



# Full wwPDB X-ray Structure Validation Report ⓘ

Feb 1, 2016 – 12:44 AM GMT

PDB ID : 2BE5  
Title : Crystal structure of the T. Thermophilus RNA polymerase holoenzyme in complex with inhibitor tagetitoxin  
Authors : Vassylyev, D.G.; Svetlov, V.; Vassylyeva, M.N.; Perederina, A.; Igarashi, N.; Matsugaki, N.; Wakatsuki, S.; Artsimovitch, I.; RIKEN Structural Genomics/Proteomics Initiative (RSGI)  
Deposited on : 2005-10-22  
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](mailto: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.

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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

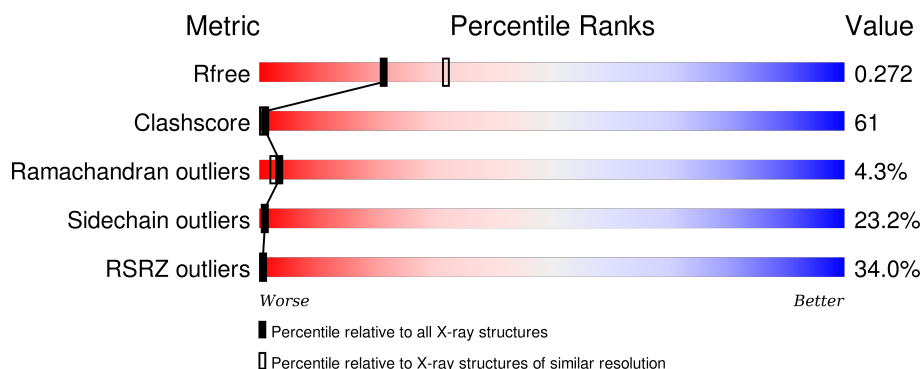
# 1 Overall quality at a glance

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  $\geq 3$ , 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>23%</div> <div>14% 45% 12% 27%</div> </div>
1	B	315	<div> <div>26%</div> <div>18% 44% 10% 27%</div> </div>
1	K	315	<div> <div>23%</div> <div>18% 43% 11% 27%</div> </div>
1	L	315	<div> <div>23%</div> <div>15% 45% 12% 27%</div> </div>
2	C	1119	<div> <div>38%</div> <div>23% 58% 18%</div> </div>

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Mol	Chain	Length	Quality of chain
2	M	1119	
3	D	1524	
3	N	1524	
4	E	99	
4	O	99	
5	F	423	
5	P	423	

The following table lists non-polymeric compounds, carbohydrate monomers and non-standard residues in protein, DNA, RNA chains that are outliers for geometric or electron-density-fit criteria:

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
8	TGT	D	9001	-	-	-	X
8	TGT	N	9002	-	-	-	X

## 2 Entry composition

There are 9 unique types of molecules in this entry. The entry contains 61800 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	1392	Total	C	N	O	S	0	0	0
			10797	6819	1925	2020	33			
3	N	1392	Total	C	N	O	S	0	0	0
			10797	6819	1925	2020	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	0
			2771	1744	504	519	4			
5	P	345	Total	C	N	O	S	0	0	0
			2771	1744	504	519	4			

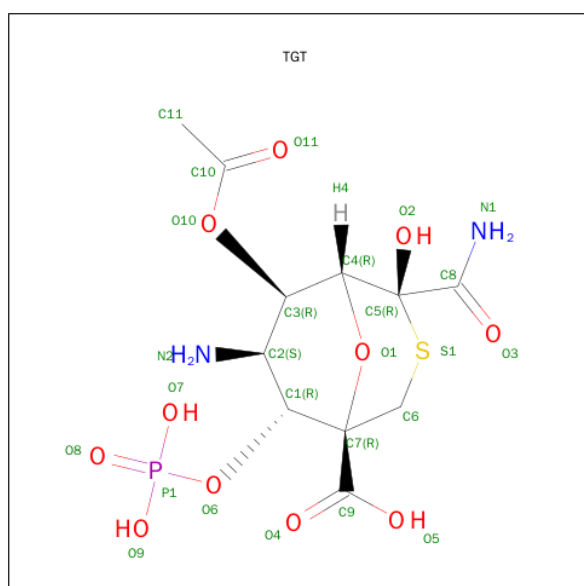
- Molecule 6 is MAGNESIUM ION (three-letter code: MG) (formula: Mg).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
6	D	1	Total	Mg	0	0
			1	1		
6	C	1	Total	Mg	0	0
			1	1		
6	N	2	Total	Mg	0	0
			2	2		

- 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 TAGETITOXIN (three-letter code: TGT) (formula: C<sub>11</sub>H<sub>17</sub>N<sub>2</sub>O<sub>11</sub>PS).



Mol	Chain	Residues	Atoms						ZeroOcc	AltConf
8	D	1	Total	C	N	O	P	S	0	0
			26	11	2	11	1	1		
8	N	1	Total	C	N	O	P	S	0	0
			26	11	2	11	1	1		

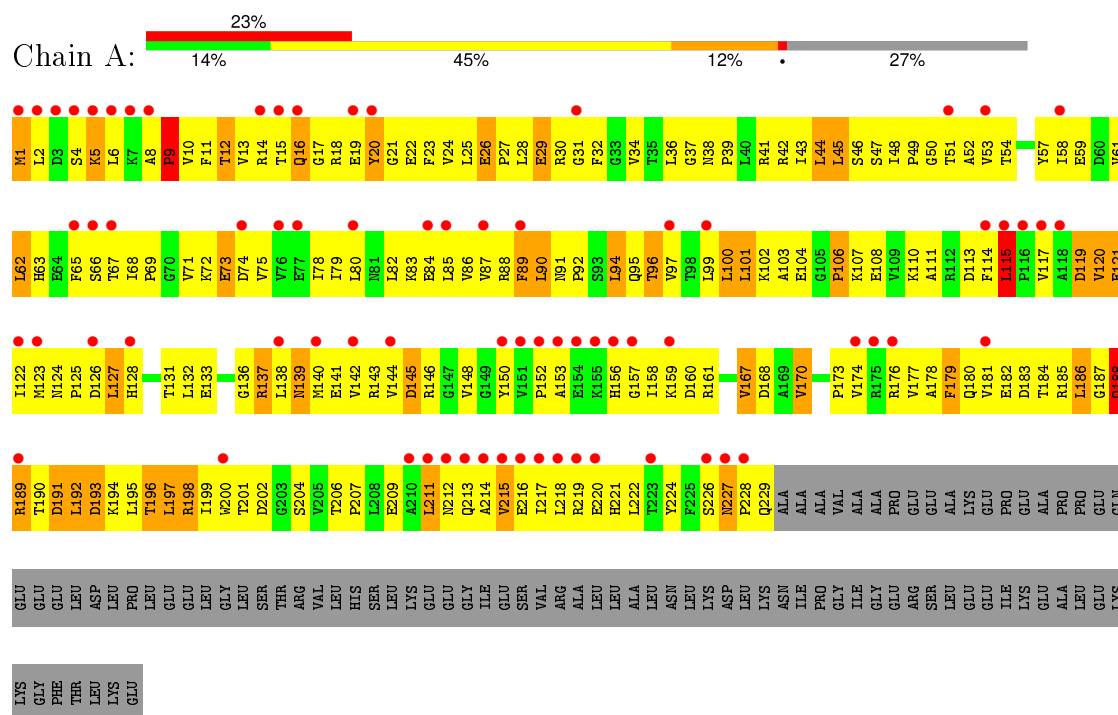
- Molecule 9 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
9	A	250	Total	O	0	0
			250	250		
9	B	329	Total	O	0	0
			329	329		
9	C	1321	Total	O	0	0
			1321	1321		
9	D	1655	Total	O	0	0
			1655	1655		
9	E	176	Total	O	0	0
			176	176		
9	F	519	Total	O	0	0
			519	519		
9	K	278	Total	O	0	0
			278	278		
9	L	309	Total	O	0	0
			309	309		
9	M	1236	Total	O	0	0
			1236	1236		
9	N	1552	Total	O	0	0
			1552	1552		
9	O	137	Total	O	0	0
			137	137		
9	P	422	Total	O	0	0
			422	422		

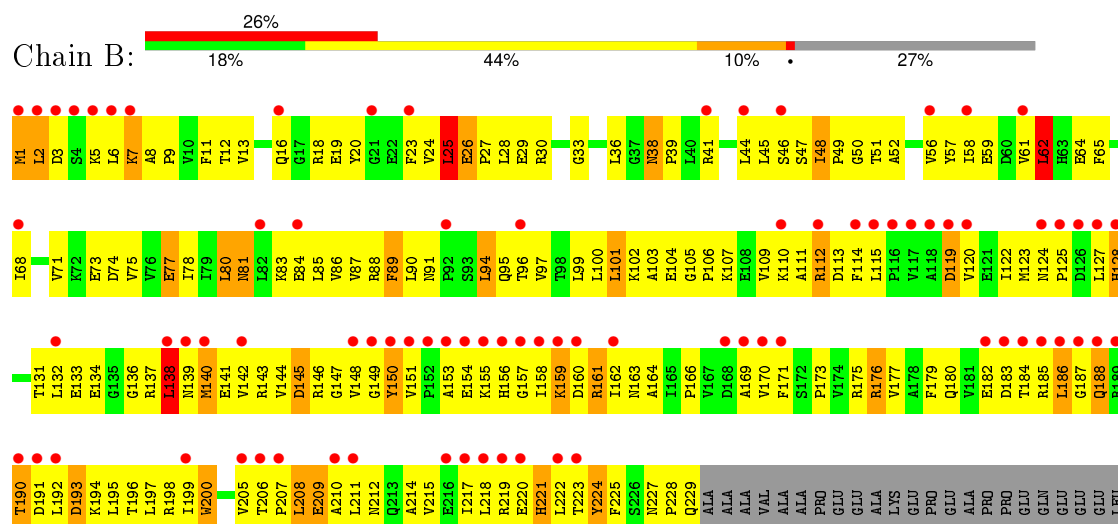
### 3 Residue-property plots

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



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- Molecule 1: DNA-directed RNA polymerase alpha chain

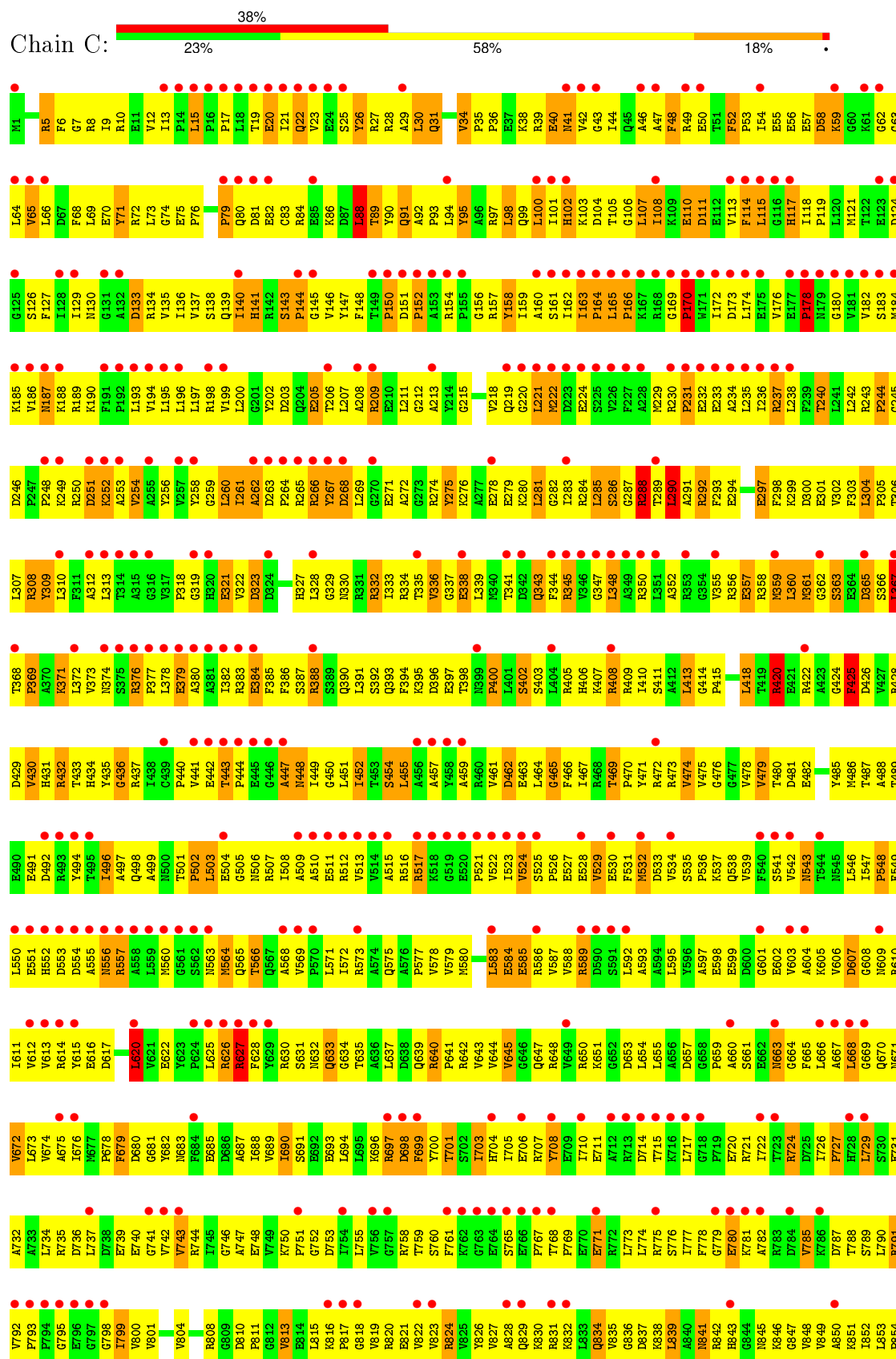
- Molecule 1: DNA-directed RNA polymerase alpha chain

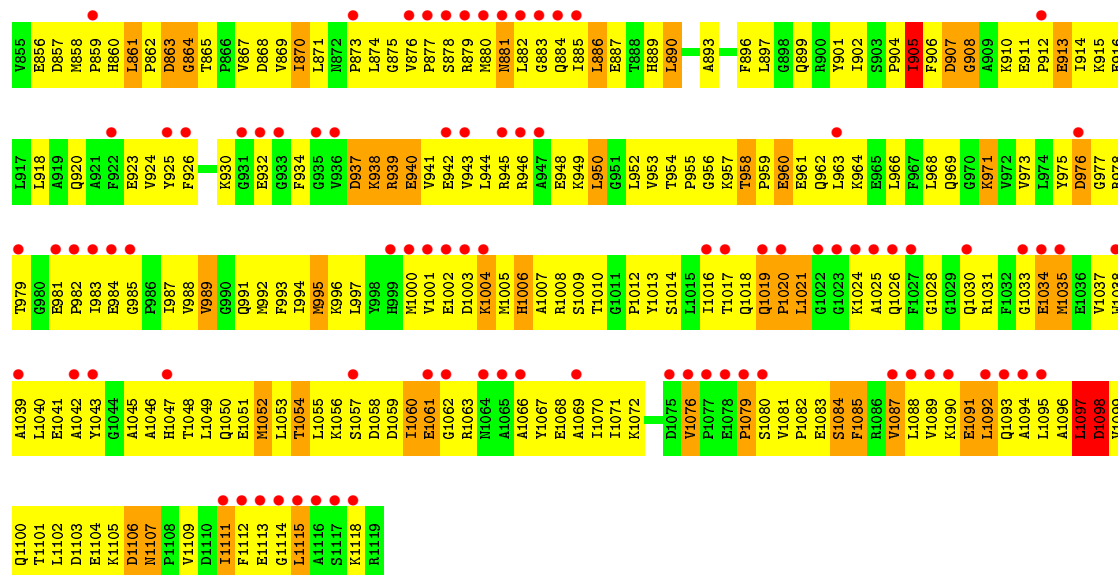




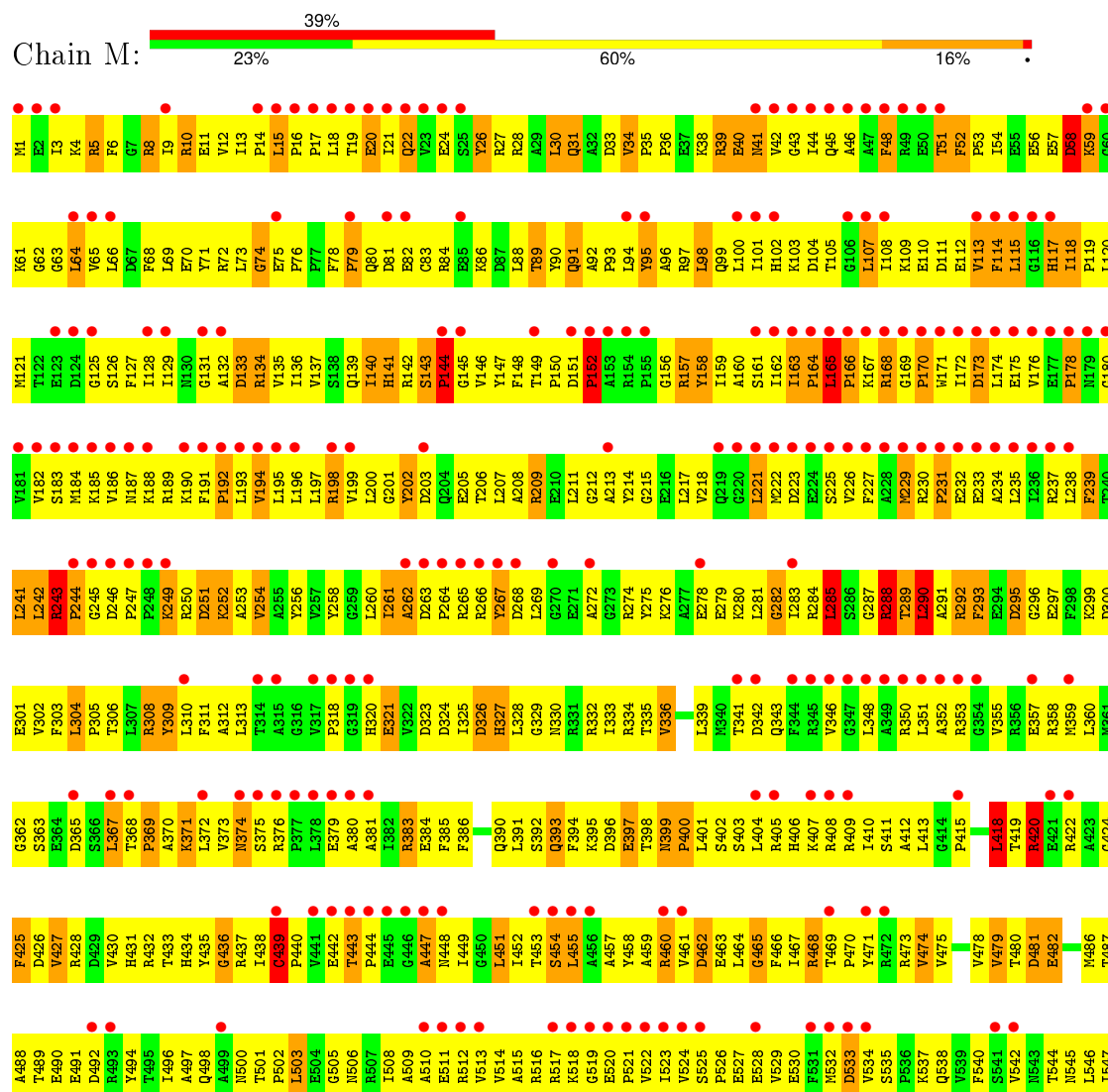
● Molecule 2: DNA-directed RNA polymerase beta chain

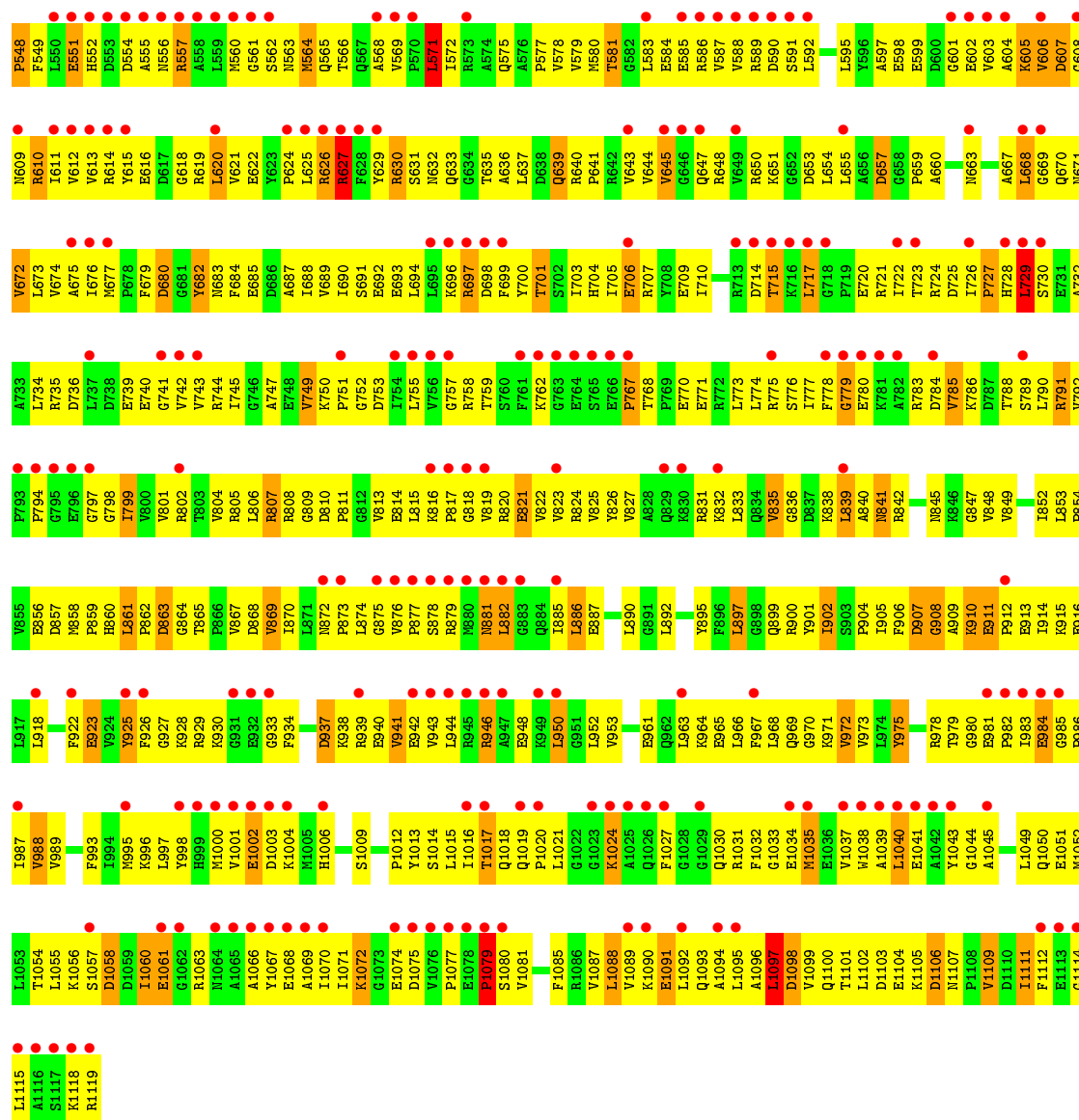
Chain C:



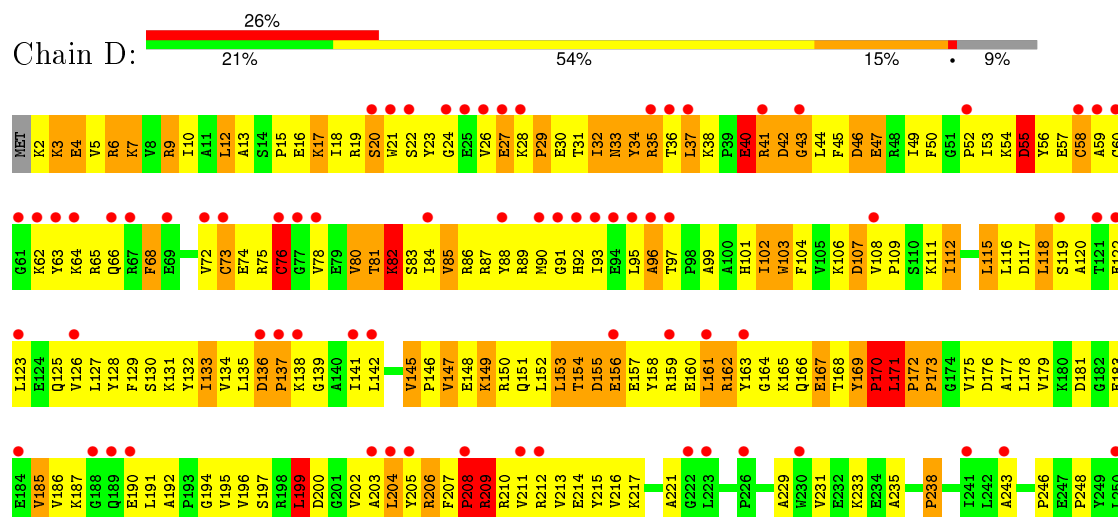


• Molecule 2: DNA-directed RNA polymerase beta chain

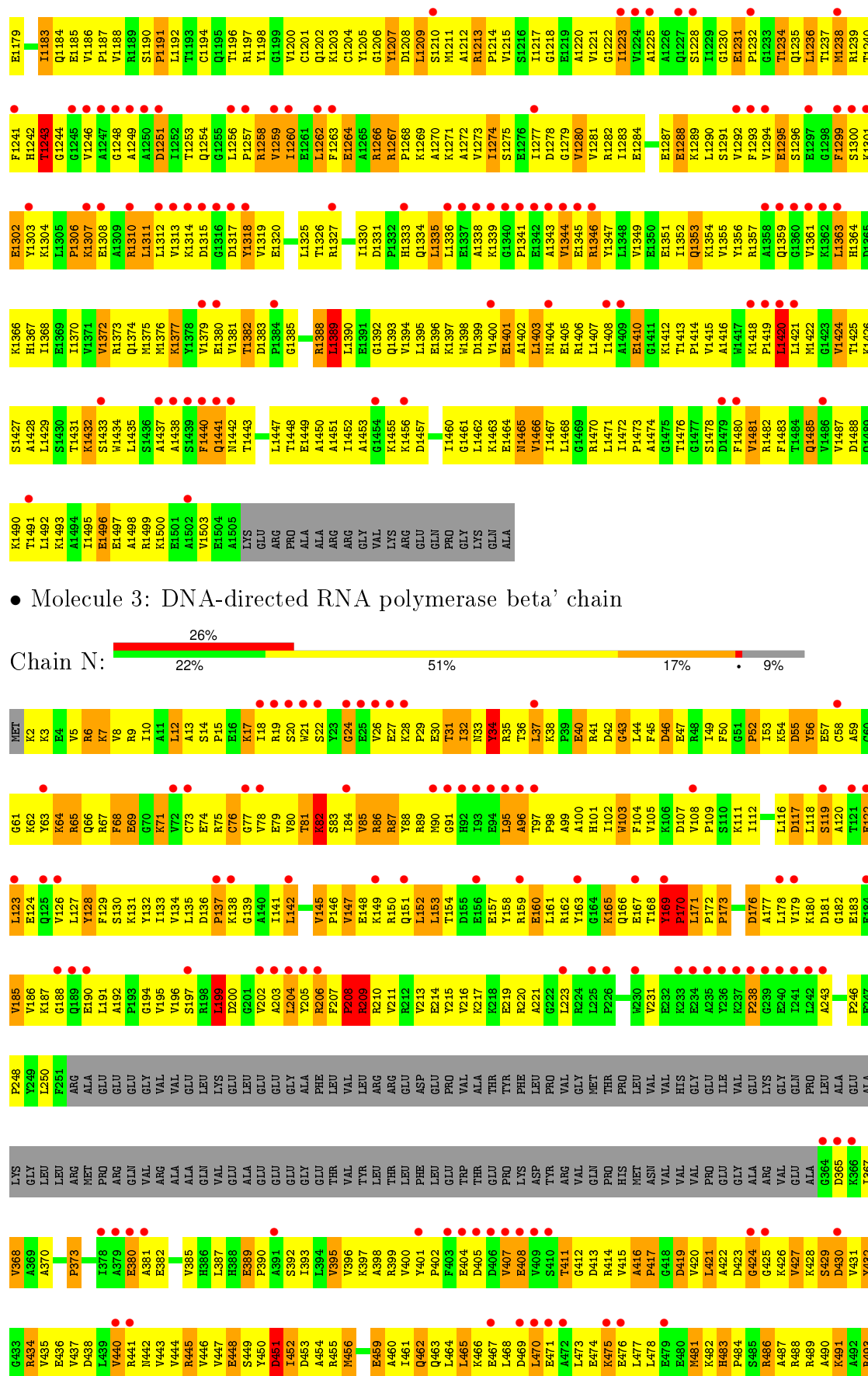




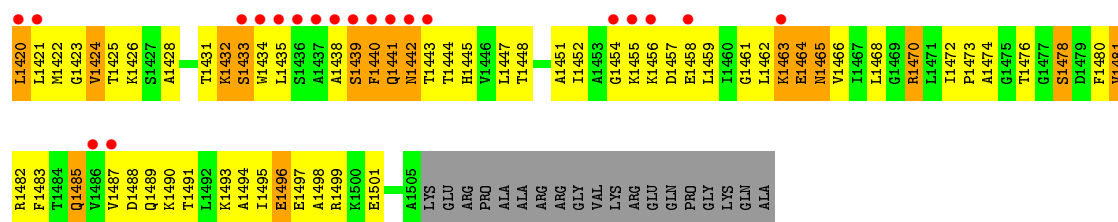
• Molecule 3: DNA-directed RNA polymerase beta' chain



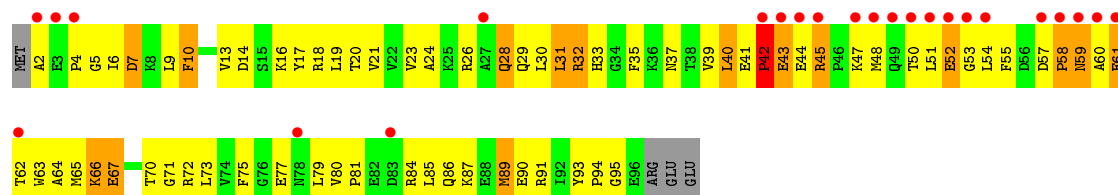
M1116	E1054	K926	V863	G803	D741	R679	M617	L557	I496	V435	P373	F251
Y1117	V1055	T927	V864	L804	G742	Q690	L618	L558	E497	E436	P374	ARG
I1118	P1056	A928	V865	E805	D743	R681	L619	A559	V498	V437	E374	ALA
S1119	V1057	R929	V866	F806	Q744	D682	G620	Q560	V499	D438		GLU
P1120	R1058	L930	R867	A907	M745	L683	K621	R500	R500	L439	V377	GLU
P1121	S1059	L931	V868	T808	A746	K684	R622	G561	A501	V440	I378	GLU
L1122	S1060	D932	R869	P809	A747	D685	V623	A562	P502	R441	A379	GLY
F1123	F1061	A933	G870	E810	H748	E686	D624	P563	L503	M442	E380	VAL
T1000	T1062	L934	R871	E811	V749	V687	G625	E564	D504	V443	E381	VAL
E1063	E1063	R935	R872	A812	P750	V688	S626	I566	S505	V444	E382	ALA
L1064	L1064	V936	L873	L813	L751	D689	G627	I567	S505	R445		GLU
L1065	V1003	V937	E874	A814	S752	L690	R628	R568	S506	V446	V385	LYS
L1066	T1004	G938	R875	A815	S753	L691	S629	R569	R508	V447	V386	GLU
V1067	Q1005	P939	S876	H816	F754	E682	V630	E570	P509	E448	L387	LEU
L1068	A1006	T940	R877	E817	F755	E683	L631	K571	E510	S449	L388	ALA
E1069	E1069	F941	G878	R818	Q756	V694	V632	R572	E511	V450	E389	GLU
F1070	F1070	S942	R879	G819	A757	L695	G633	M574	M512	D451	P390	GLY
L1071	F1071	T943	L880	E820	E758	H697	G634	L573	I513	L452	A391	ALA
L1072	T944	T944	L881	V821	A759	G697	P635	Q575	D453	L453	S392	PHE
S1073	F882	S945	F882	A822	R760	K698	Q636	E576	A454	A454	I393	LEU
S1074	G946	G946	R883	L823	L761	V699	L637	A517	V517	R455	L394	VAL
H1075	T947	T947	R884	N824	Q762	V700	K638	V578	P518	V395	V395	LEU
G1076	T948	T948	R885	A825	M763	L701	L639	D579	V519	V396	V396	ARG
A1077	T949	T949	V886	P826	L764	L702	H640	A580	L520	K397	K397	ARG
G950	G950	G950	V886	I827	S765	N703	Q641	L581	P521	E459	A398	GLU
I951	I951	I951	V890	K828	A766	R704	C642	L582	P522	L460	K399	ASP
D952	D952	D952	E893	V829	H767	A705	G643	D583	D523	L461	V400	LEU
L953	L953	L953	R894	A830	N768	P706	L644	N584	L524	Q463	V401	GLU
A954	A954	A954	G831	R832	L770	L707	P645	G585	R525	L464	P402	VAL
V955	V955	V955	V895	R832	L770	L708	K646	R586	P526	L465	F403	ALA
L1086	L1086	L1086	A896	E833	S771	H709	R647	R587	M527	K466	E404	THR
R1087	R1087	P957	R897	T834	P772	R710	M643	G588	V528	E467	D405	TYR
L1088	L1088	E986	S1026	S835	E776	L711	A649	A589	Q529	L468	D405	PHE
E1089	E1089	E986	L899	G837	G775	L711	L650	P590	V530	L469	V407	LEU
D1090	D1090	R960	L900	R838	E776	L711	E651	V591	D531	L470	V407	PRO
S1091	S1091	K961	Q901	R838	P777	L711	L652	T592	E471	L470	V409	VAL
G1092	G1092	Q962	L902	L839	E777	L711	P653	G533	G533	A472	S410	GLY
V1093	V1093	V963	P903	K840	L778	L711	P655	P594	R534	L473	T411	MET
L1094	L1094	L964	V904	E841				S396	A536	E474	G412	THR
T1095	T1095	E965	P905	V842	S782	L721	F656	D597	A536	E476	G413	PRO
R1096	R1096	Q966	R906	F843	R783	E722	L657	R598	T537	L477	R414	NET
K1097	K1097	A967	E907	A844	E722	L728	L658	R598	S538	L477	V415	VAL
L1098	L1098	D968	N908	P845	D784	G723	K659	P599	D539	L478	R416	VAL
V1099	V1099	R969	R909	P846	I785	Q734	K660	L600	L540	E479	P417	HIS
D1100	D1100	K970	S910	D847	I786	S725	M661	R601	N541	E480	G418	GLY
V1101	V1101	L971	L911	E848	L787	L726	E662	S602	D542	N481	L421	PRO
T1102	T1102	L972	R912	A849	G788	Q727	E663	L603	L543	K482	A422	ILE
L1103	L1103	Q973	D913	L850	L789	L728	T804	T804	L603	P483	D423	VAL
E1104	E1104	R1042	L914	L851	Y790	H729	I666	D605	R545	P484	D423	GLU
L1105	L1105	E976	V915	A852	Y791	P730	A667	I606	R546	S485	G424	LYS
V1106	V1106	Q976	V916	V853	I792	L731	P668	L607	L547	R486	G425	VAL
L1107	L1107	E979	Q917	A854	T793	V732	M669	S608	L548	A487	K426	GLU
R1108	R1108	Q918	H855	H855	Q794	C733	V670	G609	N549	R488	V427	ALA
E1109	E1109	F919	G956	G956	V795	E734	K671	K610	R550	R489	K428	PRO
A1110	A1110	P1048	L933	L857	R796	A735	A672	Q611	N551	A490	S429	ALA
D1111	D1111	T984	R921	V858	K797	F736		G612	N552	K491	D430	GLU
L1174	L1174	T984	R921	V858	K797	F736		G612	N552	K491	D430	ALA
L1175	L1175	T984	R921	V858	K797	F736		G612	N552	K491	D430	ALA
G1112	G1112	T984	R921	V858	K797	F736		G612	N552	K491	D430	ALA
G1113	G1113	T984	R921	V858	K797	F736		G612	N552	K491	D430	ALA
T1114	T1114	T984	R921	V858	K797	F736		G612	N552	K491	D430	ALA
A1177	A1177	T984	R921	V858	K797	F736		G612	N552	K491	D430	ALA
L1178	L1178	T984	R921	V858	K797	F736		G612	N552	K491	D430	ALA
A1179	A1179	T984	R921	V858	K797	F736		G612	N552	K491	D430	ALA
A1180	A1180	T984	R921	V858	K797	F736		G612	N552	K491	D430	ALA
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A1182	A1182	T984	R921	V858	K797	F736		G612	N552	K491	D430	ALA
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A1185	A1185	T984	R921	V858	K797	F736		G612	N552	K491	D430	ALA
A1186	A1186	T984	R921	V858	K797	F736		G612	N552	K491	D430	ALA
A1187	A1187	T984	R921	V858	K797	F736		G612	N552	K491	D430	ALA
A1188	A1188	T984	R921	V858	K797	F736		G612	N552	K491	D430	ALA
A1189	A1189	T984	R921	V858	K797	F736		G612	N552	K491	D430	ALA
A1190	A1190	T984	R921	V858	K797	F736		G612	N552	K491	D430	ALA
A1191	A1191	T984	R921	V858	K797	F736		G612	N552	K491	D430	ALA
A1192	A1192	T984	R921	V858	K797	F736		G612	N552	K491	D430	ALA
A1193	A1193	T984	R921	V858	K797	F736		G612	N552	K491	D430	ALA
A1194	A1194	T984	R921	V858	K797	F736		G612	N552	K491	D430	ALA
A1195	A1195	T984	R921	V858	K797	F736		G612	N552	K491	D430	ALA
A1196	A1196	T984	R921	V858	K797	F736		G612	N552	K491	D430	ALA
A1197	A1197	T984	R921	V858	K797	F736		G612	N552	K491	D430	ALA
A1198	A1198	T984	R921	V858	K797	F736		G612	N552	K491	D430	ALA
A1199	A1199	T984	R921	V858	K797	F736		G612	N552	K491	D430	ALA
A1200	A1200	T984	R921	V858	K797	F736		G612	N552	K491	D430	ALA
A1201	A1201	T984	R921	V858	K797	F736		G612	N552	K491	D430	ALA
A1202	A1202	T984	R921	V858	K797	F736		G612	N552	K491	D430	ALA
A1203	A1203	T984	R921	V858	K797	F736		G612	N552	K491	D430	ALA
A1204	A1204	T984	R921	V858	K797	F736		G612	N552	K491	D430	ALA
A1205	A1205	T984	R921	V858	K797	F736		G612	N552	K491	D430	ALA
A1206	A1206	T984	R921	V858	K797	F736		G612	N552	K491	D430	ALA
A1207	A1207	T984	R921	V858	K797	F736		G612	N552	K491	D430	ALA
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A1209	A1209	T984	R921	V858	K797	F736		G612	N552	K491	D430	ALA
A1210	A1210	T984	R921	V858	K797	F736		G612	N552	K491	D430	ALA
A1211	A1211	T984	R921	V858	K797	F736		G612	N552	K491	D430	ALA
A1212	A1212	T984	R921	V858	K797	F736		G612	N552	K491	D430	ALA
A1213	A1213	T984	R921	V858	K797	F736		G612	N552	K491	D430	ALA
A1214	A1214	T984	R921	V858	K797	F736		G612	N552	K491	D430	ALA
A1215	A1215	T984	R921	V858	K797	F736		G612	N552	K491	D430	ALA
A1216	A1216	T984	R921	V858	K797	F736		G612	N552	K491	D430	ALA
A1217	A1217	T984	R921	V858	K797	F736		G612	N552	K491	D430	ALA
A1218	A1218	T984	R921	V858	K797	F736		G612	N552	K491	D430	ALA
A1219	A1219	T984	R921	V858	K797	F736		G612	N552	K491	D430	ALA
A1220	A1220	T984	R921	V858	K797	F736		G612	N552	K491	D430	ALA
A1221	A1221	T984	R921	V858	K797	F736		G612	N552	K491	D430	ALA
A1222	A1222	T984	R921	V858	K797	F736		G612	N552	K491	D430	ALA
A1223	A1223	T984	R921	V858	K797	F736		G612	N552	K491	D430	ALA
A1224	A1224	T984	R921	V858	K797	F736		G612	N552	K491	D430	ALA
A1225	A1225	T984	R921	V858	K797	F736		G612	N552	K491	D430	ALA
A1226	A1226	T984	R921	V858	K797	F736		G612	N552	K491	D430	ALA
A1227	A1227	T984	R921	V858	K797	F736		G612	N552	K491	D430	ALA
A1228	A1228	T984	R921	V858	K797	F736		G612	N552	K491	D430	ALA
A1229	A1229	T984	R921	V858	K797	F736		G612	N552	K491	D430	ALA
A1230	A1230	T984	R921	V858	K797	F736		G612	N552	K491	D430	ALA
A1231	A1231	T984	R921	V858	K797	F736						



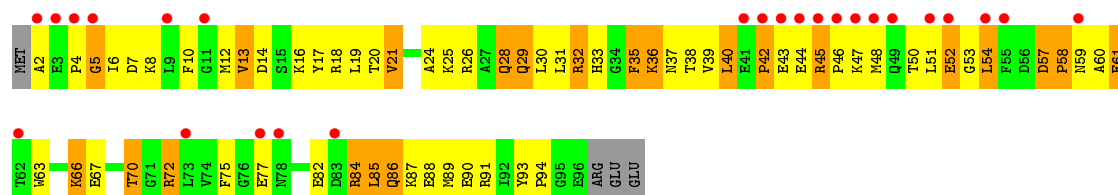




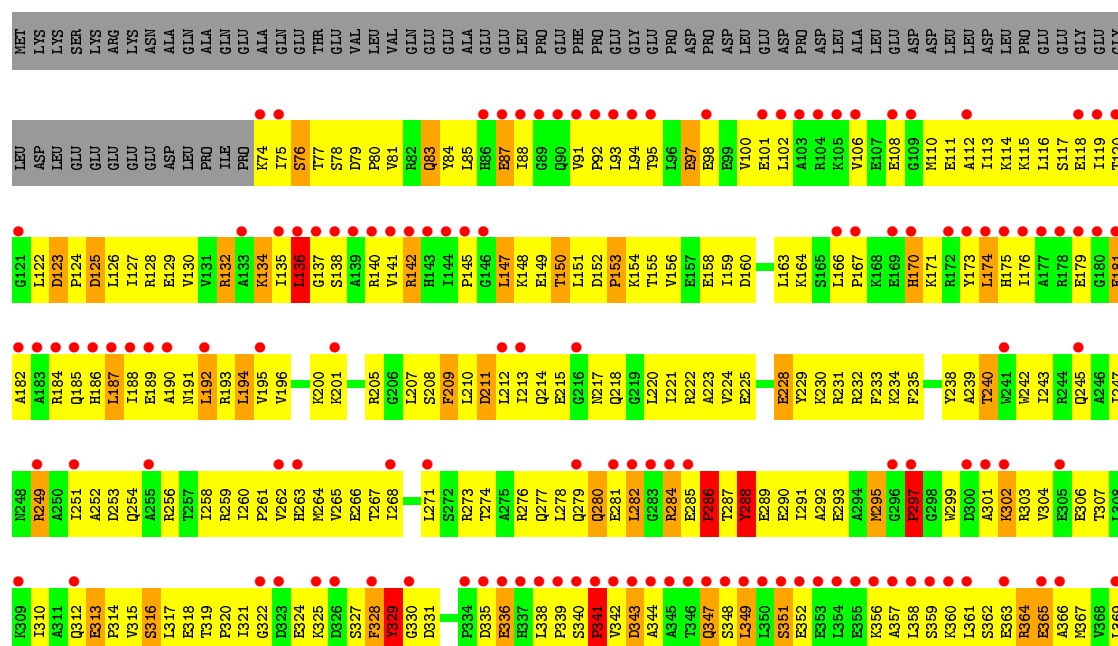
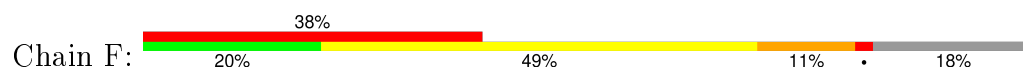
● Molecule 4: RNA polymerase omega chain

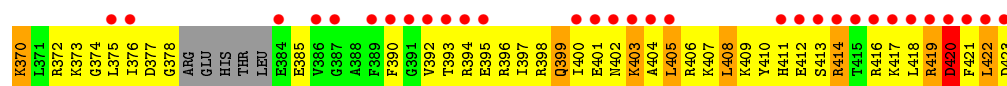


● Molecule 4: RNA polymerase omega chain

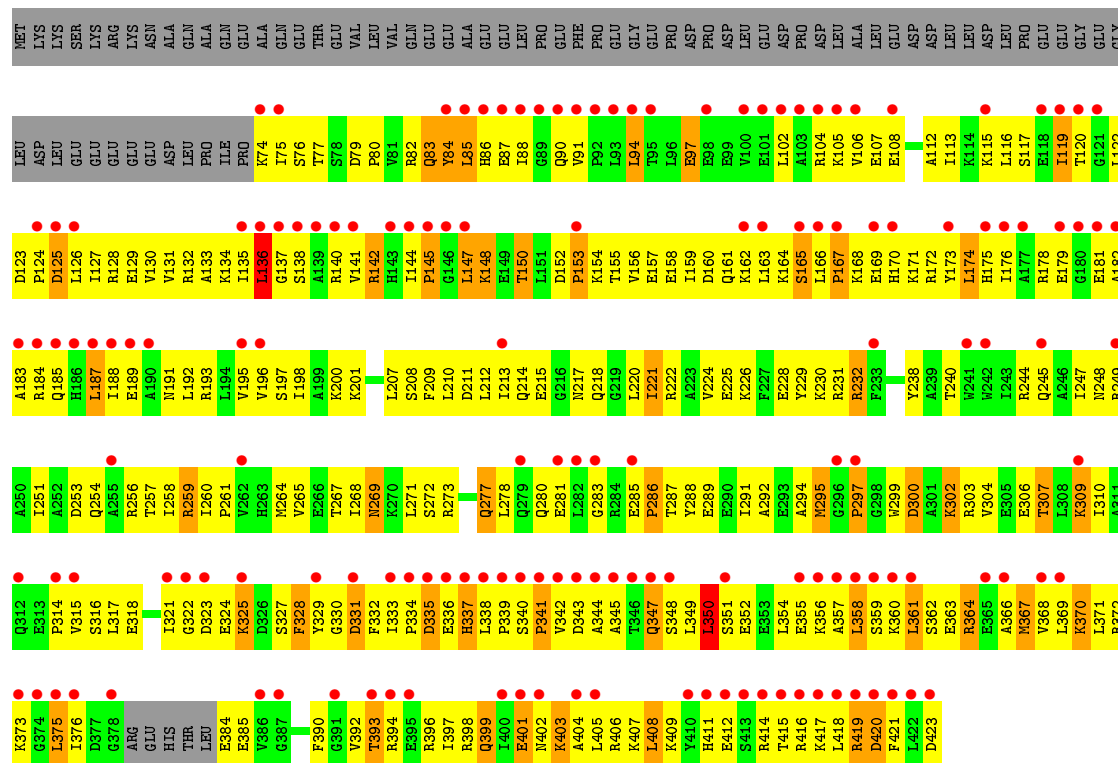
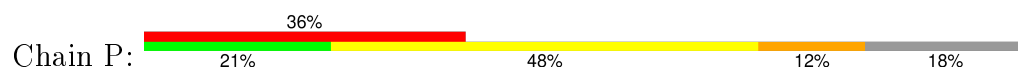


● Molecule 5: RNA polymerase sigma factor rpoD





● 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, $\alpha$ , $\beta$ , $\gamma$	239.50 Å   239.50 Å   253.10 Å 90.00°   90.00°   120.00°	Depositor
Resolution (Å)	25.00 – 2.40 36.81 – 2.40	Depositor EDS
% Data completeness (in resolution range)	(Not available) (25.00-2.40) 95.2 (36.81-2.40)	Depositor EDS
$R_{merge}$	0.10	Depositor
$R_{sym}$	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ <sup>1</sup>	4.65 (at 2.39 Å)	Xtriage
Refinement program	CNS 1.1	Depositor
R, $R_{free}$	0.237 , 0.274 0.235 , 0.272	Depositor DCC
$R_{free}$ test set	34795 reflections (6.11%)	DCC
Wilson B-factor (Å <sup>2</sup> )	33.7	Xtriage
Anisotropy	0.106	Xtriage
Bulk solvent $k_{sol}$ (e/Å <sup>3</sup> ), $B_{sol}$ (Å <sup>2</sup> )	0.00 , -79.6	EDS
Estimated twinning fraction	0.500 for H, K, L 0.500 for -H, -K, L 0.499 for -h,-k,l 0.065 for h,-h-k,-l 0.065 for -k,-h,-l	Xtriage
Reported twinning fraction	0.500 for H, K, L 0.500 for -H, -K, L	Depositor
L-test for twinning <sup>2</sup>	$\langle  L  \rangle = 0.42$ , $\langle L^2 \rangle = 0.25$	Xtriage
Outliers	0 of 604645 reflections	Xtriage
$F_o, F_c$ correlation	0.70	EDS
Total number of atoms	61800	wwPDB-VP
Average B, all atoms (Å <sup>2</sup> )	51.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 1.81% of the height of the origin peak. No significant pseudotranslation is detected.*

<sup>1</sup>Intensities estimated from amplitudes.

<sup>2</sup>Theoretical 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: ZN, MG, TGT

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	0.77	0/1838	0.86	3/2498 (0.1%)
1	B	0.70	0/1838	0.83	4/2498 (0.2%)
1	K	0.76	0/1838	0.85	4/2498 (0.2%)
1	L	0.73	0/1838	0.76	0/2498
2	C	0.81	0/8997	0.89	8/12164 (0.1%)
2	M	0.80	2/8997 (0.0%)	0.89	12/12164 (0.1%)
3	D	0.82	0/10975	0.92	21/14836 (0.1%)
3	N	0.80	1/10975 (0.0%)	0.92	17/14836 (0.1%)
4	E	0.80	0/783	0.94	0/1054
4	O	0.81	0/783	0.92	0/1054
5	F	0.71	0/2812	0.81	1/3781 (0.0%)
5	P	0.72	0/2812	0.78	2/3781 (0.1%)
All	All	0.79	3/54486 (0.0%)	0.89	72/73662 (0.1%)

All (3) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	N	733	CYS	CB-SG	-5.54	1.72	1.81
2	M	202	TYR	CD2-CE2	5.05	1.47	1.39
2	M	682	TYR	CD2-CE2	5.02	1.46	1.39

All (72) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	138	LEU	CA-CB-CG	10.11	138.56	115.30
3	N	199	LEU	CA-CB-CG	-8.78	95.11	115.30
2	M	557	ARG	NE-CZ-NH2	7.73	124.17	120.30
3	D	199	LEU	CA-CB-CG	-7.64	97.72	115.30
3	N	1389	LEU	CA-CB-CG	7.54	132.65	115.30
2	M	165	LEU	C-N-CD	-6.96	105.28	120.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	N	1068	LEU	CA-CB-CG	-6.78	99.71	115.30
2	C	367	LEU	CA-CB-CG	6.74	130.79	115.30
1	K	115	LEU	CA-CB-CG	6.68	130.66	115.30
3	D	708	LEU	CA-CB-CG	-6.63	100.06	115.30
3	N	1029	ARG	NE-CZ-NH2	-6.57	117.01	120.30
1	A	192	LEU	CA-CB-CG	6.49	130.22	115.30
3	D	813	LEU	CA-CB-CG	6.27	129.72	115.30
2	M	1097	LEU	CA-CB-CG	6.25	129.66	115.30
3	D	1389	LEU	CA-CB-CG	6.20	129.57	115.30
3	D	1029	ARG	NE-CZ-NH2	-6.18	117.21	120.30
5	F	136	LEU	CA-CB-CG	6.09	129.31	115.30
2	M	243	ARG	C-N-CD	-6.08	107.23	120.60
2	C	165	LEU	C-N-CD	-5.92	107.57	120.60
3	D	637	LEU	CA-CB-CG	5.90	128.87	115.30
1	A	115	LEU	CA-CB-CG	5.89	128.84	115.30
2	M	418	LEU	CA-CB-CG	-5.86	101.82	115.30
1	A	90	LEU	CA-CB-CG	-5.79	101.99	115.30
3	D	1209	LEU	N-CA-C	-5.76	95.46	111.00
3	D	783	ARG	NE-CZ-NH2	5.73	123.16	120.30
2	C	243	ARG	C-N-CD	-5.72	108.01	120.60
3	N	209	ARG	N-CA-C	5.71	126.43	111.00
1	K	127	LEU	CA-CB-CG	5.68	128.36	115.30
2	M	285	LEU	CA-CB-CG	5.65	128.30	115.30
3	N	1209	LEU	N-CA-C	-5.63	95.80	111.00
3	N	581	LEU	CA-CB-CG	5.61	128.20	115.30
2	C	290	LEU	CA-CB-CG	5.59	128.16	115.30
2	C	88	LEU	CA-CB-CG	5.58	128.13	115.30
3	D	1395	LEU	CA-CB-CG	5.58	128.13	115.30
5	P	136	LEU	CA-CB-CG	5.58	128.12	115.30
3	N	743	ASP	CB-CG-OD2	5.57	123.31	118.30
3	D	209	ARG	N-CA-C	5.56	126.02	111.00
1	K	2	LEU	CA-CB-CG	5.54	128.05	115.30
3	D	171	LEU	CA-CB-CG	5.53	128.02	115.30
3	D	73	CYS	CA-CB-SG	5.53	123.95	114.00
3	D	238	PRO	N-CA-CB	5.45	109.84	103.30
1	B	25	LEU	CA-CB-CG	5.42	127.76	115.30
3	N	1312	LEU	CA-CB-CG	5.41	127.75	115.30
3	N	637	LEU	CA-CB-CG	5.41	127.73	115.30
3	D	581	LEU	CA-CB-CG	5.41	127.73	115.30
5	P	350	LEU	CA-CB-CG	5.38	127.68	115.30
2	M	98	LEU	CA-CB-CG	5.38	127.67	115.30
1	B	2	LEU	CA-CB-CG	5.37	127.66	115.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	D	1420	LEU	CB-CG-CD2	-5.36	101.90	111.00
3	D	208	PRO	CA-N-CD	-5.34	104.03	111.50
3	N	238	PRO	N-CA-CB	5.33	109.69	103.30
2	M	571	LEU	CA-CB-CG	5.29	127.47	115.30
2	M	439	CYS	CA-CB-SG	5.29	123.51	114.00
2	M	729	LEU	CA-CB-CG	-5.28	103.15	115.30
3	N	373	PRO	N-CA-CB	5.25	109.60	103.30
3	N	208	PRO	CA-N-CD	-5.24	104.17	111.50
3	N	248	PRO	N-CA-CB	5.22	109.57	103.30
2	M	58	ASP	C-N-CA	5.22	134.74	121.70
2	C	620	LEU	CA-CB-CG	5.21	127.29	115.30
3	N	380	GLU	N-CA-C	-5.21	96.92	111.00
2	C	58	ASP	C-N-CA	5.20	134.71	121.70
3	D	81	THR	N-CA-C	-5.16	97.07	111.00
3	D	76	CYS	CA-CB-SG	5.13	123.23	114.00
3	N	81	THR	N-CA-C	-5.12	97.18	111.00
2	M	729	LEU	N-CA-C	5.09	124.74	111.00
3	D	248	PRO	N-CA-CB	5.04	109.35	103.30
2	C	1098	ASP	CB-CG-OD1	5.03	122.83	118.30
3	D	21	TRP	CA-CB-CG	5.03	123.26	113.70
1	K	211	LEU	CA-CB-CG	5.03	126.86	115.30
3	D	380	GLU	N-CA-C	-5.03	97.43	111.00
1	B	62	LEU	CA-CB-CG	5.02	126.86	115.30
3	N	1420	LEU	CA-CB-CG	5.02	126.84	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	232	0
1	B	1806	0	1861	217	0
1	K	1806	0	1861	195	0
1	L	1806	0	1861	216	0
2	C	8829	0	8933	1248	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	M	8829	0	8933	1139	0
3	D	10797	0	10873	1481	0
3	N	10797	0	10873	1398	0
4	E	769	0	775	101	0
4	O	769	0	775	98	0
5	F	2771	0	2844	350	0
5	P	2771	0	2844	345	0
6	C	1	0	0	0	0
6	D	1	0	0	0	0
6	N	2	0	0	0	0
7	D	2	0	0	0	0
7	N	2	0	0	0	0
8	D	26	0	15	3	0
8	N	26	0	14	1	0
9	A	250	0	0	46	0
9	B	329	0	0	67	0
9	C	1321	0	0	266	0
9	D	1655	0	0	324	0
9	E	176	0	0	32	0
9	F	519	0	0	103	0
9	K	278	0	0	43	0
9	L	309	0	0	68	0
9	M	1236	0	0	259	0
9	N	1552	0	0	306	0
9	O	137	0	0	23	0
9	P	422	0	0	84	0
All	All	61800	0	54323	6611	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 61.

All (6611) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:409:ARG:HA	2:M:454:SER:HA	1.20	1.15
3:D:1045:MET:HG2	3:D:1073:SER:HA	1.33	1.10
3:D:119:SER:HB2	3:D:123:LEU:H	1.23	1.04
2:C:987:ILE:HG23	3:D:948:THR:HG21	1.41	1.02
2:C:457:ALA:HB3	2:C:538:GLN:HA	1.43	1.01
3:D:422:ALA:HB3	3:D:427:VAL:HG22	1.39	1.00
2:M:197:LEU:HD13	2:M:207:LEU:HD11	1.43	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:567:ILE:HG22	3:N:571:LYS:HZ1	1.23	1.00
2:M:952:LEU:HD12	2:M:969:GLN:HE22	1.25	0.99
3:N:1096:ARG:HH11	3:N:1096:ARG:HB2	1.24	0.99
2:C:979:THR:HG23	2:C:981:GLU:H	1.26	0.99
3:N:197:SER:HB3	3:N:203:ALA:HB3	1.44	0.99
2:C:110:GLU:HG2	2:C:369:PRO:HB3	1.45	0.98
3:N:422:ALA:HB1	5:P:178:ARG:HH12	1.26	0.97
2:C:874:LEU:HD21	3:D:787:LEU:HD22	1.43	0.97
3:D:197:SER:HB3	3:D:203:ALA:HB3	1.45	0.96
3:N:1033:GLN:HE21	3:N:1036:ARG:HH11	1.01	0.96
2:M:194:VAL:HA	2:M:197:LEU:HD12	1.45	0.96
3:D:540:LEU:HD21	3:D:603:LEU:HD21	1.47	0.96
3:D:1101:VAL:HG21	3:D:1424:VAL:HG22	1.47	0.95
3:D:9:ARG:HH12	3:D:506:GLY:HA2	1.31	0.95
1:K:42:ARG:HH12	2:M:857:ASP:HB3	1.30	0.94
2:M:169:GLY:HA2	2:M:263:ASP:HB3	1.49	0.94
1:L:1:MET:HG2	1:L:5:LYS:HB3	1.49	0.94
2:C:724:ARG:HG3	2:C:741:GLY:H	1.30	0.94
3:N:871:LYS:HE2	3:N:873:LEU:HD21	1.48	0.94
3:N:26:VAL:HG11	3:N:44:LEU:HD23	1.48	0.94
5:P:166:LEU:HB3	5:P:170:HIS:HB2	1.50	0.93
1:A:63:HIS:HB3	2:C:746:GLY:HA2	1.48	0.93
3:D:1468:LEU:HD22	3:D:1470:ARG:HB2	1.50	0.93
2:C:768:THR:HB	2:C:771:GLU:HB3	1.51	0.93
3:N:671:LYS:HZ3	3:N:675:ARG:HE	1.12	0.93
3:D:478:LEU:HD21	3:D:500:ARG:HH21	1.34	0.93
3:N:187:LYS:HE2	3:N:213:VAL:HG12	1.51	0.93
3:D:52:PRO:HG2	3:D:80:VAL:HG13	1.49	0.92
2:C:211:LEU:HD11	2:C:308:ARG:HB2	1.52	0.92
3:D:171:LEU:HD22	3:D:390:PRO:HG3	1.52	0.92
3:D:18:ILE:HG23	3:D:518:PRO:HG3	1.51	0.92
1:K:186:LEU:HB2	1:K:192:LEU:HD11	1.52	0.92
2:C:150:PRO:HA	2:C:158:TYR:HB3	1.50	0.92
2:M:1096:ALA:O	3:N:13:ALA:HB2	1.69	0.91
2:M:462:ASP:HB3	2:M:468:ARG:HD2	1.50	0.91
2:M:110:GLU:HG2	2:M:369:PRO:HG3	1.51	0.91
2:M:857:ASP:HB2	2:M:978:ARG:HG2	1.48	0.91
2:C:775:ARG:HH21	2:C:782:ALA:HB1	1.35	0.91
2:M:762:LYS:HA	2:M:786:LYS:HD2	1.50	0.91
2:C:328:LEU:HD13	2:C:433:THR:HB	1.52	0.91
5:P:156:VAL:HA	5:P:159:ILE:HD12	1.51	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:835:SER:H	3:N:838:ARG:HH21	1.10	0.91
3:D:553:ARG:HH12	5:F:211:ASP:HA	1.35	0.91
3:D:530:VAL:HB	3:D:534:ARG:HB2	1.53	0.90
3:D:562:ALA:HB1	3:D:567:ILE:HD11	1.54	0.90
5:P:76:SER:O	5:P:80:PRO:HD2	1.71	0.90
2:C:54:ILE:HD11	2:C:356:ARG:HG3	1.54	0.89
2:C:479:VAL:HG21	2:C:503:LEU:HD11	1.52	0.89
2:C:630:ARG:HH21	2:C:705:ILE:HG22	1.34	0.89
3:N:1018:ASN:HB3	3:N:1021:TYR:HB3	1.53	0.89
2:M:8:ARG:HD2	2:M:10:ARG:HH22	1.38	0.89
1:A:14:ARG:NH2	1:A:22:GLU:HB3	1.87	0.89
3:D:1310:ARG:HD3	3:D:1310:ARG:H	1.37	0.89
3:N:145:VAL:HG22	3:N:146:PRO:HD2	1.54	0.89
5:F:166:LEU:HB3	5:F:170:HIS:HB2	1.52	0.89
3:D:65:ARG:HG3	3:D:66:GLN:H	1.38	0.89
2:C:1087:VAL:HG11	3:D:613:ARG:HH21	1.38	0.89
3:D:141:ILE:HD13	3:D:450:TYR:HB2	1.52	0.88
1:A:186:LEU:HB2	1:A:192:LEU:HD11	1.54	0.88
3:N:73:CYS:HB3	3:N:76:CYS:O	1.74	0.88
1:A:14:ARG:HH21	1:A:22:GLU:HB3	1.36	0.88
3:N:1476:THR:HG23	4:O:21:VAL:HG22	1.56	0.88
5:P:394:ARG:HA	5:P:397:ILE:HD12	1.55	0.88
3:D:214:GLU:HB2	3:D:390:PRO:HD2	1.55	0.87
3:N:55:ASP:HA	3:N:82:LYS:HG3	1.56	0.87
2:M:150:PRO:HA	2:M:158:TYR:HB3	1.56	0.87
3:N:44:LEU:HB3	3:N:525:ARG:HH21	1.37	0.87
3:D:1372:VAL:HA	3:D:1375:MET:HE3	1.57	0.87
3:D:1466:VAL:HG23	3:D:1472:ILE:HD11	1.55	0.87
1:K:24:VAL:HG22	1:K:196:THR:HB	1.54	0.86
1:B:87:VAL:HG21	1:B:144:VAL:HG11	1.55	0.86
2:C:362:GLY:HA3	2:C:367:LEU:HD23	1.58	0.86
2:C:1097:LEU:HD22	2:C:1097:LEU:H	1.41	0.86
2:C:774:LEU:HA	2:C:777:ILE:HD12	1.55	0.86
1:B:77:GLU:HB3	9:B:380:HOH:O	1.76	0.86
3:D:1393:GLN:HB2	3:D:1398:TRP:HE1	1.38	0.86
3:D:1026:SER:HA	9:D:9142:HOH:O	1.76	0.86
5:P:163:LEU:HB3	5:P:174:LEU:HG	1.55	0.86
2:M:146:VAL:HG22	2:M:162:ILE:HA	1.57	0.86
2:M:411:SER:HA	2:M:452:ILE:HA	1.54	0.86
5:F:273:ARG:HA	5:F:276:ARG:HD2	1.58	0.86
3:N:1290:LEU:HD23	3:N:1291:SER:H	1.41	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:P:355:GLU:HA	5:P:358:LEU:HD23	1.58	0.85
3:D:1223:ILE:HD12	3:D:1223:ILE:H	1.40	0.85
5:P:375:LEU:HG	5:P:376:ILE:HG13	1.57	0.85
3:D:796:ARG:HG3	3:D:828:LYS:HD2	1.56	0.85
1:L:32:PHE:HB2	9:L:1714:HOH:O	1.75	0.85
3:N:1095:THR:HG23	3:N:1230:GLY:HA3	1.58	0.85
2:C:597:ALA:HB2	2:C:655:LEU:HD21	1.57	0.85
5:P:361:LEU:HD22	5:P:366:ALA:HB2	1.58	0.85
3:N:695:ILE:HA	9:N:9171:HOH:O	1.77	0.85
3:D:148:GLU:HB3	3:D:151:GLN:HB2	1.55	0.85
2:M:362:GLY:HA3	2:M:367:LEU:HD23	1.59	0.85
5:F:394:ARG:HA	5:F:397:ILE:HD12	1.58	0.85
3:N:1379:VAL:HG12	3:N:1419:PRO:HA	1.59	0.85
3:N:890:VAL:HG12	3:N:926:LYS:HG2	1.57	0.85
1:B:206:THR:HG22	1:B:209:GLU:HB2	1.58	0.85
2:C:101:ILE:HG23	2:C:107:LEU:HD22	1.58	0.85
3:N:194:GLY:H	3:N:206:ARG:HA	1.41	0.85
3:D:1197:ARG:HG3	3:D:1198:TYR:H	1.41	0.85
2:C:579:VAL:HG11	2:C:887:GLU:HG3	1.59	0.85
3:N:422:ALA:HB3	3:N:427:VAL:HG22	1.58	0.85
2:C:251:ASP:HB3	2:C:252:LYS:HD2	1.59	0.85
3:D:1481:VAL:HG11	4:E:18:ARG:HA	1.58	0.85
2:M:409:ARG:HA	2:M:454:SER:CA	2.07	0.84
3:N:1205:TYR:HD2	3:N:1215:VAL:HG21	1.42	0.84
3:D:194:GLY:H	3:D:206:ARG:HA	1.41	0.84
3:D:29:PRO:HG3	3:D:549:ASN:HD21	1.42	0.84
3:D:908:LYS:HB3	3:D:1027:GLY:HA3	1.59	0.84
5:P:161:GLN:HA	5:P:164:LYS:HD2	1.59	0.84
2:C:1081:VAL:HG21	2:C:1111:ILE:HG22	1.58	0.84
3:N:558:LEU:HD13	5:P:145:PRO:HB3	1.57	0.84
3:N:1033:GLN:NE2	3:N:1036:ARG:HH11	1.74	0.84
3:D:141:ILE:HG12	3:D:449:SER:HA	1.58	0.84
3:N:783:ARG:HD2	3:N:1029:ARG:HG2	1.59	0.84
3:D:800:LYS:HE3	3:D:830:ALA:HB3	1.60	0.84
3:N:422:ALA:H	3:N:427:VAL:HG11	1.43	0.83
3:D:191:LEU:HD12	3:D:211:VAL:HG21	1.60	0.83
2:C:433:THR:HG21	2:C:488:ALA:HB1	1.60	0.83
3:D:795:VAL:HG11	3:D:863:VAL:HG13	1.60	0.83
5:F:260:ILE:HG23	5:F:264:MET:HB2	1.59	0.83
3:D:178:LEU:HD21	9:D:2576:HOH:O	1.76	0.83
1:K:117:VAL:HB	1:K:120:VAL:HG12	1.58	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:10:ARG:HA	2:M:10:ARG:HH11	1.42	0.83
2:C:565:GLN:HA	2:C:995:MET:HE3	1.61	0.83
3:D:1209:LEU:HD21	4:E:16:LYS:NZ	1.93	0.83
1:B:179:PHE:HB3	1:B:197:LEU:HG	1.61	0.83
4:O:13:VAL:HG21	4:O:19:LEU:HB2	1.60	0.83
5:F:163:LEU:HB3	5:F:174:LEU:HG	1.59	0.83
3:N:865:THR:HG23	3:N:874:GLU:HG2	1.60	0.83
3:D:131:LYS:HG3	3:D:568:ARG:HG2	1.59	0.83
3:N:800:LYS:HE3	3:N:830:ALA:HB3	1.61	0.83
3:D:26:VAL:HG11	3:D:44:LEU:HD23	1.61	0.82
2:C:890:LEU:HA	2:C:914:ILE:HD11	1.60	0.82
3:D:1147:ARG:HB2	3:D:1166:LEU:HD21	1.61	0.82
3:N:898:GLU:HB3	3:N:921:ARG:HH22	1.44	0.82
5:F:85:LEU:HA	5:F:88:ILE:HD12	1.59	0.82
3:D:1129:THR:HG23	3:D:1130:ARG:H	1.42	0.82
2:C:689:VAL:HB	2:C:870:ILE:HG13	1.59	0.82
3:N:52:PRO:HG3	3:N:78:VAL:HG13	1.60	0.82
3:N:513:ILE:HA	9:N:9341:HOH:O	1.79	0.82
1:B:57:TYR:HB3	1:B:141:GLU:HG3	1.61	0.82
2:C:232:GLU:HA	2:C:235:LEU:HD12	1.62	0.82
5:P:411:HIS:HA	5:P:414:ARG:HG3	1.62	0.82
2:C:1115:LEU:HA	3:D:89:ARG:HH21	1.43	0.82
3:N:18:ILE:HG23	3:N:518:PRO:HG3	1.61	0.82
2:C:1114:GLY:H	2:C:1115:LEU:HD12	1.45	0.82
3:N:462:GLN:HA	3:N:513:ILE:HD13	1.61	0.82
2:M:292:ARG:HB2	2:M:299:LYS:HE2	1.61	0.82
5:F:93:LEU:HD22	5:F:98:GLU:HB3	1.61	0.82
5:P:291:ILE:HG21	5:P:304:VAL:HG11	1.61	0.82
3:N:59:ALA:HA	9:N:2106:HOH:O	1.79	0.82
3:N:1383:ASP:HB2	3:N:1416:ALA:HB3	1.61	0.82
2:C:124:ASP:HB3	2:C:592:LEU:HD12	1.60	0.82
5:P:120:THR:HB	9:P:756:HOH:O	1.79	0.81
5:P:358:LEU:HD13	5:P:370:LYS:HE3	1.61	0.81
1:B:89:PHE:HB3	1:B:94:LEU:HD13	1.62	0.81
2:C:773:LEU:HB2	5:F:373:LYS:HB3	1.62	0.81
2:C:64:LEU:HD22	2:C:359:MET:HG3	1.62	0.81
1:B:94:LEU:HD21	1:B:119:ASP:HB2	1.63	0.81
3:N:14:SER:H	3:N:17:LYS:NZ	1.79	0.81
3:N:567:ILE:HG22	3:N:571:LYS:NZ	1.95	0.81
3:D:101:HIS:HD1	3:D:103:TRP:HB2	1.44	0.81
3:N:214:GLU:HB2	3:N:390:PRO:HD2	1.62	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:411:HIS:HA	5:F:414:ARG:HG3	1.62	0.81
1:L:158:ILE:HB	9:L:3186:HOH:O	1.79	0.81
2:C:186:VAL:HG23	2:C:187:ASN:H	1.45	0.81
2:C:861:LEU:HD23	2:C:862:PRO:HD2	1.61	0.81
2:M:987:ILE:HG23	3:N:948:THR:HG21	1.62	0.81
3:N:1438:ALA:O	3:N:1443:THR:HG22	1.80	0.81
2:C:626:ARG:H	2:C:639:GLN:HE21	1.26	0.81
2:M:16:PRO:HB3	2:M:460:ARG:HH22	1.46	0.81
5:F:76:SER:O	5:F:80:PRO:HD2	1.80	0.81
3:D:971:LEU:HA	3:D:974:ILE:HD12	1.62	0.81
2:M:537:LYS:HG3	2:M:545:ASN:HD21	1.46	0.81
2:M:312:ALA:HB1	2:M:318:PRO:HG2	1.63	0.80
2:C:95:TYR:HD2	2:C:114:PHE:HB3	1.45	0.80
4:E:39:VAL:HB	4:E:72:ARG:HD2	1.63	0.80
2:C:432:ARG:HH11	3:D:1048:PRO:HD2	1.46	0.80
2:C:731:GLU:HA	2:C:734:LEU:HD12	1.63	0.80
3:D:955:VAL:HB	3:D:1011:PHE:HE1	1.46	0.80
2:M:30:LEU:HB3	2:M:44:ILE:HD12	1.61	0.80
1:A:27:PRO:HG2	1:A:186:LEU:HD22	1.63	0.80
3:D:1220:ALA:HB1	3:D:1223:ILE:HD13	1.62	0.80
2:C:312:ALA:HB1	2:C:318:PRO:HG2	1.63	0.80
3:D:1057:VAL:HG13	3:D:1069:GLU:HB3	1.63	0.80
3:N:520:LEU:HD12	3:N:521:PRO:HD2	1.61	0.80
3:N:46:ASP:HB3	3:N:49:ILE:HG13	1.63	0.80
5:F:88:ILE:HD13	5:F:193:ARG:HB2	1.61	0.80
5:F:120:THR:HG22	5:F:122:LEU:HD13	1.62	0.80
3:N:493:ARG:HH22	3:N:1389:LEU:HG	1.47	0.80
2:C:588:VAL:HB	9:C:9552:HOH:O	1.81	0.80
3:D:73:CYS:HB3	3:D:76:CYS:O	1.81	0.80
2:C:773:LEU:HD13	5:F:373:LYS:HG3	1.61	0.80
2:M:670:GLN:HG2	9:M:1945:HOH:O	1.82	0.80
5:F:196:VAL:HG22	5:F:213:ILE:HD13	1.64	0.80
3:N:806:PHE:CE1	3:N:813:LEU:HB3	2.17	0.79
2:M:479:VAL:HG21	2:M:503:LEU:HD11	1.63	0.79
3:N:1393:GLN:HB2	3:N:1398:TRP:HE1	1.47	0.79
2:C:1010:THR:HG21	5:F:341:PRO:HB2	1.64	0.79
3:D:520:LEU:HD12	3:D:521:PRO:HD2	1.63	0.79
5:F:268:ILE:HA	5:F:271:LEU:HD12	1.65	0.79
3:N:693:GLU:HG3	4:O:48:MET:SD	2.23	0.79
5:F:266:GLU:HB2	9:F:739:HOH:O	1.82	0.79
3:N:30:GLU:HG3	3:N:41:ARG:HG2	1.64	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:358:LEU:HD11	5:F:370:LYS:HZ2	1.47	0.79
2:M:939:ARG:HD3	2:M:982:PRO:HD3	1.64	0.79
2:C:651:LYS:HA	9:C:9016:HOH:O	1.81	0.79
3:D:119:SER:HB2	3:D:123:LEU:N	1.96	0.79
3:D:877:PRO:HA	9:D:9270:HOH:O	1.83	0.79
1:L:161:ARG:HB2	1:L:161:ARG:HH11	1.48	0.79
2:C:710:ILE:HB	2:C:790:LEU:HD13	1.63	0.79
2:C:904:PRO:HD2	2:C:908:GLY:HA2	1.65	0.79
1:L:45:LEU:HD21	1:L:177:VAL:HG22	1.63	0.79
3:D:1105:ILE:HG13	9:D:9744:HOH:O	1.82	0.79
3:N:1393:GLN:HB2	3:N:1398:TRP:NE1	1.98	0.79
5:F:125:ASP:HA	5:F:128:ARG:NH1	1.98	0.79
3:N:396:VAL:HG21	3:N:447:VAL:HB	1.65	0.79
2:C:197:LEU:HD13	2:C:207:LEU:HD11	1.62	0.79
3:D:513:ILE:HA	9:D:9113:HOH:O	1.82	0.79
2:M:897:LEU:HB3	2:M:899:GLN:HE21	1.48	0.79
2:M:557:ARG:HH21	2:M:879:ARG:HE	1.31	0.78
3:N:601:ARG:NH1	3:N:606:ILE:HA	1.97	0.78
2:C:873:PRO:HG2	3:D:947:ILE:HD12	1.63	0.78
3:D:808:THR:HB	3:D:809:PRO:HD3	1.66	0.78
3:N:119:SER:HB3	3:N:123:LEU:H	1.46	0.78
1:B:128:HIS:HA	9:B:464:HOH:O	1.83	0.78
2:C:432:ARG:HH12	3:D:1047:LYS:HD3	1.48	0.78
3:N:141:ILE:HG12	3:N:449:SER:HA	1.63	0.78
2:M:15:LEU:HD13	2:M:583:LEU:HD21	1.64	0.78
3:D:1393:GLN:HB2	3:D:1398:TRP:NE1	1.98	0.78
3:N:570:GLU:HB2	5:P:214:GLN:NE2	1.98	0.78
2:C:108:ILE:HB	2:C:368:THR:OG1	1.83	0.78
2:M:1114:GLY:H	2:M:1115:LEU:HD12	1.47	0.78
3:N:133:ILE:HG21	3:N:454:ALA:HB1	1.64	0.78
2:M:557:ARG:HB3	9:M:1397:HOH:O	1.82	0.78
2:M:736:ASP:O	2:M:744:ARG:HG2	1.83	0.78
2:C:1056:LYS:O	3:D:624:ASP:HB2	1.84	0.78
3:N:907:GLU:HA	9:N:9151:HOH:O	1.81	0.78
3:N:1481:VAL:HG11	4:O:18:ARG:HA	1.65	0.78
3:D:86:ARG:O	3:D:522:PRO:HD2	1.83	0.78
2:M:140:ILE:HA	2:M:332:ARG:O	1.84	0.78
1:K:89:PHE:HB3	1:K:94:LEU:HD22	1.65	0.78
3:N:37:LEU:HA	9:N:9983:HOH:O	1.82	0.78
2:C:1042:ALA:HB3	3:D:710:ARG:HB3	1.65	0.78
2:M:572:ILE:HD11	2:M:698:ASP:HB3	1.66	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:222:LEU:HD12	1:B:215:VAL:HB	1.66	0.78
3:N:90:MET:HA	9:N:9284:HOH:O	1.83	0.78
2:C:1046:ALA:HB1	3:D:1471:LEU:HD11	1.65	0.78
2:M:937:ASP:HB2	2:M:940:GLU:HG3	1.66	0.77
1:L:87:VAL:HG21	1:L:144:VAL:HG11	1.64	0.77
5:P:361:LEU:HD21	5:P:404:ALA:HB1	1.67	0.77
2:M:964:LYS:O	2:M:968:LEU:HG	1.83	0.77
3:D:637:LEU:HD21	3:D:642:CYS:HA	1.66	0.77
2:C:1092:LEU:HG	3:D:607:LEU:HD21	1.66	0.77
3:D:543:LEU:HA	3:D:546:ARG:HG3	1.64	0.77
3:D:643:GLY:HA3	3:D:727:GLN:HB2	1.65	0.77
2:C:42:VAL:HG12	2:C:43:GLY:H	1.49	0.77
3:N:152:LEU:HD23	3:N:152:LEU:H	1.48	0.77
3:N:750:PRO:HB2	3:N:756:GLN:OE1	1.84	0.77
2:M:904:PRO:HD2	2:M:908:GLY:HA2	1.66	0.77
2:C:281:LEU:HD11	2:C:306:THR:HA	1.67	0.77
5:P:393:THR:HG22	5:P:394:ARG:H	1.49	0.77
3:D:1209:LEU:HD21	4:E:16:LYS:HZ2	1.49	0.77
2:M:605:LYS:HB2	2:M:610:ARG:NH1	2.00	0.77
1:K:34:VAL:HB	1:L:42:ARG:HH21	1.50	0.77
2:C:302:VAL:HG12	9:C:9351:HOH:O	1.84	0.77
3:N:795:VAL:HG11	3:N:863:VAL:HG13	1.65	0.77
2:C:945:ARG:HD2	9:C:2219:HOH:O	1.85	0.77
2:C:281:LEU:HD12	2:C:309:TYR:HB2	1.67	0.77
2:M:512:ARG:HB3	2:M:523:ILE:HD11	1.67	0.77
3:N:148:GLU:HB3	3:N:151:GLN:HB2	1.67	0.77
2:C:882:LEU:HD11	3:D:1038:LEU:HD23	1.65	0.76
2:M:597:ALA:HB2	2:M:655:LEU:HD21	1.65	0.76
2:C:690:ILE:HD11	2:C:694:LEU:HB2	1.67	0.76
5:F:112:ALA:HA	5:F:173:TYR:HD2	1.50	0.76
2:C:846:LYS:HD3	3:D:741:ASP:HB2	1.66	0.76
3:D:386:HIS:HA	9:D:9592:HOH:O	1.85	0.76
3:D:87:ARG:HA	9:D:2209:HOH:O	1.85	0.76
3:N:105:VAL:HG21	3:N:128:TYR:HE2	1.49	0.76
3:N:875:THR:HG21	3:N:902:LEU:HD13	1.65	0.76
2:M:274:ARG:HB2	2:M:285:LEU:HD13	1.67	0.76
3:N:671:LYS:HZ2	3:N:675:ARG:HH21	1.33	0.76
2:M:176:VAL:HG12	2:M:182:VAL:HG13	1.67	0.76
3:N:1205:TYR:CD2	3:N:1215:VAL:HG21	2.20	0.76
3:D:145:VAL:HG22	3:D:146:PRO:HD2	1.67	0.76
2:M:966:LEU:HD11	2:M:986:PRO:HG2	1.67	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:1030:GLN:HE22	3:N:628:ARG:HH21	1.31	0.76
2:M:22:GLN:NE2	2:M:336:VAL:HG21	2.00	0.76
3:D:525:ARG:HB2	3:D:541:ASN:HD21	1.50	0.76
5:F:132:ARG:HH11	5:F:136:LEU:HD21	1.50	0.76
1:L:112:ARG:HH12	1:L:126:ASP:HA	1.51	0.76
3:N:1352:ILE:O	3:N:1355:VAL:HG23	1.84	0.76
3:D:601:ARG:HG2	3:D:606:ILE:HD13	1.68	0.76
3:N:186:VAL:HG21	3:N:213:VAL:HB	1.67	0.76
2:C:36:PRO:HG2	2:C:70:GLU:HB3	1.68	0.76
5:F:417:LYS:HA	9:F:587:HOH:O	1.85	0.76
3:D:518:PRO:HB2	9:D:2368:HOH:O	1.84	0.76
3:D:161:LEU:HD22	3:D:452:ILE:HG21	1.67	0.76
5:P:364:ARG:HH12	5:P:392:VAL:HG21	1.49	0.76
2:C:244:PRO:HD2	2:C:245:GLY:H	1.51	0.76
3:N:835:SER:H	3:N:838:ARG:NH2	1.83	0.76
3:D:785:ILE:HD12	3:D:785:ILE:H	1.49	0.76
2:C:47:ALA:HB1	2:C:345:ARG:HB3	1.65	0.76
3:N:1112:CYS:HB2	3:N:1195:GLN:OE1	1.85	0.76
3:D:1046:GLN:HA	3:D:1052:THR:HA	1.68	0.76
3:N:671:LYS:NZ	3:N:675:ARG:HE	1.83	0.76
3:N:817:GLU:HG3	3:N:839:LEU:HD13	1.66	0.76
3:N:1209:LEU:HD11	4:O:16:LYS:HD2	1.67	0.75
2:M:791:ARG:HB3	2:M:791:ARG:NH1	2.01	0.75
2:C:820:ARG:HB2	9:C:9031:HOH:O	1.86	0.75
3:N:546:ARG:HH22	3:N:550:ARG:HH22	1.34	0.75
2:C:512:ARG:HB3	2:C:523:ILE:HD11	1.68	0.75
1:B:156:HIS:ND1	1:B:158:ILE:HG12	2.00	0.75
4:E:13:VAL:HB	9:E:128:HOH:O	1.86	0.75
2:M:1033:GLY:HA2	3:N:619:LEU:O	1.86	0.75
1:L:176:ARG:CZ	3:N:884:ARG:HH11	1.98	0.75
5:P:117:SER:HA	9:P:756:HOH:O	1.87	0.75
3:N:630:VAL:HA	3:N:744:GLN:HG2	1.67	0.75
2:C:678:PRO:O	3:D:943:THR:HA	1.87	0.75
3:N:1111:ASP:HB2	3:N:1203:LYS:HD2	1.69	0.75
3:D:628:ARG:HD3	3:D:744:GLN:NE2	2.01	0.75
1:L:22:GLU:HG2	1:L:198:ARG:HG2	1.69	0.75
3:N:95:LEU:HD21	3:N:574:LEU:HD11	1.68	0.75
2:C:332:ARG:HE	2:C:464:LEU:HD11	1.51	0.75
2:C:66:LEU:HB2	9:C:9063:HOH:O	1.84	0.75
2:M:952:LEU:HD12	2:M:969:GLN:NE2	2.02	0.75
4:E:9:LEU:HB3	4:E:19:LEU:HD21	1.67	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:220:LEU:HD12	5:F:243:ILE:HD11	1.67	0.75
3:N:1045:MET:HG2	3:N:1073:SER:HA	1.69	0.75
3:N:565:ILE:H	3:N:565:ILE:HD12	1.50	0.75
3:D:1377:LYS:HG3	3:D:1394:VAL:HG13	1.69	0.75
2:C:675:ALA:HA	2:C:989:VAL:HG12	1.68	0.75
2:M:163:ILE:HG21	9:M:1318:HOH:O	1.87	0.75
3:N:514:LEU:HA	9:N:9120:HOH:O	1.87	0.75
3:N:1138:ALA:HA	3:N:1141:GLU:HG3	1.68	0.75
2:C:672:VAL:HG23	2:C:868:ASP:HB2	1.67	0.74
1:K:87:VAL:HG21	1:K:144:VAL:HG11	1.68	0.74
5:P:359:SER:HA	9:P:472:HOH:O	1.86	0.74
3:D:30:GLU:HB3	3:D:40:GLU:HB3	1.67	0.74
3:D:806:PHE:CE1	3:D:813:LEU:HB3	2.22	0.74
2:M:36:PRO:HG2	2:M:70:GLU:HB3	1.69	0.74
9:K:5362:HOH:O	2:M:856:GLU:HB3	1.87	0.74
3:D:37:LEU:HA	9:D:9129:HOH:O	1.87	0.74
5:P:88:ILE:HD13	5:P:193:ARG:HB2	1.69	0.74
2:C:1090:LYS:HE2	2:C:1112:PHE:HE1	1.50	0.74
2:M:1068:GLU:HB2	9:P:447:HOH:O	1.87	0.74
1:L:56:VAL:HG13	1:L:142:VAL:HG12	1.68	0.74
3:D:952:ASP:HA	3:D:1062:ARG:HH21	1.50	0.74
2:C:1019:GLN:HE22	3:D:621:LYS:HG2	1.53	0.74
3:D:93:ILE:HG12	3:D:548:ILE:HD12	1.69	0.74
3:D:974:ILE:HG22	9:D:9323:HOH:O	1.88	0.74
2:M:274:ARG:HD2	2:M:285:LEU:HD22	1.70	0.74
9:C:9028:HOH:O	3:D:1061:PHE:HA	1.88	0.74
3:D:85:VAL:O	3:D:89:ARG:HD2	1.88	0.74
2:C:139:GLN:OE1	2:C:414:GLY:HA3	1.87	0.74
2:M:1115:LEU:HD23	3:N:85:VAL:HG13	1.68	0.74
1:B:74:ASP:HB3	9:B:380:HOH:O	1.87	0.74
3:N:1301:LYS:HE3	3:N:1301:LYS:HA	1.68	0.74
5:P:144:ILE:HB	5:P:145:PRO:HD3	1.70	0.74
2:C:943:VAL:HG23	2:C:985:GLY:H	1.52	0.74
2:M:534:VAL:H	2:M:538:GLN:NE2	1.85	0.74
2:C:428:ARG:HE	2:C:451:LEU:HD11	1.52	0.74
3:D:135:LEU:HD13	3:D:147:VAL:HG23	1.70	0.74
3:N:451:ASP:HB3	9:N:2657:HOH:O	1.89	0.73
1:A:42:ARG:NH1	2:C:857:ASP:HB3	2.03	0.73
5:P:102:LEU:HD13	5:P:187:LEU:HG	1.68	0.73
1:A:59:GLU:HG3	1:A:139:ASN:OD1	1.88	0.73
3:D:97:THR:HG21	3:D:571:LYS:HD3	1.68	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:699:VAL:HG21	3:N:760:ARG:HB3	1.69	0.73
2:C:838:LYS:HG3	2:C:997:LEU:HD12	1.70	0.73
2:M:856:GLU:HG3	9:M:1358:HOH:O	1.88	0.73
2:M:107:LEU:HD12	9:M:2109:HOH:O	1.87	0.73
3:D:1095:THR:O	3:D:1099:VAL:HG23	1.87	0.73
2:C:694:LEU:HD11	2:C:868:ASP:HB3	1.70	0.73
1:B:41:ARG:HH11	1:B:177:VAL:HG23	1.53	0.73
2:M:1111:ILE:HD13	2:M:1111:ILE:H	1.52	0.73
5:F:156:VAL:HG11	9:F:540:HOH:O	1.86	0.73
3:N:1144:LEU:HD12	3:N:1171:VAL:HG13	1.70	0.73
2:M:498:GLN:O	2:M:501:THR:HG23	1.89	0.73
1:L:58:ILE:HB	1:L:61:VAL:HB	1.69	0.73
3:N:192:ALA:O	3:N:195:VAL:HG23	1.87	0.73
3:N:423:ASP:HB2	5:P:178:ARG:HD2	1.70	0.73
3:N:131:LYS:HG3	3:N:572:ARG:HH21	1.52	0.73
1:B:25:LEU:HB2	9:B:327:HOH:O	1.86	0.73
2:M:73:LEU:HD23	2:M:94:LEU:HD13	1.69	0.73
3:D:984:THR:HG22	3:D:987:GLU:HB2	1.69	0.73
5:P:335:ASP:OD2	5:P:338:LEU:HB2	1.89	0.73
1:K:222:LEU:HD11	1:L:218:LEU:HD23	1.68	0.73
3:D:1031:ASN:HD22	3:D:1034:GLN:NE2	1.87	0.73
1:K:206:THR:HG22	1:K:209:GLU:HG3	1.71	0.73
5:F:94:LEU:HB3	9:F:641:HOH:O	1.87	0.73
4:E:79:LEU:HG	4:E:80:VAL:HG23	1.70	0.73
3:D:213:VAL:HG21	9:D:9317:HOH:O	1.89	0.73
1:L:228:PRO:O	1:L:229:GLN:HG3	1.89	0.73
3:N:1156:LEU:HB3	9:N:9896:HOH:O	1.88	0.73
3:D:127:LEU:HD11	3:D:461:ILE:HD11	1.70	0.73
3:D:493:ARG:HH22	3:D:1389:LEU:HG	1.53	0.73
3:D:795:VAL:HG23	3:D:879:ARG:HH12	1.53	0.73
5:F:160:ASP:HA	5:F:163:LEU:HD12	1.70	0.73
2:C:231:PRO:HB3	9:C:9753:HOH:O	1.88	0.73
2:M:675:ALA:HA	2:M:989:VAL:HG12	1.71	0.72
3:D:187:LYS:HE2	3:D:213:VAL:HG12	1.70	0.72
2:C:704:HIS:HB2	2:C:831:ARG:HE	1.54	0.72
1:A:8:ALA:HB1	1:B:224:TYR:CE1	2.24	0.72
3:D:101:HIS:ND1	3:D:103:TRP:HB2	2.04	0.72
3:N:810:GLU:O	3:N:813:LEU:HG	1.89	0.72
3:D:528:VAL:O	3:D:535:PHE:HA	1.90	0.72
3:D:666:ILE:HD12	3:D:666:ILE:H	1.53	0.72
5:P:403:LYS:NZ	5:P:403:LYS:HA	2.04	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:483:HIS:HB2	3:N:484:PRO:HD3	1.69	0.72
3:N:1209:LEU:HD23	3:N:1210:SER:N	2.03	0.72
2:M:1040:LEU:HB3	2:M:1049:LEU:HD12	1.70	0.72
2:C:413:LEU:HD12	2:C:413:LEU:H	1.52	0.72
3:D:546:ARG:O	3:D:550:ARG:HG2	1.89	0.72
2:C:479:VAL:CG2	2:C:503:LEU:HD11	2.19	0.72
2:C:882:LEU:HB3	3:D:951:ILE:HD11	1.72	0.72
3:D:1166:LEU:HD23	3:D:1166:LEU:H	1.54	0.72
3:N:955:VAL:HA	9:N:9213:HOH:O	1.89	0.72
3:D:171:LEU:HD11	3:D:388:HIS:CB	2.19	0.72
3:D:572:ARG:HH11	5:F:80:PRO:HD3	1.55	0.72
3:D:161:LEU:HD23	3:D:449:SER:HB3	1.71	0.72
2:M:1115:LEU:HB3	3:N:85:VAL:HG13	1.72	0.72
2:C:626:ARG:H	2:C:639:GLN:NE2	1.87	0.72
3:N:1277:ILE:HD12	3:N:1301:LYS:HB2	1.72	0.72
1:A:42:ARG:HH12	2:C:857:ASP:HB3	1.54	0.72
2:C:384:GLU:HG3	2:C:388:ARG:HE	1.54	0.72
2:C:86:LYS:HE2	2:C:813:VAL:HG12	1.69	0.72
2:M:1058:ASP:HA	9:M:1172:HOH:O	1.89	0.72
2:M:943:VAL:HG23	2:M:985:GLY:H	1.54	0.72
3:N:161:LEU:HD22	3:N:452:ILE:HG21	1.72	0.72
2:C:470:PRO:HB2	2:C:534:VAL:HG21	1.70	0.72
2:C:521:PRO:HB2	3:D:1055:VAL:HB	1.72	0.72
2:M:129:ILE:HD13	2:M:134:ARG:HB2	1.72	0.72
5:F:235:PHE:HA	9:F:523:HOH:O	1.90	0.72
3:N:1459:LEU:HA	9:N:9821:HOH:O	1.90	0.72
2:M:83:CYS:HA	2:M:88:LEU:HB3	1.69	0.72
3:D:1105:ILE:HD11	3:D:1374:GLN:NE2	2.04	0.72
1:B:73:GLU:HB3	1:B:77:GLU:CG	2.20	0.72
3:N:927:THR:HA	9:N:2186:HOH:O	1.90	0.72
3:N:807:ALA:HB2	3:N:833:GLU:OE1	1.88	0.72
3:D:1438:ALA:O	3:D:1443:THR:HG22	1.88	0.72
1:A:87:VAL:HG21	1:A:144:VAL:HG11	1.71	0.72
3:D:399:ARG:HB2	3:D:444:VAL:HG13	1.71	0.72
2:M:1016:ILE:HD11	5:P:317:LEU:HD22	1.71	0.72
3:N:191:LEU:HD22	3:N:195:VAL:HG21	1.71	0.71
3:N:1036:ARG:HH21	3:N:1042:ARG:HA	1.55	0.71
2:M:771:GLU:HA	9:M:2317:HOH:O	1.88	0.71
3:N:1434:TRP:CZ3	3:N:1457:ASP:HB2	2.24	0.71
1:K:36:LEU:O	1:K:39:PRO:HD2	1.90	0.71
2:C:557:ARG:NE	2:C:879:ARG:HG2	2.04	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:654:LYS:HB3	3:N:655:PRO:HD3	1.70	0.71
2:C:534:VAL:H	2:C:538:GLN:HE22	1.39	0.71
2:M:943:VAL:HA	9:M:2093:HOH:O	1.88	0.71
3:D:400:VAL:HG23	9:D:2550:HOH:O	1.89	0.71
2:M:447:ALA:HA	3:N:1085:ALA:HB1	1.69	0.71
2:M:192:PRO:HD2	9:M:1708:HOH:O	1.91	0.71
3:N:1109:GLU:HG2	3:N:1201:CYS:HA	1.72	0.71
2:M:1085:PHE:HD2	3:N:1468:LEU:HA	1.55	0.71
2:M:93:PRO:HG3	2:M:117:HIS:HE1	1.55	0.71
3:D:1311:LEU:HD23	3:D:1311:LEU:H	1.54	0.71
3:N:1314:LYS:HZ1	3:N:1317:ASP:HB2	1.54	0.71
2:C:881:ASN:HD22	2:C:881:ASN:H	1.37	0.71
2:M:1088:LEU:HD12	3:N:613:ARG:HE	1.55	0.71
3:N:86:ARG:O	3:N:522:PRO:HD2	1.91	0.71
5:F:358:LEU:HD21	5:F:370:LYS:HE3	1.73	0.71
1:A:9:PRO:HD2	1:B:224:TYR:CZ	2.25	0.71
3:D:6:ARG:HB2	3:D:7:LYS:HD3	1.70	0.71
1:B:153:ALA:HB3	9:B:518:HOH:O	1.90	0.71
2:M:790:LEU:HG	9:M:1927:HOH:O	1.89	0.71
3:N:542:ASP:O	3:N:546:ARG:HG2	1.90	0.71
3:N:54:LYS:HG2	3:N:57:GLU:HB3	1.72	0.71
3:N:119:SER:H	3:N:123:LEU:HB2	1.55	0.71
1:K:96:THR:HG21	9:K:1754:HOH:O	1.89	0.71
1:K:206:THR:HG22	1:K:209:GLU:H	1.55	0.71
1:K:228:PRO:HG2	9:K:6760:HOH:O	1.91	0.71
3:D:1160:LEU:HD11	3:D:1174:LEU:HD21	1.72	0.71
1:K:99:LEU:HD21	1:K:122:ILE:HD11	1.72	0.71
3:D:422:ALA:HB3	3:D:427:VAL:CG2	2.19	0.71
5:P:163:LEU:HD13	5:P:174:LEU:HD21	1.72	0.71
2:C:724:ARG:HH11	2:C:724:ARG:HB3	1.55	0.71
3:D:454:ALA:HB1	9:D:9355:HOH:O	1.89	0.71
3:N:131:LYS:HA	3:N:456:MET:HG3	1.72	0.71
2:C:606:VAL:HG22	2:C:645:VAL:HG13	1.73	0.71
3:D:58:CYS:HB3	9:D:9127:HOH:O	1.90	0.71
3:N:12:LEU:HD13	3:N:511:TRP:HB2	1.72	0.71
2:C:478:VAL:HA	2:C:506:ASN:O	1.91	0.71
1:A:30:ARG:HH12	2:C:938:LYS:NZ	1.88	0.71
1:B:97:VAL:HG11	1:B:120:VAL:HG21	1.71	0.71
1:B:38:ASN:HB3	1:B:39:PRO:HD3	1.73	0.71
2:C:575:GLN:HG3	2:C:670:GLN:HG2	1.73	0.71
2:M:862:PRO:HG3	2:M:975:TYR:HE1	1.56	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:208:PRO:HB2	3:D:395:VAL:HG22	1.71	0.71
1:A:20:TYR:HD2	1:A:21:GLY:H	1.39	0.71
3:D:493:ARG:HE	3:D:1388:ARG:HB3	1.56	0.71
3:N:545:ARG:HE	5:P:257:THR:HA	1.56	0.71
3:N:843:PHE:HA	9:N:9435:HOH:O	1.90	0.71
3:N:996:TRP:HE3	3:N:999:THR:HG21	1.56	0.71
2:C:1060:ILE:HD12	2:C:1063:ARG:HH12	1.55	0.71
3:D:118:LEU:HB3	3:D:123:LEU:HD22	1.72	0.70
3:N:1290:LEU:HD23	3:N:1291:SER:N	2.05	0.70
2:C:610:ARG:HB2	9:C:9166:HOH:O	1.90	0.70
3:N:639:LEU:HD13	3:N:766:ALA:HB2	1.72	0.70
3:N:1342:GLU:CD	3:N:1342:GLU:H	1.94	0.70
2:M:774:LEU:HA	2:M:777:ILE:HD12	1.72	0.70
1:A:10:VAL:HG12	1:A:12:THR:HG22	1.73	0.70
2:C:409:ARG:HA	2:C:454:SER:HA	1.72	0.70
3:N:422:ALA:HB1	5:P:178:ARG:NH1	2.04	0.70
3:D:58:CYS:SG	3:D:59:ALA:N	2.64	0.70
3:D:133:ILE:HG21	9:D:9355:HOH:O	1.90	0.70
2:M:332:ARG:NE	2:M:464:LEU:HG	2.05	0.70
1:B:41:ARG:HG3	1:B:177:VAL:HG21	1.71	0.70
2:C:650:ARG:HG3	2:C:653:ASP:HB2	1.73	0.70
3:N:210:ARG:HH11	3:N:398:ALA:HB3	1.56	0.70
1:K:69:PRO:HG2	9:K:2134:HOH:O	1.90	0.70
2:C:678:PRO:HG3	3:D:947:ILE:HD11	1.71	0.70
2:C:1111:ILE:HD12	2:C:1112:PHE:H	1.55	0.70
2:M:736:ASP:HA	2:M:744:ARG:HD3	1.72	0.70
3:N:470:LEU:HD12	3:N:503:LEU:HG	1.72	0.70
2:M:114:PHE:HE2	5:P:283:GLY:HA3	1.56	0.70
2:M:325:ILE:HD11	9:M:1743:HOH:O	1.91	0.70
2:M:707:ARG:HH21	2:M:709:GLU:HB2	1.57	0.70
3:N:1264:GLU:OE2	3:N:1424:VAL:HG12	1.90	0.70
3:N:756:GLN:O	3:N:760:ARG:HG2	1.92	0.70
5:F:393:THR:HG22	5:F:394:ARG:H	1.56	0.70
3:D:1214:PRO:HD3	9:D:9781:HOH:O	1.90	0.70
5:P:315:VAL:HA	9:P:809:HOH:O	1.92	0.70
1:A:8:ALA:HB1	1:B:224:TYR:HE1	1.55	0.70
2:C:29:ALA:HB2	2:C:337:GLY:CA	2.22	0.70
3:D:490:ALA:HA	9:D:9326:HOH:O	1.90	0.70
3:N:607:LEU:HA	3:N:613:ARG:HB3	1.73	0.70
3:N:639:LEU:HD11	3:N:928:ALA:HB1	1.73	0.70
2:C:405:ARG:CZ	2:C:566:THR:HG21	2.22	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:110:LYS:HB2	1:L:110:LYS:HZ2	1.57	0.70
3:N:75:ARG:HG2	9:N:2555:HOH:O	1.92	0.70
5:F:366:ALA:HB3	5:F:367:MET:HE2	1.72	0.70
2:M:405:ARG:HH22	2:M:409:ARG:NH1	1.89	0.70
2:C:808:ARG:HH21	2:C:820:ARG:NH2	1.90	0.70
2:M:132:ALA:HB1	2:M:632:ASN:ND2	2.07	0.70
3:D:766:ALA:HA	9:D:2465:HOH:O	1.91	0.70
2:C:358:ARG:HH22	2:C:374:ASN:HB3	1.56	0.70
3:D:41:ARG:HB3	9:D:2069:HOH:O	1.92	0.70
2:M:547:ILE:HG22	9:M:1643:HOH:O	1.92	0.70
3:N:661:MET:SD	3:N:673:ALA:HB1	2.32	0.70
1:K:10:VAL:HG12	1:K:12:THR:HG22	1.73	0.70
2:C:176:VAL:HG12	2:C:182:VAL:HG13	1.73	0.70
3:N:468:LEU:HB3	9:N:9195:HOH:O	1.92	0.70
2:C:8:ARG:HD2	2:C:10:ARG:NH1	2.06	0.70
1:K:78:ILE:HA	9:K:1830:HOH:O	1.90	0.70
2:M:437:ARG:CZ	2:M:488:ALA:HA	2.22	0.70
1:B:156:HIS:CE1	1:B:166:PRO:HB3	2.27	0.70
2:C:804:VAL:HB	2:C:824:ARG:HG3	1.74	0.70
2:C:948:GLU:HG3	2:C:955:PRO:HG3	1.71	0.70
4:O:85:LEU:HD23	4:O:86:GLN:H	1.56	0.70
1:A:18:ARG:HH12	1:A:88:ARG:CZ	2.03	0.70
3:D:427:VAL:HG23	9:D:9678:HOH:O	1.91	0.70
2:C:461:VAL:HG13	2:C:465:GLY:HA2	1.73	0.70
5:F:77:THR:O	5:F:81:VAL:HG23	1.90	0.70
2:M:329:GLY:HA3	2:M:489:THR:HG23	1.74	0.70
3:D:1232:PRO:HB3	3:D:1361:VAL:HG21	1.73	0.70
2:M:569:VAL:HG11	2:M:996:LYS:NZ	2.06	0.70
2:M:807:ARG:HH21	2:M:809:GLY:H	1.39	0.70
2:C:137:VAL:HG22	2:C:391:LEU:O	1.92	0.69
3:D:1351:GLU:OE1	3:D:1354:LYS:HD2	1.92	0.69
3:D:884:ARG:HG2	9:D:2443:HOH:O	1.92	0.69
3:N:683:ILE:HA	9:N:9232:HOH:O	1.91	0.69
3:N:1432:LYS:HD2	3:N:1433:SER:H	1.57	0.69
1:K:94:LEU:HD21	1:K:119:ASP:HB2	1.74	0.69
2:M:584:GLU:CD	2:M:584:GLU:H	1.95	0.69
5:P:269:ASN:HD21	5:P:273:ARG:NH2	1.89	0.69
5:P:178:ARG:HD3	9:P:476:HOH:O	1.93	0.69
2:C:1084:SER:O	2:C:1087:VAL:HG12	1.93	0.69
5:F:317:LEU:O	5:F:329:TYR:HB3	1.92	0.69
1:A:150:TYR:HE2	1:A:152:PRO:HG3	1.57	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:P:406:ARG:HA	5:P:409:LYS:HG2	1.73	0.69
2:M:704:HIS:CB	2:M:831:ARG:HE	2.05	0.69
3:D:928:ALA:HA	3:D:931:LEU:HD12	1.74	0.69
4:E:30:LEU:O	4:E:35:PHE:HA	1.92	0.69
2:M:439:CYS:HB2	9:M:1182:HOH:O	1.92	0.69
2:C:322:VAL:HG12	9:C:9620:HOH:O	1.90	0.69
3:D:493:ARG:NE	3:D:1388:ARG:HB3	2.07	0.69
3:D:493:ARG:NH1	3:D:1390:LEU:HB2	2.07	0.69
3:N:996:TRP:CE2	3:N:1056:PRO:HG2	2.26	0.69
3:N:553:ARG:HH12	5:P:211:ASP:HA	1.56	0.69
3:D:525:ARG:HA	3:D:538:SER:HB2	1.72	0.69
3:D:136:ASP:HB2	3:D:137:PRO:HD3	1.74	0.69
3:N:1468:LEU:HD22	3:N:1470:ARG:HB2	1.74	0.69
2:M:95:TYR:HA	9:M:1779:HOH:O	1.91	0.69
3:D:1124:GLN:NE2	3:D:1135:ARG:HG2	2.07	0.69
2:C:264:PRO:HB3	2:C:289:THR:HG21	1.74	0.69
3:D:569:ASN:OD1	5:F:80:PRO:HB3	1.92	0.69
1:L:110:LYS:HG3	9:L:8102:HOH:O	1.92	0.69
1:K:54:THR:HG22	1:K:158:ILE:HG13	1.73	0.69
3:N:1412:LYS:O	3:N:1414:PRO:HD3	1.92	0.69
2:C:1092:LEU:HD13	2:C:1099:VAL:HG21	1.75	0.69
2:C:254:VAL:HG13	2:C:258:TYR:HE1	1.56	0.69
5:F:291:ILE:HG21	5:F:304:VAL:HG11	1.74	0.69
4:E:70:THR:HG21	4:E:72:ARG:CZ	2.22	0.69
3:N:786:ILE:HD13	3:N:908:LYS:HB3	1.75	0.69
2:M:1013:TYR:HE1	2:M:1020:PRO:HG3	1.57	0.69
1:A:177:VAL:O	2:C:864:GLY:HA3	1.92	0.69
1:K:9:PRO:HB2	1:L:224:TYR:HB3	1.72	0.69
3:D:699:VAL:H	3:D:756:GLN:NE2	1.90	0.69
2:C:704:HIS:CB	2:C:831:ARG:HE	2.04	0.69
2:C:630:ARG:HH22	2:C:707:ARG:HB2	1.57	0.69
1:A:14:ARG:NH2	1:A:24:VAL:HG23	2.07	0.69
3:N:720:LEU:H	3:N:720:LEU:HD12	1.57	0.69
4:O:54:LEU:HD11	9:O:3494:HOH:O	1.91	0.69
5:F:125:ASP:HA	5:F:128:ARG:HH12	1.55	0.69
3:N:1209:LEU:HD21	4:O:16:LYS:NZ	2.07	0.69
2:C:811:PRO:HD2	2:C:813:VAL:HG13	1.73	0.69
2:C:405:ARG:NH2	2:C:409:ARG:HH22	1.91	0.69
1:B:154:GLU:HB2	9:B:639:HOH:O	1.93	0.69
3:N:1040:GLY:O	3:N:1060:SER:HB3	1.93	0.69
3:D:153:LEU:CD1	3:D:157:GLU:HB2	2.23	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1493:LYS:O	3:N:1497:GLU:HG2	1.93	0.69
1:A:86:VAL:HG21	1:A:202:ASP:O	1.93	0.69
3:N:1134:LEU:HD23	3:N:1135:ARG:O	1.93	0.69
2:M:148:PHE:HB3	9:M:1212:HOH:O	1.92	0.69
3:D:562:ALA:HB1	3:D:567:ILE:CD1	2.23	0.69
3:N:710:ARG:HH22	3:N:1210:SER:CB	2.06	0.69
3:D:207:PHE:HB3	3:D:208:PRO:HD2	1.75	0.69
2:M:432:ARG:HH12	3:N:1053:PHE:HZ	1.40	0.69
1:A:181:VAL:HG23	9:A:353:HOH:O	1.92	0.69
5:F:214:GLN:HA	5:F:217:ASN:HD22	1.58	0.68
2:C:675:ALA:HB2	2:C:867:VAL:HG11	1.73	0.68
2:M:773:LEU:O	2:M:777:ILE:HG13	1.93	0.68
3:N:97:THR:HG21	3:N:571:LYS:HD3	1.74	0.68
3:D:186:VAL:HG21	3:D:213:VAL:HB	1.76	0.68
2:C:597:ALA:HA	9:C:2091:HOH:O	1.93	0.68
3:D:792:ILE:HG13	3:D:860:LEU:HD13	1.75	0.68
9:C:9290:HOH:O	3:D:621:LYS:HB2	1.92	0.68
2:C:448:ASN:HB3	2:C:452:ILE:HD11	1.75	0.68
5:P:342:VAL:HB	9:P:643:HOH:O	1.94	0.68
3:D:1262:LEU:HD21	3:D:1351:GLU:HG3	1.75	0.68
1:B:26:GLU:HG2	1:B:27:PRO:HA	1.74	0.68
2:C:480:THR:HG22	2:C:482:GLU:H	1.59	0.68
1:L:185:ARG:HA	9:L:5544:HOH:O	1.93	0.68
3:N:1147:ARG:O	3:N:1166:LEU:HD23	1.92	0.68
1:A:197:LEU:HD23	1:A:197:LEU:N	2.08	0.68
2:M:211:LEU:HD12	2:M:304:LEU:HD12	1.73	0.68
2:C:66:LEU:HD22	2:C:372:LEU:HD23	1.75	0.68
3:N:1095:THR:O	3:N:1099:VAL:HG23	1.94	0.68
3:D:127:LEU:HD21	3:D:461:ILE:HD11	1.74	0.68
3:D:708:LEU:HD21	9:D:9706:HOH:O	1.93	0.68
3:N:1123:PHE:HA	3:N:1135:ARG:H	1.56	0.68
5:P:248:ASN:HA	5:P:251:ILE:HD12	1.75	0.68
2:M:399:ASN:O	2:M:402:SER:HB3	1.94	0.68
1:A:188:GLN:NE2	1:A:189:ARG:H	1.92	0.68
2:C:673:LEU:HD23	2:C:867:VAL:HA	1.75	0.68
3:D:1147:ARG:HB3	3:D:1188:VAL:HG21	1.74	0.68
3:N:100:ALA:HA	9:N:9341:HOH:O	1.94	0.68
2:M:1098:ASP:HB2	3:N:21:TRP:HZ2	1.58	0.68
2:M:580:MET:HB2	2:M:902:ILE:HD13	1.75	0.68
2:M:605:LYS:HG3	2:M:612:VAL:HB	1.76	0.68
3:N:616:GLN:HA	3:N:616:GLN:HE21	1.58	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:201:THR:HG22	1:L:203:GLY:H	1.58	0.68
3:N:1491:THR:O	3:N:1495:ILE:HD13	1.93	0.68
3:N:1232:PRO:HB3	3:N:1361:VAL:HG21	1.76	0.68
2:M:630:ARG:HH21	2:M:706:GLU:HA	1.56	0.68
3:N:1258:ARG:CZ	3:N:1262:LEU:HD11	2.23	0.68
3:N:207:PHE:HB3	3:N:208:PRO:HD2	1.75	0.68
3:N:171:LEU:HB2	3:N:390:PRO:HA	1.74	0.68
2:C:708:TYR:H	2:C:708:TYR:HD1	1.41	0.68
5:F:361:LEU:HD23	5:F:362:SER:H	1.57	0.68
2:C:626:ARG:N	2:C:639:GLN:HE21	1.91	0.68
3:D:462:GLN:HA	3:D:513:ILE:HD13	1.75	0.68
3:N:1243:THR:OG1	3:N:1253:THR:HB	1.93	0.68
2:C:534:VAL:H	2:C:538:GLN:NE2	1.92	0.68
2:M:39:ARG:CZ	2:M:39:ARG:HA	2.24	0.68
5:F:277:GLN:HG3	9:F:519:HOH:O	1.94	0.68
2:M:412:ALA:CB	2:M:451:LEU:HB3	2.23	0.68
3:D:1465:ASN:HD21	3:D:1470:ARG:HD3	1.59	0.68
9:N:9525:HOH:O	5:P:80:PRO:HA	1.92	0.68
2:M:139:GLN:HE22	2:M:415:PRO:HG2	1.58	0.68
2:M:1092:LEU:HD13	2:M:1099:VAL:HG21	1.75	0.68
2:C:420:ARG:HG2	2:C:422:ARG:HG2	1.76	0.68
2:M:1088:LEU:HD12	3:N:613:ARG:NE	2.09	0.68
3:N:396:VAL:HG23	9:N:2199:HOH:O	1.94	0.68
4:E:70:THR:HG21	4:E:72:ARG:NH2	2.09	0.68
9:D:2022:HOH:O	5:F:314:PRO:HB3	1.92	0.68
3:D:422:ALA:H	3:D:427:VAL:HG11	1.58	0.68
2:C:274:ARG:HB2	2:C:285:LEU:HD13	1.74	0.68
2:M:551:GLU:HB3	2:M:906:PHE:HD2	1.58	0.68
2:C:498:GLN:NE2	3:D:1068:LEU:HD12	2.08	0.68
3:D:704:ARG:HE	3:D:705:ALA:H	1.42	0.68
3:D:705:ALA:HB3	3:D:706:PRO:HD3	1.76	0.68
5:F:137:GLY:HA3	9:F:428:HOH:O	1.93	0.68
5:P:337:HIS:H	5:P:337:HIS:CD2	2.10	0.68
3:D:476:GLU:HG2	9:D:2405:HOH:O	1.93	0.68
3:N:1036:ARG:HH21	3:N:1043:GLY:H	1.40	0.68
2:C:343:GLN:HG2	2:C:385:PHE:HB2	1.76	0.68
2:C:395:LYS:HE2	2:C:403:SER:HB2	1.76	0.68
3:N:950:GLY:H	3:N:953:ASP:HB2	1.57	0.68
2:M:478:VAL:HA	2:M:506:ASN:O	1.94	0.68
2:C:808:ARG:HH21	2:C:820:ARG:HH22	1.42	0.68
2:M:672:VAL:HG23	2:M:868:ASP:HB2	1.75	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:60:ASP:HB2	9:L:3367:HOH:O	1.92	0.68
3:N:32:ILE:O	5:P:258:ILE:HG23	1.94	0.68
3:N:868:TYR:HD1	3:N:869:MET:H	1.39	0.68
1:B:210:ALA:HA	9:B:362:HOH:O	1.94	0.68
5:P:226:LYS:HB2	5:P:238:TYR:OH	1.94	0.68
2:C:1115:LEU:HD23	3:D:85:VAL:HA	1.76	0.67
3:N:183:GLU:HA	9:N:9906:HOH:O	1.94	0.67
4:O:25:LYS:HA	4:O:28:GLN:NE2	2.10	0.67
3:D:906:GLN:HB3	3:D:911:LEU:CD1	2.24	0.67
3:N:475:LYS:HA	3:N:478:LEU:HD12	1.74	0.67
3:N:639:LEU:HB3	9:N:9694:HOH:O	1.93	0.67
5:P:260:ILE:HG23	5:P:264:MET:HB2	1.75	0.67
3:D:1122:LEU:HD23	3:D:1178:ALA:HB2	1.75	0.67
3:D:195:VAL:HG13	9:D:9321:HOH:O	1.95	0.67
1:K:27:PRO:HG2	1:K:186:LEU:HD22	1.75	0.67
2:M:139:GLN:O	2:M:333:ILE:HA	1.94	0.67
3:N:1166:LEU:HD23	3:N:1166:LEU:H	1.58	0.67
1:K:101:LEU:HD23	1:K:102:LYS:N	2.09	0.67
3:D:1251:ASP:O	3:D:1270:ALA:HB3	1.94	0.67
2:C:105:THR:HA	9:C:9902:HOH:O	1.94	0.67
3:N:598:ARG:HB3	3:N:598:ARG:HH11	1.59	0.67
3:N:1046:GLN:HA	3:N:1052:THR:HA	1.76	0.67
1:A:28:LEU:HB3	9:A:371:HOH:O	1.94	0.67
3:D:162:ARG:HE	3:D:434:ARG:CZ	2.06	0.67
5:P:131:VAL:HG13	5:P:178:ARG:HG2	1.75	0.67
1:A:30:ARG:HB3	9:B:479:HOH:O	1.95	0.67
2:M:188:LYS:HB3	9:M:1279:HOH:O	1.93	0.67
3:N:478:LEU:HD21	3:N:500:ARG:HH21	1.58	0.67
2:M:136:ILE:HA	9:M:2131:HOH:O	1.94	0.67
2:M:379:GLU:O	2:M:383:ARG:HB3	1.94	0.67
3:D:1420:LEU:HD12	3:D:1421:LEU:H	1.58	0.67
5:F:152:ASP:HA	9:F:524:HOH:O	1.94	0.67
1:K:44:LEU:HD23	1:K:174:VAL:HG21	1.76	0.67
3:D:1109:GLU:OE1	3:D:1201:CYS:HB2	1.93	0.67
1:K:58:ILE:HB	1:K:61:VAL:HB	1.77	0.67
2:C:21:ILE:HD12	2:C:21:ILE:H	1.59	0.67
2:M:34:VAL:HB	2:M:38:LYS:HG3	1.76	0.67
2:C:971:LYS:HA	2:C:988:VAL:HA	1.76	0.67
3:N:571:LYS:HZ2	3:N:571:LYS:HB2	1.59	0.67
5:F:394:ARG:O	5:F:398:ARG:HG2	1.95	0.67
1:K:117:VAL:HB	1:K:120:VAL:CG1	2.24	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1112:CYS:HB3	3:D:1201:CYS:SG	2.34	0.67
3:D:1412:LYS:O	3:D:1414:PRO:HD3	1.93	0.67
1:B:99:LEU:HG	9:B:336:HOH:O	1.93	0.67
4:E:4:PRO:HB3	9:E:145:HOH:O	1.95	0.67
2:C:1069:ALA:HA	9:C:9874:HOH:O	1.93	0.67
2:C:987:ILE:HG23	3:D:948:THR:CG2	2.22	0.67
3:D:58:CYS:HA	3:D:78:VAL:HG11	1.76	0.67
3:D:1381:VAL:HB	3:D:1389:LEU:O	1.93	0.67
2:C:571:LEU:HD21	2:C:700:TYR:HD2	1.59	0.67
1:K:67:THR:HG21	2:M:609:ASN:HD21	1.60	0.67
5:F:401:GLU:O	5:F:405:LEU:HB3	1.94	0.67
3:N:185:VAL:HG22	9:N:2196:HOH:O	1.94	0.67
3:N:1031:ASN:HB2	3:N:1034:GLN:CD	2.15	0.67
2:C:329:GLY:N	2:C:488:ALA:HB3	2.09	0.67
2:C:707:ARG:HG3	2:C:826:TYR:CE1	2.30	0.67
3:N:699:VAL:H	3:N:756:GLN:NE2	1.91	0.67
2:C:444:PRO:HG2	2:C:452:ILE:HD12	1.76	0.67
2:M:1067:TYR:CB	5:P:341:PRO:HB3	2.24	0.67
3:N:208:PRO:HB2	3:N:395:VAL:HG22	1.76	0.67
5:P:256:ARG:HE	5:P:260:ILE:HD12	1.59	0.67
3:D:1410:GLU:HA	9:D:9114:HOH:O	1.93	0.67
3:D:833:GLU:HB2	9:D:9131:HOH:O	1.94	0.67
4:E:60:ALA:O	4:E:63:TRP:HB2	1.95	0.67
3:D:473:LEU:HD21	3:D:495:ARG:NH2	2.10	0.67
2:C:643:VAL:HB	9:C:2131:HOH:O	1.93	0.67
5:P:208:SER:HB3	5:P:211:ASP:OD2	1.95	0.67
3:D:525:ARG:HB2	3:D:541:ASN:ND2	2.09	0.67
3:D:584:ASN:HB2	3:D:602:SER:HB3	1.76	0.67
2:M:1018:GLN:NE2	2:M:1063:ARG:HH22	1.93	0.67
2:C:266:ARG:HB2	9:C:9463:HOH:O	1.95	0.67
3:N:12:LEU:HD11	3:N:512:MET:HG2	1.76	0.67
2:C:557:ARG:HB2	9:C:9255:HOH:O	1.95	0.67
2:M:577:PRO:HA	2:M:671:ASN:HD21	1.60	0.67
3:N:1103:HIS:CD2	3:N:1463:LYS:H	2.12	0.67
3:D:556:LYS:HD2	9:D:9137:HOH:O	1.95	0.67
2:M:679:PHE:HB3	9:M:1161:HOH:O	1.95	0.67
5:P:325:LYS:HE3	9:P:606:HOH:O	1.94	0.67
1:L:2:LEU:HD12	1:L:3:ASP:N	2.09	0.67
3:D:561:GLY:HA2	5:F:132:ARG:CZ	2.25	0.67
1:A:67:THR:HG21	2:C:627:ARG:HE	1.59	0.67
5:P:85:LEU:HA	5:P:88:ILE:HD12	1.75	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:54:ILE:HG22	2:M:66:LEU:HB3	1.75	0.67
3:N:436:GLU:HB2	3:N:445:ARG:HB3	1.75	0.67
3:N:1036:ARG:HH21	3:N:1043:GLY:N	1.93	0.67
2:M:464:LEU:HB2	9:M:1456:HOH:O	1.94	0.67
3:D:1046:GLN:HG3	9:D:2290:HOH:O	1.94	0.67
1:L:128:HIS:HA	9:L:8102:HOH:O	1.94	0.67
3:N:108:VAL:HB	3:N:109:PRO:HD3	1.77	0.67
2:C:58:ASP:O	2:C:59:LYS:HG2	1.95	0.67
3:N:1273:VAL:HG22	3:N:1326:THR:OG1	1.95	0.67
2:C:200:LEU:HB2	9:C:9470:HOH:O	1.92	0.67
2:C:301:GLU:HB3	9:C:2244:HOH:O	1.95	0.67
5:P:369:LEU:HD11	5:P:401:GLU:HB2	1.76	0.67
2:M:557:ARG:HG3	2:M:560:MET:SD	2.35	0.67
2:M:807:ARG:HH21	2:M:809:GLY:N	1.92	0.67
3:N:1104:GLU:HA	3:N:1461:GLY:HA2	1.77	0.67
3:D:1383:ASP:HB2	3:D:1416:ALA:HB3	1.75	0.67
2:C:305:PRO:HA	2:C:308:ARG:HB3	1.76	0.66
3:N:838:ARG:HG2	3:N:865:THR:OG1	1.96	0.66
2:C:630:ARG:NH2	2:C:705:ILE:HG22	2.10	0.66
2:C:139:GLN:HA	2:C:411:SER:O	1.95	0.66
3:D:1406:ARG:HG3	3:D:1412:LYS:HG3	1.76	0.66
2:C:347:GLY:HA2	2:C:350:ARG:HD2	1.77	0.66
3:N:159:ARG:NH1	3:N:159:ARG:HB2	2.10	0.66
2:C:89:THR:O	2:C:91:GLN:HG3	1.94	0.66
2:C:233:GLU:OE1	2:C:237:ARG:HD3	1.94	0.66
3:N:402:PRO:HG2	3:N:444:VAL:HG11	1.77	0.66
1:K:35:THR:HG21	1:L:43:ILE:HD11	1.76	0.66
3:D:179:VAL:HG13	3:D:389:GLU:HG3	1.76	0.66
3:D:739:ASP:HB2	3:D:741:ASP:OD1	1.95	0.66
1:K:206:THR:HB	1:K:209:GLU:OE1	1.94	0.66
3:D:486:ARG:HD3	3:D:489:ARG:HD3	1.78	0.66
1:L:7:LYS:HG3	9:L:2277:HOH:O	1.93	0.66
3:N:1343:ALA:HA	9:N:9264:HOH:O	1.95	0.66
1:K:48:ILE:HG22	1:K:173:PRO:HD2	1.75	0.66
3:N:706:PRO:HA	9:N:2193:HOH:O	1.94	0.66
3:D:591:VAL:HG11	9:D:9714:HOH:O	1.94	0.66
3:N:550:ARG:NE	3:N:573:MET:HB3	2.10	0.66
2:C:771:GLU:O	2:C:775:ARG:HG2	1.96	0.66
3:D:478:LEU:HD22	3:D:1388:ARG:CZ	2.24	0.66
3:D:215:TYR:O	3:D:389:GLU:HB2	1.94	0.66
2:M:368:THR:HB	2:M:369:PRO:HD3	1.77	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:O:25:LYS:HA	4:O:28:GLN:HE21	1.60	0.66
3:N:28:LYS:HG3	3:N:29:PRO:HD2	1.75	0.66
3:D:1462:LEU:HD22	3:D:1472:ILE:HG23	1.78	0.66
2:C:341:THR:O	2:C:345:ARG:HG2	1.96	0.66
2:C:430:VAL:HG13	3:D:1075:HIS:HA	1.78	0.66
2:M:333:ILE:HD13	2:M:467:ILE:HG13	1.76	0.66
5:P:102:LEU:O	5:P:106:VAL:HG23	1.95	0.66
2:M:700:TYR:HB3	2:M:833:LEU:HD13	1.77	0.66
3:D:1341:PRO:HA	3:D:1344:VAL:HG23	1.76	0.66
3:D:171:LEU:HB2	3:D:390:PRO:HA	1.77	0.66
2:C:135:VAL:HG11	2:C:407:LYS:HA	1.76	0.66
3:N:14:SER:H	3:N:17:LYS:HZ1	1.40	0.66
2:M:524:VAL:CG1	2:M:528:GLU:HB2	2.25	0.66
2:M:752:GLY:C	2:M:791:ARG:HH12	1.99	0.66
1:K:54:THR:HG21	9:K:6055:HOH:O	1.95	0.66
2:M:399:ASN:HB3	2:M:568:ALA:O	1.94	0.66
2:M:399:ASN:OD1	2:M:668:LEU:HD23	1.95	0.66
3:N:407:VAL:HG23	3:N:408:GLU:H	1.61	0.66
3:N:851:LEU:HD23	3:N:851:LEU:N	2.11	0.66
1:K:115:LEU:HB3	9:K:1554:HOH:O	1.95	0.66
5:F:213:ILE:HG22	5:F:217:ASN:HD21	1.59	0.66
3:N:52:PRO:CB	3:N:80:VAL:HG13	2.25	0.66
3:D:704:ARG:NE	3:D:705:ALA:H	1.92	0.66
3:N:1094:LEU:O	3:N:1098:LEU:HD13	1.95	0.66
2:C:172:ILE:H	2:C:172:ILE:HD12	1.61	0.66
1:L:97:VAL:HG11	1:L:120:VAL:HG21	1.78	0.66
3:N:676:MET:HG3	9:N:9172:HOH:O	1.95	0.66
4:O:30:LEU:O	4:O:35:PHE:HA	1.94	0.66
5:P:294:ALA:HB2	9:P:703:HOH:O	1.95	0.66
2:C:573:ARG:HB3	2:C:573:ARG:NH1	2.10	0.66
2:C:517:ARG:NH1	2:C:522:VAL:HG11	2.10	0.66
3:D:697:GLY:HA3	9:E:163:HOH:O	1.96	0.66
2:C:95:TYR:CD2	2:C:114:PHE:HB3	2.30	0.66
3:N:153:LEU:HD11	3:N:158:TYR:N	2.10	0.66
2:C:1051:GLU:HG2	2:C:1056:LYS:HD2	1.77	0.66
2:M:437:ARG:NH2	2:M:488:ALA:HA	2.11	0.66
2:M:129:ILE:HG12	2:M:386:PHE:HB3	1.76	0.66
2:M:36:PRO:HB3	9:M:1400:HOH:O	1.95	0.66
4:O:32:ARG:HD2	9:O:3515:HOH:O	1.96	0.66
2:C:478:VAL:HG23	9:C:9012:HOH:O	1.95	0.66
3:D:156:GLU:HA	3:D:159:ARG:NH1	2.11	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:O:88:GLU:HA	4:O:91:ARG:HD3	1.77	0.66
3:N:966:GLU:HA	3:N:969:ARG:NH1	2.11	0.66
3:N:463:GLN:HA	9:N:9553:HOH:O	1.94	0.66
5:P:228:GLU:HB3	9:P:688:HOH:O	1.95	0.66
3:D:1049:SER:HB3	9:D:9906:HOH:O	1.96	0.66
3:D:9:ARG:HA	3:D:1434:TRP:HH2	1.60	0.66
5:F:321:ILE:HB	5:F:327:SER:OG	1.96	0.66
3:D:908:LYS:CB	3:D:1027:GLY:HA3	2.26	0.66
2:M:328:LEU:H	2:M:433:THR:HG21	1.61	0.66
5:P:364:ARG:NH1	5:P:392:VAL:HG21	2.11	0.66
1:L:101:LEU:HD11	1:L:113:ASP:HB2	1.78	0.66
3:D:1270:ALA:HB1	9:D:9354:HOH:O	1.96	0.66
2:C:21:ILE:HG13	9:C:9635:HOH:O	1.95	0.66
1:K:52:ALA:HA	9:K:3135:HOH:O	1.96	0.66
2:M:442:GLU:OE1	2:M:454:SER:HB2	1.96	0.66
5:P:166:LEU:O	5:P:171:LYS:HB2	1.96	0.66
3:N:30:GLU:HB3	3:N:40:GLU:HG2	1.77	0.66
5:F:367:MET:HA	5:F:370:LYS:HZ3	1.61	0.66
2:M:691:SER:HB2	2:M:858:MET:SD	2.36	0.66
3:N:705:ALA:HB3	3:N:706:PRO:HD3	1.77	0.66
2:M:927:GLY:HA2	2:M:930:LYS:HE3	1.78	0.66
2:C:17:PRO:HB2	9:C:9051:HOH:O	1.94	0.66
3:N:978:TYR:HA	9:N:9792:HOH:O	1.95	0.66
3:D:44:LEU:HB3	3:D:525:ARG:HH21	1.60	0.66
2:C:200:LEU:HD13	2:C:300:ASP:CG	2.17	0.66
2:C:859:PRO:O	2:C:867:VAL:HG22	1.96	0.66
3:D:1144:LEU:HB3	3:D:1166:LEU:HD11	1.77	0.66
5:F:263:HIS:HA	9:F:739:HOH:O	1.96	0.66
3:D:1266:ARG:O	3:D:1268:PRO:HD3	1.96	0.66
1:B:148:VAL:HG22	9:B:473:HOH:O	1.96	0.66
2:C:663:ASN:HB3	9:C:9386:HOH:O	1.96	0.66
2:C:640:ARG:HB2	2:C:642:ARG:HH22	1.60	0.66
1:K:110:LYS:HB2	1:K:112:ARG:HD3	1.78	0.66
3:D:795:VAL:HG23	3:D:879:ARG:NH1	2.10	0.65
3:D:1336:LEU:HA	3:D:1344:VAL:HG22	1.77	0.65
1:B:114:PHE:HB3	9:B:336:HOH:O	1.96	0.65
5:P:300:ASP:HB3	9:P:517:HOH:O	1.96	0.65
5:P:142:ARG:HH11	5:P:142:ARG:HB3	1.61	0.65
2:M:139:GLN:HB3	2:M:334:ARG:HB2	1.77	0.65
3:N:165:LYS:HE2	3:N:165:LYS:HA	1.78	0.65
1:B:84:GLU:HG3	1:B:127:LEU:HD21	1.78	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:173:PRO:HA	1:K:202:ASP:OD2	1.95	0.65
1:K:221:HIS:HA	1:K:224:TYR:CD2	2.31	0.65
2:C:715:THR:HA	9:C:9273:HOH:O	1.95	0.65
2:M:944:LEU:HD21	2:M:963:LEU:HD23	1.78	0.65
1:L:94:LEU:HD21	1:L:119:ASP:HB2	1.76	0.65
3:N:785:ILE:HD12	3:N:785:ILE:H	1.61	0.65
3:D:396:VAL:HG21	3:D:447:VAL:HB	1.78	0.65
2:C:108:ILE:H	2:C:108:ILE:HD12	1.62	0.65
2:C:877:PRO:HG2	3:D:1023:MET:SD	2.36	0.65
3:N:644:LEU:HD12	3:N:645:PRO:HD2	1.78	0.65
2:C:1000:MET:HB3	9:C:9943:HOH:O	1.96	0.65
5:P:317:LEU:O	5:P:329:TYR:HB3	1.96	0.65
3:N:1124:GLN:N	3:N:1133:ARG:O	2.28	0.65
1:K:101:LEU:HD12	1:K:114:PHE:CD1	2.30	0.65
2:M:203:ASP:HB2	9:M:1502:HOH:O	1.95	0.65
1:A:206:THR:HG23	1:A:209:GLU:H	1.61	0.65
2:C:1009:SER:HB2	3:D:651:GLU:O	1.96	0.65
3:N:611:GLN:HA	3:N:615:ARG:HD3	1.77	0.65
9:M:1817:HOH:O	3:N:618:LEU:HD22	1.96	0.65
1:K:130:ALA:HB1	9:K:2174:HOH:O	1.96	0.65
3:N:1090:ASP:O	3:N:1093:TYR:HB3	1.97	0.65
3:N:178:LEU:HG	3:N:200:ASP:H	1.61	0.65
5:P:130:VAL:HG21	5:P:159:ILE:HG21	1.78	0.65
5:F:365:GLU:CD	5:F:397:ILE:HA	2.16	0.65
3:D:953:ASP:HA	9:D:9280:HOH:O	1.95	0.65
3:N:119:SER:HB2	3:N:123:LEU:HD12	1.79	0.65
1:L:138:LEU:HA	9:L:2434:HOH:O	1.96	0.65
2:M:52:PHE:CD2	2:M:68:PHE:HB2	2.31	0.65
3:N:1103:HIS:HD2	3:N:1463:LYS:H	1.43	0.65
1:B:175:ARG:HD3	9:B:363:HOH:O	1.95	0.65
2:M:200:LEU:HD13	2:M:300:ASP:CG	2.17	0.65
3:D:530:VAL:HA	9:D:9200:HOH:O	1.95	0.65
2:M:436:GLY:HA2	2:M:538:GLN:O	1.97	0.65
2:M:385:PHE:HA	9:M:2038:HOH:O	1.96	0.65
2:M:1067:TYR:HB2	5:P:341:PRO:HB3	1.79	0.65
1:A:198:ARG:HB2	1:A:200:TRP:CH2	2.31	0.65
1:B:148:VAL:HA	9:B:484:HOH:O	1.95	0.65
1:A:107:LYS:HD3	9:A:441:HOH:O	1.95	0.65
4:O:39:VAL:HG21	4:O:72:ARG:HG3	1.79	0.65
1:B:52:ALA:HB1	9:B:421:HOH:O	1.96	0.65
5:P:220:LEU:O	5:P:224:VAL:HG23	1.96	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:601:GLY:HA2	2:M:616:GLU:HG2	1.77	0.65
2:M:392:SER:HA	9:M:2131:HOH:O	1.96	0.65
2:C:573:ARG:HH11	2:C:573:ARG:HB3	1.60	0.65
2:M:206:THR:HG23	9:M:1678:HOH:O	1.95	0.65
3:D:1277:ILE:HD13	3:D:1301:LYS:HB2	1.78	0.65
5:F:419:ARG:HB3	9:F:881:HOH:O	1.96	0.65
2:M:705:ILE:HG13	9:M:1341:HOH:O	1.95	0.65
2:M:189:ARG:HG2	9:M:1250:HOH:O	1.94	0.65
3:N:820:GLU:HG2	9:N:2025:HOH:O	1.95	0.65
2:M:391:LEU:HD23	9:M:2131:HOH:O	1.95	0.65
2:C:244:PRO:HG2	2:C:246:ASP:OD2	1.97	0.65
2:M:707:ARG:HD2	2:M:824:ARG:HD3	1.79	0.65
3:N:586:ARG:HA	3:N:586:ARG:HE	1.62	0.65
2:C:297:GLU:HA	9:C:2292:HOH:O	1.97	0.65
2:C:660:ALA:HB1	2:C:667:ALA:O	1.97	0.65
2:M:1054:THR:HG21	2:M:1079:PRO:HB3	1.77	0.65
3:D:605:ASP:HB3	9:D:2354:HOH:O	1.96	0.65
2:M:524:VAL:HG13	2:M:528:GLU:HB2	1.78	0.65
5:F:261:PRO:HB2	9:F:740:HOH:O	1.96	0.65
1:A:102:LYS:HG3	1:A:139:ASN:HB2	1.78	0.65
1:A:177:VAL:HG12	9:A:348:HOH:O	1.97	0.65
2:M:1070:ILE:HD13	9:N:9414:HOH:O	1.95	0.65
2:M:1081:VAL:HG23	9:M:2183:HOH:O	1.97	0.65
2:C:305:PRO:HG3	2:C:308:ARG:NH2	2.12	0.65
2:C:199:VAL:HG21	9:C:2185:HOH:O	1.96	0.65
5:F:358:LEU:HD11	5:F:370:LYS:NZ	2.11	0.65
2:M:909:ALA:HB1	2:M:914:ILE:HD11	1.77	0.65
5:P:321:ILE:HG22	5:P:322:GLY:H	1.61	0.65
3:N:1314:LYS:HD3	3:N:1314:LYS:H	1.61	0.65
5:F:134:LYS:HD3	9:F:603:HOH:O	1.96	0.65
3:N:1146:GLY:HA3	3:N:1207:TYR:HB2	1.79	0.65
2:M:715:THR:HB	2:M:717:LEU:HG	1.79	0.65
5:P:148:LYS:HG2	9:P:660:HOH:O	1.97	0.65
2:C:332:ARG:NE	2:C:464:LEU:HD11	2.11	0.65
3:D:567:ILE:HG22	3:D:571:LYS:NZ	2.12	0.65
1:A:14:ARG:HH22	1:A:24:VAL:HG23	1.61	0.65
1:L:65:PHE:CD1	3:N:813:LEU:HD22	2.32	0.65
3:N:677:LEU:HD21	9:N:9954:HOH:O	1.96	0.65
3:N:1123:PHE:HA	3:N:1134:LEU:HA	1.78	0.65
1:A:32:PHE:HB2	9:A:371:HOH:O	1.97	0.65
2:C:511:GLU:O	2:C:526:PRO:HD3	1.97	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:33:ASN:OD1	5:P:259:ARG:HB3	1.97	0.65
2:M:244:PRO:HG2	2:M:246:ASP:OD2	1.97	0.65
2:C:113:VAL:HG22	9:C:9942:HOH:O	1.97	0.65
2:C:141:HIS:HB3	2:C:418:LEU:HB3	1.78	0.64
2:M:583:LEU:O	2:M:587:VAL:HG23	1.96	0.64
2:M:1013:TYR:O	5:P:334:PRO:HA	1.98	0.64
2:C:405:ARG:HD2	2:C:442:GLU:OE1	1.97	0.64
1:A:198:ARG:HG2	9:A:399:HOH:O	1.97	0.64
1:A:19:GLU:HG2	9:A:420:HOH:O	1.97	0.64
3:N:1258:ARG:O	3:N:1262:LEU:HD13	1.97	0.64
2:M:841:ASN:HD21	2:M:845:ASN:H	1.41	0.64
2:C:22:GLN:NE2	2:C:336:VAL:HG21	2.11	0.64
3:D:1153:VAL:HG12	3:D:1155:VAL:HG23	1.78	0.64
2:M:1077:PRO:HD2	9:M:1399:HOH:O	1.97	0.64
5:F:369:LEU:HD23	9:F:706:HOH:O	1.97	0.64
2:C:516:ARG:HD3	2:C:521:PRO:HA	1.78	0.64
2:C:555:ALA:HB2	3:D:1070:TYR:CE2	2.33	0.64
3:N:963:TYR:CD2	3:N:1002:LYS:HB3	2.33	0.64
3:D:153:LEU:HD11	3:D:158:TYR:N	2.12	0.64
2:M:633:GLN:NE2	2:M:633:GLN:H	1.94	0.64
2:M:1101:THR:HB	3:N:5:VAL:HG13	1.79	0.64
2:M:471:TYR:CE2	2:M:496:ILE:HG21	2.32	0.64
1:B:30:ARG:HH21	2:C:854:PRO:HG3	1.62	0.64
3:N:505:SER:HB2	9:N:9588:HOH:O	1.96	0.64
3:D:108:VAL:HB	9:D:9934:HOH:O	1.95	0.64
1:A:160:ASP:HB2	9:A:396:HOH:O	1.96	0.64
3:N:434:ARG:HB2	3:N:447:VAL:HG13	1.79	0.64
2:M:412:ALA:HB2	2:M:451:LEU:HB3	1.78	0.64
4:E:67:GLU:OE1	4:E:73:LEU:HD11	1.97	0.64
5:P:323:ASP:HB3	5:P:325:LYS:NZ	2.13	0.64
3:D:443:VAL:HG12	3:D:445:ARG:HD2	1.79	0.64
2:C:911:GLU:O	2:C:915:LYS:HG2	1.98	0.64
2:C:648:ARG:HB3	9:C:9104:HOH:O	1.96	0.64
2:C:236:ILE:HG13	9:C:9361:HOH:O	1.95	0.64
2:C:1091:GLU:HG2	3:D:606:ILE:HG21	1.78	0.64
3:D:584:ASN:HB3	9:D:2028:HOH:O	1.97	0.64
1:L:2:LEU:HD12	1:L:3:ASP:H	1.61	0.64
2:C:64:LEU:HD11	9:C:9063:HOH:O	1.96	0.64
3:N:57:GLU:HG3	3:N:64:LYS:HD2	1.80	0.64
2:C:886:LEU:HD23	3:D:951:ILE:HG13	1.79	0.64
2:M:184:MET:HE1	2:M:186:VAL:HG13	1.80	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:19:THR:HG22	2:M:22:GLN:HB2	1.78	0.64
2:M:163:ILE:HB	2:M:171:TRP:CH2	2.32	0.64
5:P:88:ILE:CD1	5:P:193:ARG:HB2	2.27	0.64
3:N:1156:LEU:HD21	3:N:1177:ALA:HA	1.79	0.64
2:C:193:LEU:HD23	2:C:307:LEU:HD13	1.79	0.64
5:F:278:LEU:HB3	5:F:286:PRO:HG2	1.79	0.64
2:C:113:VAL:HG13	9:C:9301:HOH:O	1.97	0.64
3:D:531:ASP:C	3:D:533:GLY:H	1.98	0.64
2:C:841:ASN:HD21	2:C:845:ASN:H	1.45	0.64
4:E:48:MET:N	4:E:54:LEU:HB2	2.11	0.64
3:D:421:LEU:HG	9:D:9719:HOH:O	1.96	0.64
3:D:1272:ALA:HA	3:D:1326:THR:HB	1.79	0.64
3:D:1040:GLY:O	3:D:1060:SER:HB3	1.97	0.64
5:P:363:GLU:HA	5:P:367:MET:CE	2.28	0.64
3:D:809:PRO:HB2	3:D:812:ALA:HB2	1.80	0.64
3:N:1019:PRO:O	3:N:1023:MET:HG3	1.98	0.64
3:D:1046:GLN:HG2	9:D:2120:HOH:O	1.97	0.64
3:N:658:LEU:HD11	3:N:674:ARG:HH11	1.61	0.64
3:D:1236:LEU:HA	3:D:1359:GLN:HE22	1.62	0.64
4:O:60:ALA:O	4:O:63:TRP:HB2	1.96	0.64
3:D:149:LYS:HB2	9:D:2218:HOH:O	1.96	0.64
9:M:1244:HOH:O	3:N:651:GLU:HG3	1.97	0.64
3:D:783:ARG:NH1	3:D:1029:ARG:HG2	2.13	0.64
2:C:634:GLY:HA3	9:C:9222:HOH:O	1.97	0.64
3:D:15:PRO:HB2	9:D:9195:HOH:O	1.97	0.64
1:K:150:TYR:CD1	2:M:696:LYS:HG2	2.33	0.64
3:D:730:PRO:HA	3:D:733:CYS:SG	2.37	0.64
2:C:1008:ARG:HE	2:C:1028:GLY:CA	2.09	0.64
5:F:356:LYS:O	5:F:360:LYS:HG2	1.97	0.64
3:D:679:ARG:HB2	3:D:682:ASP:OD1	1.98	0.64
3:D:131:LYS:O	3:D:133:ILE:HD13	1.98	0.64
1:B:151:VAL:HG13	1:B:155:LYS:HE2	1.80	0.64
2:C:549:PHE:CD2	2:C:886:LEU:HB3	2.33	0.64
2:C:338:GLU:HA	2:C:341:THR:HG22	1.80	0.64
2:M:983:ILE:HA	9:N:9416:HOH:O	1.98	0.64
2:M:549:PHE:CZ	2:M:886:LEU:HD22	2.33	0.64
2:M:660:ALA:HB1	2:M:667:ALA:O	1.97	0.64
4:O:82:GLU:HB3	9:O:4692:HOH:O	1.98	0.64
5:F:402:ASN:HA	5:F:405:LEU:HD22	1.80	0.64
2:M:839:LEU:HD21	2:M:849:VAL:HG23	1.78	0.64
3:D:633:VAL:HB	3:D:740:PHE:CE1	2.33	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:E:42:PRO:HB3	9:E:201:HOH:O	1.98	0.64
1:B:56:VAL:HG13	1:B:142:VAL:HG12	1.80	0.64
2:M:232:GLU:HA	2:M:235:LEU:HD12	1.80	0.64
5:P:163:LEU:HB3	5:P:174:LEU:CG	2.26	0.64
3:N:681:ARG:HH11	3:N:681:ARG:HB3	1.62	0.64
2:C:93:PRO:HG3	2:C:117:HIS:HE1	1.63	0.64
5:F:423:ASP:HB3	9:F:486:HOH:O	1.96	0.64
5:F:352:GLU:O	5:F:356:LYS:HG3	1.96	0.64
1:L:108:GLU:HG2	9:L:2371:HOH:O	1.98	0.64
2:C:676:ILE:O	2:C:676:ILE:HG23	1.97	0.64
2:C:470:PRO:HG2	2:C:538:GLN:OE1	1.98	0.64
3:N:427:VAL:CG2	3:N:435:VAL:HB	2.28	0.64
3:D:1166:LEU:HD12	3:D:1171:VAL:HG22	1.78	0.64
2:C:318:PRO:HA	9:C:9945:HOH:O	1.98	0.64
3:D:655:PRO:HA	3:D:658:LEU:HD12	1.78	0.64
3:N:616:GLN:NE2	3:N:619:LEU:HB2	2.13	0.64
2:M:707:ARG:HE	2:M:824:ARG:HG2	1.62	0.64
2:M:704:HIS:HB2	2:M:831:ARG:HE	1.63	0.64
2:M:151:ASP:HB3	9:M:2281:HOH:O	1.96	0.64
3:N:426:LYS:HG3	3:N:434:ARG:NH1	2.13	0.64
5:F:93:LEU:HD11	5:F:102:LEU:HD12	1.80	0.64
2:M:326:ASP:HB2	2:M:431:HIS:ND1	2.13	0.64
3:D:634:GLY:O	3:D:637:LEU:HB3	1.97	0.64
1:A:195:LEU:HG	1:A:197:LEU:CD2	2.28	0.64
1:B:47:SER:O	1:B:49:PRO:N	2.31	0.64
2:M:244:PRO:HD2	2:M:245:GLY:H	1.62	0.64
2:C:144:PRO:HA	2:C:163:ILE:HG12	1.78	0.64
2:C:56:GLU:HB3	9:C:9080:HOH:O	1.98	0.64
2:M:516:ARG:NE	3:N:1068:LEU:HD13	2.12	0.64
3:D:1304:LYS:HD2	9:D:2220:HOH:O	1.96	0.64
3:D:1279:GLY:O	3:D:1318:TYR:HA	1.98	0.64
2:C:433:THR:HG21	2:C:488:ALA:CB	2.27	0.64
3:D:906:GLN:HB3	3:D:911:LEU:HD11	1.80	0.64
3:N:558:LEU:HB3	9:N:9936:HOH:O	1.98	0.64
2:C:397:GLU:H	2:C:633:GLN:HE22	1.44	0.64
3:D:625:TYR:O	3:D:749:VAL:HG23	1.98	0.64
3:N:588:GLY:HA3	9:N:9410:HOH:O	1.98	0.64
2:M:971:LYS:HA	2:M:988:VAL:HA	1.79	0.64
2:C:627:ARG:HG3	2:C:628:PHE:H	1.62	0.63
3:D:16:GLU:HA	9:D:9380:HOH:O	1.97	0.63
1:L:80:LEU:HB3	3:N:867:ARG:NH2	2.13	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:11:PHE:CD1	1:B:225:PHE:HA	2.33	0.63
3:D:965:GLU:HB2	9:D:9122:HOH:O	1.98	0.63
2:M:758:ARG:HB3	2:M:788:THR:O	1.98	0.63
2:C:578:VAL:HG11	2:C:991:GLN:HB3	1.80	0.63
3:N:1209:LEU:HD22	3:N:1211:MET:HB3	1.79	0.63
3:N:850:LEU:H	3:N:850:LEU:HD12	1.63	0.63
3:N:1301:LYS:HD2	9:N:9125:HOH:O	1.99	0.63
5:P:260:ILE:HD11	5:P:310:ILE:HG22	1.79	0.63
1:A:48:ILE:HG22	1:A:173:PRO:HD2	1.80	0.63
1:A:132:LEU:HG	9:A:468:HOH:O	1.98	0.63
2:M:148:PHE:HZ	2:M:281:LEU:HD13	1.64	0.63
3:N:52:PRO:CG	3:N:78:VAL:HG13	2.28	0.63
2:M:150:PRO:HD3	9:M:1445:HOH:O	1.98	0.63
3:N:1112:CYS:HB3	3:N:1201:CYS:SG	2.37	0.63
5:P:403:LYS:NZ	5:P:406:ARG:HD2	2.13	0.63
4:E:90:GLU:HG2	9:E:191:HOH:O	1.98	0.63
2:M:342:ASP:O	2:M:346:VAL:HG23	1.97	0.63
3:N:1350:GLU:O	3:N:1354:LYS:HG2	1.98	0.63
3:D:27:GLU:O	3:D:28:LYS:HD2	1.97	0.63
1:K:186:LEU:HB3	9:K:1397:HOH:O	1.97	0.63
2:C:356:ARG:HA	9:C:9403:HOH:O	1.98	0.63
3:D:1394:VAL:HB	3:D:1397:LYS:HD2	1.80	0.63
3:D:1432:LYS:HG3	3:D:1433:SER:H	1.64	0.63
1:A:37:GLY:HA3	1:A:179:PHE:CD1	2.34	0.63
9:D:2160:HOH:O	4:E:60:ALA:HB3	1.98	0.63
3:N:1272:ALA:HA	3:N:1326:THR:HB	1.79	0.63
2:C:162:ILE:HD12	2:C:172:ILE:HB	1.80	0.63
3:N:762:GLN:HA	9:N:9292:HOH:O	1.98	0.63
1:B:86:VAL:HG21	9:B:450:HOH:O	1.98	0.63
5:P:207:LEU:HB3	5:P:212:LEU:HG	1.81	0.63
2:C:432:ARG:HH11	3:D:1048:PRO:CD	2.11	0.63
2:M:290:LEU:H	2:M:290:LEU:HD23	1.63	0.63
3:D:9:ARG:NH1	3:D:506:GLY:HA2	2.09	0.63
5:P:370:LYS:HZ3	5:P:370:LYS:HB3	1.64	0.63
1:B:166:PRO:HD3	9:B:334:HOH:O	1.99	0.63
2:C:139:GLN:OE1	2:C:415:PRO:HD3	1.98	0.63
3:D:675:ARG:O	3:D:678:GLU:HG2	1.97	0.63
2:C:285:LEU:HD12	2:C:288:ARG:O	1.97	0.63
2:C:260:LEU:HA	2:C:291:ALA:CB	2.29	0.63
3:D:213:VAL:HG22	3:D:214:GLU:H	1.64	0.63
5:P:351:SER:O	5:P:355:GLU:HB2	1.98	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:569:VAL:HG23	2:C:635:THR:HG22	1.80	0.63
2:C:838:LYS:HD2	2:C:846:LYS:HZ2	1.62	0.63
2:M:89:THR:O	2:M:91:GLN:HG3	1.99	0.63
5:F:405:LEU:HD23	5:F:406:ARG:HG3	1.80	0.63
3:N:476:GLU:HG2	9:N:9517:HOH:O	1.97	0.63
2:C:732:ALA:HB2	9:C:9589:HOH:O	1.97	0.63
2:C:701:THR:HG23	2:C:832:LYS:HA	1.81	0.63
3:N:1406:ARG:HA	9:N:9360:HOH:O	1.98	0.63
2:M:333:ILE:CD1	2:M:467:ILE:HG13	2.29	0.63
1:K:218:LEU:HD23	1:L:222:LEU:HD21	1.79	0.63
3:D:115:LEU:HD22	3:D:502:PHE:HE1	1.63	0.63
3:N:416:ALA:HB2	9:N:9328:HOH:O	1.97	0.63
2:M:511:GLU:O	2:M:526:PRO:HD3	1.97	0.63
2:M:915:LYS:HE2	9:M:1347:HOH:O	1.96	0.63
3:N:53:ILE:HG23	3:N:54:LYS:H	1.63	0.63
1:L:226:SER:O	1:L:228:PRO:HD3	1.98	0.63
4:O:86:GLN:O	4:O:90:GLU:HG3	1.97	0.63
3:N:1123:PHE:HA	3:N:1135:ARG:N	2.13	0.63
2:C:146:VAL:HG22	2:C:162:ILE:HA	1.81	0.63
4:O:51:LEU:HB3	9:O:1519:HOH:O	1.98	0.63
3:N:1036:ARG:NH2	3:N:1043:GLY:H	1.96	0.63
3:D:540:LEU:HD23	3:D:544:TYR:HE2	1.63	0.63
2:C:52:PHE:CG	2:C:68:PHE:HB2	2.34	0.63
2:C:876:VAL:HG11	3:D:949:ILE:HG21	1.81	0.63
3:D:1147:ARG:HB3	3:D:1188:VAL:CG2	2.29	0.63
3:D:1171:VAL:HG11	9:D:2295:HOH:O	1.98	0.63
2:M:534:VAL:H	2:M:538:GLN:HE22	1.44	0.63
2:C:583:LEU:HA	9:C:9499:HOH:O	1.98	0.63
2:M:18:LEU:HD23	2:M:404:LEU:HD21	1.80	0.63
1:L:192:LEU:HB3	9:L:7412:HOH:O	1.97	0.63
1:K:110:LYS:HG2	9:K:1619:HOH:O	1.99	0.63
2:M:61:LYS:HE3	9:M:1475:HOH:O	1.99	0.63
3:N:169:TYR:HD1	3:N:169:TYR:H	1.47	0.63
3:N:623:VAL:HG11	9:N:9408:HOH:O	1.97	0.63
2:M:556:ASN:HA	9:M:1583:HOH:O	1.99	0.63
3:D:1364:HIS:CE1	3:D:1366:LYS:HG3	2.34	0.62
1:L:36:LEU:O	1:L:39:PRO:HD2	1.99	0.62
2:C:196:LEU:HD23	2:C:200:LEU:HD11	1.81	0.62
3:D:796:ARG:HH11	3:D:861:GLN:HB2	1.64	0.62
2:M:1030:GLN:O	3:N:622:ARG:HA	1.99	0.62
2:M:789:SER:O	2:M:791:ARG:HG2	1.98	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:218:LEU:O	1:K:222:LEU:HD23	1.99	0.62
2:M:1080:SER:HA	9:M:1525:HOH:O	1.99	0.62
3:N:546:ARG:NH1	3:N:546:ARG:HB3	2.14	0.62
2:C:197:LEU:HA	2:C:200:LEU:HD12	1.80	0.62
3:N:820:GLU:HG3	3:N:836:VAL:HG11	1.81	0.62
3:N:58:CYS:SG	3:N:59:ALA:N	2.70	0.62
3:N:898:GLU:CB	3:N:921:ARG:HH22	2.12	0.62
1:B:119:ASP:HB3	9:B:530:HOH:O	1.99	0.62
2:M:904:PRO:HB3	9:M:1233:HOH:O	1.99	0.62
3:D:1031:ASN:HB2	3:D:1034:GLN:CD	2.19	0.62
3:D:1274:ILE:HD11	3:D:1334:GLN:HB3	1.81	0.62
2:C:195:LEU:HD12	2:C:195:LEU:O	1.99	0.62
2:C:276:LYS:HB3	9:C:9614:HOH:O	1.99	0.62
2:M:741:GLY:HA3	9:M:1290:HOH:O	1.99	0.62
3:D:142:LEU:HA	9:D:9393:HOH:O	1.99	0.62
2:M:651:LYS:HA	9:M:1401:HOH:O	1.98	0.62
3:D:1157:GLY:HA2	9:D:9373:HOH:O	1.98	0.62
3:D:1299:PHE:HB2	9:D:9335:HOH:O	1.99	0.62
3:N:1061:PHE:HA	9:N:9209:HOH:O	1.98	0.62
1:K:109:VAL:HG23	1:K:132:LEU:HD13	1.81	0.62
2:C:92:ALA:HB1	9:C:9317:HOH:O	1.99	0.62
3:D:57:GLU:HG2	3:D:58:CYS:N	2.14	0.62
1:B:151:VAL:HB	1:B:169:ALA:HB3	1.82	0.62
2:C:141:HIS:HB3	2:C:418:LEU:CB	2.28	0.62
5:F:363:GLU:HA	5:F:367:MET:CE	2.28	0.62
2:M:1017:THR:OG1	2:M:1019:GLN:HG2	1.99	0.62
1:A:6:LEU:HD22	9:A:444:HOH:O	1.98	0.62
3:N:220:ARG:HA	9:N:2310:HOH:O	1.97	0.62
3:N:1279:GLY:O	3:N:1318:TYR:HA	1.99	0.62
3:D:1399:ASP:O	3:D:1403:LEU:HB2	2.00	0.62
5:P:416:ARG:HD2	5:P:419:ARG:HB3	1.81	0.62
2:M:1018:GLN:HB3	9:M:1172:HOH:O	1.98	0.62
3:N:87:ARG:HB3	3:N:523:ASP:HB2	1.81	0.62
2:C:773:LEU:O	2:C:777:ILE:HG13	2.00	0.62
3:N:213:VAL:HG21	9:N:9906:HOH:O	1.99	0.62
2:C:137:VAL:HG23	2:C:391:LEU:HG	1.81	0.62
3:D:210:ARG:HG3	3:D:398:ALA:H	1.65	0.62
3:D:1152:GLU:CD	3:D:1159:ARG:HH12	2.03	0.62
1:K:30:ARG:HG2	9:N:9299:HOH:O	1.99	0.62
3:D:1205:TYR:HE1	3:D:1221:VAL:HG13	1.64	0.62
2:C:863:ASP:OD1	2:C:865:THR:HG22	1.99	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:723:THR:HG23	2:M:725:ASP:HB2	1.82	0.62
5:F:200:LYS:HD2	5:F:209:PHE:CZ	2.34	0.62
2:C:669:GLY:HA3	2:C:995:MET:HA	1.82	0.62
2:M:285:LEU:O	2:M:285:LEU:HD23	1.99	0.62
3:N:684:LYS:HB2	3:N:686:GLU:HG3	1.81	0.62
1:L:185:ARG:HG2	9:L:1387:HOH:O	1.98	0.62
5:P:337:HIS:H	5:P:337:HIS:HD2	1.46	0.62
1:B:124:ASN:HA	9:B:457:HOH:O	1.99	0.62
5:P:230:LYS:HB2	9:P:688:HOH:O	1.99	0.62
5:F:111:GLU:O	5:F:115:LYS:HG2	1.99	0.62
2:C:816:LYS:HB2	2:C:819:VAL:HG21	1.81	0.62
3:D:482:LYS:HD2	9:D:2394:HOH:O	1.98	0.62
2:C:248:PRO:HD3	9:C:9626:HOH:O	1.98	0.62
2:C:1118:LYS:HD3	3:D:20:SER:O	1.99	0.62
3:N:186:VAL:HG11	9:N:9906:HOH:O	1.98	0.62
1:A:184:THR:HB	1:A:194:LYS:HE2	1.81	0.62
3:N:57:GLU:HG2	3:N:58:CYS:O	2.00	0.62
5:F:367:MET:HA	5:F:370:LYS:NZ	2.15	0.62
3:N:119:SER:N	3:N:123:LEU:HB2	2.13	0.62
1:B:186:LEU:HD22	1:B:192:LEU:HD11	1.81	0.62
1:A:179:PHE:HD1	1:A:195:LEU:HD11	1.63	0.62
2:C:420:ARG:HD2	2:C:420:ARG:H	1.65	0.62
3:D:1291:SER:HB2	3:D:1293:PHE:HE1	1.65	0.62
3:N:477:LEU:HD21	3:N:495:ARG:HH11	1.64	0.62
2:M:1014:SER:HB2	5:P:331:ASP:O	1.99	0.62
5:P:155:THR:HA	5:P:158:GLU:OE2	2.00	0.62
2:C:1025:ALA:HB3	9:C:9097:HOH:O	1.98	0.62
3:D:1206:GLY:HA3	3:D:1366:LYS:NZ	2.14	0.62
2:M:578:VAL:HG13	2:M:671:ASN:CG	2.19	0.62
3:N:996:TRP:CE3	3:N:999:THR:HG21	2.34	0.62
2:M:4:LYS:HD2	9:M:1220:HOH:O	1.99	0.62
3:N:680:GLN:HB3	9:N:9537:HOH:O	2.00	0.62
1:L:99:LEU:HA	9:L:3359:HOH:O	1.99	0.62
2:M:230:ARG:HB2	9:M:1607:HOH:O	1.98	0.62
3:D:832:ARG:HB2	9:D:9477:HOH:O	2.00	0.62
2:M:786:LYS:HA	9:M:1349:HOH:O	1.99	0.62
3:N:1018:ASN:O	3:N:1022:VAL:HG23	1.99	0.62
3:D:1273:VAL:HG22	3:D:1326:THR:OG1	2.00	0.62
5:F:166:LEU:O	5:F:171:LYS:HB2	2.00	0.62
3:N:37:LEU:HB2	9:N:2570:HOH:O	1.99	0.62
3:N:1259:VAL:HG22	3:N:1355:VAL:HG21	1.81	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:174:LEU:HD23	2:C:184:MET:HG3	1.81	0.62
2:M:715:THR:HG21	9:M:1668:HOH:O	2.00	0.62
1:L:100:LEU:HD23	1:L:141:GLU:HG2	1.81	0.62
2:M:217:LEU:HA	9:M:1226:HOH:O	2.00	0.62
2:C:1034:GLU:HA	2:C:1037:VAL:HG23	1.82	0.62
3:D:171:LEU:HD13	3:D:389:GLU:C	2.20	0.62
2:C:706:GLU:HB3	2:C:708:TYR:CE1	2.35	0.62
3:D:1197:ARG:HG3	3:D:1198:TYR:N	2.15	0.62
1:A:222:LEU:HD21	1:B:218:LEU:HD23	1.81	0.62
2:C:818:GLY:HA3	9:C:9771:HOH:O	1.99	0.62
1:K:46:SER:HB3	2:M:856:GLU:HG2	1.81	0.62
9:D:2701:HOH:O	5:F:314:PRO:HA	2.00	0.62
5:F:274:THR:HA	9:F:519:HOH:O	1.98	0.62
5:F:113:ILE:HA	5:F:116:LEU:HD12	1.81	0.62
5:F:222:ARG:HA	5:F:225:GLU:OE1	1.99	0.62
2:M:1031:ARG:HB2	9:M:1236:HOH:O	2.00	0.62
2:C:940:GLU:O	2:C:944:LEU:HG	2.00	0.62
2:M:305:PRO:HG3	2:M:308:ARG:HH21	1.64	0.62
3:N:213:VAL:HG22	3:N:214:GLU:H	1.64	0.62
5:P:363:GLU:HA	5:P:367:MET:HE2	1.82	0.62
1:K:143:ARG:HH11	1:K:143:ARG:HG2	1.65	0.62
1:A:36:LEU:O	1:A:39:PRO:HD2	1.99	0.62
3:D:834:THR:HG22	3:D:838:ARG:HD2	1.82	0.62
2:M:348:LEU:HD23	9:M:1422:HOH:O	2.00	0.62
2:M:357:GLU:O	2:M:360:LEU:HG	2.00	0.62
5:P:132:ARG:O	5:P:136:LEU:HG	2.00	0.61
3:N:1096:ARG:CB	3:N:1096:ARG:HH11	2.08	0.61
1:B:38:ASN:HB2	9:B:629:HOH:O	1.99	0.61
3:D:1428:ALA:O	3:D:1431:THR:HG23	2.00	0.61
1:A:150:TYR:CE1	2:C:696:LYS:HA	2.35	0.61
3:D:139:GLY:O	3:D:147:VAL:HB	2.00	0.61
2:M:755:LEU:HB2	9:M:1927:HOH:O	2.00	0.61
2:M:31:GLN:HA	9:M:1325:HOH:O	2.00	0.61
2:C:1049:LEU:O	2:C:1053:LEU:HG	2.00	0.61
9:C:9650:HOH:O	4:E:28:GLN:HA	2.00	0.61
2:M:308:ARG:HB3	9:M:1833:HOH:O	1.99	0.61
3:N:524:LEU:C	3:N:526:PRO:HD3	2.20	0.61
1:A:133:GLU:OE1	2:C:605:LYS:HB3	1.99	0.61
3:N:1211:MET:HG2	3:N:1213:ARG:HG2	1.82	0.61
3:D:810:GLU:O	3:D:813:LEU:HG	1.99	0.61
2:C:184:MET:HB2	2:C:193:LEU:HD12	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:109:PRO:HD3	9:D:9934:HOH:O	1.99	0.61
3:D:1407:LEU:HA	9:D:2570:HOH:O	2.00	0.61
2:M:1009:SER:HA	9:N:9366:HOH:O	1.98	0.61
3:D:794:GLN:HG2	3:D:905:PRO:HB3	1.82	0.61
3:N:1197:ARG:HD3	3:N:1396:GLU:OE1	2.00	0.61
1:B:50:GLY:HA2	9:B:487:HOH:O	1.98	0.61
9:A:332:HOH:O	1:B:208:LEU:HD11	2.00	0.61
5:P:371:LEU:HD22	5:P:375:LEU:HD22	1.82	0.61
3:D:628:ARG:HD3	3:D:744:GLN:HE22	1.64	0.61
1:B:44:LEU:HD11	1:B:199:ILE:HD11	1.82	0.61
1:A:213:GLN:O	1:A:217:ILE:HG13	2.00	0.61
3:D:783:ARG:HH21	8:D:9001:TGT:H2	1.64	0.61
3:D:1146:GLY:HA3	3:D:1207:TYR:HB2	1.82	0.61
2:C:253:ALA:HB3	9:C:9707:HOH:O	2.00	0.61
3:N:215:TYR:O	3:N:389:GLU:HB3	1.99	0.61
5:F:87:GLU:O	5:F:91:VAL:HG22	2.00	0.61
1:L:44:LEU:HD23	1:L:48:ILE:HD11	1.83	0.61
3:N:421:LEU:HB2	9:N:9419:HOH:O	1.99	0.61
3:D:9:ARG:HA	3:D:1434:TRP:CH2	2.35	0.61
2:M:721:ARG:NH2	2:M:785:VAL:HG21	2.15	0.61
2:M:669:GLY:HA3	2:M:995:MET:HA	1.82	0.61
2:M:410:ILE:HG22	9:M:2341:HOH:O	2.01	0.61
2:C:384:GLU:HG3	2:C:388:ARG:NE	2.15	0.61
2:M:690:ILE:HD12	2:M:833:LEU:HD23	1.82	0.61
1:L:192:LEU:HD12	9:L:5544:HOH:O	2.00	0.61
3:D:1268:PRO:HD2	9:D:2058:HOH:O	2.01	0.61
1:A:206:THR:HG22	1:A:209:GLU:HB2	1.82	0.61
3:N:660:LYS:HG2	3:N:690:ALA:HB1	1.82	0.61
1:K:164:ALA:HA	9:K:6166:HOH:O	1.99	0.61
5:P:292:ALA:HB1	5:P:299:TRP:O	2.01	0.61
3:N:135:LEU:HD13	3:N:147:VAL:HG23	1.81	0.61
3:D:1063:GLU:HG2	3:D:1064:GLY:H	1.66	0.61
3:D:873:LEU:HD12	3:D:873:LEU:H	1.65	0.61
2:C:1062:GLY:HA2	9:C:9598:HOH:O	1.99	0.61
3:D:447:VAL:HG23	9:D:9177:HOH:O	2.00	0.61
2:C:54:ILE:HD11	2:C:356:ARG:CG	2.29	0.61
2:C:503:LEU:HD12	2:C:505:GLY:H	1.66	0.61
2:M:186:VAL:HG23	2:M:187:ASN:H	1.66	0.61
3:D:510:GLU:HB3	9:D:9925:HOH:O	1.99	0.61
2:M:569:VAL:HG11	2:M:996:LYS:HZ3	1.63	0.61
5:F:278:LEU:HD12	9:F:746:HOH:O	1.99	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:428:ARG:HE	2:M:451:LEU:HD21	1.66	0.61
3:D:1109:GLU:HG2	3:D:1201:CYS:HA	1.81	0.61
4:E:54:LEU:HG	4:E:58:PRO:HG2	1.83	0.61
2:M:598:GLU:O	2:M:651:LYS:HG3	2.00	0.61
2:C:981:GLU:HG3	9:C:2177:HOH:O	2.00	0.61
3:N:1036:ARG:NH2	3:N:1042:ARG:HA	2.15	0.61
2:C:1115:LEU:HA	3:D:89:ARG:NH2	2.14	0.61
2:C:595:LEU:HG	2:C:655:LEU:HD12	1.81	0.61
5:P:361:LEU:HD21	5:P:404:ALA:CB	2.29	0.61
3:D:204:LEU:HD23	9:D:9486:HOH:O	2.01	0.61
2:M:549:PHE:CG	2:M:886:LEU:HD13	2.36	0.61
2:M:44:ILE:HG22	9:M:1192:HOH:O	1.99	0.61
3:N:478:LEU:HA	3:N:1388:ARG:NH2	2.16	0.61
2:M:528:GLU:O	2:M:530:GLU:HG3	2.00	0.61
2:M:607:ASP:HB2	2:M:610:ARG:HG3	1.83	0.61
2:M:673:LEU:HD12	2:M:895:TYR:CE1	2.35	0.61
2:C:26:TYR:O	2:C:30:LEU:HD12	2.00	0.61
2:M:723:THR:HA	9:M:2073:HOH:O	2.00	0.61
3:N:139:GLY:O	3:N:147:VAL:HB	2.00	0.61
3:N:1036:ARG:HH21	3:N:1042:ARG:CA	2.13	0.61
1:B:57:TYR:HE1	1:B:163:ASN:HB2	1.64	0.61
1:L:158:ILE:HD11	9:L:5570:HOH:O	2.00	0.61
5:F:274:THR:HG23	9:F:811:HOH:O	1.99	0.61
3:D:704:ARG:NH1	3:D:738:ALA:HA	2.16	0.61
1:B:170:VAL:HG22	9:B:421:HOH:O	2.00	0.61
1:K:91:ASN:OD1	1:K:92:PRO:HD2	2.01	0.61
5:P:384:GLU:HA	9:P:789:HOH:O	2.00	0.61
3:D:775:GLY:HA2	9:D:2264:HOH:O	2.00	0.61
1:K:118:ALA:HB3	9:K:4725:HOH:O	2.01	0.61
1:K:75:VAL:O	1:K:79:ILE:HG23	2.00	0.61
2:M:199:VAL:HG13	2:M:235:LEU:HG	1.81	0.61
3:N:546:ARG:HH22	3:N:550:ARG:NH2	1.98	0.61
3:D:602:SER:O	3:D:606:ILE:HG12	1.99	0.61
3:D:175:VAL:HG12	3:D:176:ASP:OD1	2.00	0.61
2:M:1115:LEU:HD12	2:M:1115:LEU:H	1.65	0.61
2:M:551:GLU:HG2	2:M:905:ILE:O	2.00	0.61
3:N:1481:VAL:HG13	4:O:18:ARG:NE	2.16	0.61
2:M:694:LEU:HD11	2:M:868:ASP:HB3	1.81	0.61
1:B:27:PRO:HB3	1:B:192:LEU:HD22	1.82	0.61
2:M:203:ASP:OD1	2:M:205:GLU:HG3	2.01	0.61
2:C:145:GLY:O	2:C:163:ILE:HG23	2.01	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:58:ILE:HD13	1:B:140:MET:HB3	1.83	0.61
2:C:222:MET:HB3	9:C:2084:HOH:O	2.01	0.61
2:M:637:LEU:HB2	9:M:1559:HOH:O	1.99	0.61
9:N:9144:HOH:O	5:P:147:LEU:HD11	1.99	0.61
3:N:197:SER:HB2	3:N:205:TYR:CZ	2.36	0.61
2:M:162:ILE:O	2:M:164:PRO:HD3	2.01	0.61
3:N:906:GLN:HB3	3:N:911:LEU:HD11	1.82	0.61
2:M:139:GLN:HA	9:M:2341:HOH:O	2.01	0.61
2:C:139:GLN:NE2	2:C:415:PRO:HD3	2.15	0.61
1:K:71:VAL:HG13	9:K:2174:HOH:O	2.00	0.61
3:N:917:GLN:HA	9:N:9492:HOH:O	2.00	0.61
3:D:1082:ALA:O	3:D:1086:LEU:HD13	1.99	0.61
3:D:483:HIS:HB2	3:D:484:PRO:HD3	1.83	0.61
3:D:1115:THR:HG21	9:D:9271:HOH:O	2.01	0.61
2:C:408:ARG:NH1	2:C:542:VAL:HG23	2.16	0.61
3:D:87:ARG:HB3	3:D:523:ASP:HB2	1.83	0.61
3:D:9:ARG:O	3:D:9:ARG:HG3	2.00	0.61
3:N:87:ARG:CB	3:N:523:ASP:HB2	2.31	0.61
3:D:478:LEU:HD21	3:D:500:ARG:NH2	2.13	0.61
2:C:264:PRO:HB3	2:C:289:THR:CG2	2.31	0.61
2:C:305:PRO:HG3	2:C:308:ARG:HH21	1.66	0.61
3:N:1379:VAL:HG23	9:N:2585:HOH:O	2.01	0.61
2:M:470:PRO:HB2	2:M:534:VAL:HG21	1.81	0.61
4:O:48:MET:N	4:O:54:LEU:HB2	2.16	0.61
2:C:838:LYS:HD2	2:C:846:LYS:NZ	2.16	0.61
3:N:1209:LEU:HD23	3:N:1210:SER:H	1.65	0.61
3:N:1314:LYS:HD3	3:N:1314:LYS:N	2.15	0.61
2:M:755:LEU:HD22	2:M:825:VAL:HG11	1.83	0.61
1:B:26:GLU:HG3	1:B:184:THR:HG21	1.83	0.61
1:L:25:LEU:HD23	1:L:28:LEU:HD11	1.83	0.61
2:M:911:GLU:O	2:M:915:LYS:HG2	2.00	0.61
1:L:100:LEU:HD12	1:L:115:LEU:HD11	1.83	0.61
1:A:53:VAL:HG12	1:A:167:VAL:HG21	1.82	0.61
3:D:899:LEU:HD12	3:D:900:ILE:HG23	1.83	0.61
5:P:112:ALA:HA	5:P:173:TYR:HD2	1.64	0.61
3:N:715:ALA:O	3:N:764:LEU:HD12	2.00	0.61
2:M:302:VAL:HG12	9:M:1355:HOH:O	2.00	0.60
2:C:367:LEU:HB3	2:C:371:LYS:HG2	1.83	0.60
3:D:565:ILE:HD12	3:D:565:ILE:H	1.66	0.60
3:D:1310:ARG:NE	3:D:1327:ARG:HB3	2.16	0.60
3:N:58:CYS:HA	3:N:78:VAL:HG11	1.82	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:862:PRO:HG3	2:C:975:TYR:HE1	1.66	0.60
3:N:119:SER:H	3:N:123:LEU:HD13	1.66	0.60
2:C:1063:ARG:O	2:C:1066:ALA:HB3	2.01	0.60
2:C:29:ALA:HB2	2:C:337:GLY:HA3	1.81	0.60
3:D:1262:LEU:HD23	3:D:1352:ILE:HG13	1.83	0.60
3:D:704:ARG:HG3	3:D:736:PHE:HB3	1.82	0.60
1:L:84:GLU:OE1	3:N:844:ALA:HB1	2.01	0.60
3:N:842:VAL:HG22	9:N:9303:HOH:O	2.00	0.60
3:N:1091:SER:HA	9:N:9320:HOH:O	1.99	0.60
2:C:1014:SER:HB3	2:C:1017:THR:O	2.01	0.60
3:D:715:ALA:HB3	3:D:764:LEU:HA	1.82	0.60
2:C:436:GLY:HA2	2:C:538:GLN:O	2.02	0.60
3:D:1472:ILE:HG22	3:D:1474:ALA:H	1.65	0.60
3:N:674:ARG:HB3	9:N:2013:HOH:O	2.01	0.60
2:C:234:ALA:HA	9:C:2092:HOH:O	1.99	0.60
2:M:1021:LEU:HD13	5:P:331:ASP:O	2.00	0.60
3:D:864:VAL:HG12	3:D:865:THR:H	1.66	0.60
3:N:633:VAL:HG22	3:N:635:PRO:HD3	1.83	0.60
4:E:95:GLY:HA2	9:E:185:HOH:O	2.01	0.60
1:A:221:HIS:HA	1:A:224:TYR:HD2	1.66	0.60
3:D:598:ARG:HD3	5:F:320:PRO:HD3	1.81	0.60
3:D:93:ILE:HD12	3:D:519:VAL:HG22	1.81	0.60
3:N:783:ARG:NH1	3:N:1029:ARG:HD3	2.16	0.60
3:D:984:THR:HG23	3:D:987:GLU:H	1.66	0.60
2:C:162:ILE:O	2:C:164:PRO:HD3	2.01	0.60
2:M:397:GLU:HG3	2:M:633:GLN:HE22	1.66	0.60
3:D:19:ARG:HG3	9:D:9380:HOH:O	2.01	0.60
2:C:536:PRO:HD2	2:C:537:LYS:HD2	1.84	0.60
1:L:123:MET:C	1:L:125:PRO:HD3	2.22	0.60
3:D:1239:ARG:HH22	3:D:1254:GLN:H	1.47	0.60
5:F:336:GLU:HG2	9:F:433:HOH:O	2.01	0.60
1:L:170:VAL:HG22	9:L:2130:HOH:O	2.00	0.60
2:M:250:ARG:HB3	9:M:1190:HOH:O	2.01	0.60
3:N:65:ARG:CG	3:N:66:GLN:H	2.14	0.60
3:D:782:SER:HB2	9:D:9499:HOH:O	2.00	0.60
2:C:676:ILE:CG2	2:C:988:VAL:HG22	2.31	0.60
3:N:443:VAL:HG11	3:N:445:ARG:HH21	1.66	0.60
5:F:93:LEU:HG	5:F:190:ALA:CB	2.32	0.60
2:M:8:ARG:HB2	9:M:1613:HOH:O	2.01	0.60
3:D:1377:LYS:O	3:D:1394:VAL:HA	2.02	0.60
3:D:1175:ILE:O	3:D:1179:GLU:HG3	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:199:VAL:HG13	2:C:235:LEU:HG	1.83	0.60
3:N:1464:GLU:HG2	3:N:1465:ASN:H	1.67	0.60
3:D:156:GLU:HA	3:D:159:ARG:HH12	1.67	0.60
2:M:112:GLU:HB2	9:M:1464:HOH:O	2.01	0.60
2:M:1102:LEU:HB2	3:N:7:LYS:HG3	1.84	0.60
2:M:1097:LEU:HD22	2:M:1097:LEU:H	1.66	0.60
3:D:1007:VAL:O	3:D:1010:ASN:HB3	2.01	0.60
3:D:29:PRO:HG3	3:D:549:ASN:ND2	2.12	0.60
2:C:666:LEU:HD13	9:C:9925:HOH:O	2.02	0.60
2:M:537:LYS:HG3	2:M:545:ASN:ND2	2.16	0.60
3:D:702:LEU:HB3	3:D:745:MET:CE	2.30	0.60
3:D:761:ILE:HD11	4:E:23:VAL:HG11	1.84	0.60
1:K:224:TYR:HB3	1:L:9:PRO:HB2	1.82	0.60
1:K:150:TYR:HE2	1:K:152:PRO:HG3	1.64	0.60
2:C:964:LYS:HE3	9:C:9220:HOH:O	2.01	0.60
3:N:104:PHE:CD2	3:N:1448:THR:HG23	2.36	0.60
2:C:1115:LEU:HD12	2:C:1115:LEU:N	2.17	0.60
3:D:1168:MET:O	3:D:1168:MET:HE3	2.02	0.60
2:C:1043:TYR:OH	3:D:711:LEU:HD23	2.02	0.60
4:O:72:ARG:HB3	4:O:72:ARG:HH11	1.66	0.60
4:O:43:GLU:HG2	4:O:44:GLU:H	1.66	0.60
2:M:918:LEU:HD21	9:M:1479:HOH:O	2.00	0.60
3:D:47:GLU:HB3	9:D:9864:HOH:O	2.02	0.60
2:M:283:ILE:HG13	9:M:2340:HOH:O	2.02	0.60
3:D:172:PRO:HD2	3:D:389:GLU:O	2.01	0.60
2:C:876:VAL:HB	3:D:949:ILE:HG13	1.84	0.60
2:M:178:PRO:HA	9:M:1536:HOH:O	2.02	0.60
3:D:637:LEU:HD11	3:D:641:GLN:C	2.21	0.60
5:P:283:GLY:HA2	9:P:745:HOH:O	2.02	0.60
3:D:1236:LEU:HA	3:D:1359:GLN:NE2	2.16	0.60
5:P:256:ARG:NE	5:P:260:ILE:HD12	2.17	0.60
3:D:393:ILE:H	3:D:393:ILE:HD12	1.66	0.60
5:F:290:GLU:HA	5:F:293:GLU:OE2	2.01	0.60
3:D:12:LEU:HD13	3:D:511:TRP:HB2	1.84	0.60
3:D:566:ILE:HG22	5:F:214:GLN:HE22	1.67	0.60
3:D:911:LEU:O	3:D:915:VAL:HG23	2.01	0.60
3:N:698:LYS:HA	3:N:756:GLN:HE21	1.66	0.60
3:D:459:GLU:HA	9:D:2118:HOH:O	2.01	0.60
2:M:557:ARG:NH2	2:M:879:ARG:HE	1.98	0.60
1:K:67:THR:HG21	2:M:609:ASN:ND2	2.16	0.60
3:D:40:GLU:OE1	3:D:40:GLU:HA	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:28:LEU:O	1:L:192:LEU:HD23	2.01	0.60
2:C:115:LEU:HD12	2:C:378:LEU:HD22	1.84	0.60
5:P:416:ARG:CZ	5:P:419:ARG:HB2	2.32	0.60
5:F:148:LYS:HB3	9:F:702:HOH:O	2.02	0.60
3:N:1284:GLU:HB2	9:N:9466:HOH:O	2.01	0.60
3:N:1007:VAL:HG23	3:N:1008:PHE:N	2.16	0.60
2:C:926:PHE:O	2:C:930:LYS:HG3	2.01	0.60
3:D:33:ASN:HB3	3:D:35:ARG:HH12	1.65	0.60
2:C:224:GLU:HG3	9:C:9073:HOH:O	2.00	0.60
2:M:278:GLU:HB3	9:M:1258:HOH:O	2.01	0.60
3:N:1257:PRO:O	3:N:1260:ILE:HG22	2.01	0.60
2:C:942:GLU:HA	9:C:2219:HOH:O	1.99	0.60
5:P:210:LEU:HA	5:P:213:ILE:HD12	1.84	0.60
2:C:1085:PHE:CZ	2:C:1111:ILE:HG21	2.37	0.60
2:C:333:ILE:CD1	2:C:467:ILE:HG13	2.32	0.60
1:B:151:VAL:HG22	1:B:155:LYS:NZ	2.17	0.60
5:F:385:GLU:O	5:F:397:ILE:HD13	2.02	0.60
5:F:291:ILE:HG23	5:F:304:VAL:HG21	1.84	0.60
2:M:328:LEU:HD13	2:M:433:THR:HB	1.84	0.60
2:M:89:THR:HA	2:M:129:ILE:O	2.02	0.60
3:D:136:ASP:CB	3:D:137:PRO:HD3	2.31	0.60
5:F:116:LEU:HA	9:F:885:HOH:O	2.00	0.60
1:B:103:ALA:O	1:B:138:LEU:HD23	2.02	0.60
2:M:490:GLU:HG2	2:M:494:TYR:HE1	1.66	0.60
3:D:1093:TYR:O	3:D:1097:LYS:HG2	2.02	0.60
2:C:31:GLN:HB3	2:C:71:TYR:OH	2.02	0.60
3:D:1493:LYS:O	3:D:1497:GLU:HG2	2.01	0.60
2:M:212:GLY:HA3	2:M:218:VAL:HG23	1.83	0.60
3:N:422:ALA:HB3	3:N:427:VAL:CG2	2.28	0.60
3:D:1434:TRP:CZ3	3:D:1457:ASP:HB2	2.37	0.60
3:N:49:ILE:HB	3:N:50:PHE:CD1	2.37	0.60
3:N:52:PRO:HB3	3:N:80:VAL:HG13	1.83	0.60
2:C:875:GLY:O	2:C:879:ARG:HD2	2.02	0.60
2:M:182:VAL:HG12	2:M:193:LEU:HD13	1.83	0.60
2:C:890:LEU:HD12	2:C:914:ILE:HD13	1.84	0.60
3:N:804:LEU:HB3	9:N:9283:HOH:O	2.02	0.60
2:C:343:GLN:HA	9:C:2186:HOH:O	2.01	0.60
5:F:262:VAL:HG12	5:F:266:GLU:OE2	2.01	0.60
2:M:31:GLN:HG2	2:M:34:VAL:HG23	1.82	0.60
5:F:403:LYS:NZ	5:F:403:LYS:HA	2.17	0.60
5:F:119:ILE:HB	9:F:885:HOH:O	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:31:THR:HG23	3:N:45:PHE:CE2	2.37	0.60
3:D:890:VAL:HA	9:D:9733:HOH:O	2.02	0.60
9:D:9679:HOH:O	5:F:349:LEU:HD21	2.02	0.60
3:D:1496:GLU:HA	3:D:1499:ARG:HG3	1.84	0.60
2:C:897:LEU:HD23	2:C:899:GLN:NE2	2.16	0.60
3:D:524:LEU:C	3:D:526:PRO:HD3	2.22	0.59
2:C:774:LEU:HD23	9:F:623:HOH:O	2.00	0.59
3:N:804:LEU:HB2	3:N:830:ALA:O	2.02	0.59
3:N:119:SER:HB2	3:N:123:LEU:CD1	2.32	0.59
3:N:906:GLN:HB3	3:N:911:LEU:CD1	2.32	0.59
3:D:1271:LYS:NZ	3:D:1334:GLN:HE22	2.00	0.59
1:A:50:GLY:HA3	1:A:173:PRO:HG3	1.83	0.59
1:A:221:HIS:HA	1:A:224:TYR:CD2	2.36	0.59
3:D:380:GLU:O	3:D:382:GLU:N	2.34	0.59
1:B:228:PRO:O	1:B:229:GLN:HG3	2.02	0.59
2:C:1047:HIS:HA	9:C:9436:HOH:O	2.01	0.59
2:C:470:PRO:HB3	2:C:485:TYR:CZ	2.37	0.59
5:F:213:ILE:HG22	5:F:217:ASN:ND2	2.18	0.59
2:M:313:LEU:HD13	2:M:321:GLU:HB2	1.85	0.59
3:N:699:VAL:HG12	3:N:717:GLN:HA	1.83	0.59
2:M:479:VAL:HG23	2:M:506:ASN:HA	1.84	0.59
2:M:752:GLY:H	2:M:792:VAL:HB	1.67	0.59
2:M:672:VAL:CG2	2:M:868:ASP:HB2	2.30	0.59
5:F:91:VAL:HG21	9:F:677:HOH:O	2.01	0.59
3:D:177:ALA:HB1	3:D:199:LEU:HD22	1.84	0.59
3:N:1254:GLN:HB3	9:N:2215:HOH:O	2.02	0.59
1:K:27:PRO:HB2	9:K:7997:HOH:O	2.00	0.59
5:F:303:ARG:O	5:F:307:THR:HG23	2.02	0.59
2:M:1043:TYR:HE1	3:N:710:ARG:O	1.85	0.59
3:N:963:TYR:CE2	3:N:1002:LYS:HB3	2.38	0.59
2:C:29:ALA:HB2	2:C:337:GLY:HA2	1.84	0.59
1:B:27:PRO:O	1:B:28:LEU:HD23	2.03	0.59
3:N:1147:ARG:O	3:N:1165:TYR:HA	2.02	0.59
3:N:1231:GLU:OE1	3:N:1232:PRO:HG3	2.02	0.59
3:N:1364:HIS:ND1	3:N:1366:LYS:HB2	2.17	0.59
1:K:127:LEU:HD12	1:K:128:HIS:N	2.17	0.59
3:N:134:VAL:HG22	9:N:9888:HOH:O	2.02	0.59
3:D:52:PRO:HG3	3:D:78:VAL:HG13	1.84	0.59
2:C:212:GLY:HA3	2:C:218:VAL:HG23	1.84	0.59
5:P:385:GLU:O	5:P:397:ILE:HD13	2.03	0.59
1:B:206:THR:CG2	1:B:209:GLU:H	2.16	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:141:HIS:HB3	2:C:418:LEU:CG	2.32	0.59
2:C:605:LYS:HE2	2:C:610:ARG:NH1	2.16	0.59
2:M:545:ASN:O	2:M:581:THR:HG21	2.02	0.59
5:F:142:ARG:CZ	5:F:150:THR:HG21	2.32	0.59
3:D:699:VAL:HG12	3:D:717:GLN:HG3	1.83	0.59
2:M:586:ARG:HD3	2:M:590:ASP:OD2	2.01	0.59
2:M:620:LEU:HD22	2:M:620:LEU:O	2.02	0.59
3:N:84:ILE:HG23	9:N:2157:HOH:O	2.02	0.59
2:C:499:ALA:HB1	9:C:2229:HOH:O	2.02	0.59
3:D:13:ALA:HB1	3:D:18:ILE:HD11	1.84	0.59
2:M:260:LEU:HA	2:M:291:ALA:CB	2.33	0.59
1:K:184:THR:O	1:K:192:LEU:HD12	2.02	0.59
2:C:42:VAL:HG12	2:C:43:GLY:N	2.17	0.59
2:M:33:ASP:OD2	2:M:34:VAL:HG22	2.03	0.59
2:M:516:ARG:NH1	3:N:1068:LEU:HD22	2.17	0.59
3:D:690:ALA:O	3:D:694:VAL:HG23	2.02	0.59
3:N:430:ASP:HB3	9:N:9423:HOH:O	2.02	0.59
3:D:961:LYS:HB2	9:D:2239:HOH:O	2.03	0.59
2:M:207:LEU:HD13	2:M:221:LEU:HD13	1.84	0.59
3:D:28:LYS:HB2	3:D:41:ARG:HD2	1.84	0.59
2:M:1055:LEU:HD21	9:M:1399:HOH:O	2.01	0.59
1:B:73:GLU:HB3	1:B:77:GLU:HG2	1.82	0.59
3:D:804:LEU:HB2	3:D:830:ALA:O	2.03	0.59
3:D:1066:THR:O	3:D:1070:TYR:HB2	2.03	0.59
3:N:161:LEU:HG	9:N:9501:HOH:O	2.01	0.59
3:D:486:ARG:HA	3:D:489:ARG:HG2	1.84	0.59
3:D:1231:GLU:HB3	3:D:1232:PRO:HD3	1.84	0.59
2:M:439:CYS:SG	2:M:540:PHE:HB3	2.43	0.59
2:M:39:ARG:NE	2:M:39:ARG:HA	2.18	0.59
4:E:4:PRO:HG3	9:E:213:HOH:O	2.01	0.59
2:M:629:TYR:HB2	9:M:1559:HOH:O	2.02	0.59
3:D:611:GLN:HA	3:D:615:ARG:HG2	1.85	0.59
1:K:159:LYS:HE2	9:K:8175:HOH:O	2.02	0.59
3:N:697:GLY:HA3	9:O:4442:HOH:O	2.02	0.59
1:B:102:LYS:HE2	1:B:104:GLU:OE1	2.02	0.59
5:P:214:GLN:HA	5:P:217:ASN:HD22	1.67	0.59
3:D:584:ASN:ND2	3:D:590:PRO:HD2	2.18	0.59
2:M:1032:PHE:CD2	2:M:1052:MET:HG2	2.37	0.59
2:M:1055:LEU:HD22	2:M:1066:ALA:HB2	1.84	0.59
2:C:708:TYR:N	2:C:708:TYR:CD1	2.69	0.59
3:D:1209:LEU:HD23	3:D:1211:MET:H	1.66	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:141:ILE:HD13	3:N:450:TYR:HB2	1.83	0.59
2:M:437:ARG:HG2	2:M:467:ILE:O	2.02	0.59
2:M:266:ARG:HB2	9:M:1259:HOH:O	2.02	0.59
3:D:128:TYR:CE1	3:D:461:ILE:HG13	2.37	0.59
1:A:18:ARG:O	1:A:207:PRO:HD3	2.03	0.59
1:B:26:GLU:HG2	1:B:27:PRO:CA	2.32	0.59
5:F:119:ILE:HG12	9:F:695:HOH:O	2.02	0.59
3:D:1243:THR:OG1	3:D:1253:THR:HB	2.02	0.59
5:P:231:ARG:HD3	9:P:790:HOH:O	2.03	0.59
2:C:1096:ALA:O	3:D:13:ALA:HB2	2.02	0.59
2:C:583:LEU:O	2:C:587:VAL:HG23	2.02	0.59
3:N:535:PHE:O	5:P:315:VAL:N	2.31	0.59
2:C:1066:ALA:O	2:C:1070:ILE:HG13	2.03	0.59
3:D:1344:VAL:HG11	3:D:1421:LEU:HD13	1.84	0.59
1:K:150:TYR:CE2	1:K:152:PRO:HG3	2.37	0.59
2:M:157:ARG:HB3	9:M:1879:HOH:O	2.00	0.59
3:N:1007:VAL:HG23	3:N:1008:PHE:HD2	1.68	0.59
3:N:1372:VAL:HA	3:N:1375:MET:HE3	1.85	0.59
3:D:976:GLN:HG3	9:D:9724:HOH:O	2.02	0.59
3:N:404:GLU:HB3	3:N:414:ARG:HD2	1.85	0.59
3:D:3:LYS:HE2	9:D:9617:HOH:O	2.03	0.59
3:D:1408:ILE:HG12	9:D:9584:HOH:O	2.03	0.59
3:D:424:GLY:HA2	3:D:435:VAL:O	2.03	0.59
2:M:197:LEU:HA	2:M:200:LEU:HD12	1.84	0.59
5:P:164:LYS:HA	5:P:171:LYS:NZ	2.18	0.59
3:D:89:ARG:O	3:D:521:PRO:HG3	2.03	0.59
2:C:630:ARG:HE	2:C:705:ILE:HB	1.67	0.59
3:D:1209:LEU:HD22	3:D:1211:MET:SD	2.43	0.59
3:D:805:GLU:OE1	3:D:809:PRO:HD2	2.02	0.59
1:L:65:PHE:HD1	3:N:813:LEU:HD22	1.66	0.59
2:M:139:GLN:HB3	2:M:334:ARG:HD3	1.84	0.59
2:M:431:HIS:CD2	2:M:433:THR:H	2.20	0.59
2:M:1111:ILE:HG12	2:M:1112:PHE:H	1.67	0.59
3:N:877:PRO:O	3:N:880:ILE:HG22	2.03	0.59
5:F:395:GLU:O	5:F:399:GLN:HB2	2.02	0.59
3:N:1372:VAL:HA	3:N:1375:MET:CE	2.32	0.59
3:D:902:LEU:HG	9:D:9927:HOH:O	2.03	0.59
3:N:1489:GLN:HB2	9:N:2560:HOH:O	2.02	0.59
2:C:283:ILE:HD12	9:C:9725:HOH:O	2.02	0.59
2:M:191:PHE:CZ	2:M:196:LEU:HB2	2.38	0.59
2:C:334:ARG:HB3	9:C:9652:HOH:O	2.03	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:397:GLU:H	2:C:633:GLN:NE2	2.00	0.59
3:N:1209:LEU:HD21	4:O:16:LYS:HZ1	1.68	0.59
1:L:26:GLU:HG3	1:L:194:LYS:NZ	2.18	0.59
1:K:112:ARG:HH11	1:K:112:ARG:HB3	1.68	0.59
1:A:206:THR:CG2	1:A:209:GLU:H	2.16	0.59
5:P:154:LYS:O	5:P:158:GLU:HG3	2.03	0.59
3:N:31:THR:HG23	3:N:45:PHE:HE2	1.68	0.59
2:C:1055:LEU:HD23	9:C:9412:HOH:O	2.02	0.59
2:C:443:THR:HG21	2:C:450:GLY:H	1.68	0.59
3:N:6:ARG:NH1	3:N:6:ARG:HB3	2.18	0.59
1:A:58:ILE:HB	1:A:61:VAL:HB	1.85	0.59
3:N:1066:THR:HG22	3:N:1069:GLU:HG3	1.84	0.59
3:D:1087:ARG:O	3:D:1091:SER:HB3	2.03	0.59
3:D:1076:GLY:O	3:D:1079:LYS:HG3	2.02	0.59
3:N:181:ASP:OD2	3:N:199:LEU:HB2	2.03	0.58
9:D:2043:HOH:O	5:F:317:LEU:HD11	2.03	0.58
2:C:264:PRO:HD2	9:C:9395:HOH:O	2.03	0.58
2:C:100:LEU:HD12	2:C:101:ILE:O	2.02	0.58
3:D:1326:THR:HA	9:D:2721:HOH:O	2.02	0.58
3:N:552:ASN:HA	3:N:555:LYS:HD2	1.83	0.58
2:C:557:ARG:HG3	2:C:560:MET:SD	2.43	0.58
5:F:310:ILE:HB	9:F:522:HOH:O	2.01	0.58
2:C:498:GLN:O	2:C:501:THR:HG23	2.02	0.58
5:F:142:ARG:HG3	9:F:730:HOH:O	2.01	0.58
3:D:209:ARG:HD2	3:D:210:ARG:HD3	1.84	0.58
2:C:265:ARG:HB3	2:C:267:TYR:CD2	2.38	0.58
3:N:149:LYS:HE3	9:N:9593:HOH:O	2.03	0.58
1:L:52:ALA:HB1	9:L:2130:HOH:O	2.02	0.58
2:M:1002:GLU:HA	2:M:1006:HIS:HE1	1.68	0.58
3:D:1164:ARG:HH21	3:D:1170:ASP:CG	2.06	0.58
1:B:80:LEU:HA	1:B:83:LYS:HD2	1.85	0.58
2:C:765:SER:HB3	9:C:2071:HOH:O	2.03	0.58
3:D:542:ASP:O	3:D:546:ARG:HG2	2.03	0.58
2:M:371:LYS:HA	9:M:1378:HOH:O	2.02	0.58
4:O:47:LYS:HA	4:O:54:LEU:HB3	1.84	0.58
2:M:408:ARG:HD2	9:M:1641:HOH:O	2.03	0.58
3:D:630:VAL:HA	3:D:744:GLN:HG2	1.84	0.58
4:O:85:LEU:HD23	4:O:86:GLN:N	2.18	0.58
3:D:1155:VAL:HG12	3:D:1156:LEU:N	2.18	0.58
3:D:1007:VAL:HG23	3:D:1008:PHE:N	2.18	0.58
5:P:198:ILE:HG23	5:P:244:ARG:HE	1.68	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:1105:LYS:HE2	9:M:1654:HOH:O	2.03	0.58
2:M:401:LEU:HD13	2:M:546:LEU:HD11	1.85	0.58
3:N:584:ASN:HB2	3:N:602:SER:HB3	1.85	0.58
2:M:603:VAL:HG21	2:M:643:VAL:HG11	1.85	0.58
3:N:986:ARG:HG3	3:N:990:ASP:OD2	2.03	0.58
3:D:519:VAL:HG13	3:D:544:TYR:CE1	2.38	0.58
3:D:1147:ARG:O	3:D:1165:TYR:HA	2.03	0.58
1:B:112:ARG:NH1	1:B:112:ARG:HB3	2.17	0.58
2:M:1015:LEU:HD12	5:P:334:PRO:O	2.03	0.58
3:D:190:GLU:HB3	9:D:2258:HOH:O	2.02	0.58
1:A:31:GLY:HA2	2:C:939:ARG:HH22	1.69	0.58
3:N:694:VAL:HG13	9:N:9950:HOH:O	2.03	0.58
2:M:113:VAL:CG1	2:M:115:LEU:HD21	2.33	0.58
3:N:399:ARG:HB2	3:N:444:VAL:HG13	1.85	0.58
2:C:1091:GLU:HG2	3:D:606:ILE:CG2	2.33	0.58
2:C:1097:LEU:HD21	3:D:103:TRP:CZ3	2.38	0.58
2:C:1111:ILE:CD1	2:C:1112:PHE:H	2.16	0.58
2:M:8:ARG:HD2	2:M:10:ARG:NH2	2.12	0.58
3:D:65:ARG:H	3:D:68:PHE:HE1	1.51	0.58
3:D:907:GLU:O	3:D:911:LEU:HD13	2.04	0.58
3:N:1379:VAL:HG11	3:N:1395:LEU:HD23	1.85	0.58
3:N:950:GLY:O	3:N:953:ASP:N	2.31	0.58
2:C:881:ASN:HD22	2:C:881:ASN:N	1.97	0.58
2:C:25:SER:HB2	2:C:335:THR:HB	1.84	0.58
2:C:89:THR:HA	2:C:129:ILE:O	2.03	0.58
1:A:209:GLU:O	1:A:213:GLN:HG3	2.03	0.58
3:D:1107:VAL:HG12	3:D:1217:ILE:HA	1.86	0.58
3:N:65:ARG:HG3	3:N:66:GLN:H	1.68	0.58
5:F:147:LEU:HD13	9:F:536:HOH:O	2.03	0.58
1:L:205:VAL:HB	9:L:5364:HOH:O	2.03	0.58
2:M:100:LEU:HD11	9:M:1650:HOH:O	2.03	0.58
1:K:93:SER:HB3	9:K:1521:HOH:O	2.03	0.58
5:F:108:GLU:HG3	5:F:176:ILE:HG21	1.85	0.58
1:K:20:TYR:HD2	1:K:21:GLY:H	1.52	0.58
3:D:494:LYS:HD2	9:D:9194:HOH:O	2.04	0.58
5:F:240:THR:HG23	9:F:597:HOH:O	2.02	0.58
3:D:12:LEU:HD23	3:D:13:ALA:H	1.68	0.58
3:D:1101:VAL:CG2	3:D:1424:VAL:HG22	2.30	0.58
2:M:264:PRO:HD2	9:M:1885:HOH:O	2.03	0.58
2:M:984:GLU:HA	9:M:2093:HOH:O	2.03	0.58
4:O:87:LYS:HA	9:O:4494:HOH:O	2.04	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1046:GLN:HG2	3:N:1052:THR:HB	1.86	0.58
3:N:748:HIS:HB3	9:N:9408:HOH:O	2.03	0.58
3:D:838:ARG:HB3	9:D:2307:HOH:O	2.03	0.58
3:N:136:ASP:CB	3:N:137:PRO:HD3	2.33	0.58
3:D:1005:GLN:HA	9:D:9273:HOH:O	2.03	0.58
3:D:1186:VAL:HG22	9:D:9795:HOH:O	2.03	0.58
2:M:1069:ALA:HA	9:M:1298:HOH:O	2.04	0.58
2:M:252:LYS:NZ	2:M:296:GLY:HA3	2.19	0.58
3:D:404:GLU:HB3	3:D:414:ARG:HD2	1.85	0.58
3:D:116:LEU:O	3:D:118:LEU:HG	2.03	0.58
3:D:163:TYR:HB3	9:D:2181:HOH:O	2.03	0.58
2:M:263:ASP:HB2	2:M:264:PRO:HD3	1.86	0.58
2:C:148:PHE:HZ	2:C:281:LEU:HD13	1.69	0.58
3:N:804:LEU:HD23	3:N:804:LEU:H	1.67	0.58
5:F:77:THR:HA	5:F:210:LEU:HD21	1.84	0.58
2:C:1067:TYR:O	2:C:1071:ILE:HG12	2.04	0.58
1:A:102:LYS:HE2	1:A:139:ASN:HB2	1.83	0.58
2:M:532:MET:HG3	2:M:533:ASP:N	2.17	0.58
2:M:52:PHE:CG	2:M:68:PHE:HB2	2.39	0.58
1:A:143:ARG:HG3	1:A:144:VAL:N	2.18	0.58
3:N:116:LEU:HD23	3:N:468:LEU:HD11	1.86	0.58
4:E:33:HIS:CD2	4:E:89:MET:HG2	2.39	0.58
3:N:972:LEU:O	3:N:976:GLN:HG3	2.03	0.58
4:E:48:MET:HB2	4:E:54:LEU:HB2	1.85	0.58
3:N:1364:HIS:CE1	3:N:1366:LYS:HB2	2.39	0.58
3:N:404:GLU:HB3	3:N:414:ARG:CD	2.34	0.58
1:A:62:LEU:HD12	1:A:62:LEU:H	1.69	0.58
2:C:682:TYR:HB3	2:C:689:VAL:HG22	1.85	0.58
5:F:321:ILE:HG22	5:F:322:GLY:H	1.67	0.58
2:C:263:ASP:HB2	2:C:264:PRO:HD3	1.85	0.58
3:N:555:LYS:HE2	9:N:2144:HOH:O	2.04	0.58
2:M:160:ALA:O	2:M:173:ASP:HA	2.04	0.58
2:C:625:LEU:HB3	2:C:639:GLN:HB2	1.85	0.58
2:M:473:ARG:HG2	2:M:473:ARG:HH11	1.67	0.58
3:D:510:GLU:CD	3:D:510:GLU:H	2.07	0.58
2:M:625:LEU:HD22	2:M:639:GLN:HB2	1.85	0.58
2:M:1043:TYR:HA	9:N:9718:HOH:O	2.03	0.58
2:C:380:ALA:O	2:C:384:GLU:HB2	2.03	0.58
2:C:19:THR:O	2:C:23:VAL:HG23	2.03	0.58
2:C:599:GLU:HB3	9:C:9476:HOH:O	2.03	0.58
1:B:138:LEU:HB2	1:B:140:MET:HE1	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1237:THR:HG21	9:D:2660:HOH:O	2.03	0.58
3:N:1280:VAL:HG23	3:N:1295:GLU:O	2.02	0.58
2:M:420:ARG:NH1	2:M:420:ARG:H	2.02	0.58
3:D:408:GLU:HA	9:D:9418:HOH:O	2.04	0.58
2:C:984:GLU:HG2	3:D:944:THR:HG22	1.85	0.58
2:C:976:ASP:CB	2:C:979:THR:HG22	2.34	0.58
3:N:393:ILE:H	3:N:393:ILE:HD12	1.69	0.58
3:D:478:LEU:HD22	3:D:1388:ARG:NH2	2.19	0.58
2:C:158:TYR:CE1	2:C:313:LEU:HG	2.38	0.58
2:C:431:HIS:H	2:C:434:HIS:CE1	2.21	0.58
1:B:45:LEU:HD21	1:B:177:VAL:HG22	1.85	0.58
5:P:321:ILE:HD11	5:P:329:TYR:HB2	1.84	0.58
3:D:1263:PHE:CZ	3:D:1352:ILE:HD13	2.39	0.58
3:N:1166:LEU:HD13	9:N:2153:HOH:O	2.04	0.58
1:B:58:ILE:HB	1:B:61:VAL:HB	1.85	0.58
1:A:58:ILE:HG22	9:A:516:HOH:O	2.03	0.58
1:K:13:VAL:HG12	1:K:15:THR:HG22	1.86	0.58
1:K:95:GLN:HA	9:K:4334:HOH:O	2.04	0.58
2:M:722:ILE:HG21	2:M:821:GLU:OE2	2.03	0.58
3:N:601:ARG:CZ	3:N:606:ILE:HD13	2.33	0.58
3:D:18:ILE:HG21	3:D:516:ALA:O	2.04	0.58
2:C:724:ARG:NE	2:C:737:LEU:O	2.37	0.58
2:C:148:PHE:HB3	9:C:9294:HOH:O	2.03	0.58
2:C:208:ALA:O	2:C:218:VAL:HG21	2.04	0.58
5:F:132:ARG:O	5:F:136:LEU:HG	2.03	0.58
2:M:367:LEU:O	2:M:372:LEU:HD13	2.03	0.58
5:F:361:LEU:HD22	5:F:366:ALA:HB2	1.85	0.58
1:L:166:PRO:HB3	9:L:3186:HOH:O	2.03	0.58
2:M:669:GLY:C	2:M:670:GLN:HG3	2.23	0.58
3:D:623:VAL:HG11	9:D:9215:HOH:O	2.01	0.58
2:C:1005:MET:CE	3:D:648:MET:HB2	2.33	0.58
3:N:729:HIS:HE1	3:N:731:LEU:HG	1.69	0.58
3:D:1420:LEU:HD12	3:D:1421:LEU:N	2.18	0.58
3:D:1499:ARG:HG2	9:D:9726:HOH:O	2.02	0.58
3:D:235:ALA:HB3	9:D:2067:HOH:O	2.03	0.58
1:K:227:ASN:ND2	1:K:227:ASN:H	2.02	0.58
3:D:988:ARG:O	3:D:992:ILE:HG13	2.04	0.58
9:D:9689:HOH:O	5:F:315:VAL:HB	2.04	0.58
1:A:226:SER:O	1:A:228:PRO:HD3	2.04	0.58
3:N:557:LEU:HD11	9:P:667:HOH:O	2.03	0.58
2:C:365:ASP:O	2:C:367:LEU:HD12	2.04	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:41:ARG:HD3	3:D:42:ASP:H	1.68	0.58
5:F:93:LEU:HD23	9:F:839:HOH:O	2.04	0.58
2:C:884:GLN:HG3	2:C:885:ILE:HD13	1.85	0.58
5:P:350:LEU:HD23	5:P:351:SER:N	2.19	0.58
5:F:414:ARG:HH11	5:F:414:ARG:HG2	1.68	0.58
5:P:267:THR:O	5:P:271:LEU:HG	2.04	0.58
2:M:203:ASP:OD1	2:M:206:THR:HG22	2.04	0.58
4:E:54:LEU:HA	4:E:58:PRO:HG2	1.86	0.58
3:D:1159:ARG:HB3	3:D:1159:ARG:CZ	2.34	0.58
3:N:659:LYS:O	3:N:663:GLU:HG3	2.04	0.58
3:D:1450:ALA:HA	9:D:2279:HOH:O	2.04	0.58
5:P:297:PRO:HB2	9:P:446:HOH:O	2.04	0.58
3:D:924:MET:HG2	9:D:2460:HOH:O	2.03	0.58
2:M:409:ARG:HH12	2:M:444:PRO:HG3	1.69	0.57
3:D:82:LYS:HB3	9:D:2110:HOH:O	2.03	0.57
3:D:478:LEU:HD12	9:D:2336:HOH:O	2.03	0.57
2:C:197:LEU:HB3	2:C:202:TYR:HB2	1.85	0.57
2:C:328:LEU:HB2	2:C:488:ALA:HB2	1.85	0.57
5:F:80:PRO:HA	5:F:83:GLN:HB2	1.85	0.57
2:C:798:GLY:H	2:C:827:VAL:CG1	2.17	0.57
3:D:809:PRO:O	3:D:812:ALA:HB3	2.04	0.57
3:N:1209:LEU:HD23	3:N:1211:MET:H	1.69	0.57
5:P:187:LEU:HD22	5:P:191:ASN:HD21	1.69	0.57
1:A:178:ALA:CB	2:C:864:GLY:H	2.17	0.57
2:C:420:ARG:CD	2:C:420:ARG:H	2.17	0.57
3:N:136:ASP:HB3	9:N:9523:HOH:O	2.03	0.57
1:A:117:VAL:HB	1:A:120:VAL:HG12	1.84	0.57
3:N:591:VAL:HG11	3:N:597:ASP:HA	1.86	0.57
1:K:182:GLU:O	1:K:194:LYS:HB3	2.04	0.57
2:C:962:GLN:HB2	9:C:9244:HOH:O	2.02	0.57
3:N:1439:SER:HB2	3:N:1440:PHE:CD2	2.39	0.57
4:O:40:LEU:HD13	9:O:1900:HOH:O	2.04	0.57
2:C:1020:PRO:O	3:D:622:ARG:HD2	2.04	0.57
2:C:110:GLU:HG2	2:C:369:PRO:CB	2.27	0.57
3:N:817:GLU:O	3:N:821:VAL:HG23	2.03	0.57
3:D:1394:VAL:HG11	9:D:2234:HOH:O	2.04	0.57
2:M:144:PRO:HA	2:M:163:ILE:HG13	1.86	0.57
2:C:139:GLN:HE22	2:C:415:PRO:HD3	1.69	0.57
3:D:1437:ALA:HA	3:D:1440:PHE:CE1	2.39	0.57
3:N:1369:GLU:O	3:N:1372:VAL:HG12	2.03	0.57
4:O:45:ARG:HB3	9:O:1900:HOH:O	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:614:ARG:HG3	9:C:9897:HOH:O	2.04	0.57
2:M:242:LEU:HD21	9:M:2345:HOH:O	2.03	0.57
3:N:1320:GLU:HG3	9:N:9614:HOH:O	2.04	0.57
1:A:211:LEU:O	1:A:215:VAL:HG13	2.04	0.57
2:C:260:LEU:HA	2:C:291:ALA:HB2	1.86	0.57
2:M:5:ARG:HB3	2:M:902:ILE:HB	1.84	0.57
3:N:1109:GLU:HG2	3:N:1202:GLN:H	1.70	0.57
3:N:710:ARG:HH22	3:N:1210:SER:HB2	1.69	0.57
3:D:1173:LEU:HD23	3:D:1174:LEU:HD23	1.86	0.57
3:D:154:THR:OG1	3:D:156:GLU:HG2	2.04	0.57
3:D:1164:ARG:HG3	3:D:1164:ARG:HH11	1.70	0.57
3:D:644:LEU:HD12	3:D:645:PRO:HD2	1.87	0.57
1:A:90:LEU:HD12	1:A:119:ASP:O	2.04	0.57
3:D:1296:SER:HA	9:D:2689:HOH:O	2.03	0.57
3:N:583:ASP:HB2	3:N:604:THR:OG1	2.05	0.57
2:C:319:GLY:HA2	9:C:9429:HOH:O	2.05	0.57
3:D:958:GLU:HB3	9:D:2309:HOH:O	2.04	0.57
2:C:432:ARG:NH1	3:D:1048:PRO:HD2	2.17	0.57
3:D:59:ALA:HB3	9:D:9193:HOH:O	2.03	0.57
2:C:313:LEU:HB2	2:C:321:GLU:HG3	1.87	0.57
3:D:141:ILE:HG13	9:D:2754:HOH:O	2.03	0.57
5:F:358:LEU:HD13	5:F:370:LYS:HG3	1.84	0.57
2:M:910:LYS:HB2	2:M:913:GLU:OE1	2.03	0.57
2:M:134:ARG:HH21	2:M:393:GLN:HA	1.70	0.57
3:N:545:ARG:HD2	9:P:707:HOH:O	2.02	0.57
3:N:1412:LYS:HG2	3:N:1414:PRO:HG3	1.85	0.57
3:N:989:TYR:CZ	3:N:993:LEU:HD11	2.40	0.57
1:B:81:ASN:O	1:B:84:GLU:HB3	2.05	0.57
3:N:1341:PRO:HA	3:N:1344:VAL:HG23	1.86	0.57
8:D:9001:TGT:H113	9:D:9576:HOH:O	2.03	0.57
2:M:801:VAL:HG23	9:M:1206:HOH:O	2.04	0.57
2:M:194:VAL:HG21	2:M:221:LEU:O	2.04	0.57
3:D:1105:ILE:HD11	3:D:1374:GLN:HE22	1.69	0.57
2:C:773:LEU:HG	2:C:777:ILE:HD11	1.87	0.57
5:F:278:LEU:CB	5:F:286:PRO:HG2	2.33	0.57
5:F:290:GLU:HG3	9:F:512:HOH:O	2.03	0.57
3:N:404:GLU:HB3	3:N:414:ARG:NE	2.19	0.57
2:M:115:LEU:HD13	2:M:373:VAL:HG11	1.87	0.57
2:M:840:ALA:HB1	9:M:1232:HOH:O	2.03	0.57
3:N:1194:CYS:HB3	3:N:1373:ARG:NH2	2.19	0.57
2:C:271:GLU:HG2	9:C:9077:HOH:O	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1051:GLU:HG3	3:N:1051:GLU:O	2.03	0.57
5:P:278:LEU:HB3	5:P:286:PRO:HG2	1.87	0.57
2:M:152:PRO:HB3	9:M:2122:HOH:O	2.03	0.57
4:E:52:GLU:HB3	4:E:55:PHE:CZ	2.40	0.57
3:D:434:ARG:HB2	3:D:447:VAL:HG13	1.85	0.57
2:M:305:PRO:HA	2:M:308:ARG:NE	2.20	0.57
3:N:571:LYS:NZ	3:N:571:LYS:HB2	2.18	0.57
2:C:352:ALA:HA	2:C:355:VAL:HG12	1.85	0.57
1:A:14:ARG:CZ	1:A:22:GLU:HB3	2.34	0.57
3:N:54:LYS:HB3	9:N:9567:HOH:O	2.04	0.57
5:F:365:GLU:OE1	5:F:400:ILE:HD12	2.05	0.57
4:O:14:ASP:OD1	4:O:18:ARG:HD2	2.04	0.57
2:M:333:ILE:N	2:M:333:ILE:HD12	2.20	0.57
2:M:605:LYS:HD3	2:M:610:ARG:CZ	2.34	0.57
1:L:178:ALA:HB1	1:L:198:ARG:HH21	1.70	0.57
3:D:756:GLN:O	3:D:760:ARG:HG2	2.04	0.57
3:D:153:LEU:HD12	3:D:154:THR:H	1.70	0.57
2:C:654:LEU:HD11	2:C:663:ASN:HD22	1.69	0.57
5:P:129:GLU:HB3	5:P:142:ARG:NH2	2.19	0.57
3:N:473:LEU:HB2	9:N:2375:HOH:O	2.04	0.57
2:C:958:THR:HG23	2:C:961:GLU:HB2	1.86	0.57
3:N:643:GLY:HA3	3:N:727:GLN:HB2	1.86	0.57
1:K:161:ARG:HB2	1:K:161:ARG:CZ	2.35	0.57
3:N:1220:ALA:HB1	3:N:1223:ILE:HD13	1.87	0.57
3:D:1003:VAL:O	3:D:1006:ALA:HB3	2.05	0.57
3:D:1123:PHE:HE2	3:D:1184:GLN:HE21	1.51	0.57
3:D:185:VAL:HG12	3:D:191:LEU:HD21	1.86	0.57
2:C:464:LEU:O	2:C:466:PHE:N	2.38	0.57
3:N:820:GLU:HG3	3:N:836:VAL:CG1	2.34	0.57
3:N:754:PHE:HZ	4:O:21:VAL:HG13	1.69	0.57
3:D:1393:GLN:HG3	3:D:1398:TRP:HZ2	1.70	0.57
5:F:299:TRP:CE3	5:F:303:ARG:HD3	2.39	0.57
2:C:585:GLU:HG2	2:C:586:ARG:H	1.70	0.57
2:M:22:GLN:HE22	2:M:336:VAL:HG21	1.70	0.57
2:M:1067:TYR:O	2:M:1071:ILE:HG12	2.04	0.57
3:N:658:LEU:HD21	3:N:674:ARG:NH1	2.20	0.57
1:K:226:SER:O	1:K:228:PRO:HD3	2.05	0.57
1:B:186:LEU:O	1:B:186:LEU:HD23	2.04	0.57
1:B:46:SER:HB2	9:B:642:HOH:O	2.05	0.57
3:N:172:PRO:HD2	3:N:389:GLU:O	2.04	0.57
1:B:140:MET:HG3	9:B:510:HOH:O	2.03	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:256:ARG:HD2	9:F:793:HOH:O	2.02	0.57
3:D:1025:GLN:HB3	9:D:2121:HOH:O	2.04	0.57
3:N:250:LEU:HA	9:N:9526:HOH:O	2.04	0.57
2:M:952:LEU:CD1	2:M:969:GLN:HE22	2.10	0.57
2:C:1081:VAL:CG2	2:C:1111:ILE:HG22	2.34	0.57
2:C:194:VAL:HA	2:C:197:LEU:HD12	1.85	0.57
2:C:304:LEU:HD23	2:C:305:PRO:HD3	1.85	0.57
2:C:625:LEU:HD11	2:C:641:PRO:HG3	1.85	0.57
3:N:471:GLU:O	3:N:475:LYS:HD3	2.05	0.57
2:M:139:GLN:HE21	2:M:334:ARG:HH11	1.51	0.57
2:C:380:ALA:HA	2:C:383:ARG:HD3	1.87	0.57
1:A:41:ARG:O	1:A:45:LEU:HD12	2.05	0.57
3:D:1109:GLU:CD	3:D:1202:GLN:H	2.07	0.57
2:C:455:LEU:H	2:C:455:LEU:HD23	1.69	0.57
2:M:841:ASN:HD22	2:M:841:ASN:C	2.08	0.57
3:D:502:PHE:CE2	3:D:1452:ILE:HG13	2.39	0.57
1:B:132:LEU:HG	1:B:136:GLY:HA3	1.86	0.57
5:P:280:GLN:HB2	9:P:763:HOH:O	2.05	0.57
2:C:531:PHE:HB3	9:C:9955:HOH:O	2.05	0.57
3:N:1391:GLU:HG2	9:N:9461:HOH:O	2.05	0.57
3:N:771:SER:HB2	3:N:778:LEU:HD13	1.85	0.57
3:N:487:ALA:HA	9:N:9529:HOH:O	2.03	0.57
3:N:543:LEU:O	3:N:546:ARG:HB2	2.04	0.57
3:N:199:LEU:HD21	9:N:9291:HOH:O	2.02	0.57
2:C:724:ARG:HG3	2:C:741:GLY:N	2.10	0.57
5:P:291:ILE:O	5:P:295:MET:HB2	2.05	0.57
2:C:516:ARG:CZ	3:D:1068:LEU:HB3	2.35	0.57
3:D:1068:LEU:HD23	3:D:1071:PHE:HB3	1.86	0.57
5:P:403:LYS:HZ2	5:P:403:LYS:HA	1.70	0.57
3:D:400:VAL:HG12	3:D:401:TYR:HD1	1.70	0.57
4:E:26:ARG:O	4:E:29:GLN:HG2	2.04	0.57
2:M:841:ASN:HB2	9:M:1160:HOH:O	2.05	0.57
2:M:892:LEU:HD21	2:M:967:PHE:CZ	2.40	0.57
5:P:302:LYS:HG2	9:P:484:HOH:O	2.03	0.57
1:A:123:MET:C	1:A:125:PRO:HD3	2.24	0.57
2:M:759:THR:HB	2:M:785:VAL:CG2	2.34	0.57
4:E:18:ARG:HD2	9:E:128:HOH:O	2.05	0.57
3:D:194:GLY:N	3:D:206:ARG:HA	2.18	0.57
2:M:535:SER:HB2	2:M:537:LYS:NZ	2.19	0.57
2:C:515:ALA:C	2:C:516:ARG:HG2	2.26	0.57
3:D:510:GLU:O	3:D:513:ILE:HD12	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:18:LEU:HD23	2:M:404:LEU:HD11	1.85	0.57
3:D:32:ILE:HG23	9:D:9129:HOH:O	2.04	0.57
5:P:230:LYS:HE3	9:P:688:HOH:O	2.04	0.57
2:C:551:GLU:HG3	2:C:552:HIS:CD2	2.40	0.57
3:N:1289:LYS:HG2	9:N:2244:HOH:O	2.04	0.57
3:D:1467:ILE:HA	9:D:9872:HOH:O	2.04	0.57
2:M:208:ALA:O	2:M:218:VAL:HG21	2.04	0.56
3:N:562:ALA:HB1	3:N:567:ILE:HD11	1.85	0.56
2:C:1085:PHE:HE2	3:D:1468:LEU:HG	1.69	0.56
2:C:773:LEU:HD22	5:F:373:LYS:HB2	1.87	0.56
3:N:1291:SER:HB3	9:N:9681:HOH:O	2.05	0.56
5:P:408:LEU:O	5:P:412:GLU:HG2	2.04	0.56
3:N:783:ARG:HD2	3:N:1029:ARG:CG	2.34	0.56
2:C:575:GLN:NE2	2:C:671:ASN:HD22	2.02	0.56
2:M:983:ILE:HG21	2:M:987:ILE:HD11	1.86	0.56
2:C:1071:ILE:O	3:D:659:LYS:HG2	2.04	0.56
3:N:119:SER:HB2	3:N:123:LEU:HB2	1.86	0.56
2:M:139:GLN:HG2	2:M:418:LEU:HD22	1.86	0.56
3:N:527:MET:HE3	3:N:537:THR:HB	1.87	0.56
1:B:218:LEU:O	1:B:222:LEU:HG	2.04	0.56
2:C:837:ASP:O	2:C:849:VAL:HG23	2.04	0.56
2:M:137:VAL:HG23	2:M:391:LEU:HG	1.87	0.56
3:N:678:GLU:HG3	3:N:679:ARG:HG3	1.86	0.56
3:N:1472:ILE:HG22	3:N:1474:ALA:H	1.70	0.56
5:P:321:ILE:HG22	5:P:322:GLY:N	2.19	0.56
3:N:463:GLN:O	3:N:467:GLU:HG3	2.05	0.56
1:B:50:GLY:O	1:B:146:ARG:HA	2.05	0.56
3:D:1441:GLN:NE2	3:D:1442:ASN:HB2	2.21	0.56
3:N:712:GLY:C	3:N:713:ILE:HD12	2.26	0.56
1:A:219:ARG:HH22	1:B:223:THR:HG22	1.69	0.56
3:N:177:ALA:HB1	3:N:199:LEU:HD22	1.86	0.56
2:C:218:VAL:HG22	2:C:221:LEU:HD23	1.88	0.56
5:F:234:LYS:HG3	9:F:495:HOH:O	2.05	0.56
1:A:184:THR:HG23	1:A:192:LEU:HD12	1.86	0.56
2:M:310:LEU:HD21	9:M:1874:HOH:O	2.05	0.56
5:F:363:GLU:O	5:F:367:MET:HG2	2.05	0.56
2:M:906:PHE:CD1	3:N:1067:VAL:HG22	2.40	0.56
3:D:513:ILE:HG23	9:D:9275:HOH:O	2.05	0.56
3:N:119:SER:CB	3:N:123:LEU:HB2	2.35	0.56
2:M:791:ARG:HH11	2:M:791:ARG:HB3	1.70	0.56
2:M:70:GLU:HA	9:M:1400:HOH:O	2.04	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:699:VAL:HG22	3:D:756:GLN:NE2	2.19	0.56
2:M:926:PHE:O	2:M:930:LYS:HG3	2.05	0.56
1:L:100:LEU:O	1:L:115:LEU:HG	2.05	0.56
1:L:170:VAL:HG11	3:N:848:GLU:CD	2.25	0.56
3:D:168:THR:OG1	3:D:393:ILE:HB	2.05	0.56
3:D:611:GLN:HB2	9:D:9133:HOH:O	2.05	0.56
2:M:848:VAL:HB	3:N:740:PHE:O	2.06	0.56
2:C:1031:ARG:HH11	2:C:1031:ARG:HG3	1.70	0.56
1:L:151:VAL:HG21	9:L:7686:HOH:O	2.05	0.56
2:C:758:ARG:HB3	2:C:788:THR:O	2.05	0.56
3:D:130:SER:HA	9:D:9652:HOH:O	2.03	0.56
2:M:218:VAL:HA	2:M:221:LEU:HD23	1.87	0.56
2:M:305:PRO:CG	2:M:308:ARG:HH21	2.19	0.56
9:C:9607:HOH:O	3:D:943:THR:HG21	2.06	0.56
2:C:1115:LEU:HD23	3:D:85:VAL:CA	2.35	0.56
3:D:42:ASP:O	3:D:46:ASP:HB2	2.05	0.56
2:M:1018:GLN:HE21	2:M:1063:ARG:HH22	1.52	0.56
2:C:799:ILE:HB	9:C:9536:HOH:O	2.03	0.56
2:C:264:PRO:HB3	2:C:289:THR:CB	2.35	0.56
3:D:565:ILE:HD11	5:F:189:GLU:CD	2.26	0.56
1:A:30:ARG:HH12	2:C:938:LYS:HZ2	1.51	0.56
2:M:174:LEU:HB2	2:M:310:LEU:HD22	1.87	0.56
3:N:922:LEU:HB3	3:N:926:LYS:HD3	1.86	0.56
3:D:1394:VAL:HG23	9:D:9862:HOH:O	2.03	0.56
1:K:96:THR:HG22	1:K:145:ASP:OD2	2.06	0.56
2:M:52:PHE:HZ	2:M:98:LEU:HG	1.71	0.56
3:N:999:THR:O	3:N:1002:LYS:HB2	2.06	0.56
1:L:186:LEU:O	1:L:186:LEU:HD23	2.05	0.56
3:D:1412:LYS:HG2	3:D:1414:PRO:HG3	1.86	0.56
3:N:1310:ARG:HG3	3:N:1327:ARG:HB3	1.88	0.56
2:C:91:GLN:HA	2:C:119:PRO:HA	1.88	0.56
2:C:145:GLY:HA3	9:C:9614:HOH:O	2.05	0.56
3:D:961:LYS:HG2	3:D:962:GLN:N	2.18	0.56
2:C:443:THR:CG2	2:C:450:GLY:H	2.17	0.56
2:C:12:VAL:HG13	2:C:13:ILE:HG12	1.87	0.56
1:A:110:LYS:HD2	9:A:525:HOH:O	2.04	0.56
2:M:276:LYS:O	2:M:280:LYS:HB2	2.05	0.56
2:M:621:VAL:HG21	9:M:1969:HOH:O	2.05	0.56
3:N:380:GLU:O	3:N:382:GLU:N	2.37	0.56
4:E:20:THR:HB	9:E:115:HOH:O	2.05	0.56
2:C:554:ASP:OD2	2:C:556:ASN:HB3	2.04	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:104:GLU:HG3	9:K:6398:HOH:O	2.04	0.56
2:C:151:ASP:HB2	2:C:157:ARG:O	2.05	0.56
3:D:427:VAL:CG2	3:D:435:VAL:HB	2.35	0.56
3:D:172:PRO:HB2	3:D:389:GLU:OE1	2.06	0.56
2:M:5:ARG:CB	2:M:902:ILE:HB	2.35	0.56
1:B:212:ASN:O	1:B:215:VAL:HG22	2.05	0.56
1:A:222:LEU:HD11	1:B:218:LEU:HD23	1.86	0.56
2:C:1103:ASP:O	3:D:7:LYS:HE2	2.06	0.56
5:F:152:ASP:HB2	5:F:153:PRO:HD3	1.86	0.56
2:C:865:THR:HB	9:C:9509:HOH:O	2.04	0.56
2:C:34:VAL:CG1	2:C:38:LYS:HG3	2.35	0.56
3:N:774:SER:C	3:N:776:GLU:H	2.09	0.56
2:C:69:LEU:HB3	9:C:9545:HOH:O	2.06	0.56
3:N:808:THR:HB	3:N:809:PRO:HD3	1.87	0.56
1:K:212:ASN:O	1:K:215:VAL:HG22	2.05	0.56
1:L:5:LYS:O	1:L:8:ALA:HB2	2.06	0.56
3:D:493:ARG:HG2	9:D:9725:HOH:O	2.06	0.56
2:M:460:ARG:HD3	9:M:1387:HOH:O	2.06	0.56
3:D:1273:VAL:O	3:D:1325:LEU:HB2	2.05	0.56
4:E:13:VAL:HG11	4:E:19:LEU:HB2	1.87	0.56
2:M:503:LEU:HD12	2:M:505:GLY:H	1.68	0.56
2:M:395:LYS:HE2	2:M:403:SER:OG	2.06	0.56
2:M:627:ARG:HA	9:M:1127:HOH:O	2.06	0.56
3:D:374:GLU:HA	9:D:9592:HOH:O	2.06	0.56
3:N:1136:LYS:O	3:N:1140:ILE:HG13	2.04	0.56
2:M:94:LEU:HG	9:M:2309:HOH:O	2.06	0.56
1:K:28:LEU:HA	9:K:3198:HOH:O	2.05	0.56
1:L:27:PRO:HB3	1:L:192:LEU:HD22	1.86	0.56
1:A:52:ALA:HA	9:A:329:HOH:O	2.05	0.56
3:N:1192:LEU:HD22	3:N:1345:GLU:CD	2.26	0.56
2:M:76:PRO:HB3	9:M:1386:HOH:O	2.05	0.56
3:N:592:THR:N	3:N:600:LEU:HD21	2.20	0.56
3:D:57:GLU:HG3	3:D:64:LYS:HE3	1.86	0.56
3:D:550:ARG:HA	9:D:9553:HOH:O	2.05	0.56
3:D:1099:VAL:HG13	3:D:1223:ILE:HG23	1.86	0.56
2:C:607:ASP:HB3	2:C:609:ASN:H	1.70	0.56
2:C:710:ILE:HB	2:C:790:LEU:HD22	1.88	0.56
3:N:907:GLU:HG2	3:N:908:LYS:H	1.70	0.56
2:M:134:ARG:NH2	2:M:393:GLN:HA	2.21	0.56
3:N:1114:THR:HG23	3:N:1116:ASN:ND2	2.21	0.56
2:M:1068:GLU:OE1	5:P:345:ALA:HA	2.06	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:P:187:LEU:CD2	5:P:191:ASN:HD21	2.18	0.56
3:N:1258:ARG:NE	3:N:1262:LEU:HD11	2.20	0.56
2:M:1000:MET:HB2	9:M:1539:HOH:O	2.05	0.56
2:C:788:THR:HG21	9:C:9498:HOH:O	2.06	0.56
3:N:368:VAL:HA	9:N:9601:HOH:O	2.05	0.56
2:M:261:ILE:HG12	9:M:1716:HOH:O	2.05	0.56
2:M:728:HIS:O	2:M:729:LEU:HG	2.06	0.56
2:M:290:LEU:HD22	2:M:302:VAL:HG11	1.86	0.56
3:N:52:PRO:HB2	3:N:80:VAL:HG13	1.87	0.56
2:M:464:LEU:O	2:M:466:PHE:N	2.37	0.56
3:N:681:ARG:HH11	3:N:681:ARG:CB	2.18	0.56
2:M:1085:PHE:CE2	3:N:1468:LEU:HG	2.41	0.56
3:N:1462:LEU:HD22	3:N:1472:ILE:HG23	1.87	0.56
2:C:1102:LEU:HB3	9:C:9127:HOH:O	2.04	0.56
2:C:480:THR:HA	9:C:9101:HOH:O	2.04	0.56
5:F:278:LEU:O	5:F:282:LEU:HG	2.05	0.56
3:D:704:ARG:CG	3:D:736:PHE:HB3	2.35	0.56
5:P:264:MET:O	5:P:267:THR:HB	2.06	0.56
4:E:67:GLU:HB2	4:E:73:LEU:HD11	1.88	0.56
3:N:1223:ILE:H	3:N:1223:ILE:HD12	1.71	0.56
9:D:9365:HOH:O	5:F:75:ILE:HD13	2.03	0.56
2:C:1004:LYS:HE3	9:C:9959:HOH:O	2.05	0.56
3:D:770:LEU:HB2	3:D:1210:SER:O	2.05	0.56
3:N:530:VAL:HG23	3:N:534:ARG:O	2.06	0.56
3:D:122:GLU:O	3:D:126:VAL:HG23	2.06	0.56
2:M:41:ASN:O	2:M:46:ALA:HB2	2.06	0.56
3:N:581:LEU:HD12	3:N:603:LEU:HD11	1.88	0.56
2:C:287:GLY:HA3	9:C:9623:HOH:O	2.04	0.56
2:C:630:ARG:NH2	2:C:707:ARG:HB2	2.21	0.56
3:D:161:LEU:O	3:D:449:SER:HB2	2.05	0.56
3:N:695:ILE:HG21	3:N:720:LEU:HD11	1.87	0.56
3:N:1399:ASP:O	3:N:1403:LEU:HB2	2.06	0.56
2:M:966:LEU:HD21	2:M:986:PRO:HG3	1.88	0.56
2:M:1109:VAL:HG11	3:N:5:VAL:HG22	1.88	0.56
4:E:54:LEU:O	4:E:54:LEU:HD23	2.06	0.56
3:N:149:LYS:HA	9:N:9205:HOH:O	2.05	0.56
3:D:3:LYS:HB2	9:D:2111:HOH:O	2.05	0.56
2:M:113:VAL:HG12	2:M:115:LEU:HD21	1.88	0.56
2:M:722:ILE:HG22	9:M:2019:HOH:O	2.05	0.56
2:M:802:ARG:HB2	9:M:1206:HOH:O	2.05	0.56
2:C:157:ARG:HE	2:C:157:ARG:HA	1.70	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1117:TYR:HE2	3:D:1151:ARG:HH21	1.53	0.56
3:N:99:ALA:HA	3:N:575:GLN:HE22	1.70	0.56
2:M:618:GLY:HA2	9:M:1261:HOH:O	2.05	0.56
2:C:462:ASP:CG	2:C:463:GLU:H	2.09	0.56
2:C:479:VAL:HG23	2:C:506:ASN:HA	1.87	0.56
2:C:126:SER:HB3	2:C:395:LYS:HZ2	1.70	0.56
2:M:144:PRO:HG3	2:M:165:LEU:HB2	1.88	0.56
2:C:941:VAL:HA	2:C:944:LEU:HD12	1.87	0.56
3:D:838:ARG:HG2	3:D:865:THR:HG23	1.87	0.56
3:D:656:PHE:HB3	3:D:694:VAL:HG11	1.88	0.56
3:D:1087:ARG:HG3	3:D:1234:THR:HA	1.88	0.56
2:M:564:MET:HE1	9:M:1838:HOH:O	2.06	0.56
4:E:51:LEU:HD12	4:E:52:GLU:H	1.70	0.56
5:F:207:LEU:HB3	5:F:212:LEU:HG	1.88	0.56
3:N:1003:VAL:O	3:N:1006:ALA:HB3	2.06	0.56
2:M:794:PRO:HB2	2:M:1027:PHE:CE2	2.40	0.56
3:D:1033:GLN:HE21	3:D:1036:ARG:HH12	1.54	0.56
3:D:774:SER:C	3:D:776:GLU:H	2.08	0.56
3:D:1136:LYS:HA	9:D:9746:HOH:O	2.04	0.56
3:D:394:LEU:HD22	3:D:396:VAL:HB	1.87	0.56
3:N:553:ARG:HD3	9:P:667:HOH:O	2.05	0.56
3:D:787:LEU:HD21	3:D:947:ILE:CD1	2.36	0.56
3:D:544:TYR:O	3:D:548:ILE:HG12	2.06	0.56
3:D:78:VAL:HG23	9:D:2426:HOH:O	2.05	0.56
3:D:183:GLU:O	3:D:186:VAL:HG12	2.06	0.56
3:D:181:ASP:O	3:D:185:VAL:HG23	2.05	0.56
3:N:52:PRO:HG2	3:N:79:GLU:O	2.06	0.56
3:D:1140:ILE:HG21	3:D:1175:ILE:HD11	1.88	0.56
2:M:575:GLN:HB2	9:M:1945:HOH:O	2.06	0.56
1:B:128:HIS:HB3	9:B:620:HOH:O	2.05	0.56
2:M:701:THR:HA	2:M:831:ARG:O	2.04	0.56
1:A:198:ARG:C	1:A:199:ILE:HD12	2.26	0.56
5:F:151:LEU:HB3	9:F:473:HOH:O	2.05	0.56
5:P:323:ASP:HB3	5:P:325:LYS:HZ3	1.71	0.56
3:N:969:ARG:O	3:N:972:LEU:HB3	2.06	0.56
2:M:1014:SER:HB3	2:M:1017:THR:O	2.05	0.56
3:D:480:GLU:O	3:D:484:PRO:HD2	2.05	0.56
1:K:161:ARG:HB2	1:K:161:ARG:NH1	2.21	0.56
1:B:12:THR:OG1	1:B:24:VAL:HB	2.05	0.56
2:C:711:GLU:HG2	2:C:822:VAL:HG12	1.87	0.56
3:N:1129:THR:HG23	3:N:1130:ARG:H	1.70	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:510:ALA:HB3	2:M:513:VAL:CG2	2.36	0.56
3:N:438:ASP:HB2	9:P:527:HOH:O	2.06	0.56
3:N:205:TYR:HA	9:N:2314:HOH:O	2.05	0.55
2:M:1063:ARG:O	2:M:1066:ALA:HB3	2.06	0.55
2:C:666:LEU:HD21	2:C:668:LEU:HD11	1.87	0.55
2:M:551:GLU:HG3	2:M:552:HIS:HD2	1.72	0.55
3:N:95:LEU:CD2	3:N:574:LEU:HD11	2.35	0.55
3:N:574:LEU:O	3:N:578:VAL:HG23	2.06	0.55
1:L:58:ILE:HG22	9:L:1893:HOH:O	2.06	0.55
3:D:1361:VAL:HG23	9:D:9265:HOH:O	2.06	0.55
1:K:57:TYR:CE2	1:K:59:GLU:HA	2.41	0.55
3:D:1330:ILE:HD12	3:D:1347:TYR:CE1	2.41	0.55
3:D:1104:GLU:HA	3:D:1461:GLY:HA2	1.87	0.55
2:C:83:CYS:HA	2:C:88:LEU:HB2	1.87	0.55
3:D:956:ILE:HG12	3:D:1039:CYS:O	2.06	0.55
2:C:1094:ALA:HB1	3:D:603:LEU:HD13	1.87	0.55
3:D:572:ARG:NH1	5:F:80:PRO:HD3	2.21	0.55
3:D:637:LEU:HD12	3:D:641:GLN:OE1	2.05	0.55
2:C:846:LYS:HD2	9:D:2312:HOH:O	2.05	0.55
3:N:1141:GLU:HB3	3:N:1168:MET:HE1	1.89	0.55
1:K:143:ARG:NH1	1:K:143:ARG:HG2	2.19	0.55
3:N:1277:ILE:CD1	3:N:1301:LYS:HB2	2.37	0.55
1:A:198:ARG:HD3	1:A:200:TRP:HH2	1.72	0.55
5:P:268:ILE:HA	5:P:271:LEU:HD12	1.86	0.55
2:M:1014:SER:OG	5:P:331:ASP:HA	2.06	0.55
3:D:1087:ARG:NE	3:D:1238:MET:HB2	2.21	0.55
3:N:637:LEU:HD21	3:N:643:GLY:N	2.20	0.55
2:C:717:LEU:HD12	9:C:2230:HOH:O	2.06	0.55
2:C:541:SER:HB2	9:C:9304:HOH:O	2.06	0.55
3:N:866:VAL:HG11	9:N:9225:HOH:O	2.05	0.55
3:D:1280:VAL:O	3:D:1294:VAL:HA	2.06	0.55
3:D:152:LEU:HD23	3:D:152:LEU:H	1.71	0.55
3:D:162:ARG:HH21	3:D:434:ARG:NH2	2.04	0.55
3:N:550:ARG:NH1	3:N:577:ALA:HB2	2.22	0.55
2:C:431:HIS:CD2	2:C:433:THR:H	2.24	0.55
2:C:433:THR:O	2:C:437:ARG:HD2	2.07	0.55
1:A:14:ARG:HB3	9:A:383:HOH:O	2.05	0.55
1:B:73:GLU:HB3	1:B:77:GLU:HG3	1.86	0.55
2:C:549:PHE:CE2	2:C:886:LEU:HB3	2.41	0.55
5:F:264:MET:O	5:F:267:THR:HB	2.06	0.55
3:D:1129:THR:HA	9:D:9951:HOH:O	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:57:TYR:HB3	1:B:141:GLU:CG	2.34	0.55
2:M:404:LEU:HA	2:M:407:LYS:HD2	1.87	0.55
2:M:607:ASP:HB3	2:M:609:ASN:H	1.71	0.55
2:M:674:VAL:HB	2:M:869:VAL:HG12	1.88	0.55
3:D:402:PRO:HG2	3:D:444:VAL:HG11	1.88	0.55
3:N:1434:TRP:NE1	3:N:1435:LEU:HD12	2.21	0.55
2:M:773:LEU:HG	2:M:777:ILE:HD11	1.88	0.55
4:E:4:PRO:HA	9:E:103:HOH:O	2.05	0.55
3:N:1331:ASP:OD1	3:N:1333:HIS:HB2	2.06	0.55
2:C:129:ILE:CG1	2:C:386:PHE:HB3	2.36	0.55
1:B:30:ARG:HA	9:B:332:HOH:O	2.05	0.55
3:N:903:ASP:HA	9:N:9455:HOH:O	2.06	0.55
2:C:203:ASP:OD1	2:C:205:GLU:HG3	2.06	0.55
5:P:82:ARG:HG2	5:P:86:HIS:NE2	2.21	0.55
2:C:292:ARG:HB2	2:C:299:LYS:HE2	1.89	0.55
2:C:755:LEU:HD21	2:C:792:VAL:HG22	1.88	0.55
2:M:1060:ILE:HG22	2:M:1061:GLU:N	2.22	0.55
2:C:101:ILE:HG22	2:C:102:HIS:H	1.71	0.55
3:N:536:ALA:HA	5:P:315:VAL:O	2.05	0.55
2:C:1000:MET:O	2:C:1003:ASP:HB3	2.06	0.55
3:N:1464:GLU:HG3	9:N:9821:HOH:O	2.06	0.55
5:F:156:VAL:HB	9:F:795:HOH:O	2.06	0.55
3:N:1432:LYS:HA	9:N:9471:HOH:O	2.05	0.55
3:D:1112:CYS:HB2	9:D:9138:HOH:O	2.06	0.55
3:N:159:ARG:HH11	3:N:159:ARG:HB2	1.71	0.55
3:D:790:TYR:CE1	3:D:794:GLN:HG3	2.41	0.55
1:B:24:VAL:HG13	1:B:196:THR:HG22	1.87	0.55
1:B:2:LEU:HD12	1:B:3:ASP:N	2.21	0.55
2:M:816:LYS:HB2	2:M:819:VAL:HG21	1.88	0.55
5:P:272:SER:HB2	9:P:681:HOH:O	2.06	0.55
2:C:676:ILE:HG22	2:C:988:VAL:HG22	1.89	0.55
2:C:979:THR:HG23	2:C:981:GLU:N	2.10	0.55
3:N:183:GLU:O	3:N:186:VAL:HG12	2.06	0.55
2:M:313:LEU:HA	9:M:1315:HOH:O	2.06	0.55
2:M:332:ARG:HE	2:M:464:LEU:HG	1.70	0.55
2:M:1033:GLY:O	2:M:1037:VAL:HG23	2.06	0.55
1:L:50:GLY:O	1:L:146:ARG:HA	2.07	0.55
3:N:1493:LYS:HD2	9:N:2138:HOH:O	2.07	0.55
3:D:104:PHE:CD2	3:D:1448:THR:HG23	2.42	0.55
2:M:61:LYS:HE2	9:M:2301:HOH:O	2.07	0.55
5:F:191:ASN:HA	9:F:669:HOH:O	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1220:ALA:HB1	3:N:1223:ILE:CD1	2.36	0.55
4:O:33:HIS:HB2	4:O:37:ASN:ND2	2.22	0.55
2:M:370:ALA:HA	9:M:1705:HOH:O	2.07	0.55
3:D:1047:LYS:HA	3:D:1053:PHE:CE1	2.41	0.55
3:D:523:ASP:N	9:D:2209:HOH:O	2.39	0.55
2:M:1032:PHE:CE2	2:M:1052:MET:HG2	2.42	0.55
2:C:281:LEU:CD1	2:C:306:THR:HA	2.35	0.55
4:E:13:VAL:HA	9:E:162:HOH:O	2.06	0.55
2:C:585:GLU:HG2	9:C:9499:HOH:O	2.06	0.55
2:M:478:VAL:HG13	2:M:506:ASN:HB3	1.87	0.55
3:N:828:LYS:N	3:N:828:LYS:HD3	2.22	0.55
2:M:136:ILE:HB	2:M:336:VAL:HG22	1.88	0.55
3:N:1114:THR:CG2	3:N:1195:GLN:HB3	2.37	0.55
2:M:165:LEU:HD13	2:M:166:PRO:C	2.27	0.55
1:A:20:TYR:CD2	1:A:21:GLY:N	2.75	0.55
3:N:928:ALA:HA	3:N:931:LEU:HD12	1.88	0.55
3:N:466:LYS:HB2	9:N:9553:HOH:O	2.07	0.55
3:N:789:LEU:HD22	3:N:882:PHE:CE1	2.42	0.55
2:M:203:ASP:CG	2:M:206:THR:HG22	2.27	0.55
2:C:1008:ARG:HH21	2:C:1028:GLY:HA2	1.72	0.55
3:D:966:GLU:O	3:D:969:ARG:HG2	2.06	0.55
1:A:2:LEU:HB3	9:A:364:HOH:O	2.06	0.55
3:N:137:PRO:HD2	3:N:453:ASP:CB	2.36	0.55
3:D:866:VAL:O	3:D:873:LEU:HD12	2.06	0.55
2:C:897:LEU:HD11	2:C:920:GLN:HG2	1.87	0.55
3:N:637:LEU:HD12	3:N:641:GLN:OE1	2.06	0.55
3:N:736:PHE:HA	9:N:9145:HOH:O	2.06	0.55
3:N:937:TYR:HD2	3:N:941:PHE:HE1	1.54	0.55
2:M:1044:GLY:HA3	4:O:17:TYR:CE1	2.41	0.55
5:F:335:ASP:OD1	5:F:338:LEU:HB2	2.07	0.55
3:N:502:PHE:CE1	3:N:509:PRO:HB3	2.42	0.55
3:N:791:TYR:HB2	9:N:9984:HOH:O	2.07	0.55
5:F:74:LYS:HA	9:F:802:HOH:O	2.07	0.55
2:M:169:GLY:HA2	2:M:263:ASP:CB	2.30	0.55
3:D:500:ARG:HG3	9:D:9482:HOH:O	2.07	0.55
3:D:551:ASN:O	3:D:555:LYS:HG3	2.06	0.55
5:F:400:ILE:HG23	9:F:704:HOH:O	2.07	0.55
5:F:292:ALA:HB1	5:F:299:TRP:O	2.06	0.55
2:M:479:VAL:CG2	2:M:503:LEU:HD11	2.35	0.55
3:N:679:ARG:NH1	3:N:681:ARG:HD2	2.22	0.55
3:N:654:LYS:HD3	3:N:674:ARG:HH22	1.72	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:444:VAL:HG21	9:D:2119:HOH:O	2.06	0.55
5:P:271:LEU:HD11	5:P:307:THR:HB	1.88	0.55
1:A:193:ASP:HB2	9:A:371:HOH:O	2.07	0.55
3:N:1346:ARG:HB3	9:N:9264:HOH:O	2.06	0.55
3:D:969:ARG:O	3:D:972:LEU:HB3	2.07	0.55
2:M:750:LYS:HD2	9:M:2092:HOH:O	2.06	0.55
5:F:222:ARG:O	5:F:225:GLU:HG2	2.07	0.55
9:C:9650:HOH:O	4:E:31:LEU:HD21	2.07	0.55
3:D:33:ASN:HD22	3:D:33:ASN:C	2.09	0.55
3:D:1243:THR:HB	3:D:1253:THR:HG22	1.87	0.55
2:M:1000:MET:HB3	2:M:1002:GLU:HG3	1.88	0.55
3:D:929:ARG:HH11	3:D:929:ARG:HG3	1.72	0.55
5:F:247:ILE:O	5:F:251:ILE:HG13	2.07	0.55
2:C:776:SER:HA	2:C:780:GLU:HB3	1.89	0.55
2:M:1087:VAL:HG12	2:M:1091:GLU:OE1	2.06	0.55
1:K:88:ARG:NH1	1:K:90:LEU:HG	2.22	0.55
5:P:137:GLY:HA2	9:P:594:HOH:O	2.06	0.55
2:C:508:ILE:HG21	9:C:2036:HOH:O	2.07	0.55
3:D:654:LYS:HB3	3:D:655:PRO:HD3	1.87	0.55
3:N:631:ILE:HG23	3:N:743:ASP:O	2.06	0.55
3:N:1262:LEU:HD21	3:N:1351:GLU:HG3	1.88	0.55
2:M:383:ARG:HB2	2:M:383:ARG:NH1	2.22	0.55
2:M:31:GLN:HB2	9:M:1251:HOH:O	2.07	0.55
2:C:59:LYS:HA	9:C:9698:HOH:O	2.07	0.55
4:E:47:LYS:HA	4:E:54:LEU:HB3	1.88	0.55
1:K:152:PRO:HD2	1:K:155:LYS:HG3	1.88	0.55
1:L:80:LEU:HB3	3:N:867:ARG:HH22	1.71	0.55
1:A:146:ARG:HD3	9:A:550:HOH:O	2.06	0.55
3:D:126:VAL:HG12	3:D:132:TYR:HB2	1.88	0.55
2:M:101:ILE:HG22	2:M:102:HIS:H	1.71	0.55
3:N:925:GLU:OE1	4:O:6:ILE:HG22	2.07	0.55
5:P:104:ARG:HD3	9:P:457:HOH:O	2.06	0.55
3:D:579:ASP:HB2	9:D:9640:HOH:O	2.06	0.55
2:M:269:LEU:HD11	9:M:1235:HOH:O	2.07	0.55
5:P:214:GLN:HA	5:P:217:ASN:ND2	2.22	0.55
2:C:110:GLU:HG3	9:C:2308:HOH:O	2.07	0.55
2:C:150:PRO:CA	2:C:158:TYR:HB3	2.32	0.55
2:C:359:MET:HB2	9:C:9403:HOH:O	2.06	0.55
5:F:273:ARG:HD3	9:F:632:HOH:O	2.07	0.55
3:D:1141:GLU:HG2	3:D:1168:MET:CE	2.36	0.55
1:K:65:PHE:CE1	2:M:799:ILE:HD11	2.42	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:710:ARG:HD3	9:D:9920:HOH:O	2.06	0.55
2:M:707:ARG:NE	2:M:824:ARG:HG2	2.22	0.55
2:C:160:ALA:O	2:C:173:ASP:HA	2.07	0.55
1:K:50:GLY:O	1:K:146:ARG:HA	2.07	0.55
2:C:276:LYS:O	2:C:280:LYS:HB2	2.07	0.55
3:D:508:ARG:HG2	3:D:509:PRO:HD2	1.89	0.55
3:N:149:LYS:HG2	9:N:2323:HOH:O	2.06	0.55
3:D:404:GLU:HB3	3:D:414:ARG:CD	2.37	0.55
3:D:1059:SER:HB3	9:D:2673:HOH:O	2.06	0.55
4:O:26:ARG:O	4:O:29:GLN:HG3	2.07	0.55
1:A:79:ILE:HD11	9:C:9944:HOH:O	2.06	0.55
5:F:376:ILE:HG22	5:F:377:ASP:OD1	2.06	0.55
3:D:80:VAL:HG12	3:D:81:THR:O	2.06	0.55
2:C:194:VAL:HG21	2:C:221:LEU:O	2.07	0.55
3:N:12:LEU:HD23	3:N:13:ALA:H	1.72	0.55
2:C:360:LEU:HB2	9:C:2222:HOH:O	2.07	0.55
2:C:798:GLY:H	2:C:827:VAL:HG11	1.72	0.55
3:N:194:GLY:N	3:N:206:ARG:HA	2.17	0.55
3:D:1137:ARG:O	3:D:1141:GLU:HG3	2.06	0.55
2:C:1039:ALA:HA	3:D:710:ARG:HA	1.87	0.55
9:M:1280:HOH:O	5:P:345:ALA:HB1	2.07	0.55
2:M:675:ALA:HB2	2:M:867:VAL:HG11	1.87	0.55
3:D:190:GLU:HG3	3:D:210:ARG:NE	2.22	0.55
3:N:112:ILE:O	3:N:116:LEU:HB2	2.07	0.55
3:D:1109:GLU:HG2	3:D:1202:GLN:H	1.70	0.55
3:N:1118:ILE:HG21	3:N:1346:ARG:NH2	2.22	0.55
2:M:1014:SER:OG	2:M:1017:THR:HG23	2.06	0.55
1:B:61:VAL:HG11	1:B:75:VAL:HG21	1.89	0.55
3:N:1280:VAL:O	3:N:1294:VAL:HA	2.07	0.55
3:N:809:PRO:O	3:N:812:ALA:HB3	2.07	0.55
3:N:464:LEU:HD11	9:N:9487:HOH:O	2.05	0.55
3:D:823:LEU:HD11	9:D:9442:HOH:O	2.06	0.55
3:N:1402:ALA:HA	9:N:2024:HOH:O	2.07	0.55
3:N:1246:VAL:HG23	9:N:2017:HOH:O	2.07	0.55
3:D:1116:ASN:HB3	9:D:9838:HOH:O	2.07	0.55
3:D:854:ALA:HB3	9:D:9585:HOH:O	2.06	0.55
3:N:191:LEU:HD11	9:N:9688:HOH:O	2.07	0.54
2:M:260:LEU:HA	2:M:291:ALA:HB2	1.88	0.54
2:C:254:VAL:HG13	2:C:258:TYR:CE1	2.39	0.54
5:F:408:LEU:HD13	5:F:411:HIS:HE1	1.71	0.54
2:M:580:MET:HB3	2:M:584:GLU:OE1	2.06	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:41:ASN:H	2:C:41:ASN:ND2	2.05	0.54
4:E:26:ARG:HG2	4:E:67:GLU:OE1	2.07	0.54
3:N:1336:LEU:HD11	3:N:1341:PRO:HG3	1.89	0.54
2:C:237:ARG:HB3	9:C:2092:HOH:O	2.07	0.54
5:F:134:LYS:HE3	5:F:134:LYS:HA	1.89	0.54
2:M:516:ARG:HD2	3:N:1068:LEU:HD22	1.88	0.54
3:N:1004:THR:O	3:N:1007:VAL:HG22	2.08	0.54
3:N:584:ASN:HD21	3:N:590:PRO:HB2	1.73	0.54
2:M:115:LEU:HB3	9:M:1563:HOH:O	2.07	0.54
2:C:476:GLY:HA3	9:C:2018:HOH:O	2.06	0.54
3:N:1237:THR:HG23	9:N:2626:HOH:O	2.07	0.54
2:M:683:ASN:HA	2:M:687:ALA:HB3	1.88	0.54
3:D:684:LYS:HB3	3:D:686:GLU:HG3	1.88	0.54
2:C:801:VAL:HG12	9:C:9536:HOH:O	2.07	0.54
2:C:208:ALA:HA	2:C:218:VAL:HG22	1.89	0.54
2:M:535:SER:O	2:M:538:GLN:HG2	2.07	0.54
2:M:129:ILE:HA	9:M:1586:HOH:O	2.06	0.54
2:C:1005:MET:HE3	3:D:648:MET:HB2	1.88	0.54
3:N:1145:TYR:CE2	3:N:1168:MET:HB2	2.42	0.54
5:P:403:LYS:HZ1	5:P:406:ARG:HD2	1.72	0.54
3:D:207:PHE:CB	3:D:208:PRO:HD2	2.34	0.54
5:P:269:ASN:O	5:P:273:ARG:HG3	2.07	0.54
3:D:1493:LYS:HD2	9:D:9991:HOH:O	2.06	0.54
1:B:102:LYS:HG3	1:B:139:ASN:HB2	1.89	0.54
3:D:1087:ARG:HA	3:D:1090:ASP:HB2	1.89	0.54
3:D:1419:PRO:HG3	9:D:9624:HOH:O	2.06	0.54
1:B:185:ARG:HG3	1:B:190:THR:HG23	1.89	0.54
2:M:225:SER:HB2	9:M:1229:HOH:O	2.05	0.54
3:N:486:ARG:HA	3:N:489:ARG:HD3	1.88	0.54
5:F:344:ALA:HA	9:F:569:HOH:O	2.07	0.54
5:F:254:GLN:HA	9:F:652:HOH:O	2.06	0.54
1:A:66:SER:O	1:A:75:VAL:HG23	2.07	0.54
3:D:588:GLY:HA3	9:D:9281:HOH:O	2.06	0.54
2:M:197:LEU:HB3	2:M:202:TYR:HB2	1.89	0.54
3:N:540:LEU:HD12	3:N:543:LEU:HD11	1.89	0.54
1:A:191:ASP:O	1:A:192:LEU:HD23	2.08	0.54
5:F:361:LEU:HD21	5:F:404:ALA:HB1	1.89	0.54
2:M:135:VAL:HG21	9:M:1664:HOH:O	2.07	0.54
1:K:133:GLU:OE2	2:M:605:LYS:HB3	2.07	0.54
3:N:683:ILE:HG23	3:N:687:VAL:HG21	1.89	0.54
9:D:2160:HOH:O	4:E:61:GLU:HG3	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1205:TYR:CD2	3:D:1215:VAL:HG21	2.43	0.54
2:C:536:PRO:HB3	2:C:906:PHE:HD1	1.72	0.54
1:L:123:MET:HG2	9:L:2070:HOH:O	2.06	0.54
3:N:1240:THR:O	3:N:1257:PRO:HB3	2.08	0.54
1:A:117:VAL:HG22	9:A:335:HOH:O	2.06	0.54
2:M:817:PRO:HB2	5:P:309:LYS:HZ1	1.73	0.54
2:M:409:ARG:NH1	2:M:444:PRO:HG3	2.23	0.54
5:P:87:GLU:HG3	9:P:720:HOH:O	2.06	0.54
5:F:185:GLN:HA	9:F:445:HOH:O	2.06	0.54
3:D:133:ILE:HG22	3:D:455:ARG:N	2.22	0.54
3:N:698:LYS:HD2	9:N:9171:HOH:O	2.06	0.54
1:L:156:HIS:CE1	1:L:166:PRO:HB3	2.43	0.54
3:N:1020:LEU:HA	3:N:1023:MET:CE	2.38	0.54
5:F:249:ARG:HH21	5:F:262:VAL:CG2	2.21	0.54
2:M:799:ILE:HD13	2:M:799:ILE:N	2.23	0.54
3:D:817:GLU:O	3:D:821:VAL:HG23	2.07	0.54
3:D:1236:LEU:HD12	3:D:1256:LEU:HD12	1.89	0.54
3:N:1047:LYS:HB3	3:N:1048:PRO:CD	2.38	0.54
2:C:472:ARG:HD2	2:C:480:THR:O	2.07	0.54
1:L:154:GLU:OE2	3:N:840:LYS:HD2	2.07	0.54
1:B:8:ALA:HB3	9:B:351:HOH:O	2.06	0.54
2:C:470:PRO:HB3	2:C:485:TYR:CE1	2.43	0.54
3:D:164:GLY:HA2	9:D:9177:HOH:O	2.07	0.54
3:N:424:GLY:HA2	3:N:435:VAL:O	2.07	0.54
3:N:435:VAL:HG21	9:N:9419:HOH:O	2.07	0.54
3:N:956:ILE:HG12	3:N:1039:CYS:O	2.08	0.54
3:D:55:ASP:HA	3:D:82:LYS:HG3	1.90	0.54
2:C:260:LEU:HD12	9:C:9623:HOH:O	2.08	0.54
5:F:97:GLU:N	9:F:641:HOH:O	2.40	0.54
2:M:368:THR:HG22	9:M:1143:HOH:O	2.08	0.54
5:F:302:LYS:HG3	5:F:303:ARG:N	2.22	0.54
2:C:697:ARG:HG3	2:C:699:PHE:CD1	2.42	0.54
2:M:265:ARG:HG2	2:M:266:ARG:N	2.23	0.54
2:C:63:GLY:O	2:C:103:LYS:HE2	2.08	0.54
3:D:212:ARG:HB2	3:D:445:ARG:HH22	1.72	0.54
2:C:537:LYS:HD2	2:C:537:LYS:H	1.72	0.54
1:K:92:PRO:HD3	9:K:5415:HOH:O	2.06	0.54
2:M:838:LYS:HG2	9:M:1281:HOH:O	2.07	0.54
3:N:737:ASN:HA	9:N:2508:HOH:O	2.06	0.54
5:P:125:ASP:HB2	9:P:516:HOH:O	2.07	0.54
3:N:540:LEU:O	3:N:543:LEU:HG	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:559:ALA:O	5:F:132:ARG:NH2	2.38	0.54
2:C:407:LYS:HG2	9:C:9933:HOH:O	2.07	0.54
2:M:530:GLU:HG2	9:M:1593:HOH:O	2.07	0.54
2:C:815:LEU:HD21	2:C:820:ARG:O	2.08	0.54
3:N:538:SER:N	5:P:317:LEU:HD12	2.23	0.54
5:P:321:ILE:HB	5:P:327:SER:OG	2.08	0.54
3:D:153:LEU:HD12	3:D:154:THR:N	2.23	0.54
2:C:183:SER:HB2	2:C:190:LYS:CG	2.37	0.54
3:N:615:ARG:HB2	9:N:2415:HOH:O	2.06	0.54
1:A:50:GLY:O	1:A:146:ARG:HA	2.07	0.54
4:E:86:GLN:O	4:E:90:GLU:HG3	2.08	0.54
3:D:957:PRO:HG3	3:D:1007:VAL:HA	1.89	0.54
2:M:510:ALA:HB3	2:M:513:VAL:HG23	1.89	0.54
3:D:619:LEU:HB2	9:D:9918:HOH:O	2.06	0.54
3:N:1340:GLY:HA2	9:N:2126:HOH:O	2.07	0.54
3:D:116:LEU:HD23	3:D:468:LEU:HD11	1.89	0.54
3:D:423:ASP:HA	9:D:9719:HOH:O	2.07	0.54
2:M:208:ALA:HA	2:M:218:VAL:HG22	1.90	0.54
2:C:1087:VAL:HG22	2:C:1091:GLU:OE2	2.08	0.54
3:D:10:ILE:HG13	3:D:1434:TRP:CE2	2.42	0.54
2:C:196:LEU:CD2	2:C:200:LEU:HD11	2.37	0.54
5:F:93:LEU:HD21	5:F:102:LEU:HD11	1.88	0.54
2:M:943:VAL:HG11	2:M:973:VAL:HG22	1.89	0.54
2:M:627:ARG:HG3	9:M:1580:HOH:O	2.08	0.54
2:C:839:LEU:HD12	2:C:994:ILE:HG21	1.89	0.54
2:M:163:ILE:HG13	2:M:163:ILE:O	2.08	0.54
1:A:86:VAL:HA	9:A:482:HOH:O	2.08	0.54
1:K:125:PRO:HD2	9:K:3406:HOH:O	2.06	0.54
4:E:48:MET:HB2	4:E:54:LEU:HD12	1.87	0.54
2:C:1008:ARG:HH22	2:C:1012:PRO:HD2	1.73	0.54
1:A:69:PRO:HD3	9:A:508:HOH:O	2.08	0.54
3:N:957:PRO:HG3	3:N:1007:VAL:HA	1.89	0.54
1:A:90:LEU:HB3	9:A:368:HOH:O	2.07	0.54
1:A:219:ARG:NH2	1:B:223:THR:HG22	2.23	0.54
2:M:102:HIS:HD2	2:M:104:ASP:HB2	1.73	0.54
3:N:1297:GLU:HA	9:N:9439:HOH:O	2.06	0.54
2:M:229:MET:HE3	9:M:1376:HOH:O	2.06	0.54
3:N:650:LEU:HD13	3:N:688:TRP:HZ3	1.72	0.54
3:D:647:ARG:NH1	3:D:650:LEU:HD23	2.23	0.54
5:P:229:TYR:HB3	9:P:557:HOH:O	2.08	0.54
1:B:147:GLY:HA3	9:B:625:HOH:O	2.06	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:580:MET:HB3	2:C:584:GLU:CD	2.28	0.54
2:C:124:ASP:CG	2:C:407:LYS:HZ1	2.11	0.54
2:C:665:PHE:HA	9:C:9558:HOH:O	2.08	0.54
3:N:833:GLU:HB2	9:N:2343:HOH:O	2.08	0.54
1:L:7:LYS:HG2	9:L:6833:HOH:O	2.07	0.54
2:M:682:TYR:N	9:M:1161:HOH:O	2.41	0.54
1:A:107:LYS:HB3	9:A:531:HOH:O	2.07	0.54
3:D:965:GLU:HG3	3:D:969:ARG:NH2	2.23	0.54
2:M:1103:ASP:HB3	2:M:1105:LYS:O	2.08	0.54
2:M:143:SER:HB3	2:M:330:ASN:O	2.07	0.54
3:D:880:ILE:O	3:D:883:ALA:HB3	2.08	0.54
1:A:137:ARG:HD3	9:A:518:HOH:O	2.08	0.54
1:K:189:ARG:HB3	9:K:2117:HOH:O	2.06	0.54
2:C:432:ARG:HH12	3:D:1047:LYS:CD	2.16	0.54
2:C:538:GLN:HB2	9:C:9427:HOH:O	2.08	0.54
3:D:434:ARG:HB2	3:D:447:VAL:HG22	1.90	0.54
9:M:1734:HOH:O	3:N:603:LEU:HB3	2.08	0.54
9:D:2706:HOH:O	5:F:94:LEU:HD11	2.08	0.54
3:N:42:ASP:O	3:N:46:ASP:HB2	2.08	0.54
2:M:150:PRO:CA	2:M:158:TYR:HB3	2.34	0.54
3:D:1211:MET:HG3	3:D:1213:ARG:HG2	1.90	0.54
5:P:122:LEU:HD11	5:P:126:LEU:HD23	1.90	0.54
3:N:151:GLN:HA	9:N:9372:HOH:O	2.07	0.54
2:M:91:GLN:HA	2:M:119:PRO:HA	1.89	0.54
3:D:1304:LYS:HB3	9:D:9262:HOH:O	2.07	0.54
3:D:1278:ASP:HA	3:D:1319:VAL:O	2.07	0.54
1:A:39:PRO:O	1:A:43:ILE:HG12	2.08	0.54
3:D:2:LYS:HB2	9:D:2382:HOH:O	2.07	0.54
1:B:80:LEU:HG	3:D:844:ALA:HB2	1.89	0.54
2:M:420:ARG:CZ	2:M:420:ARG:H	2.20	0.54
3:D:537:THR:C	5:F:317:LEU:HB2	2.28	0.54
2:M:260:LEU:HD13	2:M:291:ALA:HB1	1.89	0.54
2:C:435:TYR:C	2:C:437:ARG:H	2.11	0.54
2:C:704:HIS:CG	2:C:831:ARG:HE	2.26	0.54
2:M:178:PRO:HB2	9:M:1868:HOH:O	2.08	0.54
2:M:367:LEU:HB3	2:M:371:LYS:HG2	1.89	0.54
2:C:577:PRO:HD2	2:C:580:MET:SD	2.48	0.54
3:D:1168:MET:CE	3:D:1171:VAL:HB	2.37	0.54
2:M:525:SER:OG	2:M:528:GLU:HG3	2.08	0.54
3:N:658:LEU:HD11	3:N:674:ARG:NH1	2.23	0.54
5:F:314:PRO:HD2	9:F:541:HOH:O	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:208:PRO:HB2	3:D:395:VAL:HG13	1.89	0.54
3:N:639:LEU:HD12	3:N:640:HIS:H	1.73	0.54
2:M:701:THR:HG22	2:M:832:LYS:HA	1.90	0.54
9:N:9235:HOH:O	4:O:84:ARG:HG2	2.08	0.54
4:E:29:GLN:HB2	4:E:33:HIS:CD2	2.43	0.54
1:K:86:VAL:HG13	1:K:124:ASN:HB2	1.88	0.54
3:N:1362:LYS:HD2	9:N:9154:HOH:O	2.08	0.54
3:N:774:SER:HB3	3:N:1362:LYS:O	2.08	0.54
1:A:126:ASP:HB2	9:A:319:HOH:O	2.06	0.54
1:B:7:LYS:HD3	9:B:350:HOH:O	2.08	0.54
1:A:83:LYS:HD3	9:C:9911:HOH:O	2.08	0.54
1:B:125:PRO:HD2	9:B:330:HOH:O	2.06	0.54
2:M:863:ASP:OD2	2:M:865:THR:HG22	2.07	0.54
2:C:134:ARG:HB2	9:C:9111:HOH:O	2.08	0.54
3:D:407:VAL:HG11	9:D:9989:HOH:O	2.07	0.54
2:C:557:ARG:HA	2:C:560:MET:HG3	1.90	0.53
5:P:370:LYS:HB3	5:P:370:LYS:NZ	2.23	0.53
3:D:1478:SER:O	3:D:1482:ARG:HG3	2.08	0.53
4:E:10:PHE:HE2	4:E:16:LYS:HG3	1.73	0.53
3:D:786:ILE:HD13	3:D:908:LYS:HB3	1.89	0.53
1:K:143:ARG:HD2	1:K:145:ASP:OD1	2.07	0.53
1:L:101:LEU:HB2	1:L:114:PHE:CD2	2.42	0.53
2:C:1019:GLN:NE2	3:D:621:LYS:HG2	2.23	0.53
2:C:139:GLN:CD	2:C:415:PRO:HD3	2.28	0.53
1:K:9:PRO:HD3	9:K:7377:HOH:O	2.09	0.53
3:N:1439:SER:HB2	3:N:1440:PHE:CE2	2.43	0.53
1:A:23:PHE:CD1	1:A:211:LEU:HD23	2.43	0.53
3:N:534:ARG:HG3	9:P:700:HOH:O	2.07	0.53
2:M:370:ALA:HB1	9:P:652:HOH:O	2.07	0.53
3:D:102:ILE:HD12	3:D:579:ASP:HB3	1.90	0.53
3:D:1308:GLU:HG3	9:D:9479:HOH:O	2.07	0.53
2:M:57:GLU:OE1	2:M:63:GLY:HA2	2.09	0.53
5:P:201:LYS:HA	9:P:769:HOH:O	2.08	0.53
5:P:181:GLU:O	5:P:184:ARG:HB3	2.09	0.53
3:D:536:ALA:HB1	5:F:317:LEU:HG	1.90	0.53
2:C:771:GLU:HA	9:C:9832:HOH:O	2.07	0.53
3:D:213:VAL:HG22	3:D:214:GLU:N	2.23	0.53
2:C:579:VAL:HB	2:C:890:LEU:HD22	1.91	0.53
1:L:153:ALA:HA	1:L:156:HIS:NE2	2.23	0.53
3:N:1381:VAL:HG12	3:N:1389:LEU:HA	1.89	0.53
2:M:141:HIS:HB2	9:M:2114:HOH:O	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:147:VAL:HG11	9:D:9673:HOH:O	2.09	0.53
1:A:5:LYS:O	1:A:8:ALA:HB2	2.08	0.53
3:N:1186:VAL:HG12	9:N:9329:HOH:O	2.07	0.53
1:A:34:VAL:HG21	2:C:939:ARG:HD2	1.90	0.53
1:B:49:PRO:HA	9:B:484:HOH:O	2.07	0.53
3:D:1008:PHE:HD1	9:D:9273:HOH:O	1.91	0.53
3:N:809:PRO:HB2	3:N:812:ALA:HB2	1.89	0.53
3:D:1295:GLU:HB3	3:D:1300:SER:CB	2.38	0.53
2:C:617:ASP:HB2	9:C:2129:HOH:O	2.08	0.53
2:C:48:PHE:HD1	2:C:348:LEU:HD11	1.72	0.53
2:C:1059:ASP:OD2	2:C:1080:SER:N	2.41	0.53
2:M:300:ASP:HB2	9:M:1355:HOH:O	2.08	0.53
3:D:42:ASP:O	3:D:43:GLY:O	2.26	0.53
3:D:583:ASP:HA	3:D:602:SER:OG	2.08	0.53
3:D:493:ARG:HH12	3:D:1390:LEU:H	1.56	0.53
2:C:467:ILE:HG22	9:C:9653:HOH:O	2.09	0.53
5:P:156:VAL:HG21	9:P:654:HOH:O	2.07	0.53
3:N:836:VAL:HA	3:N:839:LEU:HB2	1.90	0.53
2:M:580:MET:HB3	2:M:584:GLU:CD	2.29	0.53
2:M:610:ARG:C	2:M:611:ILE:HD12	2.29	0.53
9:M:2111:HOH:O	3:N:1086:LEU:HD12	2.08	0.53
1:K:25:LEU:HD22	1:K:28:LEU:HD11	1.89	0.53
3:D:699:VAL:H	3:D:756:GLN:HE22	1.53	0.53
2:M:432:ARG:HH22	3:N:1047:LYS:HD3	1.72	0.53
2:C:897:LEU:HB3	2:C:899:GLN:HE21	1.72	0.53
1:B:5:LYS:O	1:B:8:ALA:HB2	2.08	0.53
1:L:212:ASN:O	1:L:215:VAL:HG22	2.08	0.53
1:L:92:PRO:HB3	9:L:3281:HOH:O	2.07	0.53
4:O:7:ASP:HB2	9:O:1394:HOH:O	2.07	0.53
2:C:676:ILE:HG23	3:D:948:THR:HB	1.91	0.53
2:M:950:LEU:HB3	2:M:952:LEU:HD23	1.91	0.53
5:P:160:ASP:HA	5:P:163:LEU:HD12	1.88	0.53
3:D:10:ILE:HG13	3:D:1434:TRP:CZ2	2.44	0.53
2:C:302:VAL:O	2:C:306:THR:HG23	2.09	0.53
2:C:611:ILE:HD12	2:C:625:LEU:HD21	1.89	0.53
2:M:466:PHE:HA	9:M:1427:HOH:O	2.08	0.53
1:A:49:PRO:O	1:A:173:PRO:HG2	2.08	0.53
1:A:2:LEU:HD23	9:A:444:HOH:O	2.08	0.53
3:D:1239:ARG:NH2	3:D:1254:GLN:H	2.04	0.53
2:C:1054:THR:HG22	2:C:1082:PRO:HG3	1.90	0.53
3:D:844:ALA:O	3:D:867:ARG:HB3	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1380:GLU:HB2	9:D:9967:HOH:O	2.08	0.53
2:M:1038:TRP:HA	2:M:1041:GLU:HB2	1.90	0.53
3:D:1455:LYS:HD3	3:D:1456:LYS:N	2.22	0.53
2:C:1094:ALA:CB	3:D:603:LEU:HD22	2.38	0.53
1:A:26:GLU:HG3	1:A:194:LYS:HD3	1.91	0.53
3:D:148:GLU:HA	9:D:9225:HOH:O	2.08	0.53
2:C:516:ARG:HG3	3:D:1068:LEU:HD13	1.90	0.53
2:C:1056:LYS:HB3	3:D:624:ASP:H	1.73	0.53
5:P:329:TYR:HA	5:P:332:PHE:CD2	2.43	0.53
2:C:1057:SER:N	9:C:9391:HOH:O	2.41	0.53
2:M:394:PHE:HB3	9:M:2270:HOH:O	2.07	0.53
2:M:71:TYR:HD2	2:M:71:TYR:H	1.53	0.53
3:D:1194:CYS:HB3	3:D:1373:ARG:NH2	2.24	0.53
3:N:1324:PRO:HA	9:N:9480:HOH:O	2.08	0.53
1:A:54:THR:HG22	1:A:158:ILE:HG13	1.89	0.53
1:L:182:GLU:HB3	9:N:9274:HOH:O	2.08	0.53
3:N:517:VAL:HG23	9:N:9412:HOH:O	2.09	0.53
2:C:976:ASP:HB2	2:C:979:THR:HG22	1.91	0.53
3:N:196:VAL:HG13	3:N:202:VAL:CG1	2.38	0.53
2:C:274:ARG:HD2	2:C:285:LEU:HD22	1.89	0.53
3:N:829:VAL:HG11	9:N:9969:HOH:O	2.07	0.53
1:A:191:ASP:HA	9:A:415:HOH:O	2.08	0.53
3:N:55:ASP:O	3:N:82:LYS:HA	2.09	0.53
3:N:699:VAL:H	3:N:756:GLN:HE22	1.56	0.53
3:N:18:ILE:HD13	3:N:21:TRP:HZ3	1.74	0.53
2:C:41:ASN:O	2:C:46:ALA:HB2	2.08	0.53
3:N:1264:GLU:OE1	3:N:1425:THR:HB	2.08	0.53
3:N:1122:LEU:O	3:N:1134:LEU:HG	2.07	0.53
3:D:706:PRO:HD2	9:D:2458:HOH:O	2.07	0.53
2:C:642:ARG:HB3	9:C:9549:HOH:O	2.08	0.53
3:D:1403:LEU:HD23	3:D:1407:LEU:HD22	1.90	0.53
3:D:587:ARG:HH21	5:F:74:LYS:N	2.06	0.53
3:N:1324:PRO:HG3	3:N:1330:ILE:HD11	1.90	0.53
1:B:180:GLN:HA	9:B:451:HOH:O	2.08	0.53
2:M:69:LEU:HD13	9:M:1301:HOH:O	2.09	0.53
2:C:9:ILE:O	2:C:9:ILE:HG13	2.09	0.53
2:M:351:LEU:HB2	9:M:1300:HOH:O	2.08	0.53
2:C:99:GLN:HB2	9:C:2009:HOH:O	2.09	0.53
3:N:434:ARG:HB2	3:N:447:VAL:CG1	2.38	0.53
2:C:682:TYR:N	9:C:9083:HOH:O	2.42	0.53
3:D:54:LYS:HD3	3:D:57:GLU:CD	2.29	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:95:LEU:HD21	3:D:547:LEU:HD11	1.91	0.53
5:F:327:SER:HA	9:F:494:HOH:O	2.09	0.53
2:M:857:ASP:HB2	2:M:978:ARG:CG	2.30	0.53
2:M:1018:GLN:HG2	9:M:1375:HOH:O	2.07	0.53
1:A:152:PRO:HB3	2:C:832:LYS:NZ	2.24	0.53
2:M:12:VAL:HG22	2:M:13:ILE:HG23	1.91	0.53
2:M:474:VAL:HG23	2:M:478:VAL:O	2.09	0.53
2:C:838:LYS:HB3	2:C:848:VAL:HG22	1.91	0.53
3:D:6:ARG:HD3	3:D:7:LYS:HZ3	1.74	0.53
3:D:1240:THR:O	3:D:1257:PRO:HB3	2.08	0.53
1:A:38:ASN:HB3	1:A:39:PRO:HD3	1.89	0.53
3:N:633:VAL:C	3:N:635:PRO:HD3	2.28	0.53
2:M:401:LEU:HD22	2:M:546:LEU:HD12	1.90	0.53
1:K:151:VAL:HB	1:K:169:ALA:HB3	1.91	0.53
3:D:1044:LEU:HD21	3:D:1056:PRO:HG3	1.91	0.53
2:M:519:GLY:HA3	9:M:1578:HOH:O	2.07	0.53
3:D:574:LEU:O	3:D:578:VAL:HG23	2.08	0.53
3:D:1148:VAL:HG13	3:D:1163:GLY:O	2.09	0.53
2:M:355:VAL:HG11	9:M:2137:HOH:O	2.09	0.53
5:F:228:GLU:HB3	5:F:231:ARG:HD2	1.91	0.53
2:C:240:THR:HG23	9:C:2111:HOH:O	2.08	0.53
5:P:195:VAL:HG11	5:P:217:ASN:OD1	2.09	0.53
3:N:423:ASP:OD1	5:P:174:LEU:HD13	2.08	0.53
3:D:62:LYS:HB3	3:D:63:TYR:CD1	2.44	0.53
3:N:186:VAL:HG13	3:N:187:LYS:N	2.24	0.53
3:D:214:GLU:OE2	3:D:390:PRO:HB2	2.09	0.53
3:N:783:ARG:CD	3:N:1029:ARG:HG2	2.35	0.53
5:P:414:ARG:HG2	9:P:634:HOH:O	2.08	0.53
9:C:2137:HOH:O	3:D:1068:LEU:HD21	2.09	0.53
3:N:133:ILE:HG21	3:N:454:ALA:CB	2.36	0.53
3:N:679:ARG:HB2	3:N:682:ASP:OD2	2.08	0.53
2:M:859:PRO:O	2:M:867:VAL:HG22	2.07	0.53
4:O:90:GLU:HG2	9:O:1556:HOH:O	2.08	0.53
2:C:129:ILE:HG12	2:C:386:PHE:HB3	1.91	0.53
3:N:715:ALA:HB3	3:N:764:LEU:HA	1.91	0.53
5:F:148:LYS:HE3	9:F:702:HOH:O	2.09	0.53
1:K:227:ASN:N	1:K:227:ASN:HD22	2.07	0.53
2:C:13:ILE:HB	9:C:9332:HOH:O	2.08	0.53
3:N:1496:GLU:HA	3:N:1499:ARG:HD2	1.89	0.53
2:M:520:GLU:O	2:M:522:VAL:HG23	2.09	0.53
3:N:799:LYS:H	3:N:826:PRO:HG2	1.73	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:953:VAL:HG13	2:C:966:LEU:HD13	1.89	0.53
3:D:850:LEU:HD12	3:D:851:LEU:HD23	1.91	0.53
3:N:181:ASP:O	3:N:185:VAL:HG23	2.09	0.53
3:D:1206:GLY:HA3	3:D:1366:LYS:HZ1	1.74	0.53
2:M:264:PRO:HB3	2:M:289:THR:HB	1.91	0.53
2:C:52:PHE:CD2	2:C:68:PHE:HB2	2.44	0.53
1:A:189:ARG:HH12	1:B:155:LYS:HE3	1.73	0.53
2:M:358:ARG:HH22	2:M:374:ASN:HB3	1.74	0.53
2:C:137:VAL:O	2:C:391:LEU:HD21	2.08	0.53
4:O:48:MET:HB2	4:O:54:LEU:HB2	1.91	0.53
3:N:549:ASN:OD1	5:P:254:GLN:HB3	2.09	0.53
3:N:1047:LYS:HG2	3:N:1053:PHE:CZ	2.43	0.53
2:C:522:VAL:HG21	9:C:9199:HOH:O	2.08	0.53
2:C:115:LEU:HD22	2:C:373:VAL:HG11	1.90	0.53
3:N:135:LEU:CD1	3:N:147:VAL:HG23	2.39	0.53
3:D:776:GLU:HB3	3:D:912:LYS:HE2	1.91	0.53
3:N:767:HIS:CE1	4:O:6:ILE:HG21	2.44	0.53
2:M:167:LYS:HD3	2:M:168:ARG:HD2	1.91	0.53
2:M:20:GLU:HA	9:M:1925:HOH:O	2.08	0.53
9:C:9471:HOH:O	3:D:681:ARG:HG2	2.09	0.53
2:C:945:ARG:HG2	2:C:946:ARG:N	2.24	0.53
2:M:148:PHE:CZ	2:M:309:TYR:HB3	2.44	0.53
2:C:1090:LYS:HE2	2:C:1112:PHE:CE1	2.38	0.53
5:P:397:ILE:O	5:P:401:GLU:HB3	2.09	0.53
5:P:401:GLU:O	5:P:405:LEU:HB2	2.09	0.53
3:N:47:GLU:OE1	3:N:53:ILE:HG22	2.08	0.53
3:D:178:LEU:HD11	9:D:2152:HOH:O	2.08	0.53
2:M:984:GLU:HG3	3:N:944:THR:O	2.09	0.53
2:M:861:LEU:HD21	2:M:925:TYR:CE2	2.44	0.53
2:C:839:LEU:HD21	2:C:849:VAL:HG22	1.90	0.53
3:D:1331:ASP:HB2	9:D:2058:HOH:O	2.08	0.53
3:N:1272:ALA:CA	3:N:1326:THR:HB	2.38	0.53
2:C:129:ILE:HD11	2:C:386:PHE:HD2	1.74	0.53
5:P:150:THR:HG23	9:P:752:HOH:O	2.09	0.53
3:N:135:LEU:HA	3:N:453:ASP:O	2.09	0.53
1:A:140:MET:SD	1:A:142:VAL:HG12	2.49	0.53
1:L:220:GLU:HB3	9:L:2385:HOH:O	2.07	0.53
3:N:101:HIS:ND1	3:N:103:TRP:HB2	2.24	0.53
5:F:420:ASP:O	5:F:422:LEU:HD23	2.09	0.53
2:C:535:SER:O	2:C:538:GLN:HG2	2.08	0.52
3:D:60:CYS:N	9:D:9193:HOH:O	2.42	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:183:GLU:HA	3:D:186:VAL:HG12	1.90	0.52
3:D:566:ILE:HG23	5:F:214:GLN:OE1	2.09	0.52
5:F:361:LEU:HD23	5:F:362:SER:N	2.23	0.52
3:D:970:LYS:O	3:D:974:ILE:HG13	2.08	0.52
2:M:431:HIS:HA	9:M:1910:HOH:O	2.09	0.52
3:D:631:ILE:HG12	3:D:743:ASP:O	2.09	0.52
1:B:143:ARG:HD2	1:B:158:ILE:HG21	1.91	0.52
2:C:413:LEU:HD12	2:C:413:LEU:N	2.23	0.52
1:A:178:ALA:HB2	2:C:864:GLY:H	1.75	0.52
1:B:191:ASP:O	1:B:192:LEU:HG	2.08	0.52
4:E:45:ARG:O	4:E:47:LYS:HE3	2.09	0.52
2:C:1008:ARG:HE	2:C:1028:GLY:C	2.12	0.52
3:N:591:VAL:CG1	3:N:597:ASP:HA	2.39	0.52
3:N:583:ASP:OD2	3:N:604:THR:HG21	2.08	0.52
1:L:67:THR:HG22	9:L:1762:HOH:O	2.08	0.52
1:L:79:ILE:HA	1:L:82:LEU:HD12	1.90	0.52
3:N:1312:LEU:HB3	9:N:9173:HOH:O	2.09	0.52
2:M:84:ARG:NH2	2:M:128:ILE:HG12	2.24	0.52
3:N:625:TYR:O	3:N:749:VAL:HG23	2.08	0.52
1:L:102:LYS:HD2	1:L:139:ASN:ND2	2.24	0.52
2:M:405:ARG:HH11	2:M:442:GLU:HG2	1.74	0.52
2:M:305:PRO:HA	2:M:308:ARG:HB2	1.92	0.52
2:C:264:PRO:HB2	9:C:9113:HOH:O	2.08	0.52
3:N:820:GLU:HB2	3:N:836:VAL:HG11	1.90	0.52
1:A:186:LEU:HB3	9:A:343:HOH:O	2.09	0.52
3:D:907:GLU:HA	9:D:9142:HOH:O	2.10	0.52
3:N:119:SER:N	3:N:123:LEU:HD13	2.24	0.52
1:B:110:LYS:HG2	9:B:464:HOH:O	2.09	0.52
2:M:109:LYS:HB2	9:M:2109:HOH:O	2.08	0.52
3:N:470:LEU:HG	3:N:508:ARG:NH2	2.25	0.52
2:C:146:VAL:HG13	2:C:161:SER:O	2.09	0.52
1:K:20:TYR:CD2	1:K:21:GLY:N	2.77	0.52
1:A:219:ARG:HH22	1:B:223:THR:CG2	2.22	0.52
3:N:533:GLY:HA3	5:P:309:LYS:HD2	1.90	0.52
3:N:1415:VAL:HG22	9:N:2024:HOH:O	2.09	0.52
1:L:102:LYS:HB2	1:L:139:ASN:OD1	2.09	0.52
1:A:115:LEU:HB2	9:A:400:HOH:O	2.10	0.52
2:C:739:GLU:HG3	9:C:9293:HOH:O	2.07	0.52
2:M:514:VAL:HG22	9:M:1440:HOH:O	2.09	0.52
5:F:413:SER:HA	5:F:416:ARG:CZ	2.38	0.52
2:M:207:LEU:HD22	2:M:221:LEU:HD22	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:679:PHE:C	3:D:943:THR:HG22	2.30	0.52
3:D:18:ILE:HD12	3:D:518:PRO:CG	2.39	0.52
5:F:321:ILE:HG22	5:F:322:GLY:N	2.24	0.52
3:N:28:LYS:O	3:N:43:GLY:HA2	2.10	0.52
2:M:174:LEU:HB3	2:M:193:LEU:HD21	1.92	0.52
2:C:135:VAL:O	2:C:392:SER:HA	2.10	0.52
2:C:339:LEU:HD22	2:C:391:LEU:HD22	1.91	0.52
3:D:659:LYS:HD3	3:D:659:LYS:O	2.09	0.52
2:M:939:ARG:HB3	2:M:982:PRO:HG3	1.91	0.52
2:M:455:LEU:HG	2:M:459:ALA:HB3	1.91	0.52
2:M:83:CYS:HA	2:M:88:LEU:HD23	1.91	0.52
5:P:322:GLY:HA3	9:P:573:HOH:O	2.09	0.52
3:N:1273:VAL:O	3:N:1325:LEU:HB2	2.10	0.52
2:C:599:GLU:HG2	9:C:9491:HOH:O	2.10	0.52
1:L:75:VAL:HA	1:L:78:ILE:HD12	1.92	0.52
2:M:654:LEU:HD12	2:M:657:ASP:OD2	2.09	0.52
2:C:447:ALA:HB2	9:D:2205:HOH:O	2.10	0.52
2:C:683:ASN:HA	2:C:687:ALA:HB3	1.91	0.52
3:N:553:ARG:HD3	5:P:214:GLN:HB3	1.91	0.52
1:B:38:ASN:OD1	2:C:979:THR:HA	2.09	0.52
3:D:603:LEU:HA	3:D:606:ILE:HG13	1.90	0.52
3:D:62:LYS:HD3	9:D:2486:HOH:O	2.08	0.52
2:C:101:ILE:HG22	2:C:102:HIS:N	2.24	0.52
3:N:40:GLU:HG3	3:N:41:ARG:N	2.25	0.52
4:O:48:MET:HB2	4:O:54:LEU:CD1	2.39	0.52
2:M:625:LEU:HB3	2:M:639:GLN:HG3	1.90	0.52
2:M:966:LEU:HD21	2:M:986:PRO:CG	2.39	0.52
2:C:244:PRO:CD	2:C:245:GLY:H	2.21	0.52
5:F:220:LEU:O	5:F:224:VAL:HG23	2.08	0.52
3:D:36:THR:C	3:D:38:LYS:H	2.13	0.52
1:A:57:TYR:CE2	1:A:161:ARG:HD2	2.45	0.52
2:C:387:SER:OG	2:C:388:ARG:HD3	2.09	0.52
3:D:1124:GLN:HG2	9:D:2004:HOH:O	2.09	0.52
2:M:35:PRO:HD2	2:M:38:LYS:HG2	1.92	0.52
2:C:640:ARG:HG3	9:C:9864:HOH:O	2.10	0.52
3:N:1087:ARG:HA	3:N:1090:ASP:HB2	1.92	0.52
4:O:72:ARG:HA	9:O:4488:HOH:O	2.09	0.52
2:C:292:ARG:HD2	2:C:299:LYS:CE	2.38	0.52
2:C:292:ARG:HD2	2:C:299:LYS:HE2	1.90	0.52
1:A:156:HIS:CD2	1:A:158:ILE:HG12	2.45	0.52
2:C:165:LEU:HD12	2:C:166:PRO:HA	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:946:ARG:NH2	3:N:859:ASP:HB3	2.25	0.52
3:N:669:ASN:O	3:N:672:ALA:HB3	2.09	0.52
2:C:473:ARG:HH11	2:C:475:VAL:CG2	2.23	0.52
2:C:5:ARG:HB2	9:C:9522:HOH:O	2.09	0.52
2:M:502:PRO:HB2	2:M:509:ALA:HB3	1.90	0.52
2:M:424:GLY:O	2:M:427:VAL:HG23	2.09	0.52
2:M:1072:LYS:HB2	9:M:2094:HOH:O	2.10	0.52
5:F:175:HIS:O	5:F:179:GLU:HG2	2.09	0.52
5:F:186:HIS:HB3	9:F:444:HOH:O	2.08	0.52
3:D:435:VAL:HG22	3:D:446:VAL:HG13	1.92	0.52
3:N:185:VAL:CG1	3:N:191:LEU:HD21	2.40	0.52
3:N:422:ALA:H	3:N:427:VAL:CG1	2.18	0.52
3:D:521:PRO:C	3:D:525:ARG:HH11	2.13	0.52
2:C:274:ARG:CD	2:C:285:LEU:HD22	2.40	0.52
2:M:759:THR:HA	2:M:786:LYS:O	2.09	0.52
3:N:49:ILE:HB	3:N:50:PHE:CE1	2.45	0.52
2:C:949:LYS:HD3	3:D:828:LYS:HE3	1.90	0.52
5:F:291:ILE:O	5:F:295:MET:HB2	2.09	0.52
3:D:1129:THR:HG23	3:D:1130:ARG:N	2.20	0.52
2:C:452:ILE:HG13	9:C:9147:HOH:O	2.09	0.52
5:F:142:ARG:HD2	9:F:540:HOH:O	2.09	0.52
3:N:1101:VAL:HG11	3:N:1424:VAL:HG22	1.90	0.52
3:D:159:ARG:HB2	3:D:159:ARG:CZ	2.39	0.52
3:D:1267:ARG:HB2	3:D:1267:ARG:HH11	1.74	0.52
1:A:71:VAL:HG22	9:A:468:HOH:O	2.09	0.52
2:M:723:THR:CG2	2:M:725:ASP:HB2	2.40	0.52
2:M:603:VAL:HG21	2:M:643:VAL:CG1	2.39	0.52
1:L:74:ASP:OD2	1:L:76:VAL:HG23	2.10	0.52
3:D:1503:VAL:HG21	9:D:2589:HOH:O	2.08	0.52
2:M:53:PRO:HD3	9:M:1140:HOH:O	2.10	0.52
3:D:669:ASN:O	3:D:672:ALA:HB3	2.09	0.52
5:P:119:ILE:HD11	9:P:794:HOH:O	2.09	0.52
1:K:186:LEU:HB2	1:K:192:LEU:CD1	2.34	0.52
2:M:721:ARG:O	2:M:758:ARG:HA	2.10	0.52
2:C:464:LEU:HD12	2:C:465:GLY:H	1.74	0.52
3:D:455:ARG:HG2	9:D:2383:HOH:O	2.09	0.52
3:D:564:GLU:OE1	3:D:567:ILE:HD12	2.08	0.52
2:C:630:ARG:HH22	2:C:707:ARG:CB	2.23	0.52
3:D:1209:LEU:HD21	4:E:16:LYS:HZ3	1.70	0.52
5:F:366:ALA:HB3	5:F:367:MET:CE	2.39	0.52
2:C:625:LEU:CD1	2:C:641:PRO:HG3	2.40	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:140:ILE:HD11	9:M:1329:HOH:O	2.09	0.52
3:N:129:PHE:C	3:N:568:ARG:HH21	2.12	0.52
3:N:679:ARG:NH2	3:N:681:ARG:HE	2.07	0.52
3:D:728:LEU:HD22	3:D:745:MET:SD	2.49	0.52
3:D:1333:HIS:O	3:D:1336:LEU:HB3	2.10	0.52
1:B:101:LEU:HG	1:B:114:PHE:HA	1.91	0.52
3:D:502:PHE:HZ	3:D:512:MET:HE2	1.75	0.52
3:D:686:GLU:HA	9:D:9222:HOH:O	2.09	0.52
2:M:352:ALA:HA	2:M:355:VAL:HG12	1.91	0.52
3:D:814:ALA:O	3:D:818:ARG:HG3	2.10	0.52
3:N:964:LEU:CD1	3:N:1058:ARG:HD2	2.39	0.52
5:P:171:LYS:HE3	5:P:175:HIS:CE1	2.45	0.52
3:D:939:PHE:O	3:D:943:THR:HG23	2.10	0.52
3:D:12:LEU:HB2	9:D:9480:HOH:O	2.09	0.52
3:D:81:THR:HG22	3:D:82:LYS:H	1.75	0.52
3:D:97:THR:HB	9:D:9846:HOH:O	2.09	0.52
3:D:141:ILE:CD1	3:D:450:TYR:HB2	2.32	0.52
2:C:418:LEU:N	2:C:418:LEU:HD12	2.24	0.52
2:C:516:ARG:NE	3:D:1068:LEU:HD13	2.24	0.52
4:O:54:LEU:HA	4:O:58:PRO:HG2	1.91	0.52
3:N:105:VAL:HG13	3:N:124:GLU:OE1	2.08	0.52
3:D:556:LYS:HE2	9:F:624:HOH:O	2.08	0.52
3:N:1344:VAL:HG11	3:N:1421:LEU:HD22	1.91	0.52
3:D:212:ARG:HD3	3:D:445:ARG:NH1	2.24	0.52
2:M:1017:THR:HG1	2:M:1019:GLN:HG2	1.75	0.52
1:L:206:THR:HG22	1:L:209:GLU:H	1.75	0.52
3:D:1000:THR:O	3:D:1003:VAL:HG22	2.10	0.52
3:D:1330:ILE:HG21	3:D:1335:LEU:HD12	1.91	0.52
3:D:647:ARG:HD3	3:D:647:ARG:O	2.10	0.52
3:N:964:LEU:HD11	3:N:1058:ARG:HD2	1.91	0.52
5:P:167:PRO:HB2	5:P:169:GLU:OE2	2.10	0.52
1:L:227:ASN:HB3	9:L:4722:HOH:O	2.08	0.52
2:M:776:SER:HA	2:M:780:GLU:HB3	1.92	0.52
1:K:170:VAL:HG11	9:K:2028:HOH:O	2.09	0.52
1:B:131:THR:HG21	9:B:512:HOH:O	2.10	0.52
2:C:220:GLY:HA3	9:C:9124:HOH:O	2.10	0.52
3:N:412:GLY:O	3:N:421:LEU:HB3	2.10	0.52
2:C:1091:GLU:O	2:C:1094:ALA:HB3	2.09	0.52
2:C:135:VAL:HG13	9:C:9933:HOH:O	2.09	0.52
2:M:544:THR:O	2:M:547:ILE:HG13	2.10	0.52
3:D:1068:LEU:HD22	3:D:1072:ILE:HG12	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:139:GLN:NE2	2:M:334:ARG:HH11	2.08	0.52
2:C:1042:ALA:CB	3:D:710:ARG:HB3	2.37	0.52
3:N:1112:CYS:HA	9:N:9516:HOH:O	2.10	0.52
3:N:470:LEU:HB2	3:N:503:LEU:HD11	1.92	0.52
3:D:156:GLU:CD	3:D:156:GLU:H	2.13	0.52
3:N:1243:THR:HG22	3:N:1244:GLY:H	1.73	0.52
1:K:57:TYR:HE2	1:K:59:GLU:HG2	1.74	0.52
5:P:129:GLU:HB3	5:P:142:ARG:HH21	1.75	0.52
2:M:841:ASN:HD21	2:M:845:ASN:N	2.06	0.52
3:N:1059:SER:HB3	9:N:9228:HOH:O	2.08	0.52
5:P:104:ARG:O	5:P:108:GLU:HG2	2.10	0.52
2:C:49:ARG:HD3	9:C:9193:HOH:O	2.10	0.52
4:E:87:LYS:HE3	9:E:143:HOH:O	2.08	0.52
5:P:261:PRO:HA	9:P:507:HOH:O	2.10	0.52
2:M:881:ASN:H	2:M:881:ASN:HD22	1.57	0.52
3:D:1356:TYR:CD2	3:D:1363:LEU:HD23	2.45	0.52
4:E:17:TYR:HD2	4:E:17:TYR:N	2.08	0.52
5:F:253:ASP:HA	5:F:259:ARG:NH1	2.23	0.52
3:N:965:GLU:O	3:N:968:ASP:HB2	2.10	0.52
3:N:1152:GLU:HG2	3:N:1160:LEU:O	2.10	0.52
2:C:40:GLU:HA	9:C:9794:HOH:O	2.09	0.52
1:A:111:ALA:HB2	1:A:127:LEU:HG	1.91	0.52
1:L:109:VAL:HG23	9:L:2421:HOH:O	2.09	0.52
3:N:434:ARG:HB2	3:N:447:VAL:HG22	1.91	0.52
1:A:63:HIS:HB3	2:C:746:GLY:CA	2.31	0.52
3:D:827:ILE:O	3:D:837:GLY:HA3	2.10	0.52
3:D:793:THR:HB	3:D:879:ARG:HD3	1.91	0.52
3:N:474:GLU:O	3:N:478:LEU:HG	2.10	0.52
5:P:344:ALA:HB3	9:P:447:HOH:O	2.09	0.52
3:D:704:ARG:CD	3:D:705:ALA:H	2.23	0.52
4:E:61:GLU:O	4:E:65:MET:HG3	2.10	0.52
1:B:52:ALA:HB2	1:B:170:VAL:O	2.10	0.52
1:A:69:PRO:O	1:A:71:VAL:HG23	2.10	0.52
3:N:1396:GLU:O	3:N:1400:VAL:HG23	2.10	0.52
3:D:720:LEU:H	3:D:720:LEU:HD12	1.73	0.52
2:C:97:ARG:HD2	9:C:2261:HOH:O	2.10	0.52
5:P:261:PRO:O	5:P:265:VAL:HG23	2.09	0.52
3:D:916:TYR:HE2	3:D:920:LEU:HD13	1.74	0.52
3:N:1410:GLU:HA	9:N:9270:HOH:O	2.10	0.52
8:N:9002:TGT:H3	9:N:9224:HOH:O	2.10	0.52
3:N:550:ARG:CD	3:N:573:MET:HB3	2.41	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:493:ARG:HD3	3:D:493:ARG:O	2.09	0.52
2:M:762:LYS:HD3	2:M:771:GLU:OE2	2.10	0.52
2:M:333:ILE:HG12	2:M:467:ILE:HD11	1.92	0.52
2:M:274:ARG:CD	2:M:285:LEU:HD22	2.38	0.52
3:N:1314:LYS:NZ	3:N:1317:ASP:HB2	2.25	0.52
3:N:1242:HIS:HB2	9:N:9670:HOH:O	2.10	0.52
3:N:1147:ARG:HD2	9:N:9121:HOH:O	2.10	0.52
3:N:1149:LEU:HD22	9:N:9329:HOH:O	2.10	0.52
2:C:601:GLY:O	2:C:648:ARG:HA	2.10	0.52
1:K:150:TYR:HE1	2:M:696:LYS:HA	1.74	0.52
3:D:729:HIS:CE1	3:D:731:LEU:H	2.28	0.52
2:C:267:TYR:HB2	2:C:272:ALA:HB1	1.92	0.52
2:M:278:GLU:HB2	9:M:2032:HOH:O	2.10	0.52
1:A:101:LEU:HG	1:A:114:PHE:HA	1.91	0.52
3:D:1441:GLN:HE21	3:D:1442:ASN:HB2	1.73	0.52
3:D:576:GLU:HA	3:D:579:ASP:OD2	2.10	0.52
2:M:3:ILE:CD1	2:M:900:ARG:HB2	2.40	0.52
3:N:126:VAL:HG12	3:N:132:TYR:HB2	1.92	0.52
2:M:213:ALA:HB3	9:M:1191:HOH:O	2.11	0.52
1:L:46:SER:O	1:L:148:VAL:HB	2.10	0.52
5:P:132:ARG:HD3	5:P:181:GLU:OE1	2.11	0.51
9:N:9476:HOH:O	5:P:87:GLU:HA	2.11	0.51
2:C:274:ARG:HG3	2:C:285:LEU:HD22	1.92	0.51
3:D:192:ALA:O	3:D:195:VAL:HG23	2.09	0.51
3:D:390:PRO:HD3	9:D:9423:HOH:O	2.10	0.51
3:D:561:GLY:HA3	5:F:184:ARG:NH2	2.24	0.51
2:M:172:ILE:HD12	2:M:172:ILE:H	1.76	0.51
2:C:580:MET:HB3	2:C:584:GLU:OE2	2.10	0.51
2:M:905:ILE:HD12	2:M:905:ILE:H	1.75	0.51
3:N:1111:ASP:HB2	3:N:1203:LYS:CD	2.39	0.51
3:N:10:ILE:HG13	3:N:1434:TRP:CZ2	2.45	0.51
2:M:1099:VAL:HG23	9:M:1567:HOH:O	2.10	0.51
3:N:36:THR:C	3:N:38:LYS:H	2.13	0.51
3:N:1304:LYS:HB3	9:N:9576:HOH:O	2.09	0.51
3:D:1033:GLN:HE21	3:D:1036:ARG:NH1	2.08	0.51
2:M:816:LYS:HA	9:M:1688:HOH:O	2.10	0.51
5:F:74:LYS:HD3	9:F:802:HOH:O	2.09	0.51
5:P:123:ASP:HB3	5:P:125:ASP:OD1	2.10	0.51
2:C:1101:THR:HB	3:D:5:VAL:HG13	1.92	0.51
5:F:347:GLN:O	5:F:351:SER:HB2	2.10	0.51
2:C:73:LEU:O	2:C:73:LEU:HD12	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:202:VAL:O	3:N:204:LEU:HG	2.11	0.51
3:D:20:SER:HB3	9:D:9745:HOH:O	2.10	0.51
2:C:285:LEU:HD23	2:C:285:LEU:O	2.10	0.51
2:C:332:ARG:HA	2:C:465:GLY:O	2.10	0.51
3:N:478:LEU:HD21	3:N:500:ARG:NH2	2.23	0.51
2:M:406:HIS:HB3	9:M:1664:HOH:O	2.11	0.51
2:M:326:ASP:HB2	2:M:431:HIS:CE1	2.46	0.51
3:D:1491:THR:HG23	9:E:141:HOH:O	2.09	0.51
3:N:1311:LEU:HD12	3:N:1313:VAL:O	2.09	0.51
2:C:405:ARG:HD3	2:C:543:ASN:OD1	2.10	0.51
3:N:1425:THR:HG23	3:N:1426:LYS:N	2.25	0.51
2:C:25:SER:OG	2:C:337:GLY:N	2.42	0.51
4:O:84:ARG:HB2	4:O:84:ARG:NH1	2.26	0.51
3:N:864:VAL:HG22	3:N:877:PRO:HD3	1.92	0.51
2:C:172:ILE:HA	2:C:185:LYS:O	2.09	0.51
3:D:212:ARG:HD3	3:D:445:ARG:HH12	1.74	0.51
3:D:783:ARG:HH21	8:D:9001:TGT:C2	2.23	0.51
3:D:1241:PHE:HD2	3:D:1260:ILE:HG21	1.75	0.51
2:M:1000:MET:O	2:M:1003:ASP:HB3	2.10	0.51
3:D:1106:VAL:O	3:D:1108:ARG:HG2	2.10	0.51
3:D:616:GLN:HB2	9:D:2053:HOH:O	2.11	0.51
1:L:132:LEU:HG	1:L:136:GLY:HA3	1.92	0.51
3:D:369:ALA:HB2	9:D:2012:HOH:O	2.10	0.51
1:L:13:VAL:HG13	1:L:23:PHE:CD1	2.45	0.51
1:B:100:LEU:HB2	1:B:115:LEU:CD2	2.40	0.51
3:N:154:THR:HG23	3:N:157:GLU:H	1.74	0.51
3:N:191:LEU:HD12	3:N:211:VAL:HG21	1.93	0.51
3:N:50:PHE:O	3:N:89:ARG:HD2	2.11	0.51
2:C:670:GLN:O	2:C:672:VAL:HG12	2.10	0.51
4:O:48:MET:HB2	4:O:54:LEU:HD12	1.92	0.51
2:C:902:ILE:O	2:C:904:PRO:HD3	2.10	0.51
1:L:176:ARG:CZ	3:N:884:ARG:NH1	2.71	0.51
3:D:1109:GLU:CG	3:D:1202:GLN:H	2.24	0.51
3:N:1118:ILE:HG23	3:N:1346:ARG:HH12	1.74	0.51
5:P:82:ARG:HG2	5:P:86:HIS:CD2	2.44	0.51
3:D:647:ARG:HD2	9:D:9788:HOH:O	2.10	0.51
1:A:80:LEU:HA	1:A:83:LYS:HD2	1.91	0.51
3:D:1249:ALA:HB3	9:D:9801:HOH:O	2.10	0.51
2:M:103:LYS:NZ	2:M:103:LYS:HA	2.24	0.51
1:L:133:GLU:HB3	9:L:3618:HOH:O	2.09	0.51
3:N:1278:ASP:HA	3:N:1319:VAL:O	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:758:GLU:HB3	4:O:20:THR:HG21	1.93	0.51
3:D:816:HIS:HA	9:D:9279:HOH:O	2.10	0.51
3:D:432:TYR:HB3	3:D:448:GLU:HA	1.91	0.51
2:M:614:ARG:HD3	9:M:2050:HOH:O	2.10	0.51
2:M:28:ARG:HG3	2:M:40:GLU:OE1	2.11	0.51
2:C:459:ALA:HA	9:C:2046:HOH:O	2.09	0.51
2:M:211:LEU:HG	2:M:308:ARG:HG3	1.91	0.51
2:C:630:ARG:HE	2:C:705:ILE:CG2	2.23	0.51
4:O:25:LYS:HG3	9:O:1782:HOH:O	2.10	0.51
3:N:558:LEU:HD13	5:P:145:PRO:CB	2.35	0.51
2:C:670:GLN:HE22	2:C:699:PHE:CB	2.24	0.51
2:C:136:ILE:CD1	2:C:392:SER:HB2	2.41	0.51
2:M:549:PHE:HE1	2:M:909:ALA:HB3	1.75	0.51
2:C:539:VAL:HG21	3:D:1067:VAL:CG1	2.40	0.51
4:O:54:LEU:HG	4:O:58:PRO:HD2	1.91	0.51
2:M:611:ILE:HD13	2:M:625:LEU:HD11	1.92	0.51
3:N:1462:LEU:HD22	3:N:1473:PRO:HD2	1.92	0.51
1:A:9:PRO:HB3	1:A:25:LEU:HG	1.92	0.51
2:C:380:ALA:HA	2:C:383:ARG:CD	2.40	0.51
3:N:1281:VAL:HG23	3:N:1317:ASP:O	2.10	0.51
3:N:1495:ILE:HG23	9:N:9235:HOH:O	2.09	0.51
5:F:399:GLN:O	5:F:403:LYS:HB2	2.11	0.51
3:D:833:GLU:HG2	9:D:9511:HOH:O	2.10	0.51
2:C:841:ASN:HD21	2:C:845:ASN:N	2.07	0.51
3:D:1403:LEU:O	3:D:1407:LEU:HB2	2.10	0.51
2:C:551:GLU:OE1	2:C:906:PHE:HA	2.10	0.51
3:N:584:ASN:ND2	3:N:590:PRO:HD2	2.25	0.51
1:L:136:GLY:HA3	9:L:4499:HOH:O	2.10	0.51
2:M:201:GLY:HA2	9:M:2103:HOH:O	2.09	0.51
5:F:357:ALA:HA	9:F:583:HOH:O	2.10	0.51
2:M:1074:GLU:HA	9:M:1982:HOH:O	2.09	0.51
2:M:9:ILE:HG12	2:M:907:ASP:OD2	2.10	0.51
2:C:379:GLU:HG3	9:C:9405:HOH:O	2.11	0.51
2:M:732:ALA:HA	2:M:735:ARG:CZ	2.41	0.51
3:D:526:PRO:O	3:D:537:THR:HA	2.11	0.51
2:C:737:LEU:HD22	2:C:741:GLY:O	2.10	0.51
2:M:1096:ALA:C	3:N:13:ALA:HB2	2.30	0.51
2:C:333:ILE:HD12	2:C:333:ILE:N	2.25	0.51
2:C:504:GLU:HG3	9:C:9043:HOH:O	2.10	0.51
1:A:184:THR:HB	1:A:194:LYS:CE	2.40	0.51
3:N:53:ILE:HG23	3:N:54:LYS:N	2.24	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:313:LEU:HD13	2:M:321:GLU:CB	2.40	0.51
1:L:98:THR:HG22	9:L:3535:HOH:O	2.11	0.51
2:M:537:LYS:HD2	9:M:1233:HOH:O	2.10	0.51
2:M:136:ILE:HG21	2:M:336:VAL:HG13	1.92	0.51
2:C:1007:ALA:HB2	3:D:648:MET:HG3	1.91	0.51
1:L:30:ARG:NH2	2:M:854:PRO:HG3	2.26	0.51
2:C:943:VAL:HG11	2:C:973:VAL:HG22	1.93	0.51
3:N:684:LYS:HE2	3:N:686:GLU:OE1	2.10	0.51
2:C:1106:ASP:HA	9:C:9127:HOH:O	2.11	0.51
2:C:172:ILE:HD12	2:C:172:ILE:N	2.24	0.51
2:C:183:SER:HB2	2:C:190:LYS:CD	2.41	0.51
4:O:35:PHE:HZ	4:O:60:ALA:HA	1.75	0.51
1:L:206:THR:CG2	1:L:209:GLU:H	2.24	0.51
3:N:1282:ARG:HD3	3:N:1295:GLU:OE2	2.11	0.51
3:D:996:TRP:CE2	3:D:1056:PRO:HG2	2.45	0.51
2:M:209:ARG:HB3	9:M:1448:HOH:O	2.10	0.51
2:M:732:ALA:HA	2:M:735:ARG:NH1	2.26	0.51
5:F:392:VAL:HG13	9:F:551:HOH:O	2.11	0.51
3:D:243:ALA:HB2	9:D:2459:HOH:O	2.10	0.51
3:N:209:ARG:NH1	3:N:397:LYS:HB2	2.25	0.51
3:N:191:LEU:HD13	3:N:195:VAL:HG11	1.93	0.51
2:C:874:LEU:CD2	3:D:787:LEU:HD22	2.29	0.51
3:D:23:TYR:CE1	3:D:89:ARG:HG2	2.45	0.51
3:D:52:PRO:CG	3:D:78:VAL:HG13	2.41	0.51
3:N:44:LEU:HG	9:N:9296:HOH:O	2.10	0.51
1:K:33:GLY:O	1:K:195:LEU:HD22	2.11	0.51
3:N:698:LYS:HB2	9:N:9171:HOH:O	2.11	0.51
3:D:800:LYS:HD3	3:D:804:LEU:HD22	1.92	0.51
5:F:363:GLU:HA	5:F:367:MET:HG2	1.92	0.51
2:C:244:PRO:HB3	9:C:9170:HOH:O	2.09	0.51
3:N:853:VAL:HG22	3:N:858:VAL:O	2.10	0.51
2:C:413:LEU:H	2:C:413:LEU:CD1	2.17	0.51
3:D:1173:LEU:HA	9:D:9787:HOH:O	2.11	0.51
3:D:486:ARG:HD2	9:D:2277:HOH:O	2.11	0.51
2:C:948:GLU:OE1	2:C:955:PRO:HA	2.11	0.51
2:C:183:SER:HB2	2:C:190:LYS:HG2	1.92	0.51
2:C:113:VAL:O	2:C:115:LEU:HD23	2.11	0.51
2:C:373:VAL:HG12	9:C:2035:HOH:O	2.09	0.51
3:N:7:LYS:HE2	3:N:1458:GLU:OE2	2.10	0.51
3:N:1312:LEU:HD22	9:N:2318:HOH:O	2.10	0.51
2:C:913:GLU:HG3	9:C:9202:HOH:O	2.09	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:280:GLN:HB2	9:F:788:HOH:O	2.09	0.51
5:F:100:VAL:HG21	9:F:458:HOH:O	2.11	0.51
3:D:435:VAL:HG21	9:D:9430:HOH:O	2.10	0.51
3:N:566:ILE:HD13	5:P:217:ASN:HB3	1.93	0.51
2:C:212:GLY:HA2	9:C:9735:HOH:O	2.10	0.51
3:D:171:LEU:HD21	9:D:2706:HOH:O	2.10	0.51
3:D:564:GLU:HG2	9:F:453:HOH:O	2.11	0.51
2:C:579:VAL:HB	2:C:890:LEU:CD2	2.40	0.51
1:B:97:VAL:HG13	9:B:385:HOH:O	2.11	0.51
2:M:874:LEU:HD12	3:N:784:ASP:OD2	2.11	0.51
3:N:1020:LEU:HD21	3:N:1038:LEU:HD12	1.92	0.51
2:M:1015:LEU:HD13	3:N:528:VAL:HG11	1.92	0.51
2:M:625:LEU:HD13	2:M:639:GLN:O	2.11	0.51
2:C:1018:GLN:HB2	2:C:1058:ASP:OD2	2.10	0.51
2:C:159:ILE:HB	9:C:9134:HOH:O	2.09	0.51
2:C:174:LEU:CD2	2:C:184:MET:HG3	2.41	0.51
3:D:149:LYS:HE2	9:D:2101:HOH:O	2.11	0.51
3:D:633:VAL:O	3:D:635:PRO:HD3	2.09	0.51
1:B:132:LEU:HG	9:B:508:HOH:O	2.10	0.51
3:D:853:VAL:HG22	3:D:858:VAL:HG23	1.93	0.51
3:N:672:ALA:HB2	5:P:420:ASP:CG	2.30	0.51
5:P:152:ASP:HB2	5:P:153:PRO:HD3	1.93	0.51
1:B:18:ARG:O	1:B:207:PRO:HD3	2.10	0.51
3:N:1102:THR:HG22	3:N:1222:GLY:HA2	1.93	0.51
1:K:1:MET:SD	1:K:5:LYS:HB3	2.50	0.51
2:M:183:SER:HB3	2:M:190:LYS:HD3	1.92	0.51
2:M:810:ASP:HB3	2:M:813:VAL:CG2	2.41	0.51
3:D:116:LEU:CD2	3:D:468:LEU:HD11	2.41	0.51
2:C:971:LYS:HB3	2:C:987:ILE:C	2.31	0.51
3:D:28:LYS:O	3:D:43:GLY:HA2	2.10	0.51
3:D:1425:THR:HG23	3:D:1426:LYS:N	2.25	0.51
2:C:724:ARG:CD	2:C:740:GLU:HA	2.40	0.51
2:C:194:VAL:HG21	2:C:221:LEU:HA	1.93	0.51
2:C:705:ILE:HA	2:C:827:VAL:O	2.11	0.51
2:M:162:ILE:HD12	2:M:172:ILE:HB	1.92	0.51
5:P:366:ALA:HB3	5:P:367:MET:CE	2.41	0.51
3:N:1379:VAL:HA	3:N:1420:LEU:HB3	1.93	0.51
3:D:1065:LEU:HD11	3:D:1070:TYR:N	2.26	0.51
3:D:1065:LEU:HD11	3:D:1070:TYR:CA	2.41	0.51
3:N:153:LEU:HD11	3:N:158:TYR:CA	2.40	0.51
2:M:435:TYR:C	2:M:437:ARG:H	2.13	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:213:GLN:O	1:K:217:ILE:HG13	2.11	0.51
2:M:807:ARG:NH2	2:M:809:GLY:H	2.08	0.51
2:M:167:LYS:HD3	2:M:168:ARG:N	2.26	0.51
2:C:743:VAL:CG1	2:C:800:VAL:HG21	2.41	0.51
1:L:183:ASP:HB3	9:L:3332:HOH:O	2.11	0.51
3:D:857:ILE:HG13	9:D:9158:HOH:O	2.11	0.51
2:C:426:ASP:HA	9:C:9778:HOH:O	2.11	0.51
3:N:603:LEU:O	3:N:606:ILE:HB	2.10	0.51
2:C:374:ASN:HB2	9:C:9454:HOH:O	2.11	0.51
2:C:260:LEU:HD12	2:C:291:ALA:HB1	1.93	0.51
2:M:182:VAL:HG22	9:M:1138:HOH:O	2.10	0.51
1:L:29:GLU:N	9:L:1714:HOH:O	2.43	0.51
2:C:666:LEU:CD2	2:C:668:LEU:HD11	2.41	0.51
3:D:658:LEU:HB3	9:D:9268:HOH:O	2.10	0.51
1:B:112:ARG:HH11	1:B:112:ARG:HB3	1.75	0.51
3:D:135:LEU:HA	3:D:453:ASP:O	2.11	0.51
5:F:407:LYS:HA	9:F:678:HOH:O	2.10	0.51
2:C:615:TYR:HB3	9:C:9476:HOH:O	2.09	0.51
4:E:48:MET:CB	4:E:54:LEU:HB2	2.41	0.51
3:D:1254:GLN:HB2	9:D:9660:HOH:O	2.11	0.51
3:N:1288:GLU:HB3	9:N:9820:HOH:O	2.10	0.51
2:C:292:ARG:HG3	9:C:2047:HOH:O	2.09	0.51
1:B:123:MET:C	1:B:125:PRO:HD3	2.31	0.51
1:K:18:ARG:O	1:K:207:PRO:HD3	2.11	0.51
2:C:735:ARG:HH11	2:C:735:ARG:HG2	1.76	0.51
5:P:128:ARG:NH1	5:P:128:ARG:HB2	2.25	0.51
2:C:744:ARG:HG3	2:C:747:ALA:HB2	1.92	0.51
3:N:971:LEU:HG	3:N:975:GLU:OE1	2.10	0.51
3:N:998:GLU:HG2	9:N:9198:HOH:O	2.11	0.51
3:N:443:VAL:HG11	3:N:445:ARG:NH2	2.26	0.51
3:D:18:ILE:HD12	3:D:518:PRO:HG3	1.93	0.51
3:D:186:VAL:HG23	3:D:211:VAL:CG1	2.41	0.51
3:N:77:GLY:O	3:N:78:VAL:HG23	2.11	0.51
3:D:1481:VAL:HG11	4:E:18:ARG:CA	2.37	0.51
2:C:690:ILE:CG2	2:C:852:ILE:HG13	2.41	0.51
2:C:95:TYR:HE2	9:C:9064:HOH:O	1.94	0.51
3:D:628:ARG:HH11	3:D:744:GLN:NE2	2.09	0.51
3:N:1464:GLU:HG2	3:N:1465:ASN:N	2.25	0.51
3:N:661:MET:HA	3:N:666:ILE:CD1	2.40	0.51
3:N:1258:ARG:HE	3:N:1351:GLU:CD	2.14	0.51
3:N:1372:VAL:O	3:N:1375:MET:HB2	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1280:VAL:HG23	3:D:1295:GLU:O	2.11	0.51
1:A:138:LEU:HG	9:A:422:HOH:O	2.11	0.51
2:M:305:PRO:HA	2:M:308:ARG:HE	1.75	0.50
3:N:564:GLU:HB2	9:N:2251:HOH:O	2.11	0.50
3:N:573:MET:SD	5:P:210:LEU:HD13	2.50	0.50
3:N:829:VAL:HG23	9:N:9623:HOH:O	2.12	0.50
4:E:10:PHE:CE2	4:E:16:LYS:HG3	2.45	0.50
2:C:334:ARG:HD2	2:C:418:LEU:HD21	1.93	0.50
3:N:469:ASP:OD1	3:N:471:GLU:HB2	2.11	0.50
3:N:119:SER:HB3	3:N:123:LEU:N	2.23	0.50
1:L:42:ARG:HG2	1:L:42:ARG:HH11	1.76	0.50
3:N:1210:SER:HA	9:N:2195:HOH:O	2.11	0.50
2:M:78:PHE:CG	2:M:88:LEU:HD21	2.46	0.50
3:D:165:LYS:CB	3:D:395:VAL:HG11	2.41	0.50
3:N:210:ARG:NH1	3:N:398:ALA:HB3	2.24	0.50
5:P:247:ILE:O	5:P:251:ILE:HG13	2.10	0.50
3:D:703:ASN:HD21	3:D:707:THR:HG23	1.77	0.50
5:F:154:LYS:HB2	9:F:473:HOH:O	2.11	0.50
2:C:536:PRO:HB2	2:C:905:ILE:HD13	1.93	0.50
1:K:198:ARG:C	1:K:199:ILE:HD12	2.32	0.50
5:P:105:LYS:NZ	5:P:179:GLU:HB3	2.26	0.50
3:D:45:PHE:HD1	9:D:2217:HOH:O	1.93	0.50
3:D:748:HIS:HB2	9:D:9229:HOH:O	2.11	0.50
3:N:1151:ARG:HA	3:N:1162:GLU:HG3	1.93	0.50
2:M:24:GLU:HG2	9:M:1557:HOH:O	2.10	0.50
3:N:1442:ASN:N	9:N:9134:HOH:O	2.43	0.50
2:M:916:GLU:HA	9:M:1993:HOH:O	2.11	0.50
3:D:396:VAL:HG13	3:D:446:VAL:O	2.12	0.50
2:M:207:LEU:HD13	2:M:221:LEU:CD1	2.42	0.50
1:K:36:LEU:O	1:K:40:LEU:HG	2.11	0.50
5:F:196:VAL:HG13	5:F:213:ILE:HD11	1.93	0.50
3:D:558:LEU:HB3	9:F:838:HOH:O	2.11	0.50
5:F:141:VAL:O	5:F:145:PRO:HD2	2.11	0.50
3:D:1211:MET:SD	3:D:1213:ARG:HD2	2.50	0.50
2:C:1067:TYR:CE2	2:C:1071:ILE:HD11	2.46	0.50
1:B:23:PHE:HE2	1:B:199:ILE:HD12	1.75	0.50
2:C:442:GLU:HG3	9:C:9216:HOH:O	2.11	0.50
3:N:118:LEU:HB2	9:N:9131:HOH:O	2.11	0.50
3:D:155:ASP:HB3	3:D:159:ARG:HH22	1.76	0.50
3:N:169:TYR:N	3:N:170:PRO:CD	2.74	0.50
2:C:893:ALA:O	2:C:897:LEU:HB2	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:254:VAL:HG13	2:M:258:TYR:HE1	1.74	0.50
1:L:82:LEU:O	1:L:85:LEU:HB3	2.11	0.50
1:K:5:LYS:O	1:K:8:ALA:HB2	2.11	0.50
5:P:249:ARG:HG3	5:P:253:ASP:OD1	2.10	0.50
3:N:891:GLU:HB2	9:N:9885:HOH:O	2.11	0.50
4:O:94:PRO:HA	9:O:4330:HOH:O	2.10	0.50
5:P:415:THR:HB	9:P:538:HOH:O	2.10	0.50
2:C:1094:ALA:HB1	3:D:603:LEU:HD22	1.92	0.50
5:F:94:LEU:HD22	5:F:97:GLU:HG2	1.93	0.50
3:N:817:GLU:CD	3:N:839:LEU:HD22	2.32	0.50
2:C:569:VAL:O	2:C:571:LEU:HD12	2.12	0.50
2:C:199:VAL:HG22	9:C:9445:HOH:O	2.12	0.50
3:N:516:ALA:HB3	9:N:9851:HOH:O	2.12	0.50
3:N:475:LYS:HE3	9:N:9667:HOH:O	2.11	0.50
1:L:112:ARG:HB2	9:L:6104:HOH:O	2.11	0.50
3:D:628:ARG:HD3	3:D:744:GLN:CD	2.32	0.50
2:C:19:THR:HG22	2:C:22:GLN:HB2	1.92	0.50
2:M:397:GLU:H	2:M:633:GLN:CD	2.13	0.50
3:D:639:LEU:HD13	9:E:107:HOH:O	2.11	0.50
2:C:551:GLU:HB3	2:C:906:PHE:HD2	1.76	0.50
1:A:99:LEU:HB3	1:A:114:PHE:CD2	2.46	0.50
3:D:724:GLN:C	3:D:724:GLN:HE21	2.15	0.50
2:C:722:ILE:HD12	2:C:823:VAL:HG21	1.93	0.50
2:C:753:ASP:HA	9:C:9600:HOH:O	2.11	0.50
2:M:241:LEU:HD12	9:M:1745:HOH:O	2.12	0.50
3:N:1478:SER:O	3:N:1482:ARG:HG3	2.11	0.50
1:B:57:TYR:HB2	9:B:316:HOH:O	2.11	0.50
3:D:1066:THR:OG1	3:D:1067:VAL:N	2.43	0.50
9:C:9929:HOH:O	3:D:1068:LEU:HD11	2.11	0.50
2:M:604:ALA:HB3	2:M:612:VAL:O	2.11	0.50
3:N:1189:ARG:NH1	3:N:1201:CYS:SG	2.84	0.50
2:M:757:GLY:HA2	2:M:789:SER:HB3	1.92	0.50
3:D:1236:LEU:HA	3:D:1359:GLN:OE1	2.12	0.50
2:M:432:ARG:NH2	3:N:1047:LYS:HD3	2.26	0.50
5:F:282:LEU:CD1	5:F:286:PRO:HG3	2.41	0.50
1:K:58:ILE:HG21	1:K:68:ILE:HD11	1.94	0.50
3:N:1118:ILE:HG21	3:N:1346:ARG:HH22	1.75	0.50
4:O:31:LEU:HG	4:O:35:PHE:HE1	1.76	0.50
9:D:9550:HOH:O	5:F:421:PHE:HB2	2.10	0.50
3:N:473:LEU:HD21	3:N:495:ARG:NH1	2.27	0.50
2:M:631:SER:HB3	2:M:637:LEU:HD21	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:770:GLU:HG2	3:N:65:ARG:HH22	1.77	0.50
2:C:1054:THR:HG21	2:C:1079:PRO:HB3	1.92	0.50
2:C:752:GLY:H	2:C:792:VAL:HB	1.76	0.50
1:B:188:GLN:HG3	9:D:2381:HOH:O	2.10	0.50
3:N:1292:VAL:O	3:N:1303:TYR:HB2	2.12	0.50
2:C:726:ILE:O	2:C:726:ILE:HG22	2.11	0.50
2:M:231:PRO:HA	9:M:1364:HOH:O	2.11	0.50
2:M:606:VAL:HG22	2:M:645:VAL:HG13	1.94	0.50
2:C:952:LEU:HD12	2:C:969:GLN:OE1	2.11	0.50
3:D:464:LEU:O	3:D:468:LEU:HG	2.11	0.50
3:N:562:ALA:HB1	3:N:567:ILE:CD1	2.41	0.50
3:N:441:ARG:HB3	9:N:9669:HOH:O	2.11	0.50
3:D:519:VAL:HA	3:D:544:TYR:OH	2.12	0.50
3:D:22:SER:OG	3:D:91:GLY:HA2	2.12	0.50
1:K:63:HIS:HD2	1:K:65:PHE:H	1.58	0.50
2:M:339:LEU:HD22	2:M:391:LEU:HD13	1.93	0.50
1:K:99:LEU:CD2	1:K:122:ILE:HD11	2.41	0.50
3:N:729:HIS:CE1	3:N:731:LEU:HG	2.46	0.50
1:K:156:HIS:HD2	1:K:157:GLY:N	2.10	0.50
5:F:153:PRO:HG2	5:F:154:LYS:H	1.76	0.50
1:B:122:ILE:HD11	9:B:455:HOH:O	2.11	0.50
2:C:195:LEU:HD13	9:C:2092:HOH:O	2.10	0.50
2:C:169:GLY:HA3	9:C:9863:HOH:O	2.10	0.50
3:N:586:ARG:HB2	9:N:2411:HOH:O	2.11	0.50
4:O:51:LEU:HD12	4:O:52:GLU:H	1.75	0.50
2:M:253:ALA:HB3	9:M:1190:HOH:O	2.11	0.50
3:D:169:TYR:N	3:D:170:PRO:CD	2.75	0.50
2:M:63:GLY:O	2:M:103:LYS:HE2	2.10	0.50
2:C:9:ILE:HD11	9:C:9893:HOH:O	2.10	0.50
5:P:169:GLU:CD	5:P:169:GLU:H	2.14	0.50
2:M:9:ILE:HG12	2:M:907:ASP:CG	2.31	0.50
1:K:197:LEU:H	1:K:197:LEU:HD23	1.76	0.50
1:L:150:TYR:HE2	1:L:152:PRO:HG3	1.76	0.50
2:C:676:ILE:O	3:D:948:THR:HG22	2.11	0.50
3:D:517:VAL:HG11	3:D:581:LEU:HD21	1.93	0.50
3:D:1468:LEU:HD13	3:D:1470:ARG:HD3	1.93	0.50
2:C:437:ARG:HA	9:C:9653:HOH:O	2.12	0.50
3:D:554:LEU:O	3:D:558:LEU:HG	2.12	0.50
2:M:1075:ASP:OD1	4:O:28:GLN:HG3	2.11	0.50
3:N:42:ASP:O	3:N:43:GLY:O	2.29	0.50
3:N:551:ASN:O	3:N:554:LEU:HB3	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1052:MET:HG3	3:D:623:VAL:HG22	1.93	0.50
3:N:907:GLU:HG2	3:N:908:LYS:N	2.27	0.50
3:D:135:LEU:CD1	3:D:147:VAL:HG23	2.38	0.50
3:D:1495:ILE:HG12	4:E:80:VAL:HG11	1.94	0.50
3:D:666:ILE:HD12	3:D:666:ILE:N	2.24	0.50
2:C:384:GLU:CD	2:C:388:ARG:HH21	2.15	0.50
2:C:184:MET:HB2	2:C:193:LEU:CD1	2.42	0.50
3:D:1359:GLN:HB3	9:D:9265:HOH:O	2.12	0.50
3:N:165:LYS:HB2	3:N:395:VAL:HG11	1.93	0.50
2:M:31:GLN:OE1	2:M:38:LYS:HB2	2.12	0.50
2:C:57:GLU:OE1	2:C:63:GLY:HA2	2.11	0.50
2:M:601:GLY:O	2:M:648:ARG:HA	2.12	0.50
3:N:1068:LEU:O	3:N:1072:ILE:HG12	2.12	0.50
3:N:169:TYR:HA	3:N:392:SER:HA	1.94	0.50
2:M:226:VAL:HG22	2:M:230:ARG:NH2	2.26	0.50
5:F:422:LEU:N	5:F:422:LEU:HD23	2.27	0.50
2:M:561:GLY:HA3	2:M:842:ARG:O	2.12	0.50
1:L:71:VAL:HG13	9:L:3336:HOH:O	2.11	0.50
2:C:39:ARG:HA	2:C:39:ARG:NE	2.26	0.50
2:C:53:PRO:HG3	9:C:2143:HOH:O	2.12	0.50
2:M:592:LEU:HA	9:M:1416:HOH:O	2.11	0.50
2:C:1068:GLU:O	2:C:1072:LYS:HG2	2.11	0.50
3:D:412:GLY:O	3:D:421:LEU:HB3	2.11	0.50
3:N:524:LEU:HD23	9:N:9183:HOH:O	2.12	0.50
2:C:1085:PHE:CE1	2:C:1111:ILE:HG21	2.47	0.50
3:D:493:ARG:HG2	3:D:493:ARG:HH11	1.77	0.50
3:D:563:PRO:HB3	9:F:445:HOH:O	2.11	0.50
2:C:54:ILE:HG23	2:C:54:ILE:O	2.12	0.50
2:M:184:MET:HB2	2:M:193:LEU:CD1	2.42	0.50
3:N:681:ARG:NH1	3:N:681:ARG:HB3	2.26	0.50
1:L:101:LEU:HG	1:L:114:PHE:HA	1.94	0.50
3:N:1262:LEU:CD2	3:N:1351:GLU:HG3	2.41	0.50
1:K:101:LEU:HG	1:K:113:ASP:O	2.12	0.50
5:F:403:LYS:NZ	5:F:406:ARG:HB2	2.27	0.50
3:D:675:ARG:HD3	9:D:2630:HOH:O	2.12	0.50
3:D:965:GLU:HA	3:D:965:GLU:OE1	2.12	0.50
4:E:31:LEU:HD12	4:E:32:ARG:CD	2.41	0.50
2:C:968:LEU:HD11	9:C:9220:HOH:O	2.12	0.50
3:D:1087:ARG:CG	3:D:1234:THR:HA	2.42	0.50
3:N:1282:ARG:HA	3:N:1315:ASP:OD1	2.11	0.50
2:C:759:THR:HB	2:C:785:VAL:CG2	2.41	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:587:ARG:HH11	3:D:587:ARG:HG2	1.76	0.50
2:M:863:ASP:O	2:M:865:THR:N	2.44	0.50
2:M:520:GLU:N	9:M:1671:HOH:O	2.41	0.50
2:C:743:VAL:HG11	2:C:800:VAL:HG21	1.93	0.50
2:M:427:VAL:HG11	9:M:1672:HOH:O	2.10	0.50
3:D:432:TYR:HA	3:D:448:GLU:O	2.11	0.50
5:P:153:PRO:O	5:P:157:GLU:HG2	2.12	0.50
5:F:123:ASP:OD2	5:F:126:LEU:HD22	2.12	0.50
2:M:79:PRO:HG2	2:M:82:GLU:HB2	1.93	0.50
3:D:1396:GLU:O	3:D:1400:VAL:HG23	2.12	0.50
3:N:980:MET:HB3	3:N:982:PHE:CD1	2.47	0.50
3:D:683:ILE:HG22	9:D:2014:HOH:O	2.12	0.50
3:D:1283:ILE:N	3:D:1315:ASP:OD1	2.45	0.50
3:N:546:ARG:HD3	9:P:514:HOH:O	2.12	0.50
5:F:102:LEU:HD13	5:F:187:LEU:CA	2.42	0.50
2:C:329:GLY:H	2:C:488:ALA:HB3	1.74	0.50
3:D:561:GLY:HA2	5:F:132:ARG:NH2	2.26	0.50
3:D:571:LYS:HB2	3:D:571:LYS:NZ	2.26	0.50
3:D:65:ARG:CG	3:D:66:GLN:H	2.14	0.50
2:C:579:VAL:CG1	2:C:887:GLU:HG3	2.36	0.50
3:D:860:LEU:HA	3:D:877:PRO:HB2	1.92	0.50
2:M:140:ILE:HD12	2:M:140:ILE:H	1.77	0.50
2:M:22:GLN:O	2:M:121:MET:HE1	2.12	0.50
3:N:1112:CYS:HA	3:N:1195:GLN:HE22	1.76	0.50
1:L:89:PHE:CE2	1:L:146:ARG:HB3	2.47	0.50
5:P:338:LEU:HG	9:P:531:HOH:O	2.12	0.50
1:A:9:PRO:HB3	1:A:25:LEU:HD21	1.94	0.50
3:N:1242:HIS:CE1	3:N:1266:ARG:HD3	2.47	0.50
3:N:1335:LEU:HD23	3:N:1344:VAL:HA	1.93	0.50
3:D:865:THR:HG21	9:D:2307:HOH:O	2.11	0.50
1:B:140:MET:N	1:B:140:MET:SD	2.85	0.50
3:D:483:HIS:ND1	3:D:483:HIS:N	2.59	0.50
3:D:895:VAL:O	3:D:899:LEU:HG	2.12	0.50
3:N:1240:THR:HG23	9:N:9436:HOH:O	2.11	0.50
3:D:992:ILE:O	3:D:995:LEU:HB3	2.12	0.50
2:M:242:LEU:HD12	9:M:1962:HOH:O	2.12	0.50
2:C:720:GLU:HA	2:C:759:THR:O	2.12	0.50
2:M:101:ILE:HG22	2:M:102:HIS:N	2.26	0.50
2:C:604:ALA:HB3	2:C:612:VAL:O	2.12	0.50
2:M:381:ALA:HA	9:M:1661:HOH:O	2.11	0.50
3:N:1380:GLU:HG2	3:N:1418:LYS:HD3	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:685:ASP:HB2	9:D:2219:HOH:O	2.11	0.50
1:A:185:ARG:HB3	9:A:497:HOH:O	2.11	0.50
3:N:178:LEU:HD22	9:N:9728:HOH:O	2.12	0.50
3:N:1035:ILE:HG22	3:N:1039:CYS:SG	2.52	0.50
2:M:292:ARG:HD2	2:M:299:LYS:HD3	1.93	0.50
5:F:138:SER:HB2	5:F:140:ARG:HG2	1.93	0.50
3:N:644:LEU:HD12	3:N:645:PRO:CD	2.41	0.50
5:F:268:ILE:HD11	9:F:522:HOH:O	2.10	0.50
3:D:1147:ARG:O	3:D:1166:LEU:HD23	2.12	0.50
3:D:1176:LYS:HA	3:D:1179:GLU:OE1	2.12	0.50
2:M:749:VAL:HG12	2:M:753:ASP:HB2	1.93	0.50
2:C:380:ALA:HA	2:C:383:ARG:HG2	1.94	0.50
2:C:553:ASP:HA	2:C:881:ASN:HA	1.94	0.50
3:D:1336:LEU:HD22	3:D:1421:LEU:HB2	1.94	0.50
1:B:86:VAL:HG23	9:B:594:HOH:O	2.12	0.50
3:D:1004:THR:O	3:D:1007:VAL:HG22	2.12	0.50
3:D:844:ALA:HB3	3:D:848:GLU:OE2	2.12	0.50
2:M:251:ASP:HB3	2:M:252:LYS:HD2	1.94	0.50
5:F:409:LYS:HD3	9:F:686:HOH:O	2.11	0.50
3:D:700:VAL:HG22	3:D:718:PRO:HG3	1.94	0.50
3:N:1080:GLY:HA3	9:N:9498:HOH:O	2.10	0.50
3:D:601:ARG:HG3	3:D:605:ASP:CB	2.42	0.49
5:F:188:ILE:HA	9:F:658:HOH:O	2.11	0.49
2:C:630:ARG:NH2	2:C:706:GLU:C	2.66	0.49
2:M:1115:LEU:HD12	2:M:1115:LEU:N	2.27	0.49
3:N:85:VAL:HG11	3:N:89:ARG:NH2	2.27	0.49
3:D:1372:VAL:HG23	3:D:1375:MET:HE3	1.94	0.49
2:C:691:SER:HB2	2:C:858:MET:SD	2.52	0.49
2:C:397:GLU:HB3	9:C:9154:HOH:O	2.10	0.49
2:C:398:THR:HG22	2:C:568:ALA:O	2.11	0.49
3:N:949:ILE:HD11	3:N:1023:MET:CE	2.42	0.49
2:M:607:ASP:HB2	2:M:610:ARG:NH1	2.27	0.49
3:D:817:GLU:OE2	3:D:839:LEU:HD22	2.11	0.49
5:P:269:ASN:HD21	5:P:273:ARG:CZ	2.24	0.49
3:D:1412:LYS:HD2	9:D:2744:HOH:O	2.12	0.49
3:N:973:GLN:HA	3:N:976:GLN:NE2	2.26	0.49
3:N:1090:ASP:HA	3:N:1093:TYR:HB2	1.93	0.49
2:M:253:ALA:HB1	9:M:2202:HOH:O	2.12	0.49
2:M:239:PHE:CZ	2:M:254:VAL:HB	2.47	0.49
3:N:776:GLU:HB3	3:N:912:LYS:HE2	1.94	0.49
2:C:286:SER:HB3	2:C:299:LYS:HE3	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:78:ILE:O	1:L:82:LEU:HG	2.12	0.49
2:M:295:ASP:HB2	9:M:1770:HOH:O	2.11	0.49
2:M:481:ASP:HB2	9:M:1768:HOH:O	2.12	0.49
3:D:1355:VAL:HG23	9:D:9685:HOH:O	2.10	0.49
2:M:948:GLU:HB3	2:M:953:VAL:HG23	1.93	0.49
2:C:76:PRO:HG2	9:C:9648:HOH:O	2.11	0.49
3:D:759:ALA:HA	3:D:763:MET:HB3	1.94	0.49
3:N:1261:GLU:HB3	9:N:2134:HOH:O	2.12	0.49
2:M:80:GLN:HG3	9:M:2237:HOH:O	2.11	0.49
5:P:372:ARG:HB2	9:P:766:HOH:O	2.12	0.49
2:C:1096:ALA:HB2	3:D:101:HIS:CD2	2.48	0.49
2:M:264:PRO:HB3	2:M:289:THR:CB	2.42	0.49
3:D:179:VAL:HG22	3:D:389:GLU:CD	2.32	0.49
3:D:171:LEU:HD13	3:D:389:GLU:O	2.12	0.49
3:N:81:THR:HG22	3:N:82:LYS:H	1.77	0.49
5:P:141:VAL:O	5:P:145:PRO:HD2	2.12	0.49
2:C:674:VAL:HG11	2:C:992:MET:HB3	1.94	0.49
3:N:500:ARG:HD2	9:N:9803:HOH:O	2.11	0.49
3:N:22:SER:HA	3:N:90:MET:O	2.13	0.49
2:M:673:LEU:HD22	2:M:867:VAL:HA	1.94	0.49
3:N:165:LYS:CB	3:N:395:VAL:HG11	2.43	0.49
3:N:860:LEU:HA	3:N:877:PRO:HB2	1.93	0.49
1:B:124:ASN:ND2	1:B:127:LEU:HD22	2.27	0.49
4:E:64:ALA:HA	4:E:67:GLU:CD	2.32	0.49
3:N:785:ILE:HD12	3:N:785:ILE:N	2.26	0.49
4:E:54:LEU:HD21	9:E:101:HOH:O	2.12	0.49
3:N:1129:THR:HG23	9:N:2064:HOH:O	2.12	0.49
9:N:9234:HOH:O	5:P:309:LYS:HB3	2.12	0.49
3:N:980:MET:HB3	3:N:982:PHE:CE1	2.48	0.49
2:C:703:ILE:HD11	2:C:830:LYS:HG2	1.93	0.49
2:M:497:ALA:HA	2:M:515:ALA:HA	1.93	0.49
1:B:159:LYS:N	1:B:159:LYS:HD3	2.27	0.49
3:N:488:ARG:HD3	9:N:9642:HOH:O	2.11	0.49
3:N:561:GLY:HA3	5:P:184:ARG:NH2	2.26	0.49
2:C:1094:ALA:HA	9:D:2368:HOH:O	2.13	0.49
3:D:90:MET:HE2	3:D:519:VAL:O	2.12	0.49
1:K:89:PHE:HD1	1:K:120:VAL:HG23	1.76	0.49
5:P:414:ARG:HH11	5:P:414:ARG:HG2	1.77	0.49
2:C:47:ALA:HB2	2:C:345:ARG:NH1	2.27	0.49
2:M:470:PRO:HG2	2:M:538:GLN:OE1	2.12	0.49
2:M:909:ALA:C	2:M:910:LYS:HD2	2.32	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:555:ALA:HB2	3:D:1070:TYR:HE2	1.78	0.49
3:N:133:ILE:HD13	3:N:454:ALA:HB1	1.95	0.49
3:N:850:LEU:O	3:N:853:VAL:HB	2.12	0.49
2:M:1085:PHE:CE1	2:M:1111:ILE:HG21	2.47	0.49
3:N:654:LYS:CE	3:N:674:ARG:HH22	2.25	0.49
1:L:127:LEU:HD12	1:L:128:HIS:H	1.76	0.49
3:N:1394:VAL:HG23	9:N:2210:HOH:O	2.12	0.49
1:K:58:ILE:HD13	1:K:140:MET:HB3	1.93	0.49
3:N:972:LEU:HD13	9:N:9514:HOH:O	2.12	0.49
2:C:836:GLY:HA2	3:D:725:SER:OG	2.11	0.49
2:M:41:ASN:HD22	2:M:41:ASN:H	1.60	0.49
2:C:513:VAL:HB	9:C:2036:HOH:O	2.12	0.49
3:D:102:ILE:HG13	9:D:9163:HOH:O	2.13	0.49
3:N:1478:SER:HG	3:N:1480:PHE:HB3	1.76	0.49
1:K:97:VAL:HG23	9:K:1348:HOH:O	2.11	0.49
1:B:62:LEU:HD12	9:B:386:HOH:O	2.10	0.49
3:N:120:ALA:HB1	9:N:2010:HOH:O	2.12	0.49
5:F:297:PRO:HA	9:F:639:HOH:O	2.11	0.49
2:M:42:VAL:HG12	2:M:43:GLY:H	1.77	0.49
3:N:178:LEU:HD23	3:N:181:ASP:OD2	2.12	0.49
2:C:110:GLU:HB2	2:C:368:THR:CG2	2.42	0.49
2:C:746:GLY:C	2:C:799:ILE:HG22	2.32	0.49
2:C:302:VAL:C	2:C:305:PRO:HD2	2.33	0.49
3:N:1476:THR:CG2	4:O:21:VAL:HG22	2.36	0.49
3:N:28:LYS:NZ	3:N:552:ASN:HD22	2.10	0.49
5:P:347:GLN:HA	5:P:350:LEU:HD22	1.94	0.49
3:D:1168:MET:HE1	3:D:1171:VAL:HB	1.94	0.49
2:M:577:PRO:HG3	2:M:993:PHE:CE1	2.47	0.49
5:F:263:HIS:HB3	9:F:740:HOH:O	2.12	0.49
2:M:408:ARG:HB2	2:M:455:LEU:HD22	1.93	0.49
2:M:1015:LEU:HD13	3:N:528:VAL:HG21	1.95	0.49
2:M:339:LEU:HB3	2:M:385:PHE:HZ	1.77	0.49
3:N:616:GLN:HA	3:N:616:GLN:NE2	2.25	0.49
1:L:176:ARG:HG3	1:L:200:TRP:CE3	2.48	0.49
2:M:109:LYS:HE3	9:M:1380:HOH:O	2.11	0.49
5:F:282:LEU:HD11	5:F:286:PRO:HG3	1.93	0.49
2:C:410:ILE:HD11	2:C:455:LEU:HD22	1.95	0.49
1:K:112:ARG:NH1	1:K:125:PRO:HB2	2.27	0.49
9:C:9546:HOH:O	3:D:1029:ARG:HB3	2.12	0.49
2:M:490:GLU:HG2	2:M:494:TYR:CE1	2.47	0.49
3:D:576:GLU:C	3:D:576:GLU:CD	2.71	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:E:17:TYR:CD2	4:E:17:TYR:N	2.78	0.49
1:L:64:GLU:HG3	1:L:165:ILE:HD12	1.94	0.49
2:M:51:THR:HA	9:M:1601:HOH:O	2.12	0.49
5:P:162:LYS:HG3	9:P:601:HOH:O	2.12	0.49
5:F:374:GLY:HA2	9:F:564:HOH:O	2.11	0.49
2:C:489:THR:HG23	9:C:9613:HOH:O	2.11	0.49
5:F:223:ALA:HB2	5:F:242:TRP:HB2	1.94	0.49
2:C:724:ARG:CG	2:C:740:GLU:HA	2.42	0.49
3:N:829:VAL:H	3:N:835:SER:HB2	1.77	0.49
3:D:567:ILE:HG22	3:D:571:LYS:HZ1	1.77	0.49
1:A:30:ARG:NE	1:A:191:ASP:HB3	2.26	0.49
2:C:671:ASN:ND2	2:C:671:ASN:H	2.10	0.49
3:D:1140:ILE:O	3:D:1144:LEU:HD12	2.12	0.49
2:M:860:HIS:CE1	2:M:975:TYR:HB2	2.48	0.49
2:M:141:HIS:HB3	2:M:418:LEU:HD23	1.94	0.49
2:M:418:LEU:HD12	2:M:418:LEU:N	2.27	0.49
2:M:610:ARG:HD2	2:M:612:VAL:HG23	1.95	0.49
2:C:815:LEU:HD12	9:C:9978:HOH:O	2.13	0.49
3:N:661:MET:HE2	3:N:677:LEU:HD11	1.95	0.49
2:M:1067:TYR:CE2	5:P:342:VAL:HA	2.46	0.49
3:N:1264:GLU:HG2	3:N:1266:ARG:CZ	2.41	0.49
1:A:18:ARG:HH12	1:A:88:ARG:NH1	2.10	0.49
3:D:1256:LEU:HA	3:D:1259:VAL:HG23	1.94	0.49
4:E:29:GLN:HB2	4:E:33:HIS:NE2	2.27	0.49
4:E:33:HIS:HD2	9:E:151:HOH:O	1.96	0.49
2:C:146:VAL:HG22	2:C:162:ILE:HG23	1.94	0.49
1:B:103:ALA:HB1	1:B:107:LYS:CE	2.42	0.49
3:N:1009:LYS:HA	3:N:1012:GLU:OE2	2.13	0.49
3:D:1119:SER:HA	3:D:1186:VAL:O	2.12	0.49
3:D:924:MET:HB3	4:E:7:ASP:OD1	2.13	0.49
4:O:37:ASN:HA	4:O:93:TYR:CE2	2.47	0.49
3:D:789:LEU:HD22	3:D:882:PHE:HD1	1.77	0.49
3:D:815:ALA:HB3	9:D:2551:HOH:O	2.11	0.49
3:N:757:ALA:HA	9:O:6768:HOH:O	2.11	0.49
3:N:861:GLN:H	3:N:861:GLN:CD	2.16	0.49
2:C:1098:ASP:OD1	2:C:1098:ASP:C	2.50	0.49
2:M:1095:LEU:HD23	3:N:582:LEU:HD22	1.94	0.49
3:D:493:ARG:NH2	3:D:1389:LEU:N	2.60	0.49
3:N:171:LEU:HD22	3:N:390:PRO:HG3	1.95	0.49
2:M:783:ARG:HG2	2:M:785:VAL:HG12	1.94	0.49
2:C:704:HIS:HB2	2:C:831:ARG:NE	2.27	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:805:GLU:O	3:D:805:GLU:OE1	2.31	0.49
1:L:156:HIS:ND1	1:L:158:ILE:HG12	2.27	0.49
2:C:585:GLU:O	2:C:588:VAL:HG22	2.13	0.49
2:M:15:LEU:HD22	2:M:18:LEU:HD11	1.95	0.49
2:M:542:VAL:HB	9:M:1641:HOH:O	2.12	0.49
2:M:512:ARG:HD3	9:M:1205:HOH:O	2.12	0.49
2:M:267:TYR:CD1	2:M:272:ALA:HB1	2.47	0.49
3:D:32:ILE:O	5:F:258:ILE:HD12	2.13	0.49
3:D:160:GLU:HG3	9:D:2065:HOH:O	2.12	0.49
3:N:1133:ARG:HB2	9:N:9840:HOH:O	2.11	0.49
3:N:430:ASP:HB2	9:N:2649:HOH:O	2.12	0.49
2:C:510:ALA:HB3	2:C:513:VAL:HG23	1.93	0.49
2:C:5:ARG:HH11	2:C:5:ARG:HG2	1.76	0.49
1:A:127:LEU:HD12	1:A:127:LEU:C	2.33	0.49
5:P:368:VAL:HG13	9:P:766:HOH:O	2.13	0.49
2:M:1012:PRO:HG2	9:M:2087:HOH:O	2.12	0.49
1:L:81:ASN:HB2	9:L:3134:HOH:O	2.11	0.49
5:F:124:PRO:HB2	9:F:642:HOH:O	2.11	0.49
3:N:920:LEU:HD21	9:N:2253:HOH:O	2.13	0.49
5:F:316:SER:C	5:F:318:GLU:N	2.62	0.49
3:N:107:ASP:HB3	9:N:9434:HOH:O	2.11	0.49
2:C:771:GLU:HG2	9:F:623:HOH:O	2.11	0.49
5:F:79:ASP:HB3	5:F:80:PRO:CD	2.42	0.49
3:D:804:LEU:HB3	9:D:9135:HOH:O	2.12	0.49
2:C:575:GLN:OE1	2:C:670:GLN:HB3	2.13	0.49
3:N:1253:THR:OG1	3:N:1258:ARG:HD2	2.12	0.49
3:D:115:LEU:HD22	3:D:502:PHE:CE1	2.45	0.49
3:D:868:TYR:HB3	3:D:873:LEU:HD11	1.93	0.49
3:D:588:GLY:HA2	9:D:9743:HOH:O	2.11	0.49
1:A:126:ASP:N	9:A:325:HOH:O	2.44	0.49
2:C:9:ILE:HG12	2:C:907:ASP:CG	2.31	0.49
5:P:167:PRO:HD3	9:P:592:HOH:O	2.12	0.49
3:D:539:ASP:CG	5:F:318:GLU:HB2	2.33	0.49
1:L:116:PRO:HB3	9:L:1408:HOH:O	2.12	0.49
4:E:50:THR:HG23	9:E:215:HOH:O	2.11	0.49
2:C:376:ARG:HB3	2:C:377:PRO:HD3	1.95	0.49
2:M:818:GLY:HA3	9:M:1356:HOH:O	2.12	0.49
3:D:44:LEU:HB3	3:D:525:ARG:NH2	2.27	0.49
3:N:835:SER:HB2	9:N:9623:HOH:O	2.13	0.49
9:N:9944:HOH:O	5:P:140:ARG:HD2	2.12	0.49
3:D:830:ALA:HA	9:D:9695:HOH:O	2.11	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:186:VAL:HG23	2:C:187:ASN:N	2.22	0.49
3:N:787:LEU:O	3:N:787:LEU:HD12	2.13	0.49
1:A:72:LYS:HB3	1:A:73:GLU:OE2	2.13	0.49
2:M:975:TYR:HA	2:M:982:PRO:HA	1.94	0.49
3:N:119:SER:H	3:N:123:LEU:CB	2.23	0.49
2:C:818:GLY:HA2	9:C:9069:HOH:O	2.13	0.49
2:C:1106:ASP:C	2:C:1107:ASN:HD22	2.16	0.49
2:M:114:PHE:CE2	5:P:283:GLY:HA3	2.43	0.49
2:C:480:THR:HG22	2:C:481:ASP:N	2.27	0.49
4:O:87:LYS:O	4:O:91:ARG:HG3	2.13	0.49
5:F:274:THR:O	5:F:278:LEU:HG	2.13	0.49
1:K:59:GLU:HG3	1:K:139:ASN:O	2.12	0.49
4:E:33:HIS:HB2	4:E:37:ASN:ND2	2.28	0.49
2:C:654:LEU:HD11	2:C:663:ASN:ND2	2.27	0.49
3:D:531:ASP:HB2	9:D:2442:HOH:O	2.12	0.49
5:P:207:LEU:HA	9:P:647:HOH:O	2.13	0.49
3:N:584:ASN:CG	3:N:590:PRO:HD2	2.33	0.49
3:D:797:LYS:HZ3	3:D:1016:PRO:HB3	1.77	0.49
1:B:183:ASP:HB2	9:B:424:HOH:O	2.13	0.49
1:L:111:ALA:HB3	1:L:124:ASN:O	2.13	0.49
2:C:1030:GLN:HB2	3:D:626:SER:HB2	1.93	0.49
3:D:1185:GLU:HG3	9:D:2020:HOH:O	2.12	0.49
1:A:97:VAL:HG23	9:A:555:HOH:O	2.13	0.49
3:D:1002:LYS:HG3	9:D:2445:HOH:O	2.13	0.49
2:C:98:LEU:N	2:C:98:LEU:HD12	2.27	0.49
2:C:249:LYS:HA	9:C:9082:HOH:O	2.12	0.49
3:D:27:GLU:C	3:D:28:LYS:HD2	2.33	0.49
3:D:581:LEU:HD12	3:D:603:LEU:HD12	1.94	0.49
3:D:493:ARG:HH22	3:D:1389:LEU:CG	2.24	0.49
1:A:14:ARG:CZ	1:A:24:VAL:HG23	2.42	0.49
3:D:1272:ALA:CA	3:D:1326:THR:HB	2.41	0.49
3:D:1141:GLU:HA	9:D:2295:HOH:O	2.13	0.49
3:N:951:ILE:HD12	3:N:1062:ARG:HE	1.77	0.49
2:M:744:ARG:HG3	2:M:747:ALA:HB2	1.95	0.49
2:C:838:LYS:HG3	2:C:997:LEU:HB2	1.94	0.49
1:B:44:LEU:HD13	1:B:177:VAL:HG12	1.94	0.49
2:M:73:LEU:HD12	2:M:73:LEU:O	2.13	0.49
3:N:661:MET:HA	3:N:666:ILE:HD11	1.94	0.49
5:P:342:VAL:HG23	5:P:343:ASP:OD1	2.13	0.49
2:C:1107:ASN:N	2:C:1107:ASN:HD22	2.11	0.49
2:C:173:ASP:HB3	9:C:9134:HOH:O	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:750:PRO:HB2	3:D:756:GLN:OE1	2.12	0.49
1:B:101:LEU:HA	9:B:368:HOH:O	2.11	0.49
2:C:28:ARG:HD2	9:C:9482:HOH:O	2.11	0.49
3:N:1014:ASN:HA	9:N:2305:HOH:O	2.13	0.49
2:C:275:TYR:OH	2:C:487:THR:HG21	2.13	0.49
3:N:1054:GLU:HB2	9:N:9249:HOH:O	2.12	0.49
2:C:80:GLN:HB3	2:C:84:ARG:HH21	1.77	0.49
2:M:591:SER:HB2	9:M:1565:HOH:O	2.12	0.49
2:M:730:SER:O	2:M:734:LEU:HD13	2.12	0.49
3:D:437:VAL:HG21	9:D:9719:HOH:O	2.12	0.49
3:N:523:ASP:O	3:N:526:PRO:HG3	2.13	0.49
2:C:218:VAL:HG22	2:C:221:LEU:CD2	2.43	0.49
3:D:172:PRO:HG2	9:D:9683:HOH:O	2.13	0.49
2:C:630:ARG:HH22	2:C:707:ARG:N	2.11	0.49
2:C:949:LYS:HA	3:D:798:GLU:OE1	2.13	0.49
3:D:1120:VAL:HB	3:D:1144:LEU:HD21	1.94	0.49
5:F:81:VAL:HG12	5:F:85:LEU:CD1	2.43	0.49
2:C:15:LEU:HD12	2:C:586:ARG:HG3	1.94	0.49
2:M:140:ILE:O	2:M:418:LEU:HD23	2.13	0.49
2:M:1015:LEU:N	5:P:333:ILE:O	2.46	0.49
2:C:837:ASP:O	2:C:848:VAL:HG13	2.13	0.49
1:L:112:ARG:HG3	9:L:6377:HOH:O	2.12	0.49
3:N:514:LEU:HD23	9:N:9120:HOH:O	2.13	0.49
3:N:1137:ARG:O	3:N:1140:ILE:N	2.45	0.49
5:P:102:LEU:HD22	5:P:183:ALA:O	2.12	0.49
3:N:1106:VAL:HG21	3:N:1474:ALA:HB2	1.94	0.49
2:M:93:PRO:HG3	2:M:117:HIS:CE1	2.43	0.49
3:D:1262:LEU:HD23	3:D:1352:ILE:CG1	2.43	0.49
3:N:32:ILE:HG12	3:N:38:LYS:O	2.13	0.49
3:D:1412:LYS:C	3:D:1414:PRO:HD3	2.33	0.49
2:C:19:THR:HG22	2:C:19:THR:O	2.13	0.49
3:D:988:ARG:HD2	3:D:989:TYR:N	2.28	0.49
1:A:85:LEU:HA	1:A:124:ASN:HD22	1.78	0.49
2:M:9:ILE:HG13	2:M:9:ILE:O	2.13	0.49
3:N:888:GLU:HA	3:N:891:GLU:OE1	2.13	0.49
3:D:789:LEU:HD22	3:D:882:PHE:CD1	2.48	0.49
3:N:182:GLY:HA2	9:N:9150:HOH:O	2.13	0.49
3:D:501:ALA:HB1	3:D:1453:ALA:HA	1.95	0.49
4:O:46:PRO:HD2	9:O:1272:HOH:O	2.11	0.49
3:D:434:ARG:HB2	3:D:447:VAL:CG1	2.43	0.48
3:D:421:LEU:HD12	3:D:435:VAL:HG11	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:553:ARG:NH1	5:P:211:ASP:HA	2.27	0.48
3:N:396:VAL:HA	3:N:448:GLU:OE2	2.13	0.48
2:C:1118:LYS:HD2	3:D:22:SER:O	2.12	0.48
3:N:171:LEU:HB2	3:N:390:PRO:CA	2.42	0.48
2:C:333:ILE:HD13	2:C:467:ILE:HG13	1.95	0.48
3:N:829:VAL:HA	9:N:9268:HOH:O	2.13	0.48
3:D:800:LYS:HE2	9:D:9324:HOH:O	2.13	0.48
3:D:875:THR:HG22	3:D:879:ARG:HB2	1.94	0.48
3:D:178:LEU:HG	3:D:200:ASP:H	1.77	0.48
2:C:675:ALA:CA	2:C:989:VAL:HG12	2.39	0.48
3:N:18:ILE:HA	3:N:21:TRP:CZ3	2.48	0.48
2:C:47:ALA:HA	2:C:50:GLU:OE2	2.13	0.48
5:F:404:ALA:O	5:F:408:LEU:HB2	2.12	0.48
3:N:952:ASP:HA	3:N:1062:ARG:NH2	2.27	0.48
1:K:67:THR:OG1	2:M:608:GLY:HA3	2.13	0.48
2:C:265:ARG:HB3	2:C:267:TYR:CE2	2.47	0.48
3:N:389:GLU:HG3	9:N:9445:HOH:O	2.12	0.48
1:K:91:ASN:HB2	9:K:4664:HOH:O	2.12	0.48
3:D:767:HIS:CD2	4:E:6:ILE:HG12	2.48	0.48
3:N:1005:GLN:O	3:N:1009:LYS:HB2	2.12	0.48
3:N:1065:LEU:HD11	3:N:1069:GLU:HB2	1.95	0.48
2:C:510:ALA:HB3	2:C:513:VAL:CG2	2.43	0.48
1:L:133:GLU:HA	9:L:1907:HOH:O	2.13	0.48
1:L:159:LYS:HD2	9:L:6173:HOH:O	2.12	0.48
1:A:128:HIS:NE2	1:A:131:THR:HG23	2.28	0.48
3:N:992:ILE:O	3:N:995:LEU:HB3	2.12	0.48
2:C:143:SER:HB3	2:C:330:ASN:O	2.13	0.48
3:D:1045:MET:O	3:D:1053:PHE:HD1	1.95	0.48
3:N:566:ILE:HG13	5:P:192:LEU:HD11	1.96	0.48
3:N:185:VAL:HG12	3:N:191:LEU:HD21	1.95	0.48
3:D:22:SER:HA	3:D:90:MET:O	2.13	0.48
3:D:584:ASN:CG	3:D:590:PRO:HD2	2.34	0.48
2:C:281:LEU:HB2	2:C:309:TYR:CG	2.48	0.48
2:M:460:ARG:HB3	2:M:460:ARG:NH1	2.28	0.48
5:F:138:SER:O	5:F:141:VAL:HG12	2.13	0.48
2:C:352:ALA:HA	2:C:355:VAL:CG1	2.43	0.48
5:P:401:GLU:HG3	5:P:402:ASN:N	2.28	0.48
2:C:498:GLN:CD	3:D:1068:LEU:HD12	2.33	0.48
3:D:1068:LEU:C	3:D:1070:TYR:N	2.63	0.48
2:M:525:SER:OG	2:M:527:GLU:HG3	2.13	0.48
3:D:1052:THR:HG22	9:D:2045:HOH:O	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:99:LEU:HD11	9:B:455:HOH:O	2.12	0.48
2:M:927:GLY:HA2	2:M:930:LYS:CE	2.42	0.48
3:D:445:ARG:HG2	3:D:445:ARG:HH11	1.79	0.48
3:N:1198:TYR:HA	9:N:9899:HOH:O	2.12	0.48
3:D:170:PRO:HG2	9:D:9947:HOH:O	2.14	0.48
3:D:615:ARG:NH2	3:D:1440:PHE:HA	2.28	0.48
1:K:72:LYS:NZ	2:M:644:VAL:HG12	2.29	0.48
2:M:643:VAL:HG13	2:M:647:GLN:CD	2.33	0.48
2:C:69:LEU:HD12	2:C:97:ARG:HB3	1.95	0.48
2:M:198:ARG:HB3	9:M:1364:HOH:O	2.12	0.48
3:N:519:VAL:HG13	3:N:544:TYR:CZ	2.48	0.48
3:N:177:ALA:HB3	9:N:9617:HOH:O	2.13	0.48
3:N:211:VAL:HG13	3:N:393:ILE:HA	1.96	0.48
3:D:1465:ASN:ND2	3:D:1470:ARG:HH11	2.11	0.48
3:D:214:GLU:CD	3:D:390:PRO:HB2	2.33	0.48
2:C:338:GLU:HA	2:C:341:THR:CG2	2.42	0.48
2:M:139:GLN:HE21	2:M:334:ARG:HD3	1.77	0.48
3:N:666:ILE:HA	3:N:684:LYS:NZ	2.29	0.48
2:M:78:PHE:HB2	2:M:88:LEU:HD21	1.95	0.48
2:M:690:ILE:HG13	2:M:694:LEU:HD12	1.95	0.48
3:D:1124:GLN:NE2	3:D:1135:ARG:HA	2.29	0.48
3:D:1050:GLY:HA2	9:D:9419:HOH:O	2.13	0.48
5:F:419:ARG:O	5:F:421:PHE:N	2.46	0.48
3:N:135:LEU:HD22	9:N:9205:HOH:O	2.13	0.48
1:B:109:VAL:HG21	1:B:138:LEU:HD21	1.95	0.48
1:B:132:LEU:HD21	1:B:136:GLY:O	2.13	0.48
2:M:20:GLU:HG3	9:M:2282:HOH:O	2.14	0.48
5:P:157:GLU:HB2	9:P:425:HOH:O	2.12	0.48
3:D:797:LYS:NZ	3:D:1016:PRO:HB3	2.28	0.48
1:K:229:GLN:HB3	9:L:1928:HOH:O	2.13	0.48
5:P:349:LEU:HB2	9:P:452:HOH:O	2.13	0.48
1:A:95:GLN:HA	9:A:316:HOH:O	2.13	0.48
3:N:243:ALA:HB3	9:N:2636:HOH:O	2.12	0.48
3:D:1212:ALA:HA	9:D:2287:HOH:O	2.13	0.48
3:N:563:PRO:HG3	5:P:188:ILE:HG21	1.96	0.48
3:D:601:ARG:HG3	3:D:605:ASP:HB2	1.95	0.48
3:D:566:ILE:HG12	5:F:192:LEU:HD11	1.95	0.48
2:C:503:LEU:HD13	2:C:507:ARG:O	2.13	0.48
2:C:630:ARG:HE	2:C:705:ILE:CB	2.25	0.48
5:P:304:VAL:HG23	9:P:543:HOH:O	2.13	0.48
2:C:395:LYS:HG2	2:C:397:GLU:HG2	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:565:GLN:HG2	2:M:995:MET:CE	2.44	0.48
5:F:125:ASP:O	5:F:129:GLU:HG2	2.13	0.48
2:M:328:LEU:HD11	2:M:434:HIS:HD2	1.78	0.48
3:D:608:SER:HB2	3:D:1443:THR:OG1	2.13	0.48
2:M:412:ALA:HB1	2:M:419:THR:HG23	1.96	0.48
3:D:1156:LEU:HD11	3:D:1177:ALA:HA	1.95	0.48
1:A:2:LEU:O	1:A:6:LEU:HB3	2.13	0.48
1:L:115:LEU:HD12	1:L:115:LEU:O	2.14	0.48
2:M:420:ARG:HG3	2:M:422:ARG:HG2	1.95	0.48
5:P:201:LYS:HB2	9:P:509:HOH:O	2.13	0.48
2:M:209:ARG:O	2:M:213:ALA:HB2	2.14	0.48
3:D:1402:ALA:HB2	3:D:1415:VAL:CG2	2.44	0.48
3:D:167:GLU:HB2	9:D:2586:HOH:O	2.12	0.48
4:O:66:LYS:HB2	4:O:66:LYS:NZ	2.28	0.48
3:N:685:ASP:HB3	9:N:9486:HOH:O	2.12	0.48
2:C:79:PRO:HG2	2:C:82:GLU:HB2	1.95	0.48
3:D:1401:GLU:OE1	3:D:1405:GLU:HB2	2.14	0.48
2:C:44:ILE:HD13	2:C:344:PHE:CD1	2.49	0.48
3:N:202:VAL:HA	9:N:9842:HOH:O	2.12	0.48
3:N:396:VAL:HG13	3:N:446:VAL:O	2.13	0.48
3:N:396:VAL:CG2	3:N:447:VAL:HB	2.41	0.48
5:P:171:LYS:HE3	5:P:175:HIS:NE2	2.28	0.48
2:C:773:LEU:HD21	9:F:722:HOH:O	2.13	0.48
2:C:437:ARG:HG3	2:C:469:THR:HB	1.95	0.48
2:M:1115:LEU:HB3	3:N:85:VAL:CG1	2.42	0.48
2:C:886:LEU:CD2	3:D:951:ILE:HG13	2.43	0.48
9:M:1411:HOH:O	5:P:351:SER:HA	2.12	0.48
2:C:625:LEU:O	2:C:627:ARG:N	2.47	0.48
2:C:497:ALA:HA	2:C:515:ALA:HA	1.96	0.48
2:M:403:SER:O	2:M:407:LYS:HG3	2.13	0.48
3:N:1145:TYR:HE2	3:N:1168:MET:HB2	1.78	0.48
3:D:806:PHE:CZ	3:D:813:LEU:HB3	2.48	0.48
2:M:1085:PHE:CD2	3:N:1468:LEU:HA	2.41	0.48
1:K:11:PHE:HE1	1:L:225:PHE:HD2	1.61	0.48
1:K:11:PHE:CE1	1:L:225:PHE:HD2	2.32	0.48
5:P:321:ILE:HG21	5:P:332:PHE:CE2	2.48	0.48
2:M:704:HIS:CD2	2:M:831:ARG:HH21	2.32	0.48
1:L:184:THR:HB	1:L:194:LYS:NZ	2.27	0.48
3:N:207:PHE:CB	3:N:208:PRO:HD2	2.39	0.48
4:E:33:HIS:CG	4:E:89:MET:HG2	2.49	0.48
2:C:573:ARG:HG3	2:C:698:ASP:O	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:E:54:LEU:HG	4:E:58:PRO:CG	2.42	0.48
1:L:52:ALA:HB2	1:L:170:VAL:O	2.14	0.48
3:N:986:ARG:HD3	9:N:9116:HOH:O	2.14	0.48
5:F:194:LEU:HB2	9:F:669:HOH:O	2.13	0.48
2:M:817:PRO:CB	5:P:309:LYS:HZ1	2.27	0.48
2:C:780:GLU:HG3	2:C:781:LYS:H	1.79	0.48
2:C:736:ASP:OD1	2:C:747:ALA:HB1	2.13	0.48
3:D:1338:ALA:HB2	9:D:2268:HOH:O	2.14	0.48
1:L:213:GLN:O	1:L:217:ILE:HG13	2.13	0.48
3:N:411:THR:HG23	3:N:429:SER:OG	2.13	0.48
1:L:34:VAL:HG22	1:L:181:VAL:HG21	1.96	0.48
2:M:1089:VAL:O	2:M:1093:GLN:HG3	2.14	0.48
3:N:1034:GLN:O	3:N:1037:GLN:HG3	2.13	0.48
3:D:1390:LEU:HB2	9:D:9725:HOH:O	2.13	0.48
2:C:170:PRO:HG2	2:C:258:TYR:CD2	2.48	0.48
2:M:411:SER:HB2	2:M:452:ILE:HG23	1.95	0.48
2:C:569:VAL:HG23	2:C:635:THR:CG2	2.43	0.48
3:D:1072:ILE:O	3:D:1075:HIS:HD2	1.96	0.48
2:M:873:PRO:O	2:M:876:VAL:HG23	2.14	0.48
2:M:433:THR:HG21	2:M:488:ALA:HB1	1.95	0.48
2:M:333:ILE:O	2:M:465:GLY:HA3	2.13	0.48
2:C:838:LYS:HE2	2:C:997:LEU:HB2	1.96	0.48
1:A:102:LYS:HG3	1:A:139:ASN:CB	2.43	0.48
2:C:1060:ILE:CG2	2:C:1061:GLU:N	2.76	0.48
2:C:8:ARG:HH11	2:C:10:ARG:NH2	2.10	0.48
3:N:1267:ARG:HH12	3:N:1331:ASP:HB2	1.78	0.48
3:D:441:ARG:O	3:D:443:VAL:HG23	2.14	0.48
3:D:679:ARG:HB2	3:D:682:ASP:CG	2.34	0.48
3:N:416:ALA:H	3:N:417:PRO:CD	2.27	0.48
2:C:937:ASP:HB2	2:C:940:GLU:HB2	1.95	0.48
3:N:104:PHE:HE2	3:N:1448:THR:HA	1.78	0.48
2:C:12:VAL:HB	9:C:2276:HOH:O	2.12	0.48
3:N:1128:VAL:HG13	9:N:2064:HOH:O	2.13	0.48
1:B:123:MET:HA	9:B:326:HOH:O	2.13	0.48
3:D:818:ARG:HA	9:D:2451:HOH:O	2.13	0.48
5:P:398:ARG:HD2	9:P:837:HOH:O	2.13	0.48
3:N:1423:GLY:HA3	9:N:9510:HOH:O	2.13	0.48
3:D:1306:PRO:HB3	9:D:9535:HOH:O	2.12	0.48
2:C:791:ARG:HH11	2:C:791:ARG:HB3	1.79	0.48
2:M:302:VAL:O	2:M:306:THR:HG23	2.14	0.48
3:N:603:LEU:O	3:N:607:LEU:HD12	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1431:THR:HB	9:D:9583:HOH:O	2.13	0.48
1:K:42:ARG:HH12	2:M:857:ASP:CB	2.15	0.48
3:N:187:LYS:HD2	9:N:2028:HOH:O	2.13	0.48
2:M:462:ASP:HA	9:M:1149:HOH:O	2.13	0.48
3:N:28:LYS:HB3	3:N:30:GLU:HG2	1.95	0.48
1:B:73:GLU:HB2	1:B:78:ILE:HD11	1.95	0.48
2:M:535:SER:HB2	2:M:537:LYS:HZ1	1.78	0.48
3:D:792:ILE:O	3:D:878:GLY:HA3	2.13	0.48
2:M:145:GLY:O	2:M:163:ILE:HG23	2.13	0.48
2:M:777:ILE:HG22	2:M:778:PHE:CD1	2.49	0.48
2:M:807:ARG:HE	2:M:809:GLY:H	1.61	0.48
3:D:477:LEU:HD22	3:D:492:ALA:HB1	1.96	0.48
3:N:1326:THR:HG23	9:N:9288:HOH:O	2.13	0.48
2:M:1109:VAL:HG22	9:N:2350:HOH:O	2.14	0.48
2:M:676:ILE:HG23	2:M:676:ILE:O	2.12	0.48
5:F:116:LEU:HB3	5:F:127:ILE:HD13	1.96	0.48
3:N:172:PRO:HB2	9:N:9445:HOH:O	2.14	0.48
3:D:868:TYR:H	3:D:873:LEU:HD11	1.78	0.48
3:N:672:ALA:HB2	5:P:420:ASP:OD1	2.13	0.48
3:N:1478:SER:OG	3:N:1480:PHE:HB3	2.13	0.48
2:M:480:THR:HG22	2:M:481:ASP:N	2.29	0.48
2:M:933:GLY:HA2	9:M:1676:HOH:O	2.13	0.48
3:D:251:PHE:HA	9:D:9540:HOH:O	2.14	0.48
3:D:117:ASP:HA	9:D:9152:HOH:O	2.13	0.48
5:P:417:LYS:HD2	9:P:544:HOH:O	2.14	0.48
5:P:136:LEU:HB3	5:P:185:GLN:NE2	2.28	0.48
3:N:1033:GLN:HE21	3:N:1036:ARG:NH1	1.87	0.48
5:P:291:ILE:HG23	5:P:304:VAL:HG21	1.94	0.48
4:E:70:THR:HG23	9:E:176:HOH:O	2.14	0.48
2:C:521:PRO:HB2	3:D:1055:VAL:CB	2.40	0.48
2:C:1051:GLU:CD	3:D:751:LEU:H	2.15	0.48
3:N:782:SER:O	3:N:786:ILE:HG13	2.13	0.48
1:B:211:LEU:O	1:B:214:ALA:HB3	2.13	0.48
1:B:45:LEU:HA	9:B:499:HOH:O	2.13	0.48
2:M:1090:LYS:HG2	2:M:1112:PHE:CZ	2.49	0.48
3:D:400:VAL:HA	3:D:442:ASN:O	2.14	0.48
1:A:18:ARG:NH1	1:A:88:ARG:CZ	2.76	0.48
3:N:208:PRO:HB2	3:N:395:VAL:HG13	1.95	0.48
3:D:1412:LYS:HB2	9:D:2423:HOH:O	2.14	0.48
4:E:23:VAL:HG21	4:E:65:MET:HG2	1.95	0.48
2:M:526:PRO:HG2	9:M:1590:HOH:O	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:551:GLU:HB2	3:D:1064:GLY:HA2	1.95	0.48
2:M:1000:MET:SD	2:M:1001:VAL:HG22	2.54	0.48
3:N:1223:ILE:HD12	9:N:9657:HOH:O	2.14	0.48
2:M:618:GLY:HA3	9:M:1262:HOH:O	2.12	0.48
3:N:1102:THR:HG22	3:N:1222:GLY:CA	2.44	0.48
3:N:1380:GLU:CG	3:N:1418:LYS:HD3	2.43	0.48
3:D:709:HIS:ND1	3:D:709:HIS:N	2.57	0.48
9:N:9211:HOH:O	4:O:50:THR:HG23	2.14	0.48
3:D:1047:LYS:NZ	3:D:1053:PHE:HA	2.29	0.48
3:D:422:ALA:H	3:D:427:VAL:CG1	2.26	0.48
3:N:543:LEU:HA	3:N:546:ARG:HG3	1.96	0.48
5:P:171:LYS:HG3	5:P:175:HIS:NE2	2.29	0.48
3:D:523:ASP:O	3:D:526:PRO:HG3	2.13	0.48
2:C:266:ARG:HA	2:C:288:ARG:HD2	1.96	0.48
2:C:360:LEU:HD23	9:C:9102:HOH:O	2.13	0.48
5:P:404:ALA:O	5:P:408:LEU:HB2	2.14	0.48
2:C:338:GLU:HB3	9:C:9652:HOH:O	2.13	0.48
5:F:363:GLU:CA	5:F:367:MET:HG2	2.44	0.48
1:A:106:PRO:HG3	1:A:133:GLU:O	2.14	0.48
3:D:76:CYS:HB2	9:D:2211:HOH:O	2.12	0.48
2:M:937:ASP:HB2	2:M:940:GLU:CG	2.40	0.48
5:P:85:LEU:HD11	9:P:455:HOH:O	2.12	0.48
3:D:1354:LYS:HG2	9:D:9191:HOH:O	2.14	0.48
1:B:84:GLU:CG	1:B:127:LEU:HD21	2.44	0.48
3:D:104:PHE:HB3	3:D:512:MET:SD	2.54	0.48
1:B:105:GLY:O	1:B:132:LEU:HD23	2.14	0.48
3:D:764:LEU:HB3	9:D:9495:HOH:O	2.14	0.48
3:D:169:TYR:HA	3:D:392:SER:HA	1.96	0.48
3:N:1059:SER:OG	3:N:1065:LEU:HA	2.14	0.48
2:C:425:PHE:HE2	3:D:1079:LYS:HA	1.77	0.48
1:B:80:LEU:HD23	3:D:867:ARG:NH1	2.28	0.48
2:C:963:LEU:HG	9:C:9244:HOH:O	2.13	0.48
3:D:1000:THR:HG23	3:D:1001:GLU:N	2.28	0.48
2:M:214:TYR:N	9:M:1191:HOH:O	2.41	0.48
1:K:185:ARG:O	1:K:185:ARG:HG3	2.13	0.48
2:M:798:GLY:H	2:M:827:VAL:CG1	2.27	0.48
3:N:1224:VAL:HG11	9:N:9352:HOH:O	2.13	0.48
3:D:592:THR:HG21	9:F:764:HOH:O	2.13	0.48
3:N:196:VAL:HG13	3:N:202:VAL:HG11	1.95	0.48
3:D:1366:LYS:O	3:D:1370:ILE:HG12	2.14	0.48
2:C:289:THR:HG22	2:C:290:LEU:H	1.79	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:217:ASN:O	5:F:221:ILE:HG13	2.14	0.48
3:D:131:LYS:HA	3:D:456:MET:HG3	1.94	0.48
3:D:131:LYS:HD2	5:F:83:GLN:NE2	2.29	0.48
2:C:704:HIS:O	2:C:828:ALA:HA	2.14	0.48
5:F:273:ARG:HB3	9:F:463:HOH:O	2.13	0.48
5:P:371:LEU:HB3	5:P:375:LEU:CD2	2.44	0.48
1:L:143:ARG:NH1	1:L:158:ILE:HG23	2.28	0.48
2:C:516:ARG:NH2	3:D:1068:LEU:HB3	2.29	0.48
5:F:249:ARG:HE	5:F:262:VAL:HG21	1.79	0.48
3:N:119:SER:CB	3:N:123:LEU:H	2.21	0.48
3:N:128:TYR:HB3	3:N:129:PHE:CD1	2.49	0.48
1:B:48:ILE:HG23	9:B:607:HOH:O	2.14	0.48
3:D:165:LYS:HB2	3:D:395:VAL:HG11	1.96	0.48
3:D:699:VAL:HB	3:D:716:PHE:O	2.14	0.48
2:C:603:VAL:HG21	2:C:643:VAL:HG11	1.96	0.48
3:D:639:LEU:N	3:D:639:LEU:HD12	2.28	0.48
2:C:816:LYS:O	2:C:819:VAL:HB	2.14	0.48
5:F:319:THR:HG22	5:F:320:PRO:HD2	1.96	0.48
3:N:957:PRO:CG	3:N:1007:VAL:HG12	2.43	0.48
5:P:240:THR:O	5:P:244:ARG:HG2	2.14	0.48
2:C:496:ILE:HD12	2:C:496:ILE:H	1.79	0.48
2:C:286:SER:O	2:C:299:LYS:HE3	2.13	0.48
3:D:973:GLN:HB3	9:D:9805:HOH:O	2.14	0.48
2:M:767:PRO:HB2	9:M:1853:HOH:O	2.11	0.48
2:M:148:PHE:CZ	2:M:281:LEU:HD13	2.46	0.47
3:N:550:ARG:CZ	3:N:573:MET:HB3	2.44	0.47
3:N:177:ALA:HB2	9:N:9396:HOH:O	2.13	0.47
5:P:170:HIS:HD2	9:P:824:HOH:O	1.97	0.47
2:C:1092:LEU:HD21	3:D:1447:LEU:HD21	1.95	0.47
3:D:55:ASP:O	3:D:82:LYS:HA	2.14	0.47
2:C:1094:ALA:O	3:D:603:LEU:HD13	2.12	0.47
3:D:1393:GLN:HB2	3:D:1398:TRP:CE2	2.49	0.47
2:C:595:LEU:O	2:C:655:LEU:HG	2.14	0.47
3:D:800:LYS:HG2	9:D:9812:HOH:O	2.13	0.47
3:N:1020:LEU:HA	3:N:1023:MET:HE2	1.95	0.47
2:C:593:ALA:HB3	9:C:9552:HOH:O	2.13	0.47
2:M:939:ARG:HD3	2:M:982:PRO:CD	2.40	0.47
1:L:89:PHE:HD2	1:L:146:ARG:NH2	2.12	0.47
3:D:6:ARG:HB3	3:D:6:ARG:CZ	2.44	0.47
3:N:731:LEU:HB2	9:N:9694:HOH:O	2.14	0.47
3:N:1122:LEU:HD23	3:N:1178:ALA:HB2	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:186:LEU:HB3	1:B:192:LEU:HD13	1.96	0.47
3:N:1087:ARG:HD2	3:N:1234:THR:HA	1.95	0.47
2:C:22:GLN:NE2	2:C:121:MET:HE2	2.29	0.47
3:N:404:GLU:OE1	3:N:414:ARG:HD2	2.14	0.47
2:M:84:ARG:HG3	2:M:131:GLY:O	2.14	0.47
2:M:105:THR:HG22	9:M:1254:HOH:O	2.14	0.47
3:N:1196:THR:HG23	9:N:2567:HOH:O	2.13	0.47
2:C:748:GLU:HG3	9:C:9240:HOH:O	2.14	0.47
2:C:932:GLU:HG2	9:C:9998:HOH:O	2.14	0.47
3:D:1290:LEU:HB3	9:D:9881:HOH:O	2.13	0.47
3:D:1490:LYS:HG3	9:D:9515:HOH:O	2.14	0.47
5:P:218:GLN:O	5:P:222:ARG:HG3	2.14	0.47
2:C:1088:LEU:CD2	2:C:1092:LEU:HD12	2.44	0.47
2:C:777:ILE:HG22	2:C:778:PHE:HD1	1.79	0.47
2:C:284:ARG:HG2	2:C:285:LEU:N	2.29	0.47
2:C:308:ARG:HG2	9:C:9130:HOH:O	2.14	0.47
3:D:191:LEU:CD1	3:D:211:VAL:HG21	2.38	0.47
3:D:1478:SER:OG	3:D:1481:VAL:HG23	2.13	0.47
5:F:291:ILE:HG12	5:F:304:VAL:HG11	1.97	0.47
3:N:131:LYS:CG	3:N:568:ARG:HG2	2.44	0.47
2:C:714:ASP:HB3	9:C:9069:HOH:O	2.14	0.47
1:A:42:ARG:HG2	1:A:42:ARG:HH11	1.79	0.47
1:A:9:PRO:HD2	1:B:224:TYR:CE1	2.49	0.47
2:C:881:ASN:N	2:C:881:ASN:ND2	2.61	0.47
2:C:176:VAL:C	2:C:178:PRO:HD3	2.34	0.47
2:M:569:VAL:HG11	2:M:996:LYS:HZ2	1.78	0.47
9:N:9977:HOH:O	5:P:258:ILE:HG13	2.14	0.47
4:O:70:THR:CG2	4:O:72:ARG:HE	2.26	0.47
2:M:703:ILE:HG22	9:M:1341:HOH:O	2.14	0.47
3:D:783:ARG:CZ	3:D:1029:ARG:HG2	2.43	0.47
3:D:1164:ARG:NH1	3:D:1164:ARG:HG3	2.27	0.47
2:M:644:VAL:HG22	2:M:647:GLN:OE1	2.14	0.47
1:A:121:GLU:HG2	1:A:123:MET:SD	2.54	0.47
2:M:75:GLU:HA	9:M:1533:HOH:O	2.13	0.47
2:M:953:VAL:HA	2:M:965:GLU:OE1	2.14	0.47
3:N:459:GLU:HG2	9:N:9680:HOH:O	2.14	0.47
3:N:1285:GLU:H	3:N:1285:GLU:CD	2.18	0.47
2:M:1035:MET:HB2	9:M:1611:HOH:O	2.14	0.47
3:N:893:GLU:O	3:N:896:ALA:HB3	2.15	0.47
3:D:1132:LEU:HB2	9:D:9899:HOH:O	2.13	0.47
3:N:550:ARG:HD2	3:N:573:MET:HB3	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:565:ILE:HG23	5:P:83:GLN:NE2	2.29	0.47
3:N:573:MET:HE3	5:P:210:LEU:HD22	1.95	0.47
3:N:191:LEU:HD22	3:N:195:VAL:CG2	2.43	0.47
2:C:355:VAL:CG2	2:C:372:LEU:HG	2.44	0.47
2:M:182:VAL:CG1	2:M:193:LEU:HD13	2.44	0.47
3:N:1403:LEU:O	3:N:1407:LEU:HB2	2.14	0.47
5:F:264:MET:O	5:F:268:ILE:HD12	2.14	0.47
1:A:67:THR:HG21	2:C:609:ASN:HD21	1.77	0.47
3:N:907:GLU:O	3:N:911:LEU:HD13	2.14	0.47
2:M:625:LEU:O	2:M:627:ARG:N	2.46	0.47
2:M:625:LEU:CD1	2:M:641:PRO:HG3	2.43	0.47
3:N:131:LYS:HD2	9:P:609:HOH:O	2.13	0.47
3:D:1031:ASN:O	3:D:1034:GLN:HB2	2.14	0.47
3:D:190:GLU:HG3	3:D:210:ARG:CD	2.44	0.47
3:N:1432:LYS:CD	3:N:1433:SER:H	2.27	0.47
1:K:9:PRO:HG2	1:L:224:TYR:CD2	2.48	0.47
1:L:191:ASP:O	1:L:192:LEU:HG	2.14	0.47
2:C:443:THR:CG2	2:C:449:ILE:HG13	2.44	0.47
3:D:1087:ARG:HG2	3:D:1234:THR:O	2.15	0.47
3:D:1503:VAL:HG11	9:D:9429:HOH:O	2.13	0.47
5:F:392:VAL:HG12	5:F:396:ARG:HB2	1.96	0.47
3:N:488:ARG:HH11	3:N:488:ARG:HG3	1.79	0.47
2:M:742:VAL:HG12	2:M:743:VAL:N	2.29	0.47
1:L:104:GLU:OE1	1:L:137:ARG:HA	2.13	0.47
5:P:399:GLN:HG2	9:P:545:HOH:O	2.14	0.47
3:N:63:TYR:HB3	3:N:68:PHE:CE1	2.50	0.47
5:P:91:VAL:HG11	9:P:477:HOH:O	2.13	0.47
3:D:947:ILE:O	3:D:947:ILE:HD12	2.14	0.47
3:D:101:HIS:NE2	3:D:582:LEU:HD22	2.30	0.47
3:D:17:LYS:HA	3:D:20:SER:HB2	1.96	0.47
3:D:46:ASP:HB3	3:D:49:ILE:HG13	1.96	0.47
2:C:262:ALA:O	2:C:264:PRO:O	2.33	0.47
5:P:122:LEU:HD21	5:P:126:LEU:HB3	1.97	0.47
2:M:578:VAL:N	2:M:671:ASN:HD21	2.12	0.47
2:M:140:ILE:CG2	2:M:333:ILE:HG13	2.45	0.47
2:M:464:LEU:HA	2:M:464:LEU:HD12	1.70	0.47
3:N:863:VAL:HG23	9:N:9189:HOH:O	2.14	0.47
3:N:102:ILE:HD11	9:N:2283:HOH:O	2.13	0.47
3:N:129:PHE:O	3:N:572:ARG:HG2	2.14	0.47
3:N:1109:GLU:HG2	3:N:1201:CYS:CA	2.40	0.47
3:N:1209:LEU:HG	3:N:1219:GLU:OE1	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:714:ASP:HB2	9:C:9031:HOH:O	2.13	0.47
2:C:645:VAL:HA	9:C:9535:HOH:O	2.14	0.47
3:N:928:ALA:O	3:N:931:LEU:HB2	2.14	0.47
3:N:160:GLU:HG3	3:N:165:LYS:O	2.15	0.47
3:D:1331:ASP:OD1	3:D:1333:HIS:HB2	2.13	0.47
2:C:517:ARG:HH11	2:C:522:VAL:HG11	1.75	0.47
3:N:962:GLN:O	3:N:966:GLU:HG3	2.13	0.47
3:N:886:VAL:HG13	3:N:930:LEU:HD11	1.96	0.47
3:D:729:HIS:ND1	3:D:730:PRO:N	2.62	0.47
3:N:844:ALA:O	3:N:867:ARG:HB3	2.13	0.47
3:D:868:TYR:CG	3:D:869:MET:N	2.82	0.47
3:N:1007:VAL:CG2	3:N:1008:PHE:N	2.77	0.47
3:N:134:VAL:HG13	9:N:9888:HOH:O	2.13	0.47
3:N:1066:THR:CG2	3:N:1069:GLU:HG3	2.45	0.47
2:M:115:LEU:CD1	2:M:373:VAL:HG11	2.44	0.47
1:A:94:LEU:HD11	1:A:119:ASP:HB3	1.97	0.47
3:D:99:ALA:HA	3:D:575:GLN:HE22	1.80	0.47
3:D:847:ASP:O	3:D:850:LEU:HG	2.14	0.47
3:D:243:ALA:HB1	9:D:9815:HOH:O	2.13	0.47
2:C:789:SER:O	2:C:791:ARG:HG2	2.14	0.47
3:D:1382:THR:HG21	3:D:1418:LYS:HE3	1.96	0.47
3:N:71:LYS:HE3	9:N:2078:HOH:O	2.15	0.47
1:A:216:GLU:O	1:A:220:GLU:HG3	2.15	0.47
3:N:613:ARG:NH2	3:N:617:ASN:HD21	2.12	0.47
3:N:442:ASN:HB2	9:N:9986:HOH:O	2.13	0.47
2:C:774:LEU:HB2	9:C:9721:HOH:O	2.13	0.47
5:F:208:SER:HA	9:F:465:HOH:O	2.14	0.47
1:A:150:TYR:HE1	2:C:696:LYS:HA	1.80	0.47
3:N:55:ASP:HA	3:N:82:LYS:CG	2.36	0.47
2:C:585:GLU:N	9:C:9558:HOH:O	2.48	0.47
2:M:579:VAL:HA	2:M:901:TYR:O	2.14	0.47
2:M:328:LEU:HD22	2:M:433:THR:O	2.15	0.47
2:M:285:LEU:HD12	2:M:288:ARG:O	2.15	0.47
2:M:1111:ILE:HG12	2:M:1112:PHE:HD1	1.79	0.47
2:M:114:PHE:HD2	2:M:114:PHE:O	1.97	0.47
3:N:112:ILE:HD13	3:N:461:ILE:HG21	1.96	0.47
4:O:82:GLU:O	4:O:85:LEU:HD22	2.14	0.47
2:C:601:GLY:HA2	2:C:616:GLU:HG2	1.96	0.47
3:D:1302:GLU:OE2	3:D:1304:LYS:HG3	2.15	0.47
1:L:80:LEU:HD11	3:N:842:VAL:HB	1.96	0.47
2:M:350:ARG:HG3	9:M:2249:HOH:O	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:256:TYR:HD1	9:M:1213:HOH:O	1.98	0.47
3:D:33:ASN:HB3	3:D:35:ARG:NH1	2.28	0.47
3:N:1302:GLU:HB2	9:N:2060:HOH:O	2.15	0.47
2:C:286:SER:HB3	2:C:299:LYS:CE	2.45	0.47
3:D:1249:ALA:HB2	9:D:9479:HOH:O	2.14	0.47
2:C:617:ASP:HB3	9:C:9258:HOH:O	2.14	0.47
3:D:1148:VAL:HG11	3:D:1203:LYS:HE3	1.95	0.47
2:C:166:PRO:HD2	9:C:9424:HOH:O	2.15	0.47
2:C:133:ASP:N	2:C:133:ASP:OD2	2.46	0.47
2:M:92:ALA:HB2	2:M:120:LEU:HD11	1.96	0.47
3:D:112:ILE:O	3:D:112:ILE:HD12	2.14	0.47
3:D:119:SER:H	3:D:123:LEU:CB	2.26	0.47
5:P:166:LEU:HA	9:P:824:HOH:O	2.15	0.47
2:C:724:ARG:HG3	2:C:740:GLU:HA	1.95	0.47
2:C:300:ASP:HA	9:C:9351:HOH:O	2.14	0.47
1:A:182:GLU:O	1:A:194:LYS:HB3	2.15	0.47
5:F:404:ALA:HA	9:F:728:HOH:O	2.15	0.47
2:M:874:LEU:HD23	3:N:1023:MET:SD	2.54	0.47
2:M:902:ILE:O	2:M:904:PRO:HD3	2.15	0.47
2:C:902:ILE:HG23	9:C:9373:HOH:O	2.15	0.47
2:M:288:ARG:CZ	2:M:288:ARG:HB2	2.43	0.47
1:L:58:ILE:HG23	9:L:2434:HOH:O	2.15	0.47
1:A:25:LEU:C	1:A:25:LEU:HD23	2.35	0.47
3:N:483:HIS:N	3:N:483:HIS:ND1	2.61	0.47
1:L:127:LEU:HD12	1:L:128:HIS:N	2.29	0.47
3:N:1123:PHE:HE2	3:N:1184:GLN:HA	1.80	0.47
3:N:586:ARG:NE	3:N:586:ARG:HA	2.29	0.47
9:N:9488:HOH:O	5:P:259:ARG:HD2	2.15	0.47
5:F:287:THR:HG22	5:F:290:GLU:OE1	2.14	0.47
3:D:723:GLY:HA3	9:D:2200:HOH:O	2.15	0.47
3:D:1148:VAL:HG21	3:D:1203:LYS:HA	1.95	0.47
1:L:150:TYR:CD2	3:N:857:ILE:HG13	2.50	0.47
2:C:98:LEU:HD11	9:C:9172:HOH:O	2.13	0.47
2:M:726:ILE:HG22	2:M:726:ILE:O	2.15	0.47
2:M:697:ARG:HB2	9:M:1324:HOH:O	2.13	0.47
3:N:702:LEU:N	9:N:9949:HOH:O	2.48	0.47
3:D:1102:THR:HG22	3:D:1222:GLY:HA2	1.95	0.47
2:C:983:ILE:HG23	3:D:944:THR:O	2.14	0.47
2:C:358:ARG:NH2	2:C:374:ASN:HB3	2.27	0.47
3:D:41:ARG:CD	3:D:42:ASP:H	2.27	0.47
3:D:601:ARG:HG2	3:D:606:ILE:CD1	2.42	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1465:ASN:HD21	3:D:1470:ARG:HH11	1.60	0.47
2:C:775:ARG:HE	2:C:782:ALA:CB	2.28	0.47
2:C:332:ARG:HE	2:C:464:LEU:CD1	2.25	0.47
3:D:560:GLN:CD	5:F:218:GLN:HE22	2.18	0.47
3:N:146:PRO:HG2	9:N:9420:HOH:O	2.14	0.47
3:D:951:ILE:HD13	3:D:951:ILE:HA	1.69	0.47
2:C:949:LYS:HD2	3:D:796:ARG:HH21	1.79	0.47
3:N:695:ILE:HG13	9:N:9171:HOH:O	2.14	0.47
1:B:164:ALA:HB2	9:B:316:HOH:O	2.15	0.47
2:C:137:VAL:CG2	2:C:391:LEU:HG	2.44	0.47
2:M:580:MET:HB2	2:M:902:ILE:CD1	2.44	0.47
2:C:585:GLU:CD	2:C:585:GLU:H	2.17	0.47
2:M:473:ARG:HG2	2:M:473:ARG:NH1	2.29	0.47
2:M:557:ARG:NE	2:M:879:ARG:HG2	2.30	0.47
2:C:820:ARG:HH11	2:C:820:ARG:HG2	1.79	0.47
2:M:165:LEU:HA	2:M:166:PRO:O	2.15	0.47
1:B:23:PHE:CE2	1:B:199:ILE:HD12	2.50	0.47
2:M:674:VAL:HG23	2:M:869:VAL:O	2.15	0.47
3:N:161:LEU:HD11	3:N:452:ILE:HD13	1.96	0.47
2:M:710:ILE:HD12	2:M:790:LEU:HB2	1.96	0.47
1:B:176:ARG:NH2	3:D:884:ARG:HD3	2.29	0.47
1:K:54:THR:HG23	1:K:156:HIS:CE1	2.50	0.47
1:L:28:LEU:HB3	9:L:1824:HOH:O	2.14	0.47
5:F:277:GLN:HA	9:F:518:HOH:O	2.15	0.47
5:P:264:MET:HB3	9:P:696:HOH:O	2.15	0.47
1:B:111:ALA:HB3	1:B:124:ASN:O	2.15	0.47
2:C:602:GLU:HA	2:C:647:GLN:O	2.15	0.47
3:N:1267:ARG:NH2	3:N:1271:LYS:HD2	2.29	0.47
2:C:164:PRO:HB2	9:C:9863:HOH:O	2.15	0.47
3:N:969:ARG:HG3	9:N:9204:HOH:O	2.15	0.47
1:B:175:ARG:HA	9:B:363:HOH:O	2.14	0.47
3:D:633:VAL:C	3:D:635:PRO:HD3	2.35	0.47
1:K:29:GLU:HB2	1:K:32:PHE:CE1	2.49	0.47
1:L:99:LEU:HD11	9:L:4796:HOH:O	2.14	0.47
2:C:1034:GLU:HA	2:C:1037:VAL:CG2	2.44	0.47
4:E:28:GLN:O	4:E:31:LEU:HG	2.15	0.47
3:D:926:LYS:HD3	9:D:9733:HOH:O	2.13	0.47
2:M:1001:VAL:HG12	9:M:2086:HOH:O	2.14	0.47
2:M:722:ILE:CD1	2:M:823:VAL:HG21	2.45	0.47
5:P:278:LEU:CB	5:P:286:PRO:HG2	2.44	0.47
3:N:534:ARG:HA	9:P:700:HOH:O	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:209:ARG:O	2:C:213:ALA:HB2	2.14	0.47
2:M:816:LYS:O	2:M:819:VAL:HB	2.15	0.47
4:E:17:TYR:O	4:E:21:VAL:HG23	2.15	0.47
2:M:175:GLU:HB3	2:M:183:SER:OG	2.14	0.47
5:F:110:MET:HG3	9:F:919:HOH:O	2.14	0.47
3:N:556:LYS:NZ	9:N:2200:HOH:O	2.47	0.47
5:P:356:LYS:HE3	9:P:529:HOH:O	2.15	0.47
3:N:994:GLN:HG2	9:N:9836:HOH:O	2.14	0.47
3:N:621:LYS:HB2	9:N:9549:HOH:O	2.14	0.47
1:B:19:GLU:O	1:B:200:TRP:HA	2.14	0.47
3:D:799:LYS:H	3:D:826:PRO:HG2	1.80	0.47
3:D:1225:ALA:HA	3:D:1367:HIS:ND1	2.30	0.47
3:D:607:LEU:HA	3:D:613:ARG:HB2	1.97	0.47
3:D:1101:VAL:HG22	3:D:1428:ALA:HB2	1.95	0.47
1:L:41:ARG:HG2	9:L:1814:HOH:O	2.14	0.47
2:C:41:ASN:HD22	2:C:41:ASN:H	1.63	0.47
2:M:22:GLN:CD	2:M:336:VAL:HG21	2.35	0.47
1:B:13:VAL:HG13	1:B:23:PHE:CD1	2.50	0.47
3:N:116:LEU:HD13	3:N:118:LEU:HD11	1.96	0.47
3:N:1231:GLU:HG2	3:N:1232:PRO:N	2.29	0.47
3:N:1333:HIS:O	3:N:1336:LEU:HB3	2.14	0.47
2:M:941:VAL:O	2:M:944:LEU:HB2	2.15	0.47
5:P:419:ARG:O	5:P:421:PHE:N	2.48	0.47
1:L:100:LEU:HB2	1:L:115:LEU:HD21	1.96	0.47
5:P:278:LEU:HB3	5:P:286:PRO:CG	2.43	0.47
2:C:1004:LYS:O	2:C:1006:HIS:ND1	2.48	0.47
2:C:7:GLY:HA3	2:C:907:ASP:O	2.15	0.47
2:M:20:GLU:HB3	9:M:1513:HOH:O	2.15	0.47
3:D:1258:ARG:HG2	9:D:9685:HOH:O	2.15	0.47
1:B:137:ARG:HG2	9:B:322:HOH:O	2.15	0.47
3:N:629:SER:OG	3:N:726:ILE:HG13	2.14	0.47
3:D:1370:ILE:HG22	9:D:9744:HOH:O	2.14	0.47
1:L:39:PRO:O	1:L:43:ILE:HG12	2.15	0.47
5:F:372:ARG:HB3	9:F:706:HOH:O	2.15	0.47
3:D:475:LYS:HG3	9:D:2336:HOH:O	2.15	0.47
3:D:555:LYS:HA	3:D:558:LEU:HD12	1.97	0.47
3:D:565:ILE:HD12	3:D:565:ILE:N	2.29	0.47
2:M:173:ASP:O	2:M:184:MET:HA	2.15	0.47
2:M:172:ILE:HA	2:M:185:LYS:O	2.14	0.47
1:L:153:ALA:HB1	1:L:166:PRO:HB2	1.97	0.47
2:M:332:ARG:CZ	2:M:464:LEU:HG	2.45	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:832:ARG:HB3	3:N:833:GLU:OE1	2.14	0.47
3:D:399:ARG:NH1	9:D:9441:HOH:O	2.47	0.47
2:C:1018:GLN:HE21	2:C:1060:ILE:HD11	1.78	0.47
1:A:41:ARG:HH12	1:A:177:VAL:C	2.19	0.47
2:M:1092:LEU:HD13	2:M:1099:VAL:CG2	2.41	0.47
3:N:417:PRO:HB3	9:N:9679:HOH:O	2.14	0.47
5:P:416:ARG:HB2	9:P:805:HOH:O	2.14	0.47
3:D:843:PHE:CE1	3:D:864:VAL:HG11	2.50	0.47
2:C:537:LYS:H	2:C:537:LYS:CD	2.27	0.47
1:B:132:LEU:HD13	1:B:138:LEU:HD22	1.96	0.47
2:M:770:GLU:CG	3:N:65:ARG:HH22	2.28	0.47
2:C:893:ALA:HB2	2:C:918:LEU:HD12	1.97	0.47
2:M:998:TYR:CZ	2:M:1000:MET:HA	2.50	0.47
3:N:1288:GLU:HG2	3:N:1289:LYS:HG3	1.96	0.47
1:A:137:ARG:CZ	1:A:137:ARG:HB3	2.44	0.47
1:L:137:ARG:HD3	9:L:8082:HOH:O	2.13	0.47
3:N:188:GLY:HA3	9:N:9365:HOH:O	2.15	0.47
2:M:961:GLU:HA	2:M:961:GLU:OE2	2.15	0.47
3:D:820:GLU:HB2	3:D:836:VAL:HG11	1.95	0.47
1:L:18:ARG:O	1:L:207:PRO:HD3	2.15	0.47
4:E:40:LEU:HD13	9:E:136:HOH:O	2.15	0.47
2:C:367:LEU:HG	9:C:9562:HOH:O	2.14	0.47
3:N:447:VAL:HG11	9:N:9570:HOH:O	2.14	0.47
2:C:679:PHE:HB3	9:C:9083:HOH:O	2.15	0.47
3:D:82:LYS:O	3:D:85:VAL:HG22	2.15	0.47
2:C:264:PRO:HB3	2:C:289:THR:HB	1.95	0.47
3:D:186:VAL:HG13	3:D:187:LYS:N	2.30	0.47
5:F:393:THR:O	5:F:397:ILE:HG13	2.15	0.47
3:D:1198:TYR:OH	3:D:1432:LYS:HG2	2.15	0.47
5:F:302:LYS:O	5:F:306:GLU:HB2	2.15	0.47
2:C:672:VAL:CG2	2:C:868:ASP:HB2	2.41	0.47
1:B:161:ARG:HB2	9:B:316:HOH:O	2.15	0.47
3:N:953:ASP:O	3:N:955:VAL:HG23	2.14	0.47
2:M:875:GLY:HA2	2:M:879:ARG:HH11	1.80	0.47
1:K:63:HIS:HD2	1:K:65:PHE:N	2.13	0.47
2:M:438:ILE:HD11	2:M:467:ILE:HD12	1.97	0.47
2:M:922:PHE:CD2	2:M:964:LYS:HD3	2.49	0.47
2:M:274:ARG:CB	2:M:285:LEU:HD13	2.42	0.47
2:M:134:ARG:N	9:M:1509:HOH:O	2.47	0.47
3:D:629:SER:HB3	3:D:726:ILE:HD11	1.96	0.47
3:D:527:MET:CE	5:F:258:ILE:HD11	2.45	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1101:VAL:HG12	3:N:1428:ALA:HB2	1.97	0.47
1:A:198:ARG:HB2	1:A:200:TRP:CZ3	2.50	0.47
5:P:337:HIS:CD2	5:P:337:HIS:N	2.82	0.47
2:C:129:ILE:HG22	2:C:130:ASN:ND2	2.30	0.47
3:N:973:GLN:HG2	9:N:9757:HOH:O	2.15	0.47
3:D:967:ALA:O	3:D:995:LEU:HD21	2.15	0.47
4:O:38:THR:OG1	4:O:40:LEU:HD12	2.15	0.47
2:C:721:ARG:O	2:C:758:ARG:HA	2.15	0.47
2:M:69:LEU:HD12	2:M:97:ARG:HB3	1.96	0.47
2:M:3:ILE:HD13	2:M:900:ARG:HB2	1.96	0.47
3:D:701:LEU:HD23	9:D:9229:HOH:O	2.15	0.47
2:M:480:THR:HG22	2:M:481:ASP:H	1.80	0.47
5:F:110:MET:HG2	5:F:114:LYS:HE3	1.96	0.47
3:N:827:ILE:O	3:N:837:GLY:HA3	2.15	0.47
3:N:490:ALA:HA	9:N:9898:HOH:O	2.15	0.47
1:B:205:VAL:HG11	9:B:515:HOH:O	2.15	0.47
5:P:115:LYS:O	5:P:119:ILE:HG13	2.15	0.46
2:C:1115:LEU:H	2:C:1115:LEU:HD12	1.80	0.46
3:D:93:ILE:HG12	3:D:548:ILE:CD1	2.43	0.46
2:M:262:ALA:O	2:M:264:PRO:O	2.33	0.46
2:C:218:VAL:HA	2:C:221:LEU:HD23	1.96	0.46
5:F:93:LEU:HD22	5:F:98:GLU:CB	2.40	0.46
3:D:131:LYS:HE3	9:F:426:HOH:O	2.15	0.46
2:C:708:TYR:HE2	2:C:793:PRO:HD2	1.80	0.46
2:C:338:GLU:CA	2:C:341:THR:HG22	2.44	0.46
2:M:579:VAL:HB	2:M:890:LEU:CD2	2.45	0.46
3:N:911:LEU:O	3:N:915:VAL:HG23	2.14	0.46
3:N:1481:VAL:HG11	4:O:18:ARG:CA	2.42	0.46
3:N:828:LYS:HB3	9:N:9189:HOH:O	2.14	0.46
3:D:630:VAL:O	3:D:726:ILE:HG13	2.14	0.46
2:C:810:ASP:HB3	2:C:813:VAL:HG22	1.97	0.46
2:C:810:ASP:HA	2:C:811:PRO:HD3	1.75	0.46
3:N:166:GLN:HG2	3:N:207:PHE:CG	2.50	0.46
1:B:101:LEU:HB2	1:B:114:PHE:CD2	2.50	0.46
2:C:603:VAL:HG21	2:C:643:VAL:CG1	2.44	0.46
4:E:31:LEU:HD12	4:E:32:ARG:HD3	1.97	0.46
3:D:1408:ILE:HB	9:D:2476:HOH:O	2.14	0.46
3:N:6:ARG:HH11	3:N:6:ARG:HB3	1.80	0.46
1:K:227:ASN:N	1:K:227:ASN:ND2	2.62	0.46
2:M:242:LEU:HA	9:M:1222:HOH:O	2.15	0.46
3:N:637:LEU:HD11	3:N:641:GLN:HB2	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:124:ASN:ND2	1:A:127:LEU:HD23	2.30	0.46
2:M:301:GLU:HG2	9:M:1706:HOH:O	2.14	0.46
2:C:620:LEU:HD13	2:C:620:LEU:N	2.30	0.46
3:D:53:ILE:O	3:D:53:ILE:HG12	2.14	0.46
3:D:173:PRO:HG3	9:D:9980:HOH:O	2.14	0.46
1:B:160:ASP:HB3	9:B:469:HOH:O	2.15	0.46
3:D:112:ILE:O	3:D:116:LEU:HB2	2.15	0.46
2:M:218:VAL:HG22	2:M:221:LEU:HD23	1.96	0.46
2:M:232:GLU:O	2:M:235:LEU:HB2	2.15	0.46
1:B:36:LEU:O	1:B:39:PRO:HD2	2.15	0.46
2:C:979:THR:CG2	2:C:981:GLU:HB2	2.45	0.46
5:P:166:LEU:HD23	9:P:824:HOH:O	2.13	0.46
2:C:874:LEU:HD21	3:D:787:LEU:CD2	2.32	0.46
5:F:93:LEU:HG	5:F:190:ALA:HB3	1.97	0.46
3:N:836:VAL:HG12	9:N:9623:HOH:O	2.14	0.46
2:C:359:MET:HB3	9:C:9102:HOH:O	2.14	0.46
9:M:1991:HOH:O	5:P:373:LYS:HD2	2.15	0.46
2:C:557:ARG:CD	2:C:879:ARG:HG2	2.45	0.46
5:P:363:GLU:HA	5:P:367:MET:HE3	1.97	0.46
5:F:393:THR:HG21	9:F:773:HOH:O	2.14	0.46
3:D:1394:VAL:HG21	3:D:1397:LYS:NZ	2.30	0.46
2:C:571:LEU:HD13	2:C:669:GLY:H	1.79	0.46
3:N:18:ILE:HD12	3:N:518:PRO:CG	2.46	0.46
1:B:89:PHE:CD1	1:B:120:VAL:HG13	2.50	0.46
2:C:516:ARG:CD	3:D:1068:LEU:HD13	2.45	0.46
2:M:579:VAL:HG11	2:M:887:GLU:HG3	1.97	0.46
2:M:135:VAL:CG2	2:M:395:LYS:HG3	2.45	0.46
2:M:19:THR:HG21	2:M:125:GLY:HA3	1.97	0.46
3:N:1114:THR:HG22	3:N:1195:GLN:HB3	1.96	0.46
2:M:690:ILE:CG2	2:M:852:ILE:HG13	2.45	0.46
3:D:1124:GLN:HA	3:D:1125:PRO:HD3	1.73	0.46
3:N:1494:ALA:HB1	4:O:88:GLU:OE2	2.15	0.46
2:C:91:GLN:CD	2:C:117:HIS:HB3	2.36	0.46
3:D:531:ASP:C	3:D:533:GLY:N	2.67	0.46
3:D:633:VAL:HG22	3:D:635:PRO:HG3	1.97	0.46
3:N:1197:ARG:HB3	3:N:1396:GLU:CD	2.35	0.46
3:N:7:LYS:HB3	3:N:1458:GLU:OE1	2.15	0.46
3:N:104:PHE:CE2	3:N:1448:THR:HG23	2.50	0.46
3:D:668:PRO:HD2	3:D:672:ALA:CB	2.45	0.46
2:M:810:ASP:HA	2:M:811:PRO:HD3	1.79	0.46
3:N:548:ILE:HG23	9:N:2135:HOH:O	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:O:36:LYS:HD3	4:O:36:LYS:HA	1.63	0.46
3:N:1153:VAL:HG12	3:N:1155:VAL:CG2	2.46	0.46
3:D:586:ARG:HD2	9:D:2328:HOH:O	2.15	0.46
2:M:636:ALA:HB3	9:M:1680:HOH:O	2.14	0.46
2:C:154:ARG:HG2	9:C:9795:HOH:O	2.14	0.46
3:D:424:GLY:HA2	3:D:436:GLU:HA	1.97	0.46
3:N:427:VAL:HG21	3:N:435:VAL:HB	1.97	0.46
3:N:400:VAL:HA	3:N:442:ASN:O	2.15	0.46
2:M:1052:MET:HE1	9:M:1321:HOH:O	2.15	0.46
3:D:534:ARG:HG2	9:D:9708:HOH:O	2.15	0.46
3:D:96:ALA:HB3	9:D:9846:HOH:O	2.14	0.46
5:P:79:ASP:OD1	5:P:80:PRO:HD3	2.15	0.46
2:C:889:HIS:CE1	3:D:951:ILE:H	2.32	0.46
2:M:176:VAL:HG12	9:M:1933:HOH:O	2.15	0.46
2:C:126:SER:HB2	2:C:407:LYS:HE3	1.96	0.46
3:D:1065:LEU:HD11	3:D:1070:TYR:HA	1.97	0.46
2:M:1043:TYR:C	2:M:1045:ALA:H	2.18	0.46
2:M:753:ASP:N	2:M:791:ARG:HH12	2.12	0.46
2:M:690:ILE:HG23	2:M:852:ILE:HA	1.96	0.46
2:C:480:THR:HG22	2:C:482:GLU:N	2.29	0.46
3:N:1119:SER:HA	3:N:1186:VAL:O	2.14	0.46
3:N:1274:ILE:HD11	3:N:1334:GLN:NE2	2.30	0.46
3:N:969:ARG:HD2	9:N:9652:HOH:O	2.15	0.46
3:D:783:ARG:HG2	3:D:783:ARG:HH11	1.80	0.46
4:O:51:LEU:HD23	9:O:6827:HOH:O	2.15	0.46
3:D:1299:PHE:N	3:D:1299:PHE:CD2	2.84	0.46
3:D:864:VAL:HG12	3:D:865:THR:N	2.30	0.46
3:N:7:LYS:HD3	3:N:1456:LYS:HZ3	1.81	0.46
3:N:1000:THR:O	3:N:1003:VAL:HG22	2.15	0.46
2:M:1091:GLU:O	2:M:1094:ALA:HB3	2.16	0.46
1:L:70:GLY:HA2	9:L:3618:HOH:O	2.15	0.46
5:F:117:SER:OG	5:F:124:PRO:HG3	2.15	0.46
3:N:899:LEU:HD12	3:N:900:ILE:HG23	1.96	0.46
2:C:1040:LEU:HD21	2:C:1048:THR:HG22	1.96	0.46
1:K:64:GLU:HB2	9:K:7447:HOH:O	2.14	0.46
3:D:162:ARG:HE	3:D:434:ARG:NE	2.13	0.46
3:N:573:MET:HE2	9:N:9975:HOH:O	2.15	0.46
3:N:423:ASP:HB2	5:P:178:ARG:CD	2.42	0.46
2:C:437:ARG:HG2	2:C:467:ILE:O	2.15	0.46
5:F:192:LEU:O	5:F:192:LEU:HD23	2.15	0.46
2:M:164:PRO:HG2	9:M:1159:HOH:O	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:94:LEU:HA	9:K:6293:HOH:O	2.14	0.46
2:C:668:LEU:O	2:C:993:PHE:CZ	2.68	0.46
5:F:88:ILE:HB	5:F:193:ARG:NH1	2.31	0.46
2:M:577:PRO:HD2	2:M:580:MET:HG2	1.98	0.46
2:M:26:TYR:CE2	2:M:30:LEU:HD21	2.51	0.46
2:C:1071:ILE:HD13	3:D:655:PRO:HB3	1.97	0.46
3:D:637:LEU:HD11	3:D:642:CYS:N	2.31	0.46
2:M:1016:ILE:HG21	9:P:709:HOH:O	2.15	0.46
5:P:317:LEU:O	5:P:330:GLY:N	2.49	0.46
3:N:468:LEU:HD21	9:N:9382:HOH:O	2.15	0.46
2:M:694:LEU:CD1	2:M:868:ASP:HB3	2.46	0.46
4:E:63:TRP:O	4:E:67:GLU:HG3	2.15	0.46
3:D:1278:ASP:HB2	3:D:1318:TYR:HE1	1.80	0.46
3:D:111:LYS:HZ1	3:D:1452:ILE:HG21	1.80	0.46
3:N:417:PRO:HA	5:P:168:LYS:NZ	2.30	0.46
3:N:172:PRO:HA	3:N:173:PRO:HD3	1.63	0.46
2:M:56:GLU:HB2	2:M:64:LEU:HD23	1.97	0.46
1:A:23:PHE:CE1	1:A:211:LEU:HD23	2.50	0.46
1:A:91:ASN:O	1:A:94:LEU:HD12	2.14	0.46
5:F:205:ARG:HG3	5:F:251:ILE:HD13	1.97	0.46
3:N:861:GLN:N	3:N:861:GLN:CD	2.69	0.46
5:P:399:GLN:HB3	9:P:437:HOH:O	2.16	0.46
3:D:416:ALA:H	3:D:417:PRO:CD	2.28	0.46
1:A:108:GLU:HB2	9:A:426:HOH:O	2.14	0.46
1:B:1:MET:O	1:B:6:LEU:HD13	2.15	0.46
1:A:227:ASN:H	1:A:227:ASN:ND2	2.13	0.46
3:N:792:ILE:O	3:N:878:GLY:HA3	2.15	0.46
2:M:218:VAL:HG22	2:M:221:LEU:CD2	2.46	0.46
2:M:305:PRO:CB	2:M:308:ARG:HH21	2.27	0.46
3:N:424:GLY:HA2	3:N:436:GLU:HA	1.96	0.46
3:N:440:VAL:HG21	9:N:2386:HOH:O	2.15	0.46
3:D:474:GLU:O	3:D:478:LEU:HG	2.15	0.46
2:M:1075:ASP:OD1	4:O:28:GLN:HA	2.16	0.46
2:C:852:ILE:HD12	2:C:852:ILE:N	2.30	0.46
3:D:1166:LEU:CD1	3:D:1171:VAL:HG22	2.45	0.46
2:C:126:SER:CB	2:C:395:LYS:HD2	2.46	0.46
1:A:222:LEU:HD12	1:B:215:VAL:CB	2.43	0.46
3:N:1213:ARG:HB2	3:N:1214:PRO:CD	2.45	0.46
2:M:1034:GLU:HA	2:M:1037:VAL:HG23	1.98	0.46
1:L:19:GLU:HG3	1:L:201:THR:O	2.15	0.46
3:D:648:MET:HG2	3:D:652:LEU:HD22	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1235:GLN:C	3:D:1359:GLN:HE22	2.18	0.46
3:N:1123:PHE:CD1	3:N:1134:LEU:HA	2.51	0.46
1:L:185:ARG:HG3	1:L:190:THR:CG2	2.44	0.46
2:C:410:ILE:HD12	2:C:410:ILE:N	2.31	0.46
3:N:416:ALA:HB3	3:N:417:PRO:HD3	1.97	0.46
2:C:1033:GLY:O	2:C:1037:VAL:HG23	2.16	0.46
3:N:136:ASP:HB2	3:N:137:PRO:HD3	1.96	0.46
3:D:1007:VAL:CG2	3:D:1008:PHE:N	2.79	0.46
3:D:1496:GLU:HA	3:D:1499:ARG:NE	2.31	0.46
3:D:897:TRP:CZ2	3:D:902:LEU:HD21	2.50	0.46
1:K:227:ASN:HD22	1:K:227:ASN:H	1.62	0.46
1:A:211:LEU:HD12	1:A:211:LEU:O	2.15	0.46
2:M:564:MET:HG3	2:M:997:LEU:HD11	1.97	0.46
3:N:600:LEU:HD23	3:N:600:LEU:N	2.31	0.46
9:C:9488:HOH:O	3:D:853:VAL:HG12	2.14	0.46
3:D:1490:LYS:HA	9:D:9819:HOH:O	2.15	0.46
1:L:211:LEU:O	1:L:214:ALA:HB3	2.15	0.46
2:C:547:ILE:HB	2:C:550:LEU:HD13	1.96	0.46
2:M:293:PHE:CG	2:M:293:PHE:O	2.68	0.46
2:C:957:LYS:HA	9:C:9426:HOH:O	2.15	0.46
5:P:132:ARG:HE	5:P:184:ARG:HH12	1.63	0.46
3:N:192:ALA:HB3	9:N:9164:HOH:O	2.15	0.46
5:P:119:ILE:HD13	5:P:170:HIS:CG	2.49	0.46
5:F:321:ILE:HG12	5:F:327:SER:O	2.16	0.46
3:D:493:ARG:CZ	3:D:1388:ARG:HB3	2.45	0.46
5:F:209:PHE:CE2	5:F:213:ILE:HD11	2.51	0.46
3:D:554:LEU:HG	9:D:9846:HOH:O	2.15	0.46
2:C:884:GLN:HG3	2:C:885:ILE:CD1	2.46	0.46
3:D:1140:ILE:CG2	3:D:1175:ILE:HD11	2.46	0.46
1:B:91:ASN:O	1:B:94:LEU:HD12	2.16	0.46
2:M:549:PHE:CE2	2:M:886:LEU:HD22	2.51	0.46
2:M:577:PRO:HG3	2:M:993:PHE:CZ	2.50	0.46
3:D:792:ILE:HD11	3:D:881:LEU:HD23	1.98	0.46
2:M:139:GLN:NE2	2:M:418:LEU:HD13	2.30	0.46
2:C:41:ASN:HB3	9:C:9884:HOH:O	2.14	0.46
2:C:42:VAL:HG21	9:C:9398:HOH:O	2.14	0.46
2:M:752:GLY:O	3:N:679:ARG:HG2	2.15	0.46
1:K:206:THR:H	1:K:209:GLU:CD	2.19	0.46
2:C:405:ARG:HH21	2:C:409:ARG:HH22	1.64	0.46
3:N:1232:PRO:HB3	3:N:1361:VAL:CG2	2.45	0.46
3:D:491:LYS:HD3	3:D:492:ALA:N	2.31	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:E:59:ASN:ND2	9:E:126:HOH:O	2.49	0.46
2:C:603:VAL:HG23	2:C:647:GLN:H	1.80	0.46
5:P:142:ARG:NH1	5:P:150:THR:HG21	2.30	0.46
3:N:608:SER:HA	9:N:2415:HOH:O	2.15	0.46
1:K:71:VAL:HB	9:K:6766:HOH:O	2.15	0.46
5:P:148:LYS:HB2	9:P:499:HOH:O	2.16	0.46
2:C:22:GLN:O	2:C:121:MET:HE1	2.15	0.46
3:D:1155:VAL:HG12	3:D:1156:LEU:HG	1.98	0.46
3:D:834:THR:HA	3:D:838:ARG:HE	1.80	0.46
2:C:34:VAL:HB	2:C:38:LYS:HG3	1.97	0.46
3:N:937:TYR:O	3:N:941:PHE:HD1	1.99	0.46
1:L:74:ASP:O	1:L:78:ILE:HG13	2.16	0.46
1:B:100:LEU:HB2	1:B:115:LEU:HD23	1.98	0.46
2:C:703:ILE:CD1	2:C:830:LYS:HG2	2.46	0.46
3:D:1353:GLN:HB3	3:D:1357:ARG:NE	2.31	0.46
2:C:769:PRO:HD3	9:C:9528:HOH:O	2.14	0.46
2:C:1038:TRP:HA	2:C:1041:GLU:HB2	1.98	0.46
3:N:1161:GLU:OE2	3:N:1164:ARG:HB2	2.16	0.46
3:N:1263:PHE:CE2	3:N:1371:VAL:HG11	2.51	0.46
3:N:422:ALA:O	3:N:427:VAL:HG21	2.15	0.46
3:D:1264:GLU:OE2	3:D:1424:VAL:N	2.47	0.46
2:C:724:ARG:HD2	2:C:740:GLU:HA	1.97	0.46
3:D:530:VAL:HB	3:D:534:ARG:CB	2.35	0.46
3:D:552:ASN:HA	3:D:555:LYS:HD2	1.97	0.46
3:D:1038:LEU:O	3:D:1060:SER:HB2	2.16	0.46
3:D:827:ILE:HG23	3:D:837:GLY:HA2	1.98	0.46
2:C:235:LEU:HA	9:C:2185:HOH:O	2.15	0.46
2:C:607:ASP:HB2	2:C:610:ARG:HG3	1.97	0.46
2:C:586:ARG:HG2	9:C:9527:HOH:O	2.16	0.46
2:M:326:ASP:OD1	2:M:326:ASP:N	2.49	0.46
2:M:1049:LEU:O	2:M:1049:LEU:HD23	2.16	0.46
1:A:42:ARG:HH12	2:C:857:ASP:CB	2.24	0.46
2:M:1090:LYS:HG2	2:M:1112:PHE:HZ	1.81	0.46
3:N:484:PRO:HB3	9:N:2002:HOH:O	2.15	0.46
3:N:1266:ARG:O	3:N:1268:PRO:HD3	2.16	0.46
2:C:824:ARG:HH11	2:C:824:ARG:HG2	1.81	0.46
1:A:178:ALA:HB1	9:A:479:HOH:O	2.16	0.46
3:N:1123:PHE:HB3	3:N:1133:ARG:O	2.14	0.46
1:K:58:ILE:HD12	1:K:138:LEU:HD11	1.96	0.46
4:E:37:ASN:HA	4:E:93:TYR:CZ	2.51	0.46
3:N:1341:PRO:O	3:N:1344:VAL:HG23	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:591:VAL:CG1	3:D:597:ASP:HA	2.46	0.46
3:N:407:VAL:HG23	3:N:408:GLU:HG3	1.98	0.46
1:A:209:GLU:HG3	9:A:478:HOH:O	2.15	0.46
3:N:1087:ARG:HD2	3:N:1234:THR:O	2.15	0.46
3:N:33:ASN:HD21	5:P:259:ARG:HG2	1.81	0.46
3:N:473:LEU:HD21	3:N:495:ARG:CZ	2.46	0.46
5:F:287:THR:C	5:F:289:GLU:H	2.19	0.46
2:C:961:GLU:HG2	9:C:9189:HOH:O	2.16	0.46
4:O:45:ARG:H	4:O:45:ARG:HD2	1.80	0.46
1:K:211:LEU:O	1:K:214:ALA:HB3	2.15	0.46
5:F:75:ILE:HG22	9:F:491:HOH:O	2.15	0.46
1:A:115:LEU:HD12	9:A:323:HOH:O	2.16	0.46
3:N:209:ARG:HH22	3:N:397:LYS:HG3	1.79	0.46
4:E:50:THR:HG21	9:E:157:HOH:O	2.16	0.46
5:P:218:GLN:HA	5:P:221:ILE:CD1	2.46	0.46
3:D:820:GLU:HG3	3:D:836:VAL:CG1	2.45	0.46
3:D:53:ILE:HD12	9:D:9779:HOH:O	2.16	0.46
1:B:68:ILE:O	1:B:71:VAL:HB	2.16	0.46
3:N:958:GLU:HA	9:N:9370:HOH:O	2.15	0.46
1:B:162:ILE:HB	9:B:452:HOH:O	2.16	0.46
2:M:305:PRO:HB3	2:M:308:ARG:HH21	1.81	0.46
3:N:546:ARG:CZ	3:N:546:ARG:HB3	2.46	0.46
2:M:950:LEU:HD13	9:M:1413:HOH:O	2.15	0.46
2:C:1115:LEU:HD23	3:D:85:VAL:N	2.31	0.46
5:F:181:GLU:O	5:F:184:ARG:HB3	2.15	0.46
4:E:18:ARG:HB3	9:E:128:HOH:O	2.15	0.46
2:C:136:ILE:HD13	2:C:392:SER:HB2	1.96	0.46
2:C:1007:ALA:HB1	3:D:652:LEU:HD13	1.98	0.46
2:C:1105:LYS:O	2:C:1107:ASN:N	2.49	0.46
2:M:668:LEU:H	2:M:668:LEU:HD12	1.80	0.46
3:D:737:ASN:HB3	9:D:2458:HOH:O	2.16	0.46
2:C:115:LEU:HB3	9:C:2035:HOH:O	2.15	0.46
2:M:1105:LYS:O	2:M:1107:ASN:N	2.49	0.46
2:M:420:ARG:CG	2:M:422:ARG:HG2	2.46	0.46
3:N:1320:GLU:H	3:N:1323:GLN:NE2	2.13	0.46
5:P:277:GLN:O	5:P:280:GLN:HB3	2.15	0.46
3:D:129:PHE:CE2	3:D:587:ARG:HD3	2.50	0.46
3:N:668:PRO:HD2	3:N:672:ALA:CB	2.45	0.46
3:N:716:PHE:HD1	9:N:9949:HOH:O	1.99	0.46
1:B:1:MET:HG3	9:B:318:HOH:O	2.15	0.46
1:K:149:GLY:O	1:K:171:PHE:HB2	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1281:VAL:HG21	3:D:1313:VAL:HG21	1.98	0.46
2:M:247:PRO:HB3	9:M:1247:HOH:O	2.15	0.46
2:C:676:ILE:HG21	2:C:988:VAL:HG22	1.97	0.46
3:N:601:ARG:HH12	3:N:606:ILE:HA	1.78	0.46
2:C:108:ILE:HD11	2:C:365:ASP:OD2	2.16	0.46
3:N:432:TYR:HA	3:N:448:GLU:O	2.15	0.46
3:D:103:TRP:NE1	3:D:604:THR:OG1	2.49	0.46
2:C:775:ARG:NH2	2:C:782:ALA:HB1	2.17	0.46
3:N:671:LYS:HD2	3:N:675:ARG:NH2	2.31	0.46
3:D:148:GLU:CB	3:D:151:GLN:HB2	2.36	0.46
3:N:462:GLN:CA	3:N:513:ILE:HD13	2.41	0.46
3:N:944:THR:HA	9:N:9416:HOH:O	2.16	0.46
3:N:806:PHE:CG	3:N:806:PHE:O	2.68	0.46
2:M:139:GLN:O	2:M:334:ARG:N	2.47	0.46
1:K:143:ARG:HD3	1:K:144:VAL:H	1.80	0.46
1:K:206:THR:CG2	1:K:209:GLU:HG3	2.44	0.46
2:C:86:LYS:HE2	2:C:813:VAL:CG1	2.40	0.46
3:D:1351:GLU:O	3:D:1354:LYS:HB2	2.15	0.46
3:N:1394:VAL:HB	3:N:1397:LYS:HD2	1.97	0.46
2:C:1035:MET:HB3	3:D:707:THR:O	2.15	0.46
1:B:84:GLU:CG	1:B:127:LEU:HD11	2.46	0.46
2:C:654:LEU:HD13	2:C:664:GLY:N	2.31	0.46
2:M:1017:THR:HG21	5:P:331:ASP:CG	2.37	0.46
3:D:957:PRO:CG	3:D:1007:VAL:HG12	2.45	0.46
3:D:1496:GLU:HA	3:D:1499:ARG:CD	2.46	0.46
3:D:724:GLN:HE21	3:D:725:SER:N	2.13	0.46
3:N:688:TRP:HA	3:N:688:TRP:CE3	2.51	0.46
3:D:759:ALA:HA	3:D:763:MET:HE2	1.97	0.46
3:N:1490:LYS:HB3	9:N:9829:HOH:O	2.16	0.46
1:K:41:ARG:HG3	1:K:177:VAL:HB	1.96	0.46
2:M:492:ASP:HB3	2:M:518:LYS:HG2	1.97	0.46
2:C:956:GLY:HA2	9:C:9318:HOH:O	2.16	0.46
3:D:671:LYS:N	9:D:9143:HOH:O	2.48	0.46
1:B:16:GLN:HG2	9:B:527:HOH:O	2.14	0.46
4:E:77:GLU:HB2	9:E:179:HOH:O	2.14	0.46
3:N:956:ILE:HG12	3:N:1039:CYS:HA	1.97	0.46
2:C:1095:LEU:CD1	3:D:607:LEU:HD13	2.46	0.46
3:D:83:SER:O	3:D:86:ARG:HB3	2.16	0.46
3:D:493:ARG:NH1	3:D:1390:LEU:H	2.13	0.46
5:F:97:GLU:H	5:F:97:GLU:CD	2.19	0.46
3:N:1011:PHE:HB3	3:N:1021:TYR:CD1	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1406:ARG:HG3	3:N:1406:ARG:NH1	2.30	0.46
2:C:395:LYS:HE3	2:C:407:LYS:HE3	1.96	0.46
3:N:707:THR:HG22	9:N:9244:HOH:O	2.16	0.46
1:L:101:LEU:HD12	1:L:114:PHE:CD1	2.51	0.46
3:N:1465:ASN:HD21	3:N:1470:ARG:NH1	2.14	0.46
2:M:54:ILE:HG23	2:M:54:ILE:O	2.15	0.46
2:C:1100:GLN:HB3	9:C:9265:HOH:O	2.16	0.46
2:M:707:ARG:HH21	2:M:709:GLU:CB	2.28	0.46
1:B:175:ARG:NH1	9:B:536:HOH:O	2.49	0.46
2:M:251:ASP:HB2	9:M:1553:HOH:O	2.16	0.46
3:D:126:VAL:O	3:D:132:TYR:CD1	2.69	0.46
3:N:624:ASP:HB3	3:N:625:TYR:CD1	2.51	0.46
1:A:111:ALA:HB3	1:A:124:ASN:O	2.16	0.46
1:L:129:ILE:HA	9:L:3134:HOH:O	2.15	0.46
2:M:724:ARG:HB2	2:M:740:GLU:HA	1.98	0.46
1:L:90:LEU:HG	1:L:91:ASN:HD22	1.81	0.46
3:N:9:ARG:HA	3:N:1455:LYS:O	2.15	0.46
2:C:118:ILE:HG22	2:C:382:ILE:HD13	1.97	0.46
1:A:157:GLY:HA3	9:C:2280:HOH:O	2.16	0.46
3:N:1173:LEU:HD23	3:N:1174:LEU:N	2.31	0.46
2:C:432:ARG:HG2	2:C:432:ARG:H	1.48	0.45
2:C:485:TYR:HE2	9:C:2046:HOH:O	1.99	0.45
3:N:87:ARG:HG3	3:N:88:TYR:CD2	2.51	0.45
5:F:208:SER:HB3	9:F:562:HOH:O	2.15	0.45
5:F:208:SER:HB2	5:F:211:ASP:OD1	2.16	0.45
3:D:558:LEU:HD13	5:F:145:PRO:HB3	1.98	0.45
2:C:701:THR:HA	2:C:831:ARG:O	2.14	0.45
1:A:14:ARG:NH1	1:A:24:VAL:HG23	2.31	0.45
2:C:577:PRO:HA	2:C:671:ASN:OD1	2.17	0.45
3:N:948:THR:O	3:N:1019:PRO:HG2	2.16	0.45
2:M:141:HIS:N	2:M:332:ARG:O	2.48	0.45
3:N:1109:GLU:OE1	3:N:1201:CYS:HB2	2.16	0.45
1:L:89:PHE:CD1	1:L:89:PHE:N	2.84	0.45
3:N:10:ILE:HG22	3:N:1451:ALA:HA	1.98	0.45
2:M:690:ILE:HG23	2:M:852:ILE:HG13	1.98	0.45
3:D:1196:THR:HG23	9:D:2094:HOH:O	2.15	0.45
5:F:359:SER:OG	5:F:360:LYS:HE3	2.17	0.45
1:K:91:ASN:HA	9:K:5415:HOH:O	2.15	0.45
3:D:3:LYS:N	3:D:3:LYS:HD3	2.31	0.45
3:D:1087:ARG:HG2	3:D:1087:ARG:HH11	1.81	0.45
2:C:471:TYR:CE2	2:C:496:ILE:HG21	2.50	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:O:5:GLY:HA3	4:O:8:LYS:HD2	1.97	0.45
3:N:799:LYS:HA	9:N:9285:HOH:O	2.15	0.45
3:D:668:PRO:HG2	9:F:682:HOH:O	2.16	0.45
3:N:411:THR:HG21	9:N:9383:HOH:O	2.16	0.45
1:A:216:GLU:HG3	9:A:462:HOH:O	2.16	0.45
3:D:1114:THR:O	3:D:1114:THR:HG23	2.16	0.45
3:N:413:ASP:OD1	3:N:419:ASP:HA	2.16	0.45
4:E:43:GLU:CD	4:E:44:GLU:H	2.18	0.45
2:M:595:LEU:HD12	9:M:1510:HOH:O	2.15	0.45
1:K:219:ARG:HH11	1:K:219:ARG:HB2	1.82	0.45
1:K:219:ARG:HD3	9:K:1878:HOH:O	2.16	0.45
3:D:396:VAL:HG23	9:D:9631:HOH:O	2.16	0.45
3:D:87:ARG:HG3	3:D:88:TYR:CD2	2.51	0.45
3:D:90:MET:HE1	3:D:518:PRO:HB3	1.98	0.45
2:C:693:GLU:OE1	2:C:696:LYS:HD2	2.17	0.45
3:N:52:PRO:HG2	3:N:80:VAL:HG22	1.97	0.45
3:D:1476:THR:C	3:D:1478:SER:H	2.20	0.45
3:N:18:ILE:HD13	3:N:21:TRP:CZ3	2.51	0.45
2:M:6:PHE:CD1	2:M:909:ALA:HB2	2.51	0.45
2:M:318:PRO:HD3	9:M:1256:HOH:O	2.15	0.45
3:N:141:ILE:HD13	3:N:450:TYR:CB	2.45	0.45
2:C:1052:MET:HG3	3:D:623:VAL:CG2	2.45	0.45
1:A:218:LEU:HD23	1:B:222:LEU:HD22	1.98	0.45
3:N:1211:MET:HG3	3:N:1212:ALA:N	2.32	0.45
2:C:1001:VAL:HG22	9:C:9943:HOH:O	2.17	0.45
3:N:1137:ARG:HH21	3:N:1172:HIS:CE1	2.33	0.45
3:N:1465:ASN:OD1	3:N:1473:PRO:HG3	2.15	0.45
3:D:1495:ILE:HG12	4:E:80:VAL:CG1	2.46	0.45
2:C:543:ASN:HD22	2:C:543:ASN:C	2.20	0.45
2:M:440:PRO:HD2	2:M:540:PHE:HD2	1.80	0.45
1:L:26:GLU:HG3	1:L:194:LYS:HZ2	1.81	0.45
3:N:1243:THR:HB	3:N:1253:THR:HG22	1.97	0.45
5:F:278:LEU:HB3	5:F:286:PRO:CG	2.46	0.45
3:D:702:LEU:HB3	3:D:745:MET:HE3	1.97	0.45
3:N:705:ALA:CB	3:N:706:PRO:HD3	2.44	0.45
1:B:30:ARG:NH2	2:C:854:PRO:HG3	2.29	0.45
1:L:84:GLU:CD	3:N:844:ALA:HB1	2.35	0.45
2:C:1037:VAL:HG13	2:C:1049:LEU:HD11	1.98	0.45
3:N:637:LEU:CD1	3:N:641:GLN:HB2	2.46	0.45
2:C:489:THR:HG22	9:C:2165:HOH:O	2.16	0.45
5:F:238:TYR:O	5:F:242:TRP:HD1	2.00	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:189:ARG:HA	9:C:9211:HOH:O	2.17	0.45
3:N:1107:VAL:HA	3:N:1200:VAL:O	2.16	0.45
2:M:775:ARG:HD2	2:M:775:ARG:HA	1.77	0.45
4:O:4:PRO:HB3	9:O:2119:HOH:O	2.15	0.45
1:B:133:GLU:OE1	1:B:134:GLU:HG2	2.16	0.45
3:D:436:GLU:HG3	9:D:9955:HOH:O	2.15	0.45
3:N:601:ARG:HG2	3:N:606:ILE:HD13	1.98	0.45
3:N:1031:ASN:O	3:N:1035:ILE:HG12	2.16	0.45
3:N:213:VAL:HG22	3:N:214:GLU:N	2.29	0.45
3:D:171:LEU:C	3:D:171:LEU:HD12	2.37	0.45
2:M:721:ARG:HH22	2:M:785:VAL:HG21	1.79	0.45
3:D:1462:LEU:N	3:D:1462:LEU:HD23	2.32	0.45
2:C:578:VAL:HG23	2:C:579:VAL:HG12	1.98	0.45
2:C:605:LYS:HE2	2:C:610:ARG:HH12	1.82	0.45
3:D:1057:VAL:HA	3:D:1069:GLU:CD	2.36	0.45
1:B:110:LYS:NZ	1:B:112:ARG:HD2	2.31	0.45
1:A:57:TYR:CE2	1:A:59:GLU:HG2	2.52	0.45
2:M:1111:ILE:H	2:M:1111:ILE:CD1	2.19	0.45
2:C:25:SER:CB	2:C:335:THR:HB	2.46	0.45
2:C:182:VAL:HG12	2:C:193:LEU:HD13	1.98	0.45
2:M:449:ILE:C	2:M:451:LEU:H	2.20	0.45
2:M:586:ARG:HG2	9:M:2184:HOH:O	2.15	0.45
3:D:844:ALA:O	3:D:867:ARG:HD2	2.17	0.45
2:M:64:LEU:HD12	2:M:65:VAL:N	2.31	0.45
1:A:211:LEU:O	1:A:214:ALA:HB3	2.16	0.45
3:N:1293:PHE:CZ	3:N:1302:GLU:HG3	2.52	0.45
1:L:92:PRO:HD3	9:L:1481:HOH:O	2.15	0.45
3:D:1094:LEU:HG	3:D:1230:GLY:HA2	1.97	0.45
2:M:275:TYR:OH	2:M:487:THR:HG21	2.16	0.45
2:C:750:LYS:HG3	2:C:751:PRO:HD2	1.97	0.45
9:L:6051:HOH:O	2:M:979:THR:HG22	2.17	0.45
3:D:1483:PHE:HB3	9:D:9789:HOH:O	2.16	0.45
1:L:187:GLY:HA2	9:N:9715:HOH:O	2.16	0.45
3:D:434:ARG:HB2	3:D:447:VAL:CG2	2.47	0.45
2:M:208:ALA:HB1	2:M:218:VAL:HG13	1.99	0.45
5:P:160:ASP:O	5:P:164:LYS:HG3	2.16	0.45
3:D:23:TYR:CZ	3:D:89:ARG:HG2	2.51	0.45
5:F:273:ARG:O	5:F:276:ARG:HB2	2.17	0.45
5:P:122:LEU:N	9:P:756:HOH:O	2.38	0.45
2:C:626:ARG:NH2	9:C:9247:HOH:O	2.49	0.45
2:M:500:ASN:HD21	3:N:1067:VAL:CG2	2.30	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:428:LYS:HB3	3:N:450:TYR:HE1	1.81	0.45
3:N:428:LYS:HG2	3:N:451:ASP:OD1	2.17	0.45
2:C:1056:LYS:NZ	3:D:749:VAL:O	2.48	0.45
1:A:218:LEU:HD23	1:B:222:LEU:CD2	2.47	0.45
1:B:48:ILE:HG22	1:B:173:PRO:HD2	1.97	0.45
1:K:47:SER:HB3	1:K:217:ILE:HD13	1.97	0.45
3:N:545:ARG:HH11	3:N:545:ARG:HB3	1.81	0.45
2:M:690:ILE:CD1	2:M:833:LEU:HD23	2.47	0.45
3:N:1433:SER:HB2	9:N:9765:HOH:O	2.15	0.45
3:N:1495:ILE:HA	4:O:88:GLU:OE1	2.17	0.45
9:N:9766:HOH:O	5:P:264:MET:HE1	2.15	0.45
1:K:102:LYS:HD2	1:K:139:ASN:ND2	2.31	0.45
3:N:704:ARG:HD2	3:N:705:ALA:H	1.81	0.45
3:N:656:PHE:HB3	3:N:694:VAL:HG11	1.98	0.45
3:D:783:ARG:HG2	3:D:783:ARG:NH1	2.31	0.45
4:E:86:GLN:HB2	9:E:175:HOH:O	2.15	0.45
2:M:61:LYS:HG2	9:M:2301:HOH:O	2.16	0.45
1:B:132:LEU:HD22	1:B:138:LEU:HD22	1.98	0.45
2:M:76:PRO:HD2	9:M:1533:HOH:O	2.17	0.45
3:D:126:VAL:O	3:D:132:TYR:HD1	2.00	0.45
2:M:69:LEU:HB2	2:M:97:ARG:HB2	1.98	0.45
2:C:953:VAL:HG11	2:C:966:LEU:HD22	1.98	0.45
3:D:850:LEU:O	3:D:853:VAL:HB	2.16	0.45
2:M:320:HIS:N	2:M:320:HIS:CD2	2.84	0.45
3:N:507:ASN:HA	9:N:9317:HOH:O	2.16	0.45
5:P:94:LEU:HD22	5:P:97:GLU:HG2	1.98	0.45
3:N:187:LYS:CE	3:N:213:VAL:HG12	2.33	0.45
2:C:65:VAL:O	2:C:101:ILE:HG12	2.15	0.45
5:P:369:LEU:O	5:P:373:LYS:HB2	2.17	0.45
2:M:551:GLU:HB3	2:M:906:PHE:CD2	2.45	0.45
2:M:578:VAL:HG13	2:M:671:ASN:OD1	2.16	0.45
3:D:72:VAL:HG22	3:D:73:CYS:N	2.32	0.45
4:O:47:LYS:HB2	9:O:3286:HOH:O	2.16	0.45
4:O:58:PRO:HB2	9:O:3494:HOH:O	2.16	0.45
3:N:37:LEU:HD11	3:N:529:GLN:HE21	1.82	0.45
2:C:1039:ALA:O	2:C:1043:TYR:HD1	1.99	0.45
2:M:710:ILE:HB	2:M:790:LEU:HD22	1.99	0.45
1:K:156:HIS:CD2	1:K:157:GLY:N	2.85	0.45
1:L:26:GLU:HB3	1:L:194:LYS:HG3	1.98	0.45
3:N:880:ILE:O	3:N:883:ALA:HB3	2.17	0.45
2:C:640:ARG:HB2	2:C:642:ARG:NH2	2.27	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:785:ILE:HG22	3:N:789:LEU:HD12	1.98	0.45
2:C:841:ASN:N	2:C:841:ASN:HD22	2.14	0.45
2:C:253:ALA:O	2:C:256:TYR:HB2	2.16	0.45
3:N:209:ARG:NH2	3:N:397:LYS:HG3	2.32	0.45
1:L:90:LEU:HD23	9:L:3633:HOH:O	2.16	0.45
1:L:208:LEU:HB2	9:L:1470:HOH:O	2.17	0.45
3:D:653:PHE:CD1	3:D:653:PHE:N	2.84	0.45
5:P:287:THR:C	5:P:289:GLU:H	2.20	0.45
3:N:770:LEU:HD22	3:N:777:PRO:HA	1.97	0.45
2:M:797:GLY:HA2	9:M:1180:HOH:O	2.16	0.45
3:N:794:GLN:HG2	3:N:905:PRO:CG	2.47	0.45
2:M:302:VAL:C	2:M:305:PRO:HD2	2.37	0.45
3:D:23:TYR:HB2	3:D:49:ILE:O	2.16	0.45
2:C:284:ARG:HG2	2:C:285:LEU:H	1.81	0.45
3:N:85:VAL:HG12	3:N:89:ARG:NE	2.32	0.45
3:D:796:ARG:CG	3:D:828:LYS:HD2	2.39	0.45
2:M:358:ARG:HB3	2:M:371:LYS:O	2.17	0.45
1:B:110:LYS:HZ3	1:B:112:ARG:HD2	1.82	0.45
3:N:1189:ARG:HB3	3:N:1204:CYS:HA	1.98	0.45
2:M:791:ARG:CZ	2:M:791:ARG:HB3	2.46	0.45
3:N:1140:ILE:HG21	3:N:1175:ILE:HD11	1.97	0.45
1:K:46:SER:HB3	2:M:856:GLU:CG	2.46	0.45
3:D:527:MET:HE1	5:F:258:ILE:HD11	1.98	0.45
3:N:161:LEU:CD1	3:N:452:ILE:HD13	2.47	0.45
3:D:1259:VAL:O	3:D:1263:PHE:HD1	2.00	0.45
3:D:1271:LYS:HG2	9:D:2058:HOH:O	2.15	0.45
2:M:31:GLN:HG2	2:M:34:VAL:CG2	2.44	0.45
3:N:882:PHE:O	3:N:886:VAL:HG23	2.16	0.45
2:M:244:PRO:CD	2:M:245:GLY:H	2.29	0.45
3:D:1187:PRO:HG3	9:D:9184:HOH:O	2.17	0.45
1:K:66:SER:O	1:K:75:VAL:HG23	2.16	0.45
2:M:918:LEU:HD23	2:M:967:PHE:O	2.16	0.45
3:N:431:VAL:HA	9:N:2074:HOH:O	2.16	0.45
1:A:89:PHE:HB2	1:A:94:LEU:HD13	1.97	0.45
3:D:134:VAL:HG12	3:D:152:LEU:HB3	1.98	0.45
2:M:1044:GLY:HA3	4:O:17:TYR:CD1	2.52	0.45
3:D:853:VAL:HA	3:D:858:VAL:O	2.17	0.45
3:D:882:PHE:O	3:D:886:VAL:HG23	2.16	0.45
2:M:742:VAL:HG12	9:M:2260:HOH:O	2.17	0.45
3:N:1353:GLN:HG2	3:N:1368:ILE:HD12	1.97	0.45
2:C:440:PRO:HG2	2:C:441:VAL:HG23	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:269:LEU:HD11	9:C:9442:HOH:O	2.15	0.45
3:N:1299:PHE:HB2	9:N:9478:HOH:O	2.15	0.45
1:L:73:GLU:OE1	1:L:130:ALA:HA	2.16	0.45
3:N:1390:LEU:HD22	9:N:9252:HOH:O	2.17	0.45
2:M:430:VAL:HG13	2:M:430:VAL:O	2.17	0.45
4:E:84:ARG:O	4:E:84:ARG:HG3	2.16	0.45
3:N:491:LYS:HB2	9:N:2260:HOH:O	2.16	0.45
2:C:509:ALA:HB2	9:C:9210:HOH:O	2.16	0.45
3:N:195:VAL:HB	3:N:205:TYR:HD2	1.82	0.45
3:D:493:ARG:HH11	3:D:1390:LEU:HB2	1.82	0.45
3:D:171:LEU:HB2	3:D:390:PRO:CA	2.45	0.45
3:D:215:TYR:HD1	9:D:9423:HOH:O	2.00	0.45
2:M:783:ARG:HE	2:M:785:VAL:HG11	1.82	0.45
3:D:553:ARG:HD2	3:D:570:GLU:OE2	2.17	0.45
5:F:200:LYS:HD2	5:F:209:PHE:HZ	1.79	0.45
2:C:630:ARG:HH22	2:C:707:ARG:CA	2.29	0.45
2:C:798:GLY:HA3	2:C:828:ALA:O	2.17	0.45
1:A:30:ARG:HH12	2:C:938:LYS:HZ3	1.62	0.45
3:D:1026:SER:C	3:D:1028:ALA:H	2.18	0.45
5:F:306:GLU:O	5:F:310:ILE:HG13	2.17	0.45
3:N:18:ILE:HG21	3:N:516:ALA:O	2.17	0.45
5:P:303:ARG:HB3	9:P:543:HOH:O	2.17	0.45
1:B:89:PHE:HD1	1:B:120:VAL:HG13	1.81	0.45
2:M:571:LEU:CD2	2:M:669:GLY:HA2	2.47	0.45
2:M:565:GLN:HG2	2:M:995:MET:HE1	1.97	0.45
2:C:1043:TYR:C	2:C:1045:ALA:H	2.19	0.45
2:C:815:LEU:HA	9:C:9978:HOH:O	2.16	0.45
1:L:222:LEU:O	1:L:225:PHE:HD1	2.00	0.45
2:C:1105:LYS:C	2:C:1107:ASN:HD22	2.19	0.45
3:D:884:ARG:HB2	9:D:2325:HOH:O	2.16	0.45
3:N:216:VAL:HA	3:N:389:GLU:OE2	2.16	0.45
3:D:2:LYS:HB3	3:D:3:LYS:HD3	1.98	0.45
2:M:1002:GLU:HG3	2:M:1002:GLU:H	1.54	0.45
2:M:602:GLU:HA	2:M:647:GLN:O	2.17	0.45
2:M:254:VAL:HG11	9:M:1962:HOH:O	2.17	0.45
3:N:776:GLU:OE1	3:N:912:LYS:HE2	2.17	0.45
2:C:118:ILE:HG22	2:C:382:ILE:HG21	1.99	0.45
2:C:1104:GLU:CD	2:C:1104:GLU:H	2.20	0.45
3:D:112:ILE:HD12	3:D:112:ILE:C	2.37	0.45
3:N:563:PRO:HG2	3:N:566:ILE:HB	1.99	0.45
3:N:601:ARG:HG2	3:N:606:ILE:CD1	2.47	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1434:TRP:CZ3	3:D:1455:LYS:HB3	2.52	0.45
3:D:23:TYR:O	3:D:49:ILE:HG23	2.17	0.45
3:N:671:LYS:NZ	3:N:675:ARG:NE	2.60	0.45
2:C:274:ARG:CG	2:C:285:LEU:HD22	2.47	0.45
2:M:1096:ALA:HB1	3:N:13:ALA:HB3	1.98	0.45
1:A:26:GLU:CG	1:A:194:LYS:HD3	2.47	0.45
1:B:206:THR:HG22	1:B:209:GLU:H	1.82	0.45
3:D:1394:VAL:HG21	3:D:1397:LYS:HZ2	1.82	0.45
2:C:141:HIS:HB3	2:C:418:LEU:HG	1.97	0.45
2:C:50:GLU:OE2	2:C:345:ARG:HD3	2.16	0.45
2:C:611:ILE:HG22	2:C:613:VAL:HG13	1.99	0.45
2:C:626:ARG:CB	2:C:639:GLN:HE21	2.30	0.45
3:N:781:PRO:HB2	3:N:911:LEU:HD23	1.99	0.45
3:D:739:ASP:O	3:D:743:ASP:OD1	2.35	0.45
2:M:402:SER:HB2	2:M:566:THR:HA	1.98	0.45
2:C:183:SER:HB2	2:C:190:LYS:HD3	1.99	0.45
2:M:601:GLY:HA3	2:M:615:TYR:HA	1.98	0.45
2:C:1008:ARG:NH2	2:C:1012:PRO:HD2	2.32	0.45
2:C:732:ALA:HB3	9:C:9249:HOH:O	2.17	0.45
1:K:132:LEU:HD12	1:K:132:LEU:N	2.32	0.45
1:A:1:MET:O	1:A:6:LEU:HB2	2.16	0.45
3:D:1183:ILE:N	3:D:1183:ILE:HD12	2.31	0.45
2:M:143:SER:OG	2:M:276:LYS:HE2	2.16	0.45
3:D:616:GLN:NE2	3:D:619:LEU:HB3	2.32	0.45
2:M:17:PRO:HB2	9:M:1925:HOH:O	2.16	0.45
2:C:44:ILE:HG23	2:C:344:PHE:CE1	2.52	0.45
2:M:928:LYS:HD2	9:M:2244:HOH:O	2.16	0.45
3:N:768:ASN:HD22	3:N:768:ASN:N	2.15	0.45
3:N:768:ASN:N	3:N:768:ASN:ND2	2.65	0.45
2:M:923:GLU:HA	2:M:923:GLU:OE2	2.16	0.45
1:A:100:LEU:HD21	1:A:141:GLU:HG2	1.97	0.45
2:M:442:GLU:CD	2:M:454:SER:HB2	2.37	0.45
5:F:102:LEU:CD1	5:F:187:LEU:HG	2.47	0.45
3:N:820:GLU:CG	3:N:836:VAL:HG11	2.46	0.45
2:C:357:GLU:O	2:C:360:LEU:HG	2.17	0.45
1:L:173:PRO:O	1:L:201:THR:HG23	2.16	0.45
3:N:1171:VAL:HG12	3:N:1171:VAL:O	2.17	0.45
2:C:402:SER:OG	2:C:566:THR:HG22	2.16	0.45
1:L:186:LEU:HD11	9:L:2277:HOH:O	2.16	0.45
1:B:124:ASN:OD1	1:B:127:LEU:HD13	2.17	0.45
3:D:473:LEU:HD21	3:D:495:ARG:HH21	1.78	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:46:SER:O	1:B:148:VAL:HB	2.16	0.45
5:F:421:PHE:C	5:F:423:ASP:N	2.69	0.45
3:D:1155:VAL:HG11	3:D:1177:ALA:CB	2.47	0.45
2:C:681:GLY:O	3:D:633:VAL:HG21	2.16	0.45
1:K:29:GLU:HB3	1:K:30:ARG:H	1.56	0.45
1:L:100:LEU:HB2	1:L:115:LEU:HD11	1.98	0.45
2:M:253:ALA:O	2:M:256:TYR:HB2	2.17	0.45
2:C:71:TYR:H	2:C:71:TYR:HD2	1.64	0.45
2:M:998:TYR:OH	2:M:1000:MET:HA	2.16	0.45
3:N:643:GLY:HA3	3:N:727:GLN:HG3	1.99	0.45
5:P:107:GLU:HG3	9:P:557:HOH:O	2.15	0.45
3:D:662:GLU:HB3	9:D:9957:HOH:O	2.16	0.45
3:N:1278:ASP:N	3:N:1278:ASP:OD1	2.49	0.45
3:D:789:LEU:HD23	3:D:789:LEU:HA	1.77	0.45
3:D:1284:GLU:HG2	9:D:9285:HOH:O	2.17	0.45
3:D:1392:GLY:HA3	9:D:9829:HOH:O	2.16	0.45
2:M:804:VAL:HG21	9:M:1805:HOH:O	2.17	0.45
3:D:216:VAL:HG12	9:D:9632:HOH:O	2.17	0.45
3:N:393:ILE:HD13	9:N:2314:HOH:O	2.16	0.45
2:C:64:LEU:CD1	2:C:100:LEU:HD13	2.47	0.45
2:C:54:ILE:HG22	2:C:66:LEU:HB3	1.98	0.45
1:A:65:PHE:CD1	2:C:828:ALA:HB3	2.52	0.45
3:N:54:LYS:CG	3:N:57:GLU:HB3	2.43	0.45
3:D:1209:LEU:HB3	3:D:1211:MET:HG2	1.98	0.45
3:N:949:ILE:HD11	3:N:1023:MET:HE2	1.98	0.45
2:M:882:LEU:HD23	3:N:951:ILE:HG12	1.98	0.45
3:N:481:MET:SD	3:N:1388:ARG:NE	2.90	0.45
2:M:1015:LEU:HD22	3:N:528:VAL:HG21	1.99	0.45
3:N:537:THR:HG23	9:N:9511:HOH:O	2.15	0.45
3:D:813:LEU:O	3:D:817:GLU:HB2	2.17	0.45
9:C:9290:HOH:O	3:D:621:LYS:HE3	2.16	0.45
3:N:654:LYS:HB3	3:N:655:PRO:CD	2.45	0.45
3:D:666:ILE:CD1	3:D:666:ILE:H	2.25	0.45
2:C:553:ASP:OD2	2:C:883:GLY:N	2.42	0.45
3:N:1428:ALA:O	3:N:1431:THR:HG23	2.17	0.45
3:N:1047:LYS:NZ	3:N:1053:PHE:HA	2.32	0.45
1:L:184:THR:HB	1:L:194:LYS:HZ3	1.81	0.45
2:M:449:ILE:O	2:M:451:LEU:HG	2.17	0.45
5:P:260:ILE:HG23	5:P:264:MET:CB	2.44	0.45
5:F:403:LYS:HE3	9:F:568:HOH:O	2.16	0.45
2:C:644:VAL:HG22	2:C:647:GLN:OE1	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:962:GLN:HB3	9:N:2175:HOH:O	2.17	0.45
3:N:466:LYS:HG2	3:N:510:GLU:HG2	1.99	0.45
1:L:141:GLU:HB2	9:L:3233:HOH:O	2.17	0.45
5:P:172:ARG:O	5:P:176:ILE:HG13	2.17	0.45
2:M:770:GLU:HG2	3:N:65:ARG:HH12	1.80	0.45
3:N:122:GLU:O	3:N:126:VAL:HG23	2.16	0.45
3:D:1281:VAL:HG21	3:D:1313:VAL:CG2	2.47	0.45
2:C:189:ARG:NH1	9:C:9636:HOH:O	2.49	0.45
2:M:1106:ASP:HB3	9:M:1151:HOH:O	2.17	0.45
3:D:893:GLU:O	3:D:896:ALA:HB3	2.17	0.45
2:C:851:LYS:HD2	9:C:2174:HOH:O	2.17	0.45
2:M:806:LEU:HB2	2:M:822:VAL:HG22	1.99	0.45
5:P:74:LYS:HG3	9:P:611:HOH:O	2.16	0.45
5:P:418:LEU:HD11	9:P:479:HOH:O	2.16	0.45
5:P:132:ARG:HE	5:P:184:ARG:NH1	2.16	0.44
3:N:183:GLU:HA	3:N:186:VAL:HG12	1.99	0.44
2:C:208:ALA:HB1	2:C:218:VAL:CG1	2.47	0.44
2:C:258:TYR:O	2:C:290:LEU:HG	2.17	0.44
3:D:551:ASN:O	3:D:554:LEU:HB3	2.17	0.44
2:C:102:HIS:HB2	2:C:106:GLY:O	2.17	0.44
2:C:64:LEU:HB2	2:C:359:MET:SD	2.57	0.44
5:P:401:GLU:OE1	5:P:405:LEU:HD22	2.16	0.44
5:F:295:MET:HB3	5:F:299:TRP:CD1	2.52	0.44
2:C:398:THR:HA	2:C:633:GLN:HG3	1.99	0.44
5:F:363:GLU:HA	5:F:367:MET:HE2	1.98	0.44
2:M:877:PRO:HB3	3:N:1020:LEU:HD13	1.99	0.44
3:N:493:ARG:HH21	3:N:1388:ARG:HB3	1.81	0.44
3:D:860:LEU:HD23	3:D:877:PRO:HB2	1.99	0.44
1:K:51:THR:HA	1:K:145:ASP:O	2.17	0.44
2:M:73:LEU:HB3	2:M:94:LEU:HD13	1.99	0.44
2:M:96:ALA:O	2:M:98:LEU:HD12	2.16	0.44
5:F:313:GLU:HB3	9:F:541:HOH:O	2.16	0.44
3:N:924:MET:O	3:N:927:THR:HB	2.17	0.44
3:D:157:GLU:HA	3:D:160:GLU:OE1	2.16	0.44
5:P:247:ILE:HG22	5:P:251:ILE:HD11	1.98	0.44
4:E:59:ASN:HD22	4:E:60:ALA:N	2.15	0.44
1:L:175:ARG:O	3:N:851:LEU:CD2	2.65	0.44
1:K:123:MET:O	1:K:125:PRO:HD3	2.18	0.44
4:E:58:PRO:HD2	9:E:113:HOH:O	2.17	0.44
3:N:647:ARG:NH1	3:N:680:GLN:HG3	2.33	0.44
1:B:58:ILE:HD12	1:B:140:MET:HE2	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:659:LYS:O	3:N:659:LYS:HD3	2.17	0.44
5:P:277:GLN:HA	9:P:763:HOH:O	2.16	0.44
3:D:776:GLU:HG3	9:D:9670:HOH:O	2.17	0.44
3:N:1129:THR:O	3:N:1130:ARG:HD2	2.17	0.44
2:C:292:ARG:HH11	2:C:299:LYS:HD3	1.82	0.44
3:N:638:LYS:HD3	9:N:9367:HOH:O	2.17	0.44
4:E:66:LYS:HB2	4:E:66:LYS:NZ	2.32	0.44
5:F:252:ALA:HB1	5:F:265:VAL:HG21	1.98	0.44
2:C:971:LYS:HE2	9:D:2072:HOH:O	2.16	0.44
2:M:202:TYR:OH	2:M:304:LEU:HD22	2.16	0.44
2:M:282:GLY:HA2	2:M:308:ARG:NH2	2.32	0.44
2:C:1114:GLY:N	2:C:1115:LEU:HD12	2.23	0.44
3:D:82:LYS:HD2	9:D:9518:HOH:O	2.17	0.44
2:C:777:ILE:HG22	2:C:778:PHE:CD1	2.53	0.44
5:F:369:LEU:O	5:F:373:LYS:HB2	2.17	0.44
2:C:208:ALA:HB1	2:C:218:VAL:HG13	1.99	0.44
2:C:212:GLY:HA3	2:C:218:VAL:CG2	2.48	0.44
3:D:1192:LEU:HD21	3:D:1372:VAL:CG1	2.47	0.44
5:P:350:LEU:HG	5:P:354:LEU:HD11	1.99	0.44
3:D:1394:VAL:HB	3:D:1397:LYS:CD	2.47	0.44
2:C:862:PRO:HA	2:C:975:TYR:CE1	2.53	0.44
3:N:1381:VAL:HB	3:N:1389:LEU:O	2.17	0.44
3:N:37:LEU:HD11	3:N:529:GLN:NE2	2.32	0.44
2:M:52:PHE:O	2:M:54:ILE:N	2.50	0.44
5:P:321:ILE:HG12	5:P:327:SER:O	2.17	0.44
3:D:591:VAL:HG11	3:D:597:ASP:HA	1.99	0.44
2:C:162:ILE:HB	2:C:172:ILE:HD13	1.99	0.44
2:C:185:LYS:HG2	2:C:190:LYS:CG	2.47	0.44
2:C:298:PHE:HD1	9:C:2292:HOH:O	2.00	0.44
2:C:144:PRO:C	2:C:276:LYS:HZ2	2.19	0.44
3:D:1107:VAL:O	3:D:1218:GLY:N	2.48	0.44
3:D:843:PHE:CZ	3:D:864:VAL:HG11	2.53	0.44
3:D:1063:GLU:HG2	3:D:1064:GLY:N	2.29	0.44
3:D:1005:GLN:HB3	9:D:9469:HOH:O	2.16	0.44
2:C:1054:THR:CG2	2:C:1082:PRO:HG3	2.48	0.44
1:A:62:LEU:HD12	1:A:62:LEU:N	2.31	0.44
2:M:69:LEU:HD21	2:M:99:GLN:CG	2.47	0.44
3:D:996:TRP:CD2	3:D:1056:PRO:HG2	2.52	0.44
2:M:86:LYS:CG	2:M:813:VAL:HG12	2.47	0.44
2:C:394:PHE:HA	9:C:9837:HOH:O	2.16	0.44
5:F:328:PHE:HD2	5:F:328:PHE:HA	1.73	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1408:ILE:HB	9:N:2499:HOH:O	2.18	0.44
2:M:950:LEU:HD22	9:M:1413:HOH:O	2.16	0.44
3:D:945:SER:OG	3:D:947:ILE:HG23	2.18	0.44
3:D:95:LEU:HD11	3:D:517:VAL:CG2	2.48	0.44
3:D:537:THR:N	5:F:317:LEU:HB2	2.32	0.44
2:C:1090:LYS:HG2	2:C:1112:PHE:CZ	2.53	0.44
3:D:475:LYS:O	3:D:479:GLU:HG2	2.16	0.44
3:D:543:LEU:HA	3:D:546:ARG:CG	2.42	0.44
5:P:366:ALA:HB3	5:P:367:MET:HE1	2.00	0.44
5:F:358:LEU:CD1	5:F:370:LYS:HG3	2.45	0.44
3:N:1023:MET:O	3:N:1028:ALA:HB3	2.18	0.44
2:M:551:GLU:HG3	2:M:552:HIS:CD2	2.51	0.44
2:M:747:ALA:O	2:M:799:ILE:HA	2.17	0.44
3:N:619:LEU:HD23	9:N:9219:HOH:O	2.15	0.44
2:C:405:ARG:NH2	2:C:566:THR:HG21	2.31	0.44
3:D:1196:THR:N	9:D:9138:HOH:O	2.42	0.44
1:B:99:LEU:HA	9:B:365:HOH:O	2.16	0.44
2:C:854:PRO:C	2:C:856:GLU:N	2.70	0.44
2:C:1014:SER:OG	5:F:331:ASP:HA	2.17	0.44
3:D:1496:GLU:HA	3:D:1499:ARG:CG	2.46	0.44
2:C:1054:THR:HB	9:C:9412:HOH:O	2.17	0.44
1:K:198:ARG:HD3	1:K:200:TRP:HH2	1.80	0.44
1:B:219:ARG:O	1:B:223:THR:HG23	2.18	0.44
2:M:513:VAL:HB	9:M:1626:HOH:O	2.16	0.44
2:C:205:GLU:O	2:C:209:ARG:HD2	2.17	0.44
3:N:933:ALA:O	3:N:937:TYR:HD1	2.00	0.44
2:M:84:ARG:HD3	9:M:1176:HOH:O	2.17	0.44
3:D:1102:THR:HG22	3:D:1222:GLY:CA	2.48	0.44
3:N:827:ILE:HG23	3:N:837:GLY:HA2	1.99	0.44
1:B:194:LYS:HD3	9:B:404:HOH:O	2.17	0.44
3:D:1492:LEU:HD13	3:D:1492:LEU:O	2.17	0.44
1:A:51:THR:HA	1:A:145:ASP:O	2.17	0.44
3:D:1485:GLN:O	4:E:75:PHE:HA	2.17	0.44
3:N:566:ILE:HG23	5:P:214:GLN:OE1	2.18	0.44
3:N:441:ARG:O	3:N:443:VAL:N	2.50	0.44
3:D:87:ARG:CB	3:D:523:ASP:HB2	2.48	0.44
3:D:1426:LYS:HA	3:D:1429:LEU:HB3	2.00	0.44
2:C:724:ARG:NH2	2:C:734:LEU:HB3	2.33	0.44
3:D:1312:LEU:HD12	3:D:1326:THR:O	2.18	0.44
3:D:1326:THR:HG22	3:D:1327:ARG:N	2.33	0.44
3:D:781:PRO:HB2	3:D:911:LEU:HD23	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:597:ALA:CB	2:C:655:LEU:HD21	2.38	0.44
5:P:361:LEU:HD13	5:P:366:ALA:CB	2.47	0.44
2:C:914:ILE:HD12	2:C:914:ILE:HA	1.72	0.44
2:C:577:PRO:HG3	2:C:993:PHE:CE2	2.51	0.44
2:C:565:GLN:OE1	2:C:842:ARG:HG2	2.18	0.44
2:M:549:PHE:HB3	2:M:552:HIS:CD2	2.52	0.44
3:N:1114:THR:O	3:N:1114:THR:HG23	2.17	0.44
1:K:209:GLU:O	1:K:213:GLN:HG3	2.18	0.44
2:C:86:LYS:HG2	2:C:813:VAL:HG12	1.98	0.44
3:D:397:LYS:HZ3	3:D:399:ARG:HH21	1.66	0.44
3:D:209:ARG:HB2	3:D:395:VAL:O	2.17	0.44
3:N:150:ARG:NH1	9:N:9382:HOH:O	2.50	0.44
3:D:1112:CYS:CB	9:D:9138:HOH:O	2.64	0.44
2:M:631:SER:HG	2:M:635:THR:H	1.65	0.44
2:M:375:SER:HA	9:M:1563:HOH:O	2.17	0.44
2:C:960:GLU:HG2	9:C:9189:HOH:O	2.18	0.44
4:O:40:LEU:HG	4:O:67:GLU:HG2	1.99	0.44
3:N:925:GLU:HG3	9:N:9237:HOH:O	2.17	0.44
5:P:152:ASP:HA	9:P:474:HOH:O	2.17	0.44
2:C:525:SER:O	2:C:529:VAL:HG23	2.17	0.44
3:D:1346:ARG:NH2	9:D:9256:HOH:O	2.50	0.44
3:N:1385:GLY:HA3	9:N:9637:HOH:O	2.17	0.44
2:M:619:ARG:HG2	9:M:1285:HOH:O	2.16	0.44
3:N:178:LEU:HD11	3:N:203:ALA:HB2	1.99	0.44
5:P:171:LYS:HG3	5:P:175:HIS:CD2	2.53	0.44
3:D:10:ILE:CD1	3:D:1447:LEU:HG	2.48	0.44
3:D:62:LYS:HE2	3:D:75:ARG:NH1	2.32	0.44
3:N:520:LEU:O	3:N:525:ARG:NH1	2.51	0.44
1:A:150:TYR:CE2	1:A:152:PRO:HG3	2.46	0.44
3:D:798:GLU:HG3	9:D:9700:HOH:O	2.17	0.44
5:P:361:LEU:HD23	5:P:362:SER:N	2.33	0.44
5:P:138:SER:HB2	5:P:140:ARG:HG2	2.00	0.44
3:D:1145:TYR:HD2	3:D:1168:MET:SD	2.40	0.44
2:M:876:VAL:O	2:M:879:ARG:O	2.35	0.44
2:M:625:LEU:HD11	2:M:641:PRO:HG3	1.98	0.44
2:M:118:ILE:HD12	2:M:119:PRO:O	2.18	0.44
1:K:11:PHE:CD1	1:L:225:PHE:HA	2.52	0.44
3:N:1432:LYS:HG2	9:N:2103:HOH:O	2.18	0.44
1:K:9:PRO:HB3	1:K:25:LEU:CD2	2.47	0.44
5:P:264:MET:O	5:P:268:ILE:HG13	2.17	0.44
4:E:93:TYR:HA	4:E:94:PRO:HD3	1.76	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:146:VAL:CG2	2:C:162:ILE:HG23	2.48	0.44
1:A:11:PHE:CE2	1:A:13:VAL:HG22	2.52	0.44
1:K:164:ALA:HB3	9:K:7572:HOH:O	2.18	0.44
5:P:172:ARG:HH21	5:P:173:TYR:HE1	1.66	0.44
3:D:393:ILE:N	3:D:393:ILE:HD12	2.30	0.44
1:K:198:ARG:HD3	1:K:200:TRP:CH2	2.52	0.44
3:D:724:GLN:HE21	3:D:725:SER:HA	1.83	0.44
2:M:198:ARG:HD3	9:M:1364:HOH:O	2.17	0.44
3:N:1196:THR:HG22	9:N:9626:HOH:O	2.17	0.44
5:F:328:PHE:O	5:F:330:GLY:N	2.51	0.44
2:M:195:LEU:HD12	2:M:234:ALA:HB1	1.99	0.44
2:M:425:PHE:HZ	9:N:9823:HOH:O	1.99	0.44
3:N:563:PRO:O	3:N:567:ILE:HG13	2.18	0.44
2:C:358:ARG:HA	2:C:361:MET:HB2	1.99	0.44
3:N:1042:ARG:O	3:N:1057:VAL:HB	2.18	0.44
3:D:54:LYS:HD3	3:D:57:GLU:OE2	2.18	0.44
2:C:158:TYR:HD1	9:C:9023:HOH:O	2.01	0.44
1:A:150:TYR:OH	2:C:832:LYS:HE3	2.16	0.44
2:M:187:ASN:HB3	9:M:2211:HOH:O	2.18	0.44
5:P:371:LEU:HA	5:P:375:LEU:HB3	1.99	0.44
2:C:339:LEU:HB3	2:C:385:PHE:HZ	1.82	0.44
5:F:411:HIS:CE1	5:F:412:GLU:HG2	2.53	0.44
2:M:139:GLN:CG	2:M:140:ILE:H	2.31	0.44
1:B:211:LEU:O	1:B:215:VAL:HG13	2.18	0.44
1:K:67:THR:HG22	2:M:627:ARG:HH21	1.83	0.44
2:M:611:ILE:HD11	2:M:641:PRO:HG3	2.00	0.44
1:K:67:THR:CG2	2:M:627:ARG:HH21	2.31	0.44
3:N:129:PHE:CE2	3:N:587:ARG:HD3	2.52	0.44
5:P:364:ARG:HH12	5:P:392:VAL:CG2	2.25	0.44
2:C:1003:ASP:O	2:C:1005:MET:N	2.51	0.44
2:C:1005:MET:HB3	3:D:629:SER:OG	2.17	0.44
1:L:142:VAL:HG23	1:L:142:VAL:O	2.18	0.44
5:P:409:LYS:HD3	9:P:725:HOH:O	2.17	0.44
2:C:811:PRO:HD2	2:C:813:VAL:CG1	2.44	0.44
2:M:95:TYR:CD2	2:M:114:PHE:HB3	2.53	0.44
1:A:19:GLU:O	1:A:200:TRP:HA	2.18	0.44
3:D:703:ASN:O	3:D:745:MET:HG2	2.16	0.44
3:N:789:LEU:HD22	3:N:882:PHE:HE1	1.82	0.44
2:M:397:GLU:N	2:M:633:GLN:OE1	2.50	0.44
3:D:502:PHE:CE1	3:D:509:PRO:HB3	2.52	0.44
2:C:941:VAL:O	2:C:944:LEU:HB2	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:868:TYR:CB	3:D:873:LEU:HD11	2.48	0.44
2:M:113:VAL:O	2:M:115:LEU:HG	2.16	0.44
1:L:133:GLU:N	9:L:4499:HOH:O	2.50	0.44
5:P:105:LYS:HZ3	5:P:179:GLU:HB3	1.80	0.44
1:B:182:GLU:HG2	1:B:194:LYS:HD2	1.98	0.44
1:L:63:HIS:HD2	9:L:2066:HOH:O	2.00	0.44
3:D:646:LYS:HE2	3:D:722:GLU:OE2	2.18	0.44
5:F:343:ASP:N	5:F:343:ASP:OD1	2.50	0.44
3:D:1292:VAL:O	3:D:1303:TYR:HB2	2.18	0.44
1:A:212:ASN:ND2	9:A:416:HOH:O	2.51	0.44
2:C:946:ARG:HD2	2:C:984:GLU:HB2	1.99	0.44
2:C:987:ILE:N	2:C:987:ILE:HD12	2.33	0.44
3:D:162:ARG:HE	3:D:434:ARG:NH2	2.15	0.44
3:N:546:ARG:HH12	3:N:550:ARG:CZ	2.31	0.44
3:N:1031:ASN:O	3:N:1034:GLN:HB2	2.17	0.44
3:D:81:THR:HG22	3:D:82:LYS:N	2.33	0.44
3:D:191:LEU:HB3	3:D:195:VAL:HG21	2.00	0.44
2:C:474:VAL:HG13	2:C:530:GLU:C	2.38	0.44
5:F:164:LYS:HA	5:F:171:LYS:NZ	2.33	0.44
3:N:55:ASP:HB3	3:N:82:LYS:HE2	1.99	0.44
2:M:158:TYR:CE1	2:M:313:LEU:HG	2.52	0.44
2:C:876:VAL:CB	3:D:949:ILE:HG13	2.45	0.44
2:C:949:LYS:NZ	3:D:827:ILE:HD12	2.32	0.44
1:B:206:THR:HG23	1:B:209:GLU:H	1.82	0.44
2:C:585:GLU:HG2	2:C:586:ARG:N	2.32	0.44
2:C:598:GLU:O	2:C:651:LYS:HG3	2.18	0.44
1:K:65:PHE:HE1	2:M:799:ILE:HD11	1.83	0.44
2:C:838:LYS:CG	2:C:997:LEU:HD12	2.46	0.44
2:M:274:ARG:NH2	2:M:284:ARG:HG3	2.33	0.44
1:B:143:ARG:CD	1:B:158:ILE:HG21	2.48	0.44
1:B:156:HIS:CE1	1:B:158:ILE:HG12	2.52	0.44
1:L:176:ARG:HD3	3:N:884:ARG:HH12	1.80	0.44
3:N:630:VAL:CA	3:N:744:GLN:HG2	2.43	0.44
1:A:161:ARG:HB2	1:A:161:ARG:NH1	2.32	0.44
3:D:490:ALA:HB2	9:D:2277:HOH:O	2.17	0.44
3:N:1397:LYS:HE3	9:N:2103:HOH:O	2.16	0.44
3:D:153:LEU:HB3	9:D:2369:HOH:O	2.17	0.44
1:L:185:ARG:HG3	1:L:190:THR:HG23	2.00	0.44
5:F:407:LYS:HD2	9:F:568:HOH:O	2.17	0.44
1:K:108:GLU:HG2	9:K:1619:HOH:O	2.18	0.44
3:N:633:VAL:HG22	3:N:635:PRO:CD	2.47	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1129:THR:HA	9:N:9203:HOH:O	2.18	0.44
3:N:1130:ARG:NH1	9:N:9644:HOH:O	2.49	0.44
3:N:840:LYS:HB3	3:N:841:TYR:CD2	2.53	0.44
3:N:650:LEU:HD22	3:N:688:TRP:CH2	2.53	0.44
1:L:105:GLY:O	1:L:132:LEU:HB3	2.17	0.44
3:N:107:ASP:OD2	3:N:1445:HIS:HA	2.17	0.44
2:C:44:ILE:HD13	2:C:344:PHE:CG	2.52	0.44
3:D:592:THR:N	3:D:600:LEU:HD21	2.33	0.44
3:N:221:ALA:HB2	9:N:2086:HOH:O	2.16	0.44
2:C:81:ASP:HB3	9:C:2112:HOH:O	2.17	0.44
3:D:202:VAL:HG22	9:D:9849:HOH:O	2.17	0.44
5:P:192:LEU:O	5:P:196:VAL:HG23	2.18	0.44
3:D:603:LEU:HA	3:D:606:ILE:CG1	2.48	0.44
3:N:187:LYS:HA	3:N:187:LYS:HD3	1.67	0.44
2:C:207:LEU:HD22	2:C:221:LEU:HD22	2.00	0.44
5:F:102:LEU:HD12	5:F:187:LEU:HG	1.99	0.44
3:D:1474:ALA:C	9:D:2639:HOH:O	2.55	0.44
2:M:185:LYS:HB3	2:M:188:LYS:O	2.18	0.44
5:P:361:LEU:HD13	5:P:366:ALA:HB2	2.00	0.44
3:N:1395:LEU:HD13	3:N:1399:ASP:OD2	2.18	0.44
3:N:18:ILE:HA	3:N:21:TRP:CE3	2.53	0.44
1:B:90:LEU:HB3	9:B:530:HOH:O	2.18	0.44
3:D:953:ASP:O	3:D:955:VAL:HG23	2.17	0.44
2:M:396:ASP:HB3	2:M:406:HIS:CD2	2.53	0.44
1:A:9:PRO:HB3	1:A:25:LEU:CD2	2.47	0.44
3:N:470:LEU:H	3:N:470:LEU:HD23	1.83	0.44
2:C:8:ARG:HD2	2:C:10:ARG:CZ	2.47	0.44
2:C:21:ILE:HD11	2:C:455:LEU:HD11	1.98	0.44
2:C:119:PRO:HD3	9:C:9544:HOH:O	2.18	0.44
3:N:886:VAL:HG13	3:N:930:LEU:CD1	2.48	0.44
3:D:1107:VAL:HG21	3:D:1215:VAL:HG11	2.00	0.44
2:C:471:TYR:HB3	9:C:9955:HOH:O	2.17	0.44
3:D:818:ARG:HD2	9:D:9655:HOH:O	2.17	0.44
2:C:954:THR:OG1	2:C:957:LYS:HG3	2.17	0.44
2:C:525:SER:OG	2:C:528:GLU:HG3	2.17	0.44
4:O:61:GLU:HG3	4:O:61:GLU:H	1.56	0.44
3:D:657:LEU:O	3:D:661:MET:HG2	2.16	0.44
1:B:149:GLY:O	1:B:171:PHE:HB2	2.18	0.44
2:C:896:PHE:O	2:C:924:VAL:HG11	2.17	0.44
2:M:212:GLY:HA3	2:M:218:VAL:CG2	2.47	0.44
5:P:84:TYR:HA	5:P:87:GLU:OE2	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:195:VAL:HG22	9:N:9164:HOH:O	2.17	0.44
2:C:260:LEU:HD23	2:C:261:ILE:CG1	2.47	0.44
2:M:759:THR:HB	2:M:785:VAL:HG22	1.99	0.44
2:C:52:PHE:O	2:C:54:ILE:N	2.51	0.44
1:A:24:VAL:HG22	1:A:196:THR:CG2	2.47	0.44
3:D:796:ARG:O	3:D:828:LYS:HB2	2.17	0.44
5:F:398:ARG:HH11	5:F:398:ARG:HG3	1.82	0.44
2:C:670:GLN:HE22	2:C:699:PHE:CA	2.31	0.44
2:C:577:PRO:HG3	2:C:993:PHE:CD2	2.53	0.44
2:C:135:VAL:CG1	2:C:407:LYS:HA	2.47	0.44
2:C:631:SER:HB3	2:C:637:LEU:HD21	1.99	0.44
3:D:670:VAL:HG22	9:D:9268:HOH:O	2.16	0.44
2:M:18:LEU:HD21	2:M:542:VAL:HG21	1.99	0.44
2:M:410:ILE:N	2:M:453:THR:O	2.43	0.44
5:P:315:VAL:HG12	5:P:316:SER:N	2.32	0.44
2:C:835:VAL:HA	2:C:849:VAL:HB	1.99	0.44
3:N:1109:GLU:HG2	3:N:1202:GLN:N	2.32	0.44
3:N:1209:LEU:CD2	3:N:1211:MET:H	2.31	0.44
2:M:1043:TYR:CE1	3:N:710:ARG:HB2	2.53	0.44
3:D:1495:ILE:O	3:D:1498:ALA:HB3	2.18	0.44
3:N:161:LEU:HA	9:N:9501:HOH:O	2.17	0.44
2:C:173:ASP:O	2:C:184:MET:HA	2.17	0.44
3:D:1236:LEU:CA	3:D:1359:GLN:HE22	2.28	0.44
3:D:884:ARG:HG3	9:D:2095:HOH:O	2.18	0.44
3:D:1376:MET:CE	3:D:1421:LEU:HD12	2.48	0.44
3:N:610:LYS:C	3:N:611:GLN:HG2	2.38	0.44
3:D:783:ARG:HD3	3:D:1029:ARG:HG3	2.00	0.44
2:C:863:ASP:O	2:C:865:THR:N	2.51	0.44
2:M:256:TYR:HB3	9:M:2098:HOH:O	2.17	0.44
2:C:720:GLU:HG2	2:C:760:SER:HB3	2.00	0.44
3:D:996:TRP:HB2	3:D:1044:LEU:HD11	1.98	0.44
5:F:179:GLU:O	5:F:182:ALA:HB3	2.17	0.44
3:D:797:LYS:N	3:D:797:LYS:HD2	2.33	0.44
3:D:196:VAL:HG13	3:D:202:VAL:CG1	2.48	0.44
3:D:1244:GLY:HA2	9:D:2269:HOH:O	2.18	0.44
2:C:188:LYS:HG2	9:C:9660:HOH:O	2.17	0.44
3:D:1464:GLU:HG2	3:D:1464:GLU:H	1.60	0.44
2:M:324:ASP:O	2:M:327:HIS:HB2	2.18	0.44
2:C:1050:GLN:HG3	9:D:9424:HOH:O	2.18	0.44
3:D:118:LEU:HB3	3:D:123:LEU:HD13	2.00	0.43
3:D:396:VAL:CG2	3:D:447:VAL:HB	2.44	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:196:LEU:O	2:M:199:VAL:HB	2.18	0.43
3:N:565:ILE:CD1	5:P:189:GLU:HG2	2.48	0.43
3:N:423:ASP:OD1	5:P:175:HIS:ND1	2.51	0.43
3:N:443:VAL:CG1	3:N:445:ARG:HH21	2.30	0.43
3:D:50:PHE:HB3	3:D:522:PRO:HG2	1.99	0.43
2:C:433:THR:C	2:C:435:TYR:H	2.22	0.43
3:D:566:ILE:CG2	5:F:214:GLN:HE22	2.29	0.43
5:F:215:GLU:O	5:F:218:GLN:HB3	2.18	0.43
3:D:543:LEU:HD22	3:D:580:ALA:HB1	1.99	0.43
2:C:548:PRO:HB2	2:C:549:PHE:H	1.68	0.43
2:C:885:ILE:HD12	3:D:949:ILE:HB	2.00	0.43
3:D:1432:LYS:CG	3:D:1433:SER:H	2.30	0.43
2:C:674:VAL:HB	2:C:869:VAL:HG13	1.99	0.43
2:C:694:LEU:HD21	2:C:868:ASP:OD2	2.18	0.43
3:D:1128:VAL:O	3:D:1129:THR:C	2.56	0.43
2:M:12:VAL:CG1	2:M:534:VAL:HG13	2.48	0.43
1:L:51:THR:HA	1:L:145:ASP:O	2.16	0.43
2:C:820:ARG:HA	9:C:2038:HOH:O	2.17	0.43
1:A:5:LYS:HE3	1:A:5:LYS:HA	2.00	0.43
3:D:397:LYS:NZ	3:D:399:ARG:HH21	2.16	0.43
2:M:448:ASN:HA	2:M:451:LEU:CD1	2.48	0.43
5:P:260:ILE:HD11	5:P:310:ILE:CG2	2.46	0.43
3:N:34:TYR:OH	5:P:264:MET:HG3	2.18	0.43
2:C:138:SER:HB2	2:C:410:ILE:HG13	2.00	0.43
3:N:972:LEU:HG	3:N:976:GLN:NE2	2.33	0.43
2:M:1079:PRO:HA	9:M:2082:HOH:O	2.16	0.43
2:C:222:MET:HE3	9:C:2066:HOH:O	2.18	0.43
3:D:1183:ILE:HG21	9:D:9795:HOH:O	2.17	0.43
3:N:1041:LEU:HD12	3:N:1058:ARG:HA	2.00	0.43
1:B:207:PRO:HD2	9:B:588:HOH:O	2.18	0.43
2:M:480:THR:HG22	2:M:482:GLU:H	1.82	0.43
3:D:1405:GLU:CD	3:D:1413:THR:HB	2.38	0.43
5:P:418:LEU:HB3	9:P:526:HOH:O	2.18	0.43
2:C:850:ALA:HA	3:D:632:VAL:HG11	1.99	0.43
2:M:311:PHE:HB3	9:M:1584:HOH:O	2.17	0.43
3:N:543:LEU:CD1	3:N:581:LEU:HA	2.48	0.43
3:D:103:TRP:HE1	3:D:604:THR:CG2	2.30	0.43
2:M:289:THR:O	2:M:291:ALA:N	2.51	0.43
1:L:1:MET:HG3	1:L:2:LEU:N	2.32	0.43
3:D:1468:LEU:HD23	3:D:1468:LEU:O	2.18	0.43
3:D:563:PRO:HG3	5:F:188:ILE:HG21	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:8:ARG:HA	2:M:8:ARG:HD3	1.76	0.43
3:N:50:PHE:CB	3:N:522:PRO:HG2	2.47	0.43
3:D:781:PRO:HB3	3:D:785:ILE:HB	1.99	0.43
3:N:645:PRO:HG3	3:N:725:SER:O	2.18	0.43
2:C:395:LYS:HD3	2:C:397:GLU:OE2	2.19	0.43
4:O:47:LYS:N	4:O:54:LEU:HD22	2.33	0.43
2:M:461:VAL:HG13	2:M:465:GLY:HA2	2.00	0.43
1:L:51:THR:HG22	9:L:1365:HOH:O	2.18	0.43
2:C:839:LEU:N	2:C:839:LEU:HD23	2.33	0.43
3:N:1216:SER:HB3	4:O:16:LYS:H	1.81	0.43
2:C:943:VAL:HG11	2:C:973:VAL:CG2	2.48	0.43
2:C:1060:ILE:CD1	2:C:1063:ARG:HH12	2.28	0.43
3:D:703:ASN:ND2	3:D:704:ARG:H	2.15	0.43
3:N:989:TYR:OH	3:N:1052:THR:HG23	2.17	0.43
1:L:80:LEU:CD1	3:N:842:VAL:HB	2.49	0.43
3:D:841:TYR:HB3	3:D:843:PHE:CE2	2.53	0.43
3:D:790:TYR:CD1	3:D:1022:VAL:HG13	2.53	0.43
3:D:484:PRO:HG3	9:D:9613:HOH:O	2.17	0.43
1:A:101:LEU:HA	9:A:375:HOH:O	2.19	0.43
2:C:958:THR:HG21	9:C:9189:HOH:O	2.18	0.43
2:C:348:LEU:HD23	9:C:9915:HOH:O	2.18	0.43
5:F:416:ARG:HG2	9:F:464:HOH:O	2.18	0.43
2:M:881:ASN:N	2:M:881:ASN:ND2	2.65	0.43
3:N:975:GLU:HG3	9:N:9202:HOH:O	2.17	0.43
5:F:201:LYS:NZ	9:F:841:HOH:O	2.50	0.43
3:N:769:LEU:HD12	3:N:769:LEU:H	1.83	0.43
3:D:1161:GLU:HG2	3:D:1161:GLU:H	1.67	0.43
2:C:942:GLU:HG3	9:C:2219:HOH:O	2.19	0.43
5:P:164:LYS:HA	5:P:171:LYS:HZ3	1.83	0.43
3:N:1036:ARG:HE	3:N:1042:ARG:HA	1.84	0.43
3:D:526:PRO:HG2	9:D:2043:HOH:O	2.18	0.43
3:D:62:LYS:HE2	3:D:75:ARG:CZ	2.47	0.43
2:M:164:PRO:HD2	2:M:170:PRO:O	2.18	0.43
3:D:1397:LYS:NZ	3:D:1432:LYS:HB3	2.33	0.43
3:N:1109:GLU:CG	3:N:1202:GLN:H	2.32	0.43
1:L:19:GLU:O	1:L:200:TRP:HA	2.18	0.43
2:C:413:LEU:HB3	9:C:9485:HOH:O	2.18	0.43
2:M:402:SER:HB2	2:M:566:THR:O	2.18	0.43
5:F:153:PRO:CG	5:F:154:LYS:H	2.32	0.43
2:C:643:VAL:HG13	2:C:647:GLN:OE1	2.18	0.43
3:N:1344:VAL:O	3:N:1348:LEU:HD23	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:783:ARG:NE	3:D:1029:ARG:CZ	2.82	0.43
3:D:1254:GLN:OE1	3:D:1254:GLN:HA	2.17	0.43
2:C:31:GLN:HE21	2:C:31:GLN:HB3	1.64	0.43
3:D:1087:ARG:HB2	3:D:1087:ARG:CZ	2.48	0.43
1:B:80:LEU:HD23	3:D:867:ARG:HH12	1.83	0.43
2:M:64:LEU:CD1	2:M:100:LEU:HD13	2.48	0.43
2:M:252:LYS:HZ2	2:M:296:GLY:HA3	1.82	0.43
2:C:1057:SER:HB2	3:D:622:ARG:O	2.18	0.43
5:P:280:GLN:OE1	5:P:281:GLU:HB2	2.18	0.43
3:N:1312:LEU:HD13	9:N:2318:HOH:O	2.18	0.43
4:E:87:LYS:HD2	9:E:124:HOH:O	2.18	0.43
2:C:6:PHE:CE2	2:C:913:GLU:HG2	2.53	0.43
3:D:829:VAL:O	3:D:835:SER:HB2	2.18	0.43
2:C:620:LEU:O	2:C:620:LEU:HD22	2.17	0.43
3:N:180:LYS:HB2	9:N:9411:HOH:O	2.18	0.43
3:D:428:LYS:HD2	9:D:2762:HOH:O	2.19	0.43
3:N:1485:GLN:O	4:O:75:PHE:HA	2.19	0.43
2:M:21:ILE:HG23	2:M:335:THR:HG22	1.99	0.43
3:N:894:LYS:HA	9:N:9184:HOH:O	2.17	0.43
3:N:399:ARG:HH21	3:N:432:TYR:HE2	1.66	0.43
2:C:873:PRO:HG2	3:D:947:ILE:O	2.18	0.43
3:D:520:LEU:O	3:D:525:ARG:NH1	2.52	0.43
5:F:211:ASP:O	5:F:215:GLU:HG2	2.18	0.43
3:N:73:CYS:HB2	9:N:9127:HOH:O	2.17	0.43
2:C:993:PHE:HE1	2:C:995:MET:SD	2.42	0.43
2:C:521:PRO:HB2	3:D:1055:VAL:CG2	2.48	0.43
2:M:135:VAL:HG11	2:M:407:LYS:HA	2.00	0.43
3:N:1114:THR:HG23	3:N:1116:ASN:HD21	1.82	0.43
2:C:523:ILE:HG22	9:C:2065:HOH:O	2.17	0.43
3:N:850:LEU:HD22	3:N:884:ARG:NH2	2.33	0.43
2:M:163:ILE:HB	2:M:171:TRP:CZ3	2.53	0.43
3:D:137:PRO:HD2	3:D:453:ASP:CB	2.48	0.43
3:N:1462:LEU:HD22	3:N:1472:ILE:CG2	2.47	0.43
2:M:672:VAL:HG23	2:M:868:ASP:CB	2.45	0.43
3:D:1267:ARG:HH21	3:D:1271:LYS:HD2	1.82	0.43
2:C:57:GLU:HG3	2:C:58:ASP:OD2	2.18	0.43
3:N:1333:HIS:HB3	9:N:9684:HOH:O	2.17	0.43
3:D:1153:VAL:HG22	9:D:9184:HOH:O	2.18	0.43
2:M:970:GLY:HA2	9:M:1479:HOH:O	2.17	0.43
1:K:20:TYR:HE2	1:K:198:ARG:HB3	1.82	0.43
3:N:1302:GLU:OE2	3:N:1304:LYS:HG2	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1330:ILE:HD12	3:D:1347:TYR:HE1	1.79	0.43
2:M:817:PRO:C	2:M:819:VAL:H	2.21	0.43
3:D:99:ALA:HB3	3:D:578:VAL:HG21	2.00	0.43
3:N:103:TRP:CH2	3:N:1447:LEU:HD23	2.53	0.43
2:M:811:PRO:HA	9:M:1275:HOH:O	2.17	0.43
2:C:572:ILE:HG21	2:C:703:ILE:HD13	2.01	0.43
2:C:789:SER:HB2	9:C:9460:HOH:O	2.18	0.43
3:N:1161:GLU:HB2	9:N:2258:HOH:O	2.18	0.43
2:C:589:ARG:HH11	2:C:589:ARG:HB2	1.84	0.43
3:D:994:GLN:HE21	3:D:994:GLN:HA	1.83	0.43
3:D:757:ALA:CB	4:E:24:ALA:HB2	2.49	0.43
3:D:229:ALA:HB2	9:D:2743:HOH:O	2.18	0.43
3:N:901:GLN:NE2	9:N:9586:HOH:O	2.51	0.43
2:M:191:PHE:HB2	9:M:1708:HOH:O	2.19	0.43
2:M:200:LEU:H	2:M:200:LEU:HG	1.66	0.43
3:N:434:ARG:HB2	3:N:447:VAL:CG2	2.48	0.43
1:K:38:ASN:HB3	1:K:39:PRO:HD3	2.00	0.43
2:C:1085:PHE:CD1	2:C:1085:PHE:C	2.91	0.43
3:N:214:GLU:HG3	3:N:390:PRO:HB2	2.01	0.43
2:C:302:VAL:O	2:C:305:PRO:HD2	2.19	0.43
3:N:55:ASP:CA	3:N:82:LYS:HE2	2.48	0.43
3:D:1462:LEU:HD22	3:D:1472:ILE:CG2	2.47	0.43
2:C:560:MET:O	2:C:564:MET:HB2	2.18	0.43
2:C:975:TYR:HA	2:C:982:PRO:HA	2.00	0.43
4:O:54:LEU:HD12	4:O:58:PRO:HG2	1.99	0.43
3:N:22:SER:OG	3:N:91:GLY:HA2	2.19	0.43
3:N:105:VAL:CG2	3:N:128:TYR:HE2	2.23	0.43
2:M:137:VAL:O	2:M:391:LEU:HD21	2.18	0.43
2:M:1039:ALA:HB2	3:N:707:THR:HG21	2.00	0.43
1:B:156:HIS:CE1	1:B:158:ILE:H	2.36	0.43
1:A:59:GLU:HB2	1:A:139:ASN:ND2	2.34	0.43
3:N:1264:GLU:HG2	3:N:1266:ARG:NH2	2.34	0.43
3:D:1232:PRO:HB3	3:D:1361:VAL:CG2	2.47	0.43
3:D:704:ARG:HH12	3:D:738:ALA:HA	1.82	0.43
3:D:957:PRO:HB3	3:D:959:GLU:OE1	2.18	0.43
3:N:1012:GLU:HG2	3:N:1013:GLU:HG2	2.00	0.43
3:D:1093:TYR:HE1	3:D:1260:ILE:HD11	1.83	0.43
3:D:890:VAL:HG11	3:D:922:LEU:HD13	2.00	0.43
1:K:111:ALA:HB3	1:K:124:ASN:O	2.19	0.43
1:A:99:LEU:HD23	1:A:122:ILE:HD11	2.01	0.43
2:M:56:GLU:CG	2:M:64:LEU:HD23	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:19:GLU:O	1:K:200:TRP:HA	2.18	0.43
1:K:19:GLU:HG3	1:K:201:THR:O	2.18	0.43
5:P:309:LYS:HA	5:P:309:LYS:HD3	1.81	0.43
2:C:48:PHE:CD1	2:C:348:LEU:HD21	2.53	0.43
2:C:742:VAL:HB	9:C:9293:HOH:O	2.18	0.43
2:C:742:VAL:HG12	2:C:743:VAL:N	2.33	0.43
3:D:1094:LEU:O	3:D:1098:LEU:HD13	2.18	0.43
3:D:233:LYS:HA	9:D:9728:HOH:O	2.18	0.43
5:P:215:GLU:HA	5:P:215:GLU:OE1	2.18	0.43
1:L:62:LEU:HD12	1:L:62:LEU:N	2.34	0.43
5:P:113:ILE:HG23	5:P:127:ILE:CG2	2.48	0.43
5:P:174:LEU:HD11	9:P:633:HOH:O	2.17	0.43
2:M:878:SER:HA	3:N:1034:GLN:OE1	2.18	0.43
3:D:1422:MET:CE	3:D:1427:SER:HA	2.48	0.43
2:C:170:PRO:HG2	2:C:258:TYR:CE2	2.54	0.43
3:D:550:ARG:HH11	3:D:573:MET:HB3	1.82	0.43
1:A:188:GLN:HG3	1:A:188:GLN:H	1.54	0.43
1:A:29:GLU:HB3	1:A:30:ARG:H	1.55	0.43
3:N:80:VAL:HG12	3:N:81:THR:O	2.18	0.43
4:E:10:PHE:O	4:E:13:VAL:HG22	2.18	0.43
3:D:908:LYS:CG	3:D:1027:GLY:HA3	2.48	0.43
5:F:306:GLU:OE1	5:F:310:ILE:HD11	2.18	0.43
1:A:72:LYS:HE2	2:C:641:PRO:HB2	2.00	0.43
2:M:503:LEU:CD1	2:M:505:GLY:H	2.31	0.43
2:M:140:ILE:N	2:M:140:ILE:HD12	2.33	0.43
5:F:195:VAL:HG22	5:F:243:ILE:HD13	2.00	0.43
1:B:11:PHE:HA	9:B:327:HOH:O	2.19	0.43
2:M:98:LEU:HG	9:M:2168:HOH:O	2.19	0.43
2:C:405:ARG:HH12	2:C:563:ASN:ND2	2.16	0.43
3:D:156:GLU:CD	3:D:156:GLU:N	2.70	0.43
3:N:1123:PHE:CE2	3:N:1184:GLN:HA	2.54	0.43
3:N:1243:THR:CB	3:N:1253:THR:HB	2.48	0.43
1:K:150:TYR:CE1	2:M:696:LYS:HA	2.53	0.43
1:A:53:VAL:HG21	1:A:82:LEU:HD22	1.99	0.43
3:D:930:LEU:O	3:D:934:LEU:HG	2.18	0.43
3:N:411:THR:HG22	9:N:9158:HOH:O	2.19	0.43
2:M:767:PRO:HG3	9:M:1541:HOH:O	2.18	0.43
1:L:88:ARG:HH12	1:L:90:LEU:HA	1.83	0.43
2:C:269:LEU:HD23	9:C:9593:HOH:O	2.19	0.43
5:F:339:PRO:HB3	5:F:343:ASP:HB2	2.01	0.43
3:N:1143:GLY:HA2	3:N:1365:ASP:OD1	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:826:TYR:N	2:M:826:TYR:CD1	2.86	0.43
1:L:68:ILE:H	1:L:68:ILE:HD12	1.84	0.43
3:N:793:THR:O	3:N:879:ARG:HD3	2.19	0.43
2:M:555:ALA:HA	3:N:1070:TYR:OH	2.18	0.43
3:D:162:ARG:O	3:D:434:ARG:HG3	2.18	0.43
2:M:1032:PHE:O	3:N:620:GLY:HA2	2.19	0.43
3:D:560:GLN:HG2	5:F:218:GLN:HE22	1.83	0.43
5:F:140:ARG:HG3	5:F:140:ARG:HH11	1.83	0.43
3:N:1379:VAL:HA	3:N:1420:LEU:CB	2.48	0.43
5:F:260:ILE:CG2	5:F:264:MET:HB2	2.39	0.43
2:C:577:PRO:HD2	2:C:580:MET:HG2	2.01	0.43
5:F:412:GLU:HG3	5:F:418:LEU:HD22	2.00	0.43
3:N:1384:PRO:HG2	9:N:2066:HOH:O	2.19	0.43
4:O:48:MET:CB	4:O:54:LEU:HB2	2.49	0.43
1:L:30:ARG:HA	9:L:6862:HOH:O	2.18	0.43
2:C:451:LEU:N	9:C:9147:HOH:O	2.49	0.43
3:N:1156:LEU:HG	3:N:1177:ALA:HB2	2.01	0.43
3:N:461:ILE:O	3:N:465:LEU:HB2	2.19	0.43
2:C:8:ARG:HA	2:C:8:ARG:HD3	1.92	0.43
2:M:399:ASN:OD1	2:M:568:ALA:HB3	2.17	0.43
2:M:448:ASN:HA	2:M:451:LEU:HD12	2.00	0.43
3:D:715:ALA:O	3:D:764:LEU:HD12	2.18	0.43
3:D:1237:THR:HG22	3:D:1238:MET:N	2.34	0.43
2:C:781:LYS:HA	9:C:9466:HOH:O	2.18	0.43
3:N:961:LYS:HG2	9:N:9370:HOH:O	2.17	0.43
2:C:259:GLY:HA3	9:C:9114:HOH:O	2.18	0.43
3:N:1377:LYS:HG2	3:N:1378:TYR:CE1	2.54	0.43
2:C:795:GLY:HA2	9:C:9958:HOH:O	2.19	0.43
2:M:304:LEU:HD23	2:M:305:PRO:HD3	2.00	0.43
2:M:969:GLN:HE21	2:M:969:GLN:HB3	1.70	0.43
2:C:724:ARG:HH22	2:C:734:LEU:HB3	1.84	0.43
3:D:187:LYS:HB3	9:D:9776:HOH:O	2.18	0.43
3:N:820:GLU:HA	3:N:825:ALA:O	2.19	0.43
3:D:566:ILE:HD13	5:F:217:ASN:HB3	2.00	0.43
3:D:161:LEU:HD13	3:D:452:ILE:HD12	2.01	0.43
3:N:81:THR:O	3:N:82:LYS:O	2.36	0.43
2:C:548:PRO:HD2	2:C:843:HIS:CE1	2.54	0.43
2:M:836:GLY:HA2	3:N:725:SER:OG	2.19	0.43
2:M:433:THR:CG2	2:M:488:ALA:HB1	2.48	0.43
2:C:1043:TYR:HE2	3:D:768:ASN:ND2	2.16	0.43
1:B:44:LEU:HD23	1:B:48:ILE:CD1	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1103:ASP:N	2:C:1107:ASN:O	2.51	0.43
2:C:8:ARG:HH11	2:C:10:ARG:HH22	1.66	0.43
2:M:704:HIS:HB3	2:M:831:ARG:HE	1.81	0.43
3:N:35:ARG:HG3	3:N:36:THR:N	2.34	0.43
2:C:195:LEU:HD21	2:C:238:LEU:HG	2.00	0.43
2:M:206:THR:HG21	9:M:1185:HOH:O	2.18	0.43
2:M:750:LYS:HB3	9:N:9537:HOH:O	2.18	0.43
1:B:138:LEU:HA	9:B:340:HOH:O	2.18	0.43
3:D:35:ARG:HG3	3:D:35:ARG:HH11	1.83	0.43
3:D:645:PRO:HG3	3:D:725:SER:O	2.18	0.43
3:N:703:ASN:HD22	3:N:713:ILE:HD11	1.84	0.43
2:C:758:ARG:HG2	2:C:758:ARG:HH11	1.83	0.43
3:N:846:PRO:HA	9:N:9225:HOH:O	2.18	0.43
2:M:57:GLU:O	2:M:62:GLY:HA3	2.18	0.43
3:D:853:VAL:CG2	3:D:858:VAL:HG23	2.48	0.43
1:L:137:ARG:NH1	1:L:137:ARG:HB3	2.34	0.43
1:B:64:GLU:HB3	9:B:391:HOH:O	2.17	0.43
5:F:340:SER:O	5:F:342:VAL:N	2.52	0.43
3:D:163:TYR:O	3:D:447:VAL:HG21	2.19	0.43
2:M:196:LEU:O	2:M:200:LEU:HG	2.19	0.43
3:N:421:LEU:HD11	3:N:437:VAL:HG22	2.00	0.43
3:D:84:ILE:HA	3:D:87:ARG:HG2	2.01	0.43
2:M:10:ARG:HD2	9:M:1620:HOH:O	2.18	0.43
3:N:81:THR:HG22	3:N:82:LYS:N	2.33	0.43
2:C:338:GLU:O	2:C:341:THR:HG22	2.19	0.43
3:D:444:VAL:HG22	3:D:444:VAL:O	2.17	0.43
1:L:194:LYS:HG2	9:L:1860:HOH:O	2.18	0.43
5:P:260:ILE:CG2	5:P:264:MET:HB2	2.45	0.43
5:F:402:ASN:HA	5:F:405:LEU:CD2	2.47	0.43
2:C:185:LYS:HA	9:C:9171:HOH:O	2.18	0.43
2:C:121:MET:HG3	2:C:127:PHE:CE2	2.54	0.43
2:C:648:ARG:HG3	9:C:2118:HOH:O	2.19	0.43
3:D:679:ARG:HB2	3:D:682:ASP:OD2	2.19	0.43
3:D:1318:TYR:HD1	3:D:1319:VAL:N	2.16	0.43
3:D:1404:ASN:ND2	3:D:1408:ILE:HD12	2.33	0.43
1:L:205:VAL:HG23	1:L:206:THR:N	2.34	0.43
2:M:722:ILE:HG23	2:M:722:ILE:O	2.19	0.43
3:D:924:MET:HG3	9:D:2267:HOH:O	2.19	0.43
1:A:117:VAL:HB	1:A:120:VAL:CG1	2.48	0.43
4:O:33:HIS:CD2	4:O:89:MET:HG2	2.54	0.43
3:N:1415:VAL:HG23	3:N:1415:VAL:O	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:684:LYS:HG2	9:D:9634:HOH:O	2.17	0.43
3:N:486:ARG:HA	3:N:489:ARG:CD	2.47	0.43
1:B:123:MET:O	1:B:125:PRO:HD3	2.19	0.43
1:L:86:VAL:O	1:L:86:VAL:HG13	2.18	0.43
2:M:92:ALA:HB1	9:M:1326:HOH:O	2.18	0.43
3:D:820:GLU:HG3	3:D:836:VAL:HG11	2.00	0.43
1:B:59:GLU:HG2	9:B:461:HOH:O	2.19	0.43
2:C:787:ASP:C	2:C:787:ASP:OD1	2.57	0.43
5:P:232:ARG:HA	5:P:232:ARG:HD2	1.83	0.43
3:D:921:ARG:HD2	9:D:9512:HOH:O	2.18	0.43
3:D:409:VAL:HB	9:D:9702:HOH:O	2.18	0.43
3:D:422:ALA:O	3:D:427:VAL:HG21	2.18	0.43
3:N:399:ARG:HB3	3:N:402:PRO:HG3	2.00	0.43
3:N:1031:ASN:HB3	9:N:9624:HOH:O	2.18	0.43
3:N:87:ARG:HD2	3:N:88:TYR:CE2	2.54	0.43
3:D:493:ARG:HG2	3:D:493:ARG:NH1	2.33	0.43
3:D:183:GLU:HA	3:D:186:VAL:CG1	2.49	0.43
5:F:102:LEU:HD13	5:F:187:LEU:HA	1.99	0.43
3:D:560:GLN:HB2	9:F:462:HOH:O	2.17	0.43
3:D:563:PRO:HG3	3:D:566:ILE:HD12	1.99	0.43
3:D:1310:ARG:CZ	3:D:1327:ARG:HB3	2.48	0.43
3:D:1310:ARG:HG2	3:D:1327:ARG:HB3	2.00	0.43
3:D:1472:ILE:HA	3:D:1473:PRO:HD3	1.83	0.43
3:D:1213:ARG:HB2	3:D:1214:PRO:CD	2.49	0.43
5:F:81:VAL:O	5:F:85:LEU:HG	2.19	0.43
5:P:117:SER:OG	5:P:124:PRO:HG3	2.18	0.43
2:C:611:ILE:HD11	2:C:641:PRO:HG3	2.01	0.43
2:M:547:ILE:HA	2:M:548:PRO:HD3	1.93	0.43
2:M:545:ASN:OD1	2:M:905:ILE:HD11	2.19	0.43
4:O:59:ASN:HB2	9:O:3494:HOH:O	2.19	0.43
2:C:1052:MET:SD	2:C:1056:LYS:HD3	2.58	0.43
3:N:1465:ASN:HD21	3:N:1470:ARG:HH11	1.65	0.43
1:A:20:TYR:HD2	1:A:21:GLY:N	2.08	0.43
2:C:1013:TYR:CZ	2:C:1063:ARG:NE	2.86	0.43
2:C:1063:ARG:HB2	9:D:9247:HOH:O	2.18	0.43
3:D:1236:LEU:HA	3:D:1359:GLN:CD	2.40	0.43
3:N:34:TYR:O	3:N:35:ARG:C	2.57	0.43
3:D:1109:GLU:HG2	3:D:1202:GLN:N	2.33	0.43
2:C:20:GLU:HG2	2:C:21:ILE:N	2.34	0.43
2:C:75:GLU:O	2:C:93:PRO:HG2	2.18	0.43
3:D:639:LEU:N	3:D:729:HIS:CD2	2.87	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:P:416:ARG:HD2	5:P:419:ARG:CB	2.49	0.43
2:M:227:PHE:HA	2:M:230:ARG:HH21	1.84	0.43
1:K:176:ARG:O	1:K:200:TRP:HE3	2.02	0.43
3:N:111:LYS:HD2	3:N:1452:ILE:HG12	2.00	0.43
3:N:688:TRP:HA	3:N:688:TRP:HE3	1.84	0.43
1:L:212:ASN:HA	9:L:2433:HOH:O	2.18	0.43
2:C:73:LEU:HG	9:C:9802:HOH:O	2.18	0.43
5:P:162:LYS:HA	5:P:165:SER:OG	2.18	0.43
3:N:544:TYR:HB3	9:N:9462:HOH:O	2.18	0.43
1:K:229:GLN:HE21	1:K:229:GLN:HB2	1.66	0.43
3:D:825:ALA:HB1	9:D:9252:HOH:O	2.19	0.43
4:E:41:GLU:HA	9:E:136:HOH:O	2.17	0.43
1:L:88:ARG:HD2	9:L:1915:HOH:O	2.17	0.43
2:C:1089:VAL:O	2:C:1093:GLN:HG2	2.19	0.43
3:N:759:ALA:HA	3:N:763:MET:HB3	2.00	0.43
3:N:494:LYS:HA	3:N:497:GLU:CD	2.40	0.43
3:N:482:LYS:HE3	9:N:9201:HOH:O	2.18	0.43
2:M:1056:LYS:HD2	9:M:1234:HOH:O	2.19	0.43
2:M:405:ARG:NH1	2:M:442:GLU:HG2	2.33	0.42
3:N:440:VAL:HG12	3:N:441:ARG:N	2.34	0.42
2:C:1088:LEU:HD21	2:C:1092:LEU:HD12	2.01	0.42
2:C:301:GLU:O	2:C:305:PRO:HG2	2.19	0.42
3:D:213:VAL:HG11	9:D:9561:HOH:O	2.19	0.42
3:D:553:ARG:NH1	5:F:214:GLN:HB2	2.34	0.42
1:A:189:ARG:HD2	1:A:191:ASP:OD2	2.18	0.42
1:K:195:LEU:HD12	1:K:196:THR:N	2.34	0.42
2:C:886:LEU:HD23	3:D:951:ILE:CG1	2.48	0.42
2:C:339:LEU:HG	9:C:9652:HOH:O	2.19	0.42
3:N:1026:SER:C	3:N:1028:ALA:H	2.21	0.42
4:E:72:ARG:NH2	9:E:102:HOH:O	2.50	0.42
2:M:473:ARG:HD3	2:M:474:VAL:N	2.34	0.42
3:N:123:LEU:HD21	3:N:152:LEU:HD22	2.01	0.42
1:L:51:THR:OG1	1:L:87:VAL:HG22	2.19	0.42
2:M:274:ARG:NE	9:M:2049:HOH:O	2.52	0.42
2:C:36:PRO:HB2	2:C:70:GLU:HG2	2.01	0.42
3:N:1045:MET:CG	3:N:1073:SER:HA	2.44	0.42
3:N:654:LYS:CD	3:N:674:ARG:HH22	2.31	0.42
1:A:9:PRO:HB3	1:A:25:LEU:CG	2.48	0.42
5:P:254:GLN:HA	9:P:707:HOH:O	2.19	0.42
3:D:1359:GLN:HE21	3:D:1359:GLN:HB3	1.59	0.42
1:L:186:LEU:N	9:L:1387:HOH:O	2.50	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:703:ASN:ND2	3:D:707:THR:HG23	2.33	0.42
3:N:1310:ARG:N	9:N:9288:HOH:O	2.51	0.42
1:K:131:THR:HG22	9:K:1923:HOH:O	2.17	0.42
3:N:169:TYR:N	3:N:170:PRO:HD3	2.34	0.42
3:D:1299:PHE:HD2	3:D:1299:PHE:N	2.16	0.42
3:D:764:LEU:HD23	3:D:767:HIS:CE1	2.52	0.42
2:M:770:GLU:N	9:M:1470:HOH:O	2.48	0.42
3:D:924:MET:O	3:D:927:THR:HB	2.19	0.42
2:M:242:LEU:HD23	2:M:243:ARG:H	1.84	0.42
2:M:261:ILE:HG21	9:M:1419:HOH:O	2.19	0.42
3:D:416:ALA:HB3	3:D:417:PRO:HD3	2.01	0.42
2:C:118:ILE:O	2:C:118:ILE:HD12	2.19	0.42
2:M:58:ASP:O	2:M:59:LYS:HG3	2.18	0.42
2:C:310:LEU:HD12	2:C:310:LEU:HA	1.86	0.42
2:M:692:GLU:HB2	2:M:853:LEU:O	2.19	0.42
2:C:313:LEU:HD12	2:C:313:LEU:O	2.19	0.42
3:N:551:ASN:O	3:N:555:LYS:HD2	2.20	0.42
5:F:273:ARG:HG2	9:F:622:HOH:O	2.19	0.42
3:N:1379:VAL:CG1	3:N:1395:LEU:HD23	2.47	0.42
3:N:1406:ARG:HG2	3:N:1407:LEU:HD13	2.00	0.42
3:N:950:GLY:C	3:N:952:ASP:N	2.70	0.42
2:M:473:ARG:HD2	2:M:475:VAL:CG2	2.49	0.42
2:M:18:LEU:HD23	2:M:404:LEU:CD2	2.49	0.42
2:M:139:GLN:CG	2:M:418:LEU:HD22	2.49	0.42
3:N:587:ARG:HB2	9:N:2283:HOH:O	2.19	0.42
4:O:10:PHE:HE2	4:O:16:LYS:HG3	1.83	0.42
1:L:89:PHE:CZ	1:L:146:ARG:HB3	2.54	0.42
3:N:630:VAL:HG12	3:N:631:ILE:N	2.33	0.42
2:M:265:ARG:HD3	2:M:267:TYR:HB3	2.00	0.42
3:N:1187:PRO:HG2	9:N:9329:HOH:O	2.19	0.42
1:B:85:LEU:HD12	1:B:124:ASN:HB3	2.00	0.42
5:P:133:ALA:HB2	5:P:142:ARG:HE	1.84	0.42
2:M:486:MET:CE	2:M:491:GLU:HA	2.49	0.42
3:D:1295:GLU:HB3	3:D:1300:SER:OG	2.19	0.42
5:F:375:LEU:HD23	5:F:376:ILE:HG13	2.02	0.42
2:C:220:GLY:HA3	9:C:9396:HOH:O	2.19	0.42
3:D:886:VAL:HG13	3:D:930:LEU:HD13	2.00	0.42
3:N:455:ARG:HB3	3:N:460:ALA:HB2	2.00	0.42
2:C:910:LYS:HG3	9:C:9658:HOH:O	2.19	0.42
2:M:353:ARG:HG2	9:M:1432:HOH:O	2.19	0.42
3:N:163:TYR:HE2	3:N:167:GLU:OE2	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:230:ARG:HG3	9:C:9876:HOH:O	2.18	0.42
3:N:168:THR:OG1	3:N:393:ILE:HB	2.20	0.42
3:N:1033:GLN:NE2	3:N:1036:ARG:NH1	2.55	0.42
3:N:521:PRO:O	3:N:525:ARG:NH1	2.53	0.42
2:C:212:GLY:C	2:C:215:GLY:H	2.23	0.42
3:D:389:GLU:HG2	3:D:389:GLU:O	2.19	0.42
3:N:28:LYS:HZ1	3:N:552:ASN:HD22	1.67	0.42
2:C:843:HIS:CD2	2:C:884:GLN:HA	2.54	0.42
2:M:176:VAL:C	2:M:178:PRO:HD3	2.39	0.42
3:D:798:GLU:HA	9:D:2151:HOH:O	2.20	0.42
3:D:804:LEU:N	9:D:2490:HOH:O	2.51	0.42
1:L:65:PHE:HB2	9:L:1369:HOH:O	2.17	0.42
3:D:462:GLN:HA	3:D:513:ILE:CD1	2.47	0.42
3:D:462:GLN:HB3	9:D:2118:HOH:O	2.19	0.42
2:M:899:GLN:HG3	2:M:901:TYR:OH	2.18	0.42
3:N:863:VAL:HG12	9:N:9874:HOH:O	2.17	0.42
3:N:1114:THR:CG2	3:N:1116:ASN:HD21	2.32	0.42
2:M:1037:VAL:HG13	2:M:1049:LEU:HD21	2.01	0.42
2:M:83:CYS:CA	2:M:88:LEU:HB3	2.43	0.42
3:N:728:LEU:HG	3:N:729:HIS:N	2.35	0.42
3:N:1047:LYS:HA	3:N:1053:PHE:CE1	2.53	0.42
3:D:1379:VAL:HA	3:D:1420:LEU:HB2	2.01	0.42
1:K:44:LEU:HD23	1:K:174:VAL:CG2	2.48	0.42
1:B:111:ALA:O	1:B:114:PHE:HD1	2.02	0.42
3:N:1271:LYS:HE3	3:N:1334:GLN:HE22	1.85	0.42
3:N:1346:ARG:HA	3:N:1346:ARG:NE	2.34	0.42
1:K:123:MET:C	1:K:125:PRO:HD3	2.40	0.42
2:C:817:PRO:C	2:C:819:VAL:H	2.21	0.42
2:C:760:SER:O	2:C:785:VAL:HG22	2.20	0.42
2:C:376:ARG:HB2	2:C:376:ARG:NH1	2.35	0.42
4:E:40:LEU:HD22	9:E:214:HOH:O	2.20	0.42
3:N:958:GLU:HG3	3:N:961:LYS:HE2	2.02	0.42
3:N:221:ALA:HB3	3:N:367:ILE:CB	2.49	0.42
3:N:176:ASP:O	3:N:180:LYS:HG3	2.19	0.42
2:M:938:LYS:O	2:M:942:GLU:HB2	2.19	0.42
1:B:51:THR:HA	1:B:145:ASP:O	2.18	0.42
3:D:938:GLY:O	3:D:942:SER:HB3	2.18	0.42
3:D:1047:LYS:HB3	3:D:1048:PRO:CD	2.49	0.42
2:C:987:ILE:CG2	3:D:948:THR:HG21	2.29	0.42
3:N:573:MET:SD	5:P:210:LEU:HB3	2.59	0.42
2:M:950:LEU:HA	9:M:1413:HOH:O	2.18	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1091:GLU:OE1	3:D:613:ARG:HG2	2.19	0.42
2:C:773:LEU:HD22	5:F:373:LYS:CB	2.50	0.42
2:C:260:LEU:HA	2:C:291:ALA:HB1	2.00	0.42
5:F:102:LEU:O	5:F:106:VAL:HG23	2.20	0.42
5:F:95:THR:HG23	5:F:234:LYS:NZ	2.34	0.42
3:D:131:LYS:NZ	9:D:2249:HOH:O	2.52	0.42
2:C:372:LEU:HD21	9:C:9063:HOH:O	2.19	0.42
5:F:400:ILE:HD13	9:F:481:HOH:O	2.19	0.42
5:F:88:ILE:O	5:F:92:PRO:HG3	2.20	0.42
2:M:872:ASN:ND2	2:M:874:LEU:HB2	2.34	0.42
1:A:67:THR:HG21	2:C:627:ARG:NE	2.30	0.42
3:D:1057:VAL:HA	3:D:1069:GLU:OE2	2.19	0.42
4:O:58:PRO:HD2	9:O:5431:HOH:O	2.19	0.42
2:M:897:LEU:CB	2:M:899:GLN:HE21	2.26	0.42
2:M:611:ILE:HD11	2:M:641:PRO:CG	2.49	0.42
3:N:666:ILE:HG22	3:N:684:LYS:NZ	2.35	0.42
3:N:1281:VAL:HG21	3:N:1313:VAL:HG21	2.01	0.42
2:C:1060:ILE:HA	2:C:1063:ARG:NH1	2.35	0.42
1:A:207:PRO:HB2	9:A:395:HOH:O	2.18	0.42
3:D:708:LEU:HD23	3:D:708:LEU:HA	1.88	0.42
1:L:184:THR:O	1:L:192:LEU:HB2	2.19	0.42
5:F:403:LYS:HA	5:F:403:LYS:HZ3	1.83	0.42
4:E:61:GLU:OE2	4:E:62:THR:N	2.52	0.42
3:D:441:ARG:O	3:D:443:VAL:N	2.52	0.42
2:C:1008:ARG:NH2	2:C:1021:LEU:O	2.52	0.42
3:N:1007:VAL:O	3:N:1010:ASN:HB3	2.19	0.42
1:K:72:LYS:HZ1	2:M:644:VAL:HG12	1.85	0.42
3:D:820:GLU:HA	3:D:825:ALA:O	2.20	0.42
3:D:162:ARG:O	3:D:162:ARG:HD3	2.19	0.42
2:M:191:PHE:CE2	2:M:196:LEU:HB2	2.54	0.42
3:N:400:VAL:HG22	9:N:9669:HOH:O	2.19	0.42
3:D:85:VAL:HG12	3:D:89:ARG:HE	1.85	0.42
3:D:93:ILE:HD12	3:D:519:VAL:CG2	2.47	0.42
3:N:525:ARG:N	3:N:526:PRO:HD3	2.35	0.42
5:F:184:ARG:HH21	5:F:221:ILE:CG2	2.33	0.42
3:D:133:ILE:HG22	3:D:455:ARG:C	2.40	0.42
2:C:707:ARG:HG3	2:C:826:TYR:CD1	2.55	0.42
2:C:885:ILE:HG21	3:D:949:ILE:HG22	2.02	0.42
2:M:365:ASP:O	2:M:367:LEU:HD12	2.19	0.42
2:C:853:LEU:HD23	2:C:858:MET:HB3	2.01	0.42
1:A:72:LYS:O	2:C:608:GLY:HA2	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:146:PRO:HG2	9:D:2681:HOH:O	2.18	0.42
5:F:220:LEU:HD21	5:F:235:PHE:CE2	2.55	0.42
2:C:1019:GLN:HG2	2:C:1019:GLN:H	1.61	0.42
2:M:73:LEU:HD23	2:M:94:LEU:HD22	2.02	0.42
3:N:674:ARG:HD3	9:N:2542:HOH:O	2.18	0.42
3:D:400:VAL:HB	9:D:2574:HOH:O	2.19	0.42
3:N:1101:VAL:CG1	3:N:1428:ALA:HB2	2.49	0.42
3:N:127:LEU:HD11	3:N:461:ILE:HD11	2.01	0.42
1:L:221:HIS:HA	1:L:224:TYR:CD2	2.54	0.42
3:N:1498:ALA:HB2	4:O:88:GLU:OE1	2.19	0.42
3:D:705:ALA:CB	3:D:706:PRO:HD3	2.48	0.42
3:N:34:TYR:N	3:N:34:TYR:CD2	2.87	0.42
5:P:271:LEU:CD1	5:P:307:THR:HB	2.49	0.42
1:A:193:ASP:N	1:A:193:ASP:OD1	2.52	0.42
2:C:164:PRO:HA	9:C:9763:HOH:O	2.19	0.42
3:D:1155:VAL:CG1	3:D:1177:ALA:HB1	2.49	0.42
1:A:173:PRO:O	1:A:201:THR:HG23	2.19	0.42
2:M:346:VAL:HG12	9:M:2249:HOH:O	2.20	0.42
3:N:65:ARG:HG3	3:N:66:GLN:N	2.32	0.42
1:A:58:ILE:HG21	1:A:68:ILE:HD11	2.01	0.42
3:N:1065:LEU:HD12	3:N:1069:GLU:OE1	2.19	0.42
2:M:603:VAL:HG13	2:M:613:VAL:HG12	2.01	0.42
1:K:211:LEU:O	1:K:215:VAL:HG13	2.19	0.42
5:P:104:ARG:HG2	9:P:571:HOH:O	2.20	0.42
1:L:13:VAL:HG13	1:L:23:PHE:CE1	2.54	0.42
3:D:683:ILE:HG23	3:D:687:VAL:HB	2.00	0.42
1:K:64:GLU:OE2	1:K:76:VAL:HG13	2.19	0.42
1:L:219:ARG:O	1:L:223:THR:HG23	2.19	0.42
1:B:96:THR:HB	9:B:437:HOH:O	2.19	0.42
2:C:323:ASP:HB2	9:C:9484:HOH:O	2.19	0.42
2:M:45:GLN:N	9:M:1760:HOH:O	2.53	0.42
3:N:553:ARG:NH1	9:N:9975:HOH:O	2.52	0.42
3:N:177:ALA:HB1	3:N:199:LEU:HB3	2.01	0.42
3:N:1033:GLN:HB3	9:N:9624:HOH:O	2.20	0.42
3:D:613:ARG:HA	3:D:613:ARG:HD2	1.78	0.42
3:D:62:LYS:N	9:D:9127:HOH:O	2.52	0.42
3:D:175:VAL:HG13	3:D:217:LYS:CB	2.49	0.42
5:F:190:ALA:HB1	9:F:630:HOH:O	2.19	0.42
2:M:368:THR:HB	2:M:369:PRO:CD	2.47	0.42
2:C:464:LEU:HD12	2:C:465:GLY:N	2.34	0.42
3:D:553:ARG:HD2	3:D:570:GLU:CD	2.38	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:182:VAL:HG12	9:M:1903:HOH:O	2.19	0.42
5:P:361:LEU:CD2	5:P:366:ALA:HB2	2.39	0.42
3:N:644:LEU:O	3:N:720:LEU:HA	2.19	0.42
3:N:206:ARG:HH11	3:N:206:ARG:HG2	1.85	0.42
5:F:260:ILE:HD11	5:F:310:ILE:CG2	2.50	0.42
3:N:950:GLY:O	3:N:951:ILE:C	2.55	0.42
2:C:626:ARG:HH12	2:C:637:LEU:CD1	2.31	0.42
2:M:910:LYS:HD2	2:M:910:LYS:N	2.34	0.42
2:M:861:LEU:HD23	2:M:862:PRO:HD2	2.01	0.42
3:N:428:LYS:HB3	3:N:450:TYR:CE1	2.53	0.42
2:M:328:LEU:HD11	2:M:434:HIS:CD2	2.55	0.42
3:N:148:GLU:HB3	3:N:151:GLN:CB	2.45	0.42
1:L:173:PRO:HA	1:L:202:ASP:OD2	2.19	0.42
3:N:1138:ALA:CA	3:N:1141:GLU:HG3	2.44	0.42
2:M:498:GLN:O	2:M:532:MET:SD	2.77	0.42
3:D:535:PHE:HB2	9:D:2022:HOH:O	2.19	0.42
3:N:1311:LEU:H	3:N:1311:LEU:HD23	1.84	0.42
3:D:1271:LYS:HD3	9:D:2230:HOH:O	2.18	0.42
2:M:682:TYR:HB2	9:M:1161:HOH:O	2.20	0.42
2:C:195:LEU:CD1	9:C:2092:HOH:O	2.65	0.42
4:O:31:LEU:HD11	4:O:60:ALA:HB2	2.02	0.42
2:C:640:ARG:CB	2:C:642:ARG:HH12	2.33	0.42
3:D:445:ARG:HG2	3:D:445:ARG:NH1	2.34	0.42
2:M:839:LEU:HD21	2:M:849:VAL:CG2	2.48	0.42
2:C:272:ALA:O	2:C:276:LYS:HE3	2.20	0.42
3:N:1197:ARG:HD2	3:N:1198:TYR:CE1	2.55	0.42
2:C:964:LYS:HD2	9:C:9183:HOH:O	2.19	0.42
3:D:724:GLN:N	9:D:2200:HOH:O	2.48	0.42
2:M:3:ILE:HA	2:M:900:ARG:O	2.20	0.42
3:N:852:ALA:O	3:N:857:ILE:HG12	2.20	0.42
1:L:137:ARG:HG3	9:L:2022:HOH:O	2.19	0.42
5:P:352:GLU:O	5:P:356:LYS:HG3	2.19	0.42
3:D:1485:GLN:HG2	3:D:1485:GLN:H	1.64	0.42
9:M:1234:HOH:O	3:N:751:LEU:HD12	2.19	0.42
3:D:1339:LYS:HG2	3:D:1343:ALA:HB2	2.01	0.42
2:M:779:GLY:HA3	9:M:1700:HOH:O	2.20	0.42
3:N:565:ILE:O	3:N:569:ASN:HB2	2.18	0.42
3:N:564:GLU:HA	3:N:567:ILE:HD12	2.02	0.42
5:P:185:GLN:O	5:P:189:GLU:HG3	2.20	0.42
2:C:1097:LEU:HD12	3:D:1451:ALA:HB2	2.02	0.42
3:D:521:PRO:HA	3:D:522:PRO:HD3	1.82	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:525:ARG:HA	3:D:538:SER:CB	2.44	0.42
2:M:1018:GLN:HG3	2:M:1060:ILE:HD11	2.01	0.42
3:N:44:LEU:O	3:N:525:ARG:NH2	2.53	0.42
5:F:369:LEU:HA	9:F:706:HOH:O	2.19	0.42
3:D:186:VAL:HG11	3:D:213:VAL:HB	2.00	0.42
3:N:13:ALA:O	3:N:511:TRP:HB3	2.19	0.42
3:D:553:ARG:HH11	5:F:214:GLN:CB	2.33	0.42
5:F:196:VAL:HG13	5:F:213:ILE:CD1	2.50	0.42
5:F:218:GLN:HG2	9:F:817:HOH:O	2.18	0.42
3:N:754:PHE:HA	4:O:24:ALA:CB	2.50	0.42
2:M:172:ILE:HD12	2:M:172:ILE:N	2.35	0.42
2:M:358:ARG:NH2	2:M:374:ASN:HB3	2.32	0.42
5:P:138:SER:O	5:P:141:VAL:HG12	2.20	0.42
1:L:143:ARG:HB2	9:L:3535:HOH:O	2.18	0.42
2:M:549:PHE:N	9:M:1643:HOH:O	2.52	0.42
2:M:577:PRO:HA	2:M:671:ASN:ND2	2.31	0.42
3:D:1066:THR:CG2	3:D:1069:GLU:HG3	2.48	0.42
3:N:537:THR:HG22	5:P:314:PRO:HB2	2.01	0.42
3:D:711:LEU:CD1	3:D:778:LEU:HD23	2.49	0.42
2:M:605:LYS:HB2	2:M:610:ARG:HH12	1.79	0.42
3:N:1109:GLU:HA	9:N:9843:HOH:O	2.19	0.42
3:N:95:LEU:HD23	3:N:574:LEU:HD21	2.01	0.42
3:D:36:THR:O	3:D:38:LYS:N	2.53	0.42
2:M:674:VAL:O	2:M:989:VAL:HA	2.18	0.42
3:N:1149:LEU:HD21	9:N:2153:HOH:O	2.18	0.42
1:B:101:LEU:HD12	1:B:114:PHE:CE1	2.55	0.42
3:N:1118:ILE:CG2	3:N:1346:ARG:HH22	2.32	0.42
2:C:265:ARG:HB2	9:C:9022:HOH:O	2.19	0.42
3:D:1302:GLU:HB3	9:D:9800:HOH:O	2.18	0.42
4:O:51:LEU:HD22	9:O:2325:HOH:O	2.19	0.42
1:L:48:ILE:HD12	1:L:174:VAL:HG21	2.01	0.42
3:N:712:GLY:HA2	9:N:9145:HOH:O	2.20	0.42
2:M:41:ASN:ND2	2:M:41:ASN:H	2.18	0.42
3:D:1294:VAL:O	3:D:1300:SER:HA	2.20	0.42
3:D:850:LEU:HG	3:D:850:LEU:H	1.47	0.42
3:D:818:ARG:HB2	9:D:9115:HOH:O	2.17	0.42
3:N:1150:ALA:O	3:N:1151:ARG:HD3	2.19	0.42
3:N:1441:GLN:HB3	9:N:9134:HOH:O	2.18	0.42
1:L:86:VAL:HG12	1:L:124:ASN:CG	2.40	0.42
3:N:223:LEU:N	3:N:365:ASP:O	2.50	0.42
1:B:217:ILE:O	1:B:221:HIS:ND1	2.53	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:169:ALA:HB1	1:L:171:PHE:CE2	2.55	0.42
3:D:4:GLU:HA	9:D:2324:HOH:O	2.20	0.42
3:N:56:TYR:HE2	3:N:69:GLU:HB2	1.85	0.42
2:M:212:GLY:C	2:M:215:GLY:H	2.23	0.42
3:N:199:LEU:N	9:N:9842:HOH:O	2.53	0.42
3:D:525:ARG:N	3:D:526:PRO:HD3	2.35	0.42
1:K:35:THR:HG21	1:L:43:ILE:CD1	2.46	0.42
2:C:208:ALA:HA	2:C:218:VAL:CG2	2.49	0.42
2:C:305:PRO:HG2	9:C:9047:HOH:O	2.20	0.42
3:N:96:ALA:HB1	3:N:554:LEU:HD12	2.02	0.42
3:D:1192:LEU:HD22	3:D:1345:GLU:CD	2.40	0.42
3:D:1223:ILE:CD1	3:D:1223:ILE:H	2.15	0.42
2:C:199:VAL:HG13	2:C:235:LEU:CG	2.49	0.42
5:F:363:GLU:HA	5:F:367:MET:HE3	1.99	0.42
2:M:677:MET:HB3	2:M:987:ILE:HD13	2.01	0.42
2:C:659:PRO:HD3	9:C:9247:HOH:O	2.19	0.42
3:D:955:VAL:HG21	3:D:1015:TYR:CE2	2.54	0.42
3:N:863:VAL:HG21	9:N:9558:HOH:O	2.20	0.42
3:N:853:VAL:HA	3:N:858:VAL:O	2.19	0.42
2:M:68:PHE:HE1	2:M:96:ALA:HB1	1.85	0.42
1:A:178:ALA:O	1:A:198:ARG:HG3	2.19	0.42
3:D:1487:VAL:HG22	9:D:9579:HOH:O	2.19	0.42
3:N:660:LYS:HD2	3:N:694:VAL:HG23	2.02	0.42
5:P:259:ARG:HG3	5:P:259:ARG:NH1	2.35	0.42
3:D:1152:GLU:HB3	9:D:2316:HOH:O	2.18	0.42
1:B:58:ILE:HD12	1:B:140:MET:CE	2.50	0.42
3:N:700:VAL:O	3:N:715:ALA:HA	2.19	0.42
3:D:957:PRO:CD	3:D:1007:VAL:HG12	2.49	0.42
3:D:644:LEU:O	3:D:720:LEU:HA	2.20	0.42
2:C:554:ASP:HB2	2:C:880:MET:HB2	2.01	0.42
4:O:29:GLN:HB2	4:O:29:GLN:HE21	1.70	0.42
3:D:662:GLU:HG3	3:D:669:ASN:HA	2.02	0.42
3:N:1054:GLU:HG2	9:N:9206:HOH:O	2.18	0.42
3:D:1405:GLU:OE2	3:D:1413:THR:HB	2.19	0.42
5:F:110:MET:CG	5:F:114:LYS:HE3	2.50	0.42
2:C:896:PHE:HB3	2:C:924:VAL:HB	2.00	0.42
2:C:834:GLN:HE21	2:C:834:GLN:HB2	1.63	0.42
3:D:1009:LYS:O	3:D:1013:GLU:HG3	2.20	0.42
3:N:565:ILE:HD11	5:P:189:GLU:HG2	2.02	0.42
3:D:42:ASP:HA	3:D:46:ASP:OD1	2.19	0.42
3:D:93:ILE:CD1	3:D:519:VAL:HG22	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:583:ASP:HB2	3:D:604:THR:OG1	2.19	0.42
3:D:1206:GLY:HA3	3:D:1366:LYS:HZ3	1.83	0.42
3:D:1264:GLU:OE1	3:D:1425:THR:HB	2.19	0.42
2:M:291:ALA:O	2:M:299:LYS:HE2	2.19	0.42
1:L:1:MET:O	1:L:6:LEU:HB2	2.20	0.42
3:N:179:VAL:O	3:N:183:GLU:HB2	2.20	0.42
5:F:94:LEU:HB2	5:F:98:GLU:OE2	2.20	0.42
3:N:30:GLU:HB3	3:N:40:GLU:CG	2.47	0.42
5:F:302:LYS:HA	9:F:599:HOH:O	2.19	0.42
3:D:1129:THR:O	3:D:1130:ARG:HD2	2.19	0.42
2:M:910:LYS:HB3	2:M:912:PRO:HD2	2.01	0.42
2:C:95:TYR:HD2	2:C:114:PHE:CB	2.26	0.42
1:L:112:ARG:NH1	1:L:126:ASP:HA	2.27	0.42
3:N:1106:VAL:O	3:N:1108:ARG:HG2	2.20	0.42
3:N:684:LYS:CB	3:N:686:GLU:HG3	2.50	0.42
3:D:190:GLU:HG3	3:D:210:ARG:CZ	2.49	0.42
1:B:184:THR:O	1:B:192:LEU:HB2	2.19	0.42
2:M:449:ILE:O	2:M:451:LEU:N	2.53	0.42
1:B:101:LEU:HD11	1:B:113:ASP:HB2	2.02	0.42
3:D:678:GLU:HB2	9:D:2080:HOH:O	2.20	0.42
2:M:1070:ILE:HG23	3:N:656:PHE:CD1	2.54	0.42
2:C:26:TYR:HB2	2:C:121:MET:CE	2.50	0.42
2:M:839:LEU:N	2:M:839:LEU:HD23	2.34	0.42
3:D:111:LYS:HE2	3:D:1452:ILE:HG12	2.02	0.42
3:D:1107:VAL:HA	3:D:1200:VAL:O	2.19	0.42
5:F:87:GLU:HB3	9:F:660:HOH:O	2.19	0.42
2:C:1006:HIS:N	2:C:1006:HIS:HD1	2.18	0.42
1:A:153:ALA:HA	1:A:156:HIS:CE1	2.55	0.42
3:N:209:ARG:HD2	9:N:9666:HOH:O	2.20	0.42
2:C:916:GLU:HB3	9:C:9202:HOH:O	2.19	0.42
3:D:1289:LYS:HE2	3:D:1306:PRO:HG3	2.02	0.42
4:O:36:LYS:HB2	9:O:6857:HOH:O	2.18	0.42
3:N:1107:VAL:O	3:N:1218:GLY:N	2.52	0.42
2:C:502:PRO:HB2	2:C:509:ALA:HB3	2.02	0.42
2:M:127:PHE:O	2:M:133:ASP:HA	2.20	0.42
3:D:1287:GLU:HB3	9:D:2572:HOH:O	2.20	0.42
2:C:761:PHE:CD1	2:C:761:PHE:N	2.88	0.42
1:L:12:THR:OG1	1:L:24:VAL:HB	2.20	0.42
2:C:959:PRO:HG2	9:C:2237:HOH:O	2.18	0.42
2:M:443:THR:HA	2:M:444:PRO:HD3	1.85	0.42
2:M:282:GLY:HA2	2:M:308:ARG:HH22	1.85	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:979:THR:HG23	2:C:981:GLU:HB2	2.02	0.42
5:F:321:ILE:O	5:F:327:SER:HB3	2.20	0.42
2:C:504:GLU:OE1	2:C:507:ARG:HD2	2.20	0.42
3:N:1011:PHE:HB3	3:N:1021:TYR:CG	2.55	0.42
3:D:1275:SER:HB3	3:D:1325:LEU:HD21	2.02	0.42
1:A:184:THR:HG23	1:A:192:LEU:HB2	2.02	0.42
3:D:1026:SER:C	3:D:1028:ALA:N	2.73	0.42
3:D:1129:THR:HG22	9:D:2169:HOH:O	2.20	0.42
2:C:137:VAL:O	2:C:391:LEU:HD11	2.19	0.42
2:C:418:LEU:HB2	9:C:9587:HOH:O	2.20	0.42
1:L:156:HIS:HE1	9:L:3186:HOH:O	2.03	0.42
3:N:133:ILE:HD12	3:N:158:TYR:CE2	2.55	0.42
3:N:535:PHE:O	5:P:314:PRO:CA	2.68	0.42
2:C:1001:VAL:HA	9:C:9140:HOH:O	2.19	0.42
2:C:1019:GLN:HB3	2:C:1019:GLN:HE21	1.65	0.42
2:C:140:ILE:HG12	2:C:411:SER:O	2.20	0.42
3:D:708:LEU:HB3	3:D:1231:GLU:HG3	2.02	0.42
1:A:31:GLY:N	1:A:193:ASP:OD2	2.52	0.42
1:B:99:LEU:HG	1:B:114:PHE:HB3	2.02	0.42
3:N:1274:ILE:HD11	3:N:1334:GLN:CD	2.40	0.42
3:N:973:GLN:HA	3:N:976:GLN:HE21	1.84	0.42
2:M:633:GLN:CD	2:M:633:GLN:H	2.23	0.42
2:C:911:GLU:HB3	2:C:912:PRO:HD3	2.02	0.42
5:P:328:PHE:O	5:P:331:ASP:HB2	2.20	0.42
3:D:1207:TYR:HE1	9:D:9139:HOH:O	2.02	0.42
3:D:33:ASN:HD22	3:D:34:TYR:N	2.18	0.42
1:K:88:ARG:HB2	1:K:204:SER:HA	2.02	0.42
2:C:165:LEU:HA	2:C:166:PRO:O	2.20	0.42
2:C:5:ARG:H	2:C:5:ARG:HG3	1.72	0.42
3:N:544:TYR:O	3:N:548:ILE:HG12	2.20	0.42
2:M:688:ILE:HD11	2:M:847:GLY:HA3	2.02	0.42
3:D:1191:PRO:HD3	3:D:1204:CYS:O	2.20	0.42
2:C:390:GLN:HG2	9:C:9061:HOH:O	2.19	0.42
2:C:950:LEU:HD11	3:D:1017:PHE:O	2.20	0.42
3:D:1307:LYS:NZ	9:D:9944:HOH:O	2.52	0.42
2:M:815:LEU:HD21	2:M:820:ARG:O	2.20	0.42
2:M:290:LEU:HB3	9:M:1355:HOH:O	2.19	0.41
5:P:84:TYR:HD2	5:P:192:LEU:HD13	1.85	0.41
5:P:134:LYS:HG3	5:P:178:ARG:NH2	2.35	0.41
3:D:1422:MET:CE	3:D:1426:LYS:HG2	2.50	0.41
3:D:450:TYR:O	3:D:452:ILE:HG22	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:146:VAL:HG13	2:M:161:SER:O	2.20	0.41
2:M:184:MET:CE	2:M:186:VAL:HG13	2.49	0.41
2:C:597:ALA:HB2	2:C:655:LEU:CD2	2.40	0.41
2:M:11:GLU:HG2	2:M:537:LYS:HZ1	1.85	0.41
2:M:906:PHE:HD1	3:N:1067:VAL:HG22	1.84	0.41
3:D:654:LYS:CB	3:D:655:PRO:HD3	2.49	0.41
3:N:535:PHE:O	5:P:314:PRO:HA	2.19	0.41
3:D:461:ILE:O	3:D:465:LEU:HB2	2.20	0.41
2:M:858:MET:HB2	2:M:859:PRO:CD	2.50	0.41
3:D:1122:LEU:HD23	3:D:1178:ALA:CB	2.47	0.41
1:K:131:THR:N	9:K:2174:HOH:O	2.53	0.41
2:M:151:ASP:HB2	2:M:157:ARG:O	2.20	0.41
3:D:1217:ILE:H	3:D:1217:ILE:HG13	1.58	0.41
3:D:929:ARG:NH1	3:D:929:ARG:HG3	2.33	0.41
2:M:1:MET:SD	2:M:900:ARG:HG3	2.60	0.41
1:L:71:VAL:HA	9:L:3336:HOH:O	2.19	0.41
3:D:671:LYS:HB2	9:D:9143:HOH:O	2.20	0.41
3:D:610:LYS:HE3	9:D:9460:HOH:O	2.19	0.41
2:M:72:ARG:HG2	9:M:1219:HOH:O	2.20	0.41
3:N:1089:ALA:HA	9:N:9308:HOH:O	2.20	0.41
2:C:945:ARG:CD	9:C:2219:HOH:O	2.58	0.41
3:D:28:LYS:HE2	3:D:41:ARG:NH2	2.35	0.41
3:D:28:LYS:HD3	3:D:41:ARG:CZ	2.50	0.41
2:M:1060:ILE:CG2	2:M:1061:GLU:N	2.83	0.41
2:C:1090:LYS:HG2	2:C:1112:PHE:HZ	1.86	0.41
2:C:54:ILE:HB	9:C:9517:HOH:O	2.20	0.41
2:C:478:VAL:HB	9:C:9898:HOH:O	2.19	0.41
3:D:1141:GLU:HG2	3:D:1168:MET:HE1	2.01	0.41
5:F:88:ILE:HD13	5:F:193:ARG:HD3	2.01	0.41
2:M:580:MET:O	2:M:902:ILE:HA	2.20	0.41
2:M:660:ALA:O	2:M:667:ALA:O	2.38	0.41
2:M:473:ARG:HD2	2:M:475:VAL:HG22	2.02	0.41
2:M:925:TYR:O	2:M:929:ARG:HG2	2.19	0.41
2:C:1039:ALA:O	2:C:1043:TYR:CD1	2.72	0.41
3:D:806:PHE:O	3:D:806:PHE:CG	2.72	0.41
1:L:114:PHE:CE2	1:L:142:VAL:HG22	2.55	0.41
2:M:1067:TYR:HE1	3:N:655:PRO:HG3	1.85	0.41
3:D:1495:ILE:HD11	9:E:141:HOH:O	2.21	0.41
3:D:1498:ALA:HB1	9:D:9843:HOH:O	2.19	0.41
3:D:477:LEU:HD23	9:D:2405:HOH:O	2.20	0.41
3:N:135:LEU:HD21	3:N:138:LYS:C	2.41	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1437:ALA:HA	3:D:1440:PHE:HE1	1.84	0.41
2:C:443:THR:HG21	2:C:450:GLY:N	2.33	0.41
1:A:58:ILE:HD13	1:A:140:MET:HB2	2.02	0.41
3:D:1091:SER:HB2	3:D:1234:THR:OG1	2.19	0.41
3:D:616:GLN:HE21	3:D:619:LEU:HD13	1.85	0.41
5:P:287:THR:O	5:P:289:GLU:N	2.53	0.41
3:N:1299:PHE:N	3:N:1299:PHE:CD2	2.89	0.41
3:N:180:LYS:HE2	3:N:219:GLU:CB	2.50	0.41
5:F:301:ALA:HB3	9:F:864:HOH:O	2.19	0.41
2:M:739:GLU:HG3	9:M:1158:HOH:O	2.20	0.41
2:M:290:LEU:HB3	2:M:302:VAL:CG1	2.50	0.41
2:M:309:TYR:HD1	9:M:1833:HOH:O	2.02	0.41
2:C:358:ARG:HB3	2:C:371:LYS:O	2.20	0.41
3:N:426:LYS:HD2	9:P:828:HOH:O	2.20	0.41
3:N:436:GLU:HG3	9:N:9929:HOH:O	2.20	0.41
2:M:1018:GLN:HG2	3:N:87:ARG:HH22	1.86	0.41
3:D:187:LYS:HA	3:D:187:LYS:HD3	1.78	0.41
5:P:371:LEU:O	5:P:375:LEU:HB3	2.20	0.41
5:F:291:ILE:HG23	5:F:292:ALA:N	2.35	0.41
5:F:414:ARG:NH1	5:F:414:ARG:HG2	2.34	0.41
3:N:1384:PRO:CG	3:N:1389:LEU:HB3	2.51	0.41
3:D:462:GLN:HB2	3:D:513:ILE:HG21	2.00	0.41
2:M:557:ARG:HE	2:M:879:ARG:HG2	1.85	0.41
3:N:907:GLU:CD	3:N:909:ASN:HD22	2.24	0.41
3:N:37:LEU:HD22	3:N:535:PHE:HZ	1.85	0.41
3:N:130:SER:O	3:N:568:ARG:NH2	2.52	0.41
3:D:629:SER:O	3:D:744:GLN:HG2	2.20	0.41
3:N:1137:ARG:O	3:N:1138:ALA:C	2.57	0.41
1:L:58:ILE:HD13	1:L:140:MET:HB2	2.02	0.41
2:M:96:ALA:N	9:M:2309:HOH:O	2.53	0.41
5:P:340:SER:O	5:P:342:VAL:N	2.52	0.41
2:C:178:PRO:HA	9:C:9133:HOH:O	2.20	0.41
1:K:156:HIS:HD2	1:K:157:GLY:H	1.66	0.41
2:M:432:ARG:NH1	3:N:1048:PRO:HD3	2.35	0.41
5:F:419:ARG:N	9:F:881:HOH:O	2.51	0.41
4:E:57:ASP:N	4:E:58:PRO:HD3	2.36	0.41
4:E:2:ALA:N	9:E:107:HOH:O	2.53	0.41
3:D:1293:PHE:CE2	3:D:1302:GLU:HB2	2.55	0.41
3:N:477:LEU:HA	9:N:9517:HOH:O	2.20	0.41
2:C:1025:ALA:HB1	9:C:9792:HOH:O	2.20	0.41
3:N:137:PRO:HD2	3:N:453:ASP:HB2	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:637:LEU:HA	2:M:659:PRO:HG3	2.02	0.41
1:K:85:LEU:HD12	1:K:124:ASN:HB3	2.02	0.41
2:M:1103:ASP:N	2:M:1107:ASN:O	2.54	0.41
3:D:724:GLN:HG3	3:D:725:SER:N	2.35	0.41
2:M:564:MET:HG2	2:M:840:ALA:HB3	2.02	0.41
2:C:69:LEU:HB2	2:C:97:ARG:HB2	2.02	0.41
3:N:1246:VAL:HG11	9:N:2237:HOH:O	2.20	0.41
2:M:881:ASN:H	2:M:881:ASN:ND2	2.18	0.41
3:D:916:TYR:CE2	3:D:920:LEU:HD22	2.55	0.41
3:N:1261:GLU:HG3	9:N:9286:HOH:O	2.20	0.41
1:A:96:THR:N	9:A:555:HOH:O	2.52	0.41
2:C:1076:VAL:CG2	3:D:752:SER:HA	2.50	0.41
3:D:1074:SER:O	3:D:1077:ALA:HB3	2.20	0.41
3:D:438:ASP:OD2	3:D:440:VAL:HB	2.19	0.41
5:F:378:GLY:N	9:F:915:HOH:O	2.52	0.41
2:M:191:PHE:HZ	2:M:196:LEU:HB2	1.80	0.41
5:P:164:LYS:HA	5:P:171:LYS:HZ2	1.84	0.41
2:M:462:ASP:CG	2:M:463:GLU:H	2.22	0.41
2:C:333:ILE:O	2:C:465:GLY:HA3	2.20	0.41
3:D:560:GLN:CG	5:F:218:GLN:HE22	2.33	0.41
3:D:530:VAL:N	3:D:534:ARG:O	2.39	0.41
3:N:513:ILE:HB	9:N:2037:HOH:O	2.20	0.41
1:B:89:PHE:CB	1:B:94:LEU:HD13	2.43	0.41
2:C:1067:TYR:CG	5:F:341:PRO:HB3	2.54	0.41
2:M:166:PRO:HD3	2:M:265:ARG:CG	2.50	0.41
9:B:583:HOH:O	3:D:813:LEU:HD21	2.19	0.41
1:A:199:ILE:N	1:A:199:ILE:HD12	2.35	0.41
5:F:151:LEU:HB2	5:F:155:THR:H	1.84	0.41
3:N:1271:LYS:HG2	3:N:1272:ALA:N	2.36	0.41
1:K:50:GLY:HA3	1:K:173:PRO:HG3	2.02	0.41
3:D:1049:SER:OG	3:D:1050:GLY:N	2.54	0.41
2:M:189:ARG:HD2	9:M:2033:HOH:O	2.21	0.41
2:M:491:GLU:O	2:M:496:ILE:HD11	2.20	0.41
3:N:1012:GLU:HG2	3:N:1013:GLU:N	2.35	0.41
2:M:603:VAL:HG23	2:M:647:GLN:O	2.20	0.41
1:K:198:ARG:HH12	2:M:934:PHE:HD1	1.68	0.41
3:N:774:SER:C	3:N:776:GLU:N	2.74	0.41
5:P:179:GLU:O	5:P:182:ALA:HB3	2.20	0.41
1:B:217:ILE:HG23	1:B:221:HIS:CE1	2.55	0.41
1:B:33:GLY:O	1:B:195:LEU:HD22	2.21	0.41
3:D:221:ALA:HB3	3:D:367:ILE:CB	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1121:PRO:HB3	9:N:9257:HOH:O	2.18	0.41
1:A:44:LEU:O	1:A:174:VAL:HG21	2.19	0.41
3:D:1047:LYS:HG2	3:D:1053:PHE:CE2	2.54	0.41
2:C:946:ARG:CD	2:C:984:GLU:HB2	2.51	0.41
2:M:191:PHE:HA	9:M:2299:HOH:O	2.21	0.41
2:M:952:LEU:HD22	2:M:952:LEU:N	2.35	0.41
3:D:90:MET:HG2	3:D:521:PRO:HD3	2.03	0.41
2:C:1090:LYS:HA	2:C:1090:LYS:HD3	1.81	0.41
2:M:460:ARG:HG3	9:M:1149:HOH:O	2.20	0.41
5:F:79:ASP:HB3	5:F:80:PRO:HD2	2.01	0.41
3:D:1120:VAL:HA	3:D:1121:PRO:HD3	1.84	0.41
2:C:136:ILE:HG23	2:C:391:LEU:CD2	2.51	0.41
2:M:458:TYR:CD2	2:M:470:PRO:HG3	2.56	0.41
2:M:474:VAL:HG13	2:M:530:GLU:C	2.41	0.41
2:M:611:ILE:N	2:M:611:ILE:HD12	2.36	0.41
3:N:131:LYS:HG2	3:N:568:ARG:HG2	2.01	0.41
5:F:235:PHE:CE2	5:F:239:ALA:HB2	2.55	0.41
3:N:1156:LEU:N	9:N:9269:HOH:O	2.53	0.41
3:D:481:MET:O	3:D:489:ARG:HB2	2.20	0.41
1:B:28:LEU:HG	1:B:193:ASP:O	2.20	0.41
2:M:383:ARG:HH11	2:M:383:ARG:HB2	1.84	0.41
1:B:101:LEU:HD21	1:B:113:ASP:HB3	2.01	0.41
5:F:421:PHE:C	5:F:423:ASP:H	2.23	0.41
2:C:1012:PRO:HD2	2:C:1021:LEU:O	2.21	0.41
2:C:1021:LEU:HB2	9:C:2027:HOH:O	2.20	0.41
2:C:267:TYR:HB2	2:C:272:ALA:CB	2.51	0.41
2:M:598:GLU:HB3	2:M:599:GLU:OE1	2.20	0.41
3:N:1456:LYS:HB3	3:N:1456:LYS:HZ2	1.85	0.41
2:C:425:PHE:HB3	9:C:9705:HOH:O	2.19	0.41
1:K:182:GLU:HG3	1:K:194:LYS:HD3	2.02	0.41
3:N:1000:THR:HG22	9:N:9995:HOH:O	2.19	0.41
3:D:1104:GLU:O	3:D:1106:VAL:HG23	2.20	0.41
2:C:165:LEU:HD12	2:C:166:PRO:CA	2.51	0.41
2:C:1101:THR:HB	3:D:5:VAL:CG1	2.50	0.41
3:N:548:ILE:HG12	9:N:9462:HOH:O	2.20	0.41
3:D:917:GLN:HE22	3:D:921:ARG:CZ	2.33	0.41
1:K:100:LEU:HB3	9:K:1835:HOH:O	2.21	0.41
3:D:162:ARG:NH2	3:D:434:ARG:NH2	2.69	0.41
2:M:304:LEU:HD12	2:M:308:ARG:HD3	2.01	0.41
3:D:583:ASP:OD2	3:D:604:THR:HG21	2.21	0.41
1:K:38:ASN:O	1:K:42:ARG:HG3	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:36:LEU:C	1:K:39:PRO:HD2	2.40	0.41
2:C:207:LEU:HD22	2:C:221:LEU:CD2	2.50	0.41
2:C:260:LEU:HD23	2:C:261:ILE:HG12	2.01	0.41
2:M:460:ARG:HB3	9:M:1929:HOH:O	2.20	0.41
2:M:720:GLU:HA	2:M:759:THR:O	2.21	0.41
3:D:1220:ALA:HB1	3:D:1223:ILE:CD1	2.42	0.41
3:D:798:GLU:HB2	3:D:828:LYS:HE2	2.02	0.41
3:D:808:THR:HB	3:D:809:PRO:CD	2.44	0.41
2:C:672:VAL:CG2	2:C:869:VAL:HG12	2.51	0.41
1:B:91:ASN:H	1:B:94:LEU:HD12	1.85	0.41
3:N:953:ASP:OD1	3:N:1019:PRO:HG2	2.21	0.41
2:M:11:GLU:HG2	2:M:537:LYS:NZ	2.35	0.41
2:M:435:TYR:O	2:M:437:ARG:N	2.54	0.41
3:N:528:VAL:HG12	3:N:529:GLN:N	2.35	0.41
3:N:1468:LEU:HD23	3:N:1468:LEU:O	2.20	0.41
3:N:1472:ILE:HA	3:N:1473:PRO:HD3	1.88	0.41
3:D:1256:LEU:HB3	3:D:1257:PRO:HD3	2.03	0.41
3:N:1123:PHE:CA	3:N:1135:ARG:H	2.27	0.41
5:F:282:LEU:HD12	5:F:284:ARG:O	2.21	0.41
3:D:1271:LYS:HZ1	3:D:1334:GLN:HE22	1.68	0.41
3:N:1376:MET:SD	3:N:1421:LEU:HD13	2.60	0.41
1:K:48:ILE:CD1	1:K:210:ALA:HB1	2.50	0.41
3:N:618:LEU:HG	9:N:2300:HOH:O	2.20	0.41
2:C:905:ILE:N	2:C:905:ILE:HD12	2.35	0.41
4:O:43:GLU:HG2	4:O:44:GLU:N	2.34	0.41
1:A:101:LEU:HD21	1:A:113:ASP:HB3	2.02	0.41
5:F:108:GLU:HG3	5:F:176:ILE:CG2	2.51	0.41
3:N:502:PHE:CE2	3:N:1452:ILE:HG13	2.55	0.41
3:N:840:LYS:HB3	3:N:841:TYR:CE2	2.56	0.41
5:F:228:GLU:HG3	5:F:230:LYS:HE3	2.03	0.41
3:N:799:LYS:HE3	9:N:9536:HOH:O	2.19	0.41
3:N:988:ARG:CZ	3:N:1054:GLU:OE2	2.69	0.41
3:D:826:PRO:HD2	3:D:829:VAL:HG22	2.01	0.41
3:N:1153:VAL:HG12	3:N:1155:VAL:HG22	2.02	0.41
3:D:721:VAL:HA	9:D:9555:HOH:O	2.19	0.41
2:M:1024:LYS:HB3	9:M:2236:HOH:O	2.20	0.41
3:N:24:GLY:HA2	9:N:9460:HOH:O	2.20	0.41
3:D:50:PHE:CB	3:D:522:PRO:HG2	2.50	0.41
2:C:200:LEU:HD13	2:C:300:ASP:OD2	2.21	0.41
2:M:462:ASP:HB3	2:M:468:ARG:CD	2.36	0.41
3:D:804:LEU:HD12	3:D:804:LEU:O	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:361:LEU:HD13	5:F:366:ALA:HB1	2.02	0.41
2:C:521:PRO:CB	3:D:1055:VAL:HB	2.47	0.41
2:M:575:GLN:O	2:M:667:ALA:HB1	2.21	0.41
1:K:63:HIS:HA	9:K:6181:HOH:O	2.20	0.41
2:M:799:ILE:HD13	2:M:799:ILE:H	1.84	0.41
2:M:1039:ALA:O	2:M:1043:TYR:HD1	2.04	0.41
2:M:145:GLY:H	2:M:163:ILE:HG13	1.86	0.41
2:M:265:ARG:HB3	2:M:267:TYR:CD2	2.55	0.41
1:A:59:GLU:HG3	1:A:139:ASN:CG	2.40	0.41
5:P:403:LYS:HZ3	5:P:406:ARG:HD2	1.82	0.41
2:M:833:LEU:CD1	2:M:996:LYS:HD2	2.50	0.41
3:N:1123:PHE:HA	3:N:1134:LEU:CA	2.48	0.41
1:K:101:LEU:HD23	1:K:102:LYS:H	1.86	0.41
4:E:26:ARG:CZ	4:E:73:LEU:HD21	2.51	0.41
2:M:648:ARG:HG2	2:M:648:ARG:H	1.59	0.41
2:M:1101:THR:HB	3:N:5:VAL:CG1	2.48	0.41
4:E:85:LEU:HD23	4:E:86:GLN:N	2.35	0.41
3:N:389:GLU:HG2	3:N:389:GLU:H	1.67	0.41
3:D:168:THR:O	3:D:393:ILE:N	2.53	0.41
1:K:159:LYS:NZ	9:K:3394:HOH:O	2.53	0.41
1:A:123:MET:O	1:A:125:PRO:HD3	2.21	0.41
2:C:134:ARG:N	9:C:9111:HOH:O	2.49	0.41
5:P:197:SER:O	5:P:200:LYS:HB3	2.20	0.41
2:M:352:ALA:HA	2:M:355:VAL:CG1	2.51	0.41
2:C:73:LEU:HB3	2:C:94:LEU:HB2	2.01	0.41
3:D:829:VAL:HG13	9:D:9705:HOH:O	2.20	0.41
3:D:1357:ARG:HD3	9:D:2093:HOH:O	2.21	0.41
3:N:506:GLY:C	3:N:507:ASN:HD22	2.24	0.41
2:M:585:GLU:O	2:M:588:VAL:HG22	2.20	0.41
5:P:357:ALA:HA	9:P:483:HOH:O	2.20	0.41
3:N:596:SER:HA	9:N:2183:HOH:O	2.21	0.41
5:F:279:GLN:HB2	9:F:466:HOH:O	2.21	0.41
3:N:1269:LYS:HG3	9:N:9265:HOH:O	2.20	0.41
2:C:432:ARG:HH12	3:D:1047:LYS:CG	2.33	0.41
5:P:87:GLU:O	5:P:91:VAL:HG22	2.19	0.41
2:C:367:LEU:HB3	2:C:371:LYS:CG	2.50	0.41
2:C:1115:LEU:CD1	2:C:1115:LEU:N	2.82	0.41
2:C:148:PHE:CZ	2:C:281:LEU:HD13	2.51	0.41
3:D:176:ASP:HA	9:D:9636:HOH:O	2.19	0.41
2:C:435:TYR:C	2:C:437:ARG:N	2.74	0.41
3:D:565:ILE:O	3:D:569:ASN:HB2	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:66:LEU:CD2	2:C:372:LEU:HD23	2.46	0.41
2:C:507:ARG:CZ	2:C:507:ARG:HB2	2.50	0.41
3:D:1023:MET:O	3:D:1028:ALA:HB3	2.20	0.41
2:M:358:ARG:HD3	9:M:1139:HOH:O	2.21	0.41
3:N:800:LYS:HG2	9:N:9283:HOH:O	2.19	0.41
2:C:430:VAL:CG1	3:D:1075:HIS:HA	2.48	0.41
2:C:546:LEU:HD21	2:C:587:VAL:HG21	2.03	0.41
4:O:57:ASP:N	4:O:58:PRO:HD3	2.36	0.41
2:M:392:SER:C	2:M:393:GLN:HG3	2.41	0.41
3:N:1213:ARG:HD3	9:N:9639:HOH:O	2.20	0.41
1:B:156:HIS:CG	1:B:157:GLY:N	2.88	0.41
3:N:616:GLN:HE21	3:N:619:LEU:HB2	1.82	0.41
2:C:1005:MET:HE1	3:D:648:MET:HB2	2.03	0.41
2:M:48:PHE:O	2:M:52:PHE:HB2	2.21	0.41
3:N:658:LEU:HD13	3:N:670:VAL:HG13	2.03	0.41
2:M:78:PHE:CB	2:M:88:LEU:HD21	2.51	0.41
2:C:1100:GLN:O	2:C:1102:LEU:HD12	2.21	0.41
2:C:405:ARG:NE	2:C:566:THR:HG21	2.35	0.41
3:N:1242:HIS:HE1	3:N:1266:ARG:NH1	2.19	0.41
1:L:27:PRO:HG2	1:L:186:LEU:CD1	2.51	0.41
1:K:58:ILE:HG22	9:K:1296:HOH:O	2.21	0.41
3:N:1463:LYS:HA	3:N:1463:LYS:HD3	1.85	0.41
2:C:237:ARG:CB	9:C:2092:HOH:O	2.67	0.41
2:C:729:LEU:HD11	9:D:9550:HOH:O	2.20	0.41
3:N:117:ASP:HB2	3:N:495:ARG:HH21	1.85	0.41
3:D:177:ALA:CA	3:D:199:LEU:HD13	2.50	0.41
3:D:695:ILE:HG21	3:D:720:LEU:HD11	2.03	0.41
3:N:767:HIS:NE2	4:O:6:ILE:HD13	2.35	0.41
3:D:930:LEU:HD12	3:D:934:LEU:HG	2.02	0.41
2:M:92:ALA:HB2	2:M:120:LEU:CD1	2.50	0.41
1:L:118:ALA:HB2	9:L:4508:HOH:O	2.20	0.41
2:M:142:ARG:HG3	9:M:1228:HOH:O	2.20	0.41
3:N:1139:ASP:O	3:N:1142:ALA:HB3	2.21	0.41
2:M:249:LYS:HB2	9:M:1514:HOH:O	2.19	0.41
3:D:1045:MET:HG2	3:D:1073:SER:CA	2.25	0.41
2:C:983:ILE:CG2	2:C:987:ILE:HD11	2.50	0.41
2:M:208:ALA:HB1	2:M:218:VAL:CG1	2.51	0.41
2:C:110:GLU:HB2	2:C:368:THR:HG22	2.01	0.41
5:P:163:LEU:HD13	5:P:174:LEU:CD2	2.46	0.41
2:C:1097:LEU:CD2	2:C:1097:LEU:H	2.22	0.41
3:D:1364:HIS:NE2	3:D:1366:LYS:HE3	2.36	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:39:PRO:HG3	1:L:39:PRO:CG	2.51	0.41
2:C:287:GLY:O	2:C:288:ARG:C	2.58	0.41
2:C:289:THR:O	2:C:291:ALA:N	2.54	0.41
1:K:27:PRO:HG2	1:K:186:LEU:CD2	2.46	0.41
2:C:478:VAL:HG13	2:C:506:ASN:HB3	2.02	0.41
1:A:24:VAL:HG22	1:A:196:THR:HB	2.03	0.41
5:P:371:LEU:HB3	5:P:375:LEU:HD22	2.02	0.41
3:D:805:GLU:CG	9:D:2490:HOH:O	2.69	0.41
2:C:674:VAL:O	2:C:989:VAL:HA	2.21	0.41
3:D:1171:VAL:HG12	3:D:1171:VAL:O	2.21	0.41
3:D:1147:ARG:H	3:D:1166:LEU:HD23	1.86	0.41
3:N:18:ILE:HD12	3:N:518:PRO:HD3	2.03	0.41
2:C:141:HIS:CB	2:C:418:LEU:HG	2.50	0.41
2:M:18:LEU:HD23	2:M:404:LEU:CD1	2.51	0.41
3:D:643:GLY:HA2	3:D:719:VAL:HG23	2.03	0.41
2:C:837:ASP:OD1	2:C:996:LYS:HE3	2.21	0.41
2:M:274:ARG:O	2:M:274:ARG:HG2	2.21	0.41
2:M:287:GLY:O	2:M:288:ARG:C	2.60	0.41
2:C:714:ASP:N	9:C:9031:HOH:O	2.54	0.41
3:N:1462:LEU:N	3:N:1462:LEU:HD23	2.36	0.41
5:P:403:LYS:HA	5:P:403:LYS:HZ3	1.82	0.41
3:N:1432:LYS:H	3:N:1432:LYS:HG3	1.54	0.41
1:B:27:PRO:C	1:B:28:LEU:HD23	2.40	0.41
3:N:598:ARG:HA	3:N:599:PRO:HD3	1.94	0.41
2:C:146:VAL:HB	9:C:9633:HOH:O	2.21	0.41
5:F:421:PHE:HD2	9:F:486:HOH:O	2.03	0.41
3:D:107:ASP:O	3:D:108:VAL:C	2.59	0.41
1:A:11:PHE:HB3	1:B:227:ASN:O	2.21	0.41
1:L:84:GLU:OE2	3:N:844:ALA:HB1	2.21	0.41
3:D:111:LYS:HZ1	3:D:1452:ILE:CG2	2.33	0.41
5:F:289:GLU:HG2	9:F:440:HOH:O	2.20	0.41
3:D:1496:GLU:OE1	3:D:1500:LYS:HG3	2.20	0.41
2:M:1001:VAL:O	2:M:1004:LYS:HB3	2.21	0.41
2:C:721:ARG:O	2:C:759:THR:N	2.54	0.41
5:P:201:LYS:HD3	9:P:693:HOH:O	2.19	0.41
2:C:48:PHE:HA	2:C:348:LEU:HD21	2.03	0.41
2:M:520:GLU:HA	2:M:521:PRO:HD3	1.89	0.41
3:D:819:GLY:HA3	9:D:9279:HOH:O	2.21	0.41
2:C:327:HIS:CE1	2:C:489:THR:HA	2.56	0.41
2:M:1095:LEU:HD23	3:N:582:LEU:CD2	2.51	0.41
5:F:316:SER:HB3	5:F:318:GLU:O	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:229:GLN:HG2	9:K:1527:HOH:O	2.20	0.41
3:N:411:THR:HG21	9:N:2373:HOH:O	2.21	0.41
3:N:702:LEU:HG	3:N:745:MET:HE1	2.03	0.41
2:M:380:ALA:O	2:M:384:GLU:HB2	2.21	0.41
3:N:142:LEU:HD12	3:N:142:LEU:O	2.21	0.41
3:D:451:ASP:HB2	9:D:2626:HOH:O	2.20	0.41
1:A:16:GLN:NE2	1:A:17:GLY:N	2.69	0.41
2:C:860:HIS:CE1	2:C:977:GLY:HA2	2.55	0.41
3:D:964:LEU:HD22	3:D:1058:ARG:NH1	2.35	0.41
2:M:972:VAL:HA	9:M:2014:HOH:O	2.20	0.41
3:N:1063:GLU:HG3	3:N:1064:GLY:H	1.86	0.41
3:D:116:LEU:HB3	3:D:118:LEU:HD21	2.03	0.41
5:P:184:ARG:O	5:P:188:ILE:HG13	2.21	0.41
3:N:178:LEU:CD2	3:N:199:LEU:H	2.34	0.41
3:D:26:VAL:N	9:D:2403:HOH:O	2.53	0.41
3:D:584:ASN:HD21	3:D:590:PRO:HD2	1.85	0.41
3:D:1101:VAL:HG12	3:D:1374:GLN:HB3	2.03	0.41
2:C:435:TYR:O	2:C:437:ARG:N	2.54	0.41
2:C:352:ALA:C	2:C:355:VAL:HG12	2.41	0.41
2:M:10:ARG:HA	2:M:10:ARG:NH1	2.22	0.41
1:B:87:VAL:CG2	1:B:144:VAL:HG11	2.39	0.41
3:N:1406:ARG:HG3	3:N:1406:ARG:HH11	1.86	0.41
2:C:135:VAL:HB	2:C:406:HIS:CE1	2.56	0.41
2:M:332:ARG:HA	9:M:1427:HOH:O	2.21	0.41
2:M:611:ILE:CD1	2:M:625:LEU:HD11	2.50	0.41
3:D:806:PHE:O	3:D:806:PHE:CD1	2.74	0.41
3:N:658:LEU:O	3:N:661:MET:HB2	2.20	0.41
3:N:666:ILE:HA	3:N:684:LYS:HZ2	1.86	0.41
2:C:380:ALA:O	2:C:383:ARG:HG2	2.20	0.41
2:C:21:ILE:HD12	2:C:21:ILE:N	2.33	0.41
4:E:64:ALA:O	4:E:67:GLU:HG3	2.21	0.41
2:C:601:GLY:HA3	2:C:615:TYR:HA	2.02	0.41
2:M:348:LEU:O	2:M:348:LEU:HD12	2.21	0.41
3:N:430:ASP:HB3	3:N:431:VAL:H	1.74	0.41
2:C:83:CYS:HA	2:C:88:LEU:CB	2.50	0.41
5:P:200:LYS:HE3	9:P:769:HOH:O	2.19	0.41
2:M:51:THR:HG23	9:M:1496:HOH:O	2.21	0.41
3:N:1404:ASN:ND2	9:N:2499:HOH:O	2.53	0.41
1:B:20:TYR:CE2	1:B:198:ARG:HD2	2.56	0.41
3:N:19:ARG:HH11	3:N:19:ARG:HG3	1.85	0.41
2:C:847:GLY:HA3	9:C:9481:HOH:O	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:661:SER:N	9:C:9179:HOH:O	2.54	0.41
1:B:150:TYR:HB2	3:D:855:HIS:CD2	2.56	0.41
5:P:185:GLN:HA	5:P:188:ILE:HD12	2.02	0.40
3:N:573:MET:SD	5:P:210:LEU:HD22	2.61	0.40
2:C:1115:LEU:HB3	3:D:85:VAL:HG12	2.02	0.40
3:D:74:GLU:CD	3:D:75:ARG:HH12	2.25	0.40
3:D:493:ARG:HE	3:D:1388:ARG:CB	2.28	0.40
2:C:284:ARG:HD2	2:C:301:GLU:OE1	2.20	0.40
5:F:94:LEU:HD23	5:F:95:THR:N	2.36	0.40
3:D:564:GLU:HB3	9:D:2249:HOH:O	2.20	0.40
2:C:876:VAL:O	2:C:879:ARG:O	2.39	0.40
2:M:835:VAL:HG13	3:N:725:SER:OG	2.21	0.40
3:D:194:GLY:HA2	9:D:9486:HOH:O	2.21	0.40
2:C:690:ILE:HD13	2:C:691:SER:O	2.21	0.40
5:P:291:ILE:HG13	5:P:304:VAL:HG21	2.03	0.40
2:M:984:GLU:O	3:N:946:GLY:HA3	2.20	0.40
3:N:1038:LEU:O	3:N:1060:SER:HB2	2.21	0.40
2:M:874:LEU:HD21	3:N:787:LEU:HD23	2.03	0.40
5:F:249:ARG:HH21	5:F:262:VAL:HG23	1.83	0.40
2:M:437:ARG:HG2	2:M:467:ILE:HG22	2.01	0.40
2:M:1020:PRO:HD2	2:M:1057:SER:OG	2.21	0.40
2:C:36:PRO:CB	2:C:70:GLU:HG2	2.50	0.40
5:P:338:LEU:HA	5:P:339:PRO:HD3	1.86	0.40
3:D:155:ASP:HB2	9:D:9396:HOH:O	2.21	0.40
1:L:191:ASP:N	1:L:191:ASP:OD1	2.54	0.40
3:N:1165:TYR:HB2	9:N:2622:HOH:O	2.21	0.40
3:N:1243:THR:HG22	3:N:1244:GLY:N	2.36	0.40
3:D:704:ARG:HE	3:D:705:ALA:N	2.15	0.40
3:N:868:TYR:CE2	3:N:880:ILE:HD11	2.56	0.40
1:A:206:THR:HG22	1:A:209:GLU:CB	2.49	0.40
2:C:660:ALA:O	2:C:667:ALA:O	2.39	0.40
2:M:633:GLN:CD	2:M:633:GLN:N	2.75	0.40
2:M:676:ILE:CG2	2:M:988:VAL:HG22	2.51	0.40
1:K:85:LEU:HD12	1:K:127:LEU:HD23	2.04	0.40
1:A:114:PHE:HZ	1:A:142:VAL:HG11	1.85	0.40
1:L:206:THR:HG22	1:L:209:GLU:CG	2.51	0.40
5:F:194:LEU:HD11	9:F:597:HOH:O	2.20	0.40
1:K:227:ASN:HA	9:K:1490:HOH:O	2.20	0.40
2:C:958:THR:O	2:C:962:GLN:HG3	2.21	0.40
3:N:502:PHE:CZ	3:N:1452:ILE:HG13	2.56	0.40
3:N:925:GLU:OE2	4:O:5:GLY:HA2	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:574:LEU:O	3:D:577:ALA:HB3	2.21	0.40
3:D:99:ALA:HB1	3:D:575:GLN:OE1	2.21	0.40
3:N:1102:THR:O	3:N:1102:THR:HG22	2.20	0.40
2:M:745:ILE:HD12	9:M:1767:HOH:O	2.21	0.40
2:C:27:ARG:HA	9:C:9319:HOH:O	2.20	0.40
5:P:90:GLN:HB3	5:P:90:GLN:HE21	1.61	0.40
2:M:622:GLU:O	2:M:624:PRO:HD3	2.20	0.40
5:F:321:ILE:HD11	5:F:329:TYR:HB2	2.02	0.40
3:N:26:VAL:HG23	9:N:9132:HOH:O	2.21	0.40
3:D:179:VAL:HB	9:D:9636:HOH:O	2.21	0.40
3:D:1310:ARG:HA	9:D:9220:HOH:O	2.22	0.40
5:F:164:LYS:HA	5:F:171:LYS:HZ2	1.86	0.40
2:M:172:ILE:HG22	2:M:173:ASP:N	2.35	0.40
2:C:565:GLN:HG2	2:C:995:MET:HE1	2.03	0.40
1:L:41:ARG:CZ	1:L:177:VAL:HG23	2.51	0.40
2:C:42:VAL:HA	2:C:46:ALA:HB2	2.03	0.40
3:N:1422:MET:HE3	3:N:1426:LYS:HG2	2.03	0.40
2:M:996:LYS:HE2	9:M:1267:HOH:O	2.21	0.40
1:B:186:LEU:HD21	9:B:532:HOH:O	2.20	0.40
1:L:184:THR:CG2	9:L:7412:HOH:O	2.69	0.40
2:C:147:TYR:HE2	2:C:280:LYS:HZ2	1.67	0.40
3:D:111:LYS:NZ	3:D:1452:ILE:HB	2.36	0.40
2:C:816:LYS:HA	9:C:2136:HOH:O	2.22	0.40
3:D:1097:LYS:HE3	9:D:9369:HOH:O	2.20	0.40
3:N:580:ALA:HA	3:N:584:ASN:OD1	2.20	0.40
1:A:91:ASN:H	1:A:94:LEU:HD12	1.86	0.40
2:M:147:TYR:HE2	2:M:280:LYS:HD3	1.85	0.40
3:D:588:GLY:N	9:D:2504:HOH:O	2.55	0.40
3:N:799:LYS:N	3:N:826:PRO:HG2	2.35	0.40
1:L:46:SER:HB2	9:N:9448:HOH:O	2.20	0.40
3:N:642:CYS:SG	3:N:716:PHE:HB2	2.61	0.40
2:M:21:ILE:HD12	2:M:21:ILE:H	1.86	0.40
2:M:847:GLY:HA2	3:N:741:ASP:HA	2.03	0.40
5:F:301:ALA:N	9:F:468:HOH:O	2.54	0.40
3:D:1246:VAL:HA	9:D:2113:HOH:O	2.21	0.40
2:C:242:LEU:HA	2:C:242:LEU:HD23	1.89	0.40
1:A:136:GLY:HA3	9:A:318:HOH:O	2.20	0.40
3:D:138:LYS:HA	9:D:2484:HOH:O	2.21	0.40
3:D:1047:LYS:HB3	3:D:1048:PRO:HD2	2.04	0.40
2:C:984:GLU:CG	3:D:944:THR:HG22	2.51	0.40
3:N:421:LEU:HD12	3:N:444:VAL:HG23	2.04	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:1051:GLU:HB3	9:M:1321:HOH:O	2.20	0.40
3:D:569:ASN:O	3:D:573:MET:SD	2.80	0.40
4:O:24:ALA:O	4:O:28:GLN:NE2	2.54	0.40
3:N:61:GLY:HA3	3:N:64:LYS:NZ	2.37	0.40
3:N:83:SER:O	3:N:86:ARG:HB3	2.22	0.40
2:C:675:ALA:HA	2:C:989:VAL:CG1	2.45	0.40
2:C:674:VAL:HG21	2:C:871:LEU:HD12	2.02	0.40
2:C:135:VAL:HG11	2:C:406:HIS:O	2.21	0.40
2:M:334:ARG:NH1	2:M:418:LEU:HD11	2.36	0.40
1:L:89:PHE:CD2	1:L:146:ARG:NH2	2.89	0.40
3:N:654:LYS:CB	3:N:655:PRO:HD3	2.46	0.40
5:P:339:PRO:HB3	5:P:343:ASP:HB2	2.01	0.40
3:N:8:VAL:HG12	3:N:1434:TRP:CH2	2.56	0.40
3:N:208:PRO:CB	3:N:395:VAL:HG22	2.49	0.40
3:D:807:ALA:N	9:D:9131:HOH:O	2.54	0.40
3:N:408:GLU:H	3:N:408:GLU:HG3	1.64	0.40
2:C:272:ALA:N	9:C:9013:HOH:O	2.54	0.40
5:P:421:PHE:C	5:P:423:ASP:H	2.24	0.40
5:F:331:ASP:N	9:F:427:HOH:O	2.52	0.40
3:N:957:PRO:CD	3:N:1007:VAL:HG12	2.52	0.40
2:C:899:GLN:HG3	2:C:901:TYR:CZ	2.56	0.40
1:A:52:ALA:HB2	1:A:170:VAL:O	2.21	0.40
3:D:1282:ARG:HD3	3:D:1295:GLU:OE1	2.20	0.40
2:M:84:ARG:NH1	2:M:84:ARG:HB2	2.36	0.40
5:P:113:ILE:HA	5:P:116:LEU:HD12	2.03	0.40
2:C:35:PRO:HB3	9:C:9710:HOH:O	2.22	0.40
2:M:980:GLY:HA2	9:M:1302:HOH:O	2.21	0.40
3:N:1148:VAL:HG13	3:N:1163:GLY:O	2.21	0.40
2:M:14:PRO:HD2	9:M:2041:HOH:O	2.21	0.40
2:C:945:ARG:HB3	9:C:2219:HOH:O	2.22	0.40
2:M:1051:GLU:HG2	2:M:1055:LEU:HD12	2.03	0.40
3:D:1465:ASN:ND2	3:D:1470:ARG:HB3	2.36	0.40
3:D:493:ARG:NH2	3:D:1388:ARG:HB3	2.36	0.40
3:D:550:ARG:HD3	9:D:9553:HOH:O	2.21	0.40
2:C:474:VAL:HB	2:C:479:VAL:HG12	2.03	0.40
3:N:52:PRO:HD2	3:N:79:GLU:O	2.22	0.40
2:C:876:VAL:HB	2:C:877:PRO:HD3	2.03	0.40
2:M:545:ASN:CG	2:M:905:ILE:HD11	2.41	0.40
4:E:70:THR:HG22	4:E:71:GLY:H	1.85	0.40
4:E:72:ARG:N	9:E:100:HOH:O	2.53	0.40
2:C:15:LEU:HD13	2:C:583:LEU:HD11	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:876:VAL:HG11	2:M:885:ILE:HD11	2.02	0.40
2:M:1013:TYR:CE1	2:M:1020:PRO:HG3	2.45	0.40
1:L:42:ARG:HG2	1:L:42:ARG:NH1	2.35	0.40
2:M:751:PRO:HA	2:M:792:VAL:CG1	2.52	0.40
2:M:791:ARG:HH21	3:N:678:GLU:CD	2.25	0.40
1:L:50:GLY:HA3	1:L:173:PRO:HG3	2.04	0.40
2:M:854:PRO:C	2:M:856:GLU:N	2.73	0.40
2:M:107:LEU:HG	2:M:107:LEU:O	2.21	0.40
2:M:78:PHE:CD1	2:M:88:LEU:HD21	2.56	0.40
3:N:10:ILE:O	3:N:1454:GLY:HA2	2.22	0.40
2:M:447:ALA:HA	9:M:2111:HOH:O	2.22	0.40
3:D:928:ALA:O	3:D:931:LEU:HB2	2.21	0.40
5:F:154:LYS:O	5:F:158:GLU:HG3	2.22	0.40
2:C:57:GLU:O	2:C:62:GLY:HA3	2.21	0.40
3:N:466:LYS:HE2	9:N:2020:HOH:O	2.22	0.40
1:A:103:ALA:HB1	1:A:107:LYS:HD3	2.03	0.40
3:D:108:VAL:HB	3:D:109:PRO:HD3	2.03	0.40
3:D:729:HIS:ND1	3:D:731:LEU:N	2.67	0.40
1:A:49:PRO:HA	1:A:148:VAL:HG22	2.02	0.40
3:N:1400:VAL:HG21	9:N:2376:HOH:O	2.21	0.40
3:N:1008:PHE:O	3:N:1012:GLU:HB3	2.21	0.40
3:N:1364:HIS:CD2	3:N:1366:LYS:HE3	2.56	0.40
3:D:967:ALA:HB1	3:D:995:LEU:HD11	2.03	0.40
3:N:1323:GLN:HE21	3:N:1323:GLN:HB2	1.69	0.40
3:N:1289:LYS:HD3	9:N:9576:HOH:O	2.21	0.40
2:C:83:CYS:SG	2:C:88:LEU:HD23	2.62	0.40
5:F:247:ILE:HG22	5:F:251:ILE:HD11	2.03	0.40
1:A:75:VAL:HA	1:A:78:ILE:HD12	2.04	0.40
5:F:280:GLN:OE1	5:F:281:GLU:HB2	2.22	0.40
2:M:120:LEU:HB2	9:M:1327:HOH:O	2.21	0.40
2:C:688:ILE:N	2:C:688:ILE:HD12	2.36	0.40
5:F:288:TYR:CD1	5:F:288:TYR:N	2.89	0.40
5:F:130:VAL:HG21	5:F:159:ILE:HG21	2.04	0.40
3:N:1074:SER:O	3:N:1077:ALA:HB3	2.20	0.40
3:D:421:LEU:HD12	3:D:435:VAL:CG1	2.51	0.40
2:M:159:ILE:C	9:M:1212:HOH:O	2.59	0.40
2:C:110:GLU:H	2:C:368:THR:HG21	1.86	0.40
3:D:92:HIS:HA	3:D:519:VAL:HG23	2.02	0.40
3:D:211:VAL:HG12	9:D:9908:HOH:O	2.21	0.40
2:M:721:ARG:O	2:M:759:THR:N	2.52	0.40
5:P:393:THR:O	5:P:397:ILE:HG13	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:82:LYS:HB3	3:N:83:SER:H	1.48	0.40
2:C:232:GLU:O	2:C:235:LEU:HB2	2.22	0.40
2:M:26:TYR:CZ	2:M:30:LEU:HD21	2.57	0.40
2:M:1030:GLN:HE22	3:N:628:ARG:NH2	2.07	0.40
2:C:1007:ALA:HB1	3:D:652:LEU:CD1	2.51	0.40
3:D:32:ILE:HG12	3:D:38:LYS:O	2.22	0.40
2:M:93:PRO:HA	9:M:1466:HOH:O	2.20	0.40
3:D:165:LYS:HD2	9:D:2397:HOH:O	2.20	0.40
3:D:208:PRO:CB	3:D:395:VAL:HG22	2.46	0.40
3:N:470:LEU:N	3:N:470:LEU:HD23	2.36	0.40
3:N:1264:GLU:CD	3:N:1425:THR:HB	2.42	0.40
2:M:833:LEU:HD12	2:M:833:LEU:HA	1.93	0.40
3:N:1258:ARG:HG3	3:N:1262:LEU:CD1	2.51	0.40
2:M:428:ARG:HD3	2:M:449:ILE:HG23	2.02	0.40
3:D:1412:LYS:HE3	3:D:1414:PRO:CG	2.51	0.40
3:D:1487:VAL:O	4:E:73:LEU:HD23	2.21	0.40
3:N:1267:ARG:HG2	9:N:2282:HOH:O	2.21	0.40
4:O:31:LEU:HA	4:O:35:PHE:HD1	1.86	0.40
4:O:39:VAL:CG2	4:O:72:ARG:HG3	2.50	0.40
3:D:675:ARG:HH22	5:F:419:ARG:NH2	2.19	0.40
2:M:1109:VAL:HG21	3:N:3:LYS:O	2.22	0.40
3:N:2:LYS:N	9:N:2350:HOH:O	2.55	0.40
1:A:46:SER:HB3	2:C:856:GLU:CD	2.42	0.40
4:E:54:LEU:HA	4:E:58:PRO:CG	2.51	0.40
2:C:878:SER:N	9:C:9546:HOH:O	2.53	0.40
3:D:965:GLU:HG3	3:D:969:ARG:HH21	1.86	0.40
3:N:135:LEU:HD11	3:N:139:GLY:HA3	2.04	0.40
1:B:140:MET:HG2	9:B:467:HOH:O	2.21	0.40
3:N:633:VAL:O	3:N:635:PRO:HD3	2.20	0.40
3:D:168:THR:O	3:D:392:SER:HA	2.22	0.40
2:C:532:MET:N	9:C:9955:HOH:O	2.53	0.40
2:M:74:GLY:O	2:M:76:PRO:HD3	2.21	0.40
3:N:1130:ARG:N	9:N:2064:HOH:O	2.53	0.40
2:C:203:ASP:OD1	2:C:206:THR:HG22	2.22	0.40
3:N:767:HIS:CE1	4:O:2:ALA:HB1	2.57	0.40
1:A:66:SER:HB3	9:A:333:HOH:O	2.21	0.40
2:C:632:ASN:ND2	9:C:9837:HOH:O	2.52	0.40
2:C:524:VAL:HG22	2:C:528:GLU:CD	2.41	0.40
2:C:761:PHE:HD2	9:C:9711:HOH:O	2.04	0.40
5:F:118:GLU:HG2	9:F:503:HOH:O	2.20	0.40
3:N:27:GLU:H	3:N:27:GLU:HG2	1.69	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:660:LYS:HD2	3:D:663:GLU:OE2	2.20	0.40
1:K:6:LEU:HD11	9:K:2204:HOH:O	2.22	0.40
3:D:106:LYS:NZ	3:D:125:GLN:HB2	2.36	0.40

There are no symmetry-related clashes.

## 5.3 Torsion angles [i](#)

### 5.3.1 Protein backbone [i](#)

In the following table, the Percentiles column shows the percent Ramachandran outliers of the chain as a percentile score with respect to all 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%)	200 (88%)	22 (10%)	5 (2%)	8	9
1	B	227/315 (72%)	200 (88%)	22 (10%)	5 (2%)	8	9
1	K	227/315 (72%)	200 (88%)	23 (10%)	4 (2%)	11	13
1	L	227/315 (72%)	200 (88%)	23 (10%)	4 (2%)	11	13
2	C	1117/1119 (100%)	927 (83%)	138 (12%)	52 (5%)	3	2
2	M	1117/1119 (100%)	926 (83%)	142 (13%)	49 (4%)	3	2
3	D	1388/1524 (91%)	1155 (83%)	168 (12%)	65 (5%)	3	2
3	N	1388/1524 (91%)	1133 (82%)	187 (14%)	68 (5%)	3	1
4	E	93/99 (94%)	76 (82%)	13 (14%)	4 (4%)	3	2
4	O	93/99 (94%)	76 (82%)	13 (14%)	4 (4%)	3	2
5	F	341/423 (81%)	290 (85%)	35 (10%)	16 (5%)	3	2
5	P	341/423 (81%)	288 (84%)	38 (11%)	15 (4%)	3	2
All	All	6786/7590 (89%)	5671 (84%)	824 (12%)	291 (4%)	3	2

All (291) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	29	GLU

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Mol	Chain	Res	Type
1	B	29	GLU
1	B	48	ILE
2	C	152	PRO
2	C	231	PRO
2	C	244	PRO
2	C	288	ARG
2	C	290	LEU
2	C	369	PRO
2	C	465	GLY
2	C	548	PRO
2	C	680	ASP
2	C	908	GLY
2	C	1106	ASP
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	381	ALA
3	D	385	VAL
3	D	440	VAL
3	D	504	ASP
3	D	783	ARG
3	D	832	ARG
3	D	1028	ALA
3	D	1129	THR
3	D	1208	ASP
3	D	1243	THR
3	D	1441	GLN
4	E	42	PRO
4	E	58	PRO
5	F	147	LEU
5	F	153	PRO
5	F	329	TYR
5	F	390	PHE
1	K	29	GLU

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Mol	Chain	Res	Type
1	L	29	GLU
2	M	152	PRO
2	M	231	PRO
2	M	244	PRO
2	M	261	ILE
2	M	262	ALA
2	M	288	ARG
2	M	290	LEU
2	M	369	PRO
2	M	462	ASP
2	M	465	GLY
2	M	548	PRO
2	M	680	ASP
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	82	LYS
3	N	137	PRO
3	N	208	PRO
3	N	209	ARG
3	N	217	LYS
3	N	238	PRO
3	N	246	PRO
3	N	370	ALA
3	N	373	PRO
3	N	381	ALA
3	N	385	VAL
3	N	504	ASP
3	N	783	ARG
3	N	832	ARG
3	N	1028	ALA
3	N	1125	PRO
3	N	1129	THR
3	N	1208	ASP
3	N	1243	THR
3	N	1441	GLN
4	O	42	PRO
4	O	58	PRO
5	P	147	LEU

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Mol	Chain	Res	Type
5	P	153	PRO
5	P	390	PHE
1	B	187	GLY
2	C	59	LYS
2	C	156	GLY
2	C	164	PRO
2	C	170	PRO
2	C	178	PRO
2	C	261	ILE
2	C	262	ALA
2	C	363	SER
2	C	400	PRO
2	C	462	ASP
2	C	517	ARG
2	C	529	VAL
2	C	626	ARG
2	C	864	GLY
2	C	1004	LYS
3	D	96	ALA
3	D	417	PRO
3	D	451	ASP
3	D	594	PRO
3	D	609	GLY
3	D	803	GLY
3	D	844	ALA
4	E	53	GLY
5	F	232	ARG
5	F	324	GLU
5	F	341	PRO
1	L	187	GLY
2	M	59	LYS
2	M	156	GLY
2	M	164	PRO
2	M	170	PRO
2	M	178	PRO
2	M	517	ARG
2	M	626	ARG
2	M	1097	LEU
3	N	96	ALA
3	N	417	PRO
3	N	440	VAL
3	N	451	ASP

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Mol	Chain	Res	Type
3	N	594	PRO
3	N	609	GLY
3	N	803	GLY
3	N	822	ALA
3	N	844	ALA
4	O	53	GLY
5	P	232	ARG
5	P	324	GLU
5	P	341	PRO
1	A	187	GLY
2	C	144	PRO
2	C	251	ASP
2	C	268	ASP
2	C	418	LEU
2	C	436	GLY
2	C	727	PRO
2	C	1097	LEU
3	D	31	THR
3	D	34	TYR
3	D	37	LEU
3	D	231	VAL
3	D	416	ALA
3	D	782	SER
3	D	822	ALA
3	D	1385	GLY
5	F	97	GLU
5	F	286	PRO
5	F	325	LYS
5	F	420	ASP
1	K	187	GLY
2	M	251	ASP
2	M	268	ASP
2	M	363	SER
2	M	436	GLY
2	M	529	VAL
2	M	627	ARG
2	M	727	PRO
2	M	1079	PRO
3	N	31	THR
3	N	34	TYR
3	N	37	LEU
3	N	416	ALA

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Mol	Chain	Res	Type
3	N	424	GLY
3	N	705	ALA
3	N	1385	GLY
5	P	286	PRO
5	P	288	TYR
5	P	325	LYS
1	A	106	PRO
1	B	188	GLN
2	C	40	GLU
2	C	74	GLY
2	C	111	ASP
2	C	180	GLY
2	C	292	ARG
2	C	336	VAL
2	C	627	ARG
2	C	1079	PRO
3	D	24	GLY
3	D	170	PRO
3	D	387	LEU
3	D	424	GLY
3	D	522	PRO
3	D	808	THR
3	D	1248	GLY
3	D	1389	LEU
5	F	288	TYR
5	F	297	PRO
5	F	364	ARG
1	K	106	PRO
1	K	188	GLN
2	M	40	GLU
2	M	74	GLY
2	M	180	GLY
2	M	420	ARG
3	N	24	GLY
3	N	170	PRO
3	N	387	LEU
3	N	425	GLY
3	N	782	SER
3	N	808	THR
3	N	1248	GLY
3	N	1388	ARG
5	P	393	THR

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Mol	Chain	Res	Type
5	P	420	ASP
1	A	188	GLN
1	B	106	PRO
2	C	420	ARG
2	C	1024	LYS
3	D	46	ASP
3	D	120	ALA
3	D	425	GLY
3	D	526	PRO
3	D	696	HIS
3	D	705	ALA
3	D	1288	GLU
1	L	106	PRO
1	L	188	GLN
2	M	223	ASP
2	M	282	GLY
2	M	292	ARG
2	M	418	LEU
2	M	457	ALA
2	M	1024	LYS
3	N	46	ASP
3	N	231	VAL
3	N	415	VAL
3	N	522	PRO
3	N	526	PRO
3	N	613	ARG
3	N	1213	ARG
3	N	1286	THR
3	N	1342	GLU
5	P	97	GLU
5	P	297	PRO
5	P	364	ARG
2	C	425	PHE
2	C	447	ALA
2	C	779	GLY
2	C	905	ILE
3	D	533	GLY
3	D	670	VAL
3	D	1213	ARG
2	M	336	VAL
2	M	447	ALA
2	M	779	GLY

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Mol	Chain	Res	Type
3	N	98	PRO
3	N	1197	ARG
3	D	415	VAL
3	D	1064	GLY
5	F	167	PRO
3	N	173	PRO
3	N	1064	GLY
3	N	1306	PRO
3	N	1349	VAL
5	P	167	PRO
2	C	79	PRO
2	C	282	GLY
2	C	767	PRO
3	D	173	PRO
4	E	5	GLY
2	M	400	PRO
2	M	767	PRO
3	N	670	VAL
4	O	5	GLY
1	A	9	PRO
2	C	424	GLY
3	D	595	GLY
3	N	368	VAL
3	N	530	VAL
3	D	136	ASP
3	D	530	VAL
5	F	285	GLU
2	M	79	PRO
2	M	144	PRO
3	N	169	TYR
3	N	595	GLY
3	D	169	TYR
3	D	407	VAL
3	D	1306	PRO
3	D	1349	VAL
3	N	407	VAL
2	M	166	PRO
2	C	166	PRO

### 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%)	149 (74%)	53 (26%)	0	0
1	B	202/273 (74%)	167 (83%)	35 (17%)	2	2
1	K	202/273 (74%)	154 (76%)	48 (24%)	1	1
1	L	202/273 (74%)	152 (75%)	50 (25%)	1	1
2	C	941/941 (100%)	722 (77%)	219 (23%)	1	1
2	M	941/941 (100%)	731 (78%)	210 (22%)	1	1
3	D	1123/1279 (88%)	861 (77%)	262 (23%)	1	1
3	N	1123/1279 (88%)	832 (74%)	291 (26%)	0	0
4	E	83/87 (95%)	65 (78%)	18 (22%)	1	1
4	O	83/87 (95%)	61 (74%)	22 (26%)	0	0
5	F	295/370 (80%)	234 (79%)	61 (21%)	1	1
5	P	295/370 (80%)	242 (82%)	53 (18%)	2	2
All	All	5692/6446 (88%)	4370 (77%)	1322 (23%)	1	1

All (1322) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	1	MET
1	A	4	SER
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	62	LEU
1	A	73	GLU

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Mol	Chain	Res	Type
1	A	74	ASP
1	A	84	GLU
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	115	LEU
1	A	119	ASP
1	A	120	VAL
1	A	121	GLU
1	A	127	LEU
1	A	137	ARG
1	A	139	ASN
1	A	145	ASP
1	A	159	LYS
1	A	167	VAL
1	A	168	ASP
1	A	170	VAL
1	A	176	ARG
1	A	179	PHE
1	A	180	GLN
1	A	183	ASP
1	A	186	LEU
1	A	188	GLN
1	A	189	ARG
1	A	190	THR
1	A	191	ASP
1	A	193	ASP
1	A	196	THR
1	A	197	LEU
1	A	198	ARG
1	A	204	SER
1	A	211	LEU
1	A	215	VAL
1	A	227	ASN
1	A	229	GLN
1	B	1	MET
1	B	7	LYS
1	B	9	PRO

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Mol	Chain	Res	Type
1	B	25	LEU
1	B	26	GLU
1	B	38	ASN
1	B	62	LEU
1	B	65	PHE
1	B	77	GLU
1	B	80	LEU
1	B	81	ASN
1	B	88	ARG
1	B	89	PHE
1	B	94	LEU
1	B	95	GLN
1	B	101	LEU
1	B	112	ARG
1	B	119	ASP
1	B	128	HIS
1	B	138	LEU
1	B	140	MET
1	B	145	ASP
1	B	150	TYR
1	B	159	LYS
1	B	161	ARG
1	B	176	ARG
1	B	186	LEU
1	B	190	THR
1	B	193	ASP
1	B	200	TRP
1	B	208	LEU
1	B	209	GLU
1	B	220	GLU
1	B	221	HIS
1	B	224	TYR
2	C	5	ARG
2	C	15	LEU
2	C	20	GLU
2	C	22	GLN
2	C	26	TYR
2	C	30	LEU
2	C	31	GLN
2	C	34	VAL
2	C	41	ASN
2	C	48	PHE

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Mol	Chain	Res	Type
2	C	52	PHE
2	C	55	GLU
2	C	65	VAL
2	C	71	TYR
2	C	72	ARG
2	C	88	LEU
2	C	89	THR
2	C	90	TYR
2	C	91	GLN
2	C	95	TYR
2	C	98	LEU
2	C	100	LEU
2	C	102	HIS
2	C	104	ASP
2	C	107	LEU
2	C	108	ILE
2	C	110	GLU
2	C	111	ASP
2	C	114	PHE
2	C	115	LEU
2	C	117	HIS
2	C	133	ASP
2	C	140	ILE
2	C	141	HIS
2	C	143	SER
2	C	150	PRO
2	C	152	PRO
2	C	158	TYR
2	C	163	ILE
2	C	170	PRO
2	C	178	PRO
2	C	187	ASN
2	C	198	ARG
2	C	205	GLU
2	C	209	ARG
2	C	219	GLN
2	C	221	LEU
2	C	222	MET
2	C	229	MET
2	C	237	ARG
2	C	240	THR
2	C	250	ARG

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Mol	Chain	Res	Type
2	C	252	LYS
2	C	254	VAL
2	C	260	LEU
2	C	266	ARG
2	C	267	TYR
2	C	268	ASP
2	C	275	TYR
2	C	278	GLU
2	C	279	GLU
2	C	281	LEU
2	C	285	LEU
2	C	286	SER
2	C	288	ARG
2	C	290	LEU
2	C	293	PHE
2	C	294	GLU
2	C	297	GLU
2	C	303	PHE
2	C	304	LEU
2	C	308	ARG
2	C	309	TYR
2	C	321	GLU
2	C	323	ASP
2	C	332	ARG
2	C	338	GLU
2	C	343	GLN
2	C	345	ARG
2	C	348	LEU
2	C	357	GLU
2	C	359	MET
2	C	360	LEU
2	C	361	MET
2	C	363	SER
2	C	365	ASP
2	C	366	SER
2	C	367	LEU
2	C	371	LYS
2	C	376	ARG
2	C	379	GLU
2	C	384	GLU
2	C	388	ARG
2	C	393	GLN

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Mol	Chain	Res	Type
2	C	396	ASP
2	C	400	PRO
2	C	402	SER
2	C	408	ARG
2	C	413	LEU
2	C	420	ARG
2	C	425	PHE
2	C	429	ASP
2	C	430	VAL
2	C	432	ARG
2	C	443	THR
2	C	448	ASN
2	C	452	ILE
2	C	454	SER
2	C	455	LEU
2	C	469	THR
2	C	474	VAL
2	C	479	VAL
2	C	486	MET
2	C	491	GLU
2	C	492	ASP
2	C	494	TYR
2	C	496	ILE
2	C	502	PRO
2	C	503	LEU
2	C	524	VAL
2	C	527	GLU
2	C	532	MET
2	C	533	ASP
2	C	543	ASN
2	C	556	ASN
2	C	557	ARG
2	C	564	MET
2	C	566	THR
2	C	583	LEU
2	C	584	GLU
2	C	585	GLU
2	C	589	ARG
2	C	607	ASP
2	C	620	LEU
2	C	622	GLU
2	C	627	ARG

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Mol	Chain	Res	Type
2	C	633	GLN
2	C	640	ARG
2	C	645	VAL
2	C	657	ASP
2	C	663	ASN
2	C	668	LEU
2	C	672	VAL
2	C	679	PHE
2	C	685	GLU
2	C	690	ILE
2	C	697	ARG
2	C	698	ASP
2	C	699	PHE
2	C	701	THR
2	C	703	ILE
2	C	708	TYR
2	C	724	ARG
2	C	727	PRO
2	C	729	LEU
2	C	743	VAL
2	C	771	GLU
2	C	780	GLU
2	C	785	VAL
2	C	791	ARG
2	C	799	ILE
2	C	813	VAL
2	C	821	GLU
2	C	824	ARG
2	C	829	GLN
2	C	834	GLN
2	C	839	LEU
2	C	841	ASN
2	C	861	LEU
2	C	863	ASP
2	C	870	ILE
2	C	881	ASN
2	C	886	LEU
2	C	890	LEU
2	C	905	ILE
2	C	907	ASP
2	C	913	GLU
2	C	923	GLU

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Mol	Chain	Res	Type
2	C	925	TYR
2	C	934	PHE
2	C	937	ASP
2	C	938	LYS
2	C	939	ARG
2	C	940	GLU
2	C	950	LEU
2	C	958	THR
2	C	960	GLU
2	C	971	LYS
2	C	976	ASP
2	C	978	ARG
2	C	989	VAL
2	C	995	MET
2	C	1002	GLU
2	C	1006	HIS
2	C	1016	ILE
2	C	1019	GLN
2	C	1020	PRO
2	C	1021	LEU
2	C	1026	GLN
2	C	1034	GLU
2	C	1035	MET
2	C	1052	MET
2	C	1054	THR
2	C	1060	ILE
2	C	1061	GLU
2	C	1076	VAL
2	C	1083	GLU
2	C	1084	SER
2	C	1085	PHE
2	C	1087	VAL
2	C	1091	GLU
2	C	1092	LEU
2	C	1097	LEU
2	C	1098	ASP
2	C	1107	ASN
2	C	1109	VAL
2	C	1111	ILE
2	C	1113	GLU
2	C	1115	LEU
3	D	3	LYS

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Mol	Chain	Res	Type
3	D	4	GLU
3	D	6	ARG
3	D	7	LYS
3	D	9	ARG
3	D	12	LEU
3	D	17	LYS
3	D	20	SER
3	D	27	GLU
3	D	29	PRO
3	D	32	ILE
3	D	33	ASN
3	D	35	ARG
3	D	40	GLU
3	D	41	ARG
3	D	42	ASP
3	D	47	GLU
3	D	55	ASP
3	D	56	TYR
3	D	58	CYS
3	D	68	PHE
3	D	76	CYS
3	D	80	VAL
3	D	82	LYS
3	D	85	VAL
3	D	102	ILE
3	D	103	TRP
3	D	107	ASP
3	D	112	ILE
3	D	115	LEU
3	D	118	LEU
3	D	133	ILE
3	D	145	VAL
3	D	147	VAL
3	D	149	LYS
3	D	150	ARG
3	D	153	LEU
3	D	154	THR
3	D	155	ASP
3	D	156	GLU
3	D	161	LEU
3	D	162	ARG
3	D	166	GLN

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Mol	Chain	Res	Type
3	D	167	GLU
3	D	170	PRO
3	D	171	LEU
3	D	172	PRO
3	D	185	VAL
3	D	199	LEU
3	D	204	LEU
3	D	205	TYR
3	D	206	ARG
3	D	208	PRO
3	D	209	ARG
3	D	389	GLU
3	D	394	LEU
3	D	395	VAL
3	D	404	GLU
3	D	410	SER
3	D	411	THR
3	D	413	ASP
3	D	421	LEU
3	D	430	ASP
3	D	432	TYR
3	D	444	VAL
3	D	445	ARG
3	D	448	GLU
3	D	450	TYR
3	D	452	ILE
3	D	456	MET
3	D	465	LEU
3	D	466	LYS
3	D	475	LYS
3	D	479	GLU
3	D	481	MET
3	D	483	HIS
3	D	488	ARG
3	D	491	LYS
3	D	497	GLU
3	D	498	VAL
3	D	502	PHE
3	D	503	LEU
3	D	513	ILE
3	D	521	PRO
3	D	529	GLN

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Mol	Chain	Res	Type
3	D	531	ASP
3	D	538	SER
3	D	540	LEU
3	D	542	ASP
3	D	554	LEU
3	D	560	GLN
3	D	565	ILE
3	D	571	LYS
3	D	590	PRO
3	D	593	ASN
3	D	594	PRO
3	D	597	ASP
3	D	598	ARG
3	D	601	ARG
3	D	613	ARG
3	D	614	PHE
3	D	615	ARG
3	D	617	ASN
3	D	636	GLN
3	D	639	LEU
3	D	641	GLN
3	D	651	GLU
3	D	656	PHE
3	D	659	LYS
3	D	662	GLU
3	D	675	ARG
3	D	676	MET
3	D	681	ARG
3	D	682	ASP
3	D	688	TRP
3	D	695	ILE
3	D	704	ARG
3	D	707	THR
3	D	709	HIS
3	D	710	ARG
3	D	716	PHE
3	D	719	VAL
3	D	724	GLN
3	D	734	GLU
3	D	739	ASP
3	D	743	ASP
3	D	749	VAL

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Mol	Chain	Res	Type
3	D	752	SER
3	D	754	PHE
3	D	762	GLN
3	D	783	ARG
3	D	794	GLN
3	D	796	ARG
3	D	797	LYS
3	D	800	LYS
3	D	805	GLU
3	D	810	GLU
3	D	824	ASN
3	D	828	LYS
3	D	832	ARG
3	D	833	GLU
3	D	839	LEU
3	D	847	ASP
3	D	850	LEU
3	D	859	ASP
3	D	862	ASP
3	D	863	VAL
3	D	867	ARG
3	D	873	LEU
3	D	879	ARG
3	D	880	ILE
3	D	886	VAL
3	D	897	TRP
3	D	898	GLU
3	D	901	GLN
3	D	904	VAL
3	D	907	GLU
3	D	910	SER
3	D	914	LEU
3	D	916	TYR
3	D	917	GLN
3	D	919	PHE
3	D	922	LEU
3	D	929	ARG
3	D	930	LEU
3	D	951	ILE
3	D	961	LYS
3	D	987	GLU
3	D	988	ARG

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Mol	Chain	Res	Type
3	D	994	GLN
3	D	1001	GLU
3	D	1021	TYR
3	D	1029	ARG
3	D	1032	PRO
3	D	1042	ARG
3	D	1049	SER
3	D	1051	GLU
3	D	1052	THR
3	D	1058	ARG
3	D	1062	ARG
3	D	1065	LEU
3	D	1068	LEU
3	D	1070	TYR
3	D	1079	LYS
3	D	1087	ARG
3	D	1097	LYS
3	D	1109	GLU
3	D	1111	ASP
3	D	1112	CYS
3	D	1116	ASN
3	D	1127	GLU
3	D	1132	LEU
3	D	1139	ASP
3	D	1144	LEU
3	D	1154	GLU
3	D	1161	GLU
3	D	1164	ARG
3	D	1173	LEU
3	D	1176	LYS
3	D	1183	ILE
3	D	1190	SER
3	D	1191	PRO
3	D	1207	TYR
3	D	1223	ILE
3	D	1228	SER
3	D	1231	GLU
3	D	1234	THR
3	D	1236	LEU
3	D	1238	MET
3	D	1242	HIS
3	D	1243	THR

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Mol	Chain	Res	Type
3	D	1251	ASP
3	D	1258	ARG
3	D	1259	VAL
3	D	1260	ILE
3	D	1262	LEU
3	D	1264	GLU
3	D	1266	ARG
3	D	1267	ARG
3	D	1269	LYS
3	D	1274	ILE
3	D	1280	VAL
3	D	1288	GLU
3	D	1295	GLU
3	D	1299	PHE
3	D	1302	GLU
3	D	1307	LYS
3	D	1310	ARG
3	D	1311	LEU
3	D	1314	LYS
3	D	1317	ASP
3	D	1318	TYR
3	D	1320	GLU
3	D	1335	LEU
3	D	1344	VAL
3	D	1346	ARG
3	D	1353	GLN
3	D	1363	LEU
3	D	1368	ILE
3	D	1372	VAL
3	D	1377	LYS
3	D	1382	THR
3	D	1388	ARG
3	D	1389	LEU
3	D	1401	GLU
3	D	1403	LEU
3	D	1410	GLU
3	D	1420	LEU
3	D	1424	VAL
3	D	1432	LYS
3	D	1435	LEU
3	D	1440	PHE
3	D	1449	GLU

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Mol	Chain	Res	Type
3	D	1460	ILE
3	D	1463	LYS
3	D	1465	ASN
3	D	1466	VAL
3	D	1480	PHE
3	D	1481	VAL
3	D	1485	GLN
3	D	1488	ASP
3	D	1496	GLU
4	E	7	ASP
4	E	10	PHE
4	E	14	ASP
4	E	28	GLN
4	E	31	LEU
4	E	32	ARG
4	E	40	LEU
4	E	42	PRO
4	E	43	GLU
4	E	45	ARG
4	E	52	GLU
4	E	59	ASN
4	E	61	GLU
4	E	66	LYS
4	E	67	GLU
4	E	81	PRO
4	E	89	MET
4	E	91	ARG
5	F	76	SER
5	F	78	SER
5	F	83	GLN
5	F	84	TYR
5	F	87	GLU
5	F	101	GLU
5	F	123	ASP
5	F	125	ASP
5	F	132	ARG
5	F	134	LYS
5	F	135	ILE
5	F	136	LEU
5	F	142	ARG
5	F	149	GLU
5	F	150	THR

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Mol	Chain	Res	Type
5	F	170	HIS
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	211	ASP
5	F	228	GLU
5	F	229	TYR
5	F	233	PHE
5	F	240	THR
5	F	245	GLN
5	F	249	ARG
5	F	280	GLN
5	F	282	LEU
5	F	284	ARG
5	F	286	PRO
5	F	288	TYR
5	F	295	MET
5	F	297	PRO
5	F	302	LYS
5	F	312	GLN
5	F	313	GLU
5	F	316	SER
5	F	328	PHE
5	F	329	TYR
5	F	336	GLU
5	F	341	PRO
5	F	343	ASP
5	F	347	GLN
5	F	348	SER
5	F	349	LEU
5	F	351	SER
5	F	364	ARG
5	F	365	GLU
5	F	370	LYS
5	F	399	GLN
5	F	403	LYS
5	F	405	LEU
5	F	408	LEU
5	F	410	TYR

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Mol	Chain	Res	Type
5	F	414	ARG
5	F	419	ARG
5	F	420	ASP
5	F	422	LEU
1	K	1	MET
1	K	5	LYS
1	K	9	PRO
1	K	12	THR
1	K	15	THR
1	K	16	GLN
1	K	18	ARG
1	K	26	GLU
1	K	43	ILE
1	K	44	LEU
1	K	45	LEU
1	K	55	SER
1	K	64	GLU
1	K	66	SER
1	K	67	THR
1	K	73	GLU
1	K	76	VAL
1	K	80	LEU
1	K	86	VAL
1	K	88	ARG
1	K	89	PHE
1	K	92	PRO
1	K	107	LYS
1	K	112	ARG
1	K	113	ASP
1	K	115	LEU
1	K	126	ASP
1	K	127	LEU
1	K	143	ARG
1	K	145	ASP
1	K	146	ARG
1	K	148	VAL
1	K	176	ARG
1	K	180	GLN
1	K	184	THR
1	K	185	ARG
1	K	186	LEU
1	K	196	THR

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Mol	Chain	Res	Type
1	K	197	LEU
1	K	198	ARG
1	K	201	THR
1	K	206	THR
1	K	211	LEU
1	K	216	GLU
1	K	219	ARG
1	K	222	LEU
1	K	227	ASN
1	K	229	GLN
1	L	5	LYS
1	L	7	LYS
1	L	16	GLN
1	L	19	GLU
1	L	25	LEU
1	L	30	ARG
1	L	32	PHE
1	L	38	ASN
1	L	41	ARG
1	L	46	SER
1	L	47	SER
1	L	51	THR
1	L	55	SER
1	L	60	ASP
1	L	65	PHE
1	L	66	SER
1	L	67	THR
1	L	73	GLU
1	L	84	GLU
1	L	89	PHE
1	L	91	ASN
1	L	92	PRO
1	L	93	SER
1	L	95	GLN
1	L	96	THR
1	L	101	LEU
1	L	104	GLU
1	L	110	LYS
1	L	113	ASP
1	L	121	GLU
1	L	124	ASN
1	L	126	ASP

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Mol	Chain	Res	Type
1	L	128	HIS
1	L	138	LEU
1	L	140	MET
1	L	145	ASP
1	L	159	LYS
1	L	161	ARG
1	L	163	ASN
1	L	167	VAL
1	L	176	ARG
1	L	182	GLU
1	L	188	GLN
1	L	190	THR
1	L	197	LEU
1	L	204	SER
1	L	205	VAL
1	L	206	THR
1	L	208	LEU
1	L	220	GLU
2	M	5	ARG
2	M	8	ARG
2	M	10	ARG
2	M	15	LEU
2	M	20	GLU
2	M	22	GLN
2	M	26	TYR
2	M	27	ARG
2	M	30	LEU
2	M	31	GLN
2	M	34	VAL
2	M	39	ARG
2	M	41	ASN
2	M	48	PHE
2	M	51	THR
2	M	52	PHE
2	M	58	ASP
2	M	64	LEU
2	M	81	ASP
2	M	89	THR
2	M	90	TYR
2	M	91	GLN
2	M	95	TYR
2	M	107	LEU

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Mol	Chain	Res	Type
2	M	108	ILE
2	M	111	ASP
2	M	113	VAL
2	M	114	PHE
2	M	115	LEU
2	M	117	HIS
2	M	118	ILE
2	M	126	SER
2	M	133	ASP
2	M	134	ARG
2	M	140	ILE
2	M	141	HIS
2	M	143	SER
2	M	144	PRO
2	M	149	THR
2	M	152	PRO
2	M	157	ARG
2	M	158	TYR
2	M	163	ILE
2	M	165	LEU
2	M	168	ARG
2	M	173	ASP
2	M	192	PRO
2	M	194	VAL
2	M	198	ARG
2	M	209	ARG
2	M	221	LEU
2	M	222	MET
2	M	229	MET
2	M	233	GLU
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	249	LYS
2	M	252	LYS
2	M	254	VAL
2	M	267	TYR
2	M	279	GLU
2	M	285	LEU

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Mol	Chain	Res	Type
2	M	288	ARG
2	M	289	THR
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	308	ARG
2	M	309	TYR
2	M	321	GLU
2	M	323	ASP
2	M	326	ASP
2	M	327	HIS
2	M	341	THR
2	M	343	GLN
2	M	359	MET
2	M	367	LEU
2	M	371	LYS
2	M	374	ASN
2	M	376	ARG
2	M	383	ARG
2	M	390	GLN
2	M	393	GLN
2	M	397	GLU
2	M	398	THR
2	M	399	ASN
2	M	400	PRO
2	M	413	LEU
2	M	420	ARG
2	M	425	PHE
2	M	426	ASP
2	M	427	VAL
2	M	439	CYS
2	M	443	THR
2	M	451	LEU
2	M	454	SER
2	M	455	LEU
2	M	460	ARG
2	M	468	ARG
2	M	469	THR
2	M	474	VAL

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Mol	Chain	Res	Type
2	M	479	VAL
2	M	481	ASP
2	M	482	GLU
2	M	503	LEU
2	M	508	ILE
2	M	533	ASP
2	M	551	GLU
2	M	554	ASP
2	M	562	SER
2	M	563	ASN
2	M	564	MET
2	M	571	LEU
2	M	581	THR
2	M	589	ARG
2	M	605	LYS
2	M	606	VAL
2	M	607	ASP
2	M	610	ARG
2	M	620	LEU
2	M	626	ARG
2	M	627	ARG
2	M	630	ARG
2	M	639	GLN
2	M	640	ARG
2	M	645	VAL
2	M	650	ARG
2	M	653	ASP
2	M	657	ASP
2	M	663	ASN
2	M	668	LEU
2	M	672	VAL
2	M	680	ASP
2	M	684	PHE
2	M	685	GLU
2	M	689	VAL
2	M	693	GLU
2	M	697	ARG
2	M	699	PHE
2	M	701	THR
2	M	706	GLU
2	M	714	ASP
2	M	715	THR

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Mol	Chain	Res	Type
2	M	717	LEU
2	M	727	PRO
2	M	729	LEU
2	M	749	VAL
2	M	768	THR
2	M	784	ASP
2	M	785	VAL
2	M	791	ARG
2	M	799	ILE
2	M	805	ARG
2	M	807	ARG
2	M	808	ARG
2	M	814	GLU
2	M	821	GLU
2	M	835	VAL
2	M	839	LEU
2	M	841	ASN
2	M	861	LEU
2	M	863	ASP
2	M	869	VAL
2	M	870	ILE
2	M	881	ASN
2	M	882	LEU
2	M	886	LEU
2	M	897	LEU
2	M	902	ILE
2	M	907	ASP
2	M	910	LYS
2	M	911	GLU
2	M	923	GLU
2	M	925	TYR
2	M	937	ASP
2	M	941	VAL
2	M	946	ARG
2	M	950	LEU
2	M	972	VAL
2	M	975	TYR
2	M	981	GLU
2	M	984	GLU
2	M	988	VAL
2	M	1002	GLU
2	M	1017	THR

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Mol	Chain	Res	Type
2	M	1035	MET
2	M	1040	LEU
2	M	1050	GLN
2	M	1058	ASP
2	M	1060	ILE
2	M	1061	GLU
2	M	1072	LYS
2	M	1079	PRO
2	M	1088	LEU
2	M	1091	GLU
2	M	1097	LEU
2	M	1098	ASP
2	M	1100	GLN
2	M	1104	GLU
2	M	1109	VAL
2	M	1111	ILE
2	M	1118	LYS
2	M	1119	ARG
3	N	6	ARG
3	N	7	LYS
3	N	12	LEU
3	N	15	PRO
3	N	17	LYS
3	N	20	SER
3	N	32	ILE
3	N	34	TYR
3	N	52	PRO
3	N	56	TYR
3	N	62	LYS
3	N	64	LYS
3	N	65	ARG
3	N	67	ARG
3	N	68	PHE
3	N	69	GLU
3	N	71	LYS
3	N	74	GLU
3	N	76	CYS
3	N	82	LYS
3	N	85	VAL
3	N	86	ARG
3	N	87	ARG
3	N	95	LEU

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Mol	Chain	Res	Type
3	N	103	TRP
3	N	117	ASP
3	N	119	SER
3	N	122	GLU
3	N	123	LEU
3	N	128	TYR
3	N	142	LEU
3	N	145	VAL
3	N	147	VAL
3	N	152	LEU
3	N	153	LEU
3	N	160	GLU
3	N	162	ARG
3	N	165	LYS
3	N	169	TYR
3	N	170	PRO
3	N	171	LEU
3	N	176	ASP
3	N	185	VAL
3	N	190	GLU
3	N	199	LEU
3	N	204	LEU
3	N	206	ARG
3	N	208	PRO
3	N	389	GLU
3	N	395	VAL
3	N	401	TYR
3	N	405	ASP
3	N	408	GLU
3	N	411	THR
3	N	419	ASP
3	N	420	VAL
3	N	421	LEU
3	N	427	VAL
3	N	429	SER
3	N	430	ASP
3	N	432	TYR
3	N	434	ARG
3	N	445	ARG
3	N	448	GLU
3	N	451	ASP
3	N	452	ILE

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Mol	Chain	Res	Type
3	N	456	MET
3	N	459	GLU
3	N	462	GLN
3	N	465	LEU
3	N	470	LEU
3	N	475	LYS
3	N	481	MET
3	N	483	HIS
3	N	486	ARG
3	N	491	LYS
3	N	493	ARG
3	N	502	PHE
3	N	505	SER
3	N	513	ILE
3	N	521	PRO
3	N	530	VAL
3	N	531	ASP
3	N	537	THR
3	N	542	ASP
3	N	543	LEU
3	N	549	ASN
3	N	565	ILE
3	N	569	ASN
3	N	571	LYS
3	N	576	GLU
3	N	581	LEU
3	N	586	ARG
3	N	590	PRO
3	N	591	VAL
3	N	593	ASN
3	N	594	PRO
3	N	597	ASP
3	N	598	ARG
3	N	601	ARG
3	N	605	ASP
3	N	607	LEU
3	N	611	GLN
3	N	614	PHE
3	N	616	GLN
3	N	617	ASN
3	N	619	LEU
3	N	623	VAL

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Mol	Chain	Res	Type
3	N	624	ASP
3	N	629	SER
3	N	631	ILE
3	N	632	VAL
3	N	637	LEU
3	N	639	LEU
3	N	640	HIS
3	N	641	GLN
3	N	648	MET
3	N	651	GLU
3	N	660	LYS
3	N	666	ILE
3	N	669	ASN
3	N	671	LYS
3	N	675	ARG
3	N	676	MET
3	N	678	GLU
3	N	681	ARG
3	N	684	LYS
3	N	686	GLU
3	N	688	TRP
3	N	695	ILE
3	N	702	LEU
3	N	717	GLN
3	N	727	GLN
3	N	734	GLU
3	N	736	PHE
3	N	741	ASP
3	N	754	PHE
3	N	765	SER
3	N	770	LEU
3	N	780	LYS
3	N	781	PRO
3	N	784	ASP
3	N	787	LEU
3	N	792	ILE
3	N	794	GLN
3	N	797	LYS
3	N	799	LYS
3	N	800	LYS
3	N	805	GLU
3	N	808	THR

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Mol	Chain	Res	Type
3	N	811	GLU
3	N	824	ASN
3	N	828	LYS
3	N	829	VAL
3	N	838	ARG
3	N	839	LEU
3	N	840	LYS
3	N	842	VAL
3	N	847	ASP
3	N	858	VAL
3	N	862	ASP
3	N	863	VAL
3	N	864	VAL
3	N	865	THR
3	N	869	MET
3	N	875	THR
3	N	876	SER
3	N	879	ARG
3	N	880	ILE
3	N	888	GLU
3	N	891	GLU
3	N	892	ASP
3	N	893	GLU
3	N	901	GLN
3	N	910	SER
3	N	917	GLN
3	N	944	THR
3	N	948	THR
3	N	951	ILE
3	N	952	ASP
3	N	959	GLU
3	N	964	LEU
3	N	972	LEU
3	N	980	MET
3	N	985	ASP
3	N	988	ARG
3	N	994	GLN
3	N	999	THR
3	N	1005	GLN
3	N	1012	GLU
3	N	1019	PRO
3	N	1036	ARG

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Mol	Chain	Res	Type
3	N	1039	CYS
3	N	1042	ARG
3	N	1045	MET
3	N	1051	GLU
3	N	1052	THR
3	N	1059	SER
3	N	1062	ARG
3	N	1068	LEU
3	N	1083	ASP
3	N	1084	THR
3	N	1093	TYR
3	N	1095	THR
3	N	1096	ARG
3	N	1109	GLU
3	N	1111	ASP
3	N	1112	CYS
3	N	1116	ASN
3	N	1124	GLN
3	N	1128	VAL
3	N	1129	THR
3	N	1133	ARG
3	N	1135	ARG
3	N	1141	GLU
3	N	1144	LEU
3	N	1159	ARG
3	N	1162	GLU
3	N	1166	LEU
3	N	1173	LEU
3	N	1182	GLU
3	N	1183	ILE
3	N	1189	ARG
3	N	1190	SER
3	N	1195	GLN
3	N	1196	THR
3	N	1207	TYR
3	N	1208	ASP
3	N	1210	SER
3	N	1211	MET
3	N	1231	GLU
3	N	1235	GLN
3	N	1238	MET
3	N	1243	THR

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Mol	Chain	Res	Type
3	N	1252	ILE
3	N	1254	GLN
3	N	1258	ARG
3	N	1260	ILE
3	N	1264	GLU
3	N	1267	ARG
3	N	1274	ILE
3	N	1275	SER
3	N	1278	ASP
3	N	1280	VAL
3	N	1285	GLU
3	N	1286	THR
3	N	1295	GLU
3	N	1299	PHE
3	N	1300	SER
3	N	1301	LYS
3	N	1312	LEU
3	N	1314	LYS
3	N	1315	ASP
3	N	1337	GLU
3	N	1344	VAL
3	N	1353	GLN
3	N	1355	VAL
3	N	1359	GLN
3	N	1368	ILE
3	N	1380	GLU
3	N	1382	THR
3	N	1383	ASP
3	N	1387	SER
3	N	1388	ARG
3	N	1396	GLU
3	N	1401	GLU
3	N	1403	LEU
3	N	1404	ASN
3	N	1406	ARG
3	N	1407	LEU
3	N	1419	PRO
3	N	1424	VAL
3	N	1432	LYS
3	N	1433	SER
3	N	1439	SER
3	N	1440	PHE

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Mol	Chain	Res	Type
3	N	1442	ASN
3	N	1444	THR
3	N	1463	LYS
3	N	1464	GLU
3	N	1465	ASN
3	N	1466	VAL
3	N	1470	ARG
3	N	1478	SER
3	N	1481	VAL
3	N	1483	PHE
3	N	1485	GLN
3	N	1487	VAL
3	N	1488	ASP
3	N	1496	GLU
3	N	1501	GLU
4	O	12	MET
4	O	13	VAL
4	O	21	VAL
4	O	28	GLN
4	O	29	GLN
4	O	32	ARG
4	O	35	PHE
4	O	36	LYS
4	O	40	LEU
4	O	42	PRO
4	O	45	ARG
4	O	52	GLU
4	O	54	LEU
4	O	57	ASP
4	O	61	GLU
4	O	66	LYS
4	O	70	THR
4	O	72	ARG
4	O	77	GLU
4	O	84	ARG
4	O	85	LEU
4	O	86	GLN
5	P	75	ILE
5	P	77	THR
5	P	83	GLN
5	P	84	TYR
5	P	85	LEU

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Mol	Chain	Res	Type
5	P	94	LEU
5	P	119	ILE
5	P	125	ASP
5	P	135	ILE
5	P	136	LEU
5	P	142	ARG
5	P	145	PRO
5	P	148	LYS
5	P	150	THR
5	P	165	SER
5	P	174	LEU
5	P	187	LEU
5	P	209	PHE
5	P	221	ILE
5	P	225	GLU
5	P	245	GLN
5	P	259	ARG
5	P	269	ASN
5	P	277	GLN
5	P	285	GLU
5	P	295	MET
5	P	300	ASP
5	P	302	LYS
5	P	306	GLU
5	P	307	THR
5	P	309	LYS
5	P	318	GLU
5	P	328	PHE
5	P	331	ASP
5	P	335	ASP
5	P	336	GLU
5	P	337	HIS
5	P	347	GLN
5	P	348	SER
5	P	350	LEU
5	P	358	LEU
5	P	360	LYS
5	P	361	LEU
5	P	367	MET
5	P	370	LYS
5	P	375	LEU
5	P	396	ARG

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Mol	Chain	Res	Type
5	P	399	GLN
5	P	401	GLU
5	P	403	LYS
5	P	407	LYS
5	P	408	LEU
5	P	419	ARG

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (167) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	16	GLN
1	A	81	ASN
1	A	124	ASN
1	A	156	HIS
1	A	163	ASN
1	A	180	GLN
1	A	188	GLN
1	A	212	ASN
1	A	213	GLN
1	A	227	ASN
1	A	229	GLN
1	B	63	HIS
1	B	128	HIS
1	B	163	ASN
2	C	22	GLN
2	C	31	GLN
2	C	41	ASN
2	C	117	HIS
2	C	130	ASN
2	C	204	GLN
2	C	219	GLN
2	C	343	GLN
2	C	374	ASN
2	C	393	GLN
2	C	506	ASN
2	C	538	GLN
2	C	563	ASN
2	C	575	GLN
2	C	609	ASN
2	C	633	GLN
2	C	639	GLN
2	C	663	ASN

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Mol	Chain	Res	Type
2	C	670	GLN
2	C	834	GLN
2	C	841	ASN
2	C	845	ASN
2	C	881	ASN
2	C	884	GLN
2	C	889	HIS
2	C	899	GLN
2	C	962	GLN
2	C	991	GLN
2	C	1018	GLN
2	C	1019	GLN
2	C	1107	ASN
3	D	33	ASN
3	D	151	GLN
3	D	166	GLN
3	D	549	ASN
3	D	560	GLN
3	D	593	ASN
3	D	616	GLN
3	D	617	ASN
3	D	703	ASN
3	D	724	GLN
3	D	756	GLN
3	D	768	ASN
3	D	824	ASN
3	D	855	HIS
3	D	861	GLN
3	D	917	GLN
3	D	976	GLN
3	D	1031	ASN
3	D	1033	GLN
3	D	1075	HIS
3	D	1116	ASN
3	D	1124	GLN
3	D	1172	HIS
3	D	1184	GLN
3	D	1242	HIS
3	D	1323	GLN
3	D	1334	GLN
3	D	1353	GLN
3	D	1359	GLN

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Mol	Chain	Res	Type
3	D	1374	GLN
3	D	1441	GLN
3	D	1465	ASN
4	E	28	GLN
4	E	33	HIS
4	E	37	ASN
4	E	86	GLN
5	F	90	GLN
5	F	161	GLN
5	F	217	ASN
5	F	218	GLN
1	K	38	ASN
1	K	63	HIS
1	K	81	ASN
1	K	139	ASN
1	K	156	HIS
1	K	163	ASN
1	K	213	GLN
1	K	227	ASN
1	K	229	GLN
1	L	16	GLN
1	L	81	ASN
1	L	91	ASN
1	L	180	GLN
1	L	188	GLN
2	M	22	GLN
2	M	41	ASN
2	M	102	HIS
2	M	117	HIS
2	M	139	GLN
2	M	179	ASN
2	M	327	HIS
2	M	343	GLN
2	M	374	ASN
2	M	393	GLN
2	M	434	HIS
2	M	538	GLN
2	M	543	ASN
2	M	545	ASN
2	M	552	HIS
2	M	563	ASN
2	M	565	GLN

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Mol	Chain	Res	Type
2	M	609	ASN
2	M	633	GLN
2	M	663	ASN
2	M	671	ASN
2	M	834	GLN
2	M	841	ASN
2	M	881	ASN
2	M	899	GLN
2	M	962	GLN
2	M	969	GLN
2	M	1006	HIS
2	M	1018	GLN
2	M	1019	GLN
2	M	1030	GLN
3	N	166	GLN
3	N	442	ASN
3	N	507	ASN
3	N	549	ASN
3	N	552	ASN
3	N	560	GLN
3	N	616	GLN
3	N	617	ASN
3	N	717	GLN
3	N	724	GLN
3	N	727	GLN
3	N	737	ASN
3	N	756	GLN
3	N	901	GLN
3	N	917	GLN
3	N	976	GLN
3	N	1031	ASN
3	N	1033	GLN
3	N	1103	HIS
3	N	1116	ASN
3	N	1334	GLN
3	N	1353	GLN
3	N	1359	GLN
3	N	1374	GLN
3	N	1465	ASN
4	O	28	GLN
4	O	29	GLN
4	O	33	HIS

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Mol	Chain	Res	Type
4	O	59	ASN
4	O	86	GLN
5	P	90	GLN
5	P	191	ASN
5	P	248	ASN
5	P	254	GLN
5	P	269	ASN
5	P	279	GLN
5	P	399	GLN

### 5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

## 5.5 Carbohydrates [i](#)

There are no carbohydrates in this entry.

## 5.6 Ligand geometry [i](#)

Of 10 ligands modelled in this entry, 8 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	$\# Z  > 2$
8	TGT	D	9001	6	16,27,27	4.14	12 (75%)	19,44,44	2.60	7 (36%)
8	TGT	N	9002	6	16,27,27	4.51	11 (68%)	19,44,44	2.71	5 (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
8	TGT	D	9001	6	-	0/8/57/57	0/0/2/2
8	TGT	N	9002	6	-	0/8/57/57	0/0/2/2

All (23) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
8	D	9001	TGT	C6-C7	2.25	1.58	1.53
8	N	9002	TGT	C6-C7	2.37	1.58	1.53
8	N	9002	TGT	C2-N2	2.53	1.51	1.47
8	D	9001	TGT	O10-C3	2.88	1.49	1.44
8	D	9001	TGT	P1-O7	3.67	1.67	1.54
8	D	9001	TGT	C2-N2	3.84	1.53	1.47
8	N	9002	TGT	O1-C4	3.96	1.51	1.43
8	D	9001	TGT	O1-C4	3.99	1.51	1.43
8	D	9001	TGT	C3-C2	4.03	1.62	1.53
8	D	9001	TGT	O3-C8	4.20	1.32	1.23
8	D	9001	TGT	C8-N1	4.27	1.41	1.32
8	N	9002	TGT	P1-O7	4.41	1.70	1.54
8	N	9002	TGT	C3-C4	4.52	1.62	1.52
8	N	9002	TGT	C3-C2	4.71	1.64	1.53
8	D	9001	TGT	C1-C2	4.74	1.61	1.53
8	D	9001	TGT	P1-O8	4.99	1.67	1.51
8	N	9002	TGT	P1-O8	5.08	1.67	1.51
8	N	9002	TGT	C8-N1	5.11	1.43	1.32
8	D	9001	TGT	C3-C4	5.55	1.64	1.52
8	N	9002	TGT	C1-C2	5.81	1.63	1.53
8	N	9002	TGT	O3-C8	8.24	1.41	1.23
8	N	9002	TGT	O11-C10	8.54	1.53	1.20
8	D	9001	TGT	O11-C10	9.26	1.55	1.20

All (12) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
8	N	9002	TGT	O10-C10-O11	-2.54	117.85	122.92
8	D	9001	TGT	O3-C8-N1	-2.32	118.16	123.21
8	D	9001	TGT	O11-C10-C11	-2.28	116.39	124.85
8	D	9001	TGT	O6-C1-C2	2.05	110.68	107.81
8	D	9001	TGT	C6-C7-C1	2.17	118.65	112.79
8	N	9002	TGT	C6-C7-C1	2.40	119.28	112.79

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
8	N	9002	TGT	O6-C1-C2	2.56	111.39	107.81
8	D	9001	TGT	O10-C3-C4	2.84	114.39	108.21
8	D	9001	TGT	C3-O10-C10	5.92	126.88	117.70
8	N	9002	TGT	O10-C10-C11	6.71	123.76	111.10
8	D	9001	TGT	O10-C10-C11	6.93	124.18	111.10
8	N	9002	TGT	C3-O10-C10	6.95	128.47	117.70

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

2 monomers are involved in 4 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
8	D	9001	TGT	3	0
8	N	9002	TGT	1	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, 95<sup>th</sup> 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(Å²)	Q<0.9
1	A	229/315 (72%)	2.14	73 (31%)	1	1	18, 47, 72, 88	0
1	B	229/315 (72%)	2.89	82 (35%)	0	0	34, 66, 82, 88	0
1	K	229/315 (72%)	1.50	71 (31%)	1	1	21, 43, 70, 92	0
1	L	229/315 (72%)	2.20	72 (31%)	1	1	34, 62, 82, 95	0
2	C	1119/1119 (100%)	3.18	424 (37%)	0	0	15, 58, 81, 94	0
2	M	1119/1119 (100%)	3.29	434 (38%)	0	0	15, 55, 81, 97	0
3	D	1392/1524 (91%)	2.06	399 (28%)	1	1	15, 49, 82, 97	0
3	N	1392/1524 (91%)	2.10	402 (28%)	1	1	16, 48, 83, 105	0
4	E	95/99 (95%)	1.45	24 (25%)	1	1	30, 59, 82, 103	0
4	O	95/99 (95%)	1.80	25 (26%)	1	1	22, 59, 77, 87	0
5	F	345/423 (81%)	4.05	160 (46%)	0	0	38, 63, 83, 97	0
5	P	345/423 (81%)	4.08	152 (44%)	0	0	41, 64, 85, 92	0
All	All	6818/7590 (89%)	2.66	2318 (33%)	0	0	15, 54, 82, 105	0

All (2318) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
3	D	854	ALA	69.5
3	N	1246	VAL	62.9
3	N	532	GLY	61.9
3	N	533	GLY	59.1
3	N	1248	GLY	59.0
3	D	1247	ALA	53.0
3	D	853	VAL	52.9
3	D	852	ALA	52.3
3	N	1247	ALA	52.2
3	N	531	ASP	50.3
3	N	530	VAL	48.5

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Mol	Chain	Res	Type	RSRZ
2	C	171	TRP	48.3
2	C	1001	VAL	48.3
3	D	1248	GLY	46.0
3	D	855	HIS	45.4
3	D	856	GLY	44.9
2	C	172	ILE	43.9
5	F	359	SER	41.8
3	N	1249	ALA	41.5
3	D	851	LEU	41.1
3	N	534	ARG	40.9
2	C	376	ARG	40.7
3	N	407	VAL	40.7
2	C	763	GLY	40.3
1	B	150	TYR	39.6
2	C	380	ALA	39.3
2	M	171	TRP	38.8
1	A	1	MET	38.7
3	D	1246	VAL	38.7
5	P	183	ALA	38.6
2	M	180	GLY	38.2
2	C	1023	GLY	37.8
2	M	179	ASN	37.6
2	C	169	GLY	36.9
2	M	1001	VAL	36.9
2	M	377	PRO	36.8
3	D	857	ILE	36.7
5	F	182	ALA	36.5
5	P	182	ALA	35.9
2	M	186	VAL	35.8
2	M	375	SER	35.5
5	P	186	HIS	35.3
5	P	415	THR	35.3
2	M	172	ILE	35.2
2	C	153	ALA	35.2
2	M	169	GLY	35.1
2	C	377	PRO	34.7
2	C	764	GLU	34.4
2	C	375	SER	34.3
2	M	17	PRO	34.3
2	C	1024	LYS	34.0
5	F	91	VAL	33.3
2	M	1	MET	33.1

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Mol	Chain	Res	Type	RSRZ
2	C	765	SER	32.5
3	D	850	LEU	31.7
5	F	386	VAL	31.5
3	N	854	ALA	31.3
2	C	170	PRO	31.1
2	M	18	LEU	30.7
5	P	359	SER	30.5
1	B	151	VAL	30.3
2	M	376	ARG	30.1
1	A	6	LEU	29.9
2	C	152	PRO	29.8
2	M	1000	MET	29.3
3	D	849	ALA	29.2
3	D	1249	ALA	28.6
2	M	1024	LYS	28.4
2	C	1000	MET	28.0
2	C	164	PRO	27.6
2	C	180	GLY	27.4
1	B	157	GLY	27.1
5	P	180	GLY	27.1
1	B	155	LYS	26.8
2	M	347	GLY	26.7
5	F	183	ALA	26.6
3	D	530	VAL	26.4
5	P	102	LEU	26.4
2	M	522	VAL	26.3
5	F	102	LEU	26.2
5	F	186	HIS	26.1
2	M	181	VAL	26.0
5	F	138	SER	25.4
3	N	1245	GLY	25.4
2	C	517	ARG	25.3
2	C	19	THR	25.1
2	C	18	LEU	25.1
2	M	164	PRO	24.8
1	B	152	PRO	24.7
3	N	408	GLU	24.5
2	M	170	PRO	24.3
2	M	19	THR	24.2
3	N	944	THR	24.2
2	M	114	PHE	24.1
5	F	90	GLN	23.8

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Mol	Chain	Res	Type	RSRZ
2	C	379	GLU	23.8
2	M	348	LEU	23.7
3	D	439	LEU	23.5
2	M	764	GLU	23.4
5	P	91	VAL	23.3
2	M	1023	GLY	23.1
2	M	351	LEU	23.0
3	D	531	ASP	23.0
2	C	116	GLY	23.0
5	F	139	ALA	22.8
2	C	378	LEU	22.7
3	N	870	GLY	22.7
2	M	152	PRO	22.6
5	P	360	LYS	22.5
3	N	853	VAL	22.5
3	D	858	VAL	22.5
5	F	283	GLY	22.4
2	C	1025	ALA	22.1
5	P	89	GLY	22.1
3	D	696	HIS	22.0
2	M	153	ALA	21.8
1	L	96	THR	21.5
2	M	590	ASP	21.5
2	C	186	VAL	21.2
3	D	1316	GLY	21.2
1	B	118	ALA	20.9
2	C	518	LYS	20.9
2	C	796	GLU	20.9
5	F	105	LYS	20.7
5	P	135	ILE	20.6
3	N	406	ASP	20.6
2	M	378	LEU	20.5
5	F	137	GLY	20.4
5	P	342	VAL	20.4
4	O	2	ALA	20.4
1	A	2	LEU	20.3
3	D	505	SER	20.3
2	M	374	ASN	20.2
2	C	17	PRO	20.1
2	M	817	PRO	20.1
3	N	1340	GLY	19.9
2	C	179	ASN	19.9

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Mol	Chain	Res	Type	RSRZ
2	C	15	LEU	19.8
3	D	697	GLY	19.8
2	C	493	ARG	19.7
2	M	223	ASP	19.7
3	N	529	GLN	19.7
3	D	532	GLY	19.6
2	C	173	ASP	19.5
5	F	180	GLY	19.5
3	N	852	ALA	19.5
3	D	1245	GLY	19.4
2	M	520	GLU	19.4
2	M	191	PHE	19.4
5	F	135	ILE	19.4
2	C	114	PHE	19.3
2	M	115	LEU	19.2
5	F	393	THR	19.2
5	P	419	ARG	19.0
1	B	158	ILE	18.9
2	C	381	ALA	18.8
2	C	522	VAL	18.7
1	L	94	LEU	18.7
2	M	16	PRO	18.7
2	C	795	GLY	18.6
2	M	380	ALA	18.6
5	F	179	GLU	18.6
2	M	187	ASN	18.6
2	M	173	ASP	18.4
3	D	1129	THR	18.4
2	C	181	VAL	18.3
5	P	339	PRO	18.3
1	A	5	LYS	18.3
5	F	415	THR	18.3
2	C	1	MET	18.1
4	E	3	GLU	18.1
3	N	851	LEU	18.1
2	M	349	ALA	17.9
2	M	350	ARG	17.9
5	P	90	GLN	17.9
1	B	159	LYS	17.8
5	F	391	GLY	17.8
2	C	984	GLU	17.7
1	A	155	LYS	17.7

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Mol	Chain	Res	Type	RSRZ
2	C	20	GLU	17.7
5	F	141	VAL	17.6
1	L	118	ALA	17.6
2	M	763	GLY	17.5
2	M	166	PRO	17.5
5	F	89	GLY	17.4
5	P	92	PRO	17.4
1	B	156	HIS	17.4
2	M	984	GLU	17.3
3	N	945	SER	17.3
2	M	627	ARG	17.2
2	M	1077	PRO	17.2
3	D	137	PRO	17.2
2	M	23	VAL	17.2
3	D	1314	LYS	17.1
3	N	588	GLY	17.1
5	P	105	LYS	17.1
3	D	859	ASP	17.1
5	P	411	HIS	17.1
2	M	182	VAL	17.1
2	M	586	ARG	17.0
2	C	21	ILE	17.0
5	F	339	PRO	17.0
2	C	525	SER	17.0
2	C	524	VAL	16.9
3	D	1360	GLY	16.9
2	C	495	THR	16.8
3	D	944	THR	16.8
3	N	845	ASN	16.8
2	C	586	ARG	16.8
2	M	512	ARG	16.6
2	M	765	SER	16.5
2	C	16	PRO	16.5
5	P	119	ILE	16.5
2	C	627	ARG	16.4
2	M	379	GLU	16.4
2	M	523	ILE	16.4
5	P	386	VAL	16.2
2	M	354	GLY	16.2
5	P	394	ARG	16.2
2	M	231	PRO	16.0
3	N	535	PHE	16.0

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Mol	Chain	Res	Type	RSRZ
3	D	441	ARG	16.0
2	M	555	ALA	15.9
2	C	182	VAL	15.9
3	N	696	HIS	15.9
3	N	1360	GLY	15.8
5	F	360	LYS	15.8
5	F	136	LEU	15.7
5	P	416	ARG	15.7
2	C	983	ILE	15.7
3	D	533	GLY	15.6
2	M	15	LEU	15.6
3	N	640	HIS	15.6
3	D	534	ARG	15.5
4	E	2	ALA	15.5
5	F	92	PRO	15.5
3	D	640	HIS	15.4
2	C	946	ARG	15.4
5	P	185	GLN	15.4
2	C	528	GLU	15.4
3	D	1342	GLU	15.4
5	P	421	PHE	15.3
2	C	553	ASP	15.3
1	K	1	MET	15.3
2	M	517	ARG	15.2
2	M	230	ARG	15.2
2	M	265	ARG	15.2
2	M	353	ARG	15.1
2	C	14	PRO	15.1
2	C	717	LEU	15.1
3	N	856	GLY	15.1
3	D	1340	GLY	15.1
2	C	793	PRO	15.0
2	M	983	ILE	14.9
2	M	219	GLN	14.9
5	F	185	GLN	14.9
2	M	47	ALA	14.9
4	O	3	GLU	14.9
2	M	227	PHE	14.9
3	N	1341	PRO	14.8
5	P	345	ALA	14.8
5	P	94	LEU	14.8
2	M	344	PHE	14.8

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Mol	Chain	Res	Type	RSRZ
2	M	345	ARG	14.8
3	N	505	SER	14.8
2	M	163	ILE	14.7
1	A	118	ALA	14.7
2	C	519	GLY	14.7
3	D	1341	PRO	14.7
3	N	867	ARG	14.7
3	N	855	HIS	14.7
5	F	93	LEU	14.7
5	F	140	ARG	14.6
2	C	23	VAL	14.6
3	D	401	TYR	14.5
3	N	1343	ALA	14.5
5	P	340	SER	14.5
2	M	165	LEU	14.4
5	P	136	LEU	14.4
2	C	220	GLY	14.4
2	M	20	GLU	14.3
2	C	762	LYS	14.3
2	C	223	ASP	14.3
2	M	185	LYS	14.3
2	M	1025	ALA	14.3
1	L	188	GLN	14.3
2	M	320	HIS	14.3
3	N	801	GLY	14.3
2	C	781	LYS	14.3
1	B	190	THR	14.1
3	D	641	GLN	14.1
2	M	266	ARG	14.1
5	P	343	ASP	14.1
1	A	4	SER	14.1
1	L	189	ARG	14.1
5	F	423	ASP	14.0
5	F	285	GLU	14.0
2	C	219	GLN	14.0
3	D	588	GLY	13.9
2	C	1004	LYS	13.9
5	P	344	ALA	13.9
5	F	387	GLY	13.9
1	A	157	GLY	13.9
2	C	523	ILE	13.8
5	P	245	GLN	13.8

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Mol	Chain	Res	Type	RSRZ
3	D	1419	PRO	13.8
2	C	590	ASP	13.7
1	B	126	ASP	13.7
3	N	871	LYS	13.7
1	B	219	ARG	13.7
5	P	179	GLU	13.7
3	N	638	LYS	13.6
1	K	155	LYS	13.6
2	M	14	PRO	13.5
2	M	46	ALA	13.5
3	D	717	GLN	13.4
3	N	1250	ALA	13.4
1	B	162	ILE	13.4
2	M	21	ILE	13.4
2	M	782	ALA	13.4
2	C	163	ILE	13.3
2	M	1002	GLU	13.3
3	D	529	GLN	13.3
3	D	67	ARG	13.3
2	C	162	ILE	13.2
2	C	556	ASN	13.2
1	B	188	GLN	13.2
2	M	1065	ALA	13.1
3	D	407	VAL	13.1
5	F	119	ILE	13.1
2	C	794	PRO	13.1
2	C	185	LYS	13.1
5	P	95	THR	13.0
2	M	589	ARG	13.0
3	N	379	ALA	13.0
3	N	1227	GLN	13.0
1	B	149	GLY	13.0
1	K	6	LEU	12.9
5	P	93	LEU	12.9
5	P	341	PRO	12.9
2	M	226	VAL	12.8
1	A	216	GLU	12.8
3	D	845	ASN	12.8
3	D	188	GLY	12.8
3	N	844	ALA	12.8
3	N	405	ASP	12.7
4	E	59	ASN	12.7

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Mol	Chain	Res	Type	RSRZ
2	M	184	MET	12.7
4	O	4	PRO	12.6
3	N	122	GLU	12.6
5	F	390	PHE	12.6
2	C	982	PRO	12.5
3	D	808	THR	12.5
2	C	554	ASP	12.5
2	C	555	ALA	12.5
5	P	138	SER	12.5
2	M	716	LYS	12.5
2	M	49	ARG	12.5
3	D	379	ALA	12.4
2	C	155	PRO	12.4
2	M	559	LEU	12.4
3	D	1317	ASP	12.4
1	L	95	GLN	12.4
2	M	510	ALA	12.4
2	C	251	ASP	12.3
5	F	419	ARG	12.3
4	O	47	LYS	12.3
1	A	154	GLU	12.2
5	F	355	GLU	12.2
2	M	1066	ALA	12.2
3	N	409	VAL	12.2
2	M	524	VAL	12.2
3	N	585	GLY	12.2
3	D	416	ALA	12.1
3	D	548	ILE	12.1
3	N	1223	ILE	12.1
3	N	242	LEU	12.1
2	C	350	ARG	12.1
2	M	558	ALA	12.0
2	C	115	LEU	12.0
3	D	400	VAL	11.9
3	N	858	VAL	11.9
3	D	403	PHE	11.9
3	D	504	ASP	11.9
2	M	795	GLY	11.9
2	C	782	ALA	11.9
2	C	1065	ALA	11.9
3	D	440	VAL	11.7
2	C	716	LYS	11.7

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Mol	Chain	Res	Type	RSRZ
2	C	559	LEU	11.7
5	F	121	GLY	11.7
3	N	943	THR	11.7
3	N	1285	GLU	11.7
3	N	857	ILE	11.7
2	C	817	PRO	11.6
2	C	1002	GLU	11.6
5	P	413	SER	11.6
2	M	715	THR	11.6
2	M	982	PRO	11.6
5	F	421	PHE	11.6
2	C	1077	PRO	11.6
3	N	1358	ALA	11.6
2	M	729	LEU	11.6
4	O	49	GLN	11.5
4	O	44	GLU	11.5
2	M	381	ALA	11.5
3	D	847	ASP	11.5
2	C	520	GLU	11.5
1	L	93	SER	11.5
1	L	3	ASP	11.5
2	C	183	SER	11.5
5	P	98	GLU	11.4
3	D	519	VAL	11.4
5	P	414	ARG	11.4
1	A	219	ARG	11.4
2	M	1038	TRP	11.4
3	N	717	GLN	11.3
2	C	232	GLU	11.3
2	M	267	TYR	11.3
3	N	504	ASP	11.3
2	M	557	ARG	11.3
1	L	150	TYR	11.3
2	C	383	ARG	11.3
2	M	876	VAL	11.2
2	M	781	LYS	11.2
2	M	1064	ASN	11.2
2	M	556	ASN	11.2
5	F	336	GLU	11.2
2	M	116	GLY	11.1
2	C	264	PRO	11.1
2	C	123	GLU	11.1

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Mol	Chain	Res	Type	RSRZ
3	N	189	GLN	11.1
2	C	347	GLY	11.1
4	E	49	GLN	11.1
3	D	424	GLY	11.1
1	B	189	ARG	11.0
2	M	192	PRO	11.0
3	N	1342	GLU	11.0
3	D	438	ASP	11.0
5	F	394	ARG	11.0
3	N	519	VAL	11.0
3	N	850	LEU	10.9
2	M	1062	GLY	10.9
3	N	472	ALA	10.9
2	C	224	GLU	10.9
5	F	343	ASP	10.9
1	L	185	ARG	10.9
2	M	518	LYS	10.9
5	P	145	PRO	10.8
5	F	338	LEU	10.8
3	D	364	GLY	10.8
3	N	475	LYS	10.8
2	C	234	ALA	10.8
2	C	981	GLU	10.8
2	C	558	ALA	10.7
2	M	319	GLY	10.7
2	M	50	GLU	10.7
2	M	183	SER	10.6
3	D	844	ALA	10.6
2	M	233	GLU	10.6
3	N	697	GLY	10.6
2	M	234	ALA	10.5
5	P	103	ALA	10.5
2	M	232	GLU	10.5
3	D	1092	GLY	10.5
1	B	116	PRO	10.5
2	M	178	PRO	10.5
1	A	116	PRO	10.5
1	L	190	THR	10.5
3	N	1336	LEU	10.5
2	M	444	PRO	10.4
3	D	848	GLU	10.4
2	M	1004	LYS	10.4

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Mol	Chain	Res	Type	RSRZ
5	P	322	GLY	10.4
3	D	1089	ALA	10.3
3	N	1287	GLU	10.3
2	C	513	VAL	10.3
5	P	141	VAL	10.3
3	D	1250	ALA	10.3
3	N	773	ALA	10.3
2	M	717	LEU	10.3
1	A	153	ALA	10.3
5	P	355	GLU	10.3
3	D	1049	SER	10.3
5	F	120	THR	10.3
2	C	192	PRO	10.2
3	N	869	MET	10.2
3	D	945	SER	10.2
2	C	492	ASP	10.2
1	A	3	ASP	10.2
3	D	1158	VAL	10.2
5	P	101	GLU	10.2
1	B	4	SER	10.2
3	D	860	LEU	10.2
2	M	48	PHE	10.2
5	F	94	LEU	10.1
5	P	312	GLN	10.1
2	C	46	ALA	10.1
5	F	74	LYS	10.0
1	A	152	PRO	10.0
3	N	1224	VAL	10.0
3	N	1225	ALA	9.9
1	B	153	ALA	9.9
2	C	191	PHE	9.9
2	C	222	MET	9.8
5	P	75	ILE	9.8
2	M	554	ASP	9.8
3	N	859	ASP	9.8
3	D	442	ASN	9.8
3	N	188	GLY	9.8
5	P	74	LYS	9.8
3	N	1361	VAL	9.7
1	A	20	TYR	9.7
3	D	1343	ALA	9.7
3	N	1337	GLU	9.6

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Mol	Chain	Res	Type	RSRZ
3	N	1419	PRO	9.6
5	P	120	THR	9.6
3	N	947	ILE	9.6
3	N	96	ALA	9.6
1	L	184	THR	9.6
3	N	1099	VAL	9.6
2	M	51	THR	9.6
5	P	137	GLY	9.5
2	C	942	GLU	9.5
3	D	719	VAL	9.5
5	P	393	THR	9.5
5	F	245	GLN	9.5
2	C	235	LEU	9.5
5	P	88	ILE	9.5
2	C	494	TYR	9.5
5	F	86	HIS	9.5
2	C	166	PRO	9.4
2	C	165	LEU	9.4
2	M	194	VAL	9.4
3	N	846	PRO	9.4
2	C	233	GLU	9.4
3	D	638	LYS	9.4
2	M	946	ARG	9.3
3	N	586	ARG	9.3
2	M	796	GLU	9.3
3	N	1286	THR	9.3
3	D	547	LEU	9.3
1	B	191	ASP	9.3
2	M	352	ALA	9.3
5	F	346	THR	9.3
2	C	560	MET	9.3
3	N	719	VAL	9.3
1	L	92	PRO	9.3
2	M	1042	ALA	9.3
1	B	125	PRO	9.2
2	C	167	LYS	9.2
5	P	170	HIS	9.2
2	C	881	ASN	9.2
3	D	1031	ASN	9.2
5	P	338	LEU	9.2
5	F	241	TRP	9.2
3	D	223	LEU	9.2

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Mol	Chain	Res	Type	RSRZ
2	M	816	LYS	9.2
2	M	162	ILE	9.2
2	M	228	ALA	9.2
3	N	1344	VAL	9.1
2	M	1069	ALA	9.1
2	C	766	GLU	9.1
3	N	849	ALA	9.1
3	N	948	THR	9.1
2	C	1075	ASP	9.0
3	D	753	SER	9.0
2	C	510	ALA	9.0
5	F	181	GLU	9.0
3	N	93	ILE	9.0
2	M	1067	TYR	9.0
1	K	80	LEU	9.0
3	N	163	TYR	9.0
3	N	95	LEU	9.0
3	D	846	PRO	9.0
1	L	2	LEU	8.9
5	P	189	GLU	8.9
2	M	346	VAL	8.9
2	M	697	ARG	8.9
2	C	1113	GLU	8.9
1	A	156	HIS	8.9
3	D	843	PHE	8.9
5	F	337	HIS	8.9
3	N	1070	TYR	8.9
4	O	43	GLU	8.9
3	D	773	ALA	8.8
2	M	880	MET	8.8
5	F	145	PRO	8.8
2	C	187	ASN	8.8
5	P	139	ALA	8.8
2	M	1027	PHE	8.8
3	N	1362	LYS	8.8
5	P	241	TRP	8.8
2	C	729	LEU	8.7
3	N	552	ASN	8.7
3	N	1049	SER	8.7
3	N	946	GLY	8.7
2	M	818	GLY	8.7
2	C	124	ASP	8.7

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Mol	Chain	Res	Type	RSRZ
2	C	1038	TRP	8.7
5	F	344	ALA	8.7
2	M	553	ASP	8.7
5	P	165	SER	8.7
1	L	5	LYS	8.7
3	D	810	GLU	8.7
5	P	348	SER	8.7
2	M	447	ALA	8.6
2	M	931	GLY	8.6
2	C	624	PRO	8.6
5	F	416	ARG	8.6
5	F	144	ILE	8.6
2	M	1026	GLN	8.6
3	N	94	GLU	8.6
3	N	380	GLU	8.6
2	C	263	ASP	8.6
5	F	133	ALA	8.5
5	P	358	LEU	8.5
2	C	880	MET	8.5
2	M	778	PHE	8.5
3	D	1336	LEU	8.5
3	D	551	ASN	8.5
1	B	117	VAL	8.5
3	N	1129	THR	8.5
1	L	119	ASP	8.5
1	A	16	GLN	8.5
2	M	43	GLY	8.5
2	M	878	SER	8.5
1	L	4	SER	8.4
2	M	981	GLU	8.4
2	C	422	ARG	8.4
4	E	44	GLU	8.4
3	D	870	GLY	8.4
3	N	137	PRO	8.4
5	F	176	ILE	8.4
5	F	284	ARG	8.4
5	P	323	ASP	8.4
3	N	1418	LYS	8.3
3	D	380	GLU	8.3
2	C	195	LEU	8.3
5	P	309	LYS	8.3
2	C	194	VAL	8.3

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Mol	Chain	Res	Type	RSRZ
3	D	1337	GLU	8.3
3	N	1316	GLY	8.3
3	N	1400	VAL	8.3
5	F	98	GLU	8.2
3	D	1051	GLU	8.2
2	M	44	ILE	8.2
5	F	342	VAL	8.2
1	K	152	PRO	8.2
1	L	90	LEU	8.2
1	K	118	ALA	8.2
2	M	1076	VAL	8.1
2	M	794	PRO	8.1
1	A	151	VAL	8.1
2	M	713	ARG	8.1
5	P	336	GLU	8.1
3	D	1420	LEU	8.1
1	L	117	VAL	8.1
2	M	188	LYS	8.1
3	N	121	THR	8.1
3	D	1315	ASP	8.1
3	D	1088	THR	8.1
3	N	800	LYS	8.1
3	D	405	ASP	8.0
2	C	589	ARG	8.0
1	B	184	THR	8.0
2	M	224	GLU	8.0
2	M	525	SER	8.0
2	C	125	GLY	8.0
2	C	771	GLU	7.9
3	D	589	ALA	7.9
2	C	625	LEU	7.9
4	O	42	PRO	7.9
2	C	168	ARG	7.9
2	M	195	LEU	7.9
3	D	1050	GLY	7.9
2	C	698	ASP	7.9
5	P	283	GLY	7.9
2	C	697	ARG	7.9
2	M	881	ASN	7.9
5	F	356	LYS	7.9
2	M	422	ARG	7.9
2	C	196	LEU	7.9

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Mol	Chain	Res	Type	RSRZ
2	M	519	GLY	7.9
2	C	267	TYR	7.8
1	B	119	ASP	7.8
1	K	67	THR	7.8
2	C	557	ARG	7.8
3	N	471	GLU	7.8
2	C	542	VAL	7.8
2	M	238	LEU	7.8
3	N	594	PRO	7.8
3	N	1339	LYS	7.8
2	M	446	GLY	7.8
5	P	346	THR	7.8
3	N	365	ASP	7.7
3	N	1092	GLY	7.7
2	M	521	PRO	7.7
2	C	374	ASN	7.7
2	C	1003	ASP	7.7
2	M	879	ARG	7.7
2	M	445	GLU	7.7
2	C	231	PRO	7.7
2	M	237	ARG	7.7
2	C	1027	PHE	7.7
1	L	158	ILE	7.6
1	K	216	GLU	7.6
2	C	552	HIS	7.6
1	L	191	ASP	7.6
2	C	1035	MET	7.5
3	N	1050	GLY	7.5
5	F	177	ALA	7.5
5	P	167	PRO	7.5
2	M	542	VAL	7.5
4	E	54	LEU	7.5
1	K	150	TYR	7.5
2	M	513	VAL	7.5
3	D	35	ARG	7.5
3	D	415	VAL	7.5
3	D	1358	ALA	7.5
3	N	1089	ALA	7.5
3	N	641	GLN	7.5
5	P	104	ARG	7.5
2	C	441	VAL	7.5
3	N	1047	LYS	7.4

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Mol	Chain	Res	Type	RSRZ
2	M	1080	SER	7.4
5	F	279	GLN	7.4
4	E	48	MET	7.4
2	M	1075	ASP	7.4
5	P	315	VAL	7.4
2	M	1118	LYS	7.4
2	C	885	ILE	7.4
3	D	417	PRO	7.4
3	N	563	PRO	7.4
3	N	595	GLY	7.4
3	D	93	ILE	7.4
2	M	873	PRO	7.4
2	C	767	PRO	7.3
3	D	1130	ARG	7.3
1	L	192	LEU	7.3
3	N	26	VAL	7.3
3	N	1051	GLU	7.3
3	D	594	PRO	7.3
2	C	154	ARG	7.3
3	N	1437	ALA	7.2
3	D	28	LYS	7.2
3	D	1400	VAL	7.2
2	C	117	HIS	7.2
3	N	1440	PHE	7.2
1	L	77	GLU	7.2
5	P	325	LYS	7.2
3	D	764	LEU	7.2
5	F	340	SER	7.2
3	N	1158	VAL	7.2
1	K	154	GLU	7.2
2	C	797	GLY	7.2
2	C	1078	GLU	7.2
5	P	187	LEU	7.2
3	D	760	ARG	7.2
3	N	528	VAL	7.2
3	D	756	GLN	7.2
3	N	872	ARG	7.1
3	D	695	ILE	7.1
1	L	151	VAL	7.1
2	M	793	PRO	7.1
1	B	169	ALA	7.1
3	D	585	GLY	7.1

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Mol	Chain	Res	Type	RSRZ
1	B	112	ARG	7.1
1	B	170	VAL	7.1
2	M	779	GLY	7.1
3	D	1099	VAL	7.1
1	L	91	ASN	7.1
2	M	609	ASN	7.1
2	M	573	ARG	7.1
2	C	1116	ALA	7.0
3	D	250	LEU	7.0
2	M	560	MET	7.0
5	F	422	LEU	7.0
3	N	1091	SER	7.0
1	L	186	LEU	7.0
2	C	515	ALA	7.0
3	D	122	GLU	7.0
2	M	454	SER	7.0
2	C	541	SER	7.0
1	B	148	VAL	7.0
5	P	356	LYS	7.0
1	B	220	GLU	6.9
1	L	97	VAL	6.9
1	B	183	ASP	6.9
3	N	1408	ILE	6.9
2	C	265	ARG	6.9
3	D	772	PRO	6.9
2	M	220	GLY	6.9
3	N	551	ASN	6.9
3	D	552	ASN	6.9
3	D	189	GLN	6.9
3	N	1363	LEU	6.9
1	A	200	TRP	6.9
2	C	184	MET	6.8
2	C	979	THR	6.8
3	D	26	VAL	6.8
3	N	1317	ASP	6.8
3	N	27	GLU	6.8
2	C	544	THR	6.8
2	C	882	LEU	6.8
3	N	1138	ALA	6.8
5	P	140	ARG	6.8
3	D	946	GLY	6.8
3	N	1073	SER	6.8

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Mol	Chain	Res	Type	RSRZ
2	C	715	THR	6.8
2	M	341	THR	6.8
3	N	469	ASP	6.8
5	F	75	ILE	6.7
3	D	807	ALA	6.7
2	M	408	ARG	6.7
2	M	1113	GLU	6.7
3	D	757	ALA	6.7
3	N	230	TRP	6.7
2	M	155	PRO	6.7
5	P	412	GLU	6.7
5	P	144	ILE	6.7
3	N	972	LEU	6.7
3	D	506	GLY	6.7
1	A	226	SER	6.7
3	D	1224	VAL	6.7
1	K	77	GLU	6.7
1	L	159	LYS	6.7
2	M	550	LEU	6.6
2	C	344	PHE	6.6
3	N	1439	SER	6.6
3	N	1333	HIS	6.6
1	A	223	THR	6.6
2	M	1035	MET	6.6
2	M	511	GLU	6.6
2	C	258	TYR	6.6
3	D	867	ARG	6.6
3	N	243	ALA	6.6
3	N	1226	ALA	6.6
1	L	149	GLY	6.6
1	L	183	ASP	6.6
3	D	22	SER	6.6
3	N	969	ARG	6.5
4	O	45	ARG	6.5
2	C	943	VAL	6.5
1	K	128	HIS	6.5
2	M	591	SER	6.5
3	D	20	SER	6.5
1	L	80	LEU	6.5
5	P	121	GLY	6.5
3	D	1362	LYS	6.4
3	D	1161	GLU	6.4

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Mol	Chain	Res	Type	RSRZ
5	F	323	ASP	6.4
5	F	187	LEU	6.4
2	C	1112	PHE	6.4
3	N	847	ASP	6.4
2	C	266	ARG	6.4
3	D	121	THR	6.4
3	N	404	GLU	6.4
3	D	1361	VAL	6.4
3	N	235	ALA	6.4
3	D	708	LEU	6.4
3	N	24	GLY	6.4
2	C	255	ALA	6.3
3	N	425	GLY	6.3
3	N	868	TYR	6.3
1	L	46	SER	6.3
3	N	1307	LYS	6.3
5	F	414	ARG	6.3
3	N	1308	GLU	6.3
3	N	941	PHE	6.3
3	N	587	ARG	6.3
1	K	30	ARG	6.3
2	M	628	PHE	6.3
1	K	84	GLU	6.3
2	C	1034	GLU	6.3
2	C	779	GLY	6.3
2	C	221	LEU	6.3
3	D	138	LYS	6.3
5	F	95	THR	6.2
3	N	708	LEU	6.2
4	E	43	GLU	6.2
3	N	695	ILE	6.2
5	P	423	ASP	6.2
5	F	413	SER	6.2
1	K	220	GLU	6.2
2	C	1026	GLN	6.2
3	D	698	LYS	6.2
2	M	942	GLU	6.2
4	O	48	MET	6.2
2	C	1061	GLU	6.2
3	N	22	SER	6.2
3	D	21	TRP	6.2
5	F	392	VAL	6.1

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Mol	Chain	Res	Type	RSRZ
2	M	1068	GLU	6.1
3	D	365	ASP	6.1
3	N	860	LEU	6.1
2	M	196	LEU	6.1
2	M	603	VAL	6.1
3	N	609	GLY	6.1
1	A	214	ALA	6.1
3	D	1408	ILE	6.1
2	C	351	LEU	6.1
2	C	25	SER	6.1
3	N	548	ILE	6.1
1	B	127	LEU	6.1
3	D	471	GLU	6.1
4	O	77	GLU	6.1
2	C	47	ALA	6.1
3	D	562	ALA	6.1
5	P	184	ARG	6.0
5	P	334	PRO	6.0
5	P	357	ALA	6.0
2	C	728	HIS	6.0
1	B	186	LEU	6.0
1	B	128	HIS	6.0
2	C	1076	VAL	6.0
1	L	84	GLU	6.0
5	F	101	GLU	6.0
2	C	1080	SER	6.0
1	L	160	ASP	6.0
2	C	1118	LYS	6.0
2	C	349	ALA	6.0
3	D	809	PRO	6.0
2	M	2	GLU	6.0
3	N	25	GLU	6.0
1	B	223	THR	5.9
1	B	2	LEU	5.9
2	M	448	ASN	5.9
3	N	1420	LEU	5.9
2	C	209	ARG	5.9
5	F	184	ARG	5.9
3	D	1441	GLN	5.9
1	A	67	THR	5.9
2	C	512	ARG	5.9
5	F	88	ILE	5.9

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Mol	Chain	Res	Type	RSRZ
3	D	680	GLN	5.9
3	N	516	ALA	5.9
5	F	363	GLU	5.8
1	L	162	ILE	5.8
2	C	883	GLY	5.8
5	F	167	PRO	5.8
3	D	1404	ASN	5.8
1	B	6	LEU	5.8
5	F	262	VAL	5.8
3	N	1228	SER	5.8
2	M	677	MET	5.8
5	F	175	HIS	5.8
2	C	561	GLY	5.8
5	F	345	ALA	5.8
1	B	154	GLU	5.8
1	A	14	ARG	5.8
3	N	239	GLY	5.8
3	D	771	SER	5.8
3	N	92	HIS	5.8
3	N	364	GLY	5.8
3	N	1359	GLN	5.8
2	M	318	PRO	5.8
2	M	236	ILE	5.7
2	M	100	LEU	5.7
5	P	118	GLU	5.7
2	C	878	SER	5.7
3	D	615	ARG	5.7
2	M	145	GLY	5.7
2	M	912	PRO	5.7
5	P	86	HIS	5.7
3	N	1345	GLU	5.7
1	A	176	ARG	5.7
2	M	624	PRO	5.7
5	P	176	ILE	5.7
2	C	521	PRO	5.7
2	M	698	ASP	5.7
5	P	347	GLN	5.7
1	A	80	LEU	5.7
3	D	27	GLU	5.7
2	M	1070	ILE	5.6
3	D	941	PHE	5.6
4	E	62	THR	5.6

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Mol	Chain	Res	Type	RSRZ
3	N	1442	ASN	5.6
3	D	766	ALA	5.6
2	M	493	ARG	5.6
2	C	178	PRO	5.6
3	N	1232	PRO	5.6
3	N	378	ILE	5.6
5	F	170	HIS	5.6
2	C	252	LYS	5.6
2	M	1003	ASP	5.6
2	M	94	LEU	5.6
2	C	283	ILE	5.6
2	C	81	ASP	5.5
3	N	772	PRO	5.5
2	C	550	LEU	5.5
3	N	580	ALA	5.5
1	B	185	ARG	5.5
2	C	382	ILE	5.5
2	M	42	VAL	5.5
3	D	437	VAL	5.5
3	D	1418	LYS	5.5
3	D	90	MET	5.5
2	C	768	THR	5.5
2	M	95	TYR	5.5
2	M	613	VAL	5.5
2	M	950	LEU	5.5
1	K	156	HIS	5.5
2	C	43	GLY	5.5
2	C	341	THR	5.5
2	M	877	PRO	5.5
4	E	50	THR	5.5
2	C	226	VAL	5.5
1	A	220	GLU	5.5
2	C	511	GLU	5.5
3	N	517	VAL	5.5
1	B	96	THR	5.4
3	N	1088	THR	5.4
3	D	1227	GLN	5.4
3	N	97	THR	5.4
1	K	153	ALA	5.4
2	M	766	GLU	5.4
2	C	199	VAL	5.4
3	D	520	LEU	5.4

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Mol	Chain	Res	Type	RSRZ
5	F	348	SER	5.4
3	D	78	VAL	5.4
3	N	1297	GLU	5.4
2	C	457	ALA	5.4
5	P	177	ALA	5.4
3	D	832	ARG	5.4
1	B	216	GLU	5.3
1	L	6	LEU	5.3
3	D	699	VAL	5.3
3	N	940	THR	5.3
3	N	1118	ILE	5.3
3	N	238	PRO	5.3
4	E	42	PRO	5.3
5	P	173	TYR	5.3
5	P	249	ARG	5.3
2	C	876	VAL	5.3
2	C	1114	GLY	5.3
2	M	1034	GLU	5.3
3	N	979	GLU	5.3
1	L	169	ALA	5.3
2	C	509	ALA	5.3
2	M	649	VAL	5.3
5	P	147	LEU	5.3
1	L	1	MET	5.3
3	D	1308	GLU	5.3
1	B	3	ASP	5.2
5	F	334	PRO	5.2
3	N	1031	ASN	5.2
3	D	943	THR	5.2
2	M	263	ASP	5.2
2	C	751	PRO	5.2
1	B	222	LEU	5.2
3	D	595	GLY	5.2
2	C	1117	SER	5.2
2	M	528	GLU	5.2
3	D	755	ALA	5.2
2	C	447	ALA	5.2
5	F	357	ALA	5.2
2	C	188	LYS	5.2
3	D	425	GLY	5.2
3	N	233	LYS	5.2
3	N	615	ARG	5.2

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Mol	Chain	Res	Type	RSRZ
2	C	24	GLU	5.2
2	C	145	GLY	5.2
3	D	25	GLU	5.2
2	C	227	PHE	5.2
2	M	41	ASN	5.2
3	D	58	CYS	5.2
3	N	843	PHE	5.2
3	D	1128	VAL	5.1
2	M	268	ASP	5.1
3	D	1333	HIS	5.1
3	N	241	ILE	5.1
2	M	1117	SER	5.1
2	C	408	ARG	5.1
2	C	775	ARG	5.1
2	C	175	GLU	5.1
3	N	848	GLU	5.1
5	F	281	GLU	5.1
5	F	103	ALA	5.1
1	B	58	ILE	5.1
3	D	108	VAL	5.1
1	L	187	GLY	5.1
2	M	541	SER	5.1
3	N	808	THR	5.1
2	C	445	GLU	5.1
5	P	166	LEU	5.1
1	L	182	GLU	5.1
3	D	91	GLY	5.1
3	D	969	ARG	5.1
2	M	1061	GLU	5.0
3	N	1229	ILE	5.0
2	M	1114	GLY	5.0
3	D	1126	ASP	5.0
5	F	173	TYR	5.0
1	K	151	VAL	5.0
2	M	441	VAL	5.0
5	F	309	LYS	5.0
3	D	581	LEU	5.0
1	B	187	GLY	5.0
2	M	225	SER	5.0
3	D	1440	PHE	5.0
2	M	775	ARG	5.0
2	M	368	THR	5.0

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Mol	Chain	Res	Type	RSRZ
3	D	707	THR	5.0
3	D	378	ILE	5.0
3	D	1223	ILE	5.0
2	M	943	VAL	4.9
3	N	470	LEU	4.9
1	K	31	GLY	4.9
2	C	49	ARG	4.9
2	M	706	GLU	4.9
1	L	45	LEU	4.9
4	O	46	PRO	4.9
2	C	706	GLU	4.9
1	K	219	ARG	4.9
3	N	583	ASP	4.9
3	D	73	CYS	4.9
4	E	4	PRO	4.9
2	C	628	PHE	4.9
2	M	714	ASP	4.9
2	M	819	VAL	4.9
5	P	420	ASP	4.9
5	F	118	GLU	4.9
2	M	947	ALA	4.9
3	D	1210	SER	4.9
2	M	784	ASP	4.9
1	A	227	ASN	4.9
2	C	320	HIS	4.9
3	N	791	TYR	4.9
1	K	213	GLN	4.9
2	M	797	GLY	4.9
2	M	3	ILE	4.9
2	M	174	LEU	4.8
3	D	564	GLU	4.8
2	C	1092	LEU	4.8
3	D	404	GLU	4.8
5	P	422	LEU	4.8
3	N	236	TYR	4.8
5	P	190	ALA	4.8
2	C	100	LEU	4.8
2	M	151	ASP	4.8
3	N	28	LYS	4.8
5	F	358	LEU	4.8
5	P	106	VAL	4.8
2	C	1094	ALA	4.8

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Mol	Chain	Res	Type	RSRZ
3	D	1138	ALA	4.8
4	E	61	GLU	4.8
1	L	148	VAL	4.8
1	A	128	HIS	4.8
1	K	20	TYR	4.8
1	L	156	HIS	4.8
3	D	475	LYS	4.8
3	D	406	ASP	4.8
3	D	1169	ASP	4.8
2	C	193	LEU	4.8
3	D	95	LEU	4.8
3	D	639	LEU	4.8
1	L	155	LYS	4.8
2	C	603	VAL	4.8
2	M	409	ARG	4.8
4	O	54	LEU	4.7
3	N	1443	THR	4.7
5	F	335	ASP	4.7
5	P	391	GLY	4.7
2	M	283	ILE	4.7
2	M	987	ILE	4.7
5	F	361	LEU	4.7
2	C	345	ARG	4.7
3	N	1019	PRO	4.7
1	A	217	ILE	4.7
3	N	1346	ARG	4.7
3	N	169	TYR	4.7
3	D	1137	ARG	4.7
4	E	60	ALA	4.7
3	D	1294	VAL	4.7
5	P	181	GLU	4.7
1	L	157	GLY	4.7
3	D	619	LEU	4.7
3	N	564	GLU	4.7
5	P	87	GLU	4.7
2	M	604	ALA	4.7
3	N	1128	VAL	4.7
3	N	1288	GLU	4.7
1	B	138	LEU	4.7
1	K	142	VAL	4.7
3	D	443	VAL	4.7
3	D	63	TYR	4.6

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Mol	Chain	Res	Type	RSRZ
5	F	400	ILE	4.6
2	M	367	LEU	4.6
2	C	1042	ALA	4.6
2	M	985	GLY	4.6
3	D	754	PHE	4.6
3	D	759	ALA	4.6
1	L	152	PRO	4.6
2	C	444	PRO	4.6
3	D	521	PRO	4.6
3	D	544	TYR	4.6
2	C	367	LEU	4.6
3	N	123	LEU	4.6
3	N	476	GLU	4.6
3	N	226	PRO	4.6
2	C	829	GLN	4.6
2	C	649	VAL	4.6
1	L	116	PRO	4.6
2	C	1062	GLY	4.6
2	M	235	LEU	4.6
3	N	37	LEU	4.6
3	D	1091	SER	4.6
1	A	215	VAL	4.6
3	D	72	VAL	4.6
2	C	230	ARG	4.6
3	D	877	PRO	4.6
1	L	138	LEU	4.6
2	M	193	LEU	4.6
5	P	376	ILE	4.6
5	F	325	LYS	4.6
2	M	168	ARG	4.5
2	C	268	ASP	4.5
2	M	404	LEU	4.5
5	P	361	LEU	4.5
2	M	1039	ALA	4.5
3	N	709	HIS	4.5
5	F	405	LEU	4.5
3	N	1095	THR	4.5
4	O	78	ASN	4.5
5	F	347	GLN	4.5
3	N	1434	TRP	4.5
5	P	369	LEU	4.5
2	M	167	LYS	4.5

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Mol	Chain	Res	Type	RSRZ
3	D	453	ASP	4.5
2	C	64	LEU	4.5
1	A	212	ASN	4.5
2	M	177	GLU	4.5
2	C	877	PRO	4.5
2	C	912	PRO	4.5
3	D	41	ARG	4.5
3	D	587	ARG	4.5
3	D	1313	VAL	4.5
3	D	156	GLU	4.5
2	C	359	MET	4.5
1	A	7	LYS	4.5
3	D	709	HIS	4.4
3	N	223	LEU	4.4
2	C	722	ILE	4.4
3	D	469	ASP	4.4
1	A	87	VAL	4.4
3	D	706	PRO	4.4
2	M	756	VAL	4.4
3	D	77	GLY	4.4
3	D	578	VAL	4.4
2	M	722	ILE	4.4
1	A	175	ARG	4.4
2	M	317	VAL	4.4
5	F	106	VAL	4.4
3	D	36	THR	4.4
3	N	1404	ASN	4.4
2	C	446	GLY	4.4
4	O	11	GLY	4.4
3	D	1303	TYR	4.4
2	C	236	ILE	4.4
5	P	281	GLU	4.4
4	O	55	PHE	4.4
3	D	1310	ARG	4.4
1	A	213	GLN	4.4
2	C	315	ALA	4.4
3	N	203	ALA	4.4
1	L	170	VAL	4.3
2	M	455	LEU	4.3
2	M	757	GLY	4.3
5	F	87	GLU	4.3
2	C	94	LEU	4.3

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Mol	Chain	Res	Type	RSRZ
2	C	985	GLY	4.3
5	P	337	HIS	4.3
4	E	51	LEU	4.3
2	M	742	VAL	4.3
3	N	1013	GLU	4.3
2	C	208	ALA	4.3
2	M	1079	PRO	4.3
3	N	1438	ALA	4.3
2	M	79	PRO	4.3
3	D	66	GLN	4.3
2	C	780	GLU	4.3
5	F	282	LEU	4.3
1	L	126	ASP	4.3
3	D	518	PRO	4.3
2	M	123	GLU	4.3
2	M	108	ILE	4.3
1	K	159	LYS	4.3
2	C	792	VAL	4.3
2	M	587	VAL	4.3
2	M	629	TYR	4.3
3	N	589	ALA	4.3
3	N	680	GLN	4.2
2	C	404	LEU	4.2
5	F	418	LEU	4.2
2	M	244	PRO	4.2
3	D	1047	LYS	4.2
2	M	1094	ALA	4.2
3	D	752	SER	4.2
3	N	1441	GLN	4.2
5	F	109	GLY	4.2
3	N	225	LEU	4.2
2	M	767	PRO	4.2
2	M	443	THR	4.2
2	M	246	ASP	4.2
3	D	535	PHE	4.2
3	N	1096	ARG	4.2
2	M	532	MET	4.2
1	B	115	LEU	4.2
3	D	123	LEU	4.2
1	A	150	TYR	4.2
2	C	629	TYR	4.2
2	M	229	MET	4.2

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Mol	Chain	Res	Type	RSRZ
3	N	1048	PRO	4.2
3	N	610	LYS	4.2
2	M	1119	ARG	4.2
3	D	609	GLY	4.2
5	F	108	GLU	4.2
2	M	222	MET	4.2
2	C	262	ALA	4.2
3	N	240	GLU	4.2
5	F	305	GLU	4.2
5	P	410	TYR	4.2
2	M	737	LEU	4.2
1	K	81	ASN	4.1
3	D	1070	TYR	4.1
3	N	707	THR	4.1
3	N	1003	VAL	4.1
2	C	1064	ASN	4.1
5	F	376	ILE	4.1
3	N	21	TRP	4.1
2	M	933	GLY	4.1
2	C	1093	GLN	4.1
2	M	823	VAL	4.1
1	B	171	PHE	4.1
3	D	761	ILE	4.1
5	P	400	ILE	4.1
2	C	177	GLU	4.1
5	P	169	GLU	4.1
2	C	879	ARG	4.1
5	F	404	ALA	4.1
3	N	584	ASN	4.1
2	C	613	VAL	4.1
3	D	579	ASP	4.1
3	D	623	VAL	4.1
1	A	77	GLU	4.1
1	A	115	LEU	4.1
4	O	83	ASP	4.1
2	M	601	GLY	4.1
3	D	1032	PRO	4.1
2	C	592	LEU	4.1
2	C	151	ASP	4.1
2	M	780	GLU	4.0
1	K	14	ARG	4.0
2	M	101	ILE	4.0

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Mol	Chain	Res	Type	RSRZ
3	D	408	GLU	4.0
5	F	201	LYS	4.0
1	K	87	VAL	4.0
2	M	113	VAL	4.0
1	B	211	LEU	4.0
1	K	74	ASP	4.0
2	M	1092	LEU	4.0
2	C	312	ALA	4.0
3	N	1241	PHE	4.0
2	C	668	LEU	4.0
3	D	1363	LEU	4.0
3	D	936	TYR	4.0
3	N	1231	GLU	4.0
1	K	76	VAL	4.0
3	D	1159	ARG	4.0
1	K	99	LEU	4.0
5	P	329	TYR	4.0
3	D	1439	SER	4.0
1	K	144	VAL	4.0
2	C	504	GLU	4.0
3	D	940	THR	4.0
2	C	884	GLN	4.0
2	C	976	ASP	4.0
1	L	81	ASN	4.0
1	B	182	GLU	4.0
2	C	384	GLU	4.0
3	D	979	GLU	4.0
1	B	120	VAL	4.0
2	C	1111	ILE	4.0
1	B	168	ASP	3.9
1	K	10	VAL	3.9
2	C	346	VAL	3.9
2	C	823	VAL	3.9
1	K	157	GLY	3.9
2	M	124	ASP	3.9
2	M	175	GLU	3.9
2	M	1078	GLU	3.9
3	N	1007	VAL	3.9
3	D	94	GLU	3.9
3	D	1454	GLY	3.9
2	C	228	ALA	3.9
2	C	723	THR	3.9

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Mol	Chain	Res	Type	RSRZ
2	C	1066	ALA	3.9
2	M	471	TYR	3.9
3	N	63	TYR	3.9
3	D	1251	ASP	3.9
2	C	609	ASN	3.9
3	D	909	ASN	3.9
1	K	47	SER	3.9
1	K	66	SER	3.9
2	C	42	VAL	3.9
2	C	663	ASN	3.9
3	N	518	PRO	3.9
2	C	757	GLY	3.9
2	C	1115	LEU	3.9
2	M	64	LEU	3.9
3	D	184	GLU	3.9
5	P	100	VAL	3.9
3	N	1455	LYS	3.9
2	C	225	SER	3.9
3	D	580	ALA	3.9
1	K	130	ALA	3.8
3	N	536	ALA	3.8
3	N	91	GLY	3.8
2	M	625	LEU	3.8
1	A	65	PHE	3.8
2	C	368	THR	3.8
2	C	843	HIS	3.8
3	N	430	ASP	3.8
5	F	190	ALA	3.8
2	C	798	GLY	3.8
3	N	706	PRO	3.8
1	K	212	ASN	3.8
3	D	976	GLN	3.8
1	B	192	LEU	3.8
2	C	237	ARG	3.8
2	M	247	PRO	3.8
2	M	585	GLU	3.8
2	C	816	LYS	3.8
3	N	1303	TYR	3.8
2	C	270	GLY	3.8
3	D	243	ALA	3.8
5	F	297	PRO	3.8
3	D	555	LYS	3.8

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Mol	Chain	Res	Type	RSRZ
3	N	671	LYS	3.8
2	M	25	SER	3.8
3	D	1034	GLN	3.8
2	C	443	THR	3.8
3	N	1315	ASP	3.8
3	N	424	GLY	3.8
5	P	387	GLY	3.8
1	B	142	VAL	3.8
2	M	612	VAL	3.8
3	N	440	VAL	3.8
2	C	278	GLU	3.8
2	M	161	SER	3.8
2	M	718	GLY	3.8
5	F	143	HIS	3.8
2	C	784	ASP	3.7
1	A	159	LYS	3.7
2	C	737	LEU	3.7
5	P	282	LEU	3.7
3	D	517	VAL	3.7
3	N	126	VAL	3.7
3	N	1294	VAL	3.7
2	C	1069	ALA	3.7
3	D	59	ALA	3.7
3	D	61	GLY	3.7
5	P	108	GLU	3.7
2	C	676	ILE	3.7
2	C	936	VAL	3.7
3	N	1169	ASP	3.7
2	M	615	TYR	3.7
3	N	1356	TYR	3.7
2	C	591	SER	3.7
1	A	189	ARG	3.7
2	C	442	GLU	3.7
2	M	1115	LEU	3.7
3	D	582	LEU	3.7
3	D	76	CYS	3.7
2	C	756	VAL	3.7
2	M	676	ILE	3.7
3	N	78	VAL	3.7
2	C	601	GLY	3.7
2	M	24	GLU	3.7
2	M	552	HIS	3.7

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Mol	Chain	Res	Type	RSRZ
3	N	234	GLU	3.7
3	N	1436	SER	3.7
2	M	762	LYS	3.7
2	M	1019	GLN	3.7
2	C	144	PRO	3.7
3	D	776	GLU	3.7
3	D	1260	ILE	3.7
1	B	56	VAL	3.7
1	B	140	MET	3.7
2	C	253	ALA	3.7
2	C	13	ILE	3.7
2	C	1022	GLY	3.7
2	M	885	ILE	3.7
2	M	75	GLU	3.7
3	D	1345	GLU	3.7
2	C	372	LEU	3.7
2	C	626	ARG	3.7
3	D	1241	PHE	3.6
3	D	563	PRO	3.6
2	C	314	THR	3.6
2	C	660	ALA	3.6
3	D	1437	ALA	3.6
3	D	899	LEU	3.6
2	M	875	GLY	3.6
3	D	1359	GLN	3.6
5	P	296	GLY	3.6
3	N	119	SER	3.6
3	N	1433	SER	3.6
3	N	562	ALA	3.6
3	N	1220	ALA	3.6
2	C	1095	LEU	3.6
2	M	583	LEU	3.6
3	D	1346	ARG	3.6
3	N	604	THR	3.6
3	D	203	ALA	3.6
3	D	1293	PHE	3.6
2	M	949	LYS	3.6
2	C	945	ARG	3.6
2	M	1043	TYR	3.6
3	N	381	ALA	3.6
1	K	140	MET	3.6
2	C	102	HIS	3.6

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Mol	Chain	Res	Type	RSRZ
3	D	92	HIS	3.6
3	D	558	LEU	3.6
3	N	798	GLU	3.6
3	N	1421	LEU	3.6
3	D	1228	SER	3.5
2	C	335	THR	3.5
1	A	144	VAL	3.5
3	D	126	VAL	3.5
2	M	60	GLY	3.5
5	F	146	GLY	3.5
1	A	84	GLU	3.5
1	B	160	ASP	3.5
1	K	53	VAL	3.5
2	M	534	VAL	3.5
4	O	5	GLY	3.5
2	M	668	LEU	3.5
5	F	369	LEU	3.5
2	C	459	ALA	3.5
1	K	65	PHE	3.5
3	N	1053	PHE	3.5
2	C	742	VAL	3.5
3	N	18	ILE	3.5
2	C	248	PRO	3.5
3	N	718	PRO	3.5
2	M	22	GLN	3.5
3	D	774	SER	3.5
3	N	799	LYS	3.5
5	F	166	LEU	3.5
1	L	145	ASP	3.5
2	M	606	VAL	3.5
2	M	1020	PRO	3.5
5	F	401	GLU	3.5
3	D	449	SER	3.5
1	K	2	LEU	3.5
1	B	5	LYS	3.5
3	N	167	GLU	3.5
3	N	1161	GLU	3.5
5	P	285	GLU	3.5
3	N	547	LEU	3.5
2	M	723	THR	3.4
1	K	210	ALA	3.4
1	B	114	PHE	3.4

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Mol	Chain	Res	Type	RSRZ
1	K	200	TRP	3.4
3	D	1339	LYS	3.4
2	C	50	GLU	3.4
2	M	1041	GLU	3.4
3	N	608	SER	3.4
2	M	741	GLY	3.4
3	D	711	LEU	3.4
3	N	554	LEU	3.4
4	O	51	LEU	3.4
2	M	675	ALA	3.4
2	M	359	MET	3.4
3	N	441	ARG	3.4
3	N	1306	PRO	3.4
5	F	172	ARG	3.4
2	M	9	ILE	3.4
2	C	718	GLY	3.4
2	M	883	GLY	3.4
5	F	395	GLU	3.4
3	N	802	ALA	3.4
5	F	420	ASP	3.4
3	N	20	SER	3.4
3	N	366	LYS	3.4
3	N	1463	LYS	3.4
2	C	947	ALA	3.4
2	C	540	PHE	3.4
2	C	563	ASN	3.4
2	M	1037	VAL	3.4
2	C	761	PHE	3.4
5	F	263	HIS	3.4
2	M	128	ILE	3.4
5	F	213	ILE	3.4
1	L	132	LEU	3.3
3	N	138	LYS	3.3
3	N	623	VAL	3.3
2	C	132	ALA	3.3
2	C	604	ALA	3.3
5	F	402	ASN	3.3
1	B	84	GLU	3.3
1	K	223	THR	3.3
2	C	456	ALA	3.3
2	M	646	GLY	3.3
3	D	1225	ALA	3.3

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Mol	Chain	Res	Type	RSRZ
3	N	1064	GLY	3.3
1	B	16	GLN	3.3
1	K	122	ILE	3.3
2	C	313	LEU	3.3
3	N	1041	LEU	3.3
3	N	159	ARG	3.3
5	F	412	GLU	3.3
2	C	149	THR	3.3
5	F	353	GLU	3.3
3	D	1338	ALA	3.3
1	L	140	MET	3.3
2	M	922	PHE	3.3
2	C	108	ILE	3.3
2	M	754	ILE	3.3
2	M	944	LEU	3.3
3	N	1072	ILE	3.3
3	N	1454	GLY	3.3
2	M	751	PRO	3.3
2	C	699	PHE	3.3
2	M	1074	GLU	3.3
5	F	389	PHE	3.3
2	C	348	LEU	3.3
2	M	66	LEU	3.3
3	D	1292	VAL	3.3
3	D	1344	VAL	3.3
1	K	116	PRO	3.3
3	D	402	PRO	3.3
3	D	96	ALA	3.3
2	M	278	GLU	3.3
5	F	104	ARG	3.3
3	D	611	GLN	3.3
2	M	125	GLY	3.2
5	P	418	LEU	3.2
1	A	66	SER	3.2
2	M	102	HIS	3.2
4	E	58	PRO	3.2
2	M	262	ALA	3.2
3	N	1085	ALA	3.2
3	N	1314	LYS	3.2
5	F	350	LEU	3.2
5	P	405	LEU	3.2
2	C	113	VAL	3.2

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Mol	Chain	Res	Type	RSRZ
1	B	7	LYS	3.2
3	D	37	LEU	3.2
3	N	581	LEU	3.2
1	A	8	ALA	3.2
2	M	939	ARG	3.2
3	D	949	ILE	3.2
3	D	590	PRO	3.2
3	N	108	VAL	3.2
3	N	1379	VAL	3.2
1	A	126	ASP	3.2
2	C	818	GLY	3.2
3	D	503	LEU	3.2
1	K	97	VAL	3.2
3	D	896	ALA	3.2
2	M	925	TYR	3.2
2	C	1090	LYS	3.2
5	P	143	HIS	3.2
2	C	66	LEU	3.2
2	M	372	LEU	3.2
2	C	714	ASP	3.2
1	A	142	VAL	3.2
2	M	743	VAL	3.2
3	N	149	LYS	3.2
3	N	1230	GLY	3.2
2	M	626	ARG	3.1
3	D	141	ILE	3.1
3	D	948	THR	3.1
1	A	53	VAL	3.1
3	N	202	VAL	3.1
2	M	154	ARG	3.1
3	D	869	MET	3.1
5	F	178	ARG	3.1
3	D	983	LEU	3.1
3	D	1384	PRO	3.1
1	B	210	ALA	3.1
3	N	58	CYS	3.1
2	M	882	LEU	3.1
3	D	97	THR	3.1
3	N	1066	THR	3.1
3	N	1260	ILE	3.1
1	B	205	VAL	3.1
3	N	1127	GLU	3.1

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Mol	Chain	Res	Type	RSRZ
2	C	925	TYR	3.1
2	C	1079	PRO	3.1
3	N	503	LEU	3.1
2	C	741	GLY	3.1
3	N	561	GLY	3.1
2	C	710	ILE	3.1
2	M	314	THR	3.1
2	M	1017	THR	3.1
5	P	321	ILE	3.1
1	K	73	GLU	3.1
2	C	213	ALA	3.1
2	C	1039	ALA	3.1
3	N	1292	VAL	3.1
3	D	765	SER	3.1
1	B	207	PRO	3.1
2	C	316	GLY	3.1
2	C	931	GLY	3.1
5	P	175	HIS	3.1
2	C	675	ALA	3.1
2	M	492	ASP	3.1
2	M	131	GLY	3.1
5	F	249	ARG	3.1
3	D	1312	LEU	3.1
3	N	204	LEU	3.1
3	N	1234	THR	3.1
4	O	62	THR	3.1
3	N	1014	ASN	3.1
5	P	366	ALA	3.1
2	C	79	PRO	3.0
2	M	117	HIS	3.0
2	M	728	HIS	3.0
5	P	417	LYS	3.0
1	A	210	ALA	3.0
1	K	56	VAL	3.0
3	N	788	GLY	3.0
3	N	698	LYS	3.0
5	P	233	PHE	3.0
3	N	810	GLU	3.0
2	M	1116	ALA	3.0
3	D	900	ILE	3.0
3	N	84	ILE	3.0
2	M	190	LYS	3.0

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Mol	Chain	Res	Type	RSRZ
3	D	24	GLY	3.0
3	D	632	VAL	3.0
3	D	895	VAL	3.0
4	E	47	LYS	3.0
5	F	417	LYS	3.0
3	N	1238	MET	3.0
3	N	1364	HIS	3.0
4	E	57	ASP	3.0
5	F	384	GLU	3.0
2	M	531	PHE	3.0
2	M	655	LEU	3.0
3	D	740	PHE	3.0
2	C	562	SER	3.0
2	C	786	LYS	3.0
2	M	85	GLU	3.0
3	D	1297	GLU	3.0
5	P	195	VAL	3.0
2	M	342	ASP	3.0
2	M	945	ARG	3.0
3	D	159	ARG	3.0
3	D	1172	HIS	3.0
1	A	218	LEU	3.0
5	P	395	GLU	3.0
2	M	699	PHE	3.0
3	N	582	LEU	3.0
1	A	19	GLU	3.0
3	D	1318	TYR	3.0
2	C	54	ILE	3.0
3	D	1277	ILE	3.0
3	N	125	GLN	3.0
3	N	179	VAL	3.0
5	P	297	PRO	3.0
3	N	965	GLU	3.0
2	M	221	LEU	3.0
2	M	926	PHE	3.0
1	K	98	THR	3.0
3	D	996	TRP	3.0
2	C	62	GLY	3.0
2	M	472	ARG	3.0
2	M	315	ALA	3.0
2	M	533	ASP	3.0
3	D	136	ASP	3.0

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Mol	Chain	Res	Type	RSRZ
1	B	124	ASN	3.0
1	B	61	VAL	2.9
3	D	142	LEU	2.9
4	O	73	LEU	2.9
1	B	199	ILE	2.9
1	L	58	ILE	2.9
3	D	631	ILE	2.9
3	D	692	GLU	2.9
5	F	189	GLU	2.9
3	D	1259	VAL	2.9
2	M	696	LYS	2.9
5	F	352	GLU	2.9
3	D	381	ALA	2.9
2	C	101	ILE	2.9
3	D	60	CYS	2.9
3	D	1257	PRO	2.9
1	K	149	GLY	2.9
1	K	5	LYS	2.9
2	C	1020	PRO	2.9
2	C	822	VAL	2.9
5	F	195	VAL	2.9
5	P	368	VAL	2.9
1	K	85	LEU	2.9
3	D	554	LEU	2.9
3	N	899	LEU	2.9
3	D	1480	PHE	2.9
3	D	64	LYS	2.9
1	K	226	SER	2.9
2	C	257	VAL	2.9
3	D	747	VAL	2.9
1	L	36	LEU	2.9
1	K	175	ARG	2.9
2	C	831	ARG	2.9
3	D	1438	ALA	2.9
3	N	1338	ALA	2.9
2	M	129	ILE	2.9
3	N	957	PRO	2.9
5	F	302	LYS	2.9
1	B	46	SER	2.9
3	D	119	SER	2.9
3	D	633	VAL	2.9
3	N	578	VAL	2.9

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Mol	Chain	Res	Type	RSRZ
3	N	1486	VAL	2.9
3	N	1235	GLN	2.9
3	D	718	PRO	2.9
3	N	555	LYS	2.9
2	M	614	ARG	2.8
2	C	514	VAL	2.8
3	D	1379	VAL	2.8
3	N	1017	PHE	2.8
2	C	338	GLU	2.8
2	C	1033	GLY	2.8
1	L	146	ARG	2.8
3	N	631	ILE	2.8
2	C	161	SER	2.8
2	C	612	VAL	2.8
3	D	914	LEU	2.8
3	N	637	LEU	2.8
1	B	23	PHE	2.8
3	N	184	GLU	2.8
2	M	45	GLN	2.8
2	M	647	GLN	2.8
3	N	1074	SER	2.8
5	P	375	LEU	2.8
3	N	1251	ASP	2.8
3	D	455	ARG	2.8
3	N	996	TRP	2.8
3	D	626	SER	2.8
2	C	932	GLU	2.8
1	L	161	ARG	2.8
2	M	199	VAL	2.8
2	M	995	MET	2.8
1	A	15	THR	2.8
2	C	832	LYS	2.8
3	D	1232	PRO	2.8
3	N	752	SER	2.8
2	C	388	ARG	2.8
3	N	19	ARG	2.8
5	P	335	ASP	2.8
3	N	178	LEU	2.8
3	D	395	VAL	2.8
2	M	602	GLU	2.8
3	N	1380	GLU	2.8
2	M	1057	SER	2.8

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Mol	Chain	Res	Type	RSRZ
5	P	213	ILE	2.8
3	D	1262	LEU	2.8
3	N	914	LEU	2.8
1	K	148	VAL	2.8
2	C	534	VAL	2.8
3	D	163	TYR	2.8
3	N	633	VAL	2.8
3	N	1000	THR	2.8
3	N	1318	TYR	2.8
2	C	922	PHE	2.8
2	M	439	CYS	2.8
3	D	1380	GLU	2.7
2	C	238	LEU	2.7
2	C	935	GLY	2.7
2	C	963	LEU	2.7
2	C	828	ALA	2.7
3	N	1210	SER	2.7
5	P	333	ILE	2.7
1	A	31	GLY	2.7
1	B	206	THR	2.7
2	C	1047	HIS	2.7
3	N	692	GLU	2.7
3	D	726	ILE	2.7
1	A	99	LEU	2.7
2	C	666	LEU	2.7
3	D	467	GLU	2.7
2	M	1016	ILE	2.7
1	B	218	LEU	2.7
3	D	583	ASP	2.7
5	F	212	LEU	2.7
5	P	125	ASP	2.7
2	M	469	THR	2.7
2	C	743	VAL	2.7
2	M	249	LYS	2.7
3	N	1367	HIS	2.7
1	K	8	ALA	2.7
3	D	205	TYR	2.7
3	N	206	ARG	2.7
3	N	710	ARG	2.7
2	C	131	GLY	2.7
2	M	59	LYS	2.7
2	M	592	LEU	2.7

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Mol	Chain	Res	Type	RSRZ
3	N	1269	LYS	2.7
3	N	942	SER	2.7
3	D	1013	GLU	2.7
3	D	1409	ALA	2.7
5	F	366	ALA	2.7
5	F	326	ASP	2.7
3	D	710	ARG	2.7
3	D	577	ALA	2.7
3	D	1110	ALA	2.7
3	N	205	TYR	2.7
2	C	41	ASN	2.7
3	D	423	ASP	2.6
1	K	209	GLU	2.6
3	D	818	ARG	2.6
3	D	947	ILE	2.6
3	N	622	ARG	2.6
3	N	1458	GLU	2.6
2	C	310	LEU	2.6
3	D	1256	LEU	2.6
5	F	349	LEU	2.6
2	M	730	SER	2.6
5	F	351	SER	2.6
3	D	1003	VAL	2.6
3	N	896	ALA	2.6
5	P	255	ALA	2.6
2	M	562	SER	2.6
3	N	809	PRO	2.6
2	C	22	GLN	2.6
2	M	761	PHE	2.6
3	N	403	PHE	2.6
5	P	262	VAL	2.6
3	D	43	GLY	2.6
3	D	932	ASP	2.6
2	C	1089	VAL	2.6
2	M	1089	VAL	2.6
4	E	27	ALA	2.6
2	C	59	LYS	2.6
2	M	998	TYR	2.6
2	M	620	LEU	2.6
2	M	1095	LEU	2.6
3	N	142	LEU	2.6
3	N	1040	GLY	2.6

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Mol	Chain	Res	Type	RSRZ
1	A	140	MET	2.6
3	N	980	MET	2.6
1	L	103	ALA	2.6
2	C	65	VAL	2.6
2	M	461	VAL	2.6
2	C	551	GLU	2.6
3	N	1164	ARG	2.6
3	N	1435	LEU	2.6
5	F	174	LEU	2.6
2	M	663	ASN	2.6
2	C	532	MET	2.6
2	C	160	ALA	2.6
2	M	198	ARG	2.6
3	D	1170	ASP	2.6
1	B	92	PRO	2.6
3	D	902	LEU	2.6
1	A	122	ILE	2.6
3	N	1277	ILE	2.6
2	M	453	THR	2.6
5	P	279	GLN	2.6
2	C	439	CYS	2.6
2	C	573	ARG	2.5
2	C	713	ARG	2.5
3	D	1456	LYS	2.5
3	N	72	VAL	2.5
3	N	774	SER	2.5
2	C	82	GLU	2.5
2	M	963	LEU	2.5
3	D	811	GLU	2.5
3	N	1407	LEU	2.5
5	F	375	LEU	2.5
2	M	726	ILE	2.5
2	C	353	ARG	2.5
2	M	568	ALA	2.5
5	F	142	ARG	2.5
5	F	328	PHE	2.5
2	C	362	GLY	2.5
2	C	150	PRO	2.5
3	D	88	TYR	2.5
2	M	421	GLU	2.5
3	D	758	GLU	2.5
1	A	174	VAL	2.5

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Mol	Chain	Res	Type	RSRZ
3	N	771	SER	2.5
5	P	378	GLY	2.5
2	C	1017	THR	2.5
2	M	611	ILE	2.5
5	F	268	ILE	2.5
2	C	684	PHE	2.5
3	D	882	PHE	2.5
5	P	242	TRP	2.5
3	D	1301	LYS	2.5
2	M	176	VAL	2.5
3	D	377	VAL	2.5
5	F	312	GLN	2.5
5	P	196	VAL	2.5
2	M	264	PRO	2.5
3	D	1048	PRO	2.5
5	P	124	PRO	2.5
3	N	1004	THR	2.5
2	C	933	GLY	2.5
3	D	204	LEU	2.5
1	K	191	ASP	2.5
4	E	83	ASP	2.5
3	D	1118	ILE	2.5
3	D	1238	MET	2.5
1	K	214	ALA	2.5
1	K	89	PHE	2.5
2	C	249	LYS	2.5
3	N	556	LYS	2.5
5	P	162	LYS	2.5
1	A	138	LEU	2.5
2	C	583	LEU	2.5
3	D	881	LEU	2.5
3	D	1421	LEU	2.5
3	N	197	SER	2.5
3	N	759	ALA	2.5
5	P	373	LYS	2.4
2	C	324	ASP	2.4
2	M	82	GLU	2.4
3	N	753	SER	2.4
1	A	181	VAL	2.4
2	C	85	GLU	2.4
2	C	198	ARG	2.4
2	M	999	HIS	2.4

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Mol	Chain	Res	Type	RSRZ
3	D	886	VAL	2.4
3	D	1486	VAL	2.4
3	N	760	ARG	2.4
3	D	161	LEU	2.4
5	P	126	LEU	2.4
3	N	237	LYS	2.4
5	F	296	GLY	2.4
5	P	115	LYS	2.4
2	C	1057	SER	2.4
2	M	789	SER	2.4
3	N	90	MET	2.4
1	L	125	PRO	2.4
2	M	144	PRO	2.4
5	P	314	PRO	2.4
2	M	1006	HIS	2.4
3	D	922	LEU	2.4
3	N	1065	LEU	2.4
1	A	74	ASP	2.4
3	N	467	GLU	2.4
3	N	1100	ASP	2.4
5	F	301	ALA	2.4
2	M	248	PRO	2.4
3	D	1307	LYS	2.4
5	F	341	PRO	2.4
3	N	632	VAL	2.4
5	F	354	LEU	2.4
5	P	85	LEU	2.4
2	C	206	THR	2.4
3	D	1095	THR	2.4
2	M	203	ASP	2.4
2	M	405	ARG	2.4
3	N	579	ASP	2.4
2	C	570	PRO	2.4
2	C	615	TYR	2.4
1	L	21	GLY	2.4
3	D	418	GLY	2.4
3	D	627	GLY	2.4
5	F	322	GLY	2.4
5	P	402	ASN	2.4
5	P	365	GLU	2.4
1	A	76	VAL	2.4
3	D	637	LEU	2.4

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Mol	Chain	Res	Type	RSRZ
3	N	895	VAL	2.4
5	F	271	LEU	2.4
3	D	241	ILE	2.4
3	D	230	TRP	2.4
3	D	391	ALA	2.4
2	C	704	HIS	2.4
3	D	69	GLU	2.4
4	E	78	ASN	2.4
2	C	342	ASP	2.4
5	P	351	SER	2.4
2	C	568	ALA	2.4
3	N	1242	HIS	2.4
3	D	1442	ASN	2.3
2	M	669	GLY	2.3
3	N	621	LYS	2.3
3	N	936	TYR	2.3
3	N	1039	CYS	2.3
5	P	146	GLY	2.3
2	M	967	PHE	2.3
2	C	355	VAL	2.3
1	B	68	ILE	2.3
3	D	84	ILE	2.3
3	N	1274	ILE	2.3
5	F	411	HIS	2.3
1	A	89	PHE	2.3
3	D	1033	GLN	2.3
2	M	357	GLU	2.3
3	N	73	CYS	2.3
5	P	401	GLU	2.3
2	C	328	LEU	2.3
1	A	51	THR	2.3
2	M	1090	LYS	2.3
3	D	1327	ARG	2.3
1	A	123	MET	2.3
3	N	501	ALA	2.3
3	N	726	ILE	2.3
5	F	188	ILE	2.3
1	A	228	PRO	2.3
2	M	570	PRO	2.3
5	P	153	PRO	2.3
1	K	108	GLU	2.3
2	M	81	ASP	2.3

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Mol	Chain	Res	Type	RSRZ
3	N	151	GLN	2.3
3	D	1061	PHE	2.3
3	N	1300	SER	2.3
5	F	192	LEU	2.3
1	A	117	VAL	2.3
2	C	569	VAL	2.3
2	M	569	VAL	2.3
2	C	472	ARG	2.3
3	D	1491	THR	2.3
3	N	1357	ARG	2.3
2	C	80	GLN	2.3
2	M	561	GLY	2.3
4	E	53	GLY	2.3
5	F	216	GLY	2.3
2	M	415	PRO	2.3
2	M	499	ALA	2.3
3	D	481	MET	2.3
3	N	479	GLU	2.3
1	L	23	PHE	2.3
2	C	708	TYR	2.3
3	N	410	SER	2.3
3	N	602	SER	2.3
2	M	65	VAL	2.3
1	L	29	GLU	2.3
3	N	1081	GLY	2.3
1	L	7	LYS	2.3
2	M	272	ALA	2.3
3	D	208	PRO	2.3
3	D	226	PRO	2.3
5	P	404	ALA	2.3
2	M	1112	PHE	2.3
1	B	82	LEU	2.3
3	D	465	LEU	2.3
3	D	1160	LEU	2.3
5	F	300	ASP	2.3
3	D	52	PRO	2.3
1	K	58	ILE	2.3
2	M	213	ALA	2.3
3	N	1023	MET	2.3
5	F	251	ILE	2.3
3	D	1164	ARG	2.3
2	M	442	GLU	2.3

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Mol	Chain	Res	Type	RSRZ
1	B	132	LEU	2.3
1	K	127	LEU	2.3
2	C	61	LYS	2.3
2	M	755	LEU	2.3
2	M	918	LEU	2.3
2	C	1043	TYR	2.3
2	M	365	ASP	2.3
1	B	1	MET	2.2
2	C	140	ILE	2.2
3	D	1085	ALA	2.2
5	F	169	GLU	2.2
5	P	188	ILE	2.2
2	M	832	LYS	2.2
3	N	77	GLY	2.2
3	N	1222	GLY	2.2
2	C	289	THR	2.2
1	B	41	ARG	2.2
3	N	747	VAL	2.2
2	M	132	ALA	2.2
2	M	407	LYS	2.2
5	F	112	ALA	2.2
2	C	1016	ILE	2.2
1	K	126	ASP	2.2
2	C	999	HIS	2.2
3	D	1263	PHE	2.2
1	L	197	LEU	2.2
3	N	156	GLU	2.2
3	N	728	LEU	2.2
1	B	110	LYS	2.2
3	N	1301	LYS	2.2
2	C	873	PRO	2.2
2	M	456	ALA	2.2
2	M	1045	ALA	2.2
2	C	754	ILE	2.2
2	M	872	ASN	2.2
3	D	212	ARG	2.2
2	M	839	LEU	2.2
2	M	1040	LEU	2.2
3	D	409	VAL	2.2
1	L	220	GLU	2.2
2	M	932	GLU	2.2
2	C	129	ILE	2.2

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Mol	Chain	Res	Type	RSRZ
3	D	767	HIS	2.2
3	N	1172	HIS	2.2
2	M	106	GLY	2.2
2	C	1088	LEU	2.2
2	M	551	GLU	2.2
1	B	139	ASN	2.2
2	C	399	ASN	2.2
2	C	667	ALA	2.2
3	N	1289	LYS	2.2
1	K	138	LEU	2.2
1	L	127	LEU	2.2
3	D	965	GLU	2.2
5	F	365	GLU	2.2
3	D	62	LYS	2.2
1	L	56	VAL	2.2
3	N	1394	VAL	2.2
1	K	52	ALA	2.2
3	N	391	ALA	2.2
5	F	255	ALA	2.2
2	M	245	GLY	2.2
3	D	745	MET	2.2
2	C	1019	GLN	2.2
3	D	190	GLU	2.2
4	O	41	GLU	2.2
4	E	45	ARG	2.2
3	D	1479	ASP	2.2
5	P	331	ASP	2.2
2	M	643	VAL	2.1
3	N	1355	VAL	2.1
3	N	746	ALA	2.1
1	B	217	ILE	2.1
1	A	114	PHE	2.1
1	A	211	LEU	2.1
2	C	174	LEU	2.1
3	N	1325	LEU	2.1
3	D	1125	PRO	2.1
3	D	833	GLU	2.1
1	A	97	VAL	2.1
1	K	55	SER	2.1
3	D	222	GLY	2.1
3	D	1300	SER	2.1
3	N	745	MET	2.1

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Mol	Chain	Res	Type	RSRZ
1	L	43	ILE	2.1
2	M	310	LEU	2.1
3	N	873	LEU	2.1
1	K	51	THR	2.1
2	M	1029	GLY	2.1
1	K	174	VAL	2.1
2	M	645	VAL	2.1
3	N	699	VAL	2.1
5	P	84	TYR	2.1
3	N	190	GLU	2.1
4	O	59	ASN	2.1
1	L	25	LEU	2.1
5	P	163	LEU	2.1
2	M	802	ARG	2.1
3	D	1119	SER	2.1
1	L	142	VAL	2.1
2	C	712	ALA	2.1
3	N	705	ALA	2.1
4	O	52	GLU	2.1
2	C	128	ILE	2.1
3	D	871	LYS	2.1
1	A	85	LEU	2.1
3	D	1299	PHE	2.1
3	N	740	PHE	2.1
3	N	922	LEU	2.1
3	D	878	GLY	2.1
3	D	211	VAL	2.1
3	D	961	LYS	2.1
3	N	1397	LYS	2.1
3	N	1487	VAL	2.1
2	M	829	GLN	2.1
1	A	58	ILE	2.1
2	C	614	ARG	2.1
3	N	748	HIS	2.1
3	N	1384	PRO	2.1
3	D	984	THR	2.1
4	E	52	GLU	2.1
3	N	1456	LYS	2.1
2	M	588	VAL	2.1
3	N	636	GLN	2.1
2	C	319	GLY	2.1
2	C	669	GLY	2.1

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Mol	Chain	Res	Type	RSRZ
3	D	1030	GLY	2.1
3	N	401	TYR	2.1
5	P	374	GLY	2.1
2	M	830	LYS	2.1
3	D	1041	LEU	2.1
3	N	590	PRO	2.1
4	O	9	LEU	2.1
2	C	1030	GLN	2.0
2	M	460	ARG	2.0
2	C	530	GLU	2.0
2	C	1087	VAL	2.0
2	M	608	GLY	2.0
3	D	748	HIS	2.0
1	B	44	LEU	2.0
2	C	859	PRO	2.0
2	M	107	LEU	2.0
2	M	695	LEU	2.0
2	C	29	ALA	2.0
3	D	1502	ALA	2.0
1	B	21	GLY	2.0
3	D	992	ILE	2.0
1	K	82	LEU	2.0
2	C	458	TYR	2.0
2	C	620	LEU	2.0
3	D	999	THR	2.0
3	D	1433	SER	2.0
5	F	403	LYS	2.0
2	C	850	ALA	2.0
3	N	1077	ALA	2.0
2	M	270	GLY	2.0
3	D	396	VAL	2.0
3	N	866	VAL	2.0
3	N	915	VAL	2.0
5	F	330	GLY	2.0
2	C	365	ASP	2.0
2	C	926	PHE	2.0
2	M	149	THR	2.0
3	N	1293	PHE	2.0
1	L	139	ASN	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, 95<sup>th</sup> 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( $\text{\AA}^2$ )	Q<0.9
8	TGT	N	9002	26/26	0.81	0.61	0.79	41,47,51,52	0
8	TGT	D	9001	26/26	0.81	0.44	0.32	44,47,50,52	0
6	MG	N	9006	1/1	0.99	0.04	-0.93	4,4,4,4	0
6	MG	C	9004	1/1	0.97	0.06	-1.11	17,17,17,17	0
7	ZN	N	9059	1/1	0.99	0.06	-1.71	42,42,42,42	0
7	ZN	D	9112	1/1	0.99	0.05	-2.12	50,50,50,50	0
7	ZN	N	9113	1/1	0.99	0.10	-2.36	41,41,41,41	0
7	ZN	D	9058	1/1	1.00	0.17	-4.47	56,56,56,56	0
6	MG	D	9003	1/1	0.98	0.06	-	17,17,17,17	0
6	MG	N	9005	1/1	0.98	0.03	-	13,13,13,13	0

## 6.5 Other polymers [i](#)

There are no such residues in this entry.