



Full wwPDB X-ray Structure Validation Report ⓘ

Feb 1, 2016 – 12:25 AM GMT

PDB ID : 2A6H
Title : Crystal structure of the T. thermophilus RNA polymerase holoenzyme in complex with antibiotic sterptolydigin
Authors : Temiakov, D.; Zenkin, N.; Vassilyeva, M.N.; Perederina, A.; Tahirov, T.H.; Savkina, M.; Zorov, S.; Nikiforov, V.; Igarashi, N.; Matsugaki, N.; Wakatsuki, S.; Severinov, K.; Vassilyev, D.G.; RIKEN Structural Genomics/Proteomics Initiative (RSGI)
Deposited on : 2005-07-02
Resolution : 2.40 Å(reported)

This is a Full wwPDB X-ray Structure Validation Report for a publicly released PDB entry.
We welcome your comments at validation@mail.wwpdb.org
A user guide is available at
<http://wwpdb.org/validation/2016/XrayValidationReportHelp>
with specific help available everywhere you see the ⓘ symbol.

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

MolProbity : 4.02b-467
Mogul : 1.7 (RC4), CSD as536be (2015)
Xtriage (Phenix) : 1.9-1692
EDS : rb-20026688
Percentile statistics : 20151230.v01 (using entries in the PDB archive December 30th 2015)
Refmac : 5.8.0135
CCP4 : 6.5.0
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : trunk26865

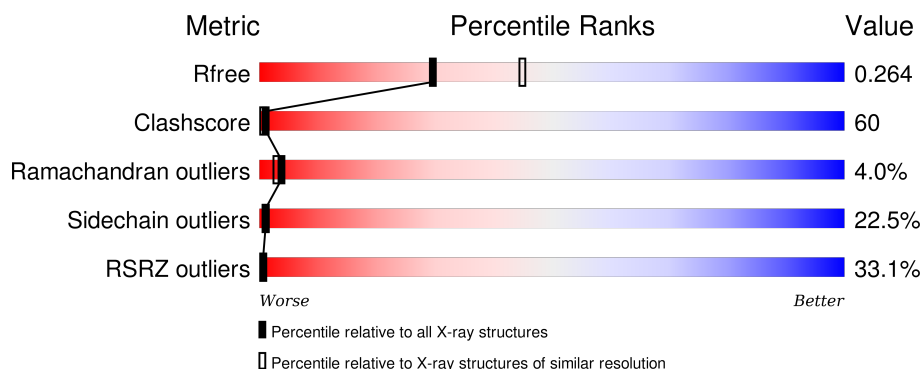
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.40 Å.

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



Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
R_{free}	91344	2919 (2.40-2.40)
Clashscore	102246	3407 (2.40-2.40)
Ramachandran outliers	100387	3351 (2.40-2.40)
Sidechain outliers	100360	3352 (2.40-2.40)
RSRZ outliers	91569	2928 (2.40-2.40)

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

Mol	Chain	Length	Quality of chain
1	A	315	<div> <div>22%</div> <div> <div>16%</div> <div>43%</div> <div>13%</div> <div>27%</div> </div> </div>
1	B	315	<div> <div>24%</div> <div> <div>16%</div> <div>43%</div> <div>13%</div> <div>27%</div> </div> </div>
1	K	315	<div> <div>20%</div> <div> <div>23%</div> <div>41%</div> <div>8%</div> <div>27%</div> </div> </div>
1	L	315	<div> <div>28%</div> <div> <div>20%</div> <div>39%</div> <div>12%</div> <div>27%</div> </div> </div>
2	C	1119	<div> <div>40%</div> <div> <div>24%</div> <div>57%</div> <div>19%</div> </div> </div>

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Mol	Chain	Length	Quality of chain
2	M	1119	<div><div></div><div>36%</div><div>25%</div><div>55%</div><div>19%</div><div></div></div>
3	D	1524	<div><div></div><div>25%</div><div>22%</div><div>52%</div><div>15%</div><div>9%</div><div></div></div>
3	N	1524	<div><div></div><div>25%</div><div>25%</div><div>49%</div><div>15%</div><div>9%</div><div></div></div>
4	E	99	<div><div></div><div>29%</div><div>27%</div><div>53%</div><div>15%</div><div></div><div></div></div>
4	O	99	<div><div></div><div>33%</div><div>24%</div><div>53%</div><div>18%</div><div></div><div></div></div>
5	F	423	<div><div></div><div>35%</div><div>20%</div><div>49%</div><div>11%</div><div>18%</div><div></div></div>
5	P	423	<div><div></div><div>31%</div><div>21%</div><div>49%</div><div>11%</div><div>18%</div><div></div></div>

2 Entry composition

There are 9 unique types of molecules in this entry. The entry contains 60908 atoms, of which 0 are hydrogens and 0 are deuteriums.

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

- Molecule 1 is a protein called DNA-directed RNA polymerase alpha chain.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	229	Total	C	N	O	S	0	0	0
			1806	1153	313	337	3			
1	B	229	Total	C	N	O	S	0	0	0
			1806	1153	313	337	3			
1	K	229	Total	C	N	O	S	0	0	0
			1806	1153	313	337	3			
1	L	229	Total	C	N	O	S	0	0	0
			1806	1153	313	337	3			

- Molecule 2 is a protein called DNA-directed RNA polymerase beta chain.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	C	1119	Total	C	N	O	S	0	0	0
			8829	5581	1577	1647	24			
2	M	1119	Total	C	N	O	S	0	0	0
			8829	5581	1577	1647	24			

- Molecule 3 is a protein called DNA-directed RNA polymerase beta' chain.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
3	D	1381	Total	C	N	O	S	0	0	0
			10728	6776	1912	2007	33			
3	N	1381	Total	C	N	O	S	0	0	0
			10728	6776	1912	2007	33			

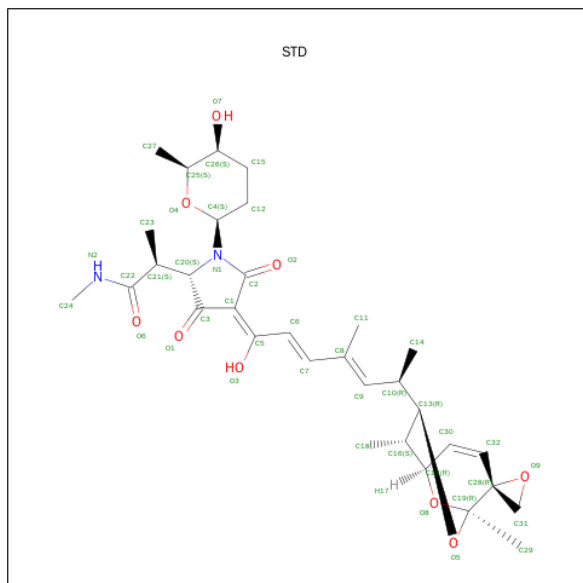
- Molecule 4 is a protein called RNA polymerase omega chain.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
4	E	95	Total	C	N	O	S	0	0	0
			769	488	133	144	4			
4	O	95	Total	C	N	O	S	0	0	0
			769	488	133	144	4			

- Molecule 5 is a protein called RNA polymerase sigma factor rpoD.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
5	F	345	Total	C	N	O	S	0	0
			2771	1744	504	519	4		
5	P	345	Total	C	N	O	S	0	0
			2771	1744	504	519	4		

- Molecule 6 is STREPTOLYDIGIN (three-letter code: STD) (formula: $C_{32}H_{44}N_2O_9$).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
6	D	1	Total	C	N	O	0	0
			43	32	2	9		
6	N	1	Total	C	N	O	0	0
			43	32	2	9		

- Molecule 7 is ZINC ION (three-letter code: ZN) (formula: Zn).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
7	D	2	Total	Zn	0	0
			2	2		
7	N	2	Total	Zn	0	0
			2	2		

- Molecule 8 is MAGNESIUM ION (three-letter code: MG) (formula: Mg).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
8	D	1	Total Mg 1 1	0	0
8	N	1	Total Mg 1 1	0	0

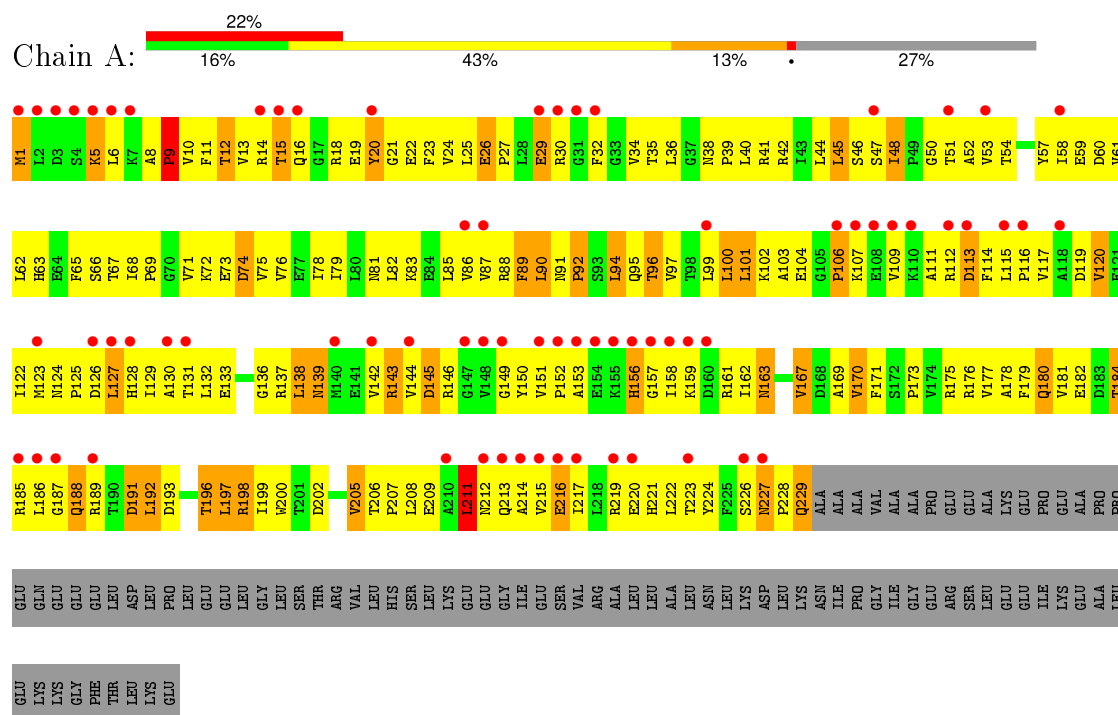
- Molecule 9 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
9	A	232	Total O 232 232	0	0
9	B	304	Total O 304 304	0	0
9	C	1144	Total O 1144 1144	0	0
9	D	1546	Total O 1546 1546	0	0
9	E	130	Total O 130 130	0	0
9	F	491	Total O 491 491	0	0
9	K	229	Total O 229 229	0	0
9	L	274	Total O 274 274	0	0
9	M	1072	Total O 1072 1072	0	0
9	N	1392	Total O 1392 1392	0	0
9	O	137	Total O 137 137	0	0
9	P	447	Total O 447 447	0	0

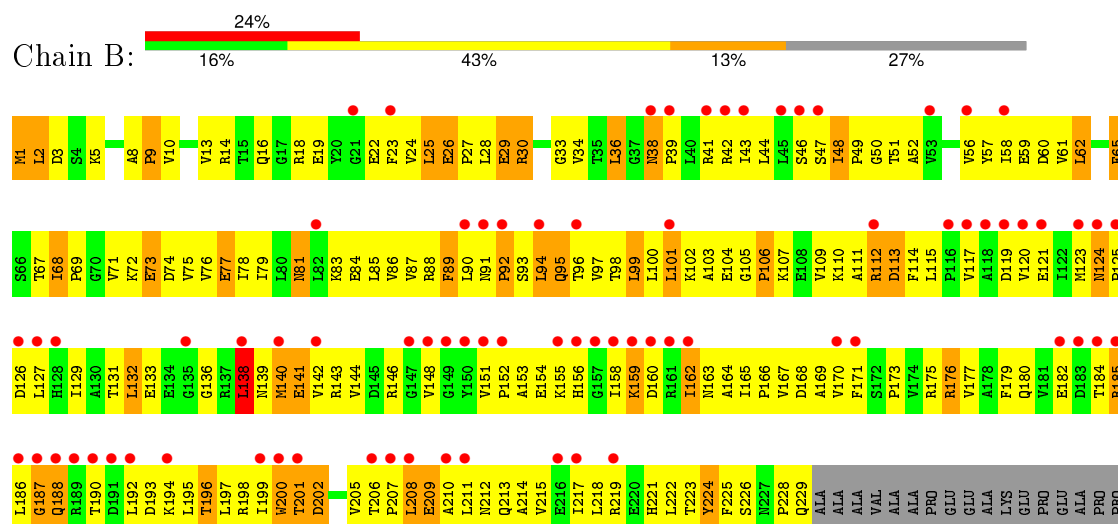
3 Residue-property plots

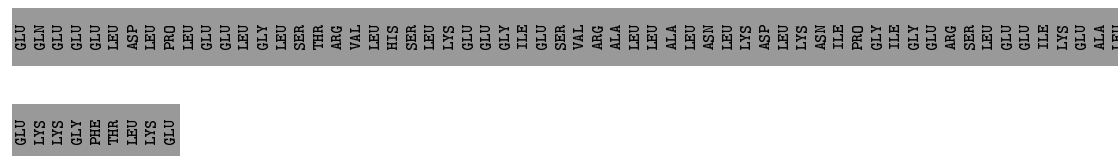
These plots are drawn for all protein, RNA and DNA chains in the entry. The first graphic for a chain summarises the proportions of errors displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and electron density. Residues are color-coded according 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 dot above a residue indicates a poor fit to the electron density ($RSRZ > 2$). Stretches of 2 or more consecutive residues without any outlier are shown as a green connector. Residues present in the sample, but not in the model, are shown in grey.

• Molecule 1: DNA-directed RNA polymerase alpha chain

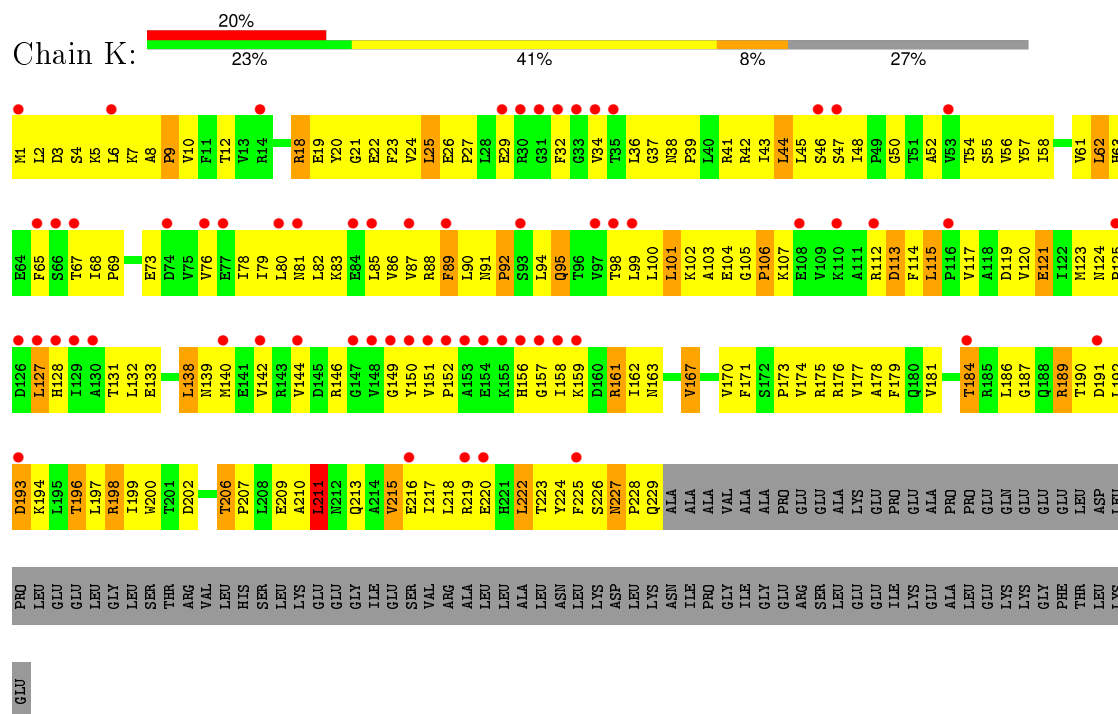


• Molecule 1: DNA-directed RNA polymerase alpha chain

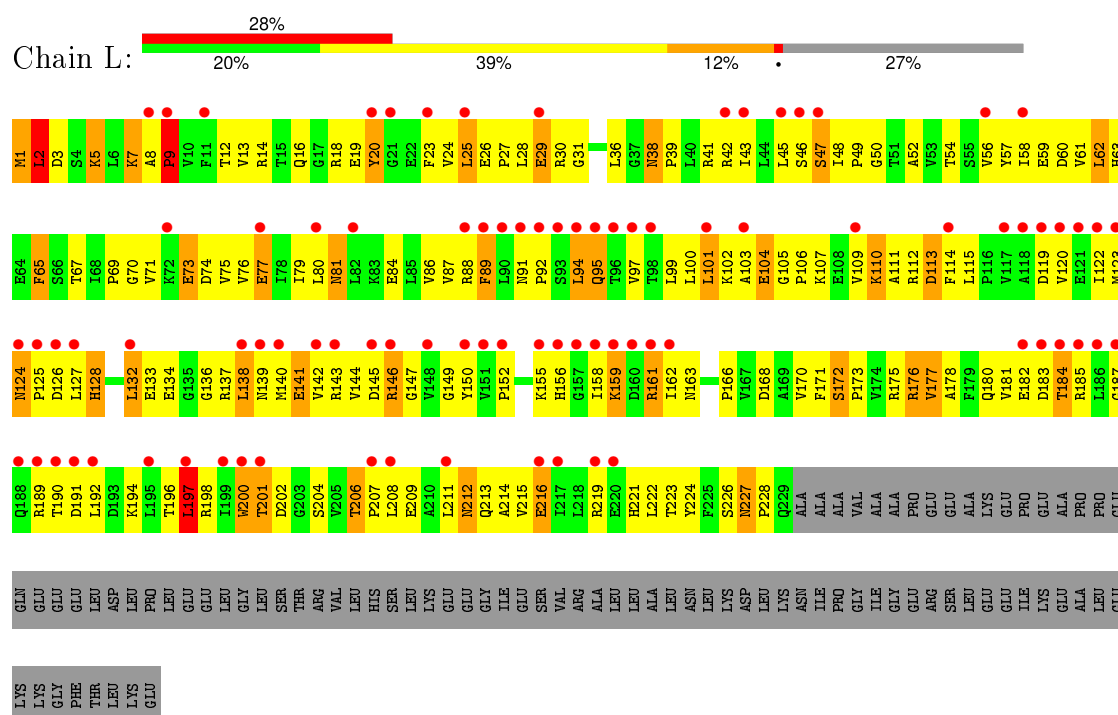




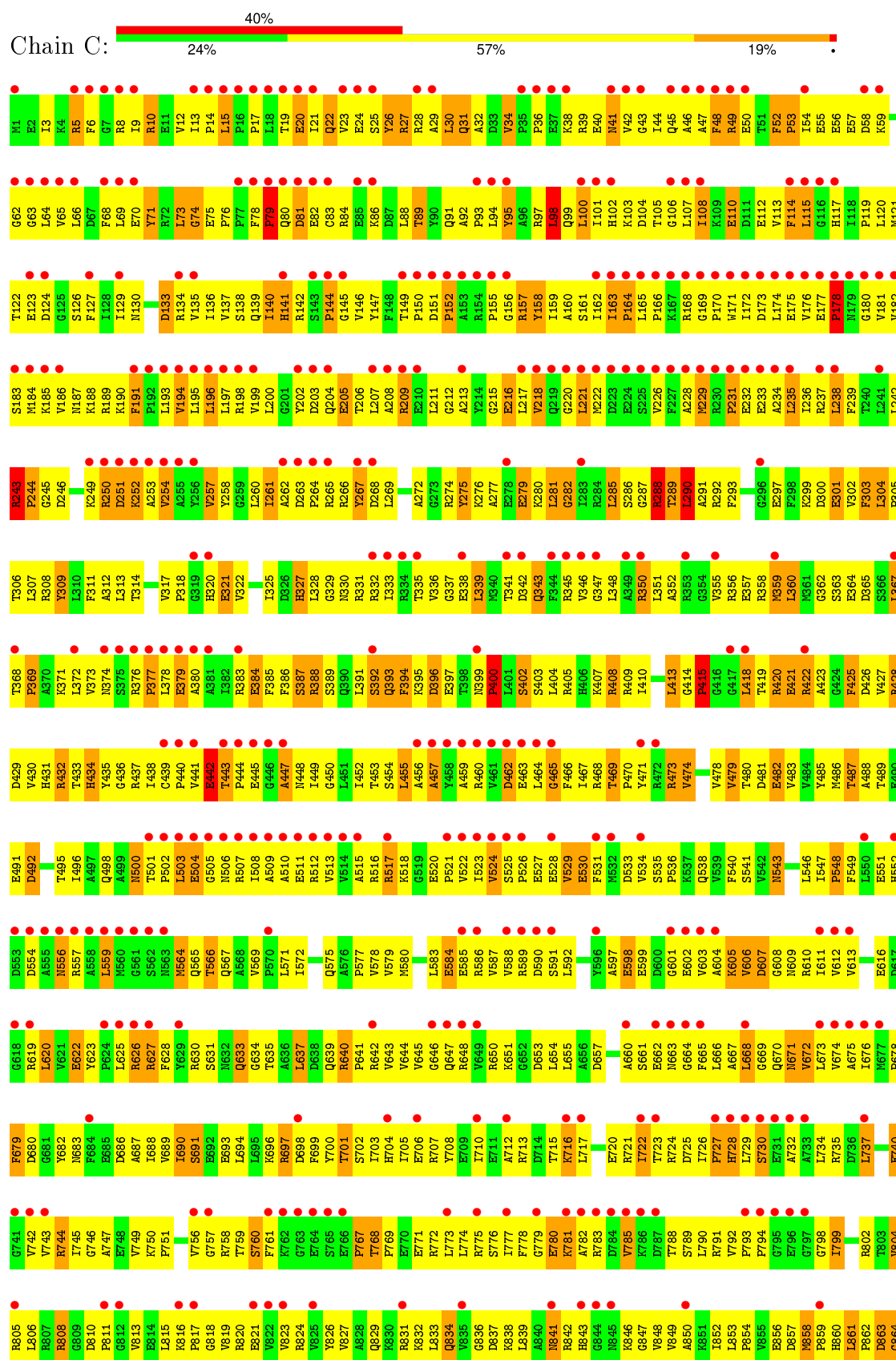
• Molecule 1: DNA-directed RNA polymerase alpha chain

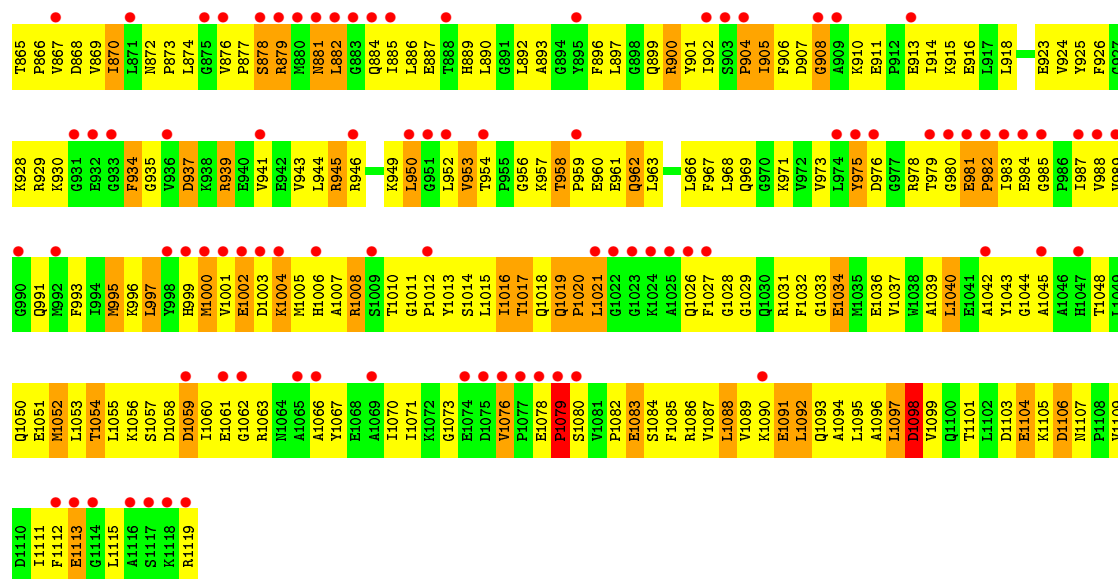


• Molecule 1: DNA-directed RNA polymerase alpha chain



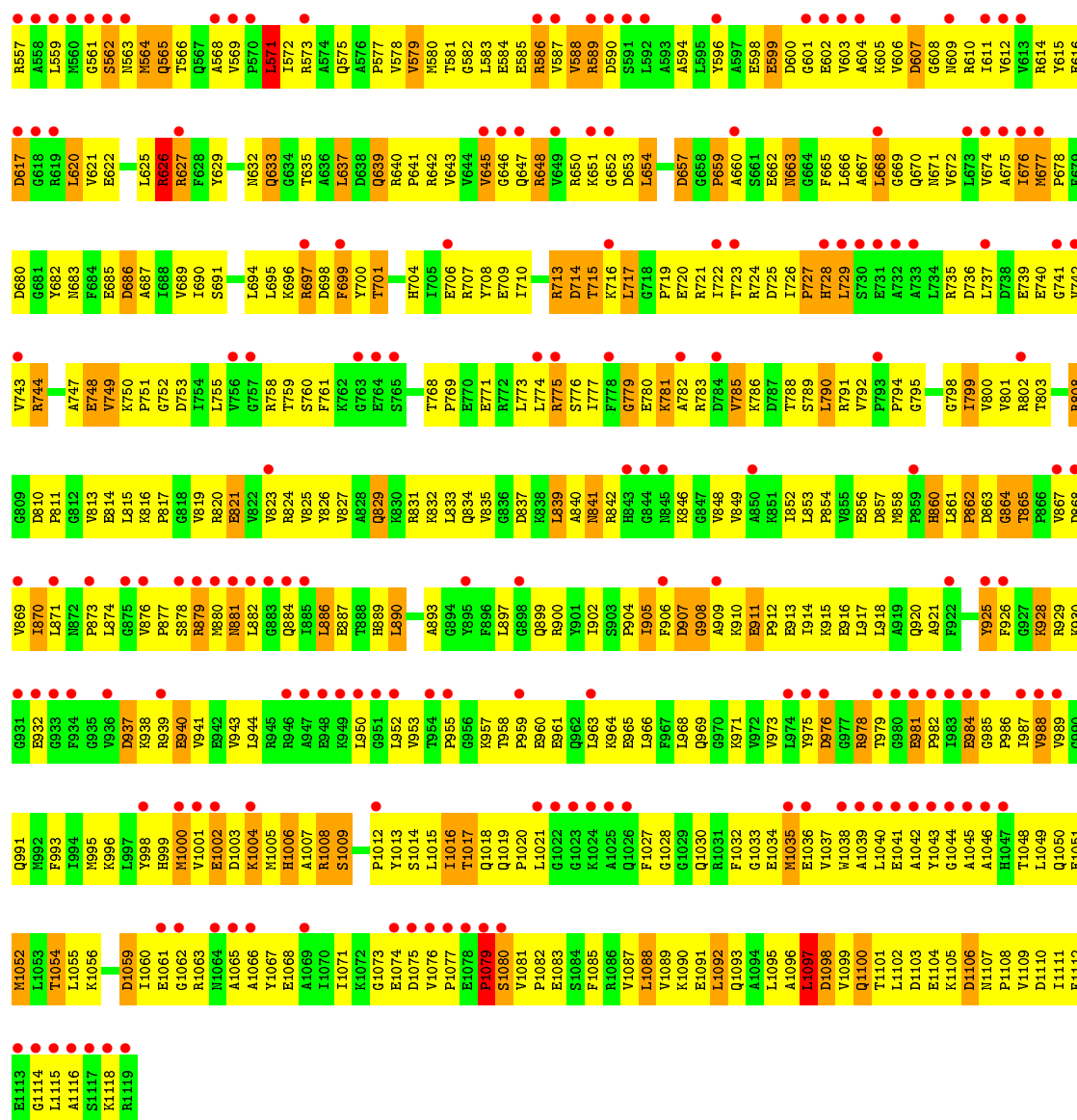
● Molecule 2: DNA-directed RNA polymerase beta chain



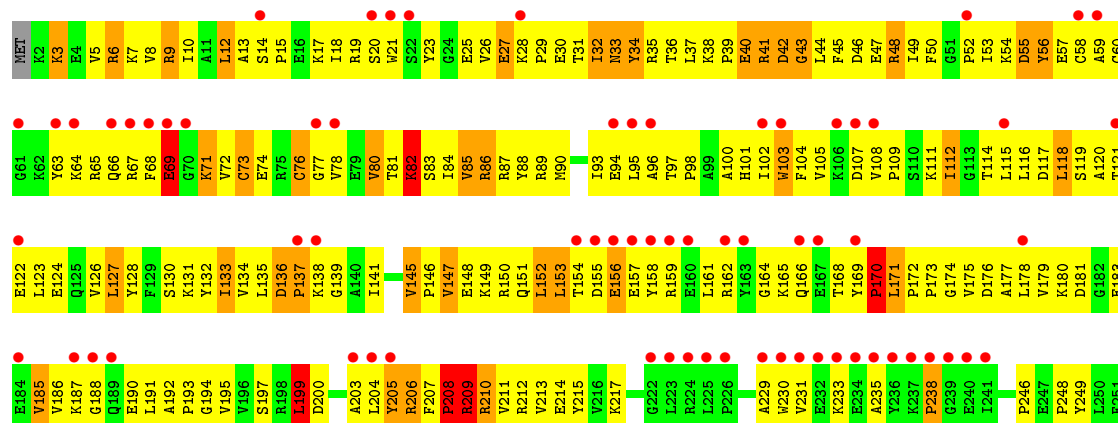


• Molecule 2: DNA-directed RNA polymerase beta chain

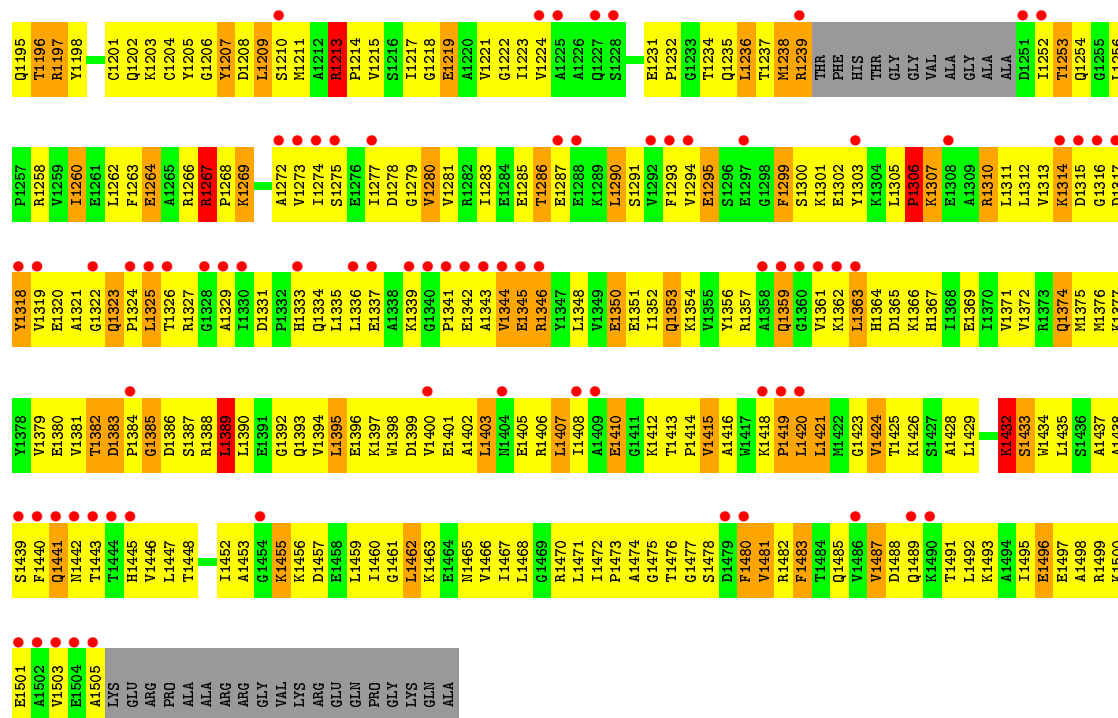




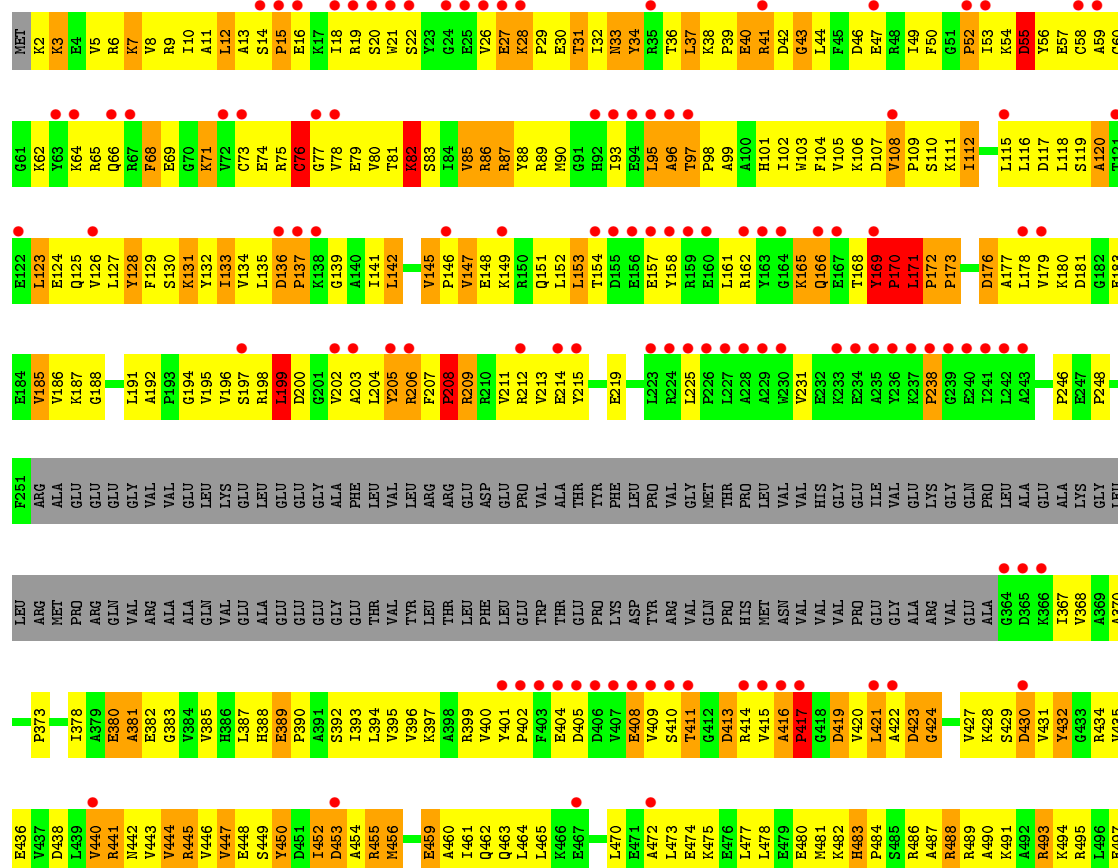
● Molecule 3: DNA-directed RNA polymerase beta' chain



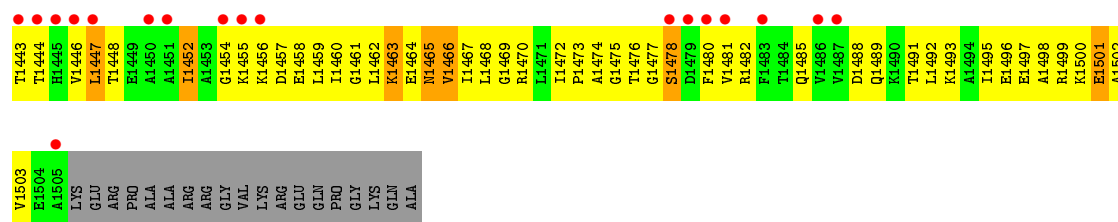
L1132	L1065	G1064	T1000	E874	A812	L751	D882	K621	Q560	V499	D438	E374	ARG
R1133	L1066	L1067	E1001	T875	E813	L751	I883	R622	G561	R500	L439	E374	ALA
L1134	V1067	V1068	K1002	S876	A814	S752	K884	R623	A562	R501	V440	L378	GLU
K1136	L1069	L1070	V1003	R877	A815	S753	D885	D624	P563	F502	R441	A379	GLU
R1137	E1069	E1070	T1004	G878	B816	T754	E886	S626	E564	L503	N442	E380	GLY
A1138	L1071	L1072	Q1005	R879	R817	A755	V687	G627	I565	D504	V443	A381	VAL
L1139	A1070	F1007	Q1006	I880	R818	T756	V688	R628	I566	S505	R444	E382	VAL
L1140	F1008	F1008	L1007	L881	R819	Q757	D889	R629	I567	G506	R445	E382	VAL
E1141	S1073	S1073	K1009	F882	E820	E758	A690	S629	R568	N507	V446	E382	GLU
A1142	S1074	S1074	R1010	R883	V821	A759	L691	V630	N569	P509	V447	E382	LYS
G1143	H1075	H1075	F1011	R884	A822	R760	E892	I631	E570	E510	V448	E382	LEU
L1144	A1076	A1076	E1012	I885	L833	I761	E893	V632	K571	E511	S449	E382	LEU
Y1145	R1078	R1078	E1013	R886	R824	Q762	E894	V633	R572	H512	Y450	E382	GLU
G1146	T1084	T1084	N1014	A887	A825	M763	I895	G634	R573	I513	D451	E382	GLU
R1147	L1085	L1085	Y1015	E888	R826	L764	H696	P635	L574	—	I462	E382	GLY
V1148	A1086	A1086	V955	E889	P826	Q636	G697	R636	Q575	A516	D452	E382	GLY
L1149	L1087	L1087	I956	R890	K828	A766	K698	L637	E576	V517	R454	E382	ALA
A1150	R1087	R1087	P957	E891	V829	H767	V699	L639	A577	V518	R455	E382	PHE
E1151	—	—	P1019	D892	A830	M768	—	V640	V578	P519	M456	E382	LEU
E1152	—	—	M1023	E893	G831	L769	L702	R641	A580	V519	—	E382	VAL
—	—	—	—	K894	R832	L770	M703	Q641	E580	L520	E459	E382	LEU
V1155	—	—	—	K894	E833	L770	R704	G642	L581	P522	A460	E382	ARG
L1156	Y1093	Y1093	S1026	V895	E833	S771	A705	G643	L582	R522	I461	E382	ARG
G1157	L1094	L1094	A1028	A896	T834	S772	A705	G643	L582	R522	I461	E382	ARG
V1158	T1095	T1095	R1029	E897	S835	A773	T706	—	D583	L524	Q462	E382	LEU
R1159	R1096	R1096	G1030	E898	V836	A774	T707	—	D583	L524	Q462	E382	LEU
L1160	K1097	K1097	E1031	R900	G837	G775	L708	—	D583	L524	Q462	E382	LEU
E1161	L1098	L1098	P1032	Q901	R838	P776	R709	—	D583	L524	Q462	E382	LEU
V1162	V1099	V1099	R969	L902	E839	P777	R710	—	D583	L524	Q462	E382	LEU
G1163	L1100	L1100	Q1034	V904	E844	—	—	—	D583	L524	Q462	E382	LEU
R1164	V1101	V1101	I1035	P905	I845	—	—	—	D583	L524	Q462	E382	LEU
L1165	T1102	T1102	R1036	Q906	I846	—	—	—	D583	L524	Q462	E382	LEU
S1166	E1103	E1103	Q1037	E907	P846	—	—	—	D583	L524	Q462	E382	LEU
M1168	L1105	L1105	C1039	K908	D847	—	—	—	D583	L524	Q462	E382	LEU
D1169	V1106	V1106	G1040	E975	E848	—	—	—	D583	L524	Q462	E382	LEU
V1170	V1107	V1107	L1041	Q976	A849	—	—	—	D583	L524	Q462	E382	LEU
—	—	—	—	A977	L851	—	—	—	D583	L524	Q462	E382	LEU
—	—	—	—	Y978	L851	—	—	—	D583	L524	Q462	E382	LEU
—	—	—	—	E979	A852	—	—	—	D583	L524	Q462	E382	LEU
—	—	—	—	N980	E853	—	—	—	D583	L524	Q462	E382	LEU
—	—	—	—	G981	A854	—	—	—	D583	L524	Q462	E382	LEU
—	—	—	—	F982	E855	—	—	—	D583	L524	Q462	E382	LEU
—	—	—	—	V983	E856	—	—	—	D583	L524	Q462	E382	LEU
—	—	—	—	Q917	E857	—	—	—	D583	L524	Q462	E382	LEU
—	—	—	—	A918	E858	—	—	—	D583	L524	Q462	E382	LEU
—	—	—	—	F919	E859	—	—	—	D583	L524	Q462	E382	LEU
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—	—	—	—	R921	E861	—	—	—	D583	L524	Q462	E382	LEU
—	—	—	—	L922	E862	—	—	—	D583	L524	Q462	E382	LEU
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—	—	—	—	M924	E864	—	—	—	D583	L524	Q462	E382	LEU
—	—	—	—	E925	E865	—	—	—	D583	L524	Q462	E382	LEU
—	—	—	—	K926	E866	—	—	—	D583	L524	Q462	E382	LEU
—	—	—	—	T927	E867	—	—	—	D583	L524	Q462	E382	LEU
—	—	—	—	Q994	E868	—	—	—	D583	L524	Q462	E382	LEU
—	—	—	—	R928	E869	—	—	—	D583	L524	Q462	E382	LEU
—	—	—	—	L930	E870	—	—	—	D583	L524	Q462	E382	LEU
—	—	—	—	I931	E871	—	—	—	D583	L524	Q462	E382	LEU
—	—	—	—	—	E872	—	—	—	D583	L524	Q462	E382	LEU
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—	—	—	—	—	E882	—	—	—	D583	L524	Q462	E382	LEU
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—	—	—	—	—	E884	—	—	—	D583	L524	Q462	E382	LEU
—	—	—	—	—	E885	—	—	—	D583	L524	Q462	E382	LEU
—	—	—	—	—	E886	—	—	—	D583	L524	Q462	E382	LEU
—	—	—	—	—	E887	—	—	—	D583	L524	Q462	E382	LEU
—	—	—	—	—	E888	—	—	—	D583	L524	Q462	E382	LEU
—	—	—	—	—	E889	—	—	—	D583	L524	Q462	E382	LEU
—	—	—	—	—	E890	—	—	—	D583	L524	Q462	E382	LEU
—	—	—	—	—	E891	—	—	—	D583	L524	Q462	E382	LEU
—	—	—	—	—	E892	—	—	—	D583	L524	Q462	E382	LEU
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—	—	—	—	—	E895	—	—	—	D583	L524	Q462	E382	LEU
—	—	—	—	—	E896	—	—	—	D583	L524	Q462	E382	LEU
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—	—	—	—	—	E903	—	—	—	D583	L524	Q462	E382	LEU
—	—	—	—	—	E904	—	—	—	D583	L524	Q462	E382	LEU
—	—	—	—	—	E905	—	—	—	D583	L524	Q462	E382	LEU
—	—	—	—	—	E906	—	—	—	D583	L524	Q462	E382	LEU
—	—	—	—	—	E907	—	—	—	D583	L524	Q462	E382	LEU
—	—	—	—	—	E908	—	—	—	D583	L524	Q462	E382	LEU
—	—	—	—	—	E909	—	—	—	D583	L524	Q462	E382	LEU
—	—	—	—	—	E910	—	—	—	D583	L524	Q462	E382	LEU
—	—	—	—	—	E911	—	—	—	D583	L524	Q462	E382	LEU
—	—	—	—	—	E912	—	—	—	D583	L524	Q462	E382	LEU
—	—	—	—	—	E913	—	—	—	D583	L524	Q462	E382	LEU
—	—	—	—	—	E914	—	—	—	D583	L524	Q462	E382	LEU
—	—	—	—	—	E915	—	—	—	D583	L524	Q462	E382	LEU
—	—	—	—	—	E916	—	—	—	D583	L524	Q462	E382	LEU
—	—	—	—	—	E917	—	—	—	D583	L524	Q462	E382	LEU
—	—	—	—	—	E918	—	—	—	D583	L524	Q462	E382	LEU
—	—	—	—	—	E919	—	—	—	D583	L524	Q462	E382	LEU
—	—	—	—	—	E920	—	—	—	D583	L524	Q462	E382	LEU
—	—	—	—	—	E921	—	—	—	D583	L524	Q462	E382	LEU
—	—	—	—	—	E922	—	—	—	D583	L524	Q462	E382	LEU
—	—	—	—	—	E923	—	—	—	D583	L524	Q462	E382	LEU
—	—	—	—	—	E924	—	—	—	D583	L524	Q462	E382	LEU
—	—	—	—	—	E925	—	—	—	D583	L524	Q462	E382	LEU
—	—	—	—	—	E926	—	—	—	D583	L524	Q462	E382	LEU
—	—	—	—	—	E927	—	—	—	D583	L			



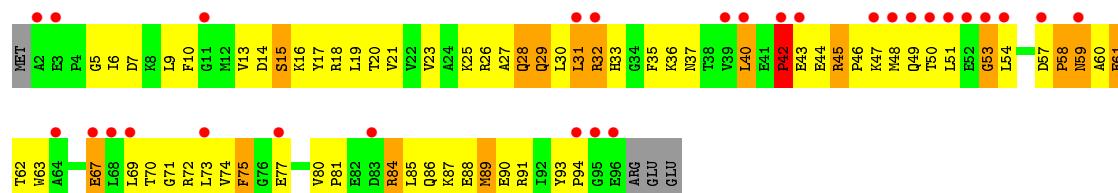
• Molecule 3: DNA-directed RNA polymerase beta' chain



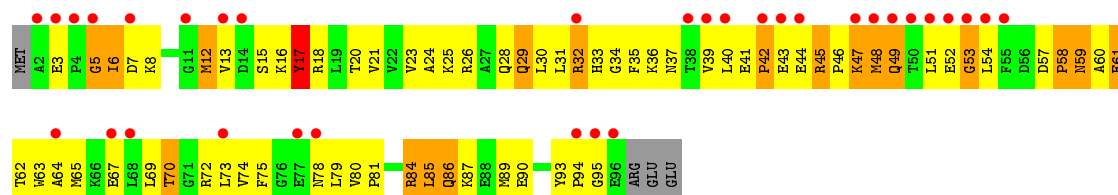




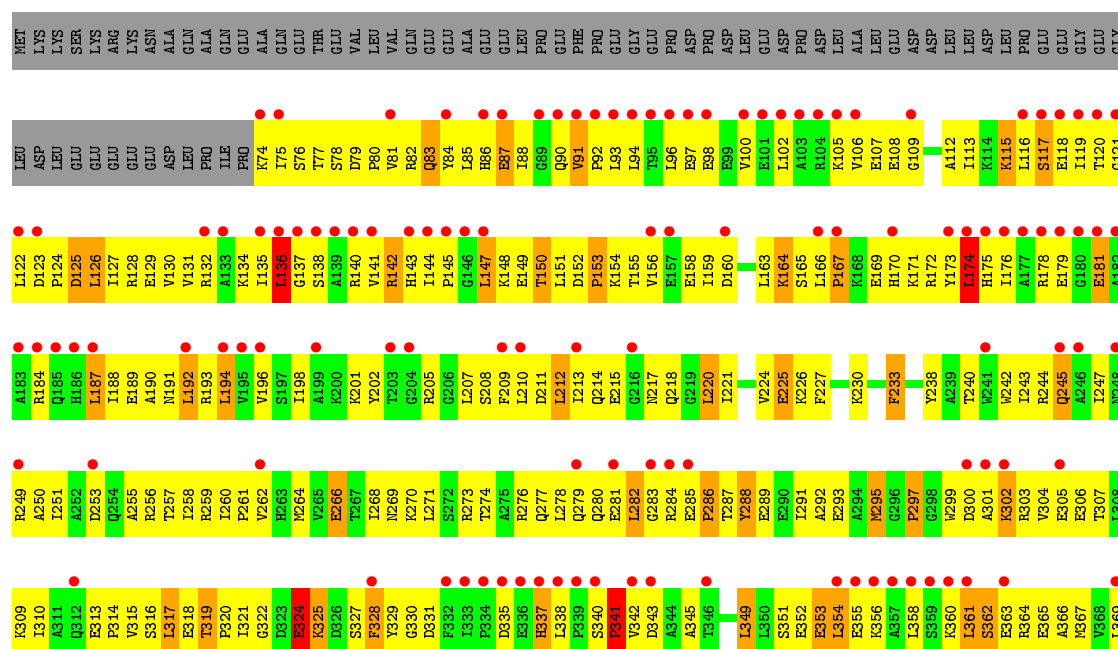
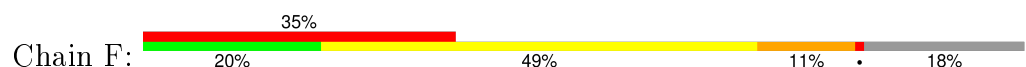
• Molecule 4: RNA polymerase omega chain

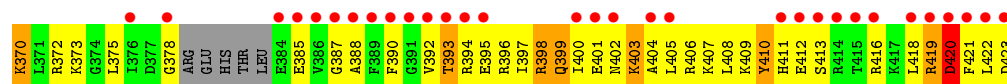


• Molecule 4: RNA polymerase omega chain

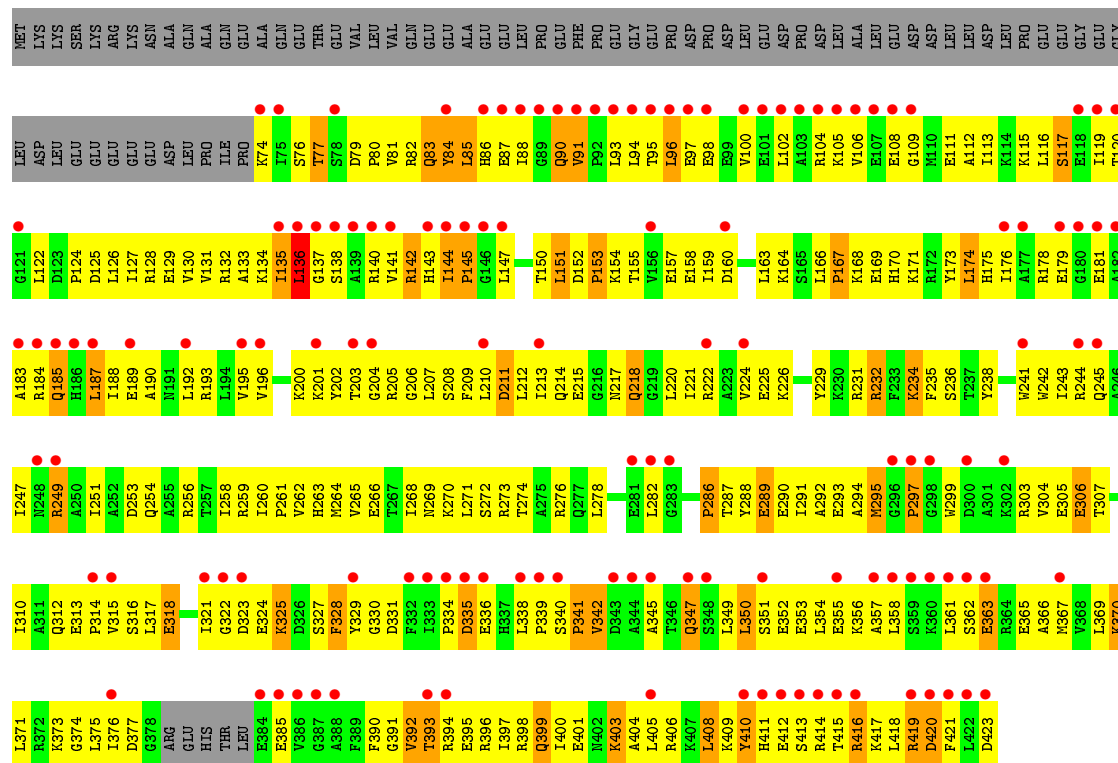
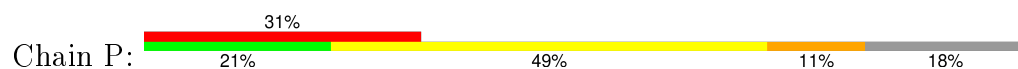


• Molecule 5: RNA polymerase sigma factor rpoD





● Molecule 5: RNA polymerase sigma factor rpoD



4 Data and refinement statistics

Property	Value	Source
Space group	P 32	Depositor
Cell constants a, b, c, α , β , γ	239.50Å 239.50Å 253.10Å 90.00° 90.00° 120.00°	Depositor
Resolution (Å)	25.00 – 2.40 34.69 – 2.40	Depositor EDS
% Data completeness (in resolution range)	(Not available) (25.00-2.40) 91.0 (34.69-2.40)	Depositor EDS
R_{merge}	0.08	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.48 (at 2.39Å)	Xtriage
Refinement program	CNS 1.1	Depositor
R, R_{free}	0.230 , 0.268 0.230 , 0.264	Depositor DCC
R_{free} test set	33251 reflections (6.12%)	DCC
Wilson B-factor (Å ²)	47.0	Xtriage
Anisotropy	0.279	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	(Not available) , (Not available)	EDS
Estimated twinning fraction	0.499 for -h,-k,l 0.079 for h,-h-k,-l 0.079 for -k,-h,-l	Xtriage
L-test for twinning ²	$\langle L \rangle = 0.40$, $\langle L^2 \rangle = 0.23$	Xtriage
Outliers	0 of 577129 reflections	Xtriage
F_o, F_c correlation	0.72	EDS
Total number of atoms	60908	wwPDB-VP
Average B, all atoms (Å ²)	70.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 2.03% of the height of the origin peak. No significant pseudotranslation is detected.*

¹Intensities estimated from amplitudes.

²Theoretical values of $\langle |L| \rangle$, $\langle L^2 \rangle$ for acentric reflections are 0.5, 0.375 respectively for untwinned datasets, and 0.333, 0.2 for perfectly twinned datasets.

5 Model quality ⓘ

5.1 Standard geometry ⓘ

Bond lengths and bond angles in the following residue types are not validated in this section: STD, ZN, MG

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	0.80	1/1838 (0.1%)	0.87	3/2498 (0.1%)
1	B	0.75	0/1838	0.84	6/2498 (0.2%)
1	K	0.75	0/1838	0.83	1/2498 (0.0%)
1	L	0.73	1/1838 (0.1%)	0.77	3/2498 (0.1%)
2	C	0.83	1/8997 (0.0%)	0.89	7/12164 (0.1%)
2	M	0.82	0/8997	0.90	10/12164 (0.1%)
3	D	0.82	0/10903	0.93	18/14736 (0.1%)
3	N	0.81	0/10903	0.93	19/14736 (0.1%)
4	E	0.82	0/783	0.96	0/1054
4	O	0.84	1/783 (0.1%)	0.95	1/1054 (0.1%)
5	F	0.72	0/2812	0.83	4/3781 (0.1%)
5	P	0.73	0/2812	0.82	3/3781 (0.1%)
All	All	0.80	4/54342 (0.0%)	0.90	75/73462 (0.1%)

All (4) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	O	17	TYR	CD1-CE1	6.19	1.48	1.39
1	A	48	ILE	C-N	5.79	1.45	1.34
1	L	172	SER	N-CA	-5.30	1.35	1.46
2	C	191	PHE	C-N	5.26	1.44	1.34

All (75) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	N	1389	LEU	CA-CB-CG	8.52	134.89	115.30
3	D	76	CYS	CA-CB-SG	8.24	128.84	114.00
3	D	199	LEU	CA-CB-CG	-8.01	96.89	115.30
2	M	165	LEU	C-N-CD	-7.94	103.13	120.60
3	N	199	LEU	CA-CB-CG	-7.89	97.16	115.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	D	813	LEU	CA-CB-CG	7.73	133.08	115.30
3	D	637	LEU	CA-CB-CG	7.49	132.53	115.30
5	P	136	LEU	CA-CB-CG	7.46	132.45	115.30
1	A	192	LEU	CA-CB-CG	7.40	132.33	115.30
1	B	138	LEU	CA-CB-CG	7.37	132.24	115.30
3	D	1389	LEU	CA-CB-CG	7.19	131.84	115.30
1	B	25	LEU	CA-CB-CG	6.78	130.89	115.30
3	D	73	CYS	CA-CB-SG	6.39	125.51	114.00
2	M	571	LEU	CA-CB-CG	6.28	129.75	115.30
3	N	705	ALA	C-N-CD	6.13	141.27	128.40
1	K	211	LEU	CA-CB-CG	6.11	129.36	115.30
5	F	354	LEU	CA-CB-CG	6.04	129.19	115.30
5	P	354	LEU	CA-CB-CG	6.04	129.19	115.30
5	P	85	LEU	CA-CB-CG	5.93	128.95	115.30
1	B	2	LEU	CA-CB-CG	5.91	128.89	115.30
3	D	238	PRO	N-CA-CB	5.88	110.35	103.30
3	D	1395	LEU	CA-CB-CG	5.86	128.77	115.30
3	N	238	PRO	N-CA-CB	5.84	110.31	103.30
3	D	208	PRO	CA-N-CD	-5.78	103.41	111.50
2	M	207	LEU	CA-CB-CG	5.77	128.57	115.30
3	N	171	LEU	CA-CB-CG	5.75	128.54	115.30
3	N	1209	LEU	N-CA-C	-5.75	95.48	111.00
5	F	136	LEU	CA-CB-CG	5.68	128.37	115.30
3	N	1065	LEU	CA-CB-CG	5.67	128.35	115.30
3	D	209	ARG	N-CA-C	5.67	126.30	111.00
2	M	243	ARG	C-N-CD	-5.66	108.14	120.60
3	N	76	CYS	CA-CB-SG	5.66	124.19	114.00
3	D	581	LEU	CA-CB-CG	5.65	128.30	115.30
3	N	209	ARG	N-CA-C	5.64	126.24	111.00
3	D	1209	LEU	N-CA-C	-5.62	95.81	111.00
1	B	171	PHE	CA-C-N	5.58	129.48	117.20
2	M	423	ALA	N-CA-C	5.58	126.06	111.00
3	N	1068	LEU	CA-CB-CG	-5.49	102.69	115.30
3	D	972	LEU	CA-CB-CG	5.46	127.87	115.30
3	N	380	GLU	N-CA-C	-5.46	96.25	111.00
3	N	82	LYS	C-N-CA	-5.44	108.10	121.70
5	F	174	LEU	CA-CB-CG	5.43	127.78	115.30
2	C	861	LEU	CA-CB-CG	5.41	127.73	115.30
1	L	2	LEU	CA-CB-CG	5.38	127.67	115.30
1	B	36	LEU	CA-CB-CG	5.37	127.65	115.30
3	N	423	ASP	N-CA-C	5.37	125.50	111.00
1	L	197	LEU	CA-CB-CG	5.32	127.53	115.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	N	208	PRO	CA-N-CD	-5.32	104.06	111.50
2	C	243	ARG	C-N-CD	-5.29	108.97	120.60
3	D	380	GLU	N-CA-C	-5.29	96.72	111.00
3	D	423	ASP	N-CA-C	5.25	125.19	111.00
3	N	1395	LEU	CA-CB-CG	5.21	127.29	115.30
5	F	361	LEU	CA-CB-CG	5.21	127.28	115.30
2	C	58	ASP	C-N-CA	5.20	134.70	121.70
3	D	248	PRO	N-CA-CB	5.20	109.53	103.30
3	N	248	PRO	N-CA-CB	5.18	109.52	103.30
2	M	728	HIS	N-CA-C	5.18	124.98	111.00
1	L	132	LEU	CA-CB-CG	5.17	127.19	115.30
2	C	728	HIS	N-CA-C	5.15	124.90	111.00
3	N	1363	LEU	CA-CB-CG	5.15	127.14	115.30
2	C	394	PHE	CB-CG-CD1	-5.14	117.20	120.80
1	A	90	LEU	CA-CB-CG	-5.13	103.50	115.30
2	C	1098	ASP	CB-CG-OD1	5.11	122.90	118.30
1	A	211	LEU	CB-CG-CD2	-5.11	102.32	111.00
2	M	360	LEU	CA-CB-CG	5.10	127.02	115.30
2	M	285	LEU	CA-CB-CG	5.09	127.01	115.30
1	B	132	LEU	CA-CB-CG	5.09	127.00	115.30
3	D	1305	LEU	CA-CB-CG	5.08	126.98	115.30
3	N	813	LEU	CA-CB-CG	5.05	126.92	115.30
3	D	839	LEU	CA-CB-CG	5.05	126.91	115.30
4	O	49	GLN	N-CA-C	5.05	124.63	111.00
2	M	267	TYR	CA-CB-CG	5.03	122.95	113.40
2	M	423	ALA	CA-C-N	5.02	126.23	116.20
3	N	787	LEU	CA-CB-CG	5.02	126.84	115.30
2	C	98	LEU	CA-CB-CG	5.01	126.83	115.30

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	1806	0	1861	239	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	B	1806	0	1861	210	0
1	K	1806	0	1861	178	0
1	L	1806	0	1861	205	0
2	C	8829	0	8933	1211	0
2	M	8829	0	8933	1154	0
3	D	10728	0	10809	1434	0
3	N	10728	0	10809	1309	0
4	E	769	0	775	89	0
4	O	769	0	775	118	0
5	F	2771	0	2844	364	0
5	P	2771	0	2844	336	0
6	D	43	0	31	4	0
6	N	43	0	31	6	0
7	D	2	0	0	0	0
7	N	2	0	0	0	0
8	D	1	0	0	0	0
8	N	1	0	0	0	0
9	A	232	0	0	42	0
9	B	304	0	0	53	0
9	C	1144	0	0	274	0
9	D	1546	0	0	310	0
9	E	130	0	0	20	0
9	F	491	0	0	108	0
9	K	229	0	0	33	0
9	L	274	0	0	51	0
9	M	1072	0	0	223	0
9	N	1392	0	0	261	0
9	O	137	0	0	26	0
9	P	447	0	0	72	0
All	All	60908	0	54228	6435	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 60.

All (6435) 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)
3:N:131:LYS:HG2	3:N:568:ARG:HG2	1.30	1.08
1:A:42:ARG:HH12	2:C:857:ASP:HB3	1.09	1.06
2:M:169:GLY:HA2	2:M:263:ASP:HB3	1.36	1.05
1:K:42:ARG:HH12	2:M:857:ASP:HB3	1.22	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:457:ALA:HB3	2:C:538:GLN:HA	1.38	1.03
3:D:197:SER:HB3	3:D:203:ALA:HB3	1.41	1.03
1:K:100:LEU:HB2	1:K:115:LEU:HD11	1.39	1.02
2:C:630:ARG:HE	2:C:705:ILE:HB	1.24	1.02
3:N:197:SER:HB3	3:N:203:ALA:HB3	1.37	1.02
2:C:150:PRO:HA	2:C:158:TYR:HB3	1.39	1.02
2:M:1054:THR:HG21	2:M:1079:PRO:HB3	1.38	1.01
2:M:1114:GLY:H	2:M:1115:LEU:HD12	1.22	1.00
3:N:55:ASP:HA	3:N:82:LYS:HG3	1.42	0.99
3:N:1101:VAL:HG21	3:N:1424:VAL:HG22	1.45	0.99
2:M:150:PRO:HA	2:M:158:TYR:HB3	1.46	0.98
2:M:685:GLU:HG2	3:N:739:ASP:HB2	1.43	0.98
2:M:350:ARG:HD3	2:M:353:ARG:HH22	1.26	0.97
5:F:268:ILE:HA	5:F:271:LEU:HD12	1.46	0.97
1:A:68:ILE:HD13	1:A:138:LEU:HD11	1.46	0.97
3:D:1412:LYS:HA	9:D:9761:HOH:O	1.65	0.97
5:P:88:ILE:HD13	5:P:193:ARG:HB2	1.46	0.97
3:N:1481:VAL:HG13	4:O:18:ARG:HE	1.29	0.97
2:C:232:GLU:HA	2:C:235:LEU:HD12	1.45	0.97
3:N:637:LEU:HD21	3:N:642:CYS:HA	1.46	0.96
2:C:126:SER:HB3	2:C:407:LYS:HE2	1.47	0.96
2:C:775:ARG:HH21	2:C:782:ALA:HB1	1.31	0.95
2:C:1016:ILE:HD11	5:F:330:GLY:HA3	1.49	0.95
2:M:176:VAL:HG12	2:M:182:VAL:HG13	1.49	0.95
2:M:49:ARG:HH11	2:M:49:ARG:HB2	1.32	0.95
3:D:422:ALA:HB3	3:D:427:VAL:HG22	1.46	0.95
2:M:154:ARG:HH21	2:M:156:GLY:HA3	1.31	0.94
2:M:626:ARG:HB2	2:M:639:GLN:HE22	1.31	0.94
1:A:14:ARG:HH21	1:A:22:GLU:HB3	1.31	0.94
3:D:1232:PRO:HB3	3:D:1361:VAL:HG21	1.50	0.94
3:D:127:LEU:HD11	3:D:461:ILE:HD11	1.49	0.94
2:C:135:VAL:HG11	2:C:407:LYS:HA	1.47	0.93
2:M:1102:LEU:HB2	3:N:7:LYS:HG3	1.50	0.93
3:N:422:ALA:HB3	3:N:427:VAL:HG22	1.49	0.93
2:M:1054:THR:HG22	2:M:1059:ASP:HB2	1.49	0.93
2:C:890:LEU:HA	2:C:914:ILE:HD11	1.50	0.93
3:D:101:HIS:HD1	3:D:103:TRP:HB2	1.34	0.93
3:D:1124:GLN:HE21	3:D:1135:ARG:HG2	1.32	0.93
2:M:412:ALA:CB	2:M:451:LEU:HB3	1.99	0.92
5:P:394:ARG:HA	5:P:397:ILE:HD12	1.49	0.92
2:C:146:VAL:HG22	2:C:162:ILE:HA	1.51	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:800:LYS:HE3	3:D:830:ALA:HB3	1.52	0.92
3:N:141:ILE:HG12	3:N:449:SER:HA	1.51	0.92
5:P:347:GLN:HA	5:P:350:LEU:HD22	1.52	0.92
3:N:65:ARG:HG3	3:N:66:GLN:H	1.31	0.92
3:D:520:LEU:HD12	3:D:521:PRO:HD2	1.52	0.92
3:N:1033:GLN:HE21	3:N:1036:ARG:HH11	1.08	0.91
3:N:1262:LEU:HD21	3:N:1351:GLU:HG3	1.52	0.91
1:K:219:ARG:HH22	1:L:223:THR:HG22	1.35	0.91
3:D:795:VAL:HG23	3:D:879:ARG:HH12	1.34	0.91
1:B:152:PRO:HD2	1:B:155:LYS:HD3	1.50	0.91
2:M:578:VAL:HG23	2:M:579:VAL:HG12	1.52	0.91
2:C:979:THR:HG23	2:C:981:GLU:H	1.36	0.91
3:D:119:SER:HB2	3:D:123:LEU:H	1.34	0.90
3:N:41:ARG:HD3	3:N:43:GLY:H	1.36	0.90
2:C:328:LEU:HB2	2:C:488:ALA:HB2	1.52	0.90
5:F:205:ARG:HD2	5:F:251:ILE:HD13	1.53	0.90
3:D:661:MET:HE1	3:D:677:LEU:HD11	1.53	0.90
3:D:44:LEU:HB3	3:D:525:ARG:HH21	1.36	0.90
3:N:978:TYR:HA	9:N:2283:HOH:O	1.70	0.90
2:M:115:LEU:HD22	2:M:373:VAL:HG11	1.53	0.90
2:M:196:LEU:HD23	2:M:200:LEU:HD11	1.54	0.89
3:N:214:GLU:HB2	3:N:390:PRO:HD2	1.52	0.89
1:L:152:PRO:HD2	1:L:155:LYS:HD3	1.52	0.89
2:C:773:LEU:HB2	5:F:373:LYS:HB3	1.52	0.89
2:C:479:VAL:HG21	2:C:503:LEU:HD11	1.54	0.89
2:C:1092:LEU:HD13	2:C:1099:VAL:HG21	1.55	0.89
2:C:987:ILE:HG23	3:D:948:THR:HG21	1.54	0.89
1:L:57:TYR:HE1	1:L:163:ASN:HB2	1.36	0.89
3:N:1111:ASP:HB2	3:N:1203:LYS:HG3	1.55	0.88
2:C:49:ARG:HH11	2:C:49:ARG:HB2	1.36	0.88
2:M:979:THR:HG23	2:M:981:GLU:H	1.38	0.88
2:C:439:CYS:HB3	2:C:442:GLU:HB2	1.54	0.88
2:M:905:ILE:HD12	2:M:905:ILE:H	1.37	0.88
3:D:1481:VAL:HG11	4:E:18:ARG:HA	1.56	0.87
1:B:41:ARG:HG3	1:B:177:VAL:HG21	1.57	0.87
2:C:578:VAL:HG11	2:C:991:GLN:HB3	1.53	0.87
1:B:87:VAL:HG21	1:B:144:VAL:HG11	1.57	0.87
3:N:875:THR:HG21	3:N:902:LEU:HD13	1.57	0.87
1:A:95:GLN:HA	1:A:146:ARG:HH12	1.39	0.86
1:L:87:VAL:HG21	1:L:144:VAL:HG11	1.57	0.86
3:N:422:ALA:HB1	5:P:178:ARG:HH12	1.38	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:52:PRO:HG3	3:N:78:VAL:HG13	1.56	0.86
2:M:572:ILE:HD11	2:M:698:ASP:HB3	1.58	0.86
1:K:67:THR:H	2:M:627:ARG:NH2	1.73	0.86
2:C:305:PRO:HB3	2:C:308:ARG:HH21	1.38	0.86
3:D:1311:LEU:HA	9:D:9040:HOH:O	1.76	0.86
3:N:1018:ASN:HB3	3:N:1021:TYR:HB3	1.58	0.86
3:N:119:SER:HB2	3:N:123:LEU:H	1.41	0.86
3:D:598:ARG:NH1	5:F:319:THR:HA	1.91	0.86
1:B:86:VAL:HG12	1:B:124:ASN:HD22	1.41	0.86
5:F:125:ASP:HA	5:F:128:ARG:NH1	1.91	0.85
2:C:631:SER:HB3	2:C:637:LEU:HD21	1.55	0.85
3:D:1466:VAL:HG23	3:D:1472:ILE:HD11	1.55	0.85
3:N:1481:VAL:HG11	4:O:18:ARG:HA	1.58	0.85
3:D:973:GLN:HA	9:D:2386:HOH:O	1.76	0.85
5:F:394:ARG:HA	5:F:397:ILE:HD12	1.58	0.85
5:P:361:LEU:HD22	5:P:366:ALA:HB2	1.58	0.85
2:C:66:LEU:HD22	2:C:372:LEU:HD23	1.57	0.85
2:C:818:GLY:HA3	9:C:1150:HOH:O	1.77	0.85
3:D:18:ILE:HG23	3:D:518:PRO:HG3	1.56	0.85
3:D:654:LYS:HB3	3:D:655:PRO:HD3	1.57	0.85
5:F:85:LEU:HA	5:F:88:ILE:HD12	1.57	0.85
1:B:27:PRO:HG2	1:B:186:LEU:HD12	1.57	0.85
2:M:412:ALA:HB2	2:M:451:LEU:HB3	1.57	0.85
2:M:199:VAL:HG13	2:M:235:LEU:HG	1.58	0.85
2:M:573:ARG:HH21	2:M:697:ARG:HB2	1.42	0.84
2:M:573:ARG:NH2	2:M:697:ARG:HB2	1.92	0.84
3:N:973:GLN:HA	3:N:976:GLN:HE21	1.42	0.84
2:M:409:ARG:HA	2:M:454:SER:HA	1.59	0.84
3:D:86:ARG:O	3:D:522:PRO:HD2	1.77	0.84
2:C:41:ASN:HD22	2:C:41:ASN:H	1.22	0.84
2:C:1090:LYS:HZ2	3:D:90:MET:HG3	1.42	0.84
2:M:860:HIS:HB2	9:M:1390:HOH:O	1.75	0.84
1:A:87:VAL:HG21	1:A:144:VAL:HG11	1.59	0.84
3:D:1160:LEU:HD11	3:D:1174:LEU:HD21	1.57	0.84
2:M:964:LYS:O	2:M:968:LEU:HG	1.77	0.84
5:F:361:LEU:HD23	5:F:362:SER:H	1.43	0.84
1:A:42:ARG:NH1	2:C:857:ASP:HB3	1.92	0.84
5:P:163:LEU:HD13	5:P:174:LEU:HD21	1.60	0.84
3:D:1173:LEU:HD23	3:D:1174:LEU:HD23	1.59	0.84
2:M:904:PRO:HD2	2:M:908:GLY:HA2	1.60	0.84
3:D:118:LEU:HB3	3:D:123:LEU:HD22	1.60	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:148:GLU:HB3	3:D:151:GLN:HB2	1.57	0.84
2:C:721:ARG:HH21	2:C:783:ARG:HH21	1.24	0.84
2:C:436:GLY:HA2	2:C:538:GLN:O	1.77	0.84
3:N:1290:LEU:HD23	3:N:1291:SER:H	1.40	0.83
1:L:57:TYR:HB3	1:L:141:GLU:HG3	1.58	0.83
2:C:651:LYS:HA	9:C:1155:HOH:O	1.79	0.83
2:M:689:VAL:HB	2:M:870:ILE:HG13	1.60	0.83
9:C:1150:HOH:O	3:D:532:GLY:HA2	1.77	0.83
3:D:145:VAL:HG22	3:D:146:PRO:HD2	1.61	0.83
3:D:1495:ILE:HD11	9:E:161:HOH:O	1.77	0.83
3:D:397:LYS:HG2	9:D:9673:HOH:O	1.79	0.83
5:P:133:ALA:HA	9:P:4452:HOH:O	1.79	0.83
2:C:54:ILE:HD11	2:C:356:ARG:HG2	1.61	0.83
2:C:804:VAL:HG23	2:C:824:ARG:HB2	1.58	0.83
2:C:630:ARG:HH21	2:C:705:ILE:HG22	1.43	0.83
2:M:853:LEU:HD23	2:M:858:MET:HB3	1.58	0.83
2:M:22:GLN:NE2	2:M:336:VAL:HG21	1.93	0.83
3:N:187:LYS:HE2	3:N:213:VAL:HG12	1.61	0.83
2:C:350:ARG:HB3	2:C:350:ARG:HH11	1.42	0.83
2:C:943:VAL:HG23	2:C:985:GLY:H	1.42	0.83
2:M:1096:ALA:O	3:N:13:ALA:HB2	1.78	0.83
3:D:1101:VAL:HG21	3:D:1424:VAL:HG22	1.60	0.83
3:N:1210:SER:HA	9:N:9085:HOH:O	1.78	0.82
1:K:89:PHE:HB3	1:K:94:LEU:HD22	1.59	0.82
3:N:1205:TYR:HD2	3:N:1215:VAL:HG21	1.43	0.82
2:C:671:ASN:HD22	2:C:671:ASN:N	1.78	0.82
2:C:244:PRO:HD2	2:C:245:GLY:H	1.44	0.82
2:M:1018:GLN:HE21	2:M:1060:ILE:HD11	1.44	0.82
3:N:1277:ILE:HD12	3:N:1301:LYS:HB2	1.59	0.82
2:M:715:THR:HB	2:M:717:LEU:HG	1.61	0.82
5:P:160:ASP:HA	5:P:163:LEU:HD12	1.59	0.82
2:M:428:ARG:NH1	6:N:8002:STD:H292	1.94	0.82
2:C:953:VAL:HG13	2:C:966:LEU:HD13	1.59	0.82
1:B:57:TYR:HB3	1:B:141:GLU:HG3	1.62	0.82
3:D:561:GLY:HA3	5:F:184:ARG:HH22	1.43	0.82
5:P:120:THR:HG22	5:P:122:LEU:HD13	1.60	0.82
1:B:185:ARG:HA	9:B:592:HOH:O	1.78	0.82
1:B:74:ASP:HB3	9:B:475:HOH:O	1.77	0.82
3:N:704:ARG:HD2	3:N:705:ALA:H	1.44	0.82
3:D:720:LEU:H	3:D:720:LEU:HD12	1.45	0.82
2:M:227:PHE:HA	2:M:230:ARG:HE	1.43	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:847:GLY:HA2	9:C:1260:HOH:O	1.79	0.81
1:B:206:THR:HG22	1:B:209:GLU:HB2	1.61	0.81
4:E:67:GLU:HB2	4:E:73:LEU:HD11	1.60	0.81
3:D:133:ILE:HG21	3:D:454:ALA:HB1	1.62	0.81
3:N:699:VAL:H	3:N:756:GLN:NE2	1.77	0.81
5:P:260:ILE:HD11	5:P:310:ILE:HG22	1.63	0.81
2:C:1054:THR:HG23	2:C:1082:PRO:HG3	1.60	0.81
5:P:166:LEU:HB3	5:P:170:HIS:HB2	1.63	0.81
3:N:434:ARG:HB2	3:N:447:VAL:HG22	1.62	0.81
1:L:45:LEU:HD21	1:L:177:VAL:HG22	1.63	0.81
1:A:95:GLN:HA	1:A:146:ARG:NH1	1.94	0.81
3:D:1272:ALA:HA	3:D:1326:THR:HB	1.63	0.81
5:P:358:LEU:HD13	5:P:370:LYS:HG3	1.63	0.81
3:D:135:LEU:HD13	3:D:147:VAL:HG23	1.62	0.81
2:M:232:GLU:HA	2:M:235:LEU:HD12	1.62	0.81
2:C:328:LEU:HD13	2:C:433:THR:HB	1.60	0.81
5:F:196:VAL:HG13	5:F:213:ILE:HD11	1.61	0.81
2:C:512:ARG:HB3	2:C:523:ILE:HD11	1.61	0.81
3:D:149:LYS:HA	9:D:9019:HOH:O	1.81	0.80
3:D:1277:ILE:HD12	3:D:1301:LYS:HB2	1.62	0.80
2:C:1099:VAL:HG23	9:C:1503:HOH:O	1.81	0.80
1:L:89:PHE:HB2	1:L:94:LEU:HD13	1.63	0.80
2:C:675:ALA:HA	2:C:989:VAL:HG12	1.62	0.80
3:N:18:ILE:HG23	3:N:518:PRO:HG3	1.61	0.80
1:B:179:PHE:HB3	1:B:197:LEU:HG	1.63	0.80
5:F:166:LEU:HB3	5:F:170:HIS:HB2	1.64	0.80
2:C:710:ILE:HB	2:C:790:LEU:HD13	1.62	0.80
2:M:146:VAL:HG22	2:M:162:ILE:HA	1.64	0.80
3:N:565:ILE:H	3:N:565:ILE:HD12	1.46	0.80
1:K:87:VAL:HG21	1:K:144:VAL:HG11	1.63	0.80
3:N:493:ARG:HH21	3:N:1388:ARG:HB3	1.45	0.80
2:M:250:ARG:HG2	2:M:253:ALA:HB3	1.63	0.80
2:C:312:ALA:HB1	2:C:318:PRO:HG2	1.63	0.80
2:M:873:PRO:HB3	3:N:949:ILE:HG12	1.63	0.80
3:D:1046:GLN:HG2	3:D:1052:THR:HG22	1.63	0.80
5:P:142:ARG:HH11	5:P:142:ARG:HB3	1.46	0.80
3:N:396:VAL:HG21	3:N:447:VAL:HB	1.64	0.80
2:C:64:LEU:HD22	2:C:359:MET:HG3	1.64	0.80
5:F:337:HIS:CD2	5:F:337:HIS:H	2.00	0.80
2:M:1097:LEU:HD22	2:M:1097:LEU:H	1.47	0.80
1:L:133:GLU:HB3	9:L:5271:HOH:O	1.81	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:87:ARG:HB3	3:D:523:ASP:HB2	1.64	0.79
1:B:190:THR:HA	9:B:592:HOH:O	1.82	0.79
1:A:186:LEU:HB2	1:A:192:LEU:HD11	1.62	0.79
3:D:208:PRO:HB2	3:D:395:VAL:HG22	1.64	0.79
3:N:1205:TYR:CD2	3:N:1215:VAL:HG21	2.16	0.79
3:D:464:LEU:HA	9:D:2108:HOH:O	1.81	0.79
3:N:169:TYR:HD1	3:N:169:TYR:H	1.30	0.79
1:L:26:GLU:HB3	1:L:194:LYS:HG3	1.64	0.79
3:D:1320:GLU:HG2	3:D:1339:LYS:HE2	1.63	0.79
1:K:88:ARG:HE	1:K:121:GLU:HG2	1.46	0.79
3:D:1234:THR:HA	9:D:9918:HOH:O	1.81	0.79
3:N:1147:ARG:HB3	3:N:1188:VAL:HG21	1.64	0.79
2:C:597:ALA:HB2	2:C:655:LEU:HD21	1.63	0.79
2:M:412:ALA:HA	9:M:1151:HOH:O	1.82	0.79
3:N:1476:THR:HG23	4:O:21:VAL:HG22	1.65	0.79
2:M:312:ALA:HB1	2:M:318:PRO:HG2	1.64	0.79
3:D:1136:LYS:HB2	9:D:2265:HOH:O	1.82	0.79
3:N:1033:GLN:HE21	3:N:1036:ARG:NH1	1.80	0.79
2:C:413:LEU:HD12	2:C:413:LEU:H	1.46	0.79
3:N:86:ARG:O	3:N:522:PRO:HD2	1.81	0.79
2:C:603:VAL:HG21	2:C:643:VAL:HG11	1.65	0.79
4:E:85:LEU:HA	9:E:161:HOH:O	1.81	0.79
2:M:650:ARG:HG2	2:M:653:ASP:HB2	1.64	0.79
3:N:1261:GLU:HG2	9:N:9222:HOH:O	1.83	0.79
2:C:124:ASP:HB3	2:C:592:LEU:HD12	1.63	0.79
2:C:1054:THR:HG22	2:C:1059:ASP:HB2	1.63	0.79
4:O:54:LEU:HG	4:O:58:PRO:HG2	1.65	0.79
2:C:750:LYS:HB2	3:D:681:ARG:HH21	1.48	0.78
3:N:558:LEU:HD13	5:P:145:PRO:HB3	1.64	0.78
3:N:535:PHE:HB3	5:P:314:PRO:HB3	1.65	0.78
5:F:156:VAL:HA	5:F:159:ILE:HD12	1.65	0.78
1:K:117:VAL:HB	1:K:120:VAL:HG12	1.65	0.78
3:N:644:LEU:HD12	3:N:645:PRO:HD2	1.64	0.78
2:M:943:VAL:HG23	2:M:985:GLY:H	1.48	0.78
3:N:1412:LYS:O	3:N:1414:PRO:HD3	1.82	0.78
2:M:512:ARG:HB3	2:M:523:ILE:HD11	1.65	0.78
3:N:806:PHE:CE1	3:N:813:LEU:HB3	2.18	0.78
1:L:206:THR:HG22	1:L:209:GLU:H	1.47	0.78
3:D:1147:ARG:HB2	3:D:1166:LEU:HD21	1.66	0.78
4:O:33:HIS:HB3	9:O:5639:HOH:O	1.81	0.78
3:D:554:LEU:HA	9:D:9564:HOH:O	1.82	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:422:ARG:HA	9:M:1373:HOH:O	1.81	0.78
3:N:186:VAL:HG21	3:N:213:VAL:HB	1.63	0.78
2:M:768:THR:HB	2:M:771:GLU:HB3	1.64	0.78
3:N:133:ILE:HG21	3:N:454:ALA:HB1	1.66	0.78
2:M:274:ARG:HD2	2:M:285:LEU:HD22	1.63	0.78
3:D:101:HIS:ND1	3:D:103:TRP:HB2	1.99	0.78
3:N:152:LEU:HD23	3:N:152:LEU:H	1.44	0.78
2:M:752:GLY:H	2:M:792:VAL:HB	1.47	0.78
1:A:54:THR:HG22	1:A:158:ILE:HG13	1.66	0.78
5:F:93:LEU:HD22	5:F:98:GLU:HB3	1.64	0.78
3:N:1109:GLU:HG2	3:N:1201:CYS:HA	1.66	0.78
1:B:94:LEU:HD21	1:B:119:ASP:HB2	1.64	0.78
3:N:1372:VAL:HA	3:N:1375:MET:HE3	1.66	0.78
1:K:54:THR:HG22	1:K:158:ILE:HG13	1.66	0.78
2:C:703:ILE:HG22	9:C:1760:HOH:O	1.84	0.77
4:O:93:TYR:HB2	9:O:5639:HOH:O	1.84	0.77
2:C:137:VAL:HG23	2:C:391:LEU:HG	1.66	0.77
3:D:1374:GLN:HE22	3:D:1377:LYS:HD2	1.48	0.77
2:C:69:LEU:HG	9:C:1321:HOH:O	1.84	0.77
3:D:65:ARG:HG3	3:D:66:GLN:H	1.49	0.77
5:P:131:VAL:HG12	5:P:181:GLU:HG3	1.67	0.77
1:A:222:LEU:HD12	1:B:215:VAL:HB	1.65	0.77
3:N:1296:SER:HB3	9:N:9049:HOH:O	1.84	0.77
2:M:197:LEU:HB3	2:M:202:TYR:HB2	1.66	0.77
2:M:281:LEU:HD11	2:M:306:THR:HA	1.65	0.77
3:D:616:GLN:HG3	3:D:619:LEU:HB3	1.67	0.77
2:C:500:ASN:HD21	3:D:1067:VAL:HG23	1.50	0.77
5:F:88:ILE:HD13	5:F:193:ARG:HB2	1.65	0.77
3:D:1061:PHE:HA	9:D:9012:HOH:O	1.85	0.77
3:N:1112:CYS:HB2	3:N:1195:GLN:OE1	1.84	0.77
3:N:53:ILE:HG23	3:N:54:LYS:H	1.47	0.77
5:F:76:SER:O	5:F:80:PRO:HD2	1.83	0.77
2:M:589:ARG:HB2	2:M:589:ARG:HH11	1.49	0.77
5:F:260:ILE:HG23	5:F:264:MET:HB2	1.67	0.77
3:N:1438:ALA:O	3:N:1443:THR:HG22	1.84	0.77
1:L:156:HIS:ND1	1:L:158:ILE:HG12	1.99	0.77
3:N:566:ILE:HD11	5:P:192:LEU:HD21	1.65	0.77
2:M:197:LEU:HA	2:M:200:LEU:HD12	1.66	0.76
1:A:27:PRO:HG2	1:A:186:LEU:HD22	1.66	0.76
2:C:332:ARG:HE	2:C:464:LEU:HD11	1.49	0.76
3:N:535:PHE:O	5:P:315:VAL:N	2.17	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:65:PHE:HD1	3:N:813:LEU:HD22	1.50	0.76
2:M:244:PRO:HD2	2:M:245:GLY:H	1.49	0.76
3:D:1311:LEU:HD23	3:D:1311:LEU:H	1.51	0.76
3:D:756:GLN:O	3:D:760:ARG:HG2	1.85	0.76
1:K:42:ARG:NH1	2:M:857:ASP:HB3	1.99	0.76
1:A:20:TYR:HD2	1:A:21:GLY:N	1.83	0.76
3:D:598:ARG:HH12	5:F:319:THR:HA	1.49	0.76
1:A:206:THR:HG22	1:A:209:GLU:HG3	1.67	0.76
3:N:208:PRO:HB2	3:N:395:VAL:HG13	1.66	0.76
1:K:102:LYS:HG3	1:K:139:ASN:HB2	1.65	0.76
3:D:704:ARG:HB3	9:D:9490:HOH:O	1.84	0.76
1:A:177:VAL:O	2:C:864:GLY:HA3	1.85	0.76
1:L:194:LYS:HG2	9:L:6021:HOH:O	1.84	0.76
2:M:94:LEU:HD11	9:M:1826:HOH:O	1.84	0.76
1:B:13:VAL:HG23	9:B:396:HOH:O	1.85	0.76
3:D:445:ARG:HB2	3:D:445:ARG:HH11	1.50	0.76
2:M:939:ARG:HD3	2:M:982:PRO:HD3	1.66	0.76
2:C:626:ARG:H	2:C:639:GLN:NE2	1.83	0.76
4:O:12:MET:HG3	9:O:7062:HOH:O	1.86	0.76
3:D:111:LYS:HE2	3:D:1452:ILE:HG12	1.68	0.76
3:N:37:LEU:HA	9:N:9522:HOH:O	1.86	0.76
2:M:675:ALA:HA	2:M:989:VAL:HG12	1.66	0.76
2:C:21:ILE:HD12	2:C:21:ILE:H	1.49	0.76
2:C:343:GLN:HG2	2:C:385:PHE:HB2	1.68	0.76
3:N:145:VAL:HG22	3:N:146:PRO:HD2	1.65	0.76
1:A:14:ARG:NH2	1:A:22:GLU:HB3	1.99	0.76
2:M:1016:ILE:HD11	5:P:330:GLY:O	1.85	0.76
3:D:564:GLU:HA	3:D:567:ILE:HD12	1.68	0.76
2:C:768:THR:HB	2:C:771:GLU:HB3	1.68	0.76
3:D:1372:VAL:HA	3:D:1375:MET:SD	2.25	0.76
2:C:144:PRO:HA	2:C:163:ILE:HG12	1.68	0.76
3:D:795:VAL:HG23	3:D:879:ARG:NH1	2.01	0.76
5:P:406:ARG:HA	5:P:409:LYS:HG2	1.66	0.76
3:N:1109:GLU:OE1	3:N:1201:CYS:HB2	1.86	0.75
2:M:897:LEU:HD21	2:M:920:GLN:HE21	1.50	0.75
3:D:186:VAL:HG21	3:D:213:VAL:HB	1.68	0.75
3:D:906:GLN:HB3	3:D:911:LEU:HD11	1.68	0.75
3:N:830:ALA:HA	9:N:2273:HOH:O	1.84	0.75
3:N:191:LEU:HD13	3:N:195:VAL:HG11	1.65	0.75
3:N:139:GLY:O	3:N:147:VAL:HB	1.86	0.75
5:F:130:VAL:HG21	5:F:159:ILE:HG21	1.68	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1136:LYS:HA	9:D:9116:HOH:O	1.86	0.75
3:D:493:ARG:HH12	3:D:1389:LEU:HD12	1.51	0.75
3:N:192:ALA:O	3:N:195:VAL:HG23	1.86	0.75
1:K:123:MET:HG2	9:K:4125:HOH:O	1.85	0.75
1:B:102:LYS:HE3	9:B:503:HOH:O	1.86	0.75
3:D:1236:LEU:HD12	3:D:1256:LEU:HD13	1.69	0.75
1:B:89:PHE:HB3	1:B:94:LEU:HD13	1.68	0.75
3:D:1273:VAL:HG22	3:D:1326:THR:OG1	1.87	0.75
3:D:572:ARG:HH12	5:F:79:ASP:CG	1.90	0.75
2:M:774:LEU:HA	2:M:777:ILE:HD12	1.68	0.75
2:C:1109:VAL:HG23	3:D:3:LYS:HG2	1.67	0.75
2:M:350:ARG:HD3	2:M:353:ARG:NH2	2.01	0.75
3:D:436:GLU:HB2	3:D:445:ARG:HB3	1.68	0.75
2:C:211:LEU:HD11	2:C:308:ARG:HA	1.68	0.75
3:D:187:LYS:HE2	3:D:213:VAL:HG12	1.69	0.75
5:F:163:LEU:HB3	5:F:174:LEU:HG	1.69	0.75
3:N:817:GLU:HG3	3:N:839:LEU:HD13	1.67	0.75
2:M:1115:LEU:HB3	3:N:85:VAL:HG12	1.68	0.75
3:D:1412:LYS:O	3:D:1414:PRO:HD3	1.87	0.75
1:K:67:THR:H	2:M:627:ARG:HH21	1.32	0.75
3:N:1057:VAL:HG13	3:N:1069:GLU:HB3	1.67	0.75
3:D:136:ASP:HB3	3:D:137:PRO:HD3	1.69	0.75
1:L:103:ALA:HB1	1:L:107:LYS:HE3	1.69	0.75
2:M:837:ASP:HB2	9:M:1208:HOH:O	1.86	0.75
2:M:397:GLU:H	2:M:633:GLN:NE2	1.84	0.74
2:C:846:LYS:HD3	3:D:741:ASP:HB2	1.68	0.74
3:N:1040:GLY:O	3:N:1060:SER:HB3	1.86	0.74
3:D:1383:ASP:HB2	3:D:1416:ALA:HB3	1.68	0.74
3:D:1236:LEU:HD23	3:D:1359:GLN:HE21	1.49	0.74
3:N:41:ARG:CZ	3:N:42:ASP:HB2	2.18	0.74
2:C:1096:ALA:O	3:D:13:ALA:HB2	1.87	0.74
2:M:96:ALA:HB2	9:M:1826:HOH:O	1.86	0.74
1:B:176:ARG:HH22	3:D:884:ARG:HD3	1.50	0.74
2:M:810:ASP:HB3	2:M:813:VAL:HG22	1.69	0.74
2:C:504:GLU:OE2	2:C:509:ALA:HB2	1.88	0.74
1:B:57:TYR:HE1	1:B:163:ASN:HB2	1.51	0.74
2:C:430:VAL:HG13	3:D:1075:HIS:HA	1.69	0.74
2:M:721:ARG:HH21	2:M:783:ARG:HH21	1.34	0.74
2:M:404:LEU:HA	2:M:407:LYS:HD2	1.69	0.74
3:D:643:GLY:HA3	3:D:727:GLN:HB2	1.69	0.74
3:N:119:SER:HB2	3:N:123:LEU:HB2	1.69	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:E:88:GLU:HB2	9:E:161:HOH:O	1.85	0.74
2:M:410:ILE:O	2:M:452:ILE:HA	1.88	0.74
2:C:579:VAL:HB	2:C:890:LEU:HD22	1.70	0.74
3:D:808:THR:HB	3:D:809:PRO:HD3	1.69	0.74
5:P:270:LYS:HA	5:P:273:ARG:HD2	1.69	0.74
1:A:14:ARG:NH2	1:A:24:VAL:HG23	2.03	0.74
3:D:806:PHE:CE1	3:D:813:LEU:HB3	2.23	0.74
2:M:423:ALA:HB1	9:M:1180:HOH:O	1.86	0.74
5:F:191:ASN:HB2	9:F:598:HOH:O	1.86	0.74
2:C:546:LEU:HD21	2:C:587:VAL:HG21	1.70	0.74
2:C:751:PRO:HB2	3:D:680:GLN:HG3	1.69	0.74
2:C:705:ILE:HG13	9:C:1760:HOH:O	1.87	0.74
2:C:329:GLY:HA3	2:C:489:THR:HG23	1.70	0.74
3:N:13:ALA:HA	9:N:9038:HOH:O	1.87	0.74
3:D:210:ARG:HH11	3:D:210:ARG:HB3	1.53	0.74
2:C:1005:MET:HE1	3:D:648:MET:HB2	1.69	0.74
3:D:1127:GLU:HG3	9:D:9015:HOH:O	1.87	0.74
3:N:903:ASP:HA	9:N:9909:HOH:O	1.87	0.74
2:M:926:PHE:HE2	2:M:960:GLU:HG3	1.53	0.74
3:D:530:VAL:HA	9:D:2446:HOH:O	1.87	0.74
2:C:678:PRO:HG3	3:D:947:ILE:HD11	1.69	0.74
3:N:704:ARG:HG3	3:N:736:PHE:HB3	1.70	0.74
2:C:724:ARG:HD2	2:C:740:GLU:HA	1.70	0.73
1:A:150:TYR:HE2	1:A:152:PRO:HG3	1.51	0.73
2:C:322:VAL:HA	9:C:1224:HOH:O	1.88	0.73
2:M:1056:LYS:O	3:N:624:ASP:HB2	1.88	0.73
3:N:141:ILE:HD13	3:N:450:TYR:HB2	1.70	0.73
2:C:41:ASN:N	2:C:41:ASN:HD22	1.86	0.73
3:D:465:LEU:HD22	9:D:9443:HOH:O	1.89	0.73
5:P:269:ASN:HB3	5:P:273:ARG:HE	1.50	0.73
3:D:795:VAL:HG11	3:D:863:VAL:HG13	1.69	0.73
3:D:715:ALA:HB3	3:D:764:LEU:HA	1.70	0.73
3:N:131:LYS:HG3	3:N:572:ARG:HH21	1.54	0.73
9:D:9529:HOH:O	4:E:61:GLU:HG2	1.87	0.73
3:D:1438:ALA:O	3:D:1443:THR:HG22	1.88	0.73
5:P:358:LEU:HD11	5:P:370:LYS:HZ2	1.51	0.73
1:B:199:ILE:HD11	1:B:211:LEU:HD13	1.70	0.73
3:D:775:GLY:HA2	9:D:9258:HOH:O	1.87	0.73
4:O:31:LEU:HD21	4:O:60:ALA:HB2	1.70	0.73
2:C:945:ARG:HG3	2:C:946:ARG:N	2.04	0.73
2:C:83:CYS:HA	2:C:88:LEU:HB3	1.71	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:461:ILE:HG22	9:D:9464:HOH:O	1.89	0.73
2:M:1090:LYS:HE3	3:N:90:MET:HG2	1.68	0.73
3:D:1374:GLN:HE21	3:D:1374:GLN:HA	1.54	0.73
4:E:87:LYS:HZ3	4:E:91:ARG:HE	1.37	0.73
3:N:108:VAL:HG23	3:N:109:PRO:HD3	1.70	0.73
3:D:679:ARG:HB2	3:D:682:ASP:OD1	1.89	0.73
2:C:616:GLU:HG3	9:C:1986:HOH:O	1.88	0.73
2:M:164:PRO:HA	9:M:1138:HOH:O	1.88	0.73
3:N:875:THR:HG22	3:N:879:ARG:HE	1.51	0.73
2:M:1016:ILE:HD13	2:M:1016:ILE:H	1.54	0.73
3:N:650:LEU:HD13	3:N:688:TRP:HZ3	1.52	0.73
2:M:614:ARG:HG3	2:M:620:LEU:HD12	1.69	0.73
2:C:630:ARG:NE	2:C:705:ILE:HB	2.03	0.73
5:P:185:GLN:HA	5:P:188:ILE:HD12	1.70	0.73
2:C:478:VAL:HG13	2:C:506:ASN:HB3	1.71	0.73
1:A:95:GLN:HG2	1:A:146:ARG:HH22	1.54	0.73
5:P:361:LEU:HG	5:P:408:LEU:HD21	1.70	0.73
3:D:908:LYS:HB3	3:D:1027:GLY:HA3	1.71	0.73
2:C:1111:ILE:HG13	2:C:1112:PHE:H	1.54	0.72
3:N:1209:LEU:HD23	3:N:1210:SER:H	1.54	0.72
3:N:1209:LEU:HG	3:N:1219:GLU:OE1	1.89	0.72
5:F:337:HIS:HD2	5:F:337:HIS:H	1.36	0.72
3:D:58:CYS:SG	3:D:59:ALA:N	2.62	0.72
4:E:30:LEU:O	4:E:35:PHE:HA	1.89	0.72
2:M:1005:MET:HB2	3:N:648:MET:HE1	1.71	0.72
3:D:1096:ARG:HH11	3:D:1096:ARG:HB2	1.52	0.72
3:N:838:ARG:HB2	9:N:2269:HOH:O	1.88	0.72
2:C:771:GLU:O	2:C:775:ARG:HG2	1.88	0.72
2:M:438:ILE:HD11	2:M:467:ILE:HD12	1.72	0.72
2:C:479:VAL:CG2	2:C:503:LEU:HD11	2.19	0.72
3:D:209:ARG:NH2	3:D:397:LYS:HG3	2.04	0.72
3:N:135:LEU:HD13	3:N:147:VAL:HG23	1.72	0.72
2:C:1098:ASP:HB2	3:D:21:TRP:HZ2	1.55	0.72
3:D:210:ARG:CZ	3:D:398:ALA:HB3	2.19	0.72
3:N:549:ASN:HB2	9:N:9149:HOH:O	1.89	0.72
2:M:704:HIS:HA	9:M:1178:HOH:O	1.88	0.72
3:N:639:LEU:HD12	3:N:639:LEU:H	1.53	0.72
3:D:1109:GLU:HG2	3:D:1201:CYS:HA	1.72	0.72
1:A:24:VAL:HG22	1:A:196:THR:HB	1.70	0.72
3:D:673:ALA:HB2	9:D:9062:HOH:O	1.88	0.72
3:D:396:VAL:HG21	3:D:447:VAL:HB	1.70	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:603:VAL:HG21	2:M:643:VAL:HG11	1.70	0.72
3:D:73:CYS:HB3	3:D:76:CYS:O	1.89	0.72
3:D:513:ILE:HG23	9:D:9117:HOH:O	1.89	0.72
2:C:1008:ARG:NH2	2:C:1028:GLY:HA2	2.04	0.72
1:L:86:VAL:HG12	1:L:124:ASN:HD22	1.53	0.72
3:N:1394:VAL:HG11	9:N:2250:HOH:O	1.88	0.72
2:C:175:GLU:HA	9:C:2004:HOH:O	1.90	0.72
5:F:247:ILE:HG22	5:F:251:ILE:HD11	1.72	0.72
2:C:551:GLU:HB3	2:C:906:PHE:HD2	1.53	0.72
2:C:873:PRO:HG2	3:D:947:ILE:HD12	1.71	0.72
2:M:1015:LEU:HB2	5:P:334:PRO:O	1.89	0.72
1:L:97:VAL:HG11	1:L:120:VAL:HG21	1.71	0.72
2:M:132:ALA:HB1	2:M:632:ASN:HD21	1.54	0.72
1:B:78:ILE:HA	9:B:385:HOH:O	1.90	0.72
3:D:141:ILE:HD13	3:D:450:TYR:HB2	1.72	0.72
3:N:1223:ILE:H	3:N:1223:ILE:HD12	1.55	0.72
2:C:904:PRO:HD2	2:C:908:GLY:HA2	1.71	0.72
5:P:361:LEU:HD21	5:P:404:ALA:HB1	1.71	0.72
2:M:511:GLU:O	2:M:526:PRO:HD3	1.89	0.72
3:D:1382:THR:HG21	3:D:1418:LYS:HE3	1.71	0.72
3:N:207:PHE:HB3	3:N:208:PRO:HD2	1.71	0.72
2:M:478:VAL:HA	2:M:506:ASN:O	1.90	0.72
5:F:108:GLU:HG3	5:F:176:ILE:HG21	1.72	0.72
2:C:158:TYR:HB2	9:C:1570:HOH:O	1.89	0.72
5:F:388:ALA:HB3	9:F:553:HOH:O	1.89	0.72
1:L:41:ARG:HG3	1:L:177:VAL:HG21	1.71	0.72
3:N:723:GLY:HA3	9:N:9632:HOH:O	1.90	0.72
2:C:1054:THR:HG21	2:C:1079:PRO:HB3	1.72	0.71
3:N:643:GLY:HA3	3:N:727:GLN:HB2	1.70	0.71
2:M:72:ARG:HH21	2:M:112:GLU:HG3	1.54	0.71
2:C:1000:MET:HB3	2:C:1002:GLU:HG3	1.71	0.71
9:C:1389:HOH:O	3:D:630:VAL:HG23	1.89	0.71
3:N:808:THR:HB	3:N:809:PRO:HD3	1.73	0.71
2:M:1056:LYS:HD3	3:N:623:VAL:HG13	1.72	0.71
2:M:139:GLN:NE2	2:M:334:ARG:HH11	1.87	0.71
3:N:1189:ARG:CZ	3:N:1203:LYS:HB2	2.20	0.71
2:C:557:ARG:NH2	2:C:879:ARG:HD3	2.05	0.71
2:M:1030:GLN:HB2	3:N:626:SER:HB2	1.70	0.71
3:D:1350:GLU:O	3:D:1354:LYS:HG2	1.90	0.71
3:N:142:LEU:HD11	9:N:9710:HOH:O	1.89	0.71
2:C:274:ARG:HB2	2:C:285:LEU:HD13	1.72	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:95:GLN:H	1:L:95:GLN:HE21	1.38	0.71
3:N:148:GLU:HB3	3:N:151:GLN:HB3	1.73	0.71
2:M:207:LEU:HD13	2:M:221:LEU:HD13	1.72	0.71
2:M:289:THR:HG22	2:M:290:LEU:HD23	1.71	0.71
3:N:158:TYR:HA	9:N:9313:HOH:O	1.89	0.71
3:D:562:ALA:HB1	3:D:567:ILE:HD11	1.73	0.71
2:C:263:ASP:HB2	2:C:264:PRO:HD3	1.71	0.71
1:K:27:PRO:HB2	9:K:4607:HOH:O	1.90	0.71
3:N:1272:ALA:HA	3:N:1326:THR:HB	1.71	0.71
2:C:720:GLU:HG2	2:C:760:SER:HB3	1.70	0.71
2:M:605:LYS:HD3	2:M:610:ARG:CZ	2.20	0.71
3:N:117:ASP:HB2	3:N:495:ARG:NH2	2.04	0.71
5:P:164:LYS:HA	5:P:171:LYS:HE2	1.71	0.71
5:P:102:LEU:HD13	5:P:187:LEU:HG	1.72	0.71
3:N:1485:GLN:HE21	4:O:80:VAL:H	1.36	0.71
5:F:100:VAL:HG21	9:F:478:HOH:O	1.89	0.71
3:D:1236:LEU:HD23	3:D:1359:GLN:NE2	2.04	0.71
3:N:165:LYS:HE2	3:N:165:LYS:HA	1.73	0.71
3:D:1399:ASP:O	3:D:1403:LEU:HB2	1.90	0.71
2:M:755:LEU:HB2	2:M:790:LEU:HD23	1.73	0.71
3:N:400:VAL:HG11	3:N:441:ARG:NH1	2.06	0.71
5:P:312:GLN:HB2	9:P:4816:HOH:O	1.90	0.71
3:N:119:SER:HB2	3:N:123:LEU:N	2.05	0.71
3:D:1321:ALA:O	3:D:1339:LYS:HD3	1.91	0.71
2:M:399:ASN:O	2:M:402:SER:HB3	1.90	0.71
1:K:198:ARG:HB2	1:K:200:TRP:CZ3	2.25	0.71
1:B:103:ALA:HB1	1:B:107:LYS:HE3	1.73	0.71
1:A:219:ARG:HH22	1:B:223:THR:HG22	1.53	0.71
2:M:144:PRO:HB3	9:M:1138:HOH:O	1.91	0.71
2:C:346:VAL:O	2:C:350:ARG:HG3	1.91	0.71
1:B:24:VAL:HG13	1:B:196:THR:HG22	1.71	0.71
3:D:1137:ARG:O	3:D:1141:GLU:HG3	1.90	0.71
2:C:186:VAL:HG23	2:C:187:ASN:H	1.54	0.71
5:P:291:ILE:HG21	5:P:304:VAL:HG11	1.71	0.71
3:N:572:ARG:HH22	5:P:83:GLN:HG3	1.55	0.71
3:D:1166:LEU:HD12	3:D:1171:VAL:HG22	1.71	0.71
3:D:1047:LYS:HZ1	3:D:1053:PHE:HA	1.55	0.71
2:M:786:LYS:HA	9:M:1196:HOH:O	1.91	0.71
2:M:146:VAL:HG11	2:M:306:THR:HG22	1.71	0.70
2:M:292:ARG:HD2	2:M:299:LYS:HD3	1.71	0.70
2:M:437:ARG:NH2	2:M:488:ALA:HA	2.06	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:191:LEU:HD12	3:D:211:VAL:HG21	1.73	0.70
3:D:699:VAL:HG12	3:D:717:GLN:HA	1.70	0.70
1:A:53:VAL:HG23	9:A:481:HOH:O	1.90	0.70
2:M:17:PRO:O	2:M:20:GLU:HB2	1.90	0.70
5:P:393:THR:HG22	5:P:394:ARG:H	1.56	0.70
2:M:136:ILE:HD13	2:M:392:SER:HB2	1.72	0.70
3:D:449:SER:HB2	9:D:9007:HOH:O	1.90	0.70
3:D:1205:TYR:CD2	3:D:1215:VAL:HG21	2.26	0.70
1:K:103:ALA:HB1	1:K:107:LYS:HD3	1.73	0.70
2:M:462:ASP:HB3	2:M:468:ARG:HD2	1.72	0.70
3:D:55:ASP:HA	3:D:82:LYS:HG3	1.73	0.70
2:C:329:GLY:H	2:C:488:ALA:HB3	1.53	0.70
3:D:150:ARG:HH11	3:D:150:ARG:HG3	1.55	0.70
2:M:741:GLY:HA3	9:M:1428:HOH:O	1.90	0.70
3:D:877:PRO:HA	9:D:9080:HOH:O	1.90	0.70
2:M:820:ARG:HB2	9:M:1453:HOH:O	1.91	0.70
2:M:707:ARG:HH21	2:M:709:GLU:HB2	1.55	0.70
3:N:1432:LYS:HD2	3:N:1433:SER:H	1.54	0.70
1:K:226:SER:O	1:K:228:PRO:HD3	1.91	0.70
2:C:352:ALA:O	2:C:356:ARG:HG3	1.91	0.70
2:C:308:ARG:HH12	2:C:309:TYR:HD1	1.39	0.70
1:K:83:LYS:HE3	1:K:167:VAL:HG12	1.72	0.70
2:M:83:CYS:HA	2:M:88:LEU:HB3	1.73	0.70
3:N:185:VAL:HG12	3:N:191:LEU:HD21	1.73	0.70
2:C:313:LEU:HA	2:C:321:GLU:HG3	1.73	0.70
3:N:1095:THR:O	3:N:1099:VAL:HG23	1.90	0.70
2:M:876:VAL:HA	9:M:1223:HOH:O	1.92	0.70
3:D:194:GLY:H	3:D:206:ARG:HA	1.56	0.70
2:M:457:ALA:HB3	2:M:538:GLN:HA	1.74	0.70
2:M:362:GLY:HA3	2:M:367:LEU:HD23	1.73	0.70
2:C:478:VAL:HA	2:C:506:ASN:O	1.92	0.70
4:E:87:LYS:NZ	4:E:91:ARG:HE	1.88	0.70
3:N:1273:VAL:HG22	3:N:1326:THR:OG1	1.90	0.70
3:N:559:ALA:HA	9:P:4209:HOH:O	1.91	0.70
3:D:1099:VAL:HG13	3:D:1223:ILE:HD11	1.73	0.70
2:C:804:VAL:HG22	9:C:1991:HOH:O	1.92	0.70
2:M:710:ILE:HB	2:M:790:LEU:HD13	1.74	0.70
3:N:171:LEU:HD22	3:N:390:PRO:HG3	1.74	0.70
3:N:810:GLU:O	3:N:813:LEU:HG	1.92	0.70
3:D:1166:LEU:HD23	3:D:1166:LEU:H	1.56	0.70
3:N:906:GLN:HB3	3:N:911:LEU:HD11	1.74	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:333:ILE:CD1	2:C:467:ILE:HG13	2.22	0.70
9:N:9045:HOH:O	4:O:84:ARG:HG2	1.91	0.70
1:A:53:VAL:HG21	1:A:82:LEU:HD22	1.71	0.70
3:N:430:ASP:HB3	9:N:9129:HOH:O	1.92	0.70
3:N:46:ASP:HB3	3:N:49:ILE:HG13	1.74	0.69
3:N:124:GLU:HB2	9:N:2068:HOH:O	1.90	0.69
5:F:361:LEU:HD22	5:F:366:ALA:HB2	1.74	0.69
3:N:483:HIS:HB2	3:N:484:PRO:HD3	1.73	0.69
3:N:561:GLY:HA3	5:P:184:ARG:HH22	1.57	0.69
3:N:850:LEU:H	3:N:850:LEU:HD12	1.56	0.69
3:N:795:VAL:HG11	3:N:863:VAL:HG13	1.73	0.69
2:M:357:GLU:HG3	9:M:1526:HOH:O	1.92	0.69
2:C:231:PRO:HB3	9:C:1979:HOH:O	1.91	0.69
2:C:1050:GLN:HA	9:D:9467:HOH:O	1.92	0.69
2:M:551:GLU:HB3	2:M:906:PHE:HD2	1.56	0.69
5:F:112:ALA:HA	5:F:173:TYR:HD2	1.57	0.69
2:M:1090:LYS:HE2	3:N:88:TYR:O	1.91	0.69
2:C:432:ARG:HH12	3:D:1047:LYS:HG2	1.56	0.69
2:M:95:TYR:CD2	2:M:114:PHE:HB3	2.28	0.69
3:N:866:VAL:HG11	9:N:9036:HOH:O	1.93	0.69
3:D:1267:ARG:HB2	3:D:1267:ARG:HH11	1.56	0.69
5:P:76:SER:O	5:P:80:PRO:HD2	1.92	0.69
3:N:171:LEU:HB2	3:N:390:PRO:HA	1.74	0.69
3:N:470:LEU:HG	3:N:508:ARG:HH21	1.57	0.69
5:P:168:LYS:HG3	9:P:5800:HOH:O	1.92	0.69
1:K:24:VAL:HG22	1:K:196:THR:HB	1.73	0.69
2:C:939:ARG:HG3	9:C:1124:HOH:O	1.90	0.69
3:N:1068:LEU:O	3:N:1072:ILE:HG12	1.92	0.69
2:C:108:ILE:HB	2:C:368:THR:OG1	1.92	0.69
2:C:325:ILE:HG21	9:C:1414:HOH:O	1.91	0.69
5:F:363:GLU:O	5:F:367:MET:HG2	1.92	0.69
9:M:2105:HOH:O	5:P:409:LYS:HB2	1.93	0.69
2:M:724:ARG:HG3	2:M:741:GLY:H	1.58	0.69
3:N:1115:THR:HG22	9:N:9343:HOH:O	1.93	0.69
3:N:1156:LEU:HB3	9:N:9178:HOH:O	1.92	0.69
1:B:27:PRO:HB3	1:B:192:LEU:HD22	1.75	0.69
3:N:1192:LEU:HD12	3:N:1346:ARG:HH22	1.56	0.69
3:D:65:ARG:HB3	9:D:9625:HOH:O	1.91	0.69
3:N:400:VAL:HG12	3:N:401:TYR:HD1	1.58	0.69
3:N:488:ARG:HH11	3:N:488:ARG:HB3	1.58	0.69
3:D:1376:MET:HG2	9:D:9649:HOH:O	1.92	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:736:ASP:O	2:M:744:ARG:HG2	1.92	0.69
2:C:115:LEU:HD22	2:C:373:VAL:HG11	1.74	0.69
2:M:186:VAL:HG23	2:M:187:ASN:H	1.57	0.69
3:N:28:LYS:HB2	3:N:41:ARG:NH1	2.07	0.69
5:P:321:ILE:HG22	5:P:322:GLY:H	1.57	0.69
2:C:1090:LYS:HE2	2:C:1112:PHE:HE1	1.58	0.69
3:D:15:PRO:HB2	9:D:9069:HOH:O	1.92	0.69
3:D:1101:VAL:HG22	3:D:1428:ALA:HB2	1.75	0.69
3:N:206:ARG:O	3:N:206:ARG:HD3	1.92	0.69
3:D:477:LEU:HD22	3:D:492:ALA:HB1	1.75	0.69
1:B:36:LEU:O	1:B:39:PRO:HD2	1.93	0.69
5:F:125:ASP:HA	5:F:128:ARG:HH12	1.55	0.69
5:F:398:ARG:HG2	5:F:402:ASN:HD22	1.57	0.69
3:N:1112:CYS:HB3	3:N:1201:CYS:SG	2.31	0.69
2:C:1062:GLY:HA2	9:C:1248:HOH:O	1.93	0.69
3:D:434:ARG:HB2	3:D:447:VAL:HG22	1.73	0.69
1:B:77:GLU:HB3	9:B:475:HOH:O	1.92	0.69
2:M:474:VAL:HG11	2:M:529:VAL:HG12	1.74	0.69
2:C:110:GLU:HG2	2:C:369:PRO:HB3	1.74	0.69
1:B:58:ILE:HD13	1:B:140:MET:HB3	1.73	0.69
2:M:802:ARG:HB3	9:M:1993:HOH:O	1.91	0.69
1:A:128:HIS:HE1	1:A:131:THR:HG23	1.57	0.69
3:N:1098:LEU:HD23	3:N:1226:ALA:HA	1.73	0.69
3:D:153:LEU:CD1	3:D:157:GLU:HB2	2.22	0.69
2:C:101:ILE:HG23	2:C:107:LEU:HD22	1.73	0.69
1:L:184:THR:HG23	1:L:192:LEU:HB3	1.74	0.69
1:A:214:ALA:HA	1:A:217:ILE:HD12	1.74	0.69
3:D:1132:LEU:HA	9:D:2445:HOH:O	1.92	0.69
3:D:9:ARG:HA	3:D:1434:TRP:HH2	1.58	0.69
5:F:82:ARG:HG2	5:F:86:HIS:NE2	2.07	0.69
2:M:1015:LEU:HA	5:P:335:ASP:HB3	1.75	0.69
2:C:841:ASN:HD22	2:C:843:HIS:H	1.39	0.69
3:D:1314:LYS:HB2	9:D:9368:HOH:O	1.93	0.69
3:N:1402:ALA:HB3	9:N:9219:HOH:O	1.93	0.69
5:P:303:ARG:HD2	9:P:4749:HOH:O	1.93	0.69
2:M:35:PRO:HD2	2:M:38:LYS:HG3	1.73	0.69
2:M:346:VAL:O	2:M:350:ARG:HG2	1.92	0.69
3:D:423:ASP:HB2	5:F:178:ARG:HD2	1.75	0.69
2:M:52:PHE:CD2	2:M:68:PHE:HB2	2.28	0.69
3:N:194:GLY:H	3:N:206:ARG:HA	1.57	0.69
3:N:1087:ARG:HD2	3:N:1234:THR:O	1.93	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:206:THR:HG23	1:K:209:GLU:HB2	1.74	0.69
2:C:676:ILE:HG23	3:D:948:THR:HB	1.75	0.68
2:C:758:ARG:HB3	2:C:788:THR:O	1.93	0.68
3:N:1020:LEU:HB3	9:N:9262:HOH:O	1.93	0.68
2:M:18:LEU:HD23	2:M:404:LEU:HD21	1.74	0.68
3:N:1434:TRP:CZ3	3:N:1457:ASP:HB2	2.28	0.68
3:N:1232:PRO:HB3	3:N:1361:VAL:HG21	1.74	0.68
3:N:561:GLY:HA3	5:P:184:ARG:NH2	2.08	0.68
5:P:260:ILE:HG23	5:P:264:MET:HB2	1.74	0.68
2:C:1080:SER:HA	9:C:1199:HOH:O	1.93	0.68
3:N:1102:THR:HG22	3:N:1222:GLY:HA2	1.75	0.68
2:M:157:ARG:HG3	9:M:1827:HOH:O	1.93	0.68
3:N:619:LEU:HB2	9:N:9336:HOH:O	1.91	0.68
2:C:516:ARG:HH11	2:C:521:PRO:HB3	1.56	0.68
3:D:1410:GLU:HA	9:D:2415:HOH:O	1.93	0.68
2:M:412:ALA:HB1	2:M:419:THR:HG23	1.74	0.68
3:D:119:SER:HB2	3:D:123:LEU:N	2.05	0.68
2:C:329:GLY:N	2:C:488:ALA:HB3	2.08	0.68
3:D:704:ARG:HE	3:D:705:ALA:H	1.42	0.68
3:D:1354:LYS:HD2	9:D:9073:HOH:O	1.92	0.68
3:N:1194:CYS:HB3	3:N:1373:ARG:NH2	2.08	0.68
2:M:944:LEU:HD21	2:M:963:LEU:HD22	1.75	0.68
1:A:91:ASN:OD1	1:A:92:PRO:HD2	1.92	0.68
3:D:207:PHE:HB3	3:D:208:PRO:HD2	1.76	0.68
3:N:478:LEU:HD22	3:N:1388:ARG:HH21	1.59	0.68
3:N:1287:GLU:HA	9:N:9009:HOH:O	1.93	0.68
2:C:421:GLU:HA	9:C:1472:HOH:O	1.92	0.68
5:F:392:VAL:HG11	5:F:396:ARG:HE	1.58	0.68
3:D:26:VAL:HG11	3:D:44:LEU:HD23	1.75	0.68
5:F:113:ILE:HA	5:F:116:LEU:HD12	1.75	0.68
3:D:1197:ARG:HG3	9:D:9004:HOH:O	1.92	0.68
3:N:804:LEU:HB2	3:N:830:ALA:O	1.94	0.68
2:C:601:GLY:HA2	2:C:616:GLU:HG2	1.74	0.68
3:N:838:ARG:HD3	3:N:865:THR:HG23	1.75	0.68
3:N:1492:LEU:HA	9:N:9942:HOH:O	1.92	0.68
3:N:1493:LYS:O	3:N:1497:GLU:HG2	1.93	0.68
3:N:846:PRO:HA	9:N:9036:HOH:O	1.93	0.68
1:A:9:PRO:HD2	1:B:224:TYR:CZ	2.28	0.68
3:D:1487:VAL:HG11	3:D:1492:LEU:HG	1.74	0.68
3:D:1046:GLN:HA	3:D:1052:THR:HA	1.76	0.68
1:B:214:ALA:HA	1:B:217:ILE:HD12	1.76	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:810:GLU:HA	3:D:813:LEU:HD23	1.74	0.68
3:N:761:ILE:HG21	9:O:5032:HOH:O	1.94	0.68
2:M:780:GLU:HG3	2:M:781:LYS:H	1.58	0.68
3:D:469:ASP:HA	9:D:9515:HOH:O	1.93	0.68
2:C:1104:GLU:HA	3:D:6:ARG:HD2	1.76	0.68
3:D:598:ARG:NH1	3:D:598:ARG:HG2	2.09	0.68
3:D:63:TYR:HB3	3:D:68:PHE:CE1	2.28	0.68
3:N:800:LYS:HE3	3:N:830:ALA:HB3	1.74	0.68
3:D:1299:PHE:HB2	9:D:9155:HOH:O	1.93	0.68
3:D:67:ARG:HD3	9:D:2035:HOH:O	1.94	0.68
4:E:48:MET:HB2	4:E:54:LEU:HD12	1.76	0.68
3:D:650:LEU:HD13	3:D:688:TRP:HZ3	1.59	0.68
1:A:184:THR:HG23	1:A:192:LEU:HB2	1.76	0.68
3:D:478:LEU:HA	9:D:9267:HOH:O	1.94	0.68
2:M:1085:PHE:CD2	3:N:1468:LEU:HA	2.29	0.68
3:D:889:ALA:O	3:D:929:ARG:HD2	1.93	0.68
5:F:78:SER:HA	9:F:735:HOH:O	1.93	0.68
1:L:110:LYS:HG3	9:L:6714:HOH:O	1.93	0.68
2:M:36:PRO:HG2	2:M:70:GLU:HB3	1.75	0.68
3:D:1478:SER:O	3:D:1482:ARG:HG3	1.94	0.68
5:F:358:LEU:HD13	5:F:370:LYS:HG3	1.75	0.68
3:D:78:VAL:HG23	9:D:2450:HOH:O	1.93	0.68
5:P:401:GLU:O	5:P:405:LEU:HB2	1.92	0.68
2:M:412:ALA:HB3	2:M:451:LEU:HB3	1.75	0.68
2:C:1087:VAL:HG22	2:C:1091:GLU:OE2	1.94	0.68
2:C:1042:ALA:HB3	3:D:710:ARG:HB3	1.74	0.68
3:D:543:LEU:HA	3:D:546:ARG:HG3	1.76	0.68
3:N:661:MET:HG2	3:N:666:ILE:HD12	1.74	0.68
2:C:428:ARG:HD3	2:C:450:GLY:H	1.58	0.68
1:B:156:HIS:ND1	1:B:158:ILE:HG12	2.09	0.68
2:M:913:GLU:O	2:M:916:GLU:HB3	1.94	0.68
5:F:144:ILE:HB	5:F:145:PRO:HD3	1.75	0.68
3:N:633:VAL:HG22	3:N:635:PRO:HD3	1.75	0.68
3:N:30:GLU:HB3	3:N:40:GLU:HB3	1.76	0.68
2:C:41:ASN:H	2:C:41:ASN:ND2	1.92	0.68
3:D:172:PRO:HD2	3:D:389:GLU:O	1.93	0.68
3:D:139:GLY:O	3:D:147:VAL:HB	1.94	0.68
9:C:1170:HOH:O	3:D:648:MET:HE3	1.94	0.68
2:M:525:SER:H	2:M:528:GLU:HG3	1.59	0.68
2:C:1015:LEU:HA	9:C:1234:HOH:O	1.93	0.68
1:B:99:LEU:HD12	1:B:114:PHE:HB3	1.76	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:191:LEU:HB3	3:N:195:VAL:HG21	1.75	0.67
2:M:1082:PRO:HG2	3:N:1469:GLY:HA3	1.74	0.67
4:E:10:PHE:HE2	4:E:16:LYS:HG3	1.59	0.67
1:L:94:LEU:HD21	1:L:119:ASP:HB2	1.76	0.67
3:N:658:LEU:HA	3:N:661:MET:HE3	1.76	0.67
5:P:155:THR:HA	9:P:3694:HOH:O	1.92	0.67
1:A:102:LYS:HG3	1:A:139:ASN:HB2	1.75	0.67
5:F:314:PRO:HD2	9:F:481:HOH:O	1.93	0.67
3:D:728:LEU:HD22	3:D:745:MET:SD	2.34	0.67
5:F:94:LEU:HD23	5:F:96:LEU:H	1.59	0.67
3:D:854:ALA:HB3	9:D:9283:HOH:O	1.94	0.67
3:D:1316:GLY:HA3	9:D:9350:HOH:O	1.92	0.67
3:N:622:ARG:HD2	9:P:5569:HOH:O	1.93	0.67
3:N:1383:ASP:HB2	3:N:1416:ALA:HB3	1.76	0.67
3:N:715:ALA:HB3	3:N:764:LEU:HA	1.76	0.67
3:D:1462:LEU:HD22	3:D:1472:ILE:HG23	1.75	0.67
3:D:145:VAL:HB	9:D:2447:HOH:O	1.93	0.67
3:N:95:LEU:HD21	3:N:574:LEU:HD11	1.75	0.67
3:D:161:LEU:HD22	3:D:452:ILE:HG21	1.76	0.67
3:D:386:HIS:HA	9:D:2147:HOH:O	1.94	0.67
2:M:432:ARG:HH11	3:N:1048:PRO:HG2	1.58	0.67
3:D:1306:PRO:HB3	3:D:1307:LYS:HE3	1.76	0.67
5:F:215:GLU:HB2	9:F:482:HOH:O	1.95	0.67
3:D:195:VAL:HG13	9:D:9209:HOH:O	1.94	0.67
3:D:554:LEU:HD22	9:D:9564:HOH:O	1.94	0.67
2:C:1000:MET:SD	2:C:1001:VAL:HG22	2.34	0.67
2:C:511:GLU:O	2:C:526:PRO:HD3	1.94	0.67
3:D:978:TYR:HE1	3:D:985:ASP:HA	1.60	0.67
1:A:100:LEU:HD11	9:A:408:HOH:O	1.94	0.67
2:C:379:GLU:HG3	2:C:383:ARG:HH12	1.60	0.67
3:D:1324:PRO:HA	9:D:9450:HOH:O	1.94	0.67
3:D:1412:LYS:HG2	3:D:1414:PRO:HG3	1.76	0.67
1:A:30:ARG:NH1	1:A:191:ASP:HB2	2.10	0.67
1:K:117:VAL:HB	1:K:120:VAL:CG1	2.25	0.67
2:C:71:TYR:HB2	9:C:1203:HOH:O	1.93	0.67
5:P:88:ILE:CD1	5:P:193:ARG:HB2	2.22	0.67
5:F:220:LEU:HB2	5:F:243:ILE:HD11	1.76	0.67
3:N:906:GLN:HB3	3:N:911:LEU:CD1	2.25	0.67
2:C:712:ALA:O	2:C:820:ARG:HB3	1.94	0.67
3:N:1409:ALA:HB1	9:N:9241:HOH:O	1.94	0.67
1:A:130:ALA:HB1	9:A:328:HOH:O	1.92	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:420:ARG:HD2	2:C:420:ARG:H	1.59	0.67
2:M:169:GLY:HA2	2:M:263:ASP:CB	2.20	0.67
5:P:130:VAL:HG21	5:P:159:ILE:HG21	1.76	0.67
3:D:676:MET:HG3	9:D:9271:HOH:O	1.92	0.67
3:D:214:GLU:HB2	3:D:390:PRO:HD2	1.75	0.67
2:C:36:PRO:HG2	2:C:70:GLU:HB3	1.75	0.67
3:D:899:LEU:HD12	3:D:900:ILE:HG23	1.76	0.67
1:B:22:GLU:HG2	1:B:198:ARG:HG2	1.76	0.67
3:N:690:ALA:O	3:N:694:VAL:HG23	1.95	0.67
4:O:70:THR:HG21	4:O:72:ARG:CZ	2.25	0.67
4:E:36:LYS:HB3	9:E:130:HOH:O	1.95	0.67
2:C:358:ARG:HH22	2:C:374:ASN:HB3	1.58	0.67
2:M:263:ASP:HB2	2:M:264:PRO:HD3	1.76	0.67
2:M:1054:THR:HG21	2:M:1079:PRO:CB	2.18	0.67
3:D:667:ALA:HB2	9:D:9271:HOH:O	1.93	0.67
5:P:138:SER:H	5:P:140:ARG:CZ	2.08	0.67
3:N:381:ALA:HA	9:N:2123:HOH:O	1.93	0.67
1:K:9:PRO:HB2	1:L:224:TYR:HB3	1.76	0.67
1:L:168:ASP:HA	9:L:6431:HOH:O	1.94	0.67
1:B:30:ARG:HE	2:C:854:PRO:HG3	1.59	0.67
2:M:251:ASP:HB3	2:M:252:LYS:HD2	1.77	0.67
2:M:265:ARG:HG2	2:M:266:ARG:N	2.10	0.67
2:C:676:ILE:CG2	2:C:988:VAL:HG22	2.24	0.67
3:D:1498:ALA:HB1	9:E:165:HOH:O	1.94	0.67
2:C:145:GLY:O	2:C:163:ILE:HG23	1.94	0.67
3:D:486:ARG:HH21	3:D:489:ARG:NH2	1.92	0.67
5:P:208:SER:HB2	5:P:211:ASP:CG	2.14	0.67
2:M:177:GLU:HB2	9:M:1718:HOH:O	1.95	0.67
1:L:46:SER:HB2	9:L:4292:HOH:O	1.95	0.67
3:D:12:LEU:HD21	3:D:104:PHE:HE1	1.59	0.67
3:N:1393:GLN:HB2	3:N:1398:TRP:NE1	2.10	0.67
2:M:144:PRO:HA	2:M:163:ILE:HG13	1.77	0.66
2:M:207:LEU:HD22	2:M:221:LEU:HD22	1.77	0.66
2:C:1008:ARG:HH21	2:C:1028:GLY:HA2	1.60	0.66
2:C:1084:SER:O	2:C:1087:VAL:HG12	1.94	0.66
3:D:165:LYS:HB3	3:D:395:VAL:HG11	1.75	0.66
5:P:138:SER:H	5:P:140:ARG:NH2	1.93	0.66
2:M:42:VAL:HG12	2:M:43:GLY:H	1.60	0.66
3:D:500:ARG:HG3	9:D:2428:HOH:O	1.94	0.66
2:M:162:ILE:HB	2:M:172:ILE:HB	1.76	0.66
2:M:140:ILE:HA	2:M:332:ARG:O	1.95	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:85:LEU:HD12	1:B:124:ASN:HB3	1.77	0.66
3:D:171:LEU:HD11	3:D:388:HIS:CB	2.24	0.66
1:A:128:HIS:CE1	1:A:131:THR:HG23	2.30	0.66
3:N:1046:GLN:HA	3:N:1052:THR:HA	1.77	0.66
2:C:586:ARG:HD3	9:C:1768:HOH:O	1.94	0.66
3:N:416:ALA:HB2	9:N:2085:HOH:O	1.94	0.66
2:C:470:PRO:HG2	2:C:538:GLN:OE1	1.96	0.66
5:F:363:GLU:HA	5:F:367:MET:HE2	1.75	0.66
5:P:151:LEU:HD13	5:P:154:LYS:HB3	1.75	0.66
3:N:828:LYS:HD2	9:N:9243:HOH:O	1.95	0.66
3:D:544:TYR:O	3:D:548:ILE:HG12	1.94	0.66
3:D:824:ASN:HB3	9:D:9067:HOH:O	1.96	0.66
3:D:955:VAL:HB	3:D:1011:PHE:HE1	1.60	0.66
2:M:326:ASP:HB2	2:M:431:HIS:ND1	2.10	0.66
3:N:983:LEU:HA	9:N:9324:HOH:O	1.95	0.66
2:C:773:LEU:HB2	5:F:373:LYS:CB	2.26	0.66
5:F:363:GLU:HA	5:F:367:MET:CE	2.26	0.66
3:D:191:LEU:HD13	3:D:195:VAL:HG11	1.77	0.66
2:C:500:ASN:HB2	9:C:1931:HOH:O	1.95	0.66
3:D:787:LEU:HD21	3:D:947:ILE:HD13	1.78	0.66
4:E:87:LYS:HZ2	4:E:91:ARG:HH21	1.42	0.66
2:M:724:ARG:HG3	2:M:740:GLU:HA	1.75	0.66
3:D:233:LYS:HA	9:D:9066:HOH:O	1.96	0.66
2:M:492:ASP:HB3	2:M:518:LYS:HD3	1.76	0.66
5:F:273:ARG:HA	5:F:276:ARG:HD2	1.77	0.66
2:M:1092:LEU:HD13	2:M:1099:VAL:HG21	1.77	0.66
5:F:291:ILE:HG21	5:F:304:VAL:HG11	1.77	0.66
1:L:102:LYS:HG3	1:L:139:ASN:HB2	1.78	0.66
2:M:262:ALA:HB3	9:M:1344:HOH:O	1.96	0.66
3:N:928:ALA:HA	3:N:931:LEU:HD12	1.78	0.66
1:K:58:ILE:HD12	1:K:138:LEU:HD11	1.78	0.66
2:M:200:LEU:HD13	2:M:300:ASP:CG	2.16	0.66
2:M:453:THR:HA	9:M:1130:HOH:O	1.94	0.66
1:B:57:TYR:HB3	1:B:141:GLU:CG	2.26	0.66
2:M:773:LEU:O	2:M:777:ILE:HG13	1.96	0.66
1:A:8:ALA:HB1	1:B:224:TYR:HE1	1.59	0.66
2:M:507:ARG:HB2	2:M:507:ARG:HH11	1.60	0.66
3:N:520:LEU:HD12	3:N:521:PRO:HD2	1.76	0.66
1:A:30:ARG:HH11	1:A:191:ASP:HB2	1.58	0.66
5:P:350:LEU:HD23	5:P:351:SER:N	2.11	0.66
3:D:1495:ILE:HG12	4:E:80:VAL:HG11	1.78	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:89:PHE:HD1	1:K:120:VAL:HG23	1.60	0.66
5:F:80:PRO:HA	5:F:83:GLN:HB2	1.78	0.66
3:D:1144:LEU:HB3	3:D:1166:LEU:HD11	1.76	0.66
1:A:219:ARG:HH22	1:B:223:THR:CG2	2.08	0.66
1:K:218:LEU:HD23	1:L:222:LEU:HD21	1.77	0.66
1:L:20:TYR:OH	1:L:198:ARG:HD2	1.96	0.66
2:M:437:ARG:HB3	2:M:467:ILE:HB	1.77	0.66
5:P:358:LEU:HD21	5:P:370:LYS:HE3	1.78	0.66
2:C:1090:LYS:HZ2	3:D:90:MET:CG	2.09	0.66
3:D:572:ARG:HH21	5:F:83:GLN:NE2	1.94	0.66
2:M:34:VAL:HB	2:M:38:LYS:HG3	1.78	0.66
3:D:996:TRP:HE3	3:D:999:THR:HG21	1.59	0.66
3:D:996:TRP:CE3	3:D:999:THR:HG21	2.31	0.66
1:A:63:HIS:HB3	2:C:746:GLY:HA2	1.78	0.66
1:L:178:ALA:HA	9:L:6698:HOH:O	1.96	0.66
3:D:1124:GLN:NE2	3:D:1135:ARG:HG2	2.07	0.66
2:C:676:ILE:HG21	2:C:988:VAL:HG22	1.78	0.66
3:N:1147:ARG:HB3	3:N:1188:VAL:CG2	2.25	0.66
3:D:1047:LYS:HA	3:D:1053:PHE:CE1	2.31	0.66
2:C:264:PRO:HB3	2:C:289:THR:HG21	1.76	0.66
2:C:12:VAL:HG12	2:C:13:ILE:HG23	1.77	0.66
5:P:207:LEU:HB3	5:P:212:LEU:HG	1.78	0.66
2:C:276:LYS:HB3	9:C:1659:HOH:O	1.96	0.66
2:M:150:PRO:HG3	2:M:158:TYR:HD2	1.60	0.66
3:D:421:LEU:HD12	3:D:435:VAL:HG11	1.78	0.66
3:N:422:ALA:H	3:N:427:VAL:HG11	1.59	0.66
4:O:30:LEU:O	4:O:35:PHE:HA	1.94	0.66
3:D:175:VAL:HG12	3:D:176:ASP:OD1	1.96	0.66
3:D:177:ALA:HB1	3:D:199:LEU:HD22	1.78	0.66
3:D:100:ALA:HA	9:D:2414:HOH:O	1.96	0.65
2:M:139:GLN:HE21	2:M:334:ARG:HH11	1.43	0.65
5:F:213:ILE:HG22	5:F:217:ASN:HD21	1.60	0.65
3:N:119:SER:H	3:N:123:LEU:HB2	1.61	0.65
1:A:143:ARG:HG3	1:A:144:VAL:N	2.10	0.65
3:N:1468:LEU:HD22	3:N:1470:ARG:HB2	1.77	0.65
1:A:46:SER:HB3	2:C:856:GLU:HG3	1.78	0.65
4:O:34:GLY:HA3	9:O:5632:HOH:O	1.96	0.65
1:L:99:LEU:HA	9:L:4894:HOH:O	1.95	0.65
3:D:1209:LEU:HD22	3:D:1211:MET:HB3	1.77	0.65
2:C:675:ALA:HB2	2:C:867:VAL:HG11	1.79	0.65
5:P:144:ILE:HB	5:P:145:PRO:HD3	1.78	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1072:ILE:HA	3:D:1075:HIS:HD2	1.61	0.65
2:C:291:ALA:O	2:C:299:LYS:HE2	1.96	0.65
1:L:84:GLU:HB2	9:N:9385:HOH:O	1.94	0.65
1:K:58:ILE:HB	1:K:61:VAL:HB	1.78	0.65
3:D:980:MET:HE1	9:D:9118:HOH:O	1.96	0.65
2:C:588:VAL:HB	9:C:1450:HOH:O	1.96	0.65
1:K:161:ARG:NH1	1:K:161:ARG:HB2	2.10	0.65
3:D:1214:PRO:HB2	9:D:9171:HOH:O	1.96	0.65
1:B:27:PRO:O	1:B:28:LEU:HD23	1.97	0.65
1:A:156:HIS:HD2	1:A:157:GLY:H	1.43	0.65
2:C:605:LYS:HD3	2:C:612:VAL:HB	1.78	0.65
2:C:571:LEU:HD21	2:C:700:TYR:HD2	1.61	0.65
2:M:1007:ALA:HB2	3:N:648:MET:HG3	1.77	0.65
3:N:1403:LEU:HD23	3:N:1407:LEU:HD22	1.78	0.65
2:C:836:GLY:HA2	3:D:725:SER:OG	1.96	0.65
3:D:33:ASN:HB2	3:D:40:GLU:OE1	1.96	0.65
2:C:384:GLU:HG3	2:C:388:ARG:HE	1.62	0.65
2:C:769:PRO:HA	9:F:832:HOH:O	1.94	0.65
2:M:218:VAL:HA	2:M:221:LEU:HD23	1.77	0.65
3:N:699:VAL:H	3:N:756:GLN:HE22	1.42	0.65
5:P:371:LEU:HD22	5:P:375:LEU:HD22	1.79	0.65
5:F:196:VAL:HG22	5:F:213:ILE:HD13	1.79	0.65
2:M:1098:ASP:HB3	9:N:9038:HOH:O	1.95	0.65
3:N:474:GLU:O	3:N:478:LEU:HG	1.97	0.65
1:B:59:GLU:HG2	1:B:139:ASN:O	1.96	0.65
2:C:945:ARG:HB2	2:C:945:ARG:CZ	2.26	0.65
2:M:714:ASP:HB2	9:M:1453:HOH:O	1.97	0.65
3:D:1314:LYS:NZ	3:D:1317:ASP:H	1.94	0.65
2:C:516:ARG:HD3	2:C:521:PRO:HA	1.79	0.65
1:K:161:ARG:HH11	1:K:161:ARG:HB2	1.60	0.65
2:M:92:ALA:HB2	2:M:120:LEU:HD11	1.79	0.65
2:M:694:LEU:HD11	2:M:868:ASP:HB3	1.78	0.65
3:N:73:CYS:HB2	9:N:9191:HOH:O	1.96	0.65
1:A:226:SER:O	1:A:228:PRO:HD3	1.95	0.65
2:M:431:HIS:CD2	2:M:433:THR:H	2.13	0.65
2:C:99:GLN:HG2	9:C:1321:HOH:O	1.95	0.65
3:D:1055:VAL:HG13	9:D:9713:HOH:O	1.96	0.65
2:C:717:LEU:HB3	9:C:2169:HOH:O	1.97	0.65
2:M:464:LEU:HG	9:M:1433:HOH:O	1.96	0.65
3:D:537:THR:C	5:F:317:LEU:HB2	2.17	0.65
3:N:52:PRO:CG	3:N:78:VAL:HG13	2.26	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:475:LYS:HA	3:N:478:LEU:HD12	1.78	0.65
3:D:699:VAL:HG22	3:D:756:GLN:NE2	2.12	0.65
3:N:1117:TYR:HD2	9:N:9343:HOH:O	1.79	0.65
1:A:8:ALA:HB1	1:B:224:TYR:CE1	2.31	0.65
1:A:11:PHE:CD1	1:B:225:PHE:HA	2.32	0.65
3:D:36:THR:HB	3:D:38:LYS:HG3	1.78	0.65
1:B:123:MET:C	1:B:125:PRO:HD3	2.17	0.65
2:M:444:PRO:HA	9:M:2038:HOH:O	1.95	0.65
2:C:961:GLU:HG3	9:C:1815:HOH:O	1.97	0.65
2:M:728:HIS:HB3	2:M:729:LEU:HD12	1.77	0.65
2:M:290:LEU:HB3	2:M:302:VAL:CG1	2.27	0.65
2:M:626:ARG:NH1	2:M:637:LEU:HD12	2.11	0.65
2:M:428:ARG:NH1	6:N:8002:STD:C29	2.60	0.65
3:D:598:ARG:HH22	5:F:318:GLU:C	2.00	0.65
3:D:171:LEU:HB2	3:D:390:PRO:HA	1.77	0.65
3:D:546:ARG:O	3:D:550:ARG:HG2	1.96	0.65
3:N:1465:ASN:HD21	3:N:1470:ARG:HD3	1.62	0.65
3:N:125:GLN:HE22	3:N:587:ARG:HE	1.44	0.65
2:C:197:LEU:HB3	2:C:202:TYR:HB2	1.79	0.65
4:O:78:ASN:HB3	9:O:3505:HOH:O	1.96	0.65
3:D:579:ASP:HB2	9:D:9169:HOH:O	1.96	0.65
1:A:57:TYR:CE2	1:A:161:ARG:HD2	2.31	0.65
1:L:7:LYS:HD2	9:L:3648:HOH:O	1.95	0.65
2:M:739:GLU:HB3	9:M:1183:HOH:O	1.96	0.65
3:D:704:ARG:NE	3:D:705:ALA:H	1.94	0.65
1:L:192:LEU:HD12	9:L:5714:HOH:O	1.97	0.65
3:N:455:ARG:HH12	3:N:463:GLN:HG3	1.62	0.65
3:N:963:TYR:CD2	3:N:1002:LYS:HB3	2.32	0.65
3:N:1063:GLU:HG3	3:N:1064:GLY:H	1.62	0.65
2:C:405:ARG:CZ	2:C:566:THR:HG21	2.26	0.65
2:M:289:THR:HB	9:M:1731:HOH:O	1.97	0.65
3:D:422:ALA:HB3	3:D:427:VAL:CG2	2.24	0.65
3:N:153:LEU:HD11	3:N:158:TYR:N	2.12	0.65
5:F:321:ILE:HB	5:F:327:SER:OG	1.95	0.65
5:F:317:LEU:O	5:F:329:TYR:HB3	1.97	0.65
1:K:67:THR:N	2:M:627:ARG:HH21	1.94	0.65
3:D:211:VAL:HG13	3:D:393:ILE:HA	1.78	0.65
5:P:403:LYS:NZ	5:P:403:LYS:HA	2.11	0.65
3:N:800:LYS:HE2	3:N:804:LEU:HD22	1.79	0.65
2:C:274:ARG:HD2	2:C:285:LEU:HD22	1.79	0.65
1:A:71:VAL:HG13	9:A:328:HOH:O	1.96	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:584:GLU:CD	2:M:584:GLU:H	1.99	0.65
9:C:1690:HOH:O	3:D:5:VAL:HA	1.94	0.65
1:B:129:ILE:HG12	9:B:474:HOH:O	1.95	0.65
3:D:1384:PRO:HG2	9:D:9535:HOH:O	1.97	0.65
4:E:6:ILE:HA	4:E:9:LEU:HD12	1.79	0.65
2:C:93:PRO:HG3	2:C:117:HIS:HE1	1.62	0.65
3:N:136:ASP:CB	3:N:137:PRO:HD3	2.27	0.65
2:C:1085:PHE:CD2	3:D:1468:LEU:HA	2.31	0.65
2:C:1090:LYS:HE2	2:C:1112:PHE:CE1	2.31	0.65
3:D:531:ASP:H	3:D:534:ARG:HB2	1.62	0.65
2:C:701:THR:HG23	2:C:832:LYS:HG3	1.79	0.65
2:C:945:ARG:NH1	2:C:945:ARG:HB2	2.12	0.65
2:C:423:ALA:HB2	6:D:8001:STD:H10	1.77	0.65
3:N:1105:ILE:HD11	3:N:1374:GLN:NE2	2.12	0.65
1:B:3:ASP:HA	9:B:538:HOH:O	1.97	0.65
3:N:592:THR:HA	9:N:9335:HOH:O	1.95	0.65
3:N:1267:ARG:HH21	3:N:1271:LYS:HD2	1.62	0.65
2:M:192:PRO:HB3	9:M:1875:HOH:O	1.96	0.64
2:C:1097:LEU:HD22	2:C:1097:LEU:H	1.62	0.64
2:C:671:ASN:ND2	2:C:671:ASN:N	2.45	0.64
2:M:227:PHE:HA	2:M:230:ARG:NE	2.11	0.64
3:N:950:GLY:H	3:N:953:ASP:HB2	1.62	0.64
3:D:97:THR:HG21	3:D:571:LYS:HD3	1.78	0.64
3:D:153:LEU:HD12	3:D:154:THR:N	2.12	0.64
2:C:926:PHE:O	2:C:930:LYS:HG3	1.95	0.64
2:C:198:ARG:NH2	2:C:204:GLN:H	1.96	0.64
2:M:139:GLN:O	2:M:333:ILE:HA	1.98	0.64
2:M:328:LEU:HD21	2:M:434:HIS:HA	1.80	0.64
3:N:860:LEU:HB2	3:N:861:GLN:NE2	2.12	0.64
3:N:15:PRO:HA	3:N:18:ILE:HG12	1.78	0.64
3:D:1106:VAL:HG13	9:D:9516:HOH:O	1.96	0.64
3:D:1468:LEU:HD13	3:D:1470:ARG:HD3	1.79	0.64
3:D:394:LEU:HD13	9:D:9961:HOH:O	1.98	0.64
2:C:627:ARG:HG2	9:C:1542:HOH:O	1.96	0.64
2:C:301:GLU:HG2	9:C:1862:HOH:O	1.96	0.64
4:E:25:LYS:HA	4:E:28:GLN:HE21	1.63	0.64
3:N:1146:GLY:HA3	3:N:1207:TYR:HB2	1.80	0.64
3:D:1393:GLN:HB2	3:D:1398:TRP:CZ2	2.32	0.64
1:A:76:VAL:HB	9:A:404:HOH:O	1.97	0.64
3:D:487:ALA:HB3	9:D:9146:HOH:O	1.97	0.64
3:N:984:THR:HG22	3:N:987:GLU:H	1.63	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:33:ASN:HB2	3:N:40:GLU:OE1	1.98	0.64
1:L:132:LEU:HB2	9:L:5877:HOH:O	1.97	0.64
3:D:1379:VAL:HG12	3:D:1419:PRO:HA	1.78	0.64
2:C:664:GLY:HA2	9:C:1145:HOH:O	1.97	0.64
2:M:549:PHE:CD2	2:M:886:LEU:HB3	2.33	0.64
1:K:78:ILE:HA	1:K:81:ASN:ND2	2.12	0.64
2:C:778:PHE:CZ	5:F:409:LYS:HB2	2.32	0.64
3:D:1474:ALA:HB1	9:D:9516:HOH:O	1.97	0.64
3:D:1264:GLU:OE1	3:D:1425:THR:HB	1.97	0.64
5:P:416:ARG:HH11	5:P:419:ARG:HB2	1.63	0.64
2:C:605:LYS:HE2	2:C:610:ARG:NH1	2.12	0.64
3:D:1132:LEU:HD12	9:D:2445:HOH:O	1.98	0.64
9:N:9881:HOH:O	4:O:5:GLY:HA2	1.96	0.64
2:M:779:GLY:HA3	9:M:1784:HOH:O	1.96	0.64
5:P:85:LEU:HD23	9:P:5610:HOH:O	1.97	0.64
3:N:705:ALA:HB3	3:N:706:PRO:HD3	1.80	0.64
1:L:107:LYS:HB2	9:L:4679:HOH:O	1.96	0.64
1:B:102:LYS:HG3	1:B:139:ASN:HB2	1.80	0.64
1:L:80:LEU:HB3	3:N:867:ARG:NH2	2.12	0.64
2:M:92:ALA:HB1	9:M:2075:HOH:O	1.96	0.64
2:C:212:GLY:HA3	2:C:218:VAL:HG23	1.79	0.64
3:N:367:ILE:HA	9:N:9641:HOH:O	1.98	0.64
5:F:395:GLU:O	5:F:399:GLN:HB2	1.97	0.64
1:K:20:TYR:HD2	1:K:21:GLY:H	1.45	0.64
3:D:379:ALA:HA	9:D:9392:HOH:O	1.98	0.64
2:C:505:GLY:HA3	9:C:1255:HOH:O	1.98	0.64
2:C:151:ASP:HB2	2:C:157:ARG:O	1.98	0.64
2:M:148:PHE:HZ	2:M:281:LEU:HD13	1.62	0.64
2:M:139:GLN:NE2	2:M:418:LEU:HD22	2.12	0.64
2:M:610:ARG:HB2	9:M:1533:HOH:O	1.97	0.64
3:D:1264:GLU:HG2	3:D:1266:ARG:NH2	2.13	0.64
2:M:650:ARG:HB2	9:M:1692:HOH:O	1.96	0.64
1:L:185:ARG:HG3	1:L:190:THR:HG22	1.78	0.64
3:D:721:VAL:HA	9:D:2048:HOH:O	1.96	0.64
5:F:87:GLU:O	5:F:91:VAL:HG23	1.98	0.64
3:N:2:LYS:HB2	9:N:9354:HOH:O	1.98	0.64
3:D:838:ARG:HH11	3:D:874:GLU:HB3	1.61	0.64
2:C:810:ASP:HB3	2:C:813:VAL:HG22	1.80	0.64
5:P:128:ARG:HD2	9:P:4586:HOH:O	1.96	0.64
2:C:150:PRO:CA	2:C:158:TYR:HB3	2.22	0.64
3:N:12:LEU:HD22	3:N:511:TRP:HB2	1.80	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:810:GLU:O	3:D:813:LEU:HG	1.98	0.64
2:C:517:ARG:NH1	2:C:522:VAL:HG11	2.13	0.64
3:N:630:VAL:HA	3:N:744:GLN:HG2	1.79	0.64
2:M:30:LEU:HB3	2:M:44:ILE:HD12	1.77	0.64
5:F:214:GLN:HA	5:F:217:ASN:HD22	1.62	0.64
3:N:1109:GLU:HA	9:N:9975:HOH:O	1.97	0.64
3:N:52:PRO:CB	3:N:80:VAL:HG13	2.27	0.64
3:N:119:SER:CB	3:N:123:LEU:HB2	2.28	0.64
3:D:161:LEU:HD13	3:D:452:ILE:HD12	1.78	0.64
2:M:1110:ASP:HA	9:M:1272:HOH:O	1.97	0.64
2:C:267:TYR:HB2	9:C:1724:HOH:O	1.98	0.64
3:N:1031:ASN:HB3	3:N:1034:GLN:CD	2.17	0.64
2:M:197:LEU:HD12	2:M:207:LEU:HD11	1.79	0.64
2:C:433:THR:HG21	2:C:488:ALA:HB1	1.80	0.64
2:M:285:LEU:O	2:M:285:LEU:HD23	1.98	0.64
1:A:54:THR:HG21	9:A:409:HOH:O	1.98	0.64
2:M:31:GLN:HB3	2:M:71:TYR:OH	1.97	0.64
2:C:286:SER:HB3	2:C:299:LYS:HE3	1.79	0.64
2:C:958:THR:HG23	2:C:961:GLU:HB2	1.80	0.64
2:C:348:LEU:HD21	9:C:1976:HOH:O	1.97	0.64
1:L:58:ILE:HB	1:L:61:VAL:HB	1.80	0.64
2:C:30:LEU:HB3	2:C:44:ILE:HD12	1.80	0.64
3:N:197:SER:HB2	3:N:205:TYR:CZ	2.33	0.64
3:N:179:VAL:HG22	3:N:389:GLU:HG3	1.80	0.64
5:F:398:ARG:HB2	9:F:818:HOH:O	1.97	0.64
2:C:1067:TYR:CG	5:F:341:PRO:HB3	2.33	0.64
2:M:674:VAL:HG21	2:M:871:LEU:HD12	1.80	0.64
3:D:478:LEU:HD22	3:D:1388:ARG:NH2	2.14	0.64
3:N:1267:ARG:HH11	3:N:1267:ARG:HB2	1.63	0.64
1:K:26:GLU:HB3	1:K:194:LYS:HG3	1.80	0.64
1:A:18:ARG:O	1:A:207:PRO:HD3	1.97	0.64
3:D:1406:ARG:HA	9:D:9761:HOH:O	1.98	0.63
2:C:437:ARG:HG2	2:C:467:ILE:HG22	1.80	0.63
3:N:1493:LYS:HB3	9:N:9467:HOH:O	1.96	0.63
3:N:1415:VAL:HG23	9:N:9100:HOH:O	1.97	0.63
3:D:448:GLU:HB3	9:D:9158:HOH:O	1.98	0.63
1:L:175:ARG:O	3:N:851:LEU:HD21	1.98	0.63
3:D:60:CYS:HA	9:D:2260:HOH:O	1.97	0.63
5:F:278:LEU:O	5:F:282:LEU:HG	1.98	0.63
3:N:1166:LEU:HD23	3:N:1166:LEU:H	1.63	0.63
3:N:726:ILE:HD11	9:N:9650:HOH:O	1.97	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:369:ALA:HB2	9:D:9232:HOH:O	1.99	0.63
3:N:584:ASN:HD21	3:N:590:PRO:HB2	1.63	0.63
5:P:87:GLU:O	5:P:91:VAL:HG23	1.97	0.63
3:D:1258:ARG:CZ	3:D:1262:LEU:HD11	2.27	0.63
3:D:1272:ALA:CA	3:D:1326:THR:HB	2.28	0.63
5:P:366:ALA:HB3	5:P:367:MET:HE2	1.81	0.63
3:D:1399:ASP:HA	9:D:2120:HOH:O	1.98	0.63
5:F:314:PRO:HB3	9:F:515:HOH:O	1.98	0.63
2:C:14:PRO:HD2	9:C:1805:HOH:O	1.98	0.63
2:M:953:VAL:HG13	2:M:966:LEU:HD13	1.81	0.63
3:N:996:TRP:CE2	3:N:1056:PRO:HG2	2.33	0.63
1:B:56:VAL:HG13	1:B:142:VAL:HG12	1.80	0.63
3:D:956:ILE:HG12	3:D:1039:CYS:O	1.98	0.63
2:M:428:ARG:HD3	2:M:449:ILE:HG22	1.79	0.63
3:N:449:SER:HB2	9:N:9454:HOH:O	1.98	0.63
3:N:502:PHE:HZ	3:N:512:MET:HE2	1.63	0.63
2:M:151:ASP:HB2	2:M:157:ARG:O	1.98	0.63
2:M:528:GLU:HB3	9:M:1417:HOH:O	1.97	0.63
2:C:805:ARG:HG3	2:C:823:VAL:HG22	1.78	0.63
2:M:89:THR:O	2:M:91:GLN:HG3	1.99	0.63
1:K:78:ILE:O	1:K:82:LEU:HG	1.97	0.63
2:M:1068:GLU:OE1	5:P:345:ALA:HA	1.98	0.63
1:K:151:VAL:HG23	9:K:3798:HOH:O	1.97	0.63
1:A:83:LYS:HE2	1:A:167:VAL:HG12	1.80	0.63
3:N:462:GLN:HA	3:N:513:ILE:HD13	1.80	0.63
3:D:116:LEU:HB3	3:D:118:LEU:HD21	1.79	0.63
3:N:119:SER:OG	3:N:123:LEU:HD12	1.98	0.63
3:D:1491:THR:O	3:D:1495:ILE:HD13	1.99	0.63
1:K:120:VAL:HG13	9:K:7313:HOH:O	1.98	0.63
5:F:93:LEU:HG	5:F:190:ALA:CB	2.28	0.63
2:C:612:VAL:HG22	2:C:622:GLU:HA	1.81	0.63
3:D:529:GLN:OE1	3:D:533:GLY:HA2	1.99	0.63
3:D:528:VAL:O	3:D:535:PHE:HA	1.99	0.63
4:O:95:GLY:HA3	9:O:5632:HOH:O	1.99	0.63
3:N:1458:GLU:HG2	9:N:9361:HOH:O	1.98	0.63
3:N:198:ARG:HA	9:N:9071:HOH:O	1.97	0.63
5:F:227:PHE:HA	9:F:638:HOH:O	1.98	0.63
3:N:877:PRO:O	3:N:880:ILE:HG22	1.98	0.63
2:M:607:ASP:HB2	2:M:610:ARG:HG3	1.79	0.63
5:P:358:LEU:HD11	5:P:370:LYS:NZ	2.14	0.63
3:D:15:PRO:HA	3:D:18:ILE:HG12	1.80	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1139:ASP:HB2	9:D:2265:HOH:O	1.98	0.63
9:N:9114:HOH:O	5:P:140:ARG:HB3	1.96	0.63
3:N:807:ALA:HB2	3:N:833:GLU:OE1	1.98	0.63
2:C:565:GLN:HG2	2:C:995:MET:HE1	1.81	0.63
2:C:276:LYS:O	2:C:280:LYS:HB2	1.99	0.63
3:N:1267:ARG:HH12	3:N:1331:ASP:HB2	1.63	0.63
2:C:862:PRO:HG3	2:C:975:TYR:HE1	1.62	0.63
3:D:1130:ARG:NH1	3:D:1130:ARG:HB2	2.14	0.63
4:E:72:ARG:HD3	9:E:186:HOH:O	1.98	0.63
2:C:162:ILE:O	2:C:164:PRO:HD3	1.99	0.63
5:P:102:LEU:O	5:P:106:VAL:HG23	1.99	0.63
1:A:11:PHE:HD1	1:A:25:LEU:HD13	1.63	0.63
2:M:378:LEU:HG	2:M:382:ILE:HD11	1.80	0.63
1:L:216:GLU:HB2	9:L:4700:HOH:O	1.99	0.63
3:D:633:VAL:HB	3:D:740:PHE:CE1	2.34	0.63
2:M:1037:VAL:HG13	2:M:1049:LEU:HD11	1.80	0.63
2:C:627:ARG:HG3	2:C:628:PHE:H	1.64	0.63
3:D:478:LEU:HD22	3:D:1388:ARG:CZ	2.29	0.63
2:M:710:ILE:HD11	2:M:758:ARG:HE	1.63	0.63
3:N:1305:LEU:HD21	3:N:1326:THR:OG1	1.98	0.63
2:C:110:GLU:OE2	2:C:369:PRO:HG3	1.98	0.63
5:F:147:LEU:HG	9:F:845:HOH:O	1.99	0.63
2:M:1105:LYS:HG2	9:M:1472:HOH:O	1.97	0.63
2:M:532:MET:HG3	2:M:533:ASP:N	2.13	0.63
1:A:123:MET:O	1:A:125:PRO:HD3	1.99	0.63
3:D:462:GLN:HA	3:D:513:ILE:HD13	1.81	0.63
5:P:131:VAL:O	5:P:135:ILE:HG22	1.99	0.63
5:P:163:LEU:HB3	5:P:174:LEU:CG	2.29	0.63
2:M:1111:ILE:HG13	2:M:1112:PHE:H	1.63	0.63
2:C:1066:ALA:O	2:C:1070:ILE:HG13	1.99	0.63
3:N:536:ALA:HA	5:P:315:VAL:O	1.99	0.63
2:C:580:MET:O	2:C:902:ILE:HA	1.99	0.63
4:O:70:THR:HG21	4:O:72:ARG:NH2	2.13	0.63
2:C:588:VAL:HG21	2:C:664:GLY:O	1.99	0.63
3:N:185:VAL:CG1	3:N:191:LEU:HD21	2.29	0.62
2:C:937:ASP:O	2:C:941:VAL:HG23	1.99	0.62
4:O:48:MET:N	4:O:54:LEU:HB2	2.14	0.62
3:N:395:VAL:HG12	9:N:2032:HOH:O	1.99	0.62
4:O:51:LEU:HG	4:O:53:GLY:H	1.64	0.62
3:N:1122:LEU:O	3:N:1134:LEU:HD23	1.98	0.62
2:M:41:ASN:O	2:M:46:ALA:HB2	1.99	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:181:ASP:OD2	3:N:199:LEU:HB2	1.99	0.62
3:N:127:LEU:HD21	3:N:461:ILE:HD11	1.81	0.62
2:C:694:LEU:HD11	2:C:868:ASP:HB3	1.81	0.62
2:M:64:LEU:HD22	2:M:359:MET:HG3	1.81	0.62
3:N:383:GLY:HA2	9:N:2057:HOH:O	1.98	0.62
2:M:332:ARG:HH21	2:M:464:LEU:HD11	1.64	0.62
2:M:578:VAL:HG11	2:M:991:GLN:HB3	1.80	0.62
2:C:676:ILE:O	2:C:676:ILE:HG23	2.00	0.62
2:C:3:ILE:HG23	9:C:1258:HOH:O	1.99	0.62
3:N:52:PRO:HB2	9:N:9016:HOH:O	1.98	0.62
3:N:1314:LYS:HD3	3:N:1314:LYS:H	1.65	0.62
3:N:1390:LEU:HB3	9:N:2333:HOH:O	1.98	0.62
4:O:54:LEU:HG	4:O:58:PRO:CG	2.29	0.62
3:D:637:LEU:HD12	3:D:641:GLN:OE1	1.99	0.62
2:C:587:VAL:HA	9:C:1272:HOH:O	1.98	0.62
3:D:459:GLU:HB3	9:D:9210:HOH:O	1.98	0.62
2:M:889:HIS:HE1	3:N:951:ILE:HB	1.64	0.62
1:K:36:LEU:O	1:K:39:PRO:HD2	2.00	0.62
3:N:131:LYS:CG	3:N:572:ARG:HH21	2.12	0.62
2:M:254:VAL:HG21	9:M:1618:HOH:O	1.99	0.62
2:M:49:ARG:NH1	2:M:49:ARG:HB2	2.09	0.62
2:M:546:LEU:O	2:M:546:LEU:HD23	1.99	0.62
3:D:1209:LEU:HD13	3:D:1211:MET:HE1	1.81	0.62
3:N:1399:ASP:O	3:N:1403:LEU:HB2	1.99	0.62
2:M:447:ALA:HB1	9:M:1423:HOH:O	1.97	0.62
3:N:422:ALA:HB3	3:N:427:VAL:CG2	2.26	0.62
3:D:9:ARG:HA	3:D:1434:TRP:CH2	2.34	0.62
2:C:172:ILE:HG23	9:C:1676:HOH:O	1.99	0.62
2:M:603:VAL:HG21	2:M:643:VAL:CG1	2.30	0.62
3:D:477:LEU:HD23	9:D:9334:HOH:O	1.99	0.62
3:N:587:ARG:HD2	9:N:9886:HOH:O	2.00	0.62
5:P:415:THR:O	5:P:417:LYS:HG3	1.99	0.62
2:C:62:GLY:O	2:C:103:LYS:HG3	1.99	0.62
2:C:120:LEU:HD11	9:C:2187:HOH:O	1.98	0.62
3:D:565:ILE:HD11	5:F:189:GLU:OE1	2.00	0.62
3:D:441:ARG:O	3:D:443:VAL:HG23	1.99	0.62
2:C:141:HIS:HB3	2:C:418:LEU:HG	1.81	0.62
2:M:571:LEU:HG	2:M:700:TYR:HA	1.82	0.62
5:F:366:ALA:HB1	9:F:616:HOH:O	1.98	0.62
2:C:603:VAL:HG21	2:C:643:VAL:CG1	2.29	0.62
3:D:553:ARG:HH12	5:F:211:ASP:HA	1.63	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:557:ARG:CZ	2:C:879:ARG:HD3	2.30	0.62
1:L:86:VAL:HG12	1:L:124:ASN:ND2	2.14	0.62
3:D:1146:GLY:HA3	3:D:1207:TYR:HB2	1.80	0.62
5:P:244:ARG:HH11	5:P:244:ARG:HG3	1.64	0.62
3:D:1423:GLY:HA2	9:D:9071:HOH:O	1.97	0.62
3:N:1500:LYS:HA	9:N:9743:HOH:O	2.00	0.62
1:B:100:LEU:HD12	1:B:115:LEU:HD21	1.80	0.62
2:M:683:ASN:HA	2:M:687:ALA:HB3	1.81	0.62
1:B:153:ALA:HB3	9:B:402:HOH:O	1.99	0.62
3:N:192:ALA:HB3	9:N:9113:HOH:O	2.00	0.62
5:F:408:LEU:O	5:F:412:GLU:HG2	2.00	0.62
4:O:17:TYR:N	4:O:17:TYR:HD2	1.97	0.62
3:D:699:VAL:HG22	3:D:756:GLN:HE22	1.65	0.62
1:A:161:ARG:HB2	1:A:161:ARG:NH1	2.14	0.62
2:C:810:ASP:HB3	9:C:1294:HOH:O	2.00	0.62
2:M:64:LEU:HA	9:M:2181:HOH:O	2.00	0.62
3:N:404:GLU:HB3	3:N:414:ARG:HD2	1.82	0.62
2:M:910:LYS:HB3	2:M:912:PRO:HD2	1.82	0.62
3:N:538:SER:HB2	9:N:9315:HOH:O	1.99	0.62
2:M:196:LEU:O	2:M:200:LEU:HG	1.99	0.62
2:M:265:ARG:HG2	2:M:266:ARG:H	1.64	0.62
2:C:199:VAL:HG22	2:C:235:LEU:HG	1.81	0.62
1:B:38:ASN:OD1	2:C:979:THR:HA	1.99	0.62
5:F:117:SER:OG	5:F:124:PRO:HG3	2.00	0.62
1:L:70:GLY:HA2	9:L:5271:HOH:O	2.00	0.62
2:C:432:ARG:HH11	3:D:1048:PRO:HD3	1.63	0.62
2:M:44:ILE:HG22	9:M:1699:HOH:O	1.99	0.62
2:C:265:ARG:HB3	2:C:267:TYR:CD2	2.34	0.62
2:M:343:GLN:HG2	2:M:385:PHE:HB2	1.80	0.62
3:D:1290:LEU:HD22	3:D:1291:SER:H	1.64	0.62
2:C:427:VAL:HG23	9:C:1138:HOH:O	1.98	0.62
2:M:166:PRO:HD3	2:M:265:ARG:HB2	1.82	0.62
2:M:1090:LYS:HE3	3:N:90:MET:CG	2.30	0.62
3:D:131:LYS:HA	3:D:456:MET:HG3	1.81	0.62
1:L:208:LEU:HD23	9:L:4122:HOH:O	2.00	0.62
2:C:606:VAL:HG11	2:C:643:VAL:O	1.99	0.62
3:N:558:LEU:HB2	9:N:9146:HOH:O	2.00	0.62
3:N:1231:GLU:HB3	3:N:1232:PRO:HD3	1.81	0.62
2:M:916:GLU:HA	9:M:1386:HOH:O	1.99	0.62
1:L:19:GLU:HG3	1:L:201:THR:O	2.00	0.62
3:D:517:VAL:HG23	9:D:9427:HOH:O	1.98	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:510:ALA:HB3	9:C:2128:HOH:O	1.99	0.62
3:D:503:LEU:HB3	9:D:9451:HOH:O	2.00	0.62
2:M:182:VAL:HG12	2:M:193:LEU:HD13	1.82	0.62
2:M:286:SER:HB3	2:M:299:LYS:HE3	1.82	0.62
2:M:350:ARG:HD2	9:M:2100:HOH:O	2.00	0.62
2:M:976:ASP:CB	2:M:979:THR:HG22	2.30	0.62
5:P:321:ILE:HD11	5:P:329:TYR:HB2	1.81	0.62
2:C:42:VAL:HG12	2:C:43:GLY:H	1.65	0.62
2:M:874:LEU:CD1	3:N:783:ARG:HB2	2.30	0.62
3:N:1459:LEU:HD22	3:N:1465:ASN:HA	1.81	0.62
3:N:1063:GLU:HG3	3:N:1064:GLY:N	2.15	0.62
2:M:62:GLY:O	2:M:103:LYS:HG3	1.99	0.62
1:L:123:MET:C	1:L:125:PRO:HD3	2.19	0.62
2:C:954:THR:OG1	2:C:957:LYS:HG3	2.00	0.62
2:M:723:THR:HG21	9:M:1504:HOH:O	2.00	0.62
3:D:963:TYR:CD2	3:D:1002:LYS:HB3	2.35	0.62
2:M:578:VAL:HG13	2:M:671:ASN:CG	2.21	0.61
3:N:52:PRO:HG2	3:N:80:VAL:HG22	1.81	0.61
5:F:412:GLU:HG3	5:F:418:LEU:HD22	1.82	0.61
3:D:179:VAL:HG22	3:D:389:GLU:HG3	1.81	0.61
3:D:550:ARG:HD3	3:D:553:ARG:NH2	2.15	0.61
1:A:222:LEU:HD21	1:B:218:LEU:HD23	1.80	0.61
4:O:60:ALA:O	4:O:63:TRP:HB2	2.00	0.61
3:D:955:VAL:HG11	3:D:1015:TYR:HE2	1.65	0.61
2:M:966:LEU:HD11	2:M:986:PRO:HG2	1.82	0.61
2:M:998:TYR:HE2	2:M:1000:MET:HG2	1.65	0.61
2:C:707:ARG:HG3	2:C:826:TYR:CE1	2.35	0.61
1:A:117:VAL:HB	1:A:120:VAL:HG12	1.82	0.61
3:D:48:ARG:HB2	9:D:9499:HOH:O	2.00	0.61
3:D:675:ARG:O	3:D:678:GLU:HG2	2.00	0.61
3:D:1123:PHE:HE2	3:D:1184:GLN:HA	1.64	0.61
3:D:422:ALA:H	3:D:427:VAL:HG11	1.65	0.61
1:A:20:TYR:CE2	1:A:22:GLU:HG3	2.35	0.61
2:M:274:ARG:HB2	2:M:285:LEU:HD13	1.81	0.61
1:B:97:VAL:HG11	1:B:120:VAL:HG21	1.81	0.61
2:C:254:VAL:HG22	2:C:258:TYR:HE1	1.64	0.61
1:A:25:LEU:HG	9:A:350:HOH:O	2.00	0.61
1:L:109:VAL:HG23	9:L:5877:HOH:O	1.99	0.61
5:F:108:GLU:HG3	5:F:176:ILE:CG2	2.30	0.61
2:M:534:VAL:HB	2:M:538:GLN:NE2	2.14	0.61
2:M:358:ARG:HH22	2:M:374:ASN:CB	2.13	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:515:ALA:HB3	9:C:1200:HOH:O	2.00	0.61
3:D:1102:THR:HG22	3:D:1222:GLY:HA2	1.82	0.61
3:N:572:ARG:NH1	5:P:80:PRO:HD3	2.15	0.61
2:M:290:LEU:HB3	2:M:302:VAL:HG11	1.80	0.61
2:C:431:HIS:H	2:C:434:HIS:CE1	2.18	0.61
2:M:905:ILE:N	2:M:905:ILE:HD12	2.13	0.61
2:C:578:VAL:HA	2:C:900:ARG:HD2	1.81	0.61
4:O:17:TYR:CD2	4:O:17:TYR:N	2.68	0.61
3:D:136:ASP:CB	3:D:137:PRO:HD3	2.30	0.61
2:M:245:GLY:HA3	9:M:1762:HOH:O	2.00	0.61
2:M:777:ILE:HG22	9:M:2105:HOH:O	1.99	0.61
3:N:441:ARG:O	3:N:443:VAL:HG23	2.00	0.61
2:M:367:LEU:HD23	2:M:371:LYS:HZ2	1.65	0.61
3:D:928:ALA:HB2	9:D:9129:HOH:O	1.99	0.61
1:K:106:PRO:HD3	9:K:4436:HOH:O	1.99	0.61
2:C:437:ARG:NE	2:C:469:THR:HB	2.16	0.61
2:C:953:VAL:HB	2:C:962:GLN:HG2	1.82	0.61
3:N:536:ALA:HA	5:P:315:VAL:H	1.65	0.61
2:C:678:PRO:O	3:D:943:THR:HA	2.01	0.61
2:C:71:TYR:H	2:C:71:TYR:HD2	1.47	0.61
2:M:642:ARG:HG3	2:M:657:ASP:OD2	2.00	0.61
3:N:832:ARG:HA	9:N:2061:HOH:O	2.01	0.61
2:M:150:PRO:CA	2:M:158:TYR:HB3	2.27	0.61
5:F:120:THR:HG22	5:F:122:LEU:HD13	1.83	0.61
3:D:211:VAL:HG13	3:D:393:ILE:HG13	1.81	0.61
2:M:354:GLY:HA2	9:M:1526:HOH:O	1.98	0.61
3:D:477:LEU:HD13	3:D:492:ALA:O	2.01	0.61
2:M:583:LEU:O	2:M:587:VAL:HG23	2.00	0.61
3:D:404:GLU:HB3	3:D:414:ARG:CD	2.31	0.61
2:M:291:ALA:HB2	9:M:1720:HOH:O	2.00	0.61
1:A:20:TYR:HD2	1:A:21:GLY:H	1.48	0.61
3:D:800:LYS:HG2	9:D:9141:HOH:O	2.00	0.61
3:N:28:LYS:HB3	3:N:41:ARG:HD2	1.82	0.61
1:B:52:ALA:HB2	1:B:170:VAL:O	2.01	0.61
3:D:168:THR:OG1	3:D:393:ILE:HB	2.01	0.61
5:F:171:LYS:HE3	5:F:175:HIS:NE2	2.16	0.61
2:C:432:ARG:HH12	3:D:1047:LYS:CG	2.14	0.61
3:D:785:ILE:HG22	3:D:789:LEU:HD12	1.81	0.61
1:K:226:SER:HA	9:K:5223:HOH:O	2.00	0.61
2:C:722:ILE:HG22	2:C:820:ARG:HH12	1.65	0.61
3:D:975:GLU:O	3:D:979:GLU:HG3	2.00	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:584:ASN:HB2	3:D:602:SER:HB3	1.81	0.61
3:N:831:GLY:HA3	9:N:9026:HOH:O	2.00	0.61
2:C:1014:SER:OG	5:F:331:ASP:HA	2.01	0.61
4:E:26:ARG:HD2	4:E:29:GLN:OE1	2.01	0.61
2:C:750:LYS:HB2	3:D:681:ARG:NH2	2.16	0.61
1:A:158:ILE:HA	9:A:339:HOH:O	1.99	0.61
1:L:67:THR:HG22	1:L:74:ASP:OD1	2.00	0.61
2:C:716:LYS:HD3	9:C:1399:HOH:O	1.99	0.61
3:N:11:ALA:HB1	3:N:507:ASN:OD1	2.00	0.61
3:N:1264:GLU:OE2	3:N:1424:VAL:HG12	2.00	0.61
3:D:470:LEU:HD11	3:D:509:PRO:HG3	1.82	0.61
5:F:398:ARG:HG2	5:F:402:ASN:ND2	2.14	0.61
3:D:192:ALA:O	3:D:195:VAL:HG23	2.01	0.61
1:A:150:TYR:CE1	2:C:696:LYS:HA	2.36	0.61
3:N:1495:ILE:HG12	4:O:80:VAL:HG11	1.83	0.61
2:M:1009:SER:OG	3:N:655:PRO:HD3	2.00	0.61
3:D:466:LYS:HG2	9:D:9178:HOH:O	2.00	0.61
3:D:483:HIS:HB2	3:D:484:PRO:HD3	1.81	0.61
1:L:136:GLY:HA2	9:L:5776:HOH:O	2.00	0.61
3:D:1318:TYR:HD1	3:D:1319:VAL:N	1.97	0.61
3:D:860:LEU:HA	3:D:877:PRO:HB2	1.81	0.61
1:K:224:TYR:HB3	1:L:9:PRO:HB2	1.83	0.61
3:D:802:ALA:HB1	9:D:2302:HOH:O	2.01	0.61
3:D:1493:LYS:O	3:D:1497:GLU:HG2	2.01	0.61
2:C:579:VAL:HB	2:C:890:LEU:CD2	2.31	0.60
2:M:139:GLN:HE22	2:M:415:PRO:HG2	1.66	0.60
2:C:1008:ARG:HE	2:C:1029:GLY:N	1.98	0.60
1:K:7:LYS:HE2	9:K:4607:HOH:O	2.00	0.60
2:M:429:ASP:HB3	3:N:1079:LYS:NZ	2.16	0.60
3:N:835:SER:HA	9:N:9026:HOH:O	2.01	0.60
3:D:1341:PRO:HA	3:D:1344:VAL:HG23	1.83	0.60
1:B:62:LEU:H	1:B:62:LEU:HD12	1.65	0.60
2:M:260:LEU:HB2	2:M:291:ALA:HB1	1.81	0.60
2:C:535:SER:OG	2:C:538:GLN:HG2	2.01	0.60
3:D:399:ARG:HG3	9:D:9673:HOH:O	2.00	0.60
2:M:1018:GLN:NE2	2:M:1060:ILE:HD11	2.14	0.60
2:C:944:LEU:HD21	2:C:963:LEU:HD22	1.84	0.60
1:B:73:GLU:HB3	1:B:77:GLU:HG3	1.82	0.60
3:D:149:LYS:HB3	9:D:9547:HOH:O	2.00	0.60
3:N:834:THR:HG22	3:N:838:ARG:HD2	1.83	0.60
3:D:178:LEU:HG	3:D:200:ASP:H	1.66	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:P:90:GLN:HA	5:P:90:GLN:HE21	1.65	0.60
2:M:281:LEU:HD12	2:M:309:TYR:HB2	1.82	0.60
3:D:560:GLN:HG3	5:F:221:ILE:HG21	1.83	0.60
5:F:220:LEU:O	5:F:224:VAL:HG23	2.01	0.60
3:D:148:GLU:CB	3:D:151:GLN:HB2	2.30	0.60
4:O:45:ARG:HD2	4:O:47:LYS:HE3	1.84	0.60
3:D:906:GLN:HB3	3:D:911:LEU:CD1	2.30	0.60
3:N:1393:GLN:HB2	3:N:1398:TRP:HE1	1.66	0.60
3:D:1335:LEU:HD23	3:D:1344:VAL:HA	1.84	0.60
3:D:134:VAL:HG12	3:D:152:LEU:HB3	1.83	0.60
3:D:545:ARG:NH2	5:F:257:THR:HA	2.16	0.60
3:D:510:GLU:O	3:D:513:ILE:HD12	2.00	0.60
2:C:54:ILE:HB	9:C:1122:HOH:O	2.01	0.60
2:M:573:ARG:HG3	2:M:698:ASP:O	2.00	0.60
3:D:572:ARG:HH21	5:F:83:GLN:HE21	1.49	0.60
3:N:546:ARG:HG3	9:N:9308:HOH:O	2.00	0.60
1:A:86:VAL:HG12	1:A:124:ASN:HB2	1.83	0.60
2:M:503:LEU:HB3	9:M:2107:HOH:O	2.01	0.60
3:D:1130:ARG:HB2	3:D:1130:ARG:HH11	1.65	0.60
3:D:1336:LEU:HA	3:D:1344:VAL:HG22	1.82	0.60
1:K:62:LEU:H	1:K:62:LEU:HD12	1.66	0.60
2:C:9:ILE:HD11	9:C:1162:HOH:O	2.01	0.60
3:D:1287:GLU:HB2	9:D:9218:HOH:O	2.01	0.60
5:P:392:VAL:HA	9:P:5909:HOH:O	2.00	0.60
2:C:317:VAL:HG22	9:C:1726:HOH:O	2.01	0.60
3:N:60:CYS:HB3	9:N:2111:HOH:O	2.02	0.60
2:M:1035:MET:HG2	3:N:707:THR:O	2.02	0.60
3:D:1364:HIS:CE1	3:D:1366:LYS:HG3	2.37	0.60
3:N:427:VAL:CG2	3:N:435:VAL:HB	2.32	0.60
2:M:905:ILE:H	2:M:905:ILE:CD1	2.01	0.60
3:N:1277:ILE:CD1	3:N:1301:LYS:HB2	2.31	0.60
2:C:683:ASN:HA	2:C:687:ALA:HB3	1.82	0.60
3:N:420:VAL:HA	5:P:164:LYS:HD3	1.83	0.60
3:N:434:ARG:HB2	3:N:447:VAL:CG2	2.31	0.60
1:K:123:MET:O	1:K:125:PRO:HD3	2.01	0.60
3:N:814:ALA:HB2	9:N:9899:HOH:O	2.01	0.60
2:M:815:LEU:HB3	9:M:1820:HOH:O	2.01	0.60
3:D:1044:LEU:HD21	3:D:1056:PRO:HG3	1.82	0.60
3:D:1152:GLU:HB3	9:D:9312:HOH:O	2.01	0.60
2:C:181:VAL:HB	9:C:1469:HOH:O	2.01	0.60
3:D:1094:LEU:O	3:D:1098:LEU:HD13	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:175:ARG:HG2	9:K:4053:HOH:O	2.01	0.60
5:F:356:LYS:O	5:F:360:LYS:HG2	2.01	0.60
4:O:86:GLN:O	4:O:90:GLU:HG3	2.02	0.60
2:M:265:ARG:HB3	2:M:267:TYR:CD2	2.36	0.60
2:C:328:LEU:HD22	2:C:433:THR:HG22	1.83	0.60
3:N:524:LEU:C	3:N:526:PRO:HD3	2.22	0.60
4:E:60:ALA:O	4:E:63:TRP:HB2	2.02	0.60
3:D:493:ARG:NH2	3:D:1388:ARG:HB3	2.16	0.60
5:P:268:ILE:HA	5:P:271:LEU:HD12	1.83	0.60
2:M:13:ILE:HG22	9:M:1164:HOH:O	2.01	0.60
3:N:1156:LEU:HD21	3:N:1177:ALA:HA	1.82	0.60
2:M:157:ARG:CZ	2:M:157:ARG:HA	2.31	0.60
2:M:959:PRO:O	2:M:963:LEU:HD23	2.02	0.60
3:N:188:GLY:HA3	9:N:9221:HOH:O	2.00	0.60
2:M:127:PHE:HB3	9:M:1515:HOH:O	2.00	0.60
3:N:608:SER:HA	9:N:9404:HOH:O	2.02	0.60
5:P:94:LEU:HD22	5:P:97:GLU:HB2	1.81	0.60
3:D:127:LEU:CD1	3:D:461:ILE:HD11	2.28	0.60
2:C:983:ILE:HG21	2:C:987:ILE:HD11	1.84	0.60
3:N:57:GLU:HG3	3:N:64:LYS:HG2	1.83	0.60
1:K:156:HIS:CD2	1:K:158:ILE:HG12	2.35	0.60
2:M:721:ARG:NH2	2:M:785:VAL:HG21	2.16	0.60
2:C:254:VAL:O	2:C:257:VAL:HG23	2.01	0.60
3:N:783:ARG:HE	3:N:1029:ARG:HD2	1.67	0.60
1:A:208:LEU:HD13	9:B:442:HOH:O	2.01	0.60
3:N:1435:LEU:HD23	3:N:1464:GLU:HB2	1.82	0.60
2:M:56:GLU:HB3	9:M:1232:HOH:O	2.00	0.60
3:D:694:VAL:HG13	9:D:9037:HOH:O	2.02	0.60
3:N:1379:VAL:HG12	3:N:1419:PRO:HA	1.84	0.60
5:P:163:LEU:HB3	5:P:174:LEU:HG	1.84	0.60
2:M:423:ALA:HB2	6:N:8002:STD:H10	1.82	0.60
1:B:184:THR:HG23	1:B:192:LEU:HB3	1.83	0.60
3:D:1279:GLY:O	3:D:1318:TYR:HA	2.02	0.60
3:D:1147:ARG:O	3:D:1165:TYR:HA	2.02	0.60
2:M:555:ALA:HA	3:N:1070:TYR:OH	2.00	0.60
3:D:156:GLU:CD	3:D:156:GLU:H	2.05	0.60
5:P:151:LEU:HD22	5:P:153:PRO:HD2	1.83	0.60
1:B:2:LEU:HD12	1:B:3:ASP:N	2.17	0.60
4:O:25:LYS:HA	4:O:28:GLN:NE2	2.17	0.60
3:N:1124:GLN:N	3:N:1133:ARG:O	2.33	0.60
3:N:961:LYS:HG2	9:N:9759:HOH:O	2.02	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:913:GLU:O	2:C:916:GLU:HB3	2.02	0.60
3:N:1441:GLN:NE2	3:N:1442:ASN:HB2	2.16	0.60
2:M:1054:THR:HG22	2:M:1059:ASP:CB	2.29	0.60
3:N:1101:VAL:HG21	3:N:1424:VAL:CG2	2.27	0.60
3:D:524:LEU:C	3:D:526:PRO:HD3	2.22	0.60
5:F:132:ARG:HD3	5:F:181:GLU:CD	2.23	0.60
2:C:987:ILE:HD11	3:D:946:GLY:HA2	1.84	0.60
2:C:901:TYR:HA	9:C:1258:HOH:O	2.02	0.60
2:C:305:PRO:HA	2:C:308:ARG:HB3	1.84	0.60
5:P:321:ILE:HA	9:P:4225:HOH:O	2.01	0.60
2:C:599:GLU:HG3	9:C:1839:HOH:O	2.01	0.60
3:D:572:ARG:NH1	5:F:80:PRO:HD3	2.17	0.60
5:F:166:LEU:O	5:F:171:LYS:HB2	2.01	0.60
1:L:136:GLY:HA3	9:L:4988:HOH:O	2.00	0.60
3:N:1147:ARG:O	3:N:1166:LEU:HD23	2.02	0.60
1:K:158:ILE:HD11	9:K:4923:HOH:O	2.02	0.60
2:C:1033:GLY:HA2	3:D:619:LEU:O	2.01	0.60
2:M:1005:MET:HE3	3:N:648:MET:HB2	1.82	0.60
3:D:1109:GLU:OE1	3:D:1201:CYS:HB2	2.02	0.60
3:D:633:VAL:HG22	3:D:635:PRO:HD3	1.82	0.60
3:D:1122:LEU:HD11	3:D:1186:VAL:HG23	1.83	0.60
5:F:352:GLU:O	5:F:356:LYS:HG3	2.02	0.60
5:F:420:ASP:O	5:F:422:LEU:HD23	2.02	0.60
1:B:228:PRO:O	1:B:229:GLN:HG3	2.02	0.60
2:M:212:GLY:HA3	2:M:218:VAL:HG23	1.82	0.60
3:N:422:ALA:HB1	5:P:178:ARG:NH1	2.15	0.60
2:M:579:VAL:HG11	2:M:887:GLU:HG3	1.84	0.60
2:M:546:LEU:HD22	2:M:565:GLN:HE22	1.66	0.60
3:N:817:GLU:O	3:N:821:VAL:HG23	2.02	0.60
2:M:411:SER:HA	2:M:452:ILE:HG23	1.83	0.60
2:C:263:ASP:HA	9:C:1161:HOH:O	2.00	0.60
3:D:662:GLU:HB3	9:D:9278:HOH:O	2.01	0.60
3:N:1090:ASP:O	3:N:1093:TYR:HB3	2.01	0.60
5:F:305:GLU:O	5:F:309:LYS:HG3	2.01	0.60
3:N:491:LYS:HB2	9:N:2246:HOH:O	2.02	0.60
2:C:483:VAL:HG23	9:C:1834:HOH:O	2.02	0.60
3:N:899:LEU:HD12	3:N:900:ILE:HG23	1.83	0.60
2:C:470:PRO:HB2	2:C:534:VAL:HG21	1.83	0.59
5:F:213:ILE:HG22	5:F:217:ASN:ND2	2.17	0.59
2:C:300:ASP:HB2	9:C:1479:HOH:O	2.01	0.59
3:D:1209:LEU:HD21	4:E:16:LYS:NZ	2.17	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:396:VAL:HB	9:D:9961:HOH:O	1.99	0.59
3:D:756:GLN:HE21	3:D:760:ARG:HD2	1.67	0.59
3:D:1379:VAL:HG11	3:D:1395:LEU:HD23	1.84	0.59
2:M:707:ARG:HD2	2:M:824:ARG:HD3	1.83	0.59
2:M:16:PRO:HB3	2:M:460:ARG:HH22	1.67	0.59
2:M:114:PHE:HB2	9:M:1431:HOH:O	2.01	0.59
2:M:114:PHE:H	2:M:114:PHE:HD1	1.47	0.59
2:M:516:ARG:NH2	3:N:1068:LEU:HB2	2.17	0.59
5:P:151:LEU:HB2	5:P:155:THR:OG1	2.02	0.59
3:N:963:TYR:HD2	3:N:1002:LYS:HB3	1.67	0.59
3:N:628:ARG:HG2	3:N:744:GLN:NE2	2.17	0.59
2:M:113:VAL:HG12	9:M:1967:HOH:O	2.01	0.59
3:D:1260:ILE:HG21	9:D:9360:HOH:O	2.01	0.59
3:D:1118:ILE:HG21	3:D:1346:ARG:NH2	2.16	0.59
2:M:49:ARG:HB3	2:M:266:ARG:HH12	1.67	0.59
3:N:53:ILE:HG23	3:N:54:LYS:N	2.15	0.59
3:D:813:LEU:HD12	9:D:9578:HOH:O	2.02	0.59
9:N:9942:HOH:O	4:O:80:VAL:HG21	2.02	0.59
2:C:717:LEU:HD21	9:C:1599:HOH:O	2.02	0.59
2:M:1050:GLN:CG	2:M:1079:PRO:HG2	2.32	0.59
1:A:191:ASP:O	1:A:192:LEU:HD23	2.02	0.59
1:A:41:ARG:HD3	9:C:1607:HOH:O	2.03	0.59
3:D:116:LEU:O	3:D:118:LEU:HG	2.01	0.59
2:C:342:ASP:O	2:C:346:VAL:HG23	2.02	0.59
3:D:572:ARG:NH2	5:F:83:GLN:HE21	1.99	0.59
2:C:605:LYS:HE2	2:C:610:ARG:HH12	1.67	0.59
3:D:908:LYS:CB	3:D:1027:GLY:HA3	2.32	0.59
2:C:113:VAL:HG12	9:C:1672:HOH:O	2.01	0.59
1:K:9:PRO:HD2	1:L:224:TYR:CD1	2.37	0.59
3:N:1289:LYS:HB2	9:N:9234:HOH:O	2.02	0.59
2:C:742:VAL:HG11	9:C:1692:HOH:O	2.02	0.59
2:M:137:VAL:HG23	2:M:391:LEU:HG	1.84	0.59
5:F:151:LEU:HD11	9:F:834:HOH:O	2.02	0.59
2:M:498:GLN:O	2:M:501:THR:HG23	2.01	0.59
3:N:1149:LEU:HD12	3:N:1161:GLU:O	2.03	0.59
2:M:196:LEU:CD2	2:M:200:LEU:HD11	2.29	0.59
2:C:1016:ILE:HD11	5:F:330:GLY:CA	2.27	0.59
3:D:1236:LEU:HA	3:D:1359:GLN:NE2	2.17	0.59
2:C:244:PRO:HG2	2:C:246:ASP:OD2	2.02	0.59
4:O:48:MET:HB3	4:O:54:LEU:HB2	1.82	0.59
2:C:672:VAL:HG23	2:C:868:ASP:HB2	1.85	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1112:CYS:HB3	3:D:1201:CYS:SG	2.42	0.59
2:C:102:HIS:HB2	2:C:106:GLY:O	2.03	0.59
3:N:1466:VAL:HG23	3:N:1472:ILE:HD11	1.83	0.59
3:D:52:PRO:HG3	3:D:78:VAL:HG13	1.84	0.59
5:P:158:GLU:HB2	9:P:3694:HOH:O	2.03	0.59
2:C:261:ILE:HD11	9:C:2158:HOH:O	2.02	0.59
1:K:150:TYR:CE2	1:K:152:PRO:HG3	2.37	0.59
3:D:822:ALA:HA	9:D:9977:HOH:O	2.02	0.59
5:F:351:SER:O	5:F:355:GLU:HB2	2.02	0.59
5:P:222:ARG:HA	9:P:3558:HOH:O	2.01	0.59
3:N:211:VAL:HG22	3:N:393:ILE:HG23	1.84	0.59
3:N:637:LEU:HD11	3:N:642:CYS:N	2.17	0.59
3:D:1278:ASP:HB2	3:D:1318:TYR:HE1	1.68	0.59
2:M:882:LEU:HD11	3:N:1038:LEU:HD22	1.84	0.59
1:B:58:ILE:HB	1:B:61:VAL:HB	1.85	0.59
3:N:1464:GLU:HG2	9:N:9277:HOH:O	2.03	0.59
3:N:1425:THR:HG23	3:N:1426:LYS:N	2.18	0.59
5:P:365:GLU:OE1	5:P:400:ILE:HD12	2.03	0.59
2:M:257:VAL:HG11	9:M:1540:HOH:O	2.01	0.59
2:M:301:GLU:HG2	9:M:1719:HOH:O	2.03	0.59
3:N:178:LEU:HD11	3:N:203:ALA:HB2	1.83	0.59
2:M:1115:LEU:HD23	3:N:85:VAL:HG13	1.84	0.59
3:D:127:LEU:HD21	3:D:461:ILE:HD11	1.83	0.59
3:D:1448:THR:O	3:D:1452:ILE:HD13	2.03	0.59
3:N:566:ILE:HG12	5:P:217:ASN:HD22	1.68	0.59
3:N:1036:ARG:HH21	3:N:1043:GLY:H	1.49	0.59
2:C:1043:TYR:CE2	3:D:763:MET:HA	2.38	0.59
2:M:19:THR:HG22	2:M:22:GLN:HB2	1.85	0.59
3:D:1381:VAL:HB	3:D:1389:LEU:O	2.02	0.59
2:C:690:ILE:HG12	2:C:694:LEU:HD12	1.83	0.59
3:N:1495:ILE:HG23	9:N:9045:HOH:O	2.02	0.59
3:N:1102:THR:HG22	3:N:1222:GLY:CA	2.33	0.59
3:D:67:ARG:HA	9:D:9049:HOH:O	2.02	0.59
2:C:91:GLN:HG2	2:C:119:PRO:HG3	1.83	0.59
3:N:1267:ARG:HH11	3:N:1267:ARG:CB	2.16	0.59
3:D:820:GLU:HB2	3:D:836:VAL:HG11	1.85	0.59
2:M:195:LEU:HD12	2:M:234:ALA:HB1	1.84	0.59
2:C:640:ARG:NH1	2:C:642:ARG:HH22	2.00	0.59
1:A:36:LEU:O	1:A:39:PRO:HD2	2.03	0.59
3:D:1359:GLN:HB3	9:D:9147:HOH:O	2.02	0.59
5:F:321:ILE:HD11	5:F:329:TYR:HB2	1.85	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:49:ARG:NH1	2:C:49:ARG:HB2	2.12	0.59
2:C:959:PRO:O	2:C:963:LEU:HD23	2.03	0.59
1:A:206:THR:HG22	1:A:209:GLU:CG	2.32	0.59
3:D:530:VAL:N	3:D:534:ARG:O	2.31	0.59
3:N:1462:LEU:HD22	3:N:1472:ILE:CG2	2.32	0.59
1:A:145:ASP:HB3	9:A:453:HOH:O	2.01	0.59
3:D:663:GLU:HA	9:D:9822:HOH:O	2.02	0.59
2:M:1115:LEU:HD12	2:M:1115:LEU:N	2.18	0.59
2:M:140:ILE:HG23	2:M:333:ILE:HG13	1.85	0.59
3:D:537:THR:O	5:F:317:LEU:HB2	2.03	0.59
3:N:127:LEU:HD12	3:N:128:TYR:N	2.18	0.59
2:C:1067:TYR:CE1	2:C:1071:ILE:HD11	2.37	0.59
2:C:643:VAL:HB	9:C:1217:HOH:O	2.03	0.59
3:D:1063:GLU:HB3	9:D:9027:HOH:O	2.03	0.59
1:A:178:ALA:HB2	2:C:864:GLY:H	1.68	0.59
3:D:534:ARG:HG3	9:D:9100:HOH:O	2.03	0.59
3:N:440:VAL:HG13	9:N:9604:HOH:O	2.01	0.59
2:M:151:ASP:HB3	9:M:1442:HOH:O	2.03	0.59
1:A:9:PRO:HD2	1:B:224:TYR:CE1	2.38	0.59
5:F:138:SER:O	5:F:141:VAL:HG12	2.02	0.59
3:N:574:LEU:O	3:N:578:VAL:HG23	2.02	0.59
2:C:222:MET:HB3	9:C:1348:HOH:O	2.01	0.59
3:N:548:ILE:HG23	9:N:9055:HOH:O	2.01	0.59
3:N:62:LYS:NZ	3:N:75:ARG:HD2	2.18	0.59
3:N:423:ASP:OD2	5:P:174:LEU:HD22	2.03	0.59
2:C:244:PRO:CD	2:C:245:GLY:H	2.14	0.59
2:M:367:LEU:HB3	2:M:371:LYS:HG2	1.83	0.59
3:N:764:LEU:HD23	3:N:767:HIS:NE2	2.17	0.59
2:M:1104:GLU:HA	3:N:6:ARG:NH1	2.17	0.59
3:D:887:ALA:HB1	3:D:893:GLU:HG3	1.84	0.59
1:L:5:LYS:O	1:L:8:ALA:HB2	2.02	0.59
2:M:208:ALA:O	2:M:218:VAL:HG21	2.02	0.59
2:M:305:PRO:HG3	2:M:308:ARG:HH21	1.67	0.59
2:C:572:ILE:HG23	2:C:703:ILE:HD13	1.85	0.59
3:N:55:ASP:O	3:N:82:LYS:HA	2.03	0.59
2:M:537:LYS:HG3	2:M:905:ILE:HD11	1.85	0.59
2:C:1059:ASP:O	2:C:1063:ARG:HG2	2.03	0.59
2:M:5:ARG:HB3	2:M:902:ILE:HB	1.85	0.59
3:D:183:GLU:O	3:D:186:VAL:HG12	2.03	0.59
1:K:88:ARG:NE	1:K:121:GLU:HG2	2.15	0.59
2:C:626:ARG:H	2:C:639:GLN:HE21	1.49	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:187:ASN:HB2	9:M:1971:HOH:O	2.03	0.59
3:D:536:ALA:HA	9:D:9452:HOH:O	2.03	0.59
3:N:1381:VAL:HG23	3:N:1391:GLU:O	2.03	0.59
1:A:207:PRO:HB2	9:A:444:HOH:O	2.03	0.59
3:D:369:ALA:HB3	9:D:9915:HOH:O	2.01	0.59
5:P:220:LEU:O	5:P:224:VAL:HG23	2.02	0.59
3:D:1213:ARG:HB2	3:D:1214:PRO:CD	2.33	0.58
2:M:439:CYS:HB3	2:M:442:GLU:HB2	1.85	0.58
3:N:481:MET:SD	3:N:1388:ARG:HG2	2.43	0.58
3:N:948:THR:O	3:N:1019:PRO:HG2	2.03	0.58
1:L:103:ALA:HB1	1:L:107:LYS:CE	2.32	0.58
2:C:640:ARG:HH11	2:C:642:ARG:HH22	1.51	0.58
3:N:529:GLN:HA	9:N:9510:HOH:O	2.02	0.58
5:P:82:ARG:HG2	5:P:86:HIS:CD2	2.38	0.58
3:N:1481:VAL:HG13	4:O:18:ARG:NE	2.10	0.58
2:C:433:THR:HG21	2:C:488:ALA:CB	2.33	0.58
3:N:26:VAL:HG11	3:N:44:LEU:HD23	1.85	0.58
2:M:1043:TYR:HE1	3:N:710:ARG:O	1.86	0.58
3:D:133:ILE:HG23	3:D:456:MET:SD	2.43	0.58
3:N:681:ARG:HH11	3:N:681:ARG:HB3	1.68	0.58
1:L:156:HIS:CE1	1:L:166:PRO:HB3	2.38	0.58
2:C:838:LYS:HG3	2:C:997:LEU:HB2	1.85	0.58
9:B:433:HOH:O	3:D:813:LEU:HD21	2.03	0.58
3:N:546:ARG:HA	9:N:9149:HOH:O	2.02	0.58
1:A:53:VAL:HG11	1:A:82:LEU:HD13	1.84	0.58
3:D:860:LEU:HD23	3:D:877:PRO:HB2	1.85	0.58
3:D:996:TRP:CD2	3:D:1056:PRO:HG2	2.39	0.58
2:C:820:ARG:HB2	9:C:1318:HOH:O	2.02	0.58
1:K:20:TYR:HD2	1:K:21:GLY:N	2.01	0.58
3:D:235:ALA:HB3	9:D:2396:HOH:O	2.03	0.58
3:D:624:ASP:HB3	3:D:625:TYR:CD1	2.38	0.58
1:K:101:LEU:HG	1:K:114:PHE:HA	1.84	0.58
1:K:100:LEU:HD12	9:K:4767:HOH:O	2.02	0.58
2:C:976:ASP:CB	2:C:979:THR:HG22	2.33	0.58
3:N:875:THR:HG22	3:N:879:ARG:NE	2.17	0.58
2:M:862:PRO:HA	2:M:975:TYR:HE1	1.67	0.58
3:N:809:PRO:HB2	3:N:812:ALA:HB2	1.85	0.58
3:N:783:ARG:HE	3:N:1029:ARG:CD	2.16	0.58
2:M:13:ILE:HB	9:M:1979:HOH:O	2.02	0.58
4:E:48:MET:CB	4:E:54:LEU:HB2	2.33	0.58
9:D:2009:HOH:O	5:F:147:LEU:HD11	2.02	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:150:TYR:HE2	1:K:152:PRO:HG3	1.66	0.58
3:D:17:LYS:HD3	9:D:9746:HOH:O	2.03	0.58
9:C:1615:HOH:O	5:F:354:LEU:HD21	2.03	0.58
2:M:716:LYS:HB2	9:M:1462:HOH:O	2.01	0.58
2:M:191:PHE:HB3	2:M:241:LEU:HD13	1.84	0.58
1:K:100:LEU:HB3	9:K:3995:HOH:O	2.01	0.58
2:C:235:LEU:HA	9:C:1222:HOH:O	2.03	0.58
2:M:141:HIS:HB3	2:M:418:LEU:HG	1.84	0.58
3:N:860:LEU:HA	3:N:877:PRO:HB2	1.84	0.58
3:N:119:SER:N	3:N:123:LEU:HB2	2.17	0.58
3:D:598:ARG:HH11	3:D:598:ARG:HG2	1.67	0.58
1:B:212:ASN:O	1:B:215:VAL:HG22	2.03	0.58
3:N:1441:GLN:CD	3:N:1442:ASN:HB2	2.23	0.58
2:C:209:ARG:O	2:C:213:ALA:HB2	2.03	0.58
2:M:1115:LEU:HD12	2:M:1115:LEU:H	1.69	0.58
1:A:191:ASP:HA	9:A:327:HOH:O	2.03	0.58
5:P:181:GLU:O	5:P:184:ARG:HB3	2.03	0.58
3:D:804:LEU:HB2	3:D:830:ALA:O	2.04	0.58
3:D:658:LEU:HD11	3:D:674:ARG:NH1	2.19	0.58
2:C:332:ARG:HH22	2:C:338:GLU:CD	2.06	0.58
2:C:512:ARG:HB2	9:C:1379:HOH:O	2.04	0.58
4:O:54:LEU:HA	4:O:58:PRO:HG2	1.86	0.58
2:C:137:VAL:HG22	2:C:391:LEU:O	2.02	0.58
2:C:440:PRO:HB2	3:D:1074:SER:HB3	1.84	0.58
3:D:699:VAL:N	3:D:756:GLN:HE22	2.00	0.58
3:D:813:LEU:O	3:D:817:GLU:HB2	2.03	0.58
2:M:1006:HIS:O	3:N:627:GLY:HA2	2.04	0.58
2:M:367:LEU:O	2:M:372:LEU:HD13	2.03	0.58
1:L:110:LYS:HD2	1:L:112:ARG:NH1	2.18	0.58
5:F:403:LYS:HB3	9:F:714:HOH:O	2.03	0.58
2:M:1101:THR:HB	3:N:5:VAL:CG1	2.32	0.58
2:M:382:ILE:HD12	9:M:1347:HOH:O	2.03	0.58
2:M:294:GLU:HG3	9:M:1411:HOH:O	2.03	0.58
5:P:342:VAL:HG21	9:P:6462:HOH:O	2.01	0.58
3:N:1106:VAL:HG21	3:N:1474:ALA:HB2	1.85	0.58
5:F:250:ALA:HA	9:F:629:HOH:O	2.04	0.58
3:N:1342:GLU:CD	3:N:1342:GLU:H	2.07	0.58
3:D:965:GLU:HA	3:D:968:ASP:HB2	1.85	0.58
3:N:1101:VAL:HG13	3:N:1428:ALA:HB2	1.85	0.58
3:D:542:ASP:O	3:D:546:ARG:HG2	2.04	0.58
3:N:1220:ALA:HB1	3:N:1223:ILE:HD13	1.86	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:260:LEU:HB2	2:C:291:ALA:HB1	1.86	0.58
5:P:271:LEU:HD23	5:P:291:ILE:HD11	1.86	0.58
3:D:963:TYR:CE2	3:D:1002:LYS:HB3	2.39	0.58
4:O:42:PRO:HG3	9:O:4652:HOH:O	2.03	0.58
2:C:129:ILE:HD13	2:C:134:ARG:HB2	1.85	0.58
1:B:109:VAL:HG21	1:B:138:LEU:HD21	1.85	0.58
2:C:112:GLU:HG3	9:C:1263:HOH:O	2.03	0.58
9:C:1403:HOH:O	5:F:373:LYS:HB3	2.03	0.58
2:C:1043:TYR:HE1	3:D:710:ARG:O	1.86	0.58
3:D:209:ARG:CZ	3:D:397:LYS:HG3	2.33	0.58
1:L:91:ASN:H	1:L:94:LEU:HD12	1.69	0.58
3:D:562:ALA:HB1	3:D:567:ILE:CD1	2.32	0.58
2:M:478:VAL:HG13	2:M:506:ASN:HB3	1.85	0.58
3:D:178:LEU:HD21	9:D:9048:HOH:O	2.03	0.58
3:D:965:GLU:O	3:D:968:ASP:HB2	2.04	0.58
1:L:56:VAL:HG13	1:L:142:VAL:HG12	1.85	0.58
2:C:441:VAL:HG13	2:C:559:LEU:HA	1.84	0.58
2:M:21:ILE:H	2:M:21:ILE:HD12	1.68	0.58
3:D:1003:VAL:O	3:D:1007:VAL:HG13	2.03	0.58
2:M:510:ALA:HB3	2:M:513:VAL:HG23	1.85	0.58
3:N:971:LEU:HG	3:N:975:GLU:OE2	2.01	0.58
3:D:108:VAL:HB	3:D:109:PRO:HD3	1.84	0.58
3:D:204:LEU:HD12	9:D:2356:HOH:O	2.04	0.58
2:M:352:ALA:HA	2:M:355:VAL:HG12	1.86	0.58
5:P:80:PRO:HA	5:P:83:GLN:HB2	1.86	0.58
2:M:1054:THR:HG23	9:M:1191:HOH:O	2.03	0.58
3:N:119:SER:H	3:N:123:LEU:HD13	1.69	0.58
2:C:598:GLU:O	2:C:651:LYS:HG3	2.04	0.58
2:C:874:LEU:HD13	3:D:783:ARG:HB2	1.85	0.58
2:C:78:PHE:HB2	2:C:88:LEU:HD21	1.86	0.58
3:D:6:ARG:NH1	3:D:6:ARG:HB2	2.19	0.58
2:M:134:ARG:NH1	2:M:387:SER:HA	2.19	0.58
2:M:379:GLU:HA	9:M:1347:HOH:O	2.03	0.58
3:N:890:VAL:HG12	3:N:926:LYS:HG2	1.86	0.58
2:C:238:LEU:HB2	9:C:1222:HOH:O	2.02	0.58
5:F:247:ILE:HG12	9:F:482:HOH:O	2.04	0.58
2:C:479:VAL:HG22	2:C:508:ILE:HD13	1.84	0.58
3:N:52:PRO:HB2	3:N:80:VAL:HG13	1.85	0.58
5:P:317:LEU:O	5:P:329:TYR:HB3	2.04	0.58
2:M:1018:GLN:HG3	2:M:1060:ILE:HD13	1.84	0.58
5:F:79:ASP:HB3	5:F:80:PRO:CD	2.34	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:555:LYS:HB3	9:P:6985:HOH:O	2.04	0.58
5:F:264:MET:HB3	9:F:624:HOH:O	2.03	0.58
2:M:882:LEU:HD12	3:N:1061:PHE:HB3	1.86	0.58
3:D:850:LEU:HD12	3:D:850:LEU:H	1.69	0.58
1:L:221:HIS:HA	1:L:224:TYR:HD2	1.68	0.58
1:B:132:LEU:HG	1:B:136:GLY:HA3	1.84	0.58
2:M:1012:PRO:HB3	9:M:1930:HOH:O	2.03	0.58
2:M:484:VAL:HA	9:M:1294:HOH:O	2.04	0.58
5:P:205:ARG:HG3	5:P:251:ILE:HD13	1.86	0.58
3:N:120:ALA:HB1	9:N:9285:HOH:O	2.03	0.58
2:M:233:GLU:HG2	9:M:1408:HOH:O	2.04	0.58
1:A:101:LEU:HG	1:A:114:PHE:HA	1.86	0.58
3:D:924:MET:O	3:D:927:THR:HB	2.04	0.58
3:N:149:LYS:HA	9:N:9092:HOH:O	2.03	0.58
5:F:230:LYS:HB2	9:F:771:HOH:O	2.03	0.58
1:B:83:LYS:HE3	1:B:167:VAL:HG12	1.86	0.58
3:N:1350:GLU:O	3:N:1354:LYS:HG2	2.03	0.58
3:D:12:LEU:HD13	3:D:511:TRP:HB2	1.84	0.58
3:N:97:THR:HG21	3:N:571:LYS:HD3	1.85	0.58
3:D:89:ARG:O	3:D:521:PRO:HG3	2.04	0.58
1:L:57:TYR:CE1	1:L:163:ASN:HB2	2.27	0.58
4:O:16:LYS:HD3	4:O:17:TYR:HE2	1.69	0.58
2:M:227:PHE:HD2	2:M:230:ARG:HH21	1.51	0.58
1:B:218:LEU:O	1:B:222:LEU:HG	2.03	0.58
2:C:208:ALA:O	2:C:218:VAL:HG21	2.04	0.58
2:M:889:HIS:CE1	3:N:951:ILE:HB	2.38	0.58
2:M:108:ILE:HD12	2:M:108:ILE:H	1.68	0.58
1:B:5:LYS:O	1:B:8:ALA:HB2	2.04	0.58
3:D:193:PRO:HD3	9:D:9827:HOH:O	2.03	0.58
1:K:186:LEU:HB3	1:K:192:LEU:HD11	1.86	0.58
9:K:4223:HOH:O	1:L:43:ILE:HD11	2.03	0.58
1:A:189:ARG:HB2	9:A:371:HOH:O	2.04	0.58
3:N:131:LYS:HD2	5:P:83:GLN:HE21	1.68	0.57
2:C:397:GLU:HG2	2:C:403:SER:HB3	1.84	0.57
2:C:503:LEU:HD13	2:C:507:ARG:O	2.04	0.57
3:D:1472:ILE:HG22	3:D:1474:ALA:H	1.69	0.57
5:P:120:THR:HG21	5:P:122:LEU:HD22	1.86	0.57
5:P:166:LEU:O	5:P:171:LYS:HB2	2.04	0.57
2:C:1031:ARG:HD3	3:D:619:LEU:CD2	2.34	0.57
3:N:1493:LYS:HA	3:N:1496:GLU:OE2	2.04	0.57
3:D:877:PRO:O	3:D:880:ILE:HG22	2.03	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:209:GLU:O	1:K:213:GLN:HG3	2.03	0.57
3:D:1307:LYS:CD	3:D:1307:LYS:H	2.17	0.57
3:D:527:MET:HB3	9:D:9990:HOH:O	2.04	0.57
3:N:106:LYS:HE2	9:N:9886:HOH:O	2.04	0.57
3:D:834:THR:HB	3:D:838:ARG:HB3	1.85	0.57
2:M:594:ALA:HB1	2:M:654:LEU:HD12	1.86	0.57
3:D:28:LYS:HG3	3:D:29:PRO:HD2	1.84	0.57
1:B:132:LEU:HD13	1:B:138:LEU:HD13	1.86	0.57
3:D:438:ASP:HB2	9:D:9161:HOH:O	2.04	0.57
3:N:685:ASP:HB3	9:N:9661:HOH:O	2.03	0.57
1:B:16:GLN:HB3	9:B:447:HOH:O	2.04	0.57
2:M:629:TYR:HB2	2:M:637:LEU:HG	1.86	0.57
3:N:424:GLY:HA2	3:N:436:GLU:HA	1.86	0.57
3:D:87:ARG:CB	3:D:523:ASP:HB2	2.34	0.57
2:C:352:ALA:HA	2:C:355:VAL:HG12	1.87	0.57
2:M:926:PHE:O	2:M:930:LYS:HG3	2.04	0.57
3:N:710:ARG:HH22	3:N:1210:SER:CB	2.17	0.57
1:K:88:ARG:HD2	1:K:88:ARG:O	2.04	0.57
3:D:1047:LYS:NZ	3:D:1053:PHE:HA	2.19	0.57
2:C:554:ASP:OD2	2:C:556:ASN:HB3	2.04	0.57
3:N:911:LEU:O	3:N:915:VAL:HG23	2.04	0.57
3:D:1314:LYS:HZ3	3:D:1317:ASP:H	1.50	0.57
3:N:1462:LEU:HD22	3:N:1472:ILE:HG23	1.86	0.57
5:F:282:LEU:HD11	5:F:286:PRO:HG3	1.86	0.57
2:M:51:THR:OG1	2:M:348:LEU:HD23	2.03	0.57
4:O:23:VAL:HG21	4:O:65:MET:HG2	1.85	0.57
2:C:139:GLN:OE1	2:C:414:GLY:HA3	2.04	0.57
2:M:648:ARG:HG2	9:M:2052:HOH:O	2.03	0.57
3:N:131:LYS:HD2	5:P:83:GLN:NE2	2.19	0.57
3:N:197:SER:HA	9:N:9482:HOH:O	2.04	0.57
2:M:341:THR:O	2:M:345:ARG:HG2	2.04	0.57
3:N:642:CYS:SG	3:N:716:PHE:HB2	2.44	0.57
3:D:1262:LEU:HD23	3:D:1352:ILE:HG13	1.86	0.57
3:D:525:ARG:HB2	3:D:541:ASN:ND2	2.20	0.57
3:D:560:GLN:HB2	9:F:762:HOH:O	2.04	0.57
2:C:355:VAL:CG2	2:C:372:LEU:HG	2.34	0.57
2:C:1060:ILE:HG23	2:C:1061:GLU:N	2.20	0.57
2:M:861:LEU:HD21	2:M:925:TYR:CE2	2.39	0.57
3:N:704:ARG:CG	3:N:736:PHE:HB3	2.35	0.57
5:P:409:LYS:HG3	5:P:410:TYR:N	2.19	0.57
2:C:274:ARG:HG3	2:C:285:LEU:HD22	1.85	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:257:VAL:HG12	2:C:263:ASP:OD1	2.04	0.57
1:A:127:LEU:HD12	1:A:128:HIS:N	2.18	0.57
2:C:666:LEU:HD23	2:C:668:LEU:HD11	1.84	0.57
2:M:881:ASN:H	2:M:881:ASN:HD22	1.51	0.57
1:L:176:ARG:NH2	3:N:884:ARG:HD3	2.19	0.57
2:M:611:ILE:HD11	2:M:641:PRO:HB3	1.85	0.57
3:D:1148:VAL:HG13	3:D:1163:GLY:O	2.05	0.57
2:M:722:ILE:CD1	2:M:823:VAL:HG21	2.33	0.57
5:F:198:ILE:HA	9:F:560:HOH:O	2.04	0.57
3:D:871:LYS:HD3	3:D:873:LEU:HD21	1.85	0.57
1:B:205:VAL:HG11	9:B:348:HOH:O	2.03	0.57
2:M:1114:GLY:N	2:M:1115:LEU:HD12	2.07	0.57
3:D:10:ILE:HG13	3:D:1434:TRP:CZ2	2.40	0.57
3:N:141:ILE:HB	9:N:9457:HOH:O	2.04	0.57
3:D:191:LEU:HD22	3:D:195:VAL:HG21	1.87	0.57
3:D:131:LYS:HE3	5:F:83:GLN:HE22	1.69	0.57
4:O:41:GLU:O	4:O:45:ARG:HG2	2.05	0.57
3:N:800:LYS:HG2	9:N:9126:HOH:O	2.04	0.57
1:A:59:GLU:CD	1:A:139:ASN:HD21	2.07	0.57
2:C:588:VAL:HG12	2:C:666:LEU:HD12	1.86	0.57
2:C:833:LEU:HD11	2:C:849:VAL:HG21	1.86	0.57
2:C:418:LEU:H	2:C:418:LEU:HD22	1.69	0.57
3:N:404:GLU:HB3	3:N:414:ARG:CD	2.34	0.57
2:M:999:HIS:HB3	2:M:1003:ASP:OD1	2.05	0.57
2:C:1073:GLY:HA2	9:C:1177:HOH:O	2.04	0.57
1:L:16:GLN:HG3	9:L:6332:HOH:O	2.05	0.57
2:M:159:ILE:HD11	9:M:1995:HOH:O	2.03	0.57
3:N:712:GLY:C	3:N:713:ILE:HD12	2.24	0.57
3:N:183:GLU:O	3:N:186:VAL:HG12	2.04	0.57
3:N:1033:GLN:NE2	3:N:1036:ARG:HH11	1.90	0.57
3:N:28:LYS:HG3	3:N:29:PRO:HD2	1.86	0.57
2:C:1091:GLU:HG2	3:D:606:ILE:HG21	1.84	0.57
2:C:338:GLU:O	2:C:341:THR:HG22	2.04	0.57
3:D:1394:VAL:HB	3:D:1397:LYS:HD2	1.86	0.57
3:D:1147:ARG:HB3	3:D:1188:VAL:CG2	2.34	0.57
3:D:809:PRO:HB2	3:D:812:ALA:HB2	1.86	0.57
3:D:1095:THR:O	3:D:1099:VAL:HG23	2.04	0.57
3:D:476:GLU:HG2	9:D:9334:HOH:O	2.05	0.57
2:M:1085:PHE:CE2	3:N:1468:LEU:HG	2.39	0.57
3:N:455:ARG:NH1	3:N:463:GLN:HG3	2.19	0.57
5:P:290:GLU:HG3	9:P:5633:HOH:O	2.03	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:1051:GLU:HG3	2:M:1055:LEU:HD12	1.87	0.57
2:M:864:GLY:HA2	9:M:1403:HOH:O	2.04	0.57
5:F:105:LYS:HE3	9:F:642:HOH:O	2.05	0.57
2:C:924:VAL:HG23	9:C:1396:HOH:O	2.03	0.57
2:M:218:VAL:O	2:M:221:LEU:HG	2.05	0.57
3:N:1262:LEU:CD2	3:N:1351:GLU:HG3	2.28	0.57
2:C:313:LEU:HD13	2:C:321:GLU:O	2.03	0.57
3:D:1209:LEU:HD21	4:E:16:LYS:HZ3	1.70	0.57
2:C:332:ARG:HE	2:C:464:LEU:CD1	2.17	0.57
2:C:342:ASP:HA	2:C:345:ARG:HG2	1.86	0.57
2:M:1018:GLN:NE2	2:M:1063:ARG:HH22	2.03	0.57
3:N:737:ASN:HA	9:N:9235:HOH:O	2.04	0.57
3:D:1120:VAL:HB	3:D:1144:LEU:HD21	1.85	0.57
3:D:1061:PHE:HE1	3:D:1065:LEU:HD23	1.68	0.57
2:C:524:VAL:HB	9:C:1200:HOH:O	2.02	0.57
2:M:1085:PHE:HD2	3:N:1468:LEU:HA	1.69	0.57
5:F:403:LYS:HD2	9:F:436:HOH:O	2.05	0.57
2:C:89:THR:HA	2:C:129:ILE:O	2.05	0.57
2:M:233:GLU:OE1	2:M:237:ARG:HD3	2.04	0.57
4:O:69:LEU:O	4:O:69:LEU:HD23	2.03	0.57
2:C:732:ALA:HB3	9:C:1156:HOH:O	2.03	0.57
2:C:935:GLY:HA2	9:C:1635:HOH:O	2.04	0.57
1:K:127:LEU:HD12	1:K:128:HIS:N	2.20	0.57
2:C:706:GLU:HB3	2:C:708:TYR:CE1	2.39	0.57
3:N:760:ARG:HH21	4:O:3:GLU:CD	2.06	0.57
3:N:564:GLU:HA	3:N:567:ILE:HD12	1.87	0.57
3:D:525:ARG:HA	3:D:538:SER:HB3	1.87	0.57
1:K:219:ARG:HH22	1:L:223:THR:CG2	2.11	0.57
3:N:1111:ASP:HB2	3:N:1203:LYS:CG	2.32	0.57
2:C:1012:PRO:HG2	9:C:2108:HOH:O	2.05	0.57
5:P:361:LEU:HD23	5:P:362:SER:H	1.69	0.57
2:M:861:LEU:HD23	2:M:862:PRO:HD2	1.87	0.57
1:B:190:THR:HG22	9:B:367:HOH:O	2.04	0.57
4:E:26:ARG:HE	4:E:30:LEU:HD11	1.68	0.57
1:K:102:LYS:HE2	1:K:139:ASN:CG	2.25	0.57
2:C:583:LEU:O	2:C:587:VAL:HG23	2.04	0.57
2:C:580:MET:HB3	2:C:584:GLU:OE2	2.05	0.57
2:C:264:PRO:HB3	2:C:289:THR:CB	2.34	0.57
3:N:443:VAL:HG12	3:N:445:ARG:HD2	1.87	0.57
2:M:79:PRO:HG2	2:M:82:GLU:HB2	1.87	0.57
3:N:486:ARG:HG2	9:N:2235:HOH:O	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:80:LEU:HG	3:N:844:ALA:HB2	1.87	0.57
2:M:1013:TYR:HE1	2:M:1020:PRO:HG3	1.69	0.57
4:O:72:ARG:HA	9:O:5797:HOH:O	2.05	0.57
1:B:30:ARG:HH11	1:B:30:ARG:HB2	1.70	0.57
2:M:510:ALA:HB3	2:M:513:VAL:CG2	2.35	0.57
4:O:32:ARG:HA	9:O:4513:HOH:O	2.05	0.57
2:C:728:HIS:HB3	2:C:729:LEU:HD12	1.87	0.57
3:D:53:ILE:HG12	3:D:53:ILE:O	2.03	0.57
5:F:401:GLU:O	5:F:405:LEU:HB2	2.04	0.57
2:C:395:LYS:HG2	2:C:397:GLU:HG3	1.86	0.57
1:K:67:THR:OG1	2:M:609:ASN:ND2	2.37	0.57
1:B:86:VAL:HA	9:B:479:HOH:O	2.04	0.57
1:L:41:ARG:HG3	1:L:177:VAL:CG2	2.34	0.57
5:P:416:ARG:NH1	5:P:419:ARG:HB2	2.20	0.57
4:E:47:LYS:HA	4:E:54:LEU:HB3	1.87	0.57
2:M:1109:VAL:HG11	3:N:5:VAL:HG22	1.86	0.57
2:C:816:LYS:HB2	2:C:819:VAL:HG21	1.85	0.57
3:N:1129:THR:HG23	3:N:1130:ARG:H	1.70	0.57
2:C:661:SER:HB2	9:C:2008:HOH:O	2.04	0.57
3:D:420:VAL:HG23	9:D:9536:HOH:O	2.04	0.57
2:C:184:MET:HG2	9:C:1676:HOH:O	2.04	0.57
5:F:321:ILE:HG22	5:F:322:GLY:H	1.69	0.57
2:C:859:PRO:O	2:C:867:VAL:HG22	2.05	0.57
3:N:1019:PRO:O	3:N:1023:MET:HG3	2.05	0.57
3:N:820:GLU:HB2	3:N:836:VAL:HG11	1.85	0.57
2:M:569:VAL:HG11	2:M:996:LYS:NZ	2.19	0.57
2:M:397:GLU:HG3	2:M:633:GLN:NE2	2.20	0.57
2:M:721:ARG:HH22	2:M:785:VAL:HG21	1.70	0.57
3:D:141:ILE:HG12	3:D:449:SER:HA	1.86	0.57
4:O:39:VAL:HB	4:O:72:ARG:HD2	1.87	0.57
3:D:36:THR:C	3:D:38:LYS:H	2.08	0.57
1:B:226:SER:HB3	9:B:512:HOH:O	2.04	0.57
5:F:115:LYS:HE2	5:F:118:GLU:OE2	2.04	0.57
5:F:142:ARG:CZ	5:F:150:THR:HG21	2.35	0.57
3:D:574:LEU:O	3:D:578:VAL:HG23	2.05	0.57
2:C:122:THR:HG21	9:C:1356:HOH:O	2.04	0.57
2:M:286:SER:CB	2:M:299:LYS:HE3	2.34	0.57
3:D:81:THR:HG22	3:D:82:LYS:H	1.70	0.57
3:D:598:ARG:HG3	3:D:599:PRO:N	2.20	0.57
2:C:1085:PHE:O	2:C:1089:VAL:HG23	2.05	0.57
2:C:1067:TYR:O	2:C:1071:ILE:HG12	2.05	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:73:GLU:HB3	1:B:77:GLU:CG	2.35	0.57
3:D:1277:ILE:CD1	3:D:1301:LYS:HB2	2.33	0.57
2:C:710:ILE:HD11	2:C:758:ARG:HE	1.70	0.57
1:K:88:ARG:HE	1:K:121:GLU:CG	2.15	0.57
2:C:906:PHE:HB2	9:C:1288:HOH:O	2.04	0.57
5:P:403:LYS:HA	5:P:403:LYS:HZ3	1.70	0.57
3:D:478:LEU:HD13	3:D:1388:ARG:HH22	1.68	0.57
2:M:810:ASP:HB2	9:M:1758:HOH:O	2.05	0.57
2:M:72:ARG:NH2	2:M:112:GLU:HG3	2.20	0.57
1:A:5:LYS:O	1:A:8:ALA:HB2	2.05	0.57
1:K:57:TYR:CE2	1:K:161:ARG:HD2	2.40	0.57
2:M:513:VAL:HG13	9:M:1395:HOH:O	2.05	0.57
3:D:1107:VAL:HG12	3:D:1217:ILE:HA	1.87	0.57
2:M:162:ILE:O	2:M:164:PRO:HD3	2.04	0.56
3:N:625:TYR:O	3:N:749:VAL:HG23	2.04	0.56
2:C:773:LEU:O	2:C:777:ILE:HG13	2.05	0.56
2:C:971:LYS:HA	2:C:988:VAL:HA	1.87	0.56
3:D:210:ARG:HG3	3:D:398:ALA:H	1.70	0.56
1:B:206:THR:CG2	1:B:209:GLU:H	2.18	0.56
4:E:73:LEU:HG	9:E:100:HOH:O	2.03	0.56
5:F:171:LYS:HD2	5:F:174:LEU:HD12	1.86	0.56
2:M:676:ILE:O	2:M:676:ILE:HG23	2.05	0.56
3:D:714:GLN:HB2	3:D:736:PHE:HZ	1.69	0.56
1:L:28:LEU:O	1:L:192:LEU:HD23	2.05	0.56
4:E:48:MET:N	4:E:54:LEU:HB2	2.19	0.56
1:L:112:ARG:HH12	1:L:126:ASP:HA	1.69	0.56
4:O:61:GLU:O	4:O:65:MET:HE2	2.05	0.56
2:M:957:LYS:HG3	9:M:1885:HOH:O	2.05	0.56
2:M:984:GLU:O	3:N:946:GLY:HA3	2.04	0.56
2:C:644:VAL:HG11	9:C:1903:HOH:O	2.04	0.56
3:N:19:ARG:HB3	9:N:9131:HOH:O	2.04	0.56
2:M:281:LEU:CD1	2:M:306:THR:HA	2.34	0.56
2:C:146:VAL:HG13	2:C:161:SER:O	2.05	0.56
2:C:172:ILE:H	2:C:172:ILE:HD12	1.70	0.56
3:D:116:LEU:HD23	3:D:468:LEU:HD11	1.87	0.56
1:B:52:ALA:HB1	9:B:364:HOH:O	2.04	0.56
3:D:1425:THR:HG23	3:D:1426:LYS:N	2.19	0.56
3:D:864:VAL:HG23	3:D:877:PRO:HD3	1.87	0.56
2:M:534:VAL:H	2:M:538:GLN:NE2	2.03	0.56
1:L:67:THR:HG23	9:L:5452:HOH:O	2.06	0.56
3:D:49:ILE:HB	3:D:50:PHE:CD1	2.41	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:868:TYR:CG	3:D:869:MET:N	2.72	0.56
5:F:293:GLU:HG2	9:F:663:HOH:O	2.05	0.56
2:M:304:LEU:HD23	2:M:305:PRO:HD3	1.88	0.56
3:N:728:LEU:HD22	3:N:745:MET:SD	2.45	0.56
1:A:224:TYR:CD2	1:B:9:PRO:HG2	2.40	0.56
3:D:86:ARG:HH11	3:D:86:ARG:HG2	1.68	0.56
5:F:136:LEU:HD11	9:F:879:HOH:O	2.05	0.56
5:F:127:ILE:HG12	9:F:445:HOH:O	2.05	0.56
3:D:18:ILE:HG21	3:D:516:ALA:O	2.05	0.56
2:C:41:ASN:O	2:C:46:ALA:HB2	2.06	0.56
5:F:363:GLU:HG3	9:F:548:HOH:O	2.05	0.56
2:M:288:ARG:HB3	9:M:1410:HOH:O	2.05	0.56
1:A:206:THR:CG2	1:A:209:GLU:H	2.18	0.56
2:M:54:ILE:HG22	2:M:66:LEU:HB3	1.86	0.56
2:C:838:LYS:HD2	2:C:846:LYS:NZ	2.21	0.56
3:D:530:VAL:HB	3:D:534:ARG:CB	2.35	0.56
2:M:879:ARG:NH1	3:N:1029:ARG:HH12	2.02	0.56
3:D:1314:LYS:HD2	9:D:9848:HOH:O	2.03	0.56
3:D:834:THR:HG22	3:D:838:ARG:HD2	1.87	0.56
1:L:74:ASP:OD2	1:L:76:VAL:HG23	2.05	0.56
3:N:8:VAL:HG23	9:N:9563:HOH:O	2.04	0.56
1:L:36:LEU:O	1:L:39:PRO:HD2	2.05	0.56
3:N:409:VAL:HG23	9:N:9521:HOH:O	2.06	0.56
2:M:145:GLY:O	2:M:163:ILE:HG23	2.06	0.56
5:P:132:ARG:NE	5:P:184:ARG:HH12	2.04	0.56
2:M:918:LEU:HD23	2:M:968:LEU:HA	1.87	0.56
3:D:1093:TYR:O	3:D:1097:LYS:HG2	2.05	0.56
5:F:260:ILE:HD11	5:F:310:ILE:HG22	1.86	0.56
2:M:52:PHE:CG	2:M:68:PHE:HB2	2.41	0.56
1:B:139:ASN:HB2	9:B:334:HOH:O	2.06	0.56
3:D:817:GLU:O	3:D:821:VAL:HG23	2.05	0.56
2:C:724:ARG:NH1	2:C:734:LEU:HD23	2.21	0.56
2:M:89:THR:HA	2:M:129:ILE:O	2.06	0.56
3:D:957:PRO:HG2	3:D:1007:VAL:HG12	1.87	0.56
5:P:292:ALA:HB1	5:P:299:TRP:O	2.06	0.56
3:D:1280:VAL:HG23	3:D:1295:GLU:O	2.05	0.56
2:M:262:ALA:HA	9:M:1860:HOH:O	2.06	0.56
3:D:424:GLY:HA2	3:D:435:VAL:O	2.04	0.56
3:D:462:GLN:HG2	9:D:9526:HOH:O	2.06	0.56
1:B:144:VAL:HG12	9:B:467:HOH:O	2.05	0.56
2:C:313:LEU:HB2	2:C:321:GLU:HG3	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1055:LEU:HD21	2:C:1079:PRO:HG3	1.87	0.56
3:D:171:LEU:HD22	3:D:390:PRO:HG3	1.87	0.56
2:C:338:GLU:HA	2:C:341:THR:HG22	1.88	0.56
2:C:941:VAL:HG22	9:C:1556:HOH:O	2.05	0.56
3:D:1277:ILE:HG23	9:D:9898:HOH:O	2.05	0.56
3:D:460:ALA:O	3:D:464:LEU:HG	2.05	0.56
3:N:1147:ARG:O	3:N:1165:TYR:HA	2.06	0.56
4:O:31:LEU:HD23	4:O:35:PHE:CE1	2.40	0.56
3:D:154:THR:HG22	3:D:157:GLU:OE2	2.05	0.56
5:P:152:ASP:HB2	5:P:153:PRO:HD3	1.87	0.56
4:O:61:GLU:H	4:O:61:GLU:CD	2.07	0.56
3:D:984:THR:HG23	3:D:987:GLU:H	1.70	0.56
3:N:1000:THR:O	3:N:1003:VAL:HG22	2.06	0.56
3:D:890:VAL:HG22	3:D:926:LYS:HD3	1.87	0.56
1:L:100:LEU:O	1:L:115:LEU:HG	2.05	0.56
3:N:562:ALA:HB1	3:N:567:ILE:HD11	1.88	0.56
2:M:545:ASN:O	2:M:581:THR:HG21	2.06	0.56
5:P:321:ILE:HB	5:P:327:SER:OG	2.05	0.56
5:F:361:LEU:HD23	5:F:362:SER:N	2.16	0.56
3:N:1290:LEU:HA	9:N:9828:HOH:O	2.06	0.56
3:D:1036:ARG:HH21	3:D:1042:ARG:HA	1.71	0.56
2:M:358:ARG:HH22	2:M:374:ASN:HB3	1.71	0.56
2:M:157:ARG:HB3	9:M:1582:HOH:O	2.04	0.56
3:D:996:TRP:HA	3:D:999:THR:HG22	1.86	0.56
5:F:87:GLU:HB3	9:F:725:HOH:O	2.04	0.56
5:P:292:ALA:HA	5:P:299:TRP:HB3	1.88	0.56
2:C:949:LYS:HA	3:D:798:GLU:OE1	2.06	0.56
2:C:95:TYR:CD2	2:C:114:PHE:HB3	2.41	0.56
5:P:79:ASP:HB3	5:P:80:PRO:CD	2.36	0.56
5:P:210:LEU:HA	5:P:213:ILE:HD12	1.88	0.56
2:C:70:GLU:HB3	9:C:1380:HOH:O	2.04	0.56
2:C:889:HIS:HE1	3:D:951:ILE:H	1.53	0.56
2:M:447:ALA:HB2	9:M:1391:HOH:O	2.04	0.56
3:D:483:HIS:ND1	3:D:483:HIS:N	2.54	0.56
3:N:75:ARG:HB3	9:N:9139:HOH:O	2.05	0.56
1:A:180:GLN:HB3	9:A:522:HOH:O	2.05	0.56
1:A:42:ARG:HH21	1:B:34:VAL:HB	1.71	0.56
3:D:427:VAL:CG2	3:D:435:VAL:HB	2.35	0.56
3:D:111:LYS:CE	3:D:1452:ILE:HG12	2.35	0.56
3:N:1109:GLU:HG2	3:N:1201:CYS:CA	2.34	0.56
2:C:305:PRO:HA	2:C:308:ARG:NE	2.21	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:24:VAL:HG13	9:L:6021:HOH:O	2.05	0.56
2:M:244:PRO:CD	2:M:245:GLY:H	2.18	0.56
2:C:264:PRO:HB3	2:C:289:THR:CG2	2.35	0.56
3:D:500:ARG:HH11	3:D:500:ARG:HG3	1.70	0.56
2:C:577:PRO:HG3	2:C:993:PHE:CD2	2.41	0.56
3:N:62:LYS:HD2	3:N:75:ARG:NH1	2.20	0.56
3:D:1000:THR:O	3:D:1003:VAL:HG22	2.05	0.56
2:C:24:GLU:OE1	2:C:27:ARG:HD3	2.06	0.56
3:N:472:ALA:HA	9:N:9634:HOH:O	2.05	0.56
2:M:216:GLU:HG2	2:M:217:LEU:HD23	1.88	0.56
3:N:1175:ILE:O	3:N:1179:GLU:HG3	2.04	0.56
3:D:1117:TYR:HE2	3:D:1151:ARG:HH11	1.53	0.56
2:C:195:LEU:HD12	2:C:234:ALA:HB1	1.87	0.56
3:D:523:ASP:O	3:D:526:PRO:HG3	2.06	0.56
2:M:605:LYS:HB2	2:M:610:ARG:HH12	1.71	0.56
2:C:1054:THR:HG22	2:C:1059:ASP:CB	2.35	0.56
3:N:1478:SER:OG	3:N:1480:PHE:HB3	2.04	0.56
1:K:18:ARG:O	1:K:207:PRO:HD3	2.06	0.56
3:N:554:LEU:O	3:N:558:LEU:HG	2.06	0.56
3:D:907:GLU:O	3:D:911:LEU:HD13	2.06	0.56
2:M:469:THR:OG1	2:M:470:PRO:HD2	2.05	0.56
2:C:521:PRO:HB2	3:D:1055:VAL:HB	1.86	0.56
3:N:95:LEU:CD2	3:N:574:LEU:HD11	2.35	0.56
3:D:869:MET:HE3	9:D:9791:HOH:O	2.06	0.56
1:K:104:GLU:HG2	1:K:105:GLY:N	2.21	0.56
2:M:173:ASP:HB2	2:M:185:LYS:NZ	2.21	0.56
2:M:154:ARG:NH2	2:M:156:GLY:HA3	2.12	0.56
3:N:573:MET:HE3	5:P:210:LEU:HD22	1.87	0.56
3:D:560:GLN:HG2	5:F:218:GLN:HE22	1.71	0.56
3:N:1314:LYS:HD3	3:N:1314:LYS:N	2.21	0.56
2:C:941:VAL:HA	2:C:944:LEU:HD12	1.87	0.56
3:D:1379:VAL:HA	3:D:1420:LEU:HB2	1.88	0.56
2:C:1003:ASP:O	2:C:1005:MET:N	2.39	0.56
2:M:620:LEU:HD21	9:M:1351:HOH:O	2.05	0.56
2:M:371:LYS:HB2	9:M:1144:HOH:O	2.05	0.56
5:P:352:GLU:O	5:P:356:LYS:HG3	2.06	0.56
1:L:73:GLU:HB3	1:L:77:GLU:HG2	1.88	0.56
2:M:368:THR:HB	2:M:369:PRO:HD3	1.88	0.56
3:D:1049:SER:HB3	9:D:9373:HOH:O	2.06	0.56
3:D:1232:PRO:HB3	3:D:1361:VAL:CG2	2.30	0.55
3:N:119:SER:H	3:N:123:LEU:CD1	2.20	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:105:VAL:HG21	3:N:128:TYR:HE2	1.71	0.55
2:M:1039:ALA:O	2:M:1043:TYR:HD1	1.88	0.55
2:M:707:ARG:HG3	2:M:826:TYR:CD2	2.41	0.55
3:D:206:ARG:O	3:D:206:ARG:HD3	2.06	0.55
3:N:853:VAL:HG22	3:N:858:VAL:HG23	1.89	0.55
2:M:1085:PHE:O	2:M:1089:VAL:HG23	2.05	0.55
2:M:916:GLU:HG2	9:M:1287:HOH:O	2.06	0.55
3:N:1047:LYS:HB3	3:N:1048:PRO:CD	2.36	0.55
2:C:12:VAL:HG21	9:C:1844:HOH:O	2.05	0.55
1:K:224:TYR:CD2	1:L:9:PRO:HG2	2.41	0.55
5:P:94:LEU:HB2	5:P:98:GLU:OE2	2.06	0.55
2:C:640:ARG:HG3	9:C:1776:HOH:O	2.06	0.55
3:N:36:THR:C	3:N:38:LYS:H	2.09	0.55
3:D:1104:GLU:HA	3:D:1461:GLY:HA2	1.89	0.55
5:P:113:ILE:HA	5:P:116:LEU:HD12	1.87	0.55
2:M:361:MET:HA	9:M:1201:HOH:O	2.06	0.55
2:C:232:GLU:HB2	9:C:1510:HOH:O	2.06	0.55
2:C:193:LEU:HD23	2:C:307:LEU:HD11	1.88	0.55
5:F:125:ASP:HA	5:F:128:ARG:CZ	2.37	0.55
3:N:1201:CYS:HB3	9:N:9751:HOH:O	2.07	0.55
3:D:148:GLU:HG2	3:D:151:GLN:CD	2.27	0.55
3:D:211:VAL:CG1	3:D:393:ILE:HG13	2.37	0.55
2:M:22:GLN:HE22	2:M:336:VAL:HG21	1.67	0.55
3:N:1020:LEU:HA	3:N:1023:MET:HE2	1.89	0.55
4:O:59:ASN:HB2	9:O:3650:HOH:O	2.06	0.55
3:D:699:VAL:H	3:D:756:GLN:HE22	1.52	0.55
3:N:208:PRO:CB	3:N:395:VAL:HG13	2.33	0.55
3:D:153:LEU:HD11	3:D:158:TYR:N	2.20	0.55
2:M:63:GLY:O	2:M:103:LYS:HE2	2.06	0.55
3:D:27:GLU:O	3:D:28:LYS:HD2	2.06	0.55
5:P:287:THR:C	5:P:289:GLU:H	2.10	0.55
2:C:250:ARG:HG2	2:C:253:ALA:HB3	1.89	0.55
5:F:255:ALA:HB3	9:F:662:HOH:O	2.06	0.55
3:N:1279:GLY:O	3:N:1318:TYR:HA	2.05	0.55
3:D:1224:VAL:HG11	9:D:2435:HOH:O	2.04	0.55
2:C:249:LYS:HB3	9:C:1545:HOH:O	2.06	0.55
1:A:42:ARG:HG2	1:A:42:ARG:HH11	1.71	0.55
5:P:385:GLU:O	5:P:397:ILE:HD13	2.06	0.55
2:C:176:VAL:C	2:C:178:PRO:HD3	2.26	0.55
2:C:193:LEU:HA	9:C:1346:HOH:O	2.06	0.55
3:D:1310:ARG:CD	3:D:1310:ARG:H	2.19	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:395:VAL:HG23	9:D:9389:HOH:O	2.06	0.55
2:M:136:ILE:HG21	2:M:336:VAL:HG13	1.88	0.55
5:P:166:LEU:HA	9:P:3458:HOH:O	2.06	0.55
3:D:493:ARG:NE	3:D:1388:ARG:HB3	2.20	0.55
3:D:531:ASP:C	3:D:533:GLY:H	2.07	0.55
3:D:230:TRP:HA	9:D:9066:HOH:O	2.06	0.55
3:N:629:SER:HB3	9:N:9650:HOH:O	2.04	0.55
3:N:654:LYS:HB3	3:N:655:PRO:HD3	1.87	0.55
2:M:1021:LEU:HD22	5:P:331:ASP:O	2.07	0.55
1:K:95:GLN:HG3	9:K:3698:HOH:O	2.07	0.55
3:D:923:GLY:N	9:D:9237:HOH:O	2.38	0.55
3:N:16:GLU:HB2	9:N:2292:HOH:O	2.06	0.55
3:D:409:VAL:HG21	9:F:551:HOH:O	2.06	0.55
3:D:424:GLY:HA2	3:D:436:GLU:HA	1.88	0.55
2:M:1102:LEU:HB2	3:N:7:LYS:CG	2.31	0.55
5:P:132:ARG:HE	5:P:184:ARG:HH12	1.54	0.55
2:M:332:ARG:HG3	9:M:1433:HOH:O	2.04	0.55
1:B:38:ASN:HB3	9:B:384:HOH:O	2.05	0.55
2:C:983:ILE:HG23	3:D:944:THR:O	2.06	0.55
2:M:979:THR:HG23	2:M:981:GLU:HB2	1.88	0.55
5:P:321:ILE:HG22	5:P:322:GLY:N	2.21	0.55
3:N:1281:VAL:HG23	3:N:1317:ASP:O	2.07	0.55
4:O:33:HIS:CD2	4:O:89:MET:HG2	2.40	0.55
3:D:1033:GLN:HE21	3:D:1036:ARG:NH1	2.04	0.55
3:D:1123:PHE:CE2	3:D:1184:GLN:HA	2.41	0.55
3:D:152:LEU:HD21	9:D:2148:HOH:O	2.06	0.55
3:D:152:LEU:H	3:D:152:LEU:HD23	1.70	0.55
5:F:151:LEU:HD21	9:F:614:HOH:O	2.06	0.55
2:C:713:ARG:HD3	9:C:1752:HOH:O	2.06	0.55
1:A:19:GLU:HB2	9:A:348:HOH:O	2.05	0.55
5:P:369:LEU:O	5:P:373:LYS:HB2	2.07	0.55
5:P:112:ALA:HA	5:P:173:TYR:HD2	1.70	0.55
5:F:375:LEU:HD13	9:F:731:HOH:O	2.05	0.55
5:P:272:SER:HB3	9:P:3990:HOH:O	2.06	0.55
3:N:428:LYS:HB3	3:N:450:TYR:HE1	1.72	0.55
2:M:860:HIS:N	9:M:1226:HOH:O	2.39	0.55
3:D:423:ASP:OD2	5:F:174:LEU:HD22	2.07	0.55
1:B:211:LEU:O	1:B:215:VAL:HG13	2.06	0.55
2:C:660:ALA:HB1	2:C:667:ALA:O	2.07	0.55
2:C:285:LEU:HD12	2:C:288:ARG:O	2.06	0.55
3:N:225:LEU:HA	9:N:9604:HOH:O	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:93:ILE:HD13	3:D:547:LEU:HD23	1.87	0.55
3:D:576:GLU:HA	3:D:579:ASP:OD2	2.07	0.55
2:C:204:GLN:NE2	2:C:222:MET:HA	2.21	0.55
5:P:244:ARG:NH1	5:P:244:ARG:HG3	2.21	0.55
3:D:1008:PHE:HB3	9:D:2325:HOH:O	2.05	0.55
3:N:1362:LYS:HD3	9:N:9859:HOH:O	2.07	0.55
5:F:152:ASP:HB2	5:F:153:PRO:HD3	1.89	0.55
9:C:1541:HOH:O	3:D:1471:LEU:HA	2.07	0.55
2:C:149:THR:HG22	9:C:1612:HOH:O	2.07	0.55
1:B:19:GLU:HG3	1:B:201:THR:O	2.06	0.55
2:C:136:ILE:HG21	2:C:336:VAL:HG13	1.86	0.55
5:P:351:SER:O	5:P:355:GLU:HB2	2.07	0.55
3:N:105:VAL:HG13	3:N:124:GLU:OE1	2.07	0.55
3:D:1468:LEU:HD23	3:D:1468:LEU:O	2.05	0.55
2:M:758:ARG:HB3	2:M:788:THR:O	2.06	0.55
5:P:335:ASP:OD1	5:P:338:LEU:HB2	2.07	0.55
3:N:402:PRO:HG2	3:N:444:VAL:HG11	1.89	0.55
3:N:1468:LEU:HD23	3:N:1468:LEU:O	2.06	0.55
5:F:94:LEU:HD22	5:F:97:GLU:HG2	1.89	0.55
2:C:218:VAL:HA	2:C:221:LEU:HD23	1.88	0.55
1:K:150:TYR:CE1	2:M:696:LYS:HA	2.41	0.55
3:N:1362:LYS:HE3	9:N:9889:HOH:O	2.06	0.55
2:M:928:LYS:HB3	9:M:1297:HOH:O	2.06	0.55
2:M:1106:ASP:HB3	9:M:1439:HOH:O	2.06	0.55
2:C:535:SER:H	2:C:538:GLN:NE2	2.04	0.55
3:N:1428:ALA:O	3:N:1431:THR:HG22	2.07	0.55
1:A:26:GLU:HB3	9:A:331:HOH:O	2.06	0.55
3:N:422:ALA:H	3:N:427:VAL:CG1	2.19	0.55
3:N:427:VAL:HB	3:N:435:VAL:CG2	2.37	0.55
5:P:192:LEU:O	5:P:196:VAL:HG23	2.07	0.55
3:D:135:LEU:HD11	3:D:139:GLY:HA3	1.88	0.55
3:N:1038:LEU:O	3:N:1060:SER:HB2	2.07	0.55
3:N:543:LEU:HD23	9:N:9308:HOH:O	2.07	0.55
5:F:274:THR:O	5:F:278:LEU:HG	2.06	0.55
3:D:1291:SER:HB2	3:D:1293:PHE:HE1	1.71	0.55
1:L:73:GLU:HB3	1:L:77:GLU:CG	2.36	0.55
2:M:1040:LEU:HG	2:M:1045:ALA:HB3	1.88	0.55
2:C:471:TYR:CE2	2:C:496:ILE:HG21	2.40	0.55
5:P:105:LYS:NZ	5:P:179:GLU:HB3	2.22	0.55
5:F:364:ARG:HB3	9:F:765:HOH:O	2.07	0.55
1:A:42:ARG:HH12	2:C:857:ASP:CB	2.01	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:146:VAL:HG13	2:M:161:SER:O	2.07	0.55
2:C:437:ARG:HE	2:C:469:THR:N	2.05	0.55
3:N:973:GLN:HA	3:N:976:GLN:NE2	2.18	0.55
2:M:861:LEU:HD22	2:M:863:ASP:OD1	2.06	0.55
2:C:802:ARG:HG2	9:C:1991:HOH:O	2.07	0.55
3:D:1147:ARG:HB3	3:D:1188:VAL:HG21	1.88	0.55
3:N:1045:MET:HB2	9:N:2112:HOH:O	2.06	0.55
2:C:1101:THR:HB	3:D:5:VAL:HG13	1.87	0.55
1:A:198:ARG:HB2	1:A:200:TRP:CH2	2.42	0.55
3:N:380:GLU:O	3:N:382:GLU:N	2.39	0.55
3:N:1282:ARG:HD3	3:N:1295:GLU:OE1	2.07	0.55
5:P:261:PRO:HB3	9:P:5968:HOH:O	2.07	0.55
3:D:380:GLU:O	3:D:382:GLU:N	2.39	0.55
2:C:320:HIS:HB3	9:C:2145:HOH:O	2.06	0.55
2:M:173:ASP:O	2:M:184:MET:HA	2.06	0.55
2:M:607:ASP:HB3	2:M:609:ASN:H	1.71	0.55
2:C:302:VAL:HG12	9:C:1479:HOH:O	2.06	0.55
1:B:184:THR:HB	1:B:194:LYS:NZ	2.22	0.55
3:D:207:PHE:CB	3:D:208:PRO:HD2	2.35	0.55
2:C:347:GLY:HA2	2:C:350:ARG:HD2	1.89	0.55
1:L:41:ARG:NH1	1:L:177:VAL:HG23	2.21	0.55
1:K:211:LEU:O	1:K:215:VAL:HG22	2.07	0.55
1:A:9:PRO:HB3	1:A:25:LEU:HD11	1.89	0.55
2:C:208:ALA:HB1	2:C:218:VAL:HG13	1.88	0.55
2:M:742:VAL:HG12	2:M:743:VAL:N	2.22	0.55
3:D:1164:ARG:HA	9:D:9172:HOH:O	2.06	0.55
2:C:360:LEU:HD12	9:C:1422:HOH:O	2.06	0.55
3:N:1058:ARG:HH11	3:N:1058:ARG:HG3	1.72	0.55
2:M:319:GLY:HA3	9:M:1194:HOH:O	2.06	0.55
3:N:68:PHE:O	3:N:71:LYS:HG2	2.07	0.55
3:N:593:ASN:CG	5:P:206:GLY:HA2	2.27	0.55
5:F:107:GLU:HG2	9:F:554:HOH:O	2.07	0.55
2:C:135:VAL:O	2:C:392:SER:HA	2.07	0.55
3:D:1262:LEU:HD23	3:D:1352:ILE:CG1	2.37	0.55
3:N:566:ILE:HG12	5:P:217:ASN:ND2	2.21	0.55
2:C:351:LEU:HG	9:C:1597:HOH:O	2.07	0.55
2:C:313:LEU:CA	2:C:321:GLU:HG3	2.36	0.55
5:F:393:THR:HG21	9:F:866:HOH:O	2.07	0.55
3:D:1468:LEU:HD22	3:D:1470:ARG:HB2	1.89	0.55
5:F:361:LEU:HD23	5:F:362:SER:OG	2.07	0.55
3:D:493:ARG:CZ	3:D:1388:ARG:HB3	2.37	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:805:GLU:OE1	3:D:809:PRO:HD2	2.07	0.55
1:A:150:TYR:CE2	1:A:152:PRO:HG3	2.38	0.55
2:C:186:VAL:HG23	9:C:1478:HOH:O	2.06	0.55
1:A:13:VAL:HG12	1:A:15:THR:HG22	1.89	0.55
3:N:1267:ARG:NH2	3:N:1271:LYS:HD2	2.22	0.55
3:D:459:GLU:HG2	9:D:9650:HOH:O	2.07	0.55
3:D:1159:ARG:HB2	9:D:9819:HOH:O	2.07	0.55
1:L:30:ARG:NH2	2:M:854:PRO:HG3	2.22	0.55
1:L:137:ARG:HB2	9:L:5311:HOH:O	2.07	0.55
4:E:31:LEU:HD12	4:E:32:ARG:HD3	1.89	0.55
3:N:602:SER:O	3:N:606:ILE:HG12	2.07	0.55
2:C:697:ARG:HA	9:C:1783:HOH:O	2.07	0.55
2:C:534:VAL:H	2:C:538:GLN:HE22	1.56	0.54
3:N:211:VAL:HG13	3:N:393:ILE:HA	1.90	0.54
1:A:184:THR:HG23	1:A:192:LEU:HD12	1.88	0.54
2:C:333:ILE:HD11	2:C:467:ILE:HG13	1.89	0.54
3:N:80:VAL:HG23	9:N:9633:HOH:O	2.06	0.54
3:N:105:VAL:HG21	3:N:128:TYR:CE2	2.42	0.54
2:C:1085:PHE:CE2	3:D:1468:LEU:HA	2.42	0.54
3:D:209:ARG:HH22	3:D:397:LYS:HG3	1.71	0.54
2:C:866:PRO:HD2	9:C:1297:HOH:O	2.07	0.54
2:C:79:PRO:HD3	9:C:1934:HOH:O	2.07	0.54
2:C:601:GLY:O	2:C:648:ARG:HA	2.07	0.54
5:P:291:ILE:O	5:P:295:MET:HB2	2.07	0.54
3:N:844:ALA:O	3:N:867:ARG:HB3	2.06	0.54
3:D:1086:LEU:N	6:D:8001:STD:H32	2.22	0.54
1:A:109:VAL:HG23	1:A:132:LEU:HD13	1.88	0.54
2:C:86:LYS:HE2	9:C:1713:HOH:O	2.06	0.54
3:D:584:ASN:ND2	3:D:590:PRO:HD2	2.22	0.54
2:M:1116:ALA:HB3	9:M:1163:HOH:O	2.06	0.54
2:M:165:LEU:HD12	2:M:166:PRO:C	2.28	0.54
2:M:170:PRO:HD3	2:M:263:ASP:HB3	1.89	0.54
3:N:1396:GLU:O	3:N:1400:VAL:HG23	2.07	0.54
1:A:26:GLU:HG2	1:A:27:PRO:HG3	1.88	0.54
3:N:423:ASP:OD1	5:P:174:LEU:HD13	2.06	0.54
3:D:1103:HIS:CD2	3:D:1463:LYS:H	2.25	0.54
3:D:215:TYR:O	3:D:389:GLU:HB2	2.08	0.54
2:C:464:LEU:O	2:C:466:PHE:N	2.40	0.54
3:D:135:LEU:CD1	3:D:147:VAL:HG23	2.35	0.54
2:C:643:VAL:HG13	2:C:647:GLN:OE1	2.08	0.54
3:N:661:MET:CE	3:N:677:LEU:HD11	2.37	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:656:PHE:CE2	3:N:698:LYS:HE3	2.42	0.54
2:C:666:LEU:HD21	9:C:1827:HOH:O	2.07	0.54
2:C:405:ARG:NH2	2:C:566:THR:HG21	2.22	0.54
3:N:584:ASN:CG	3:N:590:PRO:HD2	2.27	0.54
3:N:996:TRP:HE3	3:N:999:THR:HG21	1.71	0.54
2:C:418:LEU:HD22	2:C:418:LEU:N	2.23	0.54
3:D:584:ASN:CG	3:D:590:PRO:HD2	2.28	0.54
3:N:829:VAL:HA	9:N:9025:HOH:O	2.06	0.54
3:N:1127:GLU:CB	3:N:1133:ARG:HH12	2.21	0.54
3:D:965:GLU:HB2	9:D:9143:HOH:O	2.06	0.54
1:L:38:ASN:HB3	1:L:39:PRO:HD3	1.90	0.54
3:N:1182:GLU:HG2	9:N:2291:HOH:O	2.06	0.54
1:A:116:PRO:HD3	9:A:510:HOH:O	2.06	0.54
2:M:231:PRO:HA	9:M:2063:HOH:O	2.06	0.54
3:N:1502:ALA:HB3	9:N:2086:HOH:O	2.08	0.54
2:M:176:VAL:HG12	2:M:182:VAL:CG1	2.33	0.54
3:D:104:PHE:CD2	3:D:1448:THR:HG23	2.43	0.54
2:M:464:LEU:O	2:M:466:PHE:N	2.41	0.54
5:F:132:ARG:O	5:F:136:LEU:HG	2.07	0.54
2:M:862:PRO:HA	2:M:975:TYR:CE1	2.41	0.54
3:D:1090:ASP:O	3:D:1093:TYR:HB3	2.06	0.54
1:L:91:ASN:O	1:L:94:LEU:HD12	2.08	0.54
2:M:674:VAL:HG23	2:M:869:VAL:O	2.07	0.54
3:D:1063:GLU:HB2	9:D:9009:HOH:O	2.06	0.54
2:C:285:LEU:HD23	2:C:285:LEU:O	2.07	0.54
1:K:198:ARG:HD3	1:K:200:TRP:HH2	1.72	0.54
3:N:399:ARG:HB3	3:N:402:PRO:HG3	1.90	0.54
3:D:126:VAL:HG12	3:D:132:TYR:HB2	1.87	0.54
2:M:33:ASP:OD1	2:M:34:VAL:HG13	2.07	0.54
3:N:416:ALA:HB3	3:N:417:PRO:HD3	1.89	0.54
5:F:142:ARG:NH1	5:F:150:THR:HG21	2.23	0.54
2:M:839:LEU:HD21	2:M:849:VAL:HG23	1.90	0.54
2:C:32:ALA:HB2	2:C:73:LEU:HD21	1.89	0.54
3:N:104:PHE:CE2	3:N:1448:THR:HG23	2.42	0.54
1:K:5:LYS:O	1:K:8:ALA:HB2	2.07	0.54
2:C:140:ILE:HD11	9:C:1460:HOH:O	2.06	0.54
2:M:276:LYS:O	2:M:280:LYS:HB2	2.08	0.54
3:N:130:SER:O	3:N:568:ARG:NH2	2.40	0.54
3:D:513:ILE:HA	9:D:2414:HOH:O	2.06	0.54
3:N:69:GLU:HA	9:N:9077:HOH:O	2.08	0.54
2:C:486:MET:SD	2:C:491:GLU:HA	2.46	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:134:VAL:HG12	3:N:152:LEU:HB3	1.90	0.54
3:N:464:LEU:HD11	9:N:9332:HOH:O	2.07	0.54
3:N:478:LEU:HD22	3:N:1388:ARG:NH2	2.22	0.54
1:L:24:VAL:HG23	9:L:5344:HOH:O	2.08	0.54
4:O:54:LEU:O	4:O:54:LEU:HD23	2.08	0.54
4:O:33:HIS:HB2	4:O:37:ASN:ND2	2.23	0.54
3:N:681:ARG:HG3	3:N:682:ASP:OD1	2.08	0.54
1:B:44:LEU:HD21	1:B:199:ILE:HD13	1.88	0.54
5:F:260:ILE:CG2	5:F:264:MET:HB2	2.35	0.54
3:D:571:LYS:HB2	3:D:571:LYS:NZ	2.23	0.54
3:D:679:ARG:HD2	9:D:9184:HOH:O	2.07	0.54
3:N:430:ASP:HB2	3:N:432:TYR:CE2	2.42	0.54
3:D:130:SER:HB3	3:D:132:TYR:CE1	2.42	0.54
2:C:530:GLU:HA	9:C:1437:HOH:O	2.06	0.54
2:C:198:ARG:HH21	2:C:204:GLN:H	1.54	0.54
1:L:123:MET:O	1:L:125:PRO:HD3	2.08	0.54
3:D:583:ASP:HA	3:D:602:SER:OG	2.07	0.54
3:N:1104:GLU:O	3:N:1106:VAL:HG23	2.07	0.54
1:A:198:ARG:C	1:A:199:ILE:HD12	2.27	0.54
5:F:152:ASP:HA	9:F:446:HOH:O	2.06	0.54
5:P:420:ASP:HB2	9:P:5127:HOH:O	2.07	0.54
4:E:86:GLN:O	4:E:90:GLU:HG3	2.07	0.54
3:N:102:ILE:HB	9:N:2184:HOH:O	2.08	0.54
2:C:881:ASN:HD22	2:C:881:ASN:H	1.56	0.54
2:M:798:GLY:H	2:M:827:VAL:CG1	2.20	0.54
1:K:3:ASP:HB2	9:K:4710:HOH:O	2.07	0.54
2:C:196:LEU:HD13	2:C:303:PHE:CZ	2.41	0.54
2:M:260:LEU:HG	2:M:261:ILE:HG13	1.88	0.54
3:N:181:ASP:HB3	9:N:9482:HOH:O	2.08	0.54
1:A:24:VAL:HG12	9:A:331:HOH:O	2.07	0.54
3:N:560:GLN:HB2	9:P:5398:HOH:O	2.07	0.54
2:C:173:ASP:O	2:C:184:MET:HA	2.07	0.54
2:C:182:VAL:HG21	9:C:1151:HOH:O	2.07	0.54
3:N:428:LYS:HB3	3:N:450:TYR:CE1	2.43	0.54
2:M:669:GLY:C	2:M:670:GLN:HG3	2.28	0.54
3:N:52:PRO:HB3	3:N:80:VAL:HG13	1.89	0.54
3:N:123:LEU:HD21	3:N:152:LEU:HD22	1.89	0.54
2:M:409:ARG:HA	2:M:454:SER:CA	2.35	0.54
3:D:209:ARG:HE	3:D:210:ARG:HD3	1.72	0.54
2:C:69:LEU:HD21	2:C:99:GLN:NE2	2.22	0.54
9:C:1424:HOH:O	3:D:3:LYS:HE3	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:274:ARG:CD	2:C:285:LEU:HD22	2.36	0.54
3:N:661:MET:SD	3:N:673:ALA:HB1	2.47	0.54
2:C:423:ALA:HB2	6:D:8001:STD:C10	2.38	0.54
2:C:380:ALA:O	2:C:384:GLU:HB2	2.07	0.54
3:D:767:HIS:NE2	4:E:6:ILE:HG12	2.23	0.54
3:N:1335:LEU:HD21	9:N:9791:HOH:O	2.08	0.54
2:M:264:PRO:HB3	2:M:289:THR:CB	2.37	0.54
2:C:534:VAL:HB	2:C:538:GLN:CD	2.27	0.54
1:K:100:LEU:HG	9:K:3937:HOH:O	2.08	0.54
3:N:624:ASP:HB3	3:N:625:TYR:CD1	2.42	0.54
3:N:422:ALA:HB2	9:N:9964:HOH:O	2.07	0.54
5:P:135:ILE:HD12	9:P:4903:HOH:O	2.07	0.54
3:N:49:ILE:HB	3:N:50:PHE:CD1	2.43	0.54
3:D:966:GLU:O	3:D:969:ARG:HG2	2.07	0.54
3:N:1380:GLU:OE2	3:N:1390:LEU:HD22	2.07	0.54
2:C:604:ALA:HB3	2:C:612:VAL:O	2.08	0.54
3:D:628:ARG:HG2	9:D:9834:HOH:O	2.07	0.54
2:M:707:ARG:HG3	2:M:826:TYR:CE2	2.42	0.54
2:C:142:ARG:NH1	2:C:325:ILE:HG12	2.22	0.54
1:A:92:PRO:HD3	9:A:335:HOH:O	2.07	0.54
3:N:661:MET:HE2	3:N:677:LEU:HD11	1.89	0.54
2:C:577:PRO:HG3	2:C:993:PHE:CE2	2.43	0.54
5:F:407:LYS:HD3	9:F:714:HOH:O	2.08	0.54
3:D:865:THR:HG21	9:D:9950:HOH:O	2.08	0.54
3:N:584:ASN:ND2	3:N:590:PRO:HD2	2.23	0.54
2:M:380:ALA:HB2	9:M:1838:HOH:O	2.08	0.54
3:N:459:GLU:HG3	3:N:460:ALA:N	2.22	0.54
2:M:564:MET:HG2	2:M:840:ALA:HB3	1.90	0.54
5:P:374:GLY:HA3	9:P:5465:HOH:O	2.08	0.54
2:C:105:THR:HG23	9:C:1683:HOH:O	2.06	0.54
4:E:33:HIS:CD2	4:E:89:MET:HG2	2.42	0.54
3:D:774:SER:C	3:D:776:GLU:H	2.11	0.54
2:C:28:ARG:HG3	2:C:40:GLU:OE1	2.08	0.54
2:M:257:VAL:HG13	9:M:1389:HOH:O	2.08	0.54
2:M:305:PRO:CG	2:M:308:ARG:HH21	2.21	0.54
2:C:793:PRO:HD2	9:C:2039:HOH:O	2.05	0.54
3:N:1395:LEU:HG	9:N:2029:HOH:O	2.08	0.54
2:C:281:LEU:HD11	2:C:306:THR:HA	1.90	0.54
3:D:15:PRO:HA	3:D:18:ILE:CG1	2.38	0.54
2:M:717:LEU:HD12	2:M:761:PHE:HB2	1.89	0.54
3:N:1310:ARG:HG3	3:N:1327:ARG:HB2	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:325:ILE:HD12	9:C:1988:HOH:O	2.07	0.54
1:A:11:PHE:CD1	1:A:25:LEU:HD13	2.41	0.54
2:C:722:ILE:CG2	2:C:805:ARG:HH21	2.20	0.54
2:C:717:LEU:HD12	9:C:1324:HOH:O	2.07	0.54
2:C:402:SER:OG	2:C:566:THR:HG22	2.07	0.54
2:M:41:ASN:HB3	9:M:1869:HOH:O	2.06	0.54
2:M:209:ARG:O	2:M:213:ALA:HB2	2.07	0.54
2:C:1105:LYS:HA	9:C:2031:HOH:O	2.07	0.54
2:M:143:SER:HB3	2:M:330:ASN:O	2.07	0.54
2:M:604:ALA:HB3	2:M:612:VAL:O	2.08	0.54
2:C:233:GLU:HB2	9:C:1569:HOH:O	2.08	0.54
2:M:139:GLN:HE21	2:M:334:ARG:HD2	1.71	0.54
2:C:433:THR:HA	9:C:1158:HOH:O	2.06	0.54
5:F:220:LEU:HD21	9:F:598:HOH:O	2.06	0.54
2:M:1098:ASP:HB2	3:N:21:TRP:HZ2	1.71	0.54
5:P:260:ILE:HD11	5:P:310:ILE:CG2	2.36	0.54
2:C:724:ARG:NE	2:C:737:LEU:O	2.41	0.54
3:N:542:ASP:O	3:N:546:ARG:HG2	2.08	0.54
5:F:100:VAL:HG23	9:F:444:HOH:O	2.07	0.54
3:N:863:VAL:HA	9:N:9076:HOH:O	2.07	0.54
5:F:282:LEU:HD12	5:F:284:ARG:O	2.08	0.54
3:D:992:ILE:O	3:D:995:LEU:HB3	2.08	0.54
2:C:53:PRO:HA	9:C:1326:HOH:O	2.08	0.54
2:M:144:PRO:HA	2:M:163:ILE:CG1	2.37	0.54
1:A:29:GLU:HB2	1:A:32:PHE:CD1	2.43	0.54
1:A:30:ARG:HG2	9:D:2211:HOH:O	2.08	0.54
3:D:465:LEU:HG	9:D:9464:HOH:O	2.08	0.54
3:D:525:ARG:HB2	3:D:541:ASN:HD21	1.73	0.54
2:C:359:MET:HB2	9:C:1415:HOH:O	2.07	0.54
2:M:853:LEU:HB3	2:M:858:MET:HE3	1.88	0.54
2:C:290:LEU:HB2	9:C:1479:HOH:O	2.08	0.54
3:D:1057:VAL:HG13	3:D:1069:GLU:HB3	1.89	0.54
3:D:478:LEU:HD13	3:D:1388:ARG:NH2	2.22	0.54
3:D:1487:VAL:CG1	3:D:1492:LEU:HG	2.38	0.54
3:N:1459:LEU:HD13	3:N:1465:ASN:ND2	2.23	0.54
3:D:519:VAL:HA	3:D:544:TYR:OH	2.08	0.54
3:N:961:LYS:HG3	3:N:962:GLN:OE1	2.08	0.54
3:D:668:PRO:HD2	3:D:672:ALA:CB	2.38	0.54
3:N:994:GLN:HA	3:N:994:GLN:HE21	1.72	0.54
3:D:742:GLY:HA3	9:D:2453:HOH:O	2.07	0.54
1:K:63:HIS:HD2	1:K:65:PHE:H	1.56	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1077:ALA:HA	9:N:9068:HOH:O	2.06	0.54
2:C:630:ARG:HH22	2:C:706:GLU:C	2.12	0.54
2:C:791:ARG:O	2:C:793:PRO:HD3	2.08	0.54
3:N:1097:LYS:HA	9:N:9338:HOH:O	2.06	0.54
2:C:775:ARG:NH2	2:C:782:ALA:HB1	2.11	0.54
2:C:176:VAL:HG12	2:C:182:VAL:HG13	1.89	0.54
3:D:525:ARG:HA	3:D:538:SER:CB	2.38	0.54
2:C:431:HIS:CD2	2:C:433:THR:H	2.25	0.54
2:C:774:LEU:HG	9:C:1519:HOH:O	2.08	0.54
2:M:976:ASP:HB2	2:M:979:THR:HG22	1.89	0.54
3:N:1018:ASN:O	3:N:1022:VAL:HG23	2.08	0.54
3:N:127:LEU:HD11	3:N:461:ILE:HD11	1.90	0.54
3:N:1291:SER:HB2	9:N:9921:HOH:O	2.07	0.54
5:P:264:MET:HA	9:P:5687:HOH:O	2.08	0.54
1:L:133:GLU:HB2	9:L:5764:HOH:O	2.08	0.54
2:M:650:ARG:CG	2:M:653:ASP:HB2	2.37	0.54
2:C:513:VAL:HG23	9:C:1298:HOH:O	2.06	0.54
2:M:834:GLN:HG2	9:M:1208:HOH:O	2.07	0.54
2:M:399:ASN:HB3	2:M:568:ALA:O	2.07	0.54
1:L:185:ARG:HA	9:L:5714:HOH:O	2.08	0.54
3:D:929:ARG:HH11	3:D:929:ARG:HG3	1.73	0.54
5:F:138:SER:HB2	5:F:140:ARG:HG2	1.90	0.54
2:C:91:GLN:OE1	2:C:117:HIS:HB3	2.07	0.54
2:C:198:ARG:HH21	2:C:204:GLN:CG	2.21	0.54
1:K:20:TYR:CD2	1:K:21:GLY:N	2.76	0.54
2:M:998:TYR:CE2	2:M:1000:MET:HG2	2.42	0.54
2:M:601:GLY:O	2:M:648:ARG:HA	2.08	0.54
5:P:299:TRP:HH2	5:P:307:THR:HG21	1.73	0.54
2:C:410:ILE:HB	9:C:1130:HOH:O	2.08	0.54
1:L:204:SER:HA	9:L:3964:HOH:O	2.08	0.54
3:N:758:GLU:HG2	4:O:20:THR:HG23	1.90	0.54
3:D:391:ALA:HB3	9:D:9395:HOH:O	2.07	0.54
2:C:682:TYR:HB3	2:C:689:VAL:HG22	1.89	0.54
3:N:131:LYS:HA	3:N:456:MET:HG3	1.89	0.53
2:C:504:GLU:CD	2:C:509:ALA:HB2	2.29	0.53
2:C:1086:ARG:HD2	3:D:88:TYR:OH	2.08	0.53
2:M:971:LYS:HA	2:M:988:VAL:HA	1.90	0.53
1:L:143:ARG:HH11	1:L:158:ILE:HG23	1.73	0.53
3:N:1065:LEU:HD13	3:N:1069:GLU:HB2	1.89	0.53
3:N:1459:LEU:HD23	3:N:1464:GLU:HG3	1.90	0.53
1:L:127:LEU:HD11	9:L:4237:HOH:O	2.07	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:525:SER:OG	2:M:527:GLU:HG3	2.07	0.53
5:P:153:PRO:HG2	5:P:154:LYS:H	1.73	0.53
2:M:998:TYR:CZ	2:M:1000:MET:HA	2.44	0.53
3:N:120:ALA:HB2	9:N:9789:HOH:O	2.08	0.53
2:M:408:ARG:NH1	2:M:542:VAL:HG22	2.23	0.53
1:L:88:ARG:HH11	1:L:88:ARG:HG2	1.72	0.53
3:N:969:ARG:O	3:N:972:LEU:HB3	2.07	0.53
2:M:197:LEU:HD22	2:M:202:TYR:HD2	1.72	0.53
3:D:1434:TRP:CZ3	3:D:1457:ASP:HB2	2.43	0.53
2:C:193:LEU:HD12	9:C:1346:HOH:O	2.08	0.53
2:M:660:ALA:HB1	2:M:667:ALA:O	2.08	0.53
2:C:308:ARG:HD2	9:C:1789:HOH:O	2.07	0.53
3:D:1310:ARG:NE	3:D:1310:ARG:H	2.06	0.53
3:N:116:LEU:HD23	9:N:9142:HOH:O	2.08	0.53
3:D:601:ARG:HD2	5:F:328:PHE:CE1	2.43	0.53
2:M:975:TYR:HA	2:M:982:PRO:HA	1.89	0.53
3:N:1314:LYS:HE2	3:N:1317:ASP:OD2	2.07	0.53
3:D:191:LEU:HB3	3:D:195:VAL:HG21	1.91	0.53
3:D:720:LEU:CD1	3:D:720:LEU:H	2.18	0.53
2:M:943:VAL:HG11	2:M:973:VAL:HG22	1.90	0.53
2:C:430:VAL:HG11	3:D:1074:SER:HB2	1.89	0.53
5:F:396:ARG:HG2	9:F:810:HOH:O	2.08	0.53
3:N:1465:ASN:ND2	3:N:1470:ARG:HD3	2.23	0.53
1:B:143:ARG:HD3	1:B:158:ILE:HG21	1.90	0.53
2:M:678:PRO:HA	2:M:683:ASN:HD21	1.73	0.53
1:K:225:PHE:HE1	1:L:25:LEU:HD22	1.72	0.53
2:M:612:VAL:HG22	2:M:622:GLU:HA	1.89	0.53
2:M:542:VAL:HG23	2:M:543:ASN:H	1.73	0.53
3:N:969:ARG:HD2	9:N:9270:HOH:O	2.08	0.53
3:N:787:LEU:HD21	3:N:947:ILE:CD1	2.38	0.53
5:P:201:LYS:HE2	9:P:5773:HOH:O	2.06	0.53
1:A:36:LEU:O	1:A:40:LEU:HG	2.07	0.53
3:N:1112:CYS:HB2	3:N:1195:GLN:CD	2.29	0.53
1:A:95:GLN:CA	1:A:146:ARG:HH12	2.16	0.53
3:N:52:PRO:CG	3:N:80:VAL:HG22	2.39	0.53
3:N:54:LYS:HG3	3:N:57:GLU:HB3	1.90	0.53
2:C:1060:ILE:HD12	2:C:1063:ARG:NH1	2.23	0.53
2:C:944:LEU:HD11	2:C:963:LEU:HD21	1.89	0.53
3:D:1047:LYS:HB3	3:D:1048:PRO:CD	2.39	0.53
2:C:874:LEU:HD23	3:D:1023:MET:SD	2.49	0.53
3:N:1485:GLN:NE2	4:O:80:VAL:H	2.03	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:153:LEU:HD12	3:D:154:THR:H	1.72	0.53
1:L:20:TYR:HE2	1:L:198:ARG:HB3	1.73	0.53
2:C:668:LEU:HD12	2:C:668:LEU:N	2.24	0.53
4:E:72:ARG:HG2	4:E:72:ARG:HH11	1.72	0.53
3:D:662:GLU:CD	3:D:669:ASN:HA	2.28	0.53
3:N:1003:VAL:O	3:N:1007:VAL:HG13	2.07	0.53
3:N:957:PRO:HB3	3:N:959:GLU:OE1	2.08	0.53
5:P:256:ARG:HD2	9:P:3830:HOH:O	2.07	0.53
1:L:227:ASN:H	1:L:227:ASN:ND2	2.06	0.53
3:D:1396:GLU:O	3:D:1400:VAL:HG23	2.08	0.53
5:F:102:LEU:O	5:F:106:VAL:HG23	2.08	0.53
2:C:780:GLU:HG3	2:C:781:LYS:H	1.72	0.53
2:M:254:VAL:HG11	9:M:1618:HOH:O	2.08	0.53
3:D:566:ILE:HG22	5:F:214:GLN:HE22	1.74	0.53
9:K:6352:HOH:O	1:L:155:LYS:HD2	2.07	0.53
2:C:282:GLY:N	2:C:308:ARG:NH2	2.55	0.53
3:N:1283:ILE:HG23	3:N:1290:LEU:HD21	1.90	0.53
3:D:183:GLU:HA	3:D:186:VAL:HG12	1.91	0.53
3:D:181:ASP:O	3:D:185:VAL:HG23	2.09	0.53
2:C:341:THR:HG23	2:C:345:ARG:HH21	1.74	0.53
3:N:754:PHE:CZ	4:O:21:VAL:HA	2.43	0.53
5:P:122:LEU:HD23	9:P:4172:HOH:O	2.07	0.53
2:M:943:VAL:CG2	2:M:985:GLY:H	2.19	0.53
1:B:94:LEU:HD11	1:B:119:ASP:HB3	1.90	0.53
2:C:1031:ARG:HH11	2:C:1031:ARG:HG3	1.74	0.53
2:M:815:LEU:HD21	2:M:820:ARG:O	2.07	0.53
3:N:957:PRO:HG3	3:N:1007:VAL:HA	1.90	0.53
1:K:8:ALA:HA	9:K:4167:HOH:O	2.08	0.53
2:M:798:GLY:H	2:M:827:VAL:HG11	1.74	0.53
3:N:1110:ALA:HB1	9:N:9543:HOH:O	2.08	0.53
1:A:94:LEU:HD11	1:A:119:ASP:HB3	1.89	0.53
2:M:266:ARG:HB2	9:M:1427:HOH:O	2.07	0.53
3:D:526:PRO:O	3:D:537:THR:HA	2.08	0.53
5:F:243:ILE:O	5:F:247:ILE:HG13	2.09	0.53
3:D:1310:ARG:HG2	3:D:1327:ARG:HB3	1.90	0.53
3:N:12:LEU:HD22	3:N:511:TRP:CB	2.38	0.53
3:D:710:ARG:HD2	3:D:772:PRO:HG2	1.89	0.53
5:P:363:GLU:HA	5:P:367:MET:HG2	1.90	0.53
1:B:57:TYR:CE1	1:B:163:ASN:HB2	2.39	0.53
5:P:142:ARG:HG2	9:P:4970:HOH:O	2.07	0.53
3:D:1147:ARG:O	3:D:1166:LEU:HD23	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1045:MET:HB3	3:D:1072:ILE:HG22	1.89	0.53
2:M:879:ARG:CZ	3:N:1029:ARG:HH12	2.21	0.53
2:C:113:VAL:HG22	9:C:1833:HOH:O	2.07	0.53
3:D:551:ASN:O	3:D:555:LYS:HG3	2.09	0.53
2:M:1034:GLU:HA	2:M:1037:VAL:HG23	1.90	0.53
1:K:39:PRO:O	1:K:43:ILE:HG12	2.08	0.53
2:M:723:THR:HG23	2:M:725:ASP:HB2	1.88	0.53
2:M:137:VAL:HG22	2:M:391:LEU:O	2.09	0.53
1:K:101:LEU:HD21	1:K:113:ASP:HB3	1.88	0.53
3:N:892:ASP:HB3	3:N:895:VAL:CG2	2.39	0.53
3:N:172:PRO:HD2	3:N:389:GLU:O	2.08	0.53
2:M:331:ARG:CZ	2:M:427:VAL:HG13	2.39	0.53
1:L:57:TYR:CE2	1:L:161:ARG:HG2	2.43	0.53
2:C:1090:LYS:HE3	3:D:88:TYR:O	2.08	0.53
3:D:168:THR:HA	9:D:9020:HOH:O	2.07	0.53
5:P:164:LYS:HG2	9:P:5668:HOH:O	2.08	0.53
3:D:1087:ARG:HG2	9:D:9918:HOH:O	2.08	0.53
1:L:65:PHE:CD1	3:N:813:LEU:HD22	2.38	0.53
1:K:54:THR:CG2	1:K:158:ILE:HG13	2.38	0.53
2:C:557:ARG:HB2	9:C:1189:HOH:O	2.08	0.53
3:D:744:GLN:HB3	9:D:9834:HOH:O	2.08	0.53
2:M:460:ARG:HD2	2:M:485:TYR:CD2	2.43	0.53
2:C:369:PRO:HG2	9:F:698:HOH:O	2.09	0.53
5:F:299:TRP:CE3	5:F:303:ARG:HD3	2.44	0.53
2:M:380:ALA:O	2:M:384:GLU:HB2	2.09	0.53
2:M:881:ASN:N	2:M:881:ASN:ND2	2.55	0.53
1:B:47:SER:O	1:B:49:PRO:N	2.41	0.53
3:N:1235:GLN:HA	9:N:9533:HOH:O	2.08	0.53
3:D:473:LEU:HD21	3:D:495:ARG:CZ	2.39	0.53
3:N:130:SER:HB3	3:N:132:TYR:CE1	2.44	0.53
2:M:163:ILE:HB	2:M:171:TRP:CH2	2.44	0.53
2:M:449:ILE:HG12	9:M:1213:HOH:O	2.09	0.53
1:B:170:VAL:HG22	9:B:364:HOH:O	2.07	0.53
3:N:58:CYS:HA	3:N:78:VAL:HG11	1.91	0.53
3:N:18:ILE:HG23	3:N:518:PRO:CG	2.37	0.53
3:D:1209:LEU:HD23	3:D:1210:SER:N	2.23	0.53
5:F:81:VAL:O	5:F:85:LEU:HG	2.09	0.53
2:M:926:PHE:CE2	2:M:960:GLU:HG3	2.41	0.53
1:A:156:HIS:CD2	1:A:157:GLY:H	2.26	0.53
1:A:205:VAL:HG23	1:A:206:THR:N	2.24	0.53
3:N:207:PHE:CB	3:N:208:PRO:HD2	2.34	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:141:ILE:HD13	3:D:450:TYR:H	1.73	0.53
2:M:874:LEU:HD13	3:N:783:ARG:HB2	1.90	0.53
3:N:488:ARG:HB3	3:N:488:ARG:NH1	2.24	0.53
2:M:748:GLU:HA	2:M:799:ILE:HG22	1.90	0.53
1:L:110:LYS:HD2	1:L:112:ARG:HH12	1.74	0.53
1:L:59:GLU:HG3	1:L:139:ASN:ND2	2.23	0.53
2:C:141:HIS:HB3	2:C:418:LEU:HB3	1.91	0.53
2:M:881:ASN:H	2:M:881:ASN:ND2	2.06	0.53
2:C:663:ASN:N	9:C:2008:HOH:O	2.40	0.53
3:D:1239:ARG:HA	9:D:2088:HOH:O	2.08	0.53
3:N:822:ALA:HB2	9:N:9137:HOH:O	2.08	0.53
5:F:226:LYS:HE3	9:F:490:HOH:O	2.07	0.53
4:E:40:LEU:HD22	4:E:40:LEU:O	2.09	0.53
2:M:241:LEU:HD23	9:M:1478:HOH:O	2.08	0.53
3:N:172:PRO:HB2	9:N:9436:HOH:O	2.08	0.53
2:M:1059:ASP:CG	2:M:1062:GLY:HA3	2.29	0.53
2:C:842:ARG:HH21	2:C:887:GLU:CD	2.12	0.53
3:N:77:GLY:O	3:N:78:VAL:HG23	2.09	0.53
2:C:304:LEU:HD23	2:C:305:PRO:HD3	1.90	0.53
1:L:95:GLN:N	1:L:95:GLN:HE21	2.06	0.53
3:D:567:ILE:HG22	3:D:571:LYS:NZ	2.23	0.53
2:M:773:LEU:HG	2:M:777:ILE:HD11	1.91	0.53
2:M:569:VAL:HG12	2:M:996:LYS:O	2.09	0.53
2:C:874:LEU:HD21	3:D:787:LEU:HD22	1.91	0.53
4:E:54:LEU:O	4:E:54:LEU:HD23	2.09	0.53
1:L:221:HIS:HA	1:L:224:TYR:CD2	2.44	0.53
3:D:669:ASN:OD1	5:F:349:LEU:HD11	2.09	0.53
3:D:957:PRO:HG3	3:D:1007:VAL:HA	1.91	0.53
1:L:176:ARG:HH22	3:N:884:ARG:HD3	1.73	0.53
1:L:100:LEU:HB2	1:L:115:LEU:HD11	1.91	0.53
1:B:76:VAL:HA	1:B:79:ILE:HG12	1.90	0.53
2:C:1020:PRO:O	3:D:622:ARG:HD2	2.09	0.53
3:D:1175:ILE:O	3:D:1179:GLU:HG3	2.09	0.53
2:M:148:PHE:CZ	2:M:281:LEU:HD13	2.44	0.53
2:M:282:GLY:HA2	2:M:308:ARG:HH22	1.73	0.53
3:N:1432:LYS:CD	3:N:1433:SER:H	2.20	0.53
2:C:22:GLN:NE2	2:C:336:VAL:HG21	2.24	0.53
2:M:626:ARG:HB2	2:M:639:GLN:NE2	2.12	0.53
3:D:1192:LEU:HD21	3:D:1372:VAL:HG13	1.90	0.53
3:D:502:PHE:CE1	3:D:509:PRO:HB3	2.44	0.53
2:C:302:VAL:O	2:C:306:THR:HG23	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:41:ASN:HB3	9:C:1171:HOH:O	2.09	0.53
2:M:987:ILE:HG23	3:N:948:THR:HG21	1.90	0.53
3:D:97:THR:CG2	3:D:571:LYS:HD3	2.37	0.53
2:C:163:ILE:HD12	9:C:1850:HOH:O	2.09	0.53
3:N:836:VAL:HA	3:N:839:LEU:HB2	1.91	0.53
2:C:670:GLN:O	2:C:672:VAL:HG12	2.09	0.53
1:B:83:LYS:HE2	1:B:168:ASP:HB2	1.89	0.53
2:M:1040:LEU:HG	2:M:1045:ALA:CB	2.39	0.53
3:N:583:ASP:HA	3:N:602:SER:HB2	1.91	0.53
2:C:266:ARG:HB2	9:C:1885:HOH:O	2.09	0.53
2:C:25:SER:HB2	2:C:335:THR:HB	1.90	0.53
5:P:117:SER:OG	5:P:124:PRO:HG3	2.09	0.53
2:M:890:LEU:HA	2:M:914:ILE:CD1	2.38	0.53
1:A:182:GLU:HB2	9:A:512:HOH:O	2.09	0.53
1:K:216:GLU:O	1:K:220:GLU:HG3	2.09	0.53
2:M:144:PRO:HB2	2:M:267:TYR:HE1	1.74	0.53
2:M:172:ILE:HG23	2:M:184:MET:CE	2.39	0.53
3:D:1361:VAL:HG23	9:D:9147:HOH:O	2.09	0.53
2:M:428:ARG:HH21	2:M:451:LEU:HD11	1.73	0.53
3:N:30:GLU:HB3	3:N:40:GLU:CB	2.39	0.53
3:N:1281:VAL:HG21	3:N:1313:VAL:HG21	1.90	0.53
5:F:163:LEU:HD22	5:F:174:LEU:HG	1.91	0.53
2:M:674:VAL:HG21	2:M:871:LEU:CD1	2.39	0.53
2:M:789:SER:O	2:M:791:ARG:HG2	2.09	0.53
2:M:52:PHE:HA	9:M:1741:HOH:O	2.09	0.53
3:D:853:VAL:HG22	3:D:858:VAL:HG23	1.91	0.53
1:K:198:ARG:HB2	1:K:200:TRP:CH2	2.44	0.53
3:D:1132:LEU:HD23	9:D:2203:HOH:O	2.09	0.53
3:D:1044:LEU:HA	9:D:9902:HOH:O	2.09	0.53
3:D:1129:THR:HG23	3:D:1130:ARG:H	1.74	0.53
3:D:1333:HIS:O	3:D:1336:LEU:HB3	2.09	0.53
3:D:1217:ILE:HD12	3:D:1480:PHE:HE2	1.74	0.53
5:P:261:PRO:O	5:P:265:VAL:HG23	2.09	0.53
5:F:207:LEU:HB3	5:F:212:LEU:HD12	1.91	0.53
1:A:106:PRO:HB3	9:A:500:HOH:O	2.08	0.53
2:M:706:GLU:HB3	2:M:708:TYR:CE1	2.43	0.53
4:E:53:GLY:HA3	9:E:196:HOH:O	2.08	0.53
2:C:534:VAL:HB	2:C:538:GLN:OE1	2.08	0.52
3:N:171:LEU:HD11	9:N:9804:HOH:O	2.08	0.52
3:N:562:ALA:HB1	3:N:567:ILE:CD1	2.38	0.52
3:D:18:ILE:HG23	3:D:518:PRO:CG	2.35	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:396:VAL:CG2	3:D:447:VAL:HB	2.38	0.52
4:E:63:TRP:O	4:E:67:GLU:HG3	2.08	0.52
3:D:455:ARG:HA	9:D:9353:HOH:O	2.09	0.52
2:C:137:VAL:O	2:C:391:LEU:HD21	2.09	0.52
2:M:71:TYR:HD2	2:M:71:TYR:H	1.57	0.52
2:C:625:LEU:HD13	2:C:639:GLN:O	2.10	0.52
2:M:774:LEU:HB2	9:M:2065:HOH:O	2.08	0.52
2:C:679:PHE:CE2	2:C:853:LEU:HD21	2.45	0.52
3:N:1220:ALA:HB1	3:N:1223:ILE:CD1	2.40	0.52
2:C:580:MET:SD	2:C:584:GLU:HG3	2.49	0.52
2:C:142:ARG:HB2	9:C:1317:HOH:O	2.08	0.52
3:N:661:MET:HA	3:N:666:ILE:CD1	2.40	0.52
5:F:94:LEU:HD23	5:F:96:LEU:N	2.24	0.52
2:M:577:PRO:HG3	2:M:993:PHE:CE1	2.44	0.52
5:F:278:LEU:CB	5:F:286:PRO:HG2	2.40	0.52
2:C:848:VAL:HG23	3:D:740:PHE:O	2.09	0.52
2:C:6:PHE:CE2	2:C:913:GLU:HB3	2.45	0.52
3:N:149:LYS:HD3	9:N:9623:HOH:O	2.09	0.52
3:D:1334:GLN:HG2	9:D:9604:HOH:O	2.09	0.52
3:N:563:PRO:O	3:N:567:ILE:HG13	2.09	0.52
3:D:119:SER:CB	3:D:123:LEU:HB2	2.40	0.52
3:D:148:GLU:HA	9:D:9078:HOH:O	2.09	0.52
3:D:434:ARG:HB2	3:D:447:VAL:HG13	1.90	0.52
5:P:129:GLU:HB3	5:P:142:ARG:HH21	1.74	0.52
2:C:643:VAL:HG13	2:C:647:GLN:CD	2.29	0.52
3:D:699:VAL:HG21	3:D:760:ARG:HB3	1.90	0.52
2:C:339:LEU:HB3	2:C:385:PHE:HZ	1.74	0.52
3:D:781:PRO:HA	3:D:785:ILE:HD12	1.90	0.52
2:C:1004:LYS:HB2	9:C:1264:HOH:O	2.09	0.52
2:C:549:PHE:HB3	2:C:552:HIS:HD2	1.74	0.52
3:N:838:ARG:HD3	3:N:874:GLU:HG2	1.92	0.52
2:C:902:ILE:O	2:C:904:PRO:HD3	2.09	0.52
2:M:474:VAL:HG23	2:M:478:VAL:O	2.09	0.52
3:D:1205:TYR:HE1	3:D:1221:VAL:HG13	1.74	0.52
2:M:724:ARG:CG	2:M:740:GLU:HA	2.40	0.52
3:N:795:VAL:CG1	3:N:863:VAL:HG13	2.38	0.52
1:L:27:PRO:O	1:L:28:LEU:HD23	2.09	0.52
2:M:524:VAL:HG22	2:M:528:GLU:HG3	1.90	0.52
3:N:984:THR:HG23	3:N:986:ARG:H	1.74	0.52
1:A:101:LEU:HD21	1:A:113:ASP:HB3	1.92	0.52
3:D:1295:GLU:HB3	3:D:1300:SER:CB	2.39	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:198:ARG:HB3	9:M:2063:HOH:O	2.10	0.52
1:K:91:ASN:OD1	1:K:92:PRO:HD2	2.09	0.52
5:F:245:GLN:HA	9:F:471:HOH:O	2.09	0.52
3:D:1367:HIS:O	3:D:1371:VAL:HG23	2.08	0.52
2:M:242:LEU:HB3	9:M:1173:HOH:O	2.10	0.52
2:C:470:PRO:HB3	2:C:485:TYR:CE1	2.44	0.52
3:D:197:SER:CB	3:D:203:ALA:HB3	2.27	0.52
1:A:14:ARG:HH22	1:A:24:VAL:HG23	1.72	0.52
5:P:134:LYS:HG3	5:P:178:ARG:NH2	2.25	0.52
3:D:520:LEU:HD23	3:D:540:LEU:HD22	1.90	0.52
2:M:666:LEU:HD12	2:M:667:ALA:H	1.74	0.52
2:C:1089:VAL:O	2:C:1093:GLN:HG3	2.09	0.52
5:F:404:ALA:O	5:F:408:LEU:HD23	2.08	0.52
2:M:274:ARG:CD	2:M:285:LEU:HD22	2.36	0.52
1:A:222:LEU:HD12	1:B:215:VAL:CB	2.36	0.52
3:D:1068:LEU:O	3:D:1072:ILE:HG12	2.10	0.52
2:M:52:PHE:CE1	2:M:66:LEU:HG	2.45	0.52
2:M:18:LEU:HB2	2:M:590:ASP:HB3	1.91	0.52
3:D:809:PRO:O	3:D:812:ALA:HB3	2.09	0.52
3:D:783:ARG:HE	3:D:1029:ARG:NE	2.07	0.52
3:N:843:PHE:HE1	3:N:864:VAL:HG11	1.73	0.52
3:N:1272:ALA:CA	3:N:1326:THR:HB	2.37	0.52
3:N:1489:GLN:O	3:N:1493:LYS:HG2	2.08	0.52
2:C:275:TYR:HA	9:C:1202:HOH:O	2.09	0.52
1:A:18:ARG:HH12	1:A:88:ARG:CZ	2.22	0.52
1:A:123:MET:C	1:A:125:PRO:HD3	2.29	0.52
3:D:926:LYS:HE2	9:D:9035:HOH:O	2.08	0.52
1:L:115:LEU:O	1:L:115:LEU:HD12	2.10	0.52
1:L:104:GLU:OE1	1:L:137:ARG:HG3	2.09	0.52
5:F:102:LEU:HD12	5:F:187:LEU:HG	1.91	0.52
3:D:1286:THR:HG22	9:D:9077:HOH:O	2.09	0.52
2:M:310:LEU:HD12	2:M:313:LEU:CD2	2.39	0.52
1:A:41:ARG:O	1:A:45:LEU:HD12	2.10	0.52
3:N:421:LEU:HD12	3:N:435:VAL:HG11	1.90	0.52
3:N:422:ALA:CB	5:P:178:ARG:HH12	2.17	0.52
3:N:161:LEU:HD21	9:N:9457:HOH:O	2.10	0.52
5:F:192:LEU:O	5:F:192:LEU:HD23	2.09	0.52
2:C:1060:ILE:HG23	2:C:1061:GLU:H	1.74	0.52
3:D:601:ARG:HD2	5:F:328:PHE:HE1	1.75	0.52
2:C:1098:ASP:N	9:C:1791:HOH:O	2.42	0.52
3:D:444:VAL:HG11	9:D:9854:HOH:O	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:160:ASP:HA	5:F:163:LEU:HD12	1.91	0.52
3:D:1234:THR:HG21	9:D:2326:HOH:O	2.09	0.52
3:N:1147:ARG:CB	3:N:1188:VAL:HG21	2.38	0.52
3:N:555:LYS:HA	3:N:558:LEU:HD12	1.92	0.52
3:D:553:ARG:NH1	5:F:211:ASP:HA	2.24	0.52
2:C:137:VAL:CG2	2:C:391:LEU:HG	2.38	0.52
2:C:1034:GLU:HA	2:C:1037:VAL:HG23	1.91	0.52
3:D:619:LEU:HB2	9:D:9123:HOH:O	2.09	0.52
3:D:697:GLY:HA2	3:D:717:GLN:OE1	2.08	0.52
1:B:102:LYS:HE2	1:B:104:GLU:CD	2.30	0.52
3:D:880:ILE:O	3:D:883:ALA:HB3	2.09	0.52
2:C:481:ASP:HA	9:C:1844:HOH:O	2.10	0.52
3:D:724:GLN:HG3	3:D:725:SER:N	2.24	0.52
2:M:92:ALA:HB2	2:M:120:LEU:HD21	1.92	0.52
5:F:399:GLN:HG3	9:F:772:HOH:O	2.09	0.52
1:A:229:GLN:HG3	9:B:611:HOH:O	2.10	0.52
2:C:1052:MET:SD	2:C:1056:LYS:HD3	2.49	0.52
2:C:633:GLN:NE2	2:C:633:GLN:H	2.07	0.52
2:M:154:ARG:HG3	9:M:1568:HOH:O	2.08	0.52
2:C:162:ILE:HB	2:C:172:ILE:HB	1.91	0.52
2:C:442:GLU:HB3	2:C:453:THR:OG1	2.08	0.52
2:M:9:ILE:HD11	2:M:537:LYS:NZ	2.25	0.52
3:D:1496:GLU:HA	3:D:1499:ARG:NE	2.24	0.52
3:D:165:LYS:CB	3:D:395:VAL:HG11	2.40	0.52
2:C:428:ARG:HG3	2:C:428:ARG:NH1	2.24	0.52
5:P:81:VAL:O	5:P:85:LEU:HG	2.10	0.52
2:C:924:VAL:HG21	9:C:2023:HOH:O	2.09	0.52
5:P:274:THR:O	5:P:278:LEU:HG	2.09	0.52
2:M:167:LYS:HD2	2:M:168:ARG:NH1	2.25	0.52
1:B:29:GLU:HG3	9:B:336:HOH:O	2.08	0.52
2:C:572:ILE:CG2	2:C:703:ILE:HD13	2.39	0.52
3:N:422:ALA:O	3:N:427:VAL:HG21	2.10	0.52
1:B:84:GLU:HB3	1:B:127:LEU:HD21	1.92	0.52
5:P:363:GLU:HA	5:P:367:MET:HE2	1.92	0.52
5:F:88:ILE:HD13	5:F:193:ARG:HD3	1.90	0.52
3:D:434:ARG:HB2	3:D:447:VAL:CG2	2.40	0.52
5:P:138:SER:O	5:P:141:VAL:HG12	2.09	0.52
2:C:884:GLN:HG2	2:C:885:ILE:N	2.23	0.52
5:P:291:ILE:HG23	5:P:304:VAL:HG21	1.90	0.52
3:N:1129:THR:O	3:N:1130:ARG:HD2	2.10	0.52
3:D:984:THR:HG22	3:D:987:GLU:HB2	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:932:GLU:HG2	9:M:1541:HOH:O	2.08	0.52
3:N:907:GLU:HG2	3:N:908:LYS:H	1.74	0.52
3:N:1324:PRO:HG3	3:N:1330:ILE:HD11	1.92	0.52
4:E:42:PRO:HG2	9:E:146:HOH:O	2.09	0.52
3:D:770:LEU:HG	3:D:919:PHE:CE1	2.45	0.52
3:D:1040:GLY:O	3:D:1060:SER:HB3	2.10	0.52
2:M:182:VAL:CG1	2:M:193:LEU:HD13	2.39	0.52
2:M:232:GLU:O	2:M:235:LEU:HB2	2.09	0.52
2:C:397:GLU:H	2:C:633:GLN:NE2	2.07	0.52
3:N:571:LYS:NZ	3:N:571:LYS:HB2	2.24	0.52
3:D:1463:LYS:O	3:D:1467:ILE:HD12	2.10	0.52
5:F:365:GLU:HG2	5:F:397:ILE:HA	1.92	0.52
5:F:86:HIS:HB3	9:F:802:HOH:O	2.10	0.52
1:B:91:ASN:H	1:B:94:LEU:HD12	1.75	0.52
1:L:143:ARG:NH1	1:L:158:ILE:HG23	2.24	0.52
2:C:288:ARG:HD3	9:C:1496:HOH:O	2.09	0.52
3:D:1341:PRO:HD2	3:D:1342:GLU:OE2	2.09	0.52
3:N:1441:GLN:OE1	3:N:1442:ASN:HB2	2.10	0.52
2:C:665:PHE:N	9:C:2008:HOH:O	2.41	0.52
3:N:787:LEU:HD11	3:N:947:ILE:HG12	1.91	0.52
1:A:216:GLU:O	1:A:220:GLU:HG3	2.09	0.52
3:N:774:SER:C	3:N:776:GLU:H	2.13	0.52
2:C:74:GLY:O	2:C:76:PRO:HD3	2.09	0.52
3:N:171:LEU:HD13	3:N:389:GLU:C	2.29	0.52
3:N:699:VAL:HB	3:N:716:PHE:O	2.10	0.52
3:D:1443:THR:O	3:D:1447:LEU:HD13	2.10	0.52
5:P:215:GLU:HA	9:P:6496:HOH:O	2.10	0.52
2:M:428:ARG:HD3	2:M:449:ILE:CG2	2.40	0.52
3:D:26:VAL:N	9:D:9002:HOH:O	2.42	0.52
2:M:578:VAL:HG13	2:M:671:ASN:ND2	2.25	0.52
5:F:124:PRO:O	5:F:128:ARG:HB2	2.10	0.52
2:M:925:TYR:HE1	2:M:929:ARG:HH11	1.57	0.52
3:D:131:LYS:HB3	3:D:456:MET:HE2	1.92	0.52
2:M:675:ALA:HB2	2:M:867:VAL:HG11	1.90	0.52
5:F:190:ALA:HB1	9:F:704:HOH:O	2.10	0.52
3:D:704:ARG:NH1	3:D:738:ALA:HA	2.25	0.52
2:C:838:LYS:HD2	2:C:846:LYS:HZ1	1.74	0.52
2:C:669:GLY:HA3	2:C:995:MET:HA	1.91	0.52
3:D:1109:GLU:HG2	3:D:1202:GLN:H	1.75	0.52
3:N:676:MET:CE	3:N:684:LYS:HD2	2.40	0.52
3:N:416:ALA:HA	3:N:442:ASN:ND2	2.24	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:63:GLY:HA3	2:C:103:LYS:HE2	1.91	0.52
5:F:225:GLU:HG3	5:F:226:LYS:HG3	1.91	0.52
2:M:61:LYS:HG2	9:M:1592:HOH:O	2.10	0.52
3:D:1385:GLY:HA2	9:D:9072:HOH:O	2.10	0.52
3:D:1369:GLU:O	3:D:1372:VAL:HG12	2.10	0.52
2:C:504:GLU:HG2	2:C:507:ARG:O	2.09	0.52
2:C:56:GLU:OE1	2:C:356:ARG:HD3	2.09	0.52
1:B:26:GLU:HG2	1:B:27:PRO:HA	1.91	0.52
2:M:5:ARG:CB	2:M:902:ILE:HB	2.40	0.52
5:P:111:GLU:O	5:P:115:LYS:HG3	2.08	0.52
2:C:674:VAL:HG23	2:C:869:VAL:O	2.09	0.52
1:A:153:ALA:HA	1:A:156:HIS:NE2	2.24	0.52
1:B:102:LYS:HE2	1:B:104:GLU:OE1	2.10	0.52
2:C:730:SER:O	2:C:734:LEU:HD13	2.09	0.52
3:D:630:VAL:HA	3:D:744:GLN:HG2	1.92	0.52
3:N:148:GLU:CB	3:N:151:GLN:HB3	2.39	0.52
3:N:438:ASP:HA	9:N:9374:HOH:O	2.10	0.52
4:E:58:PRO:HB2	9:E:102:HOH:O	2.08	0.52
3:N:996:TRP:CE3	3:N:999:THR:HG21	2.44	0.52
1:B:226:SER:O	1:B:228:PRO:HD3	2.09	0.52
5:F:253:ASP:HB2	9:F:629:HOH:O	2.09	0.52
2:C:662:GLU:N	9:C:2008:HOH:O	2.42	0.52
3:N:1343:ALA:HB1	9:N:9791:HOH:O	2.09	0.52
1:A:136:GLY:HA3	9:A:360:HOH:O	2.08	0.52
1:A:181:VAL:HG12	9:A:370:HOH:O	2.08	0.52
2:M:208:ALA:HA	2:M:218:VAL:HG22	1.91	0.52
3:N:1395:LEU:HD13	3:N:1396:GLU:N	2.25	0.52
5:P:132:ARG:HE	5:P:184:ARG:NH1	2.07	0.52
5:P:163:LEU:HB3	5:P:174:LEU:HD11	1.91	0.52
3:N:1086:LEU:HD11	6:N:8002:STD:H113	1.92	0.52
3:D:55:ASP:O	3:D:82:LYS:HA	2.09	0.52
3:N:12:LEU:HD23	3:N:13:ALA:H	1.75	0.52
2:C:1063:ARG:O	2:C:1066:ALA:HB3	2.10	0.52
2:C:1033:GLY:O	2:C:1037:VAL:HG23	2.10	0.52
3:D:496:LEU:HD23	3:D:1388:ARG:HG2	1.92	0.52
1:A:132:LEU:HD12	9:A:328:HOH:O	2.10	0.52
3:N:787:LEU:HD21	3:N:947:ILE:HD13	1.91	0.52
3:D:796:ARG:HG3	3:D:828:LYS:HD2	1.92	0.52
3:N:933:ALA:O	3:N:937:TYR:HD1	1.93	0.52
1:K:227:ASN:HD22	1:K:227:ASN:H	1.57	0.52
3:D:1018:ASN:ND2	3:D:1019:PRO:HD2	2.25	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:154:GLU:HB3	9:B:483:HOH:O	2.09	0.52
3:D:1283:ILE:N	3:D:1315:ASP:OD1	2.43	0.52
3:N:132:TYR:HA	9:N:9350:HOH:O	2.09	0.51
2:M:267:TYR:CD1	2:M:272:ALA:HB1	2.45	0.51
1:K:98:THR:HG22	9:K:3937:HOH:O	2.08	0.51
3:N:136:ASP:HB3	3:N:137:PRO:HD3	1.92	0.51
3:D:1481:VAL:HG11	4:E:18:ARG:CA	2.35	0.51
3:D:1326:THR:HA	9:D:9040:HOH:O	2.11	0.51
2:C:1008:ARG:NH1	2:C:1011:GLY:HA3	2.25	0.51
3:D:63:TYR:HB3	3:D:68:PHE:CZ	2.45	0.51
1:A:178:ALA:CB	2:C:864:GLY:H	2.23	0.51
2:C:564:MET:HE2	2:C:846:LYS:HE2	1.92	0.51
3:D:847:ASP:HA	3:D:850:LEU:CD1	2.40	0.51
3:D:530:VAL:HB	3:D:534:ARG:HB2	1.92	0.51
1:L:59:GLU:HG3	1:L:139:ASN:HD22	1.74	0.51
2:C:384:GLU:CD	2:C:388:ARG:HH21	2.14	0.51
1:L:101:LEU:HB3	1:L:140:MET:SD	2.50	0.51
9:N:9551:HOH:O	5:P:258:ILE:HD12	2.10	0.51
1:K:227:ASN:N	1:K:227:ASN:HD22	2.06	0.51
1:B:33:GLY:O	1:B:195:LEU:HD22	2.10	0.51
1:K:159:LYS:HD3	9:K:3711:HOH:O	2.10	0.51
2:M:160:ALA:O	2:M:173:ASP:HA	2.10	0.51
2:M:264:PRO:HB3	2:M:289:THR:HG21	1.91	0.51
2:C:232:GLU:O	2:C:235:LEU:HB2	2.10	0.51
2:M:335:THR:CG2	2:M:461:VAL:HG11	2.40	0.51
3:N:135:LEU:HD11	3:N:139:GLY:HA3	1.92	0.51
2:C:578:VAL:HG11	2:C:991:GLN:CB	2.33	0.51
2:M:704:HIS:HB3	2:M:831:ARG:NE	2.25	0.51
1:L:110:LYS:HD2	1:L:126:ASP:HA	1.90	0.51
3:D:1476:THR:C	3:D:1478:SER:H	2.13	0.51
2:M:129:ILE:HD13	2:M:386:PHE:HB3	1.92	0.51
2:C:204:GLN:HB2	9:C:1650:HOH:O	2.10	0.51
3:D:1335:LEU:CD2	3:D:1344:VAL:HA	2.40	0.51
2:C:441:VAL:CG1	2:C:559:LEU:HA	2.39	0.51
3:N:671:LYS:CE	3:N:674:ARG:HH21	2.24	0.51
5:F:283:GLY:HA2	9:F:586:HOH:O	2.09	0.51
3:D:12:LEU:HD21	3:D:104:PHE:CE1	2.42	0.51
3:N:424:GLY:HA2	3:N:435:VAL:O	2.10	0.51
2:M:335:THR:HG21	2:M:461:VAL:HG11	1.92	0.51
3:D:116:LEU:CD2	3:D:468:LEU:HD11	2.41	0.51
5:F:122:LEU:HD12	9:F:488:HOH:O	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:54:LYS:HB3	9:N:9416:HOH:O	2.09	0.51
2:C:1090:LYS:NZ	3:D:90:MET:HG3	2.22	0.51
5:F:337:HIS:CD2	5:F:337:HIS:N	2.74	0.51
3:D:543:LEU:CD2	3:D:600:LEU:HD12	2.40	0.51
2:C:432:ARG:NH1	3:D:1048:PRO:HD3	2.26	0.51
2:C:498:GLN:NE2	3:D:1068:LEU:HD12	2.25	0.51
3:D:1380:GLU:HG3	3:D:1381:VAL:N	2.25	0.51
2:M:720:GLU:HA	2:M:759:THR:O	2.11	0.51
2:M:526:PRO:HD2	9:M:1644:HOH:O	2.10	0.51
3:N:1492:LEU:HD12	3:N:1493:LYS:NZ	2.24	0.51
1:B:223:THR:HA	9:B:419:HOH:O	2.09	0.51
5:F:295:MET:HB3	5:F:299:TRP:CD1	2.46	0.51
1:A:161:ARG:HG2	9:A:442:HOH:O	2.11	0.51
2:C:141:HIS:CB	2:C:418:LEU:HG	2.40	0.51
5:P:392:VAL:HG21	9:P:3714:HOH:O	2.09	0.51
3:D:1295:GLU:HB3	3:D:1300:SER:OG	2.10	0.51
3:N:601:ARG:NE	3:N:606:ILE:HD13	2.25	0.51
3:N:1237:THR:HB	3:N:1359:GLN:OE1	2.10	0.51
2:C:536:PRO:HB2	2:C:905:ILE:HD13	1.91	0.51
3:D:639:LEU:N	3:D:639:LEU:HD12	2.26	0.51
5:P:325:LYS:HB2	9:P:6651:HOH:O	2.09	0.51
3:N:634:GLY:O	3:N:637:LEU:HB3	2.09	0.51
3:D:1263:PHE:HD2	3:D:1375:MET:HE2	1.75	0.51
2:M:141:HIS:O	2:M:331:ARG:HA	2.10	0.51
2:C:1115:LEU:HD23	3:D:85:VAL:HA	1.92	0.51
2:M:9:ILE:HD11	2:M:537:LYS:HZ3	1.75	0.51
2:M:1016:ILE:HD13	2:M:1016:ILE:N	2.23	0.51
2:M:860:HIS:CD2	2:M:975:TYR:HB2	2.45	0.51
3:D:1432:LYS:HD2	3:D:1433:SER:H	1.75	0.51
3:N:481:MET:HE1	3:N:493:ARG:NH2	2.25	0.51
4:O:47:LYS:HA	4:O:54:LEU:HB3	1.92	0.51
4:O:58:PRO:HB2	9:O:3650:HOH:O	2.10	0.51
5:P:144:ILE:HG23	9:P:4405:HOH:O	2.10	0.51
2:M:837:ASP:OD1	2:M:996:LYS:HE2	2.10	0.51
3:D:1354:LYS:HD3	9:D:9764:HOH:O	2.08	0.51
4:O:84:ARG:HB2	4:O:84:ARG:NH1	2.26	0.51
2:C:110:GLU:HG2	2:C:369:PRO:CB	2.39	0.51
5:F:289:GLU:O	5:F:293:GLU:HG3	2.10	0.51
2:C:140:ILE:HD12	2:C:140:ILE:H	1.76	0.51
3:N:1365:ASP:O	3:N:1369:GLU:HG3	2.10	0.51
9:K:5022:HOH:O	2:M:608:GLY:HA3	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:1073:GLY:HA3	9:M:1801:HOH:O	2.11	0.51
5:P:412:GLU:OE1	5:P:418:LEU:HD13	2.10	0.51
2:M:1082:PRO:HG3	9:M:1191:HOH:O	2.10	0.51
3:N:1481:VAL:CG1	4:O:18:ARG:HE	2.12	0.51
3:D:1372:VAL:HA	3:D:1375:MET:CE	2.40	0.51
4:O:17:TYR:O	4:O:21:VAL:HG23	2.11	0.51
4:E:26:ARG:O	4:E:29:GLN:HG3	2.10	0.51
1:A:156:HIS:HD2	1:A:157:GLY:N	2.08	0.51
1:B:18:ARG:O	1:B:207:PRO:HD3	2.11	0.51
2:C:1032:PHE:HZ	2:C:1040:LEU:HD22	1.75	0.51
2:M:244:PRO:HD3	9:M:1602:HOH:O	2.10	0.51
3:D:704:ARG:CG	3:D:736:PHE:HB3	2.41	0.51
1:A:13:VAL:HG21	9:B:442:HOH:O	2.10	0.51
2:M:157:ARG:HG2	2:M:157:ARG:HH11	1.74	0.51
2:M:1009:SER:OG	3:N:654:LYS:HB3	2.09	0.51
5:P:278:LEU:HB2	5:P:286:PRO:HG2	1.92	0.51
2:C:541:SER:HB2	9:C:1121:HOH:O	2.10	0.51
3:D:1455:LYS:HD3	3:D:1456:LYS:N	2.25	0.51
3:N:1404:ASN:ND2	3:N:1408:ILE:HD12	2.25	0.51
1:A:10:VAL:HG12	1:A:12:THR:HG22	1.92	0.51
5:F:238:TYR:HB2	9:F:612:HOH:O	2.10	0.51
3:N:181:ASP:OD1	3:N:199:LEU:HD12	2.10	0.51
3:D:421:LEU:HD11	3:D:437:VAL:HG22	1.93	0.51
2:C:185:LYS:HG2	2:C:190:LYS:HG2	1.91	0.51
3:N:29:PRO:HA	9:N:9523:HOH:O	2.10	0.51
3:N:1112:CYS:HA	3:N:1195:GLN:HE22	1.76	0.51
2:M:860:HIS:NE2	2:M:975:TYR:HB2	2.26	0.51
3:D:1090:ASP:HA	3:D:1093:TYR:HB2	1.91	0.51
3:D:131:LYS:HG3	3:D:568:ARG:HG2	1.93	0.51
3:D:705:ALA:HB3	3:D:706:PRO:HD3	1.92	0.51
3:N:146:PRO:HB3	9:N:9665:HOH:O	2.11	0.51
2:C:80:GLN:HB3	2:C:84:ARG:HH21	1.75	0.51
3:N:809:PRO:O	3:N:812:ALA:HB3	2.11	0.51
3:D:696:HIS:HB2	4:E:48:MET:HE1	1.93	0.51
2:C:526:PRO:HB3	9:C:1428:HOH:O	2.11	0.51
3:D:955:VAL:HG22	9:D:2109:HOH:O	2.10	0.51
3:D:32:ILE:HG12	3:D:38:LYS:O	2.11	0.51
2:C:975:TYR:HA	2:C:982:PRO:HA	1.91	0.51
2:M:1000:MET:HE1	9:M:1491:HOH:O	2.10	0.51
4:O:85:LEU:HD23	4:O:86:GLN:N	2.25	0.51
3:N:957:PRO:HG2	3:N:1007:VAL:HG12	1.90	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:32:ILE:O	5:P:258:ILE:HG23	2.11	0.51
5:P:256:ARG:NH2	5:P:258:ILE:HB	2.25	0.51
3:D:1031:ASN:HB3	3:D:1034:GLN:CD	2.31	0.51
2:C:897:LEU:HD23	2:C:899:GLN:NE2	2.26	0.51
2:M:176:VAL:C	2:M:178:PRO:HD3	2.31	0.51
2:M:290:LEU:H	2:M:290:LEU:HD23	1.75	0.51
2:M:139:GLN:HB3	2:M:334:ARG:CD	2.41	0.51
3:N:154:THR:HG23	3:N:157:GLU:H	1.76	0.51
3:N:112:ILE:HG22	3:N:512:MET:SD	2.51	0.51
5:F:393:THR:HG22	5:F:394:ARG:H	1.74	0.51
3:N:770:LEU:HD12	3:N:1210:SER:O	2.11	0.51
1:B:77:GLU:HB2	3:D:872:ARG:HH21	1.75	0.51
2:M:68:PHE:HE1	2:M:96:ALA:HB1	1.75	0.51
2:C:704:HIS:HB2	9:C:1879:HOH:O	2.10	0.51
3:N:543:LEU:HD21	3:N:600:LEU:HD12	1.91	0.51
2:C:260:LEU:HA	2:C:291:ALA:CB	2.40	0.51
9:C:1234:HOH:O	5:F:335:ASP:HB3	2.10	0.51
2:C:367:LEU:HA	2:C:371:LYS:CD	2.41	0.51
3:N:1105:ILE:HD11	3:N:1374:GLN:CD	2.31	0.51
3:D:838:ARG:HD3	3:D:874:GLU:HB3	1.92	0.51
2:M:64:LEU:HB2	2:M:359:MET:SD	2.51	0.51
3:N:799:LYS:H	3:N:826:PRO:HG2	1.76	0.51
3:D:656:PHE:HB3	3:D:694:VAL:HG11	1.92	0.51
3:D:669:ASN:HB3	9:D:9017:HOH:O	2.10	0.51
2:M:137:VAL:CG2	2:M:391:LEU:HG	2.40	0.51
4:E:33:HIS:HB2	4:E:37:ASN:ND2	2.25	0.51
3:N:638:LYS:HE3	9:N:9110:HOH:O	2.11	0.51
2:M:1095:LEU:HD23	3:N:582:LEU:HD22	1.93	0.51
1:K:41:ARG:HH11	1:K:177:VAL:HB	1.75	0.51
4:E:13:VAL:HG23	9:E:108:HOH:O	2.11	0.51
2:M:208:ALA:HB1	2:M:218:VAL:HG13	1.93	0.51
2:C:199:VAL:HG21	9:C:1222:HOH:O	2.09	0.51
3:N:65:ARG:HB3	5:P:375:LEU:O	2.11	0.51
3:D:87:ARG:HB3	3:D:523:ASP:CB	2.38	0.51
2:M:1046:ALA:CB	3:N:1476:THR:HB	2.40	0.51
3:D:131:LYS:CE	5:F:83:GLN:HE22	2.24	0.51
3:D:543:LEU:HD21	3:D:600:LEU:HD12	1.91	0.51
3:N:678:GLU:HG3	3:N:679:ARG:HG3	1.93	0.51
1:B:101:LEU:HD12	1:B:114:PHE:CE1	2.45	0.51
2:C:279:GLU:HG3	2:C:280:LYS:N	2.26	0.51
2:C:387:SER:HB2	2:C:388:ARG:HD3	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:628:ARG:HG2	3:N:744:GLN:HE21	1.76	0.51
3:N:1093:TYR:HA	3:N:1096:ARG:NH2	2.25	0.51
2:C:742:VAL:HG12	2:C:743:VAL:N	2.26	0.51
2:M:749:VAL:HG12	2:M:753:ASP:HB2	1.92	0.51
1:B:46:SER:O	1:B:148:VAL:HB	2.10	0.51
3:N:1014:ASN:HA	9:N:9833:HOH:O	2.09	0.51
1:A:58:ILE:HB	1:A:61:VAL:HB	1.92	0.51
3:N:215:TYR:HB3	9:N:9520:HOH:O	2.11	0.51
2:M:1054:THR:CG2	2:M:1079:PRO:HB3	2.26	0.51
5:P:163:LEU:HB3	5:P:174:LEU:CD1	2.41	0.51
3:N:524:LEU:HD23	9:N:9039:HOH:O	2.11	0.51
3:D:969:ARG:O	3:D:972:LEU:HB3	2.11	0.51
5:P:408:LEU:HA	5:P:411:HIS:CE1	2.45	0.51
3:D:186:VAL:HG23	9:D:9609:HOH:O	2.11	0.51
3:D:1066:THR:HG22	3:D:1069:GLU:HG3	1.93	0.51
2:M:470:PRO:HB2	2:M:534:VAL:HG21	1.92	0.51
2:M:516:ARG:HD2	3:N:1068:LEU:HD22	1.92	0.51
1:A:86:VAL:CG1	1:A:124:ASN:HB2	2.41	0.51
1:B:101:LEU:HG	1:B:114:PHE:HA	1.92	0.51
3:D:528:VAL:HG23	3:D:536:ALA:O	2.10	0.51
2:C:358:ARG:HH12	2:C:374:ASN:HB3	1.76	0.51
5:F:262:VAL:HG12	5:F:266:GLU:OE2	2.10	0.51
2:M:479:VAL:HG21	2:M:503:LEU:HD11	1.93	0.51
1:A:161:ARG:HB2	1:A:161:ARG:CZ	2.41	0.51
5:P:95:THR:HB	5:P:96:LEU:HD23	1.93	0.51
1:B:105:GLY:O	1:B:132:LEU:HB3	2.11	0.51
1:A:48:ILE:HG22	1:A:173:PRO:HD2	1.92	0.51
2:C:850:ALA:HA	3:D:632:VAL:HG11	1.92	0.51
2:C:34:VAL:CG1	2:C:38:LYS:HG3	2.41	0.51
5:F:277:GLN:O	5:F:280:GLN:HB3	2.10	0.51
2:M:1080:SER:HB2	9:M:1326:HOH:O	2.11	0.51
2:M:283:ILE:HA	9:M:1764:HOH:O	2.10	0.51
3:N:1266:ARG:O	3:N:1268:PRO:HD3	2.11	0.51
3:N:65:ARG:HG3	3:N:66:GLN:N	2.12	0.51
5:F:404:ALA:HA	9:F:428:HOH:O	2.10	0.51
3:D:179:VAL:HG22	3:D:389:GLU:CG	2.41	0.51
1:L:95:GLN:HA	1:L:146:ARG:HD2	1.92	0.51
3:N:953:ASP:O	3:N:955:VAL:HG23	2.10	0.51
4:O:26:ARG:O	4:O:29:GLN:HG3	2.11	0.51
3:N:681:ARG:HD3	9:N:9087:HOH:O	2.10	0.51
3:D:643:GLY:CA	3:D:727:GLN:HB2	2.41	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1005:MET:CE	3:D:648:MET:HB2	2.41	0.51
3:D:1382:THR:CG2	3:D:1418:LYS:HE3	2.39	0.51
3:D:1354:LYS:HA	9:D:9764:HOH:O	2.10	0.51
2:C:274:ARG:HD3	9:C:2046:HOH:O	2.09	0.51
2:C:720:GLU:HA	2:C:759:THR:O	2.11	0.51
2:C:473:ARG:HD3	2:C:531:PHE:HE1	1.75	0.51
4:E:54:LEU:HA	4:E:58:PRO:HG2	1.93	0.51
2:C:769:PRO:O	2:C:772:ARG:HB3	2.11	0.51
2:M:584:GLU:O	2:M:588:VAL:HG13	2.11	0.51
2:M:723:THR:CG2	2:M:725:ASP:HB2	2.41	0.51
1:K:150:TYR:HE1	2:M:696:LYS:HA	1.76	0.51
5:P:226:LYS:HB2	5:P:238:TYR:OH	2.11	0.51
4:O:62:THR:HA	4:O:65:MET:HE3	1.92	0.51
3:N:1362:LYS:HD2	9:N:9355:HOH:O	2.11	0.51
3:N:593:ASN:OD1	3:N:594:PRO:HD2	2.11	0.51
1:K:63:HIS:HD2	1:K:65:PHE:N	2.09	0.51
3:N:1080:GLY:HA3	9:N:9068:HOH:O	2.10	0.51
5:F:121:GLY:HA3	9:F:650:HOH:O	2.11	0.51
3:N:173:PRO:HA	9:N:9622:HOH:O	2.11	0.50
2:C:1115:LEU:HD12	2:C:1115:LEU:N	2.26	0.50
3:D:137:PRO:HD2	3:D:453:ASP:CB	2.40	0.50
3:N:1144:LEU:HA	3:N:1147:ARG:HG3	1.93	0.50
2:M:288:ARG:HB2	9:M:1581:HOH:O	2.11	0.50
3:D:56:TYR:CE2	3:D:69:GLU:HB2	2.45	0.50
2:C:1032:PHE:CZ	2:C:1040:LEU:HD22	2.46	0.50
2:M:396:ASP:HA	2:M:633:GLN:OE1	2.11	0.50
2:C:274:ARG:CG	2:C:285:LEU:HD22	2.41	0.50
2:M:462:ASP:OD1	2:M:468:ARG:HG2	2.12	0.50
2:M:580:MET:HB3	2:M:584:GLU:CD	2.32	0.50
3:D:865:THR:CG2	3:D:874:GLU:HG2	2.41	0.50
5:F:287:THR:C	5:F:289:GLU:H	2.14	0.50
1:A:176:ARG:O	1:A:200:TRP:HE3	1.93	0.50
2:C:166:PRO:HD2	9:C:1436:HOH:O	2.11	0.50
2:M:107:LEU:HB2	9:M:1746:HOH:O	2.10	0.50
3:D:818:ARG:HD2	9:D:9402:HOH:O	2.10	0.50
5:F:134:LYS:HD2	9:F:721:HOH:O	2.11	0.50
1:L:60:ASP:HB2	9:L:3794:HOH:O	2.10	0.50
3:N:141:ILE:HD13	3:N:450:TYR:H	1.77	0.50
3:N:983:LEU:HD13	3:N:991:GLN:OE1	2.12	0.50
2:M:575:GLN:O	2:M:667:ALA:HB1	2.10	0.50
2:C:1086:ARG:HB3	2:C:1112:PHE:HE2	1.76	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:1018:GLN:HE21	2:M:1063:ARG:HH22	1.57	0.50
3:N:396:VAL:CG2	3:N:447:VAL:HB	2.39	0.50
3:N:1020:LEU:HA	3:N:1023:MET:CE	2.42	0.50
4:O:29:GLN:HB2	4:O:33:HIS:CD2	2.47	0.50
3:D:1066:THR:CG2	3:D:1069:GLU:HG3	2.41	0.50
2:C:610:ARG:C	2:C:611:ILE:HD12	2.32	0.50
3:D:1389:LEU:HD12	3:D:1390:LEU:H	1.76	0.50
3:D:496:LEU:HD22	9:D:9267:HOH:O	2.11	0.50
3:D:1109:GLU:HG2	3:D:1201:CYS:CA	2.40	0.50
1:K:178:ALA:O	1:K:198:ARG:HG3	2.12	0.50
4:E:54:LEU:HG	4:E:58:PRO:HG2	1.93	0.50
2:C:208:ALA:HB1	2:C:218:VAL:CG1	2.41	0.50
2:M:379:GLU:O	2:M:383:ARG:HB3	2.11	0.50
2:C:9:ILE:HG12	2:C:907:ASP:CG	2.32	0.50
2:C:94:LEU:HD12	2:C:95:TYR:N	2.26	0.50
3:N:786:ILE:HD13	3:N:908:LYS:HB3	1.92	0.50
1:K:41:ARG:NH1	1:K:177:VAL:HB	2.26	0.50
2:M:85:GLU:HG3	9:M:1240:HOH:O	2.11	0.50
5:F:301:ALA:HB2	9:F:684:HOH:O	2.11	0.50
2:M:726:ILE:O	2:M:726:ILE:HG22	2.11	0.50
3:N:668:PRO:HD2	3:N:672:ALA:CB	2.41	0.50
2:C:749:VAL:HB	2:C:792:VAL:HG21	1.93	0.50
3:N:99:ALA:HA	3:N:575:GLN:HE22	1.76	0.50
5:P:217:ASN:O	5:P:221:ILE:HG13	2.12	0.50
3:D:81:THR:HG22	3:D:82:LYS:N	2.26	0.50
1:L:219:ARG:HB3	1:L:219:ARG:CZ	2.41	0.50
5:F:123:ASP:HB2	5:F:126:LEU:HD22	1.93	0.50
2:C:49:ARG:HA	9:C:1342:HOH:O	2.10	0.50
2:C:52:PHE:CD2	2:C:68:PHE:HB2	2.46	0.50
2:M:700:TYR:HB2	2:M:833:LEU:HD22	1.93	0.50
2:M:669:GLY:HA3	2:M:995:MET:HA	1.93	0.50
5:P:361:LEU:HD21	5:P:404:ALA:CB	2.42	0.50
3:D:399:ARG:HB3	3:D:402:PRO:HG3	1.93	0.50
3:D:149:LYS:HE3	9:D:9873:HOH:O	2.12	0.50
3:N:955:VAL:HG11	3:N:1015:TYR:HE2	1.76	0.50
4:O:45:ARG:HB2	4:O:46:PRO:CD	2.41	0.50
3:D:1137:ARG:HG2	9:D:9554:HOH:O	2.11	0.50
3:D:486:ARG:HB3	9:D:9316:HOH:O	2.10	0.50
5:F:291:ILE:O	5:F:295:MET:HB2	2.11	0.50
1:L:5:LYS:HE3	1:L:5:LYS:HA	1.93	0.50
5:P:289:GLU:O	5:P:293:GLU:HG3	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:104:PHE:CD2	3:N:1448:THR:HG23	2.46	0.50
2:M:101:ILE:HG22	2:M:102:HIS:H	1.76	0.50
5:F:201:LYS:HG2	9:F:891:HOH:O	2.10	0.50
2:M:841:ASN:HD22	2:M:841:ASN:C	2.14	0.50
3:D:829:VAL:HG21	9:D:9008:HOH:O	2.12	0.50
2:C:969:GLN:HG2	9:C:1454:HOH:O	2.11	0.50
1:A:35:THR:HG21	1:B:43:ILE:HD11	1.92	0.50
3:D:128:TYR:CE1	3:D:461:ILE:HG13	2.47	0.50
3:D:502:PHE:CE2	3:D:1452:ILE:HG23	2.46	0.50
3:N:137:PRO:HD2	3:N:453:ASP:CB	2.41	0.50
3:N:1109:GLU:CD	3:N:1202:GLN:H	2.14	0.50
2:C:651:LYS:HD2	9:C:1839:HOH:O	2.11	0.50
3:D:1045:MET:HB2	9:D:9034:HOH:O	2.11	0.50
3:D:704:ARG:HG3	3:D:736:PHE:HB3	1.93	0.50
2:C:612:VAL:HG22	2:C:622:GLU:HB2	1.93	0.50
2:C:626:ARG:HB2	2:C:639:GLN:HE21	1.77	0.50
3:D:790:TYR:HD2	3:D:906:GLN:O	1.94	0.50
3:N:643:GLY:CA	3:N:727:GLN:HB2	2.41	0.50
2:M:709:GLU:HG3	2:M:824:ARG:HG2	1.93	0.50
3:D:156:GLU:CD	3:D:156:GLU:N	2.64	0.50
3:N:1472:ILE:O	3:N:1477:GLY:HA3	2.10	0.50
1:L:110:LYS:HG2	1:L:127:LEU:O	2.11	0.50
3:N:1267:ARG:HH12	3:N:1331:ASP:CB	2.24	0.50
2:C:806:LEU:HD22	9:C:1461:HOH:O	2.11	0.50
2:C:267:TYR:CD1	2:C:272:ALA:HB1	2.47	0.50
4:E:40:LEU:HB3	9:E:164:HOH:O	2.11	0.50
3:N:180:LYS:HB3	9:N:9334:HOH:O	2.11	0.50
3:N:956:ILE:HG12	3:N:1039:CYS:O	2.11	0.50
3:N:788:GLY:O	3:N:792:ILE:HG22	2.11	0.50
3:D:407:VAL:HG21	9:D:2098:HOH:O	2.12	0.50
2:M:626:ARG:CB	2:M:639:GLN:HE22	2.12	0.50
2:C:439:CYS:SG	2:C:540:PHE:HB3	2.52	0.50
3:N:860:LEU:H	3:N:860:LEU:HD12	1.76	0.50
2:M:775:ARG:HH12	5:P:421:PHE:HD2	1.59	0.50
2:M:710:ILE:HD12	2:M:790:LEU:HB2	1.93	0.50
2:C:15:LEU:HD12	9:C:1190:HOH:O	2.11	0.50
2:C:701:THR:HA	2:C:831:ARG:O	2.11	0.50
3:N:843:PHE:CE1	3:N:864:VAL:HG11	2.47	0.50
2:C:1001:VAL:HG23	9:C:1965:HOH:O	2.10	0.50
5:F:392:VAL:CG1	5:F:396:ARG:HE	2.24	0.50
2:C:376:ARG:HB3	2:C:377:PRO:HD3	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:1000:MET:O	2:M:1003:ASP:HB3	2.12	0.50
3:D:42:ASP:O	3:D:43:GLY:O	2.29	0.50
5:F:105:LYS:NZ	5:F:179:GLU:HB3	2.27	0.50
3:N:36:THR:HG21	9:N:9656:HOH:O	2.12	0.50
5:F:153:PRO:HG2	5:F:154:LYS:H	1.77	0.50
5:F:202:TYR:HB2	5:F:212:LEU:HD21	1.93	0.50
3:D:768:ASN:N	3:D:768:ASN:HD22	2.09	0.50
2:M:322:VAL:HG12	9:M:1579:HOH:O	2.11	0.50
2:C:757:GLY:HA2	2:C:789:SER:OG	2.12	0.50
3:N:126:VAL:O	3:N:132:TYR:HD1	1.95	0.50
2:C:396:ASP:HA	2:C:633:GLN:OE1	2.12	0.50
5:F:321:ILE:HG22	5:F:322:GLY:N	2.27	0.50
2:C:686:ASP:HB3	9:C:1260:HOH:O	2.11	0.50
3:D:135:LEU:HA	3:D:453:ASP:O	2.12	0.50
3:D:1318:TYR:HD1	3:D:1319:VAL:H	1.59	0.50
2:C:194:VAL:HG21	2:C:221:LEU:O	2.11	0.50
2:C:212:GLY:HA3	2:C:218:VAL:CG2	2.42	0.50
4:E:25:LYS:HA	4:E:28:GLN:NE2	2.25	0.50
1:K:26:GLU:CB	1:K:194:LYS:HG3	2.42	0.50
2:C:57:GLU:OE1	2:C:63:GLY:HA2	2.11	0.50
3:N:1000:THR:HG23	3:N:1001:GLU:N	2.27	0.50
1:A:19:GLU:O	1:A:200:TRP:HA	2.11	0.50
2:C:251:ASP:HB3	2:C:252:LYS:CE	2.41	0.50
3:D:229:ALA:HB1	9:D:9029:HOH:O	2.11	0.50
3:N:756:GLN:O	3:N:760:ARG:HG2	2.12	0.50
3:D:603:LEU:O	3:D:606:ILE:HB	2.11	0.50
3:D:1209:LEU:HG	3:D:1219:GLU:OE2	2.11	0.50
5:F:408:LEU:HA	5:F:411:HIS:CE1	2.47	0.50
3:D:1198:TYR:HE2	3:D:1377:LYS:HE3	1.76	0.50
2:M:717:LEU:HD23	2:M:717:LEU:N	2.27	0.50
5:P:126:LEU:HB3	9:P:4172:HOH:O	2.11	0.50
2:C:688:ILE:CD1	2:C:847:GLY:HA3	2.41	0.50
1:L:24:VAL:HG22	1:L:196:THR:OG1	2.12	0.50
3:N:644:LEU:HD12	3:N:645:PRO:CD	2.38	0.50
3:N:1066:THR:HG22	3:N:1069:GLU:HG3	1.93	0.50
1:K:218:LEU:O	1:K:222:LEU:HD23	2.12	0.50
3:N:658:LEU:O	3:N:661:MET:HB2	2.11	0.50
2:C:362:GLY:HA3	2:C:367:LEU:HD23	1.94	0.50
2:C:975:TYR:N	2:C:975:TYR:CD1	2.79	0.50
2:M:722:ILE:HG21	2:M:821:GLU:OE1	2.12	0.50
3:N:487:ALA:HB3	9:N:9145:HOH:O	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:411:THR:HG21	9:N:9050:HOH:O	2.12	0.50
1:B:90:LEU:HD23	9:B:411:HOH:O	2.10	0.50
3:D:12:LEU:HB2	9:D:9124:HOH:O	2.11	0.50
5:F:385:GLU:O	5:F:397:ILE:HD13	2.12	0.50
3:D:211:VAL:HG11	9:D:9609:HOH:O	2.12	0.50
2:M:676:ILE:HD12	2:M:871:LEU:HB2	1.92	0.50
4:O:48:MET:CB	4:O:54:LEU:HB2	2.42	0.50
5:P:419:ARG:O	5:P:421:PHE:N	2.45	0.50
3:D:705:ALA:CB	3:D:706:PRO:HD3	2.42	0.50
2:M:54:ILE:HG23	2:M:54:ILE:O	2.12	0.50
2:C:625:LEU:CD1	2:C:641:PRO:HG3	2.41	0.50
2:C:946:ARG:HB3	9:C:1400:HOH:O	2.12	0.50
3:D:629:SER:HB3	3:D:726:ILE:HD11	1.94	0.50
1:L:80:LEU:HD23	3:N:867:ARG:NH2	2.27	0.50
3:N:1194:CYS:HB3	3:N:1373:ARG:HH22	1.75	0.50
2:C:358:ARG:NH2	2:C:374:ASN:HB3	2.25	0.50
5:F:273:ARG:HG2	5:F:276:ARG:NH1	2.27	0.50
4:E:19:LEU:O	4:E:23:VAL:HG23	2.12	0.50
2:C:732:ALA:O	2:C:735:ARG:HG3	2.12	0.50
2:C:735:ARG:HH11	2:C:735:ARG:HG2	1.77	0.50
1:B:148:VAL:HA	9:B:597:HOH:O	2.12	0.50
2:C:1019:GLN:HE21	2:C:1019:GLN:H	1.59	0.50
1:K:132:LEU:HD12	1:K:132:LEU:N	2.26	0.50
2:C:726:ILE:O	2:C:726:ILE:HG22	2.11	0.50
3:N:730:PRO:HA	3:N:733:CYS:SG	2.52	0.50
3:D:401:TYR:CE2	3:D:415:VAL:HG13	2.47	0.50
2:M:207:LEU:HD22	2:M:221:LEU:CD2	2.42	0.50
1:B:39:PRO:O	1:B:43:ILE:HG12	2.12	0.50
3:D:115:LEU:HD21	3:D:465:LEU:HD21	1.94	0.50
3:N:1086:LEU:HD12	9:N:9724:HOH:O	2.12	0.50
3:N:42:ASP:O	3:N:43:GLY:O	2.30	0.50
2:C:333:ILE:HD12	2:C:333:ILE:N	2.26	0.50
2:M:676:ILE:CG2	2:M:988:VAL:HG22	2.41	0.50
2:M:676:ILE:O	3:N:948:THR:HG23	2.12	0.50
3:D:1318:TYR:HB3	9:D:9944:HOH:O	2.11	0.50
2:C:513:VAL:HG13	9:C:1221:HOH:O	2.12	0.50
1:L:159:LYS:HE3	9:L:5309:HOH:O	2.11	0.50
2:C:590:ASP:HB2	9:C:1272:HOH:O	2.11	0.50
3:D:908:LYS:CG	3:D:1027:GLY:HA3	2.42	0.50
2:M:603:VAL:HG23	2:M:647:GLN:O	2.11	0.50
3:D:892:ASP:HB3	3:D:895:VAL:HB	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:353:GLU:OE2	5:F:356:LYS:HD2	2.11	0.50
3:D:690:ALA:O	3:D:694:VAL:HG23	2.11	0.50
3:N:1425:THR:HG23	3:N:1426:LYS:H	1.77	0.50
4:O:61:GLU:C	4:O:65:MET:HE2	2.32	0.50
3:N:603:LEU:O	3:N:606:ILE:HB	2.11	0.50
2:M:284:ARG:HB2	9:M:1270:HOH:O	2.12	0.50
3:D:407:VAL:HG11	9:D:9652:HOH:O	2.11	0.50
2:C:17:PRO:O	2:C:20:GLU:HB3	2.11	0.50
1:A:67:THR:HG21	2:C:609:ASN:HD21	1.76	0.50
1:L:226:SER:O	1:L:228:PRO:HD3	2.12	0.50
2:M:73:LEU:HD12	2:M:73:LEU:O	2.12	0.50
2:C:744:ARG:HG3	2:C:747:ALA:HB2	1.94	0.50
5:P:297:PRO:HB3	9:P:5408:HOH:O	2.11	0.50
3:D:827:ILE:O	3:D:837:GLY:HA3	2.12	0.50
2:M:207:LEU:HD23	2:M:211:LEU:HD23	1.94	0.49
2:C:395:LYS:HE3	2:C:403:SER:HB2	1.94	0.49
1:A:20:TYR:CD2	1:A:21:GLY:N	2.72	0.49
2:M:438:ILE:CD1	2:M:467:ILE:HD12	2.42	0.49
3:D:85:VAL:HG12	3:D:89:ARG:NE	2.27	0.49
3:N:1262:LEU:HD23	3:N:1352:ILE:CG1	2.42	0.49
5:F:247:ILE:O	5:F:251:ILE:HG13	2.11	0.49
2:C:941:VAL:O	2:C:944:LEU:HB2	2.12	0.49
3:N:448:GLU:HG3	9:N:9605:HOH:O	2.12	0.49
1:B:91:ASN:O	1:B:94:LEU:HD12	2.12	0.49
2:M:71:TYR:HA	9:M:1826:HOH:O	2.11	0.49
9:C:1814:HOH:O	3:D:630:VAL:HG21	2.12	0.49
3:N:1485:GLN:HE21	4:O:80:VAL:N	2.07	0.49
1:K:213:GLN:O	1:K:217:ILE:HG13	2.12	0.49
1:L:127:LEU:HA	9:L:5627:HOH:O	2.11	0.49
5:P:153:PRO:HG3	9:P:7043:HOH:O	2.13	0.49
2:C:653:ASP:OD1	2:C:654:LEU:HD23	2.12	0.49
1:L:7:LYS:HA	9:L:3817:HOH:O	2.12	0.49
1:A:88:ARG:NH1	1:A:90:LEU:HD21	2.27	0.49
2:M:380:ALA:HA	2:M:383:ARG:HG2	1.93	0.49
3:N:1123:PHE:HA	3:N:1135:ARG:H	1.76	0.49
3:D:590:PRO:HG2	9:D:9991:HOH:O	2.11	0.49
3:D:29:PRO:HG3	3:D:549:ASN:ND2	2.26	0.49
3:N:957:PRO:CG	3:N:1007:VAL:HG12	2.42	0.49
1:A:216:GLU:HG2	9:A:416:HOH:O	2.12	0.49
2:M:74:GLY:O	2:M:76:PRO:HD3	2.12	0.49
3:D:844:ALA:O	3:D:867:ARG:HB3	2.11	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:185:VAL:HG13	9:N:2296:HOH:O	2.12	0.49
3:N:624:ASP:HB3	3:N:625:TYR:HD1	1.75	0.49
5:P:214:GLN:O	5:P:217:ASN:HB2	2.13	0.49
2:M:328:LEU:HD23	2:M:437:ARG:HD3	1.93	0.49
2:M:139:GLN:HE22	2:M:415:PRO:CG	2.23	0.49
2:C:159:ILE:HG22	9:C:2004:HOH:O	2.12	0.49
1:B:41:ARG:HG3	1:B:177:VAL:CG2	2.36	0.49
2:C:281:LEU:CD1	2:C:306:THR:HA	2.42	0.49
1:B:185:ARG:HB2	9:B:530:HOH:O	2.11	0.49
1:L:71:VAL:HG22	1:L:132:LEU:CD1	2.42	0.49
2:C:80:GLN:O	2:C:83:CYS:HB2	2.12	0.49
1:K:198:ARG:C	1:K:199:ILE:HD12	2.32	0.49
3:N:1045:MET:HB3	3:N:1072:ILE:HG22	1.93	0.49
3:D:6:ARG:HG3	3:D:7:LYS:HG3	1.93	0.49
3:D:897:TRP:CZ3	3:D:902:LEU:HD21	2.47	0.49
3:D:60:CYS:HB3	9:D:9088:HOH:O	2.12	0.49
3:N:388:HIS:H	5:P:97:GLU:HG3	1.77	0.49
3:N:1429:LEU:HG	3:N:1441:GLN:HB2	1.93	0.49
2:M:821:GLU:HB2	9:M:1696:HOH:O	2.13	0.49
2:M:101:ILE:HG22	2:M:102:HIS:N	2.26	0.49
2:C:364:GLU:HB3	9:C:1329:HOH:O	2.12	0.49
4:E:43:GLU:HG2	4:E:44:GLU:H	1.77	0.49
2:M:199:VAL:HG13	2:M:235:LEU:CG	2.36	0.49
2:C:234:ALA:HA	9:C:1236:HOH:O	2.12	0.49
1:A:192:LEU:HA	9:A:345:HOH:O	2.12	0.49
1:A:27:PRO:HG2	1:A:186:LEU:CD2	2.39	0.49
3:N:1109:GLU:HG2	3:N:1202:GLN:H	1.77	0.49
2:M:561:GLY:HA3	2:M:842:ARG:O	2.12	0.49
5:P:361:LEU:HD23	5:P:362:SER:N	2.27	0.49
2:M:920:GLN:HG2	9:M:1233:HOH:O	2.11	0.49
4:E:26:ARG:HE	4:E:30:LEU:CD1	2.24	0.49
1:L:45:LEU:HD12	9:L:5472:HOH:O	2.12	0.49
1:B:23:PHE:CD2	1:B:211:LEU:HD22	2.47	0.49
2:C:498:GLN:O	2:C:501:THR:HG23	2.12	0.49
3:N:482:LYS:HA	3:N:489:ARG:HH21	1.77	0.49
1:A:208:LEU:CD1	1:A:212:ASN:HD21	2.24	0.49
1:A:212:ASN:O	1:A:215:VAL:HG22	2.13	0.49
4:E:54:LEU:HG	4:E:58:PRO:CG	2.41	0.49
3:D:1086:LEU:HD11	6:D:8001:STD:H6	1.94	0.49
3:N:1075:HIS:O	3:N:1079:LYS:HD3	2.12	0.49
5:F:295:MET:HG3	9:F:706:HOH:O	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:971:LEU:HD11	3:D:992:ILE:HD13	1.94	0.49
3:D:584:ASN:OD1	3:D:590:PRO:HD2	2.12	0.49
3:N:1342:GLU:HB3	9:N:9279:HOH:O	2.11	0.49
2:M:743:VAL:HG11	2:M:800:VAL:HG21	1.95	0.49
3:D:1164:ARG:HG3	9:D:9760:HOH:O	2.12	0.49
5:P:278:LEU:CB	5:P:286:PRO:HG2	2.41	0.49
1:K:197:LEU:H	1:K:197:LEU:HD23	1.76	0.49
3:N:1498:ALA:HA	3:N:1501:GLU:OE2	2.12	0.49
3:N:1254:GLN:OE1	3:N:1355:VAL:HG13	2.13	0.49
1:A:221:HIS:HA	1:A:224:TYR:CD2	2.47	0.49
5:P:185:GLN:O	5:P:189:GLU:HG3	2.12	0.49
3:N:161:LEU:HD22	3:N:452:ILE:HG21	1.94	0.49
3:N:27:GLU:N	9:N:9381:HOH:O	2.45	0.49
3:D:566:ILE:HD13	5:F:217:ASN:HB3	1.93	0.49
2:C:676:ILE:HG22	2:C:988:VAL:HG22	1.94	0.49
3:N:875:THR:HB	9:N:9245:HOH:O	2.13	0.49
3:D:601:ARG:HE	3:D:606:ILE:HA	1.76	0.49
3:D:710:ARG:NH1	3:D:1210:SER:OG	2.46	0.49
2:C:1071:ILE:O	3:D:659:LYS:HG2	2.11	0.49
3:D:393:ILE:N	3:D:393:ILE:HD12	2.28	0.49
3:N:96:ALA:HB1	3:N:554:LEU:HD12	1.94	0.49
2:M:78:PHE:CG	2:M:88:LEU:HD21	2.47	0.49
2:C:101:ILE:HG22	2:C:102:HIS:N	2.27	0.49
3:N:616:GLN:HA	9:N:9336:HOH:O	2.12	0.49
3:N:828:LYS:N	3:N:828:LYS:HD3	2.28	0.49
3:D:178:LEU:HD11	9:D:9048:HOH:O	2.12	0.49
2:C:384:GLU:HA	2:C:388:ARG:CZ	2.42	0.49
3:D:586:ARG:HG2	9:D:9444:HOH:O	2.11	0.49
3:D:480:GLU:O	3:D:484:PRO:HD2	2.11	0.49
4:O:61:GLU:O	4:O:65:MET:HG3	2.11	0.49
2:C:249:LYS:HE3	9:C:1212:HOH:O	2.11	0.49
4:E:33:HIS:HB2	4:E:37:ASN:HD21	1.77	0.49
2:C:767:PRO:HG2	9:C:1376:HOH:O	2.11	0.49
5:P:93:LEU:HG	5:P:190:ALA:HB1	1.93	0.49
2:C:195:LEU:CD2	2:C:238:LEU:HG	2.42	0.49
3:D:1206:GLY:HA3	3:D:1366:LYS:NZ	2.27	0.49
3:N:427:VAL:HG21	3:N:435:VAL:HB	1.93	0.49
1:A:50:GLY:O	1:A:146:ARG:HA	2.12	0.49
3:D:1432:LYS:HB2	9:D:9247:HOH:O	2.12	0.49
1:L:50:GLY:O	1:L:146:ARG:HA	2.13	0.49
5:F:166:LEU:HD22	5:F:170:HIS:HB2	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:26:GLU:CB	1:L:194:LYS:HG3	2.38	0.49
5:F:93:LEU:HG	5:F:190:ALA:HB1	1.93	0.49
2:M:589:ARG:CB	2:M:589:ARG:HH11	2.22	0.49
3:N:1059:SER:HB3	9:N:9480:HOH:O	2.11	0.49
3:D:150:ARG:HG3	3:D:150:ARG:NH1	2.27	0.49
3:N:906:GLN:HA	3:N:906:GLN:OE1	2.11	0.49
3:N:633:VAL:HG22	3:N:635:PRO:CD	2.42	0.49
1:L:99:LEU:HD21	1:L:122:ILE:HD11	1.94	0.49
2:M:51:THR:CB	2:M:348:LEU:HD23	2.42	0.49
3:N:1280:VAL:HG23	3:N:1295:GLU:O	2.13	0.49
2:M:69:LEU:HB2	2:M:97:ARG:HB2	1.94	0.49
9:C:1967:HOH:O	3:D:618:LEU:HD22	2.12	0.49
3:N:780:LYS:HB2	3:N:780:LYS:NZ	2.27	0.49
1:A:74:ASP:O	1:A:78:ILE:HG13	2.11	0.49
2:M:218:VAL:HG22	2:M:221:LEU:CD2	2.41	0.49
2:M:202:TYR:OH	2:M:304:LEU:HD22	2.13	0.49
2:M:1032:PHE:CE2	2:M:1052:MET:HG2	2.48	0.49
5:F:181:GLU:O	5:F:184:ARG:HB3	2.12	0.49
2:M:1042:ALA:CB	3:N:710:ARG:HD3	2.43	0.49
3:N:1211:MET:SD	4:O:16:LYS:HD2	2.52	0.49
2:M:227:PHE:HB3	9:M:1419:HOH:O	2.13	0.49
2:C:641:PRO:HD2	9:C:1276:HOH:O	2.13	0.49
2:C:495:THR:HG21	2:C:524:VAL:HG21	1.93	0.49
2:C:516:ARG:CD	2:C:521:PRO:HA	2.43	0.49
2:M:517:ARG:HD3	2:M:522:VAL:HG11	1.93	0.49
3:N:1047:LYS:HG2	3:N:1053:PHE:CZ	2.48	0.49
2:C:374:ASN:HB2	9:C:1848:HOH:O	2.13	0.49
3:D:93:ILE:HG12	3:D:548:ILE:CD1	2.43	0.49
2:C:930:LYS:HA	9:C:1256:HOH:O	2.12	0.49
3:D:404:GLU:HB3	3:D:414:ARG:HD2	1.95	0.49
1:K:99:LEU:HB3	1:K:114:PHE:CD2	2.48	0.49
3:N:1282:ARG:HA	3:N:1315:ASP:OD1	2.12	0.49
3:D:815:ALA:HA	9:D:9402:HOH:O	2.12	0.49
3:D:664:LYS:HG2	9:D:9879:HOH:O	2.12	0.49
1:A:62:LEU:HD23	1:A:163:ASN:HD21	1.77	0.49
2:M:37:GLU:HB2	9:M:2125:HOH:O	2.13	0.49
3:D:962:GLN:HG3	9:D:2033:HOH:O	2.12	0.49
1:A:14:ARG:CZ	1:A:24:VAL:HG23	2.42	0.49
3:D:462:GLN:HA	3:D:513:ILE:CD1	2.42	0.49
2:C:161:SER:HB2	9:C:1193:HOH:O	2.13	0.49
5:F:402:ASN:O	5:F:406:ARG:HG3	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:161:ARG:HG3	9:L:4789:HOH:O	2.11	0.49
2:M:571:LEU:HA	2:M:701:THR:O	2.12	0.49
1:B:87:VAL:HG21	1:B:144:VAL:CG1	2.36	0.49
3:N:128:TYR:HE1	3:N:461:ILE:HG13	1.77	0.49
2:M:863:ASP:O	2:M:865:THR:N	2.45	0.49
3:N:703:ASN:ND2	3:N:704:ARG:H	2.10	0.49
3:N:950:GLY:O	3:N:953:ASP:HB2	2.12	0.49
3:D:573:MET:SD	5:F:210:LEU:HB3	2.52	0.49
3:D:68:PHE:O	3:D:71:LYS:HG2	2.13	0.49
1:A:209:GLU:O	1:A:213:GLN:HG3	2.12	0.49
3:N:820:GLU:HA	3:N:825:ALA:O	2.12	0.49
1:B:176:ARG:HH22	3:D:884:ARG:CD	2.23	0.49
2:C:1004:LYS:HE3	2:C:1027:PHE:CE1	2.48	0.49
1:A:208:LEU:HD11	1:A:212:ASN:HD21	1.77	0.49
2:M:34:VAL:HG12	9:M:1886:HOH:O	2.11	0.49
2:M:1107:ASN:HA	9:M:1260:HOH:O	2.13	0.49
2:M:839:LEU:HD21	2:M:849:VAL:CG2	2.42	0.49
3:N:945:SER:OG	3:N:947:ILE:HG23	2.13	0.49
3:D:473:LEU:HD21	3:D:495:ARG:NE	2.28	0.49
2:C:893:ALA:HB2	2:C:918:LEU:HD12	1.95	0.49
3:D:986:ARG:HD2	9:D:9742:HOH:O	2.11	0.49
1:A:103:ALA:HB1	1:A:107:LYS:HD3	1.94	0.49
2:C:745:ILE:HD11	9:C:1385:HOH:O	2.12	0.49
3:D:169:TYR:N	3:D:170:PRO:CD	2.76	0.49
2:M:264:PRO:HB3	2:M:289:THR:HB	1.93	0.49
2:C:630:ARG:HH21	2:C:705:ILE:CG2	2.18	0.49
3:N:423:ASP:HB2	5:P:178:ARG:CD	2.43	0.49
2:C:160:ALA:O	2:C:173:ASP:HA	2.12	0.49
3:N:135:LEU:HA	3:N:453:ASP:O	2.13	0.49
3:N:57:GLU:HG2	3:N:58:CYS:N	2.27	0.49
3:N:152:LEU:HD23	3:N:152:LEU:N	2.21	0.49
3:D:190:GLU:HG3	3:D:210:ARG:CD	2.42	0.49
1:L:207:PRO:HD2	9:L:4122:HOH:O	2.12	0.49
3:D:65:ARG:H	3:D:68:PHE:HZ	1.61	0.49
9:C:1210:HOH:O	3:D:1048:PRO:HG2	2.11	0.49
3:D:706:PRO:HD2	9:D:9170:HOH:O	2.12	0.49
3:D:806:PHE:CZ	3:D:813:LEU:HB3	2.47	0.49
2:C:254:VAL:HA	2:C:257:VAL:HG23	1.95	0.49
3:N:1115:THR:C	9:N:9343:HOH:O	2.50	0.49
3:D:126:VAL:O	3:D:132:TYR:HD1	1.96	0.49
1:K:210:ALA:HA	1:K:213:GLN:NE2	2.27	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:282:LEU:CD1	5:F:286:PRO:HG3	2.43	0.49
5:F:151:LEU:HB2	5:F:155:THR:H	1.78	0.49
5:F:245:GLN:HB3	9:F:604:HOH:O	2.13	0.49
1:K:86:VAL:HG23	9:K:4248:HOH:O	2.13	0.49
2:M:3:ILE:HB	9:M:2130:HOH:O	2.12	0.49
3:N:1213:ARG:HB2	3:N:1214:PRO:CD	2.43	0.49
3:N:212:ARG:HD2	9:N:9466:HOH:O	2.13	0.49
3:N:793:THR:HA	9:N:9545:HOH:O	2.12	0.49
1:L:189:ARG:HB3	9:L:3718:HOH:O	2.12	0.49
3:N:1148:VAL:HG13	3:N:1163:GLY:O	2.13	0.49
3:N:750:PRO:HB2	3:N:756:GLN:OE1	2.13	0.49
2:M:334:ARG:NH1	2:M:415:PRO:HG2	2.28	0.49
3:N:52:PRO:HG2	3:N:79:GLU:O	2.12	0.49
2:C:1054:THR:HG22	2:C:1059:ASP:OD2	2.13	0.49
5:F:365:GLU:OE1	5:F:400:ILE:HD12	2.12	0.49
3:D:183:GLU:HA	3:D:186:VAL:CG1	2.43	0.49
3:D:402:PRO:HG2	3:D:444:VAL:HG11	1.94	0.49
5:F:131:VAL:HG22	5:F:178:ARG:HG2	1.95	0.49
4:O:48:MET:HB2	4:O:54:LEU:HD12	1.93	0.49
1:L:143:ARG:NH1	1:L:158:ILE:HD12	2.28	0.49
2:M:52:PHE:HD2	9:M:1848:HOH:O	1.95	0.49
3:D:493:ARG:HG2	3:D:493:ARG:HH11	1.77	0.49
2:M:710:ILE:HB	2:M:790:LEU:CD1	2.41	0.49
2:C:79:PRO:HD2	2:C:82:GLU:HB2	1.95	0.49
3:N:1402:ALA:HB2	3:N:1415:VAL:HG23	1.95	0.49
1:A:88:ARG:CZ	1:A:90:LEU:HD21	2.43	0.49
1:L:123:MET:HA	9:L:6518:HOH:O	2.12	0.49
3:D:671:LYS:HG3	5:F:422:LEU:HA	1.94	0.49
2:M:601:GLY:HA2	2:M:616:GLU:HG2	1.94	0.49
4:O:43:GLU:HG2	4:O:44:GLU:H	1.78	0.49
5:F:387:GLY:HA2	9:F:752:HOH:O	2.12	0.49
3:N:702:LEU:HD23	3:N:745:MET:HE1	1.95	0.49
3:D:1356:TYR:CD2	3:D:1363:LEU:HD23	2.48	0.49
3:D:104:PHE:CE2	3:D:1448:THR:HG23	2.48	0.49
3:N:571:LYS:HZ2	3:N:571:LYS:HB2	1.78	0.49
3:D:1135:ARG:HD3	9:D:2510:HOH:O	2.13	0.49
3:D:793:THR:HG22	3:D:879:ARG:HA	1.95	0.49
1:K:67:THR:HG23	2:M:627:ARG:HH21	1.78	0.49
3:D:539:ASP:CG	5:F:318:GLU:HB2	2.32	0.49
3:D:185:VAL:CG1	3:D:191:LEU:HD21	2.43	0.49
2:C:350:ARG:CB	2:C:350:ARG:HH11	2.19	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:1060:ILE:CG2	2:M:1061:GLU:N	2.75	0.49
3:D:136:ASP:HB3	9:D:2221:HOH:O	2.13	0.49
4:O:94:PRO:HA	9:O:3788:HOH:O	2.12	0.49
1:B:208:LEU:HD13	1:B:212:ASN:HD21	1.78	0.49
3:D:1109:GLU:CD	3:D:1202:GLN:H	2.15	0.49
3:N:440:VAL:HG12	3:N:441:ARG:N	2.27	0.49
2:C:113:VAL:HG11	2:C:373:VAL:HB	1.95	0.49
2:M:549:PHE:CE2	2:M:886:LEU:HB3	2.48	0.49
2:M:532:MET:HG3	2:M:533:ASP:H	1.76	0.49
2:M:368:THR:HG23	9:M:1288:HOH:O	2.12	0.49
5:F:277:GLN:HG3	9:F:492:HOH:O	2.11	0.49
3:D:440:VAL:HA	9:D:9739:HOH:O	2.13	0.49
3:D:19:ARG:NH2	3:D:94:GLU:OE2	2.46	0.49
2:M:220:GLY:HA3	9:M:1230:HOH:O	2.12	0.49
1:A:185:ARG:O	1:A:185:ARG:HD2	2.13	0.49
2:C:429:ASP:HA	3:D:1078:ARG:HB3	1.94	0.49
2:M:308:ARG:HB3	9:M:1174:HOH:O	2.13	0.48
3:N:44:LEU:HG	9:N:9441:HOH:O	2.13	0.48
2:C:1059:ASP:CG	2:C:1062:GLY:HA3	2.32	0.48
5:P:404:ALA:O	5:P:408:LEU:HD23	2.12	0.48
2:M:19:THR:O	2:M:23:VAL:HG23	2.13	0.48
3:D:131:LYS:HB3	3:D:456:MET:CE	2.43	0.48
2:M:66:LEU:HD23	9:M:1162:HOH:O	2.13	0.48
2:M:755:LEU:HD22	2:M:825:VAL:HG11	1.95	0.48
1:A:86:VAL:HG21	1:A:202:ASP:O	2.13	0.48
3:D:132:TYR:HD2	9:D:9028:HOH:O	1.95	0.48
3:D:1056:PRO:HD2	9:D:9713:HOH:O	2.12	0.48
5:P:392:VAL:HG22	9:P:5677:HOH:O	2.13	0.48
1:A:97:VAL:HG23	9:A:513:HOH:O	2.13	0.48
5:F:143:HIS:HB2	5:F:152:ASP:OD1	2.13	0.48
1:B:19:GLU:HB2	9:B:416:HOH:O	2.13	0.48
3:D:829:VAL:H	3:D:835:SER:HB2	1.78	0.48
3:D:986:ARG:HG3	3:D:990:ASP:OD2	2.12	0.48
2:C:429:ASP:HB3	9:D:9038:HOH:O	2.12	0.48
3:D:482:LYS:HD3	9:D:9448:HOH:O	2.12	0.48
2:C:400:PRO:N	9:C:1308:HOH:O	2.45	0.48
1:B:10:VAL:HA	9:B:434:HOH:O	2.13	0.48
3:D:960:LYS:HZ1	3:D:1041:LEU:HB3	1.78	0.48
2:M:192:PRO:HD3	9:M:1291:HOH:O	2.12	0.48
2:M:208:ALA:HA	2:M:221:LEU:HD21	1.95	0.48
3:D:1406:ARG:HH11	3:D:1406:ARG:HG2	1.78	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:637:LEU:CD1	3:N:641:GLN:HB2	2.43	0.48
2:M:437:ARG:HH21	2:M:488:ALA:HA	1.74	0.48
2:M:433:THR:CG2	2:M:488:ALA:HB1	2.43	0.48
2:C:1115:LEU:HB3	3:D:85:VAL:HG13	1.95	0.48
3:N:28:LYS:HB2	3:N:41:ARG:CZ	2.43	0.48
3:D:598:ARG:NH1	5:F:320:PRO:HD3	2.27	0.48
5:F:318:GLU:HA	9:F:522:HOH:O	2.13	0.48
5:F:82:ARG:HA	9:F:440:HOH:O	2.12	0.48
3:N:1291:SER:HB3	9:N:9004:HOH:O	2.11	0.48
2:C:683:ASN:HB2	2:C:872:ASN:HB2	1.95	0.48
1:B:206:THR:HG23	1:B:209:GLU:H	1.78	0.48
3:N:169:TYR:N	3:N:170:PRO:CD	2.76	0.48
3:N:83:SER:O	3:N:86:ARG:HB3	2.13	0.48
3:D:1096:ARG:CB	3:D:1096:ARG:HH11	2.24	0.48
2:M:602:GLU:HA	2:M:647:GLN:O	2.13	0.48
1:A:219:ARG:NH2	1:B:223:THR:HG22	2.24	0.48
2:C:101:ILE:HG23	2:C:107:LEU:CD2	2.42	0.48
2:M:35:PRO:HD2	2:M:38:LYS:CG	2.41	0.48
3:D:200:ASP:HB3	9:D:2480:HOH:O	2.13	0.48
2:C:833:LEU:HD12	2:C:834:GLN:H	1.77	0.48
2:M:401:LEU:HD13	2:M:587:VAL:HG11	1.94	0.48
3:D:656:PHE:HB3	3:D:694:VAL:CG1	2.44	0.48
1:B:173:PRO:HG3	9:B:347:HOH:O	2.13	0.48
3:D:890:VAL:HG13	3:D:926:LYS:CD	2.43	0.48
2:C:496:ILE:HD12	2:C:496:ILE:H	1.78	0.48
2:C:1051:GLU:HG2	2:C:1056:LYS:HD2	1.94	0.48
2:C:950:LEU:HB3	2:C:952:LEU:HD23	1.95	0.48
2:M:1017:THR:OG1	2:M:1019:GLN:HG2	2.14	0.48
2:M:1071:ILE:O	3:N:659:LYS:HB2	2.12	0.48
5:P:100:VAL:HG11	9:P:5340:HOH:O	2.12	0.48
2:C:22:GLN:O	2:C:121:MET:HE1	2.13	0.48
2:C:182:VAL:HG23	9:C:1307:HOH:O	2.13	0.48
3:D:561:GLY:HA3	5:F:184:ARG:NH2	2.19	0.48
2:C:341:THR:CG2	2:C:345:ARG:HH21	2.27	0.48
1:L:23:PHE:O	1:L:196:THR:HA	2.14	0.48
3:N:1346:ARG:HA	3:N:1346:ARG:NE	2.28	0.48
2:M:1015:LEU:HA	5:P:335:ASP:CB	2.40	0.48
2:M:568:ALA:HB1	2:M:668:LEU:HB3	1.93	0.48
3:D:535:PHE:HB2	9:F:515:HOH:O	2.12	0.48
5:F:278:LEU:HB2	5:F:286:PRO:HG2	1.94	0.48
1:A:125:PRO:HB2	9:A:439:HOH:O	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1293:PHE:CE2	3:D:1302:GLU:HB2	2.48	0.48
1:K:191:ASP:O	1:K:192:LEU:HD23	2.13	0.48
2:C:105:THR:HG21	9:C:1762:HOH:O	2.12	0.48
5:P:256:ARG:CZ	5:P:256:ARG:HB3	2.43	0.48
3:N:490:ALA:HB2	9:N:2018:HOH:O	2.13	0.48
2:M:131:GLY:N	9:M:1177:HOH:O	2.46	0.48
5:F:416:ARG:HD2	5:F:419:ARG:HB3	1.95	0.48
1:K:50:GLY:O	1:K:146:ARG:HA	2.13	0.48
3:N:777:PRO:HD2	3:N:912:LYS:HG3	1.94	0.48
3:N:1333:HIS:O	3:N:1336:LEU:HB3	2.13	0.48
2:M:911:GLU:O	2:M:915:LYS:HG2	2.14	0.48
2:M:193:LEU:HD23	2:M:307:LEU:HD13	1.94	0.48
3:N:427:VAL:HG13	9:N:9964:HOH:O	2.13	0.48
3:D:82:LYS:O	3:D:85:VAL:HG23	2.13	0.48
3:N:1262:LEU:HD23	3:N:1352:ILE:HG12	1.95	0.48
2:M:690:ILE:HG23	2:M:852:ILE:HA	1.95	0.48
2:C:750:LYS:HD2	9:C:1684:HOH:O	2.14	0.48
3:D:591:VAL:HG22	9:D:9420:HOH:O	2.11	0.48
2:C:69:LEU:HB2	2:C:97:ARG:HB2	1.94	0.48
2:C:98:LEU:HA	9:C:1321:HOH:O	2.12	0.48
2:M:31:GLN:HG2	9:M:1193:HOH:O	2.13	0.48
2:C:611:ILE:HG22	2:C:613:VAL:HG13	1.95	0.48
2:M:1007:ALA:HB1	3:N:652:LEU:HD22	1.95	0.48
4:O:84:ARG:HG3	4:O:84:ARG:O	2.13	0.48
2:M:876:VAL:O	2:M:879:ARG:O	2.31	0.48
2:M:799:ILE:HD13	2:M:799:ILE:N	2.27	0.48
2:C:756:VAL:HG21	2:C:823:VAL:HG11	1.95	0.48
2:C:44:ILE:O	2:C:48:PHE:HB2	2.13	0.48
1:B:71:VAL:HG22	1:B:132:LEU:HD12	1.95	0.48
3:D:1003:VAL:O	3:D:1006:ALA:HB3	2.13	0.48
5:P:169:GLU:H	5:P:169:GLU:CD	2.17	0.48
2:M:585:GLU:HG3	2:M:665:PHE:CE2	2.48	0.48
1:B:50:GLY:O	1:B:146:ARG:HA	2.13	0.48
2:C:928:LYS:HE3	9:C:1852:HOH:O	2.13	0.48
3:D:930:LEU:O	3:D:934:LEU:HG	2.14	0.48
4:E:77:GLU:HG3	9:E:139:HOH:O	2.12	0.48
2:M:144:PRO:HB2	2:M:267:TYR:CE1	2.47	0.48
2:M:464:LEU:HB2	9:M:1673:HOH:O	2.12	0.48
3:N:1086:LEU:HA	6:N:8002:STD:H30	1.96	0.48
5:F:132:ARG:HD3	5:F:181:GLU:OE1	2.14	0.48
3:N:880:ILE:HD13	3:N:880:ILE:O	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:523:ASP:O	3:N:526:PRO:HG3	2.13	0.48
5:F:397:ILE:HG21	9:F:553:HOH:O	2.13	0.48
2:M:925:TYR:C	2:M:925:TYR:CD1	2.87	0.48
3:N:434:ARG:HB2	3:N:447:VAL:HG13	1.94	0.48
5:F:256:ARG:HD3	5:F:260:ILE:HD12	1.95	0.48
3:D:911:LEU:O	3:D:915:VAL:HG23	2.14	0.48
2:C:569:VAL:HG12	2:C:996:LYS:O	2.14	0.48
2:C:274:ARG:CB	2:C:285:LEU:HD13	2.43	0.48
2:C:100:LEU:HD12	2:C:101:ILE:O	2.13	0.48
3:D:996:TRP:O	3:D:999:THR:HG22	2.13	0.48
3:D:696:HIS:CD2	4:E:59:ASN:HB2	2.48	0.48
3:N:1459:LEU:HD22	3:N:1465:ASN:HD22	1.79	0.48
3:N:715:ALA:O	3:N:764:LEU:HD12	2.13	0.48
2:C:975:TYR:N	2:C:975:TYR:HD1	2.12	0.48
3:D:926:LYS:HG3	9:D:2130:HOH:O	2.14	0.48
5:P:113:ILE:HG23	5:P:127:ILE:CG2	2.43	0.48
3:D:1413:THR:HG21	9:D:9072:HOH:O	2.14	0.48
2:M:142:ARG:NH1	2:M:325:ILE:HG12	2.28	0.48
9:N:9491:HOH:O	5:P:318:GLU:HB3	2.13	0.48
3:D:412:GLY:O	3:D:421:LEU:HB3	2.14	0.48
3:D:1263:PHE:CZ	3:D:1352:ILE:HD13	2.48	0.48
2:M:333:ILE:O	2:M:465:GLY:HA3	2.12	0.48
3:D:44:LEU:HB3	3:D:525:ARG:NH2	2.17	0.48
2:C:52:PHE:HE1	2:C:66:LEU:HG	1.79	0.48
5:P:321:ILE:HG13	5:P:329:TYR:CA	2.43	0.48
3:D:1103:HIS:HD2	3:D:1462:LEU:H	1.62	0.48
1:L:41:ARG:CZ	1:L:177:VAL:HG23	2.43	0.48
3:N:949:ILE:HD11	3:N:1023:MET:CE	2.44	0.48
3:N:551:ASN:O	3:N:555:LYS:HG3	2.13	0.48
5:P:141:VAL:O	5:P:145:PRO:HD2	2.13	0.48
1:B:199:ILE:CD1	1:B:211:LEU:HD13	2.42	0.48
3:D:1057:VAL:HG22	3:D:1069:GLU:HB3	1.95	0.48
5:P:403:LYS:NZ	5:P:406:ARG:HB2	2.28	0.48
3:D:475:LYS:O	3:D:479:GLU:HG2	2.13	0.48
3:D:141:ILE:CD1	3:D:450:TYR:HB2	2.40	0.48
2:M:495:THR:CG2	2:M:517:ARG:HE	2.27	0.48
1:B:101:LEU:HD21	1:B:113:ASP:HB3	1.95	0.48
2:C:405:ARG:O	2:C:408:ARG:HG3	2.14	0.48
2:C:203:ASP:OD1	2:C:205:GLU:HG3	2.14	0.48
5:F:399:GLN:O	5:F:403:LYS:HB2	2.14	0.48
1:A:117:VAL:HG12	9:A:324:HOH:O	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:799:LYS:O	3:N:799:LYS:HD3	2.13	0.48
5:F:154:LYS:HB2	9:F:528:HOH:O	2.13	0.48
4:E:31:LEU:HD12	4:E:32:ARG:CD	2.43	0.48
2:M:1014:SER:HB3	2:M:1017:THR:O	2.14	0.48
5:P:167:PRO:HB2	5:P:169:GLU:OE2	2.13	0.48
3:N:1103:HIS:CD2	3:N:1463:LYS:H	2.31	0.48
3:N:651:GLU:HG2	9:N:9511:HOH:O	2.14	0.48
2:M:769:PRO:HB2	9:M:1243:HOH:O	2.14	0.48
3:N:1252:ILE:HD13	9:N:9875:HOH:O	2.12	0.48
2:C:242:LEU:HD23	9:C:1166:HOH:O	2.14	0.48
3:N:186:VAL:HG13	3:N:187:LYS:N	2.28	0.48
1:A:26:GLU:HG2	1:A:27:PRO:HA	1.96	0.48
1:A:26:GLU:HG2	1:A:27:PRO:CA	2.43	0.48
5:P:184:ARG:O	5:P:188:ILE:HG13	2.14	0.48
3:D:661:MET:HA	3:D:666:ILE:CD1	2.43	0.48
3:N:115:LEU:CD1	3:N:499:VAL:HG22	2.43	0.48
3:D:1211:MET:SD	3:D:1213:ARG:HD2	2.53	0.48
5:P:137:GLY:HA2	5:P:140:ARG:HH22	1.78	0.48
2:M:751:PRO:HB2	3:N:680:GLN:HG3	1.96	0.48
2:M:395:LYS:HG2	2:M:397:GLU:HG2	1.95	0.48
2:M:643:VAL:HG13	2:M:647:GLN:CD	2.34	0.48
3:N:486:ARG:HA	3:N:489:ARG:HD3	1.95	0.48
1:L:80:LEU:HD23	3:N:867:ARG:CZ	2.44	0.48
3:D:646:LYS:HZ2	3:D:688:TRP:HE1	1.60	0.48
5:F:141:VAL:HG23	9:F:544:HOH:O	2.13	0.48
2:C:712:ALA:CB	2:C:820:ARG:HH11	2.27	0.48
1:K:58:ILE:HG21	1:K:68:ILE:HD11	1.94	0.48
2:C:585:GLU:O	2:C:588:VAL:HG22	2.13	0.48
2:M:129:ILE:HD12	2:M:134:ARG:HD2	1.95	0.48
2:C:93:PRO:HD2	9:C:1438:HOH:O	2.14	0.48
2:C:26:TYR:HH	2:C:386:PHE:HZ	1.61	0.48
2:C:27:ARG:HG3	9:C:1390:HOH:O	2.14	0.48
5:F:207:LEU:CB	5:F:212:LEU:HD12	2.44	0.48
2:M:832:LYS:HG2	9:M:1238:HOH:O	2.13	0.48
4:E:50:THR:HG23	9:E:222:HOH:O	2.13	0.48
3:N:702:LEU:HD22	3:N:716:PHE:CE1	2.49	0.48
2:M:328:LEU:HD23	2:M:437:ARG:CD	2.44	0.48
3:N:64:LYS:HD3	5:P:377:ASP:OD2	2.13	0.48
2:C:1010:THR:HG21	5:F:341:PRO:HB2	1.94	0.48
5:F:411:HIS:HB2	9:F:455:HOH:O	2.14	0.48
3:D:395:VAL:HG21	9:D:9114:HOH:O	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:752:GLY:O	3:N:679:ARG:HG2	2.13	0.48
3:N:1437:ALA:O	3:N:1446:VAL:HG21	2.13	0.48
2:C:625:LEU:HD11	2:C:641:PRO:HG3	1.96	0.48
2:C:171:TRP:HB2	9:C:1835:HOH:O	2.13	0.48
2:C:15:LEU:HD12	2:C:15:LEU:H	1.79	0.48
1:A:150:TYR:HE1	2:C:696:LYS:HA	1.78	0.48
2:C:831:ARG:HG2	2:C:831:ARG:HH11	1.77	0.48
4:O:35:PHE:HZ	4:O:60:ALA:HA	1.79	0.48
2:M:132:ALA:HB1	2:M:632:ASN:ND2	2.26	0.48
2:M:460:ARG:HG2	2:M:460:ARG:HH11	1.78	0.48
3:D:154:THR:HG22	3:D:157:GLU:CD	2.33	0.48
2:C:1044:GLY:HA3	4:E:17:TYR:CE1	2.49	0.48
3:D:1393:GLN:HB2	3:D:1398:TRP:HZ2	1.77	0.48
1:A:76:VAL:O	1:A:79:ILE:HG13	2.13	0.48
5:P:85:LEU:HB3	9:P:3605:HOH:O	2.14	0.48
2:C:813:VAL:HG11	9:C:1461:HOH:O	2.13	0.48
5:F:369:LEU:HD11	5:F:401:GLU:HB2	1.94	0.48
1:K:50:GLY:HA3	1:K:173:PRO:HG3	1.96	0.48
2:M:1001:VAL:HA	9:M:1286:HOH:O	2.13	0.48
2:M:952:LEU:HD12	2:M:969:GLN:NE2	2.29	0.48
2:M:248:PRO:HG3	9:M:1752:HOH:O	2.14	0.48
1:L:173:PRO:HA	1:L:202:ASP:OD2	2.14	0.48
1:A:162:ILE:HA	9:A:494:HOH:O	2.14	0.48
2:M:268:ASP:HB2	9:M:1657:HOH:O	2.13	0.48
3:N:126:VAL:HG12	3:N:132:TYR:HB2	1.96	0.48
2:M:163:ILE:HG13	2:M:163:ILE:O	2.14	0.48
2:M:1115:LEU:HD23	3:N:85:VAL:CG1	2.44	0.48
3:N:1397:LYS:HD3	9:N:2162:HOH:O	2.13	0.48
1:A:29:GLU:HB2	1:A:32:PHE:HD1	1.79	0.48
5:P:350:LEU:HD23	5:P:351:SER:H	1.78	0.48
3:D:83:SER:O	3:D:86:ARG:HB3	2.14	0.48
2:C:1098:ASP:HB3	9:C:1791:HOH:O	2.14	0.48
2:M:439:CYS:HB2	9:M:1316:HOH:O	2.13	0.48
2:M:1018:GLN:HE21	2:M:1063:ARG:NH2	2.12	0.48
3:N:396:VAL:HG22	9:N:9364:HOH:O	2.14	0.48
3:D:1046:GLN:HG3	9:D:9074:HOH:O	2.14	0.48
2:M:1008:ARG:HE	2:M:1028:GLY:CA	2.26	0.48
3:D:441:ARG:O	3:D:443:VAL:N	2.46	0.48
1:L:101:LEU:HD12	1:L:114:PHE:CE1	2.48	0.48
2:M:513:VAL:HG12	9:M:1155:HOH:O	2.13	0.48
2:C:732:ALA:HA	2:C:735:ARG:CZ	2.43	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:154:LYS:HG2	9:F:744:HOH:O	2.14	0.48
3:N:583:ASP:HB2	3:N:604:THR:OG1	2.13	0.48
3:N:781:PRO:HB3	3:N:785:ILE:CG2	2.43	0.48
3:N:819:GLY:HA2	9:N:9097:HOH:O	2.13	0.48
3:D:1505:ALA:HB3	9:D:9104:HOH:O	2.12	0.48
3:N:1397:LYS:O	3:N:1400:VAL:HB	2.14	0.48
3:D:1235:GLN:C	3:D:1359:GLN:HE22	2.17	0.48
3:N:9:ARG:HA	3:N:1455:LYS:O	2.12	0.48
5:F:109:GLY:O	5:F:112:ALA:HB3	2.14	0.48
5:F:122:LEU:HD23	9:F:445:HOH:O	2.13	0.48
5:F:247:ILE:HG22	5:F:251:ILE:CD1	2.43	0.48
2:M:537:LYS:HG3	2:M:905:ILE:CD1	2.44	0.48
1:B:52:ALA:N	9:B:467:HOH:O	2.47	0.48
3:N:58:CYS:SG	3:N:59:ALA:N	2.87	0.48
3:D:90:MET:CE	3:D:518:PRO:HB3	2.43	0.48
3:D:190:GLU:HG3	3:D:210:ARG:HD3	1.95	0.48
2:M:250:ARG:HG2	9:M:2036:HOH:O	2.12	0.48
1:L:132:LEU:HG	1:L:136:GLY:HA3	1.95	0.48
9:M:1452:HOH:O	5:P:423:ASP:HB3	2.14	0.48
1:A:54:THR:HG23	1:A:156:HIS:CE1	2.47	0.48
3:N:1192:LEU:HD21	3:N:1372:VAL:CG1	2.44	0.48
1:K:23:PHE:O	1:K:196:THR:HA	2.14	0.48
2:M:944:LEU:HD11	2:M:963:LEU:CD2	2.44	0.48
2:M:495:THR:HG23	2:M:517:ARG:HE	1.78	0.48
3:D:175:VAL:HG11	9:D:2479:HOH:O	2.13	0.48
2:C:958:THR:HG21	9:C:1582:HOH:O	2.13	0.48
2:M:1101:THR:HB	3:N:5:VAL:HG11	1.94	0.48
5:P:94:LEU:HD22	5:P:97:GLU:CB	2.43	0.48
5:P:94:LEU:H	5:P:98:GLU:CD	2.16	0.48
3:N:1379:VAL:HA	3:N:1420:LEU:HB3	1.96	0.48
2:C:139:GLN:HE22	2:C:415:PRO:CD	2.26	0.48
1:B:173:PRO:HA	1:B:202:ASP:OD2	2.14	0.48
2:M:839:LEU:N	2:M:839:LEU:HD23	2.29	0.48
3:D:867:ARG:HD3	9:D:9106:HOH:O	2.14	0.48
3:N:1319:VAL:HG11	3:N:1325:LEU:HD11	1.95	0.48
1:K:90:LEU:HD21	9:K:4206:HOH:O	2.12	0.48
1:A:197:LEU:HD23	1:A:197:LEU:N	2.29	0.48
3:N:431:VAL:HG13	9:N:9125:HOH:O	2.14	0.48
2:M:183:SER:HB3	2:M:190:LYS:HD3	1.95	0.47
2:M:47:ALA:O	2:M:50:GLU:HB3	2.13	0.47
3:D:86:ARG:NH1	3:D:86:ARG:HG2	2.28	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:502:PRO:HB2	2:C:509:ALA:HB3	1.95	0.47
3:N:1114:THR:CG2	3:N:1195:GLN:HB3	2.44	0.47
3:D:1312:LEU:HD21	3:D:1327:ARG:HG3	1.94	0.47
3:N:1476:THR:HG23	4:O:21:VAL:CG2	2.41	0.47
3:N:1476:THR:CG2	4:O:21:VAL:HG22	2.40	0.47
2:M:253:ALA:HB3	9:M:2036:HOH:O	2.13	0.47
4:O:89:MET:HA	9:O:3549:HOH:O	2.13	0.47
2:C:626:ARG:N	2:C:639:GLN:NE2	2.59	0.47
3:D:493:ARG:HE	3:D:1388:ARG:HB3	1.79	0.47
2:M:34:VAL:HB	2:M:38:LYS:CG	2.44	0.47
3:N:628:ARG:HH11	3:N:744:GLN:NE2	2.11	0.47
5:F:154:LYS:O	5:F:158:GLU:HG3	2.14	0.47
3:N:908:LYS:HD3	3:N:1027:GLY:HA3	1.95	0.47
3:N:785:ILE:HG12	3:N:935:LYS:HA	1.95	0.47
3:D:439:LEU:HD11	9:F:435:HOH:O	2.14	0.47
3:N:591:VAL:CG1	3:N:597:ASP:HA	2.44	0.47
2:C:1113:GLU:HG3	9:C:1553:HOH:O	2.13	0.47
9:M:1567:HOH:O	3:N:89:ARG:HG3	2.13	0.47
3:N:81:THR:HG22	3:N:82:LYS:N	2.29	0.47
2:M:433:THR:O	2:M:437:ARG:HD2	2.14	0.47
2:M:437:ARG:O	2:M:467:ILE:HG21	2.14	0.47
2:M:1090:LYS:HG2	2:M:1112:PHE:CZ	2.49	0.47
3:N:87:ARG:HB3	3:N:523:ASP:HB2	1.95	0.47
3:D:191:LEU:HD12	9:D:9609:HOH:O	2.13	0.47
5:P:142:ARG:HH11	5:P:142:ARG:CB	2.21	0.47
3:N:814:ALA:O	3:N:818:ARG:HG3	2.14	0.47
1:A:156:HIS:CD2	1:A:157:GLY:N	2.81	0.47
2:M:31:GLN:HA	9:M:1193:HOH:O	2.12	0.47
2:C:554:ASP:HB3	9:C:1189:HOH:O	2.14	0.47
2:M:20:GLU:HG3	9:M:1572:HOH:O	2.14	0.47
3:N:1403:LEU:O	3:N:1407:LEU:HB2	2.14	0.47
1:K:47:SER:HB3	1:K:217:ILE:HD13	1.96	0.47
2:C:589:ARG:HB2	9:C:1302:HOH:O	2.14	0.47
2:C:863:ASP:O	2:C:865:THR:N	2.47	0.47
2:C:165:LEU:HD13	9:C:1871:HOH:O	2.13	0.47
3:D:960:LYS:NZ	3:D:1041:LEU:HB3	2.29	0.47
2:M:211:LEU:HD11	2:M:308:ARG:HA	1.96	0.47
3:D:10:ILE:HG13	3:D:1434:TRP:CE2	2.49	0.47
3:D:119:SER:H	3:D:123:LEU:HD13	1.79	0.47
3:N:41:ARG:NH1	3:N:42:ASP:HB2	2.29	0.47
3:D:661:MET:HE2	3:D:673:ALA:HB1	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:880:ILE:HB	9:N:9245:HOH:O	2.14	0.47
3:N:15:PRO:HA	3:N:18:ILE:CG1	2.43	0.47
3:N:33:ASN:OD1	5:P:259:ARG:HB3	2.15	0.47
2:C:1111:ILE:HG13	2:C:1112:PHE:N	2.25	0.47
3:N:1314:LYS:HZ1	3:N:1317:ASP:H	1.61	0.47
2:M:1018:GLN:HE21	2:M:1060:ILE:CD1	2.21	0.47
3:N:1120:VAL:HB	3:N:1144:LEU:HD21	1.96	0.47
2:C:690:ILE:HD11	2:C:694:LEU:HB2	1.96	0.47
3:N:858:VAL:HA	9:N:9278:HOH:O	2.14	0.47
3:N:1156:LEU:CD1	3:N:1176:LYS:HD2	2.44	0.47
2:C:815:LEU:HD23	9:C:1733:HOH:O	2.14	0.47
1:B:69:PRO:HB2	9:B:413:HOH:O	2.13	0.47
2:M:167:LYS:HD3	2:M:168:ARG:N	2.28	0.47
3:D:1455:LYS:C	3:D:1455:LYS:HD3	2.35	0.47
3:D:844:ALA:HA	3:D:867:ARG:NH1	2.30	0.47
3:D:799:LYS:H	3:D:826:PRO:HG2	1.79	0.47
3:D:102:ILE:HD12	9:D:9788:HOH:O	2.14	0.47
2:M:299:LYS:HB2	9:M:1182:HOH:O	2.15	0.47
3:N:423:ASP:HB2	5:P:178:ARG:HD2	1.96	0.47
2:C:173:ASP:HB3	9:C:1237:HOH:O	2.15	0.47
3:N:136:ASP:HB2	3:N:137:PRO:HD3	1.97	0.47
5:F:128:ARG:O	5:F:132:ARG:HG2	2.15	0.47
2:C:52:PHE:O	2:C:54:ILE:N	2.47	0.47
2:C:64:LEU:HB2	2:C:359:MET:SD	2.54	0.47
3:N:52:PRO:HD2	3:N:79:GLU:O	2.14	0.47
3:N:12:LEU:HD11	3:N:512:MET:HG2	1.94	0.47
3:D:1468:LEU:HD22	3:D:1470:ARG:CB	2.45	0.47
3:D:1197:ARG:HH11	3:D:1198:TYR:HD1	1.61	0.47
3:D:1397:LYS:HG2	9:D:9862:HOH:O	2.14	0.47
2:C:710:ILE:CB	2:C:790:LEU:HD13	2.40	0.47
3:N:133:ILE:HG21	3:N:454:ALA:CB	2.41	0.47
3:N:1065:LEU:HD12	3:N:1070:TYR:HB2	1.95	0.47
2:C:575:GLN:HB2	2:C:670:GLN:OE1	2.14	0.47
2:C:292:ARG:HD2	2:C:299:LYS:HD3	1.96	0.47
2:M:80:GLN:O	2:M:83:CYS:HB2	2.14	0.47
3:D:1475:GLY:HA2	4:E:17:TYR:HE1	1.80	0.47
3:N:1051:GLU:HG3	3:N:1051:GLU:H	1.54	0.47
2:M:583:LEU:HD12	2:M:583:LEU:N	2.29	0.47
2:M:127:PHE:O	2:M:133:ASP:HA	2.14	0.47
2:C:140:ILE:HG13	2:C:410:ILE:CG2	2.44	0.47
2:C:1076:VAL:HG23	3:D:752:SER:HA	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1268:PRO:HG2	3:D:1329:ALA:HB1	1.97	0.47
5:P:398:ARG:NH1	9:P:6264:HOH:O	2.47	0.47
2:M:256:TYR:CE1	2:M:293:PHE:HB2	2.49	0.47
2:M:50:GLU:HG3	9:M:1427:HOH:O	2.15	0.47
2:C:199:VAL:HG13	2:C:235:LEU:HG	1.95	0.47
3:N:1195:GLN:OE1	3:N:1196:THR:N	2.48	0.47
2:C:54:ILE:HA	9:C:1626:HOH:O	2.14	0.47
3:D:454:ALA:C	3:D:455:ARG:HD2	2.35	0.47
3:N:493:ARG:NH2	3:N:1388:ARG:HB3	2.21	0.47
3:N:170:PRO:HG2	9:N:2108:HOH:O	2.14	0.47
3:D:1084:THR:HA	3:D:1087:ARG:NH1	2.30	0.47
2:M:751:PRO:HA	2:M:792:VAL:CG1	2.44	0.47
3:N:681:ARG:NH1	3:N:681:ARG:HB3	2.30	0.47
1:B:176:ARG:NH2	3:D:884:ARG:HD3	2.24	0.47
2:M:643:VAL:HG13	2:M:647:GLN:OE1	2.14	0.47
3:D:1403:LEU:O	3:D:1407:LEU:HD12	2.14	0.47
2:M:402:SER:HA	2:M:566:THR:HG23	1.95	0.47
1:K:19:GLU:CD	1:K:19:GLU:H	2.17	0.47
2:M:941:VAL:O	2:M:944:LEU:HB2	2.14	0.47
4:E:48:MET:HB3	4:E:54:LEU:HB2	1.95	0.47
2:C:376:ARG:HG2	9:C:1987:HOH:O	2.14	0.47
3:N:828:LYS:HB3	9:N:9243:HOH:O	2.15	0.47
5:F:302:LYS:HG3	5:F:303:ARG:N	2.28	0.47
2:C:654:LEU:HD13	2:C:664:GLY:N	2.29	0.47
2:C:86:LYS:CG	2:C:813:VAL:HG12	2.44	0.47
2:M:1103:ASP:OD1	3:N:3:LYS:HB2	2.14	0.47
3:N:1119:SER:HA	3:N:1186:VAL:O	2.14	0.47
3:D:42:ASP:O	3:D:46:ASP:HB2	2.14	0.47
3:N:1104:GLU:HA	3:N:1461:GLY:HA2	1.95	0.47
2:M:217:LEU:HG	9:M:1729:HOH:O	2.13	0.47
2:C:776:SER:HA	2:C:780:GLU:HB3	1.96	0.47
3:D:1031:ASN:O	3:D:1035:ILE:HG12	2.15	0.47
2:C:897:LEU:HB3	2:C:899:GLN:HG2	1.97	0.47
2:C:915:LYS:O	2:C:968:LEU:HD22	2.15	0.47
5:P:93:LEU:HG	5:P:190:ALA:CB	2.44	0.47
1:B:188:GLN:HG3	9:D:9361:HOH:O	2.14	0.47
9:M:1607:HOH:O	3:N:647:ARG:HG3	2.15	0.47
2:M:801:VAL:HG12	9:M:1569:HOH:O	2.13	0.47
2:M:260:LEU:HD21	9:M:1166:HOH:O	2.15	0.47
2:M:290:LEU:HB2	9:M:2147:HOH:O	2.14	0.47
2:C:199:VAL:HG13	2:C:235:LEU:CD2	2.44	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:795:VAL:CG1	3:D:863:VAL:HG13	2.40	0.47
2:C:987:ILE:CG2	3:D:948:THR:HG21	2.37	0.47
2:C:352:ALA:HA	2:C:355:VAL:CG1	2.44	0.47
2:M:670:GLN:O	2:M:672:VAL:HG13	2.14	0.47
3:N:861:GLN:H	3:N:861:GLN:CD	2.18	0.47
3:N:861:GLN:N	3:N:861:GLN:CD	2.68	0.47
2:C:332:ARG:NE	2:C:464:LEU:HD11	2.25	0.47
3:N:696:HIS:HB2	4:O:48:MET:HE1	1.95	0.47
3:N:693:GLU:HA	4:O:48:MET:CE	2.44	0.47
5:P:399:GLN:O	5:P:403:LYS:HB2	2.14	0.47
2:C:575:GLN:C	2:C:667:ALA:HB1	2.35	0.47
2:C:679:PHE:C	3:D:943:THR:HG22	2.34	0.47
3:N:1223:ILE:HD12	9:N:9798:HOH:O	2.14	0.47
1:A:128:HIS:HB2	9:A:329:HOH:O	2.14	0.47
2:C:65:VAL:HB	2:C:101:ILE:HB	1.96	0.47
5:F:292:ALA:HB1	5:F:299:TRP:O	2.14	0.47
2:C:117:HIS:HD2	9:C:1136:HOH:O	1.97	0.47
2:C:212:GLY:C	2:C:215:GLY:H	2.18	0.47
2:M:44:ILE:HA	2:M:344:PHE:HE1	1.78	0.47
2:C:426:ASP:HB2	9:C:1138:HOH:O	2.15	0.47
3:D:1123:PHE:HA	3:D:1133:ARG:O	2.15	0.47
3:D:41:ARG:HD3	3:D:42:ASP:H	1.80	0.47
1:K:186:LEU:CB	1:K:192:LEU:HD11	2.44	0.47
5:P:287:THR:O	5:P:289:GLU:N	2.46	0.47
2:M:890:LEU:HA	2:M:914:ILE:HD11	1.96	0.47
2:C:918:LEU:HD23	2:C:968:LEU:HA	1.96	0.47
1:L:150:TYR:CE2	3:N:857:ILE:HG13	2.49	0.47
3:N:930:LEU:O	3:N:934:LEU:HG	2.14	0.47
2:C:620:LEU:HD13	2:C:620:LEU:N	2.29	0.47
3:D:385:VAL:HA	9:D:9728:HOH:O	2.15	0.47
5:P:104:ARG:HA	5:P:229:TYR:CE1	2.48	0.47
1:A:122:ILE:N	1:A:122:ILE:HD12	2.29	0.47
3:N:811:GLU:HA	9:N:9613:HOH:O	2.14	0.47
2:M:148:PHE:CZ	2:M:309:TYR:HB3	2.50	0.47
3:N:177:ALA:HB1	3:N:199:LEU:HB3	1.96	0.47
3:N:181:ASP:O	3:N:185:VAL:HG23	2.15	0.47
3:D:427:VAL:HA	9:D:9128:HOH:O	2.14	0.47
2:M:637:LEU:HA	2:M:659:PRO:HG3	1.97	0.47
1:A:14:ARG:HB3	9:A:477:HOH:O	2.13	0.47
2:M:139:GLN:HE22	2:M:415:PRO:CD	2.28	0.47
3:N:139:GLY:HA3	3:N:452:ILE:HD12	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:P:375:LEU:HD23	5:P:376:ILE:HG13	1.95	0.47
2:C:328:LEU:HD13	2:C:433:THR:CB	2.40	0.47
5:F:112:ALA:O	5:F:116:LEU:HG	2.14	0.47
2:M:1090:LYS:HG2	2:M:1112:PHE:HZ	1.80	0.47
5:F:319:THR:N	9:F:522:HOH:O	2.46	0.47
3:N:22:SER:HA	3:N:90:MET:O	2.15	0.47
3:N:526:PRO:HB2	5:P:317:LEU:HD11	1.97	0.47
1:B:124:ASN:OD1	1:B:127:LEU:HB2	2.14	0.47
2:M:926:PHE:HE1	2:M:929:ARG:NH2	2.13	0.47
3:D:1264:GLU:OE2	3:D:1424:VAL:HG12	2.14	0.47
3:D:1432:LYS:HD2	3:D:1433:SER:N	2.29	0.47
2:C:244:PRO:HD3	9:C:1182:HOH:O	2.15	0.47
3:D:139:GLY:H	3:D:147:VAL:HG21	1.80	0.47
1:L:109:VAL:HG21	1:L:138:LEU:HD21	1.97	0.47
1:L:23:PHE:HB2	1:L:197:LEU:HD23	1.95	0.47
4:O:93:TYR:HA	4:O:94:PRO:HD3	1.71	0.47
3:D:699:VAL:HA	3:D:718:PRO:HD3	1.97	0.47
2:M:52:PHE:HE1	2:M:66:LEU:HG	1.79	0.47
3:D:496:LEU:HD23	9:D:9266:HOH:O	2.15	0.47
2:M:721:ARG:NH2	2:M:783:ARG:HH21	2.09	0.47
2:C:264:PRO:HB3	2:C:289:THR:HB	1.96	0.47
1:K:19:GLU:O	1:K:200:TRP:HA	2.14	0.47
1:A:219:ARG:O	1:A:223:THR:HG23	2.14	0.47
5:P:291:ILE:HG12	5:P:304:VAL:CG1	2.45	0.47
2:M:748:GLU:HB2	9:M:1434:HOH:O	2.14	0.47
3:D:650:LEU:HD13	3:D:688:TRP:CZ3	2.46	0.47
5:F:141:VAL:O	5:F:145:PRO:HD2	2.15	0.47
3:N:764:LEU:HD12	3:N:765:SER:N	2.30	0.47
5:F:270:LYS:HB3	5:F:295:MET:HE3	1.97	0.47
2:C:480:THR:HG22	2:C:481:ASP:N	2.30	0.47
2:M:1033:GLY:O	2:M:1037:VAL:HG23	2.15	0.47
2:M:998:TYR:OH	2:M:1000:MET:HA	2.15	0.47
3:D:625:TYR:CD1	3:D:625:TYR:N	2.83	0.47
5:F:129:GLU:HB3	5:F:142:ARG:HH21	1.80	0.47
1:A:106:PRO:HG3	1:A:133:GLU:O	2.15	0.47
3:N:907:GLU:OE1	3:N:909:ASN:HB2	2.14	0.47
3:D:768:ASN:N	3:D:768:ASN:ND2	2.63	0.47
1:L:173:PRO:HG3	9:L:4500:HOH:O	2.15	0.47
2:M:500:ASN:HD21	3:N:1067:VAL:CG2	2.28	0.47
1:B:121:GLU:HB2	9:B:567:HOH:O	2.13	0.47
5:F:342:VAL:HG21	9:F:789:HOH:O	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:165:SER:HB3	9:F:743:HOH:O	2.14	0.47
4:O:87:LYS:HD2	9:O:4461:HOH:O	2.15	0.47
2:C:29:ALA:HB2	2:C:337:GLY:CA	2.44	0.47
5:P:263:HIS:HB2	9:P:3994:HOH:O	2.13	0.47
3:N:176:ASP:HA	9:N:9640:HOH:O	2.15	0.47
2:M:606:VAL:CG2	2:M:645:VAL:HG22	2.45	0.47
5:P:414:ARG:HD3	9:P:4633:HOH:O	2.15	0.47
1:K:85:LEU:HA	1:K:124:ASN:HD22	1.80	0.47
3:D:1237:THR:HG22	3:D:1238:MET:N	2.30	0.47
3:D:1192:LEU:HD22	3:D:1345:GLU:HG2	1.96	0.47
3:D:1438:ALA:N	3:D:1446:VAL:HG11	2.29	0.47
3:N:452:ILE:HG23	3:N:452:ILE:O	2.14	0.47
3:D:44:LEU:O	3:D:525:ARG:NH2	2.47	0.47
2:C:1013:TYR:C	2:C:1021:LEU:HD23	2.35	0.47
5:F:328:PHE:HA	9:F:522:HOH:O	2.14	0.47
2:M:1063:ARG:O	2:M:1066:ALA:HB3	2.14	0.47
3:N:704:ARG:CD	3:N:705:ALA:H	2.19	0.47
3:D:568:ARG:O	3:D:572:ARG:HG3	2.14	0.47
3:D:1234:THR:HG23	9:D:9918:HOH:O	2.14	0.47
1:B:23:PHE:O	1:B:196:THR:HA	2.15	0.47
1:L:158:ILE:HD13	9:L:5309:HOH:O	2.14	0.47
3:N:1037:GLN:OE1	3:N:1042:ARG:HB3	2.15	0.47
3:N:1059:SER:OG	3:N:1065:LEU:HA	2.15	0.47
3:N:438:ASP:HB2	9:N:2136:HOH:O	2.14	0.47
2:C:589:ARG:HG2	9:C:1768:HOH:O	2.14	0.47
2:M:385:PHE:HA	9:M:1703:HOH:O	2.14	0.47
1:L:76:VAL:HA	1:L:79:ILE:HG12	1.95	0.47
2:M:137:VAL:O	2:M:391:LEU:HD21	2.14	0.47
3:N:528:VAL:HG12	3:N:529:GLN:N	2.30	0.47
2:M:1040:LEU:HD21	2:M:1048:THR:HG22	1.96	0.47
3:N:607:LEU:HA	3:N:613:ARG:HB2	1.97	0.47
3:N:758:GLU:OE1	4:O:20:THR:HG21	2.14	0.47
5:F:226:LYS:HA	9:F:842:HOH:O	2.14	0.47
2:C:634:GLY:HA3	9:C:2212:HOH:O	2.14	0.47
4:O:52:GLU:HG2	9:O:3988:HOH:O	2.15	0.47
1:A:72:LYS:HA	2:C:608:GLY:CA	2.45	0.47
1:A:175:ARG:HB3	9:A:478:HOH:O	2.15	0.47
2:M:264:PRO:HB3	2:M:289:THR:CG2	2.45	0.47
2:M:260:LEU:HA	2:M:291:ALA:CB	2.45	0.47
5:P:218:GLN:NE2	9:P:5398:HOH:O	2.48	0.47
2:C:56:GLU:CG	2:C:64:LEU:HD23	2.44	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:1090:LYS:HA	2:M:1090:LYS:HD2	1.72	0.47
2:C:1060:ILE:HB	2:C:1083:GLU:HG3	1.97	0.47
3:D:601:ARG:NH2	3:D:612:GLY:HA2	2.30	0.47
5:P:358:LEU:CD2	5:P:370:LYS:HE3	2.43	0.47
3:D:1101:VAL:CG2	3:D:1424:VAL:HG22	2.40	0.47
1:L:105:GLY:O	1:L:132:LEU:HB3	2.15	0.47
3:D:637:LEU:HD21	3:D:643:GLY:H	1.80	0.47
2:C:691:SER:HB3	2:C:868:ASP:O	2.15	0.47
3:N:864:VAL:HG12	3:N:865:THR:H	1.79	0.47
3:D:929:ARG:HH11	3:D:929:ARG:CG	2.28	0.47
9:D:9452:HOH:O	5:F:315:VAL:HB	2.14	0.47
5:F:270:LYS:HB3	5:F:295:MET:CE	2.44	0.47
3:N:1063:GLU:HG2	9:N:9788:HOH:O	2.15	0.47
3:N:799:LYS:HE2	3:N:824:ASN:O	2.15	0.47
3:D:152:LEU:HG	9:D:2087:HOH:O	2.15	0.47
1:K:150:TYR:CD1	2:M:696:LYS:HG2	2.50	0.47
4:O:42:PRO:HB2	9:O:5960:HOH:O	2.13	0.47
1:A:97:VAL:HG12	1:A:99:LEU:HD12	1.97	0.47
1:A:99:LEU:HB3	1:A:114:PHE:CD2	2.49	0.47
1:A:66:SER:O	1:A:75:VAL:HG23	2.15	0.47
2:M:795:GLY:HA3	2:M:1004:LYS:HD2	1.97	0.47
3:D:708:LEU:HB2	9:D:9664:HOH:O	2.15	0.47
3:D:1252:ILE:HD12	3:D:1253:THR:H	1.79	0.47
3:D:729:HIS:CE1	3:D:731:LEU:H	2.33	0.47
1:L:52:ALA:HB2	1:L:170:VAL:O	2.14	0.47
3:N:1422:MET:HE3	3:N:1427:SER:HA	1.97	0.47
3:N:897:TRP:HB3	9:N:9323:HOH:O	2.14	0.47
3:N:1139:ASP:O	3:N:1142:ALA:HB3	2.15	0.47
2:M:184:MET:HB2	2:M:193:LEU:HD12	1.96	0.47
3:N:179:VAL:O	3:N:183:GLU:HB2	2.15	0.47
3:N:1086:LEU:N	6:N:8002:STD:H32	2.30	0.47
2:C:183:SER:HB2	2:C:190:LYS:CG	2.45	0.47
2:C:433:THR:C	2:C:435:TYR:H	2.18	0.47
3:N:470:LEU:HB2	3:N:503:LEU:HD21	1.95	0.47
3:N:502:PHE:CE1	3:N:509:PRO:HB3	2.50	0.47
2:C:1088:LEU:HD23	2:C:1089:VAL:N	2.30	0.47
2:C:1090:LYS:HG2	2:C:1112:PHE:CZ	2.50	0.47
3:D:171:LEU:HD13	3:D:389:GLU:C	2.36	0.47
3:N:693:GLU:HA	4:O:48:MET:HE1	1.97	0.47
5:P:314:PRO:HD2	9:P:4412:HOH:O	2.15	0.47
2:C:137:VAL:O	2:C:391:LEU:HD11	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1059:SER:HB3	9:D:9310:HOH:O	2.15	0.47
2:C:625:LEU:O	2:C:627:ARG:N	2.48	0.47
2:M:810:ASP:HA	2:M:811:PRO:HD3	1.73	0.47
2:C:873:PRO:O	2:C:876:VAL:HG23	2.15	0.47
2:C:759:THR:HB	2:C:785:VAL:CG2	2.45	0.47
2:M:374:ASN:HD21	2:M:376:ARG:HB2	1.80	0.47
2:C:473:ARG:HG3	2:C:474:VAL:N	2.29	0.47
2:C:147:TYR:HE2	2:C:280:LYS:HE2	1.79	0.47
2:M:953:VAL:HA	2:M:965:GLU:OE1	2.14	0.47
5:P:356:LYS:HE3	9:P:5784:HOH:O	2.15	0.47
1:A:48:ILE:HG22	1:A:173:PRO:CD	2.45	0.47
2:M:102:HIS:HB2	2:M:106:GLY:O	2.15	0.47
2:C:950:LEU:HD12	2:C:952:LEU:HD21	1.97	0.47
1:K:149:GLY:O	1:K:171:PHE:HB2	2.14	0.47
9:K:5385:HOH:O	2:M:938:LYS:HE2	2.14	0.47
3:D:34:TYR:OH	5:F:261:PRO:HD2	2.15	0.47
2:C:470:PRO:HB3	2:C:485:TYR:CZ	2.50	0.46
2:M:428:ARG:NH2	2:M:451:LEU:HD11	2.31	0.46
2:C:220:GLY:HA3	9:C:1151:HOH:O	2.16	0.46
5:F:132:ARG:NH2	5:F:184:ARG:HH12	2.13	0.46
2:M:115:LEU:HD22	2:M:373:VAL:CG1	2.34	0.46
2:M:571:LEU:HD21	2:M:700:TYR:CD2	2.50	0.46
2:M:625:LEU:O	2:M:627:ARG:N	2.47	0.46
2:C:200:LEU:HD13	2:C:300:ASP:CG	2.35	0.46
3:N:118:LEU:HB2	9:N:9568:HOH:O	2.15	0.46
3:N:127:LEU:HD12	3:N:128:TYR:HD1	1.80	0.46
2:C:1031:ARG:HG3	2:C:1031:ARG:NH1	2.29	0.46
3:D:1053:PHE:CE1	3:D:1072:ILE:HG23	2.50	0.46
2:C:882:LEU:HD23	2:C:885:ILE:HB	1.96	0.46
2:C:886:LEU:CD2	3:D:951:ILE:HG13	2.45	0.46
2:C:701:THR:HG23	2:C:832:LYS:HA	1.97	0.46
3:N:643:GLY:HA2	3:N:719:VAL:HG23	1.97	0.46
3:N:1084:THR:HA	3:N:1087:ARG:NH2	2.30	0.46
2:M:780:GLU:OE2	2:M:781:LYS:HG3	2.16	0.46
4:E:17:TYR:O	4:E:21:VAL:HG23	2.14	0.46
3:D:1102:THR:HG22	3:D:1222:GLY:CA	2.43	0.46
2:C:129:ILE:HD11	2:C:386:PHE:HD2	1.79	0.46
3:D:957:PRO:CG	3:D:1007:VAL:HG12	2.44	0.46
2:M:648:ARG:HB3	9:M:1146:HOH:O	2.14	0.46
2:M:248:PRO:HD2	9:M:1314:HOH:O	2.14	0.46
1:A:122:ILE:HD12	1:A:122:ILE:H	1.80	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:115:LEU:O	1:A:115:LEU:HD12	2.15	0.46
2:M:1038:TRP:HD1	2:M:1041:GLU:OE1	1.98	0.46
1:K:32:PHE:HZ	1:L:47:SER:HG	1.60	0.46
2:C:216:GLU:OE1	2:C:217:LEU:HG	2.14	0.46
2:M:735:ARG:HB2	9:M:1788:HOH:O	2.15	0.46
2:M:191:PHE:HE2	2:M:196:LEU:HB2	1.79	0.46
2:M:342:ASP:O	2:M:346:VAL:HG23	2.15	0.46
2:M:139:GLN:HE21	2:M:334:ARG:CD	2.29	0.46
3:D:1462:LEU:HD22	3:D:1472:ILE:CG2	2.44	0.46
3:D:434:ARG:HD2	9:D:2137:HOH:O	2.15	0.46
1:L:14:ARG:HH22	1:L:24:VAL:CG2	2.29	0.46
3:N:681:ARG:HA	9:N:2260:HOH:O	2.15	0.46
3:D:54:LYS:HD3	3:D:57:GLU:OE2	2.14	0.46
3:D:493:ARG:HH21	3:D:1388:ARG:HB3	1.78	0.46
2:C:876:VAL:HB	3:D:949:ILE:HG13	1.98	0.46
2:C:269:LEU:HG	9:C:1623:HOH:O	2.14	0.46
3:N:1326:THR:HG22	3:N:1327:ARG:N	2.29	0.46
3:N:441:ARG:O	3:N:443:VAL:N	2.48	0.46
2:M:12:VAL:HG22	2:M:13:ILE:HG23	1.96	0.46
2:C:815:LEU:HD21	2:C:820:ARG:O	2.15	0.46
2:C:229:MET:HE1	9:C:1650:HOH:O	2.15	0.46
3:D:1393:GLN:HB2	3:D:1398:TRP:NE1	2.30	0.46
2:M:708:TYR:N	2:M:708:TYR:CD1	2.82	0.46
3:D:1362:LYS:HE2	9:D:9177:HOH:O	2.14	0.46
3:D:1274:ILE:HD12	9:D:2452:HOH:O	2.15	0.46
2:C:55:GLU:HG2	9:C:2078:HOH:O	2.15	0.46
2:M:145:GLY:H	2:M:163:ILE:HG13	1.81	0.46
3:D:537:THR:HG23	9:D:9070:HOH:O	2.14	0.46
2:C:3:ILE:HD13	2:C:900:ARG:O	2.16	0.46
2:C:305:PRO:HB3	2:C:308:ARG:NH2	2.19	0.46
3:D:1219:GLU:C	9:D:9516:HOH:O	2.53	0.46
2:C:675:ALA:CA	2:C:989:VAL:HG12	2.40	0.46
2:M:285:LEU:HD12	2:M:288:ARG:O	2.15	0.46
1:B:23:PHE:HZ	1:B:207:PRO:HB2	1.80	0.46
3:D:616:GLN:HE21	3:D:619:LEU:HD13	1.80	0.46
2:M:403:SER:O	2:M:407:LYS:HG3	2.15	0.46
2:C:569:VAL:O	2:C:571:LEU:HD12	2.14	0.46
2:C:549:PHE:CE2	2:C:886:LEU:HB3	2.50	0.46
3:N:546:ARG:NH2	3:N:550:ARG:HH22	2.12	0.46
3:N:550:ARG:HG3	3:N:550:ARG:NH1	2.29	0.46
3:D:744:GLN:CD	9:D:9834:HOH:O	2.52	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:199:ILE:HD12	1:K:199:ILE:N	2.31	0.46
3:D:410:SER:CB	3:D:414:ARG:HH21	2.29	0.46
1:L:9:PRO:HB3	1:L:25:LEU:HG	1.96	0.46
3:N:62:LYS:HZ1	3:N:75:ARG:HD2	1.80	0.46
3:N:1004:THR:O	3:N:1007:VAL:HG22	2.16	0.46
1:L:30:ARG:HG3	9:L:4517:HOH:O	2.15	0.46
5:P:323:ASP:HB3	5:P:325:LYS:NZ	2.30	0.46
5:F:75:ILE:HG22	9:F:480:HOH:O	2.14	0.46
1:L:92:PRO:HD3	9:L:6486:HOH:O	2.16	0.46
2:C:1119:ARG:H	3:D:23:TYR:HE2	1.64	0.46
2:C:92:ALA:HB1	9:C:1961:HOH:O	2.15	0.46
2:M:817:PRO:C	2:M:819:VAL:H	2.19	0.46
2:M:433:THR:HG21	2:M:488:ALA:HB1	1.97	0.46
3:D:116:LEU:HB3	3:D:118:LEU:CD2	2.45	0.46
2:C:313:LEU:CB	2:C:321:GLU:HG3	2.46	0.46
3:D:572:ARG:HB3	9:F:507:HOH:O	2.16	0.46
3:N:420:VAL:HG13	5:P:164:LYS:HD3	1.98	0.46
5:F:163:LEU:HB3	5:F:174:LEU:CG	2.43	0.46
1:K:123:MET:C	1:K:125:PRO:HD3	2.35	0.46
9:N:9220:HOH:O	5:P:140:ARG:HB2	2.14	0.46
2:C:1034:GLU:HA	2:C:1037:VAL:CG2	2.44	0.46
2:M:713:ARG:O	2:M:720:GLU:HG3	2.15	0.46
2:C:876:VAL:HB	2:C:877:PRO:HD3	1.96	0.46
3:N:543:LEU:O	3:N:546:ARG:HB2	2.15	0.46
2:C:580:MET:HB3	2:C:584:GLU:CD	2.36	0.46
1:K:48:ILE:HD13	1:K:210:ALA:HB1	1.96	0.46
5:F:370:LYS:HD2	5:F:370:LYS:C	2.35	0.46
3:D:77:GLY:O	3:D:78:VAL:HG23	2.15	0.46
3:N:767:HIS:NE2	4:O:6:ILE:HD13	2.31	0.46
3:D:980:MET:HB3	3:D:982:PHE:CE1	2.51	0.46
3:N:615:ARG:HD2	9:N:9404:HOH:O	2.14	0.46
2:C:6:PHE:HE2	2:C:913:GLU:HB3	1.80	0.46
2:C:249:LYS:HB2	9:C:1212:HOH:O	2.14	0.46
2:C:745:ILE:HG21	9:C:1837:HOH:O	2.15	0.46
3:N:1336:LEU:HD23	9:N:9785:HOH:O	2.15	0.46
1:K:4:SER:HB3	9:K:5976:HOH:O	2.16	0.46
2:M:719:PRO:HD3	9:M:1441:HOH:O	2.14	0.46
1:L:1:MET:HG2	9:L:4365:HOH:O	2.15	0.46
2:M:165:LEU:HA	2:M:166:PRO:O	2.16	0.46
2:M:172:ILE:HG23	2:M:184:MET:HE3	1.97	0.46
2:C:470:PRO:HD3	2:C:485:TYR:CE2	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:183:GLU:HA	3:N:186:VAL:HG12	1.96	0.46
3:N:191:LEU:HD22	3:N:195:VAL:HG21	1.97	0.46
3:N:1189:ARG:HB3	3:N:1204:CYS:HA	1.98	0.46
3:N:879:ARG:HD2	9:N:9192:HOH:O	2.14	0.46
3:D:596:SER:OG	3:D:598:ARG:HB3	2.15	0.46
3:D:1278:ASP:HB2	3:D:1318:TYR:CE1	2.49	0.46
2:M:285:LEU:HB3	9:M:1964:HOH:O	2.15	0.46
3:N:1438:ALA:N	3:N:1446:VAL:HG11	2.30	0.46
3:D:493:ARG:HA	9:D:9266:HOH:O	2.14	0.46
2:M:721:ARG:HE	2:M:783:ARG:NH2	2.13	0.46
3:N:543:LEU:CD2	3:N:600:LEU:HD12	2.44	0.46
3:D:862:ASP:O	3:D:877:PRO:HD3	2.15	0.46
5:P:168:LYS:HA	5:P:168:LYS:HE2	1.98	0.46
2:C:115:LEU:HD12	2:C:378:LEU:HD22	1.96	0.46
1:A:46:SER:HB3	2:C:856:GLU:CG	2.43	0.46
3:D:633:VAL:C	3:D:635:PRO:HD3	2.36	0.46
2:M:1034:GLU:HA	2:M:1037:VAL:CG2	2.45	0.46
3:D:890:VAL:HA	9:D:9275:HOH:O	2.16	0.46
1:A:176:ARG:HG3	1:A:200:TRP:CE3	2.50	0.46
4:E:27:ALA:O	4:E:31:LEU:HG	2.16	0.46
2:C:525:SER:O	2:C:529:VAL:HG23	2.15	0.46
3:D:952:ASP:HA	3:D:1062:ARG:NH2	2.30	0.46
2:M:848:VAL:HB	3:N:740:PHE:O	2.15	0.46
2:M:210:GLU:HA	9:M:1714:HOH:O	2.15	0.46
5:P:395:GLU:HB2	9:P:5193:HOH:O	2.15	0.46
1:K:46:SER:HB3	2:M:856:GLU:HG2	1.97	0.46
3:D:20:SER:HA	9:D:9314:HOH:O	2.15	0.46
2:M:172:ILE:HD12	2:M:172:ILE:N	2.31	0.46
2:M:166:PRO:HD3	2:M:265:ARG:CB	2.46	0.46
2:M:286:SER:OG	2:M:299:LYS:HE3	2.16	0.46
1:A:65:PHE:HE1	2:C:799:ILE:HG12	1.80	0.46
2:M:310:LEU:O	2:M:314:THR:HG23	2.16	0.46
9:A:334:HOH:O	2:C:980:GLY:HA2	2.15	0.46
3:D:465:LEU:HD12	3:D:513:ILE:HD11	1.97	0.46
5:P:218:GLN:HA	5:P:221:ILE:HD12	1.96	0.46
5:F:321:ILE:HG12	5:F:327:SER:O	2.16	0.46
3:N:42:ASP:O	3:N:46:ASP:HB2	2.16	0.46
3:N:1189:ARG:NH1	3:N:1201:CYS:SG	2.88	0.46
2:C:305:PRO:CB	2:C:308:ARG:HH21	2.19	0.46
3:D:1211:MET:HG2	3:D:1213:ARG:HG2	1.98	0.46
3:D:1472:ILE:O	3:D:1477:GLY:HA3	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1090:LYS:HG2	2:C:1112:PHE:HZ	1.80	0.46
3:N:1314:LYS:NZ	3:N:1317:ASP:H	2.14	0.46
3:N:493:ARG:NH1	3:N:1390:LEU:HB2	2.31	0.46
2:C:520:GLU:O	2:C:522:VAL:HG23	2.16	0.46
3:D:178:LEU:HD21	3:D:199:LEU:H	1.81	0.46
2:C:668:LEU:HD12	2:C:668:LEU:H	1.79	0.46
2:C:30:LEU:HD12	2:C:30:LEU:O	2.15	0.46
1:A:18:ARG:HH12	1:A:88:ARG:NE	2.14	0.46
2:C:120:LEU:HB2	9:C:1338:HOH:O	2.14	0.46
3:D:1118:ILE:HD11	9:D:2295:HOH:O	2.16	0.46
3:N:1140:ILE:HG21	3:N:1175:ILE:HD11	1.98	0.46
3:N:1295:GLU:HB3	3:N:1300:SER:CB	2.46	0.46
2:C:1103:ASP:N	2:C:1107:ASN:O	2.48	0.46
3:N:1422:MET:CE	3:N:1427:SER:HA	2.46	0.46
1:K:10:VAL:HG12	1:K:12:THR:HG22	1.98	0.46
4:O:8:LYS:HB3	9:O:4335:HOH:O	2.15	0.46
2:M:123:GLU:HB3	9:M:1677:HOH:O	2.16	0.46
2:M:955:PRO:HA	9:M:1371:HOH:O	2.16	0.46
3:D:845:ASN:CB	9:D:2535:HOH:O	2.63	0.46
3:D:1177:ALA:HB3	3:D:1183:ILE:HD11	1.98	0.46
3:D:581:LEU:HD12	3:D:582:LEU:N	2.31	0.46
1:B:160:ASP:HA	9:B:464:HOH:O	2.16	0.46
2:M:144:PRO:HA	2:M:163:ILE:CD1	2.46	0.46
3:N:191:LEU:CB	3:N:195:VAL:HG21	2.44	0.46
1:A:221:HIS:HD1	1:A:224:TYR:HD2	1.62	0.46
2:C:162:ILE:HD12	2:C:172:ILE:HB	1.96	0.46
5:F:215:GLU:O	5:F:218:GLN:HB3	2.15	0.46
3:D:1103:HIS:HD2	3:D:1462:LEU:N	2.13	0.46
2:M:1046:ALA:HB3	3:N:1476:THR:HB	1.97	0.46
3:D:692:GLU:HG2	3:D:720:LEU:HD22	1.97	0.46
1:L:89:PHE:CB	1:L:94:LEU:HD13	2.41	0.46
4:O:94:PRO:HB2	9:O:4661:HOH:O	2.16	0.46
3:D:592:THR:N	3:D:600:LEU:HD21	2.31	0.46
2:M:589:ARG:HD2	9:M:1387:HOH:O	2.15	0.46
3:D:906:GLN:NE2	3:D:910:SER:HB2	2.31	0.46
2:C:690:ILE:CG2	2:C:852:ILE:HG13	2.46	0.46
2:M:1007:ALA:HB2	3:N:648:MET:HE3	1.98	0.46
2:M:829:GLN:HG2	2:M:831:ARG:HE	1.81	0.46
2:M:12:VAL:CG1	2:M:534:VAL:HG13	2.44	0.46
5:F:141:VAL:HA	9:F:544:HOH:O	2.16	0.46
1:K:25:LEU:HD23	1:K:25:LEU:O	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:1100:GLN:HG3	2:M:1101:THR:O	2.15	0.46
3:D:1342:GLU:HG2	9:D:9397:HOH:O	2.16	0.46
2:M:108:ILE:HG23	9:M:1259:HOH:O	2.16	0.46
3:D:984:THR:CG2	3:D:987:GLU:H	2.28	0.46
2:M:928:LYS:HB2	9:M:1588:HOH:O	2.16	0.46
1:L:30:ARG:NH1	1:L:30:ARG:HG2	2.30	0.46
2:C:166:PRO:HB2	9:C:1593:HOH:O	2.14	0.46
2:C:55:GLU:HG3	9:C:1573:HOH:O	2.16	0.46
3:D:974:ILE:HD11	9:D:9959:HOH:O	2.15	0.46
1:A:227:ASN:H	1:A:227:ASN:ND2	2.14	0.46
4:E:84:ARG:HA	4:E:84:ARG:HH11	1.79	0.46
3:D:843:PHE:CD1	3:D:849:ALA:HA	2.51	0.46
4:E:45:ARG:H	4:E:45:ARG:HD2	1.81	0.46
3:N:1152:GLU:HG2	3:N:1160:LEU:O	2.15	0.46
3:N:131:LYS:HG2	3:N:568:ARG:CG	2.21	0.46
5:F:406:ARG:HA	5:F:409:LYS:HG2	1.97	0.46
2:C:1086:ARG:HB3	2:C:1112:PHE:CE2	2.50	0.46
2:M:409:ARG:NE	9:M:1130:HOH:O	2.48	0.46
5:F:363:GLU:CA	5:F:367:MET:HG2	2.46	0.46
2:C:83:CYS:HA	2:C:88:LEU:HD23	1.97	0.46
3:D:154:THR:HA	9:D:9028:HOH:O	2.15	0.46
3:D:1281:VAL:HG23	3:D:1317:ASP:O	2.16	0.46
3:D:646:LYS:NZ	3:D:688:TRP:HE1	2.13	0.46
5:P:151:LEU:CD2	5:P:153:PRO:HD2	2.45	0.46
3:D:161:LEU:CD1	3:D:452:ILE:HD12	2.45	0.46
2:M:432:ARG:NH1	3:N:1048:PRO:HG2	2.29	0.46
3:N:1267:ARG:HH22	3:N:1331:ASP:HB3	1.80	0.46
3:N:628:ARG:HD3	3:N:744:GLN:HE22	1.80	0.46
3:N:404:GLU:HA	9:N:2182:HOH:O	2.16	0.46
1:L:19:GLU:O	1:L:200:TRP:HA	2.16	0.46
3:D:1122:LEU:HD23	3:D:1178:ALA:HB2	1.97	0.46
3:D:669:ASN:O	3:D:672:ALA:HB3	2.15	0.46
2:M:195:LEU:CD2	2:M:238:LEU:HG	2.46	0.46
2:C:129:ILE:HG22	2:C:130:ASN:ND2	2.31	0.46
1:L:30:ARG:HH11	1:L:30:ARG:HG2	1.81	0.46
2:M:107:LEU:HG	9:M:1695:HOH:O	2.16	0.46
3:N:785:ILE:HD12	3:N:785:ILE:H	1.81	0.46
3:D:428:LYS:HD3	3:D:451:ASP:OD1	2.16	0.46
3:D:998:GLU:HG2	9:D:9130:HOH:O	2.15	0.46
1:B:110:LYS:NZ	1:B:110:LYS:HB2	2.31	0.46
1:B:112:ARG:HB3	1:B:112:ARG:NH1	2.30	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:652:LEU:HB3	3:D:653:PHE:HD1	1.80	0.46
3:N:1444:THR:HG21	9:N:9794:HOH:O	2.16	0.46
2:M:254:VAL:HG13	2:M:258:TYR:HE1	1.79	0.46
2:M:162:ILE:HD11	2:M:306:THR:HG21	1.98	0.46
2:M:141:HIS:HB3	2:M:418:LEU:CG	2.46	0.46
2:M:140:ILE:O	2:M:418:LEU:HD23	2.16	0.46
2:C:182:VAL:HG11	2:C:193:LEU:HD22	1.97	0.46
3:D:572:ARG:NH2	5:F:83:GLN:NE2	2.59	0.46
3:N:34:TYR:HA	9:N:9522:HOH:O	2.16	0.46
5:F:164:LYS:HG2	5:F:171:LYS:NZ	2.31	0.46
3:D:1139:ASP:O	3:D:1142:ALA:HB3	2.16	0.46
3:D:56:TYR:HE2	3:D:69:GLU:HB2	1.79	0.46
2:C:626:ARG:N	2:C:639:GLN:HE21	2.13	0.46
3:D:805:GLU:O	3:D:805:GLU:OE1	2.34	0.46
2:C:882:LEU:HD22	3:D:951:ILE:HG12	1.98	0.46
1:K:9:PRO:HD2	1:L:224:TYR:CE1	2.51	0.46
3:D:1393:GLN:HB2	3:D:1398:TRP:CE2	2.50	0.46
2:C:267:TYR:HD1	9:C:1271:HOH:O	1.98	0.46
2:C:141:HIS:HB3	2:C:418:LEU:CG	2.46	0.46
5:F:179:GLU:HG3	9:F:536:HOH:O	2.16	0.46
2:M:273:GLY:HA2	2:M:276:LYS:NZ	2.31	0.46
5:P:286:PRO:HD2	9:P:5418:HOH:O	2.15	0.46
3:D:1283:ILE:HB	3:D:1315:ASP:OD2	2.16	0.46
3:N:671:LYS:HE2	3:N:674:ARG:HH21	1.81	0.46
1:B:146:ARG:HB2	9:B:513:HOH:O	2.15	0.46
1:A:72:LYS:HA	2:C:608:GLY:N	2.30	0.46
3:D:608:SER:OG	3:D:609:GLY:N	2.49	0.46
2:C:808:ARG:HG2	2:C:808:ARG:HH11	1.81	0.46
2:C:462:ASP:CG	2:C:468:ARG:HD2	2.36	0.46
1:K:162:ILE:HG13	1:K:163:ASN:OD1	2.16	0.46
3:N:172:PRO:HB3	3:N:178:LEU:HB3	1.96	0.46
3:N:1264:GLU:HG2	3:N:1266:ARG:NH2	2.31	0.46
3:N:1481:VAL:O	3:N:1481:VAL:HG12	2.16	0.46
3:D:969:ARG:HD2	9:D:9782:HOH:O	2.15	0.46
3:N:1209:LEU:HD13	3:N:1211:MET:SD	2.56	0.46
2:C:944:LEU:HD11	2:C:963:LEU:CD2	2.45	0.46
3:D:133:ILE:HG22	3:D:455:ARG:N	2.30	0.46
3:D:1319:VAL:HA	3:D:1323:GLN:OE1	2.15	0.46
2:C:1004:LYS:O	2:C:1005:MET:C	2.52	0.46
2:C:1053:LEU:HD12	9:D:9467:HOH:O	2.15	0.46
3:D:132:TYR:HA	9:D:9028:HOH:O	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:91:ASN:CG	1:A:92:PRO:HD2	2.36	0.46
2:C:367:LEU:HA	2:C:371:LYS:HD3	1.98	0.46
3:D:379:ALA:HB3	9:D:9248:HOH:O	2.15	0.46
3:N:629:SER:OG	3:N:630:VAL:N	2.47	0.46
3:D:957:PRO:CG	3:D:1007:VAL:HA	2.46	0.46
4:O:62:THR:HG21	9:O:5845:HOH:O	2.15	0.46
2:C:896:PHE:O	2:C:924:VAL:HG11	2.16	0.46
2:C:1105:LYS:HE3	9:C:1173:HOH:O	2.15	0.46
3:N:734:GLU:OE1	3:N:782:SER:HB2	2.15	0.46
3:N:671:LYS:HA	3:N:674:ARG:HE	1.81	0.46
2:C:892:LEU:HD12	2:C:892:LEU:O	2.16	0.46
4:O:13:VAL:HG12	4:O:75:PHE:CE1	2.51	0.46
2:C:75:GLU:HG3	9:C:1495:HOH:O	2.15	0.46
2:M:6:PHE:CD1	2:M:909:ALA:HB2	2.51	0.46
5:F:233:PHE:HE1	9:F:456:HOH:O	1.99	0.46
1:A:38:ASN:HB3	1:A:39:PRO:HD3	1.98	0.45
3:N:7:LYS:HD3	3:N:1456:LYS:NZ	2.31	0.45
2:M:141:HIS:HB3	2:M:418:LEU:CD2	2.47	0.45
2:C:54:ILE:HG22	2:C:66:LEU:HB3	1.98	0.45
3:D:1326:THR:HG22	3:D:1327:ARG:N	2.32	0.45
2:C:1055:LEU:CD2	2:C:1079:PRO:HG3	2.47	0.45
2:C:1067:TYR:HE1	3:D:655:PRO:HG3	1.80	0.45
2:M:893:ALA:O	2:M:897:LEU:HB2	2.16	0.45
1:B:91:ASN:OD1	1:B:93:SER:HB2	2.16	0.45
2:M:52:PHE:O	2:M:54:ILE:N	2.49	0.45
4:O:84:ARG:CZ	4:O:84:ARG:HB2	2.46	0.45
1:A:85:LEU:HD12	1:A:124:ASN:HB3	1.97	0.45
3:N:1399:ASP:O	3:N:1403:LEU:HD12	2.16	0.45
3:N:1459:LEU:HD13	3:N:1465:ASN:HD21	1.81	0.45
3:N:666:ILE:HG22	3:N:684:LYS:HD3	1.99	0.45
2:C:422:ARG:H	2:C:422:ARG:HG2	1.41	0.45
5:P:84:TYR:HB2	9:P:5610:HOH:O	2.16	0.45
3:N:1122:LEU:HD11	3:N:1186:VAL:HG23	1.98	0.45
3:D:46:ASP:HB3	3:D:49:ILE:HG13	1.97	0.45
3:D:549:ASN:HB3	9:D:9108:HOH:O	2.15	0.45
1:A:51:THR:HA	1:A:145:ASP:O	2.17	0.45
1:B:16:GLN:HA	9:B:370:HOH:O	2.16	0.45
3:D:39:PRO:HG2	3:D:47:GLU:OE2	2.15	0.45
3:N:994:GLN:CA	3:N:994:GLN:HE21	2.28	0.45
5:F:102:LEU:CD1	5:F:187:LEU:HG	2.46	0.45
2:C:165:LEU:HD12	2:C:166:PRO:HA	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:792:ILE:O	3:N:878:GLY:HA3	2.16	0.45
4:O:64:ALA:HA	4:O:67:GLU:OE1	2.16	0.45
3:N:1503:VAL:HG11	9:N:9426:HOH:O	2.16	0.45
2:M:332:ARG:NH2	2:M:464:LEU:HD11	2.30	0.45
1:L:223:THR:HG21	9:L:4720:HOH:O	2.15	0.45
2:C:976:ASP:HB3	2:C:979:THR:HG22	1.98	0.45
3:D:563:PRO:CG	3:D:566:ILE:HD12	2.46	0.45
3:D:661:MET:CE	3:D:673:ALA:HB1	2.46	0.45
2:C:54:ILE:HG12	2:C:56:GLU:HG2	1.98	0.45
3:N:116:LEU:HD21	3:N:464:LEU:HB3	1.98	0.45
2:C:1039:ALA:O	2:C:1043:TYR:HD1	2.00	0.45
3:N:1281:VAL:HG21	3:N:1313:VAL:CG2	2.46	0.45
3:D:389:GLU:HG2	3:D:389:GLU:O	2.16	0.45
3:D:1105:ILE:HD11	3:D:1374:GLN:OE1	2.17	0.45
3:D:1432:LYS:CG	3:D:1433:SER:H	2.29	0.45
3:N:1346:ARG:HD2	9:N:9115:HOH:O	2.15	0.45
5:P:409:LYS:HE3	5:P:410:TYR:HD1	1.82	0.45
3:D:850:LEU:CD2	3:D:881:LEU:HD13	2.46	0.45
2:C:690:ILE:CG1	2:C:694:LEU:HD12	2.47	0.45
3:D:1403:LEU:O	3:D:1407:LEU:HB2	2.16	0.45
3:N:1045:MET:N	9:N:2112:HOH:O	2.50	0.45
2:M:744:ARG:HG3	2:M:747:ALA:HB2	1.98	0.45
2:M:448:ASN:ND2	9:M:1423:HOH:O	2.48	0.45
3:D:545:ARG:CZ	5:F:257:THR:HA	2.46	0.45
5:F:360:LYS:HD2	9:F:461:HOH:O	2.15	0.45
2:M:352:ALA:HA	2:M:355:VAL:CG1	2.46	0.45
3:D:413:ASP:HA	9:D:9536:HOH:O	2.15	0.45
5:P:109:GLY:O	5:P:112:ALA:HB3	2.15	0.45
2:M:337:GLY:HA3	9:M:1269:HOH:O	2.16	0.45
1:A:170:VAL:HG12	9:A:359:HOH:O	2.14	0.45
3:N:191:LEU:HA	3:N:191:LEU:HD23	1.73	0.45
3:N:637:LEU:HD11	3:N:641:GLN:C	2.36	0.45
1:A:39:PRO:HG3	1:B:39:PRO:HG3	1.99	0.45
1:A:32:PHE:HE2	1:B:43:ILE:CD1	2.29	0.45
3:D:1192:LEU:CD2	3:D:1345:GLU:HG2	2.45	0.45
2:M:437:ARG:CZ	2:M:488:ALA:HA	2.46	0.45
2:C:979:THR:HG23	2:C:981:GLU:HB2	1.97	0.45
5:F:184:ARG:HE	5:F:188:ILE:HD11	1.81	0.45
3:N:1112:CYS:HA	9:N:9059:HOH:O	2.16	0.45
3:N:1109:GLU:CG	3:N:1202:GLN:H	2.30	0.45
3:N:860:LEU:HD13	3:N:861:GLN:HE22	1.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:627:ARG:HA	9:M:1134:HOH:O	2.16	0.45
5:P:321:ILE:HG13	5:P:329:TYR:HA	1.98	0.45
2:M:752:GLY:C	2:M:791:ARG:HH12	2.19	0.45
3:D:1065:LEU:CD1	3:D:1069:GLU:HB2	2.46	0.45
2:C:831:ARG:NH1	2:C:831:ARG:HG2	2.31	0.45
3:N:1493:LYS:HD3	3:N:1496:GLU:OE2	2.16	0.45
2:C:841:ASN:HD22	2:C:843:HIS:N	2.08	0.45
2:C:428:ARG:HG3	2:C:428:ARG:HH11	1.81	0.45
2:C:910:LYS:HB2	2:C:913:GLU:OE1	2.17	0.45
2:C:114:PHE:H	2:C:114:PHE:HD1	1.64	0.45
2:M:652:GLY:HA2	9:M:1715:HOH:O	2.16	0.45
1:B:42:ARG:HH11	1:B:42:ARG:HG2	1.82	0.45
3:D:1392:GLY:N	9:D:9363:HOH:O	2.49	0.45
2:M:621:VAL:HG13	9:M:1139:HOH:O	2.15	0.45
2:C:236:ILE:O	2:C:239:PHE:HB2	2.16	0.45
4:E:69:LEU:HD11	9:E:171:HOH:O	2.16	0.45
2:M:191:PHE:O	2:M:192:PRO:C	2.55	0.45
2:M:212:GLY:C	2:M:215:GLY:H	2.20	0.45
2:M:685:GLU:CG	3:N:739:ASP:HB2	2.30	0.45
2:C:1097:LEU:HD12	3:D:10:ILE:CG2	2.47	0.45
2:C:435:TYR:C	2:C:437:ARG:H	2.19	0.45
5:F:117:SER:HB3	5:F:122:LEU:O	2.16	0.45
5:F:192:LEU:O	5:F:196:VAL:HG23	2.16	0.45
3:N:495:ARG:O	3:N:499:VAL:HG23	2.16	0.45
5:F:82:ARG:HG2	5:F:86:HIS:CD2	2.51	0.45
1:B:28:LEU:O	1:B:192:LEU:HD23	2.16	0.45
3:D:213:VAL:HG22	3:D:214:GLU:H	1.81	0.45
3:N:953:ASP:OD1	3:N:1019:PRO:HG2	2.16	0.45
4:O:26:ARG:NH1	4:O:29:GLN:NE2	2.64	0.45
3:N:675:ARG:O	3:N:678:GLU:HG2	2.17	0.45
1:B:89:PHE:CD1	1:B:120:VAL:HG13	2.51	0.45
3:N:1059:SER:HA	9:N:9590:HOH:O	2.17	0.45
3:D:850:LEU:O	3:D:853:VAL:HB	2.16	0.45
3:D:1109:GLU:CG	3:D:1202:GLN:H	2.30	0.45
5:P:335:ASP:CG	5:P:338:LEU:HD12	2.37	0.45
3:N:984:THR:HB	3:N:987:GLU:OE2	2.17	0.45
5:F:399:GLN:HG2	9:F:793:HOH:O	2.15	0.45
2:C:833:LEU:HD12	2:C:834:GLN:N	2.30	0.45
2:M:1105:LYS:O	2:M:1107:ASN:N	2.49	0.45
3:N:16:GLU:HA	9:N:9730:HOH:O	2.16	0.45
3:N:734:GLU:HB2	9:N:9019:HOH:O	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:767:PRO:HA	9:C:1291:HOH:O	2.17	0.45
1:K:86:VAL:HA	9:K:4248:HOH:O	2.17	0.45
2:C:29:ALA:HB2	2:C:337:GLY:HA3	1.98	0.45
1:K:181:VAL:O	2:M:938:LYS:HD3	2.16	0.45
1:B:187:GLY:HA3	9:B:450:HOH:O	2.17	0.45
2:M:814:GLU:HG3	2:M:814:GLU:O	2.17	0.45
2:M:171:TRP:HB2	9:M:1883:HOH:O	2.17	0.45
2:C:798:GLY:C	2:C:799:ILE:HD13	2.37	0.45
3:N:183:GLU:HA	3:N:186:VAL:CG1	2.47	0.45
3:N:560:GLN:O	5:P:184:ARG:NH2	2.47	0.45
5:P:218:GLN:HA	5:P:221:ILE:CD1	2.47	0.45
2:M:435:TYR:C	2:M:437:ARG:H	2.19	0.45
2:C:175:GLU:HB3	2:C:183:SER:OG	2.16	0.45
5:F:126:LEU:O	5:F:130:VAL:HG23	2.17	0.45
2:C:282:GLY:H	2:C:308:ARG:NH2	2.13	0.45
2:C:309:TYR:HE2	2:C:321:GLU:HB3	1.81	0.45
3:D:1496:GLU:OE1	3:D:1500:LYS:HE3	2.16	0.45
3:D:1320:GLU:O	3:D:1323:GLN:HB2	2.16	0.45
3:N:696:HIS:HB2	4:O:48:MET:CE	2.47	0.45
2:C:877:PRO:HG2	3:D:1023:MET:HE1	1.99	0.45
3:D:682:ASP:N	3:D:682:ASP:OD1	2.49	0.45
5:P:168:LYS:H	5:P:168:LYS:HG2	1.46	0.45
3:D:491:LYS:HD3	3:D:492:ALA:N	2.31	0.45
2:C:421:GLU:CD	2:C:421:GLU:O	2.55	0.45
3:N:673:ALA:O	3:N:677:LEU:HG	2.17	0.45
5:F:335:ASP:OD1	5:F:338:LEU:HB2	2.17	0.45
1:K:61:VAL:HG21	1:K:68:ILE:HD11	1.98	0.45
5:F:401:GLU:HG3	5:F:405:LEU:HD22	1.98	0.45
3:N:1235:GLN:O	3:N:1237:THR:N	2.50	0.45
2:M:1118:LYS:HD3	3:N:20:SER:O	2.16	0.45
2:M:794:PRO:HB2	2:M:1027:PHE:CZ	2.51	0.45
3:D:649:ALA:CB	3:D:691:LEU:HD21	2.46	0.45
2:M:166:PRO:HD3	2:M:265:ARG:CG	2.46	0.45
2:M:300:ASP:HA	9:M:1823:HOH:O	2.15	0.45
2:M:342:ASP:O	2:M:345:ARG:HG3	2.16	0.45
2:C:890:LEU:HA	2:C:914:ILE:CD1	2.35	0.45
2:C:777:ILE:HG22	2:C:778:PHE:HD1	1.82	0.45
2:C:778:PHE:HZ	5:F:409:LYS:HB2	1.79	0.45
3:D:1462:LEU:N	3:D:1462:LEU:HD23	2.31	0.45
5:F:85:LEU:HB2	9:F:440:HOH:O	2.16	0.45
3:D:208:PRO:HB2	3:D:395:VAL:HG13	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:943:VAL:HG11	2:C:973:VAL:HG22	1.99	0.45
3:D:872:ARG:HB3	9:D:9461:HOH:O	2.16	0.45
3:N:950:GLY:H	3:N:953:ASP:CB	2.29	0.45
2:M:274:ARG:HG3	2:M:285:LEU:HD13	1.98	0.45
3:N:681:ARG:HH11	3:N:681:ARG:CB	2.29	0.45
3:D:704:ARG:HE	3:D:705:ALA:N	2.11	0.45
2:C:625:LEU:HB3	2:C:639:GLN:HB2	1.98	0.45
3:D:813:LEU:O	3:D:839:LEU:HD11	2.16	0.45
2:C:575:GLN:O	2:C:667:ALA:HB1	2.17	0.45
2:M:1006:HIS:ND1	2:M:1006:HIS:N	2.64	0.45
3:D:72:VAL:HG23	3:D:78:VAL:H	1.81	0.45
5:F:292:ALA:HA	5:F:299:TRP:HB3	1.99	0.45
2:M:89:THR:HG23	2:M:91:GLN:NE2	2.31	0.45
5:F:403:LYS:HA	5:F:403:LYS:NZ	2.31	0.45
2:C:157:ARG:HD2	2:C:314:THR:HG22	1.99	0.45
2:C:861:LEU:HG	2:C:862:PRO:HD2	1.98	0.45
3:D:42:ASP:HA	3:D:46:ASP:OD1	2.17	0.45
5:P:396:ARG:HG2	9:P:3845:HOH:O	2.17	0.45
3:D:820:GLU:HA	3:D:825:ALA:O	2.16	0.45
5:P:287:THR:N	5:P:290:GLU:OE1	2.49	0.45
3:N:1003:VAL:O	3:N:1006:ALA:HB3	2.16	0.45
2:C:27:ARG:HA	9:C:1366:HOH:O	2.16	0.45
5:F:202:TYR:OH	5:F:244:ARG:HD2	2.16	0.45
3:D:827:ILE:HG23	3:D:837:GLY:HA2	1.98	0.45
3:N:653:PHE:CD1	3:N:695:ILE:HD11	2.51	0.45
3:D:916:TYR:HE2	3:D:920:LEU:HD13	1.81	0.45
1:L:145:ASP:O	1:L:171:PHE:HE1	2.00	0.45
2:C:956:GLY:HA2	9:C:1808:HOH:O	2.17	0.45
2:C:195:LEU:HB3	9:C:1703:HOH:O	2.15	0.45
3:D:1192:LEU:HD21	3:D:1372:VAL:CG1	2.47	0.45
2:C:183:SER:HB3	9:C:1141:HOH:O	2.15	0.45
3:N:28:LYS:CB	3:N:41:ARG:HD2	2.47	0.45
2:M:902:ILE:O	2:M:904:PRO:HD3	2.17	0.45
2:C:342:ASP:O	2:C:345:ARG:HG2	2.17	0.45
3:D:1377:LYS:NZ	9:D:9064:HOH:O	2.50	0.45
5:F:166:LEU:HD22	5:F:170:HIS:CB	2.46	0.45
1:L:206:THR:CG2	1:L:209:GLU:H	2.23	0.45
5:P:416:ARG:HD3	5:P:419:ARG:HB3	1.98	0.45
2:M:274:ARG:CB	2:M:285:LEU:HD13	2.44	0.45
3:D:777:PRO:HG2	3:D:915:VAL:HB	1.99	0.45
3:D:790:TYR:CZ	3:D:905:PRO:HB2	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:65:PHE:HE1	3:D:806:PHE:HZ	1.64	0.45
2:M:603:VAL:H	2:M:647:GLN:H	1.65	0.45
3:D:1350:GLU:HG3	9:D:9098:HOH:O	2.16	0.45
3:N:484:PRO:HB2	9:N:9818:HOH:O	2.15	0.45
3:N:480:GLU:O	3:N:484:PRO:HD2	2.17	0.45
2:C:115:LEU:HD22	2:C:373:VAL:CG1	2.43	0.45
3:D:1314:LYS:HD3	3:D:1314:LYS:H	1.82	0.45
2:C:423:ALA:CB	2:C:428:ARG:HH22	2.29	0.45
1:B:156:HIS:CE1	1:B:166:PRO:HB3	2.51	0.45
3:N:633:VAL:C	3:N:635:PRO:HD3	2.36	0.45
3:N:1047:LYS:HD2	3:N:1051:GLU:OE2	2.17	0.45
3:N:656:PHE:HB3	3:N:694:VAL:CG1	2.47	0.45
2:C:993:PHE:C	2:C:993:PHE:CD1	2.90	0.45
2:C:267:TYR:N	2:C:267:TYR:HD2	2.15	0.45
3:D:1203:LYS:HE3	9:D:9590:HOH:O	2.16	0.45
1:B:19:GLU:O	1:B:200:TRP:HA	2.16	0.45
3:N:594:PRO:HA	9:N:9546:HOH:O	2.16	0.45
1:K:220:GLU:HG2	9:K:5302:HOH:O	2.16	0.45
2:C:744:ARG:HD3	9:C:1611:HOH:O	2.16	0.45
3:D:799:LYS:HE2	3:D:801:GLY:HA3	1.99	0.45
5:F:148:LYS:HD3	9:F:504:HOH:O	2.16	0.45
3:N:868:TYR:HB2	3:N:873:LEU:HD12	1.97	0.45
3:N:397:LYS:HE3	9:N:9553:HOH:O	2.14	0.45
1:L:183:ASP:HB3	9:L:6719:HOH:O	2.16	0.45
2:M:197:LEU:HD22	2:M:202:TYR:CD2	2.51	0.45
2:M:1050:GLN:HG2	2:M:1079:PRO:HG2	1.98	0.45
3:N:1101:VAL:CG1	3:N:1428:ALA:HB2	2.46	0.45
1:A:138:LEU:HD12	1:A:138:LEU:HA	1.86	0.45
3:N:637:LEU:HD11	3:N:641:GLN:HB2	1.99	0.45
3:D:1442:ASN:O	3:D:1446:VAL:HG23	2.17	0.45
2:M:1102:LEU:HD11	3:N:9:ARG:HB2	1.98	0.45
2:M:670:GLN:HE22	2:M:699:PHE:C	2.20	0.45
2:M:690:ILE:HG12	2:M:691:SER:N	2.32	0.45
2:C:313:LEU:HD12	9:C:1484:HOH:O	2.16	0.45
3:N:477:LEU:HD21	3:N:495:ARG:HD3	1.97	0.45
5:P:361:LEU:HD13	5:P:366:ALA:HB1	1.98	0.45
3:D:210:ARG:HG3	3:D:398:ALA:N	2.30	0.45
3:N:1209:LEU:CD1	3:N:1216:SER:HB2	2.47	0.45
3:N:1026:SER:C	3:N:1028:ALA:H	2.20	0.45
3:N:806:PHE:CG	3:N:806:PHE:O	2.70	0.45
1:B:89:PHE:N	1:B:89:PHE:CD1	2.85	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:540:LEU:HA	3:N:543:LEU:HD12	1.99	0.45
2:M:802:ARG:HG3	9:M:1172:HOH:O	2.16	0.45
2:C:495:THR:H	2:C:530:GLU:CD	2.19	0.45
5:F:313:GLU:HB3	9:F:481:HOH:O	2.17	0.45
2:M:129:ILE:HD13	2:M:386:PHE:O	2.17	0.45
2:C:208:ALA:HA	2:C:218:VAL:HG22	1.98	0.45
5:P:82:ARG:HG2	5:P:86:HIS:NE2	2.30	0.45
5:F:289:GLU:HG2	9:F:680:HOH:O	2.17	0.45
2:C:191:PHE:CZ	2:C:196:LEU:HD12	2.51	0.45
3:D:114:THR:O	3:D:495:ARG:HG3	2.17	0.45
3:N:1365:ASP:O	3:N:1368:ILE:HG13	2.16	0.45
3:N:640:HIS:HB3	9:N:9110:HOH:O	2.17	0.45
1:B:90:LEU:HD22	9:B:320:HOH:O	2.16	0.45
3:D:451:ASP:HB3	9:D:2046:HOH:O	2.17	0.45
3:N:769:LEU:HB2	3:N:919:PHE:HE1	1.81	0.45
2:C:798:GLY:H	2:C:827:VAL:CG1	2.30	0.45
3:N:1397:LYS:HB2	9:N:9957:HOH:O	2.17	0.45
2:C:307:LEU:HG	2:C:311:PHE:CZ	2.52	0.45
2:C:64:LEU:HD22	2:C:359:MET:CG	2.41	0.45
2:M:979:THR:CG2	2:M:981:GLU:HB2	2.46	0.45
3:D:1213:ARG:HB2	3:D:1214:PRO:HD3	1.99	0.45
3:N:1389:LEU:CD1	3:N:1390:LEU:HD23	2.47	0.45
3:D:860:LEU:HD23	3:D:877:PRO:CB	2.46	0.45
2:M:1013:TYR:CE1	2:M:1020:PRO:HG3	2.50	0.45
2:M:429:ASP:HB3	3:N:1079:LYS:HZ1	1.82	0.45
2:C:367:LEU:HB3	9:C:1983:HOH:O	2.16	0.45
3:N:378:ILE:HA	9:N:2123:HOH:O	2.16	0.45
2:C:275:TYR:CD2	2:C:276:LYS:HG3	2.52	0.45
3:D:1405:GLU:CD	3:D:1413:THR:HB	2.37	0.45
2:C:216:GLU:HB2	9:C:1669:HOH:O	2.15	0.45
1:L:212:ASN:O	1:L:215:VAL:HG22	2.16	0.45
1:B:159:LYS:N	1:B:159:LYS:HD3	2.32	0.45
3:D:1026:SER:C	3:D:1028:ALA:H	2.19	0.45
2:M:300:ASP:OD2	2:M:303:PHE:HB2	2.17	0.45
3:N:631:ILE:HG21	3:N:745:MET:HG3	1.99	0.45
3:N:553:ARG:HD3	5:P:214:GLN:HB3	1.99	0.45
3:N:137:PRO:HD2	3:N:453:ASP:CG	2.38	0.45
3:N:47:GLU:OE1	3:N:53:ILE:HG22	2.17	0.45
3:N:508:ARG:HG3	9:N:9392:HOH:O	2.17	0.45
2:C:1091:GLU:HG2	3:D:606:ILE:CG2	2.47	0.45
3:D:191:LEU:HD11	9:D:9494:HOH:O	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:393:ILE:HG22	9:D:9389:HOH:O	2.16	0.45
3:N:704:ARG:HD2	3:N:705:ALA:N	2.23	0.45
4:E:60:ALA:HB3	9:E:111:HOH:O	2.17	0.45
2:M:312:ALA:HB2	9:M:1641:HOH:O	2.17	0.45
2:C:602:GLU:HA	2:C:647:GLN:O	2.17	0.45
2:C:1032:PHE:HE2	2:C:1037:VAL:HA	1.81	0.45
3:D:1099:VAL:HG13	3:D:1223:ILE:CD1	2.46	0.45
3:D:1476:THR:HA	9:E:104:HOH:O	2.17	0.45
2:C:218:VAL:HG22	2:C:221:LEU:CD2	2.47	0.45
3:D:1393:GLN:HB2	3:D:1398:TRP:HE1	1.82	0.45
1:A:76:VAL:HA	1:A:79:ILE:HG12	1.99	0.45
2:C:1020:PRO:HD2	2:C:1057:SER:OG	2.17	0.45
2:M:167:LYS:HD3	2:M:168:ARG:HD2	1.99	0.45
2:C:893:ALA:O	2:C:897:LEU:HB2	2.16	0.45
3:N:669:ASN:O	3:N:672:ALA:HB3	2.16	0.45
3:D:729:HIS:ND1	3:D:730:PRO:N	2.64	0.45
1:L:149:GLY:O	1:L:171:PHE:HB2	2.17	0.45
2:M:472:ARG:HD2	2:M:480:THR:O	2.17	0.45
3:D:819:GLY:HA3	9:D:9206:HOH:O	2.17	0.45
2:M:172:ILE:HD12	2:M:172:ILE:H	1.82	0.44
2:M:176:VAL:O	2:M:178:PRO:HD3	2.16	0.44
3:N:1431:THR:OG1	3:N:1432:LYS:N	2.51	0.44
2:C:19:THR:O	2:C:23:VAL:HG23	2.16	0.44
2:M:461:VAL:HG13	2:M:465:GLY:HA2	1.99	0.44
3:N:28:LYS:O	3:N:43:GLY:HA2	2.17	0.44
2:C:773:LEU:N	9:C:1403:HOH:O	2.50	0.44
5:P:321:ILE:O	5:P:327:SER:HB3	2.17	0.44
2:C:818:GLY:N	9:C:2148:HOH:O	2.49	0.44
3:N:493:ARG:O	3:N:497:GLU:HG3	2.17	0.44
2:M:877:PRO:HB3	3:N:1020:LEU:HD12	1.99	0.44
5:P:142:ARG:HA	9:P:3722:HOH:O	2.17	0.44
4:O:89:MET:HG3	9:O:5639:HOH:O	2.16	0.44
3:D:699:VAL:HG12	3:D:717:GLN:CA	2.43	0.44
3:N:804:LEU:O	3:N:804:LEU:HD12	2.17	0.44
2:M:86:LYS:HG2	2:M:813:VAL:HG12	1.99	0.44
3:N:1220:ALA:O	3:N:1224:VAL:HG23	2.17	0.44
3:N:1493:LYS:HA	3:N:1496:GLU:HG2	1.99	0.44
1:L:81:ASN:O	1:L:84:GLU:HB3	2.16	0.44
1:L:185:ARG:HA	9:L:4092:HOH:O	2.16	0.44
3:N:1403:LEU:HD23	3:N:1407:LEU:CD2	2.46	0.44
3:D:1487:VAL:HG12	4:E:74:VAL:HB	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:101:LEU:HD12	1:B:114:PHE:CD1	2.52	0.44
2:M:77:PRO:HD3	2:M:93:PRO:HG3	1.97	0.44
3:D:1290:LEU:CD2	3:D:1291:SER:H	2.27	0.44
1:L:75:VAL:O	1:L:79:ILE:HG23	2.17	0.44
2:M:1067:TYR:HE2	5:P:342:VAL:HA	1.82	0.44
5:F:153:PRO:CG	5:F:154:LYS:H	2.30	0.44
3:N:99:ALA:HA	3:N:575:GLN:NE2	2.32	0.44
2:C:1078:GLU:HG3	9:C:2012:HOH:O	2.16	0.44
5:P:357:ALA:HB2	9:P:3982:HOH:O	2.17	0.44
3:N:1171:VAL:HG12	3:N:1171:VAL:O	2.17	0.44
2:M:1088:LEU:HD12	9:N:9389:HOH:O	2.17	0.44
5:F:288:TYR:HB2	9:F:819:HOH:O	2.17	0.44
3:D:121:THR:HG23	9:D:9102:HOH:O	2.16	0.44
2:M:28:ARG:HG3	2:M:40:GLU:OE1	2.16	0.44
2:M:211:LEU:CD1	2:M:308:ARG:HA	2.47	0.44
2:M:282:GLY:HA2	2:M:308:ARG:NH2	2.33	0.44
2:C:150:PRO:HB2	9:C:2194:HOH:O	2.18	0.44
2:M:1052:MET:SD	2:M:1056:LYS:HD2	2.57	0.44
3:D:1231:GLU:HB3	3:D:1232:PRO:HD3	1.99	0.44
3:D:510:GLU:HG3	9:D:9443:HOH:O	2.17	0.44
2:M:1102:LEU:N	3:N:7:LYS:O	2.49	0.44
2:C:333:ILE:O	2:C:465:GLY:HA3	2.17	0.44
2:C:486:MET:HG2	2:C:487:THR:O	2.16	0.44
3:D:1481:VAL:HG13	4:E:18:ARG:HE	1.82	0.44
3:N:57:GLU:HG2	3:N:58:CYS:O	2.18	0.44
5:P:133:ALA:HB1	9:P:3678:HOH:O	2.17	0.44
3:D:1353:GLN:O	3:D:1357:ARG:HD2	2.17	0.44
3:N:813:LEU:HD12	3:N:814:ALA:N	2.31	0.44
3:D:1047:LYS:HB2	3:D:1051:GLU:OE2	2.18	0.44
2:C:385:PHE:O	2:C:389:SER:HB3	2.17	0.44
3:D:939:PHE:O	3:D:943:THR:HG23	2.17	0.44
3:N:1156:LEU:HG	3:N:1177:ALA:HB2	1.99	0.44
2:C:841:ASN:ND2	2:C:843:HIS:HB2	2.32	0.44
3:D:1476:THR:HG23	4:E:21:VAL:HG22	2.00	0.44
3:D:161:LEU:CD2	3:D:452:ILE:HG21	2.46	0.44
3:D:955:VAL:HG21	3:D:1015:TYR:CE2	2.52	0.44
3:D:671:LYS:N	9:D:9017:HOH:O	2.50	0.44
5:F:369:LEU:HD22	9:F:840:HOH:O	2.18	0.44
2:C:817:PRO:C	2:C:819:VAL:H	2.19	0.44
2:C:73:LEU:N	2:C:73:LEU:HD23	2.32	0.44
4:E:93:TYR:HA	4:E:94:PRO:HD3	1.74	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:774:SER:OG	3:N:776:GLU:HB2	2.18	0.44
3:N:431:VAL:HA	9:N:9353:HOH:O	2.16	0.44
5:P:249:ARG:HG3	5:P:253:ASP:OD1	2.17	0.44
9:N:9147:HOH:O	5:P:254:GLN:HA	2.17	0.44
3:D:1343:ALA:HA	9:D:9548:HOH:O	2.17	0.44
3:N:1298:GLY:HA3	9:N:9525:HOH:O	2.17	0.44
2:C:761:PHE:CD1	2:C:761:PHE:N	2.85	0.44
3:N:585:GLY:HA3	9:N:9488:HOH:O	2.17	0.44
2:C:226:VAL:HG12	9:C:1509:HOH:O	2.16	0.44
2:M:212:GLY:HA3	2:M:218:VAL:CG2	2.46	0.44
2:M:267:TYR:HB2	2:M:272:ALA:HB1	1.99	0.44
2:C:442:GLU:HG2	2:C:454:SER:OG	2.17	0.44
5:P:363:GLU:CA	5:P:367:MET:HG2	2.46	0.44
1:B:184:THR:HB	1:B:194:LYS:HZ3	1.83	0.44
3:D:214:GLU:OE2	3:D:390:PRO:HB2	2.17	0.44
2:C:885:ILE:HD12	3:D:949:ILE:HB	1.98	0.44
2:C:648:ARG:HG2	9:C:1175:HOH:O	2.16	0.44
2:M:358:ARG:HH22	2:M:374:ASN:HB2	1.83	0.44
3:N:442:ASN:HB3	9:N:9550:HOH:O	2.16	0.44
5:F:295:MET:HE2	5:F:295:MET:HA	1.99	0.44
2:C:668:LEU:O	2:C:993:PHE:CZ	2.71	0.44
2:C:862:PRO:HG3	2:C:975:TYR:CE1	2.48	0.44
3:D:39:PRO:HB2	9:D:2416:HOH:O	2.17	0.44
3:N:1007:VAL:HG23	3:N:1008:PHE:N	2.32	0.44
2:M:101:ILE:HG23	2:M:107:LEU:HD22	1.98	0.44
3:N:1270:ALA:HB3	9:N:9875:HOH:O	2.17	0.44
3:N:1467:ILE:HG13	3:N:1467:ILE:H	1.65	0.44
1:A:159:LYS:HE3	9:A:341:HOH:O	2.18	0.44
3:D:1445:HIS:HB2	9:D:9269:HOH:O	2.17	0.44
2:M:241:LEU:HB3	9:M:1577:HOH:O	2.17	0.44
2:M:350:ARG:HA	2:M:353:ARG:CZ	2.47	0.44
3:D:112:ILE:O	3:D:112:ILE:HD12	2.17	0.44
2:M:326:ASP:HA	2:M:331:ARG:HD3	1.99	0.44
2:C:185:LYS:HD3	2:C:190:LYS:NZ	2.33	0.44
2:C:773:LEU:HD13	5:F:373:LYS:HG3	1.99	0.44
2:M:575:GLN:C	2:M:667:ALA:HB1	2.38	0.44
5:P:361:LEU:HD13	5:P:366:ALA:CB	2.47	0.44
2:M:925:TYR:C	2:M:925:TYR:HD1	2.21	0.44
3:N:1219:GLU:HG3	4:O:17:TYR:OH	2.17	0.44
2:M:877:PRO:HG2	2:M:878:SER:H	1.82	0.44
2:C:603:VAL:H	2:C:647:GLN:H	1.65	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:156:HIS:CD2	1:K:157:GLY:N	2.86	0.44
3:D:65:ARG:HD3	9:D:2178:HOH:O	2.18	0.44
3:N:838:ARG:HG2	3:N:865:THR:OG1	2.18	0.44
2:C:260:LEU:HA	2:C:291:ALA:HB2	1.98	0.44
5:P:102:LEU:HD22	5:P:183:ALA:O	2.17	0.44
3:D:860:LEU:O	3:D:877:PRO:HD2	2.17	0.44
3:N:1399:ASP:HA	9:N:9219:HOH:O	2.16	0.44
3:N:1232:PRO:HB3	3:N:1361:VAL:CG2	2.45	0.44
1:A:9:PRO:HB3	1:A:25:LEU:CD1	2.47	0.44
1:B:101:LEU:HB2	1:B:114:PHE:CD2	2.52	0.44
1:L:59:GLU:HG2	1:L:139:ASN:O	2.17	0.44
5:F:403:LYS:HD3	9:F:714:HOH:O	2.17	0.44
2:C:810:ASP:HA	2:C:811:PRO:HD3	1.72	0.44
3:N:1093:TYR:O	3:N:1096:ARG:HB3	2.16	0.44
1:B:109:VAL:HA	9:B:383:HOH:O	2.17	0.44
5:P:331:ASP:HB2	9:P:5195:HOH:O	2.18	0.44
2:M:817:PRO:HB3	5:P:305:GLU:OE1	2.18	0.44
2:M:835:VAL:HG11	9:N:9423:HOH:O	2.17	0.44
3:D:1429:LEU:HG	3:D:1441:GLN:OE1	2.17	0.44
3:D:921:ARG:HD2	9:D:9298:HOH:O	2.18	0.44
3:N:960:LYS:HG2	3:N:964:LEU:HD12	1.99	0.44
2:M:599:GLU:HB2	9:M:1325:HOH:O	2.17	0.44
2:C:155:PRO:HB2	9:C:1303:HOH:O	2.16	0.44
2:M:200:LEU:H	2:M:200:LEU:HG	1.59	0.44
3:D:80:VAL:HG23	9:D:9031:HOH:O	2.17	0.44
2:C:437:ARG:NH2	2:C:486:MET:O	2.50	0.44
3:N:1112:CYS:HA	9:N:9572:HOH:O	2.17	0.44
5:P:370:LYS:HB3	5:P:370:LYS:HZ2	1.82	0.44
5:F:77:THR:O	5:F:81:VAL:HG23	2.17	0.44
2:C:688:ILE:N	2:C:688:ILE:HD12	2.32	0.44
2:C:603:VAL:HG23	2:C:647:GLN:O	2.17	0.44
4:O:54:LEU:HA	4:O:58:PRO:CG	2.47	0.44
1:B:120:VAL:HB	9:B:441:HOH:O	2.16	0.44
3:D:906:GLN:HE22	3:D:910:SER:HB2	1.82	0.44
2:C:567:GLN:O	2:C:997:LEU:HD22	2.18	0.44
1:B:65:PHE:HE1	3:D:806:PHE:CZ	2.35	0.44
3:N:550:ARG:HH11	3:N:550:ARG:HG3	1.82	0.44
2:C:142:ARG:HD3	2:C:325:ILE:HG23	1.99	0.44
3:D:996:TRP:HE3	3:D:999:THR:CG2	2.28	0.44
3:N:656:PHE:HB3	3:N:694:VAL:HG11	1.99	0.44
2:C:371:LYS:HE3	9:C:1918:HOH:O	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:198:ARG:HH21	2:C:204:GLN:HG3	1.82	0.44
3:D:971:LEU:O	3:D:975:GLU:HG3	2.18	0.44
2:C:1105:LYS:O	2:C:1107:ASN:N	2.50	0.44
3:D:1239:ARG:HB2	9:D:9447:HOH:O	2.17	0.44
1:K:227:ASN:ND2	1:K:227:ASN:H	2.16	0.44
2:C:792:VAL:HG23	9:C:1301:HOH:O	2.18	0.44
5:P:104:ARG:HG2	9:P:4251:HOH:O	2.16	0.44
3:N:827:ILE:O	3:N:837:GLY:HA3	2.18	0.44
1:B:175:ARG:HD3	1:B:175:ARG:HA	1.73	0.44
1:K:179:PHE:HE2	9:K:3599:HOH:O	2.00	0.44
3:D:1009:LYS:O	3:D:1013:GLU:HG3	2.18	0.44
5:F:372:ARG:HG2	9:F:685:HOH:O	2.17	0.44
3:N:10:ILE:O	3:N:1454:GLY:HA2	2.18	0.44
2:M:164:PRO:HD2	2:M:170:PRO:O	2.17	0.44
1:A:184:THR:HG23	1:A:192:LEU:CB	2.46	0.44
3:D:1369:GLU:HA	3:D:1372:VAL:HG12	1.99	0.44
3:D:105:VAL:HG13	3:D:124:GLU:OE1	2.18	0.44
2:M:332:ARG:HB2	2:M:466:PHE:HE1	1.83	0.44
3:D:566:ILE:HG23	5:F:214:GLN:OE1	2.18	0.44
2:C:305:PRO:HA	2:C:308:ARG:HE	1.82	0.44
5:F:319:THR:HG22	5:F:320:PRO:HD2	2.00	0.44
3:D:1468:LEU:HD22	3:D:1470:ARG:HG3	2.00	0.44
5:F:366:ALA:HB3	5:F:367:MET:HE2	1.99	0.44
3:D:186:VAL:HG13	3:D:187:LYS:N	2.31	0.44
3:N:34:TYR:OH	5:P:264:MET:HG3	2.18	0.44
3:N:535:PHE:O	5:P:314:PRO:HA	2.17	0.44
3:D:600:LEU:HD23	3:D:600:LEU:N	2.32	0.44
3:D:794:GLN:HG2	3:D:905:PRO:HB3	1.98	0.44
2:M:18:LEU:HD13	2:M:590:ASP:CG	2.38	0.44
2:C:672:VAL:CG2	2:C:868:ASP:HB2	2.46	0.44
2:C:876:VAL:O	2:C:879:ARG:O	2.36	0.44
4:E:87:LYS:HB2	9:E:127:HOH:O	2.17	0.44
3:N:928:ALA:O	3:N:931:LEU:HB2	2.18	0.44
3:N:1312:LEU:HG	3:N:1327:ARG:HG3	1.98	0.44
3:N:1491:THR:O	3:N:1495:ILE:HD13	2.17	0.44
3:N:866:VAL:HG12	3:N:867:ARG:N	2.31	0.44
2:M:747:ALA:O	2:M:799:ILE:HA	2.18	0.44
3:N:1391:GLU:HB3	3:N:1393:GLN:OE1	2.18	0.44
5:F:407:LYS:HB3	9:F:453:HOH:O	2.18	0.44
2:C:265:ARG:HB2	9:C:1143:HOH:O	2.16	0.44
1:K:225:PHE:CE1	1:L:25:LEU:HD22	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:175:ARG:NH2	1:K:202:ASP:HA	2.33	0.44
5:F:401:GLU:O	5:F:405:LEU:HD13	2.17	0.44
1:A:182:GLU:OE1	2:C:934:PHE:HB3	2.18	0.44
3:N:1364:HIS:ND1	3:N:1365:ASP:N	2.65	0.44
2:C:918:LEU:HD23	2:C:967:PHE:O	2.17	0.44
3:N:1385:GLY:HA3	9:N:9569:HOH:O	2.16	0.44
2:C:39:ARG:HG3	9:C:1262:HOH:O	2.18	0.44
3:D:1114:THR:HG23	3:D:1114:THR:O	2.17	0.44
3:D:617:ASN:HA	3:D:617:ASN:HD22	1.62	0.44
2:C:81:ASP:HB2	9:C:1292:HOH:O	2.17	0.44
2:C:492:ASP:HB3	2:C:518:LYS:HD2	2.00	0.44
3:N:905:PRO:HD3	9:N:9581:HOH:O	2.17	0.44
2:M:262:ALA:O	2:M:264:PRO:O	2.36	0.44
2:M:290:LEU:HA	9:M:1823:HOH:O	2.18	0.44
3:N:172:PRO:HG3	3:N:178:LEU:HD13	2.00	0.44
3:N:185:VAL:HG22	9:N:2180:HOH:O	2.18	0.44
5:P:159:ILE:O	5:P:163:LEU:HG	2.18	0.44
2:M:428:ARG:HH21	2:M:451:LEU:CD1	2.30	0.44
2:C:437:ARG:HA	2:C:467:ILE:HG21	2.00	0.44
1:B:51:THR:HB	9:B:467:HOH:O	2.17	0.44
3:N:87:ARG:HD2	3:N:88:TYR:CE2	2.53	0.44
3:D:1465:ASN:HD21	3:D:1470:ARG:NE	2.16	0.44
2:M:442:GLU:CG	2:M:454:SER:H	2.31	0.44
5:F:361:LEU:HD21	5:F:404:ALA:HB1	1.99	0.44
2:C:599:GLU:HB3	9:C:1560:HOH:O	2.17	0.44
3:D:1065:LEU:HD13	3:D:1069:GLU:HB2	2.00	0.44
2:C:611:ILE:HD11	2:C:641:PRO:HG3	1.98	0.44
3:D:781:PRO:HB3	3:D:785:ILE:HB	2.00	0.44
3:D:794:GLN:HB3	3:D:794:GLN:HE21	1.58	0.44
3:D:775:GLY:HA3	3:D:1145:TYR:CE1	2.53	0.44
1:K:19:GLU:CD	1:K:19:GLU:N	2.71	0.44
5:P:291:ILE:HG12	5:P:304:VAL:HG11	2.00	0.44
3:N:783:ARG:HG2	3:N:783:ARG:HH11	1.82	0.44
3:D:1044:LEU:HD23	9:D:9902:HOH:O	2.18	0.44
2:M:780:GLU:HG3	2:M:781:LYS:N	2.31	0.44
1:B:143:ARG:NH1	1:B:158:ILE:HG23	2.33	0.44
3:D:558:LEU:HD13	5:F:145:PRO:HB3	2.00	0.44
2:C:194:VAL:HG21	2:C:221:LEU:HA	2.00	0.44
2:C:198:ARG:CZ	2:C:228:ALA:O	2.65	0.44
1:K:20:TYR:CE2	1:K:22:GLU:HG3	2.52	0.44
3:N:75:ARG:HB2	9:N:9306:HOH:O	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1164:ARG:HH21	3:D:1170:ASP:CG	2.21	0.44
4:E:37:ASN:HD22	4:E:89:MET:CE	2.31	0.44
3:N:674:ARG:HH11	3:N:674:ARG:HG2	1.82	0.44
1:A:52:ALA:HB2	1:A:170:VAL:O	2.18	0.44
5:P:391:GLY:HA3	9:P:3841:HOH:O	2.18	0.44
2:M:218:VAL:HG22	2:M:221:LEU:HD21	1.99	0.44
3:N:1481:VAL:HA	4:O:18:ARG:HH21	1.83	0.44
3:N:161:LEU:HD13	9:N:9313:HOH:O	2.17	0.44
3:D:119:SER:HB2	3:D:123:LEU:HB2	1.99	0.44
2:C:437:ARG:HE	2:C:469:THR:H	1.65	0.44
2:C:504:GLU:CG	2:C:507:ARG:HB2	2.48	0.44
3:N:112:ILE:HD13	3:N:461:ILE:HG21	2.00	0.44
3:D:148:GLU:HG3	9:D:9078:HOH:O	2.18	0.44
3:D:171:LEU:C	3:D:171:LEU:HD12	2.38	0.44
3:D:444:VAL:O	3:D:446:VAL:HG23	2.17	0.44
3:N:950:GLY:O	3:N:953:ASP:N	2.41	0.44
5:P:129:GLU:HB3	5:P:142:ARG:NH2	2.33	0.44
2:C:430:VAL:O	3:D:1075:HIS:ND1	2.51	0.44
3:N:1042:ARG:O	3:N:1057:VAL:HB	2.18	0.44
3:D:810:GLU:HA	3:D:813:LEU:CD2	2.47	0.44
2:C:269:LEU:HD12	2:C:288:ARG:HG3	1.99	0.44
3:D:122:GLU:HG3	9:D:9582:HOH:O	2.18	0.44
2:C:420:ARG:CD	2:C:420:ARG:H	2.29	0.44
1:B:98:THR:HG22	1:B:100:LEU:CD2	2.48	0.44
3:D:545:ARG:HD2	9:D:9153:HOH:O	2.18	0.44
2:M:1012:PRO:HD2	2:M:1021:LEU:O	2.18	0.44
1:B:83:LYS:HE3	1:B:167:VAL:CG1	2.46	0.44
5:F:287:THR:O	5:F:289:GLU:N	2.50	0.44
2:C:1056:LYS:HD3	3:D:623:VAL:HG13	2.00	0.44
3:D:844:ALA:HB3	3:D:848:GLU:OE2	2.17	0.44
1:K:12:THR:HG21	9:K:5148:HOH:O	2.17	0.44
3:N:1108:ARG:HH21	3:N:1198:TYR:C	2.21	0.44
2:M:356:ARG:HD3	9:M:1999:HOH:O	2.17	0.44
3:D:1442:ASN:HA	9:D:9032:HOH:O	2.17	0.44
2:C:185:LYS:HG2	2:C:190:LYS:CG	2.47	0.44
5:F:321:ILE:O	5:F:327:SER:HB3	2.18	0.44
3:N:117:ASP:HB2	3:N:495:ARG:HH21	1.79	0.44
2:C:1042:ALA:CB	3:D:710:ARG:HB3	2.45	0.44
1:B:182:GLU:N	9:B:579:HOH:O	2.50	0.44
2:M:893:ALA:HB2	2:M:918:LEU:HD12	2.00	0.44
3:D:1318:TYR:CD1	3:D:1319:VAL:N	2.84	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:339:LEU:HB3	2:C:385:PHE:CZ	2.53	0.44
3:N:438:ASP:OD2	3:N:440:VAL:HB	2.18	0.44
1:A:9:PRO:HG2	1:B:224:TYR:CD2	2.52	0.44
2:M:252:LYS:NZ	2:M:296:GLY:HA3	2.33	0.44
3:D:500:ARG:NH1	3:D:500:ARG:HG3	2.33	0.44
5:F:291:ILE:HG23	5:F:304:VAL:HG21	1.99	0.44
3:D:925:GLU:HA	9:D:9129:HOH:O	2.17	0.44
2:C:208:ALA:HA	2:C:221:LEU:HD21	1.99	0.44
2:C:267:TYR:N	2:C:267:TYR:CD2	2.85	0.44
3:N:1123:PHE:HA	3:N:1135:ARG:N	2.33	0.44
2:M:56:GLU:HG2	2:M:64:LEU:HD23	2.00	0.44
2:M:642:ARG:HG3	2:M:654:LEU:HD21	2.00	0.44
1:A:89:PHE:HB2	1:A:94:LEU:HD13	2.00	0.44
2:M:835:VAL:HG13	3:N:725:SER:OG	2.18	0.44
2:C:547:ILE:HA	2:C:548:PRO:HD3	1.91	0.44
5:P:231:ARG:HD3	9:P:4958:HOH:O	2.17	0.44
2:M:196:LEU:O	2:M:199:VAL:HB	2.18	0.43
3:N:178:LEU:HG	3:N:200:ASP:H	1.83	0.43
3:N:215:TYR:O	3:N:389:GLU:HB3	2.18	0.43
3:D:1258:ARG:NH2	3:D:1262:LEU:HD11	2.33	0.43
3:D:1366:LYS:O	3:D:1369:GLU:HB2	2.18	0.43
2:C:185:LYS:HB3	2:C:188:LYS:O	2.17	0.43
3:D:80:VAL:HG12	3:D:81:THR:O	2.18	0.43
2:M:9:ILE:HD13	2:M:536:PRO:HD2	1.99	0.43
2:C:1060:ILE:CG2	2:C:1061:GLU:H	2.30	0.43
3:D:1459:LEU:HD12	3:D:1470:ARG:NH1	2.33	0.43
3:D:397:LYS:NZ	3:D:399:ARG:HH21	2.15	0.43
3:D:695:ILE:HG21	3:D:720:LEU:HD11	1.99	0.43
1:L:206:THR:HG23	1:L:208:LEU:N	2.33	0.43
3:D:1087:ARG:C	9:D:9918:HOH:O	2.57	0.43
2:M:586:ARG:NH1	2:M:590:ASP:OD2	2.51	0.43
2:C:267:TYR:H	2:C:267:TYR:HD2	1.65	0.43
3:N:513:ILE:HB	9:N:9876:HOH:O	2.18	0.43
2:M:413:LEU:HD13	2:M:448:ASN:OD1	2.18	0.43
2:M:594:ALA:HB3	2:M:596:TYR:HE1	1.83	0.43
5:P:226:LYS:HG3	5:P:242:TRP:CH2	2.53	0.43
2:M:108:ILE:HD12	2:M:108:ILE:N	2.33	0.43
3:N:787:LEU:O	3:N:787:LEU:HD12	2.18	0.43
3:N:1035:ILE:HG22	3:N:1039:CYS:SG	2.58	0.43
3:N:729:HIS:ND1	3:N:730:PRO:HD2	2.34	0.43
3:D:169:TYR:N	3:D:170:PRO:HD2	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:1019:GLN:HE22	3:N:621:LYS:HG2	1.83	0.43
5:P:414:ARG:HG3	9:P:4806:HOH:O	2.18	0.43
3:D:762:GLN:HE21	4:E:20:THR:HG21	1.83	0.43
3:N:1337:GLU:HB3	9:N:9327:HOH:O	2.17	0.43
3:N:614:PHE:O	3:N:617:ASN:HB2	2.17	0.43
3:N:534:ARG:HG2	9:P:3569:HOH:O	2.17	0.43
2:M:554:ASP:HB3	2:M:880:MET:O	2.18	0.43
1:L:63:HIS:HB3	9:L:3555:HOH:O	2.18	0.43
2:M:292:ARG:CD	2:M:299:LYS:HD3	2.45	0.43
2:C:19:THR:HG21	2:C:124:ASP:O	2.18	0.43
2:C:479:VAL:HG22	2:C:508:ILE:CD1	2.48	0.43
2:M:571:LEU:HD21	2:M:700:TYR:HD2	1.83	0.43
3:N:880:ILE:O	3:N:883:ALA:HB3	2.18	0.43
3:N:30:GLU:HB3	3:N:40:GLU:CG	2.48	0.43
2:C:1039:ALA:HB2	3:D:707:THR:HG21	2.00	0.43
2:M:917:LEU:HD23	2:M:920:GLN:NE2	2.32	0.43
3:N:1209:LEU:HD12	3:N:1216:SER:HB2	1.99	0.43
3:N:1406:ARG:HG3	3:N:1412:LYS:HG2	2.00	0.43
3:D:947:ILE:H	3:D:947:ILE:HG13	1.57	0.43
2:C:262:ALA:O	2:C:264:PRO:O	2.36	0.43
2:C:289:THR:O	2:C:291:ALA:N	2.51	0.43
2:C:101:ILE:HD12	2:C:107:LEU:HD22	2.00	0.43
1:K:217:ILE:HG23	9:K:6003:HOH:O	2.18	0.43
3:N:684:LYS:H	3:N:684:LYS:HG3	1.59	0.43
2:C:722:ILE:HG21	2:C:805:ARG:HH21	1.82	0.43
3:D:900:ILE:CD1	3:D:902:LEU:HD23	2.48	0.43
2:M:577:PRO:HD2	2:M:580:MET:HG2	1.99	0.43
3:D:928:ALA:HA	3:D:931:LEU:HD12	1.99	0.43
2:M:383:ARG:HB2	2:M:383:ARG:CZ	2.47	0.43
5:F:360:LYS:HA	9:F:621:HOH:O	2.17	0.43
2:M:1104:GLU:H	2:M:1104:GLU:CD	2.21	0.43
3:D:1007:VAL:HG23	3:D:1008:PHE:N	2.33	0.43
2:M:708:TYR:HD1	2:M:708:TYR:H	1.64	0.43
1:K:41:ARG:HH11	1:K:41:ARG:HG3	1.83	0.43
2:C:165:LEU:HA	2:C:166:PRO:O	2.18	0.43
3:D:903:ASP:HB3	9:D:9214:HOH:O	2.17	0.43
1:K:44:LEU:O	1:K:174:VAL:HG21	2.18	0.43
3:N:456:MET:HE3	3:N:568:ARG:HD3	2.00	0.43
2:M:304:LEU:HD21	9:M:1857:HOH:O	2.17	0.43
2:M:301:GLU:O	2:M:305:PRO:HG2	2.19	0.43
3:D:1235:GLN:O	3:D:1237:THR:N	2.51	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:567:ILE:HG22	3:N:571:LYS:CE	2.47	0.43
5:P:214:GLN:HA	5:P:214:GLN:OE1	2.16	0.43
3:D:45:PHE:CD1	3:D:86:ARG:NH2	2.86	0.43
2:C:1012:PRO:HD2	2:C:1021:LEU:O	2.18	0.43
2:C:1060:ILE:CG2	2:C:1061:GLU:N	2.81	0.43
2:C:1036:GLU:HG3	3:D:707:THR:OG1	2.18	0.43
3:D:1209:LEU:HD23	3:D:1210:SER:H	1.82	0.43
2:M:897:LEU:HB3	2:M:899:GLN:HG2	2.00	0.43
5:F:361:LEU:CD2	5:F:362:SER:H	2.22	0.43
3:D:186:VAL:HG11	3:D:213:VAL:HB	2.00	0.43
2:M:1043:TYR:HE2	3:N:768:ASN:ND2	2.17	0.43
2:C:244:PRO:CD	2:C:245:GLY:N	2.81	0.43
3:N:1390:LEU:HD11	9:N:9190:HOH:O	2.17	0.43
3:D:1045:MET:N	9:D:9034:HOH:O	2.51	0.43
5:P:409:LYS:HE3	5:P:410:TYR:CD1	2.53	0.43
3:D:912:LYS:O	3:D:915:VAL:HG23	2.19	0.43
3:D:847:ASP:O	3:D:851:LEU:HG	2.19	0.43
2:C:1007:ALA:HB2	9:C:1170:HOH:O	2.18	0.43
2:C:759:THR:HB	2:C:785:VAL:HG21	2.00	0.43
1:A:9:PRO:HB3	1:A:25:LEU:CG	2.48	0.43
3:D:486:ARG:HA	3:D:489:ARG:HG2	1.99	0.43
2:M:77:PRO:HD2	2:M:91:GLN:O	2.18	0.43
3:D:928:ALA:O	3:D:931:LEU:HB2	2.18	0.43
5:F:282:LEU:HB2	5:F:284:ARG:H	1.83	0.43
2:C:141:HIS:HB2	2:C:418:LEU:HD12	2.00	0.43
3:D:1119:SER:HA	3:D:1186:VAL:O	2.18	0.43
3:D:414:ARG:HB3	9:D:9281:HOH:O	2.19	0.43
3:D:988:ARG:O	3:D:992:ILE:HG13	2.19	0.43
3:N:829:VAL:H	3:N:835:SER:HB2	1.82	0.43
1:K:189:ARG:HD2	1:K:191:ASP:OD1	2.18	0.43
3:N:957:PRO:CD	3:N:1007:VAL:HG12	2.48	0.43
3:D:618:LEU:HG	9:D:9956:HOH:O	2.18	0.43
1:A:163:ASN:HD22	1:A:163:ASN:HA	1.65	0.43
2:M:1019:GLN:NE2	3:N:621:LYS:HG2	2.33	0.43
5:F:421:PHE:C	5:F:423:ASP:H	2.22	0.43
3:D:416:ALA:H	3:D:417:PRO:CD	2.30	0.43
2:C:619:ARG:HA	9:C:1206:HOH:O	2.18	0.43
2:C:455:LEU:H	2:C:455:LEU:HD23	1.82	0.43
1:B:106:PRO:HG3	1:B:133:GLU:O	2.19	0.43
2:C:534:VAL:H	2:C:538:GLN:NE2	2.15	0.43
3:N:520:LEU:HD12	3:N:521:PRO:CD	2.47	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:433:THR:C	2:M:435:TYR:H	2.22	0.43
3:D:804:LEU:HD23	3:D:804:LEU:H	1.83	0.43
2:C:1011:GLY:HA3	2:C:1026:GLN:HG2	2.01	0.43
5:F:320:PRO:HB2	5:F:324:GLU:HG3	2.00	0.43
3:D:654:LYS:HB3	3:D:655:PRO:CD	2.38	0.43
3:D:190:GLU:HB3	9:D:9431:HOH:O	2.18	0.43
1:L:94:LEU:HD11	1:L:119:ASP:HB3	2.00	0.43
3:D:423:ASP:OD1	5:F:174:LEU:HD13	2.18	0.43
3:N:169:TYR:HA	3:N:392:SER:HA	2.00	0.43
3:D:543:LEU:O	3:D:546:ARG:HB2	2.19	0.43
3:D:1065:LEU:HD12	3:D:1065:LEU:C	2.38	0.43
2:M:95:TYR:CD1	2:M:95:TYR:N	2.87	0.43
3:N:764:LEU:HD12	3:N:765:SER:H	1.83	0.43
3:D:374:GLU:HA	9:D:2147:HOH:O	2.17	0.43
1:A:132:LEU:HD12	1:A:132:LEU:N	2.33	0.43
3:N:1267:ARG:NH1	3:N:1331:ASP:HB2	2.29	0.43
2:C:203:ASP:OD1	2:C:206:THR:HG22	2.19	0.43
2:M:1103:ASP:N	2:M:1107:ASN:O	2.51	0.43
3:N:1123:PHE:HE2	3:N:1184:GLN:HA	1.81	0.43
2:C:57:GLU:HG2	9:C:1767:HOH:O	2.18	0.43
5:P:225:GLU:HB2	9:P:3558:HOH:O	2.17	0.43
2:C:892:LEU:HD21	2:C:967:PHE:CE1	2.54	0.43
3:N:938:GLY:O	3:N:942:SER:HB3	2.18	0.43
3:D:621:LYS:NZ	9:D:9787:HOH:O	2.51	0.43
2:M:260:LEU:HA	2:M:291:ALA:HB2	2.00	0.43
2:M:148:PHE:CE1	2:M:309:TYR:HB3	2.54	0.43
3:N:1097:LYS:O	3:N:1101:VAL:HG22	2.19	0.43
1:A:29:GLU:HB3	1:A:30:ARG:H	1.69	0.43
5:P:131:VAL:HG13	5:P:178:ARG:HG2	2.01	0.43
2:M:438:ILE:HG12	9:M:1460:HOH:O	2.17	0.43
3:N:41:ARG:HD3	3:N:42:ASP:N	2.34	0.43
2:C:352:ALA:O	2:C:355:VAL:HG12	2.19	0.43
2:M:575:GLN:HA	2:M:662:GLU:CD	2.39	0.43
3:N:127:LEU:HD23	3:N:134:VAL:HG11	1.99	0.43
3:D:972:LEU:CD2	3:D:973:GLN:HE21	2.31	0.43
2:C:1071:ILE:HD13	3:D:655:PRO:HB3	2.00	0.43
1:B:182:GLU:O	1:B:194:LYS:HB3	2.19	0.43
3:D:396:VAL:HG13	3:D:446:VAL:O	2.19	0.43
2:C:47:ALA:HB1	2:C:345:ARG:HB3	2.00	0.43
3:D:1264:GLU:HB3	3:D:1266:ARG:NE	2.33	0.43
3:N:396:VAL:HG13	3:N:446:VAL:O	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1120:VAL:HA	3:D:1121:PRO:HD3	1.74	0.43
2:C:501:THR:HG22	2:C:513:VAL:CG2	2.49	0.43
3:D:1068:LEU:C	3:D:1070:TYR:N	2.71	0.43
2:C:15:LEU:HD13	2:C:583:LEU:HD11	1.99	0.43
2:C:704:HIS:HB2	2:C:831:ARG:NE	2.34	0.43
2:C:78:PHE:HB3	2:C:79:PRO:HD2	2.00	0.43
2:C:197:LEU:HD22	2:C:202:TYR:HD2	1.83	0.43
2:C:91:GLN:HE21	2:C:119:PRO:HD3	1.83	0.43
2:M:1108:PRO:HD3	9:M:1260:HOH:O	2.18	0.43
2:M:654:LEU:HD11	2:M:657:ASP:HA	2.00	0.43
1:K:101:LEU:HD12	1:K:114:PHE:CD1	2.53	0.43
3:N:1136:LYS:O	3:N:1140:ILE:HG13	2.17	0.43
3:D:34:TYR:CD2	3:D:34:TYR:N	2.87	0.43
4:E:45:ARG:HB2	4:E:46:PRO:CD	2.49	0.43
3:D:894:LYS:HD3	9:D:9911:HOH:O	2.17	0.43
3:D:914:LEU:O	3:D:914:LEU:HD23	2.19	0.43
5:P:232:ARG:HA	5:P:232:ARG:HD2	1.89	0.43
2:M:496:ILE:HD12	2:M:496:ILE:H	1.83	0.43
2:M:421:GLU:HB3	9:M:2092:HOH:O	2.18	0.43
9:N:9213:HOH:O	5:P:136:LEU:HD21	2.19	0.43
3:D:1402:ALA:HB2	3:D:1415:VAL:HG23	1.99	0.43
1:A:38:ASN:ND2	9:A:334:HOH:O	2.52	0.43
3:D:1237:THR:HG21	9:D:9202:HOH:O	2.19	0.43
3:D:1437:ALA:O	3:D:1446:VAL:HG21	2.19	0.43
5:P:213:ILE:HG22	5:P:217:ASN:OD1	2.19	0.43
2:C:1097:LEU:HD21	3:D:103:TRP:CZ3	2.53	0.43
2:C:172:ILE:N	2:C:172:ILE:HD12	2.32	0.43
2:C:328:LEU:HB2	2:C:488:ALA:CB	2.38	0.43
2:C:52:PHE:CG	2:C:68:PHE:HB2	2.54	0.43
5:P:358:LEU:CD1	5:P:370:LYS:HG3	2.43	0.43
1:B:184:THR:O	1:B:192:LEU:HB2	2.18	0.43
2:M:939:ARG:HG3	9:M:1198:HOH:O	2.18	0.43
3:D:1495:ILE:O	3:D:1499:ARG:HG3	2.19	0.43
3:D:185:VAL:HG12	3:D:191:LEU:HD21	2.01	0.43
2:C:347:GLY:HA2	2:C:350:ARG:CD	2.48	0.43
2:C:944:LEU:HD22	2:C:962:GLN:OE1	2.18	0.43
3:D:131:LYS:HE2	3:D:568:ARG:CB	2.48	0.43
1:L:206:THR:HG23	1:L:208:LEU:H	1.83	0.43
3:D:850:LEU:HD22	3:D:884:ARG:NH2	2.33	0.43
2:C:1004:LYS:HE3	2:C:1027:PHE:HE1	1.83	0.43
1:A:150:TYR:OH	2:C:832:LYS:HE3	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:399:ARG:HB2	3:N:444:VAL:HG13	1.99	0.43
1:K:47:SER:HA	9:K:4719:HOH:O	2.18	0.43
3:N:1459:LEU:HD22	3:N:1465:ASN:ND2	2.33	0.43
1:K:76:VAL:O	1:K:79:ILE:HG13	2.18	0.43
2:C:837:ASP:O	2:C:849:VAL:HG23	2.19	0.43
3:N:410:SER:CB	3:N:414:ARG:HH21	2.32	0.43
1:L:74:ASP:HB3	9:N:9057:HOH:O	2.19	0.43
5:P:392:VAL:HG12	5:P:396:ARG:HG3	2.00	0.43
5:P:247:ILE:O	5:P:251:ILE:HG13	2.19	0.43
4:O:23:VAL:CG2	4:O:65:MET:HG2	2.49	0.43
3:N:606:ILE:O	3:N:613:ARG:HB2	2.18	0.43
4:E:49:GLN:HA	4:E:51:LEU:O	2.19	0.43
2:M:394:PHE:HB3	9:M:1953:HOH:O	2.18	0.43
2:M:937:ASP:HB2	2:M:940:GLU:HB2	2.01	0.43
2:C:393:GLN:HG2	9:C:1727:HOH:O	2.17	0.43
3:N:965:GLU:O	3:N:968:ASP:HB3	2.19	0.43
2:M:1076:VAL:CG2	3:N:752:SER:HB3	2.49	0.43
3:D:1408:ILE:HG12	9:D:9641:HOH:O	2.18	0.43
5:F:271:LEU:HD11	5:F:307:THR:HB	2.01	0.43
1:A:23:PHE:O	1:A:196:THR:HA	2.19	0.43
1:A:221:HIS:HB3	1:B:36:LEU:HD21	1.99	0.43
2:M:141:HIS:NE2	2:M:332:ARG:HD3	2.34	0.43
5:F:188:ILE:HA	9:F:598:HOH:O	2.18	0.43
2:C:774:LEU:HA	2:C:777:ILE:HD12	2.00	0.43
3:N:21:TRP:HZ3	3:N:518:PRO:HG2	1.84	0.43
3:D:1472:ILE:HA	3:D:1473:PRO:HD3	1.84	0.43
3:D:969:ARG:HB3	3:D:969:ARG:HE	1.63	0.43
2:C:721:ARG:HH21	2:C:783:ARG:NH2	2.04	0.43
3:D:1397:LYS:NZ	3:D:1432:LYS:HB3	2.33	0.43
2:M:674:VAL:O	2:M:989:VAL:HA	2.18	0.43
3:N:1023:MET:O	3:N:1028:ALA:HB3	2.19	0.43
2:M:771:GLU:HA	9:M:1452:HOH:O	2.18	0.43
2:M:775:ARG:N	2:M:775:ARG:HD2	2.33	0.43
3:D:57:GLU:OE1	3:D:64:LYS:HE2	2.19	0.43
1:B:211:LEU:O	1:B:214:ALA:HB3	2.19	0.43
5:P:410:TYR:O	5:P:413:SER:HB2	2.18	0.43
9:B:529:HOH:O	3:D:851:LEU:HD21	2.16	0.43
2:C:549:PHE:HB3	2:C:552:HIS:CD2	2.54	0.43
2:M:1020:PRO:HD2	3:N:622:ARG:O	2.19	0.43
2:C:358:ARG:HH12	2:C:374:ASN:CG	2.22	0.43
5:P:211:ASP:N	5:P:211:ASP:OD1	2.51	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:38:ASN:HB3	1:K:39:PRO:HD3	2.00	0.43
3:D:565:ILE:HD12	3:D:565:ILE:H	1.84	0.43
2:M:63:GLY:HA3	2:M:103:LYS:CG	2.48	0.43
2:C:317:VAL:HG12	9:C:1216:HOH:O	2.19	0.43
2:C:213:ALA:N	9:C:1550:HOH:O	2.51	0.43
1:B:109:VAL:HG22	9:B:383:HOH:O	2.18	0.43
2:M:1045:ALA:HB1	2:M:1048:THR:HB	2.00	0.43
3:N:1353:GLN:HG2	3:N:1368:ILE:CD1	2.48	0.43
2:M:283:ILE:HG22	2:M:284:ARG:HG3	2.01	0.43
3:N:591:VAL:HG11	3:N:597:ASP:HA	2.01	0.43
1:A:122:ILE:HD11	9:A:394:HOH:O	2.18	0.43
5:F:119:ILE:HD11	9:F:580:HOH:O	2.18	0.43
4:O:36:LYS:HD3	4:O:36:LYS:HA	1.87	0.43
2:M:147:TYR:HB3	2:M:323:ASP:OD2	2.19	0.43
5:P:294:ALA:HB2	9:P:3652:HOH:O	2.19	0.43
2:M:183:SER:C	2:M:193:LEU:HD11	2.38	0.43
2:C:436:GLY:O	2:C:459:ALA:HB2	2.19	0.43
2:M:342:ASP:HA	2:M:345:ARG:HG2	1.99	0.43
3:D:112:ILE:HG13	3:D:124:GLU:OE2	2.19	0.43
3:N:66:GLN:O	3:N:69:GLU:HB3	2.19	0.43
3:D:521:PRO:O	3:D:525:ARG:HG2	2.19	0.43
2:C:437:ARG:HG2	2:C:467:ILE:CG2	2.47	0.43
2:C:773:LEU:HG	2:C:777:ILE:HD11	1.99	0.43
2:M:9:ILE:HD13	2:M:536:PRO:CD	2.49	0.43
2:M:546:LEU:HA	2:M:581:THR:HG1	1.82	0.43
3:N:112:ILE:HG13	3:N:124:GLU:OE2	2.19	0.43
3:N:473:LEU:HD21	3:N:495:ARG:CZ	2.48	0.43
5:P:358:LEU:HD11	5:P:367:MET:SD	2.59	0.43
2:M:405:ARG:HD2	2:M:442:GLU:OE2	2.19	0.43
2:C:332:ARG:HB2	2:C:466:PHE:CE1	2.54	0.43
4:E:35:PHE:HZ	4:E:60:ALA:HA	1.83	0.43
5:P:115:LYS:O	5:P:119:ILE:HG13	2.19	0.43
1:L:54:THR:HG22	1:L:158:ILE:HG13	2.01	0.43
3:N:834:THR:HB	3:N:838:ARG:HB3	2.00	0.43
3:D:141:ILE:HD13	3:D:450:TYR:N	2.34	0.43
2:C:286:SER:CB	2:C:299:LYS:HE3	2.48	0.43
3:N:1492:LEU:HD12	3:N:1493:LYS:CE	2.48	0.43
3:N:443:VAL:HG11	3:N:445:ARG:HE	1.82	0.43
1:L:81:ASN:ND2	1:L:128:HIS:O	2.52	0.43
3:N:1153:VAL:HG12	3:N:1155:VAL:HG23	2.00	0.43
1:A:85:LEU:HA	1:A:124:ASN:HD22	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:696:HIS:HD2	4:E:59:ASN:HB2	1.83	0.43
2:M:1089:VAL:O	2:M:1093:GLN:HG3	2.19	0.43
3:D:902:LEU:HG	9:D:9056:HOH:O	2.18	0.43
2:C:374:ASN:ND2	2:C:377:PRO:HD3	2.34	0.43
3:D:953:ASP:O	3:D:955:VAL:HG23	2.19	0.43
2:M:582:GLY:N	2:M:584:GLU:OE2	2.44	0.43
4:E:9:LEU:HD22	4:E:19:LEU:HD11	2.01	0.43
3:N:799:LYS:N	3:N:826:PRO:HG2	2.34	0.43
3:D:1148:VAL:HG21	3:D:1203:LYS:HA	2.01	0.43
2:C:881:ASN:HD22	2:C:881:ASN:N	2.14	0.43
2:C:165:LEU:HD12	2:C:166:PRO:C	2.38	0.43
3:D:960:LYS:HB3	9:D:9060:HOH:O	2.18	0.43
2:M:585:GLU:HG2	9:M:1469:HOH:O	2.18	0.43
3:D:1183:ILE:HG22	9:D:9139:HOH:O	2.17	0.43
3:D:882:PHE:O	3:D:886:VAL:HG23	2.18	0.43
5:P:262:VAL:N	9:P:4345:HOH:O	2.51	0.43
3:N:1260:ILE:HA	3:N:1260:ILE:HD13	1.86	0.43
3:N:775:GLY:HA2	9:N:9022:HOH:O	2.19	0.43
5:P:74:LYS:HG2	9:P:4226:HOH:O	2.19	0.43
2:M:81:ASP:HB3	9:M:2035:HOH:O	2.19	0.43
2:M:166:PRO:HD3	2:M:265:ARG:HG3	2.01	0.43
3:N:85:VAL:HB	3:N:89:ARG:NH1	2.33	0.43
3:N:625:TYR:N	3:N:625:TYR:CD1	2.87	0.43
3:N:749:VAL:HA	3:N:750:PRO:HD3	1.91	0.43
5:P:185:GLN:HG3	9:P:4903:HOH:O	2.19	0.43
2:C:438:ILE:HG22	2:C:439:CYS:O	2.19	0.43
2:C:409:ARG:HA	2:C:454:SER:HA	2.01	0.43
2:C:352:ALA:C	2:C:355:VAL:HG12	2.39	0.43
2:C:355:VAL:HB	9:C:1597:HOH:O	2.17	0.43
2:M:691:SER:HB2	2:M:858:MET:SD	2.59	0.43
5:F:88:ILE:CD1	5:F:193:ARG:HB2	2.44	0.43
1:L:133:GLU:N	9:L:4988:HOH:O	2.51	0.43
1:L:23:PHE:CE1	1:L:208:LEU:HD22	2.54	0.43
1:L:12:THR:OG1	1:L:24:VAL:HB	2.18	0.43
3:D:591:VAL:HG12	3:D:592:THR:O	2.19	0.43
3:D:64:LYS:N	3:D:68:PHE:HZ	2.16	0.43
1:B:44:LEU:HD11	1:B:199:ILE:HD11	1.99	0.43
2:C:564:MET:CE	2:C:846:LYS:HE2	2.49	0.43
3:D:947:ILE:O	3:D:947:ILE:HD12	2.18	0.43
3:D:1403:LEU:HD12	9:D:9824:HOH:O	2.19	0.43
2:M:358:ARG:HB3	2:M:371:LYS:O	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:110:GLU:H	2:C:368:THR:HG21	1.83	0.43
3:D:126:VAL:CG1	3:D:132:TYR:HB2	2.48	0.43
3:D:1475:GLY:HA2	4:E:17:TYR:CE1	2.54	0.43
3:N:765:SER:O	3:N:767:HIS:N	2.51	0.43
2:M:42:VAL:HG12	2:M:43:GLY:N	2.29	0.43
2:M:93:PRO:HG3	2:M:117:HIS:HE1	1.84	0.43
1:B:2:LEU:HD12	1:B:3:ASP:HB2	2.01	0.43
2:C:218:VAL:HG22	2:C:221:LEU:HD23	2.01	0.43
3:D:545:ARG:HH21	5:F:257:THR:HG23	1.83	0.43
5:P:243:ILE:O	5:P:247:ILE:HG13	2.18	0.43
3:D:1405:GLU:OE2	3:D:1413:THR:HB	2.19	0.43
3:N:1353:GLN:HE21	3:N:1353:GLN:HB3	1.64	0.43
1:A:61:VAL:HG11	1:A:75:VAL:HG21	2.01	0.43
3:D:829:VAL:HG11	9:D:9455:HOH:O	2.18	0.43
2:M:420:ARG:NE	2:M:420:ARG:H	2.17	0.43
3:D:918:ALA:O	3:D:922:LEU:HG	2.18	0.43
1:B:213:GLN:HG3	9:B:515:HOH:O	2.17	0.43
2:C:127:PHE:O	2:C:133:ASP:HA	2.19	0.43
2:M:148:PHE:HD2	2:M:160:ALA:HA	1.84	0.43
2:C:708:TYR:CE2	2:C:793:PRO:HD2	2.54	0.43
2:M:686:ASP:HB2	3:N:739:ASP:OD2	2.18	0.43
3:D:422:ALA:O	3:D:427:VAL:HG21	2.19	0.43
1:A:38:ASN:ND2	9:C:1607:HOH:O	2.52	0.43
2:C:579:VAL:HG11	2:C:887:GLU:HG3	2.01	0.43
2:M:324:ASP:CG	2:M:431:HIS:HE1	2.22	0.43
2:C:183:SER:HB2	2:C:190:LYS:HG2	2.01	0.43
2:C:777:ILE:HD13	9:C:1214:HOH:O	2.18	0.43
3:D:972:LEU:HD23	9:D:2386:HOH:O	2.19	0.43
3:D:1496:GLU:HA	3:D:1499:ARG:HG3	2.01	0.43
2:M:1036:GLU:O	2:M:1039:ALA:HB3	2.19	0.43
1:B:162:ILE:HG13	1:B:163:ASN:N	2.34	0.43
2:M:721:ARG:O	2:M:758:ARG:HA	2.19	0.43
5:P:273:ARG:O	5:P:276:ARG:HB2	2.19	0.43
3:D:806:PHE:O	3:D:807:ALA:C	2.56	0.43
3:D:164:GLY:HA2	9:D:9007:HOH:O	2.18	0.43
3:N:445:ARG:HH11	3:N:445:ARG:HG2	1.84	0.43
2:M:876:VAL:HG22	2:M:884:GLN:NE2	2.33	0.43
3:N:482:LYS:HA	3:N:489:ARG:NH2	2.34	0.43
3:D:154:THR:CG2	3:D:156:GLU:HG2	2.48	0.43
2:M:495:THR:HG21	2:M:524:VAL:HG21	2.00	0.43
3:D:702:LEU:HB3	3:D:745:MET:CE	2.49	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:134:ARG:HH12	2:M:387:SER:HA	1.82	0.43
3:D:36:THR:O	3:D:38:LYS:N	2.51	0.43
2:C:816:LYS:O	2:C:819:VAL:HB	2.19	0.43
2:M:217:LEU:HD12	2:M:311:PHE:CD2	2.54	0.43
5:F:226:LYS:HD2	5:F:242:TRP:CZ2	2.53	0.43
2:C:25:SER:CB	2:C:335:THR:HB	2.49	0.43
4:E:13:VAL:HG12	4:E:75:PHE:CE1	2.53	0.43
3:N:729:HIS:CE1	3:N:935:LYS:HD3	2.54	0.43
2:M:69:LEU:HD11	2:M:99:GLN:HE21	1.84	0.43
3:D:1013:GLU:HA	9:D:9714:HOH:O	2.18	0.43
3:D:761:ILE:HD13	4:E:20:THR:HA	2.00	0.43
1:A:1:MET:O	1:A:6:LEU:HB2	2.19	0.43
2:M:808:ARG:HD2	2:M:808:ARG:HA	1.89	0.43
1:B:165:ILE:O	1:B:165:ILE:HG13	2.19	0.43
3:D:657:LEU:HD21	3:D:687:VAL:HG13	2.00	0.43
2:M:184:MET:SD	2:M:303:PHE:HE2	2.42	0.42
2:M:1115:LEU:CB	3:N:85:VAL:HG12	2.46	0.42
3:N:760:ARG:NE	4:O:3:GLU:OE2	2.48	0.42
3:N:563:PRO:HG2	3:N:566:ILE:HB	2.01	0.42
2:C:159:ILE:HD12	9:C:1237:HOH:O	2.19	0.42
2:C:184:MET:HB2	2:C:193:LEU:HD12	2.01	0.42
3:N:135:LEU:CD1	3:N:147:VAL:HG23	2.46	0.42
3:N:153:LEU:HD12	3:N:154:THR:N	2.34	0.42
3:D:667:ALA:HB3	9:D:9062:HOH:O	2.20	0.42
3:N:1112:CYS:HB3	9:N:9751:HOH:O	2.19	0.42
2:M:565:GLN:OE1	2:M:842:ARG:HG2	2.19	0.42
2:M:605:LYS:HB2	2:M:610:ARG:NH1	2.33	0.42
1:K:133:GLU:OE2	2:M:605:LYS:HB3	2.19	0.42
2:C:321:GLU:HG2	2:C:321:GLU:H	1.57	0.42
3:N:516:ALA:O	3:N:518:PRO:HD3	2.19	0.42
3:N:1311:LEU:H	3:N:1311:LEU:HD23	1.83	0.42
3:D:396:VAL:HG22	9:D:9055:HOH:O	2.18	0.42
3:D:616:GLN:O	3:D:616:GLN:HG2	2.19	0.42
2:M:569:VAL:HG11	2:M:996:LYS:HZ2	1.83	0.42
4:E:87:LYS:HG2	9:E:103:HOH:O	2.19	0.42
2:C:299:LYS:HB2	9:C:1862:HOH:O	2.19	0.42
2:M:470:PRO:HD3	2:M:485:TYR:CE2	2.54	0.42
2:M:535:SER:O	2:M:538:GLN:HG2	2.19	0.42
1:A:34:VAL:HG21	2:C:939:ARG:NE	2.34	0.42
2:M:516:ARG:NE	3:N:1068:LEU:HD13	2.32	0.42
2:C:841:ASN:ND2	2:C:843:HIS:H	2.13	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:142:VAL:HG23	1:B:142:VAL:O	2.19	0.42
3:D:583:ASP:OD2	3:D:586:ARG:HD2	2.19	0.42
1:A:97:VAL:HG23	9:A:368:HOH:O	2.18	0.42
1:A:176:ARG:NH1	2:C:863:ASP:OD2	2.52	0.42
3:N:102:ILE:N	9:N:2184:HOH:O	2.51	0.42
3:N:1364:HIS:CE1	3:N:1366:LYS:H	2.35	0.42
5:F:419:ARG:O	5:F:421:PHE:N	2.52	0.42
3:N:1275:SER:HB3	3:N:1325:LEU:HD22	2.00	0.42
3:N:964:LEU:HB3	9:N:2215:HOH:O	2.18	0.42
3:N:1376:MET:HB2	9:N:9599:HOH:O	2.18	0.42
2:C:189:ARG:HG2	2:C:189:ARG:HH11	1.84	0.42
5:P:203:THR:HG22	5:P:204:GLY:N	2.34	0.42
1:A:20:TYR:HE2	1:A:22:GLU:HG3	1.84	0.42
5:P:195:VAL:HG12	5:P:213:ILE:HG23	2.00	0.42
2:M:414:GLY:HA3	2:M:415:PRO:HD3	1.91	0.42
2:M:464:LEU:HA	2:M:464:LEU:HD12	1.82	0.42
2:C:174:LEU:CD2	2:C:184:MET:HG3	2.49	0.42
3:D:804:LEU:HB3	9:D:9141:HOH:O	2.18	0.42
3:D:86:ARG:HG2	3:D:523:ASP:OD2	2.19	0.42
3:N:983:LEU:HD23	9:N:9324:HOH:O	2.19	0.42
2:C:983:ILE:HG21	2:C:987:ILE:CD1	2.47	0.42
5:P:370:LYS:C	5:P:370:LYS:HD2	2.39	0.42
3:D:209:ARG:NH1	3:D:397:LYS:HG3	2.34	0.42
3:D:399:ARG:HB2	3:D:444:VAL:HG13	2.00	0.42
2:C:802:ARG:HB2	9:C:2027:HOH:O	2.19	0.42
3:D:1425:THR:CG2	3:D:1426:LYS:N	2.82	0.42
3:D:1059:SER:OG	3:D:1065:LEU:HA	2.19	0.42
1:A:206:THR:HG22	1:A:209:GLU:H	1.83	0.42
3:D:704:ARG:CD	3:D:705:ALA:H	2.32	0.42
3:D:567:ILE:HG22	3:D:571:LYS:HZ2	1.84	0.42
2:M:811:PRO:HA	9:M:1349:HOH:O	2.18	0.42
2:M:603:VAL:O	2:M:646:GLY:HA2	2.19	0.42
3:N:1495:ILE:HG21	4:O:80:VAL:HG13	2.01	0.42
2:M:114:PHE:HE1	9:P:4182:HOH:O	2.01	0.42
3:D:153:LEU:HD13	3:D:157:GLU:HB2	1.99	0.42
4:E:17:TYR:CD2	4:E:17:TYR:N	2.87	0.42
3:D:32:ILE:HG22	5:F:258:ILE:HD12	2.02	0.42
2:C:197:LEU:HD22	2:C:202:TYR:CD2	2.54	0.42
3:D:1128:VAL:O	3:D:1129:THR:C	2.56	0.42
4:O:49:GLN:HA	4:O:51:LEU:O	2.19	0.42
3:N:149:LYS:HG3	3:N:149:LYS:H	1.53	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:574:LEU:O	3:D:577:ALA:HB3	2.19	0.42
1:A:180:GLN:HE22	2:C:929:ARG:NH2	2.17	0.42
3:N:1139:ASP:HB3	3:N:1357:ARG:NH2	2.34	0.42
3:D:1155:VAL:CG1	3:D:1177:ALA:HB1	2.49	0.42
2:M:1002:GLU:HG3	2:M:1002:GLU:H	1.52	0.42
1:K:52:ALA:HB2	1:K:170:VAL:O	2.19	0.42
3:D:427:VAL:HG21	3:D:435:VAL:HB	2.01	0.42
2:M:326:ASP:HB2	2:M:431:HIS:CG	2.53	0.42
5:P:361:LEU:CD2	5:P:366:ALA:HB2	2.41	0.42
1:B:26:GLU:HG2	1:B:27:PRO:CA	2.49	0.42
5:F:367:MET:HE1	9:F:519:HOH:O	2.19	0.42
3:D:1377:LYS:O	3:D:1394:VAL:HA	2.18	0.42
2:M:676:ILE:HG21	2:M:988:VAL:HG22	2.01	0.42
2:M:971:LYS:HE2	3:N:950:GLY:HA3	2.01	0.42
1:L:24:VAL:HG11	1:L:194:LYS:HE2	2.01	0.42
3:D:1278:ASP:HA	3:D:1319:VAL:O	2.19	0.42
2:M:287:GLY:O	2:M:288:ARG:C	2.58	0.42
2:M:752:GLY:N	2:M:792:VAL:HB	2.23	0.42
2:M:514:VAL:HG11	2:M:516:ARG:CZ	2.49	0.42
1:L:191:ASP:O	1:L:192:LEU:HG	2.19	0.42
2:C:474:VAL:HG13	2:C:530:GLU:C	2.40	0.42
1:K:56:VAL:HG21	1:K:82:LEU:CD1	2.49	0.42
3:N:744:GLN:HE21	3:N:744:GLN:HB3	1.62	0.42
1:B:69:PRO:O	1:B:71:VAL:HG23	2.20	0.42
1:L:140:MET:HB2	9:L:3859:HOH:O	2.18	0.42
2:C:122:THR:HG22	2:C:123:GLU:N	2.34	0.42
2:C:689:VAL:HB	2:C:870:ILE:HG13	2.01	0.42
1:K:10:VAL:HG12	1:K:12:THR:CG2	2.49	0.42
4:O:13:VAL:HG23	9:O:3506:HOH:O	2.18	0.42
3:D:1269:LYS:O	3:D:1269:LYS:HE2	2.18	0.42
3:D:180:LYS:HG2	9:D:9440:HOH:O	2.19	0.42
2:M:174:LEU:HD23	2:M:184:MET:HG2	2.02	0.42
2:C:798:GLY:HA2	9:C:1154:HOH:O	2.19	0.42
5:P:131:VAL:CG1	5:P:181:GLU:HG3	2.41	0.42
2:M:140:ILE:HD12	9:M:1151:HOH:O	2.18	0.42
2:M:412:ALA:O	2:M:414:GLY:N	2.53	0.42
3:D:800:LYS:HD3	3:D:804:LEU:HD22	2.01	0.42
3:N:1262:LEU:HD11	3:N:1351:GLU:CG	2.49	0.42
2:C:979:THR:CG2	2:C:981:GLU:HB2	2.50	0.42
2:C:479:VAL:HG23	2:C:506:ASN:C	2.40	0.42
2:C:52:PHE:HB2	9:C:1342:HOH:O	2.18	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:976:ASP:OD1	2:M:978:ARG:HD3	2.20	0.42
3:N:879:ARG:HD3	9:N:9187:HOH:O	2.18	0.42
2:M:1098:ASP:HB2	3:N:21:TRP:CZ2	2.53	0.42
2:M:1016:ILE:HD12	5:P:317:LEU:HD21	2.01	0.42
1:B:180:GLN:HB3	9:B:579:HOH:O	2.19	0.42
1:L:89:PHE:HE2	1:L:146:ARG:NE	2.17	0.42
3:N:493:ARG:CZ	3:N:493:ARG:HB2	2.49	0.42
3:N:494:LYS:HA	3:N:497:GLU:OE1	2.19	0.42
2:C:551:GLU:O	3:D:1065:LEU:HB3	2.19	0.42
3:D:528:VAL:O	3:D:535:PHE:CA	2.65	0.42
2:C:722:ILE:HG23	2:C:805:ARG:HH21	1.83	0.42
3:D:900:ILE:HD11	3:D:902:LEU:HD23	2.01	0.42
2:C:717:LEU:HB2	9:C:1324:HOH:O	2.19	0.42
2:C:404:LEU:O	2:C:408:ARG:HG2	2.19	0.42
3:N:628:ARG:HD3	3:N:744:GLN:NE2	2.35	0.42
3:D:1331:ASP:OD1	3:D:1333:HIS:HB2	2.20	0.42
3:D:152:LEU:HD23	3:D:152:LEU:N	2.34	0.42
1:K:184:THR:O	1:K:192:LEU:HD12	2.20	0.42
3:D:1274:ILE:HB	3:D:1322:GLY:HA2	2.02	0.42
3:D:762:GLN:NE2	4:E:20:THR:HG21	2.34	0.42
2:M:203:ASP:OD1	2:M:205:GLU:HG3	2.19	0.42
1:A:112:ARG:HA	9:A:459:HOH:O	2.20	0.42
3:D:1189:ARG:HB3	3:D:1204:CYS:HA	2.00	0.42
4:O:74:VAL:HB	4:O:79:LEU:HD21	2.01	0.42
1:L:48:ILE:HA	1:L:49:PRO:HD3	1.87	0.42
3:N:1344:VAL:HG12	3:N:1348:LEU:CD2	2.50	0.42
3:D:1138:ALA:HB3	9:D:9318:HOH:O	2.20	0.42
2:M:208:ALA:HB1	2:M:218:VAL:CG1	2.49	0.42
3:N:171:LEU:HD13	3:N:389:GLU:O	2.19	0.42
1:A:68:ILE:HG21	1:A:138:LEU:HD13	2.02	0.42
2:C:19:THR:HG22	2:C:22:GLN:HB2	2.01	0.42
3:D:422:ALA:H	3:D:427:VAL:CG1	2.31	0.42
3:D:8:VAL:O	3:D:1434:TRP:HH2	2.02	0.42
2:M:115:LEU:HB3	2:M:375:SER:OG	2.20	0.42
2:C:987:ILE:HG22	2:C:988:VAL:O	2.18	0.42
3:D:1311:LEU:CD2	3:D:1311:LEU:H	2.25	0.42
2:C:1013:TYR:CZ	2:C:1063:ARG:NE	2.88	0.42
3:D:1264:GLU:CD	3:D:1425:THR:HG22	2.40	0.42
5:F:80:PRO:O	5:F:83:GLN:HB2	2.20	0.42
1:L:91:ASN:H	1:L:94:LEU:CD1	2.32	0.42
2:C:678:PRO:CG	3:D:947:ILE:HD11	2.45	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:1006:HIS:C	3:N:648:MET:HE2	2.40	0.42
2:C:1002:GLU:HA	2:C:1006:HIS:HE1	1.85	0.42
3:N:1493:LYS:O	3:N:1496:GLU:HG2	2.20	0.42
3:N:850:LEU:O	3:N:853:VAL:HB	2.20	0.42
3:D:1281:VAL:HG21	3:D:1313:VAL:CG2	2.49	0.42
2:C:480:THR:HG22	2:C:482:GLU:H	1.85	0.42
2:C:147:TYR:CE2	2:C:280:LYS:HE2	2.54	0.42
2:M:44:ILE:O	2:M:48:PHE:HB2	2.19	0.42
3:N:1124:GLN:HA	3:N:1125:PRO:HD3	1.51	0.42
2:M:1012:PRO:HA	9:M:1524:HOH:O	2.19	0.42
3:D:1280:VAL:O	3:D:1294:VAL:HA	2.19	0.42
3:N:957:PRO:CG	3:N:1007:VAL:HA	2.50	0.42
2:M:742:VAL:HB	9:M:1733:HOH:O	2.17	0.42
2:C:138:SER:HB2	2:C:410:ILE:HG13	2.01	0.42
2:M:273:GLY:HA2	2:M:276:LYS:HD3	2.00	0.42
3:D:495:ARG:O	3:D:495:ARG:HG2	2.20	0.42
3:N:1108:ARG:HG2	9:N:9360:HOH:O	2.18	0.42
5:P:241:TRP:CZ3	5:P:245:GLN:HG2	2.54	0.42
3:D:1149:LEU:HD12	3:D:1161:GLU:O	2.19	0.42
2:M:475:VAL:O	2:M:475:VAL:HG23	2.19	0.42
2:C:543:ASN:HD22	2:C:543:ASN:C	2.23	0.42
1:B:151:VAL:HB	1:B:169:ALA:HB3	2.00	0.42
3:N:186:VAL:HG23	3:N:211:VAL:CG1	2.50	0.42
3:N:78:VAL:HG12	3:N:78:VAL:O	2.20	0.42
3:N:30:GLU:N	9:N:9441:HOH:O	2.52	0.42
2:C:1054:THR:HB	2:C:1055:LEU:H	1.57	0.42
1:B:86:VAL:HG12	1:B:124:ASN:HB2	2.01	0.42
5:F:88:ILE:O	5:F:92:PRO:HG3	2.20	0.42
5:P:119:ILE:HD13	5:P:170:HIS:CG	2.54	0.42
3:N:955:VAL:HB	3:N:1011:PHE:CE1	2.53	0.42
3:D:1139:ASP:CB	9:D:2265:HOH:O	2.62	0.42
4:O:26:ARG:HH11	4:O:29:GLN:CD	2.23	0.42
2:C:571:LEU:HD13	2:C:669:GLY:H	1.84	0.42
2:M:473:ARG:HG3	2:M:474:VAL:N	2.35	0.42
3:N:1485:GLN:HG2	3:N:1485:GLN:H	1.69	0.42
3:D:895:VAL:O	3:D:899:LEU:HG	2.19	0.42
1:K:9:PRO:HB3	1:K:25:LEU:HG	2.01	0.42
1:K:58:ILE:HD12	1:K:138:LEU:CD1	2.47	0.42
2:C:207:LEU:HD13	2:C:221:LEU:CD1	2.50	0.42
2:C:837:ASP:O	2:C:848:VAL:HG13	2.20	0.42
3:D:1000:THR:HG23	3:D:1001:GLU:N	2.35	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:929:ARG:HH11	2:C:929:ARG:HG3	1.84	0.42
3:N:36:THR:O	3:N:38:LYS:N	2.53	0.42
3:N:937:TYR:HB3	3:N:941:PHE:CE1	2.55	0.42
3:N:397:LYS:HD3	9:N:9346:HOH:O	2.18	0.42
5:F:167:PRO:HB2	5:F:169:GLU:OE1	2.20	0.42
3:N:610:LYS:C	3:N:611:GLN:HG2	2.39	0.42
1:L:69:PRO:HG3	9:L:7028:HOH:O	2.18	0.42
2:M:170:PRO:HG2	2:M:258:TYR:CD2	2.55	0.42
2:M:291:ALA:O	2:M:299:LYS:HE2	2.19	0.42
3:D:520:LEU:CD2	3:D:540:LEU:HD22	2.50	0.42
1:L:219:ARG:O	1:L:223:THR:HG23	2.18	0.42
5:F:136:LEU:HD12	5:F:137:GLY:N	2.35	0.42
3:D:601:ARG:NH1	5:F:328:PHE:HD1	2.18	0.42
3:D:1103:HIS:N	9:D:9090:HOH:O	2.53	0.42
3:D:1209:LEU:CD2	3:D:1211:MET:HB3	2.49	0.42
2:M:136:ILE:CG2	2:M:336:VAL:HG13	2.50	0.42
3:N:1209:LEU:CD2	3:N:1210:SER:H	2.29	0.42
2:M:1042:ALA:HB1	3:N:710:ARG:HD3	2.02	0.42
2:M:771:GLU:HG3	9:M:1452:HOH:O	2.19	0.42
3:D:1045:MET:CE	3:D:1045:MET:HA	2.49	0.42
3:N:809:PRO:HG2	9:N:9787:HOH:O	2.19	0.42
2:C:1104:GLU:HB3	9:C:1420:HOH:O	2.18	0.42
2:C:358:ARG:HB3	2:C:371:LYS:O	2.19	0.42
3:D:175:VAL:HG13	3:D:217:LYS:CB	2.50	0.42
3:N:963:TYR:CE2	3:N:1002:LYS:HB3	2.55	0.42
2:C:221:LEU:HG	2:C:222:MET:N	2.35	0.42
2:M:1100:GLN:HB2	2:M:1100:GLN:HE21	1.59	0.42
3:D:1129:THR:HB	9:D:9663:HOH:O	2.19	0.42
4:O:25:LYS:HG2	4:O:28:GLN:HE22	1.85	0.42
2:C:496:ILE:N	2:C:496:ILE:HD12	2.34	0.42
3:D:1164:ARG:HG3	3:D:1164:ARG:NH1	2.34	0.42
1:K:5:LYS:HE3	9:L:6423:HOH:O	2.18	0.42
2:C:196:LEU:HB3	9:C:1668:HOH:O	2.19	0.42
2:M:242:LEU:HD22	9:M:1173:HOH:O	2.19	0.42
3:N:786:ILE:CD1	3:N:908:LYS:HB3	2.50	0.42
2:C:905:ILE:N	2:C:905:ILE:HD12	2.34	0.42
2:C:165:LEU:HD12	2:C:166:PRO:CA	2.49	0.42
2:M:816:LYS:HB2	2:M:819:VAL:HG21	2.01	0.42
2:C:492:ASP:HB3	2:C:518:LYS:CD	2.49	0.42
3:N:775:GLY:HA3	3:N:1145:TYR:CE1	2.54	0.42
3:D:1275:SER:HB3	3:D:1325:LEU:HD13	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:5:ARG:HH11	2:C:5:ARG:HG2	1.85	0.42
2:C:527:GLU:HG2	2:C:527:GLU:H	1.54	0.42
3:N:1285:GLU:H	3:N:1285:GLU:CD	2.23	0.42
2:M:782:ALA:HB1	9:M:2039:HOH:O	2.19	0.42
2:M:958:THR:HG23	2:M:961:GLU:H	1.84	0.42
2:M:290:LEU:HB3	2:M:302:VAL:HG12	2.01	0.42
3:N:197:SER:CB	3:N:203:ALA:HB3	2.27	0.42
2:M:419:THR:N	9:M:2102:HOH:O	2.52	0.42
5:P:321:ILE:HG12	5:P:327:SER:O	2.20	0.42
2:M:409:ARG:HG3	2:M:454:SER:HB3	2.01	0.42
2:M:925:TYR:HE1	2:M:929:ARG:NH1	2.18	0.42
5:F:363:GLU:HA	5:F:367:MET:HG2	2.02	0.42
3:D:550:ARG:NH1	3:D:573:MET:HB3	2.35	0.42
2:M:244:PRO:CD	2:M:245:GLY:N	2.83	0.42
1:A:177:VAL:HG12	1:A:178:ALA:N	2.35	0.42
2:M:397:GLU:H	2:M:633:GLN:CD	2.23	0.42
3:D:1112:CYS:HA	9:D:9558:HOH:O	2.20	0.42
3:D:122:GLU:HA	3:D:122:GLU:OE1	2.18	0.42
3:D:1489:GLN:OE1	3:D:1492:LEU:HD12	2.19	0.42
2:C:420:ARG:HG2	2:C:422:ARG:HG2	2.02	0.42
3:N:462:GLN:HA	3:N:513:ILE:CD1	2.49	0.42
2:C:1014:SER:HB3	2:C:1017:THR:O	2.20	0.42
4:O:86:GLN:HB3	4:O:86:GLN:HE21	1.72	0.42
5:P:94:LEU:HD23	5:P:96:LEU:H	1.85	0.42
3:N:93:ILE:CD1	3:N:548:ILE:HD11	2.49	0.42
2:C:129:ILE:CG1	2:C:386:PHE:HB3	2.49	0.42
3:D:1107:VAL:O	3:D:1218:GLY:N	2.43	0.42
5:F:300:ASP:CG	5:F:301:ALA:N	2.73	0.42
3:D:169:TYR:HA	3:D:392:SER:HA	2.02	0.42
3:D:439:LEU:HD21	9:F:435:HOH:O	2.20	0.42
2:C:462:ASP:CG	2:C:463:GLU:H	2.23	0.42
1:L:147:GLY:N	1:L:171:PHE:CE1	2.87	0.42
5:P:157:GLU:HG2	9:P:3795:HOH:O	2.20	0.42
2:C:443:THR:HA	2:C:444:PRO:HD3	1.72	0.42
3:N:196:VAL:HG13	3:N:202:VAL:CG1	2.49	0.42
3:D:188:GLY:HA3	9:D:2377:HOH:O	2.19	0.42
2:C:394:PHE:HE1	9:C:2065:HOH:O	2.02	0.42
5:F:194:LEU:HD23	9:F:591:HOH:O	2.20	0.42
3:D:684:LYS:HG3	9:D:9754:HOH:O	2.18	0.42
2:C:199:VAL:HG13	2:C:235:LEU:CG	2.50	0.42
2:C:395:LYS:HE3	2:C:407:LYS:HE3	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:38:ASN:HD22	1:B:38:ASN:HA	1.62	0.42
3:N:152:LEU:CD2	3:N:152:LEU:H	2.24	0.42
3:D:395:VAL:HG12	9:D:9458:HOH:O	2.19	0.42
3:D:397:LYS:HE2	9:D:2321:HOH:O	2.20	0.42
2:M:1060:ILE:HG22	2:M:1061:GLU:H	1.83	0.42
3:N:703:ASN:ND2	3:N:704:ARG:N	2.66	0.42
2:C:674:VAL:O	2:C:989:VAL:HA	2.19	0.42
3:D:66:GLN:O	3:D:69:GLU:HB3	2.20	0.42
1:B:208:LEU:CD1	1:B:212:ASN:HD21	2.33	0.42
3:D:1059:SER:HB2	9:D:9027:HOH:O	2.20	0.42
2:C:611:ILE:HD11	2:C:641:PRO:CG	2.50	0.42
3:D:1379:VAL:CG1	3:D:1395:LEU:HD23	2.48	0.42
3:N:441:ARG:HG3	9:N:2261:HOH:O	2.19	0.42
3:D:792:ILE:O	3:D:878:GLY:HA3	2.20	0.42
3:N:1156:LEU:HD11	3:N:1176:LYS:HD2	2.02	0.42
1:K:210:ALA:HA	1:K:213:GLN:HE21	1.83	0.42
2:M:157:ARG:HG2	2:M:157:ARG:NH1	2.33	0.42
2:C:31:GLN:HB3	2:C:71:TYR:OH	2.19	0.42
2:C:420:ARG:HG2	2:C:422:ARG:CG	2.50	0.42
3:D:178:LEU:CD2	3:D:199:LEU:H	2.32	0.42
5:F:378:GLY:HA2	9:F:832:HOH:O	2.20	0.42
2:M:48:PHE:HD1	9:M:1409:HOH:O	2.03	0.42
3:D:30:GLU:HG3	3:D:41:ARG:HG2	2.00	0.42
1:L:101:LEU:HD21	1:L:113:ASP:HB3	2.00	0.42
9:M:1524:HOH:O	5:P:340:SER:HB2	2.18	0.42
1:A:96:THR:N	9:A:513:HOH:O	2.53	0.42
1:A:180:GLN:HE21	1:A:180:GLN:HB3	1.61	0.42
1:L:73:GLU:HB3	1:L:77:GLU:HG3	2.02	0.42
4:E:37:ASN:HA	4:E:93:TYR:CE2	2.54	0.42
2:C:127:PHE:HA	9:C:1619:HOH:O	2.19	0.42
3:N:196:VAL:HG21	9:N:2241:HOH:O	2.19	0.42
3:D:249:TYR:HA	9:D:2084:HOH:O	2.18	0.42
1:L:211:LEU:O	1:L:214:ALA:HB3	2.19	0.42
2:C:447:ALA:O	2:C:449:ILE:N	2.53	0.42
1:B:48:ILE:HD13	1:B:210:ALA:HB1	2.01	0.42
2:M:776:SER:HB3	9:M:1271:HOH:O	2.19	0.42
3:N:186:VAL:HG11	3:N:213:VAL:HB	2.02	0.42
3:N:81:THR:HG22	3:N:82:LYS:H	1.85	0.42
1:A:26:GLU:HG3	1:A:184:THR:HG21	2.02	0.42
2:M:423:ALA:HB3	9:M:1712:HOH:O	2.18	0.42
3:D:658:LEU:HD11	3:D:674:ARG:HH11	1.85	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:56:GLU:HB3	9:C:1339:HOH:O	2.19	0.42
5:P:260:ILE:HG23	5:P:264:MET:CB	2.46	0.42
3:N:1065:LEU:HD11	3:N:1069:GLU:C	2.41	0.42
3:N:1065:LEU:HD11	3:N:1070:TYR:N	2.35	0.42
2:C:838:LYS:HE2	2:C:997:LEU:HB3	2.01	0.42
2:C:78:PHE:HB3	2:C:79:PRO:CD	2.50	0.42
3:N:1305:LEU:HD22	3:N:1309:ALA:CB	2.50	0.42
3:N:1084:THR:HG23	3:N:1087:ARG:NH1	2.35	0.42
3:N:1462:LEU:O	3:N:1466:VAL:HB	2.20	0.42
2:M:252:LYS:HB3	2:M:298:PHE:HZ	1.85	0.42
5:F:262:VAL:HG23	9:F:670:HOH:O	2.19	0.42
2:C:86:LYS:HG3	2:C:813:VAL:HG12	2.02	0.42
2:M:1109:VAL:HG12	2:M:1110:ASP:N	2.35	0.42
3:D:565:ILE:HD12	3:D:565:ILE:N	2.35	0.42
3:D:1007:VAL:O	3:D:1010:ASN:HB3	2.20	0.42
4:O:62:THR:HA	4:O:65:MET:CE	2.50	0.42
3:N:1128:VAL:O	3:N:1129:THR:C	2.58	0.42
3:N:1004:THR:HG22	9:N:9321:HOH:O	2.20	0.42
2:C:191:PHE:CE2	2:C:196:LEU:HD12	2.55	0.42
2:C:1051:GLU:OE2	3:D:751:LEU:HB2	2.20	0.42
3:D:34:TYR:N	3:D:34:TYR:HD2	2.18	0.42
3:N:759:ALA:HA	3:N:763:MET:HB3	2.02	0.42
2:M:289:THR:O	2:M:291:ALA:N	2.53	0.41
2:M:626:ARG:HB2	2:M:626:ARG:HH11	1.84	0.41
2:C:146:VAL:HG23	9:C:1227:HOH:O	2.19	0.41
5:F:113:ILE:HG23	5:F:127:ILE:CG2	2.49	0.41
2:M:537:LYS:CG	2:M:905:ILE:HD11	2.50	0.41
3:N:112:ILE:O	3:N:116:LEU:HB2	2.20	0.41
3:D:1472:ILE:HG22	3:D:1474:ALA:O	2.20	0.41
3:D:1196:THR:HG22	9:D:9004:HOH:O	2.20	0.41
3:D:1105:ILE:HD11	3:D:1374:GLN:CD	2.40	0.41
3:D:1394:VAL:HB	3:D:1397:LYS:CD	2.48	0.41
3:D:131:LYS:HE3	5:F:83:GLN:NE2	2.34	0.41
3:N:1389:LEU:HD12	3:N:1390:LEU:HD23	2.02	0.41
1:L:13:VAL:HG11	1:L:208:LEU:HD11	2.02	0.41
3:N:1165:TYR:HD1	9:N:2038:HOH:O	2.02	0.41
4:O:45:ARG:HB2	4:O:46:PRO:HD2	2.01	0.41
2:C:99:GLN:HB2	9:C:1802:HOH:O	2.18	0.41
2:C:864:GLY:O	2:C:866:PRO:HD3	2.19	0.41
2:M:783:ARG:HD3	9:M:1522:HOH:O	2.19	0.41
1:L:111:ALA:HB3	1:L:124:ASN:O	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:218:LEU:HG	1:L:222:LEU:HD11	2.02	0.41
3:N:1155:VAL:HG11	3:N:1177:ALA:CB	2.50	0.41
2:C:428:ARG:HD3	2:C:450:GLY:N	2.31	0.41
2:M:503:LEU:HD13	2:M:507:ARG:O	2.20	0.41
3:D:527:MET:CE	5:F:258:ILE:HD11	2.50	0.41
2:C:198:ARG:CZ	2:C:203:ASP:HA	2.50	0.41
1:K:79:ILE:HA	1:K:82:LEU:HD12	2.02	0.41
5:P:85:LEU:HD22	9:P:4990:HOH:O	2.20	0.41
2:M:1103:ASP:HB3	2:M:1105:LYS:O	2.20	0.41
3:N:1122:LEU:HD12	9:N:9340:HOH:O	2.19	0.41
5:P:417:LYS:HD3	9:P:5784:HOH:O	2.20	0.41
3:D:28:LYS:O	3:D:43:GLY:HA2	2.20	0.41
3:D:29:PRO:CB	3:D:545:ARG:HG2	2.49	0.41
1:K:140:MET:HG3	1:K:142:VAL:HG12	2.02	0.41
2:C:129:ILE:HG12	2:C:386:PHE:HB3	2.02	0.41
3:D:1004:THR:O	3:D:1007:VAL:HG22	2.21	0.41
3:D:868:TYR:HB3	3:D:873:LEU:HD12	2.01	0.41
1:L:88:ARG:NH1	1:L:88:ARG:HG2	2.34	0.41
3:N:892:ASP:HB3	3:N:895:VAL:HG23	2.02	0.41
2:M:100:LEU:HD12	2:M:101:ILE:O	2.20	0.41
1:A:227:ASN:HD22	1:A:227:ASN:N	2.18	0.41
4:O:40:LEU:CD2	4:O:67:GLU:HA	2.49	0.41
2:C:357:GLU:HB2	9:C:1268:HOH:O	2.20	0.41
2:M:497:ALA:HA	2:M:515:ALA:HA	2.01	0.41
3:N:1269:LYS:HD3	3:N:1269:LYS:C	2.40	0.41
2:M:393:GLN:HB2	2:M:393:GLN:HE21	1.69	0.41
3:D:613:ARG:HA	3:D:613:ARG:HD3	1.78	0.41
3:N:1236:LEU:HD11	3:N:1356:TYR:CE1	2.54	0.41
5:F:122:LEU:HD21	9:F:541:HOH:O	2.19	0.41
2:M:690:ILE:HD12	2:M:833:LEU:HD23	2.02	0.41
2:C:290:LEU:HB3	2:C:302:VAL:CG1	2.50	0.41
3:D:598:ARG:CG	3:D:598:ARG:HH11	2.28	0.41
3:D:1463:LYS:HD3	3:D:1463:LYS:HA	1.97	0.41
3:D:1101:VAL:HG12	3:D:1374:GLN:HB3	2.02	0.41
2:C:244:PRO:HG2	2:C:246:ASP:CG	2.41	0.41
2:M:717:LEU:HB2	2:M:761:PHE:HB2	2.01	0.41
3:N:704:ARG:CZ	3:N:737:ASN:O	2.69	0.41
3:N:1389:LEU:HD12	3:N:1390:LEU:H	1.84	0.41
3:D:591:VAL:CG1	3:D:597:ASP:HA	2.50	0.41
1:B:117:VAL:HB	9:B:441:HOH:O	2.20	0.41
2:M:411:SER:CA	2:M:452:ILE:HG23	2.46	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:546:LEU:HB2	2:C:565:GLN:HE22	1.85	0.41
2:C:945:ARG:HG3	2:C:946:ARG:H	1.84	0.41
1:B:219:ARG:O	1:B:223:THR:HG23	2.20	0.41
2:M:557:ARG:NH1	2:M:879:ARG:HG2	2.35	0.41
2:M:525:SER:OG	2:M:528:GLU:HG2	2.20	0.41
3:N:73:CYS:HB3	3:N:76:CYS:O	2.20	0.41
2:C:91:GLN:HA	2:C:119:PRO:HA	2.02	0.41
2:C:86:LYS:HG2	2:C:813:VAL:HG12	2.01	0.41
5:P:202:TYR:OH	5:P:244:ARG:HD2	2.19	0.41
1:B:68:ILE:HD12	1:B:71:VAL:HG21	2.02	0.41
5:P:293:GLU:HB3	9:P:4691:HOH:O	2.20	0.41
2:C:140:ILE:HD12	2:C:140:ILE:N	2.35	0.41
1:B:75:VAL:O	1:B:79:ILE:HG23	2.19	0.41
3:D:1286:THR:HG21	9:D:9432:HOH:O	2.20	0.41
3:D:1041:LEU:HD12	3:D:1058:ARG:C	2.40	0.41
2:M:256:TYR:HA	9:M:2103:HOH:O	2.19	0.41
3:D:729:HIS:ND1	3:D:731:LEU:N	2.66	0.41
2:C:525:SER:OG	2:C:528:GLU:HG3	2.19	0.41
2:M:205:GLU:OE1	2:M:206:THR:N	2.53	0.41
2:M:598:GLU:O	2:M:651:LYS:HG3	2.20	0.41
2:M:663:ASN:HD22	2:M:663:ASN:HA	1.53	0.41
3:N:74:GLU:HG3	9:N:9879:HOH:O	2.19	0.41
3:D:490:ALA:HA	9:D:9772:HOH:O	2.20	0.41
1:K:100:LEU:O	1:K:115:LEU:HG	2.20	0.41
2:C:705:ILE:HA	2:C:827:VAL:O	2.20	0.41
3:N:1397:LYS:NZ	3:N:1432:LYS:HB3	2.35	0.41
2:M:158:TYR:CE1	2:M:313:LEU:HG	2.55	0.41
3:D:124:GLU:HG2	3:D:128:TYR:CZ	2.55	0.41
2:M:695:LEU:HD21	2:M:833:LEU:HB3	2.02	0.41
1:B:86:VAL:HG12	1:B:124:ASN:ND2	2.22	0.41
1:B:86:VAL:O	1:B:86:VAL:HG13	2.20	0.41
3:D:90:MET:HE1	3:D:518:PRO:HB3	2.02	0.41
1:B:194:LYS:HZ2	1:B:194:LYS:HB2	1.84	0.41
3:N:1290:LEU:CD2	3:N:1291:SER:H	2.20	0.41
2:M:22:GLN:O	2:M:121:MET:HE1	2.20	0.41
2:C:687:ALA:C	2:C:688:ILE:HD12	2.40	0.41
2:C:858:MET:SD	2:C:867:VAL:O	2.78	0.41
1:L:26:GLU:CD	1:L:194:LYS:HE3	2.40	0.41
4:O:45:ARG:HD2	4:O:47:LYS:CE	2.50	0.41
2:C:36:PRO:HB2	2:C:70:GLU:OE2	2.20	0.41
1:B:24:VAL:HG13	1:B:196:THR:CG2	2.45	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:166:GLN:HG2	3:N:207:PHE:CG	2.55	0.41
2:C:163:ILE:HB	2:C:171:TRP:CZ2	2.56	0.41
2:C:552:HIS:CD2	2:C:886:LEU:HD12	2.55	0.41
2:C:831:ARG:NH1	9:C:2048:HOH:O	2.52	0.41
2:C:584:GLU:H	2:C:584:GLU:CD	2.23	0.41
2:M:516:ARG:CZ	3:N:1068:LEU:HD22	2.49	0.41
1:A:124:ASN:OD1	1:A:127:LEU:HB3	2.20	0.41
1:A:211:LEU:O	1:A:214:ALA:HB3	2.20	0.41
2:C:722:ILE:O	2:C:722:ILE:HD13	2.20	0.41
1:K:58:ILE:HG21	1:K:68:ILE:CD1	2.50	0.41
2:C:147:TYR:HD1	9:C:1799:HOH:O	2.01	0.41
3:D:178:LEU:CD1	3:D:200:ASP:H	2.34	0.41
3:D:925:GLU:OE1	4:E:6:ILE:HG22	2.21	0.41
3:D:633:VAL:HG22	3:D:635:PRO:CD	2.47	0.41
2:M:1034:GLU:HB3	3:N:618:LEU:O	2.19	0.41
2:M:1105:LYS:HB2	2:M:1107:ASN:HD22	1.85	0.41
2:M:1104:GLU:HA	3:N:6:ARG:HH11	1.86	0.41
2:M:601:GLY:HA3	2:M:615:TYR:HA	2.01	0.41
2:M:102:HIS:HB3	2:M:104:ASP:O	2.20	0.41
3:N:708:LEU:HD23	3:N:708:LEU:HA	1.85	0.41
5:F:74:LYS:HD3	5:F:74:LYS:HA	1.88	0.41
2:M:1083:GLU:O	2:M:1087:VAL:HB	2.20	0.41
1:A:149:GLY:O	1:A:171:PHE:HB2	2.20	0.41
5:F:410:TYR:O	5:F:413:SER:HB2	2.19	0.41
3:D:689:ASP:O	3:D:693:GLU:HB2	2.20	0.41
5:P:234:LYS:HD3	5:P:236:SER:HB3	2.02	0.41
3:D:1363:LEU:HD12	3:D:1364:HIS:O	2.20	0.41
3:D:124:GLU:HG2	3:D:128:TYR:CE1	2.56	0.41
3:N:450:TYR:HD1	3:N:450:TYR:HA	1.67	0.41
2:C:1115:LEU:CG	3:D:85:VAL:HG13	2.50	0.41
2:M:691:SER:CB	2:M:858:MET:SD	3.09	0.41
2:C:305:PRO:HG2	9:C:1198:HOH:O	2.19	0.41
3:N:115:LEU:HD22	3:N:502:PHE:CE1	2.55	0.41
3:N:119:SER:H	3:N:123:LEU:CB	2.30	0.41
3:N:502:PHE:CZ	3:N:509:PRO:HB3	2.55	0.41
3:N:525:ARG:N	3:N:526:PRO:HD3	2.35	0.41
3:D:516:ALA:O	3:D:518:PRO:HD3	2.21	0.41
3:N:1290:LEU:HD11	3:N:1311:LEU:HD22	2.02	0.41
2:C:598:GLU:HG3	2:C:623:TYR:OH	2.21	0.41
3:D:187:LYS:HA	3:D:187:LYS:HD3	1.86	0.41
3:D:1097:LYS:O	3:D:1101:VAL:HG23	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1476:THR:C	3:N:1478:SER:H	2.24	0.41
1:L:18:ARG:O	1:L:207:PRO:HD3	2.20	0.41
1:K:18:ARG:HH11	1:K:123:MET:CE	2.33	0.41
4:O:41:GLU:HB3	9:O:5925:HOH:O	2.19	0.41
3:N:679:ARG:HH21	3:N:681:ARG:HE	1.68	0.41
3:D:65:ARG:N	3:D:68:PHE:HZ	2.18	0.41
3:D:1042:ARG:O	3:D:1057:VAL:HB	2.20	0.41
3:D:1065:LEU:HD11	3:D:1070:TYR:N	2.35	0.41
3:D:781:PRO:HG2	3:D:911:LEU:HD23	2.03	0.41
3:D:475:LYS:HA	3:D:478:LEU:HG	2.01	0.41
2:M:86:LYS:CE	2:M:813:VAL:HG12	2.51	0.41
2:C:889:HIS:CE1	3:D:951:ILE:H	2.36	0.41
2:C:287:GLY:O	2:C:288:ARG:C	2.58	0.41
3:D:150:ARG:HH11	3:D:150:ARG:CG	2.30	0.41
2:M:516:ARG:NH1	3:N:1068:LEU:HD22	2.36	0.41
2:M:748:GLU:CA	2:M:799:ILE:HG22	2.50	0.41
5:F:396:ARG:NH1	9:F:512:HOH:O	2.53	0.41
1:B:99:LEU:HD12	1:B:114:PHE:CD2	2.54	0.41
3:N:1047:LYS:HB3	3:N:1048:PRO:HD2	2.01	0.41
3:N:1048:PRO:O	3:N:1079:LYS:HE2	2.20	0.41
2:C:666:LEU:CD2	2:C:668:LEU:HD11	2.49	0.41
3:N:462:GLN:CA	3:N:513:ILE:HD13	2.49	0.41
3:D:1130:ARG:CB	3:D:1130:ARG:HH11	2.33	0.41
2:M:654:LEU:HD21	2:M:657:ASP:OD2	2.21	0.41
5:P:392:VAL:CG1	5:P:396:ARG:HG3	2.50	0.41
2:M:352:ALA:O	2:M:355:VAL:HG12	2.20	0.41
2:M:890:LEU:HA	2:M:914:ILE:HD13	2.01	0.41
3:D:796:ARG:HA	3:D:797:LYS:HE2	2.02	0.41
3:N:674:ARG:HB3	9:N:2271:HOH:O	2.20	0.41
5:F:134:LYS:NZ	9:F:799:HOH:O	2.53	0.41
2:C:952:LEU:HD12	2:C:969:GLN:OE1	2.19	0.41
3:D:799:LYS:HB3	3:D:826:PRO:HG2	2.03	0.41
1:K:181:VAL:HG11	1:K:193:ASP:OD2	2.20	0.41
5:F:208:SER:HB3	9:F:450:HOH:O	2.19	0.41
2:C:277:ALA:HB1	9:C:1539:HOH:O	2.21	0.41
3:N:717:GLN:N	3:N:717:GLN:HE21	2.18	0.41
1:L:62:LEU:HD12	1:L:62:LEU:N	2.35	0.41
2:C:878:SER:HA	9:D:9975:HOH:O	2.20	0.41
2:C:45:GLN:HG2	9:C:2162:HOH:O	2.20	0.41
4:E:70:THR:HG22	4:E:71:GLY:N	2.35	0.41
2:C:456:ALA:HB1	2:C:538:GLN:O	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:172:PRO:HA	3:N:173:PRO:HD3	1.64	0.41
3:D:1236:LEU:HD11	3:D:1356:TYR:CE1	2.56	0.41
2:C:911:GLU:O	2:C:914:ILE:HG22	2.21	0.41
3:D:793:THR:O	3:D:879:ARG:NH1	2.50	0.41
3:D:661:MET:HA	3:D:666:ILE:HD12	2.02	0.41
2:M:575:GLN:OE1	2:M:670:GLN:HB3	2.21	0.41
4:E:15:SER:O	4:E:18:ARG:HB3	2.21	0.41
3:N:502:PHE:CZ	3:N:1452:ILE:HG13	2.55	0.41
2:M:1016:ILE:HG23	3:N:526:PRO:HG2	2.03	0.41
2:C:1060:ILE:HD12	2:C:1063:ARG:CZ	2.50	0.41
2:C:1036:GLU:O	2:C:1039:ALA:HB3	2.20	0.41
2:M:442:GLU:HB3	2:M:453:THR:OG1	2.20	0.41
3:D:209:ARG:HB2	3:D:395:VAL:O	2.20	0.41
3:N:1478:SER:O	3:N:1482:ARG:HG3	2.20	0.41
1:K:119:ASP:HA	9:K:4192:HOH:O	2.20	0.41
3:D:553:ARG:HD2	3:D:570:GLU:OE2	2.20	0.41
3:N:1346:ARG:HB2	3:N:1346:ARG:NH1	2.36	0.41
3:N:1346:ARG:HG2	9:N:2202:HOH:O	2.19	0.41
2:C:611:ILE:HD13	2:C:625:LEU:HD11	2.02	0.41
3:D:806:PHE:O	3:D:806:PHE:CG	2.72	0.41
3:N:639:LEU:HD21	3:N:931:LEU:HD13	2.02	0.41
5:P:338:LEU:HA	5:P:339:PRO:HD3	1.87	0.41
3:N:399:ARG:HH21	3:N:432:TYR:HE2	1.66	0.41
3:N:484:PRO:O	3:N:489:ARG:HD2	2.20	0.41
1:A:111:ALA:HB3	1:A:124:ASN:O	2.20	0.41
3:D:6:ARG:HH11	3:D:6:ARG:HB2	1.85	0.41
1:B:123:MET:O	1:B:125:PRO:HD3	2.20	0.41
2:M:577:PRO:HA	2:M:993:PHE:CD2	2.55	0.41
2:C:9:ILE:HG12	2:C:907:ASP:OD2	2.21	0.41
2:C:129:ILE:N	9:C:1435:HOH:O	2.54	0.41
2:C:129:ILE:HG22	2:C:130:ASN:N	2.34	0.41
3:D:1217:ILE:HD12	3:D:1480:PHE:CE2	2.53	0.41
5:P:113:ILE:HG23	5:P:127:ILE:HG22	2.03	0.41
3:D:811:GLU:HG3	9:D:9257:HOH:O	2.20	0.41
5:P:108:GLU:OE1	5:P:108:GLU:HA	2.19	0.41
5:P:328:PHE:HA	5:P:328:PHE:HD2	1.73	0.41
3:N:413:ASP:OD1	3:N:419:ASP:HA	2.21	0.41
2:C:591:SER:HB2	9:C:2055:HOH:O	2.20	0.41
1:K:2:LEU:O	1:K:6:LEU:HB3	2.21	0.41
3:D:852:ALA:HB1	3:D:857:ILE:HB	2.02	0.41
2:M:1081:VAL:HA	9:N:9064:HOH:O	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:254:VAL:HA	2:M:257:VAL:HG23	2.02	0.41
2:M:302:VAL:C	2:M:305:PRO:HD2	2.41	0.41
2:C:460:ARG:HD2	2:C:485:TYR:CE2	2.56	0.41
3:D:197:SER:HB2	3:D:205:TYR:CZ	2.56	0.41
2:M:158:TYR:CD1	2:M:313:LEU:HD21	2.55	0.41
3:N:702:LEU:HD23	3:N:745:MET:CE	2.50	0.41
2:C:19:THR:HG22	2:C:19:THR:O	2.21	0.41
3:D:1356:TYR:CD1	3:D:1356:TYR:N	2.88	0.41
3:D:1447:LEU:O	3:D:1448:THR:C	2.59	0.41
3:D:127:LEU:HD21	3:D:461:ILE:CD1	2.47	0.41
3:N:573:MET:SD	5:P:210:LEU:HD22	2.61	0.41
5:P:209:PHE:O	5:P:213:ILE:HG13	2.20	0.41
2:M:425:PHE:HA	9:M:1180:HOH:O	2.18	0.41
3:N:43:GLY:HA2	9:N:9381:HOH:O	2.20	0.41
3:D:1310:ARG:HG3	3:D:1327:ARG:CZ	2.51	0.41
2:C:1012:PRO:HD3	2:C:1026:GLN:HG2	2.03	0.41
2:C:1098:ASP:HB2	3:D:21:TRP:CZ2	2.45	0.41
2:C:43:GLY:O	2:C:46:ALA:HB3	2.21	0.41
3:D:1498:ALA:HB2	4:E:88:GLU:OE1	2.21	0.41
5:P:306:GLU:O	5:P:310:ILE:HG13	2.21	0.41
2:M:677:MET:HG2	2:M:987:ILE:HG21	2.02	0.41
4:O:54:LEU:HD23	4:O:58:PRO:HD2	2.02	0.41
3:N:806:PHE:O	3:N:807:ALA:C	2.58	0.41
3:D:1168:MET:HE3	3:D:1171:VAL:HB	2.02	0.41
3:D:65:ARG:N	3:D:68:PHE:CZ	2.87	0.41
2:M:31:GLN:HB2	9:M:2110:HOH:O	2.20	0.41
3:N:853:VAL:CG2	3:N:858:VAL:HG23	2.51	0.41
1:A:211:LEU:O	1:A:215:VAL:HG13	2.20	0.41
5:P:151:LEU:HB3	5:P:155:THR:H	1.86	0.41
2:M:580:MET:SD	2:M:584:GLU:HG3	2.60	0.41
3:D:838:ARG:HH11	3:D:874:GLU:CB	2.30	0.41
3:N:584:ASN:HB3	9:N:9185:HOH:O	2.19	0.41
2:C:860:HIS:CE1	2:C:975:TYR:HB2	2.56	0.41
3:N:799:LYS:N	9:N:9025:HOH:O	2.53	0.41
2:M:615:TYR:HB2	2:M:617:ASP:OD1	2.20	0.41
1:B:173:PRO:HB2	1:B:205:VAL:HG22	2.03	0.41
3:D:1164:ARG:HH11	3:D:1164:ARG:HG3	1.85	0.41
3:N:789:LEU:O	3:N:792:ILE:HG23	2.21	0.41
1:L:150:TYR:HE2	3:N:857:ILE:HG13	1.85	0.41
1:L:212:ASN:HA	1:L:212:ASN:HD22	1.70	0.41
2:M:203:ASP:HB2	9:M:1152:HOH:O	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1341:PRO:O	3:N:1344:VAL:N	2.54	0.41
3:N:1276:GLU:HG3	3:N:1303:TYR:OH	2.20	0.41
1:B:72:LYS:HE2	1:B:131:THR:OG1	2.20	0.41
3:D:212:ARG:NH2	9:D:2090:HOH:O	2.54	0.41
3:N:568:ARG:O	3:N:569:ASN:C	2.59	0.41
2:M:176:VAL:HB	9:M:1185:HOH:O	2.20	0.41
3:D:1258:ARG:HH21	3:D:1351:GLU:CG	2.34	0.41
3:D:1106:VAL:HG21	3:D:1474:ALA:HB2	2.02	0.41
5:P:370:LYS:HB3	5:P:370:LYS:NZ	2.36	0.41
2:C:1098:ASP:OD1	2:C:1098:ASP:C	2.58	0.41
5:F:85:LEU:HD22	5:F:193:ARG:HD3	2.02	0.41
2:M:930:LYS:HA	9:M:1237:HOH:O	2.20	0.41
3:N:1311:LEU:HD12	3:N:1313:VAL:O	2.19	0.41
1:B:67:THR:HB	1:B:74:ASP:OD1	2.20	0.41
5:P:171:LYS:HG3	5:P:175:HIS:NE2	2.35	0.41
3:D:1353:GLN:HE21	3:D:1353:GLN:HB3	1.49	0.41
5:P:140:ARG:O	5:P:144:ILE:HG13	2.21	0.41
3:N:535:PHE:N	9:P:6169:HOH:O	2.52	0.41
2:C:70:GLU:O	2:C:97:ARG:HG3	2.20	0.41
3:N:1299:PHE:HD2	9:N:9049:HOH:O	2.03	0.41
2:C:569:VAL:HG23	2:C:635:THR:HG22	2.02	0.41
2:C:874:LEU:O	3:D:1029:ARG:HD2	2.20	0.41
2:C:882:LEU:HD12	3:D:1038:LEU:HD22	2.03	0.41
2:C:78:PHE:CB	2:C:88:LEU:HD21	2.50	0.41
2:M:1007:ALA:HB2	3:N:648:MET:CE	2.50	0.41
3:N:1489:GLN:HB3	9:N:9105:HOH:O	2.20	0.41
3:N:882:PHE:CE1	3:N:906:GLN:HG3	2.56	0.41
2:M:803:THR:N	9:M:1993:HOH:O	2.53	0.41
3:N:1462:LEU:CD2	3:N:1473:PRO:HD2	2.51	0.41
4:O:72:ARG:NH2	9:O:5523:HOH:O	2.54	0.41
2:C:861:LEU:HD23	2:C:862:PRO:N	2.35	0.41
2:C:640:ARG:CB	2:C:642:ARG:HH12	2.33	0.41
5:F:253:ASP:HA	5:F:259:ARG:NH1	2.35	0.41
2:M:352:ALA:C	2:M:355:VAL:HG12	2.41	0.41
1:A:101:LEU:HB2	1:A:114:PHE:CD2	2.56	0.41
3:N:852:ALA:HB1	3:N:857:ILE:HB	2.03	0.41
3:N:219:GLU:CB	9:N:9640:HOH:O	2.69	0.41
4:O:8:LYS:NZ	9:O:6477:HOH:O	2.52	0.41
2:C:189:ARG:HD2	9:C:1870:HOH:O	2.19	0.41
3:D:1303:TYR:HD1	3:D:1325:LEU:HD22	1.85	0.41
2:M:59:LYS:HD2	9:M:1438:HOH:O	2.19	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:2:LEU:HD12	1:L:3:ASP:H	1.84	0.41
2:M:305:PRO:CB	2:M:308:ARG:HH21	2.33	0.41
3:N:178:LEU:HA	3:N:181:ASP:OD2	2.21	0.41
3:N:570:GLU:OE2	5:P:214:GLN:HG3	2.21	0.41
5:P:218:GLN:HB3	9:P:6496:HOH:O	2.19	0.41
3:D:83:SER:HA	9:D:9087:HOH:O	2.20	0.41
3:N:1195:GLN:HG3	9:N:2044:HOH:O	2.21	0.41
2:C:66:LEU:CD2	2:C:372:LEU:HD23	2.41	0.41
2:C:1083:GLU:O	2:C:1087:VAL:HB	2.21	0.41
2:M:897:LEU:CD2	2:M:920:GLN:HE21	2.27	0.41
3:D:1491:THR:O	3:D:1491:THR:HG22	2.21	0.41
3:N:448:GLU:HG2	9:N:9364:HOH:O	2.19	0.41
5:F:163:LEU:HD13	5:F:174:LEU:HD21	2.03	0.41
1:K:88:ARG:HB3	9:K:4125:HOH:O	2.19	0.41
4:O:26:ARG:CZ	4:O:73:LEU:HD21	2.50	0.41
5:F:256:ARG:NH2	5:F:310:ILE:O	2.53	0.41
2:M:713:ARG:HB2	9:M:1832:HOH:O	2.19	0.41
9:C:1126:HOH:O	3:D:943:THR:HG21	2.20	0.41
2:C:831:ARG:HA	9:C:1793:HOH:O	2.20	0.41
3:D:629:SER:CA	9:D:9834:HOH:O	2.68	0.41
1:K:215:VAL:HG12	1:L:222:LEU:HD22	2.03	0.41
2:C:280:LYS:HG2	9:C:1148:HOH:O	2.21	0.41
3:D:982:PHE:CD1	3:D:982:PHE:N	2.88	0.41
2:C:811:PRO:HD2	2:C:813:VAL:HG13	2.02	0.41
2:M:30:LEU:HD12	2:M:30:LEU:O	2.20	0.41
2:M:999:HIS:HD2	9:M:1959:HOH:O	2.03	0.41
3:N:60:CYS:HB2	9:N:9577:HOH:O	2.21	0.41
1:L:56:VAL:HG13	9:L:3859:HOH:O	2.20	0.41
3:N:1004:THR:HG21	9:N:9020:HOH:O	2.21	0.41
3:N:601:ARG:HG2	3:N:606:ILE:HD13	2.01	0.41
4:E:51:LEU:HB3	9:E:196:HOH:O	2.20	0.41
5:P:278:LEU:O	5:P:282:LEU:HD12	2.21	0.41
5:F:423:ASP:HB2	9:F:809:HOH:O	2.20	0.41
3:N:39:PRO:HD2	9:N:9418:HOH:O	2.19	0.41
2:C:8:ARG:HH11	2:C:10:ARG:HH21	1.67	0.41
2:M:1044:GLY:N	3:N:762:GLN:OE1	2.53	0.41
3:D:501:ALA:HB1	3:D:1453:ALA:CB	2.51	0.41
3:N:1328:GLY:HA3	9:N:9396:HOH:O	2.20	0.41
1:A:151:VAL:HB	1:A:169:ALA:HB3	2.02	0.41
3:N:893:GLU:O	3:N:896:ALA:HB3	2.21	0.41
2:M:200:LEU:HD13	2:M:300:ASP:OD2	2.19	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:164:PRO:HG2	9:M:1133:HOH:O	2.21	0.41
2:M:264:PRO:HD2	9:M:1477:HOH:O	2.19	0.41
2:C:708:TYR:N	2:C:708:TYR:CD1	2.87	0.41
3:N:89:ARG:O	3:N:521:PRO:HG3	2.20	0.41
2:M:626:ARG:CB	2:M:626:ARG:HH11	2.34	0.41
3:D:1231:GLU:HG2	3:D:1232:PRO:N	2.35	0.41
3:D:465:LEU:CD1	3:D:513:ILE:HD11	2.51	0.41
3:D:115:LEU:HD22	3:D:502:PHE:HE1	1.86	0.41
3:N:566:ILE:CG1	5:P:217:ASN:HD22	2.34	0.41
3:D:1124:GLN:HA	3:D:1125:PRO:HD3	1.72	0.41
2:M:139:GLN:HB3	2:M:334:ARG:HD3	2.03	0.41
2:M:578:VAL:HG22	2:M:671:ASN:HD21	1.86	0.41
2:C:438:ILE:HD11	2:C:467:ILE:HD12	2.02	0.41
2:C:437:ARG:C	2:C:438:ILE:HD12	2.42	0.41
5:F:123:ASP:H	5:F:126:LEU:HD22	1.85	0.41
5:F:117:SER:CB	5:F:124:PRO:HG3	2.51	0.41
3:D:661:MET:HE1	3:D:677:LEU:CD1	2.37	0.41
2:M:537:LYS:CB	2:M:545:ASN:HD21	2.33	0.41
2:M:9:ILE:HG12	2:M:907:ASP:OD2	2.21	0.41
2:M:565:GLN:HG2	2:M:995:MET:HE1	2.02	0.41
2:C:1094:ALA:HB1	3:D:603:LEU:HD13	2.02	0.41
3:N:116:LEU:HB3	3:N:118:LEU:HG	2.03	0.41
3:N:44:LEU:HB3	3:N:525:ARG:NH2	2.36	0.41
1:B:81:ASN:O	1:B:84:GLU:HB3	2.20	0.41
2:C:1036:GLU:HG2	3:D:703:ASN:OD1	2.20	0.41
5:F:385:GLU:HA	9:F:553:HOH:O	2.21	0.41
3:N:1290:LEU:HD23	3:N:1291:SER:N	2.22	0.41
3:D:179:VAL:HG13	3:D:389:GLU:HG3	2.03	0.41
2:C:943:VAL:HG11	2:C:973:VAL:CG2	2.51	0.41
2:M:943:VAL:HG11	2:M:973:VAL:CG2	2.51	0.41
3:N:133:ILE:HD12	3:N:454:ALA:HB1	2.02	0.41
2:M:771:GLU:O	2:M:775:ARG:HG2	2.21	0.41
3:D:1380:GLU:HB2	3:D:1420:LEU:HD23	2.03	0.41
2:C:1109:VAL:HG23	3:D:3:LYS:CG	2.43	0.41
2:C:186:VAL:HG23	2:C:187:ASN:N	2.27	0.41
2:M:83:CYS:SG	2:M:88:LEU:HD23	2.61	0.41
3:N:482:LYS:HG2	9:N:9544:HOH:O	2.21	0.41
1:A:127:LEU:HD11	1:A:129:ILE:HD13	2.03	0.41
3:D:122:GLU:O	3:D:126:VAL:HG23	2.21	0.41
2:C:474:VAL:HG13	2:C:530:GLU:O	2.21	0.41
4:E:54:LEU:HG	4:E:58:PRO:HD2	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:676:MET:HG3	9:N:9565:HOH:O	2.20	0.41
2:M:1008:ARG:NH1	2:M:1020:PRO:HB3	2.35	0.41
9:M:1261:HOH:O	3:N:1079:LYS:HG3	2.21	0.41
4:O:72:ARG:HG2	4:O:72:ARG:HH11	1.85	0.41
2:C:854:PRO:C	2:C:856:GLU:N	2.74	0.41
3:N:1398:TRP:HZ3	3:N:1401:GLU:OE2	2.04	0.41
2:C:586:ARG:HG2	9:C:1254:HOH:O	2.21	0.41
3:D:824:ASN:HD22	3:D:824:ASN:HA	1.63	0.41
5:F:291:ILE:HG23	5:F:292:ALA:N	2.36	0.41
2:C:769:PRO:HG3	9:F:775:HOH:O	2.20	0.41
3:N:129:PHE:HB3	3:N:587:ARG:NH2	2.36	0.41
2:C:212:GLY:O	2:C:215:GLY:O	2.38	0.41
3:D:838:ARG:HE	3:D:838:ARG:HB2	1.62	0.41
2:C:267:TYR:HB2	2:C:272:ALA:HB1	2.03	0.41
3:N:462:GLN:CB	3:N:513:ILE:HD13	2.51	0.41
3:N:462:GLN:CG	3:N:513:ILE:HD13	2.50	0.41
2:C:834:GLN:HE21	2:C:834:GLN:HB2	1.66	0.41
3:D:517:VAL:N	9:D:9427:HOH:O	2.53	0.41
2:M:400:PRO:O	2:M:401:LEU:C	2.59	0.41
3:N:1425:THR:CG2	3:N:1426:LYS:N	2.83	0.41
3:N:93:ILE:HD13	3:N:548:ILE:HD11	2.03	0.41
3:N:1237:THR:HG22	3:N:1238:MET:N	2.35	0.41
2:C:607:ASP:HB3	2:C:609:ASN:H	1.84	0.41
3:D:844:ALA:O	3:D:867:ARG:HD2	2.20	0.41
3:N:780:LYS:HD2	9:N:9812:HOH:O	2.20	0.41
3:N:1278:ASP:HA	3:N:1319:VAL:O	2.21	0.41
2:M:816:LYS:O	2:M:819:VAL:HB	2.21	0.41
1:K:37:GLY:HA3	1:K:179:PHE:CD1	2.56	0.41
1:L:2:LEU:HD13	1:L:3:ASP:CG	2.40	0.41
3:D:159:ARG:NH1	3:D:159:ARG:HB2	2.35	0.41
3:N:924:MET:N	4:O:7:ASP:OD2	2.54	0.41
2:M:1075:ASP:OD1	3:N:753:SER:HB2	2.21	0.41
3:D:74:GLU:HB3	9:D:9568:HOH:O	2.21	0.41
3:N:989:TYR:CZ	3:N:993:LEU:HD11	2.55	0.41
1:B:164:ALA:HB3	9:B:393:HOH:O	2.21	0.41
3:N:1263:PHE:CE2	3:N:1371:VAL:HG11	2.56	0.41
2:M:441:VAL:O	2:M:559:LEU:HD12	2.20	0.41
3:N:924:MET:HB2	4:O:7:ASP:OD1	2.21	0.41
3:D:989:TYR:CE2	3:D:993:LEU:HD11	2.55	0.41
3:N:1012:GLU:HG3	9:N:9072:HOH:O	2.21	0.41
2:C:1045:ALA:HB1	2:C:1048:THR:HB	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1503:VAL:HA	9:D:2114:HOH:O	2.21	0.41
5:P:79:ASP:HB3	5:P:80:PRO:HD2	2.03	0.41
3:N:572:ARG:HH11	5:P:80:PRO:HD3	1.83	0.41
1:K:98:THR:N	9:K:3519:HOH:O	2.54	0.41
3:N:177:ALA:HB1	3:N:199:LEU:HD22	2.03	0.41
3:N:214:GLU:HB3	9:N:9687:HOH:O	2.21	0.41
2:M:141:HIS:O	2:M:332:ARG:N	2.40	0.41
2:C:328:LEU:C	2:C:330:ASN:H	2.24	0.41
5:F:123:ASP:HB3	5:F:125:ASP:OD1	2.21	0.41
3:D:658:LEU:O	3:D:661:MET:HB2	2.21	0.41
2:C:777:ILE:HG22	2:C:778:PHE:CD1	2.56	0.41
3:N:1112:CYS:HB2	3:N:1195:GLN:NE2	2.36	0.41
2:M:546:LEU:HA	2:M:581:THR:OG1	2.20	0.41
2:M:571:LEU:CD2	2:M:669:GLY:HA2	2.50	0.41
2:M:571:LEU:HD12	2:M:701:THR:N	2.36	0.41
2:C:302:VAL:C	2:C:305:PRO:HD2	2.42	0.41
3:D:1326:THR:CA	9:D:9040:HOH:O	2.69	0.41
2:C:1067:TYR:CE2	5:F:345:ALA:HB2	2.56	0.41
3:D:1167:SER:O	3:D:1171:VAL:HG23	2.21	0.41
3:D:1045:MET:O	3:D:1053:PHE:HD1	2.03	0.41
1:L:143:ARG:HH11	1:L:158:ILE:CG2	2.32	0.41
1:B:13:VAL:HG12	1:B:14:ARG:N	2.35	0.41
3:D:1420:LEU:HD13	3:D:1421:LEU:N	2.36	0.41
3:N:1066:THR:HG22	3:N:1069:GLU:CG	2.50	0.41
2:C:269:LEU:HD11	9:C:1386:HOH:O	2.19	0.41
3:N:430:ASP:HB2	3:N:432:TYR:CZ	2.56	0.41
3:D:126:VAL:O	3:D:132:TYR:CD1	2.73	0.41
2:C:515:ALA:C	2:C:516:ARG:HG2	2.42	0.41
3:D:696:HIS:HB3	9:D:9044:HOH:O	2.21	0.41
3:N:1465:ASN:OD1	3:N:1473:PRO:HG3	2.21	0.41
2:C:358:ARG:HH12	2:C:374:ASN:CB	2.34	0.41
3:D:93:ILE:HG22	3:D:551:ASN:ND2	2.36	0.41
1:A:76:VAL:HA	1:A:79:ILE:CG1	2.50	0.41
2:M:1101:THR:HB	3:N:5:VAL:HG13	2.01	0.41
3:D:47:GLU:OE1	3:D:53:ILE:HG22	2.21	0.41
3:D:95:LEU:CD2	3:D:574:LEU:HD11	2.51	0.41
3:N:881:LEU:HD21	3:N:941:PHE:CZ	2.56	0.41
3:N:827:ILE:HG23	3:N:837:GLY:CA	2.51	0.41
3:N:196:VAL:HG13	3:N:202:VAL:HG11	2.02	0.41
3:N:408:GLU:H	3:N:408:GLU:HG3	1.59	0.41
3:D:1483:PHE:CD1	3:D:1483:PHE:N	2.87	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:321:GLU:HG3	9:M:1256:HOH:O	2.22	0.41
2:M:1065:ALA:HB3	2:M:1077:PRO:HG2	2.02	0.41
2:M:544:THR:O	2:M:547:ILE:HG13	2.20	0.41
1:A:42:ARG:HG2	1:A:42:ARG:NH1	2.35	0.40
2:M:144:PRO:HA	2:M:163:ILE:HD11	2.02	0.40
2:C:793:PRO:O	2:C:794:PRO:C	2.60	0.40
2:C:193:LEU:HD23	2:C:307:LEU:CD1	2.51	0.40
3:D:55:ASP:HA	3:D:82:LYS:CG	2.45	0.40
2:C:504:GLU:HG2	2:C:507:ARG:HB2	2.02	0.40
3:N:470:LEU:HD11	3:N:509:PRO:HG3	2.04	0.40
3:N:87:ARG:CB	3:N:523:ASP:HB2	2.51	0.40
2:M:897:LEU:CD1	2:M:921:ALA:HA	2.51	0.40
3:D:1197:ARG:CG	3:D:1198:TYR:H	2.35	0.40
3:N:1209:LEU:HD23	3:N:1210:SER:N	2.29	0.40
1:K:94:LEU:HD21	1:K:119:ASP:HB2	2.03	0.40
2:C:671:ASN:ND2	2:C:671:ASN:H	2.16	0.40
3:N:1301:LYS:HD2	3:N:1301:LYS:HA	1.79	0.40
5:F:79:ASP:HB3	5:F:80:PRO:HD3	2.04	0.40
2:M:253:ALA:N	9:M:2036:HOH:O	2.51	0.40
2:M:676:ILE:HG22	2:M:988:VAL:HG22	2.03	0.40
2:C:603:VAL:O	2:C:646:GLY:HA2	2.21	0.40
3:D:68:PHE:HA	3:D:71:LYS:NZ	2.36	0.40
3:D:1061:PHE:CE1	3:D:1065:LEU:HD23	2.53	0.40
1:A:206:THR:HG23	1:A:209:GLU:H	1.84	0.40
3:D:475:LYS:HG3	9:D:9720:HOH:O	2.21	0.40
1:B:59:GLU:HG3	1:B:139:ASN:ND2	2.35	0.40
2:C:669:GLY:C	2:C:670:GLN:HG2	2.41	0.40
3:D:764:LEU:HG	3:D:765:SER:N	2.36	0.40
3:D:786:ILE:HD13	3:D:908:LYS:HB3	2.02	0.40
2:M:462:ASP:HB3	2:M:468:ARG:CD	2.47	0.40
3:D:584:ASN:HB3	9:D:9910:HOH:O	2.20	0.40
3:D:28:LYS:HD2	3:D:552:ASN:HD21	1.86	0.40
5:P:225:GLU:OE1	5:P:226:LYS:HE2	2.21	0.40
3:D:17:LYS:HA	9:D:9899:HOH:O	2.21	0.40
2:M:352:ALA:CA	2:M:355:VAL:HG12	2.50	0.40
3:N:1000:THR:HB	9:N:9990:HOH:O	2.20	0.40
2:C:863:ASP:OD1	2:C:865:THR:HG22	2.22	0.40
2:M:564:MET:SD	2:M:846:LYS:HD2	2.60	0.40
5:F:119:ILE:HA	9:F:584:HOH:O	2.20	0.40
3:N:742:GLY:HA3	9:N:9339:HOH:O	2.20	0.40
2:M:430:VAL:HG13	2:M:430:VAL:O	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:174:GLY:HA3	9:D:9151:HOH:O	2.21	0.40
1:K:34:VAL:HB	1:L:42:ARG:HH21	1.85	0.40
2:M:305:PRO:HB3	2:M:308:ARG:NH2	2.36	0.40
3:N:27:GLU:O	3:N:28:LYS:HD3	2.21	0.40
5:F:109:GLY:O	5:F:113:ILE:HG13	2.21	0.40
3:D:601:ARG:NH1	5:F:328:PHE:CD1	2.89	0.40
5:P:366:ALA:HB3	5:P:367:MET:CE	2.49	0.40
2:C:1093:GLN:HB3	3:D:21:TRP:CZ3	2.56	0.40
2:C:1085:PHE:HE1	2:C:1111:ILE:HG21	1.86	0.40
2:M:682:TYR:HB3	2:M:689:VAL:HG22	2.02	0.40
2:C:47:ALA:O	2:C:50:GLU:HB3	2.21	0.40
2:C:244:PRO:HD2	2:C:245:GLY:N	2.24	0.40
2:M:1060:ILE:HG22	2:M:1061:GLU:N	2.36	0.40
3:N:950:GLY:C	3:N:953:ASP:H	2.22	0.40
3:D:1147:ARG:HD2	3:D:1188:VAL:CG2	2.51	0.40
3:D:1420:LEU:HD13	3:D:1421:LEU:H	1.85	0.40
2:C:691:SER:HB3	2:C:868:ASP:HA	2.04	0.40
3:D:860:LEU:HD22	3:D:878:GLY:HA2	2.02	0.40
1:K:23:PHE:CD1	1:K:211:LEU:HD23	2.57	0.40
3:D:1306:PRO:HG3	9:D:9022:HOH:O	2.20	0.40
5:F:273:ARG:O	5:F:276:ARG:HB2	2.21	0.40
3:D:177:ALA:HB1	3:D:199:LEU:HB3	2.04	0.40
2:C:707:ARG:HD2	9:C:1247:HOH:O	2.20	0.40
1:A:117:VAL:HB	1:A:120:VAL:CG1	2.50	0.40
2:M:51:THR:HB	2:M:348:LEU:HD23	2.03	0.40
1:K:91:ASN:CG	1:K:92:PRO:HD2	2.42	0.40
1:B:10:VAL:HG11	9:B:492:HOH:O	2.20	0.40
3:D:799:LYS:N	3:D:826:PRO:HG2	2.35	0.40
3:D:814:ALA:HB3	9:D:9257:HOH:O	2.21	0.40
2:C:8:ARG:HB3	9:C:2005:HOH:O	2.20	0.40
2:C:8:ARG:N	9:C:1239:HOH:O	2.55	0.40
2:C:169:GLY:HA3	9:C:1751:HOH:O	2.20	0.40
2:C:243:ARG:HB3	9:C:1299:HOH:O	2.22	0.40
5:P:235:PHE:HB2	9:P:4703:HOH:O	2.21	0.40
2:M:196:LEU:HD22	2:M:303:PHE:CD2	2.55	0.40
3:N:168:THR:OG1	3:N:393:ILE:HB	2.22	0.40
3:N:213:VAL:HG22	3:N:214:GLU:H	1.86	0.40
3:D:112:ILE:HG12	3:D:128:TYR:OH	2.21	0.40
3:N:427:VAL:HB	3:N:435:VAL:HG23	2.04	0.40
2:M:433:THR:HA	9:M:1375:HOH:O	2.21	0.40
3:N:90:MET:HE3	3:N:518:PRO:HB3	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:601:ARG:CD	3:D:606:ILE:HD13	2.52	0.40
3:N:37:LEU:HD23	9:N:9522:HOH:O	2.22	0.40
1:L:41:ARG:HD3	9:L:3689:HOH:O	2.20	0.40
3:N:551:ASN:O	3:N:554:LEU:HB3	2.21	0.40
3:D:1057:VAL:HG23	9:D:9034:HOH:O	2.21	0.40
3:D:704:ARG:HA	3:D:704:ARG:HD2	1.90	0.40
2:M:811:PRO:HD3	9:M:1239:HOH:O	2.22	0.40
2:M:720:GLU:HG2	2:M:760:SER:HB3	2.03	0.40
1:K:198:ARG:HD3	1:K:200:TRP:CH2	2.54	0.40
3:N:847:ASP:HA	3:N:850:LEU:CD1	2.50	0.40
3:N:1155:VAL:CG1	3:N:1177:ALA:HB1	2.51	0.40
3:D:491:LYS:HB2	9:D:2025:HOH:O	2.21	0.40
1:K:206:THR:HG22	1:K:209:GLU:OE1	2.22	0.40
3:D:996:TRP:HB2	3:D:1044:LEU:HD11	2.02	0.40
1:A:69:PRO:O	1:A:71:VAL:HG23	2.21	0.40
2:M:1092:LEU:HD21	3:N:1447:LEU:HD21	2.04	0.40
2:M:92:ALA:HA	2:M:93:PRO:HD3	1.95	0.40
3:D:36:THR:HA	9:D:9305:HOH:O	2.21	0.40
3:D:1123:PHE:CZ	3:D:1178:ALA:HB1	2.57	0.40
2:M:596:TYR:HB2	9:M:1449:HOH:O	2.22	0.40
9:N:2191:HOH:O	5:P:225:GLU:HB2	2.21	0.40
2:C:663:ASN:HB3	9:C:1567:HOH:O	2.21	0.40
3:D:984:THR:HG22	3:D:987:GLU:OE2	2.21	0.40
3:N:1282:ARG:CZ	3:N:1282:ARG:HB3	2.52	0.40
1:L:31:GLY:HA3	9:L:4517:HOH:O	2.20	0.40
3:N:782:SER:O	3:N:786:ILE:HG13	2.22	0.40
5:F:279:GLN:NE2	9:F:586:HOH:O	2.53	0.40
2:C:34:VAL:HG22	9:C:1963:HOH:O	2.22	0.40
3:N:411:THR:HG23	3:N:429:SER:OG	2.21	0.40
5:P:234:LYS:H	5:P:234:LYS:HG3	1.64	0.40
3:D:1254:GLN:OE1	3:D:1254:GLN:HA	2.21	0.40
1:A:81:ASN:HA	9:A:321:HOH:O	2.20	0.40
3:N:992:ILE:O	3:N:995:LEU:HB3	2.21	0.40
3:D:138:LYS:HG2	9:D:9491:HOH:O	2.21	0.40
2:M:212:GLY:O	2:M:215:GLY:O	2.39	0.40
1:K:42:ARG:HG2	1:K:42:ARG:HH11	1.87	0.40
2:M:313:LEU:HD23	2:M:314:THR:HG23	2.03	0.40
2:C:136:ILE:HG12	2:C:392:SER:OG	2.20	0.40
2:C:397:GLU:H	2:C:633:GLN:CD	2.25	0.40
1:A:184:THR:O	1:A:192:LEU:HG	2.21	0.40
3:N:553:ARG:HD2	3:N:570:GLU:CD	2.42	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:487:THR:HG22	2:M:488:ALA:N	2.37	0.40
3:D:521:PRO:HA	3:D:522:PRO:HD3	1.84	0.40
2:C:327:HIS:O	2:C:330:ASN:HB2	2.22	0.40
5:F:217:ASN:O	5:F:221:ILE:HG13	2.21	0.40
3:N:796:ARG:HD3	3:N:861:GLN:HB2	2.02	0.40
3:D:1273:VAL:O	3:D:1273:VAL:HG23	2.22	0.40
1:B:111:ALA:HB3	1:B:124:ASN:O	2.21	0.40
9:C:1791:HOH:O	3:D:13:ALA:N	2.53	0.40
5:F:408:LEU:HD13	5:F:411:HIS:HE1	1.86	0.40
2:M:26:TYR:HD2	2:M:121:MET:HB2	1.87	0.40
3:N:1475:GLY:O	3:N:1478:SER:HB3	2.21	0.40
3:N:754:PHE:CG	4:O:24:ALA:HB1	2.56	0.40
3:D:131:LYS:CG	3:D:568:ARG:HG2	2.52	0.40
3:D:1139:ASP:OD1	3:D:1357:ARG:NE	2.54	0.40
3:D:570:GLU:HG2	9:D:9564:HOH:O	2.21	0.40
4:E:61:GLU:OE2	4:E:62:THR:N	2.54	0.40
2:M:78:PHE:HB3	2:M:79:PRO:HD2	2.03	0.40
2:M:372:LEU:HD22	9:M:1901:HOH:O	2.21	0.40
3:N:867:ARG:NH1	9:N:9385:HOH:O	2.47	0.40
3:N:1470:ARG:NE	9:N:9305:HOH:O	2.54	0.40
3:N:1472:ILE:HA	3:N:1473:PRO:HD3	1.85	0.40
5:F:266:GLU:O	5:F:270:LYS:HG2	2.21	0.40
3:D:178:LEU:CG	3:D:200:ASP:H	2.31	0.40
3:N:1123:PHE:CD1	3:N:1134:LEU:HA	2.56	0.40
1:K:114:PHE:HE2	1:K:142:VAL:HG13	1.87	0.40
2:M:601:GLY:HA2	2:M:616:GLU:CD	2.42	0.40
3:D:170:PRO:HG3	9:D:9689:HOH:O	2.20	0.40
1:B:92:PRO:HA	1:B:146:ARG:CZ	2.51	0.40
3:N:1319:VAL:HG23	3:N:1319:VAL:O	2.21	0.40
2:M:1081:VAL:HG22	9:M:1596:HOH:O	2.21	0.40
3:D:501:ALA:HB1	3:D:1453:ALA:HA	2.03	0.40
2:M:544:THR:HA	2:M:562:SER:OG	2.21	0.40
2:M:53:PRO:HG2	9:M:1765:HOH:O	2.21	0.40
1:B:1:MET:HE2	9:B:365:HOH:O	2.20	0.40
1:B:95:GLN:HB2	1:B:95:GLN:HE21	1.63	0.40
5:F:325:LYS:HA	9:F:599:HOH:O	2.21	0.40
2:M:304:LEU:O	2:M:308:ARG:HB2	2.21	0.40
1:A:191:ASP:O	1:A:191:ASP:CG	2.60	0.40
1:A:29:GLU:O	1:A:193:ASP:OD1	2.40	0.40
3:D:26:VAL:HG23	9:D:9002:HOH:O	2.22	0.40
3:D:522:PRO:HA	3:D:525:ARG:NH1	2.36	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:219:ARG:NH2	1:L:223:THR:HG22	2.17	0.40
2:C:976:ASP:HB2	2:C:979:THR:HG22	2.02	0.40
3:N:983:LEU:N	9:N:2283:HOH:O	2.53	0.40
2:C:282:GLY:HA3	9:C:1198:HOH:O	2.21	0.40
3:D:601:ARG:NE	3:D:606:ILE:HD13	2.37	0.40
5:F:418:LEU:N	5:F:418:LEU:HD12	2.36	0.40
3:D:148:GLU:HG2	3:D:151:GLN:HB2	2.02	0.40
1:L:89:PHE:CZ	1:L:146:ARG:HB3	2.56	0.40
1:L:103:ALA:O	1:L:138:LEU:HD23	2.21	0.40
1:K:18:ARG:HG3	1:K:123:MET:CE	2.51	0.40
3:D:699:VAL:HB	3:D:716:PHE:O	2.22	0.40
2:C:639:GLN:HA	2:C:657:ASP:O	2.22	0.40
2:M:553:ASP:O	3:N:1070:TYR:CE2	2.74	0.40
2:M:760:SER:O	2:M:785:VAL:HG22	2.21	0.40
2:M:620:LEU:HD22	2:M:620:LEU:H	1.85	0.40
3:N:540:LEU:HG	3:N:544:TYR:CE2	2.57	0.40
2:C:520:GLU:HA	2:C:521:PRO:HD3	1.93	0.40
2:M:517:ARG:HD2	2:M:517:ARG:N	2.36	0.40
2:C:376:ARG:HG3	9:C:2017:HOH:O	2.21	0.40
1:K:68:ILE:HA	1:K:69:PRO:HD3	1.95	0.40
3:D:178:LEU:HD12	3:D:200:ASP:HB2	2.03	0.40
5:P:77:THR:O	5:P:81:VAL:HG23	2.22	0.40
3:D:1293:PHE:HD2	9:D:2310:HOH:O	2.05	0.40
2:M:195:LEU:CD1	2:M:234:ALA:HB1	2.50	0.40
1:K:184:THR:HG23	1:K:192:LEU:CB	2.52	0.40
5:P:287:THR:C	5:P:289:GLU:N	2.74	0.40
3:D:1480:PHE:O	3:D:1480:PHE:CD1	2.75	0.40
3:N:1280:VAL:O	3:N:1294:VAL:HA	2.21	0.40
5:F:148:LYS:HG2	9:F:557:HOH:O	2.21	0.40
5:P:294:ALA:HA	9:P:5719:HOH:O	2.20	0.40
2:M:201:GLY:HA2	9:M:1944:HOH:O	2.20	0.40
3:D:1156:LEU:CD1	3:D:1176:LYS:HD2	2.52	0.40
3:N:885:ILE:HG13	9:N:9120:HOH:O	2.20	0.40
4:O:81:PRO:HB3	9:O:3838:HOH:O	2.22	0.40
2:M:214:TYR:HB2	9:M:1137:HOH:O	2.20	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 X-ray entries followed by that with respect to entries of similar resolution.

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	227/315 (72%)	201 (88%)	21 (9%)	5 (2%)	8	9
1	B	227/315 (72%)	200 (88%)	21 (9%)	6 (3%)	7	6
1	K	227/315 (72%)	200 (88%)	24 (11%)	3 (1%)	15	21
1	L	227/315 (72%)	204 (90%)	19 (8%)	4 (2%)	11	13
2	C	1117/1119 (100%)	924 (83%)	143 (13%)	50 (4%)	3	2
2	M	1117/1119 (100%)	920 (82%)	149 (13%)	48 (4%)	3	2
3	D	1375/1524 (90%)	1129 (82%)	186 (14%)	60 (4%)	3	2
3	N	1375/1524 (90%)	1129 (82%)	181 (13%)	65 (5%)	3	2
4	E	93/99 (94%)	73 (78%)	16 (17%)	4 (4%)	3	2
4	O	93/99 (94%)	73 (78%)	16 (17%)	4 (4%)	3	2
5	F	341/423 (81%)	288 (84%)	42 (12%)	11 (3%)	5	4
5	P	341/423 (81%)	291 (85%)	37 (11%)	13 (4%)	4	3
All	All	6760/7590 (89%)	5632 (83%)	855 (13%)	273 (4%)	4	3

All (273) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	29	GLU
1	B	29	GLU
1	B	48	ILE
2	C	152	PRO
2	C	178	PRO
2	C	231	PRO
2	C	244	PRO
2	C	288	ARG
2	C	369	PRO
2	C	442	GLU
2	C	447	ALA
2	C	462	ASP

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Mol	Chain	Res	Type
2	C	465	GLY
2	C	548	PRO
2	C	908	GLY
3	D	40	GLU
3	D	43	GLY
3	D	55	ASP
3	D	82	LYS
3	D	137	PRO
3	D	208	PRO
3	D	209	ARG
3	D	238	PRO
3	D	246	PRO
3	D	370	ALA
3	D	373	PRO
3	D	385	VAL
3	D	440	VAL
3	D	705	ALA
3	D	832	ARG
3	D	844	ALA
3	D	1028	ALA
3	D	1066	THR
3	D	1129	THR
3	D	1208	ASP
3	D	1236	LEU
3	D	1441	GLN
4	E	42	PRO
4	E	58	PRO
5	F	147	LEU
5	F	153	PRO
5	F	390	PHE
1	K	29	GLU
1	L	29	GLU
2	M	152	PRO
2	M	178	PRO
2	M	231	PRO
2	M	244	PRO
2	M	288	ARG
2	M	290	LEU
2	M	369	PRO
2	M	442	GLU
2	M	447	ALA
2	M	462	ASP

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Mol	Chain	Res	Type
2	M	465	GLY
2	M	548	PRO
2	M	864	GLY
2	M	908	GLY
2	M	1106	ASP
3	N	40	GLU
3	N	43	GLY
3	N	55	ASP
3	N	137	PRO
3	N	208	PRO
3	N	209	ARG
3	N	238	PRO
3	N	246	PRO
3	N	370	ALA
3	N	373	PRO
3	N	385	VAL
3	N	440	VAL
3	N	832	ARG
3	N	844	ALA
3	N	1028	ALA
3	N	1125	PRO
3	N	1129	THR
3	N	1208	ASP
3	N	1441	GLN
4	O	42	PRO
4	O	58	PRO
5	P	147	LEU
5	P	153	PRO
5	P	390	PHE
1	A	187	GLY
1	B	187	GLY
2	C	59	LYS
2	C	156	GLY
2	C	164	PRO
2	C	261	ILE
2	C	290	LEU
2	C	400	PRO
2	C	413	LEU
2	C	425	PHE
2	C	448	ASN
2	C	626	ARG
2	C	627	ARG

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Mol	Chain	Res	Type
2	C	680	ASP
2	C	864	GLY
2	C	1106	ASP
3	D	31	THR
3	D	98	PRO
3	D	231	VAL
3	D	381	ALA
3	D	417	PRO
3	D	504	ASP
3	D	594	PRO
3	D	609	GLY
3	D	803	GLY
3	D	822	ALA
3	D	1213	ARG
4	E	53	GLY
5	F	324	GLU
5	F	325	LYS
5	F	341	PRO
1	K	187	GLY
1	L	187	GLY
2	M	59	LYS
2	M	156	GLY
2	M	413	LEU
2	M	425	PHE
2	M	626	ARG
2	M	680	ASP
3	N	31	THR
3	N	96	ALA
3	N	231	VAL
3	N	381	ALA
3	N	417	PRO
3	N	504	ASP
3	N	594	PRO
3	N	609	GLY
3	N	705	ALA
3	N	766	ALA
3	N	803	GLY
3	N	822	ALA
3	N	1066	THR
3	N	1213	ARG
3	N	1236	LEU
4	O	53	GLY

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Mol	Chain	Res	Type
5	P	288	TYR
5	P	324	GLU
5	P	325	LYS
5	P	341	PRO
2	C	74	GLY
2	C	144	PRO
2	C	170	PRO
2	C	363	SER
2	C	517	ARG
2	C	727	PRO
2	C	781	LYS
2	C	1004	LYS
3	D	37	LEU
3	D	96	ALA
3	D	170	PRO
3	D	424	GLY
3	D	782	SER
3	D	1286	THR
5	F	286	PRO
5	F	288	TYR
5	F	420	ASP
2	M	74	GLY
2	M	164	PRO
2	M	251	ASP
2	M	261	ILE
2	M	282	GLY
2	M	363	SER
2	M	448	ASN
2	M	517	ARG
2	M	627	ARG
2	M	727	PRO
2	M	781	LYS
3	N	37	LEU
3	N	82	LYS
3	N	98	PRO
3	N	170	PRO
3	N	424	GLY
3	N	782	SER
3	N	1286	THR
3	N	1342	GLU
3	N	1385	GLY
5	P	286	PRO

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Mol	Chain	Res	Type
1	A	106	PRO
2	C	180	GLY
2	C	251	ASP
2	C	457	ALA
2	C	598	GLU
2	C	1097	LEU
3	D	120	ALA
3	D	387	LEU
3	D	415	VAL
3	D	416	ALA
3	D	451	ASP
3	D	522	PRO
3	D	530	VAL
3	D	766	ALA
3	D	808	THR
3	D	1385	GLY
3	D	1432	LYS
1	K	106	PRO
1	L	106	PRO
2	M	170	PRO
2	M	180	GLY
2	M	223	ASP
2	M	457	ALA
3	N	120	ALA
3	N	415	VAL
3	N	416	ALA
3	N	522	PRO
3	N	533	GLY
3	N	808	THR
5	P	232	ARG
5	P	416	ARG
1	A	188	GLN
1	B	106	PRO
1	B	188	GLN
2	C	1059	ASP
2	C	1079	PRO
3	D	69	GLU
5	F	167	PRO
2	M	529	VAL
2	M	1079	PRO
3	N	387	LEU
3	N	526	PRO

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Mol	Chain	Res	Type
3	N	530	VAL
3	N	1389	LEU
3	N	1432	LYS
5	P	420	ASP
2	C	415	PRO
2	C	434	HIS
2	C	529	VAL
2	M	40	GLU
2	M	453	THR
2	M	1059	ASP
2	M	1097	LEU
3	N	110	SER
3	N	136	ASP
3	N	173	PRO
3	N	1064	GLY
3	N	1341	PRO
3	N	1349	VAL
5	P	167	PRO
1	A	9	PRO
2	C	282	GLY
2	C	779	GLY
3	D	136	ASP
3	D	526	PRO
3	D	1267	ARG
2	M	779	GLY
2	C	79	PRO
3	D	368	VAL
3	D	509	PRO
3	D	1306	PRO
5	F	297	PRO
2	M	400	PRO
3	N	368	VAL
3	N	1306	PRO
1	B	9	PRO
3	D	521	PRO
4	E	5	GLY
2	M	415	PRO
4	O	5	GLY
5	P	297	PRO
2	C	53	PRO
3	D	173	PRO
3	D	670	VAL

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Mol	Chain	Res	Type
2	M	79	PRO
2	M	317	VAL
2	M	444	PRO
3	N	509	PRO
3	N	1413	THR
2	C	377	PRO
2	C	767	PRO
1	L	9	PRO
3	N	169	TYR

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	202/273 (74%)	154 (76%)	48 (24%)	1	1
1	B	202/273 (74%)	162 (80%)	40 (20%)	1	2
1	K	202/273 (74%)	165 (82%)	37 (18%)	2	2
1	L	202/273 (74%)	156 (77%)	46 (23%)	1	1
2	C	941/941 (100%)	720 (76%)	221 (24%)	1	1
2	M	941/941 (100%)	722 (77%)	219 (23%)	1	1
3	D	1118/1279 (87%)	848 (76%)	270 (24%)	1	1
3	N	1118/1279 (87%)	860 (77%)	258 (23%)	1	1
4	E	83/87 (95%)	65 (78%)	18 (22%)	1	1
4	O	83/87 (95%)	67 (81%)	16 (19%)	2	2
5	F	295/370 (80%)	237 (80%)	58 (20%)	1	2
5	P	295/370 (80%)	245 (83%)	50 (17%)	2	3
All	All	5682/6446 (88%)	4401 (78%)	1281 (22%)	1	1

All (1281) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	1	MET

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Mol	Chain	Res	Type
1	A	5	LYS
1	A	9	PRO
1	A	12	THR
1	A	15	THR
1	A	16	GLN
1	A	20	TYR
1	A	26	GLU
1	A	44	LEU
1	A	45	LEU
1	A	47	SER
1	A	60	ASP
1	A	73	GLU
1	A	74	ASP
1	A	89	PHE
1	A	92	PRO
1	A	94	LEU
1	A	96	THR
1	A	100	LEU
1	A	101	LEU
1	A	104	GLU
1	A	113	ASP
1	A	120	VAL
1	A	126	ASP
1	A	127	LEU
1	A	137	ARG
1	A	138	LEU
1	A	139	ASN
1	A	142	VAL
1	A	143	ARG
1	A	145	ASP
1	A	156	HIS
1	A	163	ASN
1	A	167	VAL
1	A	170	VAL
1	A	179	PHE
1	A	180	GLN
1	A	184	THR
1	A	188	GLN
1	A	191	ASP
1	A	196	THR
1	A	197	LEU
1	A	198	ARG

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Mol	Chain	Res	Type
1	A	205	VAL
1	A	211	LEU
1	A	216	GLU
1	A	227	ASN
1	A	229	GLN
1	B	1	MET
1	B	25	LEU
1	B	26	GLU
1	B	30	ARG
1	B	38	ASN
1	B	60	ASP
1	B	62	LEU
1	B	65	PHE
1	B	68	ILE
1	B	73	GLU
1	B	77	GLU
1	B	81	ASN
1	B	88	ARG
1	B	89	PHE
1	B	92	PRO
1	B	94	LEU
1	B	95	GLN
1	B	96	THR
1	B	99	LEU
1	B	101	LEU
1	B	112	ARG
1	B	113	ASP
1	B	124	ASN
1	B	126	ASP
1	B	138	LEU
1	B	140	MET
1	B	141	GLU
1	B	159	LYS
1	B	162	ILE
1	B	176	ARG
1	B	185	ARG
1	B	193	ASP
1	B	196	THR
1	B	200	TRP
1	B	201	THR
1	B	202	ASP
1	B	208	LEU

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Mol	Chain	Res	Type
1	B	209	GLU
1	B	221	HIS
1	B	224	TYR
2	C	5	ARG
2	C	10	ARG
2	C	15	LEU
2	C	20	GLU
2	C	22	GLN
2	C	26	TYR
2	C	27	ARG
2	C	30	LEU
2	C	31	GLN
2	C	34	VAL
2	C	41	ASN
2	C	48	PHE
2	C	49	ARG
2	C	52	PHE
2	C	71	TYR
2	C	73	LEU
2	C	79	PRO
2	C	81	ASP
2	C	89	THR
2	C	95	TYR
2	C	98	LEU
2	C	100	LEU
2	C	104	ASP
2	C	108	ILE
2	C	110	GLU
2	C	114	PHE
2	C	115	LEU
2	C	133	ASP
2	C	140	ILE
2	C	141	HIS
2	C	152	PRO
2	C	157	ARG
2	C	158	TYR
2	C	163	ILE
2	C	168	ARG
2	C	177	GLU
2	C	178	PRO
2	C	194	VAL
2	C	196	LEU

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Mol	Chain	Res	Type
2	C	205	GLU
2	C	209	ARG
2	C	216	GLU
2	C	218	VAL
2	C	221	LEU
2	C	229	MET
2	C	235	LEU
2	C	237	ARG
2	C	238	LEU
2	C	243	ARG
2	C	250	ARG
2	C	252	LYS
2	C	254	VAL
2	C	257	VAL
2	C	267	TYR
2	C	268	ASP
2	C	275	TYR
2	C	279	GLU
2	C	281	LEU
2	C	285	LEU
2	C	288	ARG
2	C	289	THR
2	C	290	LEU
2	C	293	PHE
2	C	297	GLU
2	C	301	GLU
2	C	303	PHE
2	C	304	LEU
2	C	309	TYR
2	C	321	GLU
2	C	327	HIS
2	C	331	ARG
2	C	339	LEU
2	C	343	GLN
2	C	350	ARG
2	C	359	MET
2	C	360	LEU
2	C	365	ASP
2	C	367	LEU
2	C	379	GLU
2	C	384	GLU
2	C	387	SER

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Mol	Chain	Res	Type
2	C	388	ARG
2	C	392	SER
2	C	393	GLN
2	C	396	ASP
2	C	399	ASN
2	C	400	PRO
2	C	402	SER
2	C	408	ARG
2	C	415	PRO
2	C	418	LEU
2	C	419	THR
2	C	420	ARG
2	C	421	GLU
2	C	422	ARG
2	C	425	PHE
2	C	428	ARG
2	C	432	ARG
2	C	442	GLU
2	C	443	THR
2	C	445	GLU
2	C	452	ILE
2	C	455	LEU
2	C	469	THR
2	C	473	ARG
2	C	474	VAL
2	C	479	VAL
2	C	482	GLU
2	C	487	THR
2	C	492	ASP
2	C	500	ASN
2	C	503	LEU
2	C	504	GLU
2	C	524	VAL
2	C	530	GLU
2	C	533	ASP
2	C	543	ASN
2	C	556	ASN
2	C	559	LEU
2	C	564	MET
2	C	566	THR
2	C	584	GLU
2	C	605	LYS

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Mol	Chain	Res	Type
2	C	606	VAL
2	C	607	ASP
2	C	620	LEU
2	C	622	GLU
2	C	633	GLN
2	C	637	LEU
2	C	640	ARG
2	C	645	VAL
2	C	650	ARG
2	C	668	LEU
2	C	671	ASN
2	C	672	VAL
2	C	673	LEU
2	C	679	PHE
2	C	690	ILE
2	C	691	SER
2	C	693	GLU
2	C	697	ARG
2	C	698	ASP
2	C	699	PHE
2	C	701	THR
2	C	702	SER
2	C	715	THR
2	C	716	LYS
2	C	722	ILE
2	C	723	THR
2	C	725	ASP
2	C	727	PRO
2	C	730	SER
2	C	737	LEU
2	C	740	GLU
2	C	744	ARG
2	C	760	SER
2	C	768	THR
2	C	780	GLU
2	C	785	VAL
2	C	799	ILE
2	C	804	VAL
2	C	808	ARG
2	C	821	GLU
2	C	829	GLN
2	C	834	GLN

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Mol	Chain	Res	Type
2	C	839	LEU
2	C	841	ASN
2	C	858	MET
2	C	863	ASP
2	C	870	ILE
2	C	878	SER
2	C	879	ARG
2	C	881	ASN
2	C	882	LEU
2	C	900	ARG
2	C	904	PRO
2	C	905	ILE
2	C	923	GLU
2	C	925	TYR
2	C	934	PHE
2	C	937	ASP
2	C	939	ARG
2	C	945	ARG
2	C	950	LEU
2	C	953	VAL
2	C	958	THR
2	C	960	GLU
2	C	962	GLN
2	C	975	TYR
2	C	978	ARG
2	C	981	GLU
2	C	982	PRO
2	C	984	GLU
2	C	995	MET
2	C	997	LEU
2	C	999	HIS
2	C	1000	MET
2	C	1002	GLU
2	C	1008	ARG
2	C	1016	ILE
2	C	1017	THR
2	C	1018	GLN
2	C	1019	GLN
2	C	1020	PRO
2	C	1021	LEU
2	C	1034	GLU
2	C	1040	LEU

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Mol	Chain	Res	Type
2	C	1052	MET
2	C	1054	THR
2	C	1058	ASP
2	C	1076	VAL
2	C	1079	PRO
2	C	1083	GLU
2	C	1088	LEU
2	C	1091	GLU
2	C	1092	LEU
2	C	1095	LEU
2	C	1098	ASP
2	C	1104	GLU
2	C	1106	ASP
2	C	1113	GLU
3	D	3	LYS
3	D	6	ARG
3	D	9	ARG
3	D	12	LEU
3	D	14	SER
3	D	25	GLU
3	D	27	GLU
3	D	32	ILE
3	D	33	ASN
3	D	34	TYR
3	D	35	ARG
3	D	41	ARG
3	D	42	ASP
3	D	48	ARG
3	D	56	TYR
3	D	69	GLU
3	D	71	LYS
3	D	80	VAL
3	D	82	LYS
3	D	84	ILE
3	D	85	VAL
3	D	86	ARG
3	D	103	TRP
3	D	107	ASP
3	D	112	ILE
3	D	117	ASP
3	D	118	LEU
3	D	127	LEU

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Mol	Chain	Res	Type
3	D	133	ILE
3	D	145	VAL
3	D	147	VAL
3	D	152	LEU
3	D	153	LEU
3	D	155	ASP
3	D	156	GLU
3	D	162	ARG
3	D	166	GLN
3	D	170	PRO
3	D	171	LEU
3	D	185	VAL
3	D	199	LEU
3	D	205	TYR
3	D	206	ARG
3	D	208	PRO
3	D	209	ARG
3	D	210	ARG
3	D	389	GLU
3	D	394	LEU
3	D	395	VAL
3	D	406	ASP
3	D	411	THR
3	D	413	ASP
3	D	430	ASP
3	D	432	TYR
3	D	441	ARG
3	D	444	VAL
3	D	445	ARG
3	D	447	VAL
3	D	450	TYR
3	D	452	ILE
3	D	456	MET
3	D	465	LEU
3	D	475	LYS
3	D	481	MET
3	D	483	HIS
3	D	486	ARG
3	D	503	LEU
3	D	505	SER
3	D	507	ASN
3	D	521	PRO

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Mol	Chain	Res	Type
3	D	528	VAL
3	D	529	GLN
3	D	540	LEU
3	D	542	ASP
3	D	549	ASN
3	D	554	LEU
3	D	565	ILE
3	D	569	ASN
3	D	573	MET
3	D	590	PRO
3	D	594	PRO
3	D	596	SER
3	D	597	ASP
3	D	598	ARG
3	D	605	ASP
3	D	608	SER
3	D	614	PHE
3	D	617	ASN
3	D	624	ASP
3	D	628	ARG
3	D	636	GLN
3	D	639	LEU
3	D	641	GLN
3	D	651	GLU
3	D	659	LYS
3	D	666	ILE
3	D	675	ARG
3	D	676	MET
3	D	679	ARG
3	D	682	ASP
3	D	685	ASP
3	D	688	TRP
3	D	695	ILE
3	D	702	LEU
3	D	704	ARG
3	D	709	HIS
3	D	710	ARG
3	D	713	ILE
3	D	716	PHE
3	D	717	GLN
3	D	720	LEU
3	D	724	GLN

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Mol	Chain	Res	Type
3	D	734	GLU
3	D	752	SER
3	D	754	PHE
3	D	762	GLN
3	D	764	LEU
3	D	767	HIS
3	D	784	ASP
3	D	794	GLN
3	D	797	LYS
3	D	799	LYS
3	D	800	LYS
3	D	804	LEU
3	D	805	GLU
3	D	813	LEU
3	D	824	ASN
3	D	828	LYS
3	D	829	VAL
3	D	833	GLU
3	D	838	ARG
3	D	839	LEU
3	D	847	ASP
3	D	858	VAL
3	D	859	ASP
3	D	862	ASP
3	D	863	VAL
3	D	864	VAL
3	D	865	THR
3	D	867	ARG
3	D	869	MET
3	D	875	THR
3	D	879	ARG
3	D	880	ILE
3	D	888	GLU
3	D	893	GLU
3	D	898	GLU
3	D	901	GLN
3	D	904	VAL
3	D	910	SER
3	D	916	TYR
3	D	922	LEU
3	D	927	THR
3	D	929	ARG

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Mol	Chain	Res	Type
3	D	944	THR
3	D	951	ILE
3	D	952	ASP
3	D	962	GLN
3	D	972	LEU
3	D	973	GLN
3	D	982	PHE
3	D	985	ASP
3	D	987	GLU
3	D	988	ARG
3	D	999	THR
3	D	1001	GLU
3	D	1026	SER
3	D	1032	PRO
3	D	1033	GLN
3	D	1042	ARG
3	D	1045	MET
3	D	1049	SER
3	D	1051	GLU
3	D	1058	ARG
3	D	1060	SER
3	D	1062	ARG
3	D	1065	LEU
3	D	1068	LEU
3	D	1074	SER
3	D	1084	THR
3	D	1086	LEU
3	D	1095	THR
3	D	1096	ARG
3	D	1109	GLU
3	D	1112	CYS
3	D	1127	GLU
3	D	1129	THR
3	D	1130	ARG
3	D	1131	SER
3	D	1133	ARG
3	D	1135	ARG
3	D	1151	ARG
3	D	1152	GLU
3	D	1160	LEU
3	D	1161	GLU
3	D	1162	GLU

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Mol	Chain	Res	Type
3	D	1164	ARG
3	D	1166	LEU
3	D	1167	SER
3	D	1173	LEU
3	D	1176	LYS
3	D	1182	GLU
3	D	1183	ILE
3	D	1191	PRO
3	D	1195	GLN
3	D	1196	THR
3	D	1197	ARG
3	D	1207	TYR
3	D	1213	ARG
3	D	1219	GLU
3	D	1238	MET
3	D	1239	ARG
3	D	1253	THR
3	D	1260	ILE
3	D	1264	GLU
3	D	1267	ARG
3	D	1269	LYS
3	D	1280	VAL
3	D	1285	GLU
3	D	1290	LEU
3	D	1295	GLU
3	D	1299	PHE
3	D	1306	PRO
3	D	1307	LYS
3	D	1310	ARG
3	D	1314	LYS
3	D	1318	TYR
3	D	1323	GLN
3	D	1325	LEU
3	D	1337	GLU
3	D	1344	VAL
3	D	1345	GLU
3	D	1346	ARG
3	D	1348	LEU
3	D	1350	GLU
3	D	1353	GLN
3	D	1359	GLN
3	D	1363	LEU

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Mol	Chain	Res	Type
3	D	1365	ASP
3	D	1374	GLN
3	D	1382	THR
3	D	1383	ASP
3	D	1386	ASP
3	D	1387	SER
3	D	1389	LEU
3	D	1401	GLU
3	D	1403	LEU
3	D	1407	LEU
3	D	1410	GLU
3	D	1415	VAL
3	D	1419	PRO
3	D	1420	LEU
3	D	1421	LEU
3	D	1424	VAL
3	D	1432	LYS
3	D	1433	SER
3	D	1435	LEU
3	D	1439	SER
3	D	1440	PHE
3	D	1455	LYS
3	D	1460	ILE
3	D	1462	LEU
3	D	1480	PHE
3	D	1481	VAL
3	D	1483	PHE
3	D	1485	GLN
3	D	1487	VAL
3	D	1488	ASP
3	D	1496	GLU
3	D	1501	GLU
4	E	7	ASP
4	E	14	ASP
4	E	15	SER
4	E	28	GLN
4	E	29	GLN
4	E	31	LEU
4	E	32	ARG
4	E	40	LEU
4	E	42	PRO
4	E	45	ARG

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Mol	Chain	Res	Type
4	E	57	ASP
4	E	59	ASN
4	E	61	GLU
4	E	67	GLU
4	E	75	PHE
4	E	81	PRO
4	E	84	ARG
4	E	89	MET
5	F	83	GLN
5	F	84	TYR
5	F	87	GLU
5	F	90	GLN
5	F	91	VAL
5	F	115	LYS
5	F	117	SER
5	F	125	ASP
5	F	126	LEU
5	F	135	ILE
5	F	136	LEU
5	F	142	ARG
5	F	149	GLU
5	F	150	THR
5	F	164	LYS
5	F	172	ARG
5	F	174	LEU
5	F	181	GLU
5	F	187	LEU
5	F	192	LEU
5	F	194	LEU
5	F	209	PHE
5	F	212	LEU
5	F	220	LEU
5	F	225	GLU
5	F	233	PHE
5	F	240	THR
5	F	245	GLN
5	F	249	ARG
5	F	266	GLU
5	F	269	ASN
5	F	281	GLU
5	F	282	LEU
5	F	285	GLU

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Mol	Chain	Res	Type
5	F	295	MET
5	F	297	PRO
5	F	302	LYS
5	F	306	GLU
5	F	316	SER
5	F	317	LEU
5	F	319	THR
5	F	324	GLU
5	F	328	PHE
5	F	337	HIS
5	F	340	SER
5	F	341	PRO
5	F	343	ASP
5	F	349	LEU
5	F	353	GLU
5	F	362	SER
5	F	370	LYS
5	F	393	THR
5	F	398	ARG
5	F	399	GLN
5	F	403	LYS
5	F	410	TYR
5	F	419	ARG
5	F	420	ASP
1	K	1	MET
1	K	9	PRO
1	K	18	ARG
1	K	25	LEU
1	K	44	LEU
1	K	45	LEU
1	K	55	SER
1	K	62	LEU
1	K	73	GLU
1	K	80	LEU
1	K	89	PHE
1	K	92	PRO
1	K	95	GLN
1	K	101	LEU
1	K	112	ARG
1	K	113	ASP
1	K	115	LEU
1	K	121	GLU

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Mol	Chain	Res	Type
1	K	127	LEU
1	K	131	THR
1	K	138	LEU
1	K	161	ARG
1	K	167	VAL
1	K	176	ARG
1	K	184	THR
1	K	189	ARG
1	K	190	THR
1	K	193	ASP
1	K	196	THR
1	K	198	ARG
1	K	206	THR
1	K	211	LEU
1	K	215	VAL
1	K	222	LEU
1	K	223	THR
1	K	227	ASN
1	K	229	GLN
1	L	1	MET
1	L	2	LEU
1	L	5	LYS
1	L	7	LYS
1	L	9	PRO
1	L	20	TYR
1	L	25	LEU
1	L	29	GLU
1	L	38	ASN
1	L	47	SER
1	L	62	LEU
1	L	65	PHE
1	L	73	GLU
1	L	77	GLU
1	L	81	ASN
1	L	89	PHE
1	L	94	LEU
1	L	95	GLN
1	L	101	LEU
1	L	104	GLU
1	L	110	LYS
1	L	113	ASP
1	L	124	ASN

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Mol	Chain	Res	Type
1	L	128	HIS
1	L	134	GLU
1	L	138	LEU
1	L	141	GLU
1	L	146	ARG
1	L	159	LYS
1	L	161	ARG
1	L	162	ILE
1	L	172	SER
1	L	176	ARG
1	L	177	VAL
1	L	180	GLN
1	L	181	VAL
1	L	182	GLU
1	L	184	THR
1	L	197	LEU
1	L	200	TRP
1	L	201	THR
1	L	206	THR
1	L	212	ASN
1	L	213	GLN
1	L	216	GLU
1	L	227	ASN
2	M	3	ILE
2	M	9	ILE
2	M	10	ARG
2	M	26	TYR
2	M	30	LEU
2	M	31	GLN
2	M	34	VAL
2	M	39	ARG
2	M	48	PHE
2	M	49	ARG
2	M	51	THR
2	M	71	TYR
2	M	77	PRO
2	M	81	ASP
2	M	82	GLU
2	M	91	GLN
2	M	95	TYR
2	M	98	LEU
2	M	100	LEU

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Mol	Chain	Res	Type
2	M	102	HIS
2	M	104	ASP
2	M	105	THR
2	M	107	LEU
2	M	111	ASP
2	M	114	PHE
2	M	115	LEU
2	M	140	ILE
2	M	141	HIS
2	M	143	SER
2	M	150	PRO
2	M	158	TYR
2	M	163	ILE
2	M	175	GLU
2	M	178	PRO
2	M	184	MET
2	M	198	ARG
2	M	203	ASP
2	M	205	GLU
2	M	221	LEU
2	M	222	MET
2	M	223	ASP
2	M	229	MET
2	M	230	ARG
2	M	233	GLU
2	M	235	LEU
2	M	237	ARG
2	M	238	LEU
2	M	239	PHE
2	M	241	LEU
2	M	242	LEU
2	M	243	ARG
2	M	246	ASP
2	M	252	LYS
2	M	254	VAL
2	M	257	VAL
2	M	260	LEU
2	M	266	ARG
2	M	267	TYR
2	M	268	ASP
2	M	276	LYS
2	M	281	LEU

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Mol	Chain	Res	Type
2	M	285	LEU
2	M	290	LEU
2	M	293	PHE
2	M	295	ASP
2	M	297	GLU
2	M	303	PHE
2	M	304	LEU
2	M	309	TYR
2	M	313	LEU
2	M	321	GLU
2	M	322	VAL
2	M	328	LEU
2	M	339	LEU
2	M	359	MET
2	M	360	LEU
2	M	365	ASP
2	M	366	SER
2	M	367	LEU
2	M	371	LYS
2	M	376	ARG
2	M	379	GLU
2	M	383	ARG
2	M	387	SER
2	M	393	GLN
2	M	394	PHE
2	M	396	ASP
2	M	397	GLU
2	M	399	ASN
2	M	400	PRO
2	M	402	SER
2	M	419	THR
2	M	420	ARG
2	M	421	GLU
2	M	425	PHE
2	M	432	ARG
2	M	443	THR
2	M	445	GLU
2	M	455	LEU
2	M	460	ARG
2	M	462	ASP
2	M	468	ARG
2	M	472	ARG

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Mol	Chain	Res	Type
2	M	480	THR
2	M	481	ASP
2	M	482	GLU
2	M	486	MET
2	M	496	ILE
2	M	500	ASN
2	M	502	PRO
2	M	503	LEU
2	M	507	ARG
2	M	511	GLU
2	M	517	ARG
2	M	524	VAL
2	M	527	GLU
2	M	528	GLU
2	M	533	ASP
2	M	542	VAL
2	M	543	ASN
2	M	544	THR
2	M	545	ASN
2	M	548	PRO
2	M	554	ASP
2	M	562	SER
2	M	563	ASN
2	M	564	MET
2	M	565	GLN
2	M	571	LEU
2	M	579	VAL
2	M	586	ARG
2	M	588	VAL
2	M	589	ARG
2	M	599	GLU
2	M	600	ASP
2	M	607	ASP
2	M	617	ASP
2	M	620	LEU
2	M	626	ARG
2	M	633	GLN
2	M	635	THR
2	M	637	LEU
2	M	639	GLN
2	M	640	ARG
2	M	645	VAL

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Mol	Chain	Res	Type
2	M	648	ARG
2	M	654	LEU
2	M	657	ASP
2	M	659	PRO
2	M	663	ASN
2	M	668	LEU
2	M	676	ILE
2	M	677	MET
2	M	686	ASP
2	M	697	ARG
2	M	699	PHE
2	M	701	THR
2	M	713	ARG
2	M	714	ASP
2	M	715	THR
2	M	717	LEU
2	M	727	PRO
2	M	729	LEU
2	M	737	LEU
2	M	744	ARG
2	M	748	GLU
2	M	749	VAL
2	M	750	LYS
2	M	775	ARG
2	M	785	VAL
2	M	790	LEU
2	M	799	ILE
2	M	808	ARG
2	M	821	GLU
2	M	829	GLN
2	M	839	LEU
2	M	841	ASN
2	M	860	HIS
2	M	862	PRO
2	M	865	THR
2	M	870	ILE
2	M	879	ARG
2	M	881	ASN
2	M	886	LEU
2	M	890	LEU
2	M	900	ARG
2	M	905	ILE

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Mol	Chain	Res	Type
2	M	907	ASP
2	M	911	GLU
2	M	925	TYR
2	M	928	LYS
2	M	937	ASP
2	M	940	GLU
2	M	950	LEU
2	M	976	ASP
2	M	978	ARG
2	M	981	GLU
2	M	984	GLU
2	M	988	VAL
2	M	1000	MET
2	M	1002	GLU
2	M	1004	LYS
2	M	1006	HIS
2	M	1008	ARG
2	M	1009	SER
2	M	1016	ILE
2	M	1017	THR
2	M	1035	MET
2	M	1052	MET
2	M	1054	THR
2	M	1074	GLU
2	M	1079	PRO
2	M	1080	SER
2	M	1088	LEU
2	M	1091	GLU
2	M	1092	LEU
2	M	1097	LEU
2	M	1098	ASP
2	M	1100	GLN
3	N	3	LYS
3	N	7	LYS
3	N	12	LEU
3	N	14	SER
3	N	15	PRO
3	N	27	GLU
3	N	28	LYS
3	N	31	THR
3	N	33	ASN
3	N	34	TYR

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Mol	Chain	Res	Type
3	N	41	ARG
3	N	52	PRO
3	N	55	ASP
3	N	56	TYR
3	N	68	PHE
3	N	71	LYS
3	N	76	CYS
3	N	82	LYS
3	N	85	VAL
3	N	86	ARG
3	N	87	ARG
3	N	95	LEU
3	N	97	THR
3	N	101	HIS
3	N	103	TRP
3	N	107	ASP
3	N	108	VAL
3	N	111	LYS
3	N	112	ILE
3	N	123	LEU
3	N	128	TYR
3	N	131	LYS
3	N	133	ILE
3	N	142	LEU
3	N	145	VAL
3	N	147	VAL
3	N	153	LEU
3	N	162	ARG
3	N	165	LYS
3	N	166	GLN
3	N	169	TYR
3	N	170	PRO
3	N	171	LEU
3	N	172	PRO
3	N	176	ASP
3	N	185	VAL
3	N	199	LEU
3	N	204	LEU
3	N	205	TYR
3	N	206	ARG
3	N	208	PRO
3	N	389	GLU

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Mol	Chain	Res	Type
3	N	394	LEU
3	N	405	ASP
3	N	408	GLU
3	N	411	THR
3	N	413	ASP
3	N	417	PRO
3	N	419	ASP
3	N	421	LEU
3	N	430	ASP
3	N	432	TYR
3	N	441	ARG
3	N	444	VAL
3	N	445	ARG
3	N	447	VAL
3	N	450	TYR
3	N	452	ILE
3	N	453	ASP
3	N	455	ARG
3	N	456	MET
3	N	459	GLU
3	N	465	LEU
3	N	483	HIS
3	N	488	ARG
3	N	493	ARG
3	N	502	PHE
3	N	513	ILE
3	N	518	PRO
3	N	523	ASP
3	N	530	VAL
3	N	531	ASP
3	N	535	PHE
3	N	571	LYS
3	N	576	GLU
3	N	586	ARG
3	N	590	PRO
3	N	593	ASN
3	N	594	PRO
3	N	598	ARG
3	N	600	LEU
3	N	601	ARG
3	N	602	SER
3	N	613	ARG

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Mol	Chain	Res	Type
3	N	614	PHE
3	N	617	ASN
3	N	624	ASP
3	N	625	TYR
3	N	628	ARG
3	N	636	GLN
3	N	639	LEU
3	N	641	GLN
3	N	652	LEU
3	N	664	LYS
3	N	666	ILE
3	N	676	MET
3	N	681	ARG
3	N	684	LYS
3	N	688	TRP
3	N	692	GLU
3	N	695	ILE
3	N	701	LEU
3	N	704	ARG
3	N	716	PHE
3	N	717	GLN
3	N	724	GLN
3	N	725	SER
3	N	732	VAL
3	N	736	PHE
3	N	739	ASP
3	N	749	VAL
3	N	754	PHE
3	N	770	LEU
3	N	781	PRO
3	N	783	ARG
3	N	787	LEU
3	N	792	ILE
3	N	794	GLN
3	N	796	ARG
3	N	797	LYS
3	N	799	LYS
3	N	800	LYS
3	N	805	GLU
3	N	823	LEU
3	N	824	ASN
3	N	828	LYS

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Mol	Chain	Res	Type
3	N	829	VAL
3	N	832	ARG
3	N	833	GLU
3	N	839	LEU
3	N	840	LYS
3	N	846	PRO
3	N	847	ASP
3	N	863	VAL
3	N	865	THR
3	N	875	THR
3	N	880	ILE
3	N	888	GLU
3	N	892	ASP
3	N	897	TRP
3	N	914	LEU
3	N	917	GLN
3	N	926	LYS
3	N	944	THR
3	N	951	ILE
3	N	959	GLU
3	N	970	LYS
3	N	984	THR
3	N	987	GLU
3	N	994	GLN
3	N	999	THR
3	N	1005	GLN
3	N	1019	PRO
3	N	1034	GLN
3	N	1039	CYS
3	N	1042	ARG
3	N	1045	MET
3	N	1051	GLU
3	N	1058	ARG
3	N	1060	SER
3	N	1062	ARG
3	N	1063	GLU
3	N	1065	LEU
3	N	1068	LEU
3	N	1074	SER
3	N	1084	THR
3	N	1086	LEU
3	N	1093	TYR

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Mol	Chain	Res	Type
3	N	1101	VAL
3	N	1104	GLU
3	N	1109	GLU
3	N	1111	ASP
3	N	1112	CYS
3	N	1114	THR
3	N	1119	SER
3	N	1127	GLU
3	N	1129	THR
3	N	1135	ARG
3	N	1151	ARG
3	N	1158	VAL
3	N	1161	GLU
3	N	1166	LEU
3	N	1176	LYS
3	N	1183	ILE
3	N	1184	GLN
3	N	1195	GLN
3	N	1197	ARG
3	N	1202	GLN
3	N	1207	TYR
3	N	1210	SER
3	N	1216	SER
3	N	1254	GLN
3	N	1262	LEU
3	N	1264	GLU
3	N	1267	ARG
3	N	1278	ASP
3	N	1280	VAL
3	N	1284	GLU
3	N	1285	GLU
3	N	1286	THR
3	N	1297	GLU
3	N	1299	PHE
3	N	1305	LEU
3	N	1307	LYS
3	N	1312	LEU
3	N	1314	LYS
3	N	1315	ASP
3	N	1325	LEU
3	N	1331	ASP
3	N	1337	GLU

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Mol	Chain	Res	Type
3	N	1346	ARG
3	N	1348	LEU
3	N	1353	GLN
3	N	1359	GLN
3	N	1363	LEU
3	N	1368	ILE
3	N	1372	VAL
3	N	1378	TYR
3	N	1380	GLU
3	N	1381	VAL
3	N	1382	THR
3	N	1387	SER
3	N	1390	LEU
3	N	1395	LEU
3	N	1396	GLU
3	N	1401	GLU
3	N	1403	LEU
3	N	1404	ASN
3	N	1415	VAL
3	N	1419	PRO
3	N	1424	VAL
3	N	1431	THR
3	N	1432	LYS
3	N	1433	SER
3	N	1435	LEU
3	N	1439	SER
3	N	1440	PHE
3	N	1442	ASN
3	N	1447	LEU
3	N	1452	ILE
3	N	1460	ILE
3	N	1463	LYS
3	N	1465	ASN
3	N	1466	VAL
3	N	1478	SER
3	N	1488	ASP
3	N	1499	ARG
3	N	1501	GLU
4	O	6	ILE
4	O	12	MET
4	O	15	SER
4	O	17	TYR

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Mol	Chain	Res	Type
4	O	29	GLN
4	O	32	ARG
4	O	45	ARG
4	O	47	LYS
4	O	48	MET
4	O	57	ASP
4	O	59	ASN
4	O	61	GLU
4	O	70	THR
4	O	84	ARG
4	O	85	LEU
4	O	86	GLN
5	P	77	THR
5	P	83	GLN
5	P	84	TYR
5	P	90	GLN
5	P	91	VAL
5	P	96	LEU
5	P	117	SER
5	P	125	ASP
5	P	135	ILE
5	P	136	LEU
5	P	142	ARG
5	P	143	HIS
5	P	144	ILE
5	P	145	PRO
5	P	150	THR
5	P	151	LEU
5	P	174	LEU
5	P	176	ILE
5	P	185	GLN
5	P	187	LEU
5	P	200	LYS
5	P	211	ASP
5	P	218	GLN
5	P	234	LYS
5	P	249	ARG
5	P	266	GLU
5	P	289	GLU
5	P	295	MET
5	P	306	GLU
5	P	313	GLU

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Mol	Chain	Res	Type
5	P	316	SER
5	P	318	GLU
5	P	328	PHE
5	P	335	ASP
5	P	336	GLU
5	P	341	PRO
5	P	342	VAL
5	P	347	GLN
5	P	349	LEU
5	P	350	LEU
5	P	353	GLU
5	P	363	GLU
5	P	370	LYS
5	P	392	VAL
5	P	393	THR
5	P	399	GLN
5	P	403	LYS
5	P	408	LEU
5	P	410	TYR
5	P	419	ARG

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (166) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	16	GLN
1	A	81	ASN
1	A	128	HIS
1	A	139	ASN
1	A	156	HIS
1	A	163	ASN
1	A	180	GLN
1	A	227	ASN
1	A	229	GLN
1	B	95	GLN
1	B	124	ASN
1	B	227	ASN
2	C	22	GLN
2	C	31	GLN
2	C	41	ASN
2	C	91	GLN
2	C	99	GLN
2	C	117	HIS

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Mol	Chain	Res	Type
2	C	204	GLN
2	C	343	GLN
2	C	374	ASN
2	C	393	GLN
2	C	431	HIS
2	C	448	ASN
2	C	500	ASN
2	C	506	ASN
2	C	538	GLN
2	C	563	ASN
2	C	565	GLN
2	C	633	GLN
2	C	639	GLN
2	C	663	ASN
2	C	728	HIS
2	C	834	GLN
2	C	841	ASN
2	C	881	ASN
2	C	884	GLN
2	C	889	HIS
2	C	899	GLN
2	C	1019	GLN
2	C	1047	HIS
2	C	1107	ASN
3	D	507	ASN
3	D	569	ASN
3	D	616	GLN
3	D	617	ASN
3	D	636	GLN
3	D	724	GLN
3	D	727	GLN
3	D	748	HIS
3	D	756	GLN
3	D	768	ASN
3	D	794	GLN
3	D	824	ASN
3	D	917	GLN
3	D	973	GLN
3	D	1018	ASN
3	D	1033	GLN
3	D	1046	GLN
3	D	1116	ASN

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Mol	Chain	Res	Type
3	D	1124	GLN
3	D	1184	GLN
3	D	1254	GLN
3	D	1359	GLN
3	D	1374	GLN
3	D	1465	ASN
3	D	1485	GLN
4	E	28	GLN
4	E	37	ASN
4	E	86	GLN
5	F	83	GLN
5	F	90	GLN
5	F	217	ASN
5	F	218	GLN
5	F	312	GLN
5	F	337	HIS
5	F	402	ASN
1	K	38	ASN
1	K	63	HIS
1	K	81	ASN
1	K	156	HIS
1	K	180	GLN
1	K	212	ASN
1	K	213	GLN
1	K	227	ASN
1	K	229	GLN
1	L	63	HIS
1	L	81	ASN
1	L	95	GLN
1	L	124	ASN
1	L	139	ASN
1	L	212	ASN
1	L	227	ASN
2	M	22	GLN
2	M	31	GLN
2	M	91	GLN
2	M	99	GLN
2	M	102	HIS
2	M	117	HIS
2	M	139	GLN
2	M	327	HIS
2	M	343	GLN

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Mol	Chain	Res	Type
2	M	374	ASN
2	M	393	GLN
2	M	431	HIS
2	M	545	ASN
2	M	565	GLN
2	M	567	GLN
2	M	609	ASN
2	M	632	ASN
2	M	633	GLN
2	M	639	GLN
2	M	663	ASN
2	M	834	GLN
2	M	841	ASN
2	M	860	HIS
2	M	881	ASN
2	M	889	HIS
2	M	920	GLN
2	M	969	GLN
2	M	1018	GLN
2	M	1019	GLN
2	M	1107	ASN
3	N	125	GLN
3	N	151	GLN
3	N	166	GLN
3	N	442	ASN
3	N	462	GLN
3	N	549	ASN
3	N	560	GLN
3	N	640	HIS
3	N	703	ASN
3	N	717	GLN
3	N	744	GLN
3	N	756	GLN
3	N	768	ASN
3	N	824	ASN
3	N	976	GLN
3	N	994	GLN
3	N	1005	GLN
3	N	1033	GLN
3	N	1034	GLN
3	N	1103	HIS
3	N	1172	HIS

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Mol	Chain	Res	Type
3	N	1184	GLN
3	N	1202	GLN
3	N	1323	GLN
3	N	1333	HIS
3	N	1334	GLN
3	N	1353	GLN
3	N	1374	GLN
3	N	1465	ASN
3	N	1485	GLN
4	O	28	GLN
4	O	33	HIS
4	O	59	ASN
4	O	78	ASN
4	O	86	GLN
5	P	83	GLN
5	P	90	GLN
5	P	170	HIS
5	P	185	GLN
5	P	217	ASN
5	P	245	GLN
5	P	312	GLN
5	P	337	HIS

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates ⓘ

There are no carbohydrates in this entry.

5.6 Ligand geometry ⓘ

Of 8 ligands modelled in this entry, 6 are monoatomic - leaving 2 for Mogul analysis.

In the following table, the Counts columns list the number of bonds (or angles) for which Mogul statistics could be retrieved, the number of bonds (or angles) that are observed in the model and

the number of bonds (or angles) that are defined in the chemical component dictionary. The Link column lists molecule types, if any, to which the group is linked. The Z score for a bond length (or angle) is the number of standard deviations the observed value is removed from the expected value. A bond length (or angle) with $|Z| > 2$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
6	STD	D	8001	-	43,47,47	7.92	25 (58%)	41,73,73	2.56	10 (24%)
6	STD	N	8002	-	43,47,47	8.00	25 (58%)	41,73,73	2.61	11 (26%)

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

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
6	STD	D	8001	-	-	0/31/101/101	0/2/5/5
6	STD	N	8002	-	-	2/31/101/101	0/2/5/5

All (50) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	D	8001	STD	O5-C19	-29.36	1.18	1.42
6	N	8002	STD	O5-C19	-28.41	1.18	1.42
6	N	8002	STD	C16-C17	-24.86	1.29	1.53
6	D	8001	STD	C16-C17	-23.37	1.31	1.53
6	N	8002	STD	C23-C21	-13.50	1.21	1.53
6	D	8001	STD	C23-C21	-13.43	1.22	1.53
6	D	8001	STD	C18-C16	-12.34	1.25	1.53
6	N	8002	STD	C18-C16	-12.10	1.25	1.53
6	N	8002	STD	C15-C12	-11.89	1.21	1.52
6	D	8001	STD	C15-C12	-11.56	1.22	1.52
6	N	8002	STD	C6-C5	-6.42	1.36	1.45
6	N	8002	STD	C7-C8	-5.05	1.34	1.45
6	D	8001	STD	C6-C5	-4.69	1.38	1.45
6	D	8001	STD	C7-C8	-4.09	1.36	1.45
6	D	8001	STD	C11-C8	2.06	1.55	1.50
6	N	8002	STD	C27-C25	2.24	1.57	1.51
6	N	8002	STD	C12-C4	2.33	1.60	1.50
6	D	8001	STD	C28-C32	2.35	1.54	1.50
6	N	8002	STD	O4-C25	2.49	1.50	1.44
6	N	8002	STD	C29-C19	2.54	1.55	1.51
6	D	8001	STD	C29-C19	2.64	1.55	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	D	8001	STD	C12-C4	2.86	1.62	1.50
6	D	8001	STD	O9-C31	3.03	1.52	1.44
6	N	8002	STD	C4-N1	3.15	1.50	1.45
6	N	8002	STD	O9-C31	3.15	1.53	1.44
6	D	8001	STD	O4-C4	3.44	1.46	1.42
6	D	8001	STD	C4-N1	4.11	1.51	1.45
6	D	8001	STD	C21-C22	4.21	1.60	1.52
6	D	8001	STD	C30-C32	4.59	1.40	1.32
6	N	8002	STD	C26-C25	4.77	1.62	1.52
6	D	8001	STD	O9-C28	4.85	1.51	1.43
6	N	8002	STD	C30-C32	4.86	1.40	1.32
6	N	8002	STD	O4-C4	4.93	1.48	1.42
6	D	8001	STD	C26-C25	5.23	1.63	1.52
6	N	8002	STD	C21-C22	5.45	1.62	1.52
6	N	8002	STD	O9-C28	5.78	1.52	1.43
6	N	8002	STD	C16-C13	6.38	1.67	1.53
6	D	8001	STD	C16-C13	6.54	1.67	1.53
6	D	8001	STD	C22-N2	7.05	1.42	1.33
6	N	8002	STD	C22-N2	7.24	1.43	1.33
6	N	8002	STD	C15-C26	7.34	1.62	1.52
6	D	8001	STD	C15-C26	7.49	1.62	1.52
6	N	8002	STD	C17-C30	9.00	1.64	1.49
6	N	8002	STD	O8-C17	9.48	1.52	1.44
6	D	8001	STD	O8-C17	9.59	1.52	1.44
6	D	8001	STD	C17-C30	9.98	1.66	1.49
6	N	8002	STD	O5-C13	10.34	1.61	1.44
6	D	8001	STD	O5-C13	10.75	1.62	1.44
6	D	8001	STD	O8-C19	12.04	1.53	1.42
6	N	8002	STD	O8-C19	12.75	1.53	1.42

All (21) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	D	8001	STD	C20-N1-C2	-7.17	103.15	112.31
6	N	8002	STD	C20-N1-C2	-7.04	103.32	112.31
6	D	8001	STD	O8-C17-C30	-6.56	105.06	111.69
6	N	8002	STD	O8-C17-C30	-6.38	105.26	111.69
6	D	8001	STD	O2-C2-N1	-4.54	118.39	125.99
6	N	8002	STD	O2-C2-N1	-4.44	118.56	125.99
6	D	8001	STD	O2-C2-C1	-3.35	122.49	130.33
6	N	8002	STD	O2-C2-C1	-3.13	123.01	130.33
6	N	8002	STD	C18-C16-C17	2.31	115.02	111.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	D	8001	STD	O5-C19-C29	2.38	107.47	105.65
6	N	8002	STD	C12-C15-C26	2.46	115.87	111.93
6	D	8001	STD	C12-C15-C26	2.87	116.53	111.93
6	N	8002	STD	C10-C13-C16	2.99	120.80	115.69
6	N	8002	STD	O5-C19-C29	3.05	107.99	105.65
6	N	8002	STD	C7-C6-C5	3.33	127.01	122.46
6	N	8002	STD	O4-C4-N1	3.64	109.64	105.72
6	D	8001	STD	O4-C4-N1	3.82	109.83	105.72
6	D	8001	STD	C7-C6-C5	3.89	127.77	122.46
6	D	8001	STD	C10-C13-C16	4.10	122.69	115.69
6	D	8001	STD	C19-O5-C13	7.61	121.29	112.94
6	N	8002	STD	C19-O5-C13	9.08	122.91	112.94

There are no chirality outliers.

All (2) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
6	N	8002	STD	C21-C22-N2-C24
6	N	8002	STD	O6-C22-N2-C24

There are no ring outliers.

2 monomers are involved in 10 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
6	D	8001	STD	4	0
6	N	8002	STD	6	0

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 Fit of model and data ⓘ

6.1 Protein, DNA and RNA chains ⓘ

In the following table, the column labelled ‘#RSRZ> 2’ contains the number (and percentage) of RSRZ outliers, followed by percent RSRZ outliers for the chain as percentile scores relative to all X-ray entries and entries of similar resolution. The OWAB column contains the minimum, median, 95th percentile and maximum values of the occupancy-weighted average B-factor per residue. The column labelled ‘Q< 0.9’ lists the number of (and percentage) of residues with an average occupancy less than 0.9.

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
1	A	229/315 (72%)	2.40	70 (30%) 1 1	31, 63, 90, 117	0
1	B	229/315 (72%)	2.83	76 (33%) 0 1	53, 90, 112, 118	0
1	K	229/315 (72%)	1.63	62 (27%) 1 1	33, 62, 87, 122	0
1	L	229/315 (72%)	3.27	88 (38%) 0 0	50, 87, 110, 125	0
2	C	1119/1119 (100%)	3.32	446 (39%) 0 0	25, 78, 104, 116	0
2	M	1119/1119 (100%)	2.97	407 (36%) 0 0	23, 72, 104, 115	0
3	D	1381/1524 (90%)	1.95	376 (27%) 1 1	27, 67, 107, 119	0
3	N	1381/1524 (90%)	1.97	386 (27%) 1 1	27, 68, 108, 120	0
4	E	95/99 (95%)	1.99	29 (30%) 1 1	44, 81, 108, 128	0
4	O	95/99 (95%)	2.07	33 (34%) 0 0	44, 75, 93, 105	0
5	F	345/423 (81%)	3.70	149 (43%) 0 0	55, 84, 107, 122	0
5	P	345/423 (81%)	3.21	130 (37%) 0 0	62, 84, 108, 116	0
All	All	6796/7590 (89%)	2.58	2252 (33%) 0 1	23, 73, 106, 128	0

All (2252) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
3	N	405	ASP	73.9
3	N	406	ASP	59.6
1	A	1	MET	56.9
3	D	853	VAL	54.9
3	N	407	VAL	50.9
3	D	854	ALA	50.9
2	M	729	LEU	50.0
2	C	729	LEU	48.8
5	F	359	SER	48.2
3	N	408	GLU	47.2
2	M	227	PHE	46.9

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Mol	Chain	Res	Type	RSRZ
2	C	1001	VAL	46.0
1	A	2	LEU	44.4
2	C	513	VAL	43.8
3	D	852	ALA	43.6
2	C	510	ALA	42.7
3	D	855	HIS	42.3
5	P	414	ARG	40.4
4	E	49	GLN	39.3
2	C	1023	GLY	38.9
2	M	115	LEU	38.7
2	C	181	VAL	38.5
3	N	404	GLU	38.0
2	C	1000	MET	37.5
3	D	407	VAL	37.1
5	P	415	THR	36.9
1	L	94	LEU	36.0
2	C	194	VAL	35.9
1	B	118	ALA	35.4
1	L	96	THR	35.3
2	C	182	VAL	34.6
2	M	195	LEU	34.2
2	M	152	PRO	34.2
3	N	870	GLY	33.5
2	C	512	ARG	33.3
2	M	1001	VAL	33.2
2	M	1023	GLY	33.2
5	P	182	ALA	32.4
2	C	192	PRO	32.3
2	C	180	GLY	32.0
2	C	509	ALA	32.0
1	B	150	TYR	31.5
2	C	1024	LYS	31.5
1	L	189	ARG	31.4
2	M	223	ASP	31.3
1	L	188	GLN	30.9
5	F	182	ALA	30.7
2	M	228	ALA	30.7
2	C	153	ALA	30.6
5	F	386	VAL	30.4
2	M	1	MET	30.3
3	D	851	LEU	30.2
3	N	238	PRO	29.9

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Mol	Chain	Res	Type	RSRZ
2	C	730	SER	29.8
2	M	18	LEU	29.5
2	M	1024	LYS	29.4
5	F	423	ASP	29.4
3	D	530	VAL	29.3
4	E	2	ALA	29.3
2	C	223	ASP	29.0
5	P	186	HIS	29.0
5	F	186	HIS	29.0
5	F	90	GLN	28.6
3	N	403	PHE	28.2
2	C	763	GLY	28.1
2	M	192	PRO	28.0
1	L	93	SER	27.9
3	D	67	ARG	27.8
3	N	235	ALA	27.8
2	M	17	PRO	27.8
2	C	1	MET	27.7
1	A	157	GLY	27.6
2	M	224	GLU	27.1
2	C	224	GLU	27.0
1	A	155	LYS	26.9
1	A	6	LEU	26.9
2	M	226	VAL	26.8
2	C	195	LEU	26.7
5	P	183	ALA	26.5
3	N	530	VAL	26.4
3	D	850	LEU	26.2
1	B	126	ASP	26.2
2	M	116	GLY	25.9
5	F	421	PHE	25.7
3	D	440	VAL	25.4
3	D	403	PHE	25.2
2	M	114	PHE	25.1
3	N	1070	TYR	25.1
2	C	556	ASN	25.0
1	L	118	ALA	24.9
5	F	394	ARG	24.9
5	F	360	LYS	24.8
2	M	180	GLY	24.8
2	M	730	SER	24.5
3	D	401	TYR	24.4

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Mol	Chain	Res	Type	RSRZ
4	O	49	GLN	24.4
2	M	153	ALA	24.2
5	F	387	GLY	24.1
1	K	155	LYS	24.1
5	F	419	ARG	24.0
5	P	394	ARG	23.8
1	B	149	GLY	23.8
2	M	377	PRO	23.8
2	M	1000	MET	23.7
2	C	728	HIS	23.7
2	C	1077	PRO	23.7
5	P	416	ARG	23.7
2	M	171	TRP	23.4
5	P	102	LEU	23.3
2	M	230	ARG	23.3
2	C	17	PRO	23.3
3	N	531	ASP	23.1
2	M	231	PRO	23.1
3	D	849	ALA	23.0
3	D	531	ASP	23.0
5	P	386	VAL	22.9
2	C	511	GLU	22.5
1	L	157	GLY	22.5
5	F	91	VAL	22.5
3	D	416	ALA	22.4
2	M	182	VAL	22.3
3	D	1505	ALA	22.2
3	N	853	VAL	22.2
3	N	1251	ASP	22.2
2	C	21	ILE	22.2
2	C	20	GLU	22.1
2	C	152	PRO	21.9
5	F	183	ALA	21.9
2	M	194	VAL	21.9
3	N	409	VAL	21.9
3	D	159	ARG	21.9
5	F	415	THR	21.8
3	N	239	GLY	21.7
1	L	185	ARG	21.6
1	L	159	LYS	21.4
1	A	156	HIS	21.4
3	D	588	GLY	21.4

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Mol	Chain	Res	Type	RSRZ
2	C	196	LEU	21.3
1	L	190	THR	21.2
2	M	375	SER	21.1
1	B	159	LYS	21.0
2	M	191	PHE	21.0
2	C	1002	GLU	21.0
1	B	148	VAL	20.9
5	P	419	ARG	20.9
2	M	590	ASP	20.8
3	N	871	LYS	20.7
2	M	513	VAL	20.7
2	M	1077	PRO	20.6
3	D	417	PRO	20.5
2	C	16	PRO	20.5
4	O	2	ALA	20.2
5	P	180	GLY	20.2
3	D	640	HIS	20.2
2	M	19	THR	20.2
2	M	234	ALA	20.1
3	N	640	HIS	20.0
2	M	95	TYR	20.0
2	M	1118	LYS	19.9
3	N	944	THR	19.8
2	C	82	GLU	19.8
3	D	156	GLU	19.7
2	M	510	ALA	19.6
5	P	105	LYS	19.5
2	M	181	VAL	19.5
3	D	1342	GLU	19.5
5	P	421	PHE	19.4
5	F	121	GLY	19.3
2	M	199	VAL	19.3
3	N	534	ARG	19.0
3	D	364	GLY	18.9
3	D	532	GLY	18.9
2	C	220	GLY	18.8
2	C	376	ARG	18.8
2	M	728	HIS	18.8
2	M	558	ALA	18.7
2	C	553	ASP	18.6
1	B	46	SER	18.6
2	M	1002	GLU	18.6

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Mol	Chain	Res	Type	RSRZ
3	D	856	GLY	18.5
2	M	512	ARG	18.5
5	F	393	THR	18.4
2	C	525	SER	18.3
1	L	158	ILE	18.2
2	M	198	ARG	18.1
3	N	137	PRO	18.1
2	C	555	ALA	18.0
2	C	524	VAL	18.0
1	B	119	ASP	17.9
1	B	188	GLN	17.9
2	M	94	LEU	17.9
1	L	119	ASP	17.9
3	N	1316	GLY	17.8
2	M	983	ILE	17.8
1	B	157	GLY	17.8
2	C	764	GLU	17.7
5	F	391	GLY	17.7
3	D	1070	TYR	17.7
2	M	560	MET	17.6
3	D	441	ARG	17.6
1	L	91	ASN	17.5
1	K	31	GLY	17.5
5	F	102	LEU	17.4
2	C	514	VAL	17.3
3	D	400	VAL	17.3
3	D	405	ASP	17.3
3	D	1504	GLU	17.3
3	D	585	GLY	17.1
3	N	163	TYR	17.1
3	D	505	SER	17.1
2	C	504	GLU	17.1
3	N	236	TYR	17.1
2	C	18	LEU	17.0
2	C	379	GLU	17.0
3	D	1341	PRO	17.0
2	C	1118	LYS	17.0
1	A	126	ASP	16.9
2	C	560	MET	16.9
5	P	101	GLU	16.9
3	N	1073	SER	16.8
2	C	559	LEU	16.7

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Mol	Chain	Res	Type	RSRZ
2	C	375	SER	16.6
3	D	1251	ASP	16.6
3	N	696	HIS	16.5
3	D	442	ASN	16.5
2	C	169	GLY	16.5
1	L	160	ASP	16.5
3	N	595	GLY	16.5
2	C	19	THR	16.4
2	M	1065	ALA	16.4
3	N	594	PRO	16.4
2	C	193	LEU	16.4
3	N	854	ALA	16.3
5	P	359	SER	16.3
2	M	555	ALA	16.3
2	C	663	ASN	16.2
2	M	16	PRO	16.2
3	D	534	ARG	16.2
5	F	390	PHE	16.2
5	P	90	GLN	16.2
2	M	1025	ALA	16.1
2	C	165	LEU	16.1
2	C	15	LEU	16.1
1	K	128	HIS	16.0
1	L	184	THR	16.0
2	C	981	GLU	15.9
1	B	125	PRO	15.9
5	F	136	LEU	15.9
2	M	219	GLN	15.9
1	B	151	VAL	15.9
3	D	1408	ILE	15.8
1	L	95	GLN	15.8
2	M	229	MET	15.8
3	D	1340	GLY	15.8
2	C	191	PHE	15.8
3	D	1316	GLY	15.7
3	D	439	LEU	15.7
5	P	334	PRO	15.7
3	D	586	ARG	15.7
5	F	414	ARG	15.6
2	C	586	ARG	15.5
1	K	126	ASP	15.4
2	C	168	ARG	15.4

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Mol	Chain	Res	Type	RSRZ
2	M	1062	GLY	15.3
3	N	717	GLN	15.3
3	N	533	GLY	15.2
1	L	92	PRO	15.2
1	K	30	ARG	15.1
3	N	237	LYS	15.1
2	C	380	ALA	14.9
5	P	179	GLU	14.9
2	C	114	PHE	14.8
3	N	1066	THR	14.8
2	C	589	ARG	14.7
3	D	857	ILE	14.7
1	B	190	THR	14.7
3	N	225	LEU	14.7
2	M	984	GLU	14.7
2	C	931	GLY	14.7
2	C	590	ASP	14.7
2	C	155	PRO	14.7
3	D	415	VAL	14.7
2	C	116	GLY	14.6
1	L	126	ASP	14.6
2	M	21	ILE	14.6
2	M	380	ALA	14.6
1	L	90	LEU	14.6
2	C	221	LEU	14.6
3	D	1503	VAL	14.5
3	N	1408	ILE	14.5
3	N	641	GLN	14.4
2	M	522	VAL	14.4
3	D	717	GLN	14.4
5	F	145	PRO	14.4
2	C	1075	ASP	14.3
1	A	159	LYS	14.3
5	P	135	ILE	14.3
2	M	233	GLU	14.2
2	C	171	TRP	14.2
3	D	696	HIS	14.2
5	P	413	SER	14.2
5	P	333	ILE	14.1
5	F	334	PRO	14.1
5	F	336	GLU	14.0
3	N	869	MET	14.0

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Mol	Chain	Res	Type	RSRZ
2	M	225	SER	13.9
3	D	858	VAL	13.9
2	M	559	LEU	13.9
3	N	532	GLY	13.9
5	F	245	GLN	13.9
2	M	23	VAL	13.8
2	C	166	PRO	13.7
5	F	95	THR	13.7
2	C	558	ALA	13.7
2	M	523	ILE	13.6
2	C	881	ASN	13.6
3	D	533	GLY	13.6
3	D	235	ALA	13.6
2	M	931	GLY	13.6
2	C	732	ALA	13.5
1	K	156	HIS	13.5
2	C	79	PRO	13.4
3	D	238	PRO	13.4
5	F	185	GLN	13.4
3	N	852	ALA	13.4
2	C	983	ILE	13.4
3	D	233	LYS	13.3
5	F	94	LEU	13.3
1	K	32	PHE	13.3
2	M	379	GLU	13.3
1	B	189	ARG	13.3
2	C	461	VAL	13.3
2	M	981	GLU	13.3
2	C	523	ILE	13.2
5	F	93	LEU	13.2
2	C	765	SER	13.2
5	F	181	GLU	13.2
3	D	157	GLU	13.2
1	B	158	ILE	13.2
2	C	507	ARG	13.2
2	C	554	ASP	13.1
2	M	220	GLY	13.1
2	M	155	PRO	13.1
1	L	191	ASP	13.0
3	N	1437	ALA	13.0
2	M	221	LEU	13.0
2	M	179	ASN	13.0

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Mol	Chain	Res	Type	RSRZ
1	L	161	ARG	13.0
3	D	1073	SER	12.9
2	M	196	LEU	12.9
1	B	162	ILE	12.9
2	C	183	SER	12.9
2	C	762	LYS	12.9
2	C	23	VAL	12.9
2	M	113	VAL	12.9
3	D	594	PRO	12.8
3	D	408	GLU	12.8
2	C	464	LEU	12.8
3	N	1442	ASN	12.7
5	P	245	GLN	12.7
1	A	128	HIS	12.7
1	A	158	ILE	12.7
2	M	235	LEU	12.7
2	C	234	ALA	12.7
2	C	164	PRO	12.6
1	B	185	ARG	12.6
5	P	94	LEU	12.6
3	N	855	HIS	12.6
2	C	251	ASP	12.5
1	A	153	ALA	12.5
3	N	159	ARG	12.5
2	M	186	VAL	12.5
1	L	162	ILE	12.5
1	B	184	THR	12.4
5	F	283	GLY	12.4
3	N	1285	GLU	12.4
5	P	423	ASP	12.2
2	M	982	PRO	12.1
2	M	553	ASP	12.1
5	P	75	ILE	12.1
5	P	145	PRO	12.1
3	N	867	ARG	12.0
2	C	1022	GLY	12.0
3	D	562	ALA	12.0
3	N	588	GLY	12.0
5	F	358	LEU	11.9
2	M	979	THR	11.9
2	C	557	ARG	11.9
3	N	1441	GLN	11.9

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Mol	Chain	Res	Type	RSRZ
2	M	511	GLU	11.8
4	E	48	MET	11.8
2	M	48	PHE	11.7
1	B	155	LYS	11.7
2	C	1025	ALA	11.7
3	D	154	THR	11.7
2	M	589	ARG	11.7
3	D	1409	ALA	11.6
3	N	156	GLU	11.6
1	A	16	GLN	11.6
3	N	505	SER	11.6
3	D	860	LEU	11.6
4	O	3	GLU	11.6
3	N	597	ASP	11.6
2	M	554	ASP	11.6
3	N	1317	ASP	11.6
2	M	232	GLU	11.6
3	D	843	PHE	11.5
3	N	552	ASN	11.5
3	N	415	VAL	11.5
3	N	364	GLY	11.5
2	C	731	GLU	11.5
2	C	1078	GLU	11.5
2	C	198	ARG	11.4
2	C	227	PHE	11.4
1	L	187	GLY	11.4
2	M	172	ILE	11.4
2	M	1075	ASP	11.2
2	C	1076	VAL	11.2
5	F	146	GLY	11.2
1	A	154	GLU	11.1
2	C	37	GLU	11.1
3	D	1337	GLU	11.1
2	M	378	LEU	11.1
2	C	43	GLY	11.1
5	F	180	GLY	11.1
1	A	151	VAL	11.1
1	B	117	VAL	11.1
3	N	1341	PRO	11.1
5	P	103	ALA	11.0
2	C	335	THR	11.0
3	D	1404	ASN	11.0

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Mol	Chain	Res	Type	RSRZ
3	N	697	GLY	11.0
5	F	413	SER	11.0
3	N	858	VAL	11.0
2	M	178	PRO	11.0
2	M	184	MET	11.0
2	C	170	PRO	11.0
2	M	417	GLY	11.0
2	M	627	ARG	10.9
4	E	3	GLU	10.9
2	C	377	PRO	10.9
2	C	1074	GLU	10.9
2	M	164	PRO	10.8
3	D	638	LYS	10.8
3	N	945	SER	10.7
1	B	156	HIS	10.7
2	M	933	GLY	10.7
2	M	1022	GLY	10.7
3	D	641	GLN	10.7
3	N	872	ARG	10.6
2	C	167	LYS	10.6
2	C	85	GLU	10.6
5	P	136	LEU	10.6
1	A	152	PRO	10.6
2	M	163	ILE	10.5
2	M	556	ASN	10.5
2	C	1117	SER	10.5
2	C	81	ASP	10.4
1	K	157	GLY	10.4
2	M	15	LEU	10.4
3	N	1050	GLY	10.4
3	N	1342	GLU	10.4
2	C	222	MET	10.4
5	P	91	VAL	10.4
1	A	5	LYS	10.3
2	M	347	GLY	10.3
2	M	93	PRO	10.3
2	C	717	LEU	10.3
3	N	1340	GLY	10.3
3	N	1358	ALA	10.3
1	B	182	GLU	10.3
5	F	120	THR	10.3
5	F	355	GLU	10.3

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Mol	Chain	Res	Type	RSRZ
2	C	522	VAL	10.3
5	F	74	LYS	10.3
3	N	868	TYR	10.3
3	D	697	GLY	10.3
3	N	844	ALA	10.2
5	F	241	TRP	10.2
2	M	1076	VAL	10.2
2	C	24	GLU	10.2
3	D	1049	SER	10.2
2	C	47	ALA	10.2
2	C	979	THR	10.1
2	M	732	ALA	10.1
5	P	89	GLY	10.1
2	C	184	MET	10.1
3	D	944	THR	10.1
5	P	335	ASP	10.1
3	D	1129	THR	10.0
5	F	179	GLU	10.0
2	C	984	GLU	10.0
5	F	285	GLU	10.0
2	C	782	ALA	10.0
3	N	1343	ALA	10.0
4	O	94	PRO	10.0
5	P	332	PHE	10.0
3	D	402	PRO	10.0
2	M	170	PRO	9.9
2	M	557	ARG	9.9
3	D	1419	PRO	9.9
3	D	365	ASP	9.9
2	M	20	GLU	9.9
2	C	14	PRO	9.9
4	O	47	LYS	9.9
3	N	230	TRP	9.9
3	N	859	ASP	9.9
2	M	169	GLY	9.8
2	C	885	ILE	9.8
3	D	155	ASP	9.8
5	F	184	ARG	9.8
2	C	219	GLN	9.8
4	O	48	MET	9.8
2	M	1061	GLU	9.8
5	P	181	GLU	9.8

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Mol	Chain	Res	Type	RSRZ
1	L	97	VAL	9.7
2	M	49	ARG	9.7
3	N	160	GLU	9.7
2	M	183	SER	9.7
1	B	42	ARG	9.7
5	P	144	ILE	9.7
2	C	338	GLU	9.7
1	A	108	GLU	9.6
3	D	589	ALA	9.6
2	C	441	VAL	9.6
2	M	441	VAL	9.6
5	P	385	GLU	9.6
2	M	950	LEU	9.6
2	M	173	ASP	9.6
5	F	135	ILE	9.5
2	M	167	LYS	9.5
3	D	418	GLY	9.5
5	F	119	ILE	9.5
1	K	127	LEU	9.5
3	N	528	VAL	9.4
2	M	675	ALA	9.4
5	F	363	GLU	9.4
3	N	1072	ILE	9.4
2	C	508	ILE	9.4
3	D	108	VAL	9.4
2	M	238	LEU	9.3
5	F	416	ARG	9.3
2	M	550	LEU	9.3
3	N	227	LEU	9.3
5	P	315	VAL	9.3
1	L	183	ASP	9.3
2	M	350	ARG	9.3
3	D	808	THR	9.3
5	F	335	ASP	9.3
1	B	152	PRO	9.3
3	N	1074	SER	9.2
2	C	172	ILE	9.2
1	B	187	GLY	9.2
2	M	1066	ALA	9.2
3	D	1336	LEU	9.2
2	C	46	ALA	9.2
3	N	1315	ASP	9.2

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Mol	Chain	Res	Type	RSRZ
5	F	105	LYS	9.2
3	N	638	LYS	9.2
1	K	159	LYS	9.2
5	P	344	ALA	9.2
2	C	115	LEU	9.2
1	B	191	ASP	9.1
2	C	225	SER	9.1
3	D	1065	LEU	9.1
2	C	675	ALA	9.1
2	M	222	MET	9.0
2	C	25	SER	9.0
3	N	1051	GLU	9.0
2	M	586	ARG	9.0
5	P	393	THR	9.0
3	D	438	ASP	9.0
3	N	240	GLU	9.0
3	D	946	GLY	9.0
5	P	241	TRP	9.0
2	C	1065	ALA	9.0
3	N	1337	GLU	9.0
3	D	1400	VAL	8.9
3	D	1442	ASN	8.9
5	P	121	GLY	8.9
1	A	31	GLY	8.9
3	D	1418	LYS	8.9
3	D	859	ASP	8.9
2	C	502	PRO	8.8
3	D	561	GLY	8.8
5	P	363	GLU	8.8
2	C	1003	ASP	8.8
2	C	381	ALA	8.7
2	C	228	ALA	8.7
3	N	849	ALA	8.7
2	M	946	ARG	8.6
3	D	234	GLU	8.6
2	M	731	GLU	8.6
5	P	106	VAL	8.6
1	B	127	LEU	8.6
3	N	873	LEU	8.6
5	P	93	LEU	8.6
3	N	1286	THR	8.6
3	N	856	GLY	8.6

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Mol	Chain	Res	Type	RSRZ
3	D	719	VAL	8.5
2	M	1064	ASN	8.5
3	N	1014	ASN	8.5
3	N	226	PRO	8.5
3	D	230	TRP	8.5
3	D	1317	ASP	8.5
3	D	867	ARG	8.5
3	D	1360	GLY	8.5
2	M	778	PHE	8.4
1	L	125	PRO	8.4
2	M	117	HIS	8.4
1	K	77	GLU	8.4
3	D	548	ILE	8.4
2	M	193	LEU	8.4
2	M	376	ARG	8.4
3	D	163	TYR	8.4
5	F	89	GLY	8.3
3	D	66	GLN	8.3
5	P	98	GLU	8.3
1	B	47	SER	8.3
5	P	283	GLY	8.3
5	P	104	ARG	8.3
4	E	95	GLY	8.3
2	C	283	ILE	8.3
2	C	378	LEU	8.2
2	M	151	ASP	8.2
1	A	216	GLU	8.2
3	D	552	ASN	8.2
3	D	945	SER	8.2
3	N	555	LYS	8.2
1	L	186	LEU	8.2
5	F	204	GLY	8.2
5	P	185	GLN	8.1
1	L	117	VAL	8.1
3	D	430	ASP	8.1
3	D	20	SER	8.1
2	C	238	LEU	8.1
5	P	184	ARG	8.1
3	N	1069	GLU	8.1
3	D	223	LEU	8.1
2	C	208	ALA	8.1
3	D	504	ASP	8.1

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Mol	Chain	Res	Type	RSRZ
3	N	1239	ARG	8.1
3	N	167	GLU	8.0
2	M	677	MET	8.0
2	C	1004	LYS	8.0
1	K	151	VAL	8.0
4	E	51	LEU	8.0
3	D	529	GLN	8.0
3	D	1074	SER	8.0
2	M	976	ASP	8.0
1	B	43	ILE	8.0
3	N	20	SER	8.0
1	L	42	ARG	8.0
2	C	624	PRO	8.0
2	M	251	ASP	7.9
2	M	1117	SER	7.9
3	D	1362	LYS	7.9
3	N	705	ALA	7.9
2	M	351	LEU	7.9
3	N	241	ILE	7.9
2	M	344	PHE	7.9
5	P	387	GLY	7.9
2	C	515	ALA	7.9
5	F	75	ILE	7.9
2	C	350	ARG	7.9
5	P	384	GLU	7.9
3	D	240	GLU	7.8
3	N	946	GLY	7.8
5	F	144	ILE	7.8
2	C	231	PRO	7.8
1	A	213	GLN	7.8
2	M	1038	TRP	7.8
2	C	817	PRO	7.8
2	C	150	PRO	7.8
2	M	203	ASP	7.7
2	C	197	LEU	7.7
3	D	587	ARG	7.7
3	N	535	PHE	7.7
3	D	236	TYR	7.7
3	N	1068	LEU	7.7
2	C	884	GLN	7.7
2	M	319	GLY	7.7
2	C	263	ASP	7.6

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Mol	Chain	Res	Type	RSRZ
5	F	122	LEU	7.6
2	M	514	VAL	7.6
3	D	766	ALA	7.6
3	N	410	SER	7.6
2	C	561	GLY	7.6
2	M	775	ARG	7.6
3	D	188	GLY	7.6
3	D	229	ALA	7.6
3	N	845	ASN	7.6
3	N	561	GLY	7.6
3	N	1065	LEU	7.6
1	A	4	SER	7.5
2	C	252	LYS	7.5
2	M	782	ALA	7.5
2	C	674	VAL	7.5
1	K	110	LYS	7.5
5	P	339	PRO	7.5
2	C	179	ASN	7.5
2	M	1078	GLU	7.5
3	N	94	GLU	7.5
3	D	1441	GLN	7.5
1	K	148	VAL	7.5
2	M	793	PRO	7.5
3	D	1072	ILE	7.5
3	D	558	LEU	7.5
3	D	699	VAL	7.4
2	M	96	ALA	7.4
3	N	1404	ASN	7.4
5	P	141	VAL	7.4
2	C	207	LEU	7.4
2	C	173	ASP	7.4
3	N	504	ASP	7.4
1	L	46	SER	7.4
2	C	460	ARG	7.4
2	M	881	ASN	7.4
3	D	237	LYS	7.3
1	A	148	VAL	7.3
3	N	108	VAL	7.3
5	F	98	GLU	7.3
3	D	404	GLU	7.3
2	C	349	ALA	7.3
5	P	343	ASP	7.3

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Mol	Chain	Res	Type	RSRZ
4	O	52	GLU	7.2
3	D	1502	ALA	7.2
2	C	988	VAL	7.2
1	K	216	GLU	7.2
3	N	1443	THR	7.2
3	D	406	ASP	7.1
3	N	157	GLU	7.1
3	N	857	ILE	7.1
3	D	870	GLY	7.1
3	N	1252	ILE	7.1
2	M	72	ARG	7.1
1	L	155	LYS	7.1
2	M	267	TYR	7.1
2	C	844	GLY	7.1
3	N	414	ARG	7.1
5	F	361	LEU	7.0
3	N	1344	VAL	7.0
2	M	980	GLY	7.0
3	D	979	GLU	7.0
2	C	716	LYS	7.0
3	N	1049	SER	7.0
2	C	232	GLU	7.0
2	C	775	ARG	7.0
3	N	1360	GLY	6.9
3	D	1128	VAL	6.9
2	C	796	GLU	6.9
3	N	850	LEU	6.9
3	N	860	LEU	6.9
2	M	14	PRO	6.9
2	M	165	LEU	6.9
3	N	791	TYR	6.9
3	D	877	PRO	6.9
1	L	216	GLU	6.9
2	C	618	GLY	6.9
3	N	947	ILE	6.9
5	F	147	LEU	6.8
1	K	152	PRO	6.8
5	F	86	HIS	6.8
2	C	784	ASP	6.8
2	C	982	PRO	6.8
3	N	1409	ALA	6.8
2	M	252	LYS	6.8

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Mol	Chain	Res	Type	RSRZ
2	M	618	GLY	6.8
5	F	177	ALA	6.8
1	B	120	VAL	6.8
5	F	356	LYS	6.8
1	B	45	LEU	6.8
4	O	95	GLY	6.8
2	C	235	LEU	6.8
3	D	1343	ALA	6.8
2	M	461	VAL	6.8
3	D	583	ASP	6.8
1	A	107	LYS	6.8
2	M	185	LYS	6.8
4	O	77	GLU	6.8
2	M	374	ASN	6.8
3	D	1315	ASP	6.8
3	N	1129	THR	6.8
5	F	420	ASP	6.8
1	A	110	LYS	6.8
2	M	123	GLU	6.7
2	C	226	VAL	6.7
3	N	138	LYS	6.7
3	N	1440	PHE	6.7
2	C	199	VAL	6.7
5	F	141	VAL	6.7
5	P	336	GLU	6.7
1	L	156	HIS	6.7
5	F	332	PHE	6.7
1	L	192	LEU	6.7
3	N	851	LEU	6.7
3	N	430	ASP	6.7
5	P	329	TYR	6.7
1	K	29	GLU	6.7
1	K	67	THR	6.7
2	M	144	PRO	6.7
3	D	137	PRO	6.7
3	D	639	LEU	6.7
5	F	357	ALA	6.6
3	N	586	ARG	6.6
2	M	79	PRO	6.6
2	M	348	LEU	6.6
3	N	18	ILE	6.6
3	N	1434	TRP	6.6

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Mol	Chain	Res	Type	RSRZ
2	M	175	GLU	6.6
3	D	69	GLU	6.6
2	C	933	GLY	6.6
4	E	94	PRO	6.6
5	F	101	GLU	6.6
5	P	348	SER	6.5
1	L	123	MET	6.5
1	B	116	PRO	6.5
3	N	154	THR	6.5
3	N	556	LYS	6.5
3	D	773	ALA	6.5
3	N	96	ALA	6.5
3	N	1444	THR	6.5
2	C	706	GLU	6.5
3	N	1336	LEU	6.5
5	F	338	LEU	6.5
5	P	355	GLU	6.5
2	M	561	GLY	6.5
2	C	665	PHE	6.5
2	C	42	VAL	6.5
3	N	585	GLY	6.5
3	D	980	MET	6.5
5	P	360	LYS	6.5
2	C	342	ASP	6.5
2	M	268	ASP	6.5
2	C	255	ALA	6.5
2	C	999	HIS	6.5
3	N	229	ALA	6.4
3	D	1050	GLY	6.4
2	C	781	LYS	6.4
2	C	880	MET	6.4
3	N	846	PRO	6.4
3	D	848	GLU	6.4
2	C	676	ILE	6.4
1	B	183	ASP	6.4
5	P	410	TYR	6.3
3	N	224	ARG	6.3
5	F	249	ARG	6.3
3	D	845	ASN	6.3
1	A	118	ALA	6.3
1	A	3	ASP	6.3
5	P	74	LYS	6.3

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Mol	Chain	Res	Type	RSRZ
2	C	550	LEU	6.3
2	M	166	PRO	6.3
2	M	1074	GLU	6.3
2	M	1079	PRO	6.2
3	D	755	ALA	6.2
5	F	389	PHE	6.2
2	C	811	PRO	6.2
5	P	411	HIS	6.2
2	M	844	GLY	6.2
1	B	112	ARG	6.2
5	F	248	ASN	6.2
1	A	130	ALA	6.2
3	N	1013	GLU	6.2
2	M	112	GLU	6.2
2	M	92	ALA	6.2
2	M	1026	GLN	6.1
2	M	46	ALA	6.1
2	C	795	GLY	6.1
1	B	90	LEU	6.1
1	B	124	ASN	6.1
2	C	250	ARG	6.1
3	N	719	VAL	6.1
3	D	695	ILE	6.1
2	C	526	PRO	6.1
2	C	333	ILE	6.1
2	C	465	GLY	6.1
2	M	74	GLY	6.1
2	M	47	ALA	6.1
5	F	281	GLU	6.1
3	D	556	LYS	6.1
3	D	241	ILE	6.1
1	K	81	ASN	6.1
2	C	932	GLU	6.1
3	D	167	GLU	6.1
2	C	1066	ALA	6.1
3	D	1239	ARG	6.0
1	A	217	ILE	6.0
2	M	75	GLU	6.0
2	C	673	LEU	6.0
3	D	861	GLN	6.0
3	N	122	GLU	6.0
5	F	422	LEU	6.0

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Mol	Chain	Res	Type	RSRZ
2	M	381	ALA	6.0
1	B	161	ARG	6.0
2	C	463	GLU	6.0
1	K	35	THR	6.0
2	C	345	ARG	6.0
3	D	160	GLU	6.0
3	N	1438	ALA	6.0
1	B	160	ASP	6.0
1	L	219	ARG	6.0
2	C	233	GLU	6.0
3	D	443	VAL	6.0
3	D	1252	ILE	6.0
1	A	214	ALA	6.0
3	D	595	GLY	5.9
2	C	204	GLN	5.9
1	A	109	VAL	5.9
3	N	1446	VAL	5.9
1	B	186	LEU	5.9
2	C	100	LEU	5.9
2	C	163	ILE	5.9
2	M	283	ILE	5.9
1	K	80	LEU	5.9
5	P	338	LEU	5.9
1	A	189	ARG	5.9
2	M	187	ASN	5.9
2	C	445	GLU	5.9
2	C	664	GLY	5.8
5	P	140	ARG	5.8
2	M	674	VAL	5.8
2	C	627	ARG	5.8
3	D	1288	GLU	5.8
3	D	551	ASN	5.8
2	M	464	LEU	5.8
5	F	87	GLU	5.8
3	D	756	GLN	5.8
3	D	1480	PHE	5.8
5	P	340	SER	5.8
2	C	462	ASP	5.8
2	M	77	PRO	5.8
1	L	88	ARG	5.8
2	M	353	ARG	5.7
1	A	106	PRO	5.7

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Mol	Chain	Res	Type	RSRZ
2	C	793	PRO	5.7
2	M	1004	LYS	5.7
3	D	1314	LYS	5.7
3	D	753	SER	5.7
3	D	847	ASP	5.7
3	N	551	ASN	5.7
1	K	34	VAL	5.7
1	K	33	GLY	5.7
1	K	219	ARG	5.7
2	C	552	HIS	5.7
3	D	1066	THR	5.7
3	N	121	THR	5.7
3	N	1287	GLU	5.7
1	L	217	ILE	5.7
2	C	987	ILE	5.7
2	C	786	LYS	5.7
5	F	384	GLU	5.7
5	P	95	THR	5.6
3	D	844	ALA	5.6
3	D	1361	VAL	5.6
1	K	154	GLU	5.6
2	C	64	LEU	5.6
3	N	752	SER	5.6
2	M	265	ARG	5.6
2	C	625	LEU	5.6
2	C	185	LYS	5.6
5	P	86	HIS	5.6
3	N	562	ALA	5.6
5	P	281	GLU	5.6
3	N	695	ILE	5.6
2	M	349	ALA	5.5
2	C	662	GLU	5.5
5	F	103	ALA	5.5
5	P	302	LYS	5.5
3	D	1444	THR	5.5
2	M	44	ILE	5.5
2	M	987	ILE	5.5
3	D	615	ARG	5.5
3	N	1159	ARG	5.5
1	A	116	PRO	5.5
2	C	603	VAL	5.5
3	N	980	MET	5.5

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Mol	Chain	Res	Type	RSRZ
2	C	69	LEU	5.5
2	C	417	GLY	5.5
2	M	346	VAL	5.5
2	M	876	VAL	5.5
3	N	516	ALA	5.5
3	N	1138	ALA	5.5
3	D	752	SER	5.5
2	C	843	HIS	5.5
5	F	123	ASP	5.5
3	D	225	LEU	5.5
3	N	19	ARG	5.4
2	M	541	SER	5.4
2	C	202	TYR	5.4
2	C	359	MET	5.4
1	L	47	SER	5.4
5	F	395	GLU	5.4
4	O	51	LEU	5.4
2	C	86	LYS	5.4
2	C	989	VAL	5.4
2	C	883	GLY	5.4
2	C	346	VAL	5.4
4	O	78	ASN	5.4
2	M	509	ALA	5.4
3	N	948	THR	5.4
2	M	24	GLU	5.4
2	C	950	LEU	5.3
5	F	411	HIS	5.3
2	C	151	ASP	5.3
1	L	120	VAL	5.3
4	O	11	GLY	5.3
1	A	30	ARG	5.3
2	M	603	VAL	5.3
2	M	1042	ALA	5.3
5	P	322	GLY	5.3
3	D	810	GLU	5.3
2	M	100	LEU	5.3
2	C	77	PRO	5.3
2	C	876	VAL	5.3
3	N	21	TRP	5.3
2	M	168	ARG	5.3
2	M	540	PHE	5.3
2	M	591	SER	5.3

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Mol	Chain	Res	Type	RSRZ
3	D	1119	SER	5.3
3	N	1445	HIS	5.3
3	D	772	PRO	5.3
3	N	1325	LEU	5.2
3	D	904	VAL	5.2
4	E	50	THR	5.2
2	M	949	LYS	5.2
3	N	969	ARG	5.2
2	M	542	VAL	5.2
3	N	440	VAL	5.2
2	M	617	ASP	5.2
3	D	776	GLU	5.2
3	N	1314	LYS	5.2
2	C	175	GLU	5.2
5	P	420	ASP	5.2
2	C	722	ILE	5.2
2	C	766	GLU	5.2
3	D	965	GLU	5.2
3	N	1099	VAL	5.2
2	C	41	ASN	5.2
1	B	216	GLU	5.1
5	F	385	GLU	5.1
3	D	547	LEU	5.1
2	M	676	ILE	5.1
3	N	943	THR	5.1
2	C	49	ARG	5.1
3	N	1480	PHE	5.1
2	M	145	GLY	5.1
3	D	158	TYR	5.1
2	C	649	VAL	5.1
3	N	1003	VAL	5.1
3	N	1361	VAL	5.1
2	C	1012	PRO	5.1
2	M	176	VAL	5.1
2	C	727	PRO	5.1
3	N	1362	LYS	5.1
3	D	1003	VAL	5.1
3	N	1158	VAL	5.1
4	E	77	GLU	5.0
2	C	946	ARG	5.0
3	N	675	ARG	5.0
3	D	70	GLY	5.0

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Mol	Chain	Res	Type	RSRZ
3	D	958	GLU	5.0
2	M	354	GLY	5.0
5	P	120	THR	5.0
5	F	92	PRO	5.0
2	C	882	LEU	5.0
3	N	22	SER	5.0
2	M	460	ARG	5.0
3	N	93	ILE	5.0
3	N	810	GLU	5.0
5	P	92	PRO	5.0
5	F	405	LEU	5.0
3	D	765	SER	5.0
5	F	300	ASP	5.0
3	D	764	LEU	5.0
2	C	319	GLY	5.0
3	D	675	ARG	5.0
3	D	1014	ASN	5.0
2	M	706	GLU	5.0
3	N	401	TYR	5.0
3	N	1007	VAL	4.9
2	M	64	LEU	4.9
2	C	28	ARG	4.9
2	C	267	TYR	4.9
3	D	698	LYS	4.9
2	C	1027	PHE	4.9
3	N	1067	VAL	4.9
2	C	149	THR	4.9
3	N	1210	SER	4.9
2	C	334	ARG	4.9
3	D	239	GLY	4.9
3	N	1071	PHE	4.9
5	F	167	PRO	4.9
3	N	1439	SER	4.9
2	C	66	LEU	4.9
2	M	445	GLU	4.9
3	N	1345	GLU	4.9
2	C	1079	PRO	4.9
3	N	233	LYS	4.9
3	N	1064	GLY	4.9
2	M	1119	ARG	4.9
4	O	50	THR	4.9
2	C	50	GLU	4.9

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Mol	Chain	Res	Type	RSRZ
5	P	249	ARG	4.9
2	M	317	VAL	4.8
2	C	123	GLU	4.8
2	M	442	GLU	4.8
2	M	507	ARG	4.8
5	F	117	SER	4.8
3	D	909	ASN	4.8
1	L	121	GLU	4.8
2	C	761	PHE	4.8
2	C	517	ARG	4.8
3	N	1039	CYS	4.8
3	D	1345	GLU	4.8
1	K	66	SER	4.8
5	P	248	ASN	4.8
2	C	6	PHE	4.8
2	C	249	LYS	4.8
2	M	985	GLY	4.8
5	F	187	LEU	4.8
2	M	73	LEU	4.7
3	N	1128	VAL	4.7
2	M	932	GLU	4.7
4	E	96	GLU	4.7
5	F	312	GLN	4.7
2	M	1113	GLU	4.7
3	D	472	ALA	4.7
3	N	536	ALA	4.7
4	E	52	GLU	4.7
1	K	130	ALA	4.7
2	C	823	VAL	4.7
5	F	262	VAL	4.7
2	C	1113	GLU	4.7
2	M	9	ILE	4.7
3	D	379	ALA	4.7
1	L	127	LEU	4.7
5	F	96	LEU	4.7
3	N	773	ALA	4.7
3	D	121	THR	4.7
3	D	864	VAL	4.7
5	F	392	VAL	4.7
5	P	100	VAL	4.7
3	D	232	GLU	4.7
3	N	58	CYS	4.7

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Mol	Chain	Res	Type	RSRZ
2	M	455	LEU	4.7
3	N	558	LEU	4.7
2	C	265	ARG	4.7
2	M	320	HIS	4.6
2	C	1080	SER	4.6
1	A	127	LEU	4.6
2	M	763	GLY	4.6
1	L	138	LEU	4.6
3	D	1127	GLU	4.6
3	N	1017	PHE	4.6
1	B	192	LEU	4.6
3	N	1223	ILE	4.6
3	N	149	LYS	4.6
3	D	138	LYS	4.6
3	N	909	ASN	4.6
2	C	1021	LEU	4.6
2	C	341	THR	4.6
2	M	177	GLU	4.6
3	D	1363	LEU	4.6
5	P	119	ILE	4.6
3	D	1004	THR	4.6
1	K	47	SER	4.6
1	B	123	MET	4.5
1	K	14	ARG	4.5
3	D	1210	SER	4.5
2	M	845	ASN	4.5
1	B	142	VAL	4.5
2	M	988	VAL	4.5
3	D	1325	LEU	4.5
3	N	416	ALA	4.5
3	N	979	GLU	4.5
2	C	841	ASN	4.5
5	F	203	THR	4.5
3	N	1346	ARG	4.5
2	C	629	TYR	4.5
3	D	579	ASP	4.5
5	F	137	GLY	4.5
3	D	1007	VAL	4.5
3	N	78	VAL	4.5
2	C	80	GLN	4.5
3	D	869	MET	4.5
2	C	101	ILE	4.5

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Mol	Chain	Res	Type	RSRZ
2	M	101	ILE	4.5
3	N	1227	GLN	4.5
3	N	1455	LYS	4.5
3	N	223	LEU	4.4
5	P	187	LEU	4.4
2	M	947	ALA	4.4
1	L	150	TYR	4.4
3	D	760	ARG	4.4
2	C	1116	ALA	4.4
3	D	1051	GLU	4.4
1	B	92	PRO	4.4
4	O	4	PRO	4.4
1	B	41	ARG	4.4
2	C	812	GLY	4.4
1	L	199	ILE	4.4
3	N	548	ILE	4.4
3	N	861	GLN	4.4
2	C	372	LEU	4.4
2	C	506	ASN	4.4
2	C	528	GLU	4.4
2	C	742	VAL	4.4
5	F	106	VAL	4.4
3	N	365	ASP	4.4
2	M	197	LEU	4.4
2	C	1069	ALA	4.4
3	N	1505	ALA	4.4
3	N	706	PRO	4.4
3	N	799	LYS	4.4
2	C	446	GLY	4.4
3	D	878	GLY	4.4
2	M	237	ARG	4.3
3	N	529	GLN	4.3
2	C	974	LEU	4.3
2	C	733	ALA	4.3
1	K	108	GLU	4.3
3	D	1501	GLU	4.3
4	O	14	ASP	4.3
1	B	128	HIS	4.3
3	D	475	LYS	4.3
2	M	1069	ALA	4.3
3	D	106	LYS	4.3
2	C	374	ASN	4.3

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Mol	Chain	Res	Type	RSRZ
5	F	196	VAL	4.3
3	D	1069	GLU	4.3
3	D	554	LEU	4.3
3	N	203	ALA	4.3
2	C	177	GLU	4.3
2	C	505	GLY	4.3
5	P	147	LEU	4.3
2	C	613	VAL	4.3
2	C	756	VAL	4.3
1	L	43	ILE	4.3
1	K	112	ARG	4.3
1	B	121	GLU	4.3
3	N	16	GLU	4.3
2	C	253	ALA	4.3
2	C	596	TYR	4.3
3	D	948	THR	4.3
3	D	1077	ALA	4.3
3	N	506	GLY	4.2
2	M	2	GLU	4.2
3	N	1363	LEU	4.2
2	C	154	ARG	4.2
3	D	969	ARG	4.2
2	M	604	ALA	4.2
3	N	1326	THR	4.2
3	D	633	VAL	4.2
5	F	139	ALA	4.2
1	A	32	PHE	4.2
2	M	359	MET	4.2
2	M	200	LEU	4.2
2	C	144	PRO	4.2
2	C	440	PRO	4.2
2	C	186	VAL	4.2
2	C	936	VAL	4.2
2	M	459	ALA	4.2
3	N	596	SER	4.2
3	N	1273	VAL	4.2
2	C	347	GLY	4.2
2	C	998	TYR	4.2
3	N	67	ARG	4.2
3	D	1287	GLU	4.2
2	M	1080	SER	4.2
3	D	871	LYS	4.2

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Mol	Chain	Res	Type	RSRZ
3	N	1339	LYS	4.2
2	M	154	ARG	4.2
3	N	718	PRO	4.2
1	K	125	PRO	4.2
3	N	95	LEU	4.2
3	N	1433	SER	4.2
2	C	447	ALA	4.2
1	K	150	TYR	4.1
5	F	192	LEU	4.1
5	P	97	GLU	4.1
2	C	723	THR	4.1
2	M	204	GLN	4.1
2	M	867	VAL	4.1
2	C	320	HIS	4.1
3	D	928	ALA	4.1
2	C	65	VAL	4.1
2	C	332	ARG	4.1
2	M	236	ILE	4.1
3	N	1274	ILE	4.1
3	D	58	CYS	4.1
1	A	14	ARG	4.1
2	M	716	LYS	4.1
2	M	884	GLN	4.1
2	M	1114	GLY	4.1
3	D	224	ARG	4.1
2	C	845	ASN	4.1
2	C	757	GLY	4.1
5	P	138	SER	4.1
2	M	59	LYS	4.1
2	M	524	VAL	4.1
3	N	1047	LYS	4.1
3	N	1456	LYS	4.1
3	N	1324	PRO	4.1
5	F	339	PRO	4.1
2	C	604	ALA	4.1
4	E	32	ARG	4.0
2	C	178	PRO	4.0
3	D	771	SER	4.0
2	M	162	ILE	4.0
2	C	879	ARG	4.0
2	M	544	THR	4.0
3	D	1358	ALA	4.0

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Mol	Chain	Res	Type	RSRZ
2	C	162	ILE	4.0
1	B	140	MET	4.0
1	K	1	MET	4.0
3	N	206	ARG	4.0
5	F	284	ARG	4.0
2	C	59	LYS	4.0
2	M	521	PRO	4.0
3	D	78	VAL	4.0
2	C	457	ALA	4.0
3	D	862	ASP	4.0
3	D	1294	VAL	4.0
2	M	266	ARG	4.0
3	N	1137	ARG	4.0
2	C	990	GLY	4.0
3	D	715	ALA	4.0
3	N	707	THR	4.0
2	C	254	VAL	4.0
2	C	217	LEU	4.0
2	M	1035	MET	4.0
2	M	465	GLY	4.0
2	M	875	GLY	4.0
2	M	562	SER	4.0
3	N	63	TYR	4.0
2	M	444	PRO	4.0
3	D	1292	VAL	4.0
3	N	591	VAL	4.0
2	C	102	HIS	4.0
2	C	368	THR	3.9
3	N	1272	ALA	3.9
3	N	1131	SER	3.9
3	D	718	PRO	3.9
1	L	77	GLU	3.9
5	P	323	ASP	3.9
3	D	22	SER	3.9
1	A	87	VAL	3.9
3	N	92	HIS	3.9
1	A	186	LEU	3.9
5	P	358	LEU	3.9
2	C	909	ALA	3.9
3	D	559	ALA	3.9
3	N	1478	SER	3.9
2	C	35	PRO	3.9

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Mol	Chain	Res	Type	RSRZ
2	C	859	PRO	3.9
3	D	797	LYS	3.9
3	N	866	VAL	3.9
1	L	89	PHE	3.9
3	N	242	LEU	3.9
5	F	213	ILE	3.9
5	F	376	ILE	3.9
2	M	25	SER	3.9
3	D	1443	THR	3.9
5	F	388	ALA	3.9
5	P	87	GLU	3.9
2	C	1114	GLY	3.9
1	K	87	VAL	3.9
2	M	722	ILE	3.9
1	L	146	ARG	3.9
3	N	411	THR	3.9
1	B	207	PRO	3.9
2	M	873	PRO	3.9
5	F	143	HIS	3.9
2	C	1059	ASP	3.9
2	M	774	LEU	3.9
3	N	554	LEU	3.9
4	O	73	LEU	3.9
4	O	32	ARG	3.9
2	M	454	SER	3.9
2	C	794	PRO	3.9
1	A	185	ARG	3.9
3	N	215	TYR	3.9
5	P	176	ILE	3.9
5	P	362	SER	3.9
1	K	153	ALA	3.8
5	F	301	ALA	3.8
3	N	801	GLY	3.8
3	D	555	LYS	3.8
3	N	1294	VAL	3.8
3	N	1312	LEU	3.8
3	N	589	ALA	3.8
2	M	859	PRO	3.8
5	P	146	GLY	3.8
3	N	519	VAL	3.8
1	B	58	ILE	3.8
1	K	193	ASP	3.8

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Mol	Chain	Res	Type	RSRZ
2	C	710	ILE	3.8
3	D	107	ASP	3.8
1	L	140	MET	3.8
1	A	7	LYS	3.8
3	N	1430	SER	3.8
2	M	936	VAL	3.8
5	F	333	ILE	3.8
2	C	174	LEU	3.8
2	M	102	HIS	3.8
3	N	798	GLU	3.8
3	D	872	ARG	3.8
2	C	367	LEU	3.8
5	F	166	LEU	3.8
2	C	785	VAL	3.8
2	C	816	LYS	3.8
2	M	65	VAL	3.8
2	C	443	THR	3.8
1	A	227	ASN	3.8
1	L	23	PHE	3.8
3	N	796	ARG	3.7
5	F	118	GLU	3.7
5	F	340	SER	3.7
2	C	601	GLY	3.7
2	C	646	GLY	3.7
2	C	1062	GLY	3.7
4	E	68	LEU	3.7
2	M	82	GLU	3.7
3	N	560	GLN	3.7
1	L	21	GLY	3.7
1	B	138	LEU	3.7
1	B	217	ILE	3.7
3	N	604	THR	3.7
5	P	321	ILE	3.7
2	C	562	SER	3.7
2	C	591	SER	3.7
3	N	24	GLY	3.7
2	M	879	ARG	3.7
3	D	122	GLU	3.7
1	B	56	VAL	3.7
5	P	357	ALA	3.7
3	D	1303	TYR	3.7
2	C	141	HIS	3.7

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Mol	Chain	Res	Type	RSRZ
2	M	201	GLY	3.7
3	N	1400	VAL	3.7
2	C	980	GLY	3.7
2	C	95	TYR	3.7
2	C	1119	ARG	3.7
2	M	457	ALA	3.7
3	D	866	VAL	3.7
5	P	84	TYR	3.7
3	N	453	ASP	3.7
5	P	361	LEU	3.7
5	P	137	GLY	3.6
5	P	139	ALA	3.6
5	P	88	ILE	3.6
1	A	187	GLY	3.6
3	N	1004	THR	3.6
2	C	1026	GLN	3.6
1	A	20	TYR	3.6
3	D	205	TYR	3.6
2	C	7	GLY	3.6
2	M	272	ALA	3.6
1	L	197	LEU	3.6
3	N	1016	PRO	3.6
4	O	42	PRO	3.6
2	M	45	GLN	3.6
3	D	604	THR	3.6
2	C	1112	PHE	3.6
3	D	203	ALA	3.6
3	N	472	ALA	3.6
1	L	148	VAL	3.6
2	C	176	VAL	3.6
5	F	195	VAL	3.6
3	N	234	GLU	3.6
3	N	692	GLU	3.6
2	M	416	GLY	3.6
2	C	501	THR	3.6
2	M	954	THR	3.6
5	P	351	SER	3.6
3	N	1077	ALA	3.6
3	N	35	ARG	3.6
2	M	66	LEU	3.6
4	E	31	LEU	3.6
3	D	865	THR	3.6

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Mol	Chain	Res	Type	RSRZ
5	P	118	GLU	3.6
2	C	741	GLY	3.6
2	M	951	GLY	3.6
2	M	955	PRO	3.6
3	D	582	LEU	3.6
2	C	262	ALA	3.5
2	C	459	ALA	3.5
2	M	422	ARG	3.5
1	B	147	GLY	3.5
2	M	1043	TYR	3.5
3	N	1338	ALA	3.5
3	N	925	GLU	3.5
2	C	743	VAL	3.5
3	N	1040	GLY	3.5
3	D	608	SER	3.5
1	B	219	ARG	3.5
3	N	169	TYR	3.5
3	N	136	ASP	3.5
2	C	585	GLU	3.5
5	P	282	LEU	3.5
5	P	422	LEU	3.5
1	K	147	GLY	3.5
3	N	164	GLY	3.5
2	C	783	ARG	3.5
2	M	573	ARG	3.5
2	M	697	ARG	3.5
3	N	27	GLU	3.5
1	L	122	ILE	3.5
3	D	809	PRO	3.5
3	D	1273	VAL	3.5
2	M	592	LEU	3.5
3	N	1041	LEU	3.5
4	E	59	ASN	3.5
2	M	1045	ALA	3.5
3	D	767	HIS	3.5
3	N	1035	ILE	3.5
3	D	632	VAL	3.5
3	N	708	LEU	3.5
2	C	63	GLY	3.4
3	D	950	GLY	3.4
3	N	97	THR	3.4
2	M	440	PRO	3.4

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Mol	Chain	Res	Type	RSRZ
1	B	199	ILE	3.4
2	C	145	GLY	3.4
3	D	1061	PHE	3.4
3	N	843	PHE	3.4
5	F	84	TYR	3.4
1	K	191	ASP	3.4
2	C	268	ASP	3.4
3	N	402	PRO	3.4
2	C	54	ILE	3.4
2	M	613	VAL	3.4
3	D	166	GLN	3.4
3	N	1429	LEU	3.4
5	F	343	ASP	3.4
3	D	1274	ILE	3.4
3	N	1224	VAL	3.4
3	D	1068	LEU	3.4
3	N	214	GLU	3.4
5	P	203	THR	3.4
2	C	203	ASP	3.4
2	M	345	ARG	3.4
5	P	177	ALA	3.4
3	D	226	PRO	3.4
3	D	846	PRO	3.4
1	K	149	GLY	3.4
2	M	156	GLY	3.4
1	K	84	GLU	3.4
3	D	184	GLU	3.4
3	D	949	ILE	3.4
3	D	1420	LEU	3.4
3	N	1386	ASP	3.4
5	P	244	ARG	3.4
5	F	402	ASN	3.4
3	N	1303	TYR	3.4
3	N	1333	HIS	3.4
2	C	503	LEU	3.4
3	N	764	LEU	3.4
1	A	131	THR	3.4
1	L	98	THR	3.4
1	K	142	VAL	3.3
2	M	742	VAL	3.3
3	D	1227	GLN	3.3
1	L	182	GLU	3.3

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Mol	Chain	Res	Type	RSRZ
3	N	808	THR	3.3
3	D	21	TRP	3.3
2	M	784	ASP	3.3
1	A	220	GLU	3.3
2	C	777	ILE	3.3
3	D	947	ILE	3.3
5	P	213	ILE	3.3
1	B	170	VAL	3.3
4	E	64	ALA	3.3
2	C	58	ASP	3.3
3	D	1006	ALA	3.3
2	M	275	TYR	3.3
5	F	132	ARG	3.3
3	N	1419	PRO	3.3
2	M	68	PHE	3.3
5	F	328	PHE	3.3
2	M	54	ILE	3.3
2	M	1021	LEU	3.3
1	L	142	VAL	3.3
5	P	204	GLY	3.3
1	L	152	PRO	3.3
4	E	47	LYS	3.3
1	K	184	THR	3.3
5	P	143	HIS	3.3
1	A	219	ARG	3.3
1	A	115	LEU	3.2
2	M	883	GLY	3.2
2	C	278	GLU	3.2
3	N	1481	VAL	3.2
3	D	1130	ARG	3.2
3	D	95	LEU	3.2
2	C	1047	HIS	3.2
3	D	1000	THR	3.2
3	N	1000	THR	3.2
5	F	279	GLN	3.2
1	L	101	LEU	3.2
2	M	974	LEU	3.2
5	F	400	ILE	3.2
3	D	1324	PRO	3.2
3	N	877	PRO	3.2
3	D	231	VAL	3.2
3	N	1328	GLY	3.2

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Mol	Chain	Res	Type	RSRZ
3	D	1440	PHE	3.2
5	P	405	LEU	3.2
3	N	366	LYS	3.2
3	N	1486	VAL	3.2
4	O	39	VAL	3.2
2	M	408	ARG	3.2
2	C	117	HIS	3.2
1	B	211	LEU	3.2
2	C	70	GLU	3.2
4	O	68	LEU	3.2
2	M	885	ILE	3.2
2	M	959	PRO	3.2
3	N	417	PRO	3.2
5	F	176	ILE	3.2
1	B	53	VAL	3.2
2	M	1046	ALA	3.2
3	D	1099	VAL	3.2
2	M	652	GLY	3.2
2	M	372	LEU	3.2
2	C	9	ILE	3.2
2	C	36	PRO	3.2
2	C	647	GLN	3.2
3	D	1184	GLN	3.2
3	N	1436	SER	3.2
5	F	138	SER	3.2
2	C	422	ARG	3.1
3	N	972	LEU	3.1
2	C	602	GLU	3.1
3	D	896	ALA	3.1
3	N	77	GLY	3.1
2	M	534	VAL	3.1
5	F	404	ALA	3.1
2	M	596	TYR	3.1
3	N	59	ALA	3.1
5	P	388	ALA	3.1
3	N	126	VAL	3.1
2	C	642	ARG	3.1
3	N	709	HIS	3.1
3	D	961	LYS	3.1
1	K	220	GLU	3.1
2	M	609	ASN	3.1
3	N	1100	ASP	3.1

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Mol	Chain	Res	Type	RSRZ
4	O	44	GLU	3.1
2	M	150	PRO	3.1
3	D	557	LEU	3.1
3	N	155	ASP	3.1
3	D	716	PHE	3.1
3	N	699	VAL	3.1
5	F	342	VAL	3.1
2	M	41	ASN	3.1
3	N	1418	LYS	3.1
5	F	173	TYR	3.1
3	N	1454	GLY	3.1
5	P	210	LEU	3.1
4	O	43	GLU	3.1
3	D	1445	HIS	3.1
5	P	376	ILE	3.1
2	M	456	ALA	3.1
3	N	166	GLN	3.1
2	M	646	GLY	3.1
3	D	796	ARG	3.1
5	P	412	GLU	3.1
3	N	772	PRO	3.1
2	M	368	THR	3.1
2	C	13	ILE	3.1
3	N	1226	ALA	3.1
2	C	218	VAL	3.1
3	N	212	ARG	3.1
2	C	737	LEU	3.0
2	M	367	LEU	3.0
5	P	96	LEU	3.0
2	C	108	ILE	3.0
5	P	109	GLY	3.0
2	M	318	PRO	3.0
1	K	6	LEU	3.0
4	O	54	LEU	3.0
2	C	888	THR	3.0
3	D	631	ILE	3.0
3	N	759	ALA	3.0
3	N	1330	ILE	3.0
2	C	822	VAL	3.0
2	M	649	VAL	3.0
5	F	378	GLY	3.0
5	F	253	ASP	3.0

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Mol	Chain	Res	Type	RSRZ
2	M	418	LEU	3.0
2	C	850	ALA	3.0
3	N	146	PRO	3.0
1	A	112	ARG	3.0
3	N	178	LEU	3.0
3	N	1483	PHE	3.0
5	P	192	LEU	3.0
2	C	712	ALA	3.0
2	M	63	GLY	3.0
3	D	1330	ILE	3.0
2	C	383	ARG	3.0
2	M	1047	HIS	3.0
2	C	237	ARG	3.0
2	C	93	PRO	3.0
3	D	886	VAL	3.0
5	F	337	HIS	3.0
2	M	520	GLU	3.0
1	L	114	PHE	3.0
2	M	673	LEU	3.0
3	D	754	PHE	3.0
3	N	1407	LEU	3.0
1	B	96	THR	3.0
2	M	85	GLU	3.0
2	C	135	VAL	2.9
2	M	737	LEU	2.9
2	C	779	GLY	2.9
5	P	222	ARG	2.9
5	P	201	LYS	2.9
3	N	741	ASP	2.9
2	M	998	TYR	2.9
3	N	1006	ALA	2.9
3	N	1329	ALA	2.9
5	F	133	ALA	2.9
1	A	144	VAL	2.9
3	D	774	SER	2.9
4	O	53	GLY	2.9
4	O	7	ASP	2.9
3	N	904	VAL	2.9
1	A	47	SER	2.9
1	B	94	LEU	2.9
1	L	25	LEU	2.9
2	C	797	GLY	2.9

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Mol	Chain	Res	Type	RSRZ
3	N	1421	LEU	2.9
2	C	209	ARG	2.9
2	M	611	ILE	2.9
3	D	94	GLU	2.9
3	N	73	CYS	2.9
3	N	743	ASP	2.9
3	N	1292	VAL	2.9
5	P	300	ASP	2.9
2	M	765	SER	2.9
2	C	563	ASN	2.9
2	C	1045	ALA	2.9
3	N	1450	ALA	2.9
5	F	246	ALA	2.9
3	D	726	ILE	2.9
2	M	741	GLY	2.9
1	K	76	VAL	2.9
1	L	151	VAL	2.9
2	C	904	PRO	2.9
3	N	956	ILE	2.9
2	C	619	ARG	2.9
3	N	115	LEU	2.9
2	C	78	PHE	2.9
3	D	189	GLN	2.9
2	C	38	LYS	2.9
2	C	230	ARG	2.8
2	C	648	ARG	2.8
2	M	563	ASN	2.8
2	M	532	MET	2.8
3	D	650	LEU	2.8
5	F	369	LEU	2.8
2	C	344	PHE	2.8
2	M	934	PHE	2.8
3	D	1008	PHE	2.8
2	M	515	ALA	2.8
1	B	135	GLY	2.8
2	C	353	ARG	2.8
3	N	66	GLN	2.8
1	B	91	ASN	2.8
2	C	895	TYR	2.8
2	C	534	VAL	2.8
2	M	723	THR	2.8
3	D	943	THR	2.8

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Mol	Chain	Res	Type	RSRZ
2	M	278	GLU	2.8
3	N	467	GLU	2.8
3	N	965	GLU	2.8
2	M	568	ALA	2.8
2	M	1012	PRO	2.8
2	M	895	TYR	2.8
2	C	871	LEU	2.8
2	M	871	LEU	2.8
2	M	963	LEU	2.8
3	D	899	LEU	2.8
2	C	976	ASP	2.8
2	M	606	VAL	2.8
3	D	1486	VAL	2.8
1	L	11	PHE	2.8
2	M	1044	GLY	2.8
1	L	9	PRO	2.8
2	C	959	PRO	2.8
2	M	1039	ALA	2.8
3	N	1225	ALA	2.8
5	F	412	GLU	2.8
2	M	802	ARG	2.8
1	A	142	VAL	2.8
1	B	171	PHE	2.8
3	D	1454	GLY	2.8
1	L	58	ILE	2.8
5	F	170	HIS	2.8
2	M	952	LEU	2.8
4	E	73	LEU	2.8
2	M	202	TYR	2.8
2	C	355	VAL	2.8
4	O	38	THR	2.8
2	M	906	PHE	2.8
3	D	1346	ARG	2.8
2	M	668	LEU	2.8
2	C	908	GLY	2.8
2	C	521	PRO	2.8
2	M	76	PRO	2.8
1	L	103	ALA	2.8
2	M	552	HIS	2.8
5	P	108	GLU	2.7
2	M	1040	LEU	2.7
3	N	652	LEU	2.7

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Mol	Chain	Res	Type	RSRZ
3	N	72	VAL	2.7
3	N	1048	PRO	2.7
3	N	1269	LYS	2.7
3	D	391	ALA	2.7
3	N	1309	ALA	2.7
2	C	107	LEU	2.7
3	N	1447	LEU	2.7
3	D	162	ARG	2.7
1	A	212	ASN	2.7
3	D	63	TYR	2.7
3	N	15	PRO	2.7
2	C	878	SER	2.7
3	D	59	ALA	2.7
3	D	96	ALA	2.7
3	N	608	SER	2.7
2	C	83	CYS	2.7
2	M	757	GLY	2.7
3	N	710	ARG	2.7
1	B	38	ASN	2.7
1	L	132	LEU	2.7
2	C	668	LEU	2.7
4	E	69	LEU	2.7
2	M	880	MET	2.7
3	D	564	GLU	2.7
2	C	256	TYR	2.7
2	M	6	PHE	2.7
5	F	81	VAL	2.7
5	F	109	GLY	2.7
5	P	298	GLY	2.7
3	D	467	GLU	2.7
4	E	43	GLU	2.7
2	C	787	ASP	2.7
5	F	174	LEU	2.7
4	E	42	PRO	2.7
5	P	314	PRO	2.7
1	K	144	VAL	2.7
2	C	867	VAL	2.7
2	M	286	SER	2.7
2	M	587	VAL	2.7
1	A	113	ASP	2.7
4	E	57	ASP	2.7
2	C	903	SER	2.7

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Mol	Chain	Res	Type	RSRZ
2	M	570	PRO	2.7
3	D	1039	CYS	2.7
3	D	1326	THR	2.7
2	C	127	PHE	2.7
3	D	895	VAL	2.7
3	D	1071	PHE	2.7
3	N	26	VAL	2.7
3	N	754	PHE	2.7
1	A	149	GLY	2.7
3	D	1277	ILE	2.7
1	L	80	LEU	2.7
1	B	201	THR	2.7
2	M	525	SER	2.7
3	N	1011	PHE	2.7
5	P	195	VAL	2.7
2	M	43	GLY	2.7
2	C	471	TYR	2.7
2	M	249	LYS	2.7
3	D	584	ASN	2.7
5	F	178	ARG	2.6
3	D	972	LEU	2.6
3	N	1311	LEU	2.6
2	C	684	PHE	2.6
4	E	11	GLY	2.6
2	C	418	LEU	2.6
1	K	46	SER	2.6
1	K	116	PRO	2.6
3	D	1439	SER	2.6
3	N	28	LYS	2.6
3	N	52	PRO	2.6
1	L	109	VAL	2.6
3	D	876	SER	2.6
3	D	14	SER	2.6
3	N	1359	GLN	2.6
5	P	78	SER	2.6
5	P	224	VAL	2.6
1	K	93	SER	2.6
1	L	145	ASP	2.6
1	L	211	LEU	2.6
2	M	619	ARG	2.6
2	M	898	GLY	2.6
3	D	115	LEU	2.6

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Mol	Chain	Res	Type	RSRZ
3	D	378	ILE	2.6
3	D	1328	GLY	2.6
3	D	1384	PRO	2.6
3	N	623	VAL	2.6
3	N	760	ARG	2.6
5	F	140	ARG	2.6
1	B	21	GLY	2.6
4	E	83	ASP	2.6
1	B	101	LEU	2.6
2	M	217	LEU	2.6
3	D	563	PRO	2.6
3	D	1041	LEU	2.6
3	D	666	ILE	2.6
3	N	53	ILE	2.6
4	E	67	GLU	2.6
2	M	1116	ALA	2.6
1	A	53	VAL	2.5
3	D	1479	ASP	2.5
2	C	156	GLY	2.5
2	C	875	GLY	2.5
2	M	7	GLY	2.5
3	D	768	ASN	2.5
2	M	1115	LEU	2.5
2	M	569	VAL	2.5
3	D	1224	VAL	2.5
3	N	583	ASP	2.5
3	D	1308	GLU	2.5
3	D	868	TYR	2.5
1	B	206	THR	2.5
3	D	187	LYS	2.5
1	K	140	MET	2.5
3	N	766	ALA	2.5
1	L	220	GLU	2.5
3	N	25	GLU	2.5
1	A	147	GLY	2.5
3	N	1275	SER	2.5
5	P	156	VAL	2.5
3	N	1479	ASP	2.5
3	D	759	ALA	2.5
5	F	199	ALA	2.5
1	B	23	PHE	2.5
2	M	62	GLY	2.5

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Mol	Chain	Res	Type	RSRZ
3	D	68	PHE	2.5
2	M	823	VAL	2.5
2	M	869	VAL	2.5
3	N	1200	VAL	2.5
5	F	156	VAL	2.5
3	N	957	PRO	2.5
1	K	99	LEU	2.5
3	N	1132	LEU	2.5
5	F	210	LEU	2.5
1	A	223	THR	2.5
3	D	887	ALA	2.5
3	N	228	ALA	2.5
1	A	15	THR	2.5
2	M	108	ILE	2.5
2	C	62	GLY	2.5
3	N	162	ARG	2.5
3	D	1275	SER	2.5
5	F	401	GLU	2.5
3	N	202	VAL	2.5
3	N	633	VAL	2.5
3	N	1487	VAL	2.5
3	D	652	LEU	2.5
4	O	40	LEU	2.5
5	F	354	LEU	2.5
1	L	201	THR	2.5
2	C	985	GLY	2.5
2	M	471	TYR	2.5
3	D	1329	ALA	2.5
2	M	699	PHE	2.4
2	M	843	HIS	2.4
2	C	296	GLY	2.4
2	M	601	GLY	2.4
3	D	61	GLY	2.4
3	D	999	THR	2.4
3	D	1138	ALA	2.4
3	N	1428	ALA	2.4
2	M	462	ASP	2.4
1	L	143	ARG	2.4
2	C	612	VAL	2.4
2	C	1006	HIS	2.4
2	M	647	GLN	2.4
2	M	602	GLU	2.4

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Mol	Chain	Res	Type	RSRZ
5	F	305	GLU	2.4
5	P	107	GLU	2.4
2	C	831	ARG	2.4
3	N	781	PRO	2.4
2	M	69	LEU	2.4
2	M	882	LEU	2.4
5	P	296	GLY	2.4
3	D	626	SER	2.4
3	D	469	ASP	2.4
2	M	925	TYR	2.4
2	M	926	PHE	2.4
1	K	53	VAL	2.4
2	C	588	VAL	2.4
3	D	498	VAL	2.4
3	D	178	LEU	2.4
1	L	200	TRP	2.4
2	M	868	ASP	2.4
3	N	968	ASP	2.4
2	M	733	ALA	2.4
3	D	1225	ALA	2.4
2	C	773	LEU	2.4
3	D	691	LEU	2.4
3	N	650	LEU	2.4
3	D	28	LYS	2.4
2	C	660	ALA	2.4
2	C	677	MET	2.4
5	P	297	PRO	2.4
2	C	8	ARG	2.4
2	C	805	ARG	2.4
2	M	743	VAL	2.4
3	D	409	VAL	2.4
1	B	210	ALA	2.4
1	L	207	PRO	2.3
3	D	77	GLY	2.3
4	O	5	GLY	2.3
3	D	169	TYR	2.3
3	D	1158	VAL	2.3
1	A	140	MET	2.3
2	C	1090	LYS	2.3
3	N	422	ALA	2.3
3	N	715	ALA	2.3
2	M	383	ARG	2.3

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Mol	Chain	Res	Type	RSRZ
2	M	420	ARG	2.3
3	D	222	GLY	2.3
2	C	531	PHE	2.3
3	D	535	PHE	2.3
1	A	86	VAL	2.3
3	D	728	LEU	2.3
5	F	116	LEU	2.3
2	M	516	ARG	2.3
2	C	1042	ALA	2.3
2	M	128	ILE	2.3
3	D	757	ALA	2.3
3	N	726	ILE	2.3
5	P	345	ALA	2.3
2	M	111	ASP	2.3
3	D	1489	GLN	2.3
3	N	1410	GLU	2.3
2	M	922	PHE	2.3
2	M	651	LYS	2.3
1	A	226	SER	2.3
3	N	1435	LEU	2.3
2	C	941	VAL	2.3
2	C	704	HIS	2.3
3	N	41	ARG	2.3
2	C	106	GLY	2.3
5	F	216	GLY	2.3
1	K	129	ILE	2.3
1	K	158	ILE	2.3
2	C	124	ASP	2.3
2	M	70	GLU	2.3
3	D	52	PRO	2.3
3	D	1297	GLU	2.3
5	F	97	GLU	2.3
4	O	55	PHE	2.3
1	A	99	LEU	2.3
2	C	143	SER	2.3
2	C	392	SER	2.3
3	D	681	ARG	2.3
3	N	1036	ARG	2.3
4	O	13	VAL	2.3
1	L	29	GLU	2.3
2	M	764	GLU	2.3
2	M	660	ALA	2.3

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Mol	Chain	Res	Type	RSRZ
2	C	626	ARG	2.3
5	F	104	ARG	2.3
2	M	392	SER	2.3
3	N	753	SER	2.3
3	N	421	LEU	2.3
3	D	560	GLN	2.3
2	C	951	GLY	2.3
3	D	64	LYS	2.3
3	N	878	GLY	2.3
5	P	196	VAL	2.3
2	M	132	ALA	2.3
5	P	367	MET	2.3
5	P	189	GLU	2.3
3	D	1005	GLN	2.3
1	L	195	LEU	2.3
3	D	1339	LYS	2.3
3	D	1490	LYS	2.3
2	C	825	VAL	2.3
2	M	939	ARG	2.3
2	M	850	ALA	2.2
3	D	976	GLN	2.2
3	N	569	ASN	2.2
2	C	241	LEU	2.2
3	D	204	LEU	2.2
3	D	1040	GLY	2.2
2	C	5	ARG	2.2
2	M	645	VAL	2.2
3	D	578	VAL	2.2
2	M	909	ALA	2.2
5	F	194	LEU	2.2
1	B	39	PRO	2.2
1	A	58	ILE	2.2
1	K	74	ASP	2.2
3	N	197	SER	2.2
5	F	160	ASP	2.2
5	F	175	HIS	2.2
1	K	225	PHE	2.2
2	M	239	PHE	2.2
3	D	658	LEU	2.2
3	N	621	LYS	2.2
3	N	1305	LEU	2.2
5	F	418	LEU	2.2

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Mol	Chain	Res	Type	RSRZ
2	C	975	TYR	2.2
2	M	135	VAL	2.2
2	M	989	VAL	2.2
3	N	590	PRO	2.2
2	C	29	ALA	2.2
3	D	807	ALA	2.2
4	O	64	ALA	2.2
3	N	1130	ARG	2.2
1	K	65	PHE	2.2
4	E	54	LEU	2.2
1	K	98	THR	2.2
3	D	707	THR	2.2
2	M	1036	GLU	2.2
3	D	413	ASP	2.2
3	N	158	TYR	2.2
3	D	414	ARG	2.2
3	N	243	ALA	2.2
2	C	129	ILE	2.2
3	D	596	SER	2.2
3	D	1293	PHE	2.2
5	F	209	PHE	2.2
5	P	347	GLN	2.2
2	C	913	GLU	2.2
1	L	72	LYS	2.2
2	C	570	PRO	2.2
2	C	698	ASP	2.2
2	M	188	LYS	2.2
1	L	8	ALA	2.2
3	N	963	TYR	2.2
3	D	992	ILE	2.2
2	M	37	GLU	2.2
3	D	476	GLU	2.2
1	B	200	TRP	2.2
1	L	82	LEU	2.2
2	C	952	LEU	2.2
3	N	1209	LEU	2.2
1	A	215	VAL	2.1
2	M	756	VAL	2.1
2	C	456	ALA	2.1
3	D	648	MET	2.1
3	N	205	TYR	2.1
4	E	53	GLY	2.1

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Mol	Chain	Res	Type	RSRZ
1	A	123	MET	2.1
5	F	157	GLU	2.1
3	D	102	ILE	2.1
2	M	533	ASP	2.1
2	C	399	ASN	2.1
2	C	444	PRO	2.1
3	N	996	TRP	2.1
3	D	925	GLU	2.1
2	C	835	VAL	2.1
1	B	194	LYS	2.1
2	C	532	MET	2.1
3	N	1008	PHE	2.1
4	E	40	LEU	2.1
2	C	439	CYS	2.1
2	C	954	THR	2.1
4	O	96	GLU	2.1
5	F	346	THR	2.1
1	A	210	ALA	2.1
2	M	250	ARG	2.1
5	F	100	VAL	2.1
3	D	963	TYR	2.1
2	M	1041	GLU	2.1
1	L	124	ASN	2.1
1	B	208	LEU	2.1
2	M	391	LEU	2.1
3	N	1095	THR	2.1
2	M	878	SER	2.1
1	L	56	VAL	2.1
3	N	179	VAL	2.1
4	E	39	VAL	2.1
2	M	948	GLU	2.1
2	C	94	LEU	2.1
2	C	134	ARG	2.1
3	D	981	GLY	2.1
3	N	712	GLY	2.1
3	N	818	ARG	2.1
4	O	67	GLU	2.1
2	C	229	MET	2.1
3	N	648	MET	2.1
3	D	1359	GLN	2.1
2	C	458	TYR	2.1
2	M	975	TYR	2.1

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Mol	Chain	Res	Type	RSRZ
1	K	89	PHE	2.1
1	L	45	LEU	2.1
1	L	208	LEU	2.1
2	C	48	PHE	2.1
3	D	905	PRO	2.1
1	A	29	GLU	2.1
2	C	821	GLU	2.1
3	D	798	GLU	2.1
3	N	47	GLU	2.1
2	M	161	SER	2.1
3	D	1228	SER	2.1
3	N	64	LYS	2.1
5	F	302	LYS	2.1
3	D	1319	VAL	2.1
2	C	992	MET	2.1
2	C	472	ARG	2.1
2	C	68	PHE	2.1
2	C	264	PRO	2.1
1	A	51	THR	2.1
5	P	160	ASP	2.1
1	L	139	ASN	2.0
2	C	213	ALA	2.0
3	N	1451	ALA	2.0
2	C	611	ILE	2.0
2	C	902	ILE	2.0
1	B	82	LEU	2.0
1	L	20	TYR	2.0
3	D	465	LEU	2.0
3	D	677	LEU	2.0
3	N	657	LEU	2.0
3	N	14	SER	2.0
2	C	45	GLN	2.0
2	C	1061	GLU	2.0
2	M	463	GLU	2.0
3	D	814	ALA	2.0
3	D	1272	ALA	2.0
2	M	612	VAL	2.0
3	D	709	HIS	2.0
3	D	1322	GLY	2.0
3	D	1333	HIS	2.0
3	D	103	TRP	2.0
1	A	160	ASP	2.0

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Mol	Chain	Res	Type	RSRZ
2	M	363	SER	2.0
3	D	1011	PHE	2.0
2	C	210	GLU	2.0
2	M	472	ARG	2.0
2	M	506	ASN	2.0
1	K	97	VAL	2.0
3	D	1344	VAL	2.0
3	D	1035	ILE	2.0
3	N	962	GLN	2.0
1	K	85	LEU	2.0
2	C	1009	SER	2.0
2	M	174	LEU	2.0
3	N	691	LEU	2.0
3	N	914	LEU	2.0
3	D	1318	TYR	2.0

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

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

6.3 Carbohydrates [i](#)

There are no carbohydrates in this entry.

6.4 Ligands [i](#)

In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. LLDF column lists the quality of electron density of the group with respect to its neighbouring residues in protein, DNA or RNA chains. The B-factors column lists the minimum, median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists the number of atoms with occupancy less than 0.9.

Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(Å ²)	Q<0.9
6	STD	N	8002	43/43	0.76	0.15	0.05	27,35,41,48	0
6	STD	D	8001	43/43	0.86	0.13	-0.38	25,35,40,43	0
7	ZN	N	7413	1/1	0.99	0.11	-0.94	65,65,65,65	0
7	ZN	D	7412	1/1	0.99	0.06	-1.46	58,58,58,58	0
7	ZN	N	7459	1/1	0.95	0.10	-1.63	64,64,64,64	0
7	ZN	D	7458	1/1	0.99	0.09	-2.30	64,64,64,64	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
8	MG	D	9001	1/1	0.94	0.19	-	29,29,29,29	0
8	MG	N	9002	1/1	0.88	0.51	-	53,53,53,53	0

6.5 Other polymers [i](#)

There are no such residues in this entry.