASN:O	1:I:3154:PHE:CB	2.53	0.56
2:D:1389:LYS:CG	1:F:1961:ARG:C	2.63	0.56
2:D:1404:ASP:OD1	1:F:1961:ARG:CA	2.53	0.56
2:D:1441:ALA:O	1:M:4740:GLN:HB3	2.05	0.56
2:D:1482:ILE:HD11	1:M:4738:PHE:H	1.71	0.56
1:E:1610:ILE:HG13	1:E:1610:ILE:O	2.04	0.56
1:E:1630:ARG:HG3	1:E:1751:ARG:HH11	1.70	0.56
1:G:2422:ARG:HG3	1:G:2543:ARG:HH11	1.70	0.56
1:G:2630:ASN:C	1:G:2631:VAL:HG13	2.30	0.56
1:H:2804:ASP:OD2	1:H:2806:ARG:HD3	2.04	0.56
1:H:2870:LEU:O	1:H:2872:ARG:N	2.38	0.56
1:H:3066:THR:N	1:H:3067:PRO:HD3	2.20	0.56
1:I:3194:ILE:HG13	1:I:3194:ILE:O	2.04	0.56
1:I:3266:LEU:O	1:I:3268:ARG:N	2.38	0.56
1:I:3422:ASN:C	1:I:3423:VAL:HG13	2.30	0.56
1:I:3449:LYS:HD3	1:I:3449:LYS:N	2.20	0.56
1:J:3858:THR:N	1:J:3859:PRO:HD3	2.20	0.56
1:J:3869:ASP:HA	1:J:3902:ARG:CB	2.34	0.56
1:K:4241:LYS:HD3	1:K:4241:LYS:N	2.21	0.56
1:M:4798:ARG:HG3	1:M:4919:ARG:HH11	1.70	0.56
1:B:478:ASP:OD2	1:B:480:ARG:HD3	2.04	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:631:MET:C	1:J:3751:VAL:CA	2.69	0.56
1:B:740:THR:N	1:B:741:PRO:HD3	2.20	0.56
1:E:1715:THR:OG1	1:E:1716:ALA:N	2.36	0.56
1:F:2178:VAL:CG1	1:I:3358:GLN:HB3	2.30	0.56
1:I:3462:THR:N	1:I:3463:PRO:HD3	2.20	0.56
1:J:3751:VAL:HG23	1:J:3754:GLN:CD	2.30	0.56
1:K:4006:ARG:HG3	1:K:4127:ARG:HH11	1.70	0.56
1:M:4778:ILE:HG13	1:M:4778:ILE:O	2.04	0.56
1:M:4939:VAL:HG23	1:M:4942:GLN:CD	2.30	0.56
1:M:5033:LYS:HD3	1:M:5033:LYS:N	2.20	0.56
1:A:237:VAL:HG23	1:A:240:GLN:CD	2.30	0.56
1:A:365:VAL:CG1	1:A:371:LEU:HB2	2.36	0.56
1:C:1027:MET:HE3	1:E:1796:GLY:O	2.05	0.56
2:D:1451:ALA:O	1:K:3943:PRO:N	2.30	0.56
1:E:1771:VAL:HG23	1:E:1774:GLN:CD	2.30	0.56
1:F:2089:ALA:C	1:F:2090:ILE:HG13	2.31	0.56
1:F:2179:LEU:N	1:I:3358:GLN:HG3	2.17	0.56
1:F:2274:THR:N	1:F:2275:PRO:HD3	2.20	0.56
1:G:2681:ASP:HA	1:G:2714:ARG:CB	2.35	0.56
1:H:2960:ASP:CB	1:K:4208:ARG:CD	2.78	0.56
1:I:3277:ALA:C	1:I:3278:ILE:HG13	2.31	0.56
1:J:3879:VAL:CG1	1:J:3885:LEU:HB2	2.36	0.56
1:L:4543:VAL:HG23	1:L:4546:GLN:CD	2.30	0.56
1:A:292:LEU:HD23	1:A:292:LEU:H	1.70	0.56
1:B:619:MET:HE2	1:B:645:LEU:CD1	2.33	0.56
1:C:1052:LYS:C	1:E:1831:LEU:HD11	2.16	0.56
1:C:1056:VAL:O	1:E:1835:LYS:HA	2.04	0.56
1:E:1878:THR:N	1:E:1879:PRO:HD3	2.20	0.56
1:F:2168:ASP:C	1:I:3341:MET:HG3	1.94	0.56
1:F:2173:ALA:O	1:I:3378:LYS:O	2.12	0.56
1:F:2222:LEU:HD23	1:F:2222:LEU:H	1.70	0.56
1:G:2624:ARG:HE	1:M:4943:ARG:HH21	1.54	0.56
1:H:2958:LYS:HB3	1:K:4171:ALA:HB1	1.88	0.56
1:J:3590:ILE:HG13	1:J:3590:ILE:O	2.04	0.56
1:M:4703:GLN:CD	1:M:4703:GLN:N	2.64	0.56
1:A:31:ARG:CD	2:D:1491:THR:HG23	2.16	0.56
1:B:700:ASN:C	1:B:701:VAL:HG13	2.30	0.56
2:D:1469:LYS:CA	1:M:4738:PHE:CD1	2.89	0.56
1:E:1693:ALA:C	1:E:1694:ILE:HG13	2.31	0.56
1:F:2026:ARG:HG3	1:F:2147:ARG:HH11	1.70	0.56
1:F:2151:GLY:CA	1:I:3356:ASP:OD2	2.48	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:2224:LEU:CD2	1:I:3414:LEU:CB	2.84	0.56
1:J:3515:GLN:CD	1:J:3515:GLN:N	2.64	0.56
1:J:3845:LYS:HD3	1:J:3845:LYS:N	2.21	0.56
1:J:3875:ASN:OD1	1:J:3897:ALA:N	2.25	0.56
1:L:4610:ASN:C	1:L:4611:VAL:HG13	2.30	0.56
1:L:4665:GLY:HA3	1:L:4691:ASN:CB	2.27	0.56
1:M:5067:VAL:CG1	1:M:5073:LEU:HB2	2.36	0.56
1:A:238:ASP:HB3	1:L:4565:ILE:O	2.06	0.56
1:F:2224:LEU:HD12	1:F:2224:LEU:N	2.18	0.56
1:G:2691:VAL:CG1	1:G:2697:LEU:HB2	2.36	0.56
1:H:2723:GLN:N	1:H:2723:GLN:CD	2.64	0.56
1:H:3044:ILE:CG2	1:H:3045:PHE:N	2.67	0.56
1:H:3053:LYS:HD3	1:H:3053:LYS:N	2.20	0.56
1:K:3986:ILE:HG13	1:K:3986:ILE:O	2.04	0.56
1:K:4272:GLN:HG2	1:K:4273:GLN:N	2.21	0.56
1:A:159:ALA:C	1:A:160:ILE:HG13	2.31	0.56
1:C:793:GLN:CD	1:C:793:GLN:N	2.64	0.56
2:D:1240:GLY:O	1:E:1575:GLY:O	2.23	0.56
2:D:1244:TRP:CZ2	1:I:3149:ARG:C	2.82	0.56
2:D:1433:THR:H	1:M:4740:GLN:HE21	1.52	0.56
1:F:2213:VAL:HA	1:I:3419:LYS:NZ	2.17	0.56
1:G:2561:MET:HE3	1:M:4938:LYS:CB	2.36	0.56
1:H:2766:GLN:O	1:H:2767:GLN:OE1	2.24	0.56
1:H:2958:LYS:HE2	1:K:4171:ALA:HB3	1.88	0.56
1:J:3604:MET:HE1	1:J:3606:GLY:C	2.31	0.56
1:K:4202:LEU:HD23	1:K:4202:LEU:H	1.70	0.56
1:L:4396:MET:HE1	1:L:4398:GLY:C	2.31	0.56
1:C:1015:MET:HE2	1:C:1041:LEU:CD1	2.33	0.56
1:E:1828:LEU:HD12	1:E:1828:LEU:N	2.18	0.56
1:F:2020:MET:HE1	1:F:2022:GLY:C	2.31	0.56
1:F:2229:ASP:OD2	1:I:3398:ARG:C	2.48	0.56
1:F:2261:LYS:HD3	1:F:2261:LYS:N	2.21	0.56
1:G:2485:ALA:C	1:G:2486:ILE:HG13	2.31	0.56
1:G:2620:LEU:HD12	1:G:2620:LEU:N	2.18	0.56
1:J:3558:GLN:O	1:J:3559:GLN:OE1	2.24	0.56
1:J:3806:LEU:HD23	1:J:3806:LEU:H	1.70	0.56
1:K:4091:THR:OG1	1:K:4092:ALA:N	2.36	0.56
1:A:76:ILE:HG13	1:A:76:ILE:O	2.04	0.55
1:B:693:LEU:HG	1:J:3815:LYS:HZ3	1.71	0.55
1:B:757:ASN:OD1	1:B:779:ALA:N	2.25	0.55
1:C:1057:ILE:HD13	1:E:1833:ASP:HB2	0.67	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:1208:LEU:CD1	1:J:3555:GLY:O	2.54	0.55
2:D:1340:LYS:HG3	1:F:1970:PHE:HB2	1.88	0.55
2:D:1483:LEU:HB3	1:K:3949:PHE:CE1	2.41	0.55
1:G:2657:LYS:HD3	1:G:2657:LYS:N	2.20	0.55
1:H:2812:MET:HE1	1:H:2814:GLY:C	2.31	0.55
1:H:2881:ALA:C	1:H:2882:ILE:HG13	2.31	0.55
1:H:3099:SER:C	1:H:3101:PRO:HD3	2.31	0.55
1:I:3119:GLN:CD	1:I:3119:GLN:N	2.64	0.55
1:I:3299:THR:OG1	1:I:3300:ALA:N	2.36	0.55
1:J:3610:ARG:HG3	1:J:3731:ARG:HH11	1.70	0.55
1:M:4861:ALA:C	1:M:4862:ILE:HG13	2.31	0.55
1:M:4883:THR:OG1	1:M:4884:ALA:N	2.36	0.55
1:B:758:GLN:HG2	1:B:759:GLN:N	2.21	0.55
2:D:1213:ASP:H	1:J:3545:ARG:H	1.52	0.55
2:D:1247:GLN:NE2	1:I:3154:PHE:CE2	2.73	0.55
2:D:1258:ASN:O	1:I:3154:PHE:HB3	2.06	0.55
1:F:2204:SER:CA	1:I:3378:LYS:HG2	2.22	0.55
1:F:2295:VAL:CG1	1:F:2301:LEU:HB2	2.36	0.55
1:G:2327:GLN:CD	1:G:2327:GLN:N	2.64	0.55
1:G:2416:MET:HE1	1:G:2418:GLY:C	2.31	0.55
1:G:2625:ASP:O	1:M:5003:LYS:CB	2.53	0.55
1:I:3214:ARG:HG3	1:I:3335:ARG:HH11	1.70	0.55
1:I:3483:VAL:CG1	1:I:3489:LEU:HB2	2.36	0.55
1:J:3673:ALA:C	1:J:3674:ILE:HG13	2.31	0.55
1:K:4069:ALA:C	1:K:4070:ILE:HG13	2.31	0.55
1:L:4671:VAL:CG1	1:L:4677:LEU:HB2	2.36	0.55
1:L:4683:SER:C	1:L:4685:PRO:HD3	2.31	0.55
1:M:4792:MET:HE1	1:M:4794:GLY:C	2.31	0.55
1:A:301:LYS:HZ3	1:L:4601:GLY:C	1.97	0.55
1:B:472:ILE:HG13	1:B:472:ILE:O	2.04	0.55
2:D:1316:PHE:O	1:E:1571:GLN:HB2	2.05	0.55
2:D:1425:GLN:CB	1:L:4345:PHE:HZ	2.19	0.55
2:D:1448:GLU:CB	1:K:3945:ASN:OD1	2.53	0.55
1:E:1624:MET:HE1	1:E:1626:GLY:C	2.31	0.55
1:F:2155:THR:CB	1:I:3353:MET:SD	2.95	0.55
1:F:2185:ALA:CB	1:I:3359:ARG:HG3	2.13	0.55
1:G:2559:LYS:O	1:M:4933:LEU:HA	2.07	0.55
1:K:4287:SER:C	1:K:4289:PRO:HD3	2.31	0.55
1:L:4307:GLN:CD	1:L:4307:GLN:N	2.64	0.55
1:L:4350:GLN:O	1:L:4351:GLN:OE1	2.24	0.55
1:M:5079:SER:C	1:M:5081:PRO:HD3	2.31	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:440:GLN:O	1:B:441:GLN:OE1	2.24	0.55
1:B:486:MET:HE1	1:B:488:GLY:C	2.31	0.55
1:C:1028:LYS:HZ3	1:E:1757:MET:H	1.39	0.55
1:C:1037:VAL:O	1:E:1831:LEU:HD21	2.05	0.55
1:E:1911:SER:C	1:E:1913:PRO:HD3	2.31	0.55
1:F:2191:ALA:H	1:I:3345:LEU:CD2	2.18	0.55
1:G:2687:ASN:OD1	1:G:2709:ALA:N	2.25	0.55
1:H:3020:ARG:C	1:K:4211:LYS:CD	2.74	0.55
1:H:3084:GLN:HG2	1:H:3085:GLN:N	2.21	0.55
1:I:3120:MET:HE1	1:J:3685:ASN:CB	2.28	0.55
1:I:3162:GLN:O	1:I:3163:GLN:OE1	2.25	0.55
1:I:3480:GLN:HG2	1:I:3481:GLN:N	2.21	0.55
1:M:5024:ILE:CG2	1:M:5025:PHE:H	2.05	0.55
1:A:377:SER:C	1:A:379:PRO:HD3	2.31	0.55
2:D:1214:ASN:CG	1:J:3548:ARG:HB3	2.31	0.55
2:D:1309:MET:HG2	1:F:1968:GLN:HE21	1.69	0.55
2:D:1393:ALA:O	1:H:2753:ARG:C	2.49	0.55
1:E:1624:MET:HE1	1:E:1626:GLY:O	2.07	0.55
1:F:2153:MET:CB	1:I:3355:VAL:CA	2.59	0.55
1:F:2222:LEU:CD1	1:I:3419:LYS:CD	2.62	0.55
1:G:2370:GLN:O	1:G:2371:GLN:OE1	2.24	0.55
1:G:2592:THR:HG21	1:M:5000:ARG:NH2	2.22	0.55
1:J:3876:GLN:HG2	1:J:3877:GLN:N	2.21	0.55
1:L:4396:MET:HE1	1:L:4398:GLY:O	2.07	0.55
1:L:4668:GLN:HG2	1:L:4669:GLN:N	2.21	0.55
1:A:1:GLN:CD	1:A:1:GLN:N	2.64	0.55
1:B:773:SER:C	1:B:775:PRO:HD3	2.31	0.55
1:C:1036:PHE:C	1:E:1833:ASP:OD1	2.48	0.55
1:C:1056:VAL:HG13	1:E:1832:ARG:NE	2.21	0.55
2:D:1259:SER:HA	1:I:3154:PHE:CA	2.36	0.55
2:D:1280:ARG:N	1:E:1569:ASN:OD1	2.40	0.55
2:D:1394:GLN:HG3	1:H:2755:PRO:HB2	1.87	0.55
1:F:2230:GLY:H	1:I:3338:LEU:HD22	1.68	0.55
1:G:2686:ALA:CB	1:G:2691:VAL:HG23	2.37	0.55
1:I:3376:GLY:O	1:I:3377:ILE:HG13	1.99	0.55
1:L:4598:LEU:HD23	1:L:4598:LEU:H	1.70	0.55
1:L:4637:LYS:HD3	1:L:4637:LYS:N	2.20	0.55
1:A:360:ALA:CB	1:A:365:VAL:HG23	2.37	0.55
1:B:555:ALA:C	1:B:556:ILE:HG13	2.31	0.55
2:D:1336:GLN:HG2	1:F:1967:GLN:CB	2.21	0.55
2:D:1338:GLN:CG	1:F:1968:GLN:HG3	2.37	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:1407:GLU:C	1:M:4741:PHE:CZ	2.82	0.55
2:D:1431:ASN:ND2	1:M:4742:PHE:HB2	2.15	0.55
1:E:1826:LEU:HD23	1:E:1826:LEU:H	1.71	0.55
1:F:1974:GLN:O	1:F:1975:GLN:OE1	2.24	0.55
1:F:2182:SER:H	1:I:3357:ALA:HA	1.70	0.55
1:G:2703:SER:C	1:G:2705:PRO:HD3	2.31	0.55
1:H:2893:ASN:CB	1:J:3516:MET:HE1	2.28	0.55
1:L:4547:ARG:HG2	1:L:4547:ARG:HH11	1.72	0.55
1:M:5022:SER:O	1:M:5024:ILE:N	2.40	0.55
1:A:33:PRO:CA	2:D:1531:VAL:C	2.80	0.55
1:A:90:MET:HE1	1:A:92:GLY:O	2.07	0.55
1:A:236:LYS:HB2	1:L:4567:ALA:HB1	1.89	0.55
1:A:263:ASP:CB	1:L:4605:ASP:CG	2.79	0.55
1:B:761:VAL:CG1	1:B:767:LEU:HB2	2.36	0.55
1:C:1031:ALA:C	1:E:1793:ILE:CA	2.75	0.55
1:E:1899:VAL:CG1	1:E:1905:LEU:HB2	2.36	0.55
1:F:2215:THR:O	1:F:2216:MET:HG3	2.07	0.55
1:F:2230:GLY:C	1:I:3410:LEU:CD1	2.71	0.55
1:F:2291:ASN:OD1	1:F:2313:ALA:N	2.25	0.55
1:G:2688:GLN:HG2	1:G:2689:GLN:N	2.21	0.55
1:J:3604:MET:HE1	1:J:3606:GLY:O	2.07	0.55
1:K:3911:GLN:CD	1:K:3911:GLN:N	2.64	0.55
1:L:4666:ALA:CB	1:L:4671:VAL:HG23	2.37	0.55
1:M:5064:GLN:HG2	1:M:5065:GLN:N	2.21	0.55
1:A:44:GLN:O	1:A:45:GLN:OE1	2.24	0.55
1:B:706:GLN:OE1	1:B:708:SER:HB2	2.07	0.55
1:B:716:SER:O	1:B:718:ILE:N	2.40	0.55
1:C:1089:LEU:CB	1:E:1835:LYS:HB3	2.26	0.55
2:D:1338:GLN:HB2	1:F:1967:GLN:O	2.06	0.55
2:D:1482:ILE:CD1	1:M:4738:PHE:H	2.19	0.55
1:E:1535:GLN:CD	1:E:1535:GLN:N	2.64	0.55
1:F:2155:THR:CG2	1:I:3353:MET:SD	2.95	0.55
1:F:2189:ILE:HD11	1:I:3415:LEU:N	2.22	0.55
1:F:2292:GLN:HG2	1:F:2293:GLN:N	2.21	0.55
1:M:4792:MET:HE1	1:M:4794:GLY:O	2.07	0.55
1:B:637:ARG:HG2	1:B:637:ARG:HH11	1.72	0.55
1:C:1028:LYS:HZ1	1:E:1781:GLN:HG3	1.70	0.55
1:C:1169:SER:C	1:C:1171:PRO:HD3	2.31	0.55
1:E:1775:ARG:HG2	1:E:1775:ARG:HH11	1.72	0.55
1:E:1819:THR:C	1:E:1820:MET:HG3	2.32	0.55
1:F:1931:GLN:CD	1:F:1931:GLN:N	2.64	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:2224:LEU:HD23	1:I:3419:LYS:HB2	0.55	0.55
1:G:2557:LEU:HB2	1:M:4938:LYS:HD2	1.88	0.55
1:H:2812:MET:HE1	1:H:2814:GLY:O	2.07	0.55
1:H:2986:VAL:CG2	1:K:4208:ARG:HH12	2.15	0.55
1:H:3042:SER:O	1:H:3044:ILE:N	2.40	0.55
1:H:3087:VAL:CG1	1:H:3093:LEU:HB2	2.36	0.55
1:L:4465:ALA:C	1:L:4466:ILE:HG13	2.31	0.55
1:M:4746:GLN:O	1:M:4747:GLN:OE1	2.24	0.55
1:M:5062:ALA:CB	1:M:5067:VAL:HG23	2.37	0.55
1:C:1154:GLN:HG2	1:C:1155:GLN:N	2.21	0.54
2:D:1338:GLN:OE1	1:F:1968:GLN:CG	2.52	0.54
2:D:1443:LYS:HA	1:M:4740:GLN:C	2.32	0.54
1:E:1578:GLN:O	1:E:1579:GLN:OE1	2.24	0.54
1:F:1966:PHE:HE1	1:G:2365:PHE:CE2	2.25	0.54
1:F:2178:VAL:HG12	1:I:3345:LEU:HD22	1.87	0.54
1:F:2195:ILE:HD12	1:F:2195:ILE:N	2.22	0.54
1:F:2204:SER:OG	1:I:3378:LYS:CE	2.54	0.54
1:F:2232:GLN:NE2	1:I:3422:ASN:CA	2.64	0.54
1:G:2567:ARG:HG2	1:G:2567:ARG:HH11	1.72	0.54
1:G:2611:THR:C	1:G:2612:MET:HG3	2.32	0.54
1:H:2953:LEU:CD2	1:K:4145:MET:C	2.79	0.54
1:H:3014:LEU:HD23	1:H:3014:LEU:H	1.70	0.54
1:H:3110:ARG:HG3	1:H:3110:ARG:NH1	2.23	0.54
1:I:3208:MET:HE1	1:I:3210:GLY:O	2.07	0.54
1:I:3383:ILE:N	1:I:3383:ILE:HD12	2.22	0.54
1:I:3403:THR:O	1:I:3404:MET:HG3	2.07	0.54
1:I:3495:SER:C	1:I:3497:PRO:HD3	2.31	0.54
1:J:3755:ARG:HG2	1:J:3755:ARG:HH11	1.72	0.54
1:J:3799:THR:O	1:J:3800:MET:HG3	2.07	0.54
1:K:3954:GLN:O	1:K:3955:GLN:OE1	2.24	0.54
1:K:4151:ARG:HG2	1:K:4151:ARG:HH11	1.72	0.54
1:A:90:MET:HE1	1:A:92:GLY:C	2.31	0.54
1:B:661:ILE:N	1:B:661:ILE:HD12	2.22	0.54
1:B:681:THR:O	1:B:682:MET:HG3	2.07	0.54
1:C:1077:THR:O	1:C:1078:MET:HG3	2.07	0.54
2:D:1409:TYR:HB3	1:L:4342:PHE:CA	2.32	0.54
2:D:1447:PHE:CA	1:K:3947:GLN:HA	2.37	0.54
2:D:1523:ASP:HB3	1:J:3545:ARG:O	2.07	0.54
1:E:1922:ARG:HG3	1:E:1922:ARG:NH1	2.23	0.54
1:F:2185:ALA:HB1	1:I:3359:ARG:CG	2.37	0.54
1:F:2307:SER:C	1:F:2309:PRO:HD3	2.31	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:2318:ARG:HG3	1:F:2318:ARG:NH1	2.23	0.54
1:H:2985:ASP:HA	1:K:4209:ASP:CG	2.31	0.54
1:K:4000:MET:HE1	1:K:4002:GLY:C	2.31	0.54
1:K:4175:ILE:N	1:K:4175:ILE:HD12	2.23	0.54
1:L:4597:LYS:HG2	1:L:4612:ASN:HB2	1.90	0.54
1:L:4616:GLN:OE1	1:L:4618:SER:HB2	2.08	0.54
1:M:4943:ARG:HH11	1:M:4943:ARG:HG2	1.72	0.54
1:M:4987:THR:O	1:M:4988:MET:HG3	2.07	0.54
1:M:5090:ARG:HG3	1:M:5090:ARG:NH1	2.23	0.54
1:A:36:PHE:HE1	1:B:435:PHE:CE2	2.26	0.54
1:B:435:PHE:CD1	2:D:1199:LEU:O	2.61	0.54
1:B:687:LYS:HG2	1:B:702:ASN:HB2	1.90	0.54
1:C:1017:THR:O	1:E:1832:ARG:CZ	2.46	0.54
1:C:1112:SER:O	1:C:1114:ILE:N	2.40	0.54
2:D:1365:GLY:HA2	1:F:1970:PHE:CD1	2.42	0.54
1:E:1854:SER:O	1:E:1856:ILE:N	2.40	0.54
1:F:2153:MET:CA	1:I:3355:VAL:HA	2.37	0.54
1:F:2153:MET:CA	1:I:3355:VAL:HG12	2.37	0.54
1:F:2177:GLN:CG	1:I:3355:VAL:CG1	2.67	0.54
1:G:2646:SER:O	1:G:2648:ILE:N	2.40	0.54
1:H:2953:LEU:CB	1:K:4145:MET:C	2.80	0.54
1:H:3022:GLY:N	1:K:4210:GLY:O	2.40	0.54
1:H:3032:GLN:OE1	1:H:3034:SER:HB2	2.08	0.54
1:I:3438:SER:O	1:I:3440:ILE:N	2.40	0.54
1:I:3506:ARG:HG3	1:I:3506:ARG:NH1	2.23	0.54
1:J:3874:ALA:CB	1:J:3879:VAL:HG23	2.37	0.54
1:L:4626:SER:O	1:L:4628:ILE:N	2.40	0.54
1:B:397:GLN:N	1:B:397:GLN:CD	2.64	0.54
1:C:951:ALA:C	1:C:952:ILE:HG13	2.31	0.54
1:C:1033:ARG:HG2	1:C:1033:ARG:HH11	1.72	0.54
1:C:1056:VAL:O	1:E:1835:LYS:CA	2.44	0.54
1:C:1077:THR:C	1:C:1078:MET:HG3	2.32	0.54
1:C:1180:ARG:HG3	1:C:1180:ARG:NH1	2.23	0.54
2:D:1260:TRP:O	1:I:3153:ASN:HB2	2.04	0.54
2:D:1265:PHE:HA	1:E:1569:ASN:HB3	1.90	0.54
2:D:1433:THR:OG1	1:M:4739:GLN:O	2.26	0.54
2:D:1444:ALA:C	1:M:4739:GLN:HA	2.32	0.54
1:E:1819:THR:O	1:E:1820:MET:HG3	2.07	0.54
1:F:1932:MET:HE1	1:G:2497:ASN:CB	2.28	0.54
1:F:2221:LYS:HG2	1:F:2236:ASN:HB2	1.90	0.54
1:F:2227:LEU:CD1	1:I:3339:GLY:C	2.80	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:2416:MET:HE1	1:G:2418:GLY:O	2.07	0.54
1:H:2761:PHE:CE2	1:J:3550:PHE:HE1	2.25	0.54
1:H:2963:ARG:HG2	1:H:2963:ARG:HH11	1.72	0.54
1:H:3007:THR:C	1:H:3008:MET:HG3	2.33	0.54
1:I:3208:MET:HE1	1:I:3210:GLY:C	2.31	0.54
1:K:4270:ALA:CB	1:K:4275:VAL:HG23	2.37	0.54
1:L:4591:THR:O	1:L:4592:MET:HG3	2.07	0.54
1:L:4600:LEU:HD12	1:L:4600:LEU:N	2.18	0.54
1:B:434:GLN:HB2	2:D:1231:GLU:N	2.22	0.54
1:B:437:GLY:HA3	2:D:1191:VAL:O	2.07	0.54
1:B:634:ASP:OD2	1:J:3812:ARG:N	2.37	0.54
1:C:882:MET:HE1	1:C:884:GLY:C	2.31	0.54
1:C:1014:ILE:HD12	1:C:1014:ILE:C	2.33	0.54
2:D:1249:GLN:CG	1:I:3154:PHE:HB3	2.20	0.54
2:D:1275:SER:N	1:G:2361:ASN:OD1	2.41	0.54
2:D:1298:PHE:CE1	1:J:3552:GLN:CD	2.85	0.54
2:D:1366:ASP:CB	1:F:1964:ARG:NH2	2.64	0.54
1:F:2162:ALA:CA	1:I:3364:SER:OG	2.55	0.54
1:F:2240:GLN:OE1	1:F:2242:SER:HB2	2.08	0.54
1:H:2987:ILE:HD12	1:H:2987:ILE:N	2.23	0.54
1:H:3007:THR:O	1:H:3008:MET:HG3	2.07	0.54
1:I:3250:ASN:C	1:I:3250:ASN:ND2	2.64	0.54
1:I:3340:ILE:HD12	1:I:3340:ILE:C	2.33	0.54
1:I:3478:ALA:CB	1:I:3483:VAL:HG23	2.37	0.54
1:J:3834:SER:O	1:J:3836:ILE:N	2.40	0.54
1:K:4220:GLN:OE1	1:K:4222:SER:HB2	2.08	0.54
1:L:4571:ILE:N	1:L:4571:ILE:HD12	2.22	0.54
1:A:285:THR:C	1:A:286:MET:HG3	2.33	0.54
1:C:836:GLN:O	1:C:837:GLN:OE1	2.24	0.54
1:C:1093:LYS:CD	1:E:1836:GLN:NE2	2.43	0.54
1:C:1123:LYS:HD3	1:C:1123:LYS:N	2.20	0.54
2:D:1447:PHE:CA	1:K:3946:PHE:O	2.56	0.54
1:E:1865:LYS:HD3	1:E:1865:LYS:N	2.20	0.54
1:F:2171:ARG:CD	1:I:3366:VAL:CG2	2.86	0.54
1:F:2179:LEU:CD2	1:I:3355:VAL:O	2.56	0.54
1:F:2189:ILE:HG13	1:I:3384:THR:CA	2.36	0.54
1:F:2197:SER:HB3	1:I:3376:GLY:HA3	1.89	0.54
1:F:2215:THR:C	1:F:2216:MET:HG3	2.33	0.54
1:F:2225:GLY:N	1:I:3421:VAL:N	2.55	0.54
1:G:2611:THR:O	1:G:2612:MET:HG3	2.07	0.54
1:I:3154:PHE:HE1	1:J:3553:PHE:CE2	2.26	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:3403:THR:C	1:I:3404:MET:HG3	2.33	0.54
1:J:3891:SER:C	1:J:3893:PRO:HD3	2.31	0.54
1:K:4275:VAL:CG1	1:K:4281:LEU:HB2	2.36	0.54
1:L:4438:ASN:C	1:L:4438:ASN:ND2	2.64	0.54
1:L:4694:ARG:HG3	1:L:4694:ARG:NH1	2.23	0.54
1:C:882:MET:HE1	1:C:884:GLY:O	2.07	0.54
1:C:919:THR:HG21	1:C:948:THR:OG1	2.08	0.54
2:D:1409:TYR:CB	1:L:4343:GLN:N	2.49	0.54
2:D:1462:SER:HB2	1:K:3943:PRO:HD3	1.86	0.54
1:F:2153:MET:HE2	1:F:2179:LEU:HD21	1.90	0.54
1:G:2557:LEU:CG	1:M:4938:LYS:NZ	2.68	0.54
1:G:2617:LYS:HG2	1:G:2632:ASN:HB2	1.90	0.54
1:I:3428:GLN:OE1	1:I:3430:SER:HB2	2.07	0.54
1:K:4000:MET:HE1	1:K:4002:GLY:O	2.07	0.54
1:K:4195:THR:O	1:K:4196:MET:HG3	2.07	0.54
1:L:4402:ARG:HG3	1:L:4523:ARG:HH11	1.70	0.54
1:M:4967:ILE:N	1:M:4967:ILE:HD12	2.23	0.54
1:A:241:ARG:HG2	1:A:241:ARG:HH11	1.72	0.54
1:B:632:LYS:HG3	1:J:3751:VAL:HG12	1.88	0.54
2:D:1320:ARG:CA	1:G:2363:GLN:HG3	2.35	0.54
2:D:1447:PHE:H	1:K:3949:PHE:HD2	1.54	0.54
1:E:1757:MET:HE2	1:E:1783:LEU:CD1	2.33	0.54
1:F:2184:ALA:HB3	1:I:3357:ALA:HB3	1.89	0.54
1:F:2193:ASP:HB2	1:I:3383:ILE:HD12	1.90	0.54
1:F:2290:ALA:CB	1:F:2295:VAL:HG23	2.37	0.54
1:A:39:PHE:CE2	1:C:828:PHE:HE1	2.25	0.54
1:A:222:ILE:HD12	1:A:222:ILE:C	2.33	0.54
1:B:430:ARG:CZ	2:D:1197:ASN:HB3	2.38	0.54
1:B:486:MET:HE1	1:B:488:GLY:O	2.07	0.54
1:C:1032:GLN:N	1:E:1793:ILE:N	2.50	0.54
2:D:1411:GLY:HA3	1:L:4345:PHE:CA	2.16	0.54
1:F:2150:LEU:CD1	1:I:3415:LEU:HA	2.29	0.54
1:F:2191:ALA:CB	1:I:3345:LEU:HA	2.36	0.54
1:F:2224:LEU:HD13	1:I:3414:LEU:O	1.54	0.54
1:F:2290:ALA:C	1:F:2292:GLN:H	2.16	0.54
1:G:2453:THR:HG21	1:G:2482:THR:OG1	2.08	0.54
1:J:3736:ILE:HD12	1:J:3736:ILE:C	2.33	0.54
1:J:3902:ARG:HG3	1:J:3902:ARG:NH1	2.23	0.54
1:K:3946:PHE:HE1	1:L:4345:PHE:CE2	2.26	0.54
1:K:4195:THR:C	1:K:4196:MET:HG3	2.33	0.54
1:M:4834:ASN:C	1:M:4834:ASN:ND2	2.64	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:4993:LYS:HG2	1:M:5008:ASN:HB2	1.90	0.54
1:M:5012:GLN:OE1	1:M:5014:SER:HB2	2.08	0.54
1:A:28:ASN:CB	2:D:1458:GLY:CA	2.76	0.54
1:A:265:ILE:HD12	1:A:265:ILE:N	2.23	0.54
1:A:298:ARG:N	1:L:4607:LYS:HB2	2.10	0.54
1:A:310:GLN:OE1	1:A:312:SER:HB2	2.08	0.54
1:A:362:GLN:HG2	1:A:363:GLN:N	2.21	0.54
1:B:432:PHE:HE1	1:C:831:PHE:CE2	2.25	0.54
1:B:756:ALA:C	1:B:758:GLN:H	2.16	0.54
1:B:756:ALA:CB	1:B:761:VAL:HG23	2.37	0.54
2:D:1386:SER:HB2	1:F:1965:ASN:ND2	2.22	0.54
1:E:1799:ILE:HD12	1:E:1799:ILE:N	2.23	0.54
1:F:2224:LEU:O	1:I:3414:LEU:N	2.41	0.54
1:H:2944:ILE:HD12	1:H:2944:ILE:C	2.33	0.54
1:H:2986:VAL:HB	1:K:4208:ARG:HH22	1.73	0.54
1:J:3805:LYS:HG2	1:J:3820:ASN:HB2	1.90	0.54
1:M:4829:THR:HG21	1:M:4858:THR:OG1	2.08	0.54
1:M:4925:MET:HE2	1:M:4951:LEU:CD1	2.33	0.54
1:A:127:THR:HG21	1:A:156:THR:OG1	2.08	0.53
1:B:784:ARG:HG3	1:B:784:ARG:NH1	2.23	0.53
1:C:1057:ILE:HD12	1:C:1057:ILE:N	2.23	0.53
2:D:1325:PHE:CD2	1:G:2357:ARG:CA	2.78	0.53
2:D:1469:LYS:CA	1:M:4738:PHE:CD2	2.90	0.53
1:F:2020:MET:HE1	1:F:2022:GLY:O	2.07	0.53
1:G:2458:ASN:C	1:G:2458:ASN:ND2	2.64	0.53
1:G:2591:ILE:HD12	1:G:2591:ILE:N	2.23	0.53
1:G:2686:ALA:C	1:G:2688:GLN:H	2.16	0.53
1:H:2889:GLY:O	1:H:2902:ASN:N	2.35	0.53
1:H:3023:LYS:CE	1:K:4210:GLY:CA	2.76	0.53
1:I:3241:VAL:O	1:I:3263:VAL:O	2.26	0.53
1:I:3245:THR:HG21	1:I:3274:THR:OG1	2.08	0.53
1:J:3641:THR:HG21	1:J:3670:THR:OG1	2.08	0.53
1:K:4132:ILE:HD12	1:K:4132:ILE:C	2.33	0.53
1:L:4342:PHE:HE1	1:M:4741:PHE:CE2	2.26	0.53
1:L:4429:VAL:O	1:L:4451:VAL:O	2.27	0.53
1:L:4529:MET:HE2	1:L:4555:LEU:HD21	1.90	0.53
1:L:4591:THR:C	1:L:4592:MET:HG3	2.32	0.53
1:M:4924:ILE:HD12	1:M:4924:ILE:C	2.33	0.53
1:A:263:ASP:N	1:L:4604:ARG:HA	2.18	0.53
1:A:285:THR:O	1:A:286:MET:HG3	2.07	0.53
1:A:320:SER:O	1:A:322:ILE:N	2.40	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:543:ALA:HB3	1:B:551:GLN:CB	2.38	0.53
1:B:681:THR:C	1:B:682:MET:HG3	2.33	0.53
1:B:727:LYS:HD3	1:B:727:LYS:N	2.21	0.53
1:C:1027:MET:N	1:E:1778:PHE:CE2	2.39	0.53
1:C:1034:GLY:O	1:E:1832:ARG:CZ	2.55	0.53
2:D:1322:THR:CG2	1:G:2361:ASN:HD22	2.01	0.53
2:D:1389:LYS:HE2	1:F:1960:PRO:C	2.28	0.53
2:D:1442:ASN:H	1:M:4736:ARG:HE	1.56	0.53
1:E:1896:GLN:HG2	1:E:1897:GLN:N	2.21	0.53
1:H:2845:VAL:O	1:H:2867:VAL:O	2.27	0.53
1:I:3478:ALA:C	1:I:3480:GLN:H	2.16	0.53
1:K:4133:MET:HE2	1:K:4159:LEU:CD1	2.33	0.53
1:A:291:LYS:HG2	1:A:306:ASN:HB2	1.90	0.53
1:B:618:ILE:HD12	1:B:618:ILE:C	2.33	0.53
1:B:619:MET:HE2	1:B:645:LEU:HD21	1.90	0.53
1:C:1102:GLN:OE1	1:C:1104:SER:HB2	2.08	0.53
2:D:1270:PHE:O	1:G:2360:ARG:O	2.27	0.53
2:D:1275:SER:CA	1:G:2362:PHE:CG	2.91	0.53
1:E:1661:THR:HG21	1:E:1690:THR:OG1	2.08	0.53
1:E:1825:LYS:HG2	1:E:1840:ASN:HB2	1.90	0.53
1:F:2053:VAL:O	1:F:2075:VAL:O	2.26	0.53
1:F:2250:SER:O	1:F:2252:ILE:N	2.40	0.53
1:G:2627:LYS:HE3	1:M:4999:LEU:HD11	1.83	0.53
1:G:2636:GLN:OE1	1:G:2638:SER:HB2	2.08	0.53
1:I:3409:LYS:HG2	1:I:3424:ASN:HB2	1.90	0.53
1:J:3637:VAL:O	1:J:3659:VAL:O	2.27	0.53
1:J:3737:MET:HE2	1:J:3763:LEU:CD1	2.33	0.53
1:K:4033:VAL:O	1:K:4055:VAL:O	2.26	0.53
1:C:915:VAL:O	1:C:937:VAL:O	2.26	0.53
1:C:939:ALA:HB3	1:C:947:GLN:CB	2.38	0.53
1:C:1055:ASP:HA	1:E:1830:LEU:C	2.31	0.53
2:D:1425:GLN:HB2	1:L:4345:PHE:CZ	2.40	0.53
1:E:1681:ALA:HB3	1:E:1689:GLN:CB	2.39	0.53
1:F:2077:ALA:HB3	1:F:2085:GLN:CB	2.38	0.53
1:F:2152:ILE:HG22	1:I:3415:LEU:HD22	1.89	0.53
1:F:2227:LEU:HG	1:I:3338:LEU:CB	2.38	0.53
1:K:3912:MET:HE1	1:L:4477:ASN:CB	2.28	0.53
1:K:4037:THR:HG21	1:K:4066:THR:OG1	2.08	0.53
1:K:4230:SER:O	1:K:4232:ILE:N	2.40	0.53
1:L:4528:ILE:HD12	1:L:4528:ILE:C	2.33	0.53
1:M:4825:VAL:O	1:M:4847:VAL:O	2.27	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:519:VAL:O	1:B:541:VAL:O	2.26	0.53
1:C:1034:GLY:C	1:E:1832:ARG:NE	2.64	0.53
1:C:1083:LYS:HG2	1:C:1098:ASN:HB2	1.90	0.53
1:C:1152:ALA:CB	1:C:1157:VAL:HG23	2.37	0.53
2:D:1404:ASP:OD1	1:F:1961:ARG:HA	2.08	0.53
1:E:1657:VAL:O	1:E:1679:VAL:O	2.26	0.53
1:E:1894:ALA:C	1:E:1896:GLN:H	2.16	0.53
1:F:2171:ARG:HH11	1:F:2171:ARG:HG2	1.72	0.53
1:J:3559:GLN:OE1	1:J:3559:GLN:HA	2.09	0.53
1:J:3646:ASN:C	1:J:3646:ASN:ND2	2.64	0.53
1:J:3874:ALA:C	1:J:3876:GLN:H	2.16	0.53
1:K:4057:ALA:HB3	1:K:4065:GLN:CB	2.39	0.53
1:K:4298:ARG:HG3	1:K:4298:ARG:NH1	2.23	0.53
1:B:436:PHE:CE2	2:D:1193:ASN:N	2.68	0.53
1:B:523:THR:HG21	1:B:552:THR:OG1	2.08	0.53
1:B:727:LYS:H	1:B:727:LYS:CD	2.19	0.53
1:C:1019:LEU:HD23	1:E:1832:ARG:CD	2.15	0.53
2:D:1221:GLN:OE1	1:J:3553:PHE:CG	2.60	0.53
2:D:1333:PHE:CE2	1:G:2364:GLN:OE1	2.61	0.53
2:D:1447:PHE:HA	1:K:3946:PHE:O	2.09	0.53
2:D:1484:LYS:HA	1:K:3949:PHE:O	2.08	0.53
1:E:1568:ARG:NE	1:E:1568:ARG:HA	2.24	0.53
1:F:2210:ARG:CB	1:I:3416:ARG:NH1	2.67	0.53
1:G:2548:ILE:HD12	1:G:2548:ILE:C	2.33	0.53
1:G:2622:LEU:N	1:M:5001:ASP:HB3	2.24	0.53
1:H:2849:THR:HG21	1:H:2878:THR:OG1	2.08	0.53
1:H:2986:VAL:CG2	1:K:4208:ARG:NH1	2.71	0.53
1:H:3082:ALA:CB	1:H:3087:VAL:HG23	2.37	0.53
1:I:3163:GLN:OE1	1:I:3163:GLN:HA	2.09	0.53
1:B:430:ARG:CA	2:D:1197:ASN:HB2	2.38	0.53
2:D:1409:TYR:HD1	1:L:4342:PHE:H	1.57	0.53
1:G:2562:LYS:O	1:M:4937:MET:HE3	2.05	0.53
1:H:2758:PHE:HE1	1:I:3157:PHE:CE2	2.26	0.53
1:H:2767:GLN:OE1	1:H:2767:GLN:HA	2.09	0.53
1:H:3013:LYS:HG2	1:H:3028:ASN:HB2	1.90	0.53
1:J:3824:GLN:OE1	1:J:3826:SER:HB2	2.08	0.53
1:A:360:ALA:C	1:A:362:GLN:H	2.16	0.53
1:B:434:GLN:HG2	2:D:1199:LEU:HB2	1.89	0.53
1:B:610:GLN:HG2	1:B:724:ASN:HD22	1.74	0.53
1:C:1089:LEU:HD21	1:E:1836:GLN:C	2.29	0.53
2:D:1221:GLN:HG3	1:J:3553:PHE:C	2.32	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1756:ILE:HD12	1:E:1756:ILE:C	2.33	0.53
1:E:1844:GLN:OE1	1:E:1846:SER:HB2	2.08	0.53
1:F:2057:THR:HG21	1:F:2086:THR:OG1	2.08	0.53
1:F:2191:ALA:HB1	1:I:3344:GLU:O	1.94	0.53
1:F:2227:LEU:CG	1:I:3338:LEU:HG	2.35	0.53
1:F:2231:LYS:NZ	1:I:3397:LEU:O	2.42	0.53
1:H:2939:ARG:HG3	1:H:3032:GLN:NE2	2.24	0.53
1:H:2960:ASP:C	1:K:4208:ARG:HD2	2.34	0.53
1:K:3955:GLN:OE1	1:K:3955:GLN:HA	2.09	0.53
1:L:4351:GLN:OE1	1:L:4351:GLN:HA	2.09	0.53
1:A:29:THR:C	2:D:1493:TYR:C	2.77	0.53
1:A:31:ARG:NH2	2:D:1491:THR:O	2.13	0.53
1:A:123:VAL:O	1:A:145:VAL:O	2.27	0.53
1:A:214:GLN:HG2	1:A:328:ASN:HD22	1.74	0.53
1:C:951:ALA:O	1:C:952:ILE:HG13	2.09	0.53
1:C:1017:THR:C	1:E:1832:ARG:NH1	2.57	0.53
1:C:1055:ASP:O	1:E:1832:ARG:CA	2.57	0.53
2:D:1372:ILE:HB	1:L:4344:GLN:OE1	2.09	0.53
2:D:1475:ARG:HG3	1:M:4734:MET:HB2	1.90	0.53
2:D:1505:LYS:NZ	1:J:3552:GLN:NE2	2.44	0.53
1:E:1894:ALA:CB	1:E:1899:VAL:HG23	2.37	0.53
1:F:2191:ALA:N	1:I:3345:LEU:HG	2.09	0.53
1:I:3478:ALA:C	1:I:3480:GLN:N	2.67	0.53
1:J:3661:ALA:HB3	1:J:3669:GLN:CB	2.38	0.53
1:J:3779:ILE:HD12	1:J:3779:ILE:N	2.23	0.53
1:M:4747:GLN:OE1	1:M:4747:GLN:HA	2.09	0.53
1:M:4925:MET:HE2	1:M:4951:LEU:HD21	1.90	0.53
1:M:4977:SER:O	1:M:4978:PHE:C	2.52	0.53
1:B:430:ARG:CZ	2:D:1194:LYS:HB3	2.40	0.53
1:B:555:ALA:O	1:B:556:ILE:HG13	2.09	0.53
1:B:757:ASN:HD21	1:B:774:LYS:NZ	2.07	0.53
2:D:1366:ASP:CA	1:F:1964:ARG:NH2	2.72	0.53
1:F:2195:ILE:CD1	1:I:3414:LEU:HD22	2.39	0.53
1:F:2198:LEU:HD21	1:I:3419:LYS:CA	2.37	0.53
1:F:2231:LYS:HD3	1:I:3386:LEU:HD11	1.85	0.53
1:G:2371:GLN:OE1	1:G:2371:GLN:HA	2.09	0.53
1:G:2549:MET:HE2	1:G:2575:LEU:HD21	1.90	0.53
1:H:2936:GLN:HG2	1:H:3050:ASN:HD22	1.74	0.53
1:H:3082:ALA:C	1:H:3084:GLN:N	2.67	0.53
1:J:3737:MET:HE2	1:J:3763:LEU:HD21	1.90	0.53
1:J:3789:SER:O	1:J:3790:PHE:C	2.52	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:3799:THR:C	1:J:3800:MET:HG3	2.33	0.53
1:L:4528:ILE:HD12	1:L:4529:MET:C	2.34	0.53
1:A:217:ARG:HG3	1:A:310:GLN:NE2	2.24	0.52
1:A:298:ARG:HE	1:L:4602:LEU:C	2.12	0.52
2:D:1242:GLY:HA2	1:E:1572:GLN:HG3	1.91	0.52
1:F:2152:ILE:HD12	1:F:2153:MET:C	2.35	0.52
1:F:2208:ALA:HB3	1:I:3378:LYS:HD2	1.91	0.52
1:G:2449:VAL:O	1:G:2471:VAL:O	2.27	0.52
1:G:2549:MET:HE2	1:G:2575:LEU:CD1	2.33	0.52
1:H:2869:ALA:HB3	1:H:2877:GLN:CB	2.38	0.52
1:I:3479:ASN:HD21	1:I:3496:LYS:NZ	2.08	0.52
1:K:3949:PHE:CE2	1:M:4738:PHE:HE1	2.25	0.52
1:K:4069:ALA:O	1:K:4070:ILE:HG13	2.10	0.52
1:L:4433:THR:HG21	1:L:4462:THR:OG1	2.08	0.52
1:L:4520:GLN:HG2	1:L:4634:ASN:HD22	1.74	0.52
1:A:45:GLN:OE1	1:A:45:GLN:HA	2.09	0.52
1:B:718:ILE:CG2	1:B:719:PHE:N	2.67	0.52
2:D:1389:LYS:HZ2	1:F:1961:ARG:HG2	1.74	0.52
2:D:1444:ALA:N	1:M:4740:GLN:H	2.08	0.52
1:E:1693:ALA:O	1:E:1694:ILE:HG13	2.09	0.52
1:E:1701:GLY:O	1:E:1714:ASN:N	2.35	0.52
1:F:2152:ILE:HD12	1:F:2152:ILE:C	2.33	0.52
1:F:2205:SER:O	1:F:2206:PHE:C	2.52	0.52
1:F:2291:ASN:HD21	1:F:2308:LYS:NZ	2.08	0.52
1:G:2458:ASN:ND2	1:G:2461:GLY:N	2.58	0.52
1:G:2540:GLN:HG2	1:G:2654:ASN:HD22	1.74	0.52
1:K:4127:ARG:HG3	1:K:4220:GLN:NE2	2.24	0.52
1:K:4201:LYS:HG2	1:K:4216:ASN:HB2	1.90	0.52
1:A:34:ARG:C	2:D:1533:GLN:C	2.73	0.52
1:A:159:ALA:O	1:A:160:ILE:HG13	2.09	0.52
1:C:837:GLN:OE1	1:C:837:GLN:HA	2.09	0.52
1:C:924:ASN:ND2	1:C:927:GLY:N	2.58	0.52
1:C:1023:LEU:O	1:E:1778:PHE:CD2	2.54	0.52
1:E:1748:GLN:HG2	1:E:1862:ASN:HD22	1.74	0.52
1:F:2225:GLY:N	1:I:3421:VAL:H	2.06	0.52
1:G:2563:VAL:CG2	1:M:4937:MET:CA	2.83	0.52
1:G:2714:ARG:HG3	1:G:2714:ARG:NH1	2.23	0.52
1:J:3728:GLN:HG2	1:J:3842:ASN:HD22	1.74	0.52
1:K:4271:ASN:OD1	1:K:4293:ALA:N	2.25	0.52
1:A:31:ARG:CG	2:D:1493:TYR:CD1	2.92	0.52
1:A:132:ASN:C	1:A:132:ASN:ND2	2.64	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:613:ARG:HG3	1:B:706:GLN:NE2	2.24	0.52
1:B:618:ILE:HD12	1:B:619:MET:C	2.35	0.52
2:D:1322:THR:N	1:G:2361:ASN:HD22	2.08	0.52
2:D:1425:GLN:CA	1:L:4345:PHE:CZ	2.89	0.52
2:D:1441:ALA:O	1:M:4740:GLN:CG	2.58	0.52
2:D:1447:PHE:C	1:K:3947:GLN:C	2.50	0.52
1:E:1579:GLN:OE1	1:E:1579:GLN:HA	2.09	0.52
1:F:2144:GLN:OE1	1:F:2239:LEU:HG	2.10	0.52
1:F:2147:ARG:HG3	1:F:2240:GLN:NE2	2.24	0.52
1:F:2213:VAL:HG11	1:I:3416:ARG:CB	2.27	0.52
1:F:2304:VAL:C	1:F:2306:ASP:H	2.18	0.52
1:G:2624:ARG:HE	1:M:4943:ARG:NH2	2.06	0.52
1:G:2624:ARG:HD3	1:M:4941:ALA:CB	2.04	0.52
1:H:3096:VAL:C	1:H:3098:ASP:H	2.18	0.52
1:J:3541:VAL:HG11	1:J:3559:GLN:HE21	1.75	0.52
1:K:4124:GLN:HG2	1:K:4238:ASN:HD22	1.74	0.52
1:K:4241:LYS:H	1:K:4241:LYS:CD	2.19	0.52
1:L:4667:ASN:HD21	1:L:4684:LYS:NZ	2.08	0.52
1:M:4849:ALA:HB3	1:M:4857:GLN:CB	2.38	0.52
1:A:132:ASN:ND2	1:A:135:GLY:N	2.58	0.52
1:A:147:ALA:HB3	1:A:155:GLN:CB	2.38	0.52
1:A:260:LYS:NZ	1:L:4547:ARG:NH2	2.57	0.52
1:B:429:PRO:HB2	2:D:1232:THR:HG1	1.66	0.52
1:B:610:GLN:OE1	1:B:705:LEU:HG	2.10	0.52
1:C:1028:LYS:HG2	1:E:1779:VAL:C	1.91	0.52
1:C:1152:ALA:C	1:C:1154:GLN:H	2.16	0.52
1:C:1166:VAL:C	1:C:1168:ASP:H	2.18	0.52
2:D:1440:TRP:HB3	1:M:4740:GLN:CD	2.33	0.52
2:D:1523:ASP:HB2	1:J:3548:ARG:CA	2.39	0.52
1:E:1751:ARG:HG3	1:E:1844:GLN:NE2	2.24	0.52
1:F:2153:MET:HE2	1:F:2179:LEU:CD1	2.33	0.52
1:F:2171:ARG:NH2	1:I:3372:ALA:H	2.07	0.52
1:G:2601:SER:O	1:G:2602:PHE:C	2.52	0.52
1:G:2624:ARG:HD3	1:M:4999:LEU:HD11	1.87	0.52
1:G:2687:ASN:HD21	1:G:2704:LYS:NZ	2.08	0.52
1:H:3082:ALA:C	1:H:3084:GLN:H	2.16	0.52
1:I:3145:VAL:HG11	1:I:3163:GLN:HE21	1.75	0.52
1:M:4916:GLN:HG2	1:M:5030:ASN:HD22	1.74	0.52
1:M:4987:THR:C	1:M:4988:MET:HG3	2.33	0.52
1:A:222:ILE:HD12	1:A:223:MET:C	2.35	0.52
1:C:819:VAL:HG11	1:C:837:GLN:HE21	1.75	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1179:GLN:HA	1:C:1183:SER:O	2.10	0.52
2:D:1367:GLY:N	1:F:1968:GLN:HB3	2.24	0.52
2:D:1389:LYS:HZ1	1:F:1960:PRO:N	2.05	0.52
1:E:1748:GLN:OE1	1:E:1843:LEU:HG	2.10	0.52
1:E:1894:ALA:C	1:E:1896:GLN:N	2.67	0.52
1:G:2353:VAL:HG11	1:G:2371:GLN:HE21	1.75	0.52
1:J:3731:ARG:HG3	1:J:3824:GLN:NE2	2.24	0.52
1:L:4523:ARG:HG3	1:L:4616:GLN:NE2	2.24	0.52
1:M:4729:VAL:HG11	1:M:4747:GLN:HE21	1.75	0.52
1:A:27:VAL:HG11	1:A:45:GLN:HE21	1.75	0.52
1:A:395:LEU:HD22	1:A:395:LEU:N	2.25	0.52
1:C:1019:LEU:CG	1:E:1832:ARG:CD	2.76	0.52
2:D:1366:ASP:CG	1:F:1970:PHE:CE2	2.87	0.52
2:D:1368:VAL:HA	1:F:1965:ASN:OD1	2.05	0.52
2:D:1508:LEU:CB	1:K:3951:GLY:CA	2.88	0.52
1:E:1561:VAL:HG11	1:E:1579:GLN:HE21	1.75	0.52
1:F:2089:ALA:O	1:F:2090:ILE:HG13	2.09	0.52
1:F:2190:LYS:CA	1:I:3382:VAL:CG1	2.88	0.52
1:F:2230:GLY:CA	1:I:3338:LEU:CD1	2.49	0.52
1:F:2230:GLY:HA3	1:I:3338:LEU:HD13	1.80	0.52
1:G:2540:GLN:OE1	1:G:2635:LEU:HG	2.10	0.52
1:I:3265:ALA:HB3	1:I:3273:GLN:CB	2.39	0.52
1:I:3341:MET:HE2	1:I:3367:LEU:HD21	1.90	0.52
1:J:3548:ARG:NE	1:J:3548:ARG:HA	2.24	0.52
1:J:3646:ASN:ND2	1:J:3649:GLY:N	2.58	0.52
1:K:4132:ILE:HD12	1:K:4133:MET:C	2.34	0.52
1:K:4270:ALA:C	1:K:4272:GLN:H	2.16	0.52
1:M:4869:GLY:O	1:M:4882:ASN:N	2.35	0.52
1:M:5089:GLN:HA	1:M:5093:SER:O	2.10	0.52
1:A:31:ARG:NH1	2:D:1491:THR:O	2.24	0.52
1:A:260:LYS:HZ1	1:L:4547:ARG:CZ	2.15	0.52
1:A:361:ASN:HD21	1:A:378:LYS:NZ	2.08	0.52
1:C:1015:MET:HE2	1:C:1041:LEU:HD21	1.90	0.52
1:C:1153:ASN:HD21	1:C:1170:LYS:NZ	2.08	0.52
2:D:1210:TYR:CZ	1:J:3553:PHE:O	2.62	0.52
2:D:1361:LEU:HA	1:H:2760:GLN:CD	2.26	0.52
2:D:1365:GLY:HA2	1:F:1970:PHE:CG	2.39	0.52
1:E:1895:ASN:HD21	1:E:1912:LYS:NZ	2.07	0.52
1:F:1975:GLN:OE1	1:F:1975:GLN:HA	2.09	0.52
1:F:2153:MET:N	1:I:3355:VAL:CG1	2.61	0.52
1:F:2153:MET:C	1:I:3355:VAL:CG1	2.74	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:2224:LEU:CG	1:I:3414:LEU:CB	2.86	0.52
1:G:2493:GLY:O	1:G:2506:ASN:N	2.35	0.52
1:G:2557:LEU:HB3	1:M:4938:LYS:NZ	2.17	0.52
1:H:2936:GLN:OE1	1:H:3031:LEU:HG	2.10	0.52
1:I:3277:ALA:O	1:I:3278:ILE:HG13	2.09	0.52
1:I:3332:GLN:OE1	1:I:3427:LEU:HG	2.10	0.52
1:I:3335:ARG:HG3	1:I:3428:GLN:NE2	2.24	0.52
1:J:3673:ALA:O	1:J:3674:ILE:HG13	2.10	0.52
1:J:3901:GLN:HA	1:J:3905:SER:O	2.10	0.52
1:K:3937:VAL:HG11	1:K:3955:GLN:HE21	1.75	0.52
1:L:4473:GLY:O	1:L:4486:ASN:N	2.35	0.52
1:M:4861:ALA:O	1:M:4862:ILE:HG13	2.09	0.52
1:A:39:PHE:CE2	1:C:828:PHE:CE1	2.98	0.52
1:B:437:GLY:N	2:D:1191:VAL:HG23	2.18	0.52
1:B:634:ASP:OD2	1:J:3811:LEU:C	2.53	0.52
1:C:1014:ILE:HD12	1:C:1015:MET:C	2.34	0.52
2:D:1221:GLN:HG3	1:J:3553:PHE:O	2.10	0.52
2:D:1447:PHE:CE2	1:K:3946:PHE:HA	2.45	0.52
2:D:1482:ILE:HG13	1:M:4738:PHE:CD2	2.40	0.52
1:F:1957:VAL:HG11	1:F:1975:GLN:HE21	1.75	0.52
1:F:1966:PHE:CE1	1:G:2365:PHE:CE2	2.98	0.52
1:F:2185:ALA:HB3	1:I:3357:ALA:HB1	1.92	0.52
1:F:2224:LEU:HB2	1:I:3414:LEU:CG	2.40	0.52
1:H:2944:ILE:HD12	1:H:2945:MET:C	2.34	0.52
1:I:3340:ILE:HD12	1:I:3341:MET:C	2.35	0.52
1:I:3492:VAL:C	1:I:3494:ASP:H	2.18	0.52
1:J:3736:ILE:HD12	1:J:3737:MET:C	2.35	0.52
1:K:3960:LEU:C	1:K:3960:LEU:HD23	2.35	0.52
1:K:4185:SER:O	1:K:4186:PHE:C	2.52	0.52
1:L:4666:ALA:C	1:L:4668:GLN:H	2.16	0.52
1:A:30:PRO:CA	2:D:1498:MET:O	2.58	0.52
1:B:423:VAL:HG11	1:B:441:GLN:HE21	1.75	0.52
1:B:441:GLN:OE1	1:B:441:GLN:HA	2.09	0.52
1:C:1019:LEU:HD13	1:C:1032:GLN:CA	2.40	0.52
1:F:2224:LEU:HB3	1:I:3419:LYS:CB	2.39	0.52
1:F:2230:GLY:CA	1:I:3401:VAL:HG12	2.40	0.52
1:G:2686:ALA:C	1:G:2688:GLN:N	2.67	0.52
1:G:2700:VAL:C	1:G:2702:ASP:H	2.18	0.52
1:H:2758:PHE:CE1	1:I:3157:PHE:CE2	2.98	0.52
1:H:2761:PHE:CE2	1:J:3550:PHE:CE1	2.98	0.52
1:H:2997:SER:O	1:H:2998:PHE:C	2.52	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:3083:ASN:HD21	1:H:3100:LYS:NZ	2.08	0.52
1:K:3949:PHE:CE2	1:M:4738:PHE:CE1	2.98	0.52
1:K:4137:LEU:HD13	1:K:4150:GLN:CA	2.40	0.52
1:K:4271:ASN:HD21	1:K:4288:LYS:NZ	2.07	0.52
1:L:4666:ALA:C	1:L:4668:GLN:N	2.67	0.52
1:M:4919:ARG:HG3	1:M:5012:GLN:NE2	2.24	0.52
1:M:5063:ASN:HD21	1:M:5080:LYS:NZ	2.08	0.52
1:A:50:LEU:HD23	1:A:50:LEU:C	2.35	0.51
1:A:223:MET:HE2	1:A:249:LEU:CD1	2.33	0.51
1:B:433:GLN:HE21	2:D:1239:THR:HG21	1.75	0.51
1:B:623:LEU:HD13	1:B:636:GLN:CA	2.40	0.51
1:C:826:ARG:HA	1:C:826:ARG:NE	2.24	0.51
1:C:1006:GLN:OE1	1:C:1101:LEU:HG	2.10	0.51
2:D:1473:LEU:O	1:M:4733:ARG:O	2.28	0.51
1:F:2171:ARG:NH1	1:I:3373:ALA:HB2	2.06	0.51
1:F:2175:VAL:HG11	1:I:3382:VAL:CB	2.39	0.51
1:F:2197:SER:HB2	1:I:3421:VAL:HG21	1.77	0.51
1:F:2224:LEU:CD1	1:I:3414:LEU:HB2	2.40	0.51
1:F:2266:VAL:CG2	1:F:2286:VAL:HG22	2.40	0.51
1:F:2325:LEU:N	1:F:2325:LEU:HD22	2.25	0.51
1:G:2543:ARG:HG3	1:G:2636:GLN:NE2	2.24	0.51
1:G:2588:GLY:C	1:M:4940:ASP:H	2.17	0.51
1:G:2623:LEU:CA	1:M:5001:ASP:OD1	2.59	0.51
1:J:3728:GLN:OE1	1:J:3823:LEU:HG	2.10	0.51
1:J:3874:ALA:C	1:J:3876:GLN:N	2.67	0.51
1:K:4246:VAL:CG2	1:K:4266:VAL:HG22	2.40	0.51
1:L:4693:GLN:HA	1:L:4697:SER:O	2.10	0.51
1:L:4701:LEU:HD22	1:L:4701:LEU:N	2.25	0.51
1:M:5038:VAL:CG2	1:M:5058:VAL:HG22	2.40	0.51
1:A:30:PRO:C	2:D:1498:MET:C	2.78	0.51
1:A:36:PHE:CZ	2:D:1190:GLU:N	2.61	0.51
1:B:661:ILE:HD12	1:B:661:ILE:H	1.75	0.51
1:B:671:SER:O	1:B:672:PHE:C	2.52	0.51
1:C:842:LEU:HD23	1:C:842:LEU:C	2.35	0.51
1:C:1128:VAL:CG2	1:C:1148:VAL:HG22	2.40	0.51
2:D:1323:ASP:HB2	1:G:2359:PRO:HD3	1.89	0.51
2:D:1325:PHE:CG	1:G:2357:ARG:N	2.74	0.51
2:D:1425:GLN:O	1:K:3946:PHE:HD1	1.88	0.51
1:E:1584:LEU:HD23	1:E:1584:LEU:C	2.35	0.51
1:E:1908:VAL:C	1:E:1910:ASP:H	2.18	0.51
1:F:2203:ILE:N	1:I:3376:GLY:HA2	2.24	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:2317:GLN:HA	1:F:2321:SER:O	2.10	0.51
1:G:2473:ALA:HB3	1:G:2481:GLN:CB	2.38	0.51
1:G:2548:ILE:HD12	1:G:2549:MET:C	2.34	0.51
1:H:3053:LYS:H	1:H:3053:LYS:CD	2.19	0.51
1:K:4077:GLY:O	1:K:4090:ASN:N	2.35	0.51
1:L:4342:PHE:CE1	1:M:4741:PHE:CE2	2.98	0.51
1:L:4356:LEU:HD23	1:L:4356:LEU:C	2.35	0.51
1:L:4465:ALA:O	1:L:4466:ILE:HG13	2.10	0.51
1:M:4929:LEU:HD13	1:M:4942:GLN:CA	2.40	0.51
1:A:388:ARG:HG3	1:A:388:ARG:NH1	2.23	0.51
1:C:1006:GLN:HG2	1:C:1120:ASN:HD22	1.74	0.51
1:C:1009:ARG:HG3	1:C:1102:GLN:NE2	2.24	0.51
1:C:1187:LEU:HD22	1:C:1187:LEU:N	2.25	0.51
2:D:1275:SER:H	1:G:2361:ASN:C	2.18	0.51
2:D:1488:VAL:N	1:K:3941:ARG:CG	2.63	0.51
1:E:1756:ILE:HD12	1:E:1757:MET:C	2.34	0.51
1:E:1761:LEU:HD13	1:E:1774:GLN:CA	2.40	0.51
1:F:2144:GLN:HG2	1:F:2258:ASN:HD22	1.74	0.51
1:F:2195:ILE:N	1:I:3363:VAL:HG21	2.24	0.51
1:H:2772:LEU:C	1:H:2772:LEU:HD23	2.35	0.51
1:H:2881:ALA:O	1:H:2882:ILE:HG13	2.09	0.51
1:I:3332:GLN:HG2	1:I:3446:ASN:HD22	1.74	0.51
1:J:3850:VAL:CG2	1:J:3870:VAL:HG22	2.40	0.51
1:L:4533:LEU:HD13	1:L:4546:GLN:CA	2.40	0.51
1:M:5062:ALA:C	1:M:5064:GLN:H	2.16	0.51
1:A:67:ASN:O	1:A:71:ASP:HB2	2.11	0.51
2:D:1324:PHE:HE2	1:G:2357:ARG:HH11	1.56	0.51
2:D:1368:VAL:O	1:F:1965:ASN:ND2	2.42	0.51
1:E:1570:PHE:CE1	1:F:1969:PHE:CE2	2.98	0.51
1:F:2174:PHE:HE1	1:I:3349:LEU:HD12	1.75	0.51
1:G:2662:VAL:CG2	1:G:2682:VAL:HG22	2.40	0.51
1:I:3185:ASN:O	1:I:3189:ASP:HB2	2.11	0.51
1:M:4924:ILE:HD12	1:M:4925:MET:C	2.35	0.51
1:M:5097:LEU:HD22	1:M:5097:LEU:N	2.25	0.51
1:A:167:GLY:O	1:A:180:ASN:N	2.35	0.51
1:A:263:ASP:OD1	1:L:4603:LEU:HD23	2.10	0.51
1:A:360:ALA:C	1:A:362:GLN:N	2.67	0.51
1:B:587:ILE:O	1:B:587:ILE:HG12	2.11	0.51
1:B:791:LEU:HD22	1:B:791:LEU:N	2.25	0.51
2:D:1407:GLU:CB	1:M:4741:PHE:CE1	2.91	0.51
1:F:2178:VAL:C	1:I:3355:VAL:O	2.50	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:2393:ASN:O	1:G:2397:ASP:HB2	2.11	0.51
1:G:2485:ALA:O	1:G:2486:ILE:HG13	2.09	0.51
1:H:2945:MET:HE2	1:H:2971:LEU:CD1	2.33	0.51
1:L:4520:GLN:OE1	1:L:4615:LEU:HG	2.10	0.51
1:L:4642:VAL:CG2	1:L:4662:VAL:HG22	2.40	0.51
1:M:4769:ASN:O	1:M:4773:ASP:HB2	2.11	0.51
1:M:4834:ASN:ND2	1:M:4837:GLY:N	2.58	0.51
1:C:859:ASN:O	1:C:863:ASP:HB2	2.11	0.51
1:C:890:ASP:CG	1:C:890:ASP:O	2.54	0.51
1:C:1027:MET:C	1:E:1797:ASP:O	2.54	0.51
1:C:1038:SER:OG	1:E:1772:ASP:N	2.43	0.51
1:C:1091:ASP:OD2	1:E:1836:GLN:OE1	2.28	0.51
2:D:1432:ALA:CA	1:M:4740:GLN:NE2	2.61	0.51
1:E:1870:VAL:CG2	1:E:1890:VAL:HG22	2.40	0.51
1:F:2151:GLY:CA	1:I:3356:ASP:HB3	2.23	0.51
1:H:2854:ASN:ND2	1:H:2857:GLY:N	2.58	0.51
1:I:3505:GLN:HA	1:I:3509:SER:O	2.10	0.51
1:K:4101:ILE:HG12	1:K:4101:ILE:O	2.11	0.51
1:K:4133:MET:HE2	1:K:4159:LEU:HD21	1.90	0.51
1:K:4284:VAL:C	1:K:4286:ASP:H	2.18	0.51
1:A:171:ASN:CB	1:C:794:MET:HE1	2.28	0.51
1:A:268:LEU:HD13	1:A:282:GLN:HE21	1.76	0.51
1:A:374:VAL:C	1:A:376:ASP:H	2.18	0.51
1:B:770:VAL:C	1:B:772:ASP:H	2.18	0.51
2:D:1249:GLN:HG3	1:I:3154:PHE:CD1	2.39	0.51
1:E:1601:ASN:O	1:E:1605:ASP:HB2	2.11	0.51
1:E:1632:ASP:CG	1:E:1632:ASP:O	2.54	0.51
1:F:1997:ASN:O	1:F:2001:ASP:HB2	2.11	0.51
1:F:2168:ASP:O	1:I:3341:MET:HG3	2.11	0.51
1:F:2216:MET:HE1	1:I:3419:LYS:NZ	2.25	0.51
1:F:2229:ASP:H	1:I:3401:VAL:HG11	1.74	0.51
1:H:3022:GLY:N	1:K:4211:LYS:HD3	2.20	0.51
1:J:3874:ALA:HB1	1:J:3888:VAL:HG21	1.93	0.51
1:L:4571:ILE:HD12	1:L:4571:ILE:H	1.75	0.51
1:A:36:PHE:CE1	1:B:435:PHE:CE2	2.98	0.51
1:A:227:LEU:HD13	1:A:240:GLN:CA	2.40	0.51
1:A:387:GLN:HA	1:A:391:SER:O	2.10	0.51
1:B:756:ALA:HB1	1:B:770:VAL:HG21	1.93	0.51
2:D:1406:ALA:C	1:F:1963:PRO:CD	2.82	0.51
1:E:1802:LEU:HD13	1:E:1816:GLN:HE21	1.76	0.51
1:E:1929:LEU:HD22	1:E:1929:LEU:N	2.25	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:2563:VAL:HG22	1:M:4937:MET:CG	2.40	0.51
1:G:2624:ARG:HD2	1:M:4940:ASP:C	2.35	0.51
1:G:2721:LEU:HD22	1:G:2721:LEU:N	2.25	0.51
1:H:2945:MET:HE2	1:H:2971:LEU:HD21	1.90	0.51
1:H:2953:LEU:C	1:K:4145:MET:CA	2.83	0.51
1:H:2985:ASP:C	1:K:4209:ASP:OD1	2.54	0.51
1:J:3581:ASN:O	1:J:3585:ASP:HB2	2.11	0.51
1:J:3741:LEU:HD13	1:J:3754:GLN:CA	2.40	0.51
1:K:4270:ALA:HB1	1:K:4284:VAL:HG21	1.93	0.51
1:L:4453:ALA:HB3	1:L:4461:GLN:CB	2.38	0.51
1:M:4752:LEU:HD23	1:M:4752:LEU:C	2.35	0.51
1:A:2:MET:HE1	1:B:567:ASN:CB	2.28	0.51
1:A:214:GLN:OE1	1:A:309:LEU:HG	2.10	0.51
1:A:223:MET:HE2	1:A:249:LEU:HD21	1.90	0.51
1:A:275:SER:O	1:A:276:PHE:C	2.52	0.51
1:C:1152:ALA:C	1:C:1154:GLN:N	2.67	0.51
2:D:1446:ASN:OD1	1:K:3949:PHE:CZ	2.64	0.51
2:D:1487:ASP:OD1	2:D:1503:ASP:OD1	2.28	0.51
1:F:2227:LEU:C	1:I:3340:ILE:CG2	2.29	0.51
1:G:2360:ARG:NE	1:G:2360:ARG:HA	2.24	0.51
1:G:2517:ILE:O	1:G:2517:ILE:HG12	2.11	0.51
1:G:2553:LEU:HD13	1:G:2566:GLN:CA	2.40	0.51
1:G:2713:GLN:HA	1:G:2717:SER:O	2.10	0.51
1:H:2820:ASP:O	1:H:2820:ASP:CG	2.54	0.51
1:H:2913:ILE:O	1:H:2913:ILE:HG12	2.11	0.51
1:H:3021:ASP:CG	1:K:4211:LYS:O	2.39	0.51
1:J:3875:ASN:HD21	1:J:3892:LYS:NZ	2.08	0.51
1:J:3888:VAL:C	1:J:3890:ASP:H	2.18	0.51
1:K:4270:ALA:C	1:K:4272:GLN:N	2.67	0.51
1:K:4297:GLN:HA	1:K:4301:SER:O	2.10	0.51
1:L:4497:ILE:HG12	1:L:4497:ILE:O	2.11	0.51
1:A:301:LYS:HZ1	1:L:4601:GLY:CA	2.13	0.51
1:B:432:PHE:CE1	1:C:831:PHE:CE2	2.98	0.51
1:F:2044:LYS:HD3	1:F:2105:GLU:OE2	2.12	0.51
1:F:2169:ALA:CB	1:I:3339:GLY:C	2.52	0.51
1:F:2191:ALA:N	1:I:3345:LEU:CD2	2.74	0.51
1:F:2290:ALA:C	1:F:2292:GLN:N	2.67	0.51
1:G:2624:ARG:N	1:M:5000:ARG:N	2.50	0.51
1:H:2749:VAL:HG11	1:H:2767:GLN:HE21	1.75	0.51
1:H:2758:PHE:CZ	1:I:3157:PHE:CZ	2.99	0.51
1:H:2949:LEU:HD13	1:H:2962:GLN:CA	2.40	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:3478:ALA:HB1	1:I:3492:VAL:HG21	1.93	0.51
1:J:3909:LEU:HD22	1:J:3909:LEU:N	2.25	0.51
1:K:4305:LEU:HD22	1:K:4305:LEU:N	2.25	0.51
1:L:4312:ALA:N	1:M:4826:GLY:HA3	2.26	0.51
1:M:4916:GLN:OE1	1:M:5011:LEU:HG	2.10	0.51
1:B:783:GLN:HA	1:B:787:SER:O	2.10	0.50
2:D:1275:SER:HA	1:G:2362:PHE:CG	2.43	0.50
1:E:1573:PHE:CZ	1:G:2362:PHE:CZ	2.99	0.50
1:E:1757:MET:HE2	1:E:1783:LEU:HD21	1.90	0.50
1:F:2195:ILE:HD12	1:F:2195:ILE:H	1.76	0.50
1:G:2594:LEU:HD13	1:G:2608:GLN:HE21	1.76	0.50
1:H:2987:ILE:HD12	1:H:2987:ILE:H	1.76	0.50
1:H:3058:VAL:CG2	1:H:3078:VAL:HG22	2.40	0.50
1:H:3077:ASP:CA	1:H:3110:ARG:HB3	2.42	0.50
1:H:3082:ALA:HB1	1:H:3096:VAL:HG21	1.93	0.50
1:H:3117:LEU:HD22	1:H:3117:LEU:N	2.25	0.50
1:I:3154:PHE:CE1	1:J:3553:PHE:CE2	2.98	0.50
1:I:3513:LEU:HD22	1:I:3513:LEU:N	2.25	0.50
1:K:3946:PHE:CE1	1:L:4345:PHE:CE2	2.98	0.50
1:M:4800:ASP:CG	1:M:4800:ASP:O	2.54	0.50
1:A:29:THR:HA	2:D:1494:PHE:CD1	2.44	0.50
1:A:264:VAL:HG23	1:L:4604:ARG:CD	2.40	0.50
1:A:298:ARG:HA	1:L:4569:ASP:CB	2.39	0.50
1:A:336:VAL:CG2	1:A:356:VAL:HG22	2.40	0.50
1:B:494:ASP:CG	1:B:494:ASP:O	2.54	0.50
1:C:1023:LEU:C	1:E:1778:PHE:CZ	2.74	0.50
1:C:1088:LEU:HD22	1:E:1834:GLY:HA3	0.51	0.50
2:D:1275:SER:C	1:G:2363:GLN:CB	2.67	0.50
2:D:1389:LYS:C	1:F:1961:ARG:HB2	2.35	0.50
1:F:2175:VAL:CG1	1:I:3380:GLY:O	2.56	0.50
1:H:3109:GLN:HA	1:H:3113:SER:O	2.10	0.50
1:I:3393:SER:O	1:I:3394:PHE:C	2.52	0.50
1:I:3454:VAL:CG2	1:I:3474:VAL:HG22	2.40	0.50
1:K:4124:GLN:OE1	1:K:4219:LEU:HG	2.10	0.50
1:L:4373:ASN:O	1:L:4377:ASP:HB2	2.11	0.50
1:M:4970:LEU:HD13	1:M:4984:GLN:HE21	1.76	0.50
1:A:6:ALA:N	1:B:520:GLY:HA3	2.26	0.50
1:B:732:VAL:CG2	1:B:752:VAL:HG22	2.40	0.50
1:C:1023:LEU:HG	1:E:1769:MET:O	2.11	0.50
1:E:1894:ALA:CA	1:E:1899:VAL:HG23	2.42	0.50
1:G:2376:LEU:HD23	1:G:2376:LEU:C	2.35	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:2761:PHE:CZ	1:J:3550:PHE:CZ	2.99	0.50
1:J:3564:LEU:HD23	1:J:3564:LEU:C	2.35	0.50
1:J:3612:ASP:CG	1:J:3612:ASP:O	2.54	0.50
1:K:4081:ASN:CB	1:M:4704:MET:HE1	2.28	0.50
1:K:4178:LEU:HD13	1:K:4192:GLN:HE21	1.76	0.50
1:L:4680:VAL:C	1:L:4682:ASP:H	2.18	0.50
1:M:4816:LYS:HD3	1:M:4877:GLU:OE2	2.12	0.50
1:M:4967:ILE:HD12	1:M:4967:ILE:H	1.76	0.50
1:M:5062:ALA:CA	1:M:5067:VAL:HG23	2.42	0.50
1:A:124:GLY:HA3	1:C:798:ALA:N	2.26	0.50
1:B:434:GLN:NE2	2:D:1230:GLY:C	2.68	0.50
1:B:718:ILE:CG2	1:B:719:PHE:H	2.05	0.50
1:B:756:ALA:CA	1:B:761:VAL:HG23	2.42	0.50
1:C:1032:GLN:H	1:E:1793:ILE:H	1.59	0.50
1:C:1067:SER:O	1:C:1068:PHE:C	2.52	0.50
1:C:1152:ALA:CA	1:C:1157:VAL:HG23	2.42	0.50
2:D:1289:THR:CA	1:K:3947:GLN:OE1	2.58	0.50
2:D:1324:PHE:CE2	1:G:2357:ARG:NH1	2.79	0.50
2:D:1429:THR:C	1:M:4741:PHE:CD2	2.90	0.50
1:E:1921:GLN:HA	1:E:1925:SER:O	2.10	0.50
1:F:2157:LEU:HD13	1:F:2170:GLN:CA	2.40	0.50
1:F:2203:ILE:HB	1:I:3377:ILE:C	2.35	0.50
1:G:2424:ASP:CG	1:G:2424:ASP:O	2.54	0.50
1:G:2562:LYS:CA	1:M:4937:MET:HE2	2.17	0.50
1:G:2657:LYS:H	1:G:2657:LYS:CD	2.19	0.50
1:H:2985:ASP:HA	1:K:4208:ARG:O	2.11	0.50
1:I:3124:ALA:N	1:J:3638:GLY:HA3	2.26	0.50
1:I:3309:ILE:O	1:I:3309:ILE:HG12	2.11	0.50
1:J:3628:LYS:HD3	1:J:3689:GLU:OE2	2.12	0.50
1:J:3845:LYS:H	1:J:3845:LYS:CD	2.19	0.50
1:J:3869:ASP:CA	1:J:3902:ARG:HB3	2.41	0.50
1:K:3946:PHE:CZ	1:L:4345:PHE:CZ	2.99	0.50
1:L:4333:VAL:HG11	1:L:4351:GLN:HE21	1.75	0.50
1:L:4404:ASP:CG	1:L:4404:ASP:O	2.54	0.50
1:M:4736:ARG:NE	1:M:4736:ARG:HA	2.24	0.50
1:A:231:LEU:HD22	1:L:4541:MET:HA	1.93	0.50
1:B:402:ALA:N	1:C:916:GLY:HA3	2.26	0.50
1:B:751:ASP:CA	1:B:784:ARG:HB3	2.41	0.50
1:B:756:ALA:C	1:B:758:GLN:N	2.67	0.50
1:C:1060:LEU:HD13	1:C:1074:GLN:HE21	1.76	0.50
1:F:2178:VAL:CB	1:I:3345:LEU:HD22	2.42	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:2198:LEU:CB	1:I:3419:LYS:HB3	2.39	0.50
1:H:2990:LEU:HD13	1:H:3004:GLN:HE21	1.76	0.50
1:K:3916:ALA:N	1:L:4430:GLY:HA3	2.26	0.50
1:A:39:PHE:CZ	1:C:828:PHE:CZ	2.99	0.50
1:A:114:LYS:HD3	1:A:175:GLU:OE2	2.12	0.50
1:B:446:LEU:HD23	1:B:446:LEU:C	2.35	0.50
2:D:1319:TYR:O	1:G:2364:GLN:CA	2.49	0.50
2:D:1384:ALA:C	1:L:4343:GLN:HG3	2.29	0.50
2:D:1394:GLN:HG3	1:H:2755:PRO:CB	2.42	0.50
2:D:1488:VAL:N	1:K:3941:ARG:HB3	2.23	0.50
1:F:1936:ALA:N	1:G:2450:GLY:HA3	2.26	0.50
1:F:1980:LEU:HD23	1:F:1980:LEU:C	2.35	0.50
1:F:2190:LYS:HA	1:I:3345:LEU:CD1	2.42	0.50
1:F:2203:ILE:HB	1:I:3377:ILE:N	2.26	0.50
1:G:2635:LEU:HD13	1:G:2636:GLN:H	1.77	0.50
1:I:3154:PHE:CZ	1:J:3553:PHE:CZ	2.99	0.50
1:I:3168:LEU:HD23	1:I:3168:LEU:C	2.35	0.50
1:I:3438:SER:C	1:I:3440:ILE:N	2.70	0.50
1:I:3473:ASP:CA	1:I:3506:ARG:HB3	2.41	0.50
1:J:3705:ILE:O	1:J:3705:ILE:HG12	2.11	0.50
1:J:3823:LEU:HD13	1:J:3824:GLN:H	1.77	0.50
1:A:31:ARG:HD2	2:D:1491:THR:HG22	0.51	0.50
1:B:528:ASN:ND2	1:B:531:GLY:N	2.58	0.50
1:B:563:GLY:O	1:B:576:ASN:N	2.35	0.50
1:C:1035:ALA:CB	1:E:1833:ASP:CG	2.83	0.50
1:C:1080:VAL:HG12	1:C:1081:GLY:N	2.27	0.50
2:D:1322:THR:H	1:G:2361:ASN:HB2	1.77	0.50
2:D:1361:LEU:HB3	1:H:2759:GLN:C	2.35	0.50
2:D:1524:ASN:HB2	1:J:3545:ARG:C	2.24	0.50
1:E:1843:LEU:HD13	1:E:1844:GLN:H	1.77	0.50
1:F:2150:LEU:CD1	1:I:3418:GLY:H	1.96	0.50
1:F:2195:ILE:CG2	1:I:3377:ILE:HG12	2.42	0.50
1:F:2196:THR:HG23	1:I:3372:ALA:O	0.69	0.50
1:F:2224:LEU:HD21	1:I:3419:LYS:CB	2.26	0.50
1:J:3874:ALA:CA	1:J:3879:VAL:HG23	2.42	0.50
1:L:4666:ALA:CA	1:L:4671:VAL:HG23	2.42	0.50
1:M:4990:VAL:HG12	1:M:4991:GLY:N	2.27	0.50
1:M:5062:ALA:HB1	1:M:5076:VAL:HG21	1.93	0.50
1:A:360:ALA:HB1	1:A:374:VAL:HG21	1.93	0.50
1:C:1026:ALA:HA	1:E:1780:SER:HB2	1.92	0.50
1:C:1027:MET:CG	1:E:1778:PHE:HA	2.03	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:1366:ASP:N	1:F:1964:ARG:NH2	2.60	0.50
2:D:1523:ASP:HB3	1:J:3548:ARG:HD3	1.83	0.50
1:E:1809:SER:O	1:E:1810:PHE:C	2.52	0.50
1:E:1894:ALA:HB1	1:E:1908:VAL:HG21	1.93	0.50
1:E:1900:LYS:HD3	1:E:1904:GLU:OE1	2.12	0.50
1:F:1961:ARG:CG	1:F:1961:ARG:HH11	2.25	0.50
1:F:2152:ILE:CG2	1:I:3415:LEU:HD22	2.42	0.50
1:F:2152:ILE:HD13	1:I:3380:GLY:CA	2.41	0.50
1:F:2157:LEU:HD23	1:I:3364:SER:O	2.02	0.50
1:F:2226:LEU:HA	1:I:3377:ILE:CD1	2.42	0.50
1:F:2290:ALA:CA	1:F:2295:VAL:HG23	2.42	0.50
1:H:3010:VAL:HG12	1:H:3011:GLY:N	2.27	0.50
1:I:3386:LEU:HD13	1:I:3400:GLN:HE21	1.76	0.50
1:J:3779:ILE:HD12	1:J:3779:ILE:H	1.76	0.50
1:L:4337:ARG:HH11	1:L:4337:ARG:CG	2.25	0.50
1:M:5076:VAL:C	1:M:5078:ASP:H	2.18	0.50
1:A:36:PHE:CZ	1:B:435:PHE:CZ	2.99	0.50
1:B:430:ARG:HA	1:B:430:ARG:NE	2.24	0.50
1:B:716:SER:C	1:B:718:ILE:N	2.70	0.50
1:C:906:LYS:HD3	1:C:967:GLU:OE2	2.12	0.50
1:C:1057:ILE:HD12	1:E:1834:GLY:N	2.26	0.50
1:E:1725:ILE:O	1:E:1725:ILE:HG12	2.11	0.50
1:F:2231:LYS:HD3	1:I:3386:LEU:CG	2.41	0.50
1:G:2591:ILE:HD12	1:G:2591:ILE:H	1.76	0.50
1:H:2728:ALA:N	1:I:3242:GLY:HA3	2.26	0.50
1:H:2953:LEU:CD2	1:K:4146:LYS:H	2.09	0.50
1:H:3020:ARG:HG2	1:K:4208:ARG:N	2.27	0.50
1:H:3042:SER:C	1:H:3044:ILE:N	2.70	0.50
1:I:3250:ASN:ND2	1:I:3253:GLY:N	2.58	0.50
1:J:3782:LEU:HD13	1:J:3796:GLN:HE21	1.76	0.50
1:J:3802:VAL:HG12	1:J:3803:GLY:N	2.27	0.50
1:J:3880:LYS:HG2	1:J:3884:GLU:OE2	2.12	0.50
1:K:3977:ASN:O	1:K:3981:ASP:HB2	2.11	0.50
1:L:4615:LEU:HD13	1:L:4616:GLN:H	1.77	0.50
1:L:4626:SER:C	1:L:4628:ILE:N	2.70	0.50
1:M:5068:LYS:HD3	1:M:5072:GLU:OE1	2.12	0.50
1:A:265:ILE:HD12	1:A:265:ILE:H	1.76	0.49
1:B:510:LYS:HD3	1:B:571:GLU:OE2	2.12	0.49
1:C:1025:LYS:CB	1:E:1780:SER:C	2.83	0.49
1:C:1158:LYS:HD3	1:C:1162:GLU:OE1	2.12	0.49
2:D:1391:THR:C	1:H:2755:PRO:HG3	2.32	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:1408:THR:N	1:M:4741:PHE:CZ	2.80	0.49
1:E:1658:GLY:HA3	1:G:2332:ALA:N	2.26	0.49
1:F:2028:ASP:CG	1:F:2028:ASP:O	2.54	0.49
1:F:2196:THR:HG1	1:I:3372:ALA:CB	2.20	0.49
1:G:2587:ALA:C	1:M:4940:ASP:HA	2.34	0.49
1:H:2846:GLY:HA3	1:J:3520:ALA:N	2.26	0.49
1:H:2986:VAL:HB	1:K:4208:ARG:NH2	2.26	0.49
1:H:3082:ALA:CA	1:H:3087:VAL:HG23	2.42	0.49
1:A:260:LYS:CG	1:L:4544:ASP:C	2.85	0.49
1:A:361:ASN:ND2	1:A:362:GLN:OE1	2.45	0.49
1:A:366:LYS:HG2	1:A:370:GLU:OE2	2.12	0.49
1:B:432:PHE:CZ	1:C:831:PHE:CZ	2.99	0.49
1:B:626:GLU:O	1:J:3750:LYS:CD	2.61	0.49
1:B:762:LYS:HD3	1:B:766:GLU:OE1	2.12	0.49
1:C:983:ILE:HG12	1:C:983:ILE:O	2.11	0.49
2:D:1325:PHE:N	1:G:2359:PRO:O	2.45	0.49
1:F:1964:ARG:NE	1:F:1964:ARG:HA	2.24	0.49
1:F:2195:ILE:HG13	1:I:3414:LEU:HD13	1.94	0.49
1:G:2626:GLY:N	1:M:5003:LYS:H	2.06	0.49
1:G:2692:LYS:HG2	1:G:2696:GLU:OE2	2.12	0.49
1:H:2789:ASN:O	1:H:2793:ASP:HB2	2.11	0.49
1:H:2953:LEU:C	1:K:4145:MET:HA	2.35	0.49
1:H:2958:LYS:O	1:K:4172:GLY:C	2.49	0.49
1:I:3383:ILE:HD12	1:I:3383:ILE:H	1.76	0.49
1:I:3478:ALA:CA	1:I:3483:VAL:HG23	2.42	0.49
1:K:4024:LYS:HD3	1:K:4085:GLU:OE2	2.12	0.49
1:L:4581:SER:O	1:L:4582:PHE:C	2.52	0.49
1:L:4594:VAL:HG12	1:L:4595:GLY:N	2.27	0.49
1:L:4672:LYS:HG2	1:L:4676:GLU:OE2	2.12	0.49
1:M:5057:ASP:CA	1:M:5090:ARG:HB3	2.41	0.49
1:A:31:ARG:HB2	2:D:1493:TYR:HD1	1.69	0.49
1:A:297:LEU:HA	1:L:4607:LYS:HG3	0.58	0.49
1:E:1565:ARG:HH11	1:E:1565:ARG:CG	2.25	0.49
1:F:2121:ILE:O	1:F:2121:ILE:HG12	2.11	0.49
1:F:2175:VAL:N	1:I:3380:GLY:N	2.34	0.49
1:G:2440:LYS:HD3	1:G:2501:GLU:OE2	2.12	0.49
1:G:2692:LYS:HD3	1:G:2696:GLU:OE1	2.12	0.49
1:H:2756:ARG:NE	1:H:2756:ARG:HA	2.24	0.49
1:H:2953:LEU:HD23	1:K:4145:MET:N	2.27	0.49
1:H:3031:LEU:HD13	1:H:3032:GLN:H	1.77	0.49
1:H:3083:ASN:ND2	1:H:3084:GLN:OE1	2.45	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:3406:VAL:HG12	1:I:3407:GLY:N	2.27	0.49
1:K:4198:VAL:HG12	1:K:4199:GLY:N	2.27	0.49
1:M:4893:ILE:O	1:M:4893:ILE:HG12	2.11	0.49
1:M:5011:LEU:HD13	1:M:5012:GLN:H	1.77	0.49
1:A:34:ARG:HA	1:A:34:ARG:NE	2.24	0.49
1:A:238:ASP:H	1:L:4566:LYS:C	2.20	0.49
1:C:1018:GLU:OE2	1:C:1068:PHE:N	2.46	0.49
1:C:1052:LYS:C	1:E:1831:LEU:CD1	2.81	0.49
1:F:2230:GLY:O	1:I:3386:LEU:HD21	2.12	0.49
1:F:2290:ALA:HB1	1:F:2304:VAL:HG21	1.93	0.49
1:H:2953:LEU:HD21	1:K:4143:LYS:O	2.12	0.49
1:H:3088:LYS:HD3	1:H:3092:GLU:OE1	2.12	0.49
1:H:3088:LYS:HG2	1:H:3092:GLU:OE2	2.13	0.49
1:J:3545:ARG:HH11	1:J:3545:ARG:CG	2.25	0.49
1:J:3875:ASN:ND2	1:J:3876:GLN:OE1	2.45	0.49
1:K:4271:ASN:ND2	1:K:4272:GLN:OE1	2.45	0.49
1:A:33:PRO:HG2	2:D:1204:LYS:HD2	1.93	0.49
1:A:360:ALA:CA	1:A:365:VAL:HG23	2.42	0.49
1:B:463:ASN:O	1:B:467:ASP:HB2	2.11	0.49
1:B:693:LEU:CD1	1:J:3815:LYS:NZ	2.75	0.49
1:C:1152:ALA:HB1	1:C:1166:VAL:HG21	1.93	0.49
1:C:1158:LYS:HG2	1:C:1162:GLU:OE2	2.12	0.49
1:E:1799:ILE:HD12	1:E:1799:ILE:H	1.76	0.49
1:E:1895:ASN:ND2	1:E:1896:GLN:OE1	2.45	0.49
1:F:2192:GLY:CA	1:I:3342:GLY:C	2.86	0.49
1:F:2227:LEU:C	1:I:3338:LEU:HD23	2.37	0.49
1:F:2296:LYS:HD3	1:F:2300:GLU:OE1	2.12	0.49
1:G:2561:MET:SD	1:M:4938:LYS:HA	2.52	0.49
1:G:2588:GLY:CA	1:M:4940:ASP:CA	2.87	0.49
1:K:4136:GLU:OE2	1:K:4186:PHE:N	2.46	0.49
1:K:4175:ILE:HD12	1:K:4175:ILE:H	1.76	0.49
1:L:4574:LEU:HD13	1:L:4588:GLN:HE21	1.76	0.49
1:L:4666:ALA:HB1	1:L:4680:VAL:HG21	1.93	0.49
1:M:5068:LYS:HG2	1:M:5072:GLU:OE2	2.12	0.49
1:B:757:ASN:ND2	1:B:758:GLN:OE1	2.45	0.49
1:C:824:MET:HE2	1:C:826:ARG:CG	2.43	0.49
1:C:1088:LEU:CG	1:E:1834:GLY:O	2.56	0.49
2:D:1214:ASN:N	1:J:3548:ARG:HD3	2.27	0.49
2:D:1437:SER:HA	1:H:2761:PHE:CD1	2.37	0.49
1:F:2150:LEU:HD11	1:I:3418:GLY:HA2	1.95	0.49
1:F:2194:VAL:HG23	1:I:3340:ILE:HB	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:2198:LEU:HD13	1:F:2212:GLN:HE21	1.76	0.49
1:F:2285:ASP:CA	1:F:2318:ARG:HB3	2.42	0.49
1:G:2557:LEU:HB2	1:M:4938:LYS:HZ2	1.76	0.49
1:G:2625:ASP:OD1	1:M:4966:VAL:HB	2.13	0.49
1:H:3019:LEU:HD22	1:K:4208:ARG:CZ	2.40	0.49
1:I:3232:LYS:HD3	1:I:3293:GLU:OE2	2.12	0.49
1:J:3740:GLU:OE2	1:J:3790:PHE:N	2.46	0.49
1:K:4008:ASP:CG	1:K:4008:ASP:O	2.54	0.49
1:K:4276:LYS:HD3	1:K:4280:GLU:OE1	2.12	0.49
1:L:4420:LYS:HD3	1:L:4481:GLU:OE2	2.12	0.49
1:L:4666:ALA:H	1:L:4669:GLN:C	2.18	0.49
1:A:191:ILE:O	1:A:191:ILE:HG12	2.11	0.49
1:A:226:GLU:OE2	1:A:276:PHE:N	2.46	0.49
1:B:435:PHE:O	2:D:1191:VAL:CG2	2.59	0.49
2:D:1210:TYR:O	1:J:3554:PHE:CD1	2.42	0.49
2:D:1364:ASN:O	1:F:1970:PHE:HB2	2.13	0.49
2:D:1505:LYS:CE	1:J:3552:GLN:CD	2.85	0.49
2:D:1506:ILE:CD1	1:K:3941:ARG:HH22	2.22	0.49
1:E:1648:LYS:HD3	1:E:1709:GLU:OE2	2.12	0.49
1:E:1666:ASN:C	1:E:1666:ASN:ND2	2.64	0.49
1:E:1854:SER:C	1:E:1856:ILE:N	2.70	0.49
1:F:2189:ILE:CD1	1:I:3415:LEU:N	2.75	0.49
1:G:2614:VAL:HG12	1:G:2615:GLY:N	2.27	0.49
1:G:2624:ARG:CD	1:M:4999:LEU:CD2	2.88	0.49
1:H:2836:LYS:HD3	1:H:2897:GLU:OE2	2.11	0.49
1:J:3834:SER:C	1:J:3836:ILE:N	2.70	0.49
1:K:4270:ALA:CA	1:K:4275:VAL:HG23	2.42	0.49
1:L:4595:GLY:HA2	1:L:4612:ASN:ND2	2.28	0.49
1:B:428:MET:HE2	1:B:430:ARG:CG	2.43	0.49
1:B:778:LEU:O	1:B:792:LEU:HA	2.13	0.49
1:C:959:GLY:O	1:C:972:ASN:N	2.35	0.49
1:C:1052:LYS:O	1:E:1831:LEU:CG	2.54	0.49
1:C:1174:LEU:O	1:C:1188:LEU:HA	2.13	0.49
2:D:1324:PHE:HE2	1:G:2357:ARG:NH1	2.11	0.49
2:D:1371:SER:HA	1:L:4344:GLN:NE2	2.27	0.49
2:D:1425:GLN:HA	1:L:4345:PHE:CE2	2.48	0.49
1:E:1540:ALA:N	1:F:2054:GLY:HA3	2.26	0.49
1:F:1962:MET:HE2	1:F:1964:ARG:CG	2.43	0.49
1:F:2175:VAL:CA	1:I:3380:GLY:CA	2.91	0.49
1:F:2312:LEU:O	1:F:2326:LEU:HA	2.13	0.49
1:G:2627:LYS:HE2	1:M:4999:LEU:CD1	2.27	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:2686:ALA:CA	1:G:2691:VAL:HG23	2.42	0.49
1:H:2959:VAL:HB	1:K:4208:ARG:NH1	2.27	0.49
1:I:3479:ASN:ND2	1:I:3480:GLN:OE1	2.45	0.49
1:K:3942:MET:HE2	1:K:3944:ARG:CG	2.43	0.49
1:K:4034:GLY:HA3	1:M:4708:ALA:N	2.26	0.49
1:C:1081:GLY:HA2	1:C:1098:ASN:ND2	2.28	0.49
1:C:1153:ASN:O	1:C:1154:GLN:HB3	2.13	0.49
2:D:1322:THR:N	1:G:2361:ASN:HB2	2.28	0.49
2:D:1363:GLN:CD	1:H:2755:PRO:CB	2.84	0.49
2:D:1483:LEU:HB3	1:K:3949:PHE:CD1	2.48	0.49
1:F:2097:GLY:O	1:F:2110:ASN:N	2.35	0.49
1:F:2291:ASN:O	1:F:2292:GLN:HB3	2.13	0.49
1:I:3484:LYS:HD3	1:I:3488:GLU:OE1	2.12	0.49
1:L:4667:ASN:ND2	1:L:4668:GLN:OE1	2.45	0.49
1:M:4928:GLU:OE2	1:M:4978:PHE:N	2.46	0.49
1:A:288:VAL:HG12	1:A:289:GLY:N	2.27	0.49
1:A:301:LYS:HG2	1:L:4607:LYS:O	2.12	0.49
1:B:664:LEU:HD13	1:B:678:GLN:HE21	1.76	0.49
1:C:823:ARG:HH11	1:C:823:ARG:CG	2.25	0.49
1:C:1057:ILE:HD11	1:E:1833:ASP:O	2.13	0.49
1:C:1147:ASP:CA	1:C:1180:ARG:HB3	2.42	0.49
1:C:1153:ASN:ND2	1:C:1154:GLN:OE1	2.45	0.49
2:D:1260:TRP:CG	1:I:3153:ASN:C	2.80	0.49
1:F:2296:LYS:HG2	1:F:2300:GLU:OE2	2.12	0.49
1:G:2686:ALA:HB1	1:G:2700:VAL:HG21	1.93	0.49
1:G:2708:LEU:O	1:G:2722:LEU:HA	2.13	0.49
1:H:2948:GLU:OE2	1:H:2998:PHE:N	2.46	0.49
1:I:3149:ARG:HH11	1:I:3149:ARG:CG	2.25	0.49
1:I:3479:ASN:O	1:I:3480:GLN:HB3	2.13	0.49
1:J:3880:LYS:HD3	1:J:3884:GLU:OE1	2.12	0.49
1:K:4042:ASN:C	1:K:4042:ASN:ND2	2.64	0.49
1:K:4230:SER:C	1:K:4232:ILE:H	2.21	0.49
1:L:4338:MET:HE2	1:L:4340:ARG:CG	2.43	0.49
1:A:98:ASP:CG	1:A:98:ASP:O	2.54	0.48
1:A:131:GLY:C	1:A:133:PRO:HD3	2.39	0.48
1:A:298:ARG:CA	1:L:4604:ARG:HB2	2.20	0.48
2:D:1315:GLY:HA3	1:E:1570:PHE:HZ	1.72	0.48
2:D:1319:TYR:C	1:G:2364:GLN:CA	2.54	0.48
2:D:1321:ASN:O	1:G:2364:GLN:OE1	2.31	0.48
2:D:1388:SER:OG	1:F:1968:GLN:OE1	2.27	0.48
2:D:1439:GLY:C	1:M:4735:PRO:HD2	2.34	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1900:LYS:HG2	1:E:1904:GLU:OE2	2.12	0.48
1:F:2153:MET:HE3	1:I:3354:LYS:HB3	1.93	0.48
1:F:2171:ARG:NH2	1:I:3372:ALA:N	2.61	0.48
1:F:2193:ASP:OD1	1:I:3397:LEU:CD1	2.61	0.48
1:G:2557:LEU:CB	1:M:4938:LYS:CD	2.89	0.48
1:G:2564:ASP:OD1	1:M:4947:VAL:O	2.31	0.48
1:G:2646:SER:C	1:G:2648:ILE:H	2.22	0.48
1:H:3020:ARG:HD3	1:K:4209:ASP:O	2.12	0.48
1:I:3500:LEU:O	1:I:3514:LEU:HA	2.13	0.48
1:M:4733:ARG:HH11	1:M:4733:ARG:CG	2.25	0.48
1:M:5084:LEU:O	1:M:5098:LEU:HA	2.13	0.48
1:A:31:ARG:CG	1:A:31:ARG:HH11	2.25	0.48
1:A:320:SER:C	1:A:322:ILE:N	2.70	0.48
2:D:1435:VAL:HB	1:M:4735:PRO:HB2	1.94	0.48
1:E:1666:ASN:ND2	1:E:1669:GLY:N	2.58	0.48
1:E:1822:VAL:HG12	1:E:1823:GLY:N	2.27	0.48
1:F:2189:ILE:CD1	1:I:3415:LEU:CB	2.85	0.48
1:F:2196:THR:CB	1:I:3377:ILE:HD12	2.43	0.48
1:F:2198:LEU:HD23	1:I:3419:LYS:HB3	1.94	0.48
1:F:2218:VAL:HG12	1:F:2219:GLY:N	2.27	0.48
1:F:2291:ASN:ND2	1:F:2292:GLN:OE1	2.45	0.48
1:J:3896:LEU:O	1:J:3910:LEU:HA	2.13	0.48
1:K:4292:LEU:O	1:K:4306:LEU:HA	2.13	0.48
1:M:5022:SER:C	1:M:5024:ILE:N	2.70	0.48
1:M:5063:ASN:O	1:M:5064:GLN:HB3	2.13	0.48
1:A:289:GLY:HA2	1:A:306:ASN:ND2	2.28	0.48
1:A:366:LYS:HD3	1:A:370:GLU:OE1	2.12	0.48
1:B:711:ASN:ND2	1:B:764:ILE:CD1	2.77	0.48
1:B:751:ASP:CG	1:B:784:ARG:HB3	2.38	0.48
1:C:1090:ARG:NH1	1:E:1800:THR:CB	2.55	0.48
2:D:1221:GLN:HE21	1:J:3554:PHE:HD2	1.61	0.48
2:D:1340:LYS:HG3	1:F:1970:PHE:CB	2.43	0.48
2:D:1388:SER:C	1:F:1963:PRO:O	2.56	0.48
2:D:1410:THR:OG1	1:L:4343:GLN:HB2	2.12	0.48
2:D:1442:ASN:O	1:M:4742:PHE:N	2.40	0.48
1:E:1665:GLY:C	1:E:1667:PRO:HD3	2.39	0.48
1:E:1889:ASP:CG	1:E:1922:ARG:HB3	2.39	0.48
1:E:1895:ASN:O	1:E:1896:GLN:HB3	2.13	0.48
1:F:2062:ASN:C	1:F:2062:ASN:ND2	2.64	0.48
1:F:2178:VAL:CB	1:I:3345:LEU:CD2	2.91	0.48
1:F:2195:ILE:HG13	1:I:3414:LEU:CD1	2.43	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:2205:SER:C	1:I:3378:LYS:HB3	2.38	0.48
1:F:2226:LEU:CD2	1:I:3383:ILE:N	2.75	0.48
1:F:2228:ARG:CG	1:I:3394:PHE:CE1	2.96	0.48
1:F:2237:LEU:HD23	1:I:3417:ASP:HB2	1.91	0.48
1:G:2558:ALA:HA	1:M:4938:LYS:HG3	1.95	0.48
1:G:2588:GLY:HA2	1:M:4938:LYS:C	2.38	0.48
1:H:2956:ALA:O	1:K:4154:PHE:CZ	2.66	0.48
1:J:3681:GLY:O	1:J:3694:ASN:N	2.35	0.48
1:A:34:ARG:O	2:D:1533:GLN:CB	2.61	0.48
1:A:34:ARG:CB	2:D:1497:ASN:HD22	2.26	0.48
1:A:34:ARG:HA	2:D:1496:LYS:O	2.13	0.48
1:C:1053:ALA:CB	1:E:1772:ASP:C	2.86	0.48
2:D:1246:TYR:H	1:I:3151:PRO:HD2	1.78	0.48
2:D:1368:VAL:HG12	1:F:1965:ASN:N	2.26	0.48
2:D:1432:ALA:C	1:M:4740:GLN:NE2	2.72	0.48
1:G:2625:ASP:OD1	1:M:4966:VAL:N	2.47	0.48
1:H:3077:ASP:CG	1:H:3110:ARG:HB3	2.39	0.48
1:I:3249:GLY:C	1:I:3251:PRO:HD3	2.39	0.48
1:I:3344:GLU:OE2	1:I:3394:PHE:N	2.46	0.48
1:I:3473:ASP:CG	1:I:3506:ARG:HB3	2.38	0.48
1:I:3484:LYS:HG2	1:I:3488:GLU:OE2	2.12	0.48
1:J:3869:ASP:CG	1:J:3902:ARG:HB3	2.39	0.48
1:K:4041:GLY:C	1:K:4043:PRO:HD3	2.39	0.48
1:L:4626:SER:C	1:L:4628:ILE:H	2.22	0.48
1:M:5057:ASP:CG	1:M:5090:ARG:HB3	2.38	0.48
1:B:622:GLU:OE2	1:B:672:PHE:N	2.46	0.48
1:B:632:LYS:HD3	1:J:3758:PHE:CZ	2.49	0.48
1:B:685:GLY:HA2	1:B:702:ASN:ND2	2.28	0.48
1:B:762:LYS:HG2	1:B:766:GLU:OE2	2.12	0.48
2:D:1246:TYR:CG	1:I:3152:ARG:HA	2.36	0.48
1:E:1566:MET:O	1:I:3149:ARG:NE	2.46	0.48
1:F:2177:GLN:C	1:I:3345:LEU:CD2	2.86	0.48
1:G:2624:ARG:HH21	1:M:4943:ARG:HE	1.60	0.48
1:G:2681:ASP:CA	1:G:2714:ARG:HB3	2.41	0.48
1:I:3427:LEU:HD13	1:I:3428:GLN:H	1.77	0.48
1:K:4137:LEU:HD13	1:K:4150:GLN:HA	1.96	0.48
1:K:4230:SER:C	1:K:4232:ILE:N	2.70	0.48
1:K:4271:ASN:O	1:K:4272:GLN:HB3	2.13	0.48
1:L:4667:ASN:O	1:L:4668:GLN:HB3	2.13	0.48
1:L:4672:LYS:HD3	1:L:4676:GLU:OE1	2.12	0.48
1:M:5063:ASN:ND2	1:M:5064:GLN:OE1	2.45	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1034:GLY:O	1:E:1832:ARG:NH2	2.44	0.48
2:D:1409:TYR:CD2	1:M:4741:PHE:CE1	3.01	0.48
2:D:1447:PHE:CD1	1:K:3946:PHE:C	2.84	0.48
2:D:1462:SER:HA	1:K:3942:MET:HB3	1.95	0.48
1:F:2156:GLU:OE2	1:F:2206:PHE:N	2.46	0.48
1:F:2232:GLN:HE21	1:I:3412:LEU:CD1	2.13	0.48
1:G:2626:GLY:HA3	1:M:5003:LYS:CG	2.42	0.48
1:I:3375:ALA:HB3	1:I:3423:VAL:HG11	1.93	0.48
1:L:4551:VAL:HG23	1:L:4569:ASP:O	2.14	0.48
1:L:4688:LEU:O	1:L:4702:LEU:HA	2.13	0.48
1:M:4833:GLY:C	1:M:4835:PRO:HD3	2.39	0.48
1:M:5024:ILE:CG2	1:M:5025:PHE:N	2.67	0.48
1:A:32:MET:HG3	1:A:33:PRO:HA	1.96	0.48
1:B:428:MET:HG3	1:B:429:PRO:HA	1.96	0.48
1:B:641:VAL:HG23	1:B:659:ASP:O	2.14	0.48
1:B:757:ASN:O	1:B:758:GLN:HB3	2.13	0.48
1:C:1101:LEU:HD13	1:C:1102:GLN:H	1.77	0.48
2:D:1298:PHE:CD1	1:J:3552:GLN:OE1	2.67	0.48
2:D:1394:GLN:HG3	1:H:2755:PRO:CG	2.44	0.48
2:D:1444:ALA:HB1	1:M:4738:PHE:CG	2.48	0.48
1:E:1916:LEU:O	1:E:1930:LEU:HA	2.13	0.48
1:F:2157:LEU:HD13	1:F:2170:GLN:HA	1.96	0.48
1:F:2250:SER:C	1:F:2252:ILE:N	2.70	0.48
1:G:2357:ARG:CG	1:G:2357:ARG:HH11	2.25	0.48
1:G:2687:ASN:O	1:G:2688:GLN:HB3	2.13	0.48
1:H:2967:VAL:HG23	1:H:2985:ASP:O	2.14	0.48
1:H:3104:LEU:O	1:H:3118:LEU:HA	2.13	0.48
1:L:4338:MET:HG3	1:L:4339:PRO:HA	1.96	0.48
1:L:4402:ARG:HG3	1:L:4523:ARG:NH1	2.29	0.48
1:M:5062:ALA:C	1:M:5064:GLN:N	2.67	0.48
1:A:296:LEU:CB	1:L:4606:GLY:N	2.77	0.48
1:A:297:LEU:N	1:L:4605:ASP:OD2	2.46	0.48
1:A:361:ASN:O	1:A:362:GLN:HB3	2.13	0.48
1:B:527:GLY:C	1:B:529:PRO:HD3	2.39	0.48
1:B:684:VAL:HG12	1:B:685:GLY:N	2.27	0.48
1:C:1107:ASN:ND2	1:C:1160:ILE:CD1	2.77	0.48
2:D:1371:SER:HA	1:L:4344:GLN:HE22	1.77	0.48
2:D:1385:ILE:HB	1:L:4341:ASN:HA	1.96	0.48
2:D:1433:THR:HG21	1:M:4739:GLN:HG2	1.05	0.48
2:D:1448:GLU:HB2	1:K:3947:GLN:CG	2.43	0.48
1:F:2169:ALA:HB2	1:I:3339:GLY:CA	2.38	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:2196:THR:CG2	1:I:3376:GLY:H	2.14	0.48
1:H:2754:MET:HE2	1:H:2756:ARG:CG	2.43	0.48
1:H:3083:ASN:O	1:H:3084:GLN:HB3	2.13	0.48
1:J:3875:ASN:O	1:J:3876:GLN:HB3	2.13	0.48
1:K:4167:ALA:HB3	1:K:4215:VAL:HG11	1.93	0.48
1:K:4276:LYS:HG2	1:K:4280:GLU:OE2	2.13	0.48
1:M:5062:ALA:H	1:M:5065:GLN:C	2.18	0.48
1:A:31:ARG:O	1:A:34:ARG:NH1	2.47	0.48
1:A:298:ARG:HB3	1:L:4602:LEU:HB3	1.96	0.48
1:A:382:LEU:O	1:A:396:LEU:HA	2.13	0.48
1:C:923:GLY:C	1:C:925:PRO:HD3	2.39	0.48
1:C:1039:GLN:CB	1:E:1772:ASP:OD1	2.58	0.48
1:C:1112:SER:C	1:C:1114:ILE:H	2.22	0.48
2:D:1429:THR:O	1:M:4740:GLN:N	2.46	0.48
1:E:1566:MET:HG3	1:E:1567:PRO:HA	1.96	0.48
1:E:1779:VAL:HG23	1:E:1797:ASP:O	2.14	0.48
1:E:1823:GLY:HA2	1:E:1840:ASN:ND2	2.28	0.48
1:F:2175:VAL:CB	1:I:3380:GLY:O	2.61	0.48
1:G:2561:MET:HE2	1:M:4938:LYS:CE	1.94	0.48
1:G:2615:GLY:HA2	1:G:2632:ASN:ND2	2.28	0.48
1:G:2646:SER:C	1:G:2648:ILE:N	2.70	0.48
1:H:2960:ASP:OD1	1:K:4170:LYS:CB	2.60	0.48
1:I:3433:ASN:ND2	1:I:3486:ILE:CD1	2.77	0.48
1:M:4733:ARG:O	1:M:4736:ARG:NH1	2.47	0.48
1:B:433:GLN:NE2	2:D:1239:THR:HG21	2.28	0.48
1:B:705:LEU:HD13	1:B:706:GLN:H	1.77	0.48
1:C:824:MET:HG3	1:C:825:PRO:HA	1.96	0.48
1:C:1152:ALA:H	1:C:1155:GLN:C	2.18	0.48
2:D:1265:PHE:CB	1:E:1571:GLN:C	2.82	0.48
2:D:1320:ARG:CA	1:G:2364:GLN:CA	2.89	0.48
2:D:1523:ASP:HB2	1:J:3548:ARG:HD2	0.48	0.48
1:E:1565:ARG:O	1:E:1568:ARG:NH1	2.47	0.48
1:F:2150:LEU:CB	1:I:3415:LEU:HD23	2.44	0.48
1:F:2152:ILE:HB	1:I:3382:VAL:HG23	1.96	0.48
1:F:2231:LYS:CE	1:I:3401:VAL:HG13	2.43	0.48
1:G:2589:ASP:OD1	1:M:4940:ASP:HB3	1.67	0.48
1:G:2687:ASN:ND2	1:G:2688:GLN:OE1	2.45	0.48
1:J:3741:LEU:HD13	1:J:3754:GLN:HA	1.96	0.48
1:K:4155:VAL:HG23	1:K:4173:ASP:O	2.14	0.48
1:L:4437:GLY:C	1:L:4439:PRO:HD3	2.39	0.48
1:L:4438:ASN:ND2	1:L:4441:GLY:N	2.58	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:4661:ASP:CG	1:L:4694:ARG:HB3	2.38	0.48
1:M:5017:ASN:ND2	1:M:5070:ILE:CD1	2.77	0.48
1:A:309:LEU:HD13	1:A:310:GLN:H	1.77	0.47
1:B:434:GLN:CB	2:D:1230:GLY:HA2	2.39	0.47
1:C:888:ARG:HG3	1:C:1009:ARG:NH1	2.29	0.47
1:C:1049:ALA:HB3	1:C:1097:VAL:HG11	1.93	0.47
2:D:1246:TYR:CE2	1:I:3152:ARG:HA	2.33	0.47
2:D:1265:PHE:HB3	1:E:1571:GLN:HG3	1.95	0.47
2:D:1302:THR:HB	1:K:3949:PHE:CZ	2.49	0.47
1:E:1605:ASP:O	1:E:1606:ASN:HB2	2.14	0.47
1:E:1754:LEU:O	1:E:1788:ALA:HB2	2.14	0.47
1:E:1854:SER:C	1:E:1856:ILE:H	2.21	0.47
1:F:2198:LEU:HD23	1:I:3419:LYS:CB	2.43	0.47
1:F:2224:LEU:HB2	1:I:3414:LEU:HD12	1.96	0.47
1:F:2225:GLY:HA2	1:I:3412:LEU:HD13	1.96	0.47
1:F:2239:LEU:HD13	1:F:2240:GLN:H	1.77	0.47
1:F:2250:SER:C	1:F:2252:ILE:H	2.22	0.47
1:F:2262:ASP:OD2	1:F:2296:LYS:HE2	2.14	0.47
1:G:2681:ASP:CG	1:G:2714:ARG:HB3	2.38	0.47
1:I:3214:ARG:HG3	1:I:3335:ARG:NH1	2.29	0.47
1:I:3480:GLN:HG2	1:I:3481:GLN:H	1.80	0.47
1:J:3834:SER:C	1:J:3836:ILE:H	2.22	0.47
1:J:3846:ASP:OD2	1:J:3880:LYS:HE2	2.14	0.47
1:L:4661:ASP:CA	1:L:4694:ARG:HB3	2.42	0.47
1:M:5022:SER:C	1:M:5024:ILE:H	2.22	0.47
1:A:234:ALA:O	1:L:4541:MET:CE	2.50	0.47
1:B:427:ARG:HH11	1:B:427:ARG:CG	2.25	0.47
1:B:728:ASP:OD2	1:B:762:LYS:HE2	2.14	0.47
1:C:1012:LEU:O	1:C:1046:ALA:HB2	2.14	0.47
1:C:1027:MET:SD	1:E:1761:LEU:HD21	2.54	0.47
1:C:1055:ASP:O	1:E:1832:ARG:C	2.49	0.47
2:D:1408:THR:N	1:M:4741:PHE:CE1	2.81	0.47
2:D:1409:TYR:N	1:M:4741:PHE:HZ	2.12	0.47
1:E:1866:ASP:OD2	1:E:1900:LYS:HE2	2.14	0.47
1:F:2153:MET:HE3	1:I:3354:LYS:CB	2.39	0.47
1:F:2178:VAL:C	1:I:3358:GLN:CA	2.81	0.47
1:F:2228:ARG:CB	1:I:3397:LEU:CB	2.89	0.47
1:F:2233:VAL:CG2	1:I:3413:GLY:O	2.62	0.47
1:G:2358:MET:HG3	1:G:2359:PRO:HA	1.96	0.47
1:G:2583:ALA:HB3	1:G:2631:VAL:HG11	1.93	0.47
1:G:2624:ARG:NE	1:M:4943:ARG:NH2	2.62	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:3042:SER:C	1:H:3044:ILE:H	2.22	0.47
1:I:3150:MET:HG3	1:I:3151:PRO:HA	1.96	0.47
1:I:3216:ASP:CG	1:I:3216:ASP:O	2.54	0.47
1:L:4340:ARG:HA	1:L:4340:ARG:NE	2.24	0.47
1:L:4377:ASP:O	1:L:4378:ASN:HB2	2.14	0.47
1:L:4638:ASP:OD2	1:L:4672:LYS:HE2	2.14	0.47
1:M:4798:ARG:HG3	1:M:4919:ARG:NH1	2.29	0.47
1:M:4991:GLY:HA2	1:M:5008:ASN:ND2	2.28	0.47
1:A:34:ARG:N	2:D:1497:ASN:O	2.47	0.47
1:A:227:LEU:HD13	1:A:240:GLN:HA	1.96	0.47
1:A:332:ASP:OD2	1:A:366:LYS:HE2	2.14	0.47
1:B:616:LEU:O	1:B:650:ALA:HB2	2.15	0.47
1:C:1151:GLY:HA2	1:C:1155:GLN:O	2.15	0.47
2:D:1440:TRP:CG	1:M:4740:GLN:HE22	2.32	0.47
2:D:1446:ASN:CG	1:M:4739:GLN:CB	2.73	0.47
1:E:1566:MET:HE2	1:E:1568:ARG:CG	2.43	0.47
1:F:2026:ARG:HG3	1:F:2147:ARG:NH1	2.29	0.47
1:F:2061:GLY:C	1:F:2063:PRO:HD3	2.39	0.47
1:G:2564:ASP:CG	1:M:4946:PHE:HE2	2.21	0.47
1:G:2658:ASP:OD2	1:G:2692:LYS:HE2	2.14	0.47
1:H:2958:LYS:HB3	1:K:4171:ALA:CA	2.44	0.47
1:J:3549:ASN:HB3	1:J:3552:GLN:HB3	1.96	0.47
1:J:3610:ARG:HG3	1:J:3731:ARG:NH1	2.29	0.47
1:K:4225:ASN:ND2	1:K:4278:ILE:CD1	2.77	0.47
1:K:4265:ASP:CA	1:K:4298:ARG:HB3	2.42	0.47
1:L:4509:LYS:O	1:L:4512:THR:HG22	2.15	0.47
1:L:4533:LEU:HD13	1:L:4546:GLN:HA	1.96	0.47
1:M:4737:ASN:HB3	1:M:4740:GLN:HB3	1.96	0.47
1:M:4905:LYS:O	1:M:4908:THR:HG22	2.15	0.47
1:M:4922:LEU:O	1:M:4956:ALA:HB2	2.14	0.47
1:A:35:ASN:HB3	1:A:38:GLN:HB3	1.96	0.47
1:A:245:VAL:HG23	1:A:263:ASP:O	2.14	0.47
1:A:301:LYS:HZ3	1:L:4602:LEU:H	1.62	0.47
1:A:355:ASP:CG	1:A:388:ARG:HB3	2.39	0.47
1:A:355:ASP:CA	1:A:388:ARG:HB3	2.41	0.47
1:B:626:GLU:O	1:J:3750:LYS:HD3	2.15	0.47
1:C:1019:LEU:HD13	1:C:1032:GLN:HA	1.96	0.47
1:C:1089:LEU:CG	1:E:1837:VAL:HG22	2.45	0.47
1:C:1090:ARG:NH1	1:E:1800:THR:N	2.60	0.47
1:C:1147:ASP:CG	1:C:1180:ARG:HB3	2.38	0.47
1:F:2153:MET:N	1:I:3355:VAL:CA	2.72	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:2192:GLY:HA3	1:I:3342:GLY:C	2.36	0.47
1:F:2285:ASP:CG	1:F:2318:ARG:HB3	2.38	0.47
1:G:2571:VAL:HG23	1:G:2589:ASP:O	2.14	0.47
1:J:3545:ARG:O	1:J:3548:ARG:NH1	2.47	0.47
1:J:3645:GLY:C	1:J:3647:PRO:HD3	2.38	0.47
1:J:3771:ALA:HB3	1:J:3819:VAL:HG11	1.93	0.47
1:K:3944:ARG:NE	1:K:3944:ARG:HA	2.24	0.47
1:K:3945:ASN:HB3	1:K:3948:GLN:HB3	1.96	0.47
1:K:4265:ASP:CG	1:K:4298:ARG:HB3	2.39	0.47
1:A:220:LEU:O	1:A:254:ALA:HB2	2.15	0.47
1:A:297:LEU:CD2	1:L:4604:ARG:HD3	2.43	0.47
1:B:755:GLY:HA2	1:B:759:GLN:O	2.15	0.47
2:D:1472:ASN:O	1:M:4736:ARG:CZ	2.62	0.47
2:D:1486:VAL:CG1	1:K:3941:ARG:HG3	2.35	0.47
1:E:1761:LEU:HD13	1:E:1774:GLN:HA	1.96	0.47
1:F:2289:GLY:HA2	1:F:2293:GLN:O	2.15	0.47
1:G:2529:LYS:O	1:G:2532:THR:HG22	2.15	0.47
1:G:2552:GLU:OE2	1:G:2602:PHE:N	2.46	0.47
1:H:2942:LEU:O	1:H:2976:ALA:HB2	2.14	0.47
1:I:3321:LYS:O	1:I:3324:THR:HG22	2.15	0.47
1:I:3477:GLY:HA2	1:I:3481:GLN:O	2.15	0.47
1:J:3874:ALA:H	1:J:3877:GLN:C	2.18	0.47
1:K:4006:ARG:HG3	1:K:4127:ARG:NH1	2.29	0.47
1:A:35:ASN:HB2	2:D:1533:GLN:NE2	2.30	0.47
1:A:71:ASP:O	1:A:72:ASN:HB2	2.14	0.47
1:B:528:ASN:C	1:B:528:ASN:ND2	2.64	0.47
2:D:1402:ASN:CG	1:M:4733:ARG:HD2	2.39	0.47
1:E:1760:GLU:OE2	1:E:1810:PHE:N	2.46	0.47
1:F:2001:ASP:O	1:F:2002:ASN:HB2	2.14	0.47
1:G:2457:GLY:C	1:G:2459:PRO:HD3	2.38	0.47
1:H:2853:GLY:C	1:H:2855:PRO:HD3	2.39	0.47
1:I:3363:VAL:HG23	1:I:3381:ASP:O	2.14	0.47
1:M:5034:ASP:OD2	1:M:5068:LYS:HE2	2.14	0.47
1:A:104:ILE:HD12	1:A:110:LEU:HD21	1.97	0.47
1:A:203:LYS:O	1:A:206:THR:HG22	2.15	0.47
1:A:257:ALA:HB3	1:A:305:VAL:HG11	1.93	0.47
1:B:492:ARG:HG3	1:B:613:ARG:NH1	2.29	0.47
1:B:599:LYS:O	1:B:602:THR:HG22	2.15	0.47
1:B:623:LEU:HD13	1:B:636:GLN:HA	1.96	0.47
1:B:653:ALA:HB1	1:B:701:VAL:HG12	1.96	0.47
1:B:653:ALA:HB3	1:B:701:VAL:HG11	1.93	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:688:LEU:HD23	1:B:688:LEU:N	2.30	0.47
1:C:1124:ASP:OD2	1:C:1158:LYS:HE2	2.14	0.47
1:C:1154:GLN:HG2	1:C:1155:GLN:H	1.80	0.47
2:D:1272:ASP:OD1	1:G:2359:PRO:HG3	2.14	0.47
2:D:1333:PHE:CE1	1:G:2364:GLN:HG3	2.33	0.47
2:D:1366:ASP:N	1:F:1964:ARG:HH22	2.13	0.47
2:D:1367:GLY:O	1:F:1968:GLN:N	2.48	0.47
2:D:1385:ILE:HA	1:L:4343:GLN:CG	2.45	0.47
2:D:1425:GLN:CB	1:L:4345:PHE:CZ	2.97	0.47
1:F:2180:PRO:HD3	1:I:3358:GLN:NE2	2.21	0.47
1:F:2194:VAL:CG1	1:I:3365:GLN:C	2.88	0.47
1:F:2219:GLY:HA2	1:F:2236:ASN:ND2	2.28	0.47
1:F:2226:LEU:HA	1:I:3377:ILE:HD11	1.97	0.47
1:F:2228:ARG:NH1	1:I:3394:PHE:CD2	2.82	0.47
1:F:2265:VAL:HG11	1:F:2298:ILE:HG12	1.97	0.47
1:G:2358:MET:HE2	1:G:2360:ARG:CG	2.43	0.47
1:G:2422:ARG:HG3	1:G:2543:ARG:NH1	2.29	0.47
1:G:2546:LEU:O	1:G:2580:ALA:HB2	2.14	0.47
1:H:2818:ARG:HG3	1:H:2939:ARG:NH1	2.29	0.47
1:H:2925:LYS:O	1:H:2928:THR:HG22	2.15	0.47
1:H:2958:LYS:CD	1:K:4155:VAL:O	2.62	0.47
1:H:3011:GLY:HA2	1:H:3028:ASN:ND2	2.28	0.47
1:H:3011:GLY:O	1:H:3028:ASN:ND2	2.48	0.47
1:H:3071:ILE:O	1:H:3117:LEU:HG	2.15	0.47
1:I:3189:ASP:O	1:I:3190:ASN:HB2	2.14	0.47
1:I:3338:LEU:O	1:I:3372:ALA:HB2	2.15	0.47
1:I:3467:ILE:O	1:I:3513:LEU:HG	2.15	0.47
1:J:3717:LYS:O	1:J:3720:THR:HG22	2.15	0.47
1:J:3873:GLY:HA2	1:J:3877:GLN:O	2.15	0.47
1:K:4199:GLY:HA2	1:K:4216:ASN:ND2	2.28	0.47
1:L:4598:LEU:HD23	1:L:4598:LEU:N	2.30	0.47
1:M:4734:MET:HG3	1:M:4735:PRO:HA	1.96	0.47
1:M:4947:VAL:HG23	1:M:4965:ASP:O	2.14	0.47
1:M:5037:VAL:HG11	1:M:5070:ILE:HG12	1.97	0.47
1:M:5061:GLY:HA2	1:M:5065:GLN:O	2.15	0.47
1:C:1036:PHE:CE1	1:E:1796:GLY:C	2.93	0.47
2:D:1259:SER:HB2	1:I:3152:ARG:HE	1.80	0.47
2:D:1272:ASP:O	1:G:2358:MET:CG	2.56	0.47
1:E:1889:ASP:CA	1:E:1922:ARG:HB3	2.42	0.47
1:F:1961:ARG:O	1:F:1964:ARG:NH1	2.47	0.47
1:F:2133:LYS:O	1:F:2136:THR:HG22	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:2177:GLN:C	1:I:3345:LEU:HD22	2.24	0.47
1:G:2553:LEU:HD13	1:G:2566:GLN:HA	1.96	0.47
1:G:2685:GLY:HA2	1:G:2689:GLN:O	2.15	0.47
1:G:2688:GLN:HG2	1:G:2689:GLN:H	1.80	0.47
1:I:3410:LEU:HD23	1:I:3410:LEU:N	2.30	0.47
1:I:3450:ASP:OD2	1:I:3484:LYS:HE2	2.14	0.47
1:J:3759:VAL:HG23	1:J:3777:ASP:O	2.14	0.47
1:J:3803:GLY:HA2	1:J:3820:ASN:ND2	2.28	0.47
1:J:3829:ASN:ND2	1:J:3882:ILE:CD1	2.77	0.47
1:K:4113:LYS:O	1:K:4116:THR:HG22	2.15	0.47
1:L:4337:ARG:O	1:L:4340:ARG:NH1	2.47	0.47
1:L:4526:LEU:O	1:L:4560:ALA:HB2	2.15	0.47
1:A:31:ARG:CA	2:D:1492:TYR:O	2.63	0.47
1:A:96:ARG:HG3	1:A:217:ARG:NH1	2.29	0.47
1:B:431:ASN:HB3	1:B:434:GLN:HB3	1.96	0.47
1:B:745:ILE:O	1:B:791:LEU:HG	2.15	0.47
1:C:823:ARG:O	1:C:826:ARG:NH1	2.47	0.47
1:C:1055:ASP:HA	1:C:1089:LEU:O	2.15	0.47
1:C:1112:SER:C	1:C:1114:ILE:N	2.70	0.47
1:C:1127:VAL:HG11	1:C:1160:ILE:HG12	1.97	0.47
2:D:1354:THR:CG2	1:F:1971:GLY:CA	2.93	0.47
2:D:1508:LEU:N	1:K:3951:GLY:HA2	2.28	0.47
2:D:1523:ASP:HB3	1:J:3546:MET:HE2	0.95	0.47
1:E:1737:LYS:O	1:E:1740:THR:HG22	2.15	0.47
1:I:3381:ASP:HA	1:I:3415:LEU:O	2.15	0.47
1:I:3385:SER:HA	1:I:3391:ILE:HG12	1.97	0.47
1:I:3438:SER:C	1:I:3440:ILE:H	2.22	0.47
1:J:3734:LEU:O	1:J:3768:ALA:HB2	2.14	0.47
1:K:4177:SER:HA	1:K:4183:ILE:HG12	1.97	0.47
1:L:4341:ASN:HB3	1:L:4344:GLN:HB3	1.96	0.47
1:L:4665:GLY:HA2	1:L:4669:GLN:O	2.15	0.47
1:A:267:SER:HA	1:A:273:ILE:HG12	1.97	0.47
1:A:298:ARG:O	1:L:4602:LEU:HB3	2.11	0.47
1:B:630:ALA:CB	1:J:3750:LYS:CE	1.79	0.47
1:B:716:SER:C	1:B:718:ILE:H	2.22	0.47
1:C:995:LYS:O	1:C:998:THR:HG22	2.15	0.47
1:E:1883:ILE:O	1:E:1929:LEU:HG	2.15	0.47
1:E:1893:GLY:HA2	1:E:1897:GLN:O	2.15	0.47
1:F:2034:ILE:HD12	1:F:2040:LEU:HD21	1.97	0.47
1:G:2397:ASP:O	1:G:2398:ASN:HB2	2.14	0.47
1:G:2583:ALA:HB1	1:G:2631:VAL:HG12	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:2589:ASP:HA	1:G:2623:LEU:O	2.15	0.47
1:K:3941:ARG:O	1:K:3944:ARG:NH1	2.47	0.47
1:K:4058:LEU:HD12	1:K:4058:LEU:HA	1.81	0.47
1:K:4269:GLY:HA2	1:K:4273:GLN:O	2.15	0.47
1:M:4965:ASP:HA	1:M:4999:LEU:O	2.15	0.47
1:B:467:ASP:O	1:B:468:ASN:HB2	2.14	0.46
1:B:731:VAL:HG11	1:B:764:ILE:HG12	1.97	0.46
1:C:1036:PHE:HB3	1:E:1832:ARG:HH11	1.73	0.46
2:D:1276:PHE:O	1:G:2362:PHE:HZ	1.92	0.46
2:D:1320:ARG:HD2	1:G:2363:GLN:CD	2.41	0.46
2:D:1448:GLU:HB3	1:K:3945:ASN:CB	2.42	0.46
1:F:2222:LEU:HD23	1:F:2222:LEU:N	2.30	0.46
1:H:2753:ARG:O	1:H:2756:ARG:NH1	2.47	0.46
1:H:3037:ASN:ND2	1:H:3090:ILE:CD1	2.77	0.46
1:H:3054:ASP:OD2	1:H:3088:LYS:HE2	2.14	0.46
1:H:3084:GLN:HG2	1:H:3085:GLN:H	1.80	0.46
1:I:3145:VAL:HG11	1:I:3163:GLN:NE2	2.31	0.46
1:I:3407:GLY:HA2	1:I:3424:ASN:ND2	2.28	0.46
1:J:3777:ASP:HA	1:J:3811:LEU:O	2.15	0.46
1:K:4173:ASP:HA	1:K:4207:LEU:O	2.15	0.46
1:L:4410:ILE:HD12	1:L:4416:LEU:HD21	1.97	0.46
1:L:4490:LEU:HD23	1:L:4490:LEU:HA	1.80	0.46
1:L:4491:ALA:HB1	1:L:4492:PRO:HD3	1.43	0.46
1:L:4641:VAL:HG11	1:L:4674:ILE:HG12	1.97	0.46
1:A:315:ASN:ND2	1:A:368:ILE:CD1	2.77	0.46
1:A:320:SER:C	1:A:322:ILE:H	2.22	0.46
2:D:1434:ARG:NH2	1:H:2759:GLN:HG3	2.30	0.46
1:F:2175:VAL:HG23	1:F:2193:ASP:O	2.14	0.46
1:F:2279:ILE:O	1:F:2325:LEU:HG	2.15	0.46
1:G:2361:ASN:HB3	1:G:2364:GLN:HB3	1.96	0.46
1:H:2784:TYR:CD2	1:H:2825:GLN:HG3	2.51	0.46
1:H:2793:ASP:O	1:H:2794:ASN:HB2	2.14	0.46
1:H:2956:ALA:HB1	1:K:4145:MET:H	1.71	0.46
1:I:3209:VAL:HG13	1:I:3219:LEU:HB3	1.98	0.46
1:I:3222:ILE:HD12	1:I:3228:LEU:HD21	1.97	0.46
1:J:3806:LEU:HD23	1:J:3806:LEU:N	2.30	0.46
1:J:3836:ILE:CG2	1:J:3837:PHE:N	2.67	0.46
1:J:3866:LYS:HG2	1:J:3867:LYS:N	2.25	0.46
1:K:4219:LEU:HD13	1:K:4220:GLN:H	1.77	0.46
1:K:4259:ILE:O	1:K:4305:LEU:HG	2.15	0.46
1:L:4368:TYR:CD2	1:L:4409:GLN:HG3	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:4573:SER:HA	1:L:4579:ILE:HG12	1.97	0.46
1:B:434:GLN:HG3	2:D:1199:LEU:CB	2.10	0.46
1:B:659:ASP:HA	1:B:693:LEU:O	2.15	0.46
2:D:1273:VAL:HA	1:G:2360:ARG:NE	1.92	0.46
2:D:1333:PHE:CE1	1:G:2366:PHE:HA	2.50	0.46
2:D:1464:ALA:N	1:K:3944:ARG:NH1	2.64	0.46
1:F:2157:LEU:CD1	1:F:2171:ARG:N	2.79	0.46
1:F:2168:ASP:CG	1:I:3341:MET:HG2	2.39	0.46
1:G:2618:LEU:HD23	1:G:2618:LEU:N	2.30	0.46
1:J:3585:ASP:O	1:J:3586:ASN:HB2	2.14	0.46
1:J:3875:ASN:HD21	1:J:3892:LYS:HZ1	1.63	0.46
1:L:4333:VAL:HG11	1:L:4351:GLN:NE2	2.31	0.46
1:M:4729:VAL:HG11	1:M:4747:GLN:NE2	2.31	0.46
1:M:4929:LEU:HD13	1:M:4942:GLN:HA	1.96	0.46
1:A:335:VAL:HG11	1:A:368:ILE:HG12	1.97	0.46
1:A:349:ILE:O	1:A:395:LEU:HG	2.15	0.46
1:B:434:GLN:CB	2:D:1231:GLU:H	2.24	0.46
1:B:500:ILE:HD12	1:B:506:LEU:HD21	1.97	0.46
1:C:827:ASN:HB3	1:C:830:GLN:HB3	1.96	0.46
1:C:1019:LEU:CD1	1:C:1033:ARG:N	2.79	0.46
2:D:1354:THR:HG21	1:F:1971:GLY:CA	2.46	0.46
1:E:1826:LEU:HD23	1:E:1826:LEU:N	2.30	0.46
1:F:2021:VAL:HG13	1:F:2031:LEU:HB3	1.98	0.46
1:F:2170:GLN:CA	1:I:3368:PRO:HD3	2.45	0.46
1:H:2949:LEU:HD13	1:H:2962:GLN:HA	1.96	0.46
1:H:2957:MET:SD	1:K:4145:MET:O	2.73	0.46
1:I:3153:ASN:HB3	1:I:3156:GLN:HB3	1.96	0.46
1:J:3876:GLN:HG2	1:J:3877:GLN:H	1.80	0.46
1:K:3972:TYR:CD2	1:K:4013:GLN:HG3	2.51	0.46
1:K:4130:LEU:O	1:K:4164:ALA:HB2	2.15	0.46
1:K:4232:ILE:CG2	1:K:4233:PHE:H	2.05	0.46
1:L:4397:VAL:HG13	1:L:4407:LEU:HB3	1.98	0.46
1:L:4668:GLN:HG2	1:L:4669:GLN:H	1.80	0.46
1:M:4793:VAL:HG13	1:M:4803:LEU:HB3	1.98	0.46
1:A:91:VAL:HG13	1:A:101:LEU:HB3	1.98	0.46
1:A:292:LEU:HD23	1:A:292:LEU:N	2.30	0.46
1:C:896:ILE:HD12	1:C:902:LEU:HD21	1.97	0.46
1:C:1141:ILE:O	1:C:1187:LEU:HG	2.15	0.46
2:D:1214:ASN:HD22	1:J:3548:ARG:CB	2.18	0.46
2:D:1354:THR:CG2	1:F:1971:GLY:HA3	2.46	0.46
1:E:1625:VAL:HG13	1:E:1635:LEU:HB3	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1630:ARG:HG3	1:E:1751:ARG:NH1	2.29	0.46
1:F:2179:LEU:HA	1:I:3358:GLN:HG3	1.96	0.46
1:F:2193:ASP:HA	1:F:2227:LEU:O	2.15	0.46
1:F:2245:ASN:ND2	1:F:2298:ILE:CD1	2.77	0.46
1:G:2388:TYR:CD2	1:G:2429:GLN:HG3	2.51	0.46
1:G:2615:GLY:O	1:G:2632:ASN:ND2	2.48	0.46
1:G:2648:ILE:CG2	1:G:2649:PHE:H	2.05	0.46
1:H:2749:VAL:HG11	1:H:2767:GLN:NE2	2.31	0.46
1:H:2813:VAL:HG13	1:H:2823:LEU:HB3	1.98	0.46
1:H:2949:LEU:CD1	1:H:2963:ARG:N	2.79	0.46
1:H:2952:GLU:C	1:K:4145:MET:HA	2.41	0.46
1:H:2989:SER:HA	1:H:2995:ILE:HG12	1.97	0.46
1:H:3014:LEU:HD23	1:H:3014:LEU:N	2.30	0.46
1:H:3020:ARG:NE	1:K:4210:GLY:HA2	2.31	0.46
1:I:3180:TYR:CD2	1:I:3221:GLN:HG3	2.51	0.46
1:J:3618:ILE:HD12	1:J:3624:LEU:HD21	1.97	0.46
1:J:3781:SER:HA	1:J:3787:ILE:HG12	1.98	0.46
1:A:27:VAL:HG11	1:A:45:GLN:NE2	2.31	0.46
1:A:261:ALA:HB3	1:L:4544:ASP:H	1.81	0.46
1:A:362:GLN:HG2	1:A:363:GLN:H	1.80	0.46
1:B:623:LEU:CD1	1:B:637:ARG:N	2.79	0.46
1:B:684:VAL:HG21	1:B:705:LEU:HD23	1.98	0.46
1:C:883:VAL:HG13	1:C:893:LEU:HB3	1.98	0.46
2:D:1268:LEU:HG	1:E:1573:PHE:HB2	1.97	0.46
2:D:1276:PHE:HB2	1:G:2362:PHE:O	2.15	0.46
2:D:1441:ALA:C	1:M:4737:ASN:O	2.56	0.46
2:D:1508:LEU:CG	1:K:3951:GLY:CA	2.94	0.46
1:E:1761:LEU:CD1	1:E:1775:ARG:N	2.79	0.46
1:E:1823:GLY:O	1:E:1840:ASN:ND2	2.48	0.46
1:F:1965:ASN:HB3	1:F:1968:GLN:HB3	1.96	0.46
1:F:2179:LEU:C	1:I:3358:GLN:HG3	2.41	0.46
1:F:2290:ALA:H	1:F:2293:GLN:C	2.18	0.46
1:G:2417:VAL:HG13	1:G:2427:LEU:HB3	1.98	0.46
1:G:2641:ASN:ND2	1:G:2694:ILE:CD1	2.77	0.46
1:G:2675:ILE:O	1:G:2721:LEU:HG	2.15	0.46
1:H:2826:ILE:HD12	1:H:2832:LEU:HD21	1.97	0.46
1:H:2958:LYS:HG3	1:K:4154:PHE:CZ	2.51	0.46
1:H:3057:VAL:HG11	1:H:3090:ILE:HG12	1.97	0.46
1:K:3981:ASP:O	1:K:3982:ASN:HB2	2.14	0.46
1:K:4242:ASP:OD2	1:K:4276:LYS:HE2	2.14	0.46
1:K:4272:GLN:HG2	1:K:4273:GLN:H	1.80	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:4773:ASP:O	1:M:4774:ASN:HB2	2.14	0.46
1:M:5054:LYS:HG2	1:M:5055:LYS:N	2.25	0.46
1:A:29:THR:HA	2:D:1494:PHE:CE1	2.51	0.46
1:B:685:GLY:O	1:B:702:ASN:ND2	2.48	0.46
1:C:1049:ALA:HB1	1:C:1097:VAL:HG12	1.96	0.46
2:D:1213:ASP:H	1:J:3544:PRO:CA	2.27	0.46
2:D:1298:PHE:HE1	1:J:3552:GLN:OE1	1.92	0.46
2:D:1505:LYS:HE2	1:J:3552:GLN:OE1	2.16	0.46
1:E:1573:PHE:CE1	1:G:2362:PHE:HZ	2.33	0.46
1:F:1957:VAL:HG11	1:F:1975:GLN:NE2	2.31	0.46
1:F:2227:LEU:HA	1:I:3338:LEU:HD21	1.80	0.46
1:G:2353:VAL:HG11	1:G:2371:GLN:NE2	2.31	0.46
1:H:2958:LYS:CB	1:K:4171:ALA:CB	2.92	0.46
1:H:3020:ARG:O	1:K:4211:LYS:CA	2.64	0.46
1:H:3081:GLY:HA2	1:H:3085:GLN:O	2.15	0.46
1:I:3285:GLY:O	1:I:3298:ASN:N	2.35	0.46
1:J:3741:LEU:CD1	1:J:3755:ARG:N	2.79	0.46
1:K:4137:LEU:CD1	1:K:4151:ARG:N	2.79	0.46
1:L:4655:ILE:O	1:L:4701:LEU:HG	2.15	0.46
1:M:4929:LEU:CD1	1:M:4943:ARG:N	2.79	0.46
1:A:322:ILE:CG2	1:A:323:PHE:N	2.67	0.46
1:A:359:GLY:HA2	1:A:363:GLN:O	2.15	0.46
1:B:427:ARG:O	1:B:430:ARG:NH1	2.47	0.46
1:B:432:PHE:HZ	1:C:831:PHE:CE1	2.33	0.46
1:B:434:GLN:CG	2:D:1199:LEU:CB	2.63	0.46
1:B:667:LYS:HA	1:B:668:PRO:HD3	1.82	0.46
1:B:758:GLN:HG2	1:B:759:GLN:H	1.79	0.46
1:C:819:VAL:HG11	1:C:837:GLN:NE2	2.31	0.46
2:D:1447:PHE:N	1:K:3949:PHE:CD2	2.80	0.46
1:E:1596:TYR:CD2	1:E:1637:GLN:HG3	2.51	0.46
1:E:1638:ILE:HD12	1:E:1644:LEU:HD21	1.97	0.46
1:F:2175:VAL:HG21	1:I:3382:VAL:HA	1.96	0.46
1:F:2178:VAL:HA	1:I:3355:VAL:HB	1.87	0.46
1:F:2188:GLY:H	1:I:3359:ARG:NE	2.14	0.46
1:G:2474:LEU:HD12	1:G:2474:LEU:HA	1.81	0.46
1:I:3345:LEU:CD1	1:I:3359:ARG:N	2.79	0.46
1:I:3407:GLY:O	1:I:3424:ASN:ND2	2.48	0.46
1:J:3699:ALA:HB1	1:J:3700:PRO:HD3	1.43	0.46
1:K:4147:VAL:HG23	1:K:4150:GLN:HG2	1.98	0.46
1:K:4245:VAL:HG11	1:K:4278:ILE:HG12	1.97	0.46
1:L:4532:GLU:OE2	1:L:4582:PHE:N	2.46	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:4990:VAL:HG21	1:M:5011:LEU:HD23	1.98	0.46
1:B:423:VAL:HG11	1:B:441:GLN:NE2	2.31	0.46
1:B:633:VAL:HG23	1:B:636:GLN:HG2	1.98	0.46
1:C:854:TYR:CD2	1:C:895:GLN:HG3	2.51	0.46
1:C:1056:VAL:HG11	1:E:1832:ARG:HD3	1.90	0.46
1:C:1084:LEU:HD23	1:C:1084:LEU:N	2.30	0.46
2:D:1221:GLN:HG3	1:J:3554:PHE:N	2.25	0.46
2:D:1337:TYR:HD1	1:F:1966:PHE:CA	1.29	0.46
2:D:1475:ARG:N	1:M:4732:PRO:HB2	2.28	0.46
1:E:1569:ASN:HB3	1:E:1572:GLN:HB3	1.96	0.46
1:E:1791:ALA:HB3	1:E:1839:VAL:HG11	1.93	0.46
1:F:2175:VAL:CA	1:I:3363:VAL:N	2.78	0.46
1:F:2178:VAL:CG1	1:I:3345:LEU:CD2	2.91	0.46
1:F:2197:SER:HA	1:F:2203:ILE:HG12	1.98	0.46
1:F:2292:GLN:HG2	1:F:2293:GLN:H	1.79	0.46
1:G:2614:VAL:HG21	1:G:2635:LEU:HD23	1.98	0.46
1:H:2959:VAL:HG23	1:H:2962:GLN:HG2	1.98	0.46
1:I:3150:MET:HE2	1:I:3152:ARG:HD2	1.93	0.46
1:J:3863:ILE:O	1:J:3909:LEU:HG	2.15	0.46
1:K:4202:LEU:HD23	1:K:4202:LEU:N	2.30	0.46
1:K:4271:ASN:HD21	1:K:4288:LYS:HZ1	1.63	0.46
1:L:4342:PHE:HZ	1:M:4741:PHE:CE1	2.33	0.46
1:L:4533:LEU:CD1	1:L:4547:ARG:N	2.79	0.46
1:L:4628:ILE:CG2	1:L:4629:PHE:H	2.05	0.46
1:A:36:PHE:HZ	1:B:435:PHE:CE1	2.33	0.46
1:B:552:THR:O	1:B:589:ILE:HG12	2.17	0.46
1:C:1080:VAL:HG21	1:C:1101:LEU:HD23	1.98	0.46
2:D:1325:PHE:HD1	1:G:2360:ARG:HD3	0.91	0.46
2:D:1381:ILE:HD13	1:L:4347:GLY:HA3	0.65	0.46
2:D:1485:TYR:HB3	1:K:3951:GLY:C	2.41	0.46
2:D:1516:ARG:HH22	1:K:4144:ALA:CB	2.28	0.46
1:E:1561:VAL:HG11	1:E:1579:GLN:NE2	2.31	0.46
1:E:1771:VAL:HG23	1:E:1774:GLN:HG2	1.98	0.46
1:E:1797:ASP:HA	1:E:1831:LEU:O	2.15	0.46
1:F:2222:LEU:CD1	1:I:3419:LYS:CE	2.94	0.46
1:F:2226:LEU:CA	1:I:3377:ILE:CD1	2.93	0.46
1:F:2226:LEU:N	1:I:3412:LEU:HD13	2.31	0.46
1:I:3149:ARG:O	1:I:3152:ARG:NH1	2.47	0.46
1:I:3375:ALA:HB1	1:I:3423:VAL:HG12	1.96	0.46
1:J:3576:TYR:CD2	1:J:3617:GLN:HG3	2.51	0.46
1:J:3849:VAL:HG11	1:J:3882:ILE:HG12	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:4563:ALA:HB1	1:L:4611:VAL:HG12	1.96	0.46
1:L:4621:ASN:ND2	1:L:4674:ILE:CD1	2.77	0.46
1:M:5033:LYS:H	1:M:5033:LYS:CD	2.19	0.46
1:A:31:ARG:N	2:D:1493:TYR:CA	2.67	0.45
2:D:1244:TRP:CH2	1:I:3149:ARG:CA	2.97	0.45
2:D:1260:TRP:CE2	1:I:3153:ASN:C	2.93	0.45
2:D:1427:THR:HG22	2:D:1429:THR:HG23	1.99	0.45
1:E:1854:SER:CB	1:E:1856:ILE:HG22	2.46	0.45
1:E:1869:VAL:HG11	1:E:1902:ILE:HG12	1.97	0.45
1:F:2157:LEU:HA	1:I:3365:GLN:HB3	1.97	0.45
1:F:2177:GLN:N	1:I:3350:ALA:HA	1.99	0.45
1:F:2189:ILE:CG1	1:I:3383:ILE:CA	2.35	0.45
1:F:2224:LEU:O	1:I:3413:GLY:CA	2.65	0.45
1:F:2228:ARG:HH22	1:I:3398:ARG:HB3	1.13	0.45
1:F:2231:LYS:HZ3	1:I:3401:VAL:N	2.14	0.45
1:G:2660:GLY:HA3	1:G:2684:ILE:CD1	2.46	0.45
1:H:3010:VAL:HG21	1:H:3031:LEU:HD23	1.98	0.45
1:J:3836:ILE:CG2	1:J:3837:PHE:H	2.05	0.45
1:K:4006:ARG:NE	1:K:4190:ARG:NH1	2.65	0.45
1:K:4066:THR:O	1:K:4103:ILE:HG12	2.17	0.45
1:L:4543:VAL:HG23	1:L:4546:GLN:CG	2.47	0.45
1:M:4738:PHE:CD1	1:M:4738:PHE:C	2.94	0.45
1:M:4764:TYR:CD2	1:M:4805:GLN:HG3	2.51	0.45
1:M:4939:VAL:HG23	1:M:4942:GLN:CG	2.47	0.45
1:M:5051:ILE:O	1:M:5097:LEU:HG	2.15	0.45
1:A:214:GLN:HG2	1:A:328:ASN:ND2	2.32	0.45
1:A:260:LYS:CD	1:L:4544:ASP:C	2.80	0.45
1:C:863:ASP:O	1:C:864:ASN:HB2	2.14	0.45
1:C:1006:GLN:HG2	1:C:1120:ASN:ND2	2.32	0.45
1:C:1026:ALA:HA	1:E:1780:SER:CA	2.47	0.45
1:C:1029:VAL:HA	1:E:1830:LEU:HD22	1.97	0.45
2:D:1402:ASN:HB2	1:M:4733:ARG:CD	2.35	0.45
2:D:1430:TYR:N	1:M:4741:PHE:CD1	2.84	0.45
1:E:1570:PHE:CZ	1:F:1969:PHE:CZ	2.99	0.45
1:F:2086:THR:O	1:F:2123:ILE:HG12	2.16	0.45
1:F:2168:ASP:CG	1:I:3341:MET:CG	2.89	0.45
1:G:2661:VAL:HG11	1:G:2694:ILE:HG12	1.97	0.45
1:H:2959:VAL:HG23	1:H:2962:GLN:CG	2.46	0.45
1:I:3219:LEU:HD23	1:I:3219:LEU:HA	1.78	0.45
1:I:3274:THR:O	1:I:3311:ILE:HG12	2.16	0.45
1:J:3541:VAL:HG11	1:J:3559:GLN:NE2	2.31	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:3605:VAL:HG13	1:J:3615:LEU:HB3	1.98	0.45
1:K:3946:PHE:C	1:K:3946:PHE:CD1	2.95	0.45
1:A:31:ARG:HH11	2:D:1493:TYR:N	2.09	0.45
1:A:39:PHE:CE1	1:C:828:PHE:HZ	2.33	0.45
1:A:227:LEU:CD1	1:A:241:ARG:N	2.79	0.45
1:A:237:VAL:HG23	1:A:240:GLN:HG2	1.98	0.45
1:B:633:VAL:HG23	1:B:636:GLN:CG	2.46	0.45
1:C:1027:MET:HE1	1:E:1771:VAL:HB	1.96	0.45
1:C:1059:SER:HA	1:C:1065:ILE:HG12	1.97	0.45
2:D:1249:GLN:H	1:I:3154:PHE:HB3	1.82	0.45
2:D:1260:TRP:NE1	1:I:3155:GLN:C	2.54	0.45
2:D:1385:ILE:HA	1:L:4343:GLN:HG2	1.98	0.45
2:D:1407:GLU:OE1	1:F:1963:PRO:HD3	2.05	0.45
2:D:1508:LEU:CG	1:K:3951:GLY:HA3	2.46	0.45
1:F:2218:VAL:HG21	1:F:2239:LEU:HD23	1.98	0.45
1:F:2285:ASP:HA	1:F:2318:ARG:HA	1.99	0.45
1:G:2510:LEU:HD23	1:G:2510:LEU:HA	1.80	0.45
1:G:2592:THR:CG2	1:M:5000:ARG:HH22	2.30	0.45
1:G:2625:ASP:OD1	1:M:4966:VAL:CA	2.63	0.45
1:I:3406:VAL:HG21	1:I:3427:LEU:HD23	1.98	0.45
1:K:4014:ILE:HD12	1:K:4020:LEU:HD21	1.97	0.45
1:K:4094:LEU:HD23	1:K:4094:LEU:HA	1.80	0.45
1:A:288:VAL:HG21	1:A:309:LEU:HD23	1.98	0.45
1:A:358:ILE:H	1:A:387:GLN:NE2	2.15	0.45
1:B:487:VAL:HG13	1:B:497:LEU:HB3	1.98	0.45
1:B:492:ARG:NE	1:B:676:ARG:NH1	2.65	0.45
1:B:689:THR:HA	1:B:700:ASN:HA	1.99	0.45
1:B:779:ALA:HA	1:B:791:LEU:O	2.17	0.45
1:C:893:LEU:HD23	1:C:893:LEU:HA	1.78	0.45
1:C:1055:ASP:N	1:E:1830:LEU:O	2.41	0.45
1:C:1147:ASP:HA	1:C:1180:ARG:HA	1.99	0.45
2:D:1389:LYS:HG2	1:F:1961:ARG:N	2.19	0.45
2:D:1392:ASP:HA	1:F:1961:ARG:NH2	2.31	0.45
1:E:1801:SER:HA	1:E:1807:ILE:HG12	1.97	0.45
1:F:2190:LYS:N	1:I:3382:VAL:HG13	2.28	0.45
1:F:2233:VAL:HG23	1:I:3385:SER:O	2.13	0.45
1:F:2250:SER:CB	1:F:2252:ILE:HG22	2.47	0.45
1:G:2553:LEU:CD1	1:G:2567:ARG:N	2.79	0.45
1:H:2758:PHE:HZ	1:I:3157:PHE:CE1	2.33	0.45
1:H:2761:PHE:CE1	1:J:3550:PHE:HZ	2.33	0.45
1:I:3438:SER:CB	1:I:3440:ILE:HG22	2.47	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:3550:PHE:C	1:J:3550:PHE:CD1	2.94	0.45
1:J:3771:ALA:HB1	1:J:3819:VAL:HG12	1.95	0.45
1:L:4569:ASP:HA	1:L:4603:LEU:O	2.15	0.45
1:L:4626:SER:CB	1:L:4628:ILE:HG22	2.46	0.45
1:L:4689:ALA:HA	1:L:4701:LEU:O	2.17	0.45
1:M:4708:ALA:HB3	1:M:4709:PRO:HD3	1.99	0.45
1:A:320:SER:CB	1:A:322:ILE:HG22	2.47	0.45
1:B:716:SER:CB	1:B:718:ILE:HG22	2.47	0.45
1:B:754:ILE:H	1:B:783:GLN:NE2	2.15	0.45
1:B:757:ASN:ND2	1:B:774:LYS:NZ	2.65	0.45
1:C:1029:VAL:HG23	1:C:1032:GLN:HG2	1.98	0.45
1:C:1085:THR:HA	1:C:1096:ASN:HA	1.99	0.45
1:C:1150:ILE:H	1:C:1179:GLN:NE2	2.15	0.45
2:D:1295:LEU:HD11	1:K:3948:GLN:OE1	2.16	0.45
2:D:1369:GLY:H	1:F:1967:GLN:NE2	2.08	0.45
2:D:1477:TYR:HE2	1:M:4734:MET:HG2	1.81	0.45
2:D:1523:ASP:N	1:J:3546:MET:HG3	2.17	0.45
1:E:1718:LEU:HD23	1:E:1718:LEU:HA	1.80	0.45
1:E:1892:ILE:H	1:E:1921:GLN:NE2	2.15	0.45
1:F:2197:SER:H	1:I:3377:ILE:CG1	2.24	0.45
1:F:2264:GLY:HA3	1:F:2288:ILE:CD1	2.46	0.45
1:G:2362:PHE:CD1	1:G:2362:PHE:C	2.94	0.45
1:G:2430:ILE:HD12	1:G:2436:LEU:HD21	1.97	0.45
1:G:2681:ASP:HA	1:G:2714:ARG:HA	1.99	0.45
1:H:2958:LYS:CB	1:K:4171:ALA:HB1	2.46	0.45
1:I:3214:ARG:NE	1:I:3398:ARG:NH1	2.65	0.45
1:I:3355:VAL:HG23	1:I:3358:GLN:CG	2.47	0.45
1:I:3473:ASP:HA	1:I:3506:ARG:HA	1.99	0.45
1:I:3501:ALA:HA	1:I:3513:LEU:O	2.17	0.45
1:K:3941:ARG:CG	1:K:3941:ARG:HH11	2.25	0.45
1:K:4151:ARG:HH11	1:K:4151:ARG:CG	2.30	0.45
1:K:4233:PHE:C	1:K:4234:ASN:OD1	2.60	0.45
1:M:4994:LEU:HD23	1:M:4994:LEU:N	2.30	0.45
1:A:6:ALA:HB3	1:A:7:PRO:HD3	1.99	0.45
1:A:62:TYR:CD2	1:A:103:GLN:HG3	2.51	0.45
1:A:156:THR:O	1:A:193:ILE:HG12	2.17	0.45
1:B:756:ALA:H	1:B:759:GLN:C	2.18	0.45
2:D:1320:ARG:CA	1:G:2361:ASN:OD1	2.64	0.45
2:D:1435:VAL:HB	1:M:4735:PRO:CB	2.46	0.45
2:D:1440:TRP:CE3	1:H:2760:GLN:OE1	2.68	0.45
2:D:1445:GLN:O	1:M:4738:PHE:CE1	2.69	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1630:ARG:NE	1:E:1814:ARG:NH1	2.65	0.45
1:E:1822:VAL:HG21	1:E:1843:LEU:HD23	1.98	0.45
1:E:1849:ASN:ND2	1:E:1902:ILE:CD1	2.77	0.45
1:E:1917:ALA:HA	1:E:1929:LEU:O	2.17	0.45
1:F:2178:VAL:HG13	1:I:3358:GLN:CG	2.41	0.45
1:F:2185:ALA:HA	1:I:3359:ARG:HG3	1.23	0.45
1:F:2223:THR:HA	1:F:2234:ASN:HA	1.99	0.45
1:F:2253:PHE:C	1:F:2254:ASN:OD1	2.60	0.45
1:G:2332:ALA:HB3	1:G:2333:PRO:HD3	1.99	0.45
1:G:2593:SER:HA	1:G:2599:ILE:HG12	1.97	0.45
1:H:2728:ALA:HB3	1:H:2729:PRO:HD3	1.99	0.45
1:H:2793:ASP:OD1	1:H:2815:LYS:NZ	2.50	0.45
1:H:3019:LEU:HD22	1:K:4209:ASP:OD2	2.12	0.45
1:H:3056:GLY:HA3	1:H:3080:ILE:CD1	2.46	0.45
1:I:3441:PHE:C	1:I:3442:ASN:OD1	2.60	0.45
1:J:3807:THR:HA	1:J:3818:ASN:HA	1.99	0.45
1:J:3872:ILE:H	1:J:3901:GLN:NE2	2.15	0.45
1:J:3897:ALA:HA	1:J:3909:LEU:O	2.17	0.45
1:K:4124:GLN:HG2	1:K:4238:ASN:ND2	2.32	0.45
1:K:4293:ALA:HA	1:K:4305:LEU:O	2.17	0.45
1:M:4798:ARG:NE	1:M:4982:ARG:NH1	2.64	0.45
1:M:4806:ILE:HD12	1:M:4812:LEU:HD21	1.97	0.45
1:B:432:PHE:CD1	1:B:432:PHE:C	2.94	0.45
1:B:437:GLY:O	2:D:1191:VAL:CB	2.64	0.45
1:B:458:TYR:CD2	1:B:499:GLN:HG3	2.51	0.45
1:C:1115:PHE:C	1:C:1116:ASN:OD1	2.60	0.45
2:D:1449:ALA:HB2	1:K:3946:PHE:CA	2.47	0.45
1:E:1791:ALA:HB1	1:E:1839:VAL:HG12	1.96	0.45
1:E:1897:GLN:HE21	1:E:1897:GLN:HB3	1.50	0.45
1:F:1936:ALA:HB3	1:F:1937:PRO:HD3	1.99	0.45
1:F:1992:TYR:CD2	1:F:2033:GLN:HG3	2.51	0.45
1:F:2216:MET:CE	1:I:3419:LYS:HZ3	2.25	0.45
1:F:2219:GLY:O	1:F:2236:ASN:ND2	2.48	0.45
1:G:2540:GLN:HG2	1:G:2654:ASN:ND2	2.32	0.45
1:G:2624:ARG:HD2	1:M:4941:ALA:C	2.41	0.45
1:G:2709:ALA:HA	1:G:2721:LEU:O	2.17	0.45
1:H:2986:VAL:H	1:K:4209:ASP:CG	2.22	0.45
1:H:3105:ALA:HA	1:H:3117:LEU:O	2.17	0.45
1:I:3362:PHE:HE2	1:I:3380:GLY:HA2	1.82	0.45
1:I:3453:VAL:HG11	1:I:3486:ILE:HG12	1.97	0.45
1:J:3520:ALA:HB3	1:J:3521:PRO:HD3	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:3869:ASP:HA	1:J:3902:ARG:HA	1.99	0.45
1:K:4001:VAL:HG13	1:K:4011:LEU:HB3	1.98	0.45
1:K:4232:ILE:CG2	1:K:4233:PHE:N	2.67	0.45
1:M:4916:GLN:HG2	1:M:5030:ASN:ND2	2.32	0.45
1:A:71:ASP:OD1	1:A:93:LYS:NZ	2.50	0.45
1:A:360:ALA:H	1:A:363:GLN:C	2.18	0.45
1:B:436:PHE:HA	2:D:1191:VAL:HG23	1.97	0.45
1:B:632:LYS:HD3	1:J:3758:PHE:HZ	1.82	0.45
1:B:719:PHE:C	1:B:720:ASN:OD1	2.60	0.45
1:C:1089:LEU:CD1	1:E:1837:VAL:CG2	2.83	0.45
2:D:1392:ASP:CA	1:F:1961:ARG:NH2	2.79	0.45
2:D:1464:ALA:CA	1:K:3943:PRO:O	2.65	0.45
1:E:1605:ASP:CG	1:E:1627:LYS:NZ	2.75	0.45
1:E:1690:THR:O	1:E:1727:ILE:HG12	2.17	0.45
1:E:1896:GLN:HG2	1:E:1897:GLN:H	1.80	0.45
1:F:2031:LEU:HD23	1:F:2031:LEU:HA	1.78	0.45
1:F:2144:GLN:HE22	1:F:2257:SER:HB2	1.82	0.45
1:F:2226:LEU:H	1:I:3412:LEU:HD13	1.81	0.45
1:F:2232:GLN:CD	1:I:3412:LEU:HD12	2.42	0.45
1:F:2313:ALA:HA	1:F:2325:LEU:O	2.17	0.45
1:G:2563:VAL:HG23	1:G:2566:GLN:CG	2.46	0.45
1:G:2646:SER:CB	1:G:2648:ILE:HG22	2.46	0.45
1:H:2758:PHE:CD1	1:H:2758:PHE:C	2.95	0.45
1:H:2793:ASP:CG	1:H:2815:LYS:NZ	2.75	0.45
1:H:3083:ASN:ND2	1:H:3100:LYS:NZ	2.65	0.45
1:H:3085:GLN:HE21	1:H:3085:GLN:HB3	1.50	0.45
1:I:3154:PHE:HZ	1:J:3553:PHE:CE1	2.33	0.45
1:J:3596:ASP:C	1:J:3596:ASP:OD1	2.60	0.45
1:J:3837:PHE:C	1:J:3838:ASN:OD1	2.60	0.45
1:K:3981:ASP:OD1	1:K:4003:LYS:NZ	2.50	0.45
1:K:4203:THR:HA	1:K:4214:ASN:HA	1.99	0.45
1:K:4265:ASP:HA	1:K:4298:ARG:HA	1.99	0.45
1:M:4773:ASP:OD1	1:M:4795:LYS:NZ	2.50	0.45
1:M:5025:PHE:C	1:M:5026:ASN:OD1	2.60	0.45
1:A:36:PHE:C	1:A:36:PHE:CD1	2.94	0.45
1:A:261:ALA:HB1	1:L:4542:LYS:O	2.17	0.45
1:A:296:LEU:C	1:L:4605:ASP:OD2	2.56	0.45
1:A:331:LYS:H	1:A:331:LYS:CD	2.19	0.45
1:A:355:ASP:HA	1:A:388:ARG:HA	1.99	0.45
1:B:630:ALA:HB3	1:J:3750:LYS:HD3	0.82	0.45
1:B:663:SER:HA	1:B:669:ILE:HG12	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:737:LYS:HB3	1:B:738:THR:H	1.68	0.45
1:C:1056:VAL:CB	1:E:1832:ARG:HB2	2.44	0.45
2:D:1438:LEU:HB3	1:M:4735:PRO:CB	2.20	0.45
2:D:1525:ILE:HA	1:J:3545:ARG:CB	2.45	0.45
1:E:1771:VAL:HG23	1:E:1774:GLN:CG	2.46	0.45
1:F:2195:ILE:HA	1:I:3377:ILE:CD1	2.47	0.45
1:F:2291:ASN:ND2	1:F:2308:LYS:NZ	2.65	0.45
1:G:2588:GLY:HA3	1:M:4940:ASP:HA	1.99	0.45
1:G:2649:PHE:C	1:G:2650:ASN:OD1	2.60	0.45
1:H:2854:ASN:C	1:H:2854:ASN:ND2	2.64	0.45
1:H:2878:THR:O	1:H:2915:ILE:HG12	2.17	0.45
1:I:3476:ILE:H	1:I:3505:GLN:NE2	2.15	0.45
1:J:3610:ARG:NE	1:J:3794:ARG:NH1	2.64	0.45
1:K:3937:VAL:HG11	1:K:3955:GLN:NE2	2.31	0.45
1:K:3981:ASP:CG	1:K:4003:LYS:NZ	2.75	0.45
1:M:4773:ASP:CG	1:M:4795:LYS:NZ	2.75	0.45
1:A:31:ARG:HD3	2:D:1500:THR:O	2.15	0.45
1:A:33:PRO:HG3	2:D:1532:TYR:O	2.14	0.45
1:A:71:ASP:CG	1:A:93:LYS:NZ	2.75	0.45
1:A:132:ASN:HD21	1:A:135:GLY:C	2.25	0.45
1:B:467:ASP:OD1	1:B:489:LYS:NZ	2.50	0.45
1:F:2026:ARG:NE	1:F:2210:ARG:NH1	2.65	0.45
1:F:2282:LYS:HG2	1:F:2283:LYS:N	2.25	0.45
1:H:2936:GLN:HG2	1:H:3050:ASN:ND2	2.32	0.45
1:H:3076:GLY:O	1:H:3110:ARG:HB2	2.17	0.45
1:I:3124:ALA:HB3	1:I:3125:PRO:HD3	1.99	0.45
1:J:3546:MET:HG3	1:J:3547:PRO:HA	1.96	0.45
1:J:3585:ASP:CG	1:J:3607:LYS:NZ	2.75	0.45
1:J:3751:VAL:HG23	1:J:3754:GLN:CG	2.47	0.45
1:J:3802:VAL:HG21	1:J:3823:LEU:HD23	1.98	0.45
1:K:4147:VAL:HG23	1:K:4150:GLN:CG	2.46	0.45
1:K:4181:LYS:HA	1:K:4182:PRO:HD3	1.82	0.45
1:K:4270:ALA:H	1:K:4273:GLN:C	2.18	0.45
1:L:4377:ASP:CG	1:L:4399:LYS:NZ	2.75	0.45
1:L:4520:GLN:HG2	1:L:4634:ASN:ND2	2.32	0.45
1:L:4599:THR:HA	1:L:4610:ASN:HA	1.99	0.45
1:M:4916:GLN:HE22	1:M:5029:SER:HB2	1.82	0.45
1:M:5022:SER:CB	1:M:5024:ILE:HG22	2.46	0.45
1:M:5056:GLY:O	1:M:5090:ARG:HB2	2.17	0.45
1:M:5085:ALA:HA	1:M:5097:LEU:O	2.17	0.45
1:A:33:PRO:HB2	2:D:1204:LYS:CB	2.45	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:96:ARG:NE	1:A:280:ARG:NH1	2.64	0.44
1:A:383:ALA:HA	1:A:395:LEU:O	2.17	0.44
1:B:434:GLN:OE1	2:D:1197:ASN:OD1	2.35	0.44
1:B:528:ASN:HD21	1:B:531:GLY:C	2.25	0.44
1:B:750:GLY:O	1:B:784:ARG:HB2	2.17	0.44
1:C:798:ALA:HB3	1:C:799:PRO:HD3	1.99	0.44
1:C:1033:ARG:HH11	1:C:1033:ARG:CG	2.30	0.44
1:E:1666:ASN:HD21	1:E:1669:GLY:C	2.25	0.44
1:E:1748:GLN:HG2	1:E:1862:ASN:ND2	2.32	0.44
1:E:1895:ASN:ND2	1:E:1912:LYS:NZ	2.65	0.44
1:F:2001:ASP:CG	1:F:2023:LYS:NZ	2.75	0.44
1:G:2397:ASP:CG	1:G:2419:LYS:NZ	2.75	0.44
1:H:2804:ASP:C	1:H:2804:ASP:OD1	2.60	0.44
1:H:2993:LYS:HA	1:H:2994:PRO:HD3	1.82	0.44
1:H:3045:PHE:C	1:H:3046:ASN:OD1	2.60	0.44
1:H:3078:VAL:HG11	1:H:3080:ILE:HD11	2.00	0.44
1:I:3250:ASN:HD21	1:I:3253:GLY:C	2.26	0.44
1:K:3916:ALA:HB3	1:K:3917:PRO:HD3	1.99	0.44
1:K:4230:SER:CB	1:K:4232:ILE:HG22	2.46	0.44
1:K:4244:GLY:HA3	1:K:4268:ILE:CD1	2.46	0.44
1:L:4661:ASP:HA	1:L:4694:ARG:HA	1.99	0.44
1:A:323:PHE:C	1:A:324:ASN:OD1	2.60	0.44
1:C:888:ARG:NE	1:C:1072:ARG:NH1	2.65	0.44
1:C:1112:SER:CB	1:C:1114:ILE:HG22	2.46	0.44
2:D:1249:GLN:CG	1:I:3154:PHE:HB2	2.33	0.44
2:D:1438:LEU:HD23	1:H:2762:PHE:C	2.42	0.44
1:F:2144:GLN:HG2	1:F:2258:ASN:ND2	2.32	0.44
1:G:2564:ASP:CG	1:M:4946:PHE:CE2	2.95	0.44
1:G:2570:PHE:HE2	1:G:2588:GLY:HA2	1.82	0.44
1:H:2957:MET:CB	1:K:4147:VAL:HG13	2.42	0.44
1:I:3472:GLY:O	1:I:3506:ARG:HB2	2.17	0.44
1:K:4273:GLN:HB3	1:K:4274:ALA:H	1.66	0.44
1:L:4377:ASP:OD1	1:L:4399:LYS:NZ	2.50	0.44
1:L:4520:GLN:HE22	1:L:4633:SER:HB2	1.82	0.44
1:M:4834:ASN:HD21	1:M:4837:GLY:C	2.26	0.44
1:M:4939:VAL:HG23	1:M:4942:GLN:HG2	1.98	0.44
1:M:5060:ILE:H	1:M:5089:GLN:NE2	2.15	0.44
1:A:237:VAL:HG23	1:A:240:GLN:CG	2.46	0.44
1:B:430:ARG:NE	2:D:1197:ASN:HB3	2.32	0.44
1:B:756:ALA:HB3	1:B:759:GLN:CB	2.48	0.44
1:C:863:ASP:OD1	1:C:885:LYS:NZ	2.50	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:957:SER:O	1:C:958:GLY:O	2.36	0.44
1:C:1175:ALA:HA	1:C:1187:LEU:O	2.17	0.44
2:D:1235:THR:CB	1:E:1764:GLU:OE1	2.62	0.44
2:D:1464:ALA:CA	1:K:3944:ARG:NH1	2.77	0.44
1:E:1540:ALA:HB3	1:E:1541:PRO:HD3	1.99	0.44
1:F:2210:ARG:HA	1:I:3416:ARG:HH22	1.51	0.44
1:F:2286:VAL:HG11	1:F:2288:ILE:HD11	1.99	0.44
1:F:2288:ILE:H	1:F:2317:GLN:NE2	2.15	0.44
1:G:2563:VAL:HG12	1:M:4938:LYS:O	2.17	0.44
1:G:2686:ALA:HB3	1:G:2689:GLN:CB	2.48	0.44
1:H:2966:PHE:HE2	1:H:2984:GLY:HA2	1.82	0.44
1:H:2986:VAL:CB	1:K:4208:ARG:HH22	2.30	0.44
1:H:3010:VAL:HG13	1:H:3030:GLU:HA	2.00	0.44
1:H:3019:LEU:HA	1:K:4211:LYS:HZ1	1.82	0.44
1:H:3042:SER:CB	1:H:3044:ILE:HG22	2.46	0.44
1:H:3080:ILE:H	1:H:3109:GLN:NE2	2.15	0.44
1:I:3189:ASP:OD1	1:I:3211:LYS:NZ	2.50	0.44
1:I:3481:GLN:HE21	1:I:3481:GLN:HB3	1.50	0.44
1:J:3728:GLN:HG2	1:J:3842:ASN:ND2	2.32	0.44
1:J:3834:SER:CB	1:J:3836:ILE:HG22	2.46	0.44
1:J:3868:GLY:O	1:J:3902:ARG:HB2	2.17	0.44
1:K:4042:ASN:ND2	1:K:4045:GLY:N	2.58	0.44
1:K:4198:VAL:HG21	1:K:4219:LEU:HD23	1.98	0.44
1:K:4268:ILE:H	1:K:4297:GLN:NE2	2.15	0.44
1:L:4594:VAL:HG21	1:L:4615:LEU:HD23	1.98	0.44
1:L:4629:PHE:C	1:L:4630:ASN:OD1	2.60	0.44
1:M:4969:SER:HA	1:M:4975:ILE:HG12	1.97	0.44
1:M:5064:GLN:HG2	1:M:5065:GLN:H	1.80	0.44
1:A:214:GLN:HE22	1:A:327:SER:HB2	1.82	0.44
1:B:610:GLN:HG2	1:B:724:ASN:ND2	2.32	0.44
1:C:828:PHE:CD1	1:C:828:PHE:C	2.94	0.44
1:C:1052:LYS:HB3	1:E:1775:ARG:HH22	1.74	0.44
1:E:1589:ILE:HD13	1:E:1644:LEU:HG	1.99	0.44
1:E:1605:ASP:OD1	1:E:1627:LYS:NZ	2.50	0.44
1:E:1890:VAL:HG11	1:E:1892:ILE:HD11	2.00	0.44
1:F:2001:ASP:OD1	1:F:2023:LYS:NZ	2.50	0.44
1:F:2231:LYS:HZ2	1:I:3400:GLN:HB3	1.60	0.44
1:F:2293:GLN:HE21	1:F:2293:GLN:HB3	1.50	0.44
1:G:2422:ARG:NE	1:G:2606:ARG:NH1	2.65	0.44
1:G:2684:ILE:H	1:G:2713:GLN:NE2	2.15	0.44
1:H:2818:ARG:NE	1:H:3002:ARG:NH1	2.65	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:3173:ILE:HD13	1:I:3228:LEU:HG	1.99	0.44
1:I:3406:VAL:HG13	1:I:3426:GLU:HA	2.00	0.44
1:I:3411:THR:HA	1:I:3422:ASN:HA	1.99	0.44
1:J:3585:ASP:OD1	1:J:3607:LYS:NZ	2.50	0.44
1:J:3802:VAL:HG13	1:J:3822:GLU:HA	2.00	0.44
1:K:4042:ASN:HD21	1:K:4045:GLY:C	2.25	0.44
1:L:4402:ARG:NE	1:L:4586:ARG:NH1	2.65	0.44
1:L:4462:THR:O	1:L:4499:ILE:HG12	2.17	0.44
1:M:4995:THR:HA	1:M:5006:ASN:HA	1.99	0.44
1:M:5058:VAL:HG11	1:M:5060:ILE:HD11	1.99	0.44
1:M:5063:ASN:ND2	1:M:5080:LYS:NZ	2.65	0.44
1:A:34:ARG:O	2:D:1534:PHE:CA	2.66	0.44
1:A:82:ASP:C	1:A:82:ASP:OD1	2.60	0.44
1:B:451:ILE:HD13	1:B:506:LEU:HG	2.00	0.44
1:C:1152:ALA:HB3	1:C:1155:GLN:CB	2.48	0.44
2:D:1395:ASN:HD22	1:F:1961:ARG:NE	2.14	0.44
2:D:1409:TYR:N	1:M:4741:PHE:CZ	2.85	0.44
2:D:1508:LEU:HB2	1:K:3951:GLY:CA	2.35	0.44
2:D:1523:ASP:CA	1:J:3548:ARG:HD2	2.31	0.44
1:E:1857:PHE:C	1:E:1858:ASN:OD1	2.60	0.44
1:F:2062:ASN:ND2	1:F:2065:GLY:N	2.58	0.44
1:F:2152:ILE:CG2	1:I:3415:LEU:C	2.85	0.44
1:F:2237:LEU:CD2	1:I:3417:ASP:HB2	2.47	0.44
1:G:2397:ASP:OD1	1:G:2419:LYS:NZ	2.50	0.44
1:I:3303:ALA:HB1	1:I:3304:PRO:HD3	1.43	0.44
1:I:3474:VAL:HG11	1:I:3476:ILE:HD11	1.99	0.44
1:L:4550:PHE:HE2	1:L:4568:GLY:HA2	1.82	0.44
1:L:4660:GLY:O	1:L:4694:ARG:HB2	2.17	0.44
1:L:4666:ALA:HB3	1:L:4669:GLN:CB	2.48	0.44
1:M:4867:SER:O	1:M:4868:GLY:O	2.36	0.44
1:M:4990:VAL:HG13	1:M:5010:GLU:HA	2.00	0.44
1:A:55:ILE:HD13	1:A:110:LEU:HG	1.99	0.44
1:A:361:ASN:ND2	1:A:378:LYS:NZ	2.65	0.44
1:B:402:ALA:HB3	1:B:403:PRO:HD3	1.99	0.44
1:C:847:ILE:HD13	1:C:902:LEU:HG	2.00	0.44
1:C:1019:LEU:HG	1:E:1832:ARG:CD	2.44	0.44
1:C:1028:LYS:O	1:E:1799:ILE:HD11	2.17	0.44
2:D:1240:GLY:CA	1:E:1575:GLY:O	2.65	0.44
2:D:1400:ILE:CD1	1:M:4734:MET:HG3	2.47	0.44
1:E:1699:SER:O	1:E:1700:GLY:O	2.36	0.44
1:E:1775:ARG:HH11	1:E:1775:ARG:CG	2.30	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:2171:ARG:HH11	1:F:2171:ARG:CG	2.30	0.44
1:G:2482:THR:O	1:G:2519:ILE:HG12	2.17	0.44
1:G:2619:THR:HA	1:G:2630:ASN:HA	1.99	0.44
1:G:2627:LYS:HG2	1:M:4999:LEU:CD2	2.48	0.44
1:G:2627:LYS:HG2	1:M:4999:LEU:CG	2.45	0.44
1:I:3332:GLN:HG2	1:I:3446:ASN:ND2	2.32	0.44
1:I:3478:ALA:HB3	1:I:3481:GLN:CB	2.48	0.44
1:I:3479:ASN:ND2	1:I:3496:LYS:NZ	2.65	0.44
1:J:3679:SER:O	1:J:3680:GLY:O	2.36	0.44
1:J:3755:ARG:HH11	1:J:3755:ARG:CG	2.30	0.44
1:K:4271:ASN:ND2	1:K:4288:LYS:NZ	2.65	0.44
1:L:4312:ALA:HB3	1:L:4313:PRO:HD3	1.99	0.44
1:L:4662:VAL:HG11	1:L:4664:ILE:HD11	1.99	0.44
1:M:4858:THR:O	1:M:4895:ILE:HG12	2.16	0.44
1:M:5057:ASP:HA	1:M:5090:ARG:HA	1.99	0.44
1:A:356:VAL:HG11	1:A:358:ILE:HD11	1.99	0.44
1:B:428:MET:HA	1:B:429:PRO:O	2.18	0.44
1:B:478:ASP:OD1	1:B:478:ASP:C	2.60	0.44
1:B:664:LEU:HD21	1:B:688:LEU:HB2	2.00	0.44
1:C:1023:LEU:H	1:E:1769:MET:HB3	1.83	0.44
1:C:1026:ALA:CA	1:E:1780:SER:CA	2.95	0.44
1:C:1088:LEU:CD2	1:E:1834:GLY:N	2.74	0.44
1:C:1153:ASN:ND2	1:C:1170:LYS:NZ	2.65	0.44
1:E:1616:ASP:OD1	1:E:1616:ASP:C	2.60	0.44
1:E:1822:VAL:HG13	1:E:1842:GLU:HA	2.00	0.44
1:F:2187:ALA:HB1	1:F:2235:VAL:HG12	1.96	0.44
1:F:2194:VAL:HG22	1:I:3365:GLN:N	2.31	0.44
1:G:2537:GLU:O	1:G:2538:TYR:CD2	2.71	0.44
1:G:2614:VAL:HG13	1:G:2634:GLU:HA	2.00	0.44
1:H:2854:ASN:HD21	1:H:2857:GLY:C	2.25	0.44
1:H:2933:GLU:O	1:H:2934:TYR:CD2	2.71	0.44
1:H:3015:THR:HA	1:H:3026:ASN:HA	1.99	0.44
1:I:3189:ASP:CG	1:I:3211:LYS:NZ	2.75	0.44
1:J:3751:VAL:HG23	1:J:3754:GLN:HG2	1.99	0.44
1:L:4664:ILE:H	1:L:4693:GLN:NE2	2.15	0.44
1:L:4667:ASN:ND2	1:L:4684:LYS:NZ	2.65	0.44
1:M:4757:ILE:HD13	1:M:4812:LEU:HG	2.00	0.44
1:A:244:PHE:HE2	1:A:262:GLY:HA2	1.82	0.44
1:A:293:THR:HA	1:A:304:ASN:HA	1.99	0.44
1:A:363:GLN:HE21	1:A:363:GLN:HB3	1.50	0.44
1:B:607:GLU:O	1:B:608:TYR:CD2	2.71	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1006:GLN:HE22	1:C:1119:SER:HB2	1.82	0.44
1:C:1092:GLY:N	1:E:1836:GLN:HB3	2.31	0.44
2:D:1266:ALA:CB	1:E:1573:PHE:C	2.83	0.44
2:D:1438:LEU:HB3	1:M:4735:PRO:HG3	0.97	0.44
1:E:1745:GLU:O	1:E:1746:TYR:CD2	2.71	0.44
1:F:2141:GLU:O	1:F:2142:TYR:CD2	2.71	0.44
1:F:2162:ALA:O	1:F:2167:VAL:HG22	2.18	0.44
1:F:2196:THR:OG1	1:I:3372:ALA:CA	2.66	0.44
1:F:2224:LEU:HA	1:I:3421:VAL:HG23	1.99	0.44
1:G:2458:ASN:HD21	1:G:2461:GLY:C	2.25	0.44
1:G:2563:VAL:HG23	1:G:2566:GLN:HG2	1.98	0.44
1:H:2887:SER:O	1:H:2888:GLY:O	2.36	0.44
1:H:3082:ALA:HB3	1:H:3085:GLN:CB	2.48	0.44
1:J:3870:VAL:HG11	1:J:3872:ILE:HD11	2.00	0.44
1:K:4075:SER:O	1:K:4076:GLY:O	2.36	0.44
1:K:4198:VAL:HG13	1:K:4218:GLU:HA	2.00	0.44
1:L:4517:GLU:O	1:L:4518:TYR:CD2	2.71	0.44
1:L:4574:LEU:HD21	1:L:4598:LEU:HB2	2.00	0.44
1:A:289:GLY:O	1:A:306:ASN:ND2	2.48	0.44
1:B:467:ASP:CG	1:B:489:LYS:NZ	2.75	0.44
1:C:863:ASP:CG	1:C:885:LYS:NZ	2.75	0.44
1:C:1093:LYS:CG	1:E:1836:GLN:HE21	1.85	0.44
2:D:1273:VAL:CA	1:G:2360:ARG:NE	2.73	0.44
2:D:1321:ASN:ND2	1:G:2360:ARG:NH2	2.65	0.44
2:D:1387:SER:H	1:F:1965:ASN:ND2	2.16	0.44
1:E:1783:LEU:HA	1:E:1783:LEU:HD23	1.85	0.44
1:E:1827:THR:HA	1:E:1838:ASN:HA	1.99	0.44
1:F:2171:ARG:CZ	1:I:3367:LEU:O	2.65	0.44
1:F:2184:ALA:N	1:I:3359:ARG:HH22	1.95	0.44
1:F:2284:GLY:O	1:F:2318:ARG:HB2	2.17	0.44
1:G:2558:ALA:O	1:G:2563:VAL:HG22	2.18	0.44
1:H:2963:ARG:HH11	1:H:2963:ARG:CG	2.30	0.44
1:J:3670:THR:O	1:J:3707:ILE:HG12	2.17	0.44
1:J:3746:ALA:O	1:J:3751:VAL:HG22	2.18	0.44
1:M:5062:ALA:HB3	1:M:5065:GLN:CB	2.48	0.44
1:A:31:ARG:HG3	2:D:1493:TYR:N	2.21	0.43
1:A:32:MET:HA	1:A:33:PRO:O	2.18	0.43
1:A:211:GLU:O	1:A:212:TYR:CD2	2.71	0.43
1:A:232:ALA:O	1:A:237:VAL:HG22	2.18	0.43
1:A:268:LEU:HD21	1:A:292:LEU:HB2	2.00	0.43
1:A:354:GLY:O	1:A:388:ARG:HB2	2.17	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:434:GLN:HG2	2:D:1199:LEU:CB	2.31	0.43
1:B:640:PHE:HE2	1:B:658:GLY:HA2	1.82	0.43
1:B:751:ASP:HA	1:B:784:ARG:HA	1.99	0.43
1:C:1089:LEU:H	1:E:1835:LYS:N	1.71	0.43
2:D:1202:TYR:OH	2:D:1245:GLU:OE2	2.35	0.43
2:D:1407:GLU:HB2	1:M:4741:PHE:CE1	2.53	0.43
2:D:1408:THR:C	1:M:4741:PHE:CZ	2.85	0.43
2:D:1521:ASN:HD22	1:J:3549:ASN:HB2	1.52	0.43
1:G:2491:SER:O	1:G:2492:GLY:O	2.36	0.43
1:G:2680:GLY:O	1:G:2714:ARG:HB2	2.17	0.43
1:G:2686:ALA:H	1:G:2689:GLN:C	2.18	0.43
1:H:2777:ILE:HD13	1:H:2832:LEU:HG	1.99	0.43
1:H:2957:MET:O	1:K:4172:GLY:HA3	2.15	0.43
1:H:2958:LYS:HD2	1:K:4156:SER:CA	2.36	0.43
1:I:3332:GLN:HE22	1:I:3445:SER:HB2	1.82	0.43
1:J:3874:ALA:HB3	1:J:3877:GLN:CB	2.48	0.43
1:K:4264:GLY:O	1:K:4298:ARG:HB2	2.17	0.43
1:L:4388:ASP:C	1:L:4388:ASP:OD1	2.60	0.43
1:L:4438:ASN:HD21	1:L:4441:GLY:C	2.26	0.43
1:L:4543:VAL:HG23	1:L:4546:GLN:HG2	1.98	0.43
1:L:4547:ARG:HH11	1:L:4547:ARG:CG	2.30	0.43
1:M:4784:ASP:C	1:M:4784:ASP:OD1	2.60	0.43
1:A:33:PRO:HB2	2:D:1204:LYS:HB3	2.01	0.43
1:A:34:ARG:CA	2:D:1496:LYS:O	2.66	0.43
1:A:43:GLN:OE1	2:D:1494:PHE:CE1	2.71	0.43
1:B:610:GLN:HE22	1:B:723:SER:HB2	1.82	0.43
1:C:940:LEU:HD12	1:C:940:LEU:HA	1.81	0.43
1:C:948:THR:O	1:C:985:ILE:HG12	2.17	0.43
1:C:1039:GLN:HB3	1:E:1772:ASP:CA	2.39	0.43
1:C:1146:GLY:O	1:C:1180:ARG:HB2	2.17	0.43
2:D:1321:ASN:CA	1:G:2364:GLN:HB3	2.48	0.43
2:D:1361:LEU:CB	1:H:2757:ASN:O	2.66	0.43
1:E:1894:ALA:HB3	1:E:1897:GLN:CB	2.48	0.43
1:F:2095:SER:O	1:F:2096:GLY:O	2.36	0.43
1:F:2231:LYS:NZ	1:I:3401:VAL:N	2.66	0.43
1:G:2381:ILE:HD13	1:G:2436:LEU:HG	1.99	0.43
1:K:4154:PHE:HE2	1:K:4172:GLY:HA2	1.82	0.43
1:B:752:VAL:HG11	1:B:754:ILE:HD11	1.99	0.43
1:C:1003:GLU:O	1:C:1004:TYR:CD2	2.71	0.43
2:D:1267:GLY:CA	1:E:1573:PHE:O	2.66	0.43
2:D:1392:ASP:N	1:F:1961:ARG:CZ	2.81	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:1508:LEU:N	1:K:3951:GLY:CA	2.65	0.43
1:E:1747:GLY:HA3	1:E:1902:ILE:HB	2.01	0.43
1:E:1783:LEU:HA	1:E:1784:PRO:HD3	1.89	0.43
1:F:2187:ALA:CB	1:I:3384:THR:HG21	2.38	0.43
1:F:2190:LYS:CA	1:I:3382:VAL:HG13	2.48	0.43
1:F:2195:ILE:HA	1:I:3414:LEU:CD1	2.48	0.43
1:F:2224:LEU:CD1	1:I:3414:LEU:CB	2.86	0.43
1:F:2290:ALA:HB3	1:F:2293:GLN:CB	2.48	0.43
1:G:2540:GLN:HE22	1:G:2653:SER:HB2	1.82	0.43
1:G:2562:LYS:CD	1:M:4933:LEU:N	2.38	0.43
1:G:2563:VAL:CG2	1:M:4937:MET:CB	2.60	0.43
1:H:2954:ALA:O	1:H:2959:VAL:HG22	2.18	0.43
1:H:2960:ASP:OD1	1:K:4170:LYS:C	2.60	0.43
1:J:3646:ASN:HD21	1:J:3649:GLY:C	2.26	0.43
1:J:3649:GLY:O	1:J:3651:GLY:N	2.52	0.43
1:K:4266:VAL:HG11	1:K:4268:ILE:HD11	2.00	0.43
1:L:4595:GLY:O	1:L:4612:ASN:ND2	2.48	0.43
1:A:76:ILE:C	1:A:76:ILE:HD12	2.44	0.43
1:A:135:GLY:O	1:A:137:GLY:N	2.52	0.43
1:A:241:ARG:HH11	1:A:241:ARG:CG	2.30	0.43
1:B:609:GLY:HA3	1:B:764:ILE:HB	2.01	0.43
1:C:1090:ARG:HB3	1:E:1836:GLN:CD	2.43	0.43
2:D:1321:ASN:O	1:G:2364:GLN:CD	2.27	0.43
1:E:1748:GLN:HE22	1:E:1861:SER:HB2	1.82	0.43
1:F:2062:ASN:HD21	1:F:2065:GLY:C	2.25	0.43
1:F:2228:ARG:NH2	1:I:3395:ALA:C	2.72	0.43
1:G:2567:ARG:HH11	1:G:2567:ARG:CG	2.30	0.43
1:G:2687:ASN:ND2	1:G:2704:LYS:NZ	2.65	0.43
1:I:3386:LEU:HD21	1:I:3410:LEU:HB2	2.00	0.43
1:J:3863:ILE:HG23	1:J:3863:ILE:O	2.19	0.43
1:J:3875:ASN:ND2	1:J:3892:LYS:NZ	2.65	0.43
1:K:4121:GLU:O	1:K:4122:TYR:CD2	2.71	0.43
1:K:4123:GLY:HA3	1:K:4278:ILE:HB	2.01	0.43
1:K:4142:ALA:O	1:K:4147:VAL:HG22	2.18	0.43
1:K:4167:ALA:HB1	1:K:4215:VAL:HG12	1.95	0.43
1:K:4192:GLN:HE21	1:K:4192:GLN:HB3	1.66	0.43
1:L:4338:MET:HA	1:L:4339:PRO:O	2.18	0.43
1:L:4361:ILE:HD13	1:L:4416:LEU:HG	2.00	0.43
1:L:4471:SER:O	1:L:4472:GLY:O	2.36	0.43
1:M:4886:LEU:HD23	1:M:4886:LEU:HA	1.80	0.43
1:M:4934:ALA:O	1:M:4939:VAL:HG22	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:4970:LEU:HD21	1:M:4994:LEU:HB2	2.00	0.43
1:A:213:GLY:HA3	1:A:368:ILE:HB	2.01	0.43
1:B:434:GLN:HG3	2:D:1199:LEU:HA	0.86	0.43
1:C:1005:GLY:HA3	1:C:1160:ILE:HB	2.01	0.43
1:C:1024:ALA:O	1:C:1029:VAL:HG22	2.18	0.43
1:C:1090:ARG:C	1:E:1836:GLN:HA	2.43	0.43
2:D:1246:TYR:C	1:I:3151:PRO:C	2.86	0.43
2:D:1309:MET:HE3	1:F:1967:GLN:C	2.41	0.43
2:D:1362:ARG:HD2	1:H:2758:PHE:CE1	2.53	0.43
2:D:1522:THR:HA	1:J:3547:PRO:HB3	1.15	0.43
1:E:1766:ALA:O	1:E:1771:VAL:HG22	2.18	0.43
1:E:1888:GLY:O	1:E:1922:ARG:HB2	2.17	0.43
1:E:1889:ASP:HA	1:E:1922:ARG:HA	1.99	0.43
1:F:2173:ALA:O	1:I:3363:VAL:CG1	2.67	0.43
1:F:2189:ILE:HD11	1:I:3414:LEU:HA	2.00	0.43
1:H:2798:ILE:C	1:H:2798:ILE:HD12	2.44	0.43
1:H:2823:LEU:HD23	1:H:2823:LEU:HA	1.78	0.43
1:H:2958:LYS:HG3	1:K:4154:PHE:CE2	2.53	0.43
1:J:3727:GLY:HA3	1:J:3882:ILE:HB	2.01	0.43
1:J:3758:PHE:HE2	1:J:3776:GLY:HA2	1.82	0.43
1:L:4662:VAL:HG12	1:L:4663:ILE:N	2.34	0.43
1:A:165:SER:O	1:A:166:GLY:O	2.36	0.43
1:A:356:VAL:HG12	1:A:357:ILE:N	2.34	0.43
1:A:360:ALA:HB3	1:A:363:GLN:CB	2.48	0.43
1:A:363:GLN:HB3	1:A:364:ALA:H	1.65	0.43
1:B:561:SER:O	1:B:562:GLY:O	2.36	0.43
1:C:823:ARG:HD2	2:D:1326:GLY:O	2.18	0.43
1:C:1031:ALA:HB2	1:E:1837:VAL:HG21	1.99	0.43
1:C:1036:PHE:HB3	1:E:1832:ARG:NH1	2.29	0.43
1:C:1060:LEU:HD21	1:C:1084:LEU:HB2	2.00	0.43
1:F:2198:LEU:HD21	1:F:2222:LEU:HB2	2.00	0.43
1:F:2224:LEU:HB2	1:I:3414:LEU:CD1	2.48	0.43
1:F:2225:GLY:CA	1:I:3412:LEU:HD13	2.49	0.43
1:F:2227:LEU:CD2	1:I:3338:LEU:O	2.62	0.43
1:G:2402:ILE:C	1:G:2402:ILE:HD12	2.44	0.43
1:G:2589:ASP:N	1:M:4940:ASP:N	2.65	0.43
1:H:3078:VAL:HG12	1:H:3079:ILE:N	2.34	0.43
1:I:3194:ILE:C	1:I:3194:ILE:HD12	2.44	0.43
1:J:3590:ILE:C	1:J:3590:ILE:HD12	2.44	0.43
1:J:3782:LEU:HD21	1:J:3806:LEU:HB2	2.00	0.43
1:K:3965:ILE:HD13	1:K:4020:LEU:HG	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:4778:ILE:C	1:M:4778:ILE:HD12	2.44	0.43
1:M:4837:GLY:O	1:M:4839:GLY:N	2.52	0.43
1:M:4959:ALA:HB3	1:M:5007:VAL:HG11	1.93	0.43
1:M:5058:VAL:HG12	1:M:5059:ILE:N	2.34	0.43
1:B:428:MET:HE2	1:B:430:ARG:HD2	1.93	0.43
1:C:874:ASP:C	1:C:874:ASP:OD1	2.60	0.43
1:C:924:ASN:HD21	1:C:927:GLY:C	2.25	0.43
1:C:927:GLY:O	1:C:929:GLY:N	2.52	0.43
1:C:1148:VAL:HG12	1:C:1149:ILE:N	2.34	0.43
2:D:1447:PHE:CE1	1:K:3946:PHE:O	2.61	0.43
2:D:1475:ARG:CD	1:M:4734:MET:HB2	2.49	0.43
1:E:1661:THR:HG23	1:E:1703:LEU:HD21	2.01	0.43
1:E:1802:LEU:HD21	1:E:1826:LEU:HB2	2.00	0.43
1:F:2174:PHE:HE2	1:F:2192:GLY:HA2	1.82	0.43
1:F:2175:VAL:N	1:I:3363:VAL:N	2.66	0.43
1:F:2175:VAL:HA	1:I:3380:GLY:C	2.43	0.43
1:F:2271:LYS:HB3	1:F:2272:THR:H	1.68	0.43
1:G:2453:THR:HG23	1:G:2495:LEU:HD21	2.01	0.43
1:G:2461:GLY:O	1:G:2463:GLY:N	2.52	0.43
1:G:2562:LYS:HE2	1:M:4933:LEU:HD22	1.00	0.43
1:G:2594:LEU:HD21	1:G:2618:LEU:HB2	2.00	0.43
1:H:3107:ASN:OD1	1:H:3107:ASN:N	2.52	0.43
1:J:3569:ILE:HD13	1:J:3624:LEU:HG	1.99	0.43
1:J:3641:THR:HG23	1:J:3683:LEU:HD21	2.01	0.43
1:J:3662:LEU:HD12	1:J:3662:LEU:HA	1.81	0.43
1:J:3870:VAL:HG12	1:J:3871:ILE:N	2.34	0.43
1:A:349:ILE:HG23	1:A:349:ILE:O	2.19	0.43
1:B:437:GLY:CA	2:D:1191:VAL:O	2.59	0.43
1:B:472:ILE:C	1:B:472:ILE:HD12	2.44	0.43
1:B:714:ASP:OD1	1:B:714:ASP:C	2.62	0.43
1:C:1039:GLN:HB3	1:E:1772:ASP:HA	2.01	0.43
1:C:1081:GLY:O	1:C:1098:ASN:ND2	2.48	0.43
1:C:1141:ILE:HG23	1:C:1141:ILE:O	2.19	0.43
2:D:1405:ARG:N	1:F:1962:MET:H	2.14	0.43
1:E:1805:LYS:HA	1:E:1806:PRO:HD3	1.82	0.43
1:F:2065:GLY:O	1:F:2067:GLY:N	2.52	0.43
1:F:2115:ALA:HB1	1:F:2116:PRO:HD3	1.43	0.43
1:F:2169:ALA:O	1:I:3339:GLY:O	2.36	0.43
1:F:2224:LEU:CB	1:I:3419:LYS:CB	2.78	0.43
1:H:3019:LEU:CA	1:K:4211:LYS:HZ1	2.31	0.43
1:I:3150:MET:HA	1:I:3151:PRO:O	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:3459:LYS:HB3	1:I:3460:THR:H	1.68	0.43
1:J:3728:GLN:HE22	1:J:3841:SER:HB2	1.82	0.43
1:K:4124:GLN:HE22	1:K:4237:SER:HB2	1.82	0.43
1:K:4270:ALA:HB3	1:K:4273:GLN:CB	2.48	0.43
1:L:4624:ASP:OD1	1:L:4624:ASP:C	2.62	0.43
1:B:684:VAL:HG13	1:B:704:GLU:HA	2.00	0.43
1:C:1019:LEU:HB3	1:E:1794:LYS:HB2	2.01	0.43
1:C:1091:ASP:HA	1:E:1837:VAL:O	2.19	0.43
1:C:1148:VAL:HG11	1:C:1150:ILE:HD11	2.00	0.43
2:D:1365:GLY:CA	1:F:1970:PHE:CD1	3.02	0.43
1:E:1566:MET:HE2	1:E:1568:ARG:HD2	1.94	0.43
1:E:1894:ALA:H	1:E:1897:GLN:C	2.18	0.43
1:E:1919:ASN:OD1	1:E:1919:ASN:N	2.52	0.43
1:F:1985:ILE:HD13	1:F:2040:LEU:HG	2.00	0.43
1:F:2012:ASP:C	1:F:2012:ASP:OD1	2.60	0.43
1:G:2648:ILE:CG2	1:G:2649:PHE:N	2.67	0.43
1:H:2936:GLN:HE22	1:H:3049:SER:HB2	1.82	0.43
1:H:2979:ALA:HB1	1:H:3027:VAL:HG12	1.95	0.43
1:H:2990:LEU:HD21	1:H:3014:LEU:HB2	2.00	0.43
1:I:3245:THR:HG23	1:I:3287:LEU:HD21	2.01	0.43
1:I:3266:LEU:HD12	1:I:3266:LEU:HA	1.81	0.43
1:I:3355:VAL:HG23	1:I:3358:GLN:HG2	1.98	0.43
1:I:3474:VAL:HG12	1:I:3475:ILE:N	2.34	0.43
1:J:3615:LEU:HD23	1:J:3615:LEU:HA	1.78	0.43
1:J:3803:GLY:O	1:J:3820:ASN:ND2	2.48	0.43
1:K:4061:GLU:O	1:K:4063:PHE:N	2.49	0.43
1:K:4266:VAL:HG12	1:K:4267:ILE:N	2.34	0.43
1:M:4951:LEU:HD23	1:M:4951:LEU:HA	1.85	0.43
1:M:4973:LYS:HA	1:M:4974:PRO:HD3	1.82	0.43
1:M:4991:GLY:O	1:M:5008:ASN:ND2	2.48	0.43
1:B:628:ALA:O	1:B:633:VAL:HG22	2.18	0.43
1:B:637:ARG:HH11	1:B:637:ARG:CG	2.30	0.43
1:B:745:ILE:HG23	1:B:745:ILE:O	2.19	0.43
1:C:1009:ARG:HG3	1:C:1102:GLN:HE21	1.84	0.43
1:C:1023:LEU:N	1:E:1769:MET:CB	2.82	0.43
1:C:1026:ALA:O	1:E:1778:PHE:O	2.35	0.43
1:C:1080:VAL:HG13	1:C:1100:GLU:HA	2.00	0.43
1:C:1144:LYS:HG2	1:C:1145:LYS:N	2.25	0.43
2:D:1342:GLY:CA	1:F:1971:GLY:C	2.63	0.43
1:E:1566:MET:HA	1:E:1567:PRO:O	2.18	0.43
1:E:1669:GLY:O	1:E:1671:GLY:N	2.52	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1703:LEU:HD23	1:E:1703:LEU:HA	1.96	0.43
1:E:1883:ILE:HG23	1:E:1883:ILE:O	2.19	0.43
1:F:2006:ILE:C	1:F:2006:ILE:HD12	2.44	0.43
1:F:2171:ARG:HD2	1:I:3366:VAL:HG21	2.00	0.43
1:F:2175:VAL:HG23	1:I:3363:VAL:CG2	2.49	0.43
1:F:2197:SER:CB	1:I:3421:VAL:CG1	2.93	0.43
1:F:2252:ILE:CG2	1:F:2253:PHE:N	2.67	0.43
1:G:2539:GLY:HA3	1:G:2694:ILE:HB	2.01	0.43
1:G:2558:ALA:HA	1:M:4938:LYS:CG	2.49	0.43
1:G:2563:VAL:CG2	1:M:4937:MET:HA	2.43	0.43
1:G:2624:ARG:HD2	1:M:4941:ALA:O	2.18	0.43
1:G:2682:VAL:HG12	1:G:2683:ILE:N	2.34	0.43
1:H:3077:ASP:HA	1:H:3110:ARG:HA	1.99	0.43
1:L:4395:LYS:HG3	1:L:4411:GLN:CD	2.44	0.43
1:M:4913:GLU:O	1:M:4914:TYR:CD2	2.71	0.43
1:A:29:THR:O	2:D:1493:TYR:CA	2.67	0.42
1:A:185:ALA:HB1	1:A:186:PRO:HD3	1.43	0.42
1:C:919:THR:HG23	1:C:961:LEU:HD21	2.01	0.42
2:D:1441:ALA:O	1:M:4740:GLN:HG2	2.18	0.42
2:D:1464:ALA:H	1:K:3941:ARG:HB2	1.84	0.42
1:E:1610:ILE:C	1:E:1610:ILE:HD12	2.44	0.42
1:E:1852:ASP:OD1	1:E:1852:ASP:C	2.62	0.42
1:E:1894:ALA:HB3	1:E:1897:GLN:HB2	2.01	0.42
1:F:2175:VAL:HG23	1:I:3363:VAL:H	1.74	0.42
1:F:2185:ALA:HB3	1:I:3357:ALA:CA	2.44	0.42
1:F:2193:ASP:HB2	1:I:3363:VAL:HG23	1.83	0.42
1:F:2202:PRO:CA	1:I:3376:GLY:HA3	2.15	0.42
1:F:2218:VAL:HG13	1:F:2238:GLU:HA	2.00	0.42
1:F:2224:LEU:O	1:I:3413:GLY:HA2	2.19	0.42
1:G:2682:VAL:HG11	1:G:2684:ILE:HD11	1.99	0.42
1:H:2939:ARG:HG3	1:H:3032:GLN:HE21	1.84	0.42
1:H:2958:LYS:O	1:K:4171:ALA:O	2.36	0.42
1:H:3023:LYS:CD	1:K:4210:GLY:HA3	2.48	0.42
1:I:3253:GLY:O	1:I:3255:GLY:N	2.52	0.42
1:I:3436:ASP:OD1	1:I:3436:ASP:C	2.62	0.42
1:I:3503:ASN:OD1	1:I:3503:ASN:N	2.52	0.42
1:K:3999:LYS:HG3	1:K:4015:GLN:CD	2.44	0.42
1:K:4037:THR:HG23	1:K:4079:LEU:HD21	2.01	0.42
1:L:4382:ILE:C	1:L:4382:ILE:HD12	2.44	0.42
1:L:4554:VAL:O	1:L:4554:VAL:HG13	2.19	0.42
1:L:4594:VAL:HG13	1:L:4614:GLU:HA	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:4791:LYS:HG3	1:M:4807:GLN:CD	2.44	0.42
1:A:318:ASP:OD1	1:A:318:ASP:C	2.62	0.42
1:A:385:ASN:OD1	1:A:385:ASN:N	2.52	0.42
1:B:485:LYS:HG3	1:B:501:GLN:CD	2.44	0.42
1:C:868:ILE:C	1:C:868:ILE:HD12	2.44	0.42
2:D:1275:SER:CA	1:G:2363:GLN:HG2	2.49	0.42
2:D:1524:ASN:HB2	1:J:3545:ARG:HA	2.00	0.42
1:E:1889:ASP:N	1:E:1889:ASP:OD1	2.52	0.42
1:F:2019:LYS:HG3	1:F:2035:GLN:CD	2.44	0.42
1:F:2171:ARG:O	1:I:3366:VAL:HG21	2.18	0.42
1:G:2575:LEU:HA	1:G:2576:PRO:HD3	1.89	0.42
1:H:2827:GLN:O	1:H:2828:ASN:HB2	2.20	0.42
1:H:2857:GLY:O	1:H:2859:GLY:N	2.52	0.42
1:H:3074:LYS:HG2	1:H:3075:LYS:N	2.25	0.42
1:J:3725:GLU:O	1:J:3726:TYR:CD2	2.71	0.42
1:J:3731:ARG:HG3	1:J:3824:GLN:HE21	1.84	0.42
1:K:4199:GLY:O	1:K:4216:ASN:ND2	2.48	0.42
1:A:127:THR:HG23	1:A:169:LEU:HD21	2.01	0.42
1:A:288:VAL:HG13	1:A:308:GLU:HA	2.00	0.42
1:B:531:GLY:O	1:B:533:GLY:N	2.52	0.42
1:B:644:VAL:HG13	1:B:644:VAL:O	2.19	0.42
1:B:727:LYS:HB2	1:B:728:ASP:H	1.76	0.42
1:B:780:LEU:O	1:B:782:ILE:HG23	2.20	0.42
1:C:897:GLN:O	1:C:898:ASN:HB2	2.20	0.42
1:C:1089:LEU:HA	1:E:1836:GLN:HB3	1.71	0.42
1:C:1091:ASP:C	1:E:1836:GLN:CD	2.57	0.42
2:D:1260:TRP:CH2	1:I:3154:PHE:CE1	2.72	0.42
1:F:2143:GLY:HA3	1:F:2298:ILE:HB	2.01	0.42
1:F:2185:ALA:H	1:I:3357:ALA:HB3	1.62	0.42
1:F:2229:ASP:CG	1:I:3398:ARG:C	2.86	0.42
1:G:2543:ARG:HG3	1:G:2636:GLN:HE21	1.84	0.42
1:G:2597:LYS:HA	1:G:2598:PRO:HD3	1.82	0.42
1:G:2624:ARG:NH2	1:M:4943:ARG:HE	2.17	0.42
1:G:2710:LEU:O	1:G:2712:ILE:HG23	2.20	0.42
1:H:2971:LEU:HD23	1:H:2971:LEU:HA	1.85	0.42
1:I:3207:LYS:HG3	1:I:3223:GLN:CD	2.44	0.42
1:J:3603:LYS:HG3	1:J:3619:GLN:CD	2.44	0.42
1:M:4704:MET:HA	1:M:4705:PRO:HD3	1.93	0.42
1:A:34:ARG:CA	2:D:1533:GLN:O	2.67	0.42
1:A:271:LYS:HA	1:A:272:PRO:HD3	1.82	0.42
1:A:360:ALA:HB3	1:A:363:GLN:HB2	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:428:MET:HA	1:B:429:PRO:C	2.45	0.42
1:B:751:ASP:OD1	1:B:751:ASP:N	2.52	0.42
1:C:924:ASN:HB2	1:C:930:GLU:OE1	2.20	0.42
1:C:1040:VAL:O	1:C:1040:VAL:HG13	2.19	0.42
1:C:1089:LEU:CG	1:E:1837:VAL:CG2	2.97	0.42
1:C:1123:LYS:H	1:C:1123:LYS:CD	2.19	0.42
2:D:1272:ASP:O	1:G:2358:MET:CE	2.65	0.42
2:D:1443:LYS:C	1:M:4737:ASN:O	2.63	0.42
1:F:2078:LEU:HD12	1:F:2078:LEU:HA	1.81	0.42
1:F:2162:ALA:O	1:I:3365:GLN:OE1	2.36	0.42
1:F:2315:ASN:OD1	1:F:2315:ASN:N	2.52	0.42
1:H:2849:THR:HG23	1:H:2891:LEU:HD21	2.01	0.42
1:H:3082:ALA:HB3	1:H:3085:GLN:HB2	2.02	0.42
1:I:3150:MET:HA	1:I:3151:PRO:C	2.45	0.42
1:I:3223:GLN:O	1:I:3224:ASN:HB2	2.20	0.42
1:I:3283:SER:O	1:I:3284:GLY:O	2.36	0.42
1:K:3992:ASP:C	1:K:3992:ASP:OD1	2.60	0.42
1:L:4438:ASN:HB2	1:L:4444:GLU:OE1	2.20	0.42
1:L:4441:GLY:O	1:L:4443:GLY:N	2.52	0.42
1:M:5051:ILE:HG23	1:M:5051:ILE:O	2.19	0.42
1:M:5057:ASP:N	1:M:5057:ASP:OD1	2.52	0.42
1:A:355:ASP:N	1:A:355:ASP:OD1	2.52	0.42
1:B:523:THR:HG23	1:B:565:LEU:HD21	2.01	0.42
1:B:730:GLY:HA3	1:B:754:ILE:CD1	2.45	0.42
1:C:1045:SER:HB2	1:C:1100:GLU:OE1	2.20	0.42
1:C:1051:ILE:CG2	1:C:1052:LYS:N	2.82	0.42
1:C:1174:LEU:HD11	1:C:1176:LEU:HD11	2.02	0.42
1:C:1176:LEU:O	1:C:1178:ILE:HG23	2.20	0.42
2:D:1333:PHE:O	1:G:2364:GLN:CD	2.63	0.42
2:D:1366:ASP:C	1:F:1964:ARG:NH2	2.74	0.42
2:D:1399:TYR:CD1	1:H:2762:PHE:CB	3.01	0.42
1:F:2229:ASP:O	1:I:3338:LEU:N	2.52	0.42
1:F:2231:LYS:NZ	1:I:3386:LEU:HD12	2.32	0.42
1:G:2686:ALA:HB3	1:G:2689:GLN:HB2	2.01	0.42
1:H:2935:GLY:HA3	1:H:3090:ILE:HB	2.01	0.42
1:H:2953:LEU:HB3	1:K:4145:MET:O	2.19	0.42
1:I:3329:GLU:O	1:I:3330:TYR:CD2	2.71	0.42
1:I:3467:ILE:HG23	1:I:3467:ILE:O	2.19	0.42
1:J:3848:GLY:HA3	1:J:3872:ILE:CD1	2.46	0.42
1:J:3877:GLN:HB3	1:J:3878:ALA:H	1.65	0.42
1:K:3986:ILE:C	1:K:3986:ILE:HD12	2.44	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:4259:ILE:HG23	1:K:4259:ILE:O	2.19	0.42
1:K:4294:LEU:O	1:K:4296:ILE:HG23	2.20	0.42
1:L:4661:ASP:OD1	1:L:4661:ASP:N	2.52	0.42
1:M:4955:SER:HB2	1:M:5010:GLU:OE1	2.20	0.42
1:M:5062:ALA:HB3	1:M:5065:GLN:HB2	2.02	0.42
1:A:297:LEU:HB2	1:L:4607:LYS:HE3	1.58	0.42
1:B:528:ASN:HB2	1:B:534:GLU:OE1	2.20	0.42
1:B:613:ARG:HG3	1:B:706:GLN:HE21	1.84	0.42
1:C:1027:MET:SD	1:E:1761:LEU:CD2	3.07	0.42
2:D:1241:TYR:OH	1:E:1573:PHE:HZ	1.97	0.42
2:D:1364:ASN:ND2	1:F:1970:PHE:HA	2.34	0.42
2:D:1429:THR:C	1:M:4740:GLN:N	2.54	0.42
2:D:1448:GLU:HB3	1:K:3945:ASN:CG	2.44	0.42
2:D:1465:TYR:C	2:D:1466:LEU:HD12	2.45	0.42
2:D:1470:GLY:HA2	1:M:4738:PHE:HA	1.90	0.42
1:F:2062:ASN:HB2	1:F:2068:GLU:OE1	2.20	0.42
1:F:2197:SER:HB3	1:I:3376:GLY:CA	2.50	0.42
1:F:2285:ASP:HA	1:F:2318:ARG:CA	2.50	0.42
1:G:2574:VAL:O	1:G:2574:VAL:HG13	2.19	0.42
1:H:2850:VAL:HG12	1:H:2892:VAL:O	2.20	0.42
1:H:3082:ALA:H	1:H:3085:GLN:C	2.18	0.42
1:H:3106:LEU:O	1:H:3108:ILE:HG23	2.20	0.42
1:I:3341:MET:HE2	1:I:3367:LEU:CD1	2.33	0.42
1:I:3500:LEU:HD11	1:I:3502:LEU:HD11	2.02	0.42
1:L:4538:ALA:O	1:L:4543:VAL:HG22	2.18	0.42
1:M:4819:ASP:HA	1:M:4902:ASN:HD21	1.85	0.42
1:M:4919:ARG:HG3	1:M:5012:GLN:HE21	1.84	0.42
1:M:4943:ARG:HH11	1:M:4943:ARG:CG	2.30	0.42
1:A:128:VAL:HG12	1:A:170:VAL:O	2.20	0.42
1:A:334:GLY:HA3	1:A:358:ILE:CD1	2.45	0.42
1:A:341:LYS:HB3	1:A:342:THR:H	1.68	0.42
1:B:781:ASN:OD1	1:B:781:ASN:N	2.52	0.42
1:C:1152:ALA:HB3	1:C:1155:GLN:HB2	2.01	0.42
2:D:1219:GLY:O	1:J:3555:GLY:HA3	2.20	0.42
2:D:1302:THR:CB	1:K:3949:PHE:CZ	3.02	0.42
2:D:1396:THR:HB	1:H:2752:PRO:C	2.32	0.42
2:D:1433:THR:H	1:M:4740:GLN:CB	2.16	0.42
2:D:1449:ALA:HB2	1:K:3946:PHE:HA	2.00	0.42
1:E:1662:VAL:HG12	1:E:1704:VAL:O	2.20	0.42
1:E:1682:LEU:HD12	1:E:1682:LEU:HA	1.81	0.42
1:F:2186:LYS:C	1:F:2186:LYS:CD	2.93	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:2228:ARG:HA	1:I:3340:ILE:CG1	2.49	0.42
1:F:2261:LYS:H	1:F:2261:LYS:CD	2.19	0.42
1:G:2675:ILE:HG23	1:G:2675:ILE:O	2.19	0.42
1:H:2811:LYS:HG3	1:H:2827:GLN:CD	2.44	0.42
1:H:3071:ILE:HG23	1:H:3071:ILE:O	2.19	0.42
1:I:3371:SER:HB2	1:I:3426:GLU:OE1	2.20	0.42
1:K:4178:LEU:HD21	1:K:4202:LEU:HB2	2.00	0.42
1:L:4523:ARG:HG3	1:L:4616:GLN:HE21	1.84	0.42
1:M:4830:VAL:HG12	1:M:4872:VAL:O	2.20	0.42
1:M:5057:ASP:HA	1:M:5090:ARG:CA	2.50	0.42
1:A:382:LEU:HD11	1:A:384:LEU:HD11	2.02	0.42
1:A:384:LEU:O	1:A:386:ILE:HG23	2.20	0.42
1:B:757:ASN:HD21	1:B:774:LYS:HZ1	1.68	0.42
1:C:1048:LYS:C	1:C:1048:LYS:CD	2.93	0.42
2:D:1413:LEU:H	1:K:3946:PHE:HE2	1.66	0.42
2:D:1464:ALA:O	1:K:3944:ARG:NH1	2.51	0.42
1:E:1567:PRO:HD3	1:I:3149:ARG:CD	2.43	0.42
1:E:1751:ARG:HG3	1:E:1844:GLN:HE21	1.84	0.42
1:F:2081:GLU:O	1:F:2083:PHE:N	2.49	0.42
1:F:2286:VAL:HG12	1:F:2287:ILE:N	2.34	0.42
1:G:2408:ASP:C	1:G:2408:ASP:OD1	2.60	0.42
1:G:2557:LEU:HB2	1:M:4938:LYS:CD	2.50	0.42
1:H:2839:ASP:HA	1:H:2922:ASN:HD21	1.85	0.42
1:H:3040:ASP:OD1	1:H:3040:ASP:C	2.62	0.42
1:I:3250:ASN:HB2	1:I:3256:GLU:OE1	2.20	0.42
1:I:3331:GLY:HA3	1:I:3486:ILE:HB	2.01	0.42
1:J:3869:ASP:OD1	1:J:3869:ASP:N	2.52	0.42
1:K:4045:GLY:O	1:K:4047:GLY:N	2.52	0.42
1:K:4265:ASP:HA	1:K:4298:ARG:CA	2.50	0.42
1:M:4950:VAL:O	1:M:4950:VAL:HG13	2.19	0.42
1:M:5084:LEU:HD11	1:M:5086:LEU:HD11	2.02	0.42
1:B:501:GLN:O	1:B:502:ASN:HB2	2.19	0.42
1:B:649:SER:HB2	1:B:704:GLU:OE1	2.20	0.42
1:B:756:ALA:HB3	1:B:759:GLN:HB2	2.01	0.42
1:C:881:LYS:HG3	1:C:897:GLN:CD	2.44	0.42
1:C:1177:ASN:OD1	1:C:1177:ASN:N	2.52	0.42
2:D:1425:GLN:H	1:K:3947:GLN:N	2.18	0.42
1:E:1865:LYS:H	1:E:1865:LYS:CD	2.19	0.42
1:E:1890:VAL:HG12	1:E:1891:ILE:N	2.34	0.42
1:E:1899:VAL:O	1:E:1899:VAL:CG1	2.65	0.42
1:F:2035:GLN:O	1:F:2036:ASN:HB2	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:2178:VAL:CG1	1:I:3345:LEU:HD22	2.49	0.42
1:F:2179:LEU:HA	1:F:2180:PRO:HD3	1.89	0.42
1:F:2229:ASP:N	1:I:3401:VAL:HG11	2.09	0.42
1:F:2232:GLN:O	1:I:3385:SER:O	2.37	0.42
1:H:2873:GLU:O	1:H:2875:PHE:N	2.49	0.42
1:H:2975:SER:HB2	1:H:3030:GLU:OE1	2.20	0.42
1:H:3104:LEU:HD11	1:H:3106:LEU:HD11	2.02	0.42
1:J:3869:ASP:HA	1:J:3902:ARG:CA	2.50	0.42
1:K:4159:LEU:HA	1:K:4159:LEU:HD23	1.84	0.42
1:K:4262:LYS:HG2	1:K:4263:LYS:N	2.25	0.42
1:L:4688:LEU:HD11	1:L:4690:LEU:HD11	2.02	0.42
1:A:355:ASP:HA	1:A:388:ARG:CA	2.50	0.42
1:B:544:LEU:HD12	1:B:544:LEU:HA	1.81	0.42
1:C:1025:LYS:CA	1:E:1780:SER:C	2.92	0.42
1:C:1026:ALA:HA	1:E:1780:SER:CB	2.50	0.42
1:C:1056:VAL:HG13	1:E:1832:ARG:CB	2.50	0.42
1:C:1133:LYS:HB3	1:C:1134:THR:H	1.68	0.42
2:D:1211:PHE:HB2	1:J:3545:ARG:HH11	1.83	0.42
2:D:1246:TYR:O	1:I:3151:PRO:C	2.63	0.42
2:D:1309:MET:SD	1:F:1968:GLN:NE2	2.91	0.42
2:D:1384:ALA:CA	1:L:4344:GLN:NE2	2.39	0.42
2:D:1431:ASN:HD21	1:M:4742:PHE:CA	2.30	0.42
1:E:1889:ASP:HA	1:E:1922:ARG:CA	2.50	0.42
1:F:2176:SER:CB	1:I:3353:MET:CE	2.42	0.42
1:F:2178:VAL:HB	1:I:3345:LEU:HD21	2.01	0.42
1:F:2312:LEU:HD11	1:F:2314:LEU:HD11	2.02	0.42
1:G:2711:ASN:OD1	1:G:2711:ASN:N	2.52	0.42
1:H:3077:ASP:OD1	1:H:3077:ASP:N	2.52	0.42
1:L:4331:THR:O	1:L:4350:GLN:HA	2.20	0.42
1:M:4829:THR:HG23	1:M:4871:LEU:HD21	2.01	0.42
1:M:5036:GLY:HA3	1:M:5060:ILE:CD1	2.46	0.42
1:M:5086:LEU:O	1:M:5088:ILE:HG23	2.20	0.42
1:A:25:THR:O	1:A:44:GLN:HA	2.20	0.41
1:A:32:MET:HA	1:A:33:PRO:C	2.45	0.41
1:A:89:LYS:HG3	1:A:105:GLN:CD	2.44	0.41
1:A:105:GLN:O	1:A:106:ASN:HB2	2.20	0.41
1:A:132:ASN:HB2	1:A:138:GLU:OE1	2.20	0.41
1:A:248:VAL:HG13	1:A:248:VAL:O	2.19	0.41
1:B:549:PHE:HE2	1:B:577:THR:HG21	1.85	0.41
1:B:693:LEU:HB3	1:J:3813:ASP:HB3	1.50	0.41
1:C:1110:ASP:OD1	1:C:1110:ASP:C	2.62	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:1525:ILE:CD1	1:J:3552:GLN:CD	2.93	0.41
1:E:1639:GLN:O	1:E:1640:ASN:HB2	2.19	0.41
1:F:2190:LYS:HZ1	1:I:3392:SER:CB	2.13	0.41
1:F:2314:LEU:O	1:F:2316:ILE:HG23	2.20	0.41
1:G:2382:ILE:HD12	1:G:2382:ILE:HA	1.86	0.41
1:G:2458:ASN:HB2	1:G:2464:GLU:OE1	2.20	0.41
1:G:2681:ASP:HA	1:G:2714:ARG:CA	2.50	0.41
1:I:3235:ASP:HA	1:I:3318:ASN:HD21	1.85	0.41
1:I:3277:ALA:C	1:I:3278:ILE:CG1	2.93	0.41
1:J:3606:GLY:HA3	1:J:3723:MET:HB3	2.02	0.41
1:K:4163:SER:HB2	1:K:4218:GLU:OE1	2.20	0.41
1:K:4228:ASP:OD1	1:K:4228:ASP:C	2.62	0.41
1:K:4292:LEU:HD11	1:K:4294:LEU:HD11	2.02	0.41
1:L:4407:LEU:HD23	1:L:4407:LEU:HA	1.78	0.41
1:L:4411:GLN:O	1:L:4412:ASN:HB2	2.19	0.41
1:L:4562:LYS:C	1:L:4562:LYS:CD	2.93	0.41
1:L:4563:ALA:HB3	1:L:4611:VAL:HG11	1.93	0.41
1:L:4690:LEU:O	1:L:4692:ILE:HG23	2.20	0.41
1:M:4834:ASN:HB2	1:M:4840:GLU:OE1	2.20	0.41
1:A:214:GLN:NE2	1:A:313:SER:O	2.54	0.41
1:B:513:ASP:HA	1:B:596:ASN:HD21	1.85	0.41
1:B:547:GLU:O	1:B:549:PHE:N	2.49	0.41
1:B:751:ASP:HA	1:B:784:ARG:CA	2.50	0.41
1:C:943:GLU:N	1:C:943:GLU:CD	2.78	0.41
1:C:1027:MET:H	1:E:1779:VAL:C	2.25	0.41
1:C:1147:ASP:OD1	1:C:1147:ASP:N	2.52	0.41
2:D:1302:THR:CG2	1:K:3949:PHE:CE1	2.75	0.41
2:D:1444:ALA:H	1:M:4740:GLN:H	1.65	0.41
2:D:1516:ARG:CD	1:H:2952:GLU:OE2	2.68	0.41
1:E:1918:LEU:O	1:E:1920:ILE:HG23	2.20	0.41
1:F:2147:ARG:HD3	1:F:2240:GLN:HE22	1.86	0.41
1:F:2177:GLN:HA	1:I:3345:LEU:CD2	2.50	0.41
1:F:2248:ASP:OD1	1:F:2248:ASP:C	2.62	0.41
1:G:2479:PHE:HE2	1:G:2507:THR:HG21	1.85	0.41
1:G:2575:LEU:HA	1:G:2575:LEU:HD23	1.85	0.41
1:G:2627:LYS:CG	1:M:4999:LEU:CG	2.95	0.41
1:G:2681:ASP:OD1	1:G:2681:ASP:N	2.52	0.41
1:H:2814:GLY:HA3	1:H:2931:MET:HB3	2.03	0.41
1:H:2873:GLU:CD	1:H:2873:GLU:N	2.79	0.41
1:H:2981:ILE:CG2	1:H:2982:LYS:N	2.82	0.41
1:H:3077:ASP:HA	1:H:3110:ARG:CA	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:3200:ASP:OD1	1:I:3200:ASP:C	2.60	0.41
1:I:3470:LYS:HG2	1:I:3471:LYS:N	2.25	0.41
1:J:3665:GLU:CD	1:J:3665:GLU:N	2.79	0.41
1:J:3667:PHE:HE2	1:J:3695:THR:HG21	1.85	0.41
1:K:3966:ILE:HD12	1:K:3966:ILE:HA	1.86	0.41
1:K:4127:ARG:HD3	1:K:4220:GLN:HE22	1.86	0.41
1:K:4159:LEU:HA	1:K:4160:PRO:HD3	1.89	0.41
1:L:4308:MET:HA	1:L:4309:PRO:HD3	1.93	0.41
1:L:4338:MET:HA	1:L:4339:PRO:C	2.45	0.41
1:L:4640:GLY:HA3	1:L:4664:ILE:CD1	2.45	0.41
1:L:4666:ALA:HB3	1:L:4669:GLN:HB2	2.01	0.41
1:L:4691:ASN:OD1	1:L:4691:ASN:N	2.52	0.41
1:M:4834:ASN:ND2	1:M:4834:ASN:O	2.54	0.41
1:M:4915:GLY:HA3	1:M:5070:ILE:HB	2.01	0.41
1:A:101:LEU:HA	1:A:101:LEU:HD23	1.78	0.41
1:A:151:GLU:O	1:A:153:PHE:N	2.49	0.41
1:B:752:VAL:HG12	1:B:753:ILE:N	2.34	0.41
1:C:1147:ASP:HA	1:C:1180:ARG:CA	2.50	0.41
2:D:1214:ASN:CB	1:J:3548:ARG:CB	2.82	0.41
2:D:1389:LYS:CA	1:F:1961:ARG:CB	2.96	0.41
2:D:1444:ALA:O	1:M:4739:GLN:HA	2.19	0.41
2:D:1482:ILE:CD1	1:M:4738:PHE:HD2	2.25	0.41
2:D:1516:ARG:HH22	1:K:4144:ALA:HB1	1.85	0.41
1:E:1666:ASN:HB2	1:E:1672:GLU:OE1	2.20	0.41
1:E:1895:ASN:OD1	1:E:1916:LEU:HA	2.21	0.41
1:F:2057:THR:HG23	1:F:2099:LEU:HD21	2.01	0.41
1:F:2177:GLN:HA	1:I:3350:ALA:CB	2.37	0.41
1:F:2203:ILE:N	1:I:3376:GLY:CA	2.83	0.41
1:G:2358:MET:HA	1:G:2359:PRO:C	2.45	0.41
1:G:2415:LYS:HG3	1:G:2431:GLN:CD	2.44	0.41
1:G:2431:GLN:O	1:G:2432:ASN:HB2	2.20	0.41
1:G:2454:VAL:HG12	1:G:2496:VAL:O	2.20	0.41
1:G:2557:LEU:C	1:M:4936:ALA:C	2.88	0.41
1:G:2623:LEU:HD11	1:M:5000:ARG:HD2	1.75	0.41
1:G:2667:LYS:HB3	1:G:2668:THR:H	1.68	0.41
1:G:2678:LYS:HG2	1:G:2679:LYS:N	2.25	0.41
1:H:2854:ASN:HB2	1:H:2860:GLU:OE1	2.20	0.41
1:H:2936:GLN:NE2	1:H:3035:SER:O	2.54	0.41
1:H:3083:ASN:OD1	1:H:3104:LEU:HA	2.21	0.41
1:H:3085:GLN:HB3	1:H:3086:ALA:H	1.66	0.41
1:I:3374:LYS:C	1:I:3374:LYS:CD	2.93	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:3502:LEU:O	1:I:3504:ILE:HG23	2.20	0.41
1:K:4038:VAL:HG12	1:K:4080:VAL:O	2.20	0.41
1:K:4158:VAL:O	1:K:4158:VAL:HG13	2.19	0.41
1:L:4478:LEU:HD12	1:L:4478:LEU:HA	1.92	0.41
1:L:4519:GLY:HA3	1:L:4674:ILE:HB	2.01	0.41
1:L:4655:ILE:HG23	1:L:4655:ILE:O	2.19	0.41
1:L:4665:GLY:CA	1:L:4691:ASN:HB2	2.34	0.41
1:M:4959:ALA:HB1	1:M:5007:VAL:HG12	1.96	0.41
1:A:30:PRO:CB	2:D:1498:MET:HB3	2.50	0.41
1:A:31:ARG:NH2	2:D:1492:TYR:CD1	2.87	0.41
1:A:217:ARG:HG3	1:A:310:GLN:HE21	1.84	0.41
1:B:623:LEU:CD1	1:B:638:GLY:H	2.34	0.41
1:C:858:ASN:HB2	1:C:861:VAL:HG23	2.03	0.41
1:C:1126:GLY:HA3	1:C:1150:ILE:CD1	2.46	0.41
1:C:1152:ALA:HA	1:C:1157:VAL:CG2	2.51	0.41
2:D:1409:TYR:HD1	1:L:4342:PHE:N	2.17	0.41
2:D:1475:ARG:HD2	1:M:4734:MET:CB	2.50	0.41
1:E:1782:VAL:HG13	1:E:1782:VAL:O	2.19	0.41
1:E:1787:SER:HB2	1:E:1842:GLU:OE1	2.20	0.41
1:F:2179:LEU:C	1:I:3358:GLN:N	2.65	0.41
1:F:2189:ILE:CA	1:I:3384:THR:HA	2.36	0.41
1:F:2225:GLY:O	1:I:3377:ILE:HG13	2.13	0.41
1:H:2747:THR:O	1:H:2766:GLN:HA	2.20	0.41
1:H:2854:ASN:ND2	1:H:2854:ASN:O	2.53	0.41
1:H:2881:ALA:C	1:H:2882:ILE:CG1	2.93	0.41
1:H:2939:ARG:HD3	1:H:3032:GLN:HE22	1.86	0.41
1:H:2957:MET:HG3	1:K:4146:LYS:N	2.24	0.41
1:I:3246:VAL:HG12	1:I:3288:VAL:O	2.20	0.41
1:J:3619:GLN:O	1:J:3620:ASN:HB2	2.20	0.41
1:J:3809:GLY:HA2	1:J:3816:GLN:CG	2.51	0.41
1:J:3874:ALA:HB3	1:J:3877:GLN:HB2	2.02	0.41
1:K:3935:THR:O	1:K:3954:GLN:HA	2.20	0.41
1:K:3976:ASN:HB2	1:K:3979:VAL:HG23	2.03	0.41
1:K:4042:ASN:HB2	1:K:4048:GLU:OE1	2.20	0.41
1:K:4061:GLU:N	1:K:4061:GLU:CD	2.79	0.41
1:K:4063:PHE:HE2	1:K:4091:THR:HG21	1.85	0.41
1:K:4270:ALA:HB3	1:K:4273:GLN:HB2	2.02	0.41
1:L:4669:GLN:HB3	1:L:4670:ALA:H	1.65	0.41
1:M:4919:ARG:HD3	1:M:5012:GLN:HE22	1.86	0.41
1:M:5021:SER:HA	1:M:5074:ARG:HD3	2.03	0.41
1:A:43:GLN:OE1	2:D:1494:PHE:HE1	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:253:SER:HB2	1:A:308:GLU:OE1	2.20	0.41
1:B:430:ARG:HB2	2:D:1196:GLY:HA3	1.33	0.41
1:B:434:GLN:NE2	2:D:1231:GLU:H	2.07	0.41
1:B:528:ASN:ND2	1:B:528:ASN:O	2.54	0.41
1:B:778:LEU:HD11	1:B:780:LEU:HD11	2.02	0.41
1:C:1115:PHE:O	1:C:1116:ASN:OD1	2.39	0.41
2:D:1246:TYR:HD2	1:I:3151:PRO:C	2.12	0.41
2:D:1325:PHE:HA	1:G:2358:MET:HA	1.18	0.41
2:D:1333:PHE:CZ	1:G:2366:PHE:HB3	2.55	0.41
2:D:1444:ALA:CB	1:M:4739:GLN:HA	2.26	0.41
1:E:1566:MET:HA	1:E:1567:PRO:C	2.45	0.41
1:E:1623:LYS:HG3	1:E:1639:GLN:CD	2.44	0.41
1:E:1651:ASP:HA	1:E:1734:ASN:HD21	1.85	0.41
1:E:1868:GLY:HA3	1:E:1892:ILE:CD1	2.46	0.41
1:E:1916:LEU:HD11	1:E:1918:LEU:HD11	2.02	0.41
1:F:1996:ASN:HB2	1:F:1999:VAL:HG23	2.03	0.41
1:F:2058:VAL:HG12	1:F:2100:VAL:O	2.20	0.41
1:F:2081:GLU:CD	1:F:2081:GLU:N	2.78	0.41
1:F:2183:SER:HB2	1:F:2238:GLU:OE1	2.20	0.41
1:F:2203:ILE:N	1:I:3377:ILE:H	2.15	0.41
1:F:2279:ILE:HG23	1:F:2279:ILE:O	2.19	0.41
1:F:2285:ASP:OD1	1:F:2285:ASP:N	2.52	0.41
1:H:2970:VAL:O	1:H:2970:VAL:HG13	2.19	0.41
1:H:3042:SER:HB3	1:H:3044:ILE:HG22	2.03	0.41
1:J:3545:ARG:NH1	1:J:3545:ARG:CG	2.84	0.41
1:J:3646:ASN:HB2	1:J:3652:GLU:OE1	2.20	0.41
1:J:3896:LEU:HD11	1:J:3898:LEU:HD11	2.02	0.41
1:K:4015:GLN:O	1:K:4016:ASN:HB2	2.19	0.41
1:K:4124:GLN:NE2	1:K:4223:SER:O	2.54	0.41
1:K:4265:ASP:OD1	1:K:4265:ASP:N	2.52	0.41
1:L:4434:VAL:HG12	1:L:4476:VAL:O	2.20	0.41
1:L:4520:GLN:NE2	1:L:4619:SER:O	2.54	0.41
1:M:4887:ALA:HB1	1:M:4888:PRO:HD3	1.43	0.41
1:M:4916:GLN:NE2	1:M:5015:SER:O	2.54	0.41
1:M:4958:LYS:C	1:M:4958:LYS:CD	2.93	0.41
1:M:5020:ASP:OD1	1:M:5020:ASP:C	2.62	0.41
1:M:5063:ASN:OD1	1:M:5084:LEU:HA	2.21	0.41
1:M:5087:ASN:OD1	1:M:5087:ASN:N	2.52	0.41
1:A:30:PRO:HB3	2:D:1498:MET:HB3	2.03	0.41
1:A:35:ASN:N	2:D:1533:GLN:CD	2.57	0.41
1:A:159:ALA:C	1:A:160:ILE:CG1	2.93	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:323:PHE:O	1:A:324:ASN:OD1	2.39	0.41
1:B:547:GLU:CD	1:B:547:GLU:N	2.78	0.41
1:B:610:GLN:NE2	1:B:709:SER:O	2.54	0.41
1:B:756:ALA:HA	1:B:761:VAL:CG2	2.51	0.41
1:C:817:THR:O	1:C:836:GLN:HA	2.20	0.41
1:C:1028:LYS:CD	1:E:1758:GLY:HA3	2.47	0.41
1:C:1041:LEU:HA	1:C:1042:PRO:HD3	1.89	0.41
2:D:1396:THR:CG2	1:H:2752:PRO:O	2.67	0.41
1:E:1685:GLU:CD	1:E:1685:GLU:N	2.79	0.41
1:E:1854:SER:HB3	1:E:1856:ILE:HG22	2.03	0.41
1:F:2047:ASP:HA	1:F:2130:ASN:HD21	1.85	0.41
1:F:2062:ASN:ND2	1:F:2062:ASN:O	2.54	0.41
1:F:2083:PHE:HE2	1:F:2111:THR:HG21	1.85	0.41
1:F:2185:ALA:HB3	1:I:3357:ALA:HA	1.99	0.41
1:F:2208:ALA:HB3	1:I:3378:LYS:CD	2.50	0.41
1:F:2250:SER:HB3	1:F:2252:ILE:HG22	2.03	0.41
1:G:2351:THR:O	1:G:2370:GLN:HA	2.20	0.41
1:G:2644:ASP:OD1	1:G:2644:ASP:C	2.62	0.41
1:G:2649:PHE:O	1:G:2650:ASN:OD1	2.39	0.41
1:H:2754:MET:HA	1:H:2755:PRO:O	2.18	0.41
1:I:3210:GLY:HA3	1:I:3327:MET:HB3	2.02	0.41
1:I:3269:GLU:CD	1:I:3269:GLU:N	2.79	0.41
1:I:3335:ARG:HG3	1:I:3428:GLN:HE21	1.84	0.41
1:J:3539:THR:O	1:J:3558:GLN:HA	2.20	0.41
1:J:3767:SER:HB2	1:J:3822:GLU:OE1	2.20	0.41
1:J:3832:ASP:OD1	1:J:3832:ASP:C	2.62	0.41
1:L:4372:ASN:HB2	1:L:4375:VAL:HG23	2.03	0.41
1:L:4398:GLY:HA3	1:L:4515:MET:HB3	2.03	0.41
1:L:4629:PHE:O	1:L:4630:ASN:OD1	2.39	0.41
1:L:4635:LYS:HB2	1:L:4642:VAL:CB	2.50	0.41
1:M:4727:THR:O	1:M:4746:GLN:HA	2.20	0.41
1:M:4853:GLU:O	1:M:4855:PHE:N	2.49	0.41
1:M:4861:ALA:C	1:M:4862:ILE:CG1	2.93	0.41
1:M:5062:ALA:HA	1:M:5067:VAL:CG2	2.51	0.41
1:A:132:ASN:ND2	1:A:132:ASN:O	2.54	0.41
1:A:217:ARG:HD3	1:A:310:GLN:HE22	1.86	0.41
1:A:298:ARG:HG2	1:L:4570:VAL:N	2.35	0.41
1:A:298:ARG:CG	1:L:4569:ASP:HB3	2.45	0.41
1:B:652:LYS:C	1:B:652:LYS:CD	2.93	0.41
1:B:719:PHE:O	1:B:720:ASN:OD1	2.39	0.41
1:B:757:ASN:OD1	1:B:778:LEU:HA	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:780:LEU:O	1:B:782:ILE:N	2.54	0.41
1:C:1090:ARG:CD	1:E:1800:THR:HB	2.44	0.41
2:D:1367:GLY:HA3	1:F:1965:ASN:HB3	0.97	0.41
2:D:1431:ASN:OD1	1:M:4742:PHE:HB3	2.21	0.41
2:D:1475:ARG:CD	1:M:4734:MET:CB	2.99	0.41
1:E:1687:PHE:HE2	1:E:1715:THR:HG21	1.85	0.41
1:E:1751:ARG:HD3	1:E:1844:GLN:HE22	1.86	0.41
1:F:2176:SER:HB2	1:I:3353:MET:HE3	0.57	0.41
1:F:2177:GLN:HE21	1:I:3355:VAL:HG22	1.85	0.41
1:F:2198:LEU:HD21	1:I:3419:LYS:HD3	1.27	0.41
1:G:2380:VAL:CG2	1:G:2494:ALA:HB2	2.51	0.41
1:G:2477:GLU:CD	1:G:2477:GLU:N	2.79	0.41
1:G:2626:GLY:N	1:M:5001:ASP:H	2.10	0.41
1:H:2788:ASN:HB2	1:H:2791:VAL:HG23	2.03	0.41
1:H:2882:ILE:HD12	1:H:2882:ILE:N	2.36	0.41
1:H:3041:SER:HA	1:H:3094:ARG:HD3	2.03	0.41
1:I:3250:ASN:ND2	1:I:3250:ASN:O	2.53	0.41
1:I:3332:GLN:NE2	1:I:3431:SER:O	2.54	0.41
1:I:3441:PHE:O	1:I:3442:ASN:OD1	2.39	0.41
1:I:3478:ALA:HA	1:I:3483:VAL:CG2	2.51	0.41
1:J:3631:ASP:HA	1:J:3714:ASN:HD21	1.85	0.41
1:J:3642:VAL:HG12	1:J:3684:VAL:O	2.20	0.41
1:J:3875:ASN:OD1	1:J:3896:LEU:HA	2.21	0.41
1:K:4002:GLY:HA3	1:K:4119:MET:HB3	2.03	0.41
1:K:4027:ASP:HA	1:K:4110:ASN:HD21	1.85	0.41
1:K:4042:ASN:ND2	1:K:4042:ASN:O	2.54	0.41
1:K:4069:ALA:C	1:K:4070:ILE:CG1	2.93	0.41
1:K:4295:ASN:OD1	1:K:4295:ASN:N	2.52	0.41
1:L:4661:ASP:HA	1:L:4694:ARG:CA	2.50	0.41
1:L:4666:ALA:HA	1:L:4671:VAL:CG2	2.51	0.41
1:M:4807:GLN:O	1:M:4808:ASN:HB2	2.20	0.41
1:M:4850:LEU:HD12	1:M:4850:LEU:HA	1.81	0.41
1:M:4853:GLU:CD	1:M:4853:GLU:N	2.79	0.41
1:M:4929:LEU:CD1	1:M:4944:GLY:H	2.34	0.41
1:M:5031:LYS:HB2	1:M:5038:VAL:CB	2.50	0.41
1:A:33:PRO:CA	2:D:1532:TYR:N	2.81	0.41
1:A:151:GLU:CD	1:A:151:GLU:N	2.79	0.41
1:A:153:PHE:HE2	1:A:181:THR:HG21	1.85	0.41
1:A:227:LEU:CD1	1:A:242:GLY:H	2.34	0.41
1:C:924:ASN:ND2	1:C:924:ASN:O	2.54	0.41
1:C:952:ILE:N	1:C:952:ILE:HD12	2.36	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1006:GLN:NE2	1:C:1105:SER:O	2.54	0.41
2:D:1208:LEU:HG	1:J:3555:GLY:C	2.19	0.41
2:D:1279:GLY:C	1:E:1569:ASN:OD1	2.60	0.41
2:D:1389:LYS:HE2	1:F:1960:PRO:CB	2.47	0.41
2:D:1450:VAL:C	1:K:3943:PRO:CB	2.91	0.41
1:E:1588:VAL:CG2	1:E:1702:ALA:HB2	2.51	0.41
1:E:1761:LEU:CD1	1:E:1776:GLY:H	2.34	0.41
1:E:1790:LYS:C	1:E:1790:LYS:CD	2.93	0.41
1:F:2178:VAL:HB	1:I:3345:LEU:CD2	2.51	0.41
1:F:2193:ASP:CG	1:I:3361:ALA:O	2.63	0.41
1:G:2418:GLY:HA3	1:G:2535:MET:HB3	2.02	0.41
1:G:2553:LEU:CD1	1:G:2568:GLY:H	2.34	0.41
1:G:2579:SER:HB2	1:G:2634:GLU:OE1	2.20	0.41
1:H:2949:LEU:CD1	1:H:2964:GLY:H	2.34	0.41
1:H:3020:ARG:CD	1:K:4207:LEU:HG	2.41	0.41
1:I:3143:THR:O	1:I:3162:GLN:HA	2.20	0.41
1:I:3345:LEU:CD1	1:I:3360:GLY:H	2.34	0.41
1:I:3438:SER:HB3	1:I:3440:ILE:HG22	2.03	0.41
1:I:3478:ALA:HB3	1:I:3481:GLN:HB2	2.01	0.41
1:I:3479:ASN:OD1	1:I:3500:LEU:HA	2.21	0.41
1:J:3570:ILE:HA	1:J:3570:ILE:HD12	1.86	0.41
1:J:3781:SER:HA	1:J:3785:LYS:O	2.21	0.41
1:K:4042:ASN:HA	1:K:4047:GLY:O	2.21	0.41
1:K:4070:ILE:N	1:K:4070:ILE:HD12	2.36	0.41
1:K:4269:GLY:CA	1:K:4295:ASN:HB2	2.34	0.41
1:K:4271:ASN:OD1	1:K:4292:LEU:HA	2.21	0.41
1:L:4337:ARG:CG	1:L:4337:ARG:NH1	2.84	0.41
1:L:4559:SER:HB2	1:L:4614:GLU:OE1	2.20	0.41
1:L:4667:ASN:OD1	1:L:4688:LEU:HA	2.21	0.41
1:A:54:VAL:CG2	1:A:168:ALA:HB2	2.51	0.41
1:A:117:ASP:HA	1:A:200:ASN:HD21	1.85	0.41
1:A:361:ASN:OD1	1:A:382:LEU:HA	2.21	0.41
1:B:524:VAL:HG12	1:B:566:VAL:O	2.20	0.41
1:B:767:LEU:C	1:B:767:LEU:HD13	2.46	0.41
1:C:909:ASP:HA	1:C:992:ASN:HD21	1.85	0.41
1:C:945:PHE:HE2	1:C:973:THR:HG21	1.85	0.41
1:C:961:LEU:HD23	1:C:961:LEU:HA	1.96	0.41
1:C:1009:ARG:HD3	1:C:1102:GLN:HE22	1.86	0.41
1:C:1022:GLU:HB3	1:E:1769:MET:HE2	1.36	0.41
1:C:1028:LYS:O	1:E:1799:ILE:CD1	2.69	0.41
1:C:1056:VAL:HG23	1:E:1835:LYS:HB2	1.64	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:1245:GLU:HA	1:I:3151:PRO:HD2	2.03	0.41
2:D:1318:THR:O	1:G:2363:GLN:HB3	2.16	0.41
2:D:1441:ALA:O	1:M:4740:GLN:CB	2.69	0.41
2:D:1446:ASN:OD1	1:K:3949:PHE:HE2	1.99	0.41
1:E:1559:THR:O	1:E:1578:GLN:HA	2.20	0.41
1:E:1626:GLY:HA3	1:E:1743:MET:HB3	2.03	0.41
1:E:1719:ALA:HB1	1:E:1720:PRO:HD3	1.43	0.41
1:E:1816:GLN:HE21	1:E:1816:GLN:HB3	1.65	0.41
1:E:1853:SER:HA	1:E:1906:ARG:HD3	2.03	0.41
1:E:1905:LEU:HD13	1:E:1905:LEU:C	2.46	0.41
1:E:1916:LEU:HD11	1:E:1918:LEU:CD1	2.51	0.41
1:F:1955:THR:O	1:F:1974:GLN:HA	2.20	0.41
1:F:2090:ILE:N	1:F:2090:ILE:HD12	2.36	0.41
1:F:2154:GLY:HA2	1:I:3353:MET:CB	2.51	0.41
1:F:2195:ILE:CB	1:I:3414:LEU:CD1	2.82	0.41
1:F:2203:ILE:HG23	1:I:3378:LYS:HD2	2.01	0.41
1:F:2209:LEU:HD23	1:I:3416:ARG:HE	1.20	0.41
1:F:2212:GLN:HE21	1:F:2212:GLN:HB3	1.65	0.41
1:F:2225:GLY:HA2	1:F:2232:GLN:CG	2.50	0.41
1:F:2290:ALA:HB3	1:F:2293:GLN:HB2	2.01	0.41
1:F:2312:LEU:HD11	1:F:2314:LEU:CD1	2.51	0.41
1:G:2443:ASP:HA	1:G:2526:ASN:HD21	1.85	0.41
1:G:2458:ASN:ND2	1:G:2458:ASN:O	2.54	0.41
1:G:2486:ILE:N	1:G:2486:ILE:HD12	2.36	0.41
1:G:2621:GLY:HA2	1:G:2628:GLN:CG	2.51	0.41
1:G:2646:SER:HB3	1:G:2648:ILE:HG22	2.03	0.41
1:G:2708:LEU:HD11	1:G:2710:LEU:HD11	2.02	0.41
1:H:2854:ASN:HA	1:H:2859:GLY:O	2.21	0.41
1:H:2957:MET:HG3	1:K:4145:MET:CB	2.51	0.41
1:H:2957:MET:CE	1:K:4145:MET:C	2.75	0.41
1:H:3082:ALA:HA	1:H:3087:VAL:CG2	2.51	0.41
1:I:3437:SER:HA	1:I:3490:ARG:HD3	2.03	0.41
1:I:3502:LEU:O	1:I:3504:ILE:N	2.54	0.41
1:J:3568:VAL:CG2	1:J:3682:ALA:HB2	2.51	0.41
1:J:3762:VAL:O	1:J:3762:VAL:HG13	2.19	0.41
1:J:3833:SER:HA	1:J:3886:ARG:HD3	2.03	0.41
1:J:3896:LEU:HD11	1:J:3898:LEU:CD1	2.51	0.41
1:J:3898:LEU:O	1:J:3900:ILE:HG23	2.20	0.41
1:K:4166:LYS:C	1:K:4166:LYS:CD	2.93	0.41
1:L:4423:ASP:HA	1:L:4506:ASN:HD21	1.85	0.41
1:L:4475:LEU:HD23	1:L:4475:LEU:HA	1.96	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:4626:SER:HB3	1:L:4628:ILE:HG22	2.03	0.41
1:M:4794:GLY:HA3	1:M:4911:MET:HB3	2.03	0.41
1:M:4997:GLY:HA2	1:M:5004:GLN:CG	2.50	0.41
1:M:5022:SER:HB3	1:M:5024:ILE:HG22	2.03	0.41
1:M:5080:LYS:HE3	1:M:5080:LYS:HB2	1.97	0.41
1:A:195:PHE:CD1	1:A:195:PHE:N	2.89	0.41
1:A:267:SER:HA	1:A:271:LYS:O	2.21	0.41
1:A:382:LEU:HD11	1:A:384:LEU:CD1	2.51	0.41
1:B:452:ILE:HA	1:B:452:ILE:HD12	1.86	0.41
1:B:462:ASN:HB2	1:B:465:VAL:HG23	2.03	0.41
1:C:920:VAL:HG12	1:C:962:VAL:O	2.20	0.41
1:C:1036:PHE:HZ	1:E:1796:GLY:O	1.94	0.41
2:D:1320:ARG:O	1:G:2364:GLN:HB3	2.11	0.41
2:D:1431:ASN:N	1:M:4740:GLN:O	2.54	0.41
2:D:1466:LEU:N	1:K:3950:PHE:CB	2.59	0.41
1:E:1600:ASN:HB2	1:E:1603:VAL:HG23	2.03	0.41
1:E:1856:ILE:CG2	1:E:1857:PHE:H	2.05	0.41
1:E:1856:ILE:CG2	1:E:1857:PHE:N	2.67	0.41
1:F:2185:ALA:HB3	1:I:3357:ALA:CB	2.49	0.41
1:F:2231:LYS:HE2	1:I:3397:LEU:HD23	0.83	0.41
1:F:2290:ALA:HA	1:F:2295:VAL:CG2	2.51	0.41
1:G:2540:GLN:NE2	1:G:2639:SER:O	2.54	0.41
1:G:2689:GLN:HB3	1:G:2690:ALA:H	1.65	0.41
1:I:3271:PHE:HE2	1:I:3299:THR:HG21	1.85	0.41
1:I:3290:LEU:HD12	1:I:3290:LEU:HA	1.92	0.41
1:I:3335:ARG:HD3	1:I:3428:GLN:HE22	1.86	0.41
1:I:3367:LEU:HD23	1:I:3367:LEU:HA	1.85	0.41
1:J:3646:ASN:ND2	1:J:3646:ASN:O	2.53	0.41
1:J:3728:GLN:NE2	1:J:3827:SER:O	2.54	0.41
1:J:3763:LEU:HA	1:J:3763:LEU:HD23	1.85	0.41
1:J:3834:SER:HB3	1:J:3836:ILE:HG22	2.03	0.41
1:J:3899:ASN:OD1	1:J:3899:ASN:N	2.52	0.41
1:K:4294:LEU:O	1:K:4296:ILE:N	2.54	0.41
1:L:4501:PHE:N	1:L:4501:PHE:CD1	2.89	0.41
1:L:4573:SER:HA	1:L:4577:LYS:O	2.21	0.41
1:M:4855:PHE:HE2	1:M:4883:THR:HG21	1.85	0.41
1:M:5025:PHE:O	1:M:5026:ASN:OD1	2.39	0.41
1:M:5073:LEU:HD13	1:M:5073:LEU:C	2.46	0.41
1:M:5084:LEU:HD11	1:M:5086:LEU:CD1	2.51	0.41
1:A:160:ILE:HD12	1:A:160:ILE:N	2.36	0.40
1:A:352:LYS:HG2	1:A:353:LYS:N	2.25	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:421:THR:O	1:B:440:GLN:HA	2.20	0.40
1:B:591:PHE:N	1:B:591:PHE:CD1	2.89	0.40
2:D:1226:LEU:HB3	1:I:3150:MET:C	2.37	0.40
1:E:1694:ILE:HD12	1:E:1694:ILE:N	2.36	0.40
1:E:1748:GLN:NE2	1:E:1847:SER:O	2.54	0.40
1:E:1857:PHE:O	1:E:1858:ASN:OD1	2.39	0.40
1:F:2125:PHE:N	1:F:2125:PHE:CD1	2.89	0.40
1:F:2140:VAL:HG12	1:F:2141:GLU:N	2.36	0.40
1:F:2194:VAL:CG2	1:I:3365:GLN:H	2.30	0.40
1:G:2392:ASN:HB2	1:G:2395:VAL:HG23	2.03	0.40
1:G:2591:ILE:HG13	1:G:2622:LEU:HD23	2.03	0.40
1:G:2657:LYS:HB2	1:G:2658:ASP:H	1.76	0.40
1:H:2870:LEU:HD12	1:H:2870:LEU:HA	1.81	0.40
1:H:2960:ASP:OD1	1:K:4170:LYS:CA	2.70	0.40
1:H:2978:LYS:C	1:H:2978:LYS:CD	2.93	0.40
1:I:3313:PHE:N	1:I:3313:PHE:CD1	2.89	0.40
1:I:3385:SER:HA	1:I:3389:LYS:O	2.21	0.40
1:J:3580:ASN:HB2	1:J:3583:VAL:HG23	2.03	0.40
1:J:3649:GLY:C	1:J:3651:GLY:H	2.29	0.40
1:K:4105:PHE:CD1	1:K:4105:PHE:N	2.89	0.40
1:K:4137:LEU:CD1	1:K:4152:GLY:H	2.34	0.40
1:K:4230:SER:HB3	1:K:4232:ILE:HG22	2.03	0.40
1:L:4433:THR:HG23	1:L:4475:LEU:HD21	2.01	0.40
1:L:4457:GLU:CD	1:L:4457:GLU:N	2.79	0.40
1:L:4533:LEU:CD1	1:L:4548:GLY:H	2.34	0.40
1:L:4625:SER:HA	1:L:4678:ARG:HD3	2.03	0.40
1:M:4946:PHE:HE2	1:M:4964:GLY:HA2	1.82	0.40
1:A:249:LEU:HA	1:A:250:PRO:HD3	1.89	0.40
1:A:256:LYS:C	1:A:256:LYS:CD	2.93	0.40
1:A:371:LEU:C	1:A:371:LEU:HD13	2.46	0.40
1:B:446:LEU:HD23	1:B:446:LEU:O	2.22	0.40
1:B:497:LEU:HD23	1:B:497:LEU:HA	1.78	0.40
1:B:556:ILE:HD12	1:B:556:ILE:N	2.36	0.40
1:B:613:ARG:HD3	1:B:706:GLN:HE22	1.86	0.40
1:B:716:SER:HB3	1:B:718:ILE:HG22	2.03	0.40
1:C:1024:ALA:C	1:E:1779:VAL:O	2.64	0.40
1:C:1028:LYS:HE2	1:E:1757:MET:H	1.74	0.40
2:D:1213:ASP:N	1:J:3545:ARG:H	2.18	0.40
2:D:1214:ASN:CB	1:J:3548:ARG:HB3	2.51	0.40
2:D:1368:VAL:O	1:F:1965:ASN:HA	2.20	0.40
2:D:1405:ARG:C	1:F:1963:PRO:HD3	2.46	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:1441:ALA:HA	1:M:4736:ARG:HA	1.94	0.40
1:E:1666:ASN:ND2	1:E:1666:ASN:O	2.53	0.40
1:E:1894:ALA:HA	1:E:1899:VAL:CG2	2.51	0.40
1:F:2022:GLY:HA3	1:F:2139:MET:HB3	2.03	0.40
1:F:2089:ALA:C	1:F:2090:ILE:CG1	2.93	0.40
1:F:2231:LYS:NZ	1:I:3400:GLN:C	2.79	0.40
1:G:2477:GLU:O	1:G:2479:PHE:N	2.49	0.40
1:G:2485:ALA:C	1:G:2486:ILE:CG1	2.93	0.40
1:G:2543:ARG:HD3	1:G:2636:GLN:HE22	1.86	0.40
1:G:2593:SER:HA	1:G:2597:LYS:O	2.21	0.40
1:H:2776:VAL:CG2	1:H:2890:ALA:HB2	2.51	0.40
1:H:2875:PHE:HE2	1:H:2903:THR:HG21	1.85	0.40
1:H:3053:LYS:HB2	1:H:3054:ASP:H	1.76	0.40
1:H:3106:LEU:O	1:H:3108:ILE:N	2.54	0.40
1:I:3473:ASP:HA	1:I:3506:ARG:CA	2.50	0.40
1:J:3564:LEU:HD23	1:J:3564:LEU:O	2.22	0.40
1:J:3731:ARG:HD3	1:J:3824:GLN:HE22	1.86	0.40
1:K:3964:VAL:CG2	1:K:4078:ALA:HB2	2.51	0.40
1:K:4127:ARG:HG3	1:K:4220:GLN:HE21	1.84	0.40
1:L:4571:ILE:HG13	1:L:4602:LEU:HD23	2.04	0.40
1:M:5067:VAL:O	1:M:5067:VAL:CG1	2.65	0.40
1:A:135:GLY:C	1:A:137:GLY:H	2.29	0.40
1:A:265:ILE:HG13	1:A:296:LEU:HD23	2.03	0.40
1:B:630:ALA:O	1:J:3750:LYS:HA	0.59	0.40
1:C:848:ILE:HA	1:C:848:ILE:HD12	1.86	0.40
1:C:1036:PHE:CE1	1:E:1796:GLY:O	2.74	0.40
2:D:1324:PHE:HE2	1:G:2357:ARG:CG	1.94	0.40
2:D:1446:ASN:CG	1:K:3949:PHE:CZ	3.00	0.40
1:E:1801:SER:HA	1:E:1805:LYS:O	2.21	0.40
1:F:1984:VAL:CG2	1:F:2098:ALA:HB2	2.51	0.40
1:F:2193:ASP:CG	1:I:3361:ALA:C	2.86	0.40
1:F:2193:ASP:OD1	1:I:3397:LEU:HD12	2.22	0.40
1:F:2223:THR:HG23	1:I:3420:GLN:O	2.20	0.40
1:F:2224:LEU:C	1:I:3412:LEU:O	2.57	0.40
1:F:2239:LEU:HD12	1:F:2240:GLN:O	2.22	0.40
1:G:2645:SER:HA	1:G:2698:ARG:HD3	2.03	0.40
1:G:2697:LEU:HD13	1:G:2697:LEU:C	2.46	0.40
1:H:2772:LEU:HD23	1:H:2772:LEU:O	2.22	0.40
1:H:2778:ILE:HD12	1:H:2778:ILE:HA	1.86	0.40
1:H:3045:PHE:CD1	1:H:3046:ASN:N	2.90	0.40
1:I:3149:ARG:CG	1:I:3149:ARG:NH1	2.84	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:3184:ASN:HB2	1:I:3187:VAL:HG23	2.03	0.40
1:I:3278:ILE:N	1:I:3278:ILE:HD12	2.36	0.40
1:J:3646:ASN:HA	1:J:3651:GLY:O	2.21	0.40
1:J:3673:ALA:C	1:J:3674:ILE:CG1	2.94	0.40
1:J:3674:ILE:N	1:J:3674:ILE:HD12	2.36	0.40
1:J:3779:ILE:HG13	1:J:3810:LEU:HD23	2.04	0.40
1:K:3960:LEU:HD23	1:K:3960:LEU:O	2.22	0.40
1:K:4292:LEU:HD11	1:K:4294:LEU:CD1	2.51	0.40
1:L:4438:ASN:HA	1:L:4443:GLY:O	2.21	0.40
1:L:4465:ALA:C	1:L:4466:ILE:CG1	2.93	0.40
1:L:4523:ARG:HD3	1:L:4616:GLN:HE22	1.86	0.40
1:L:4658:LYS:HG2	1:L:4659:LYS:N	2.25	0.40
1:M:4969:SER:HA	1:M:4973:LYS:O	2.21	0.40
1:A:319:SER:HA	1:A:372:ARG:HD3	2.03	0.40
1:C:924:ASN:HA	1:C:929:GLY:O	2.21	0.40
1:C:1063:LYS:HA	1:C:1064:PRO:HD3	1.82	0.40
1:C:1144:LYS:CG	1:C:1145:LYS:H	2.20	0.40
2:D:1444:ALA:HA	1:M:4738:PHE:HB2	1.81	0.40
1:E:1565:ARG:CG	1:E:1565:ARG:NH1	2.84	0.40
1:E:1666:ASN:HA	1:E:1671:GLY:O	2.21	0.40
1:E:1799:ILE:HG13	1:E:1830:LEU:HD23	2.04	0.40
1:F:1932:MET:HA	1:F:1933:PRO:HD3	1.93	0.40
1:F:1980:LEU:HD23	1:F:1980:LEU:O	2.22	0.40
1:F:2144:GLN:NE2	1:F:2243:SER:O	2.54	0.40
1:G:2565:ALA:HB1	1:G:2567:ARG:CZ	2.52	0.40
1:G:2708:LEU:HD11	1:G:2710:LEU:CD1	2.51	0.40
1:H:2917:PHE:CD1	1:H:2917:PHE:N	2.89	0.40
1:H:2979:ALA:HB3	1:H:3027:VAL:HG11	1.93	0.40
1:H:3031:LEU:HD12	1:H:3032:GLN:O	2.22	0.40
1:H:3104:LEU:HD11	1:H:3106:LEU:CD1	2.51	0.40
1:I:3120:MET:HA	1:I:3121:PRO:HD3	1.93	0.40
1:I:3154:PHE:HZ	1:J:3553:PHE:CZ	2.40	0.40
1:I:3500:LEU:HD11	1:I:3502:LEU:CD1	2.51	0.40
1:J:3753:ALA:HB1	1:J:3755:ARG:CZ	2.52	0.40
1:J:3837:PHE:O	1:J:3838:ASN:OD1	2.39	0.40
1:K:4177:SER:HA	1:K:4181:LYS:O	2.21	0.40
1:K:4270:ALA:HA	1:K:4275:VAL:CG2	2.51	0.40
1:L:4565:ILE:CG2	1:L:4566:LYS:N	2.82	0.40
1:M:4756:VAL:CG2	1:M:4870:ALA:HB2	2.51	0.40
1:M:4837:GLY:C	1:M:4839:GLY:H	2.29	0.40
1:M:4897:PHE:CD1	1:M:4897:PHE:N	2.89	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:4941:ALA:HB1	1:M:4943:ARG:CZ	2.52	0.40
1:A:320:SER:HB3	1:A:322:ILE:HG22	2.03	0.40
1:A:360:ALA:HA	1:A:365:VAL:CG2	2.51	0.40
1:A:384:LEU:O	1:A:386:ILE:N	2.54	0.40
1:B:452:ILE:CG1	1:B:511:MET:HE2	2.34	0.40
1:B:531:GLY:C	1:B:533:GLY:H	2.30	0.40
1:B:621:THR:HB	1:B:622:GLU:H	1.62	0.40
1:B:691:GLY:HA2	1:B:698:GLN:CG	2.50	0.40
1:C:824:MET:HA	1:C:825:PRO:O	2.18	0.40
1:C:846:VAL:CG2	1:C:960:ALA:HB2	2.51	0.40
1:C:1019:LEU:CD1	1:C:1034:GLY:H	2.34	0.40
1:C:1023:LEU:CD1	1:E:1771:VAL:HG12	2.29	0.40
1:C:1032:GLN:O	1:E:1794:LYS:NZ	2.54	0.40
1:C:1057:ILE:HG13	1:C:1088:LEU:HD23	2.03	0.40
1:C:1059:SER:HA	1:C:1063:LYS:O	2.21	0.40
2:D:1477:TYR:CD2	1:M:4734:MET:HG2	2.56	0.40
1:E:1857:PHE:CD1	1:E:1858:ASN:N	2.90	0.40
1:F:2195:ILE:HA	1:I:3377:ILE:HD13	2.03	0.40
1:F:2197:SER:O	1:I:3421:VAL:CG2	2.67	0.40
1:F:2249:SER:HA	1:F:2302:ARG:HD3	2.03	0.40
1:F:2314:LEU:O	1:F:2316:ILE:N	2.54	0.40
1:G:2687:ASN:OD1	1:G:2708:LEU:HA	2.21	0.40
1:I:3172:VAL:CG2	1:I:3286:ALA:HB2	2.51	0.40
1:I:3403:THR:O	1:I:3403:THR:CG2	2.70	0.40
1:I:3473:ASP:OD1	1:I:3473:ASP:N	2.52	0.40
1:J:3709:PHE:CD1	1:J:3709:PHE:N	2.89	0.40
1:J:3874:ALA:HA	1:J:3879:VAL:CG2	2.51	0.40
1:K:4169:ILE:CG2	1:K:4170:LYS:N	2.82	0.40
1:L:4356:LEU:HD23	1:L:4356:LEU:O	2.22	0.40
1:L:4438:ASN:ND2	1:L:4438:ASN:O	2.53	0.40
1:L:4441:GLY:C	1:L:4443:GLY:H	2.29	0.40
1:L:4459:PHE:HE2	1:L:4487:THR:HG21	1.85	0.40
1:M:4752:LEU:HD23	1:M:4752:LEU:O	2.22	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	388/448 (87%)	318 (82%)	49 (13%)	21 (5%)	1	15
1	B	388/448 (87%)	318 (82%)	49 (13%)	21 (5%)	1	15
1	C	388/448 (87%)	318 (82%)	49 (13%)	21 (5%)	1	15
1	E	388/448 (87%)	318 (82%)	49 (13%)	21 (5%)	1	15
1	F	388/448 (87%)	318 (82%)	49 (13%)	21 (5%)	1	15
1	G	388/448 (87%)	318 (82%)	49 (13%)	21 (5%)	1	15
1	H	388/448 (87%)	318 (82%)	49 (13%)	21 (5%)	1	15
1	I	388/448 (87%)	318 (82%)	49 (13%)	21 (5%)	1	15
1	J	388/448 (87%)	318 (82%)	49 (13%)	21 (5%)	1	15
1	K	388/448 (87%)	318 (82%)	49 (13%)	21 (5%)	1	15
1	L	388/448 (87%)	318 (82%)	49 (13%)	21 (5%)	1	15
1	M	388/448 (87%)	318 (82%)	49 (13%)	21 (5%)	1	15
2	D	344/346 (99%)	327 (95%)	17 (5%)	0	100	100
All	All	5000/5722 (87%)	4143 (83%)	605 (12%)	252 (5%)	3	16

All (252) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	186	PRO
1	A	236	LYS
1	A	259	ILE
1	A	288	VAL
1	A	322	ILE
1	A	362	GLN
1	B	582	PRO
1	B	632	LYS
1	B	655	ILE
1	B	684	VAL

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Mol	Chain	Res	Type
1	B	718	ILE
1	B	758	GLN
1	C	978	PRO
1	C	1028	LYS
1	C	1051	ILE
1	C	1080	VAL
1	C	1114	ILE
1	C	1154	GLN
1	E	1720	PRO
1	E	1770	LYS
1	E	1793	ILE
1	E	1822	VAL
1	E	1856	ILE
1	E	1896	GLN
1	F	2116	PRO
1	F	2166	LYS
1	F	2189	ILE
1	F	2218	VAL
1	F	2252	ILE
1	F	2292	GLN
1	G	2512	PRO
1	G	2562	LYS
1	G	2585	ILE
1	G	2614	VAL
1	G	2648	ILE
1	G	2688	GLN
1	H	2908	PRO
1	H	2958	LYS
1	H	2981	ILE
1	H	3010	VAL
1	H	3044	ILE
1	H	3084	GLN
1	I	3304	PRO
1	I	3354	LYS
1	I	3377	ILE
1	I	3406	VAL
1	I	3440	ILE
1	I	3480	GLN
1	J	3700	PRO
1	J	3750	LYS
1	J	3773	ILE
1	J	3802	VAL

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Mol	Chain	Res	Type
1	J	3836	ILE
1	J	3876	GLN
1	K	4096	PRO
1	K	4146	LYS
1	K	4169	ILE
1	K	4198	VAL
1	K	4232	ILE
1	K	4272	GLN
1	L	4492	PRO
1	L	4542	LYS
1	L	4565	ILE
1	L	4594	VAL
1	L	4628	ILE
1	L	4668	GLN
1	M	4888	PRO
1	M	4938	LYS
1	M	4961	ILE
1	M	4990	VAL
1	M	5024	ILE
1	M	5064	GLN
1	A	40	PHE
1	A	136	LEU
1	A	149	GLY
1	A	152	ASN
1	A	166	GLY
1	A	300	GLY
1	A	321	SER
1	A	331	LYS
1	B	436	PHE
1	B	532	LEU
1	B	545	GLY
1	B	548	ASN
1	B	562	GLY
1	B	696	GLY
1	B	717	SER
1	B	727	LYS
1	C	832	PHE
1	C	928	LEU
1	C	941	GLY
1	C	944	ASN
1	C	958	GLY
1	C	1092	GLY

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Mol	Chain	Res	Type
1	C	1113	SER
1	C	1123	LYS
1	E	1574	PHE
1	E	1670	LEU
1	E	1683	GLY
1	E	1686	ASN
1	E	1700	GLY
1	E	1834	GLY
1	E	1855	SER
1	E	1865	LYS
1	F	1970	PHE
1	F	2066	LEU
1	F	2079	GLY
1	F	2082	ASN
1	F	2096	GLY
1	F	2230	GLY
1	F	2251	SER
1	F	2261	LYS
1	G	2366	PHE
1	G	2462	LEU
1	G	2475	GLY
1	G	2478	ASN
1	G	2492	GLY
1	G	2626	GLY
1	G	2647	SER
1	G	2657	LYS
1	H	2762	PHE
1	H	2858	LEU
1	H	2871	GLY
1	H	2874	ASN
1	H	2888	GLY
1	H	3022	GLY
1	H	3043	SER
1	H	3053	LYS
1	I	3158	PHE
1	I	3254	LEU
1	I	3267	GLY
1	I	3270	ASN
1	I	3284	GLY
1	I	3418	GLY
1	I	3439	SER
1	I	3449	LYS

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Mol	Chain	Res	Type
1	J	3554	PHE
1	J	3650	LEU
1	J	3663	GLY
1	J	3666	ASN
1	J	3680	GLY
1	J	3814	GLY
1	J	3835	SER
1	J	3845	LYS
1	K	3950	PHE
1	K	4046	LEU
1	K	4059	GLY
1	K	4062	ASN
1	K	4076	GLY
1	K	4210	GLY
1	K	4231	SER
1	K	4241	LYS
1	L	4346	PHE
1	L	4442	LEU
1	L	4455	GLY
1	L	4458	ASN
1	L	4472	GLY
1	L	4606	GLY
1	L	4627	SER
1	L	4637	LYS
1	M	4742	PHE
1	M	4838	LEU
1	M	4851	GLY
1	M	4854	ASN
1	M	4868	GLY
1	M	5002	GLY
1	M	5023	SER
1	M	5033	LYS
1	A	165	SER
1	A	239	ALA
1	A	241	ARG
1	B	561	SER
1	B	635	ALA
1	B	637	ARG
1	C	957	SER
1	C	1031	ALA
1	C	1033	ARG
1	E	1699	SER

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Mol	Chain	Res	Type
1	E	1773	ALA
1	E	1775	ARG
1	F	2095	SER
1	F	2169	ALA
1	F	2171	ARG
1	G	2491	SER
1	G	2565	ALA
1	G	2567	ARG
1	H	2887	SER
1	H	2961	ALA
1	H	2963	ARG
1	I	3283	SER
1	I	3357	ALA
1	I	3359	ARG
1	J	3679	SER
1	J	3753	ALA
1	J	3755	ARG
1	K	4075	SER
1	K	4149	ALA
1	K	4151	ARG
1	L	4471	SER
1	L	4545	ALA
1	L	4547	ARG
1	M	4867	SER
1	M	4941	ALA
1	M	4943	ARG
1	A	229	SER
1	A	339	ASN
1	A	352	LYS
1	B	625	SER
1	B	735	ASN
1	B	748	LYS
1	C	1021	SER
1	C	1131	ASN
1	C	1144	LYS
1	E	1763	SER
1	E	1873	ASN
1	E	1886	LYS
1	F	2159	SER
1	F	2269	ASN
1	F	2282	LYS
1	G	2555	SER

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Mol	Chain	Res	Type
1	G	2665	ASN
1	G	2678	LYS
1	H	2951	SER
1	H	3061	ASN
1	H	3074	LYS
1	I	3347	SER
1	I	3457	ASN
1	I	3470	LYS
1	J	3743	SER
1	J	3853	ASN
1	J	3866	LYS
1	K	4139	SER
1	K	4249	ASN
1	K	4262	LYS
1	L	4535	SER
1	L	4645	ASN
1	L	4658	LYS
1	M	4931	SER
1	M	5041	ASN
1	M	5054	LYS
1	A	167	GLY
1	B	563	GLY
1	C	959	GLY
1	E	1701	GLY
1	F	2097	GLY
1	G	2493	GLY
1	H	2889	GLY
1	I	3285	GLY
1	J	3681	GLY
1	K	4077	GLY
1	L	4473	GLY
1	M	4869	GLY

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	319/357 (89%)	270 (85%)	49 (15%)	2	12
1	B	319/357 (89%)	270 (85%)	49 (15%)	2	12
1	C	319/357 (89%)	269 (84%)	50 (16%)	2	12
1	E	319/357 (89%)	270 (85%)	49 (15%)	2	12
1	F	319/357 (89%)	270 (85%)	49 (15%)	2	12
1	G	319/357 (89%)	269 (84%)	50 (16%)	2	12
1	H	319/357 (89%)	270 (85%)	49 (15%)	2	12
1	I	319/357 (89%)	270 (85%)	49 (15%)	2	12
1	J	319/357 (89%)	269 (84%)	50 (16%)	2	12
1	K	319/357 (89%)	270 (85%)	49 (15%)	2	12
1	L	319/357 (89%)	270 (85%)	49 (15%)	2	12
1	M	319/357 (89%)	269 (84%)	50 (16%)	2	12
2	D	275/275 (100%)	273 (99%)	2 (1%)	76	81
All	All	4103/4559 (90%)	3509 (86%)	594 (14%)	5	13

All (594) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	2	MET
1	A	17	VAL
1	A	20	ASN
1	A	32	MET
1	A	34	ARG
1	A	40	PHE
1	A	45	GLN
1	A	50	LEU
1	A	56	ILE
1	A	59	ASP
1	A	76	ILE
1	A	91	VAL
1	A	99	ILE
1	A	101	LEU
1	A	110	LEU
1	A	127	THR
1	A	132	ASN
1	A	136	LEU
1	A	140	VAL
1	A	148	LEU

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Mol	Chain	Res	Type
1	A	150	ARG
1	A	151	GLU
1	A	155	GLN
1	A	160	ILE
1	A	169	LEU
1	A	170	VAL
1	A	172	LEU
1	A	186	PRO
1	A	190	ASN
1	A	191	ILE
1	A	206	THR
1	A	223	MET
1	A	236	LYS
1	A	241	ARG
1	A	247	GLN
1	A	256	LYS
1	A	259	ILE
1	A	268	LEU
1	A	271	LYS
1	A	279	LEU
1	A	294	LEU
1	A	303	VAL
1	A	306	ASN
1	A	307	LEU
1	A	309	LEU
1	A	318	ASP
1	A	331	LYS
1	A	336	VAL
1	A	363	GLN
1	B	398	MET
1	B	413	VAL
1	B	416	ASN
1	B	428	MET
1	B	430	ARG
1	B	436	PHE
1	B	441	GLN
1	B	446	LEU
1	B	452	ILE
1	B	455	ASP
1	B	472	ILE
1	B	487	VAL
1	B	495	ILE

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Mol	Chain	Res	Type
1	B	497	LEU
1	B	506	LEU
1	B	523	THR
1	B	528	ASN
1	B	532	LEU
1	B	536	VAL
1	B	544	LEU
1	B	546	ARG
1	B	547	GLU
1	B	551	GLN
1	B	556	ILE
1	B	565	LEU
1	B	566	VAL
1	B	568	LEU
1	B	582	PRO
1	B	586	ASN
1	B	587	ILE
1	B	602	THR
1	B	619	MET
1	B	632	LYS
1	B	637	ARG
1	B	643	GLN
1	B	652	LYS
1	B	655	ILE
1	B	664	LEU
1	B	667	LYS
1	B	675	LEU
1	B	690	LEU
1	B	699	VAL
1	B	702	ASN
1	B	703	LEU
1	B	705	LEU
1	B	714	ASP
1	B	727	LYS
1	B	732	VAL
1	B	759	GLN
1	C	794	MET
1	C	809	VAL
1	C	812	ASN
1	C	824	MET
1	C	826	ARG
1	C	832	PHE

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Mol	Chain	Res	Type
1	C	837	GLN
1	C	842	LEU
1	C	848	ILE
1	C	851	ASP
1	C	868	ILE
1	C	883	VAL
1	C	891	ILE
1	C	893	LEU
1	C	902	LEU
1	C	919	THR
1	C	924	ASN
1	C	928	LEU
1	C	932	VAL
1	C	940	LEU
1	C	942	ARG
1	C	943	GLU
1	C	947	GLN
1	C	952	ILE
1	C	961	LEU
1	C	962	VAL
1	C	964	LEU
1	C	971	ILE
1	C	978	PRO
1	C	982	ASN
1	C	983	ILE
1	C	998	THR
1	C	1015	MET
1	C	1028	LYS
1	C	1033	ARG
1	C	1039	GLN
1	C	1048	LYS
1	C	1051	ILE
1	C	1060	LEU
1	C	1063	LYS
1	C	1071	LEU
1	C	1086	LEU
1	C	1095	VAL
1	C	1098	ASN
1	C	1099	LEU
1	C	1101	LEU
1	C	1110	ASP
1	C	1123	LYS

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Mol	Chain	Res	Type
1	C	1128	VAL
1	C	1155	GLN
2	D	1195	ASP
2	D	1471	LYS
1	E	1536	MET
1	E	1551	VAL
1	E	1554	ASN
1	E	1566	MET
1	E	1568	ARG
1	E	1574	PHE
1	E	1579	GLN
1	E	1584	LEU
1	E	1590	ILE
1	E	1593	ASP
1	E	1610	ILE
1	E	1625	VAL
1	E	1633	ILE
1	E	1635	LEU
1	E	1644	LEU
1	E	1661	THR
1	E	1666	ASN
1	E	1670	LEU
1	E	1674	VAL
1	E	1682	LEU
1	E	1684	ARG
1	E	1685	GLU
1	E	1689	GLN
1	E	1694	ILE
1	E	1703	LEU
1	E	1704	VAL
1	E	1706	LEU
1	E	1720	PRO
1	E	1724	ASN
1	E	1725	ILE
1	E	1740	THR
1	E	1757	MET
1	E	1770	LYS
1	E	1775	ARG
1	E	1781	GLN
1	E	1790	LYS
1	E	1793	ILE
1	E	1802	LEU

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Mol	Chain	Res	Type
1	E	1805	LYS
1	E	1813	LEU
1	E	1828	LEU
1	E	1837	VAL
1	E	1840	ASN
1	E	1841	LEU
1	E	1843	LEU
1	E	1852	ASP
1	E	1865	LYS
1	E	1870	VAL
1	E	1897	GLN
1	F	1932	MET
1	F	1947	VAL
1	F	1950	ASN
1	F	1962	MET
1	F	1964	ARG
1	F	1970	PHE
1	F	1975	GLN
1	F	1980	LEU
1	F	1986	ILE
1	F	1989	ASP
1	F	2006	ILE
1	F	2021	VAL
1	F	2029	ILE
1	F	2031	LEU
1	F	2040	LEU
1	F	2057	THR
1	F	2062	ASN
1	F	2066	LEU
1	F	2070	VAL
1	F	2078	LEU
1	F	2080	ARG
1	F	2081	GLU
1	F	2085	GLN
1	F	2090	ILE
1	F	2099	LEU
1	F	2100	VAL
1	F	2102	LEU
1	F	2116	PRO
1	F	2120	ASN
1	F	2121	ILE
1	F	2136	THR

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Mol	Chain	Res	Type
1	F	2153	MET
1	F	2166	LYS
1	F	2171	ARG
1	F	2177	GLN
1	F	2186	LYS
1	F	2189	ILE
1	F	2198	LEU
1	F	2201	LYS
1	F	2209	LEU
1	F	2224	LEU
1	F	2233	VAL
1	F	2236	ASN
1	F	2237	LEU
1	F	2239	LEU
1	F	2248	ASP
1	F	2261	LYS
1	F	2266	VAL
1	F	2293	GLN
1	G	2328	MET
1	G	2343	VAL
1	G	2346	ASN
1	G	2358	MET
1	G	2360	ARG
1	G	2366	PHE
1	G	2371	GLN
1	G	2376	LEU
1	G	2382	ILE
1	G	2385	ASP
1	G	2402	ILE
1	G	2417	VAL
1	G	2425	ILE
1	G	2427	LEU
1	G	2436	LEU
1	G	2453	THR
1	G	2458	ASN
1	G	2462	LEU
1	G	2466	VAL
1	G	2474	LEU
1	G	2476	ARG
1	G	2477	GLU
1	G	2481	GLN
1	G	2486	ILE

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Mol	Chain	Res	Type
1	G	2495	LEU
1	G	2496	VAL
1	G	2498	LEU
1	G	2505	ILE
1	G	2512	PRO
1	G	2516	ASN
1	G	2517	ILE
1	G	2532	THR
1	G	2549	MET
1	G	2562	LYS
1	G	2567	ARG
1	G	2573	GLN
1	G	2582	LYS
1	G	2585	ILE
1	G	2594	LEU
1	G	2597	LYS
1	G	2605	LEU
1	G	2620	LEU
1	G	2629	VAL
1	G	2632	ASN
1	G	2633	LEU
1	G	2635	LEU
1	G	2644	ASP
1	G	2657	LYS
1	G	2662	VAL
1	G	2689	GLN
1	H	2724	MET
1	H	2739	VAL
1	H	2742	ASN
1	H	2754	MET
1	H	2756	ARG
1	H	2762	PHE
1	H	2767	GLN
1	H	2772	LEU
1	H	2778	ILE
1	H	2781	ASP
1	H	2798	ILE
1	H	2813	VAL
1	H	2821	ILE
1	H	2823	LEU
1	H	2832	LEU
1	H	2849	THR

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Mol	Chain	Res	Type
1	H	2854	ASN
1	H	2858	LEU
1	H	2862	VAL
1	H	2870	LEU
1	H	2872	ARG
1	H	2873	GLU
1	H	2877	GLN
1	H	2882	ILE
1	H	2891	LEU
1	H	2892	VAL
1	H	2894	LEU
1	H	2908	PRO
1	H	2912	ASN
1	H	2913	ILE
1	H	2928	THR
1	H	2945	MET
1	H	2958	LYS
1	H	2963	ARG
1	H	2969	GLN
1	H	2978	LYS
1	H	2981	ILE
1	H	2990	LEU
1	H	2993	LYS
1	H	3001	LEU
1	H	3016	LEU
1	H	3025	VAL
1	H	3028	ASN
1	H	3029	LEU
1	H	3031	LEU
1	H	3040	ASP
1	H	3053	LYS
1	H	3058	VAL
1	H	3085	GLN
1	I	3120	MET
1	I	3135	VAL
1	I	3138	ASN
1	I	3150	MET
1	I	3152	ARG
1	I	3158	PHE
1	I	3163	GLN
1	I	3168	LEU
1	I	3174	ILE

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Mol	Chain	Res	Type
1	I	3177	ASP
1	I	3194	ILE
1	I	3209	VAL
1	I	3217	ILE
1	I	3219	LEU
1	I	3228	LEU
1	I	3245	THR
1	I	3250	ASN
1	I	3254	LEU
1	I	3258	VAL
1	I	3266	LEU
1	I	3268	ARG
1	I	3269	GLU
1	I	3273	GLN
1	I	3278	ILE
1	I	3287	LEU
1	I	3288	VAL
1	I	3290	LEU
1	I	3304	PRO
1	I	3308	ASN
1	I	3309	ILE
1	I	3324	THR
1	I	3341	MET
1	I	3354	LYS
1	I	3359	ARG
1	I	3365	GLN
1	I	3374	LYS
1	I	3377	ILE
1	I	3386	LEU
1	I	3389	LYS
1	I	3397	LEU
1	I	3412	LEU
1	I	3421	VAL
1	I	3424	ASN
1	I	3425	LEU
1	I	3427	LEU
1	I	3436	ASP
1	I	3449	LYS
1	I	3454	VAL
1	I	3481	GLN
1	J	3516	MET
1	J	3531	VAL

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Mol	Chain	Res	Type
1	J	3534	ASN
1	J	3546	MET
1	J	3548	ARG
1	J	3554	PHE
1	J	3559	GLN
1	J	3564	LEU
1	J	3570	ILE
1	J	3573	ASP
1	J	3590	ILE
1	J	3605	VAL
1	J	3613	ILE
1	J	3615	LEU
1	J	3624	LEU
1	J	3641	THR
1	J	3646	ASN
1	J	3650	LEU
1	J	3654	VAL
1	J	3662	LEU
1	J	3664	ARG
1	J	3665	GLU
1	J	3669	GLN
1	J	3674	ILE
1	J	3683	LEU
1	J	3684	VAL
1	J	3686	LEU
1	J	3693	ILE
1	J	3700	PRO
1	J	3704	ASN
1	J	3705	ILE
1	J	3720	THR
1	J	3737	MET
1	J	3750	LYS
1	J	3755	ARG
1	J	3761	GLN
1	J	3770	LYS
1	J	3773	ILE
1	J	3782	LEU
1	J	3785	LYS
1	J	3793	LEU
1	J	3808	LEU
1	J	3817	VAL
1	J	3820	ASN

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Mol	Chain	Res	Type
1	J	3821	LEU
1	J	3823	LEU
1	J	3832	ASP
1	J	3845	LYS
1	J	3850	VAL
1	J	3877	GLN
1	K	3912	MET
1	K	3927	VAL
1	K	3930	ASN
1	K	3942	MET
1	K	3944	ARG
1	K	3950	PHE
1	K	3955	GLN
1	K	3960	LEU
1	K	3966	ILE
1	K	3969	ASP
1	K	3986	ILE
1	K	4001	VAL
1	K	4009	ILE
1	K	4011	LEU
1	K	4020	LEU
1	K	4037	THR
1	K	4042	ASN
1	K	4046	LEU
1	K	4050	VAL
1	K	4058	LEU
1	K	4060	ARG
1	K	4061	GLU
1	K	4065	GLN
1	K	4070	ILE
1	K	4079	LEU
1	K	4080	VAL
1	K	4082	LEU
1	K	4096	PRO
1	K	4100	ASN
1	K	4101	ILE
1	K	4116	THR
1	K	4133	MET
1	K	4146	LYS
1	K	4151	ARG
1	K	4157	GLN
1	K	4166	LYS

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Mol	Chain	Res	Type
1	K	4169	ILE
1	K	4178	LEU
1	K	4181	LYS
1	K	4189	LEU
1	K	4204	LEU
1	K	4213	VAL
1	K	4216	ASN
1	K	4217	LEU
1	K	4219	LEU
1	K	4228	ASP
1	K	4241	LYS
1	K	4246	VAL
1	K	4273	GLN
1	L	4308	MET
1	L	4323	VAL
1	L	4326	ASN
1	L	4338	MET
1	L	4340	ARG
1	L	4346	PHE
1	L	4351	GLN
1	L	4356	LEU
1	L	4362	ILE
1	L	4365	ASP
1	L	4382	ILE
1	L	4397	VAL
1	L	4405	ILE
1	L	4407	LEU
1	L	4416	LEU
1	L	4433	THR
1	L	4438	ASN
1	L	4442	LEU
1	L	4446	VAL
1	L	4454	LEU
1	L	4456	ARG
1	L	4457	GLU
1	L	4461	GLN
1	L	4466	ILE
1	L	4475	LEU
1	L	4476	VAL
1	L	4478	LEU
1	L	4492	PRO
1	L	4496	ASN

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Mol	Chain	Res	Type
1	L	4497	ILE
1	L	4512	THR
1	L	4529	MET
1	L	4542	LYS
1	L	4547	ARG
1	L	4553	GLN
1	L	4562	LYS
1	L	4565	ILE
1	L	4574	LEU
1	L	4577	LYS
1	L	4585	LEU
1	L	4600	LEU
1	L	4609	VAL
1	L	4612	ASN
1	L	4613	LEU
1	L	4615	LEU
1	L	4624	ASP
1	L	4637	LYS
1	L	4642	VAL
1	L	4669	GLN
1	M	4704	MET
1	M	4719	VAL
1	M	4722	ASN
1	M	4734	MET
1	M	4736	ARG
1	M	4742	PHE
1	M	4747	GLN
1	M	4752	LEU
1	M	4758	ILE
1	M	4761	ASP
1	M	4778	ILE
1	M	4793	VAL
1	M	4801	ILE
1	M	4803	LEU
1	M	4812	LEU
1	M	4829	THR
1	M	4834	ASN
1	M	4838	LEU
1	M	4842	VAL
1	M	4850	LEU
1	M	4852	ARG
1	M	4853	GLU

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Mol	Chain	Res	Type
1	M	4857	GLN
1	M	4862	ILE
1	M	4871	LEU
1	M	4872	VAL
1	M	4874	LEU
1	M	4881	ILE
1	M	4888	PRO
1	M	4892	ASN
1	M	4893	ILE
1	M	4908	THR
1	M	4925	MET
1	M	4938	LYS
1	M	4943	ARG
1	M	4949	GLN
1	M	4958	LYS
1	M	4961	ILE
1	M	4970	LEU
1	M	4973	LYS
1	M	4981	LEU
1	M	4996	LEU
1	M	5005	VAL
1	M	5008	ASN
1	M	5009	LEU
1	M	5011	LEU
1	M	5020	ASP
1	M	5033	LYS
1	M	5038	VAL
1	M	5065	GLN

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (260) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	38	GLN
1	A	43	GLN
1	A	67	ASN
1	A	79	GLN
1	A	103	GLN
1	A	109	ASN
1	A	132	ASN
1	A	152	ASN
1	A	200	ASN
1	A	247	GLN

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Mol	Chain	Res	Type
1	A	251	ASN
1	A	282	GLN
1	A	302	GLN
1	A	306	ASN
1	A	310	GLN
1	A	315	ASN
1	A	328	ASN
1	A	333	GLN
1	A	338	ASN
1	A	361	ASN
1	A	363	GLN
1	B	433	GLN
1	B	434	GLN
1	B	439	GLN
1	B	463	ASN
1	B	475	GLN
1	B	499	GLN
1	B	505	ASN
1	B	528	ASN
1	B	548	ASN
1	B	596	ASN
1	B	643	GLN
1	B	647	ASN
1	B	678	GLN
1	B	698	GLN
1	B	702	ASN
1	B	706	GLN
1	B	711	ASN
1	B	724	ASN
1	B	729	GLN
1	B	734	ASN
1	B	757	ASN
1	B	759	GLN
1	B	783	GLN
1	C	835	GLN
1	C	859	ASN
1	C	871	GLN
1	C	895	GLN
1	C	901	ASN
1	C	924	ASN
1	C	944	ASN
1	C	992	ASN

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Mol	Chain	Res	Type
1	C	1039	GLN
1	C	1043	ASN
1	C	1074	GLN
1	C	1094	GLN
1	C	1098	ASN
1	C	1102	GLN
1	C	1107	ASN
1	C	1120	ASN
1	C	1125	GLN
1	C	1130	ASN
1	C	1153	ASN
1	C	1155	GLN
2	D	1221	GLN
2	D	1249	GLN
2	D	1271	GLN
2	D	1363	GLN
2	D	1431	ASN
2	D	1446	ASN
2	D	1452	GLN
2	D	1467	GLN
2	D	1497	ASN
2	D	1513	GLN
2	D	1533	GLN
1	E	1577	GLN
1	E	1601	ASN
1	E	1613	GLN
1	E	1637	GLN
1	E	1643	ASN
1	E	1666	ASN
1	E	1686	ASN
1	E	1734	ASN
1	E	1781	GLN
1	E	1785	ASN
1	E	1816	GLN
1	E	1836	GLN
1	E	1840	ASN
1	E	1844	GLN
1	E	1849	ASN
1	E	1862	ASN
1	E	1867	GLN
1	E	1872	ASN
1	E	1895	ASN

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Mol	Chain	Res	Type
1	E	1897	GLN
1	F	1967	GLN
1	F	1973	GLN
1	F	1997	ASN
1	F	2009	GLN
1	F	2033	GLN
1	F	2039	ASN
1	F	2062	ASN
1	F	2082	ASN
1	F	2130	ASN
1	F	2181	ASN
1	F	2212	GLN
1	F	2236	ASN
1	F	2240	GLN
1	F	2245	ASN
1	F	2258	ASN
1	F	2263	GLN
1	F	2268	ASN
1	F	2291	ASN
1	F	2293	GLN
1	G	2369	GLN
1	G	2393	ASN
1	G	2405	GLN
1	G	2429	GLN
1	G	2435	ASN
1	G	2458	ASN
1	G	2478	ASN
1	G	2526	ASN
1	G	2573	GLN
1	G	2577	ASN
1	G	2608	GLN
1	G	2628	GLN
1	G	2632	ASN
1	G	2636	GLN
1	G	2641	ASN
1	G	2654	ASN
1	G	2659	GLN
1	G	2664	ASN
1	G	2687	ASN
1	G	2689	GLN
1	H	2759	GLN
1	H	2760	GLN

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Mol	Chain	Res	Type
1	H	2765	GLN
1	H	2789	ASN
1	H	2801	GLN
1	H	2825	GLN
1	H	2831	ASN
1	H	2854	ASN
1	H	2874	ASN
1	H	2922	ASN
1	H	2969	GLN
1	H	2973	ASN
1	H	3004	GLN
1	H	3024	GLN
1	H	3028	ASN
1	H	3032	GLN
1	H	3037	ASN
1	H	3050	ASN
1	H	3055	GLN
1	H	3060	ASN
1	H	3083	ASN
1	H	3085	GLN
1	I	3161	GLN
1	I	3185	ASN
1	I	3197	GLN
1	I	3221	GLN
1	I	3227	ASN
1	I	3250	ASN
1	I	3270	ASN
1	I	3318	ASN
1	I	3358	GLN
1	I	3369	ASN
1	I	3400	GLN
1	I	3424	ASN
1	I	3428	GLN
1	I	3433	ASN
1	I	3446	ASN
1	I	3451	GLN
1	I	3456	ASN
1	I	3479	ASN
1	I	3481	GLN
1	J	3552	GLN
1	J	3557	GLN
1	J	3581	ASN

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Mol	Chain	Res	Type
1	J	3593	GLN
1	J	3617	GLN
1	J	3623	ASN
1	J	3646	ASN
1	J	3666	ASN
1	J	3714	ASN
1	J	3761	GLN
1	J	3765	ASN
1	J	3796	GLN
1	J	3816	GLN
1	J	3820	ASN
1	J	3824	GLN
1	J	3829	ASN
1	J	3842	ASN
1	J	3847	GLN
1	J	3852	ASN
1	J	3875	ASN
1	J	3877	GLN
1	J	3901	GLN
1	K	3953	GLN
1	K	3977	ASN
1	K	3989	GLN
1	K	4013	GLN
1	K	4019	ASN
1	K	4042	ASN
1	K	4062	ASN
1	K	4110	ASN
1	K	4157	GLN
1	K	4161	ASN
1	K	4192	GLN
1	K	4212	GLN
1	K	4216	ASN
1	K	4220	GLN
1	K	4225	ASN
1	K	4238	ASN
1	K	4243	GLN
1	K	4248	ASN
1	K	4271	ASN
1	K	4273	GLN
1	L	4344	GLN
1	L	4349	GLN
1	L	4373	ASN

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Mol	Chain	Res	Type
1	L	4385	GLN
1	L	4409	GLN
1	L	4415	ASN
1	L	4438	ASN
1	L	4458	ASN
1	L	4506	ASN
1	L	4553	GLN
1	L	4557	ASN
1	L	4588	GLN
1	L	4608	GLN
1	L	4612	ASN
1	L	4616	GLN
1	L	4621	ASN
1	L	4634	ASN
1	L	4639	GLN
1	L	4644	ASN
1	L	4667	ASN
1	L	4669	GLN
1	M	4739	GLN
1	M	4740	GLN
1	M	4745	GLN
1	M	4769	ASN
1	M	4781	GLN
1	M	4805	GLN
1	M	4811	ASN
1	M	4834	ASN
1	M	4854	ASN
1	M	4902	ASN
1	M	4949	GLN
1	M	4953	ASN
1	M	4984	GLN
1	M	5004	GLN
1	M	5008	ASN
1	M	5012	GLN
1	M	5017	ASN
1	M	5030	ASN
1	M	5035	GLN
1	M	5040	ASN
1	M	5063	ASN
1	M	5065	GLN

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates [i](#)

There are no 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-1505. These allow visual inspection of the internal detail of the map and identification of artifacts.

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

6.1 Orthogonal projections [i](#)

6.1.1 Primary map



X



Y



Z

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

6.2 Central slices [i](#)

6.2.1 Primary map



X Index: 50



Y Index: 50



Z Index: 50

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

6.3 Largest variance slices [i](#)

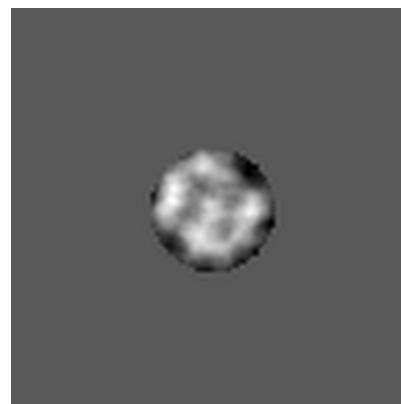
6.3.1 Primary map



X Index: 59



Y Index: 40

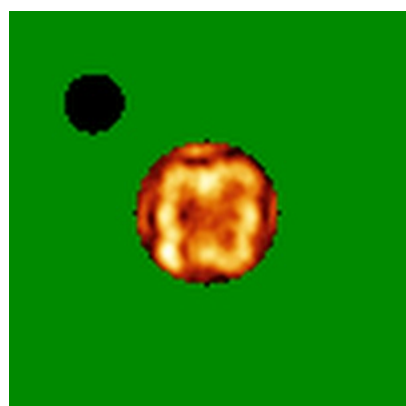


Z Index: 58

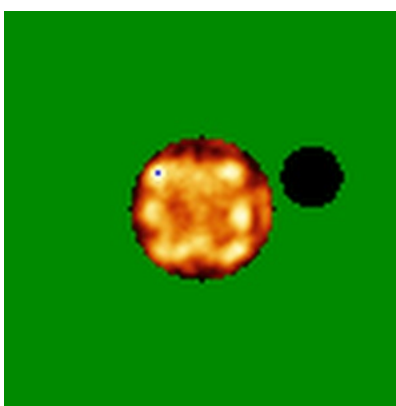
The images above show the largest variance slices of the map in three orthogonal directions.

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

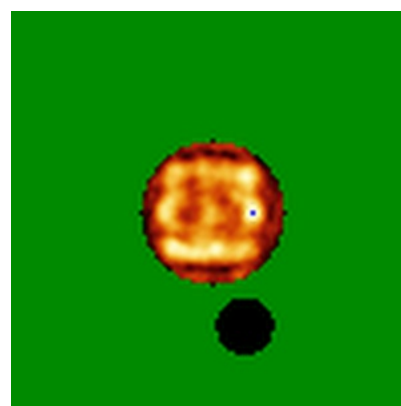
6.4.1 Primary map



X



Y

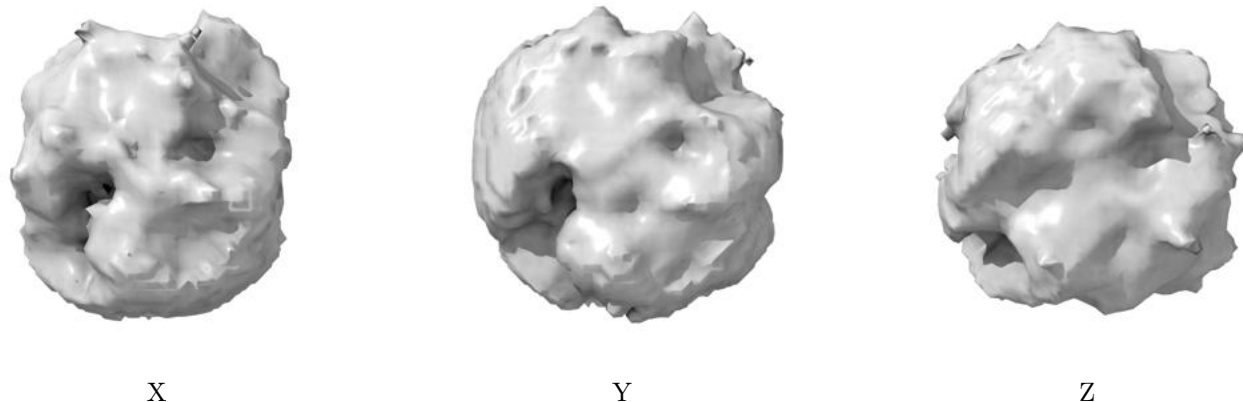


Z

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

6.5 Orthogonal surface views [i](#)

6.5.1 Primary map



The images above show the 3D surface view of the map at the recommended contour level 0.0127. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

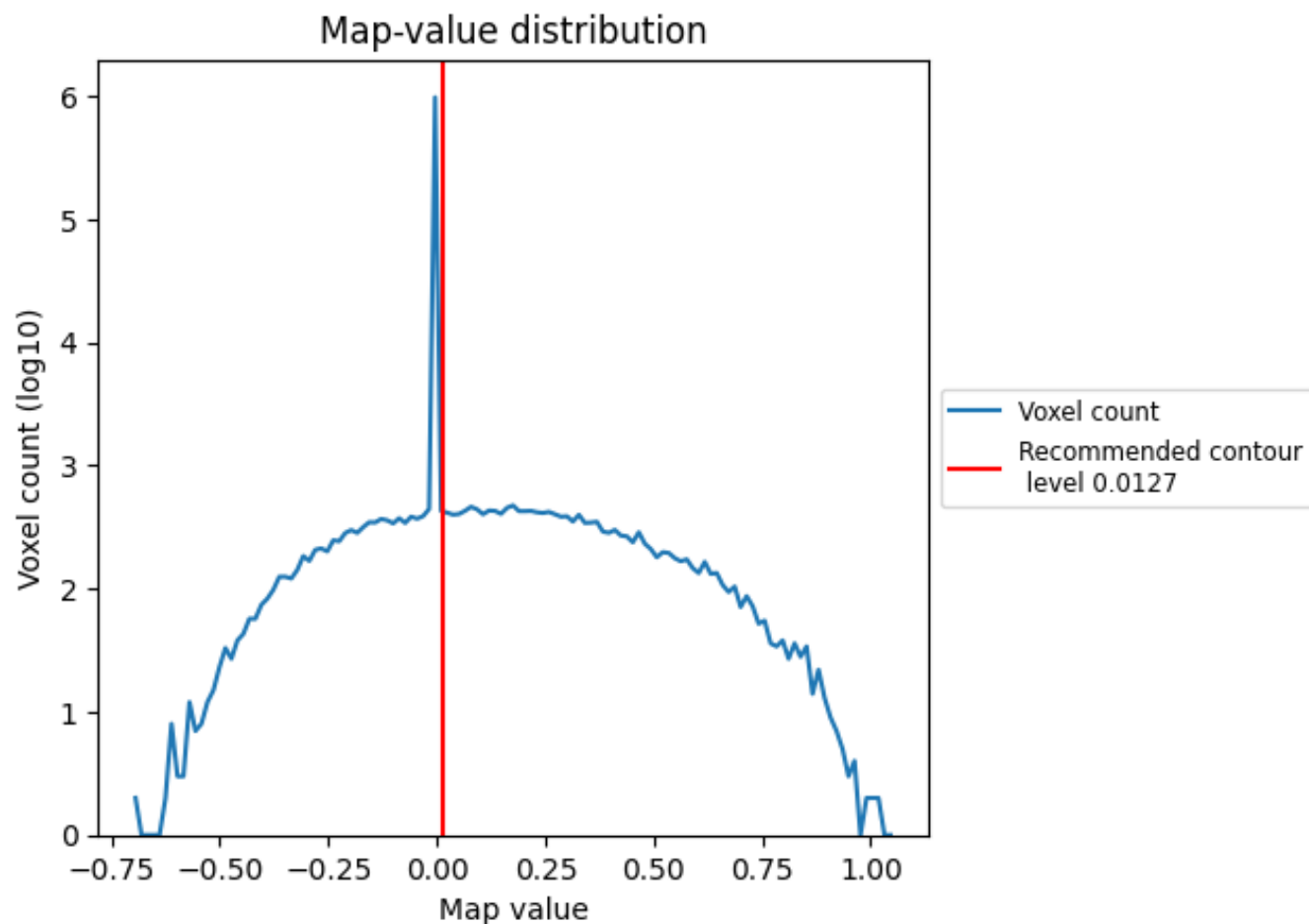
6.6 Mask visualisation [i](#)

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

7 Map analysis [i](#)

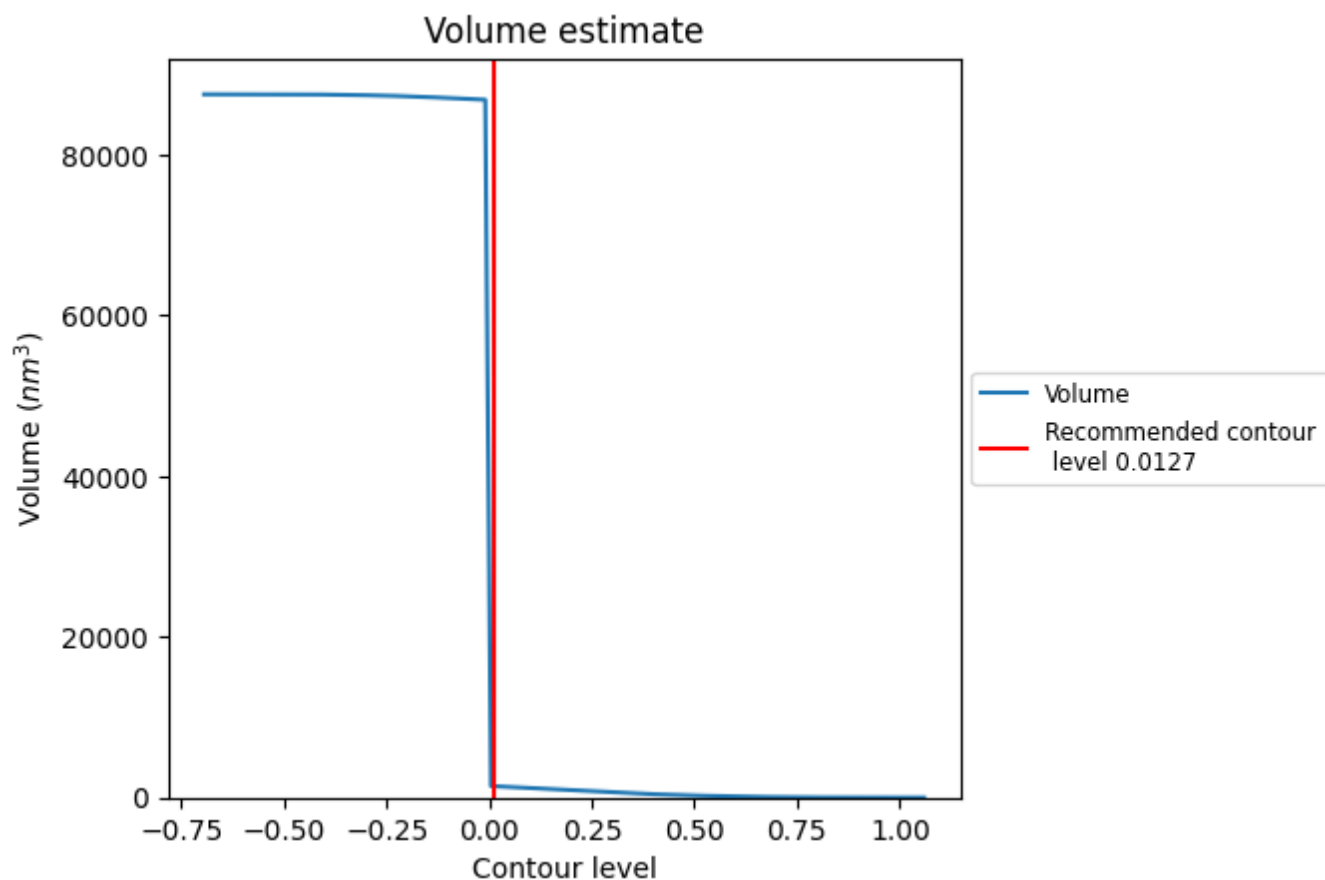
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution [i](#)



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

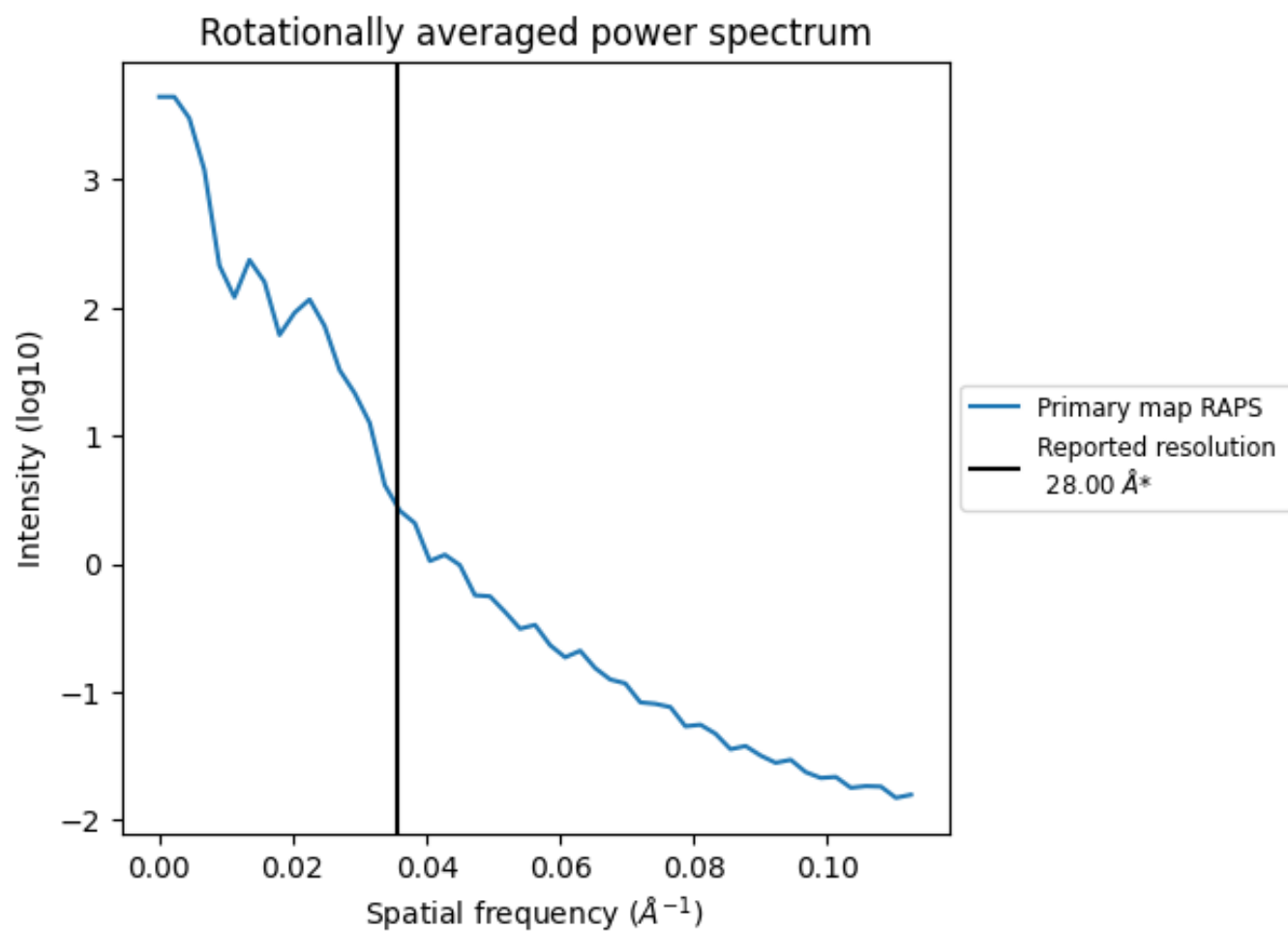
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 1410 nm^3 ; this corresponds to an approximate mass of 1274 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 0.036 Å⁻¹

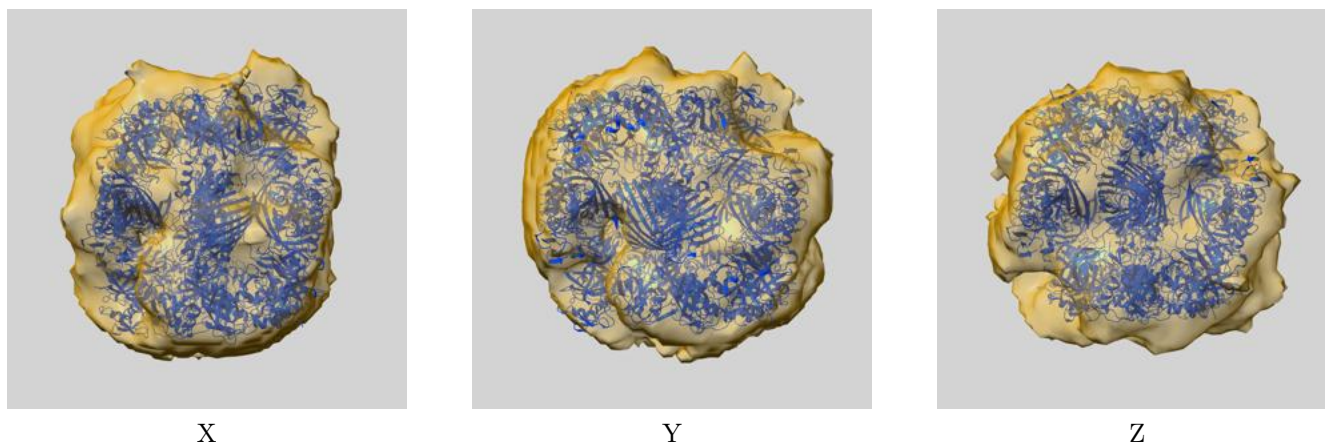
8 Fourier-Shell correlation

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

9 Map-model fit [i](#)

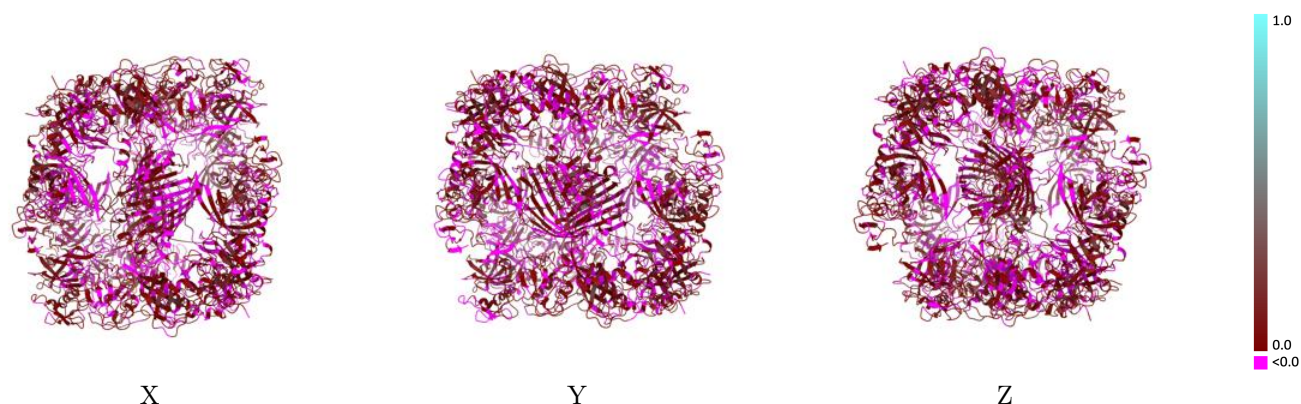
This section contains information regarding the fit between EMDB map EMD-1505 and PDB model 2ZLE. Per-residue inclusion information can be found in section [3](#) on page [5](#).

9.1 Map-model overlay [i](#)



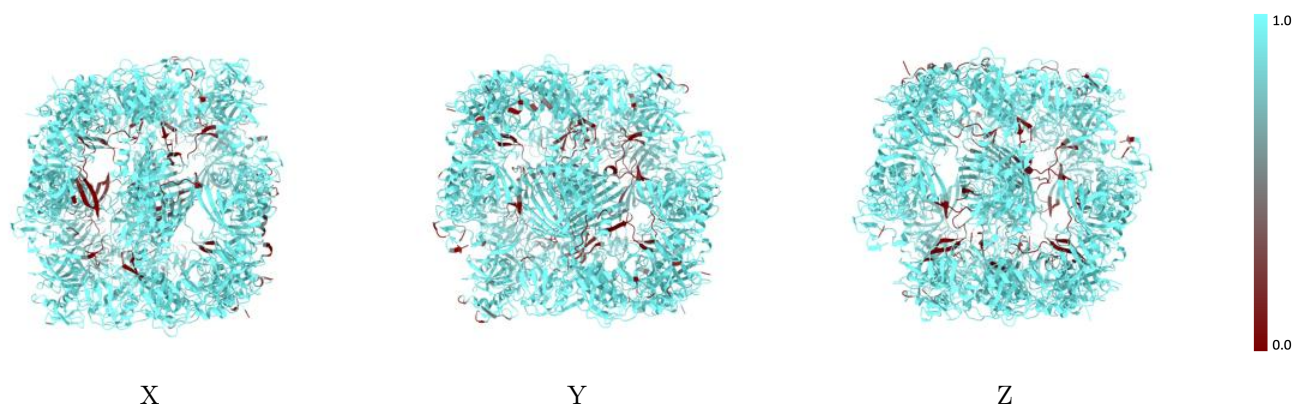
The images above show the 3D surface view of the map at the recommended contour level 0.0127 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

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



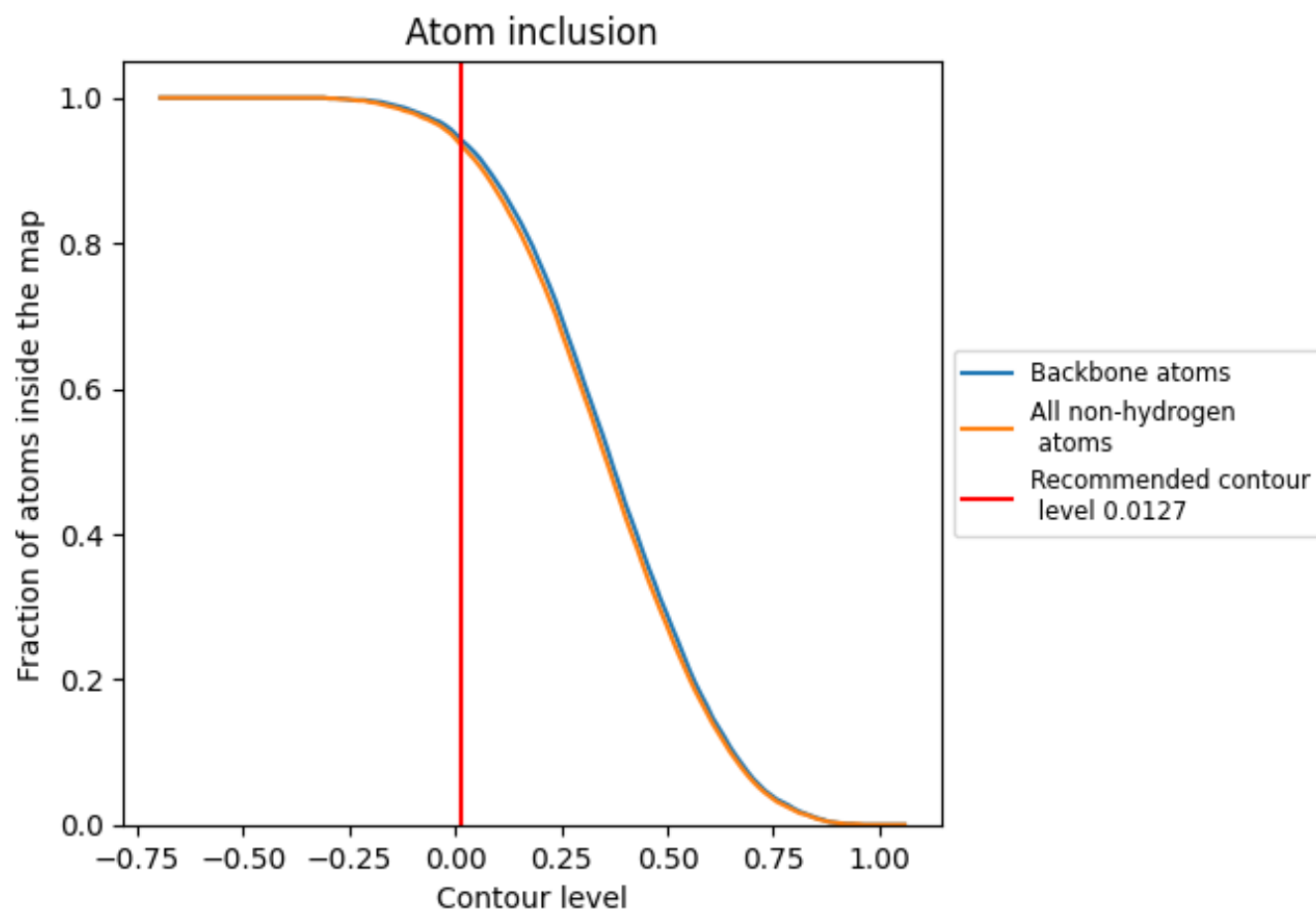
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions 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 (0.0127).

9.4 Atom inclusion [i](#)



At the recommended contour level, 94% of all backbone atoms, 94% 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 (0.0127) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	0.9360	0.0380
A	0.9380	0.0370
B	0.9480	0.0390
C	0.9320	0.0450
D	0.9080	0.0260
E	0.9470	0.0450
F	0.9170	0.0400
G	0.9190	0.0440
H	0.9530	0.0430
I	0.9130	0.0400
J	0.9700	0.0240
K	0.9370	0.0310
L	0.9120	0.0460
M	0.9650	0.0380

