



# Full wwPDB X-ray Structure Validation Report ⓘ

Feb 1, 2016 – 12:14 AM GMT

PDB ID : 1ZYR  
Title : Structure of Thermus thermophilus RNA polymerase holoenzyme in complex with the antibiotic streptolydigin  
Authors : Tuske, S.; Sarafianos, S.G.; Wang, X.; Hudson, B.; Sineva, E.; Mukhopadhyay, J.; Birktoft, J.J.; Leroy, O.; Ismail, S.; Clark, A.D.; Dharia, C.; Napoli, A.; Laptenko, O.; Lee, J.; Borukhov, S.; Ebright, R.H.; Arnold, E.  
Deposited on : 2005-06-10  
Resolution : 3.00 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

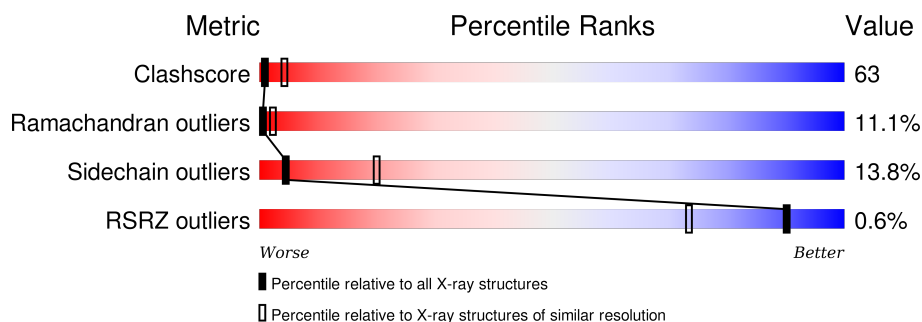
# 1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

*X-RAY DIFFRACTION*

The reported resolution of this entry is 3.00 Å.

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



Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
Clashscore	102246	1912 (3.00-3.00)
Ramachandran outliers	100387	1853 (3.00-3.00)
Sidechain outliers	100360	1856 (3.00-3.00)
RSRZ outliers	91569	1592 (3.00-3.00)

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	
1	B	315	
1	K	315	
1	L	315	
2	C	1119	
2	M	1119	
3	D	1524	

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Mol	Chain	Length	Quality of chain
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
7	ZN	N	9003	-	-	-	X

## 2 Entry composition [i](#)

There are 8 unique types of molecules in this entry. The entry contains 54048 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 subunit beta' chain.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
3	D	1392	Total	C	N	O	S	0	0	0
			10975	6953	1941	2048	33			
3	N	1392	Total	C	N	O	S	0	0	0
			10975	6953	1941	2048	33			

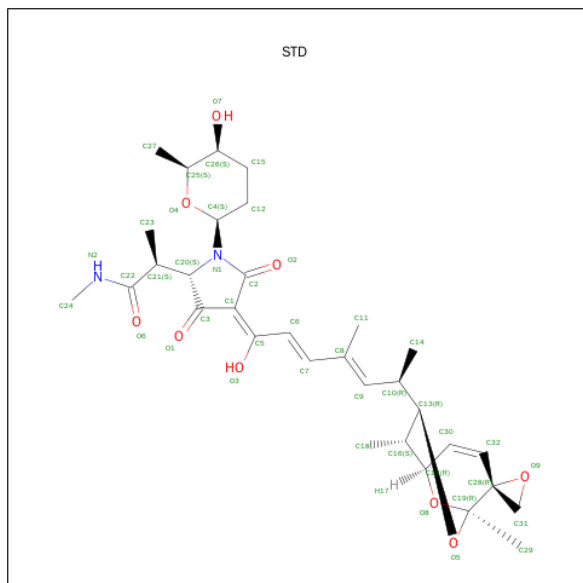
- Molecule 4 is a protein called DNA-directed RNA polymerase omega chain.

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 DNA-directed RNA polymerase sigma chain.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
5	F	345	Total	C	N	O	S	0	0	0
			2793	1762	504	523	4			
5	P	345	Total	C	N	O	S	0	0	0
			2793	1762	504	523	4			

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



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

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

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

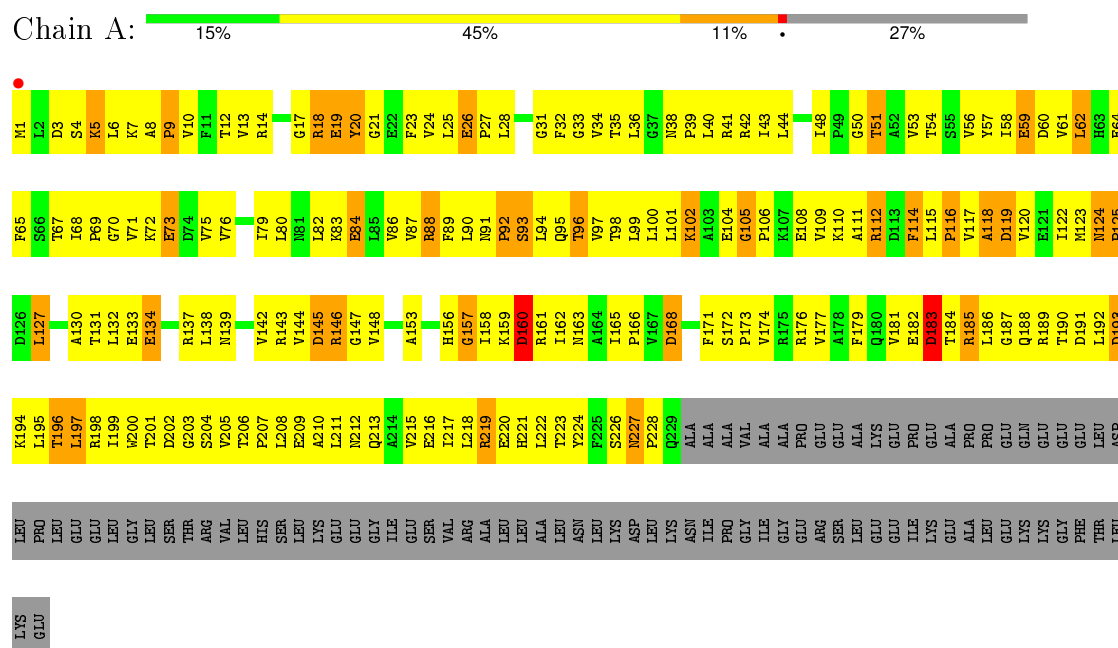
- Molecule 8 is MAGNESIUM ION (three-letter code: MG) (formula: Mg).

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

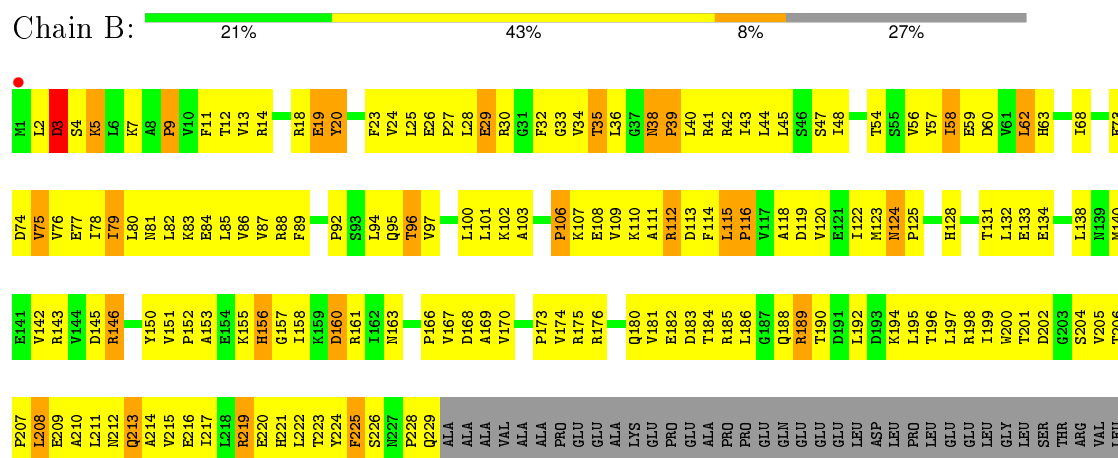
### 3 Residue-property plots

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

#### • Molecule 1: DNA-directed RNA polymerase alpha chain



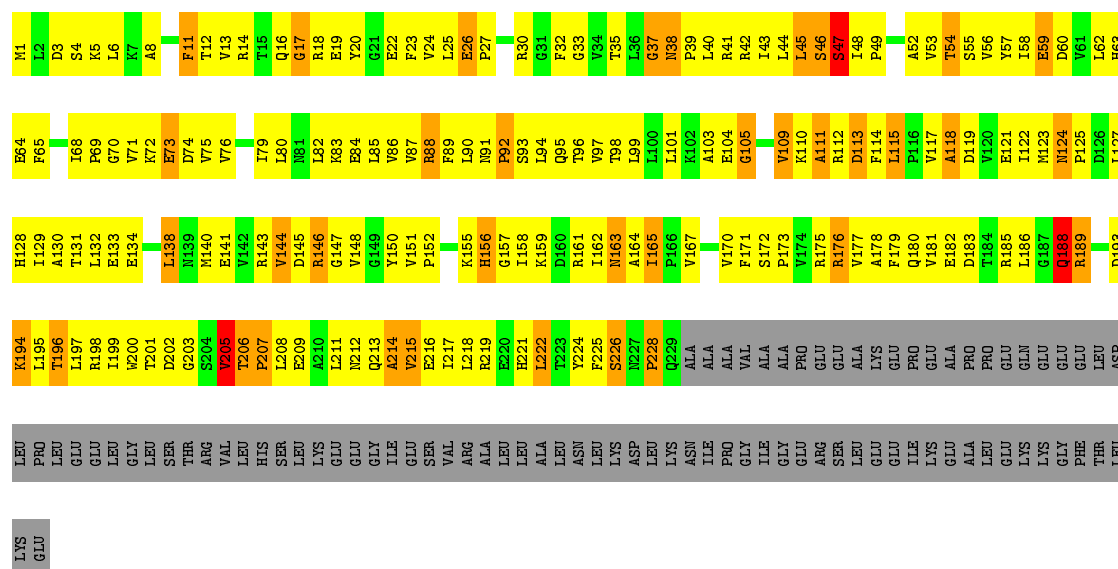
#### • Molecule 1: DNA-directed RNA polymerase alpha chain



HIS  
SER  
LEU  
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ARG  
ALA  
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LEU  
ALA  
ASN  
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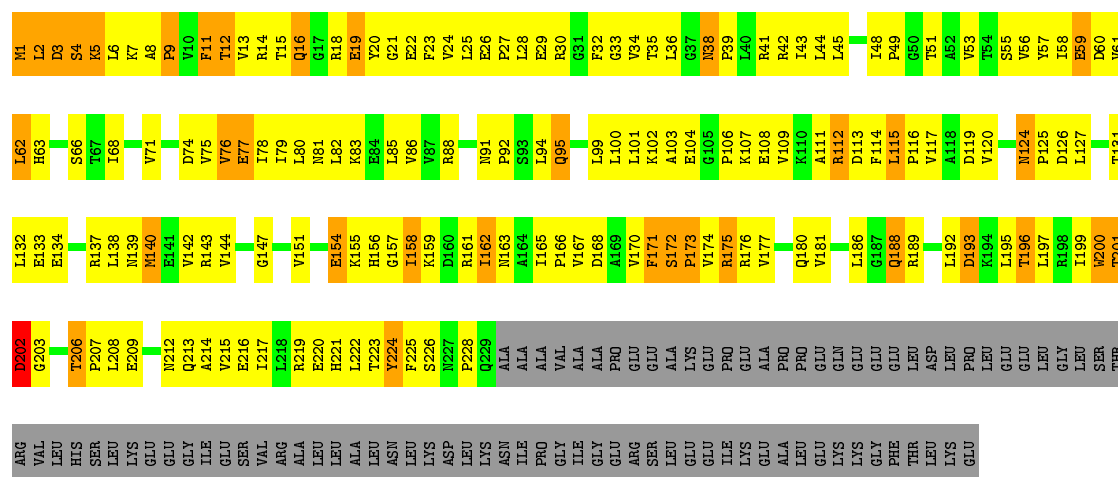
• Molecule 1: DNA-directed RNA polymerase alpha chain

Chain K: 16% 44% 11% 27%



• Molecule 1: DNA-directed RNA polymerase alpha chain

Chain L: 21% 41% 11% 27%



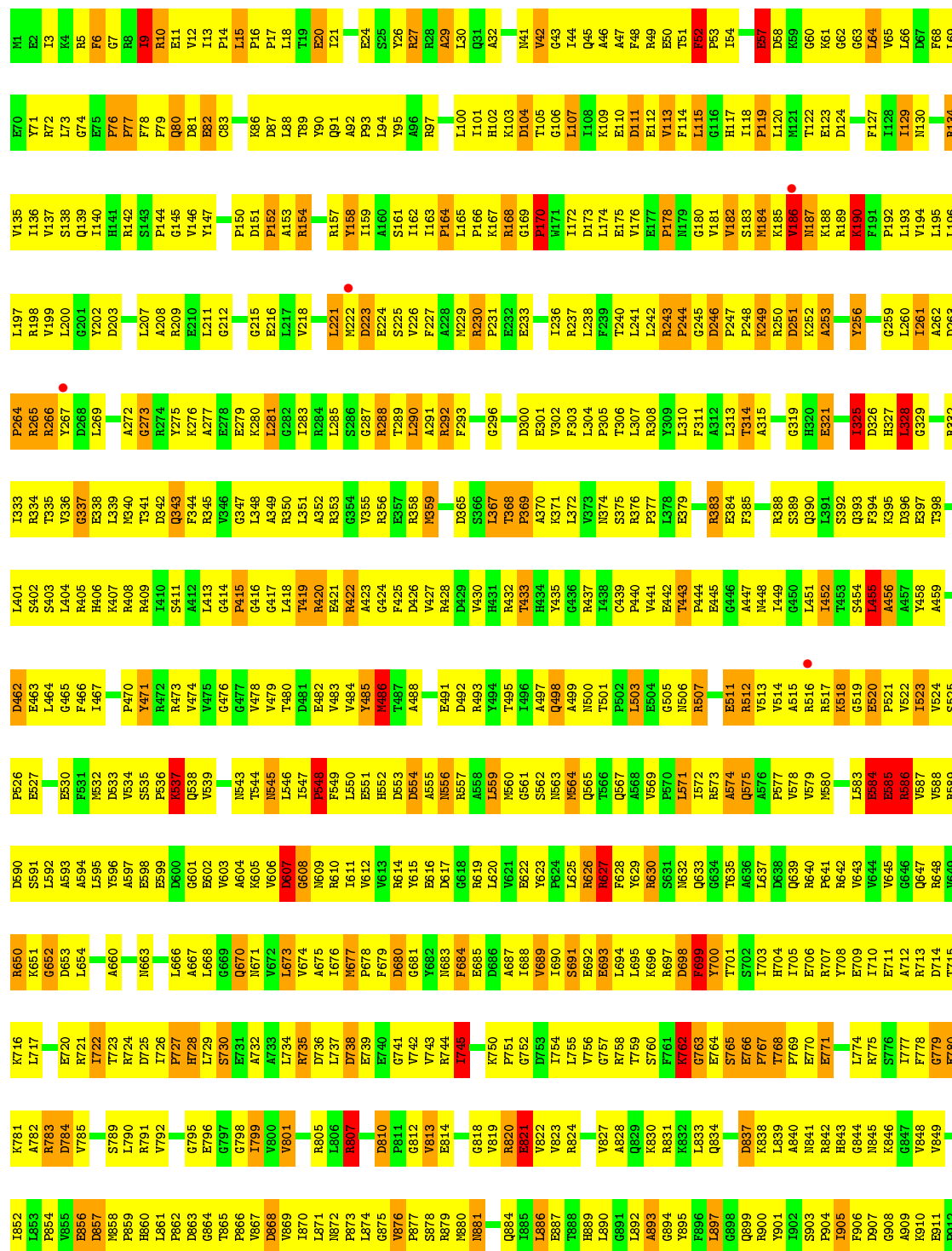


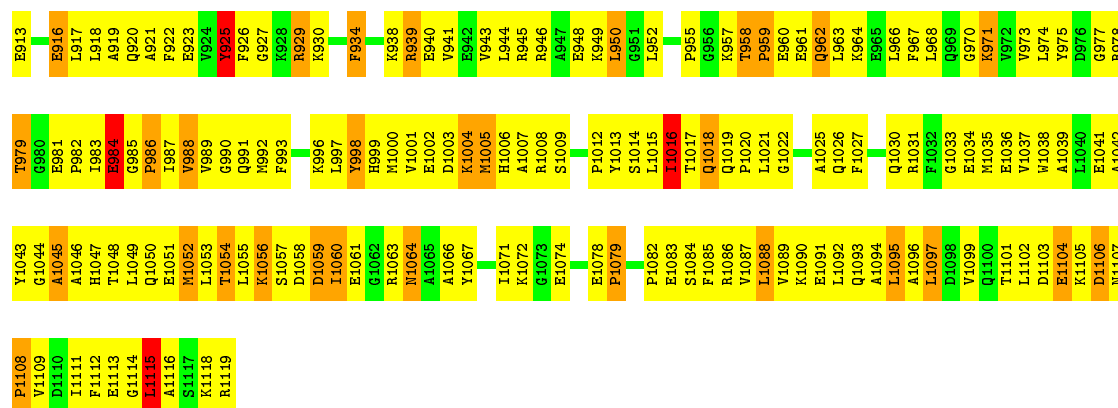
H1047	G980	L917	V855	E720	G658	L595	V529	D462	T398	R330	D263	L196	V135	L69
T1048	E981	L918	E856	R721	P659	L596	E530	E463	S403	R331	P264	L197	I136	E70
L1049	P982	A919	D857	I722	A660	A397	F531	L464	S403	R332	R265	L198	V137	Y71
Q1050	L983	Q920	H858	T723	S661	E598	V534	G465	L404	R333	R266	V199	S138	R72
E1051	E984	A921	P859	R724	E662	E599	V535	F466	R405	R334	Y267	G201	Q139	L73
M1052	K985	F922	H860	R725	N663	D600	S534	L467	H406	R335	G268	G202	I140	G74
L1053	L986	E923	L861	I726	G664	G601	P536	R468	K407	V336	Y270	Y202	E75	E75
T1054	P987	G924	P862	P727	P665	E602	K537	T469	R408	R337	E271	D203	R142	P76
L1055	V988	Y925	D863	R728	L666	V603	G538	P470	R409	E338	A272	Q204	S143	P77
K1056	G989	F926	G864	L729	A667	A604	V539	Y471	A412	T341	G273	Q205	S143	P77
S1057	G990	G927	T865	S730	L668	K605	F540	R472	G414	Q343	E276	T206	G145	F78
D1058	F983	K928	P866	L734	G669	V606	S541	R473	G414	Q344	E277	L207	P146	Q80
L1059	G996	R929	V867	R735	N670	D607	V542	Y474	P415	R345	E278	Q208	Y147	D81
G1062	L997	G931	D868	R736	N672	G608	N543	Y475	G416	R346	E279	R209	F148	E82
R1063	L997	G931	D868	R736	N672	G608	N543	Y475	G416	R346	E279	E210	T149	C83
A1064	M1000	F934	L871	D738	V674	L611	N545	Y478	L418	L348	G281	G220	D151	L88
A1065	L872	G935	N873	A741	A675	L546	I547	T480	T419	A349	G282	G220	P152	T89
A1066	P873	V936	P873	V742	I676	V613	P548	D481	R420	R350	L283	L221	A153	Y90
Y1067	L874	D937	L874	V743	N677	V614	F549	E482	E421	L351	R284	M222	R154	Q91
I1070	G875	R939	G875	R744	P678	V615	E551	Y483	R422	R352	L285	D223	P155	A92
L1071	P877	E940	P877	R744	F679	E616	H552	Y485	A423	R353	E224	G224	G156	P93
K1072	S878	V941	S878	A747	D680	D617	H553	Y486	G424	G354	R288	S225	R157	L94
G1073	E814	E942	E814	A748	G681	G618	D553	T487	F425	V355	T289	V226	Y158	Y95
E1074	R879	E943	R879	E748	Y682	D554	D554	Y488	D426	R356	L290	F227	I159	A96
D1075	H880	V943	H880	V749	N683	L620	A555	A488	Y427	E357	A291	A228	A160	R97
V1076	N881	L944	N881	R750	F684	V621	N556	T489	R428	R358	R292	M229	T163	L100
P1077	L882	R945	L882	P751	E685	E622	N556	E490	D429	M359	F293	R230	I163	I101
P1078	G883	G946	G883	T754	D686	L625	M560	E491	H430	S363	G296	P231	P164	H102
P1079	L884	A947	L884	T755	V688	R626	G561	D492	R431	E364	E297	E232	L165	E103
S1080	L885	E948	L885	V756	N689	R627	S562	Y494	T433	R367	F298	L235	P166	K103
L1081	E897	R949	E897	V757	I690	F628	S563	T495	H434	L367	K299	L236	K167	D104
V1082	T888	G951	T888	G757	S691	V629	M564	Y496	Y435	T368	D300	R237	G169	T105
E1083	H889	L952	H889	T759	E692	R630	R630	A497	G436	P369	E301	L241	P170	G106
S1084	L890	V953	L890	S760	E693	S631	Q567	Q498	R437	R372	V302	L242	E171	L107
F1085	G891	K330	G891	F761	L694	N632	A568	T501	L438	L372	F303	T240	L172	K108
R1086	L892	R831	L892	K762	L695	Q633	V569	E501	C439	V373	L304	T240	D173	E110
V1087	A893	K332	A893	E766	R696	A636	P570	P502	P440	N374	P305	L241	L174	D111
L1088	G894	L833	G894	P767	D698	L637	L571	L503	V441	S375	E175	L242	E175	E112
V1089	Y895	Q834	Y895	T768	F699	D638	I572	R507	E442	R377	V176	R243	F177	V113
K1090	F896	V835	F896	T769	Y700	Q639	Q575	I508	T443	P377	Y308	P244	E177	F114
E1091	L897	G836	L897	E770	T701	R640	A576	I508	E444	L378	P178	G245	P178	L115
L1092	R900	D837	R900	E771	R704	P641	P577	V513	G446	E379	A312	D246	M179	G116
Q1093	T901	L839	T901	R772	I705	R642	V578	V514	A447	A381	L313	P247	G180	H117
A1094	L902	A840	L902	L773	T705	V643	V579	A515	N448	R382	T314	P248	V182	I118
L1095	S903	N841	S903	L774	E706	V644	M580	R516	I449	R383	A315	K249	K249	M121
L1097	P904	R842	P904	R775	R707	V645	R580	R517	G450	E384	G316	R250	S183	T122
D1098	I905	H843	I905	S776	Y708	G646	L583	K518	L451	F385	V317	D251	K184	E123
V1099	P906	G844	P906	I777	E709	Q647	E584	G519	I452	F386	P318	K252	K185	D124
Q1100	N907	N845	N907	E780	I710	Q647	E584	G519	I452	F386	G320	A253	V186	D124
T1101	K910	K846	K910	R781	R650	R650	E585	E520	T453	S389	H320	V254	M187	F127
L1102	V973	V849	V973	A782	R651	R651	R586	P521	S454	Q390	E321	A255	K188	I128
D1103	L974	A850	L974	R783	G652	V522	V588	V523	L455	L391	V322	Y257	R189	I129
E1104	P912	E850	P912	R784	T715	D653	R589	V524	A457	S392	G259	Y258	K190	N130
K1105	E915	K851	E915	D784	K716	L654	D590	S525	Y458	R396	D326	G259	F191	G131
D1106	L914	L852	L914	R785	L717	L655	S591	S526	A459	R396	H327	L260	L193	A132
N1107	R978	K766	R978	K766	P718	A656	L592	E527	R460	D396	L328	L261	L194	D133
P1108	E916	D787	E916	P719	P719	D657	L592	E528	V461	E397	G329	A262	L195	R134



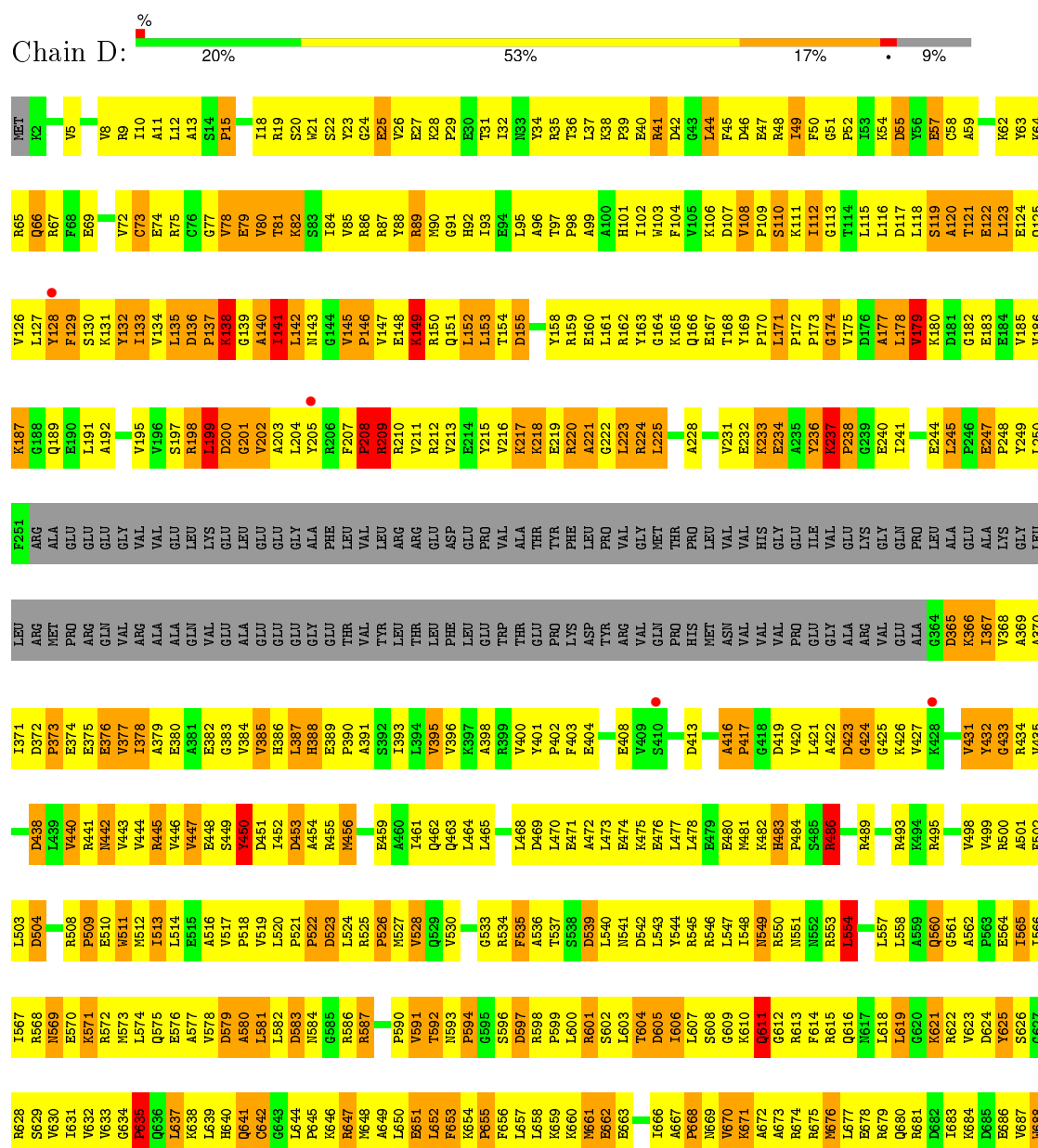
• Molecule 2: DNA-directed RNA polymerase beta chain

Chain M: 25% 59% 14%



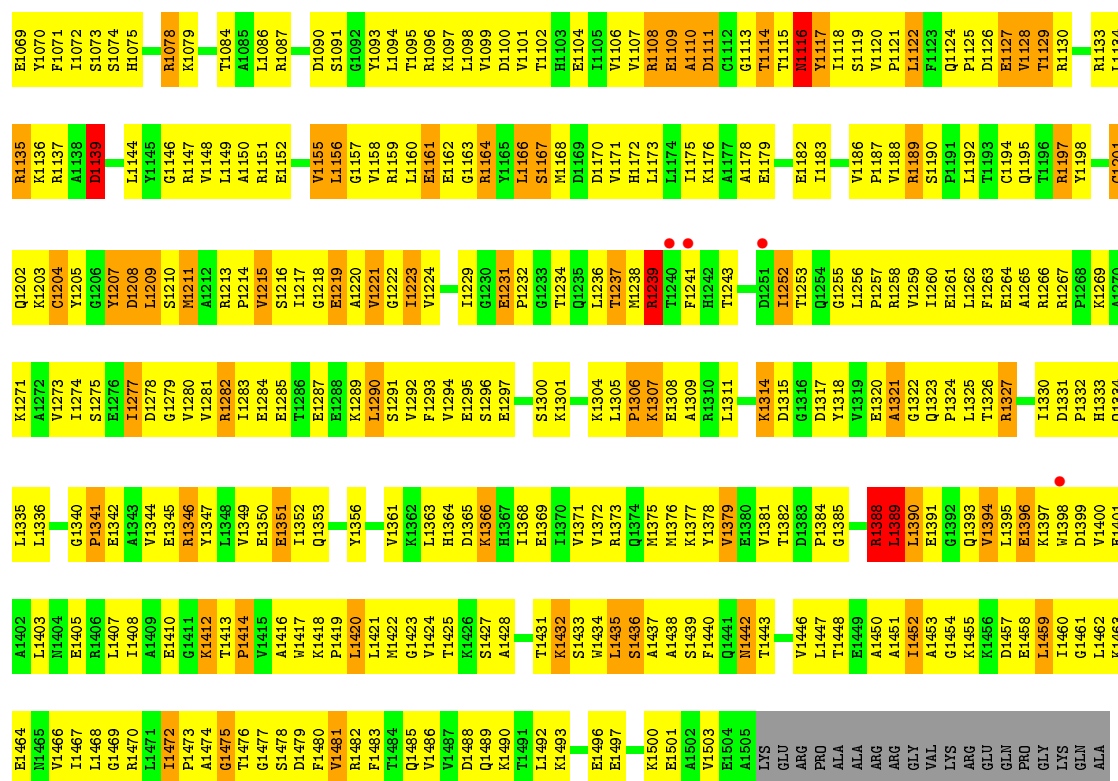


● Molecule 3: DNA-directed RNA polymerase subunit beta' chain

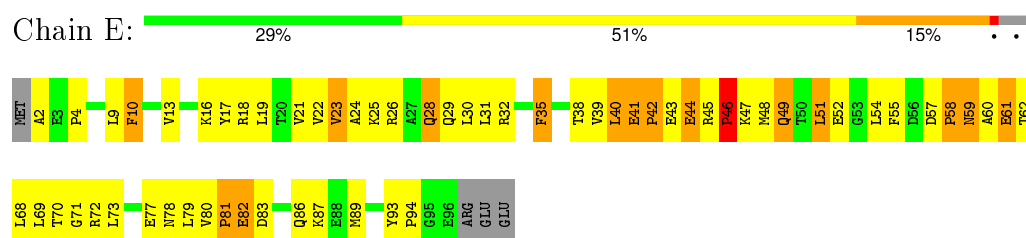




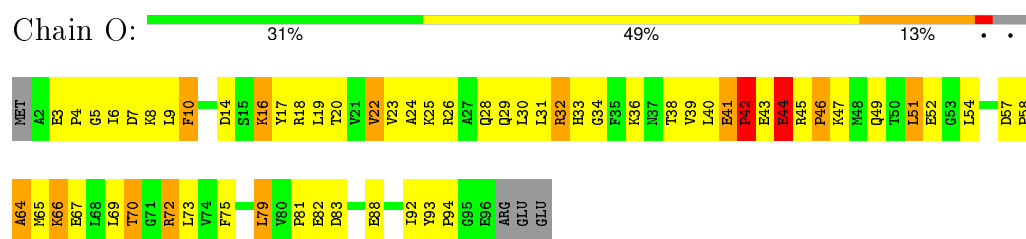
V1007	I934	L973	A812	P750	D685	G625	A559	L496	E436	D372	ARG	Q189	E124	K64
F1008	K935	E874	L813	L751	E686	S625	Q560	E497	V437	F373	ALA	E190	Q125	R65
K1009	Y936	T875	A814	S752	V687	G627	A561	V498	D438	E374	GLU	A191	Q126	Q66
N1010	Y937	S876	A815	S753	W688	G628	A562	V499	L439	E375	ARG	A192	L127	R67
F1011	G938	P877	H816	F754	D689	S629	E563	R500	V440	E376	GLN	P193	F128	F68
F1012	G939	G878	E817	A755	E690	W630	E564	A501	R441	V377	GLY	F129	F129	E69
E1012	T940	R879	R818	O756	L691	L631	I565	F502	W442	I378	VAL	V195	S130	G70
Y1015	S942	L880	E820	A757	E692	V632	I566	L503	V443		VAL	V196	K131	K71
P1016	T943	L881	E821	E758	E693	V633	I567	L504	V444		ALA	S197	Y132	V72
F1017	T944	A883	A822	A759	E694	G634	R568	S505	R445		GLN	C73	I133	C73
N1018	S945	R884	A823	R760	I695	P635	R569	G506	V446		VAL	L139	V134	E74
P1019	G946	L885	L824	I761	Q636	Q637	E570	N507	W447		GLY	L135	L135	R75
L1020	T947	V886	A825	O762	V699	L637	K571		E448		ALA	V202	D136	C76
Y1021	T948	A887	P826	M763	V700	K638	R572	E510	S449		GLY	A203	P137	G77
Y1022	T949	E888	P827	L764	L701	L639	M573	M511	Y450		GLY	L204	K138	V78
M1023	G950	E889	L828	S765	L702	H640	L574	M512	Y451		GLY	Y205	G139	E79
	I951	A890	K828	A766	R703	Q641	Q575	L513	I452		GLY	R206	A140	V80
		V890	W829	H767	R704	G642	E576	L514	D453		PHE	F207	I141	T81
		E891	A830	N768	A705	G643	A577	E515	A454		LEU	P208	L142	K82
		D892	G831	L769	P706	L644	V578	A516	S449		VAL	R209	N143	S83
		E893	R832	L770	L707	P645	D579	M517	Y450		LEU	R210		I84
		K894	E833	S771	L708	H646	L582	P518	Y451		ARG	V211	P146	V85
		V895	T834	P772	H709	R647	R587	L524	G457		ARG	R212	V147	R86
		A896	S835	A773	R710	N648	D583	L520	A458		GLY	V213	A140	R87
		R897	W836	S774	L711	N649	N584	P521	E459		LEU	E214	I149	Y88
		E898	G837	G775	G712	L650	G585	P522	I461		ASP	R214	R150	R89
		L899	R838	E776	L713	E651	R586	D523	Q463		PRO	V216	Q151	M90
		I900	L839	P777	Q714	L652	R587	L524	Q463		VAL	R217	L152	G91
		Q901	K840	L778	A715	F653	P590	R525	L464		ALA	K218	L153	H92
		L902	H841	A779	F716	R654	V591	P526	L465		THR	E219	T154	I93
		D903	R842	K780	Q717	P655	T592	N527	K466		TYR	R220	D155	E94
		V904	F843	F781	P718	P656	T593	V528	E467		PHE	A221	E156	L95
		P905	A844	S782	L719	L657	N593	Q529	L468		LEU	G222	E157	A96
		R906	N845	R783	L720	L658	R594	V530	L469		PRO	R224	Y158	T97
		E907	P846	D784	F721	K659	S596		L470		ARG	R225	R159	P98
		K908	E847	I785	E722	G660	I597	E533	E471		VAL	L226		A99
			E848	L786	G723	N661	R598	R534	A472		GLN	P226	R162	A100
			A849	L787	Q724	E662	P599	F535	L473		THR	L227	Y183	H101
			E850	G788		E663	R600	A536	E474		PRO			I102
			L851	L789	Q727	K664	L600	T537	K475		LEU	W230	Q166	W103
			A852	Y790	L728	G665	R601	S538	E476		VAL	V231	E167	F104
			V853	Y791	H729	G666	S602	D539	L477		VAL	E232	T168	V105
			A854	I792	P730	A667	L603	L540	L478		HIS	K233	Y169	K106
			H855	I793	L731	P668	T604		E479		VAL	E234	P170	D107
			G856	Q794	V732	N669	D605	L543	E480		GLY		L171	V108
			L857	V795		V670	L606	Y544	M481		ILE	K237	P172	P109
			V858	R796	F736	K671	L607	R545	K482		VAL	P238	P173	S110
			D859	K797	N737	G672	S608	R546	H483		ALA	G239	G174	K111
			L860	E798	A738	A673	G609	L547	P484		LYS	E240	V175	I112
			Q861	K799	D739	R674		T548	S485		VAL	I241	D176	G113
			D862	K800	F740	R675	R613	N549	A486		GLN	L242	A177	T114
			V863		D741	G676		R550	A487		PRO	A243	L178	L115
			E864	L804	G742	L677	N617	N551	K488		ALA	E244	V179	L116
			E865	F805	D743	E678	L618	N552	R489		LEU	L245		D117
			R867	R806	Q744	R679	L619	R553	K490		GLU	P246	E183	L118
			Y868	A807	K745	G680	G620	L554	K491		ALA	E247	E184	S119
			N869	T808	A746	R681	K621	K555	A492		LYS	P248	V185	A120
			G870	P809	V747	R682	R622	K556	G493		GLY	Y249	V186	T121
			K871	E810	H748	L683	V623	L557	K494		LEU	K120	K187	E122
			R872	E811	V749	K684	D624	L558	A495		LEU	F251	G188	L123



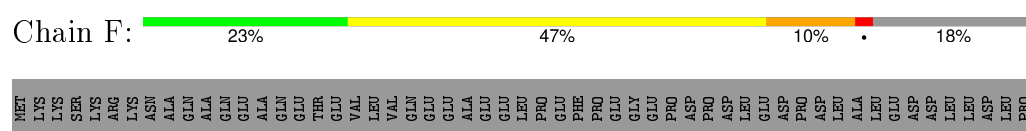
### • Molecule 4: DNA-directed RNA polymerase omega chain

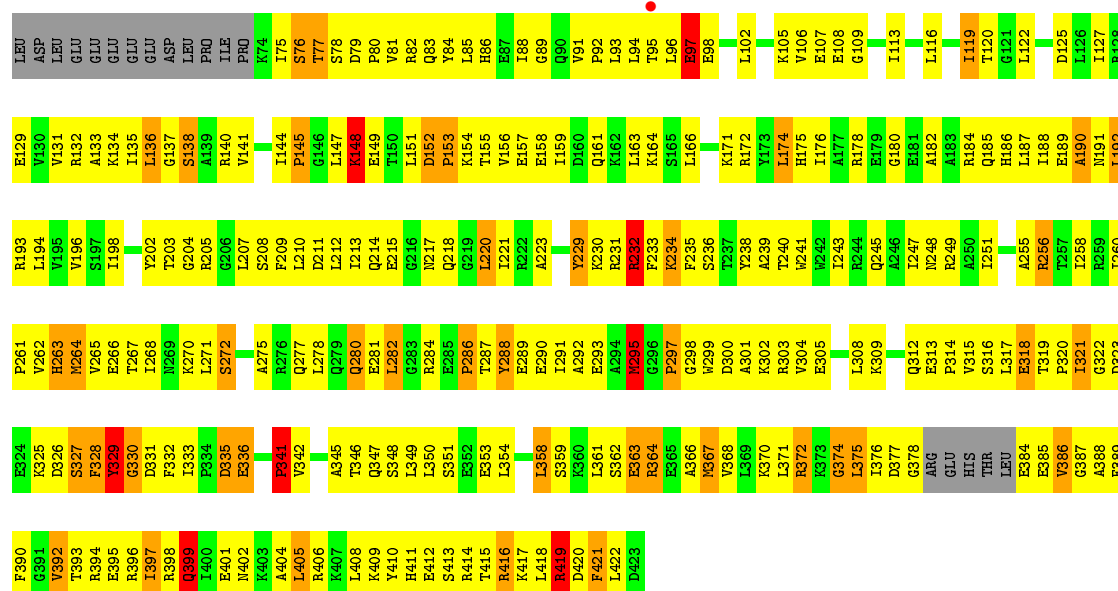


### • Molecule 4: DNA-directed RNA polymerase omega chain

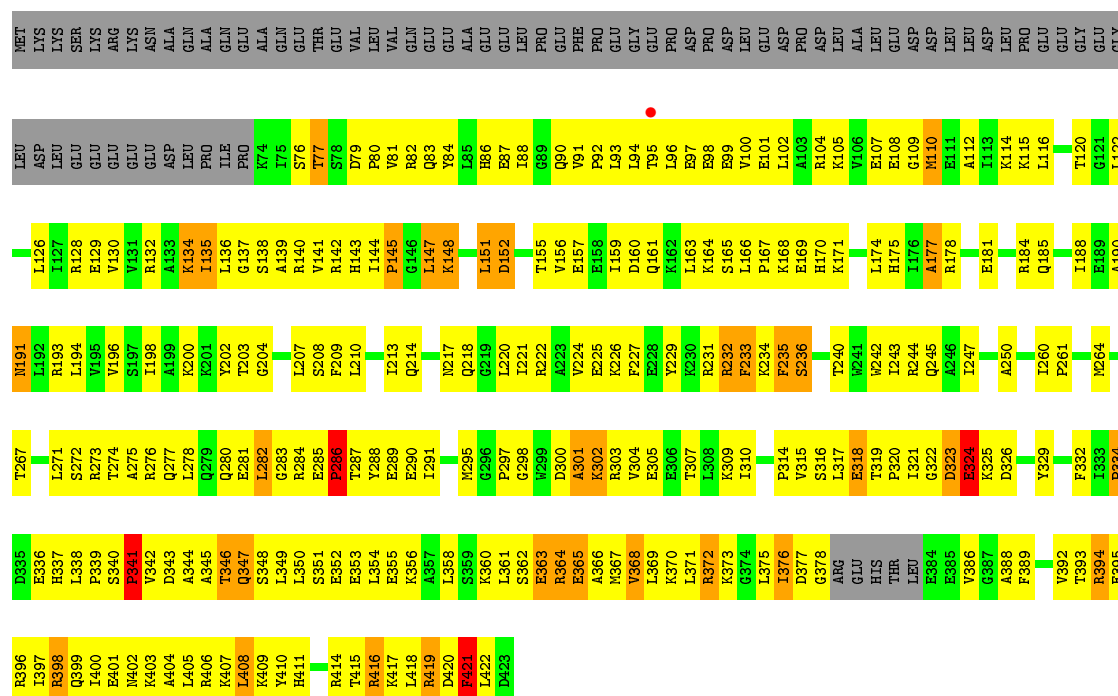
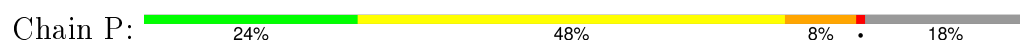


### • Molecule 5: DNA-directed RNA polymerase sigma chain





• Molecule 5: DNA-directed RNA polymerase sigma chain



## 4 Data and refinement statistics

Property	Value	Source
Space group	P 32	Depositor
Cell constants a, b, c, $\alpha$ , $\beta$ , $\gamma$	237.00Å 237.00Å 250.00Å 90.00° 90.00° 120.00°	Depositor
Resolution (Å)	30.00 – 3.00 29.89 – 3.00	Depositor EDS
% Data completeness (in resolution range)	77.9 (30.00-3.00) 42.8 (29.89-3.00)	Depositor EDS
$R_{merge}$	0.12	Depositor
$R_{sym}$	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ <sup>1</sup>	1.72 (at 3.00Å)	Xtriage
Refinement program	CNS 1.1	Depositor
R, $R_{free}$	0.261 , 0.281 0.258 , (Not available)	Depositor DCC
$R_{free}$ test set	No test flags present.	DCC
Wilson B-factor (Å <sup>2</sup> )	67.5	Xtriage
Anisotropy	0.356	Xtriage
Bulk solvent $k_{sol}$ (e/Å <sup>3</sup> ), $B_{sol}$ (Å <sup>2</sup> )	(Not available) , (Not available)	EDS
Estimated twinning fraction	0.499 for -h,-k,l 0.499 for h,-h-k,-l 0.049 for -k,-h,-l	Xtriage
L-test for twinning <sup>2</sup>	$\langle  L  \rangle = 0.42$ , $\langle L^2 \rangle = 0.25$	Xtriage
Outliers	0 of 139357 reflections	Xtriage
$F_o, F_c$ correlation	0.91	EDS
Total number of atoms	54048	wwPDB-VP
Average B, all atoms (Å <sup>2</sup> )	71.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 6.83% 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: STD, ZN, MG

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	$\# Z  > 5$	RMSZ	$\# Z  > 5$
1	A	0.43	0/1838	0.76	0/2498
1	B	0.38	0/1838	0.64	0/2498
1	K	0.46	0/1838	0.75	0/2498
1	L	0.39	0/1838	0.66	0/2498
2	C	0.45	0/8997	0.76	5/12164 (0.0%)
2	M	0.44	0/8997	0.76	5/12164 (0.0%)
3	D	0.46	0/11165	0.78	13/15088 (0.1%)
3	N	0.45	0/11165	0.78	14/15088 (0.1%)
4	E	0.40	0/783	0.77	2/1054 (0.2%)
4	O	0.44	0/783	0.82	1/1054 (0.1%)
5	F	0.41	0/2836	0.70	1/3812 (0.0%)
5	P	0.41	0/2836	0.69	0/3812
All	All	0.44	0/54914	0.76	41/74228 (0.1%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
2	C	0	1
3	D	0	1
3	N	0	1
All	All	0	3

There are no bond length outliers.

All (41) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	D	81	THR	N-CA-C	-7.96	89.51	111.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	M	728	HIS	N-CA-C	7.59	131.49	111.00
4	O	49	GLN	N-CA-C	7.23	130.53	111.00
3	N	1209	LEU	N-CA-C	-7.22	91.50	111.00
3	D	1209	LEU	N-CA-C	-7.04	92.00	111.00
3	N	1420	LEU	CA-CB-CG	6.81	130.96	115.30
2	C	729	LEU	N-CA-C	6.39	128.24	111.00
3	N	1239	ARG	N-CA-C	6.36	128.16	111.00
2	C	319	GLY	N-CA-C	-6.35	97.22	113.10
2	C	728	HIS	N-CA-C	6.11	127.49	111.00
2	M	319	GLY	N-CA-C	-6.10	97.86	113.10
3	N	198	ARG	N-CA-C	6.07	127.38	111.00
4	E	49	GLN	N-CA-C	6.00	127.20	111.00
3	D	380	GLU	N-CA-C	-5.99	94.82	111.00
3	D	554	LEU	CA-CB-CG	5.97	129.03	115.30
2	C	591	SER	N-CA-C	-5.96	94.89	111.00
3	N	1127	GLU	N-CA-C	-5.95	94.93	111.00
3	D	1043	GLY	N-CA-C	5.92	127.91	113.10
3	N	1204	CYS	CA-CB-SG	5.76	124.37	114.00
3	D	1068	LEU	CA-CB-CG	-5.60	102.42	115.30
2	M	243	ARG	N-CA-C	5.58	126.07	111.00
3	D	1110	ALA	N-CA-C	-5.57	95.97	111.00
2	M	608	GLY	N-CA-C	-5.53	99.28	113.10
3	D	198	ARG	N-CA-C	5.46	125.74	111.00
3	N	804	LEU	CA-CB-CG	5.46	127.86	115.30
3	N	1128	VAL	N-CA-C	-5.45	96.28	111.00
3	D	208	PRO	N-CA-C	5.42	126.20	112.10
3	D	1239	ARG	N-CA-C	5.40	125.58	111.00
3	D	209	ARG	N-CA-C	5.33	125.39	111.00
5	F	358	LEU	CA-CB-CG	5.33	127.56	115.30
3	D	581	LEU	CA-CB-CG	5.30	127.49	115.30
3	N	1043	GLY	N-CA-C	5.28	126.31	113.10
4	E	51	LEU	N-CA-C	-5.25	96.84	111.00
3	D	723	GLY	N-CA-C	5.24	126.19	113.10
3	N	1110	ALA	N-CA-C	-5.23	96.89	111.00
3	N	81	THR	N-CA-C	-5.19	96.98	111.00
2	M	455	LEU	CA-CB-CG	5.18	127.22	115.30
3	N	1116	ASN	N-CA-C	-5.13	97.14	111.00
2	C	417	GLY	N-CA-C	-5.09	100.37	113.10
3	N	1064	GLY	N-CA-C	5.06	125.75	113.10
3	N	1389	LEU	N-CA-C	5.04	124.60	111.00

There are no chirality outliers.

All (3) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
2	C	258	TYR	Sidechain
3	D	132	TYR	Sidechain
3	N	625	TYR	Sidechain

## 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	279	0
1	B	1806	0	1861	211	0
1	K	1806	0	1861	232	0
1	L	1806	0	1861	210	0
2	C	8829	0	8933	1148	0
2	M	8829	0	8933	1178	0
3	D	10975	0	11213	1653	0
3	N	10975	0	11212	1616	0
4	E	769	0	775	99	0
4	O	769	0	775	87	0
5	F	2793	0	2873	320	0
5	P	2793	0	2873	362	0
6	D	43	0	44	10	0
6	M	43	0	44	8	0
7	D	2	0	0	0	0
7	N	2	0	0	0	0
8	D	1	0	0	0	0
8	N	1	0	0	0	0
All	All	54048	0	55119	6892	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 63.

All (6892) 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:C:673:LEU:HD23	2:C:867:VAL:HA	1.22	1.20

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:172:PRO:HB3	3:N:178:LEU:HD22	1.22	1.16
3:D:141:ILE:H	3:D:141:ILE:HD12	1.11	1.16
2:C:857:ASP:HB2	2:C:978:ARG:HG2	1.29	1.15
3:D:1304:LYS:H	3:D:1304:LYS:HD3	1.03	1.15
5:P:120:THR:HG22	5:P:122:LEU:HD13	1.24	1.14
3:D:1062:ARG:HG3	3:D:1062:ARG:HH11	1.12	1.14
3:N:44:LEU:HB3	3:N:525:ARG:NH2	1.63	1.13
3:D:205:TYR:HB3	3:D:393:ILE:HD13	1.31	1.11
3:D:1262:LEU:HD23	3:D:1352:ILE:HG13	1.17	1.11
5:F:161:GLN:HA	5:F:164:LYS:HE2	1.28	1.11
2:C:263:ASP:HB2	2:C:264:PRO:HD3	1.27	1.11
2:C:460:ARG:HD3	2:C:485:TYR:HE2	1.14	1.11
2:C:1016:ILE:HD13	2:C:1016:ILE:H	1.09	1.11
3:D:108:VAL:HB	3:D:109:PRO:HD3	1.27	1.11
3:D:44:LEU:HB3	3:D:525:ARG:HH21	1.08	1.11
3:N:809:PRO:HB2	3:N:812:ALA:HB2	1.32	1.10
3:D:1223:ILE:HD12	3:D:1223:ILE:H	1.07	1.10
3:D:186:VAL:HG13	3:D:187:LYS:H	1.17	1.09
4:O:54:LEU:HG	4:O:58:PRO:HG2	1.31	1.09
2:M:432:ARG:HH22	3:N:1047:LYS:HD3	1.16	1.09
3:N:1109:GLU:HG2	3:N:1202:GLN:H	1.07	1.09
3:D:584:ASN:HD21	3:D:590:PRO:HD2	1.03	1.09
1:A:42:ARG:HH12	2:C:857:ASP:HB3	1.16	1.08
3:D:1277:ILE:HG22	3:D:1278:ASP:H	1.19	1.08
3:N:1147:ARG:HB3	3:N:1188:VAL:HG21	1.28	1.08
3:N:187:LYS:HE2	3:N:213:VAL:HG12	1.30	1.08
1:A:197:LEU:HD23	1:A:197:LEU:H	1.12	1.07
3:D:197:SER:HB3	3:D:203:ALA:HB3	1.31	1.07
2:C:537:LYS:HA	2:C:545:ASN:HD21	1.16	1.07
3:D:95:LEU:HD11	3:D:517:VAL:HG23	1.35	1.07
3:D:493:ARG:HH21	3:D:1389:LEU:HD21	1.18	1.07
3:N:785:ILE:HD12	3:N:785:ILE:H	1.19	1.07
2:M:139:GLN:HE22	2:M:415:PRO:HD3	1.17	1.07
3:N:692:GLU:HG2	3:N:720:LEU:HD12	1.32	1.07
2:M:183:SER:HB2	2:M:190:LYS:HG2	1.32	1.07
2:M:1016:ILE:HD13	2:M:1016:ILE:H	1.19	1.06
3:D:1433:SER:HB2	3:D:1457:ASP:OD2	1.54	1.06
3:D:907:GLU:HG2	3:D:908:LYS:H	1.00	1.06
3:N:148:GLU:HB3	3:N:151:GLN:HB2	1.32	1.06
2:C:987:ILE:HG23	3:D:948:THR:HG21	1.37	1.06
3:D:145:VAL:HG22	3:D:146:PRO:HD2	1.29	1.06

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1258:ARG:HH21	3:N:1351:GLU:HG2	1.15	1.06
3:D:584:ASN:ND2	3:D:590:PRO:HD2	1.70	1.06
2:M:691:SER:HB2	2:M:858:MET:SD	1.94	1.06
3:N:715:ALA:HB3	3:N:764:LEU:HA	1.33	1.05
5:P:361:LEU:HD21	5:P:408:LEU:HB2	1.38	1.04
2:C:602:GLU:HG2	2:C:603:VAL:H	1.20	1.04
2:C:906:PHE:CD1	3:D:1067:VAL:HG22	1.92	1.04
3:D:387:LEU:HD13	5:F:97:GLU:HB2	1.37	1.04
2:M:650:ARG:H	2:M:650:ARG:HD3	1.14	1.03
3:D:425:GLY:O	3:D:427:VAL:HG23	1.58	1.03
5:F:392:VAL:HG11	5:F:396:ARG:HD3	1.38	1.03
2:M:325:ILE:HD12	2:M:325:ILE:H	1.18	1.03
3:N:119:SER:H	3:N:123:LEU:HD12	1.24	1.02
3:D:116:LEU:HB3	3:D:118:LEU:HD13	1.40	1.02
3:D:543:LEU:HD22	3:D:580:ALA:HB1	1.41	1.02
2:C:889:HIS:HE1	3:D:951:ILE:H	1.06	1.02
1:A:43:ILE:HD11	1:B:35:THR:HG21	1.40	1.02
3:D:119:SER:HB2	3:D:123:LEU:N	1.73	1.02
2:M:86:LYS:HG3	2:M:813:VAL:HG12	1.37	1.02
3:N:136:ASP:HB3	3:N:137:PRO:HD3	1.40	1.02
2:C:902:ILE:HG22	2:C:904:PRO:HD3	1.38	1.02
2:C:34:VAL:HB	2:C:38:LYS:HG3	1.41	1.02
3:D:1201:CYS:SG	3:D:1204:CYS:HB2	2.01	1.01
3:N:984:THR:HG22	3:N:987:GLU:HB2	1.41	1.01
2:C:516:ARG:CZ	3:D:1068:LEU:HD22	1.89	1.01
2:C:265:ARG:HG3	2:C:288:ARG:HG3	1.43	1.00
3:N:654:LYS:HB3	3:N:655:PRO:HD3	1.43	1.00
3:D:131:LYS:HG3	3:D:568:ARG:HG2	1.43	1.00
4:E:23:VAL:HG21	4:E:65:MET:HG2	1.42	1.00
1:B:86:VAL:N	1:B:124:ASN:HD22	1.60	1.00
2:C:966:LEU:HD21	2:C:986:PRO:HG2	1.43	1.00
1:A:35:THR:HG21	1:B:43:ILE:HD11	1.44	0.99
3:D:654:LYS:HB3	3:D:655:PRO:HD3	1.43	0.99
3:N:368:VAL:HG22	3:N:369:ALA:H	1.26	0.99
2:M:512:ARG:HG2	2:M:523:ILE:HD11	1.41	0.99
3:D:1129:THR:HG23	3:D:1130:ARG:H	1.25	0.99
1:K:86:VAL:HG12	1:K:124:ASN:ND2	1.78	0.99
3:N:133:ILE:HG21	3:N:454:ALA:HB1	1.44	0.99
2:M:172:ILE:HD12	2:M:172:ILE:H	1.27	0.99
3:N:1213:ARG:HB2	3:N:1214:PRO:HD2	1.43	0.99
3:D:969:ARG:HB3	3:D:969:ARG:HH11	1.22	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:206:THR:HB	1:A:209:GLU:HG3	1.43	0.99
3:N:423:ASP:HB2	5:P:178:ARG:HB2	1.44	0.99
4:E:54:LEU:HA	4:E:58:PRO:HG2	1.41	0.99
1:B:206:THR:HB	1:B:209:GLU:HG3	1.43	0.99
3:D:1273:VAL:HG22	3:D:1326:THR:OG1	1.62	0.99
2:M:693:GLU:HA	2:M:696:LYS:HD2	1.44	0.98
2:C:413:LEU:HD12	2:C:413:LEU:H	1.25	0.98
2:C:1054:THR:HG22	2:C:1059:ASP:HB2	1.41	0.98
1:K:150:TYR:HE2	1:K:152:PRO:HG3	1.26	0.98
3:N:781:PRO:HB2	3:N:911:LEU:HD23	1.46	0.98
3:N:1065:LEU:HD23	3:N:1070:TYR:HD2	1.29	0.98
5:P:129:GLU:HB3	5:P:142:ARG:HH22	1.29	0.98
3:N:621:LYS:O	3:N:622:ARG:HG3	1.62	0.98
3:N:1277:ILE:HG22	3:N:1278:ASP:H	1.24	0.98
2:M:470:PRO:HB2	2:M:534:VAL:HG21	1.44	0.97
5:P:406:ARG:HA	5:P:409:LYS:HG2	1.46	0.97
2:C:480:THR:HG22	2:C:482:GLU:H	1.27	0.97
2:C:658:GLY:H	2:C:661:SER:HB2	1.27	0.97
2:M:1097:LEU:HD23	3:N:10:ILE:HD13	1.46	0.97
2:C:368:THR:HB	2:C:369:PRO:HD3	1.47	0.97
2:M:1031:ARG:HH11	3:N:619:LEU:HD22	1.29	0.97
2:C:474:VAL:HG11	2:C:529:VAL:HG12	1.44	0.97
3:D:1432:LYS:HD2	3:D:1433:SER:H	1.30	0.97
2:M:352:ALA:HA	2:M:355:VAL:HG12	1.44	0.97
2:C:183:SER:HB3	2:C:190:LYS:HD3	1.47	0.97
5:F:386:VAL:HG13	5:F:387:GLY:H	1.27	0.97
3:D:162:ARG:HG3	3:D:163:TYR:H	1.30	0.97
3:D:907:GLU:HG2	3:D:908:LYS:N	1.79	0.96
5:F:88:ILE:HD13	5:F:193:ARG:HB2	1.46	0.96
3:N:387:LEU:HD12	5:P:96:LEU:HB2	1.45	0.96
3:N:1189:ARG:HH21	3:N:1203:LYS:HB2	1.30	0.96
2:C:627:ARG:HG3	2:C:628:PHE:H	1.31	0.96
1:B:5:LYS:HA	1:B:5:LYS:HE3	1.44	0.96
3:D:378:ILE:H	3:D:378:ILE:HD13	1.28	0.96
2:M:629:TYR:HB2	2:M:637:LEU:HD11	1.44	0.95
1:A:62:LEU:HD12	1:A:62:LEU:H	1.31	0.95
3:N:736:PHE:HD1	3:N:736:PHE:H	1.11	0.95
5:P:88:ILE:HD13	5:P:193:ARG:HB2	1.47	0.95
2:C:443:THR:HG21	2:C:450:GLY:H	1.30	0.95
3:D:136:ASP:HB3	3:D:137:PRO:CD	1.96	0.95
2:C:460:ARG:HD3	2:C:485:TYR:CE2	2.01	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:705:ALA:HB3	3:N:706:PRO:HD3	1.44	0.95
3:D:477:LEU:HA	3:D:480:GLU:HB3	1.45	0.95
2:M:129:ILE:HG22	2:M:130:ASN:N	1.81	0.95
3:D:141:ILE:HD11	3:D:450:TYR:H	1.30	0.95
3:D:422:ALA:HB3	3:D:427:VAL:HG22	1.45	0.95
5:F:77:THR:O	5:F:81:VAL:HG23	1.66	0.95
5:F:350:LEU:HD12	5:F:422:LEU:HD12	1.47	0.95
2:M:265:ARG:HG3	2:M:288:ARG:HG3	1.49	0.94
5:F:79:ASP:HB3	5:F:80:PRO:HD3	1.47	0.94
3:D:528:VAL:HG23	3:D:536:ALA:HB3	1.48	0.94
3:D:908:LYS:HB2	3:D:1027:GLY:HA3	1.49	0.94
2:M:18:LEU:HA	2:M:408:ARG:NH2	1.82	0.94
5:F:393:THR:HG22	5:F:394:ARG:H	1.31	0.94
3:N:26:VAL:HG11	3:N:44:LEU:HD23	1.48	0.93
3:D:520:LEU:HD12	3:D:521:PRO:HD2	1.51	0.93
2:C:22:GLN:HE22	2:C:336:VAL:HG21	1.30	0.93
2:M:1060:ILE:HG13	2:M:1083:GLU:HG3	1.51	0.93
1:A:124:ASN:OD1	1:A:127:LEU:HB3	1.67	0.93
2:M:250:ARG:HB3	2:M:253:ALA:HB2	1.51	0.93
2:C:115:LEU:H	2:C:115:LEU:HD23	1.34	0.93
3:D:1101:VAL:HG22	3:D:1428:ALA:HB2	1.47	0.93
3:N:1393:GLN:HB2	3:N:1398:TRP:HE1	1.31	0.93
2:C:537:LYS:HA	2:C:545:ASN:ND2	1.84	0.93
3:N:441:ARG:HB3	3:N:443:VAL:HG23	1.51	0.93
3:D:1152:GLU:H	3:D:1162:GLU:HB2	1.30	0.92
3:D:400:VAL:HA	3:D:442:ASN:O	1.70	0.92
3:N:1109:GLU:HG2	3:N:1202:GLN:N	1.84	0.92
1:A:90:LEU:HD12	1:A:119:ASP:HA	1.51	0.92
2:M:415:PRO:HB2	2:M:418:LEU:HD23	1.50	0.92
1:A:91:ASN:OD1	1:A:92:PRO:HD2	1.69	0.92
3:N:141:ILE:HG22	3:N:142:LEU:H	1.34	0.92
3:N:385:VAL:HG22	5:P:232:ARG:HH12	1.35	0.92
2:M:30:LEU:HD12	2:M:30:LEU:O	1.69	0.92
3:D:234:GLU:HB3	3:D:240:GLU:HB2	1.52	0.92
2:M:1111:ILE:HG13	2:M:1112:PHE:HD1	1.35	0.92
2:M:889:HIS:HE1	3:N:951:ILE:H	1.18	0.92
5:F:136:LEU:HD12	5:F:137:GLY:H	1.34	0.92
3:D:1264:GLU:HG2	3:D:1266:ARG:CZ	1.98	0.92
1:A:18:ARG:HH12	1:A:88:ARG:NE	1.67	0.92
1:K:206:THR:HG22	1:K:209:GLU:H	1.32	0.92
3:N:1018:ASN:O	3:N:1022:VAL:HG23	1.68	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:668:PRO:HD2	3:N:672:ALA:HB1	1.51	0.92
3:D:565:ILE:HD12	3:D:565:ILE:H	1.35	0.92
2:C:575:GLN:H	2:C:667:ALA:HB1	1.33	0.92
2:C:689:VAL:HG12	2:C:851:LYS:HB3	1.52	0.92
5:P:386:VAL:HG22	5:P:394:ARG:HG2	1.51	0.92
3:D:218:LYS:HZ3	3:D:370:ALA:HA	1.33	0.92
1:B:152:PRO:HD2	1:B:155:LYS:HD2	1.51	0.91
2:C:21:ILE:HD12	2:C:21:ILE:H	1.33	0.91
2:M:129:ILE:HG22	2:M:130:ASN:H	1.33	0.91
3:D:119:SER:HB2	3:D:123:LEU:H	1.30	0.91
3:D:902:LEU:H	3:D:902:LEU:HD23	1.35	0.91
2:M:478:VAL:HG13	2:M:506:ASN:HB3	1.48	0.91
3:D:1389:LEU:H	3:D:1389:LEU:HD23	1.36	0.91
1:K:86:VAL:H	1:K:124:ASN:HD22	1.16	0.91
3:D:877:PRO:O	3:D:880:ILE:HG22	1.71	0.91
3:N:809:PRO:HB2	3:N:812:ALA:CB	2.01	0.91
3:D:570:GLU:HB2	5:F:214:GLN:NE2	1.84	0.91
3:D:1262:LEU:HD23	3:D:1352:ILE:CG1	2.02	0.90
2:C:889:HIS:CE1	3:D:951:ILE:H	1.88	0.90
2:M:737:LEU:HD22	2:M:741:GLY:O	1.69	0.90
2:M:77:PRO:HD3	2:M:93:PRO:HD3	1.53	0.90
3:D:907:GLU:CG	3:D:908:LYS:H	1.85	0.90
3:N:1084:THR:HG22	3:N:1087:ARG:NH2	1.86	0.90
2:C:524:VAL:HG22	2:C:525:SER:H	1.36	0.90
5:F:271:LEU:HD22	5:F:291:ILE:HD11	1.54	0.90
5:F:361:LEU:HD11	5:F:408:LEU:HD12	1.50	0.90
3:D:1381:VAL:HB	3:D:1389:LEU:O	1.71	0.90
2:M:1052:MET:HE3	3:N:623:VAL:HG21	1.53	0.90
2:C:289:THR:HG22	2:C:290:LEU:HD23	1.51	0.90
3:N:792:ILE:HD11	3:N:881:LEU:HD23	1.53	0.90
1:A:201:THR:HG22	1:A:203:GLY:H	1.35	0.90
3:D:1280:VAL:HG12	3:D:1281:VAL:H	1.34	0.90
2:M:176:VAL:HG12	2:M:182:VAL:HG13	1.51	0.90
3:D:175:VAL:HG13	3:D:217:LYS:HG2	1.51	0.90
3:N:179:VAL:HG11	3:N:217:LYS:HZ1	1.37	0.90
3:N:644:LEU:HD12	3:N:645:PRO:HD2	1.54	0.90
2:C:110:GLU:HG2	2:C:369:PRO:HG3	1.54	0.90
2:M:987:ILE:HG23	3:N:948:THR:HG21	1.53	0.90
3:N:139:GLY:O	3:N:147:VAL:HG22	1.71	0.90
2:M:157:ARG:HD2	2:M:314:THR:HG22	1.52	0.90
1:B:151:VAL:H	1:B:169:ALA:HB3	1.34	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:133:GLU:OE2	2:C:605:LYS:HE2	1.72	0.89
1:B:86:VAL:H	1:B:124:ASN:ND2	1.70	0.89
2:C:690:ILE:HB	2:C:852:ILE:HD13	1.54	0.89
3:N:1258:ARG:CZ	3:N:1262:LEU:HD11	2.03	0.89
3:D:62:LYS:HD2	3:D:63:TYR:CE1	2.08	0.89
4:E:54:LEU:HA	4:E:58:PRO:CG	2.03	0.89
3:N:119:SER:HB2	3:N:123:LEU:H	1.36	0.89
3:N:1114:THR:HG22	3:N:1116:ASN:ND2	1.87	0.89
2:M:516:ARG:NE	3:N:1068:LEU:HD13	1.88	0.89
5:F:321:ILE:HD13	5:F:322:GLY:N	1.88	0.89
1:B:86:VAL:HG12	1:B:124:ASN:ND2	1.88	0.89
1:K:175:ARG:HE	1:K:202:ASP:HA	1.38	0.89
2:M:89:THR:HA	2:M:129:ILE:O	1.73	0.89
2:M:368:THR:HB	2:M:369:PRO:HD3	1.55	0.89
2:M:1000:MET:HE3	2:M:1001:VAL:HG13	1.55	0.89
3:N:675:ARG:O	3:N:678:GLU:HG2	1.73	0.88
1:B:23:PHE:HE1	1:B:208:LEU:HD22	1.37	0.88
1:A:27:PRO:HG2	1:A:186:LEU:HD22	1.54	0.88
3:D:1220:ALA:HB1	3:D:1223:ILE:HD13	1.52	0.88
3:N:1389:LEU:H	3:N:1389:LEU:HD23	1.35	0.88
3:D:1086:LEU:HA	6:D:1525:STD:H32	1.55	0.88
2:C:874:LEU:HD12	3:D:784:ASP:OD2	1.73	0.88
2:M:290:LEU:HD23	2:M:290:LEU:H	1.38	0.88
3:D:1231:GLU:HB3	3:D:1232:PRO:HD3	1.54	0.88
5:P:94:LEU:HD12	5:P:97:GLU:H	1.38	0.88
2:C:1071:ILE:HD11	3:D:655:PRO:HB3	1.56	0.88
3:D:44:LEU:HB3	3:D:525:ARG:NH2	1.87	0.88
2:C:516:ARG:NH2	3:D:1068:LEU:HB3	1.89	0.88
2:M:926:PHE:HE2	2:M:960:GLU:HG3	1.38	0.88
2:M:146:VAL:HG12	2:M:162:ILE:HA	1.53	0.88
2:M:279:GLU:HG3	2:M:280:LYS:HG3	1.54	0.88
3:D:1223:ILE:CD1	3:D:1223:ILE:H	1.85	0.88
3:N:591:VAL:HA	3:N:600:LEU:HD21	1.56	0.88
2:M:15:LEU:H	2:M:15:LEU:HD12	1.36	0.88
1:B:23:PHE:CE1	1:B:208:LEU:HD22	2.09	0.87
2:M:1031:ARG:NH1	3:N:619:LEU:HD22	1.89	0.87
3:N:1197:ARG:CD	3:N:1396:GLU:HB2	2.05	0.87
3:N:141:ILE:H	3:N:141:ILE:HD12	1.38	0.87
1:L:154:GLU:OE1	3:N:840:LYS:HG3	1.73	0.87
3:N:1101:VAL:HG11	3:N:1424:VAL:HG23	1.55	0.87
2:C:516:ARG:NE	3:D:1068:LEU:HD13	1.90	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1078:ARG:HH11	3:N:1078:ARG:HB3	1.39	0.87
2:M:139:GLN:HE22	2:M:415:PRO:CD	1.86	0.87
3:N:422:ALA:HB3	3:N:427:VAL:HG22	1.56	0.87
5:P:129:GLU:HB3	5:P:142:ARG:NH2	1.88	0.87
3:N:187:LYS:CE	3:N:213:VAL:HG12	2.05	0.87
3:N:794:GLN:NE2	3:N:795:VAL:H	1.73	0.87
3:N:18:ILE:HG23	3:N:518:PRO:HG3	1.57	0.87
2:C:1096:ALA:HB2	3:D:514:LEU:HD21	1.57	0.87
2:M:775:ARG:HB3	2:M:780:GLU:HA	1.56	0.87
5:F:151:LEU:HB2	5:F:155:THR:H	1.39	0.87
3:D:127:LEU:HD22	3:D:134:VAL:HG21	1.57	0.86
3:N:60:CYS:SG	3:N:61:GLY:N	2.48	0.86
3:D:1379:VAL:HG11	3:D:1395:LEU:HD23	1.57	0.86
1:A:123:MET:C	1:A:125:PRO:HD3	1.96	0.86
3:N:984:THR:CG2	3:N:987:GLU:HB2	2.04	0.86
3:D:221:ALA:HB3	3:D:367:ILE:HB	1.56	0.86
2:M:266:ARG:O	2:M:272:ALA:HB3	1.73	0.86
5:P:135:ILE:HD11	5:P:178:ARG:HB3	1.57	0.86
2:C:292:ARG:HH11	2:C:299:LYS:HD3	1.40	0.86
2:M:145:GLY:HA3	2:M:276:LYS:HD2	1.56	0.86
3:D:1304:LYS:N	3:D:1304:LYS:HD3	1.86	0.86
3:D:212:ARG:HD2	3:D:445:ARG:HH22	1.38	0.86
2:M:188:LYS:HD3	2:M:189:ARG:N	1.90	0.86
2:C:568:ALA:HB3	2:C:668:LEU:HD22	1.58	0.86
2:C:1021:LEU:HD22	5:F:331:ASP:O	1.76	0.86
2:M:1009:SER:HB2	3:N:651:GLU:OE1	1.75	0.86
3:D:1326:THR:HG22	3:D:1327:ARG:H	1.37	0.86
1:B:103:ALA:HB1	1:B:107:LYS:HD3	1.58	0.86
2:M:605:LYS:HB2	2:M:610:ARG:HH12	1.41	0.86
3:D:798:GLU:HG2	3:D:799:LYS:H	1.40	0.86
1:K:91:ASN:OD1	1:K:92:PRO:HD2	1.76	0.86
4:E:54:LEU:HG	4:E:58:PRO:HG2	1.57	0.85
3:N:799:LYS:HD2	3:N:799:LYS:O	1.74	0.85
2:M:266:ARG:H	2:M:266:ARG:HD2	1.41	0.85
3:D:945:SER:OG	3:D:947:ILE:HG23	1.76	0.85
3:D:659:LYS:HE3	3:D:663:GLU:OE1	1.77	0.85
2:C:1095:LEU:O	2:C:1097:LEU:N	2.08	0.85
3:D:1062:ARG:HG3	3:D:1062:ARG:NH1	1.90	0.85
3:N:44:LEU:HB3	3:N:525:ARG:HH22	1.36	0.85
2:C:516:ARG:NH1	3:D:1068:LEU:HD22	1.90	0.85
3:N:550:ARG:NH1	3:N:577:ALA:HB2	1.91	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:266:ARG:HG2	2:M:273:GLY:HA3	1.58	0.85
5:F:280:GLN:OE1	5:F:281:GLU:HB2	1.75	0.85
4:O:54:LEU:HG	4:O:58:PRO:CG	2.06	0.85
3:D:703:ASN:O	3:D:745:MET:HG3	1.74	0.85
1:A:42:ARG:NH1	2:C:857:ASP:HB3	1.90	0.85
5:F:154:LYS:O	5:F:158:GLU:HG3	1.76	0.85
3:D:705:ALA:CB	3:D:706:PRO:HD3	2.06	0.85
3:N:245:LEU:HD22	3:N:246:PRO:HD2	1.58	0.85
3:N:187:LYS:HE2	3:N:213:VAL:H	1.41	0.85
3:N:179:VAL:HG11	3:N:217:LYS:NZ	1.91	0.85
3:N:423:ASP:HB2	5:P:178:ARG:CB	2.07	0.84
5:P:358:LEU:HD21	5:P:370:LYS:NZ	1.92	0.84
3:N:1120:VAL:HA	3:N:1346:ARG:NH2	1.91	0.84
3:N:1271:LYS:HZ2	3:N:1273:VAL:HA	1.42	0.84
3:D:1045:MET:HG3	3:D:1073:SER:HA	1.58	0.84
3:N:732:VAL:HB	3:N:736:PHE:HE1	1.42	0.84
1:K:99:LEU:HB3	1:K:114:PHE:HD2	1.42	0.84
3:D:1382:THR:O	3:D:1384:PRO:HD3	1.77	0.84
3:N:210:ARG:HD2	3:N:398:ALA:HB3	1.58	0.84
2:C:1047:HIS:NE2	3:D:1471:LEU:HD21	1.92	0.84
2:M:139:GLN:NE2	2:M:414:GLY:HA3	1.92	0.84
3:N:1271:LYS:NZ	3:N:1273:VAL:HA	1.92	0.84
5:F:416:ARG:NH2	5:F:419:ARG:HD3	1.92	0.84
3:D:1481:VAL:HG11	4:E:18:ARG:HA	1.59	0.84
2:M:554:ASP:OD2	2:M:556:ASN:HB2	1.76	0.84
1:L:108:GLU:HG2	1:L:131:THR:HG22	1.56	0.84
3:D:1314:LYS:NZ	3:D:1317:ASP:HB2	1.92	0.84
5:P:367:MET:HA	5:P:370:LYS:HD3	1.60	0.84
2:M:194:VAL:HA	2:M:197:LEU:HD12	1.60	0.84
3:D:191:LEU:HD12	3:D:211:VAL:HG21	1.60	0.84
2:M:288:ARG:HA	2:M:288:ARG:HE	1.42	0.84
2:C:1115:LEU:HB3	3:D:85:VAL:HG12	1.57	0.84
3:N:1161:GLU:OE2	3:N:1164:ARG:HD2	1.78	0.84
3:N:1440:PHE:HB3	3:N:1442:ASN:OD1	1.78	0.84
5:F:151:LEU:HD13	5:F:154:LYS:HB3	1.59	0.84
3:N:550:ARG:HH12	3:N:577:ALA:HB2	1.40	0.84
5:P:94:LEU:HG	5:P:97:GLU:HB2	1.59	0.84
2:M:941:VAL:HA	2:M:944:LEU:HD12	1.60	0.84
2:C:1115:LEU:H	2:C:1115:LEU:HD12	1.42	0.83
3:D:1223:ILE:HD12	3:D:1223:ILE:N	1.92	0.83
4:O:54:LEU:CG	4:O:58:PRO:HG2	2.08	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:141:VAL:O	5:F:145:PRO:HG2	1.78	0.83
4:E:9:LEU:HB3	4:E:19:LEU:HD21	1.60	0.83
2:M:376:ARG:HB3	2:M:377:PRO:HD3	1.57	0.83
2:C:439:CYS:HB2	2:C:541:SER:HB3	1.61	0.83
2:C:49:ARG:NH1	2:C:49:ARG:HB2	1.93	0.83
3:D:1130:ARG:NH2	3:D:1132:LEU:HG	1.92	0.83
2:M:886:LEU:HD12	3:N:951:ILE:HG13	1.58	0.83
2:M:516:ARG:HH11	2:M:521:PRO:HB3	1.43	0.83
3:N:908:LYS:HB3	3:N:1027:GLY:HA3	1.58	0.83
3:N:1047:LYS:HD2	3:N:1051:GLU:HG3	1.58	0.83
3:D:609:GLY:HA2	3:D:613:ARG:HB3	1.58	0.83
2:C:762:LYS:HA	2:C:786:LYS:HD2	1.57	0.83
2:C:857:ASP:HB2	2:C:978:ARG:CG	2.08	0.83
3:D:984:THR:HG22	3:D:987:GLU:CG	2.08	0.83
3:D:715:ALA:O	3:D:764:LEU:HD12	1.79	0.83
3:D:675:ARG:O	3:D:678:GLU:HG2	1.78	0.83
2:C:395:LYS:HE3	2:C:407:LYS:HZ2	1.42	0.83
3:D:98:PRO:HG2	3:D:462:GLN:HE22	1.41	0.83
3:N:1283:ILE:HG22	3:N:1284:GLU:H	1.42	0.83
3:D:996:TRP:CE2	3:D:1056:PRO:HG2	2.13	0.83
3:N:60:CYS:SG	3:N:62:LYS:N	2.51	0.83
2:C:919:ALA:HB2	2:C:968:LEU:HD21	1.59	0.83
1:K:27:PRO:HG2	1:K:186:LEU:HD22	1.61	0.83
3:N:895:VAL:HG13	3:N:921:ARG:NH1	1.93	0.83
3:N:564:GLU:HG2	3:N:565:ILE:HD12	1.60	0.83
5:F:94:LEU:CD1	5:F:96:LEU:H	1.92	0.83
3:N:704:ARG:HG3	3:N:736:PHE:HB2	1.60	0.83
3:N:948:THR:O	3:N:949:ILE:HG13	1.79	0.83
4:O:40:LEU:HD21	4:O:67:GLU:HG2	1.61	0.83
5:F:158:GLU:HA	5:F:161:GLN:NE2	1.94	0.82
5:P:134:LYS:O	5:P:135:ILE:HG12	1.78	0.82
3:D:1310:ARG:HG3	3:D:1327:ARG:HB3	1.58	0.82
3:D:1152:GLU:N	3:D:1162:GLU:HB2	1.92	0.82
2:C:1101:THR:O	2:C:1102:LEU:HD12	1.77	0.82
5:P:214:GLN:HA	5:P:217:ASN:HD22	1.43	0.82
3:N:1393:GLN:HB2	3:N:1398:TRP:NE1	1.93	0.82
1:K:228:PRO:HG3	1:L:11:PHE:HE2	1.42	0.82
3:D:969:ARG:HB3	3:D:969:ARG:NH1	1.95	0.82
2:M:497:ALA:O	2:M:532:MET:HG3	1.79	0.82
2:M:516:ARG:NH1	3:N:1068:LEU:HD22	1.94	0.82
1:A:50:GLY:HA3	1:A:171:PHE:O	1.79	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:44:ILE:HG23	2:M:344:PHE:HE1	1.42	0.82
2:M:1014:SER:HB3	2:M:1017:THR:O	1.78	0.82
2:C:1096:ALA:CB	3:D:514:LEU:HD21	2.10	0.82
1:A:206:THR:HG22	1:A:209:GLU:H	1.44	0.82
5:F:416:ARG:HH22	5:F:419:ARG:HD3	1.44	0.82
3:D:1107:VAL:HG12	3:D:1217:ILE:HA	1.59	0.82
2:C:263:ASP:HB2	2:C:264:PRO:CD	2.08	0.82
3:N:1116:ASN:H	3:N:1116:ASN:HD22	1.27	0.82
2:C:950:LEU:HB3	2:C:952:LEU:HD23	1.62	0.82
5:P:399:GLN:O	5:P:403:LYS:HB2	1.79	0.82
2:M:260:LEU:HB2	2:M:291:ALA:HB1	1.60	0.82
3:N:1342:GLU:CD	3:N:1342:GLU:H	1.81	0.82
3:D:374:GLU:HG2	3:D:386:HIS:HA	1.59	0.82
5:P:316:SER:OG	5:P:318:GLU:HG3	1.79	0.82
3:N:1176:LYS:O	3:N:1179:GLU:HB2	1.79	0.82
2:C:896:PHE:CD2	2:C:925:TYR:HB2	2.15	0.82
3:D:1476:THR:HG23	4:E:21:VAL:HG22	1.62	0.82
3:D:426:LYS:HB3	5:F:134:LYS:O	1.79	0.82
3:N:134:VAL:HG12	3:N:152:LEU:HB3	1.61	0.82
2:M:332:ARG:NH2	2:M:464:LEU:HD11	1.94	0.82
2:M:597:ALA:O	2:M:652:GLY:HA2	1.79	0.82
3:D:1342:GLU:H	3:D:1342:GLU:CD	1.83	0.82
3:N:639:LEU:HD23	3:N:639:LEU:O	1.79	0.82
3:N:806:PHE:CE1	3:N:813:LEU:HB3	2.15	0.82
1:K:201:THR:HG22	1:K:203:GLY:H	1.44	0.82
3:N:1120:VAL:HA	3:N:1346:ARG:HH22	1.44	0.82
1:B:153:ALA:HB1	1:B:166:PRO:HB2	1.60	0.82
5:F:205:ARG:HD2	5:F:251:ILE:HD13	1.62	0.82
1:B:40:LEU:O	1:B:44:LEU:HD12	1.78	0.81
3:D:1462:LEU:HD22	3:D:1472:ILE:HG23	1.61	0.81
1:K:79:ILE:HD12	1:K:167:VAL:HG12	1.61	0.81
3:D:989:TYR:CZ	3:D:993:LEU:HD11	2.15	0.81
4:E:54:LEU:HG	4:E:58:PRO:CG	2.09	0.81
1:L:132:LEU:HD21	1:L:138:LEU:HB2	1.60	0.81
3:N:875:THR:HG22	3:N:879:ARG:HG3	1.62	0.81
2:C:607:ASP:O	2:C:609:ASN:N	2.13	0.81
1:A:90:LEU:HG	1:A:119:ASP:O	1.80	0.81
2:M:838:LYS:HD3	2:M:846:LYS:HZ3	1.45	0.81
2:M:950:LEU:HD12	2:M:952:LEU:CD2	2.10	0.81
1:K:224:TYR:CD1	1:L:9:PRO:HD2	2.14	0.81
2:M:428:ARG:HH21	2:M:449:ILE:HG22	1.44	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:129:ILE:HG22	2:C:130:ASN:ND2	1.96	0.81
3:N:1116:ASN:H	3:N:1116:ASN:ND2	1.74	0.81
3:D:728:LEU:HD22	3:D:745:MET:CE	2.10	0.81
2:C:653:ASP:OD1	2:C:654:LEU:HD23	1.81	0.81
3:N:971:LEU:O	3:N:975:GLU:HG2	1.80	0.81
2:M:432:ARG:NH2	3:N:1047:LYS:HD3	1.96	0.81
2:C:950:LEU:HB3	2:C:952:LEU:CD2	2.10	0.81
3:D:159:ARG:HB2	3:D:159:ARG:NH1	1.94	0.81
3:D:1137:ARG:O	3:D:1141:GLU:HG3	1.81	0.81
2:C:349:ALA:O	2:C:353:ARG:HG3	1.80	0.81
5:F:133:ALA:HA	5:F:136:LEU:HD12	1.61	0.81
3:N:74:GLU:HB3	3:N:75:ARG:HH21	1.46	0.81
3:N:1428:ALA:O	3:N:1431:THR:HG23	1.81	0.81
1:A:102:LYS:HG3	1:A:139:ASN:HB2	1.63	0.81
5:F:209:PHE:CE2	5:F:213:ILE:HD11	2.16	0.81
2:M:760:SER:O	2:M:785:VAL:HG13	1.81	0.81
3:N:1147:ARG:HB3	3:N:1188:VAL:CG2	2.10	0.81
2:M:1047:HIS:O	2:M:1050:GLN:HB3	1.80	0.81
3:N:486:ARG:HH21	3:N:489:ARG:NE	1.78	0.81
5:F:207:LEU:HB2	5:F:212:LEU:HD21	1.63	0.81
5:F:287:THR:HG23	5:F:289:GLU:HB2	1.63	0.81
3:N:845:ASN:CB	3:N:848:GLU:HG3	2.11	0.81
3:D:642:CYS:HB3	3:D:716:PHE:HB2	1.61	0.81
3:N:646:LYS:HE2	3:N:722:GLU:OE2	1.82	0.80
3:N:984:THR:HG23	3:N:987:GLU:H	1.47	0.80
2:C:516:ARG:NH1	2:C:521:PRO:HB3	1.96	0.80
2:M:1097:LEU:H	2:M:1097:LEU:HD12	1.45	0.80
3:D:1107:VAL:CG1	3:D:1217:ILE:HA	2.10	0.80
2:C:604:ALA:HB3	2:C:612:VAL:HB	1.63	0.80
3:D:705:ALA:HB3	3:D:706:PRO:HD3	1.60	0.80
2:C:435:TYR:CE1	2:C:539:VAL:HG22	2.16	0.80
3:N:1262:LEU:HD21	3:N:1351:GLU:HB3	1.62	0.80
5:P:132:ARG:HH21	5:P:184:ARG:HH12	1.29	0.80
2:M:154:ARG:O	2:M:154:ARG:HD3	1.81	0.80
2:M:17:PRO:HB2	2:M:20:GLU:HB2	1.63	0.80
3:N:29:PRO:HG2	3:N:549:ASN:ND2	1.96	0.80
1:K:33:GLY:HA2	1:K:195:LEU:HB2	1.62	0.80
1:B:86:VAL:H	1:B:124:ASN:HD22	0.86	0.80
1:K:86:VAL:N	1:K:124:ASN:HD22	1.80	0.80
2:M:537:LYS:HA	2:M:905:ILE:HD11	1.63	0.80
3:N:845:ASN:HB2	3:N:848:GLU:HG3	1.64	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:770:LEU:HA	3:D:777:PRO:HA	1.64	0.80
2:C:263:ASP:CB	2:C:264:PRO:HD3	2.12	0.80
2:C:31:GLN:HE22	2:C:40:GLU:HB2	1.46	0.80
3:N:563:PRO:HG3	5:P:185:GLN:OE1	1.81	0.80
2:M:15:LEU:HB2	2:M:586:ARG:HH12	1.45	0.80
2:C:916:GLU:OE1	2:C:917:LEU:HD23	1.81	0.80
3:N:1320:GLU:H	3:N:1323:GLN:NE2	1.80	0.80
2:C:863:ASP:O	2:C:865:THR:N	2.14	0.80
3:D:616:GLN:HA	3:D:619:LEU:HB3	1.63	0.80
3:N:399:ARG:HB3	3:N:402:PRO:HG3	1.62	0.80
1:A:86:VAL:HG12	1:A:124:ASN:HD22	1.47	0.80
1:K:226:SER:O	1:K:228:PRO:HD3	1.80	0.80
2:M:876:VAL:HB	2:M:877:PRO:HD3	1.63	0.80
3:N:1065:LEU:HD23	3:N:1070:TYR:CD2	2.16	0.80
3:N:1462:LEU:HD22	3:N:1472:ILE:HD12	1.64	0.80
2:M:966:LEU:HD11	2:M:986:PRO:HG2	1.63	0.80
2:M:285:LEU:HD11	2:M:302:VAL:HG22	1.62	0.80
1:K:195:LEU:HD12	1:K:196:THR:H	1.45	0.80
2:M:650:ARG:N	2:M:650:ARG:HD3	1.96	0.79
4:E:43:GLU:O	4:E:45:ARG:HG2	1.83	0.79
3:D:1086:LEU:HD22	6:D:1525:STD:H113	1.62	0.79
2:M:650:ARG:H	2:M:650:ARG:CD	1.93	0.79
5:P:132:ARG:HH21	5:P:184:ARG:NH1	1.81	0.79
3:D:1151:ARG:HA	3:D:1162:GLU:HG3	1.61	0.79
3:N:249:TYR:C	3:N:250:LEU:HD12	2.02	0.79
3:N:465:LEU:HD12	3:N:513:ILE:HD11	1.62	0.79
1:L:111:ALA:HB2	1:L:127:LEU:HB3	1.62	0.79
1:B:19:GLU:HG3	1:B:201:THR:O	1.81	0.79
3:D:826:PRO:HD2	3:D:829:VAL:HG13	1.65	0.79
3:N:97:THR:HG21	3:N:571:LYS:HD3	1.65	0.79
2:C:1111:ILE:HG13	2:C:1112:PHE:H	1.46	0.79
3:N:162:ARG:HG3	3:N:434:ARG:NE	1.97	0.79
2:C:964:LYS:HG2	2:C:968:LEU:HD11	1.64	0.79
1:B:100:LEU:HD12	1:B:115:LEU:HD21	1.64	0.79
2:C:534:VAL:H	2:C:538:GLN:HE22	1.27	0.79
3:N:912:LYS:HB3	3:N:912:LYS:NZ	1.97	0.79
2:M:926:PHE:CE2	2:M:960:GLU:HG3	2.17	0.79
3:N:1124:GLN:HE21	3:N:1133:ARG:HD2	1.47	0.79
2:C:461:VAL:HG13	2:C:465:GLY:HA2	1.65	0.79
3:D:186:VAL:HG13	3:D:187:LYS:N	1.97	0.79
5:P:181:GLU:OE2	5:P:184:ARG:HD3	1.81	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:P:366:ALA:O	5:P:370:LYS:HB3	1.83	0.79
3:N:237:LYS:HB3	3:N:238:PRO:HD3	1.63	0.79
5:P:405:LEU:O	5:P:405:LEU:HD23	1.82	0.79
3:N:399:ARG:CB	3:N:402:PRO:HG3	2.13	0.79
2:M:580:MET:HB3	2:M:584:GLU:CD	2.03	0.79
1:K:195:LEU:HD12	1:K:196:THR:N	1.98	0.79
3:D:699:VAL:H	3:D:756:GLN:HE22	1.30	0.79
2:M:548:PRO:HG2	2:M:842:ARG:NH2	1.98	0.79
5:P:416:ARG:HG2	5:P:419:ARG:HG3	1.63	0.79
3:D:377:VAL:HG13	3:D:382:GLU:HG2	1.63	0.79
1:A:44:LEU:HD13	1:A:177:VAL:HG11	1.65	0.79
1:B:27:PRO:HG2	1:B:186:LEU:HD12	1.64	0.79
2:C:15:LEU:HD22	2:C:583:LEU:HD21	1.65	0.79
2:C:589:ARG:HD3	2:C:596:TYR:CZ	2.18	0.79
3:D:1253:THR:HG22	3:D:1258:ARG:HB2	1.64	0.79
3:D:1433:SER:HB2	3:D:1457:ASP:CG	2.03	0.79
3:N:558:LEU:HD22	5:P:145:PRO:HB3	1.62	0.79
4:E:54:LEU:O	4:E:54:LEU:HD23	1.81	0.79
3:N:1045:MET:HG2	3:N:1073:SER:HA	1.64	0.79
5:F:287:THR:HG22	5:F:290:GLU:OE1	1.82	0.79
1:L:175:ARG:HB2	1:L:200:TRP:HB3	1.63	0.79
3:D:141:ILE:N	3:D:141:ILE:HD12	1.95	0.78
3:N:659:LYS:O	3:N:663:GLU:HG3	1.83	0.78
2:M:21:ILE:HD12	2:M:21:ILE:H	1.48	0.78
2:M:845:ASN:HD22	2:M:884:GLN:HE22	1.31	0.78
3:D:96:ALA:HB3	3:D:554:LEU:HG	1.66	0.78
3:N:785:ILE:HD12	3:N:785:ILE:N	1.98	0.78
3:D:396:VAL:HG21	3:D:447:VAL:HG12	1.64	0.78
4:E:46:PRO:HB3	4:E:54:LEU:HD22	1.65	0.78
2:M:230:ARG:HB2	2:M:233:GLU:HB3	1.63	0.78
3:N:798:GLU:OE1	3:N:828:LYS:HE2	1.84	0.78
2:C:1109:VAL:HG11	3:D:5:VAL:HG22	1.63	0.78
3:N:677:LEU:HD21	3:N:687:VAL:HG11	1.65	0.78
3:N:191:LEU:HB3	3:N:195:VAL:HG21	1.64	0.78
5:P:163:LEU:HD13	5:P:174:LEU:HD21	1.65	0.78
4:E:10:PHE:CE2	4:E:16:LYS:HG3	2.18	0.78
1:A:9:PRO:HD2	1:B:224:TYR:CD1	2.19	0.78
2:C:1032:PHE:HZ	2:C:1040:LEU:HD22	1.48	0.78
3:D:1046:GLN:NE2	3:D:1052:THR:HG22	1.99	0.78
3:N:617:ASN:O	3:N:618:LEU:HD23	1.83	0.78
3:N:1116:ASN:HD22	3:N:1116:ASN:N	1.79	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:813:LEU:O	3:D:817:GLU:HG3	1.82	0.78
5:P:394:ARG:HD2	5:P:394:ARG:H	1.47	0.78
2:C:195:LEU:HG	2:C:238:LEU:HD12	1.66	0.78
3:D:212:ARG:CD	3:D:445:ARG:HH22	1.96	0.78
3:D:218:LYS:NZ	3:D:370:ALA:HA	1.99	0.78
6:M:1120:STD:H243	3:N:1090:ASP:OD1	1.84	0.78
5:F:94:LEU:HD13	5:F:96:LEU:H	1.47	0.78
5:P:132:ARG:O	5:P:136:LEU:HG	1.84	0.78
3:D:728:LEU:HD22	3:D:745:MET:HE1	1.63	0.78
2:M:197:LEU:HA	2:M:200:LEU:HD12	1.66	0.78
2:M:721:ARG:HE	2:M:783:ARG:NH2	1.82	0.78
2:M:605:LYS:HD3	2:M:610:ARG:HH22	1.49	0.78
3:D:108:VAL:HB	3:D:109:PRO:CD	2.12	0.77
3:N:216:VAL:HG11	3:N:221:ALA:HA	1.66	0.77
2:C:841:ASN:HD21	2:C:845:ASN:H	1.29	0.77
3:D:139:GLY:O	3:D:147:VAL:HG22	1.83	0.77
1:K:150:TYR:CE2	1:K:152:PRO:HG3	2.17	0.77
2:M:470:PRO:HB2	2:M:534:VAL:CG2	2.13	0.77
3:D:28:LYS:HD3	3:D:41:ARG:HD2	1.65	0.77
5:F:358:LEU:HD11	5:F:370:LYS:CE	2.14	0.77
2:C:326:ASP:HA	2:C:331:ARG:HD2	1.63	0.77
3:N:374:GLU:HG2	3:N:386:HIS:HA	1.66	0.77
3:D:972:LEU:HD23	3:D:973:GLN:N	1.99	0.77
2:C:742:VAL:HG12	2:C:743:VAL:H	1.49	0.77
2:C:91:GLN:NE2	2:C:117:HIS:HB2	1.99	0.77
3:N:231:VAL:HB	3:N:378:ILE:HG23	1.67	0.77
1:K:58:ILE:HD13	1:K:140:MET:HB2	1.66	0.77
2:C:22:GLN:NE2	2:C:336:VAL:HG21	1.98	0.77
3:D:653:PHE:CE1	3:D:695:ILE:HD11	2.20	0.77
1:K:12:THR:HG23	1:K:24:VAL:HB	1.67	0.77
3:N:1175:ILE:O	3:N:1179:GLU:HG3	1.83	0.77
1:L:5:LYS:HA	1:L:5:LYS:HE3	1.66	0.77
1:K:103:ALA:O	1:K:104:GLU:HG3	1.85	0.77
1:K:42:ARG:NH1	2:M:857:ASP:HB3	2.00	0.77
2:M:1083:GLU:O	2:M:1087:VAL:HG23	1.84	0.77
3:N:558:LEU:HD13	5:P:145:PRO:CA	2.14	0.77
1:A:90:LEU:HB2	1:A:119:ASP:HB3	1.67	0.77
3:N:1381:VAL:HG23	3:N:1391:GLU:HB2	1.64	0.77
3:D:820:GLU:HG3	3:D:836:VAL:HG21	1.66	0.77
3:N:12:LEU:HD21	3:N:104:PHE:CE1	2.18	0.77
3:D:808:THR:HB	3:D:809:PRO:HD3	1.65	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:84:TYR:CE1	5:F:192:LEU:HD22	2.20	0.77
2:M:444:PRO:HB2	2:M:448:ASN:O	1.84	0.77
2:C:585:GLU:O	2:C:588:VAL:HG22	1.85	0.77
2:C:588:VAL:HG21	2:C:664:GLY:O	1.85	0.77
3:N:1450:ALA:HA	3:N:1455:LYS:HG3	1.65	0.77
3:N:1189:ARG:NH2	3:N:1203:LYS:HB2	1.99	0.77
3:D:218:LYS:HZ3	3:D:370:ALA:CA	1.98	0.77
3:N:1114:THR:HG22	3:N:1116:ASN:HD21	1.50	0.77
3:D:1009:LYS:HE3	3:D:1013:GLU:OE1	1.84	0.77
2:C:116:GLY:HA2	2:C:379:GLU:OE1	1.85	0.77
3:D:55:ASP:HA	3:D:82:LYS:HG2	1.67	0.77
3:N:804:LEU:O	3:N:804:LEU:HD12	1.85	0.77
3:D:539:ASP:HB3	3:D:600:LEU:HD22	1.67	0.77
3:D:785:ILE:CD1	3:D:935:LYS:HA	2.14	0.76
2:M:691:SER:CB	2:M:858:MET:SD	2.73	0.76
3:D:149:LYS:HD3	3:D:149:LYS:N	1.99	0.76
3:N:1109:GLU:CG	3:N:1202:GLN:H	1.95	0.76
3:D:570:GLU:HB2	5:F:214:GLN:HE21	1.49	0.76
3:D:1086:LEU:HB2	6:D:1525:STD:H312	1.67	0.76
3:D:1192:LEU:HD22	3:D:1345:GLU:OE2	1.85	0.76
3:D:1047:LYS:HG2	3:D:1053:PHE:CE1	2.21	0.76
1:L:36:LEU:O	1:L:39:PRO:HD2	1.85	0.76
5:P:352:GLU:O	5:P:356:LYS:HG3	1.86	0.76
3:N:52:PRO:HG3	3:N:80:VAL:HA	1.66	0.76
3:D:914:LEU:O	3:D:914:LEU:HD23	1.85	0.76
3:N:1258:ARG:NH2	3:N:1351:GLU:HG2	1.97	0.76
3:N:554:LEU:HD22	3:N:570:GLU:HG2	1.66	0.76
2:C:1071:ILE:CD1	3:D:655:PRO:HB3	2.16	0.76
3:N:833:GLU:OE1	3:N:834:THR:HG23	1.85	0.76
3:D:1472:ILE:HG22	3:D:1474:ALA:H	1.50	0.76
1:L:132:LEU:CD2	1:L:138:LEU:HB2	2.14	0.76
1:K:109:VAL:HG23	1:K:132:LEU:HD13	1.66	0.76
3:D:1042:ARG:O	3:D:1057:VAL:HB	1.86	0.76
3:N:108:VAL:HB	3:N:109:PRO:HD3	1.67	0.76
1:A:42:ARG:HH12	2:C:857:ASP:CB	1.96	0.76
3:N:858:VAL:HG12	3:N:859:ASP:H	1.49	0.76
1:K:228:PRO:HG3	1:L:11:PHE:CE2	2.20	0.76
3:N:957:PRO:HG2	3:N:1007:VAL:HG12	1.68	0.76
5:P:109:GLY:O	5:P:112:ALA:HB3	1.85	0.76
2:C:897:LEU:HD11	2:C:920:GLN:HG2	1.68	0.76
2:C:292:ARG:NH1	2:C:299:LYS:HD3	1.99	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:857:ILE:HG22	3:D:858:VAL:HG22	1.68	0.76
2:M:679:PHE:O	2:M:681:GLY:N	2.19	0.76
3:D:77:GLY:O	3:D:78:VAL:HG23	1.86	0.76
1:K:59:GLU:HG3	1:K:60:ASP:H	1.50	0.76
3:D:93:ILE:HD13	3:D:548:ILE:HD11	1.68	0.76
2:C:1057:SER:HB2	3:D:622:ARG:O	1.85	0.76
3:N:1388:ARG:HG3	3:N:1389:LEU:HD23	1.68	0.76
3:D:493:ARG:NH2	3:D:1389:LEU:HD21	1.97	0.76
2:C:952:LEU:HD12	2:C:969:GLN:HE22	1.50	0.76
5:F:82:ARG:HG2	5:F:86:HIS:CD2	2.21	0.76
3:D:18:ILE:HG23	3:D:518:PRO:HG3	1.67	0.76
5:F:313:GLU:OE2	5:F:314:PRO:HD2	1.85	0.76
3:D:192:ALA:O	3:D:195:VAL:HG23	1.85	0.76
3:D:119:SER:CB	3:D:123:LEU:HB2	2.16	0.76
2:M:1031:ARG:HD2	3:N:619:LEU:O	1.86	0.76
2:M:945:ARG:O	2:M:949:LYS:HG3	1.86	0.76
2:C:1016:ILE:HD13	2:C:1016:ILE:N	1.95	0.76
2:M:605:LYS:HD3	2:M:610:ARG:NH2	2.00	0.76
1:K:11:PHE:CE2	1:L:228:PRO:HG3	2.20	0.76
1:B:58:ILE:HG22	1:B:59:GLU:HG2	1.67	0.76
3:D:1277:ILE:HG22	3:D:1278:ASP:N	1.98	0.75
3:N:137:PRO:HD2	3:N:453:ASP:HB3	1.67	0.75
2:M:176:VAL:O	2:M:178:PRO:HD3	1.85	0.75
2:C:192:PRO:HB2	2:C:195:LEU:HB2	1.66	0.75
2:C:496:ILE:O	2:C:515:ALA:HB1	1.85	0.75
2:M:770:GLU:HG2	3:N:65:ARG:HH22	1.51	0.75
3:D:984:THR:HG23	3:D:987:GLU:H	1.50	0.75
1:A:206:THR:HB	1:A:209:GLU:CG	2.14	0.75
2:C:471:TYR:CE2	2:C:496:ILE:HG21	2.20	0.75
3:D:629:SER:HB3	3:D:726:ILE:HD11	1.68	0.75
3:D:1495:ILE:HG23	3:D:1499:ARG:HH21	1.51	0.75
3:N:1379:VAL:HB	3:N:1417:TRP:HB2	1.67	0.75
4:O:26:ARG:O	4:O:30:LEU:HB2	1.86	0.75
2:C:64:LEU:HD11	2:C:100:LEU:HB2	1.69	0.75
3:D:162:ARG:HG3	3:D:163:TYR:N	1.96	0.75
3:D:1372:VAL:HG22	3:D:1375:MET:CE	2.17	0.75
1:L:20:TYR:O	1:L:207:PRO:HG2	1.87	0.75
3:D:1191:PRO:HA	3:D:1194:CYS:SG	2.26	0.75
1:B:151:VAL:N	1:B:169:ALA:HB3	2.01	0.75
5:F:261:PRO:O	5:F:265:VAL:HG23	1.87	0.75
2:C:1095:LEU:HD21	3:D:582:LEU:O	1.86	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1335:LEU:O	3:N:1335:LEU:HD23	1.87	0.75
2:C:1067:TYR:CB	5:F:341:PRO:HB3	2.17	0.75
2:C:944:LEU:HD21	2:C:963:LEU:CD2	2.17	0.75
2:M:79:PRO:HG2	2:M:82:GLU:HB2	1.69	0.75
1:A:195:LEU:HD11	1:A:197:LEU:HD22	1.69	0.75
3:N:940:THR:O	3:N:943:THR:HG23	1.85	0.75
5:P:354:LEU:HD23	5:P:418:LEU:HD21	1.69	0.75
5:P:135:ILE:HD11	5:P:178:ARG:CB	2.17	0.75
2:M:352:ALA:HA	2:M:355:VAL:CG1	2.16	0.75
2:M:578:VAL:H	2:M:671:ASN:ND2	1.84	0.75
2:M:1007:ALA:HB2	3:N:648:MET:HG2	1.69	0.75
3:N:601:ARG:HD3	3:N:613:ARG:HH21	1.52	0.75
2:M:597:ALA:HB3	2:M:653:ASP:H	1.51	0.75
3:N:177:ALA:C	3:N:199:LEU:HD13	2.07	0.75
5:P:163:LEU:HB3	5:P:174:LEU:HG	1.68	0.75
1:K:205:VAL:HG23	1:K:206:THR:N	2.00	0.75
3:N:1220:ALA:O	3:N:1222:GLY:N	2.19	0.75
2:C:443:THR:HG23	2:C:444:PRO:HD2	1.69	0.75
3:N:475:LYS:HA	3:N:478:LEU:HD12	1.68	0.75
3:N:1176:LYS:HA	3:N:1179:GLU:OE1	1.87	0.75
1:L:86:VAL:HG12	1:L:124:ASN:HD22	1.52	0.75
1:B:58:ILE:HG22	1:B:59:GLU:H	1.50	0.75
3:N:185:VAL:HA	3:N:189:GLN:HG3	1.67	0.75
2:M:516:ARG:CZ	3:N:1068:LEU:HD22	2.17	0.74
2:M:165:LEU:HD12	2:M:166:PRO:HA	1.68	0.74
3:D:1120:VAL:HG11	3:D:1144:LEU:HG	1.67	0.74
3:D:1330:ILE:HG21	3:D:1335:LEU:HD12	1.66	0.74
3:N:177:ALA:HB1	3:N:199:LEU:HD22	1.69	0.74
3:D:205:TYR:CB	3:D:393:ILE:HD13	2.13	0.74
1:B:36:LEU:O	1:B:39:PRO:HD2	1.86	0.74
3:N:895:VAL:HG13	3:N:921:ARG:HH11	1.50	0.74
2:C:1102:LEU:HD13	3:D:9:ARG:HB3	1.69	0.74
3:D:31:THR:HG23	3:D:45:PHE:HE2	1.50	0.74
1:L:12:THR:HG23	1:L:24:VAL:HB	1.67	0.74
1:A:87:VAL:HG21	1:A:144:VAL:HG11	1.69	0.74
2:M:910:LYS:HB2	2:M:913:GLU:HG3	1.69	0.74
3:N:654:LYS:HB3	3:N:655:PRO:CD	2.18	0.74
3:N:956:ILE:HG12	3:N:1039:CYS:O	1.88	0.74
3:N:196:VAL:HG22	3:N:204:LEU:HD23	1.70	0.74
3:D:817:GLU:O	3:D:821:VAL:HG23	1.87	0.74
1:A:227:ASN:O	1:B:11:PHE:HB3	1.87	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:1082:PRO:HG2	3:N:1469:GLY:HA3	1.69	0.74
2:C:602:GLU:HB3	2:C:614:ARG:HB3	1.70	0.74
3:N:736:PHE:CD1	3:N:736:PHE:N	2.54	0.74
3:N:1121:PRO:HD3	3:N:1346:ARG:NH2	2.01	0.74
2:C:397:GLU:HG2	2:C:633:GLN:NE2	2.01	0.74
3:D:1489:GLN:O	3:D:1493:LYS:HG2	1.86	0.74
2:C:689:VAL:HG23	2:C:870:ILE:HB	1.69	0.74
2:M:415:PRO:CB	2:M:418:LEU:HD23	2.16	0.74
3:D:1432:LYS:HD2	3:D:1433:SER:N	2.02	0.74
1:A:43:ILE:CD1	1:B:35:THR:HG21	2.17	0.74
3:D:1046:GLN:HB3	3:D:1052:THR:HA	1.69	0.74
2:M:456:ALA:HB3	2:M:459:ALA:HB2	1.68	0.74
3:D:119:SER:H	3:D:123:LEU:HB2	1.51	0.74
2:M:281:LEU:HD12	2:M:305:PRO:HB2	1.68	0.74
2:C:863:ASP:O	2:C:865:THR:HG22	1.88	0.74
3:N:1046:GLN:HG3	3:N:1046:GLN:O	1.88	0.74
2:C:1074:GLU:HG2	2:C:1075:ASP:N	2.02	0.74
5:F:120:THR:HG22	5:F:122:LEU:HD13	1.69	0.74
2:C:534:VAL:N	2:C:538:GLN:HE22	1.86	0.74
3:N:141:ILE:HG22	3:N:142:LEU:N	2.02	0.74
2:M:676:ILE:CG2	2:M:988:VAL:HG13	2.18	0.74
3:N:676:MET:HE1	3:N:684:LYS:H	1.52	0.74
3:N:625:TYR:HB3	3:N:749:VAL:CG2	2.17	0.74
2:M:709:GLU:O	2:M:790:LEU:HD22	1.88	0.74
3:D:96:ALA:CB	3:D:554:LEU:HG	2.16	0.74
3:N:59:ALA:HB3	3:N:78:VAL:HG21	1.70	0.74
3:N:387:LEU:CD2	5:P:97:GLU:HG2	2.18	0.74
2:M:328:LEU:HB2	2:M:433:THR:HB	1.70	0.74
3:N:1104:GLU:O	3:N:1106:VAL:HG23	1.87	0.74
3:D:367:ILE:HD13	3:D:368:VAL:H	1.53	0.74
2:M:674:VAL:HG12	2:M:990:GLY:O	1.88	0.74
2:C:775:ARG:NH1	2:C:782:ALA:HB1	2.02	0.74
2:C:602:GLU:CG	2:C:603:VAL:H	2.01	0.73
5:P:226:LYS:HG3	5:P:242:TRP:CH2	2.23	0.73
2:C:690:ILE:HB	2:C:852:ILE:CD1	2.18	0.73
3:D:172:PRO:HB3	3:D:178:LEU:HD12	1.71	0.73
3:N:368:VAL:HG22	3:N:369:ALA:N	2.02	0.73
5:P:367:MET:HG3	5:P:370:LYS:HE2	1.69	0.73
3:N:565:ILE:H	3:N:565:ILE:HD12	1.53	0.73
2:C:588:VAL:HG23	2:C:589:ARG:N	2.03	0.73
3:D:828:LYS:HD3	3:D:828:LYS:N	2.04	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:304:LEU:HB3	2:C:305:PRO:HD3	1.68	0.73
2:C:1087:VAL:O	2:C:1091:GLU:HB2	1.87	0.73
3:D:493:ARG:HE	3:D:1389:LEU:HG	1.54	0.73
2:M:573:ARG:HH21	2:M:697:ARG:HB3	1.53	0.73
5:F:392:VAL:HG11	5:F:396:ARG:CD	2.17	0.73
3:N:1115:THR:CG2	3:N:1151:ARG:HH21	2.01	0.73
1:K:13:VAL:HG12	1:K:14:ARG:N	2.03	0.73
3:D:87:ARG:HB3	3:D:523:ASP:HB2	1.70	0.73
3:D:133:ILE:HG21	3:D:454:ALA:HB1	1.71	0.73
2:C:568:ALA:CB	2:C:668:LEU:HD22	2.18	0.73
2:C:30:LEU:HD12	2:C:30:LEU:O	1.88	0.73
3:D:583:ASP:OD2	3:D:604:THR:HB	1.88	0.73
2:C:906:PHE:HD1	3:D:1067:VAL:HG22	1.48	0.73
3:N:396:VAL:HG13	3:N:447:VAL:HA	1.69	0.73
3:D:375:GLU:O	3:D:385:VAL:HG12	1.88	0.73
3:D:93:ILE:HD13	3:D:548:ILE:CD1	2.19	0.73
3:N:625:TYR:HB3	3:N:749:VAL:HG23	1.70	0.73
2:C:127:PHE:CD1	2:C:386:PHE:HE2	2.07	0.73
2:C:810:ASP:HB3	2:C:813:VAL:HG22	1.69	0.73
2:M:839:LEU:O	2:M:839:LEU:HD12	1.89	0.73
3:D:191:LEU:HD22	3:D:195:VAL:HG11	1.70	0.73
3:D:1282:ARG:HD3	3:D:1295:GLU:OE1	1.88	0.73
3:N:1396:GLU:HA	3:N:1399:ASP:OD2	1.88	0.73
1:B:9:PRO:HB3	1:B:25:LEU:HG	1.70	0.73
3:D:72:VAL:HG12	3:D:73:CYS:N	2.03	0.73
3:N:699:VAL:HB	3:N:716:PHE:O	1.89	0.73
3:N:1121:PRO:HD3	3:N:1346:ARG:HH22	1.54	0.73
2:M:252:LYS:HE2	2:M:296:GLY:HA3	1.71	0.73
2:M:757:GLY:HA2	2:M:789:SER:OG	1.88	0.73
3:D:217:LYS:NZ	3:D:389:GLU:HB3	2.04	0.73
2:C:889:HIS:HE1	3:D:951:ILE:N	1.84	0.73
3:D:245:LEU:HD13	3:D:245:LEU:H	1.52	0.73
1:K:35:THR:O	1:K:39:PRO:HG2	1.88	0.73
2:M:521:PRO:HG3	3:N:1068:LEU:HD21	1.69	0.73
3:D:223:LEU:N	3:D:365:ASP:HB2	2.02	0.73
3:D:40:GLU:HG3	3:D:41:ARG:H	1.52	0.73
3:D:808:THR:CB	3:D:809:PRO:HD3	2.19	0.73
3:N:123:LEU:HD21	3:N:152:LEU:HD22	1.71	0.73
4:E:54:LEU:CA	4:E:58:PRO:HG2	2.17	0.73
3:N:701:LEU:HD21	3:N:763:MET:CE	2.19	0.73
2:M:507:ARG:HD2	2:M:507:ARG:H	1.52	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:851:LEU:O	3:D:854:ALA:HB3	1.89	0.73
3:N:1095:THR:O	3:N:1099:VAL:HG23	1.88	0.73
1:L:59:GLU:HG3	1:L:60:ASP:H	1.52	0.73
1:L:66:SER:O	1:L:75:VAL:HG23	1.88	0.73
2:M:1043:TYR:CE2	3:N:763:MET:HA	2.24	0.72
5:F:84:TYR:O	5:F:88:ILE:HG13	1.89	0.72
3:N:455:ARG:HH22	5:P:140:ARG:HB2	1.52	0.72
2:M:130:ASN:HD21	2:M:383:ARG:HH21	1.37	0.72
3:D:571:LYS:HB2	3:D:571:LYS:NZ	2.04	0.72
2:C:183:SER:CB	2:C:190:LYS:HD3	2.19	0.72
5:F:270:LYS:HB3	5:F:295:MET:HE1	1.71	0.72
5:F:234:LYS:HD2	5:F:236:SER:N	2.04	0.72
2:C:290:LEU:H	2:C:290:LEU:HD23	1.54	0.72
2:C:51:THR:HG21	2:C:348:LEU:HB3	1.72	0.72
3:D:907:GLU:HG3	3:D:1026:SER:HA	1.71	0.72
3:D:119:SER:O	3:D:121:THR:N	2.23	0.72
3:N:1271:LYS:NZ	3:N:1334:GLN:HE22	1.88	0.72
5:P:130:VAL:HG21	5:P:159:ILE:HG21	1.70	0.72
3:N:455:ARG:HH11	3:N:455:ARG:HG2	1.54	0.72
2:C:256:TYR:HE1	2:C:293:PHE:HB2	1.54	0.72
3:N:191:LEU:HD12	3:N:211:VAL:HG21	1.72	0.72
2:M:573:ARG:NH2	2:M:697:ARG:HB3	2.04	0.72
3:D:1282:ARG:HA	3:D:1315:ASP:OD1	1.90	0.72
2:M:689:VAL:CG2	2:M:870:ILE:HB	2.20	0.72
2:C:343:GLN:HG2	2:C:385:PHE:HB2	1.71	0.72
3:D:625:TYR:O	3:D:749:VAL:HG23	1.89	0.72
2:M:569:VAL:HG12	2:M:996:LYS:O	1.90	0.72
4:E:23:VAL:HG22	4:E:64:ALA:HB3	1.70	0.72
3:N:560:GLN:HA	3:N:560:GLN:HE21	1.54	0.72
1:A:144:VAL:HG12	1:A:145:ASP:N	2.03	0.72
3:N:1463:LYS:O	3:N:1467:ILE:HG13	1.90	0.72
2:C:984:GLU:HG2	3:D:944:THR:O	1.90	0.72
1:K:133:GLU:HG2	1:K:134:GLU:H	1.54	0.72
2:M:1049:LEU:O	2:M:1053:LEU:HD23	1.89	0.72
3:N:422:ALA:HA	5:P:178:ARG:HH21	1.54	0.72
2:M:1111:ILE:HG13	2:M:1112:PHE:CD1	2.22	0.72
5:P:358:LEU:HD21	5:P:370:LYS:HZ3	1.50	0.72
1:A:184:THR:HG23	1:A:192:LEU:HB2	1.72	0.72
3:D:1104:GLU:HA	3:D:1461:GLY:HA2	1.72	0.72
2:M:226:VAL:HG22	2:M:230:ARG:NH2	2.03	0.72
2:C:671:ASN:HD22	2:C:671:ASN:N	1.88	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:309:TYR:HA	2:C:312:ALA:HB3	1.71	0.72
5:P:276:ARG:HG3	5:P:276:ARG:HH11	1.54	0.72
2:C:289:THR:HG22	2:C:290:LEU:H	1.53	0.72
3:D:1130:ARG:HH21	3:D:1132:LEU:HG	1.55	0.72
2:C:575:GLN:N	2:C:667:ALA:HB1	2.04	0.72
3:D:223:LEU:HA	3:D:365:ASP:OD1	1.89	0.72
3:N:12:LEU:HD11	3:N:104:PHE:HE1	1.55	0.72
3:N:1003:VAL:O	3:N:1007:VAL:HG13	1.88	0.72
2:C:1088:LEU:O	2:C:1092:LEU:HB2	1.90	0.72
3:D:136:ASP:HB3	3:D:137:PRO:HD2	1.71	0.71
3:N:1393:GLN:CB	3:N:1398:TRP:HE1	2.01	0.71
3:N:13:ALA:HB1	3:N:18:ILE:HD11	1.71	0.71
3:D:224:ARG:HG2	3:D:225:LEU:N	2.04	0.71
2:C:720:GLU:OE2	2:C:760:SER:HB3	1.90	0.71
3:D:845:ASN:H	3:D:848:GLU:HG3	1.55	0.71
3:D:483:HIS:HB2	3:D:484:PRO:HD3	1.73	0.71
3:N:536:ALA:HB2	5:P:315:VAL:HG12	1.69	0.71
3:N:621:LYS:O	3:N:622:ARG:CG	2.38	0.71
3:D:179:VAL:HG13	3:D:389:GLU:HG3	1.72	0.71
2:M:260:LEU:HG	2:M:261:ILE:N	2.05	0.71
2:M:181:VAL:HG12	2:M:182:VAL:H	1.55	0.71
3:N:858:VAL:HG12	3:N:859:ASP:N	2.05	0.71
1:K:99:LEU:HB3	1:K:114:PHE:CD2	2.25	0.71
4:E:82:GLU:CD	4:E:82:GLU:H	1.91	0.71
3:N:769:LEU:N	3:N:769:LEU:HD12	2.06	0.71
3:D:140:ALA:HB3	3:D:141:ILE:HD12	1.72	0.71
3:D:654:LYS:HB3	3:D:655:PRO:CD	2.19	0.71
3:D:1129:THR:HG23	3:D:1130:ARG:N	2.04	0.71
3:N:423:ASP:CB	5:P:178:ARG:HB2	2.18	0.71
3:D:1113:GLY:O	3:D:1115:THR:N	2.23	0.71
2:M:176:VAL:CG1	2:M:182:VAL:HG13	2.19	0.71
3:D:1486:VAL:O	3:D:1487:VAL:HG13	1.89	0.71
3:N:1155:VAL:CG1	3:N:1183:ILE:HD11	2.20	0.71
5:F:282:LEU:HD12	5:F:284:ARG:HB2	1.72	0.71
2:C:607:ASP:C	2:C:609:ASN:N	2.40	0.71
3:D:1488:ASP:OD2	3:D:1491:THR:HG23	1.91	0.71
1:K:47:SER:HB2	1:K:217:ILE:HD13	1.72	0.71
3:D:12:LEU:HD13	3:D:511:TRP:HB2	1.72	0.71
2:C:188:LYS:C	2:C:188:LYS:HE2	2.10	0.71
4:E:23:VAL:HG21	4:E:65:MET:CG	2.19	0.71
5:P:371:LEU:HD22	5:P:375:LEU:HD22	1.73	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:601:ARG:HD3	3:N:613:ARG:NH2	2.05	0.71
1:B:226:SER:O	1:B:228:PRO:HD3	1.90	0.71
3:N:887:ALA:HB1	3:N:893:GLU:HG2	1.72	0.71
3:D:1209:LEU:CD2	3:D:1210:SER:H	2.03	0.71
3:D:493:ARG:HH21	3:D:1389:LEU:CD2	2.00	0.71
2:M:574:ALA:O	2:M:575:GLN:HB2	1.89	0.71
2:C:627:ARG:HG3	2:C:628:PHE:N	2.05	0.71
3:N:119:SER:HB2	3:N:123:LEU:N	2.04	0.71
3:N:387:LEU:HD12	5:P:96:LEU:CB	2.21	0.71
4:E:54:LEU:HG	4:E:58:PRO:CB	2.21	0.71
2:M:1044:GLY:O	2:M:1046:ALA:N	2.17	0.71
3:N:1158:VAL:HG12	3:N:1159:ARG:H	1.54	0.71
5:F:368:VAL:O	5:F:372:ARG:HB2	1.89	0.71
5:F:288:TYR:CE2	5:F:305:GLU:HG3	2.26	0.71
2:M:397:GLU:OE2	2:M:632:ASN:HB2	1.89	0.71
2:C:141:HIS:CE1	2:C:332:ARG:HH11	2.09	0.71
2:M:670:GLN:HE22	2:M:699:PHE:HA	1.56	0.71
3:D:396:VAL:HG13	3:D:446:VAL:C	2.10	0.71
3:N:387:LEU:HG	5:P:97:GLU:HG2	1.71	0.71
3:N:1045:MET:CG	3:N:1073:SER:HA	2.20	0.71
3:D:703:ASN:HD22	3:D:704:ARG:H	1.38	0.71
3:D:186:VAL:CG1	3:D:187:LYS:H	2.00	0.71
3:N:785:ILE:CD1	3:N:785:ILE:H	1.96	0.71
3:N:176:ASP:OD1	3:N:219:GLU:HB2	1.90	0.71
3:N:1065:LEU:CD2	3:N:1070:TYR:HD2	2.02	0.71
2:M:21:ILE:HD12	2:M:21:ILE:N	2.05	0.71
2:M:922:PHE:HD2	2:M:964:LYS:HD3	1.56	0.71
2:C:682:TYR:CD1	3:D:635:PRO:HG2	2.26	0.71
3:N:434:ARG:O	3:N:447:VAL:HG22	1.91	0.71
3:D:1130:ARG:HH21	3:D:1132:LEU:H	1.37	0.71
3:N:421:LEU:HG	3:N:422:ALA:O	1.90	0.71
2:M:140:ILE:HA	2:M:332:ARG:O	1.91	0.71
3:N:1134:LEU:HD23	3:N:1135:ARG:H	1.55	0.71
3:D:699:VAL:N	3:D:756:GLN:HE22	1.88	0.71
3:N:562:ALA:O	3:N:567:ILE:HD11	1.91	0.71
2:C:490:GLU:O	2:C:490:GLU:HG2	1.89	0.71
3:D:524:LEU:C	3:D:526:PRO:HD3	2.11	0.71
1:A:39:PRO:O	1:A:43:ILE:HG12	1.91	0.71
3:N:710:ARG:NH1	3:N:1210:SER:OG	2.23	0.71
3:D:709:HIS:HD2	3:D:711:LEU:HB2	1.56	0.71
3:N:535:PHE:O	5:P:314:PRO:HA	1.91	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1310:ARG:HE	3:D:1327:ARG:HB3	1.55	0.70
3:N:700:VAL:HG22	3:N:718:PRO:HG3	1.73	0.70
2:C:1004:LYS:HE3	2:C:1027:PHE:HE1	1.56	0.70
3:N:1197:ARG:HD3	3:N:1396:GLU:HB2	1.72	0.70
1:L:137:ARG:HH12	1:L:139:ASN:HB3	1.56	0.70
1:L:216:GLU:OE2	1:L:220:GLU:HG3	1.90	0.70
3:N:882:PHE:O	3:N:886:VAL:HG23	1.90	0.70
1:B:12:THR:OG1	1:B:24:VAL:HB	1.91	0.70
3:D:634:GLY:O	3:D:637:LEU:HB2	1.91	0.70
4:O:41:GLU:HA	4:O:45:ARG:HG3	1.71	0.70
3:D:795:VAL:HG12	3:D:796:ARG:H	1.56	0.70
2:M:1043:TYR:CD2	3:N:763:MET:HA	2.27	0.70
5:P:420:ASP:O	5:P:422:LEU:HD23	1.90	0.70
3:D:814:ALA:O	3:D:818:ARG:HG3	1.91	0.70
3:D:533:GLY:HA3	5:F:309:LYS:HB3	1.72	0.70
2:C:139:GLN:HE22	2:C:415:PRO:CD	2.04	0.70
2:M:428:ARG:NH2	2:M:449:ILE:HG22	2.05	0.70
2:M:689:VAL:HG23	2:M:870:ILE:HB	1.73	0.70
2:C:194:VAL:HG22	2:C:221:LEU:HD12	1.71	0.70
3:N:466:LYS:HG2	3:N:510:GLU:HG2	1.71	0.70
3:N:1043:GLY:O	3:N:1057:VAL:N	2.24	0.70
4:E:25:LYS:HA	4:E:28:GLN:NE2	2.06	0.70
3:N:1336:LEU:HA	3:N:1340:GLY:O	1.90	0.70
3:N:809:PRO:CB	3:N:812:ALA:HB2	2.18	0.70
4:O:24:ALA:O	4:O:28:GLN:HG3	1.91	0.70
3:D:984:THR:HG22	3:D:987:GLU:HG3	1.74	0.70
3:N:951:ILE:HD13	3:N:951:ILE:O	1.92	0.70
3:N:138:LYS:N	3:N:138:LYS:HD2	2.06	0.70
6:M:1120:STD:H312	3:N:1086:LEU:HD13	1.73	0.70
2:M:732:ALA:O	2:M:735:ARG:HG3	1.91	0.70
3:N:1277:ILE:HG22	3:N:1278:ASP:N	2.05	0.70
2:M:265:ARG:HG3	2:M:288:ARG:CG	2.21	0.70
3:N:1275:SER:HB2	3:N:1325:LEU:HD11	1.72	0.70
2:C:1093:GLN:HG2	3:D:21:TRP:CH2	2.26	0.70
3:N:409:VAL:O	3:N:411:THR:HG23	1.91	0.70
1:K:218:LEU:O	1:K:222:LEU:HD22	1.92	0.70
3:D:1155:VAL:HG11	3:D:1177:ALA:CB	2.22	0.70
2:C:383:ARG:HB2	2:C:383:ARG:NH1	2.06	0.70
3:D:141:ILE:HG12	3:D:449:SER:HA	1.71	0.70
3:N:646:LYS:HA	3:N:720:LEU:HD22	1.73	0.70
2:M:575:GLN:OE1	2:M:670:GLN:HG2	1.92	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:225:LEU:HB2	3:N:227:LEU:CD2	2.22	0.70
1:K:39:PRO:O	1:K:43:ILE:HG12	1.91	0.70
3:D:565:ILE:HD12	3:D:565:ILE:N	2.04	0.70
2:M:106:GLY:O	2:M:107:LEU:HD23	1.91	0.70
3:N:465:LEU:CD1	3:N:513:ILE:HD11	2.21	0.70
2:C:1092:LEU:HD13	2:C:1099:VAL:HG21	1.74	0.70
3:N:1058:ARG:HH11	3:N:1058:ARG:HG3	1.57	0.70
1:B:189:ARG:HH11	1:B:189:ARG:HG3	1.55	0.70
1:B:97:VAL:HG11	1:B:120:VAL:HG21	1.72	0.70
3:N:82:LYS:NZ	5:P:339:PRO:HG2	2.07	0.70
3:N:1109:GLU:CB	3:N:1201:CYS:HA	2.22	0.70
3:D:215:TYR:HE2	3:D:375:GLU:HG2	1.56	0.70
3:D:1398:TRP:CZ3	3:D:1415:VAL:HG11	2.27	0.70
3:N:860:LEU:HA	3:N:877:PRO:HB2	1.72	0.70
2:M:1087:VAL:O	2:M:1091:GLU:HG3	1.90	0.70
2:C:650:ARG:N	2:C:650:ARG:HD3	2.05	0.70
3:D:562:ALA:HB1	3:D:567:ILE:HD11	1.74	0.70
3:D:1399:ASP:O	3:D:1403:LEU:HD12	1.91	0.70
3:D:10:ILE:HG13	3:D:1434:TRP:CZ2	2.27	0.70
3:N:1336:LEU:HD12	3:N:1340:GLY:C	2.11	0.70
2:C:462:ASP:CG	2:C:463:GLU:H	1.95	0.70
3:D:141:ILE:HD11	3:D:450:TYR:N	2.05	0.70
2:M:1015:LEU:HD13	2:M:1016:ILE:N	2.07	0.70
3:N:528:VAL:HG12	3:N:529:GLN:N	2.06	0.70
3:D:419:ASP:O	3:D:421:LEU:HD23	1.92	0.70
2:C:551:GLU:HB3	2:C:906:PHE:CD2	2.27	0.70
3:D:87:ARG:HB3	3:D:523:ASP:CB	2.22	0.70
3:D:1462:LEU:HD23	3:D:1473:PRO:HD2	1.74	0.70
2:C:383:ARG:HH11	2:C:383:ARG:HB2	1.57	0.70
1:L:106:PRO:HG3	1:L:134:GLU:OE1	1.91	0.70
1:A:219:ARG:HH22	1:B:219:ARG:HD2	1.56	0.70
3:D:168:THR:HG22	3:D:170:PRO:HD3	1.73	0.70
2:M:348:LEU:O	2:M:351:LEU:HB3	1.90	0.69
5:F:291:ILE:HD13	5:F:304:VAL:HG11	1.74	0.69
3:N:583:ASP:OD1	3:N:604:THR:HB	1.92	0.69
3:N:817:GLU:O	3:N:821:VAL:HG23	1.92	0.69
1:A:197:LEU:HD23	1:A:197:LEU:N	1.98	0.69
1:B:206:THR:HG23	1:B:207:PRO:HD2	1.74	0.69
3:N:1292:VAL:HG11	3:N:1325:LEU:HD23	1.74	0.69
2:M:420:ARG:HD2	2:M:420:ARG:H	1.55	0.69
3:N:382:GLU:HG2	3:N:383:GLY:N	2.07	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:1085:PHE:O	2:M:1088:LEU:HB3	1.92	0.69
2:M:325:ILE:H	2:M:325:ILE:CD1	1.95	0.69
5:P:367:MET:O	5:P:370:LYS:HG2	1.91	0.69
3:N:1472:ILE:O	3:N:1477:GLY:HA3	1.91	0.69
3:N:231:VAL:HB	3:N:378:ILE:CG2	2.22	0.69
2:C:289:THR:CG2	2:C:290:LEU:HD23	2.21	0.69
2:C:49:ARG:HH11	2:C:49:ARG:HB2	1.58	0.69
2:C:607:ASP:C	2:C:609:ASN:H	1.94	0.69
3:N:225:LEU:O	3:N:227:LEU:HD22	1.92	0.69
2:M:479:VAL:HG23	2:M:506:ASN:O	1.93	0.69
2:M:838:LYS:HG3	2:M:997:LEU:HB2	1.74	0.69
2:M:304:LEU:HB3	2:M:305:PRO:HD3	1.74	0.69
3:D:368:VAL:HG12	3:D:369:ALA:H	1.56	0.69
3:D:613:ARG:HH11	3:D:613:ARG:HG3	1.57	0.69
5:F:287:THR:CG2	5:F:289:GLU:HB2	2.22	0.69
1:L:220:GLU:O	1:L:223:THR:HG22	1.92	0.69
3:D:31:THR:HG23	3:D:45:PHE:CE2	2.27	0.69
1:B:56:VAL:HG22	1:B:142:VAL:HG12	1.75	0.69
5:F:353:GLU:HG2	5:F:417:LYS:HB3	1.73	0.69
1:K:86:VAL:HG12	1:K:124:ASN:HD22	1.57	0.69
1:B:212:ASN:O	1:B:215:VAL:HG22	1.93	0.69
2:C:95:TYR:CD2	2:C:114:PHE:HB3	2.26	0.69
2:M:564:MET:HA	2:M:564:MET:HE2	1.72	0.69
3:D:27:GLU:O	3:D:28:LYS:HG3	1.91	0.69
3:N:1340:GLY:O	3:N:1344:VAL:HG23	1.93	0.69
2:C:564:MET:HE2	2:C:846:LYS:HE2	1.73	0.69
2:M:1103:ASP:CG	2:M:1104:GLU:H	1.95	0.69
3:N:1011:PHE:CD2	3:N:1021:TYR:HB2	2.27	0.69
2:C:602:GLU:HG2	2:C:603:VAL:N	2.00	0.69
3:N:168:THR:HG22	3:N:170:PRO:HD3	1.74	0.69
5:F:346:THR:HG23	5:F:422:LEU:HB3	1.75	0.69
3:D:1101:VAL:HG21	3:D:1424:VAL:HG13	1.74	0.69
3:D:798:GLU:HG2	3:D:799:LYS:N	2.06	0.69
2:M:443:THR:HB	2:M:444:PRO:CD	2.22	0.69
2:M:770:GLU:HG2	3:N:65:ARG:NH2	2.06	0.69
5:P:274:THR:HG21	5:P:295:MET:CE	2.22	0.69
2:C:700:TYR:HB2	2:C:833:LEU:HD22	1.74	0.69
2:M:523:ILE:HD13	2:M:523:ILE:C	2.13	0.69
1:K:224:TYR:CE1	1:L:9:PRO:HD2	2.28	0.69
3:N:1311:LEU:H	3:N:1311:LEU:HD23	1.56	0.69
3:D:433:GLY:H	3:D:448:GLU:HA	1.58	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:549:PHE:HB3	2:C:552:HIS:HD2	1.58	0.69
2:C:52:PHE:CD2	2:C:68:PHE:HB2	2.27	0.69
3:D:172:PRO:CB	3:D:178:LEU:HD12	2.23	0.69
3:D:197:SER:CB	3:D:203:ALA:HB3	2.16	0.69
3:D:217:LYS:HZ3	3:D:217:LYS:HB2	1.55	0.69
3:D:1112:CYS:SG	3:D:1196:THR:HG23	2.32	0.69
3:D:1488:ASP:HB3	4:E:39:VAL:HG12	1.74	0.69
2:M:889:HIS:CE1	3:N:951:ILE:H	2.07	0.69
2:M:515:ALA:O	2:M:516:ARG:HD3	1.92	0.69
3:D:729:HIS:HE1	3:D:731:LEU:HG	1.57	0.69
3:N:828:LYS:N	3:N:828:LYS:HD3	2.08	0.69
2:C:1101:THR:C	2:C:1102:LEU:HD12	2.12	0.69
3:D:1372:VAL:HA	3:D:1375:MET:CE	2.23	0.69
3:N:58:CYS:SG	3:N:59:ALA:N	2.66	0.69
1:A:224:TYR:HB3	1:B:9:PRO:HB2	1.73	0.69
1:B:25:LEU:C	1:B:25:LEU:HD23	2.13	0.69
3:N:540:LEU:HA	3:N:543:LEU:HD12	1.75	0.69
2:C:185:LYS:H	2:C:185:LYS:HE3	1.57	0.69
5:P:87:GLU:O	5:P:91:VAL:HB	1.93	0.69
2:M:834:GLN:O	2:M:837:ASP:HB2	1.91	0.69
5:P:100:VAL:HG12	5:P:104:ARG:HH21	1.57	0.69
2:M:288:ARG:HA	2:M:288:ARG:NE	2.08	0.69
3:D:705:ALA:HB3	3:D:706:PRO:CD	2.22	0.69
1:K:97:VAL:HG12	1:K:98:THR:N	2.08	0.69
3:N:1438:ALA:C	3:N:1440:PHE:H	1.96	0.69
2:M:44:ILE:HG23	2:M:344:PHE:CE1	2.26	0.69
3:D:373:PRO:HB2	3:D:374:GLU:CD	2.13	0.69
5:F:358:LEU:HD21	5:F:370:LYS:HZ2	1.57	0.69
5:P:356:LYS:O	5:P:360:LYS:HG2	1.93	0.69
3:N:875:THR:CG2	3:N:879:ARG:HG3	2.23	0.69
2:M:139:GLN:HE22	2:M:414:GLY:HA3	1.58	0.69
1:A:18:ARG:O	1:A:207:PRO:HD3	1.93	0.69
2:C:64:LEU:HD12	2:C:101:ILE:O	1.93	0.69
2:M:226:VAL:HG22	2:M:230:ARG:HH22	1.58	0.69
2:C:944:LEU:HD21	2:C:963:LEU:HD23	1.74	0.69
2:M:350:ARG:HH11	2:M:350:ARG:HG2	1.58	0.69
3:N:1136:LYS:HD2	3:N:1139:ASP:OD1	1.93	0.69
3:D:127:LEU:HD21	3:D:461:ILE:HD11	1.75	0.68
4:E:46:PRO:HB3	4:E:54:LEU:CD2	2.23	0.68
3:D:244:GLU:OE1	3:D:366:LYS:HG3	1.94	0.68
5:F:132:ARG:O	5:F:136:LEU:HG	1.93	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:38:ASN:O	1:L:41:ARG:HB3	1.92	0.68
2:C:914:ILE:O	2:C:918:LEU:HD13	1.92	0.68
5:F:358:LEU:HD11	5:F:370:LYS:HE3	1.74	0.68
2:M:159:ILE:HG22	2:M:175:GLU:HG3	1.74	0.68
5:F:386:VAL:HG13	5:F:387:GLY:N	2.06	0.68
2:M:860:HIS:NE2	2:M:975:TYR:HB2	2.08	0.68
3:D:864:VAL:HG12	3:D:865:THR:N	2.09	0.68
3:D:1314:LYS:HZ1	3:D:1317:ASP:HB2	1.55	0.68
1:B:3:ASP:O	1:B:7:LYS:HB2	1.93	0.68
1:K:11:PHE:O	1:L:228:PRO:HA	1.93	0.68
2:C:776:SER:HA	2:C:780:GLU:HB3	1.75	0.68
3:D:1146:GLY:HA3	3:D:1207:TYR:HB2	1.76	0.68
2:M:981:GLU:HB3	2:M:982:PRO:CD	2.23	0.68
1:B:133:GLU:HG3	1:B:134:GLU:H	1.58	0.68
3:N:1356:TYR:CD1	3:N:1363:LEU:HD21	2.27	0.68
3:D:616:GLN:HG2	3:D:619:LEU:HD22	1.74	0.68
3:N:187:LYS:CE	3:N:213:VAL:H	2.06	0.68
3:D:116:LEU:HB3	3:D:118:LEU:CD1	2.19	0.68
3:D:544:TYR:CD1	3:D:581:LEU:HD22	2.29	0.68
1:A:86:VAL:CG1	1:A:124:ASN:HB2	2.24	0.68
5:P:88:ILE:CD1	5:P:193:ARG:HB2	2.20	0.68
2:M:474:VAL:HG23	2:M:478:VAL:O	1.93	0.68
2:C:1090:LYS:HD2	3:D:90:MET:HG3	1.75	0.68
3:D:1229:ILE:HD11	3:D:1367:HIS:HB3	1.73	0.68
3:D:1041:LEU:HB2	3:D:1058:ARG:O	1.92	0.68
3:D:211:VAL:HG12	3:D:212:ARG:H	1.58	0.68
3:D:765:SER:O	3:D:767:HIS:N	2.27	0.68
2:M:129:ILE:CG2	2:M:130:ASN:N	2.55	0.68
1:K:214:ALA:HA	1:K:217:ILE:HD12	1.76	0.68
2:C:1044:GLY:O	2:C:1046:ALA:N	2.27	0.68
3:N:125:GLN:HE22	3:N:587:ARG:NH2	1.92	0.68
2:C:881:ASN:H	2:C:881:ASN:HD22	1.40	0.68
3:N:413:ASP:OD1	3:N:444:VAL:HG21	1.93	0.68
1:B:28:LEU:O	1:B:192:LEU:HD22	1.92	0.68
2:C:488:ALA:O	2:C:491:GLU:HB3	1.93	0.68
3:N:119:SER:H	3:N:123:LEU:CD1	2.02	0.68
1:B:206:THR:HB	1:B:209:GLU:CG	2.21	0.68
5:P:394:ARG:H	5:P:394:ARG:CD	2.00	0.68
3:N:1219:GLU:HG2	3:N:1221:VAL:HG23	1.73	0.68
3:N:1459:LEU:HD12	3:N:1470:ARG:NH1	2.08	0.68
2:C:690:ILE:O	2:C:858:MET:HE1	1.93	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:522:PRO:HA	3:N:525:ARG:HH11	1.58	0.68
3:D:1396:GLU:HG2	3:D:1399:ASP:HB2	1.76	0.68
3:N:702:LEU:HD22	3:N:716:PHE:CD1	2.28	0.68
3:D:728:LEU:HD12	3:D:729:HIS:H	1.59	0.68
3:D:223:LEU:HD13	3:D:365:ASP:H	1.59	0.68
5:F:416:ARG:NH2	5:F:419:ARG:HG2	2.09	0.68
3:N:237:LYS:HE2	3:N:238:PRO:HG3	1.76	0.68
5:P:77:THR:O	5:P:80:PRO:HD2	1.94	0.68
3:D:1266:ARG:O	3:D:1268:PRO:HD3	1.93	0.68
5:F:153:PRO:O	5:F:156:VAL:HG22	1.93	0.68
3:N:192:ALA:O	3:N:195:VAL:HG23	1.94	0.68
1:A:197:LEU:H	1:A:197:LEU:CD2	1.92	0.68
3:D:669:ASN:O	3:D:672:ALA:HB3	1.93	0.68
2:M:950:LEU:HD12	2:M:952:LEU:HD21	1.74	0.68
3:D:1462:LEU:CD2	3:D:1473:PRO:HD2	2.23	0.68
3:N:28:LYS:HG2	3:N:41:ARG:HD2	1.75	0.68
2:C:203:ASP:OD1	2:C:206:THR:HG22	1.93	0.68
2:M:897:LEU:HB3	2:M:899:GLN:HE21	1.59	0.68
1:L:188:GLN:HG3	1:L:189:ARG:H	1.58	0.68
4:O:26:ARG:NH2	4:O:39:VAL:HG13	2.06	0.68
4:E:23:VAL:HG22	4:E:64:ALA:CB	2.23	0.68
2:C:397:GLU:HG2	2:C:633:GLN:HE21	1.59	0.68
1:B:58:ILE:HG21	1:B:68:ILE:HD11	1.76	0.68
3:N:1279:GLY:O	3:N:1318:TYR:HA	1.93	0.68
3:N:850:LEU:HA	3:N:853:VAL:HG23	1.74	0.68
3:D:1258:ARG:NH1	3:D:1261:GLU:OE2	2.26	0.68
2:M:478:VAL:CG1	2:M:506:ASN:HD22	2.07	0.68
2:M:200:LEU:HD13	2:M:300:ASP:OD1	1.94	0.68
2:C:742:VAL:HG12	2:C:743:VAL:N	2.09	0.68
2:C:1043:TYR:HE1	3:D:710:ARG:O	1.77	0.68
1:B:189:ARG:HD2	1:B:189:ARG:H	1.58	0.68
1:B:94:LEU:HD23	1:B:97:VAL:HG21	1.74	0.68
5:F:278:LEU:HB3	5:F:286:PRO:CG	2.24	0.68
3:N:558:LEU:HD13	5:P:145:PRO:HA	1.75	0.68
3:D:1399:ASP:O	3:D:1403:LEU:HB2	1.94	0.68
2:C:893:ALA:O	2:C:897:LEU:HB2	1.94	0.68
1:A:228:PRO:HB3	1:B:13:VAL:HG21	1.75	0.68
1:L:53:VAL:HA	1:L:144:VAL:HG22	1.75	0.68
2:M:26:TYR:O	2:M:29:ALA:HB3	1.93	0.68
2:C:673:LEU:HG	2:C:867:VAL:HG12	1.76	0.67
5:P:361:LEU:HD21	5:P:408:LEU:CB	2.22	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:573:MET:SD	5:P:210:LEU:HB3	2.33	0.67
3:D:1109:GLU:HG2	3:D:1201:CYS:HB2	1.75	0.67
2:C:474:VAL:HG23	2:C:478:VAL:O	1.94	0.67
3:D:824:ASN:O	3:D:826:PRO:HD3	1.93	0.67
1:A:13:VAL:HG12	1:A:14:ARG:N	2.08	0.67
3:N:215:TYR:HD1	3:N:390:PRO:HD2	1.59	0.67
1:K:75:VAL:O	1:K:79:ILE:HG23	1.94	0.67
2:C:873:PRO:O	2:C:875:GLY:N	2.27	0.67
3:N:47:GLU:OE1	3:N:53:ILE:HG22	1.94	0.67
3:D:1068:LEU:O	3:D:1072:ILE:HG12	1.94	0.67
2:M:470:PRO:HG3	2:M:485:TYR:CZ	2.29	0.67
2:M:640:ARG:HD3	2:M:642:ARG:NH2	2.09	0.67
1:B:7:LYS:HE3	1:B:186:LEU:HD22	1.76	0.67
3:D:1237:THR:HA	3:D:1255:GLY:HA3	1.76	0.67
2:C:697:ARG:O	2:C:699:PHE:N	2.28	0.67
1:A:206:THR:CG2	1:A:209:GLU:H	2.08	0.67
3:N:486:ARG:HE	3:N:489:ARG:HD3	1.60	0.67
3:D:640:HIS:NE2	3:D:717:GLN:NE2	2.42	0.67
3:D:520:LEU:HD12	3:D:521:PRO:CD	2.22	0.67
3:D:651:GLU:O	3:D:654:LYS:HB2	1.95	0.67
2:M:95:TYR:CE2	2:M:114:PHE:HB3	2.29	0.67
1:A:186:LEU:HB2	1:A:192:LEU:CD1	2.23	0.67
3:N:483:HIS:HB2	3:N:484:PRO:HD3	1.76	0.67
3:D:820:GLU:HG2	3:D:825:ALA:O	1.94	0.67
5:P:416:ARG:CZ	5:P:419:ARG:HD2	2.25	0.67
3:D:79:GLU:O	3:D:80:VAL:HB	1.94	0.67
3:N:185:VAL:HG13	3:N:189:GLN:OE1	1.95	0.67
2:C:710:ILE:HD11	2:C:758:ARG:CZ	2.25	0.67
3:D:754:PHE:CD1	4:E:24:ALA:HB1	2.30	0.67
3:N:760:ARG:HE	4:O:3:GLU:CD	1.97	0.67
3:D:986:ARG:O	3:D:990:ASP:OD1	2.11	0.67
2:M:1015:LEU:HB2	5:P:334:PRO:O	1.94	0.67
3:D:434:ARG:H	3:D:447:VAL:HG22	1.58	0.67
3:D:435:VAL:HG22	3:D:446:VAL:HG13	1.76	0.67
2:C:658:GLY:H	2:C:661:SER:CB	2.05	0.67
1:A:98:THR:C	1:A:99:LEU:HD12	2.15	0.67
3:N:481:MET:CE	3:N:1388:ARG:HE	2.07	0.67
3:D:702:LEU:HB3	3:D:745:MET:HG2	1.77	0.67
3:N:959:GLU:O	3:N:962:GLN:HB2	1.95	0.67
1:L:197:LEU:HD21	1:L:199:ILE:HG13	1.76	0.67
2:M:313:LEU:HD13	2:M:321:GLU:HG2	1.75	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1018:ASN:O	3:D:1022:VAL:HG23	1.94	0.67
3:D:396:VAL:HG22	3:D:447:VAL:HA	1.77	0.67
1:K:54:THR:O	1:K:54:THR:CG2	2.42	0.67
3:N:455:ARG:HH22	5:P:140:ARG:CB	2.07	0.67
2:C:1030:GLN:O	3:D:622:ARG:HA	1.94	0.67
3:D:1476:THR:HG22	3:D:1476:THR:O	1.94	0.67
3:N:1432:LYS:HD2	3:N:1432:LYS:H	1.58	0.67
1:B:27:PRO:HG2	1:B:186:LEU:CD1	2.24	0.67
2:C:163:ILE:HG13	2:C:171:TRP:CZ3	2.30	0.67
3:N:525:ARG:N	3:N:526:PRO:HD3	2.09	0.67
3:D:984:THR:CG2	3:D:987:GLU:H	2.08	0.67
2:C:480:THR:HG22	2:C:481:ASP:H	1.59	0.67
1:K:41:ARG:NH1	1:K:177:VAL:O	2.28	0.67
1:K:206:THR:HG22	1:K:209:GLU:N	2.09	0.67
5:P:367:MET:HA	5:P:370:LYS:CD	2.23	0.67
3:N:481:MET:O	3:N:489:ARG:HB2	1.94	0.67
2:C:1095:LEU:C	2:C:1097:LEU:H	1.98	0.67
2:C:1050:GLN:NE2	3:D:1469:GLY:O	2.27	0.67
3:D:79:GLU:HG2	3:D:80:VAL:H	1.58	0.67
5:P:274:THR:HG21	5:P:295:MET:HE2	1.74	0.67
3:D:724:GLN:HG2	3:D:724:GLN:O	1.95	0.67
2:M:186:VAL:HG23	2:M:187:ASN:H	1.60	0.67
3:D:1109:GLU:HG2	3:D:1201:CYS:CA	2.25	0.67
3:N:387:LEU:HD23	3:N:388:HIS:N	2.10	0.67
2:C:595:LEU:HD13	2:C:639:GLN:OE1	1.95	0.67
3:N:705:ALA:CB	3:N:706:PRO:HD3	2.23	0.67
2:M:577:PRO:HA	2:M:671:ASN:HD21	1.60	0.67
3:D:222:GLY:HA2	3:D:365:ASP:O	1.94	0.67
1:K:25:LEU:HD22	1:L:225:PHE:CZ	2.29	0.67
3:N:1468:LEU:HD22	3:N:1470:ARG:HB2	1.77	0.67
3:D:959:GLU:HB2	3:D:963:TYR:CE1	2.30	0.67
2:M:927:GLY:HA2	2:M:930:LYS:NZ	2.10	0.67
3:D:116:LEU:HD23	3:D:468:LEU:HD11	1.77	0.67
3:D:1020:LEU:HD12	3:D:1023:MET:CE	2.25	0.67
3:N:701:LEU:HD21	3:N:763:MET:HE1	1.77	0.67
2:C:1032:PHE:CZ	2:C:1040:LEU:HD22	2.28	0.67
3:N:12:LEU:HD21	3:N:104:PHE:CZ	2.30	0.67
3:D:828:LYS:H	3:D:828:LYS:HD3	1.60	0.67
5:F:291:ILE:HG21	5:F:304:VAL:HG11	1.76	0.66
3:D:709:HIS:ND1	3:D:1231:GLU:HG3	2.10	0.66
3:N:592:THR:HG23	3:N:600:LEU:HD22	1.77	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1118:ILE:HG23	3:N:1346:ARG:HE	1.60	0.66
5:F:287:THR:HG22	5:F:290:GLU:CD	2.15	0.66
3:D:1109:GLU:CG	3:D:1201:CYS:HB2	2.25	0.66
5:P:367:MET:O	5:P:371:LEU:HG	1.94	0.66
3:D:795:VAL:HG12	3:D:796:ARG:N	2.09	0.66
1:A:213:GLN:O	1:A:217:ILE:HG13	1.95	0.66
3:N:154:THR:HG22	3:N:155:ASP:H	1.59	0.66
2:C:838:LYS:HG3	2:C:997:LEU:HB2	1.77	0.66
1:A:189:ARG:HD3	1:A:191:ASP:OD1	1.95	0.66
2:C:495:THR:CG2	2:C:517:ARG:HE	2.08	0.66
2:C:854:PRO:HB2	2:C:856:GLU:HG2	1.78	0.66
2:C:338:GLU:HA	2:C:341:THR:HG22	1.78	0.66
3:D:186:VAL:HG21	3:D:213:VAL:N	2.11	0.66
2:M:573:ARG:O	2:M:574:ALA:O	2.13	0.66
3:D:542:ASP:O	3:D:546:ARG:HG2	1.95	0.66
1:A:18:ARG:HH12	1:A:88:ARG:CZ	2.09	0.66
3:D:1310:ARG:NE	3:D:1327:ARG:HB3	2.10	0.66
3:D:704:ARG:CD	3:D:705:ALA:H	2.09	0.66
3:N:245:LEU:HD11	3:N:248:PRO:HG2	1.76	0.66
1:K:183:ASP:OD1	2:M:938:LYS:HE3	1.95	0.66
3:D:551:ASN:O	3:D:554:LEU:HB3	1.94	0.66
3:D:1155:VAL:HG21	3:D:1183:ILE:HD11	1.75	0.66
3:N:1314:LYS:NZ	3:N:1317:ASP:OD2	2.27	0.66
5:P:88:ILE:CG2	5:P:193:ARG:HH11	2.08	0.66
3:N:699:VAL:HA	3:N:718:PRO:HD3	1.77	0.66
1:K:91:ASN:CG	1:K:92:PRO:HD2	2.15	0.66
3:N:1046:GLN:HE22	3:N:1050:GLY:HA2	1.61	0.66
5:F:194:LEU:HD13	5:F:194:LEU:O	1.95	0.66
2:C:139:GLN:OE1	2:C:415:PRO:HD3	1.95	0.66
3:D:131:LYS:HG3	3:D:568:ARG:CG	2.23	0.66
1:K:143:ARG:O	1:K:144:VAL:HG23	1.94	0.66
3:N:771:SER:HB2	3:N:778:LEU:HD22	1.76	0.66
5:P:134:LYS:HB2	5:P:178:ARG:NH1	2.11	0.66
5:F:133:ALA:HA	5:F:136:LEU:CD1	2.25	0.66
3:N:1114:THR:OG1	3:N:1195:GLN:HB2	1.95	0.66
2:M:199:VAL:HG21	2:M:238:LEU:HD12	1.77	0.66
3:N:584:ASN:ND2	3:N:590:PRO:HD2	2.10	0.66
1:A:101:LEU:HD11	1:A:109:VAL:HG13	1.77	0.66
3:D:630:VAL:HA	3:D:744:GLN:HG2	1.77	0.66
5:F:371:LEU:HA	5:F:375:LEU:H	1.59	0.66
2:C:599:GLU:HG2	2:C:600:ASP:N	2.09	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:115:LEU:O	1:A:115:LEU:HD12	1.96	0.66
2:C:29:ALA:O	2:C:44:ILE:HD13	1.95	0.66
2:M:432:ARG:HH22	3:N:1047:LYS:CD	2.02	0.66
3:D:493:ARG:NH2	3:D:1389:LEU:HD11	2.10	0.66
5:P:368:VAL:O	5:P:371:LEU:HB2	1.94	0.66
2:M:610:ARG:HG3	2:M:610:ARG:HH11	1.60	0.66
5:P:77:THR:C	5:P:80:PRO:HD2	2.16	0.66
5:P:93:LEU:HD13	5:P:99:GLU:HG2	1.78	0.66
2:C:607:ASP:HB2	2:C:610:ARG:HG3	1.78	0.66
1:A:39:PRO:HG3	1:B:39:PRO:HG3	1.76	0.66
4:E:54:LEU:HG	4:E:58:PRO:HB2	1.78	0.66
1:K:43:ILE:HD11	1:L:35:THR:HG21	1.75	0.66
2:C:395:LYS:CE	2:C:407:LYS:HZ2	2.09	0.66
2:M:451:LEU:O	2:M:452:ILE:HG23	1.95	0.66
3:D:1033:GLN:OE1	3:D:1036:ARG:NH1	2.28	0.66
3:D:1209:LEU:HD23	3:D:1210:SER:H	1.60	0.66
2:C:417:GLY:O	2:C:418:LEU:HD13	1.95	0.66
3:D:947:ILE:HG13	3:D:947:ILE:O	1.96	0.66
3:N:422:ALA:HB3	3:N:427:VAL:CG2	2.26	0.66
3:N:426:LYS:NZ	5:P:138:SER:HA	2.10	0.66
3:N:777:PRO:HG2	3:N:912:LYS:O	1.95	0.66
5:F:136:LEU:CD1	5:F:137:GLY:H	2.07	0.66
5:F:137:GLY:HA2	5:F:140:ARG:NH2	2.11	0.66
2:M:1056:LYS:HE3	3:N:751:LEU:HG	1.76	0.66
3:N:493:ARG:HE	3:N:1389:LEU:HD21	1.61	0.66
1:B:175:ARG:NH1	1:B:202:ASP:HB3	2.09	0.66
3:N:98:PRO:HG3	3:N:515:GLU:HB3	1.78	0.66
3:D:1192:LEU:HD22	3:D:1345:GLU:CD	2.15	0.66
2:M:252:LYS:HE2	2:M:296:GLY:CA	2.26	0.66
2:C:1049:LEU:O	2:C:1053:LEU:HD23	1.95	0.66
2:C:768:THR:HB	2:C:771:GLU:HB3	1.77	0.66
2:C:673:LEU:CD2	2:C:867:VAL:HA	2.15	0.66
2:C:857:ASP:O	2:C:978:ARG:HG3	1.96	0.66
3:N:195:VAL:O	3:N:205:TYR:HD1	1.79	0.66
2:M:21:ILE:CD1	2:M:21:ILE:H	2.08	0.66
2:C:508:ILE:HG21	2:C:513:VAL:HG21	1.78	0.66
5:F:291:ILE:HD13	5:F:304:VAL:CG1	2.25	0.66
2:M:302:VAL:O	2:M:305:PRO:HD2	1.95	0.66
2:C:129:ILE:HG22	2:C:130:ASN:CG	2.16	0.66
3:N:162:ARG:HG3	3:N:434:ARG:CZ	2.26	0.66
3:D:761:ILE:CD1	4:E:23:VAL:HG11	2.25	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:661:MET:CE	3:D:673:ALA:HB1	2.26	0.66
3:N:1115:THR:HG22	3:N:1151:ARG:HH21	1.60	0.66
3:D:704:ARG:HD2	3:D:705:ALA:H	1.60	0.66
2:C:1095:LEU:HG	3:D:603:LEU:HD13	1.78	0.66
3:N:74:GLU:HB3	3:N:75:ARG:NH2	2.11	0.66
5:F:358:LEU:HD11	5:F:370:LYS:HZ1	1.61	0.66
3:N:957:PRO:HG3	3:N:1007:VAL:HA	1.78	0.66
3:N:1158:VAL:HG12	3:N:1159:ARG:N	2.11	0.66
3:N:1205:TYR:CE1	3:N:1221:VAL:HG11	2.30	0.66
2:C:102:HIS:C	2:C:104:ASP:H	1.98	0.66
2:M:606:VAL:HG22	2:M:645:VAL:HG13	1.77	0.66
3:D:498:VAL:O	3:D:501:ALA:HB3	1.96	0.66
1:B:57:TYR:CE1	1:B:163:ASN:HB2	2.31	0.66
3:N:885:ILE:HD13	3:N:937:TYR:CG	2.31	0.66
5:F:157:GLU:O	5:F:161:GLN:HG3	1.96	0.65
3:D:584:ASN:ND2	3:D:590:PRO:CD	2.56	0.65
2:C:101:ILE:HG23	2:C:107:LEU:HD22	1.77	0.65
3:D:1150:ALA:HB3	3:D:1187:PRO:HB2	1.78	0.65
2:M:838:LYS:HD3	2:M:846:LYS:NZ	2.10	0.65
2:M:300:ASP:HB2	2:M:303:PHE:HB2	1.76	0.65
2:M:605:LYS:CB	2:M:610:ARG:HH12	2.09	0.65
2:C:397:GLU:H	2:C:633:GLN:CD	1.99	0.65
2:C:964:LYS:HG2	2:C:968:LEU:CD1	2.26	0.65
3:N:468:LEU:HD12	3:N:468:LEU:O	1.96	0.65
1:K:59:GLU:HG3	1:K:60:ASP:N	2.11	0.65
3:N:416:ALA:H	3:N:417:PRO:CD	2.07	0.65
3:N:1252:ILE:H	3:N:1252:ILE:HD12	1.62	0.65
3:D:788:GLY:O	3:D:792:ILE:HG22	1.96	0.65
1:A:1:MET:HB2	1:A:6:LEU:HB2	1.79	0.65
2:C:575:GLN:HA	2:C:662:GLU:OE2	1.96	0.65
2:C:969:GLN:NE2	2:C:971:LYS:HE2	2.12	0.65
3:N:76:CYS:SG	3:N:78:VAL:HG23	2.36	0.65
2:C:202:TYR:OH	2:C:304:LEU:HD22	1.96	0.65
3:D:1145:TYR:CD2	3:D:1146:GLY:N	2.64	0.65
3:D:792:ILE:HD12	3:D:941:PHE:CE1	2.31	0.65
3:N:1372:VAL:HA	3:N:1375:MET:CE	2.27	0.65
3:D:74:GLU:HB2	3:D:75:ARG:NH1	2.12	0.65
2:M:1091:GLU:O	2:M:1094:ALA:HB3	1.96	0.65
3:N:657:LEU:HG	3:N:661:MET:CE	2.26	0.65
3:N:1147:ARG:HB2	3:N:1166:LEU:HD21	1.79	0.65
1:A:62:LEU:HD12	1:A:62:LEU:N	2.07	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:41:ARG:O	1:K:45:LEU:HD12	1.95	0.65
2:M:100:LEU:O	2:M:101:ILE:HD13	1.96	0.65
2:M:146:VAL:CG1	2:M:162:ILE:HG12	2.26	0.65
2:C:588:VAL:CG2	2:C:589:ARG:N	2.60	0.65
1:L:176:ARG:HH22	3:N:884:ARG:CD	2.10	0.65
2:C:1074:GLU:HG2	2:C:1075:ASP:H	1.62	0.65
3:D:754:PHE:O	3:D:757:ALA:HB3	1.96	0.65
2:M:603:VAL:HG23	2:M:647:GLN:O	1.97	0.65
2:M:1089:VAL:HG13	2:M:1099:VAL:CG2	2.26	0.65
5:P:415:THR:HG22	5:P:417:LYS:HG3	1.78	0.65
2:C:239:PHE:HE2	2:C:253:ALA:HB3	1.61	0.65
3:D:1422:MET:CE	3:D:1426:LYS:HG2	2.27	0.65
2:C:461:VAL:CG1	2:C:465:GLY:HA2	2.27	0.65
2:C:534:VAL:N	2:C:538:GLN:NE2	2.45	0.65
1:B:87:VAL:HG12	1:B:122:ILE:HG12	1.78	0.65
2:M:263:ASP:HB2	2:M:264:PRO:HD3	1.79	0.65
3:D:1309:ALA:HB1	3:D:1326:THR:HG23	1.78	0.65
2:M:18:LEU:HA	2:M:408:ARG:HH21	1.62	0.65
2:C:1008:ARG:HG2	2:C:1009:SER:N	2.11	0.65
3:D:1123:PHE:HE2	3:D:1184:GLN:HA	1.60	0.65
3:N:1282:ARG:HB3	3:N:1282:ARG:CZ	2.27	0.65
3:D:202:VAL:O	3:D:204:LEU:HG	1.96	0.65
1:K:64:GLU:HG2	1:K:64:GLU:O	1.97	0.65
5:F:402:ASN:O	5:F:406:ARG:HG3	1.97	0.65
3:D:145:VAL:CG2	3:D:146:PRO:HD2	2.18	0.65
3:D:969:ARG:CB	3:D:969:ARG:HH11	2.02	0.65
1:A:206:THR:CB	1:A:209:GLU:HG3	2.24	0.65
3:D:705:ALA:CB	3:D:706:PRO:CD	2.75	0.65
5:F:358:LEU:HD11	5:F:370:LYS:NZ	2.10	0.65
3:N:770:LEU:HD11	3:N:919:PHE:CD2	2.32	0.65
3:D:785:ILE:HD11	3:D:935:LYS:HA	1.77	0.65
4:O:40:LEU:HD12	4:O:40:LEU:O	1.96	0.65
1:A:9:PRO:HD2	1:B:224:TYR:CE1	2.32	0.65
3:N:387:LEU:CG	5:P:97:GLU:HG2	2.27	0.65
3:N:644:LEU:HD12	3:N:645:PRO:CD	2.25	0.65
3:N:584:ASN:CG	3:N:590:PRO:HD2	2.16	0.65
3:N:975:GLU:OE1	3:N:988:ARG:NH1	2.29	0.65
5:F:256:ARG:NH2	5:F:260:ILE:HB	2.12	0.65
2:C:1056:LYS:HD3	3:D:623:VAL:HG13	1.78	0.65
3:N:732:VAL:HB	3:N:736:PHE:CE1	2.29	0.65
3:D:368:VAL:HG12	3:D:369:ALA:N	2.12	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:266:ARG:HD2	2:M:266:ARG:N	2.09	0.65
2:C:930:LYS:HD3	2:C:960:GLU:OE1	1.96	0.65
3:D:8:VAL:HG12	3:D:9:ARG:N	2.12	0.65
3:N:1155:VAL:HG11	3:N:1183:ILE:HD11	1.78	0.65
2:M:480:THR:HG21	2:M:482:GLU:HB3	1.79	0.65
4:O:41:GLU:H	4:O:42:PRO:HD2	1.61	0.65
3:D:796:ARG:C	3:D:797:LYS:HG3	2.17	0.65
1:L:154:GLU:CD	3:N:840:LYS:HG3	2.17	0.65
3:D:561:GLY:HA3	5:F:184:ARG:HH22	1.62	0.65
1:L:206:THR:HG22	1:L:209:GLU:H	1.62	0.65
2:C:358:ARG:HB3	2:C:372:LEU:HD12	1.79	0.65
3:D:108:VAL:CB	3:D:109:PRO:HD3	2.17	0.65
3:D:25:GLU:HB2	3:D:92:HIS:CE1	2.32	0.65
5:F:94:LEU:HD13	5:F:95:THR:N	2.12	0.65
3:D:914:LEU:C	3:D:914:LEU:HD23	2.16	0.65
3:N:122:GLU:O	3:N:126:VAL:HB	1.97	0.65
3:D:119:SER:HB2	3:D:123:LEU:HB2	1.80	0.65
3:D:1396:GLU:C	3:D:1398:TRP:H	2.00	0.65
3:D:373:PRO:HB2	3:D:374:GLU:OE1	1.97	0.65
3:D:642:CYS:HB3	3:D:716:PHE:CB	2.27	0.65
3:D:1046:GLN:HE21	3:D:1052:THR:HG22	1.61	0.65
3:D:1064:GLY:O	3:D:1066:THR:N	2.30	0.65
3:D:561:GLY:HA3	5:F:184:ARG:HH12	1.62	0.65
2:M:805:ARG:HG3	2:M:823:VAL:HG22	1.78	0.65
2:M:62:GLY:O	2:M:103:LYS:HG3	1.96	0.65
3:D:1256:LEU:HB3	3:D:1257:PRO:HD3	1.79	0.65
2:C:675:ALA:HB2	2:C:867:VAL:HG11	1.78	0.64
2:M:1054:THR:HG21	2:M:1079:PRO:HB3	1.78	0.64
2:C:417:GLY:C	2:C:418:LEU:HD22	2.17	0.64
2:C:49:ARG:HH11	2:C:49:ARG:CB	2.10	0.64
3:N:1189:ARG:NE	3:N:1204:CYS:SG	2.69	0.64
3:D:177:ALA:C	3:D:199:LEU:HD13	2.18	0.64
3:N:119:SER:O	3:N:121:THR:N	2.30	0.64
2:C:516:ARG:HH11	2:C:521:PRO:HA	1.61	0.64
3:D:658:LEU:O	3:D:661:MET:HB2	1.97	0.64
2:C:480:THR:HG21	2:C:482:GLU:HB3	1.79	0.64
3:D:1428:ALA:O	3:D:1431:THR:HG23	1.96	0.64
3:N:1057:VAL:HG13	3:N:1069:GLU:OE2	1.97	0.64
5:F:277:GLN:O	5:F:280:GLN:HB3	1.97	0.64
2:C:395:LYS:HE3	2:C:407:LYS:NZ	2.12	0.64
3:D:1451:ALA:O	3:D:1454:GLY:N	2.28	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:332:ARG:CZ	2:M:464:LEU:HD11	2.27	0.64
3:D:1146:GLY:CA	3:D:1207:TYR:HB2	2.26	0.64
3:D:1189:ARG:HB3	3:D:1189:ARG:HH11	1.60	0.64
3:N:522:PRO:HA	3:N:525:ARG:NH1	2.12	0.64
2:M:139:GLN:NE2	2:M:415:PRO:HD3	2.02	0.64
5:P:94:LEU:HD13	5:P:95:THR:N	2.13	0.64
4:E:45:ARG:HB3	4:E:46:PRO:HD2	1.78	0.64
4:E:45:ARG:HH22	4:E:72:ARG:HH22	1.44	0.64
3:N:773:ALA:O	3:N:774:SER:HB3	1.98	0.64
3:D:486:ARG:HA	3:D:489:ARG:HD3	1.79	0.64
5:F:350:LEU:CD1	5:F:422:LEU:HD12	2.26	0.64
3:N:1378:TYR:O	3:N:1420:LEU:HB3	1.97	0.64
3:D:864:VAL:HG12	3:D:865:THR:H	1.63	0.64
2:M:1005:MET:CB	3:N:629:SER:HB2	2.27	0.64
3:N:1271:LYS:HZ1	3:N:1334:GLN:HE22	1.45	0.64
2:M:332:ARG:NH1	2:M:464:LEU:HD21	2.12	0.64
2:M:1044:GLY:C	2:M:1046:ALA:H	1.99	0.64
3:N:166:GLN:HB3	3:N:395:VAL:HG23	1.79	0.64
1:L:2:LEU:HD12	1:L:3:ASP:H	1.61	0.64
3:D:876:SER:OG	3:D:879:ARG:HG3	1.97	0.64
3:D:385:VAL:HG13	3:D:385:VAL:O	1.97	0.64
3:N:1209:LEU:HD13	3:N:1215:VAL:HA	1.79	0.64
3:D:477:LEU:HA	3:D:480:GLU:CB	2.25	0.64
3:N:890:VAL:HG23	3:N:890:VAL:O	1.97	0.64
2:C:1111:ILE:HG13	2:C:1112:PHE:N	2.12	0.64
3:D:554:LEU:HD23	3:D:574:LEU:HD22	1.79	0.64
3:D:32:ILE:HD12	3:D:527:MET:HG2	1.79	0.64
3:N:536:ALA:HB2	5:P:315:VAL:CG1	2.27	0.64
3:D:739:ASP:OD1	3:D:743:ASP:OD2	2.16	0.64
2:C:153:ALA:O	2:C:155:PRO:HD3	1.97	0.64
4:O:39:VAL:HG22	4:O:67:GLU:OE2	1.97	0.64
3:N:434:ARG:HG2	3:N:447:VAL:HG21	1.79	0.64
3:D:790:TYR:CE1	3:D:1022:VAL:HG13	2.32	0.64
2:M:693:GLU:HA	2:M:696:LYS:CD	2.24	0.64
2:M:325:ILE:N	2:M:325:ILE:HD12	2.03	0.64
4:E:54:LEU:CG	4:E:58:PRO:HG2	2.27	0.64
1:A:99:LEU:N	1:A:99:LEU:HD12	2.12	0.64
3:D:853:VAL:HA	3:D:858:VAL:O	1.98	0.64
3:N:1324:PRO:HG3	3:N:1330:ILE:HD11	1.78	0.64
3:D:1063:GLU:CG	3:D:1064:GLY:H	2.09	0.64
2:M:1090:LYS:HE2	2:M:1090:LYS:HA	1.79	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:458:TYR:HB3	2:C:470:PRO:HG2	1.79	0.64
3:N:428:LYS:CE	3:N:451:ASP:HB3	2.27	0.64
3:N:543:LEU:O	3:N:546:ARG:HB2	1.97	0.64
2:C:722:ILE:CD1	2:C:823:VAL:HG21	2.27	0.64
1:L:91:ASN:O	1:L:94:LEU:HD12	1.97	0.64
2:M:571:LEU:HD12	2:M:571:LEU:N	2.13	0.64
3:D:378:ILE:N	3:D:378:ILE:HD13	2.09	0.64
3:D:1151:ARG:HA	3:D:1162:GLU:CG	2.26	0.64
3:D:373:PRO:HG2	3:D:374:GLU:H	1.62	0.64
3:D:159:ARG:HB2	3:D:159:ARG:HH11	1.59	0.64
2:M:759:THR:HB	2:M:785:VAL:HG11	1.78	0.64
5:P:401:GLU:O	5:P:405:LEU:HB3	1.97	0.64
1:L:176:ARG:HH12	3:N:884:ARG:HD3	1.61	0.64
2:C:1067:TYR:CG	5:F:341:PRO:HB3	2.32	0.64
1:K:189:ARG:NH1	1:L:155:LYS:NZ	2.45	0.64
3:D:93:ILE:CD1	3:D:548:ILE:HD11	2.27	0.64
4:E:48:MET:HB2	4:E:54:LEU:HB2	1.78	0.64
3:D:1326:THR:HG22	3:D:1327:ARG:N	2.12	0.64
2:M:291:ALA:O	2:M:292:ARG:HB2	1.98	0.64
3:D:1167:SER:O	3:D:1171:VAL:HG23	1.98	0.64
3:D:616:GLN:CA	3:D:619:LEU:HB3	2.27	0.64
1:A:70:GLY:H	2:C:607:ASP:CG	2.00	0.64
1:A:35:THR:HG21	1:B:43:ILE:CD1	2.24	0.64
2:M:207:LEU:HD22	2:M:221:LEU:HD22	1.78	0.64
3:D:598:ARG:HD2	3:D:599:PRO:HD2	1.78	0.64
3:N:245:LEU:HD12	3:N:249:TYR:HB2	1.79	0.64
1:K:224:TYR:HB3	1:L:9:PRO:HB2	1.79	0.64
3:D:1474:ALA:O	3:D:1477:GLY:N	2.31	0.64
1:K:59:GLU:CG	1:K:60:ASP:H	2.07	0.64
5:P:295:MET:HA	5:P:295:MET:CE	2.26	0.64
3:D:1007:VAL:HG23	3:D:1008:PHE:N	2.13	0.64
2:C:1083:GLU:O	2:C:1087:VAL:HG23	1.98	0.64
1:B:122:ILE:HG22	1:B:124:ASN:H	1.63	0.64
1:B:86:VAL:HG13	1:B:123:MET:HB2	1.78	0.64
3:D:661:MET:HE3	3:D:673:ALA:HB1	1.79	0.64
3:N:225:LEU:HD22	3:N:440:VAL:HG21	1.80	0.64
5:P:163:LEU:HD13	5:P:174:LEU:CD2	2.27	0.64
3:N:1434:TRP:HZ3	3:N:1457:ASP:H	1.44	0.64
2:C:111:ASP:O	2:C:113:VAL:HG23	1.98	0.64
3:N:642:CYS:O	3:N:642:CYS:SG	2.56	0.64
2:M:676:ILE:HG22	2:M:988:VAL:O	1.97	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1155:VAL:HG11	3:D:1183:ILE:HD11	1.79	0.64
2:C:442:GLU:OE2	2:C:543:ASN:HB2	1.98	0.64
3:N:1372:VAL:HG13	3:N:1375:MET:HE2	1.79	0.64
1:L:197:LEU:C	1:L:197:LEU:HD23	2.18	0.64
2:C:441:VAL:O	2:C:559:LEU:HD13	1.98	0.64
1:K:53:VAL:HG21	1:K:82:LEU:O	1.98	0.64
5:P:139:ALA:HB1	5:P:152:ASP:CB	2.28	0.64
2:M:766:GLU:HB3	3:N:54:LYS:HZ1	1.60	0.64
2:C:1058:ASP:HB2	3:D:621:LYS:NZ	2.13	0.64
3:D:1020:LEU:HD21	3:D:1038:LEU:HD13	1.80	0.64
1:A:173:PRO:O	1:A:201:THR:HG23	1.97	0.64
1:B:23:PHE:HB2	1:B:197:LEU:HD21	1.78	0.64
2:M:18:LEU:CA	2:M:408:ARG:NH2	2.58	0.64
2:C:97:ARG:NH2	2:C:109:LYS:HD2	2.13	0.64
1:B:152:PRO:CD	1:B:155:LYS:HD2	2.25	0.64
3:D:1476:THR:CG2	4:E:21:VAL:HG22	2.27	0.64
1:B:59:GLU:HG3	1:B:60:ASP:H	1.62	0.64
3:D:32:ILE:O	5:F:258:ILE:HG23	1.97	0.64
2:M:480:THR:CG2	2:M:482:GLU:HB3	2.27	0.64
5:P:325:LYS:HD2	5:P:326:ASP:OD2	1.98	0.64
3:D:1264:GLU:HG2	3:D:1266:ARG:NH2	2.13	0.63
2:M:192:PRO:O	2:M:195:LEU:HB3	1.98	0.63
3:D:149:LYS:HD3	3:D:149:LYS:H	1.63	0.63
1:L:58:ILE:HD13	1:L:140:MET:CB	2.28	0.63
1:L:100:LEU:HB2	1:L:115:LEU:HD11	1.81	0.63
2:C:1016:ILE:CD1	2:C:1016:ILE:H	1.83	0.63
2:C:607:ASP:HB2	2:C:610:ARG:NH1	2.13	0.63
3:D:129:PHE:CD2	3:D:587:ARG:CZ	2.82	0.63
3:D:994:GLN:O	3:D:998:GLU:HG3	1.98	0.63
2:M:110:GLU:HG2	2:M:369:PRO:HG3	1.80	0.63
2:M:926:PHE:O	2:M:929:ARG:HB2	1.97	0.63
3:D:1472:ILE:O	3:D:1477:GLY:HA3	1.97	0.63
3:D:1441:GLN:HA	3:D:1441:GLN:NE2	2.14	0.63
3:N:686:GLU:HA	3:N:689:ASP:OD2	1.98	0.63
3:N:1147:ARG:CB	3:N:1188:VAL:HG21	2.16	0.63
3:N:798:GLU:HB2	3:N:828:LYS:HG2	1.80	0.63
3:N:1462:LEU:HD23	3:N:1473:PRO:HD2	1.80	0.63
3:D:1046:GLN:CB	3:D:1052:THR:HA	2.28	0.63
3:D:72:VAL:CG1	3:D:73:CYS:N	2.61	0.63
5:F:278:LEU:HB3	5:F:286:PRO:HG2	1.80	0.63
3:D:1363:LEU:HD12	3:D:1364:HIS:O	1.98	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:151:VAL:HG22	1:K:155:LYS:NZ	2.14	0.63
2:C:535:SER:O	2:C:538:GLN:HG2	1.97	0.63
1:B:221:HIS:HA	1:B:224:TYR:HD2	1.63	0.63
3:N:374:GLU:HB3	3:N:385:VAL:O	1.98	0.63
3:D:996:TRP:NE1	3:D:1056:PRO:HG2	2.12	0.63
2:M:946:ARG:O	2:M:950:LEU:HB2	1.99	0.63
1:L:103:ALA:O	1:L:104:GLU:HG3	1.98	0.63
3:N:1432:LYS:CD	3:N:1432:LYS:H	2.12	0.63
3:D:770:LEU:HG	3:D:919:PHE:HE1	1.63	0.63
3:D:807:ALA:HB2	3:D:833:GLU:CB	2.28	0.63
3:D:809:PRO:HB2	3:D:812:ALA:CB	2.29	0.63
3:N:656:PHE:HB3	3:N:694:VAL:HG11	1.80	0.63
2:M:595:LEU:HD21	2:M:623:TYR:HB3	1.81	0.63
1:L:33:GLY:HA2	1:L:195:LEU:HB2	1.81	0.63
2:C:12:VAL:HG22	2:C:13:ILE:HG23	1.80	0.63
2:M:1016:ILE:CD1	2:M:1016:ILE:H	1.95	0.63
3:N:133:ILE:HD13	3:N:454:ALA:HB1	1.80	0.63
1:K:58:ILE:HD13	1:K:140:MET:CB	2.29	0.63
3:D:965:GLU:HG3	3:D:969:ARG:HH22	1.62	0.63
1:B:89:PHE:HB3	1:B:94:LEU:HD22	1.79	0.63
3:D:1121:PRO:C	3:D:1122:LEU:HD12	2.19	0.63
3:N:806:PHE:O	3:N:808:THR:N	2.32	0.63
1:B:221:HIS:HA	1:B:224:TYR:CD2	2.34	0.63
1:B:23:PHE:HB2	1:B:197:LEU:CD2	2.28	0.63
3:D:1280:VAL:HG12	3:D:1281:VAL:N	2.12	0.63
3:N:645:PRO:HG2	3:N:724:GLN:O	1.99	0.63
3:N:699:VAL:H	3:N:756:GLN:NE2	1.96	0.63
3:D:678:GLU:HG3	3:D:679:ARG:HG3	1.81	0.63
2:C:835:VAL:HG22	2:C:836:GLY:N	2.14	0.63
2:M:54:ILE:CG2	2:M:66:LEU:HB3	2.28	0.63
3:D:895:VAL:O	3:D:899:LEU:HD12	1.98	0.63
3:D:141:ILE:CD1	3:D:141:ILE:H	1.90	0.63
3:N:1109:GLU:HB3	3:N:1201:CYS:HA	1.81	0.63
3:D:1389:LEU:H	3:D:1389:LEU:CD2	2.11	0.63
1:A:38:ASN:HB3	1:A:39:PRO:HD3	1.80	0.63
3:D:660:LYS:HD2	3:D:663:GLU:OE2	1.98	0.63
1:K:54:THR:O	1:K:55:SER:HB2	1.96	0.63
3:N:915:VAL:O	3:N:918:ALA:HB3	1.99	0.63
5:P:406:ARG:HG2	5:P:409:LYS:HE2	1.80	0.63
3:D:231:VAL:HA	3:D:378:ILE:HG13	1.80	0.63
1:A:182:GLU:O	1:A:194:LYS:HB3	1.99	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:153:ALA:HA	1:B:156:HIS:NE2	2.13	0.63
3:N:1432:LYS:HD2	3:N:1432:LYS:N	2.14	0.63
1:A:44:LEU:HA	1:A:48:ILE:CD1	2.29	0.63
2:M:919:ALA:HA	2:M:968:LEU:HD21	1.79	0.63
2:C:736:ASP:C	2:C:738:ASP:H	2.01	0.63
2:C:744:ARG:NE	2:C:747:ALA:HB2	2.13	0.63
3:N:1364:HIS:ND1	3:N:1366:LYS:HG3	2.14	0.63
2:C:196:LEU:HA	2:C:199:VAL:HG23	1.81	0.63
5:F:239:ALA:O	5:F:243:ILE:HG13	1.99	0.63
2:C:1118:LYS:HA	3:D:23:TYR:CZ	2.34	0.63
3:N:1047:LYS:HA	3:N:1053:PHE:CE1	2.34	0.63
2:C:904:PRO:HB2	2:C:907:ASP:O	1.98	0.63
2:C:443:THR:CG2	2:C:450:GLY:H	2.10	0.63
1:A:94:LEU:HD23	1:A:97:VAL:HG21	1.81	0.63
2:M:579:VAL:HG11	2:M:887:GLU:HG3	1.81	0.63
3:N:1114:THR:CB	3:N:1195:GLN:HB2	2.29	0.63
3:N:475:LYS:O	3:N:478:LEU:HB2	1.98	0.63
3:D:596:SER:C	3:D:598:ARG:H	2.00	0.63
1:L:68:ILE:O	1:L:71:VAL:HB	1.98	0.63
3:D:34:TYR:OH	5:F:264:MET:HG3	1.99	0.63
3:N:1110:ALA:O	3:N:1111:ASP:C	2.36	0.63
1:B:23:PHE:CZ	1:B:208:LEU:HA	2.34	0.63
2:M:433:THR:HG22	2:M:488:ALA:HB1	1.79	0.63
1:K:175:ARG:O	1:K:176:ARG:HB3	1.99	0.63
3:D:728:LEU:CD2	3:D:745:MET:HE1	2.29	0.63
3:N:210:ARG:HH11	3:N:398:ALA:HB3	1.63	0.63
1:K:109:VAL:O	1:K:129:ILE:HB	1.99	0.63
3:D:1063:GLU:HG2	3:D:1064:GLY:H	1.63	0.63
2:M:769:PRO:HB2	3:N:65:ARG:HH12	1.64	0.63
2:M:1025:ALA:HB3	2:M:1026:GLN:NE2	2.14	0.63
2:C:569:VAL:O	2:C:571:LEU:HD12	1.99	0.62
2:M:1018:GLN:HG3	2:M:1060:ILE:HD11	1.81	0.62
5:P:132:ARG:NH2	5:P:184:ARG:HH12	1.97	0.62
1:L:137:ARG:HG2	1:L:137:ARG:HH11	1.64	0.62
2:M:857:ASP:HA	2:M:977:GLY:HA3	1.80	0.62
3:N:1159:ARG:HG3	3:N:1159:ARG:O	1.98	0.62
3:D:500:ARG:HH22	3:D:1388:ARG:NH1	1.97	0.62
3:N:896:ALA:O	3:N:899:LEU:HD12	1.99	0.62
5:P:151:LEU:HB2	5:P:155:THR:OG1	1.99	0.62
3:D:247:GLU:H	3:D:248:PRO:HD2	1.64	0.62
2:C:725:ASP:C	2:C:727:PRO:HD3	2.19	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:259:GLY:HA2	2:C:290:LEU:O	1.99	0.62
3:D:179:VAL:HG13	3:D:389:GLU:OE2	1.99	0.62
3:D:133:ILE:HG12	3:D:454:ALA:HB1	1.81	0.62
3:N:1213:ARG:HB2	3:N:1214:PRO:CD	2.26	0.62
2:C:101:ILE:HD12	2:C:107:LEU:HD22	1.81	0.62
3:N:139:GLY:HA3	3:N:452:ILE:HD13	1.81	0.62
2:M:15:LEU:HB2	2:M:586:ARG:NH1	2.10	0.62
2:C:964:LYS:O	2:C:968:LEU:HD12	1.99	0.62
3:N:892:ASP:HB3	3:N:895:VAL:CG2	2.29	0.62
3:D:629:SER:O	3:D:744:GLN:HB3	2.00	0.62
2:C:671:ASN:ND2	2:C:993:PHE:HD2	1.97	0.62
3:D:1145:TYR:HD2	3:D:1146:GLY:N	1.96	0.62
2:C:553:ASP:HA	2:C:881:ASN:HA	1.82	0.62
2:C:683:ASN:HA	2:C:687:ALA:HB3	1.81	0.62
3:N:430:ASP:HB3	3:N:432:TYR:CE2	2.33	0.62
3:N:792:ILE:CD1	3:N:881:LEU:HD23	2.29	0.62
3:D:1023:MET:O	3:D:1028:ALA:HB3	1.99	0.62
2:C:580:MET:O	2:C:902:ILE:HA	1.99	0.62
5:F:393:THR:HG22	5:F:394:ARG:N	2.10	0.62
2:M:886:LEU:CD1	3:N:951:ILE:HG13	2.29	0.62
1:B:156:HIS:CD2	1:B:157:GLY:H	2.17	0.62
5:P:420:ASP:O	5:P:422:LEU:N	2.31	0.62
2:M:859:PRO:O	2:M:867:VAL:HG22	2.00	0.62
3:N:767:HIS:CD2	4:O:6:ILE:HG12	2.35	0.62
3:N:23:TYR:O	3:N:24:GLY:O	2.17	0.62
3:N:1437:ALA:HB3	3:N:1446:VAL:HG11	1.80	0.62
2:M:543:ASN:HD22	2:M:562:SER:HB3	1.64	0.62
1:K:127:LEU:HD12	1:K:128:HIS:N	2.13	0.62
2:C:252:LYS:HE2	2:C:296:GLY:HA2	1.81	0.62
2:M:208:ALA:HB1	2:M:222:MET:HE2	1.81	0.62
2:M:1094:ALA:HB2	3:N:520:LEU:HD13	1.80	0.62
3:N:935:LYS:O	3:N:939:PHE:HD1	1.83	0.62
3:N:948:THR:OG1	3:N:949:ILE:N	2.31	0.62
3:N:1078:ARG:NH1	3:N:1078:ARG:HB3	2.11	0.62
3:D:367:ILE:CD1	3:D:368:VAL:H	2.12	0.62
3:D:806:PHE:O	3:D:808:THR:N	2.32	0.62
2:M:895:TYR:HD1	2:M:991:GLN:HE21	1.47	0.62
3:N:90:MET:HB3	3:N:519:VAL:O	2.00	0.62
2:C:726:ILE:O	2:C:726:ILE:HG22	1.98	0.62
2:C:431:HIS:HD2	2:C:432:ARG:H	1.47	0.62
3:N:813:LEU:HD12	3:N:814:ALA:N	2.14	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:119:SER:N	3:D:123:LEU:HB2	2.13	0.62
3:D:671:LYS:HA	3:D:674:ARG:HD3	1.81	0.62
1:A:62:LEU:CD1	1:A:62:LEU:H	2.10	0.62
2:C:525:SER:O	2:C:528:GLU:HB2	1.99	0.62
2:M:480:THR:HG22	2:M:482:GLU:H	1.64	0.62
2:C:911:GLU:HB3	2:C:912:PRO:HD3	1.81	0.62
2:M:695:LEU:HD21	2:M:833:LEU:HB3	1.81	0.62
1:A:18:ARG:HH22	1:A:88:ARG:NH2	1.96	0.62
2:M:578:VAL:H	2:M:671:ASN:HD21	1.47	0.62
3:N:669:ASN:O	3:N:672:ALA:HB3	1.99	0.62
3:D:225:LEU:HD12	3:D:440:VAL:HG21	1.82	0.62
3:D:898:GLU:HB3	3:D:921:ARG:HH22	1.65	0.62
2:C:6:PHE:O	2:C:7:GLY:O	2.16	0.62
2:M:442:GLU:HG2	2:M:454:SER:HB2	1.82	0.62
5:P:234:LYS:HE3	5:P:236:SER:HB3	1.81	0.62
1:A:5:LYS:HE3	1:A:5:LYS:HA	1.80	0.62
3:D:1422:MET:HE3	3:D:1426:LYS:HG2	1.81	0.62
3:N:939:PHE:O	3:N:942:SER:HB3	1.99	0.62
3:D:906:GLN:OE1	3:D:906:GLN:HA	1.99	0.62
3:D:97:THR:HG21	3:D:571:LYS:HD3	1.82	0.62
2:M:578:VAL:HG13	2:M:671:ASN:ND2	2.14	0.62
3:D:704:ARG:HG3	3:D:705:ALA:N	2.15	0.62
3:N:1197:ARG:HB2	3:N:1396:GLU:HG3	1.81	0.62
2:C:967:PHE:HA	2:C:971:LYS:O	2.00	0.62
1:L:58:ILE:HD13	1:L:140:MET:HB2	1.82	0.62
2:C:770:GLU:HG2	3:D:65:ARG:HH22	1.63	0.62
3:D:1319:VAL:HG12	3:D:1323:GLN:OE1	1.99	0.62
3:N:793:THR:O	3:N:879:ARG:NH1	2.32	0.62
2:C:676:ILE:CG2	2:C:988:VAL:HG13	2.29	0.62
1:A:20:TYR:O	1:A:207:PRO:HG2	2.00	0.62
3:N:965:GLU:HA	3:N:968:ASP:HB2	1.82	0.62
1:K:62:LEU:HD23	1:K:163:ASN:OD1	1.99	0.62
5:F:88:ILE:CD1	5:F:193:ARG:HB2	2.26	0.62
1:A:86:VAL:HG12	1:A:124:ASN:HB2	1.80	0.62
3:N:1042:ARG:HG3	3:N:1042:ARG:O	1.99	0.62
2:M:300:ASP:C	2:M:302:VAL:H	2.01	0.62
1:K:12:THR:CG2	1:K:24:VAL:HB	2.29	0.62
2:M:679:PHE:CZ	2:M:978:ARG:NH1	2.67	0.62
1:A:75:VAL:O	1:A:75:VAL:HG12	2.00	0.62
2:C:689:VAL:CG2	2:C:870:ILE:HB	2.30	0.62
3:N:657:LEU:HG	3:N:661:MET:HE2	1.82	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:191:LEU:HD22	3:N:195:VAL:HG11	1.80	0.62
2:C:644:VAL:HG22	2:C:647:GLN:OE1	2.00	0.62
3:D:218:LYS:CE	3:D:370:ALA:HA	2.30	0.62
2:M:1056:LYS:HB3	3:N:624:ASP:H	1.64	0.62
3:N:1273:VAL:HG22	3:N:1326:THR:OG1	1.99	0.62
1:B:153:ALA:HB1	1:B:166:PRO:CB	2.28	0.62
2:C:813:VAL:HG21	2:C:815:LEU:HD13	1.82	0.62
3:N:1155:VAL:O	3:N:1157:GLY:N	2.32	0.62
1:K:1:MET:O	1:K:6:LEU:HD22	2.00	0.62
2:M:559:LEU:CD1	2:M:563:ASN:HD21	2.13	0.62
2:C:292:ARG:HD2	2:C:299:LYS:HE2	1.80	0.61
3:D:761:ILE:HD11	4:E:23:VAL:HG11	1.81	0.61
2:M:537:LYS:CA	2:M:905:ILE:HD11	2.30	0.61
3:N:1134:LEU:HD23	3:N:1135:ARG:N	2.15	0.61
5:P:273:ARG:O	5:P:277:GLN:HG3	1.98	0.61
5:P:234:LYS:HE3	5:P:236:SER:CB	2.30	0.61
3:N:470:LEU:HD12	3:N:503:LEU:HG	1.82	0.61
3:D:1170:ASP:O	3:D:1174:LEU:HG	2.01	0.61
3:D:117:ASP:C	3:D:118:LEU:HD12	2.20	0.61
2:C:106:GLY:O	2:C:107:LEU:HD23	2.00	0.61
3:D:232:GLU:HB2	3:D:234:GLU:OE2	2.00	0.61
3:D:796:ARG:HD3	3:D:862:ASP:OD2	2.01	0.61
3:D:703:ASN:HD22	3:D:704:ARG:N	1.98	0.61
2:M:626:ARG:NH2	2:M:639:GLN:HE22	1.97	0.61
3:D:1045:MET:HG3	3:D:1073:SER:CA	2.29	0.61
2:C:194:VAL:HG22	2:C:221:LEU:CD1	2.29	0.61
5:F:282:LEU:HD12	5:F:284:ARG:H	1.64	0.61
2:M:215:GLY:O	2:M:218:VAL:HG23	1.99	0.61
3:D:1262:LEU:CD2	3:D:1352:ILE:HG13	2.11	0.61
3:D:86:ARG:HG2	3:D:523:ASP:OD2	2.00	0.61
3:D:1379:VAL:CG1	3:D:1395:LEU:HD23	2.28	0.61
2:M:575:GLN:C	2:M:667:ALA:HB1	2.20	0.61
5:P:144:ILE:HB	5:P:145:PRO:HD3	1.80	0.61
3:N:702:LEU:HB3	3:N:745:MET:CE	2.30	0.61
2:M:15:LEU:HD21	2:M:583:LEU:HD22	1.82	0.61
1:K:97:VAL:HG12	1:K:98:THR:H	1.65	0.61
2:C:896:PHE:CE2	2:C:925:TYR:HB2	2.34	0.61
2:C:863:ASP:CG	2:C:863:ASP:O	2.38	0.61
3:N:231:VAL:CB	3:N:378:ILE:HG23	2.30	0.61
2:C:571:LEU:HD12	2:C:571:LEU:H	1.65	0.61
3:D:112:ILE:O	3:D:112:ILE:HD12	2.01	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:658:GLY:N	2:C:661:SER:HB2	2.08	0.61
3:D:1159:ARG:HG2	3:D:1159:ARG:HH11	1.65	0.61
2:M:1000:MET:HB2	2:M:1002:GLU:OE1	2.00	0.61
2:M:194:VAL:HG22	2:M:221:LEU:HD12	1.82	0.61
2:M:281:LEU:HD13	2:M:306:THR:HA	1.81	0.61
2:C:1090:LYS:HE2	2:C:1112:PHE:CE1	2.36	0.61
1:A:51:THR:HG22	1:A:145:ASP:O	1.99	0.61
2:M:919:ALA:CA	2:M:968:LEU:HD21	2.30	0.61
2:M:673:LEU:N	2:M:868:ASP:OD2	2.33	0.61
3:N:404:GLU:OE2	3:N:414:ARG:NH2	2.33	0.61
2:C:494:TYR:HB3	2:C:530:GLU:OE2	2.00	0.61
3:N:397:LYS:HZ3	3:N:399:ARG:HH21	1.48	0.61
2:M:943:VAL:HG13	2:M:985:GLY:H	1.64	0.61
2:M:384:GLU:HG3	2:M:388:ARG:HE	1.66	0.61
2:M:1118:LYS:O	2:M:1119:ARG:HB2	2.01	0.61
3:N:935:LYS:CG	3:N:939:PHE:HE1	2.13	0.61
3:N:1262:LEU:HD23	3:N:1352:ILE:HG13	1.82	0.61
3:N:116:LEU:HB3	3:N:118:LEU:HD13	1.83	0.61
5:P:88:ILE:O	5:P:92:PRO:HG3	1.99	0.61
3:D:379:ALA:HB3	3:D:382:GLU:OE1	2.01	0.61
2:C:194:VAL:HG21	2:C:221:LEU:O	2.00	0.61
3:N:562:ALA:HB3	3:N:567:ILE:HG12	1.83	0.61
3:D:67:ARG:HB2	5:F:375:LEU:HD11	1.82	0.61
2:M:167:LYS:NZ	2:M:168:ARG:HH21	1.99	0.61
2:M:723:THR:HG23	2:M:725:ASP:H	1.66	0.61
1:K:90:LEU:HB2	1:K:119:ASP:HB3	1.82	0.61
3:N:633:VAL:HG22	3:N:635:PRO:HD3	1.81	0.61
1:A:25:LEU:HD22	1:A:28:LEU:HD11	1.82	0.61
1:B:217:ILE:HG22	1:B:221:HIS:HD2	1.64	0.61
2:C:516:ARG:CD	3:D:1068:LEU:HD13	2.31	0.61
2:C:288:ARG:NE	2:C:288:ARG:HA	2.14	0.61
2:M:512:ARG:CG	2:M:523:ILE:HD11	2.24	0.61
2:M:18:LEU:C	2:M:408:ARG:HH21	2.04	0.61
2:M:578:VAL:N	2:M:671:ASN:HD21	1.99	0.61
5:F:354:LEU:HD23	5:F:418:LEU:HD21	1.83	0.61
3:N:40:GLU:HG3	3:N:41:ARG:H	1.65	0.61
5:P:300:ASP:O	5:P:304:VAL:HG23	2.01	0.61
3:N:1363:LEU:HD11	3:N:1368:ILE:HD11	1.80	0.61
1:L:3:ASP:CG	1:L:4:SER:H	2.03	0.61
2:C:843:HIS:CD2	2:C:884:GLN:HA	2.35	0.61
2:M:113:VAL:O	2:M:115:LEU:HD23	2.01	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:137:VAL:HG13	2:M:409:ARG:O	2.01	0.61
2:C:132:ALA:HB1	2:C:632:ASN:HD21	1.65	0.61
2:C:637:LEU:HA	2:C:659:PRO:HG3	1.82	0.61
2:C:344:PHE:O	2:C:348:LEU:HD13	2.00	0.61
5:P:94:LEU:CG	5:P:97:GLU:HB2	2.31	0.61
3:D:966:GLU:O	3:D:969:ARG:HG2	2.01	0.61
2:M:578:VAL:N	2:M:671:ASN:ND2	2.49	0.61
3:N:1062:ARG:HD3	3:N:1062:ARG:C	2.21	0.61
5:F:207:LEU:HB2	5:F:212:LEU:CD2	2.31	0.61
1:K:25:LEU:HD23	1:K:195:LEU:HD23	1.81	0.61
2:M:774:LEU:HD23	5:P:354:LEU:HD21	1.83	0.61
3:D:34:TYR:CE2	5:F:260:ILE:HG13	2.35	0.61
5:P:300:ASP:CG	5:P:301:ALA:N	2.53	0.61
2:M:620:LEU:HD23	2:M:620:LEU:H	1.65	0.61
2:C:42:VAL:HG12	2:C:43:GLY:H	1.66	0.61
2:C:701:THR:HG23	2:C:832:LYS:HA	1.82	0.61
3:D:233:LYS:NZ	3:D:237:LYS:HD2	2.16	0.61
2:M:1055:LEU:CD2	2:M:1079:PRO:HG3	2.31	0.61
2:C:52:PHE:O	2:C:54:ILE:N	2.33	0.61
3:D:385:VAL:HG21	5:F:97:GLU:OE2	2.00	0.61
3:D:1389:LEU:N	3:D:1389:LEU:HD23	2.11	0.61
3:D:493:ARG:NE	3:D:1389:LEU:HG	2.15	0.61
3:D:1109:GLU:HG2	3:D:1201:CYS:HA	1.81	0.61
2:M:1051:GLU:OE2	3:N:752:SER:HB3	2.00	0.61
5:P:358:LEU:HD11	5:P:370:LYS:HD2	1.83	0.61
5:P:389:PHE:HE2	5:P:394:ARG:HG3	1.66	0.61
3:N:1042:ARG:HH12	3:N:1045:MET:CE	2.13	0.61
2:M:713:ARG:HB2	2:M:720:GLU:OE1	2.01	0.61
3:D:826:PRO:HD2	3:D:829:VAL:CG1	2.30	0.61
1:B:101:LEU:HD23	1:B:102:LYS:N	2.15	0.61
3:D:1372:VAL:HA	3:D:1375:MET:HE2	1.83	0.61
3:N:409:VAL:O	3:N:411:THR:N	2.34	0.61
2:M:1115:LEU:HD13	3:N:85:VAL:HG12	1.83	0.61
2:C:691:SER:O	2:C:693:GLU:N	2.34	0.61
2:C:695:LEU:HD21	2:C:833:LEU:O	2.01	0.61
3:D:1201:CYS:SG	3:D:1204:CYS:CB	2.85	0.61
3:N:1277:ILE:O	3:N:1321:ALA:HA	2.00	0.61
3:D:1095:THR:O	3:D:1099:VAL:HG23	1.99	0.61
3:D:647:ARG:HD2	3:D:680:GLN:NE2	2.16	0.61
3:N:820:GLU:OE2	3:N:836:VAL:HG21	2.00	0.61
3:N:1121:PRO:O	3:N:1122:LEU:HD12	2.01	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:192:PRO:O	2:C:195:LEU:HB3	2.00	0.61
2:C:197:LEU:HD13	2:C:207:LEU:HD11	1.83	0.61
3:N:1368:ILE:O	3:N:1372:VAL:HG23	2.01	0.61
3:N:899:LEU:HD12	3:N:900:ILE:HG23	1.83	0.61
2:C:726:ILE:O	2:C:728:HIS:N	2.34	0.61
1:A:5:LYS:O	1:A:8:ALA:HB2	2.01	0.61
2:M:111:ASP:O	2:M:113:VAL:HG23	2.01	0.61
3:D:887:ALA:O	3:D:890:VAL:O	2.18	0.61
2:C:591:SER:O	2:C:592:LEU:HD23	2.01	0.61
2:M:1018:GLN:HG2	3:N:87:ARG:HH22	1.66	0.60
3:D:784:ASP:O	3:D:787:LEU:HB3	2.01	0.60
1:A:32:PHE:C	1:A:34:VAL:H	2.04	0.60
3:N:736:PHE:O	3:N:737:ASN:C	2.39	0.60
3:D:218:LYS:HD3	3:D:372:ASP:H	1.66	0.60
2:M:516:ARG:NH1	2:M:521:PRO:HB3	2.16	0.60
1:A:182:GLU:CD	2:C:935:GLY:H	2.04	0.60
3:N:957:PRO:CG	3:N:1007:VAL:HG12	2.31	0.60
2:M:922:PHE:CD2	2:M:964:LYS:HD3	2.34	0.60
3:D:1155:VAL:CG2	3:D:1183:ILE:HD11	2.31	0.60
3:N:955:VAL:HB	3:N:1011:PHE:HE1	1.65	0.60
3:N:924:MET:HB3	4:O:7:ASP:OD2	2.00	0.60
3:N:1237:THR:HG22	3:N:1238:MET:N	2.16	0.60
2:M:398:THR:HG23	2:M:635:THR:HG21	1.83	0.60
2:C:412:ALA:HB1	2:C:419:THR:HG21	1.83	0.60
3:N:502:PHE:CZ	3:N:1452:ILE:HD11	2.35	0.60
1:A:218:LEU:HD23	1:B:222:LEU:HD11	1.82	0.60
1:A:161:ARG:HH11	1:A:161:ARG:HG3	1.65	0.60
3:N:852:ALA:HB1	3:N:857:ILE:HB	1.82	0.60
3:N:44:LEU:HB3	3:N:525:ARG:HH21	1.63	0.60
2:C:436:GLY:HA2	2:C:538:GLN:O	2.01	0.60
3:D:1109:GLU:HG2	3:D:1202:GLN:H	1.67	0.60
2:C:266:ARG:HG3	2:C:266:ARG:HH11	1.66	0.60
4:E:40:LEU:O	4:E:40:LEU:HD12	2.01	0.60
5:P:88:ILE:HD13	5:P:193:ARG:HD2	1.83	0.60
3:N:669:ASN:H	3:N:672:ALA:CB	2.15	0.60
2:M:478:VAL:HG13	2:M:506:ASN:HD22	1.64	0.60
3:D:1314:LYS:HZ3	3:D:1317:ASP:HB2	1.62	0.60
3:D:716:PHE:O	3:D:718:PRO:HD3	2.01	0.60
3:N:1155:VAL:CG2	3:N:1183:ILE:HD11	2.30	0.60
3:N:770:LEU:HD11	3:N:919:PHE:CG	2.36	0.60
1:K:151:VAL:HG13	1:K:155:LYS:HD3	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:P:151:LEU:HB2	5:P:155:THR:H	1.65	0.60
2:C:572:ILE:HG12	2:C:701:THR:O	2.01	0.60
2:M:333:ILE:HG22	2:M:333:ILE:O	2.01	0.60
2:C:277:ALA:O	2:C:281:LEU:HD23	2.02	0.60
3:N:197:SER:HB3	3:N:203:ALA:HB3	1.83	0.60
2:M:553:ASP:OD1	2:M:843:HIS:ND1	2.34	0.60
2:C:636:ALA:HB2	2:C:705:ILE:CD1	2.31	0.60
2:C:906:PHE:HE1	3:D:1067:VAL:HG13	1.66	0.60
3:N:187:LYS:HE2	3:N:213:VAL:CG1	2.18	0.60
3:N:1258:ARG:NH2	3:N:1262:LEU:HD11	2.16	0.60
3:N:574:LEU:HD12	3:N:574:LEU:O	2.01	0.60
3:N:911:LEU:O	3:N:914:LEU:N	2.34	0.60
2:M:375:SER:O	2:M:379:GLU:HB2	2.01	0.60
3:N:1068:LEU:HD23	3:N:1072:ILE:HD13	1.82	0.60
2:C:1007:ALA:O	2:C:1027:PHE:HD2	1.83	0.60
3:D:714:GLN:HE22	3:D:735:ALA:HB1	1.65	0.60
3:D:1451:ALA:O	3:D:1453:ALA:N	2.34	0.60
2:M:755:LEU:O	2:M:756:VAL:HG23	2.00	0.60
1:A:69:PRO:HA	2:C:607:ASP:OD2	2.01	0.60
3:D:996:TRP:CZ3	3:D:999:THR:HG21	2.37	0.60
5:P:220:LEU:O	5:P:220:LEU:HD23	2.00	0.60
3:D:218:LYS:HD2	3:D:372:ASP:OD1	2.01	0.60
2:M:1005:MET:HB3	3:N:629:SER:HB2	1.82	0.60
3:D:1231:GLU:HB3	3:D:1232:PRO:CD	2.28	0.60
3:N:1291:SER:HB3	3:N:1293:PHE:HE1	1.67	0.60
1:B:175:ARG:HB2	1:B:200:TRP:HB3	1.82	0.60
3:D:1031:ASN:HB3	3:D:1034:GLN:CD	2.22	0.60
2:C:1067:TYR:HB2	5:F:341:PRO:HB3	1.81	0.60
3:D:1120:VAL:HG11	3:D:1144:LEU:CG	2.31	0.60
5:P:139:ALA:HB1	5:P:152:ASP:HB2	1.83	0.60
1:L:33:GLY:HA3	1:L:181:VAL:HG13	1.83	0.60
1:K:111:ALA:CB	1:K:127:LEU:HB3	2.31	0.60
1:L:221:HIS:HA	1:L:224:TYR:CD2	2.35	0.60
3:N:806:PHE:HD1	3:N:812:ALA:HB3	1.65	0.60
3:N:785:ILE:HG23	3:N:938:GLY:HA3	1.82	0.60
1:L:30:ARG:NH2	2:M:692:GLU:OE2	2.28	0.60
3:N:179:VAL:HG21	3:N:217:LYS:HE2	1.84	0.60
3:N:714:GLN:HE22	3:N:732:VAL:HG11	1.66	0.60
3:N:1403:LEU:O	3:N:1407:LEU:HD13	2.01	0.60
3:N:1071:PHE:O	3:N:1074:SER:OG	2.20	0.60
2:C:762:LYS:HA	2:C:786:LYS:CD	2.28	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:762:LYS:NZ	2:C:762:LYS:HB2	2.16	0.60
3:D:1476:THR:HG23	4:E:21:VAL:CG2	2.29	0.60
2:M:413:LEU:CD1	2:M:451:LEU:HD22	2.31	0.60
5:F:256:ARG:HH21	5:F:260:ILE:HB	1.65	0.60
1:L:106:PRO:HD3	1:L:134:GLU:OE2	2.01	0.60
1:L:49:PRO:HA	1:L:147:GLY:O	2.01	0.60
2:M:712:ALA:O	2:M:820:ARG:HB2	2.00	0.60
4:E:61:GLU:CD	4:E:62:THR:N	2.55	0.60
2:C:16:PRO:O	2:C:18:LEU:HD12	2.01	0.60
2:C:328:LEU:HD13	2:C:433:THR:HB	1.83	0.60
3:D:525:ARG:N	3:D:526:PRO:HD3	2.15	0.60
3:D:987:GLU:O	3:D:991:GLN:HB2	2.02	0.60
1:A:206:THR:HG22	1:A:208:LEU:N	2.16	0.60
3:D:609:GLY:HA3	3:D:614:PHE:H	1.66	0.60
3:N:231:VAL:HA	3:N:378:ILE:HG12	1.82	0.60
3:N:1205:TYR:CE1	3:N:1221:VAL:CG1	2.85	0.60
3:D:1007:VAL:CG2	3:D:1008:PHE:N	2.64	0.60
2:C:554:ASP:OD2	2:C:556:ASN:HB3	2.01	0.60
2:C:943:VAL:HG21	2:C:973:VAL:HG13	1.82	0.60
2:C:26:TYR:O	2:C:29:ALA:HB3	2.02	0.60
2:C:431:HIS:CD2	2:C:432:ARG:H	2.20	0.60
3:N:903:ASP:O	3:N:904:VAL:HG13	2.02	0.60
3:N:554:LEU:HD12	3:N:558:LEU:HD11	1.83	0.60
1:A:114:PHE:CZ	1:A:142:VAL:HG21	2.37	0.60
3:D:860:LEU:HD23	3:D:877:PRO:HB2	1.84	0.60
2:M:73:LEU:HD23	2:M:93:PRO:O	2.02	0.60
3:D:714:GLN:HE22	3:D:735:ALA:CB	2.14	0.60
5:F:287:THR:HG23	5:F:289:GLU:H	1.67	0.60
2:C:941:VAL:HA	2:C:944:LEU:HD12	1.84	0.60
1:K:151:VAL:HG12	1:K:151:VAL:O	2.01	0.60
3:D:1119:SER:O	3:D:1121:PRO:HD3	2.01	0.60
1:K:101:LEU:C	1:K:101:LEU:HD23	2.21	0.60
3:N:889:ALA:HB1	3:N:930:LEU:HA	1.84	0.60
3:D:1264:GLU:OE2	3:D:1425:THR:HB	2.01	0.60
3:N:162:ARG:CB	3:N:434:ARG:HH21	2.14	0.60
1:A:28:LEU:HB2	1:A:193:ASP:O	2.02	0.60
3:N:99:ALA:HA	3:N:575:GLN:HE22	1.67	0.60
3:N:137:PRO:CD	3:N:453:ASP:HB3	2.32	0.60
1:K:54:THR:O	1:K:54:THR:HG22	2.00	0.60
4:E:45:ARG:NH2	4:E:72:ARG:HH22	1.98	0.60
1:K:38:ASN:HD22	1:K:179:PHE:HE2	1.47	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:669:ASN:OD1	3:N:672:ALA:HB2	2.00	0.60
3:D:709:HIS:CD2	3:D:711:LEU:HB2	2.37	0.60
5:F:251:ILE:O	5:F:255:ALA:HB2	2.02	0.60
3:D:819:GLY:O	3:D:822:ALA:HB3	2.01	0.60
2:C:191:PHE:HD2	2:C:195:LEU:HD23	1.67	0.60
3:D:807:ALA:HB2	3:D:833:GLU:HB3	1.82	0.60
2:C:197:LEU:HD13	2:C:207:LEU:CD1	2.32	0.60
1:L:161:ARG:HH11	1:L:161:ARG:HG3	1.67	0.60
1:A:156:HIS:HD2	1:A:158:ILE:HG12	1.66	0.60
4:E:41:GLU:H	4:E:42:PRO:HD2	1.66	0.60
2:M:703:ILE:HG12	2:M:830:LYS:HG2	1.83	0.60
3:D:785:ILE:HD13	3:D:935:LYS:HA	1.83	0.60
3:N:47:GLU:CD	3:N:53:ILE:HG22	2.22	0.60
2:C:605:LYS:HE2	2:C:610:ARG:HH22	1.67	0.60
3:D:133:ILE:HG13	3:D:456:MET:HE2	1.84	0.60
1:K:124:ASN:N	1:K:125:PRO:HD3	2.17	0.60
1:K:214:ALA:O	1:K:217:ILE:N	2.35	0.60
5:P:389:PHE:HB3	5:P:397:ILE:HD11	1.83	0.60
2:M:838:LYS:HG3	2:M:997:LEU:HD12	1.83	0.60
3:D:1102:THR:O	3:D:1105:ILE:HG12	2.02	0.60
3:D:18:ILE:HG21	3:D:516:ALA:O	2.02	0.60
2:C:381:ALA:O	2:C:384:GLU:HB3	2.02	0.60
2:C:154:ARG:C	2:C:156:GLY:H	2.05	0.60
3:D:1258:ARG:NH2	3:D:1262:LEU:HD11	2.17	0.60
2:M:678:PRO:O	3:N:943:THR:HB	2.01	0.60
2:C:516:ARG:NH2	3:D:1068:LEU:CB	2.63	0.60
2:C:413:LEU:HD12	2:C:413:LEU:N	2.08	0.60
3:N:951:ILE:HD11	3:N:1062:ARG:O	2.02	0.60
1:K:206:THR:CG2	1:K:209:GLU:H	2.09	0.60
2:C:1034:GLU:O	2:C:1037:VAL:HB	2.02	0.60
2:M:167:LYS:C	2:M:169:GLY:H	2.03	0.60
1:B:78:ILE:C	1:B:80:LEU:H	2.05	0.60
2:M:795:GLY:O	2:M:796:GLU:HG2	2.02	0.60
5:P:167:PRO:HB2	5:P:169:GLU:OE1	2.01	0.60
3:N:56:TYR:O	3:N:80:VAL:HG21	2.02	0.59
3:N:935:LYS:HG2	3:N:939:PHE:CE1	2.37	0.59
3:N:118:LEU:O	3:N:120:ALA:N	2.35	0.59
3:N:153:LEU:HD23	3:N:153:LEU:N	2.17	0.59
3:N:133:ILE:CG2	3:N:454:ALA:HB1	2.24	0.59
3:N:441:ARG:C	3:N:443:VAL:H	2.05	0.59
3:D:750:PRO:HG2	3:D:756:GLN:OE1	2.02	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:202:VAL:HG12	3:N:204:LEU:HG	1.83	0.59
1:K:13:VAL:HG12	1:K:14:ARG:H	1.64	0.59
5:P:302:LYS:HD2	5:P:303:ARG:N	2.17	0.59
3:N:159:ARG:NH2	5:P:87:GLU:HG2	2.17	0.59
2:C:244:PRO:HG2	2:C:246:ASP:OD2	2.01	0.59
2:M:1014:SER:HA	2:M:1021:LEU:HD22	1.82	0.59
3:N:422:ALA:HB3	3:N:427:VAL:HG13	1.84	0.59
4:E:40:LEU:HD22	4:E:45:ARG:NH1	2.16	0.59
1:A:184:THR:O	1:A:192:LEU:HB2	2.02	0.59
3:D:1085:ALA:HB3	6:D:1525:STD:O9	2.02	0.59
3:N:1197:ARG:HD2	3:N:1396:GLU:HB2	1.83	0.59
1:K:26:GLU:HG2	1:K:27:PRO:N	2.17	0.59
2:C:585:GLU:HG2	2:C:665:PHE:CE2	2.38	0.59
1:L:176:ARG:HG2	1:L:200:TRP:CG	2.36	0.59
1:K:132:LEU:HD12	1:K:132:LEU:N	2.17	0.59
2:C:671:ASN:ND2	2:C:671:ASN:N	2.50	0.59
3:N:155:ASP:O	3:N:159:ARG:HB2	2.02	0.59
1:K:112:ARG:HG3	1:K:113:ASP:OD2	2.02	0.59
2:M:768:THR:HB	2:M:771:GLU:HB3	1.84	0.59
3:D:1443:THR:O	3:D:1447:LEU:HD22	2.01	0.59
2:C:859:PRO:HB3	2:C:974:LEU:HD23	1.84	0.59
5:P:120:THR:CG2	5:P:122:LEU:HD13	2.15	0.59
3:D:1020:LEU:HA	3:D:1023:MET:HE3	1.85	0.59
3:N:217:LYS:HG3	3:N:389:GLU:HB3	1.82	0.59
3:N:169:TYR:HA	3:N:392:SER:HA	1.83	0.59
2:M:578:VAL:HG23	2:M:579:VAL:HG12	1.84	0.59
2:M:102:HIS:C	2:M:104:ASP:H	2.05	0.59
3:N:1267:ARG:NH1	3:N:1271:LYS:HG3	2.17	0.59
5:P:416:ARG:CG	5:P:419:ARG:HG3	2.33	0.59
5:F:370:LYS:O	5:F:374:GLY:HA3	2.03	0.59
2:C:507:ARG:HH11	2:C:507:ARG:HB2	1.67	0.59
3:N:715:ALA:HB3	3:N:764:LEU:CA	2.22	0.59
3:N:119:SER:HB2	3:N:123:LEU:HB2	1.82	0.59
3:D:651:GLU:OE1	3:D:651:GLU:HA	2.03	0.59
5:P:220:LEU:O	5:P:224:VAL:HG23	2.02	0.59
2:M:106:GLY:C	2:M:107:LEU:HD23	2.22	0.59
2:C:456:ALA:HA	2:C:541:SER:HA	1.84	0.59
2:M:424:GLY:O	2:M:428:ARG:HG3	2.01	0.59
3:N:97:THR:OG1	3:N:571:LYS:HE3	2.02	0.59
3:D:699:VAL:HG12	3:D:717:GLN:CA	2.32	0.59
2:C:589:ARG:HA	2:C:596:TYR:OH	2.02	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:192:PRO:HB2	2:C:195:LEU:CB	2.32	0.59
3:N:536:ALA:HA	5:P:315:VAL:O	2.03	0.59
2:M:63:GLY:HA3	2:M:103:LYS:HD2	1.83	0.59
2:M:54:ILE:HG23	2:M:54:ILE:O	2.02	0.59
2:C:73:LEU:HA	2:C:93:PRO:O	2.01	0.59
2:M:666:LEU:CD2	2:M:668:LEU:HD11	2.32	0.59
2:C:859:PRO:O	2:C:867:VAL:HG22	2.03	0.59
3:N:1150:ALA:H	3:N:1188:VAL:HA	1.68	0.59
3:N:574:LEU:O	3:N:578:VAL:HG23	2.02	0.59
3:D:972:LEU:HG	3:D:976:GLN:OE1	2.02	0.59
2:M:73:LEU:HD11	2:M:118:ILE:HD11	1.83	0.59
3:N:584:ASN:OD1	3:N:590:PRO:HD2	2.03	0.59
3:N:1283:ILE:HG22	3:N:1284:GLU:N	2.15	0.59
2:C:128:ILE:C	2:C:129:ILE:HD12	2.23	0.59
3:D:1155:VAL:HG11	3:D:1177:ALA:HB1	1.83	0.59
4:O:19:LEU:O	4:O:23:VAL:HG23	2.02	0.59
5:F:102:LEU:O	5:F:106:VAL:HG23	2.02	0.59
5:F:174:LEU:O	5:F:178:ARG:HG2	2.03	0.59
2:C:679:PHE:O	2:C:681:GLY:N	2.36	0.59
3:N:123:LEU:O	3:N:126:VAL:HG12	2.03	0.59
3:N:711:LEU:CD1	3:N:778:LEU:HD23	2.32	0.59
2:M:89:THR:O	2:M:91:GLN:HG3	2.02	0.59
2:C:1034:GLU:HG3	2:C:1035:MET:N	2.17	0.59
3:D:9:ARG:NH1	3:D:11:ALA:HB2	2.18	0.59
3:N:1336:LEU:HD12	3:N:1340:GLY:O	2.02	0.59
3:N:1349:VAL:HG21	3:N:1369:GLU:HG2	1.85	0.59
3:D:247:GLU:H	3:D:248:PRO:CD	2.14	0.59
3:N:50:PHE:CD2	3:N:522:PRO:HD3	2.38	0.59
3:D:182:GLY:O	3:D:185:VAL:N	2.36	0.59
3:D:183:GLU:O	3:D:186:VAL:HG12	2.03	0.59
4:O:38:THR:HG21	4:O:41:GLU:OE1	2.02	0.59
1:A:124:ASN:N	1:A:125:PRO:HD3	2.17	0.59
3:N:421:LEU:HD11	3:N:437:VAL:CG2	2.32	0.59
3:N:781:PRO:CB	3:N:911:LEU:HD23	2.27	0.59
3:N:968:ASP:O	3:N:971:LEU:HB3	2.02	0.59
3:D:139:GLY:HA3	3:D:147:VAL:HG13	1.84	0.59
3:N:1450:ALA:HB1	3:N:1455:LYS:HB2	1.85	0.59
1:B:58:ILE:HG22	1:B:59:GLU:N	2.18	0.59
3:D:629:SER:OG	3:D:630:VAL:N	2.36	0.59
3:D:39:PRO:HB3	3:D:45:PHE:HB2	1.83	0.59
1:B:57:TYR:CE2	1:B:161:ARG:HG2	2.37	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:1089:VAL:HG13	2:M:1099:VAL:HG23	1.81	0.59
2:M:405:ARG:HH21	2:M:409:ARG:NH2	2.01	0.59
1:A:79:ILE:HD12	1:A:80:LEU:N	2.17	0.59
1:A:153:ALA:HA	1:A:156:HIS:CE1	2.38	0.59
2:C:74:GLY:O	2:C:75:GLU:HG3	2.03	0.59
3:N:1107:VAL:O	3:N:1218:GLY:N	2.35	0.59
2:C:139:GLN:OE1	2:C:414:GLY:HA3	2.02	0.59
3:D:1379:VAL:O	3:D:1392:GLY:HA2	2.03	0.59
2:C:607:ASP:HB3	2:C:610:ARG:H	1.67	0.59
3:D:949:ILE:HG22	3:D:949:ILE:O	2.03	0.59
1:A:35:THR:O	1:A:39:PRO:HG2	2.03	0.59
1:A:18:ARG:HH12	1:A:88:ARG:HE	1.45	0.59
3:D:1310:ARG:HG3	3:D:1327:ARG:CB	2.28	0.59
2:M:549:PHE:HB3	2:M:552:HIS:CD2	2.38	0.59
3:D:371:ILE:O	3:D:371:ILE:HD12	2.02	0.59
1:B:152:PRO:HD2	1:B:155:LYS:CD	2.29	0.59
3:D:601:ARG:HB2	3:D:601:ARG:NH1	2.17	0.59
3:N:1274:ILE:HD12	3:N:1274:ILE:O	2.03	0.59
2:C:923:GLU:OE1	2:C:927:GLY:HA3	2.02	0.59
1:B:189:ARG:NH1	1:B:189:ARG:HG3	2.16	0.59
2:M:244:PRO:CG	2:M:245:GLY:H	2.16	0.59
3:N:1209:LEU:HD23	3:N:1211:MET:CE	2.33	0.59
2:C:66:LEU:HD13	2:C:100:LEU:HB3	1.85	0.59
2:M:886:LEU:O	2:M:887:GLU:C	2.41	0.59
3:D:794:GLN:NE2	3:D:795:VAL:O	2.36	0.59
2:M:516:ARG:HD2	2:M:521:PRO:HA	1.84	0.59
2:M:428:ARG:CZ	6:M:1120:STD:H292	2.33	0.59
1:K:103:ALA:C	1:K:104:GLU:HG3	2.22	0.59
2:M:679:PHE:C	2:M:681:GLY:H	2.04	0.59
3:D:808:THR:HB	3:D:809:PRO:CD	2.33	0.59
5:P:126:LEU:O	5:P:130:VAL:HG23	2.02	0.59
2:C:149:THR:HG23	2:C:150:PRO:HD2	1.85	0.59
2:C:470:PRO:HG3	2:C:485:TYR:CZ	2.37	0.59
1:K:56:VAL:O	1:K:164:ALA:HB1	2.01	0.59
3:D:218:LYS:HD3	3:D:371:ILE:N	2.18	0.59
3:D:646:LYS:O	3:D:648:MET:N	2.36	0.59
2:C:1097:LEU:HG	3:D:101:HIS:HE1	1.67	0.59
5:P:343:ASP:O	5:P:346:THR:HB	2.02	0.59
3:D:50:PHE:CD2	3:D:522:PRO:HD3	2.38	0.58
3:N:225:LEU:HB2	3:N:227:LEU:HD21	1.84	0.58
4:E:45:ARG:NH2	4:E:72:ARG:NH2	2.51	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:474:VAL:CG1	2:C:529:VAL:HG12	2.29	0.58
3:D:704:ARG:CG	3:D:705:ALA:N	2.66	0.58
3:D:150:ARG:O	3:D:150:ARG:HG2	2.03	0.58
2:M:798:GLY:H	2:M:827:VAL:CG1	2.16	0.58
3:D:1074:SER:O	3:D:1077:ALA:CB	2.51	0.58
3:N:134:VAL:HG23	3:N:134:VAL:O	2.03	0.58
2:C:31:GLN:NE2	2:C:40:GLU:HB2	2.17	0.58
2:C:21:ILE:HD12	2:C:21:ILE:N	2.13	0.58
3:N:138:LYS:O	3:N:452:ILE:HD12	2.03	0.58
2:M:585:GLU:O	2:M:587:VAL:N	2.36	0.58
3:D:613:ARG:NH2	5:F:328:PHE:CE1	2.71	0.58
5:F:418:LEU:N	5:F:418:LEU:HD12	2.18	0.58
1:B:173:PRO:HB3	1:B:205:VAL:HG22	1.84	0.58
3:N:11:ALA:HB1	3:N:507:ASN:OD1	2.03	0.58
3:N:811:GLU:O	3:N:815:ALA:HB3	2.02	0.58
1:B:62:LEU:HD13	1:B:63:HIS:CD2	2.38	0.58
2:M:841:ASN:HD21	2:M:843:HIS:CD2	2.20	0.58
5:F:105:LYS:O	5:F:180:GLY:HA2	2.02	0.58
5:P:364:ARG:HG3	5:P:364:ARG:HH11	1.68	0.58
2:C:141:HIS:HB2	2:C:418:LEU:HD12	1.84	0.58
3:D:23:TYR:CE2	3:D:89:ARG:NH1	2.71	0.58
2:C:446:GLY:O	2:C:449:ILE:HG13	2.02	0.58
3:D:843:PHE:CD1	3:D:849:ALA:HA	2.38	0.58
3:D:701:LEU:N	3:D:701:LEU:HD12	2.17	0.58
3:D:462:GLN:HG3	3:D:513:ILE:HD13	1.85	0.58
5:F:278:LEU:CB	5:F:286:PRO:HG2	2.34	0.58
2:M:620:LEU:O	2:M:620:LEU:HG	2.03	0.58
2:C:80:GLN:O	2:C:83:CYS:N	2.35	0.58
3:D:1076:GLY:HA2	3:D:1079:LYS:HG2	1.85	0.58
3:N:1489:GLN:HA	3:N:1489:GLN:NE2	2.19	0.58
3:N:387:LEU:HD21	5:P:97:GLU:HG2	1.86	0.58
4:E:47:LYS:HA	4:E:54:LEU:HB3	1.85	0.58
2:M:435:TYR:O	2:M:437:ARG:HG2	2.04	0.58
2:C:657:ASP:OD1	2:C:661:SER:HB3	2.03	0.58
3:D:148:GLU:HB3	3:D:151:GLN:HB2	1.85	0.58
1:K:176:ARG:HH12	2:M:863:ASP:HB2	1.68	0.58
2:M:605:LYS:HB2	2:M:610:ARG:NH1	2.16	0.58
1:K:42:ARG:HH12	2:M:857:ASP:HB3	1.68	0.58
3:D:79:GLU:HG2	3:D:80:VAL:N	2.17	0.58
5:F:368:VAL:HG11	5:F:389:PHE:HD1	1.66	0.58
5:F:371:LEU:O	5:F:375:LEU:N	2.36	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:206:THR:HG23	1:L:208:LEU:H	1.69	0.58
2:M:881:ASN:H	2:M:881:ASN:HD22	1.52	0.58
3:N:688:TRP:O	3:N:691:LEU:HB3	2.03	0.58
3:D:172:PRO:HB3	3:D:178:LEU:HB2	1.84	0.58
3:D:217:LYS:HZ1	3:D:389:GLU:HB3	1.67	0.58
5:F:85:LEU:HA	5:F:88:ILE:HB	1.85	0.58
3:D:764:LEU:O	3:D:765:SER:C	2.42	0.58
2:M:471:TYR:CD1	2:M:486:MET:HE1	2.38	0.58
3:D:136:ASP:CB	3:D:137:PRO:CD	2.77	0.58
2:C:524:VAL:HG22	2:C:525:SER:N	2.15	0.58
3:N:729:HIS:ND1	3:N:730:PRO:HD2	2.19	0.58
3:D:1103:HIS:O	3:D:1105:ILE:N	2.37	0.58
2:C:583:LEU:O	2:C:587:VAL:HG23	2.03	0.58
3:D:103:TRP:HZ2	3:D:604:THR:HG1	1.52	0.58
1:A:224:TYR:CD2	1:B:9:PRO:HG2	2.37	0.58
3:N:1372:VAL:O	3:N:1375:MET:HG3	2.03	0.58
3:N:850:LEU:HA	3:N:853:VAL:CG2	2.34	0.58
2:C:801:VAL:O	2:C:802:ARG:HB2	2.02	0.58
3:D:1062:ARG:CG	3:D:1062:ARG:NH1	2.61	0.58
2:C:140:ILE:HA	2:C:332:ARG:O	2.03	0.58
2:C:71:TYR:H	2:C:71:TYR:HD2	1.51	0.58
3:D:1110:ALA:O	3:D:1112:CYS:N	2.36	0.58
3:N:1104:GLU:O	3:N:1108:ARG:NH2	2.36	0.58
1:A:186:LEU:HB2	1:A:192:LEU:HD13	1.85	0.58
3:D:646:LYS:HG3	3:D:647:ARG:H	1.68	0.58
2:M:200:LEU:HD13	2:M:300:ASP:CG	2.24	0.58
2:C:435:TYR:CE1	2:C:539:VAL:CG2	2.86	0.58
1:L:175:ARG:N	1:L:200:TRP:O	2.33	0.58
3:N:58:CYS:SG	3:N:78:VAL:HB	2.42	0.58
4:O:60:ALA:O	4:O:63:TRP:HB2	2.03	0.58
2:C:517:ARG:O	2:C:520:GLU:HB2	2.03	0.58
1:L:28:LEU:O	1:L:192:LEU:HD22	2.03	0.58
2:C:958:THR:HG23	2:C:961:GLU:H	1.69	0.58
3:D:932:ASP:O	3:D:935:LYS:HB3	2.03	0.58
2:C:490:GLU:HG3	2:C:493:ARG:NH1	2.18	0.58
3:N:1047:LYS:HB3	3:N:1048:PRO:HD2	1.85	0.58
3:D:1277:ILE:O	3:D:1321:ALA:HA	2.03	0.58
3:D:996:TRP:O	3:D:999:THR:N	2.37	0.58
2:C:1020:PRO:O	3:D:622:ARG:HD2	2.04	0.58
3:N:912:LYS:HZ2	3:N:912:LYS:HB3	1.68	0.58
2:M:578:VAL:HG13	2:M:671:ASN:CG	2.24	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:206:THR:HG22	1:K:209:GLU:CB	2.34	0.58
3:D:794:GLN:NE2	3:D:795:VAL:H	2.01	0.58
1:A:184:THR:O	1:A:192:LEU:HD12	2.03	0.58
2:M:195:LEU:HD21	2:M:238:LEU:HG	1.84	0.58
2:C:952:LEU:HD12	2:C:969:GLN:NE2	2.18	0.58
2:M:710:ILE:HD12	2:M:790:LEU:HB2	1.84	0.58
1:B:173:PRO:CB	1:B:205:VAL:HG22	2.34	0.58
3:N:95:LEU:HD12	3:N:515:GLU:HA	1.86	0.58
3:N:196:VAL:HG13	3:N:202:VAL:HG13	1.84	0.58
1:L:206:THR:HG23	1:L:208:LEU:N	2.18	0.58
1:L:92:PRO:C	1:L:94:LEU:H	2.06	0.58
3:N:1033:GLN:O	3:N:1037:GLN:HG3	2.04	0.58
3:N:1256:LEU:HB3	3:N:1257:PRO:HD3	1.85	0.58
5:F:164:LYS:HB2	5:F:171:LYS:NZ	2.19	0.58
3:D:86:ARG:O	3:D:522:PRO:HD2	2.04	0.58
5:F:81:VAL:O	5:F:85:LEU:HG	2.02	0.58
2:M:810:ASP:HB3	2:M:813:VAL:HG22	1.86	0.58
3:N:709:HIS:NE2	3:N:711:LEU:HB2	2.19	0.58
2:C:1005:MET:HE1	3:D:645:PRO:HD2	1.84	0.58
2:M:545:ASN:OD1	2:M:905:ILE:HD13	2.04	0.58
2:M:610:ARG:HG3	2:M:610:ARG:NH1	2.19	0.58
5:F:416:ARG:NH2	5:F:419:ARG:CD	2.65	0.58
3:D:32:ILE:HG23	3:D:38:LYS:O	2.04	0.58
3:D:469:ASP:O	3:D:472:ALA:HB3	2.04	0.58
3:N:93:ILE:HD13	3:N:548:ILE:HG12	1.84	0.58
2:C:230:ARG:HG3	2:C:233:GLU:HB3	1.85	0.58
3:D:89:ARG:O	3:D:521:PRO:HG3	2.04	0.58
3:N:455:ARG:NH1	3:N:455:ARG:HG2	2.19	0.58
4:E:40:LEU:HD22	4:E:45:ARG:HH11	1.68	0.58
3:N:826:PRO:O	3:N:836:VAL:HG11	2.02	0.58
2:C:129:ILE:HB	2:C:134:ARG:HD2	1.85	0.58
2:M:711:GLU:HG2	2:M:822:VAL:HG12	1.85	0.58
3:D:77:GLY:O	3:D:78:VAL:CG2	2.50	0.58
3:D:1345:GLU:O	3:D:1349:VAL:HG23	2.04	0.58
3:D:1057:VAL:O	3:D:1057:VAL:HG12	2.04	0.58
2:C:721:ARG:HG3	2:C:721:ARG:HH11	1.67	0.58
1:L:195:LEU:HD12	1:L:196:THR:N	2.19	0.58
3:D:1076:GLY:HA2	3:D:1079:LYS:CG	2.34	0.58
2:C:555:ALA:HB2	3:D:1070:TYR:CE1	2.38	0.58
2:C:689:VAL:O	2:C:690:ILE:HD13	2.04	0.58
3:N:175:VAL:O	3:N:179:VAL:HG21	2.04	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:994:GLN:HE21	3:D:998:GLU:CD	2.07	0.58
1:A:94:LEU:HD23	1:A:97:VAL:CG2	2.34	0.58
2:M:577:PRO:HG3	2:M:993:PHE:CD1	2.39	0.58
3:D:1084:THR:HG22	3:D:1087:ARG:NH2	2.18	0.58
1:L:61:VAL:HG21	1:L:68:ILE:HD11	1.85	0.58
3:D:806:PHE:HD1	3:D:812:ALA:HB3	1.69	0.58
3:D:1155:VAL:CG1	3:D:1183:ILE:HD11	2.33	0.58
3:N:1282:ARG:HB3	3:N:1282:ARG:NH1	2.19	0.58
4:E:61:GLU:OE1	4:E:62:THR:N	2.37	0.58
3:D:693:GLU:O	3:D:694:VAL:C	2.43	0.58
1:L:74:ASP:O	1:L:78:ILE:HG13	2.04	0.58
3:D:1331:ASP:OD2	3:D:1332:PRO:HD2	2.04	0.58
3:N:163:TYR:OH	3:N:394:LEU:HD23	2.03	0.57
2:C:676:ILE:O	3:D:948:THR:CG2	2.52	0.57
3:D:858:VAL:HG12	3:D:862:ASP:CB	2.34	0.57
2:M:1052:MET:HE2	3:N:748:HIS:HB3	1.85	0.57
2:M:157:ARG:NH1	2:M:314:THR:HB	2.18	0.57
3:N:996:TRP:CD2	3:N:1056:PRO:HG2	2.38	0.57
1:K:176:ARG:NH2	2:M:865:THR:HB	2.19	0.57
1:L:226:SER:O	1:L:228:PRO:HD3	2.03	0.57
3:N:76:CYS:HG	3:N:78:VAL:HG23	1.67	0.57
2:M:524:VAL:HG22	2:M:525:SER:H	1.67	0.57
1:A:202:ASP:OD1	1:A:204:SER:HB2	2.04	0.57
2:C:571:LEU:HD23	2:C:700:TYR:HA	1.85	0.57
3:D:1432:LYS:NZ	3:D:1460:ILE:HB	2.18	0.57
1:A:38:ASN:O	1:A:39:PRO:C	2.40	0.57
3:D:1112:CYS:HB3	3:D:1195:GLN:OE1	2.04	0.57
4:E:38:THR:HB	4:E:63:TRP:HZ3	1.69	0.57
2:M:172:ILE:CD1	2:M:172:ILE:H	2.05	0.57
2:C:1013:TYR:CE1	2:C:1020:PRO:HG3	2.39	0.57
2:C:1062:GLY:O	2:C:1063:ARG:C	2.41	0.57
2:M:129:ILE:HD12	2:M:129:ILE:N	2.19	0.57
1:L:86:VAL:CG1	1:L:124:ASN:HD22	2.15	0.57
3:D:55:ASP:CA	3:D:82:LYS:HG2	2.32	0.57
3:D:1043:GLY:HA2	3:D:1057:VAL:H	1.69	0.57
3:D:1015:TYR:O	3:D:1017:PHE:N	2.37	0.57
2:M:11:GLU:O	2:M:13:ILE:N	2.37	0.57
4:E:51:LEU:HD12	4:E:52:GLU:N	2.19	0.57
3:N:632:VAL:O	3:N:727:GLN:HA	2.04	0.57
2:C:976:ASP:O	2:C:978:ARG:N	2.37	0.57
2:M:1067:TYR:O	2:M:1071:ILE:HG12	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:523:ASP:O	3:N:526:PRO:HG3	2.04	0.57
2:C:137:VAL:O	2:C:391:LEU:HD11	2.04	0.57
3:D:388:HIS:NE2	5:F:94:LEU:HG	2.19	0.57
2:M:1050:GLN:O	2:M:1053:LEU:N	2.35	0.57
3:D:970:LYS:HA	3:D:973:GLN:NE2	2.18	0.57
2:M:534:VAL:H	2:M:538:GLN:NE2	2.03	0.57
1:A:131:THR:C	1:A:132:LEU:HD12	2.25	0.57
5:F:287:THR:C	5:F:289:GLU:H	2.07	0.57
3:D:1494:ALA:HA	3:D:1497:GLU:HG2	1.87	0.57
3:D:1229:ILE:HD11	3:D:1367:HIS:C	2.25	0.57
1:A:1:MET:CB	1:A:6:LEU:HB2	2.34	0.57
1:K:6:LEU:C	1:K:8:ALA:H	2.06	0.57
3:N:660:LYS:HA	3:N:663:GLU:OE2	2.04	0.57
3:N:879:ARG:HB3	3:N:902:LEU:HB2	1.86	0.57
5:P:361:LEU:CD2	5:P:408:LEU:HB2	2.24	0.57
1:A:43:ILE:HD11	1:B:35:THR:CG2	2.25	0.57
2:M:86:LYS:O	2:M:88:LEU:N	2.33	0.57
3:D:994:GLN:NE2	3:D:998:GLU:CD	2.57	0.57
2:M:838:LYS:CG	2:M:997:LEU:HB2	2.34	0.57
3:N:631:ILE:HD13	3:N:745:MET:HG3	1.87	0.57
2:M:863:ASP:CG	2:M:865:THR:HG22	2.24	0.57
2:M:625:LEU:O	2:M:627:ARG:N	2.36	0.57
3:N:989:TYR:CE2	3:N:1243:THR:HG21	2.38	0.57
1:A:198:ARG:C	1:A:199:ILE:HD12	2.25	0.57
3:D:34:TYR:HE2	5:F:260:ILE:HG13	1.70	0.57
2:M:350:ARG:NH1	2:M:350:ARG:HG2	2.19	0.57
3:N:1229:ILE:HD11	3:N:1368:ILE:HA	1.86	0.57
3:N:1144:LEU:HD11	3:N:1186:VAL:HG21	1.87	0.57
3:D:15:PRO:O	3:D:19:ARG:HG3	2.04	0.57
3:N:810:GLU:O	3:N:813:LEU:HG	2.04	0.57
1:A:67:THR:HG21	2:C:609:ASN:ND2	2.20	0.57
1:A:32:PHE:C	1:A:34:VAL:N	2.58	0.57
3:N:136:ASP:HB3	3:N:137:PRO:CD	2.27	0.57
3:N:227:LEU:H	3:N:227:LEU:HD13	1.69	0.57
5:P:88:ILE:HG21	5:P:193:ARG:HH11	1.68	0.57
2:M:1030:GLN:HB2	3:N:626:SER:HB3	1.85	0.57
2:M:368:THR:HB	2:M:369:PRO:CD	2.33	0.57
2:M:605:LYS:O	2:M:611:ILE:HA	2.04	0.57
3:D:1372:VAL:HA	3:D:1375:MET:HE3	1.86	0.57
2:C:198:ARG:HD3	2:C:198:ARG:O	2.04	0.57
3:D:1109:GLU:HG2	3:D:1201:CYS:CB	2.33	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:101:LEU:HD23	1:B:101:LEU:C	2.24	0.57
1:L:176:ARG:HH22	3:N:884:ARG:HD3	1.69	0.57
2:C:564:MET:CE	2:C:846:LYS:HE2	2.34	0.57
3:N:1364:HIS:CE1	3:N:1366:LYS:HG3	2.40	0.57
5:P:151:LEU:HB2	5:P:155:THR:CB	2.34	0.57
3:N:1401:GLU:O	3:N:1405:GLU:HG2	2.05	0.57
4:O:88:GLU:O	4:O:92:ILE:HG12	2.04	0.57
1:K:63:HIS:HD2	1:K:65:PHE:H	1.50	0.57
3:N:1385:GLY:HA2	3:N:1413:THR:HG21	1.86	0.57
2:C:858:MET:HB2	2:C:859:PRO:HD2	1.87	0.57
4:O:36:LYS:C	4:O:38:THR:H	2.08	0.57
4:O:36:LYS:HA	4:O:36:LYS:HE2	1.86	0.57
4:O:54:LEU:HA	4:O:58:PRO:HG2	1.85	0.57
1:A:23:PHE:O	1:A:196:THR:HA	2.05	0.57
5:F:94:LEU:HB2	5:F:98:GLU:OE1	2.04	0.57
3:N:116:LEU:CB	3:N:118:LEU:HD13	2.34	0.57
2:C:265:ARG:CG	2:C:288:ARG:HG3	2.28	0.57
2:C:1070:ILE:O	2:C:1073:GLY:N	2.37	0.57
3:D:970:LYS:HD2	3:D:995:LEU:HD13	1.87	0.57
1:K:39:PRO:HG3	1:L:39:PRO:CG	2.33	0.57
1:K:39:PRO:HA	1:L:35:THR:HG23	1.86	0.57
2:M:77:PRO:HD3	2:M:93:PRO:CD	2.32	0.57
2:M:73:LEU:HD23	2:M:94:LEU:HA	1.86	0.57
3:N:948:THR:C	3:N:949:ILE:HG13	2.25	0.57
3:N:591:VAL:CA	3:N:600:LEU:HD21	2.33	0.57
3:D:220:ARG:HA	3:D:367:ILE:HG22	1.86	0.57
2:M:266:ARG:CG	2:M:273:GLY:HA3	2.34	0.57
2:M:641:PRO:O	2:M:642:ARG:HD3	2.04	0.57
3:D:698:LYS:HA	3:D:756:GLN:NE2	2.20	0.57
1:A:44:LEU:O	1:A:174:VAL:HG21	2.05	0.57
5:F:358:LEU:HD21	5:F:370:LYS:NZ	2.19	0.57
2:C:471:TYR:HE2	2:C:496:ILE:HG21	1.66	0.57
3:D:792:ILE:HG21	3:D:941:PHE:CD1	2.40	0.57
1:L:2:LEU:CD1	1:L:3:ASP:H	2.17	0.57
3:N:1489:GLN:HE21	3:N:1489:GLN:HA	1.70	0.57
2:M:237:ARG:O	2:M:240:THR:HB	2.03	0.57
2:M:462:ASP:OD2	2:M:466:PHE:HB2	2.04	0.57
5:P:369:LEU:HB3	5:P:373:LYS:HD3	1.86	0.57
5:P:243:ILE:O	5:P:247:ILE:HG13	2.04	0.57
2:M:1085:PHE:O	2:M:1088:LEU:N	2.37	0.57
2:C:279:GLU:OE2	2:C:489:THR:HG21	2.05	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:549:PHE:O	2:C:550:LEU:C	2.43	0.57
3:D:216:VAL:HG12	3:D:217:LYS:H	1.68	0.57
1:K:122:ILE:O	1:K:125:PRO:HD3	2.05	0.57
2:C:110:GLU:CG	2:C:369:PRO:HG3	2.30	0.57
2:M:91:GLN:HE21	2:M:119:PRO:HG3	1.69	0.57
3:N:1114:THR:HB	3:N:1195:GLN:HB2	1.86	0.57
3:N:679:ARG:HB2	3:N:682:ASP:OD1	2.05	0.57
2:C:895:TYR:HD2	2:C:896:PHE:CD1	2.23	0.57
3:N:539:ASP:OD2	3:N:598:ARG:NH2	2.37	0.57
2:C:15:LEU:HD22	2:C:583:LEU:CD2	2.35	0.57
1:L:176:ARG:H	1:L:200:TRP:HB3	1.70	0.57
3:D:1372:VAL:HG22	3:D:1375:MET:HE3	1.86	0.57
1:A:227:ASN:HD22	1:A:227:ASN:N	2.02	0.57
2:C:309:TYR:O	2:C:313:LEU:N	2.37	0.57
5:P:273:ARG:O	5:P:276:ARG:HB2	2.04	0.57
3:N:540:LEU:HA	3:N:543:LEU:CD1	2.35	0.57
3:N:1372:VAL:HA	3:N:1375:MET:HE2	1.86	0.57
2:C:758:ARG:HG2	2:C:759:THR:N	2.20	0.57
2:C:1045:ALA:HA	3:D:758:GLU:OE2	2.05	0.57
2:C:160:ALA:HB3	2:C:174:LEU:HB2	1.87	0.57
3:N:44:LEU:CB	3:N:525:ARG:HH22	2.12	0.57
3:D:1264:GLU:O	3:D:1266:ARG:HD2	2.04	0.57
2:C:291:ALA:O	2:C:292:ARG:HB2	2.03	0.57
2:C:470:PRO:HG3	2:C:485:TYR:CE2	2.40	0.57
2:C:606:VAL:HG11	2:C:643:VAL:O	2.05	0.57
5:P:174:LEU:O	5:P:177:ALA:HB3	2.04	0.57
1:B:107:LYS:O	1:B:132:LEU:HB2	2.05	0.57
3:N:828:LYS:HD2	3:N:862:ASP:OD2	2.04	0.57
3:D:10:ILE:HG22	3:D:1451:ALA:HA	1.85	0.57
2:C:129:ILE:O	2:C:130:ASN:OD1	2.22	0.57
1:L:176:ARG:HH22	3:N:884:ARG:NE	2.03	0.57
3:D:960:LYS:HE3	3:D:1040:GLY:O	2.03	0.57
2:M:92:ALA:HB2	2:M:120:LEU:HD11	1.86	0.57
3:D:432:TYR:HB3	3:D:448:GLU:HG2	1.86	0.57
1:A:31:GLY:HA2	1:A:193:ASP:OD2	2.05	0.57
3:D:179:VAL:CG1	3:D:389:GLU:HG3	2.33	0.57
3:N:714:GLN:HE22	3:N:732:VAL:CG1	2.17	0.57
5:F:138:SER:OG	5:F:140:ARG:HG2	2.05	0.57
3:N:892:ASP:OD2	3:N:895:VAL:HG21	2.05	0.57
3:N:104:PHE:N	3:N:104:PHE:HD2	2.03	0.57
1:A:144:VAL:HG12	1:A:145:ASP:H	1.67	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:P:302:LYS:HD2	5:P:302:LYS:C	2.26	0.57
5:P:79:ASP:HB3	5:P:80:PRO:HD3	1.87	0.57
3:D:237:LYS:CB	3:D:238:PRO:HD3	2.35	0.57
3:N:1412:LYS:O	3:N:1412:LYS:HG3	2.04	0.57
1:B:167:VAL:HG12	1:B:168:ASP:N	2.20	0.57
2:M:46:ALA:O	2:M:50:GLU:HB2	2.05	0.57
2:M:211:LEU:HD11	2:M:308:ARG:HB2	1.86	0.57
2:C:855:VAL:HG13	2:C:856:GLU:N	2.20	0.56
3:N:177:ALA:O	3:N:199:LEU:HD13	2.05	0.56
3:N:39:PRO:HG2	3:N:47:GLU:HG3	1.87	0.56
3:D:109:PRO:O	3:D:111:LYS:N	2.38	0.56
4:O:26:ARG:HH22	4:O:39:VAL:HG13	1.68	0.56
3:N:568:ARG:O	3:N:570:GLU:N	2.38	0.56
1:K:87:VAL:HG21	1:K:144:VAL:HG11	1.86	0.56
3:N:1108:ARG:NH2	3:N:1198:TYR:O	2.37	0.56
2:M:473:ARG:HG2	2:M:473:ARG:HH11	1.68	0.56
3:N:1043:GLY:O	3:N:1056:PRO:HA	2.05	0.56
3:D:1086:LEU:CD2	6:D:1525:STD:H113	2.33	0.56
2:M:428:ARG:HE	2:M:449:ILE:HG23	1.70	0.56
3:N:104:PHE:N	3:N:104:PHE:CD2	2.72	0.56
3:D:1147:ARG:O	3:D:1166:LEU:N	2.32	0.56
3:N:76:CYS:SG	3:N:76:CYS:O	2.62	0.56
1:K:13:VAL:CG1	1:K:14:ARG:N	2.68	0.56
5:F:278:LEU:HB3	5:F:286:PRO:HG3	1.87	0.56
2:C:713:ARG:HB3	2:C:713:ARG:HH11	1.68	0.56
1:B:75:VAL:O	1:B:79:ILE:HG12	2.05	0.56
5:P:287:THR:CG2	5:P:290:GLU:HB2	2.35	0.56
2:M:715:THR:HG22	2:M:717:LEU:H	1.68	0.56
5:P:271:LEU:O	5:P:275:ALA:HB2	2.05	0.56
2:M:135:VAL:HB	2:M:406:HIS:CE1	2.39	0.56
3:D:1096:ARG:HB2	3:D:1096:ARG:NH1	2.20	0.56
1:A:13:VAL:HG12	1:A:14:ARG:H	1.70	0.56
2:M:878:SER:HB3	3:N:1029:ARG:NE	2.20	0.56
5:P:196:VAL:HG13	5:P:213:ILE:CD1	2.35	0.56
2:C:1011:GLY:O	2:C:1013:TYR:CE2	2.58	0.56
1:A:142:VAL:O	1:A:142:VAL:HG23	2.05	0.56
3:N:590:PRO:O	3:N:600:LEU:HG	2.05	0.56
1:L:216:GLU:OE2	1:L:219:ARG:NH2	2.38	0.56
2:C:813:VAL:CG2	2:C:815:LEU:HD13	2.35	0.56
5:F:234:LYS:HD2	5:F:236:SER:H	1.69	0.56
3:D:624:ASP:HB3	3:D:625:TYR:CD1	2.40	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:475:LYS:HA	3:D:478:LEU:HD12	1.87	0.56
2:C:51:THR:HB	2:C:348:LEU:HD23	1.86	0.56
2:C:1031:ARG:HD3	3:D:619:LEU:HD21	1.87	0.56
4:O:40:LEU:HD13	4:O:45:ARG:HD2	1.87	0.56
3:N:187:LYS:HZ3	3:N:212:ARG:HA	1.70	0.56
3:D:131:LYS:HD3	5:F:83:GLN:NE2	2.21	0.56
5:F:85:LEU:O	5:F:89:GLY:N	2.33	0.56
3:N:368:VAL:CG2	3:N:369:ALA:H	2.08	0.56
2:M:1038:TRP:HA	2:M:1041:GLU:OE1	2.04	0.56
4:E:54:LEU:CB	4:E:58:PRO:HG2	2.36	0.56
3:N:777:PRO:HD2	3:N:912:LYS:HG2	1.87	0.56
2:M:288:ARG:NE	2:M:288:ARG:CA	2.69	0.56
2:C:95:TYR:HB3	2:C:113:VAL:C	2.25	0.56
1:K:206:THR:HG22	1:K:209:GLU:HB2	1.87	0.56
3:D:218:LYS:HD3	3:D:371:ILE:H	1.68	0.56
3:N:1396:GLU:HA	3:N:1399:ASP:CG	2.26	0.56
3:N:840:LYS:HD2	3:N:841:TYR:CZ	2.40	0.56
2:M:52:PHE:O	2:M:54:ILE:N	2.38	0.56
2:C:876:VAL:N	2:C:877:PRO:HD2	2.19	0.56
2:C:829:GLN:CD	2:C:831:ARG:HD3	2.26	0.56
3:D:160:GLU:HG2	3:D:165:LYS:HD3	1.88	0.56
2:C:452:ILE:N	2:C:452:ILE:HD12	2.20	0.56
2:C:690:ILE:HG22	2:C:691:SER:N	2.19	0.56
3:D:493:ARG:HB2	3:D:493:ARG:NH1	2.19	0.56
4:E:26:ARG:NE	4:E:30:LEU:HD13	2.21	0.56
2:C:368:THR:HB	2:C:369:PRO:CD	2.30	0.56
5:F:386:VAL:C	5:F:388:ALA:H	2.09	0.56
2:C:21:ILE:H	2:C:21:ILE:CD1	2.10	0.56
2:C:525:SER:OG	2:C:528:GLU:HG3	2.04	0.56
2:M:1045:ALA:HB2	3:N:763:MET:SD	2.45	0.56
2:M:580:MET:HB3	2:M:584:GLU:OE1	2.05	0.56
3:D:675:ARG:NH2	5:F:420:ASP:HB3	2.21	0.56
3:D:1103:HIS:HD2	3:D:1462:LEU:H	1.54	0.56
1:L:101:LEU:HB3	1:L:140:MET:SD	2.45	0.56
2:M:1103:ASP:CG	2:M:1104:GLU:N	2.58	0.56
3:N:1217:ILE:HD12	3:N:1480:PHE:CE2	2.41	0.56
2:M:13:ILE:HG13	2:M:13:ILE:O	2.04	0.56
2:M:917:LEU:HA	2:M:920:GLN:HG3	1.88	0.56
2:C:715:THR:HG22	2:C:716:LYS:N	2.20	0.56
3:N:82:LYS:HZ2	5:P:339:PRO:HG2	1.70	0.56
2:C:19:THR:HG22	2:C:19:THR:O	2.04	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:516:ARG:HH11	2:C:521:PRO:CA	2.18	0.56
3:D:994:GLN:NE2	3:D:998:GLU:OE2	2.38	0.56
2:C:657:ASP:HB3	2:C:661:SER:HB2	1.87	0.56
3:D:232:GLU:O	3:D:232:GLU:HG3	2.05	0.56
1:A:109:VAL:HG21	1:A:138:LEU:HD23	1.86	0.56
3:D:809:PRO:HB2	3:D:812:ALA:HB2	1.88	0.56
2:M:443:THR:HB	2:M:444:PRO:HD2	1.87	0.56
2:C:300:ASP:C	2:C:302:VAL:H	2.08	0.56
3:N:1012:GLU:HG3	3:N:1021:TYR:OH	2.04	0.56
2:M:939:ARG:NH1	2:M:981:GLU:HG2	2.21	0.56
1:A:226:SER:O	1:A:228:PRO:HD3	2.05	0.56
3:D:650:LEU:HD13	3:D:688:TRP:HZ3	1.70	0.56
3:D:1503:VAL:O	3:D:1505:ALA:N	2.39	0.56
3:D:537:THR:O	3:D:537:THR:HG23	2.04	0.56
2:C:45:GLN:NE2	2:C:68:PHE:HE2	2.02	0.56
3:N:1148:VAL:O	3:N:1188:VAL:HG23	2.04	0.56
5:P:160:ASP:HA	5:P:163:LEU:HD12	1.87	0.56
3:N:1042:ARG:NH1	3:N:1045:MET:SD	2.70	0.56
2:C:1033:GLY:O	2:C:1036:GLU:HB2	2.06	0.56
2:M:44:ILE:HD12	2:M:44:ILE:N	2.20	0.56
2:C:588:VAL:CG2	2:C:589:ARG:H	2.18	0.56
2:M:978:ARG:HG3	2:M:978:ARG:HH11	1.70	0.56
3:D:806:PHE:CE1	3:D:809:PRO:O	2.58	0.56
1:B:58:ILE:HG21	1:B:68:ILE:CD1	2.36	0.56
2:M:755:LEU:O	2:M:756:VAL:CG2	2.54	0.56
2:C:1043:TYR:CE1	3:D:710:ARG:O	2.59	0.56
2:M:722:ILE:CD1	2:M:823:VAL:HG21	2.35	0.56
2:M:881:ASN:N	2:M:881:ASN:HD22	2.04	0.56
2:C:636:ALA:HB2	2:C:705:ILE:HD11	1.88	0.56
3:D:1438:ALA:C	3:D:1440:PHE:H	2.09	0.56
3:N:1493:LYS:O	3:N:1497:GLU:HG2	2.04	0.56
2:M:750:LYS:HB2	3:N:681:ARG:NH2	2.21	0.56
3:N:844:ALA:O	3:N:867:ARG:HB3	2.06	0.56
5:F:156:VAL:HG23	5:F:157:GLU:H	1.71	0.56
2:M:878:SER:HB3	3:N:1029:ARG:CD	2.35	0.56
5:P:398:ARG:HD3	5:P:399:GLN:HG2	1.85	0.56
3:D:592:THR:OG1	3:D:600:LEU:HD21	2.05	0.56
2:C:211:LEU:HD13	2:C:304:LEU:HD11	1.88	0.56
3:D:1237:THR:HG22	3:D:1238:MET:N	2.21	0.56
2:C:276:LYS:H	2:C:276:LYS:HD2	1.71	0.56
2:C:838:LYS:O	2:C:839:LEU:HD23	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:54:THR:CG2	1:B:143:ARG:HG2	2.36	0.56
2:M:97:ARG:HH21	2:M:109:LYS:NZ	2.03	0.56
3:N:1295:GLU:HB3	3:N:1300:SER:HA	1.86	0.56
3:D:85:VAL:HB	3:D:89:ARG:NE	2.21	0.56
3:D:571:LYS:HB2	3:D:571:LYS:HZ3	1.71	0.56
3:N:183:GLU:OE2	3:N:216:VAL:HG13	2.06	0.56
5:P:134:LYS:O	5:P:178:ARG:HD3	2.04	0.56
2:M:371:LYS:O	2:M:372:LEU:HD23	2.05	0.56
2:M:549:PHE:HA	2:M:551:GLU:OE2	2.05	0.56
2:M:1005:MET:O	2:M:1005:MET:HG3	2.05	0.56
2:M:676:ILE:O	2:M:676:ILE:HG23	2.06	0.56
2:M:974:LEU:HB3	2:M:983:ILE:HG13	1.87	0.56
2:M:194:VAL:HG21	2:M:221:LEU:HA	1.88	0.56
3:N:1267:ARG:HA	3:N:1331:ASP:OD2	2.06	0.56
1:L:13:VAL:HG13	1:L:22:GLU:O	2.05	0.56
2:M:839:LEU:HD21	2:M:849:VAL:CG2	2.36	0.56
2:M:313:LEU:C	2:M:315:ALA:H	2.09	0.56
2:C:615:TYR:HB3	2:C:617:ASP:OD2	2.06	0.56
5:P:287:THR:HG23	5:P:290:GLU:H	1.71	0.56
2:M:1055:LEU:HD21	2:M:1079:PRO:HG3	1.87	0.56
2:M:1071:ILE:O	3:N:659:LYS:HD3	2.05	0.56
3:N:32:ILE:HG22	3:N:33:ASN:N	2.21	0.56
3:N:84:ILE:C	3:N:86:ARG:H	2.08	0.56
3:D:173:PRO:HG2	3:D:200:ASP:HB3	1.88	0.56
2:C:676:ILE:HG23	2:C:988:VAL:HG13	1.88	0.56
5:F:84:TYR:HB3	5:F:88:ILE:CD1	2.35	0.56
2:C:874:LEU:HD23	3:D:1023:MET:SD	2.45	0.56
3:D:1273:VAL:CG2	3:D:1305:LEU:HD21	2.36	0.56
2:M:77:PRO:CD	2:M:93:PRO:HD3	2.32	0.56
4:E:9:LEU:HB3	4:E:19:LEU:CD2	2.34	0.56
1:A:44:LEU:HA	1:A:48:ILE:HD11	1.86	0.56
2:C:116:GLY:HA2	2:C:379:GLU:CD	2.26	0.56
3:D:78:VAL:C	3:D:79:GLU:O	2.42	0.56
1:B:62:LEU:HD12	1:B:62:LEU:H	1.71	0.56
5:F:345:ALA:O	5:F:348:SER:HB3	2.05	0.56
2:M:1105:LYS:O	2:M:1107:ASN:N	2.39	0.56
3:N:1048:PRO:O	3:N:1049:SER:O	2.24	0.56
3:D:1020:LEU:HA	3:D:1023:MET:CE	2.35	0.56
3:N:984:THR:HG22	3:N:987:GLU:CB	2.26	0.56
2:M:1036:GLU:HG3	3:N:703:ASN:OD1	2.06	0.56
2:M:470:PRO:O	2:M:471:TYR:CG	2.59	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:91:ASN:CG	1:A:92:PRO:HD2	2.26	0.56
3:D:63:TYR:O	3:D:64:LYS:HG3	2.05	0.56
3:D:711:LEU:HG	3:D:778:LEU:HD23	1.87	0.56
3:D:820:GLU:HG3	3:D:836:VAL:CG2	2.35	0.56
3:D:1335:LEU:HD23	3:D:1335:LEU:O	2.06	0.56
2:M:256:TYR:CZ	2:M:293:PHE:HB2	2.41	0.56
2:C:881:ASN:H	2:C:881:ASN:ND2	2.04	0.56
5:F:184:ARG:O	5:F:188:ILE:HG13	2.06	0.56
2:C:199:VAL:O	2:C:199:VAL:HG12	2.06	0.56
2:M:666:LEU:HG	2:M:668:LEU:HD11	1.86	0.56
1:K:23:PHE:HB2	1:K:197:LEU:HD23	1.87	0.56
3:D:1404:ASN:ND2	3:D:1408:ILE:HD12	2.21	0.56
2:C:816:LYS:HE2	2:C:819:VAL:HG21	1.87	0.56
2:M:1063:ARG:O	2:M:1066:ALA:HB3	2.06	0.55
3:D:1264:GLU:O	3:D:1265:ALA:C	2.44	0.55
3:N:162:ARG:HB2	3:N:434:ARG:HH21	1.71	0.55
4:E:39:VAL:HG22	4:E:67:GLU:CD	2.26	0.55
2:M:89:THR:HG23	2:M:129:ILE:HA	1.87	0.55
1:A:99:LEU:N	1:A:99:LEU:CD1	2.68	0.55
1:K:39:PRO:HG3	1:L:39:PRO:HG3	1.88	0.55
2:M:1003:ASP:O	2:M:1005:MET:N	2.39	0.55
3:D:57:GLU:HG3	3:D:64:LYS:HG2	1.88	0.55
3:N:820:GLU:HG2	3:N:825:ALA:O	2.05	0.55
1:A:100:LEU:HB2	1:A:115:LEU:HD11	1.88	0.55
1:A:64:GLU:O	1:A:76:VAL:HG22	2.06	0.55
3:D:47:GLU:HA	3:D:51:GLY:O	2.05	0.55
3:N:186:VAL:HG13	3:N:187:LYS:N	2.20	0.55
2:M:876:VAL:HB	2:M:877:PRO:CD	2.34	0.55
2:M:572:ILE:HD11	2:M:701:THR:HB	1.86	0.55
2:C:1096:ALA:O	3:D:13:ALA:HB3	2.06	0.55
3:D:651:GLU:OE1	3:D:654:LYS:HD2	2.05	0.55
3:D:659:LYS:HD3	3:D:659:LYS:O	2.05	0.55
5:P:184:ARG:HH21	5:P:221:ILE:CG2	2.19	0.55
1:B:206:THR:N	1:B:209:GLU:OE1	2.34	0.55
3:N:1278:ASP:HB3	3:N:1321:ALA:N	2.22	0.55
1:A:97:VAL:HG12	1:A:98:THR:N	2.21	0.55
3:D:902:LEU:H	3:D:902:LEU:CD2	2.14	0.55
2:M:114:PHE:CE1	5:P:283:GLY:HA3	2.42	0.55
3:N:645:PRO:O	3:N:648:MET:N	2.39	0.55
2:C:1003:ASP:O	2:C:1005:MET:N	2.39	0.55
2:M:146:VAL:HG12	2:M:162:ILE:HG12	1.87	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:963:LEU:O	2:M:967:PHE:HB2	2.06	0.55
3:D:8:VAL:HG12	3:D:1434:TRP:HH2	1.71	0.55
3:D:374:GLU:CG	3:D:386:HIS:HA	2.35	0.55
2:M:428:ARG:HE	2:M:449:ILE:CG2	2.19	0.55
5:F:366:ALA:HB3	5:F:367:MET:HE2	1.87	0.55
2:C:949:LYS:HE2	3:D:828:LYS:NZ	2.22	0.55
1:L:57:TYR:O	1:L:140:MET:HB2	2.06	0.55
3:D:1146:GLY:HA3	3:D:1207:TYR:CB	2.37	0.55
2:M:922:PHE:CE2	2:M:964:LYS:HB2	2.40	0.55
1:A:1:MET:O	1:A:6:LEU:HD22	2.05	0.55
2:C:233:GLU:OE1	2:C:237:ARG:HB2	2.07	0.55
3:D:605:ASP:OD1	3:D:605:ASP:N	2.37	0.55
1:L:156:HIS:ND1	1:L:158:ILE:HG12	2.21	0.55
3:N:854:ALA:C	3:N:856:GLY:H	2.08	0.55
5:F:164:LYS:HA	5:F:171:LYS:NZ	2.21	0.55
2:C:1058:ASP:OD2	2:C:1083:GLU:HB2	2.06	0.55
3:N:209:ARG:HB3	3:N:396:VAL:O	2.07	0.55
1:A:67:THR:HG22	2:C:627:ARG:CZ	2.37	0.55
3:D:1191:PRO:HG3	3:D:1204:CYS:O	2.06	0.55
1:B:86:VAL:HG12	1:B:124:ASN:CG	2.25	0.55
2:M:170:PRO:HB3	2:M:172:ILE:HD11	1.87	0.55
3:N:426:LYS:HD3	5:P:134:LYS:HA	1.88	0.55
3:N:669:ASN:HD21	3:N:671:LYS:HB2	1.71	0.55
1:K:79:ILE:O	1:K:83:LYS:HG3	2.07	0.55
2:M:745:ILE:HD13	2:M:745:ILE:H	1.71	0.55
3:D:866:VAL:HG12	3:D:867:ARG:N	2.19	0.55
3:N:1307:LYS:O	3:N:1309:ALA:N	2.37	0.55
3:D:1062:ARG:CG	3:D:1062:ARG:HH11	1.97	0.55
2:C:516:ARG:HH11	2:C:521:PRO:HB3	1.68	0.55
3:N:214:GLU:HG2	3:N:215:TYR:CE1	2.41	0.55
5:P:134:LYS:HG3	5:P:160:ASP:OD2	2.05	0.55
2:M:265:ARG:H	2:M:289:THR:HG21	1.72	0.55
1:A:99:LEU:HB2	1:A:142:VAL:HG23	1.87	0.55
3:N:1115:THR:HG21	3:N:1151:ARG:HH21	1.71	0.55
3:N:675:ARG:HA	3:N:678:GLU:OE2	2.06	0.55
3:D:10:ILE:HG13	3:D:1434:TRP:CH2	2.41	0.55
1:A:41:ARG:HG3	1:A:177:VAL:HB	1.88	0.55
4:E:25:LYS:HA	4:E:28:GLN:CD	2.25	0.55
2:C:1024:LYS:NZ	2:C:1024:LYS:HB2	2.21	0.55
3:D:1264:GLU:HG2	3:D:1266:ARG:NE	2.21	0.55
3:N:133:ILE:HG21	3:N:454:ALA:CB	2.30	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:992:ILE:O	3:D:995:LEU:HB3	2.06	0.55
3:N:560:GLN:HA	3:N:560:GLN:NE2	2.21	0.55
3:D:1314:LYS:HD3	3:D:1314:LYS:N	2.22	0.55
3:N:678:GLU:HG3	3:N:679:ARG:HG3	1.89	0.55
2:M:548:PRO:CG	2:M:842:ARG:NH2	2.68	0.55
2:C:683:ASN:ND2	2:C:872:ASN:HB2	2.22	0.55
2:C:572:ILE:HD11	2:C:701:THR:HB	1.89	0.55
2:C:715:THR:HG22	2:C:716:LYS:H	1.72	0.55
1:L:42:ARG:HG2	1:L:42:ARG:HH11	1.71	0.55
2:C:167:LYS:HD3	2:C:167:LYS:O	2.06	0.55
2:M:880:MET:HE1	3:N:1034:GLN:HG2	1.88	0.55
3:D:1175:ILE:O	3:D:1179:GLU:HG2	2.06	0.55
2:M:1014:SER:HB3	2:M:1017:THR:HG23	1.88	0.55
3:D:400:VAL:HG13	3:D:442:ASN:O	2.05	0.55
3:D:401:TYR:N	3:D:402:PRO:HD3	2.21	0.55
3:D:129:PHE:H	3:D:129:PHE:HD1	1.54	0.55
2:C:1070:ILE:HD11	3:D:751:LEU:HD22	1.88	0.55
3:D:138:LYS:HE3	3:D:138:LYS:H	1.72	0.55
2:M:18:LEU:CA	2:M:408:ARG:HH21	2.18	0.55
3:N:701:LEU:HD21	3:N:763:MET:HE3	1.87	0.55
3:N:837:GLY:O	3:N:864:VAL:HA	2.07	0.55
3:N:1435:LEU:HD23	3:N:1464:GLU:HB2	1.88	0.55
1:L:143:ARG:HD3	1:L:158:ILE:HG21	1.88	0.55
2:C:421:GLU:OE1	2:C:421:GLU:O	2.25	0.55
5:F:300:ASP:CG	5:F:301:ALA:H	2.09	0.55
1:A:42:ARG:NH1	2:C:978:ARG:HA	2.21	0.55
2:C:911:GLU:O	2:C:915:LYS:HG2	2.06	0.55
3:N:654:LYS:O	3:N:657:LEU:HB3	2.07	0.55
5:F:209:PHE:O	5:F:213:ILE:HG13	2.06	0.55
3:N:1209:LEU:HD23	3:N:1211:MET:SD	2.47	0.55
1:A:206:THR:HG22	1:A:209:GLU:N	2.18	0.55
3:N:10:ILE:O	3:N:1454:GLY:HA2	2.07	0.55
3:N:141:ILE:CG2	3:N:142:LEU:H	2.14	0.55
3:N:596:SER:C	3:N:598:ARG:H	2.09	0.55
1:L:223:THR:C	1:L:225:PHE:H	2.09	0.55
3:D:1063:GLU:CG	3:D:1064:GLY:N	2.70	0.55
5:F:235:PHE:O	5:F:236:SER:C	2.44	0.55
3:N:1155:VAL:HG12	3:N:1156:LEU:N	2.22	0.55
1:A:219:ARG:CG	1:A:219:ARG:HH11	2.20	0.55
3:D:1364:HIS:ND1	3:D:1365:ASP:N	2.54	0.55
3:N:1192:LEU:HD11	3:N:1369:GLU:HG2	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:1102:LEU:O	3:N:5:VAL:HA	2.07	0.55
2:C:860:HIS:HE1	2:C:977:GLY:HA2	1.71	0.55
5:P:319:THR:HG23	5:P:320:PRO:HD2	1.89	0.55
5:P:317:LEU:HA	5:P:329:TYR:HD2	1.72	0.55
3:D:633:VAL:C	3:D:635:PRO:HD3	2.27	0.55
3:N:32:ILE:HG21	3:N:37:LEU:HA	1.89	0.55
1:A:24:VAL:HA	1:A:196:THR:HB	1.88	0.55
2:C:1096:ALA:HB1	3:D:514:LEU:HD21	1.89	0.55
3:N:914:LEU:HD23	3:N:914:LEU:O	2.06	0.55
2:M:437:ARG:O	2:M:467:ILE:HD13	2.07	0.55
3:N:988:ARG:O	3:N:992:ILE:HG13	2.06	0.55
1:L:216:GLU:OE2	1:L:219:ARG:CZ	2.54	0.55
3:N:1472:ILE:HG22	3:N:1474:ALA:H	1.72	0.55
1:L:111:ALA:CB	1:L:127:LEU:HB3	2.34	0.55
3:D:72:VAL:CG1	3:D:73:CYS:H	2.20	0.55
2:C:1052:MET:HG3	3:D:623:VAL:HG22	1.88	0.55
5:P:276:ARG:HG3	5:P:276:ARG:NH1	2.20	0.55
2:M:918:LEU:HD23	2:M:968:LEU:HA	1.89	0.55
3:N:382:GLU:HG2	3:N:383:GLY:H	1.68	0.55
2:M:899:GLN:O	2:M:899:GLN:HG3	2.07	0.55
2:M:393:GLN:NE2	2:M:406:HIS:NE2	2.55	0.55
2:M:557:ARG:HG3	2:M:844:GLY:HA3	1.89	0.55
2:M:958:THR:HG23	2:M:961:GLU:HB2	1.89	0.55
2:C:418:LEU:HD22	2:C:418:LEU:N	2.22	0.55
2:C:1083:GLU:OE2	3:D:87:ARG:NH1	2.38	0.55
2:C:1115:LEU:CD1	2:C:1115:LEU:H	2.11	0.55
3:D:423:ASP:CG	5:F:175:HIS:CE1	2.81	0.55
3:D:152:LEU:HD23	3:D:152:LEU:N	2.21	0.55
3:N:709:HIS:NE2	3:N:711:LEU:HD12	2.22	0.55
5:P:134:LYS:HE3	5:P:134:LYS:HA	1.89	0.55
2:M:679:PHE:HZ	2:M:978:ARG:NH1	2.04	0.55
3:N:535:PHE:O	5:P:315:VAL:N	2.37	0.55
3:D:634:GLY:O	3:D:637:LEU:CB	2.55	0.55
3:N:880:ILE:O	3:N:883:ALA:HB3	2.06	0.55
3:N:1365:ASP:HB3	3:N:1369:GLU:OE2	2.06	0.55
2:C:878:SER:O	2:C:880:MET:HG3	2.07	0.55
1:B:77:GLU:HB2	3:D:872:ARG:NH2	2.22	0.55
2:M:602:GLU:HA	2:M:648:ARG:HA	1.89	0.55
3:N:658:LEU:HD11	3:N:674:ARG:NH1	2.22	0.55
3:N:786:ILE:CG2	3:N:1026:SER:HB2	2.37	0.55
3:D:127:LEU:CD2	3:D:461:ILE:HD11	2.36	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:79:ASP:HB3	5:F:80:PRO:CD	2.30	0.55
3:D:477:LEU:HD11	3:D:495:ARG:HD3	1.89	0.55
5:P:358:LEU:HD21	5:P:370:LYS:HZ2	1.70	0.55
3:D:857:ILE:HG22	3:D:858:VAL:CG2	2.36	0.55
2:M:1043:TYR:CD2	3:N:763:MET:HG3	2.41	0.55
3:N:699:VAL:H	3:N:756:GLN:HE22	1.54	0.55
2:M:987:ILE:HG23	3:N:948:THR:CG2	2.34	0.55
3:D:225:LEU:HD22	3:D:225:LEU:H	1.72	0.55
2:C:862:PRO:HG2	2:C:925:TYR:OH	2.07	0.55
3:N:465:LEU:O	3:N:468:LEU:HG	2.07	0.55
1:B:101:LEU:HD11	1:B:113:ASP:HB2	1.88	0.55
2:C:585:GLU:HG2	2:C:665:PHE:CD2	2.42	0.55
3:D:653:PHE:CZ	3:D:695:ILE:HD11	2.41	0.55
2:M:913:GLU:O	2:M:916:GLU:HB3	2.07	0.55
2:M:756:VAL:O	2:M:789:SER:HB3	2.06	0.55
5:F:234:LYS:HD2	5:F:236:SER:CB	2.37	0.55
3:N:1155:VAL:HG21	3:N:1183:ILE:HD11	1.89	0.55
3:N:1372:VAL:HG13	3:N:1375:MET:CE	2.37	0.55
3:N:1192:LEU:HD22	3:N:1345:GLU:OE2	2.07	0.55
1:L:45:LEU:HD21	1:L:177:VAL:HG23	1.89	0.55
1:A:212:ASN:O	1:A:215:VAL:HG22	2.06	0.55
2:M:704:HIS:HB2	2:M:831:ARG:NH2	2.21	0.55
2:C:487:THR:HG22	2:C:488:ALA:N	2.22	0.54
3:N:179:VAL:HG21	3:N:217:LYS:CE	2.37	0.54
5:P:101:GLU:O	5:P:104:ARG:HB3	2.07	0.54
3:N:1393:GLN:HB2	3:N:1398:TRP:CE2	2.41	0.54
3:D:218:LYS:CD	3:D:372:ASP:OD1	2.54	0.54
3:D:728:LEU:HD11	3:D:732:VAL:HG21	1.88	0.54
2:M:197:LEU:HD13	2:M:207:LEU:HD11	1.87	0.54
2:M:376:ARG:HA	2:M:376:ARG:HE	1.73	0.54
1:K:181:VAL:HG12	2:M:938:LYS:HD2	1.89	0.54
3:N:231:VAL:CA	3:N:378:ILE:HG12	2.37	0.54
5:P:156:VAL:HG13	5:P:157:GLU:N	2.21	0.54
2:M:524:VAL:HG22	2:M:525:SER:N	2.23	0.54
2:M:51:THR:O	2:M:51:THR:HG22	2.06	0.54
2:C:1105:LYS:HB2	2:C:1107:ASN:HD22	1.72	0.54
2:M:940:GLU:HG3	2:M:973:VAL:HG21	1.88	0.54
3:N:653:PHE:CE2	3:N:695:ILE:HD12	2.43	0.54
2:M:876:VAL:O	2:M:877:PRO:C	2.44	0.54
3:D:945:SER:CB	3:D:947:ILE:HG23	2.37	0.54
3:N:703:ASN:ND2	3:N:713:ILE:HG12	2.22	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:422:ALA:CB	3:N:427:VAL:HG22	2.33	0.54
5:P:138:SER:O	5:P:141:VAL:HG23	2.06	0.54
4:E:54:LEU:HA	4:E:58:PRO:CD	2.37	0.54
3:D:1310:ARG:CG	3:D:1327:ARG:HB3	2.33	0.54
2:M:118:ILE:O	2:M:118:ILE:HG13	2.07	0.54
3:N:840:LYS:NZ	3:N:840:LYS:HB2	2.22	0.54
1:A:101:LEU:HD11	1:A:109:VAL:CG1	2.37	0.54
1:L:222:LEU:O	1:L:225:PHE:HD1	1.89	0.54
3:N:95:LEU:HD12	3:N:515:GLU:CA	2.38	0.54
1:A:144:VAL:O	1:A:145:ASP:OD1	2.26	0.54
2:M:370:ALA:CB	5:P:280:GLN:HG3	2.37	0.54
3:N:1486:VAL:CG1	4:O:73:LEU:HD22	2.37	0.54
2:M:111:ASP:HB3	2:M:112:GLU:OE2	2.08	0.54
5:P:411:HIS:HA	5:P:414:ARG:HH21	1.72	0.54
2:M:1060:ILE:CG1	2:M:1083:GLU:HG3	2.31	0.54
2:C:41:ASN:HA	2:C:45:GLN:HB3	1.89	0.54
3:D:85:VAL:O	3:D:89:ARG:HD2	2.06	0.54
4:O:41:GLU:O	4:O:43:GLU:N	2.40	0.54
5:F:91:VAL:N	5:F:92:PRO:HD3	2.22	0.54
3:D:1196:THR:O	3:D:1197:ARG:O	2.26	0.54
3:D:974:ILE:HD13	3:D:991:GLN:HB3	1.90	0.54
1:K:176:ARG:NH1	2:M:863:ASP:HB2	2.22	0.54
2:C:1007:ALA:O	2:C:1027:PHE:CD2	2.61	0.54
3:D:728:LEU:HD22	3:D:745:MET:HE2	1.87	0.54
2:M:44:ILE:HD12	2:M:44:ILE:H	1.71	0.54
1:B:156:HIS:CD2	1:B:156:HIS:H	2.26	0.54
5:P:278:LEU:CB	5:P:286:PRO:HG2	2.37	0.54
2:C:939:ARG:HA	2:C:939:ARG:HE	1.72	0.54
5:F:148:LYS:HB2	5:F:148:LYS:NZ	2.23	0.54
3:D:1047:LYS:HB3	3:D:1048:PRO:CD	2.37	0.54
3:N:399:ARG:HB2	3:N:402:PRO:HG3	1.87	0.54
5:F:396:ARG:HA	5:F:399:GLN:HB2	1.89	0.54
5:P:196:VAL:O	5:P:200:LYS:HG3	2.06	0.54
3:D:99:ALA:O	3:D:514:LEU:HB2	2.07	0.54
3:D:1393:GLN:HB2	3:D:1398:TRP:HE1	1.72	0.54
2:M:1035:MET:HA	2:M:1038:TRP:CE3	2.42	0.54
3:N:423:ASP:OD2	5:P:178:ARG:HB2	2.07	0.54
2:M:578:VAL:O	2:M:900:ARG:HB3	2.07	0.54
3:N:728:LEU:HD22	3:N:745:MET:SD	2.47	0.54
1:L:102:LYS:HA	1:L:138:LEU:O	2.08	0.54
3:N:1466:VAL:O	3:N:1467:ILE:C	2.45	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:805:ARG:O	2:C:806:LEU:HD23	2.08	0.54
2:C:174:LEU:HD23	2:C:184:MET:HG3	1.89	0.54
1:B:150:TYR:H	3:D:855:HIS:CE1	2.25	0.54
2:C:773:LEU:O	2:C:777:ILE:HG13	2.08	0.54
2:M:599:GLU:HA	2:M:651:LYS:HA	1.88	0.54
3:D:1307:LYS:N	3:D:1307:LYS:HD3	2.23	0.54
2:M:501:THR:HG22	2:M:513:VAL:HG12	1.89	0.54
3:D:186:VAL:HG21	3:D:213:VAL:H	1.72	0.54
3:D:949:ILE:HA	3:D:953:ASP:OD1	2.07	0.54
3:N:373:PRO:HB2	3:N:374:GLU:OE2	2.08	0.54
2:C:413:LEU:H	2:C:413:LEU:CD1	2.00	0.54
2:C:484:VAL:O	2:C:484:VAL:HG12	2.07	0.54
2:M:265:ARG:CG	2:M:288:ARG:HG3	2.32	0.54
3:N:625:TYR:CB	3:N:749:VAL:HG23	2.37	0.54
2:M:521:PRO:HG3	3:N:1068:LEU:CD2	2.36	0.54
3:N:481:MET:HE1	3:N:1389:LEU:HD21	1.89	0.54
3:D:826:PRO:O	3:D:836:VAL:CG1	2.55	0.54
3:N:571:LYS:NZ	3:N:571:LYS:HB2	2.23	0.54
1:A:144:VAL:CG1	1:A:145:ASP:N	2.71	0.54
5:F:368:VAL:HG21	5:F:389:PHE:CE1	2.42	0.54
1:L:133:GLU:HG3	1:L:134:GLU:H	1.73	0.54
5:F:278:LEU:HD13	5:F:286:PRO:HB3	1.90	0.54
2:M:54:ILE:HG22	2:M:66:LEU:HB3	1.88	0.54
3:D:478:LEU:HD22	3:D:1388:ARG:NH2	2.23	0.54
2:M:841:ASN:ND2	2:M:843:HIS:H	2.06	0.54
3:D:650:LEU:HD22	3:D:688:TRP:HH2	1.71	0.54
3:D:586:ARG:HH12	3:D:1444:THR:HG21	1.72	0.54
1:L:62:LEU:CD1	1:L:63:HIS:H	2.20	0.54
1:A:36:LEU:O	1:A:39:PRO:HD2	2.08	0.54
5:P:94:LEU:HB2	5:P:98:GLU:HG3	1.89	0.54
3:N:912:LYS:HB3	3:N:912:LYS:HZ3	1.72	0.54
3:D:245:LEU:HB3	3:D:366:LYS:HE2	1.88	0.54
2:C:1034:GLU:HB3	3:D:618:LEU:O	2.08	0.54
1:K:89:PHE:CZ	1:K:97:VAL:HG23	2.43	0.54
2:C:498:GLN:O	2:C:501:THR:HG23	2.07	0.54
2:C:200:LEU:HD22	2:C:300:ASP:OD1	2.07	0.54
2:M:370:ALA:HB2	5:P:280:GLN:HG3	1.89	0.54
2:C:520:GLU:O	2:C:522:VAL:HG23	2.08	0.54
3:N:1252:ILE:HG22	3:N:1253:THR:N	2.22	0.54
2:C:250:ARG:HB3	2:C:253:ALA:HB2	1.88	0.54
2:M:848:VAL:CG1	3:N:632:VAL:HG22	2.36	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:594:ALA:HB3	2:M:596:TYR:CE1	2.43	0.54
2:M:1016:ILE:HD13	2:M:1016:ILE:N	2.04	0.54
2:M:1094:ALA:HB2	3:N:520:LEU:CD1	2.38	0.54
3:D:445:ARG:H	3:D:445:ARG:CD	2.20	0.54
4:O:40:LEU:HB2	4:O:45:ARG:CZ	2.38	0.54
3:D:573:MET:SD	5:F:210:LEU:HB3	2.48	0.54
1:B:34:VAL:O	1:B:36:LEU:N	2.40	0.54
3:D:670:VAL:O	3:D:673:ALA:N	2.41	0.54
2:M:172:ILE:HD12	2:M:172:ILE:N	2.10	0.54
3:D:1150:ALA:C	3:D:1151:ARG:HG2	2.28	0.54
1:K:41:ARG:NH2	2:M:860:HIS:ND1	2.55	0.54
3:D:570:GLU:OE2	5:F:214:GLN:HG3	2.07	0.54
2:M:564:MET:CE	2:M:846:LYS:HD2	2.38	0.54
2:M:154:ARG:NH1	2:M:157:ARG:H	2.06	0.54
3:N:493:ARG:HE	3:N:1389:LEU:CD2	2.21	0.54
2:M:193:LEU:O	2:M:193:LEU:HD13	2.08	0.54
3:N:892:ASP:HB3	3:N:895:VAL:HB	1.90	0.54
3:D:452:ILE:HG23	3:D:452:ILE:O	2.08	0.54
2:C:405:ARG:HH12	2:C:563:ASN:ND2	2.06	0.54
2:C:599:GLU:HG2	2:C:600:ASP:H	1.72	0.54
3:D:1441:GLN:CA	3:D:1441:GLN:HE21	2.19	0.54
1:L:32:PHE:O	1:L:33:GLY:C	2.44	0.54
2:M:501:THR:HB	2:M:513:VAL:HG11	1.89	0.54
2:C:586:ARG:HD3	2:C:590:ASP:OD2	2.08	0.54
2:C:837:ASP:OD1	2:C:996:LYS:HE3	2.08	0.54
2:C:1014:SER:OG	2:C:1016:ILE:HG12	2.08	0.54
3:N:388:HIS:HB2	5:P:94:LEU:HD21	1.89	0.54
3:D:996:TRP:CD1	3:D:1056:PRO:HG2	2.43	0.54
3:D:646:LYS:CG	3:D:647:ARG:H	2.20	0.54
3:D:1107:VAL:HG11	3:D:1217:ILE:HA	1.87	0.54
3:D:1066:THR:OG1	3:D:1069:GLU:HB2	2.07	0.54
3:D:1065:LEU:CD1	3:D:1069:GLU:HB3	2.37	0.54
5:P:222:ARG:O	5:P:225:GLU:HB3	2.08	0.54
1:K:13:VAL:CG1	1:K:14:ARG:H	2.21	0.54
2:C:838:LYS:HB2	2:C:997:LEU:HD12	1.88	0.54
3:N:1436:SER:OG	3:N:1464:GLU:HB3	2.08	0.54
3:N:470:LEU:HD22	3:N:499:VAL:HG13	1.89	0.54
3:D:473:LEU:O	3:D:476:GLU:HB3	2.08	0.54
3:D:1484:THR:HG22	3:D:1485:GLN:N	2.23	0.54
3:N:240:GLU:HG3	3:N:243:ALA:HB3	1.90	0.54
2:C:1086:ARG:NH1	3:D:88:TYR:CE1	2.76	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:691:SER:HB3	2:C:868:ASP:HA	1.88	0.54
2:M:573:ARG:HG3	2:M:698:ASP:O	2.07	0.54
3:N:137:PRO:HG2	3:N:453:ASP:CB	2.38	0.54
3:D:766:ALA:HB1	4:E:2:ALA:HB2	1.89	0.54
3:N:1213:ARG:CB	3:N:1214:PRO:HD2	2.28	0.54
2:C:64:LEU:HD22	2:C:359:MET:CE	2.38	0.54
5:P:371:LEU:HD23	5:P:375:LEU:HD13	1.89	0.54
3:D:1358:ALA:C	3:D:1359:GLN:HG2	2.28	0.54
3:D:702:LEU:HA	3:D:746:ALA:O	2.08	0.54
1:B:138:LEU:HD23	1:B:138:LEU:C	2.28	0.54
2:M:959:PRO:O	2:M:963:LEU:HG	2.08	0.54
2:M:44:ILE:HD11	2:M:340:MET:HE3	1.88	0.54
2:C:944:LEU:HD11	2:C:963:LEU:HD21	1.90	0.54
2:C:1052:MET:HE3	3:D:623:VAL:HG11	1.89	0.54
1:K:64:GLU:HB2	1:K:165:ILE:HG21	1.90	0.54
2:C:355:VAL:HG23	2:C:372:LEU:O	2.08	0.54
3:D:1365:ASP:O	3:D:1369:GLU:HG3	2.07	0.54
2:M:1101:THR:OG1	2:M:1109:VAL:O	2.26	0.54
2:C:939:ARG:HD3	2:C:982:PRO:CG	2.38	0.54
3:D:1437:ALA:O	3:D:1446:VAL:HG21	2.08	0.54
2:M:878:SER:HB3	3:N:1029:ARG:HD3	1.90	0.54
3:D:423:ASP:O	3:D:425:GLY:N	2.41	0.54
3:N:130:SER:O	3:N:131:LYS:HB2	2.07	0.54
3:D:133:ILE:CG2	3:D:454:ALA:HB1	2.38	0.54
2:M:129:ILE:CG2	2:M:130:ASN:H	2.10	0.54
3:D:528:VAL:CG2	3:D:536:ALA:HB3	2.29	0.54
3:N:1378:TYR:CE2	3:N:1394:VAL:HG22	2.43	0.54
2:M:578:VAL:HA	2:M:900:ARG:HD3	1.88	0.54
2:M:95:TYR:CZ	2:M:114:PHE:HB3	2.43	0.54
2:M:181:VAL:HG12	2:M:182:VAL:N	2.23	0.54
3:N:1068:LEU:CD2	3:N:1072:ILE:HD13	2.37	0.54
1:K:176:ARG:HD3	2:M:864:GLY:HA3	1.88	0.54
3:D:367:ILE:HG23	3:D:368:VAL:N	2.23	0.54
3:N:890:VAL:O	3:N:892:ASP:N	2.41	0.54
3:N:1135:ARG:CB	3:N:1135:ARG:HH11	2.21	0.54
2:M:757:GLY:HA2	2:M:789:SER:CB	2.38	0.54
5:P:274:THR:O	5:P:278:LEU:HG	2.08	0.54
2:C:615:TYR:HD1	2:C:619:ARG:NH2	2.05	0.54
2:M:480:THR:HG22	2:M:482:GLU:N	2.23	0.54
2:M:97:ARG:HH21	2:M:109:LYS:HZ2	1.56	0.54
3:N:1496:GLU:O	3:N:1500:LYS:HG3	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:176:ARG:HH22	3:D:884:ARG:HD3	1.73	0.54
2:C:626:ARG:HB3	2:C:629:TYR:CD1	2.43	0.54
5:F:113:ILE:HG23	5:F:127:ILE:HG21	1.89	0.54
3:N:920:LEU:H	3:N:920:LEU:HD12	1.72	0.54
1:B:184:THR:O	1:B:190:THR:O	2.26	0.54
2:C:691:SER:CB	2:C:868:ASP:HA	2.39	0.53
3:N:122:GLU:OE1	3:N:122:GLU:HA	2.06	0.53
3:N:131:LYS:CD	3:N:568:ARG:HG2	2.37	0.53
2:C:1030:GLN:HE22	3:D:628:ARG:HE	1.56	0.53
3:D:245:LEU:HD12	3:D:366:LYS:HE2	1.90	0.53
2:M:3:ILE:O	2:M:3:ILE:HG22	2.08	0.53
2:M:474:VAL:HG12	2:M:530:GLU:O	2.08	0.53
2:M:603:VAL:HG21	2:M:643:VAL:HG11	1.89	0.53
3:D:1363:LEU:HD12	3:D:1363:LEU:C	2.28	0.53
2:C:725:ASP:O	2:C:727:PRO:HD3	2.08	0.53
1:A:17:GLY:C	1:A:19:GLU:H	2.11	0.53
2:C:204:GLN:OE1	2:C:222:MET:HA	2.08	0.53
3:D:697:GLY:HA3	4:E:59:ASN:OD1	2.08	0.53
4:E:22:VAL:HG12	4:E:68:LEU:HD22	1.91	0.53
3:N:52:PRO:HG2	3:N:81:THR:O	2.08	0.53
3:N:149:LYS:N	3:N:149:LYS:HD3	2.23	0.53
3:D:1020:LEU:HD12	3:D:1023:MET:HE1	1.90	0.53
3:D:241:ILE:HA	3:D:244:GLU:CB	2.38	0.53
5:P:389:PHE:HD2	5:P:397:ILE:HD11	1.73	0.53
2:C:439:CYS:HB2	2:C:541:SER:CB	2.37	0.53
3:N:908:LYS:HB3	3:N:1027:GLY:CA	2.34	0.53
2:C:205:GLU:HG3	2:C:206:THR:N	2.24	0.53
2:C:145:GLY:H	2:C:163:ILE:HG23	1.72	0.53
2:C:768:THR:O	2:C:772:ARG:N	2.41	0.53
2:M:823:VAL:O	2:M:823:VAL:HG12	2.08	0.53
2:C:876:VAL:HG22	2:C:884:GLN:NE2	2.23	0.53
5:P:321:ILE:HG21	5:P:332:PHE:CZ	2.44	0.53
3:N:916:TYR:O	3:N:920:LEU:HD13	2.09	0.53
1:B:182:GLU:HG3	1:B:194:LYS:HD3	1.91	0.53
3:N:56:TYR:CE1	3:N:66:GLN:HG3	2.42	0.53
5:F:156:VAL:HG23	5:F:157:GLU:N	2.23	0.53
2:C:466:PHE:HB3	2:C:487:THR:HG23	1.91	0.53
3:N:783:ARG:NH1	3:N:1029:ARG:NH2	2.56	0.53
2:C:95:TYR:HD2	2:C:114:PHE:HB3	1.69	0.53
3:D:601:ARG:NH2	3:D:611:GLN:HB2	2.23	0.53
3:N:245:LEU:HB2	3:N:366:LYS:HZ1	1.74	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:175:ARG:HH12	1:B:202:ASP:HB3	1.71	0.53
3:D:1120:VAL:HB	3:D:1144:LEU:HD21	1.91	0.53
3:N:1094:LEU:O	3:N:1098:LEU:HD13	2.07	0.53
3:D:625:TYR:CD1	3:D:625:TYR:N	2.76	0.53
2:M:370:ALA:HB2	5:P:280:GLN:HA	1.90	0.53
3:N:1497:GLU:O	3:N:1501:GLU:HG3	2.07	0.53
3:N:871:LYS:HE3	3:N:873:LEU:HD21	1.89	0.53
3:N:32:ILE:CD1	3:N:527:MET:HG2	2.38	0.53
5:P:94:LEU:HB3	5:P:98:GLU:H	1.73	0.53
1:K:206:THR:H	1:K:209:GLU:HB2	1.74	0.53
2:M:503:LEU:HD12	2:M:505:GLY:O	2.08	0.53
2:M:146:VAL:HG11	2:M:162:ILE:HG12	1.90	0.53
2:M:207:LEU:HD13	2:M:221:LEU:HD11	1.90	0.53
3:D:220:ARG:HB3	3:D:220:ARG:NH2	2.23	0.53
2:M:332:ARG:CZ	2:M:464:LEU:HD21	2.38	0.53
1:A:219:ARG:HG3	1:A:219:ARG:HH11	1.73	0.53
3:D:169:TYR:N	3:D:170:PRO:HD3	2.23	0.53
3:D:898:GLU:HB3	3:D:921:ARG:NH2	2.24	0.53
3:D:1076:GLY:HA2	3:D:1079:LYS:HD3	1.90	0.53
1:B:143:ARG:NH1	1:B:158:ILE:HG23	2.24	0.53
2:C:640:ARG:O	2:C:656:ALA:HB1	2.09	0.53
3:D:657:LEU:HD22	3:D:691:LEU:HD13	1.89	0.53
2:M:762:LYS:HG2	2:M:763:GLY:H	1.73	0.53
3:N:39:PRO:HB3	3:N:46:ASP:HA	1.89	0.53
3:N:191:LEU:HD22	3:N:195:VAL:HG21	1.90	0.53
3:D:1380:GLU:HA	3:D:1392:GLY:HA2	1.89	0.53
3:D:1435:LEU:HD23	3:D:1464:GLU:O	2.09	0.53
2:C:988:VAL:HG12	3:D:948:THR:OG1	2.08	0.53
2:C:627:ARG:CG	2:C:628:PHE:H	2.06	0.53
3:D:573:MET:HG2	5:F:210:LEU:HD13	1.90	0.53
3:N:219:GLU:OE2	3:N:219:GLU:HA	2.08	0.53
3:N:225:LEU:CD2	3:N:440:VAL:HG21	2.39	0.53
3:N:10:ILE:HG22	3:N:1451:ALA:HA	1.90	0.53
2:M:966:LEU:HD11	2:M:986:PRO:CG	2.36	0.53
3:N:1115:THR:HG22	3:N:1115:THR:O	2.08	0.53
2:M:780:GLU:O	2:M:782:ALA:N	2.41	0.53
3:D:582:LEU:HA	3:D:603:LEU:HD12	1.90	0.53
2:M:597:ALA:C	2:M:652:GLY:HA2	2.29	0.53
2:M:760:SER:C	2:M:785:VAL:HG13	2.28	0.53
1:A:198:ARG:HH21	2:C:934:PHE:HE1	1.54	0.53
3:D:1208:ASP:OD1	3:D:1209:LEU:O	2.27	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1155:VAL:CG1	3:D:1177:ALA:HB1	2.38	0.53
3:N:1252:ILE:HG22	3:N:1253:THR:H	1.74	0.53
3:D:957:PRO:HG2	3:D:1007:VAL:HA	1.91	0.53
2:C:737:LEU:O	2:C:738:ASP:C	2.47	0.53
2:M:167:LYS:HD3	2:M:167:LYS:C	2.29	0.53
3:N:1237:THR:HA	3:N:1255:GLY:HA3	1.90	0.53
2:M:598:GLU:O	2:M:599:GLU:HB2	2.08	0.53
3:N:958:GLU:OE2	3:N:961:LYS:HE2	2.08	0.53
3:N:533:GLY:HA3	5:P:309:LYS:HB3	1.91	0.53
3:N:371:ILE:HD12	3:N:372:ASP:N	2.24	0.53
5:P:166:LEU:HB3	5:P:170:HIS:HB2	1.91	0.53
5:P:351:SER:O	5:P:355:GLU:HB2	2.08	0.53
3:N:84:ILE:O	3:N:87:ARG:HG2	2.09	0.53
3:D:212:ARG:HD2	3:D:445:ARG:NH2	2.15	0.53
3:D:178:LEU:C	3:D:180:LYS:H	2.12	0.53
2:C:983:ILE:HG21	2:C:987:ILE:HD11	1.91	0.53
1:A:72:LYS:HZ1	2:C:644:VAL:HA	1.73	0.53
3:D:464:LEU:O	3:D:468:LEU:HG	2.09	0.53
3:D:133:ILE:HD12	3:D:133:ILE:H	1.72	0.53
3:N:176:ASP:HB3	3:N:219:GLU:HG2	1.89	0.53
4:E:47:LYS:CA	4:E:54:LEU:HB3	2.38	0.53
2:C:368:THR:CB	2:C:369:PRO:HD3	2.30	0.53
1:A:94:LEU:C	1:A:96:THR:N	2.62	0.53
2:M:1052:MET:CE	3:N:748:HIS:HB3	2.39	0.53
2:C:612:VAL:HA	2:C:621:VAL:O	2.08	0.53
3:D:52:PRO:HG3	3:D:78:VAL:CG1	2.38	0.53
3:N:59:ALA:CB	3:N:78:VAL:HG21	2.39	0.53
3:D:1153:VAL:HG12	3:D:1155:VAL:HG23	1.90	0.53
3:N:925:GLU:OE1	4:O:7:ASP:OD2	2.27	0.53
3:D:916:TYR:CD2	3:D:916:TYR:O	2.62	0.53
3:D:459:GLU:O	3:D:463:GLN:HG2	2.09	0.53
2:M:42:VAL:HG12	2:M:43:GLY:H	1.72	0.53
3:D:110:SER:O	3:D:113:GLY:N	2.34	0.53
5:F:164:LYS:HB2	5:F:171:LYS:HZ1	1.74	0.53
2:C:461:VAL:HG13	2:C:465:GLY:CA	2.38	0.53
2:C:549:PHE:O	2:C:551:GLU:N	2.42	0.53
5:P:105:LYS:HZ3	5:P:105:LYS:HB3	1.73	0.53
2:C:364:GLU:O	2:C:367:LEU:HD22	2.08	0.53
3:N:701:LEU:O	3:N:702:LEU:HD12	2.09	0.53
2:C:919:ALA:CB	2:C:968:LEU:HD21	2.34	0.53
1:L:71:VAL:HG22	1:L:132:LEU:HG	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:25:LEU:HD22	1:L:225:PHE:CE2	2.43	0.53
2:M:547:ILE:O	2:M:547:ILE:HG22	2.08	0.53
3:D:41:ARG:HG3	3:D:42:ASP:H	1.73	0.53
2:M:52:PHE:CD2	2:M:68:PHE:HB2	2.44	0.53
1:K:111:ALA:HB3	1:K:127:LEU:HB3	1.90	0.53
1:B:83:LYS:NZ	1:B:168:ASP:OD2	2.26	0.53
3:N:916:TYR:CZ	3:N:920:LEU:HD11	2.44	0.53
1:A:157:GLY:HA2	1:A:166:PRO:HG2	1.89	0.53
3:N:1481:VAL:HG11	4:O:18:ARG:HA	1.91	0.53
3:N:528:VAL:CG1	3:N:529:GLN:N	2.72	0.53
2:C:468:ARG:HD3	2:C:485:TYR:O	2.09	0.53
4:O:40:LEU:HB2	4:O:45:ARG:NH1	2.24	0.53
3:N:1170:ASP:C	3:N:1172:HIS:N	2.63	0.53
3:D:389:GLU:N	3:D:389:GLU:OE1	2.42	0.53
3:D:930:LEU:O	3:D:934:LEU:HG	2.09	0.53
3:D:1273:VAL:HG21	3:D:1305:LEU:HD21	1.90	0.53
1:A:92:PRO:O	1:A:94:LEU:N	2.41	0.53
3:N:18:ILE:HG21	3:N:516:ALA:O	2.09	0.53
3:N:798:GLU:OE1	3:N:826:PRO:HB3	2.08	0.53
3:N:210:ARG:CD	3:N:398:ALA:HB3	2.34	0.53
1:A:132:LEU:HD21	1:A:138:LEU:HB3	1.90	0.53
3:D:629:SER:O	3:D:744:GLN:CB	2.56	0.53
3:D:892:ASP:HB3	3:D:895:VAL:CG2	2.39	0.53
1:A:161:ARG:CG	1:A:161:ARG:HH11	2.21	0.53
2:C:226:VAL:HG13	2:C:227:PHE:N	2.24	0.53
3:N:14:SER:O	3:N:17:LYS:N	2.41	0.53
2:M:385:PHE:CD1	2:M:389:SER:HB2	2.44	0.53
3:D:1304:LYS:CD	3:D:1304:LYS:H	1.93	0.53
5:F:154:LYS:HG3	5:F:158:GLU:OE2	2.09	0.53
3:N:400:VAL:C	3:N:402:PRO:HD3	2.29	0.53
3:N:212:ARG:HB2	3:N:445:ARG:NH2	2.24	0.53
3:N:785:ILE:HG22	3:N:789:LEU:HD12	1.91	0.53
3:N:573:MET:HE2	5:P:214:GLN:HG3	1.90	0.53
3:N:386:HIS:O	5:P:96:LEU:HD12	2.08	0.53
2:M:1033:GLY:O	2:M:1037:VAL:HG23	2.09	0.53
2:C:22:GLN:NE2	2:C:336:VAL:CG2	2.71	0.53
1:A:93:SER:C	1:A:94:LEU:HD12	2.29	0.53
3:N:669:ASN:H	3:N:672:ALA:HB2	1.74	0.53
5:P:386:VAL:HA	5:P:394:ARG:HG3	1.91	0.53
3:D:1357:ARG:C	3:D:1359:GLN:H	2.13	0.53
2:C:923:GLU:O	2:C:927:GLY:N	2.38	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:44:ILE:HD11	2:M:340:MET:CE	2.38	0.53
5:P:316:SER:HG	5:P:318:GLU:HG3	1.70	0.53
6:M:1120:STD:C31	3:N:1086:LEU:HB2	2.39	0.53
3:N:40:GLU:HG3	3:N:41:ARG:HG2	1.90	0.53
3:D:40:GLU:CG	3:D:41:ARG:H	2.22	0.53
3:D:1497:GLU:O	3:D:1501:GLU:HG3	2.09	0.53
2:C:358:ARG:HH22	2:C:374:ASN:CG	2.12	0.53
2:C:12:VAL:HG13	2:C:13:ILE:N	2.24	0.53
1:K:127:LEU:HD12	1:K:128:HIS:H	1.73	0.53
2:M:534:VAL:H	2:M:538:GLN:HE22	1.57	0.53
2:M:383:ARG:HH11	2:M:383:ARG:HB2	1.73	0.53
1:A:94:LEU:HD21	1:A:119:ASP:HB2	1.91	0.53
5:P:365:GLU:HA	5:P:368:VAL:CG2	2.39	0.53
2:C:895:TYR:CD2	2:C:896:PHE:CD1	2.97	0.53
2:C:1102:LEU:HD22	3:D:9:ARG:HD3	1.90	0.53
2:M:547:ILE:O	2:M:548:PRO:C	2.47	0.53
1:K:42:ARG:HH12	2:M:857:ASP:CB	2.21	0.53
4:O:22:VAL:HG12	4:O:23:VAL:N	2.24	0.53
5:F:371:LEU:HD22	5:F:375:LEU:HD22	1.91	0.53
2:C:204:GLN:HE21	2:C:228:ALA:HB2	1.73	0.53
2:M:904:PRO:HD2	2:M:908:GLY:HA2	1.91	0.53
2:M:714:ASP:HB2	2:M:818:GLY:O	2.08	0.53
3:N:998:GLU:O	3:N:1002:LYS:HG3	2.08	0.53
2:C:426:ASP:HA	2:C:429:ASP:OD2	2.08	0.53
3:D:502:PHE:CE2	3:D:509:PRO:HB3	2.44	0.53
3:N:1395:LEU:C	3:N:1395:LEU:HD13	2.29	0.53
2:C:679:PHE:CD1	2:C:870:ILE:HD13	2.44	0.52
3:D:433:GLY:H	3:D:449:SER:N	2.07	0.52
3:N:806:PHE:HA	3:N:809:PRO:HD2	1.91	0.52
1:A:9:PRO:HB3	1:A:25:LEU:CD2	2.39	0.52
2:M:183:SER:CB	2:M:190:LYS:HG2	2.23	0.52
3:D:654:LYS:CB	3:D:655:PRO:HD3	2.30	0.52
1:A:20:TYR:CD2	1:A:21:GLY:N	2.72	0.52
2:M:549:PHE:HE2	2:M:887:GLU:HA	1.74	0.52
1:K:41:ARG:HG3	1:K:41:ARG:HH11	1.74	0.52
1:L:38:ASN:CB	1:L:39:PRO:HD3	2.40	0.52
2:M:1005:MET:SD	3:N:648:MET:HG3	2.49	0.52
3:N:702:LEU:HB3	3:N:745:MET:HE2	1.91	0.52
5:F:416:ARG:NH2	5:F:419:ARG:CG	2.72	0.52
3:N:804:LEU:O	3:N:831:GLY:HA2	2.09	0.52
3:D:1064:GLY:O	3:D:1065:LEU:C	2.47	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1311:LEU:N	3:N:1311:LEU:HD23	2.23	0.52
1:L:206:THR:CG2	1:L:209:GLU:H	2.21	0.52
2:C:799:ILE:HD13	2:C:799:ILE:O	2.09	0.52
2:C:947:ALA:O	2:C:953:VAL:HG22	2.09	0.52
2:C:424:GLY:O	2:C:427:VAL:N	2.40	0.52
3:D:1412:LYS:O	3:D:1414:PRO:HD3	2.09	0.52
3:N:1458:GLU:O	3:N:1460:ILE:HG13	2.08	0.52
2:C:682:TYR:HB3	2:C:689:VAL:CG1	2.39	0.52
2:C:910:LYS:HB3	2:C:912:PRO:HD2	1.90	0.52
2:C:341:THR:O	2:C:344:PHE:HB3	2.10	0.52
3:D:615:ARG:O	3:D:619:LEU:CB	2.58	0.52
3:N:212:ARG:HB3	3:N:394:LEU:CD1	2.38	0.52
3:N:148:GLU:CB	3:N:151:GLN:HB2	2.23	0.52
3:N:558:LEU:HD13	5:P:145:PRO:CB	2.39	0.52
3:N:1215:VAL:HG22	3:N:1216:SER:N	2.24	0.52
1:A:205:VAL:HG23	1:A:206:THR:N	2.24	0.52
2:M:367:LEU:HD12	2:M:367:LEU:O	2.08	0.52
3:N:1377:LYS:HE2	3:N:1394:VAL:HG22	1.91	0.52
3:D:796:ARG:O	3:D:797:LYS:HG3	2.09	0.52
2:M:863:ASP:OD2	2:M:865:THR:HG22	2.10	0.52
3:D:1232:PRO:O	3:D:1233:GLY:C	2.47	0.52
3:N:245:LEU:HD22	3:N:246:PRO:CD	2.33	0.52
3:N:1267:ARG:CZ	3:N:1271:LYS:HG3	2.40	0.52
3:D:9:ARG:HH12	3:D:11:ALA:HB2	1.72	0.52
3:D:630:VAL:O	3:D:726:ILE:HG13	2.09	0.52
1:A:100:LEU:HD13	1:A:115:LEU:HD11	1.90	0.52
2:C:723:THR:OG1	2:C:724:ARG:N	2.42	0.52
2:M:1074:GLU:HA	4:O:31:LEU:HD21	1.91	0.52
3:D:1265:ALA:O	3:D:1266:ARG:HG3	2.09	0.52
2:C:460:ARG:CD	2:C:485:TYR:CE2	2.86	0.52
3:D:128:TYR:HB3	3:D:129:PHE:CD1	2.45	0.52
3:D:765:SER:C	3:D:767:HIS:H	2.12	0.52
3:N:175:VAL:HG12	3:N:176:ASP:OD1	2.09	0.52
2:M:172:ILE:HA	2:M:185:LYS:O	2.10	0.52
3:N:736:PHE:O	3:N:738:ALA:N	2.42	0.52
3:D:1115:THR:HB	3:D:1151:ARG:NH2	2.23	0.52
2:M:998:TYR:HE2	2:M:1000:MET:SD	2.33	0.52
1:A:27:PRO:CG	1:A:186:LEU:HD22	2.35	0.52
3:D:646:LYS:HG3	3:D:647:ARG:N	2.23	0.52
3:D:728:LEU:HD11	3:D:732:VAL:CG2	2.40	0.52
2:M:238:LEU:O	2:M:238:LEU:HD23	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:604:THR:C	3:N:606:ILE:H	2.12	0.52
2:M:675:ALA:HB2	2:M:867:VAL:HG11	1.91	0.52
2:M:689:VAL:O	2:M:869:VAL:HG23	2.09	0.52
1:L:57:TYR:HE1	1:L:163:ASN:HB2	1.74	0.52
2:C:872:ASN:OD1	2:C:873:PRO:N	2.42	0.52
1:L:44:LEU:CD1	1:L:199:ILE:HD11	2.38	0.52
2:M:61:LYS:HD3	2:M:61:LYS:O	2.08	0.52
1:B:20:TYR:OH	1:B:198:ARG:HD2	2.09	0.52
4:O:54:LEU:HD21	4:O:58:PRO:HB2	1.91	0.52
5:F:94:LEU:HD13	5:F:94:LEU:C	2.30	0.52
5:P:196:VAL:HG13	5:P:213:ILE:HD11	1.90	0.52
3:D:127:LEU:HD22	3:D:134:VAL:CG2	2.36	0.52
3:D:949:ILE:HD11	3:D:1023:MET:HE1	1.91	0.52
3:D:761:ILE:O	3:D:767:HIS:HD2	1.92	0.52
3:D:659:LYS:C	3:D:659:LYS:HD3	2.30	0.52
5:P:135:ILE:HD11	5:P:178:ARG:CG	2.40	0.52
3:D:1101:VAL:O	3:D:1101:VAL:HG12	2.10	0.52
2:C:654:LEU:HD11	2:C:663:ASN:O	2.09	0.52
3:D:770:LEU:HG	3:D:919:PHE:CE1	2.45	0.52
3:D:1149:LEU:HD21	3:D:1166:LEU:HD21	1.92	0.52
1:L:14:ARG:NH2	1:L:24:VAL:HG21	2.24	0.52
2:M:1089:VAL:O	2:M:1093:GLN:HG3	2.10	0.52
1:K:1:MET:HG3	1:K:6:LEU:HB2	1.91	0.52
1:L:158:ILE:HG22	1:L:159:LYS:N	2.24	0.52
2:C:1031:ARG:HA	3:D:621:LYS:O	2.10	0.52
1:K:150:TYR:HE1	2:M:696:LYS:HA	1.74	0.52
2:M:833:LEU:HD13	2:M:996:LYS:CD	2.40	0.52
2:M:196:LEU:HA	2:M:199:VAL:CG2	2.39	0.52
1:A:44:LEU:HB2	1:A:177:VAL:HG21	1.92	0.52
1:B:7:LYS:HE3	1:B:186:LEU:CD2	2.40	0.52
2:C:15:LEU:CD2	2:C:583:LEU:HD21	2.39	0.52
3:D:1486:VAL:HG12	4:E:73:LEU:HD22	1.90	0.52
3:D:1229:ILE:O	3:D:1229:ILE:HG22	2.09	0.52
2:C:495:THR:HG23	2:C:517:ARG:HE	1.73	0.52
3:N:22:SER:HA	3:N:90:MET:O	2.09	0.52
3:D:233:LYS:HZ1	3:D:237:LYS:HD2	1.74	0.52
3:N:544:TYR:O	3:N:548:ILE:HG13	2.10	0.52
3:N:643:GLY:HA3	3:N:727:GLN:HB2	1.92	0.52
3:D:688:TRP:HE3	3:D:688:TRP:HA	1.75	0.52
3:N:1031:ASN:O	3:N:1034:GLN:HB2	2.10	0.52
5:F:326:ASP:OD1	5:F:326:ASP:N	2.43	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:96:ALA:CB	3:N:554:LEU:HG	2.40	0.52
3:D:124:GLU:O	3:D:126:VAL:N	2.42	0.52
5:P:232:ARG:O	5:P:233:PHE:C	2.48	0.52
5:P:134:LYS:HB2	5:P:178:ARG:HH11	1.73	0.52
3:N:426:LYS:HZ2	5:P:138:SER:HA	1.75	0.52
1:B:151:VAL:O	1:B:169:ALA:N	2.32	0.52
3:D:223:LEU:N	3:D:223:LEU:HD22	2.25	0.52
3:N:1124:GLN:NE2	3:N:1133:ARG:HD2	2.22	0.52
2:C:207:LEU:O	2:C:211:LEU:HB3	2.10	0.52
2:C:1052:MET:HG3	3:D:623:VAL:CG2	2.39	0.52
2:C:404:LEU:O	2:C:408:ARG:HG2	2.10	0.52
3:D:688:TRP:CE3	3:D:688:TRP:HA	2.43	0.52
2:M:43:GLY:HA2	2:M:341:THR:HG21	1.91	0.52
2:M:427:VAL:O	2:M:427:VAL:HG12	2.09	0.52
3:N:1264:GLU:O	3:N:1266:ARG:N	2.42	0.52
3:D:50:PHE:CB	3:D:522:PRO:HG2	2.39	0.52
3:D:375:GLU:O	3:D:376:GLU:HB3	2.08	0.52
3:D:389:GLU:O	3:D:389:GLU:HG2	2.09	0.52
2:M:874:LEU:HD11	3:N:784:ASP:OD2	2.10	0.52
3:N:216:VAL:HG21	3:N:224:ARG:HG2	1.91	0.52
3:N:221:ALA:O	3:N:367:ILE:HD12	2.09	0.52
3:D:969:ARG:O	3:D:973:GLN:HG3	2.08	0.52
3:N:780:LYS:HD3	3:N:912:LYS:HG3	1.91	0.52
1:K:214:ALA:O	1:K:216:GLU:N	2.43	0.52
2:M:194:VAL:HG13	2:M:221:LEU:HG	1.90	0.52
2:C:921:ALA:O	2:C:923:GLU:N	2.43	0.52
3:N:975:GLU:CD	3:N:988:ARG:HH12	2.12	0.52
1:L:101:LEU:HD21	1:L:109:VAL:HG11	1.92	0.52
2:C:352:ALA:HA	2:C:355:VAL:HG12	1.91	0.52
3:N:1345:GLU:HG3	3:N:1376:MET:SD	2.50	0.52
3:N:23:TYR:O	3:N:49:ILE:HG23	2.09	0.52
5:P:321:ILE:HD11	5:P:329:TYR:HA	1.91	0.52
2:C:88:LEU:N	2:C:88:LEU:HD23	2.25	0.52
2:M:6:PHE:CD1	2:M:6:PHE:N	2.78	0.52
1:L:88:ARG:HH11	1:L:88:ARG:HG2	1.74	0.52
2:M:751:PRO:HG2	3:N:680:GLN:HE21	1.74	0.52
2:M:604:ALA:HB3	2:M:612:VAL:O	2.09	0.52
1:L:27:PRO:HG2	1:L:186:LEU:HD12	1.92	0.52
3:D:210:ARG:HD2	3:D:398:ALA:HB3	1.91	0.52
2:C:142:ARG:HH11	2:C:325:ILE:HG23	1.73	0.52
1:K:117:VAL:O	1:K:118:ALA:O	2.28	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:58:ILE:HG22	1:A:59:GLU:N	2.24	0.52
2:C:29:ALA:C	2:C:44:ILE:HD13	2.29	0.52
3:D:87:ARG:O	3:D:521:PRO:CB	2.57	0.52
3:D:493:ARG:HE	3:D:1389:LEU:CG	2.22	0.52
3:N:131:LYS:CE	3:N:456:MET:HE2	2.40	0.52
3:N:133:ILE:HG12	3:N:456:MET:SD	2.50	0.52
2:C:516:ARG:HH11	2:C:521:PRO:CB	2.23	0.52
2:M:470:PRO:HD2	2:M:538:GLN:OE1	2.09	0.52
5:F:384:GLU:O	5:F:386:VAL:N	2.43	0.52
3:D:241:ILE:HA	3:D:244:GLU:HB2	1.92	0.52
3:D:860:LEU:O	3:D:877:PRO:HD2	2.10	0.52
3:D:1236:LEU:HA	3:D:1359:GLN:NE2	2.25	0.52
1:A:148:VAL:N	1:A:171:PHE:CD2	2.78	0.52
3:N:562:ALA:CB	3:N:567:ILE:HG12	2.40	0.52
3:N:159:ARG:HH21	5:P:87:GLU:HG2	1.73	0.52
2:M:722:ILE:HD11	2:M:823:VAL:HG21	1.92	0.52
3:D:896:ALA:O	3:D:899:LEU:HD13	2.10	0.52
2:C:737:LEU:HD21	2:C:741:GLY:O	2.09	0.52
1:B:74:ASP:O	1:B:78:ILE:HG13	2.09	0.52
2:C:420:ARG:N	2:C:420:ARG:HD3	2.25	0.52
2:C:226:VAL:HG13	2:C:227:PHE:CD1	2.45	0.52
1:K:194:LYS:HD2	1:K:194:LYS:O	2.10	0.52
1:A:73:GLU:OE1	1:A:130:ALA:HA	2.09	0.52
3:N:112:ILE:HG22	3:N:512:MET:SD	2.50	0.52
1:A:117:VAL:HG12	1:A:118:ALA:N	2.25	0.52
2:C:906:PHE:CE1	3:D:1067:VAL:HG13	2.45	0.52
3:N:128:TYR:HE1	3:N:461:ILE:CG1	2.23	0.52
2:C:266:ARG:HG2	2:C:273:GLY:HA3	1.92	0.52
4:E:26:ARG:NH2	4:E:67:GLU:OE1	2.41	0.52
3:N:215:TYR:CE1	5:P:97:GLU:HB3	2.44	0.52
3:D:972:LEU:HD23	3:D:973:GLN:H	1.75	0.52
3:D:992:ILE:O	3:D:993:LEU:C	2.47	0.52
2:M:259:GLY:O	2:M:291:ALA:HB2	2.09	0.52
1:K:205:VAL:CG2	1:K:206:THR:N	2.73	0.52
2:M:564:MET:HA	2:M:564:MET:CE	2.40	0.52
3:N:702:LEU:HB3	3:N:745:MET:HE1	1.92	0.52
3:D:510:GLU:O	3:D:513:ILE:HD12	2.10	0.52
2:C:923:GLU:O	2:C:924:VAL:C	2.48	0.52
2:M:845:ASN:HD22	2:M:884:GLN:NE2	2.04	0.52
3:D:55:ASP:HA	3:D:82:LYS:HA	1.91	0.52
3:D:1063:GLU:HG2	3:D:1064:GLY:N	2.25	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:583:ASP:OD1	3:D:604:THR:HG22	2.09	0.52
1:L:83:LYS:NZ	3:N:842:VAL:O	2.43	0.52
5:P:300:ASP:OD2	5:P:302:LYS:HG3	2.10	0.52
2:C:250:ARG:NE	2:C:253:ALA:HB1	2.24	0.52
2:M:103:LYS:HA	2:M:103:LYS:HE2	1.91	0.52
2:M:841:ASN:ND2	2:M:843:HIS:CD2	2.78	0.52
2:C:890:LEU:HD12	2:C:890:LEU:O	2.10	0.52
3:D:384:VAL:O	5:F:232:ARG:NH1	2.42	0.52
1:A:104:GLU:HG2	1:A:137:ARG:HD2	1.91	0.52
2:C:682:TYR:HB3	2:C:689:VAL:HG13	1.92	0.52
2:C:140:ILE:HG23	2:C:333:ILE:HD12	1.92	0.52
3:N:794:GLN:NE2	3:N:795:VAL:N	2.51	0.52
3:D:1130:ARG:O	3:D:1131:SER:HB3	2.10	0.52
2:M:1047:HIS:CG	3:N:754:PHE:CD2	2.98	0.52
2:C:64:LEU:HD11	2:C:100:LEU:HD13	1.91	0.52
3:N:1115:THR:HG22	3:N:1151:ARG:NH2	2.24	0.52
3:D:614:PHE:CE1	3:D:618:LEU:HD12	2.45	0.52
2:C:397:GLU:H	2:C:633:GLN:NE2	2.07	0.52
3:D:1451:ALA:O	3:D:1452:ILE:C	2.47	0.52
1:L:61:VAL:CG2	1:L:68:ILE:HD11	2.39	0.52
3:D:1137:ARG:H	3:D:1137:ARG:HD2	1.74	0.52
1:L:223:THR:O	1:L:225:PHE:N	2.43	0.52
3:D:1372:VAL:O	3:D:1375:MET:HB2	2.10	0.52
3:N:1046:GLN:HA	3:N:1052:THR:HA	1.91	0.52
2:C:495:THR:HG23	2:C:517:ARG:NE	2.25	0.52
2:M:807:ARG:HB2	2:M:807:ARG:NH1	2.25	0.52
3:D:1074:SER:O	3:D:1077:ALA:HB3	2.10	0.52
3:D:1213:ARG:HE	3:D:1213:ARG:H	1.58	0.52
3:N:101:HIS:CD2	3:N:582:LEU:HD13	2.45	0.52
3:D:387:LEU:HD11	5:F:94:LEU:HD11	1.90	0.51
1:K:54:THR:HG22	1:K:143:ARG:HD3	1.91	0.51
3:D:996:TRP:CD2	3:D:1056:PRO:HG2	2.45	0.51
2:C:443:THR:HG21	2:C:450:GLY:N	2.12	0.51
1:K:179:PHE:O	1:K:180:GLN:HG3	2.10	0.51
3:D:632:VAL:O	3:D:727:GLN:HA	2.09	0.51
3:N:584:ASN:HB2	3:N:602:SER:HB3	1.92	0.51
3:D:831:GLY:HA3	3:D:834:THR:O	2.09	0.51
5:P:107:GLU:O	5:P:110:MET:HB3	2.10	0.51
2:C:194:VAL:HA	2:C:197:LEU:HB2	1.92	0.51
2:C:211:LEU:HD11	2:C:308:ARG:HB2	1.92	0.51
5:P:295:MET:HA	5:P:295:MET:HE2	1.90	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:22:SER:OG	3:D:24:GLY:O	2.28	0.51
2:C:829:GLN:NE2	2:C:831:ARG:HD3	2.24	0.51
2:C:878:SER:CB	3:D:1029:ARG:NH1	2.73	0.51
2:M:518:LYS:O	2:M:518:LYS:HG3	2.09	0.51
3:N:67:ARG:O	3:N:69:GLU:N	2.43	0.51
3:D:161:LEU:O	3:D:449:SER:HB2	2.10	0.51
2:C:436:GLY:O	2:C:469:THR:HB	2.10	0.51
3:D:186:VAL:HG11	3:D:213:VAL:CG1	2.39	0.51
3:N:1170:ASP:C	3:N:1172:HIS:H	2.13	0.51
3:N:209:ARG:NH2	3:N:397:LYS:HG3	2.25	0.51
2:M:575:GLN:O	2:M:667:ALA:HB1	2.10	0.51
3:N:133:ILE:O	3:N:152:LEU:HB2	2.11	0.51
3:D:543:LEU:CD2	3:D:580:ALA:HB1	2.29	0.51
2:C:516:ARG:CZ	3:D:1068:LEU:CD2	2.77	0.51
5:P:134:LYS:O	5:P:135:ILE:CG1	2.57	0.51
5:F:393:THR:CG2	5:F:394:ARG:H	2.12	0.51
5:F:140:ARG:HG3	5:F:140:ARG:HH11	1.74	0.51
1:L:38:ASN:HB3	1:L:39:PRO:HD3	1.91	0.51
5:P:367:MET:HA	5:P:370:LYS:CG	2.40	0.51
2:M:157:ARG:HH11	2:M:314:THR:HB	1.75	0.51
3:N:1045:MET:HE3	3:N:1045:MET:HA	1.92	0.51
2:C:428:ARG:HH12	6:D:1525:STD:H141	1.74	0.51
3:D:705:ALA:HB1	3:D:706:PRO:HD3	1.87	0.51
2:C:1097:LEU:HG	3:D:101:HIS:CE1	2.45	0.51
3:D:809:PRO:HB2	3:D:812:ALA:HB3	1.92	0.51
2:M:769:PRO:HB2	3:N:65:ARG:NH1	2.25	0.51
1:L:44:LEU:HD11	1:L:199:ILE:HD11	1.92	0.51
3:D:1438:ALA:O	3:D:1443:THR:HG22	2.10	0.51
3:D:850:LEU:HD12	3:D:850:LEU:H	1.74	0.51
2:M:422:ARG:O	2:M:422:ARG:HG2	2.09	0.51
1:A:83:LYS:HZ3	2:C:698:ASP:CG	2.13	0.51
2:M:874:LEU:CD1	3:N:784:ASP:OD2	2.58	0.51
3:D:129:PHE:CD1	3:D:129:PHE:N	2.79	0.51
3:D:569:ASN:C	3:D:569:ASN:HD22	2.13	0.51
5:F:79:ASP:CB	5:F:80:PRO:HD3	2.32	0.51
3:N:227:LEU:N	3:N:227:LEU:HD13	2.26	0.51
3:N:826:PRO:HD2	3:N:829:VAL:HG13	1.92	0.51
5:P:278:LEU:HB3	5:P:286:PRO:HG2	1.91	0.51
4:O:23:VAL:HG11	4:O:65:MET:HG3	1.92	0.51
3:D:1259:VAL:HG21	3:D:1356:TYR:HE1	1.74	0.51
5:P:346:THR:HG22	5:P:347:GLN:N	2.24	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:745:ILE:CD1	2:M:745:ILE:H	2.24	0.51
4:O:59:ASN:HB3	4:O:62:THR:OG1	2.10	0.51
2:C:948:GLU:O	2:C:951:GLY:N	2.44	0.51
2:C:1081:VAL:HG12	2:C:1082:PRO:CD	2.40	0.51
3:N:134:VAL:HA	3:N:152:LEU:HA	1.92	0.51
3:D:1197:ARG:HD3	3:D:1396:GLU:CB	2.39	0.51
1:B:123:MET:C	1:B:125:PRO:HD3	2.31	0.51
3:N:466:LYS:HG2	3:N:510:GLU:CG	2.38	0.51
4:E:45:ARG:HB3	4:E:46:PRO:CD	2.40	0.51
2:M:1097:LEU:CD2	3:N:10:ILE:HD13	2.30	0.51
2:C:97:ARG:HH21	2:C:109:LYS:HD2	1.75	0.51
3:D:1092:GLY:O	3:D:1093:TYR:C	2.49	0.51
2:M:207:LEU:HD22	2:M:221:LEU:CD2	2.41	0.51
3:D:614:PHE:HE1	3:D:618:LEU:HD12	1.76	0.51
5:P:354:LEU:HD23	5:P:418:LEU:CD2	2.39	0.51
1:K:109:VAL:CG2	1:K:132:LEU:HD13	2.37	0.51
3:N:444:VAL:O	3:N:444:VAL:HG13	2.10	0.51
2:C:873:PRO:C	2:C:875:GLY:H	2.13	0.51
5:F:182:ALA:O	5:F:185:GLN:HB2	2.11	0.51
5:F:185:GLN:O	5:F:189:GLU:HG3	2.10	0.51
2:M:807:ARG:HA	2:M:821:GLU:HB2	1.92	0.51
2:M:848:VAL:HG11	3:N:632:VAL:HG22	1.90	0.51
2:M:120:LEU:O	2:M:127:PHE:CD2	2.63	0.51
1:A:58:ILE:HG22	1:A:59:GLU:H	1.76	0.51
2:M:690:ILE:O	2:M:852:ILE:HA	2.11	0.51
2:C:826:TYR:CD1	2:C:826:TYR:N	2.78	0.51
5:P:82:ARG:O	5:P:86:HIS:HB2	2.09	0.51
3:N:556:LYS:NZ	5:P:218:GLN:HE22	2.08	0.51
3:D:441:ARG:O	3:D:443:VAL:N	2.39	0.51
3:D:445:ARG:H	3:D:445:ARG:HD2	1.75	0.51
4:O:54:LEU:HG	4:O:58:PRO:CB	2.40	0.51
3:N:162:ARG:HB2	3:N:434:ARG:NH2	2.26	0.51
3:N:127:LEU:HD12	3:N:128:TYR:N	2.26	0.51
3:N:625:TYR:HB3	3:N:749:VAL:HG21	1.91	0.51
2:M:1045:ALA:HA	3:N:758:GLU:HB3	1.92	0.51
3:D:8:VAL:HG12	3:D:9:ARG:H	1.75	0.51
3:D:52:PRO:HG2	3:D:80:VAL:HG23	1.91	0.51
2:C:1056:LYS:HB3	3:D:623:VAL:HG13	1.93	0.51
3:N:877:PRO:O	3:N:878:GLY:C	2.49	0.51
2:C:873:PRO:C	2:C:875:GLY:N	2.64	0.51
2:C:641:PRO:HA	2:C:656:ALA:HB2	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:726:ILE:HD11	2:M:754:ILE:HG21	1.91	0.51
3:D:1222:GLY:O	3:D:1225:ALA:HB3	2.10	0.51
3:D:154:THR:HG22	3:D:155:ASP:N	2.25	0.51
3:D:1304:LYS:O	3:D:1304:LYS:HG2	2.10	0.51
2:C:48:PHE:O	2:C:51:THR:N	2.43	0.51
3:D:25:GLU:HB2	3:D:92:HIS:NE2	2.26	0.51
3:N:149:LYS:HG2	3:N:150:ARG:H	1.76	0.51
3:N:456:MET:O	3:N:456:MET:HG2	2.11	0.51
3:D:564:GLU:HA	3:D:567:ILE:HD12	1.91	0.51
3:D:984:THR:HG22	3:D:987:GLU:CB	2.39	0.51
3:D:984:THR:HG22	3:D:987:GLU:CD	2.30	0.51
4:E:46:PRO:CB	4:E:54:LEU:HD22	2.37	0.51
2:C:1013:TYR:HE1	2:C:1020:PRO:HG3	1.76	0.51
2:C:480:THR:HG22	2:C:481:ASP:N	2.24	0.51
2:M:157:ARG:NH1	2:M:314:THR:O	2.43	0.51
3:D:223:LEU:CA	3:D:365:ASP:HB2	2.40	0.51
1:B:201:THR:HG21	1:B:205:VAL:O	2.09	0.51
3:D:834:THR:HG22	3:D:838:ARG:HB2	1.91	0.51
2:M:1099:VAL:O	2:M:1099:VAL:HG23	2.11	0.51
3:D:500:ARG:HH22	3:D:1388:ARG:CZ	2.23	0.51
3:N:633:VAL:N	3:N:740:PHE:CE2	2.79	0.51
2:C:381:ALA:O	2:C:384:GLU:N	2.44	0.51
3:N:1295:GLU:CD	3:N:1300:SER:OG	2.49	0.51
5:F:272:SER:O	5:F:275:ALA:HB3	2.11	0.51
5:F:411:HIS:CE1	5:F:412:GLU:HG2	2.45	0.51
1:K:156:HIS:CD2	1:K:158:ILE:HG12	2.45	0.51
2:C:693:GLU:O	2:C:697:ARG:HG2	2.10	0.51
2:M:418:LEU:N	2:M:418:LEU:HD22	2.26	0.51
3:D:396:VAL:CG2	3:D:447:VAL:HG12	2.37	0.51
3:D:541:ASN:O	3:D:545:ARG:HG3	2.10	0.51
3:D:562:ALA:HB1	3:D:567:ILE:CD1	2.40	0.51
3:D:662:GLU:OE1	3:D:662:GLU:C	2.49	0.51
3:D:662:GLU:OE1	3:D:663:GLU:N	2.44	0.51
3:D:992:ILE:O	3:D:995:LEU:N	2.44	0.51
4:E:48:MET:HG2	4:E:49:GLN:H	1.75	0.51
2:M:987:ILE:N	2:M:987:ILE:HD13	2.25	0.51
3:N:1043:GLY:C	3:N:1057:VAL:H	2.14	0.51
1:K:201:THR:HG22	1:K:202:ASP:N	2.25	0.51
3:N:481:MET:HE1	3:N:1388:ARG:HE	1.74	0.51
2:M:583:LEU:O	2:M:584:GLU:C	2.49	0.51
3:N:249:TYR:O	3:N:250:LEU:HD12	2.09	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:624:ASP:HB3	3:D:625:TYR:CE1	2.46	0.51
2:C:148:PHE:HB3	2:C:313:LEU:HD22	1.92	0.51
1:B:106:PRO:HG3	1:B:134:GLU:OE1	2.11	0.51
3:N:850:LEU:N	3:N:850:LEU:HD12	2.26	0.51
3:N:1031:ASN:HD22	3:N:1032:PRO:HD2	1.75	0.51
2:M:591:SER:O	2:M:593:ALA:N	2.37	0.51
2:C:787:ASP:OD2	2:C:791:ARG:NH2	2.42	0.51
1:A:108:GLU:O	1:A:110:LYS:HG3	2.10	0.51
3:N:44:LEU:CB	3:N:525:ARG:NH2	2.55	0.51
5:F:161:GLN:O	5:F:164:LYS:HG2	2.11	0.51
2:C:551:GLU:HB3	2:C:906:PHE:CE2	2.45	0.51
2:M:139:GLN:HB3	2:M:334:ARG:HG3	1.92	0.51
3:N:150:ARG:HH12	3:N:464:LEU:HD22	1.75	0.51
3:D:567:ILE:HG22	3:D:571:LYS:NZ	2.25	0.51
3:D:550:ARG:NH1	3:D:573:MET:HB3	2.26	0.51
2:M:1051:GLU:OE2	3:N:752:SER:CB	2.59	0.51
3:N:1209:LEU:C	3:N:1211:MET:N	2.63	0.51
1:A:127:LEU:O	1:A:127:LEU:HG	2.09	0.51
2:M:176:VAL:HG12	2:M:182:VAL:CG1	2.32	0.51
2:M:846:LYS:NZ	3:N:741:ASP:O	2.42	0.51
3:N:139:GLY:HA3	3:N:452:ILE:CD1	2.40	0.51
2:C:927:GLY:HA2	2:C:930:LYS:HE2	1.92	0.51
1:L:102:LYS:HG3	1:L:139:ASN:HB2	1.91	0.51
3:D:629:SER:HB3	3:D:726:ILE:CD1	2.39	0.51
1:B:14:ARG:HH11	1:B:14:ARG:HG3	1.76	0.51
2:M:442:GLU:HG2	2:M:454:SER:CB	2.41	0.51
3:D:650:LEU:HD22	3:D:688:TRP:CH2	2.46	0.51
3:N:538:SER:N	5:P:317:LEU:HD12	2.26	0.51
2:M:588:VAL:O	2:M:591:SER:O	2.28	0.51
3:D:1412:LYS:HG3	3:D:1414:PRO:HD3	1.92	0.51
3:D:58:CYS:SG	3:D:59:ALA:N	2.84	0.51
1:A:162:ILE:HG13	1:A:163:ASN:N	2.26	0.51
1:K:93:SER:OG	1:K:94:LEU:HD12	2.11	0.51
5:P:264:MET:O	5:P:267:THR:HB	2.10	0.51
3:N:550:ARG:HG3	3:N:550:ARG:HH11	1.76	0.51
3:N:558:LEU:HD13	5:P:145:PRO:HB3	1.93	0.51
3:D:123:LEU:O	3:D:126:VAL:HB	2.11	0.51
3:D:670:VAL:O	3:D:672:ALA:N	2.43	0.51
5:P:402:ASN:O	5:P:406:ARG:HD2	2.11	0.51
3:N:1433:SER:HB2	3:N:1457:ASP:CG	2.30	0.51
3:D:148:GLU:HA	3:D:151:GLN:HE21	1.76	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:1008:ARG:NH1	3:N:624:ASP:OD1	2.41	0.51
2:M:564:MET:HE1	2:M:846:LYS:HD2	1.93	0.51
2:M:971:LYS:HB3	2:M:986:PRO:O	2.11	0.51
3:N:1043:GLY:HA2	3:N:1057:VAL:H	1.76	0.51
3:N:603:LEU:O	3:N:606:ILE:HB	2.11	0.51
2:M:15:LEU:H	2:M:15:LEU:CD1	2.15	0.51
2:C:568:ALA:HB1	2:C:668:LEU:HB3	1.93	0.51
2:M:610:ARG:HD3	2:M:622:GLU:OE1	2.11	0.51
1:K:224:TYR:CG	1:L:9:PRO:HD2	2.46	0.51
3:N:231:VAL:CG1	3:N:378:ILE:HG23	2.41	0.51
3:D:1487:VAL:O	4:E:73:LEU:HD23	2.11	0.51
2:C:405:ARG:HD3	2:C:543:ASN:OD1	2.11	0.51
2:M:673:LEU:HD21	2:M:895:TYR:CZ	2.45	0.51
1:K:189:ARG:HH12	1:L:155:LYS:NZ	2.09	0.51
2:C:42:VAL:HG12	2:C:43:GLY:N	2.25	0.51
3:N:999:THR:O	3:N:1002:LYS:HB2	2.11	0.51
3:N:115:LEU:CD1	3:N:498:VAL:HG23	2.40	0.51
2:M:349:ALA:O	2:M:353:ARG:HG3	2.11	0.51
3:N:673:ALA:O	3:N:676:MET:HB3	2.10	0.51
2:C:431:HIS:HD2	2:C:432:ARG:N	2.08	0.51
3:D:1457:ASP:O	3:D:1457:ASP:OD1	2.29	0.51
3:N:152:LEU:HD23	3:N:152:LEU:H	1.76	0.51
3:D:542:ASP:O	3:D:546:ARG:CG	2.59	0.51
5:F:192:LEU:O	5:F:196:VAL:HG23	2.10	0.51
2:C:885:ILE:HD12	3:D:949:ILE:O	2.11	0.51
5:P:138:SER:HB2	5:P:140:ARG:HG2	1.92	0.51
2:C:484:VAL:O	2:C:486:MET:HG3	2.11	0.51
2:C:113:VAL:O	2:C:115:LEU:HD23	2.10	0.51
1:K:213:GLN:O	1:K:214:ALA:C	2.49	0.51
2:M:1008:ARG:HD2	2:M:1027:PHE:O	2.10	0.51
5:F:354:LEU:CD2	5:F:418:LEU:HD21	2.41	0.51
1:K:183:ASP:N	2:M:938:LYS:HZ2	2.09	0.51
1:B:100:LEU:CD1	1:B:115:LEU:HD21	2.37	0.51
2:M:226:VAL:HG13	2:M:227:PHE:CD1	2.45	0.51
2:C:127:PHE:CD1	2:C:386:PHE:CE2	2.95	0.51
2:C:145:GLY:N	2:C:163:ILE:HG23	2.25	0.51
2:M:714:ASP:N	2:M:818:GLY:O	2.44	0.51
5:P:260:ILE:HD11	5:P:264:MET:HB3	1.93	0.51
2:M:511:GLU:O	2:M:526:PRO:HD3	2.11	0.51
3:D:936:TYR:HE2	3:D:940:THR:HG21	1.76	0.51
2:C:853:LEU:HB3	2:C:858:MET:CE	2.41	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:56:TYR:CZ	3:N:66:GLN:HG3	2.45	0.50
2:C:493:ARG:HB3	2:C:494:TYR:CE2	2.46	0.50
3:D:522:PRO:HA	3:D:525:ARG:NH1	2.26	0.50
1:B:217:ILE:O	1:B:221:HIS:HB2	2.12	0.50
1:B:85:LEU:HD12	1:B:124:ASN:CB	2.41	0.50
3:D:670:VAL:O	3:D:671:LYS:C	2.50	0.50
3:D:378:ILE:H	3:D:378:ILE:CD1	2.10	0.50
3:D:240:GLU:O	3:D:244:GLU:N	2.45	0.50
1:K:206:THR:HG23	1:K:207:PRO:N	2.24	0.50
3:D:218:LYS:HG3	3:D:370:ALA:CB	2.40	0.50
5:F:405:LEU:O	5:F:408:LEU:HB3	2.11	0.50
2:M:300:ASP:C	2:M:302:VAL:N	2.64	0.50
2:M:537:LYS:NZ	2:M:537:LYS:CB	2.75	0.50
2:C:1021:LEU:HD21	5:F:332:PHE:HA	1.92	0.50
3:N:1438:ALA:C	3:N:1440:PHE:N	2.63	0.50
3:N:1058:ARG:CG	3:N:1058:ARG:HH11	2.23	0.50
3:D:1441:GLN:CA	3:D:1441:GLN:NE2	2.72	0.50
2:M:113:VAL:O	2:M:115:LEU:N	2.44	0.50
1:K:113:ASP:OD2	1:K:113:ASP:N	2.44	0.50
3:N:545:ARG:NH1	3:N:545:ARG:HB2	2.26	0.50
2:C:164:PRO:HB2	2:C:169:GLY:HA3	1.92	0.50
2:C:855:VAL:CG1	2:C:856:GLU:N	2.74	0.50
3:N:84:ILE:O	3:N:86:ARG:N	2.45	0.50
3:D:441:ARG:HG3	3:D:442:ASN:N	2.26	0.50
5:F:158:GLU:O	5:F:161:GLN:HB2	2.11	0.50
2:C:432:ARG:HH21	3:D:1048:PRO:HD2	1.76	0.50
3:D:525:ARG:N	3:D:526:PRO:CD	2.74	0.50
3:N:434:ARG:N	3:N:434:ARG:HD3	2.26	0.50
1:A:13:VAL:CG1	1:A:14:ARG:N	2.74	0.50
3:N:786:ILE:O	3:N:787:LEU:C	2.48	0.50
3:N:149:LYS:HE2	3:N:151:GLN:HE21	1.75	0.50
2:C:607:ASP:O	2:C:608:GLY:C	2.47	0.50
3:D:122:GLU:O	3:D:122:GLU:CD	2.49	0.50
1:B:36:LEU:C	1:B:39:PRO:HD2	2.31	0.50
3:N:385:VAL:HG12	3:N:387:LEU:CD1	2.40	0.50
2:M:1039:ALA:HB3	3:N:713:ILE:HD12	1.94	0.50
2:C:1059:ASP:O	2:C:1063:ARG:HG2	2.12	0.50
2:C:183:SER:CB	2:C:190:LYS:CD	2.89	0.50
2:C:182:VAL:HG12	2:C:183:SER:N	2.26	0.50
3:N:699:VAL:HG12	3:N:717:GLN:HA	1.93	0.50
3:N:1043:GLY:CA	3:N:1057:VAL:H	2.24	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1102:LEU:HD23	2:C:1106:ASP:HA	1.92	0.50
2:C:1040:LEU:HD21	2:C:1048:THR:HG22	1.93	0.50
5:P:298:GLY:O	5:P:303:ARG:NH1	2.43	0.50
2:C:517:ARG:HG3	2:C:517:ARG:HH11	1.76	0.50
3:D:1190:SER:OG	3:D:1369:GLU:OE1	2.27	0.50
3:D:896:ALA:HA	3:D:899:LEU:HD11	1.94	0.50
3:N:234:GLU:O	3:N:240:GLU:HB3	2.11	0.50
2:M:74:GLY:O	2:M:76:PRO:HD3	2.10	0.50
3:N:676:MET:HE2	3:N:684:LYS:HG3	1.92	0.50
2:C:328:LEU:HD11	2:C:434:HIS:CD2	2.47	0.50
2:C:71:TYR:HA	2:C:96:ALA:HB2	1.93	0.50
3:D:85:VAL:HB	3:D:89:ARG:CD	2.42	0.50
3:N:397:LYS:NZ	3:N:399:ARG:HH21	2.09	0.50
3:D:1432:LYS:HZ1	3:D:1460:ILE:HB	1.75	0.50
5:P:184:ARG:O	5:P:188:ILE:HG12	2.11	0.50
2:M:290:LEU:HD23	2:M:290:LEU:N	2.18	0.50
1:K:38:ASN:OD1	2:M:979:THR:C	2.48	0.50
3:D:1313:VAL:HG22	3:D:1314:LYS:N	2.25	0.50
5:F:321:ILE:HD13	5:F:322:GLY:H	1.72	0.50
2:M:640:ARG:HD3	2:M:642:ARG:HH22	1.74	0.50
3:N:1440:PHE:CB	3:N:1442:ASN:OD1	2.57	0.50
5:P:418:LEU:O	5:P:420:ASP:N	2.44	0.50
2:C:191:PHE:CD2	2:C:195:LEU:HD23	2.45	0.50
3:D:139:GLY:CA	3:D:147:VAL:HG13	2.41	0.50
3:N:196:VAL:HG22	3:N:204:LEU:CD2	2.39	0.50
1:L:101:LEU:HD11	1:L:113:ASP:HB2	1.92	0.50
4:O:63:TRP:O	4:O:66:LYS:N	2.44	0.50
2:M:606:VAL:HG11	2:M:643:VAL:O	2.12	0.50
2:M:606:VAL:HG23	2:M:606:VAL:O	2.11	0.50
2:C:74:GLY:C	2:C:75:GLU:HG3	2.31	0.50
3:D:1076:GLY:HA2	3:D:1079:LYS:CD	2.41	0.50
1:B:180:GLN:OE1	1:B:198:ARG:NH2	2.44	0.50
1:A:58:ILE:HB	1:A:61:VAL:HB	1.94	0.50
3:N:101:HIS:CD2	3:N:103:TRP:HB2	2.47	0.50
1:L:167:VAL:HG12	1:L:168:ASP:O	2.10	0.50
2:M:483:VAL:HG12	2:M:484:VAL:N	2.26	0.50
1:B:112:ARG:HB3	1:B:112:ARG:NH1	2.27	0.50
2:C:670:GLN:HE22	2:C:699:PHE:HA	1.76	0.50
2:M:142:ARG:HH11	2:M:325:ILE:HG23	1.74	0.50
3:N:570:GLU:O	3:N:572:ARG:N	2.45	0.50
3:D:218:LYS:HD2	3:D:372:ASP:CG	2.32	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:880:ILE:HD13	3:D:880:ILE:O	2.11	0.50
2:M:176:VAL:HG12	2:M:182:VAL:HG22	1.94	0.50
3:N:1066:THR:HG23	3:N:1069:GLU:HG3	1.94	0.50
2:M:537:LYS:HA	2:M:905:ILE:CD1	2.38	0.50
3:N:1101:VAL:O	3:N:1101:VAL:HG22	2.11	0.50
2:M:782:ALA:O	2:M:784:ASP:N	2.45	0.50
3:N:1008:PHE:O	3:N:1010:ASN:N	2.44	0.50
3:D:535:PHE:CD1	5:F:258:ILE:CD1	2.95	0.50
2:C:806:LEU:HD13	2:C:813:VAL:HG11	1.92	0.50
3:D:710:ARG:NH1	3:D:1210:SER:OG	2.44	0.50
2:M:881:ASN:N	2:M:881:ASN:ND2	2.59	0.50
2:M:601:GLY:HA3	2:M:615:TYR:HA	1.92	0.50
2:M:617:ASP:O	2:M:619:ARG:HG3	2.10	0.50
3:N:658:LEU:O	3:N:661:MET:HB2	2.11	0.50
2:C:51:THR:O	2:C:51:THR:HG22	2.12	0.50
3:N:162:ARG:HG3	3:N:434:ARG:HE	1.71	0.50
3:D:179:VAL:HG11	3:D:217:LYS:NZ	2.25	0.50
2:C:676:ILE:O	3:D:948:THR:HG22	2.10	0.50
2:M:1003:ASP:O	2:M:1004:LYS:C	2.48	0.50
3:N:1072:ILE:O	3:N:1075:HIS:HD2	1.95	0.50
2:M:281:LEU:HD23	2:M:281:LEU:H	1.77	0.50
2:M:586:ARG:HD2	2:M:590:ASP:OD2	2.12	0.50
2:M:610:ARG:C	2:M:611:ILE:HG13	2.32	0.50
1:B:201:THR:HG22	1:B:202:ASP:N	2.26	0.50
3:N:804:LEU:HD12	3:N:831:GLY:CA	2.40	0.50
3:D:1042:ARG:NH1	3:D:1061:PHE:CZ	2.79	0.50
2:C:200:LEU:HD22	2:C:300:ASP:N	2.27	0.50
2:C:203:ASP:O	2:C:207:LEU:HB2	2.12	0.50
2:C:810:ASP:HB3	2:C:813:VAL:CG2	2.39	0.50
2:M:603:VAL:HG21	2:M:643:VAL:CG1	2.42	0.50
1:A:5:LYS:O	1:A:8:ALA:CB	2.60	0.50
3:N:404:GLU:OE2	3:N:414:ARG:CZ	2.59	0.50
2:M:608:GLY:C	2:M:609:ASN:HD22	2.14	0.50
5:F:319:THR:HG23	5:F:320:PRO:HD2	1.93	0.50
3:N:658:LEU:HD23	3:N:661:MET:HE1	1.93	0.50
3:N:658:LEU:HA	3:N:661:MET:HE3	1.94	0.50
3:D:1425:THR:HG22	3:D:1426:LYS:N	2.26	0.50
2:C:285:LEU:HD13	2:C:301:GLU:HB3	1.94	0.50
2:C:139:GLN:O	2:C:333:ILE:HA	2.11	0.50
2:C:905:ILE:HG22	2:C:906:PHE:CG	2.47	0.50
3:D:107:ASP:O	3:D:108:VAL:C	2.50	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:615:ARG:O	3:D:619:LEU:HB2	2.12	0.50
3:N:131:LYS:O	3:N:131:LYS:HG2	2.12	0.50
3:N:137:PRO:HG2	3:N:453:ASP:CG	2.32	0.50
3:D:973:GLN:HA	3:D:976:GLN:OE1	2.12	0.50
2:M:355:VAL:HG23	2:M:372:LEU:HA	1.94	0.50
5:F:136:LEU:HD12	5:F:137:GLY:N	2.15	0.50
3:N:1389:LEU:H	3:N:1389:LEU:CD2	2.13	0.50
3:D:1080:GLY:O	3:D:1084:THR:HG23	2.11	0.50
2:C:1005:MET:HE1	3:D:648:MET:HB2	1.94	0.50
3:D:649:ALA:HA	3:D:652:LEU:HD22	1.94	0.50
3:D:711:LEU:O	3:D:714:GLN:HG3	2.12	0.50
3:D:731:LEU:HD11	3:D:931:LEU:HB3	1.93	0.50
2:C:403:SER:O	2:C:407:LYS:CE	2.59	0.50
2:C:1092:LEU:HD13	2:C:1099:VAL:CG2	2.40	0.50
5:P:284:ARG:O	5:P:286:PRO:HD3	2.12	0.50
2:C:235:LEU:O	2:C:239:PHE:HB2	2.12	0.50
3:N:166:GLN:HE21	3:N:167:GLU:C	2.15	0.50
4:E:61:GLU:CD	4:E:62:THR:H	2.15	0.50
4:E:41:GLU:O	4:E:42:PRO:C	2.49	0.50
2:M:41:ASN:HA	2:M:45:GLN:OE1	2.12	0.50
3:N:112:ILE:HG22	3:N:512:MET:CE	2.42	0.50
2:C:826:TYR:HD1	2:C:826:TYR:N	2.09	0.50
3:N:45:PHE:CD1	3:N:522:PRO:HB3	2.47	0.50
3:D:400:VAL:HG13	3:D:442:ASN:C	2.32	0.50
2:C:17:PRO:O	2:C:19:THR:N	2.45	0.50
3:N:394:LEU:N	3:N:394:LEU:HD12	2.26	0.50
3:N:187:LYS:HZ3	3:N:445:ARG:HH22	1.59	0.50
2:M:833:LEU:HD13	2:M:996:LYS:HD2	1.94	0.50
3:N:128:TYR:HE1	3:N:461:ILE:HG13	1.76	0.50
3:N:914:LEU:O	3:N:918:ALA:HB2	2.12	0.50
2:M:379:GLU:O	2:M:383:ARG:HB3	2.12	0.50
2:M:474:VAL:HG22	2:M:476:GLY:O	2.12	0.50
2:M:737:LEU:HA	2:M:743:VAL:HA	1.93	0.50
1:K:72:LYS:HA	2:M:607:ASP:O	2.11	0.50
3:D:603:LEU:O	3:D:606:ILE:HG13	2.12	0.50
3:N:1474:ALA:O	3:N:1475:GLY:C	2.50	0.50
1:L:58:ILE:HG22	1:L:59:GLU:HG2	1.93	0.50
2:C:824:ARG:HB3	2:C:826:TYR:HE1	1.76	0.50
1:L:1:MET:H3	1:L:1:MET:CE	2.24	0.50
2:C:243:ARG:HG2	2:C:243:ARG:HH11	1.77	0.50
3:D:1394:VAL:HG21	3:D:1397:LYS:HE2	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1490:LYS:HD2	4:E:93:TYR:OH	2.11	0.50
1:L:117:VAL:HB	1:L:120:VAL:HB	1.94	0.50
2:C:690:ILE:CG2	2:C:691:SER:N	2.75	0.50
3:D:402:PRO:HB2	3:D:413:ASP:O	2.12	0.50
2:C:431:HIS:C	2:C:433:THR:H	2.14	0.50
2:C:1014:SER:HA	5:F:333:ILE:O	2.11	0.50
3:N:131:LYS:HE3	3:N:568:ARG:HG2	1.94	0.50
4:E:26:ARG:O	4:E:29:GLN:HG2	2.10	0.50
1:A:206:THR:HB	1:A:209:GLU:CB	2.41	0.50
3:N:423:ASP:N	5:P:178:ARG:HE	2.10	0.50
3:D:858:VAL:HG12	3:D:862:ASP:HB3	1.94	0.50
3:D:1086:LEU:HD22	6:D:1525:STD:C11	2.40	0.50
3:D:220:ARG:HH11	3:D:222:GLY:HA3	1.76	0.50
3:N:1346:ARG:HG3	3:N:1346:ARG:HH11	1.77	0.50
3:D:826:PRO:O	3:D:836:VAL:HG11	2.11	0.50
2:C:588:VAL:HG23	2:C:596:TYR:OH	2.12	0.50
3:D:52:PRO:HG3	3:D:78:VAL:HG13	1.93	0.50
3:D:1155:VAL:HG21	3:D:1183:ILE:CD1	2.41	0.50
2:M:1115:LEU:HD13	3:N:85:VAL:CG1	2.41	0.50
2:M:244:PRO:HG2	2:M:245:GLY:H	1.76	0.50
4:E:51:LEU:HD12	4:E:52:GLU:C	2.32	0.50
2:M:41:ASN:O	2:M:46:ALA:HB2	2.11	0.50
4:O:70:THR:HG21	4:O:72:ARG:CZ	2.41	0.50
1:L:173:PRO:HB3	1:L:202:ASP:OD1	2.12	0.50
5:P:120:THR:C	5:P:122:LEU:H	2.15	0.50
2:M:1058:ASP:O	2:M:1060:ILE:N	2.45	0.50
3:N:658:LEU:HD11	3:N:674:ARG:HH11	1.76	0.50
2:C:139:GLN:O	2:C:334:ARG:N	2.40	0.50
2:C:338:GLU:HA	2:C:341:THR:CG2	2.42	0.50
2:C:437:ARG:NH2	2:C:488:ALA:HA	2.27	0.50
3:D:93:ILE:O	3:D:95:LEU:HD12	2.11	0.50
3:N:935:LYS:HG2	3:N:939:PHE:HE1	1.72	0.50
3:N:773:ALA:O	3:N:774:SER:CB	2.60	0.50
3:N:668:PRO:HD2	3:N:672:ALA:CB	2.33	0.50
3:D:796:ARG:HD2	3:D:861:GLN:O	2.11	0.50
3:D:728:LEU:HD12	3:D:729:HIS:N	2.25	0.50
3:D:613:ARG:NH1	3:D:613:ARG:HG3	2.25	0.50
3:D:98:PRO:HG2	3:D:462:GLN:NE2	2.20	0.50
3:D:1495:ILE:HG23	3:D:1499:ARG:NH2	2.24	0.50
2:C:313:LEU:HD13	2:C:321:GLU:HB2	1.93	0.50
2:M:768:THR:CB	2:M:771:GLU:HB3	2.42	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:131:VAL:HG13	5:F:178:ARG:HD3	1.94	0.50
4:O:9:LEU:HD21	4:O:69:LEU:HG	1.93	0.50
3:N:665:GLY:O	3:N:667:ALA:N	2.45	0.50
3:D:1114:THR:O	3:D:1116:ASN:N	2.44	0.50
5:F:164:LYS:CA	5:F:171:LYS:HZ2	2.25	0.49
3:D:172:PRO:CA	3:D:178:LEU:HD12	2.42	0.49
3:N:795:VAL:HG23	3:N:879:ARG:CZ	2.42	0.49
2:M:327:HIS:C	2:M:329:GLY:H	2.15	0.49
3:D:568:ARG:O	3:D:571:LYS:N	2.45	0.49
3:D:765:SER:OG	3:D:766:ALA:N	2.45	0.49
2:C:966:LEU:HD21	2:C:986:PRO:CG	2.30	0.49
3:N:216:VAL:CG1	3:N:221:ALA:HA	2.40	0.49
2:M:89:THR:O	2:M:91:GLN:N	2.45	0.49
3:N:479:GLU:O	3:N:481:MET:N	2.45	0.49
3:D:703:ASN:ND2	3:D:704:ARG:N	2.60	0.49
3:N:604:THR:C	3:N:606:ILE:N	2.63	0.49
5:P:316:SER:C	5:P:318:GLU:H	2.16	0.49
2:M:165:LEU:HA	2:M:166:PRO:C	2.32	0.49
1:L:80:LEU:HD13	3:N:842:VAL:HG12	1.94	0.49
3:N:444:VAL:O	3:N:446:VAL:HG23	2.11	0.49
5:P:202:TYR:CD1	5:P:247:ILE:HG21	2.47	0.49
2:M:338:GLU:HG2	2:M:342:ASP:OD2	2.12	0.49
2:M:483:VAL:HG12	2:M:484:VAL:H	1.77	0.49
1:L:7:LYS:O	1:L:7:LYS:HG2	2.10	0.49
3:N:650:LEU:O	3:N:650:LEU:HG	2.11	0.49
3:N:593:ASN:O	3:N:594:PRO:O	2.30	0.49
1:L:142:VAL:O	1:L:142:VAL:HG23	2.12	0.49
3:D:140:ALA:O	3:D:141:ILE:O	2.30	0.49
2:C:431:HIS:CD2	2:C:432:ARG:N	2.80	0.49
2:M:418:LEU:O	2:M:419:THR:O	2.30	0.49
3:N:764:LEU:CD2	3:N:766:ALA:HB3	2.42	0.49
3:N:99:ALA:HA	3:N:575:GLN:NE2	2.28	0.49
1:A:99:LEU:HB2	1:A:142:VAL:CG2	2.42	0.49
3:D:565:ILE:CD1	3:D:565:ILE:H	2.03	0.49
3:N:479:GLU:HA	3:N:483:HIS:NE2	2.28	0.49
3:N:800:LYS:HB2	3:N:829:VAL:HG12	1.93	0.49
3:D:598:ARG:HD2	3:D:599:PRO:CD	2.40	0.49
1:L:86:VAL:CG1	1:L:124:ASN:HB2	2.42	0.49
2:C:1111:ILE:O	2:C:1113:GLU:N	2.45	0.49
2:C:1090:LYS:HE2	2:C:1112:PHE:CZ	2.47	0.49
5:P:418:LEU:HD12	5:P:418:LEU:N	2.27	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:199:ILE:HD12	1:A:199:ILE:N	2.27	0.49
1:A:41:ARG:HA	1:A:44:LEU:HD12	1.94	0.49
1:L:176:ARG:H	1:L:200:TRP:CB	2.24	0.49
3:D:959:GLU:O	3:D:963:TYR:CD1	2.65	0.49
2:C:196:LEU:HD23	2:C:196:LEU:O	2.12	0.49
5:P:272:SER:O	5:P:275:ALA:N	2.44	0.49
2:M:517:ARG:HH11	2:M:517:ARG:HG3	1.77	0.49
2:M:421:GLU:O	2:M:422:ARG:HB2	2.12	0.49
4:O:79:LEU:HD13	4:O:79:LEU:O	2.12	0.49
3:D:633:VAL:HG22	3:D:635:PRO:HD3	1.95	0.49
2:C:491:GLU:O	2:C:493:ARG:N	2.46	0.49
3:N:434:ARG:HG2	3:N:447:VAL:CG2	2.42	0.49
5:F:94:LEU:HD12	5:F:96:LEU:H	1.74	0.49
3:N:792:ILE:HG23	3:N:793:THR:HG23	1.94	0.49
3:D:1457:ASP:OD1	3:D:1459:LEU:HD23	2.11	0.49
2:C:607:ASP:O	2:C:610:ARG:N	2.45	0.49
2:M:1047:HIS:O	2:M:1050:GLN:CB	2.57	0.49
2:M:129:ILE:CD1	2:M:129:ILE:N	2.75	0.49
2:M:287:GLY:O	2:M:288:ARG:C	2.50	0.49
1:K:212:ASN:O	1:K:215:VAL:HG22	2.12	0.49
3:D:1282:ARG:HH12	3:D:1293:PHE:HD2	1.61	0.49
2:M:983:ILE:O	2:M:984:GLU:C	2.50	0.49
2:C:438:ILE:HA	2:C:455:LEU:HA	1.93	0.49
3:N:895:VAL:HG11	3:N:922:LEU:HD21	1.94	0.49
3:N:598:ARG:HH22	5:P:318:GLU:HG3	1.77	0.49
3:N:1397:LYS:NZ	3:N:1432:LYS:HB3	2.26	0.49
3:N:30:GLU:HG3	3:N:41:ARG:HE	1.77	0.49
1:L:86:VAL:HG12	1:L:124:ASN:HB2	1.93	0.49
3:N:1008:PHE:O	3:N:1009:LYS:C	2.49	0.49
5:F:262:VAL:O	5:F:265:VAL:HB	2.12	0.49
3:D:845:ASN:O	3:D:846:PRO:C	2.50	0.49
2:C:185:LYS:HE3	2:C:185:LYS:N	2.25	0.49
2:M:899:GLN:HG3	2:M:901:TYR:CZ	2.47	0.49
2:M:923:GLU:O	2:M:927:GLY:HA3	2.12	0.49
1:B:57:TYR:HE1	1:B:163:ASN:HB2	1.75	0.49
5:P:156:VAL:HG13	5:P:157:GLU:H	1.77	0.49
1:B:143:ARG:HG2	1:B:145:ASP:OD1	2.13	0.49
3:D:783:ARG:HH21	3:D:1029:ARG:HG3	1.77	0.49
5:P:323:ASP:O	5:P:324:GLU:C	2.51	0.49
3:D:91:GLY:O	3:D:519:VAL:N	2.45	0.49
3:D:560:GLN:NE2	5:F:218:GLN:HE22	2.10	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:691:SER:N	2:C:868:ASP:O	2.46	0.49
3:D:433:GLY:N	3:D:448:GLU:HA	2.26	0.49
2:M:1085:PHE:O	2:M:1086:ARG:C	2.50	0.49
3:N:658:LEU:HD23	3:N:661:MET:CE	2.43	0.49
2:C:49:ARG:CA	2:C:49:ARG:HH11	2.25	0.49
3:D:1047:LYS:HB2	3:D:1049:SER:OG	2.12	0.49
2:M:417:GLY:C	2:M:418:LEU:HD22	2.33	0.49
3:D:911:LEU:O	3:D:914:LEU:N	2.46	0.49
2:C:602:GLU:HB3	2:C:614:ARG:CB	2.40	0.49
3:N:131:LYS:HB2	3:N:572:ARG:HH21	1.77	0.49
3:D:118:LEU:O	3:D:120:ALA:N	2.45	0.49
3:D:122:GLU:O	3:D:122:GLU:OE1	2.31	0.49
3:D:567:ILE:HG22	3:D:571:LYS:HZ1	1.77	0.49
3:D:575:GLN:O	3:D:579:ASP:OD1	2.30	0.49
4:E:44:GLU:O	4:E:45:ARG:HD3	2.13	0.49
1:B:211:LEU:O	1:B:214:ALA:HB3	2.12	0.49
2:C:1059:ASP:OD2	2:C:1080:SER:HB2	2.12	0.49
3:N:628:ARG:HA	3:N:745:MET:O	2.13	0.49
2:M:516:ARG:NH2	3:N:1068:LEU:HB2	2.27	0.49
2:M:147:TYR:CE2	2:M:276:LYS:HD3	2.48	0.49
3:N:1438:ALA:O	3:N:1440:PHE:N	2.45	0.49
3:D:699:VAL:HG12	3:D:717:GLN:CB	2.42	0.49
1:K:73:GLU:OE1	1:K:130:ALA:HA	2.13	0.49
3:D:1373:ARG:CG	3:D:1374:GLN:HE21	2.25	0.49
5:F:243:ILE:O	5:F:247:ILE:HG13	2.12	0.49
3:N:1107:VAL:HG12	3:N:1217:ILE:HA	1.93	0.49
5:P:346:THR:O	5:P:348:SER:N	2.45	0.49
3:D:1014:ASN:O	3:D:1015:TYR:HD1	1.96	0.49
3:N:239:GLY:C	3:N:241:ILE:H	2.15	0.49
3:N:1500:LYS:O	3:N:1503:VAL:HG23	2.13	0.49
3:N:14:SER:OG	3:N:511:TRP:NE1	2.43	0.49
2:C:789:SER:HB2	2:C:791:ARG:HE	1.77	0.49
3:D:503:LEU:O	3:D:504:ASP:O	2.30	0.49
3:D:1262:LEU:C	3:D:1264:GLU:H	2.16	0.49
2:C:140:ILE:HG21	2:C:331:ARG:NH1	2.28	0.49
3:D:911:LEU:O	3:D:912:LYS:C	2.50	0.49
3:D:543:LEU:O	3:D:546:ARG:HB2	2.13	0.49
3:N:385:VAL:HG12	3:N:387:LEU:HD12	1.94	0.49
3:D:135:LEU:HD23	3:D:136:ASP:O	2.12	0.49
3:D:245:LEU:CD1	3:D:366:LYS:HE2	2.43	0.49
3:N:13:ALA:HB1	3:N:18:ILE:CD1	2.41	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:374:ASN:O	2:M:377:PRO:HD2	2.12	0.49
3:N:988:ARG:NH1	3:N:992:ILE:HD11	2.27	0.49
3:N:1320:GLU:HG3	3:N:1323:GLN:NE2	2.27	0.49
2:C:589:ARG:HD3	2:C:596:TYR:CE2	2.47	0.49
3:D:806:PHE:CD1	3:D:812:ALA:HB3	2.48	0.49
3:N:535:PHE:O	5:P:314:PRO:CA	2.60	0.49
3:N:769:LEU:N	3:N:769:LEU:CD1	2.76	0.49
4:O:6:ILE:HG23	4:O:7:ASP:N	2.27	0.49
1:B:167:VAL:HG12	1:B:168:ASP:H	1.77	0.49
2:C:860:HIS:CE1	2:C:977:GLY:HA2	2.46	0.49
2:C:892:LEU:HD12	2:C:892:LEU:O	2.12	0.49
1:L:112:ARG:CZ	1:L:112:ARG:HB3	2.43	0.49
3:N:1263:PHE:CE2	3:N:1371:VAL:HG11	2.48	0.49
1:A:53:VAL:HG21	1:A:82:LEU:HB3	1.95	0.49
3:N:35:ARG:CB	3:N:35:ARG:HH11	2.25	0.49
3:N:661:MET:SD	3:N:673:ALA:HB1	2.52	0.49
3:D:177:ALA:O	3:D:199:LEU:HD13	2.12	0.49
2:C:882:LEU:HD11	3:D:1038:LEU:HD22	1.93	0.49
1:B:33:GLY:C	1:B:181:VAL:HG21	2.33	0.49
1:B:32:PHE:C	1:B:34:VAL:N	2.63	0.49
2:C:580:MET:O	2:C:902:ILE:HG23	2.13	0.49
3:D:656:PHE:HE1	3:D:751:LEU:HD23	1.78	0.49
3:N:428:LYS:NZ	5:P:138:SER:OG	2.45	0.49
1:B:207:PRO:O	1:B:208:LEU:C	2.51	0.49
2:C:443:THR:HG23	2:C:444:PRO:CD	2.41	0.49
2:C:69:LEU:HB2	2:C:97:ARG:O	2.13	0.49
2:M:551:GLU:CG	2:M:906:PHE:HA	2.42	0.49
2:M:478:VAL:HG13	2:M:506:ASN:CB	2.32	0.49
3:D:1231:GLU:O	3:D:1232:PRO:C	2.51	0.49
3:D:731:LEU:CD1	3:D:931:LEU:HB3	2.43	0.49
2:M:197:LEU:HD13	2:M:207:LEU:CD1	2.43	0.49
3:D:699:VAL:HA	3:D:717:GLN:HA	1.95	0.49
5:F:367:MET:HA	5:F:370:LYS:HB3	1.95	0.49
2:C:497:ALA:HA	2:C:515:ALA:HA	1.93	0.49
3:D:1118:ILE:HD11	3:D:1346:ARG:NH1	2.27	0.49
3:D:12:LEU:HD21	3:D:104:PHE:HE1	1.78	0.49
5:P:77:THR:CA	5:P:80:PRO:HD2	2.42	0.49
4:O:7:ASP:O	4:O:10:PHE:HB2	2.13	0.49
3:N:1435:LEU:O	3:N:1437:ALA:N	2.46	0.49
2:M:135:VAL:HG11	2:M:406:HIS:HD1	1.75	0.49
5:P:198:ILE:HD11	5:P:240:THR:HG23	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:544:THR:HA	2:C:547:ILE:CD1	2.42	0.49
1:B:108:GLU:CD	1:B:131:THR:HG22	2.33	0.49
1:B:47:SER:O	1:B:48:ILE:C	2.50	0.49
2:C:691:SER:C	2:C:693:GLU:H	2.15	0.49
5:F:161:GLN:CA	5:F:164:LYS:HE2	2.21	0.49
2:C:283:ILE:HG22	2:C:284:ARG:HG3	1.93	0.49
2:C:24:GLU:O	2:C:27:ARG:HB3	2.13	0.49
3:D:89:ARG:HH11	3:D:89:ARG:HG2	1.77	0.49
3:N:434:ARG:CD	3:N:434:ARG:H	2.24	0.49
3:N:434:ARG:H	3:N:434:ARG:HD3	1.77	0.49
1:B:213:GLN:O	1:B:217:ILE:HG13	2.13	0.49
3:N:790:TYR:HD2	3:N:906:GLN:O	1.95	0.49
3:D:122:GLU:O	3:D:126:VAL:HG23	2.12	0.49
2:C:580:MET:HB3	2:C:584:GLU:CD	2.33	0.49
3:D:965:GLU:HG3	3:D:969:ARG:NH2	2.27	0.49
1:B:23:PHE:CD2	1:B:211:LEU:HD22	2.48	0.49
3:N:911:LEU:O	3:N:912:LYS:C	2.50	0.49
3:D:1281:VAL:HB	3:D:1316:GLY:H	1.78	0.49
3:D:695:ILE:O	3:D:696:HIS:C	2.50	0.49
2:M:1099:VAL:HA	3:N:9:ARG:O	2.12	0.49
3:D:890:VAL:HG12	3:D:926:LYS:HG2	1.94	0.49
1:B:54:THR:O	1:B:167:VAL:HB	2.12	0.49
2:C:928:LYS:O	2:C:931:GLY:N	2.40	0.49
2:C:651:LYS:HG3	2:C:652:GLY:N	2.28	0.49
3:N:1422:MET:CE	3:N:1427:SER:HA	2.42	0.49
5:F:316:SER:OG	5:F:318:GLU:HG2	2.13	0.49
2:M:1085:PHE:CD2	2:M:1088:LEU:HD23	2.47	0.49
3:N:55:ASP:HB3	3:N:82:LYS:HE2	1.95	0.49
3:D:191:LEU:HD12	3:D:211:VAL:CG2	2.37	0.49
5:F:154:LYS:O	5:F:158:GLU:CG	2.54	0.49
3:N:814:ALA:O	3:N:818:ARG:HG3	2.13	0.49
3:D:217:LYS:CE	3:D:389:GLU:HB3	2.42	0.49
2:M:692:GLU:O	2:M:693:GLU:C	2.51	0.49
3:N:573:MET:CE	5:P:214:GLN:HG3	2.42	0.49
3:D:112:ILE:O	3:D:116:LEU:HB2	2.13	0.49
3:D:119:SER:H	3:D:123:LEU:CD1	2.26	0.49
5:P:94:LEU:HD12	5:P:96:LEU:H	1.78	0.49
2:M:491:GLU:C	2:M:493:ARG:H	2.15	0.49
5:F:350:LEU:HD13	5:F:422:LEU:HB2	1.95	0.49
2:M:259:GLY:HA2	2:M:290:LEU:O	2.13	0.49
3:D:860:LEU:HD22	3:D:878:GLY:HA2	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:182:GLU:OE2	2:C:935:GLY:N	2.43	0.49
2:M:537:LYS:NZ	2:M:537:LYS:HB2	2.28	0.49
2:M:537:LYS:N	2:M:905:ILE:HD11	2.28	0.49
3:D:1107:VAL:HB	3:D:1219:GLU:H	1.77	0.49
3:D:716:PHE:CD1	3:D:716:PHE:N	2.80	0.49
2:C:841:ASN:ND2	2:C:845:ASN:H	2.03	0.49
3:N:1007:VAL:HG23	3:N:1008:PHE:N	2.27	0.49
3:N:76:CYS:O	3:N:78:VAL:HG23	2.13	0.49
2:C:148:PHE:CE1	2:C:309:TYR:HD2	2.31	0.49
2:C:840:ALA:HB2	2:C:846:LYS:HA	1.93	0.49
2:M:167:LYS:C	2:M:169:GLY:N	2.65	0.49
2:M:398:THR:CG2	2:M:635:THR:HG21	2.43	0.49
3:D:465:LEU:HD13	3:D:509:PRO:O	2.12	0.49
2:M:72:ARG:NH1	2:M:72:ARG:HG3	2.27	0.49
3:N:1128:VAL:O	3:N:1130:ARG:N	2.46	0.49
2:M:336:VAL:HA	2:M:339:LEU:HB2	1.94	0.49
2:C:751:PRO:CG	2:C:796:GLU:HA	2.42	0.49
3:D:1062:ARG:HD3	3:D:1062:ARG:O	2.13	0.49
3:D:1426:LYS:HB2	3:D:1426:LYS:NZ	2.27	0.49
3:D:1277:ILE:HD11	3:D:1301:LYS:HB2	1.94	0.49
2:M:415:PRO:CG	2:M:418:LEU:HD23	2.42	0.49
2:M:572:ILE:HG13	2:M:573:ARG:N	2.27	0.49
2:C:1030:GLN:HB2	3:D:626:SER:CB	2.43	0.49
5:P:191:ASN:C	5:P:193:ARG:H	2.15	0.49
3:D:486:ARG:HA	3:D:486:ARG:HE	1.78	0.49
2:M:742:VAL:HG12	2:M:743:VAL:N	2.27	0.49
3:N:739:ASP:O	3:N:743:ASP:OD2	2.31	0.49
2:M:775:ARG:HH11	2:M:782:ALA:HB3	1.76	0.49
3:N:862:ASP:O	3:N:876:SER:HB2	2.13	0.49
2:M:925:TYR:CD2	2:M:967:PHE:CE1	3.00	0.49
3:N:1086:LEU:HG	3:N:1090:ASP:OD2	2.12	0.49
2:C:1089:VAL:HB	2:C:1112:PHE:HZ	1.76	0.49
5:P:416:ARG:NE	5:P:419:ARG:HD2	2.28	0.49
2:C:235:LEU:HD23	2:C:235:LEU:O	2.12	0.49
3:N:925:GLU:OE1	4:O:7:ASP:HB2	2.13	0.49
1:A:56:VAL:HG12	1:A:57:TYR:N	2.27	0.49
5:P:344:ALA:O	5:P:348:SER:HB3	2.13	0.49
3:D:19:ARG:O	3:D:22:SER:N	2.35	0.49
1:B:20:TYR:HE2	1:B:198:ARG:HB3	1.78	0.49
1:B:95:GLN:O	1:B:96:THR:HB	2.13	0.49
2:C:292:ARG:HD2	2:C:299:LYS:CD	2.43	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1058:ASP:OD1	2:C:1084:SER:OG	2.19	0.49
2:M:680:ASP:OD2	3:N:943:THR:HG21	2.13	0.49
1:A:67:THR:HG21	2:C:609:ASN:CG	2.33	0.49
3:N:131:LYS:HE2	3:N:456:MET:HE2	1.94	0.49
1:A:32:PHE:O	1:A:34:VAL:N	2.46	0.49
1:K:58:ILE:HG21	1:K:68:ILE:HD11	1.95	0.49
5:P:181:GLU:OE1	5:P:185:GLN:HG2	2.12	0.49
3:D:228:ALA:O	3:D:231:VAL:HG22	2.13	0.49
2:M:1030:GLN:H	3:N:626:SER:CB	2.26	0.49
2:M:101:ILE:HG22	2:M:102:HIS:N	2.28	0.49
3:D:703:ASN:ND2	3:D:704:ARG:H	2.08	0.49
2:M:545:ASN:HA	2:M:905:ILE:HG21	1.95	0.49
2:C:1102:LEU:HD13	3:D:9:ARG:CB	2.40	0.49
2:C:496:ILE:O	2:C:515:ALA:CB	2.60	0.49
1:L:101:LEU:HD12	1:L:113:ASP:C	2.33	0.49
2:C:957:LYS:HG2	2:C:961:GLU:HB2	1.95	0.49
2:M:715:THR:HG22	2:M:716:LYS:N	2.27	0.49
3:D:1096:ARG:HH11	3:D:1096:ARG:CB	2.26	0.49
3:N:1307:LYS:C	3:N:1309:ALA:H	2.16	0.49
2:M:708:TYR:N	2:M:708:TYR:CD1	2.80	0.49
3:D:932:ASP:HA	3:D:935:LYS:HE2	1.94	0.48
2:C:41:ASN:HD22	2:C:41:ASN:H	1.61	0.48
3:N:187:LYS:HZ1	3:N:212:ARG:HG3	1.78	0.48
1:A:208:LEU:O	1:A:209:GLU:C	2.49	0.48
2:M:18:LEU:HA	2:M:408:ARG:HH22	1.75	0.48
3:D:1151:ARG:O	3:D:1152:GLU:O	2.30	0.48
3:D:795:VAL:CG1	3:D:796:ARG:H	2.26	0.48
3:D:853:VAL:HG11	3:D:860:LEU:HG	1.94	0.48
3:N:1042:ARG:CG	3:N:1042:ARG:O	2.60	0.48
3:D:1228:SER:O	3:D:1232:PRO:HD2	2.12	0.48
3:N:834:THR:HB	3:N:838:ARG:HB2	1.94	0.48
2:C:621:VAL:HG12	2:C:622:GLU:O	2.12	0.48
2:M:544:THR:O	2:M:547:ILE:HG13	2.13	0.48
2:C:841:ASN:H	2:C:841:ASN:ND2	2.09	0.48
2:M:683:ASN:HA	2:M:687:ALA:HB3	1.94	0.48
3:N:804:LEU:HD12	3:N:831:GLY:HA3	1.95	0.48
1:L:101:LEU:HD22	1:L:140:MET:CE	2.43	0.48
2:C:313:LEU:C	2:C:315:ALA:H	2.15	0.48
3:N:557:LEU:O	3:N:562:ALA:HB2	2.13	0.48
2:M:167:LYS:HZ3	2:M:168:ARG:HH21	1.61	0.48
2:C:701:THR:CG2	2:C:832:LYS:HA	2.43	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:1101:THR:HB	3:N:5:VAL:HG22	1.94	0.48
3:N:1353:GLN:OE1	3:N:1353:GLN:HA	2.12	0.48
2:M:539:VAL:HG21	3:N:1067:VAL:CG1	2.42	0.48
2:M:728:HIS:O	2:M:729:LEU:HD22	2.13	0.48
2:C:749:VAL:HG23	2:C:749:VAL:O	2.12	0.48
3:D:633:VAL:HG13	3:D:635:PRO:HD3	1.95	0.48
3:N:177:ALA:HB1	3:N:199:LEU:CD2	2.42	0.48
2:C:332:ARG:HG3	2:C:465:GLY:O	2.12	0.48
3:D:95:LEU:HD12	3:D:95:LEU:N	2.28	0.48
3:N:127:LEU:HD22	3:N:134:VAL:CG2	2.43	0.48
1:K:143:ARG:NH2	1:K:145:ASP:OD2	2.46	0.48
5:P:406:ARG:HG2	5:P:409:LYS:CE	2.43	0.48
3:D:1263:PHE:O	3:D:1424:VAL:HG23	2.13	0.48
2:M:495:THR:N	2:M:530:GLU:OE1	2.43	0.48
2:M:677:MET:CE	2:M:983:ILE:HD12	2.43	0.48
2:M:987:ILE:HD12	3:N:948:THR:CG2	2.42	0.48
1:K:202:ASP:OD2	1:K:203:GLY:N	2.45	0.48
2:C:1102:LEU:HD23	2:C:1106:ASP:CA	2.43	0.48
3:D:10:ILE:HG22	3:D:11:ALA:N	2.28	0.48
5:F:208:SER:O	5:F:212:LEU:HG	2.12	0.48
1:A:41:ARG:NH1	1:A:177:VAL:O	2.45	0.48
4:E:10:PHE:CZ	4:E:16:LYS:HG3	2.48	0.48
5:F:282:LEU:HD12	5:F:284:ARG:CB	2.42	0.48
3:D:104:PHE:CE2	3:D:1448:THR:HG23	2.48	0.48
2:C:144:PRO:O	2:C:276:LYS:HG2	2.13	0.48
2:M:1092:LEU:HD12	2:M:1092:LEU:N	2.28	0.48
5:P:369:LEU:HB3	5:P:373:LYS:CD	2.43	0.48
2:C:939:ARG:O	2:C:942:GLU:N	2.46	0.48
2:C:8:ARG:HD3	2:C:10:ARG:NH1	2.28	0.48
2:M:1012:PRO:O	2:M:1013:TYR:CG	2.67	0.48
2:C:972:VAL:HG23	2:C:974:LEU:HD13	1.96	0.48
2:C:976:ASP:C	2:C:978:ARG:H	2.16	0.48
2:M:1019:GLN:HE22	3:N:621:LYS:CA	2.26	0.48
3:N:661:MET:HE2	3:N:677:LEU:HD11	1.95	0.48
3:N:84:ILE:C	3:N:86:ARG:N	2.67	0.48
2:C:333:ILE:HD12	2:C:333:ILE:N	2.29	0.48
3:D:180:LYS:HE2	3:D:219:GLU:HB2	1.96	0.48
2:C:266:ARG:HD3	2:C:288:ARG:HH11	1.78	0.48
4:E:26:ARG:NH2	4:E:39:VAL:HG13	2.29	0.48
2:M:535:SER:O	2:M:538:GLN:HG2	2.13	0.48
2:M:260:LEU:HA	2:M:291:ALA:HB2	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:218:LYS:HG3	3:D:370:ALA:HB1	1.94	0.48
3:N:648:MET:O	3:N:652:LEU:HD22	2.13	0.48
3:D:1357:ARG:C	3:D:1359:GLN:N	2.66	0.48
2:M:15:LEU:HB3	2:M:16:PRO:HD2	1.95	0.48
2:M:775:ARG:NH1	2:M:782:ALA:HB3	2.28	0.48
1:K:91:ASN:CG	1:K:92:PRO:CD	2.82	0.48
1:L:137:ARG:HG2	1:L:137:ARG:NH1	2.28	0.48
1:A:109:VAL:HG23	1:A:132:LEU:HD13	1.95	0.48
2:M:227:PHE:C	2:M:229:MET:H	2.16	0.48
2:C:408:ARG:NH1	2:C:542:VAL:HG23	2.27	0.48
5:P:369:LEU:HA	5:P:372:ARG:HB2	1.96	0.48
2:M:705:ILE:HG12	2:M:828:ALA:HB2	1.94	0.48
2:C:937:ASP:C	2:C:939:ARG:H	2.15	0.48
3:D:1484:THR:HG22	3:D:1485:GLN:H	1.76	0.48
3:N:70:GLY:C	3:N:71:LYS:HD3	2.33	0.48
1:L:99:LEU:HD21	1:L:114:PHE:HB3	1.95	0.48
3:D:444:VAL:HG22	3:D:444:VAL:O	2.13	0.48
3:N:622:ARG:HG2	3:N:622:ARG:HH11	1.77	0.48
3:N:658:LEU:HD13	3:N:674:ARG:HG2	1.94	0.48
2:C:535:SER:H	2:C:538:GLN:HE21	1.61	0.48
3:D:215:TYR:O	3:D:389:GLU:HA	2.14	0.48
2:M:670:GLN:NE2	2:M:699:PHE:CG	2.81	0.48
5:F:136:LEU:CD1	5:F:137:GLY:N	2.76	0.48
2:M:561:GLY:O	2:M:564:MET:HB2	2.13	0.48
3:N:858:VAL:CG1	3:N:859:ASP:H	2.22	0.48
2:C:1034:GLU:O	2:C:1037:VAL:N	2.46	0.48
3:D:582:LEU:O	3:D:603:LEU:HB2	2.13	0.48
1:A:147:GLY:HA3	1:A:171:PHE:CE2	2.49	0.48
1:B:153:ALA:O	1:B:156:HIS:HD2	1.97	0.48
5:F:78:SER:HB2	5:F:82:ARG:HH21	1.78	0.48
3:D:1120:VAL:HG23	3:D:1188:VAL:HG11	1.94	0.48
2:C:200:LEU:HD13	2:C:300:ASP:CG	2.33	0.48
1:L:162:ILE:C	1:L:163:ASN:HD22	2.17	0.48
2:C:758:ARG:HG2	2:C:759:THR:H	1.79	0.48
2:M:384:GLU:HG3	2:M:388:ARG:NE	2.28	0.48
3:N:1238:MET:CG	3:N:1239:ARG:N	2.76	0.48
3:N:1034:GLN:O	3:N:1038:LEU:CD1	2.62	0.48
3:N:371:ILE:HD12	3:N:371:ILE:C	2.34	0.48
5:P:90:GLN:O	5:P:90:GLN:HG2	2.13	0.48
2:M:122:THR:HG22	2:M:123:GLU:N	2.28	0.48
2:M:151:ASP:H	2:M:158:TYR:HA	1.78	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1264:GLU:CG	3:D:1266:ARG:CZ	2.83	0.48
2:C:545:ASN:HA	2:C:905:ILE:HD11	1.95	0.48
2:M:691:SER:O	2:M:692:GLU:C	2.51	0.48
2:M:1097:LEU:HD23	3:N:10:ILE:CD1	2.30	0.48
2:M:130:ASN:ND2	2:M:383:ARG:HH21	2.08	0.48
2:M:862:PRO:HA	2:M:975:TYR:CE1	2.48	0.48
1:A:184:THR:CG2	1:A:192:LEU:HB2	2.43	0.48
2:M:193:LEU:O	2:M:197:LEU:HG	2.13	0.48
3:D:606:ILE:HA	3:D:613:ARG:HD2	1.95	0.48
3:D:1480:PHE:O	4:E:18:ARG:NH2	2.46	0.48
1:A:101:LEU:HG	1:A:102:LYS:H	1.79	0.48
3:N:28:LYS:HA	3:N:29:PRO:HD3	1.70	0.48
3:N:97:THR:HG21	3:N:571:LYS:CD	2.40	0.48
3:N:12:LEU:H	3:N:507:ASN:ND2	2.12	0.48
3:D:1372:VAL:HG22	3:D:1375:MET:HE1	1.91	0.48
2:M:165:LEU:HA	2:M:166:PRO:O	2.13	0.48
1:A:227:ASN:O	1:A:227:ASN:ND2	2.46	0.48
5:F:234:LYS:HD2	5:F:236:SER:HB2	1.94	0.48
3:N:811:GLU:O	3:N:815:ALA:CB	2.61	0.48
5:P:288:TYR:HA	5:P:291:ILE:HG22	1.94	0.48
1:L:180:GLN:O	1:L:196:THR:HG22	2.13	0.48
3:N:23:TYR:CE2	3:N:89:ARG:HD3	2.49	0.48
5:F:108:GLU:HA	5:F:108:GLU:OE1	2.13	0.48
3:D:586:ARG:NH1	3:D:1444:THR:HG21	2.29	0.48
4:O:5:GLY:HA3	4:O:8:LYS:HD2	1.95	0.48
1:K:171:PHE:O	1:K:172:SER:C	2.52	0.48
2:C:345:ARG:HB3	2:C:345:ARG:NH1	2.28	0.48
2:C:254:VAL:HG22	2:C:258:TYR:CE1	2.48	0.48
3:N:657:LEU:HG	3:N:661:MET:HE3	1.94	0.48
3:N:808:THR:H	3:N:809:PRO:CD	2.27	0.48
3:D:178:LEU:O	3:D:180:LYS:N	2.47	0.48
1:A:35:THR:HA	1:B:42:ARG:HD3	1.94	0.48
2:M:83:CYS:O	2:M:86:LYS:O	2.31	0.48
1:A:18:ARG:NH1	1:A:88:ARG:NE	2.50	0.48
3:N:168:THR:C	3:N:170:PRO:HD3	2.34	0.48
2:C:115:LEU:HA	2:C:375:SER:OG	2.14	0.48
3:D:1314:LYS:HZ3	3:D:1317:ASP:CB	2.26	0.48
2:M:368:THR:CB	2:M:369:PRO:HD3	2.34	0.48
1:B:132:LEU:HD11	1:B:138:LEU:HD13	1.94	0.48
3:N:40:GLU:CG	3:N:41:ARG:H	2.26	0.48
2:C:91:GLN:HB3	2:C:117:HIS:HB3	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:834:THR:HG22	3:D:838:ARG:CB	2.43	0.48
2:M:165:LEU:HD12	2:M:166:PRO:CA	2.41	0.48
5:F:189:GLU:C	5:F:191:ASN:H	2.17	0.48
5:F:194:LEU:O	5:F:198:ILE:HG13	2.12	0.48
2:C:835:VAL:HA	2:C:849:VAL:CG1	2.44	0.48
2:C:730:SER:O	2:C:734:LEU:HD23	2.13	0.48
2:M:208:ALA:HA	2:M:218:VAL:HG11	1.95	0.48
2:M:666:LEU:CG	2:M:668:LEU:HD11	2.44	0.48
2:C:704:HIS:HB3	2:C:831:ARG:NH1	2.29	0.48
4:O:31:LEU:O	4:O:34:GLY:O	2.32	0.48
2:C:774:LEU:HD13	2:C:774:LEU:C	2.33	0.48
3:D:161:LEU:O	3:D:449:SER:CB	2.62	0.48
3:D:1277:ILE:HB	3:D:1294:VAL:HG11	1.95	0.48
3:D:201:GLY:O	3:D:203:ALA:N	2.46	0.48
3:N:646:LYS:CA	3:N:720:LEU:HD22	2.42	0.48
2:C:602:GLU:CB	2:C:614:ARG:HB3	2.40	0.48
2:C:650:ARG:H	2:C:650:ARG:HD3	1.78	0.48
3:D:116:LEU:CD2	3:D:468:LEU:HD11	2.43	0.48
3:D:547:LEU:CD2	3:D:581:LEU:HD21	2.43	0.48
1:B:85:LEU:HD12	1:B:124:ASN:HB2	1.96	0.48
2:M:1047:HIS:ND1	3:N:754:PHE:CG	2.82	0.48
3:D:996:TRP:CD1	3:D:1056:PRO:CG	2.96	0.48
3:N:460:ALA:O	3:N:463:GLN:HB2	2.14	0.48
1:B:23:PHE:HZ	1:B:208:LEU:HA	1.77	0.48
5:P:406:ARG:CG	5:P:409:LYS:HE2	2.42	0.48
2:M:265:ARG:HG3	2:M:288:ARG:CD	2.43	0.48
3:N:438:ASP:HB3	3:N:443:VAL:HB	1.94	0.48
2:M:1052:MET:CE	3:N:623:VAL:HG11	2.44	0.48
3:D:1314:LYS:O	3:D:1316:GLY:N	2.46	0.48
3:D:769:LEU:O	3:D:778:LEU:N	2.41	0.48
5:F:418:LEU:O	5:F:419:ARG:C	2.52	0.48
5:F:416:ARG:CZ	5:F:419:ARG:HG2	2.44	0.48
1:K:26:GLU:CB	1:K:27:PRO:HA	2.44	0.48
2:C:950:LEU:CB	2:C:952:LEU:HD23	2.41	0.48
3:D:80:VAL:HG22	3:D:81:THR:N	2.28	0.48
3:D:845:ASN:O	3:D:848:GLU:HB2	2.14	0.48
1:A:189:ARG:HG2	1:A:190:THR:H	1.77	0.48
2:C:196:LEU:HD23	2:C:196:LEU:C	2.34	0.48
5:P:340:SER:O	5:P:342:VAL:N	2.47	0.48
1:L:55:SER:HB2	1:L:158:ILE:HB	1.96	0.48
3:D:46:ASP:OD2	3:D:48:ARG:N	2.46	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:957:LYS:HB2	2:M:962:GLN:HE21	1.77	0.48
1:B:82:LEU:C	1:B:84:GLU:H	2.16	0.48
3:N:178:LEU:HA	3:N:199:LEU:HD13	1.96	0.48
2:M:1054:THR:HG22	2:M:1059:ASP:OD2	2.13	0.48
2:M:1067:TYR:CE1	3:N:655:PRO:HG3	2.48	0.48
2:C:292:ARG:HD2	2:C:299:LYS:CE	2.43	0.48
2:C:537:LYS:CA	2:C:545:ASN:HD21	2.06	0.48
2:C:906:PHE:CE1	3:D:1067:VAL:HA	2.48	0.48
3:N:1166:LEU:HA	3:N:1170:ASP:OD2	2.14	0.48
2:M:873:PRO:O	2:M:876:VAL:HG23	2.14	0.48
3:N:131:LYS:HG3	3:N:456:MET:HG3	1.96	0.48
3:D:124:GLU:C	3:D:126:VAL:N	2.67	0.48
3:D:656:PHE:CE1	3:D:751:LEU:HD23	2.49	0.48
3:N:385:VAL:CG1	5:P:96:LEU:HB3	2.44	0.48
3:N:645:PRO:CG	3:N:724:GLN:O	2.62	0.48
3:N:1066:THR:CG2	3:N:1069:GLU:HG3	2.44	0.48
3:D:1233:GLY:O	3:D:1235:GLN:N	2.47	0.48
2:C:918:LEU:CD2	2:C:968:LEU:O	2.62	0.48
3:D:10:ILE:HD11	3:D:1434:TRP:NE1	2.28	0.48
3:N:29:PRO:CG	3:N:549:ASN:ND2	2.72	0.48
2:M:411:SER:HA	2:M:452:ILE:HG22	1.96	0.48
5:F:82:ARG:HG2	5:F:86:HIS:NE2	2.29	0.48
3:D:1118:ILE:CG2	3:D:1188:VAL:HG13	2.43	0.48
3:D:754:PHE:HD1	4:E:24:ALA:HB1	1.78	0.48
1:L:209:GLU:O	1:L:212:ASN:HB2	2.14	0.48
2:M:723:THR:HG23	2:M:725:ASP:HB2	1.96	0.48
2:C:154:ARG:O	2:C:156:GLY:N	2.46	0.48
2:C:713:ARG:CB	2:C:713:ARG:HH11	2.27	0.48
2:C:227:PHE:C	2:C:229:MET:H	2.17	0.48
3:N:14:SER:O	3:N:15:PRO:C	2.51	0.48
2:M:517:ARG:O	2:M:518:LYS:C	2.49	0.48
1:K:156:HIS:HD2	1:K:157:GLY:N	2.11	0.48
3:N:974:ILE:HG22	3:N:974:ILE:O	2.13	0.48
1:K:69:PRO:O	1:K:71:VAL:HG23	2.13	0.48
3:D:882:PHE:HA	3:D:885:ILE:HD12	1.95	0.48
3:N:819:GLY:O	3:N:822:ALA:HB3	2.14	0.48
3:D:207:PHE:HB3	3:D:395:VAL:HG21	1.96	0.48
2:C:670:GLN:HB2	2:C:700:TYR:CZ	2.48	0.48
2:M:1058:ASP:OD1	2:M:1084:SER:HB2	2.13	0.48
3:D:1260:ILE:C	3:D:1262:LEU:N	2.67	0.48
2:M:139:GLN:HE21	2:M:414:GLY:HA3	1.75	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:139:GLN:NE2	2:M:415:PRO:CD	2.68	0.48
3:D:119:SER:C	3:D:121:THR:H	2.17	0.48
2:M:86:LYS:HB3	2:M:88:LEU:HG	1.95	0.48
3:N:179:VAL:HG21	3:N:217:LYS:HZ3	1.78	0.48
3:D:996:TRP:O	3:D:998:GLU:N	2.47	0.48
2:M:348:LEU:N	2:M:348:LEU:HD12	2.28	0.48
5:P:88:ILE:HG21	5:P:193:ARG:HD2	1.96	0.48
2:M:91:GLN:OE1	2:M:117:HIS:HB3	2.13	0.48
5:F:137:GLY:HA2	5:F:140:ARG:HH22	1.77	0.48
2:M:1052:MET:HE3	3:N:623:VAL:CG2	2.35	0.48
2:M:1007:ALA:CB	3:N:648:MET:HG2	2.42	0.48
3:N:701:LEU:O	3:N:747:VAL:HA	2.13	0.48
3:N:1072:ILE:HG22	3:N:1073:SER:N	2.28	0.48
2:C:1005:MET:O	2:C:1005:MET:HG2	2.14	0.48
2:C:398:THR:HA	2:C:633:GLN:HG3	1.95	0.48
2:M:340:MET:C	2:M:340:MET:SD	2.93	0.48
3:N:989:TYR:CZ	3:N:993:LEU:HD11	2.49	0.48
3:D:813:LEU:HD12	3:D:814:ALA:N	2.29	0.48
3:D:807:ALA:HB2	3:D:833:GLU:HB2	1.94	0.48
3:D:808:THR:CB	3:D:809:PRO:CD	2.88	0.48
2:C:780:GLU:C	2:C:782:ALA:H	2.17	0.48
1:L:59:GLU:CG	1:L:60:ASP:H	2.18	0.48
3:D:1229:ILE:HD11	3:D:1367:HIS:CB	2.40	0.48
2:C:102:HIS:C	2:C:104:ASP:N	2.66	0.48
3:D:1004:THR:O	3:D:1007:VAL:HG22	2.14	0.48
5:F:317:LEU:HD23	5:F:317:LEU:O	2.14	0.48
5:P:307:THR:O	5:P:310:ILE:N	2.46	0.48
4:O:40:LEU:CD2	4:O:67:GLU:HG2	2.36	0.48
2:M:390:GLN:OE1	2:M:414:GLY:O	2.32	0.48
2:M:660:ALA:HB1	2:M:667:ALA:O	2.14	0.48
3:N:127:LEU:HD13	3:N:457:GLY:H	1.79	0.48
3:D:568:ARG:O	3:D:569:ASN:C	2.52	0.48
3:D:1197:ARG:HB2	3:D:1396:GLU:OE2	2.14	0.48
2:M:433:THR:CG2	2:M:488:ALA:HB1	2.44	0.48
2:M:352:ALA:CA	2:M:355:VAL:HG12	2.31	0.48
5:F:291:ILE:HG23	5:F:292:ALA:N	2.29	0.48
2:M:497:ALA:HA	2:M:515:ALA:HA	1.95	0.48
2:M:516:ARG:NH2	3:N:1068:LEU:CB	2.77	0.48
2:C:1021:LEU:CD2	5:F:332:PHE:HA	2.43	0.48
2:C:577:PRO:HG3	2:C:993:PHE:CZ	2.48	0.48
3:N:585:GLY:C	3:N:587:ARG:H	2.17	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:172:ILE:HG22	2:C:173:ASP:N	2.29	0.48
3:D:154:THR:CG2	3:D:155:ASP:N	2.77	0.48
3:D:687:VAL:O	3:D:690:ALA:HB3	2.14	0.48
5:P:143:HIS:O	5:P:147:LEU:HA	2.13	0.48
5:F:158:GLU:CA	5:F:161:GLN:NE2	2.72	0.47
3:N:396:VAL:HG22	3:N:447:VAL:HG12	1.96	0.47
3:N:1262:LEU:CD2	3:N:1351:GLU:HB3	2.40	0.47
1:B:32:PHE:O	1:B:33:GLY:C	2.50	0.47
5:P:105:LYS:HB3	5:P:105:LYS:NZ	2.29	0.47
3:D:864:VAL:CG1	3:D:865:THR:N	2.77	0.47
3:D:224:ARG:H	3:D:365:ASP:HB2	1.79	0.47
3:D:679:ARG:NH1	3:D:681:ARG:HD2	2.29	0.47
3:D:592:THR:O	3:D:593:ASN:C	2.51	0.47
3:N:1336:LEU:HB2	3:N:1344:VAL:HG21	1.96	0.47
2:M:895:TYR:HA	2:M:991:GLN:NE2	2.29	0.47
2:C:835:VAL:CG2	2:C:836:GLY:N	2.76	0.47
2:M:403:SER:O	2:M:406:HIS:N	2.47	0.47
1:K:22:GLU:O	1:K:23:PHE:CG	2.67	0.47
3:D:499:VAL:HG12	3:D:503:LEU:HD12	1.96	0.47
2:C:342:ASP:O	2:C:345:ARG:HG2	2.14	0.47
3:D:676:MET:HE1	3:D:684:LYS:HG3	1.95	0.47
2:M:724:ARG:O	2:M:724:ARG:CG	2.62	0.47
2:C:255:ALA:O	2:C:298:PHE:CE2	2.67	0.47
2:C:168:ARG:O	2:C:170:PRO:HD3	2.14	0.47
2:M:396:ASP:OD1	2:M:402:SER:HB2	2.14	0.47
2:M:1114:GLY:C	2:M:1116:ALA:H	2.16	0.47
3:N:691:LEU:C	3:N:693:GLU:H	2.18	0.47
2:C:415:PRO:HB2	2:C:418:LEU:HD23	1.96	0.47
2:C:458:TYR:HE1	2:C:537:LYS:HB2	1.80	0.47
3:D:385:VAL:CG2	5:F:97:GLU:HG2	2.44	0.47
3:D:385:VAL:HG22	3:D:385:VAL:O	2.13	0.47
2:M:188:LYS:HD3	2:M:189:ARG:H	1.77	0.47
3:D:99:ALA:HA	3:D:575:GLN:HE22	1.80	0.47
3:D:1197:ARG:HD3	3:D:1396:GLU:HB2	1.95	0.47
2:C:449:ILE:O	2:C:451:LEU:N	2.45	0.47
2:M:408:ARG:O	2:M:408:ARG:HG3	2.14	0.47
2:C:115:LEU:N	2:C:115:LEU:HD23	2.17	0.47
3:N:739:ASP:OD2	3:N:741:ASP:OD2	2.31	0.47
3:D:646:LYS:CG	3:D:647:ARG:N	2.78	0.47
2:M:555:ALA:O	2:M:556:ASN:C	2.53	0.47
2:M:925:TYR:C	2:M:925:TYR:CD1	2.87	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:P:405:LEU:C	5:P:405:LEU:HD23	2.34	0.47
3:D:963:TYR:HD1	3:D:963:TYR:H	1.62	0.47
3:N:502:PHE:HZ	3:N:1452:ILE:HD11	1.79	0.47
2:M:754:ILE:HD13	2:M:791:ARG:HD2	1.95	0.47
5:P:260:ILE:CD1	5:P:264:MET:HB3	2.43	0.47
3:N:1269:LYS:HA	3:N:1269:LYS:HE2	1.96	0.47
2:C:268:ASP:H	2:C:272:ALA:HB2	1.78	0.47
2:C:691:SER:C	2:C:693:GLU:N	2.67	0.47
3:N:172:PRO:HA	3:N:173:PRO:HD3	1.68	0.47
3:N:875:THR:HG22	3:N:879:ARG:CG	2.40	0.47
3:N:935:LYS:HG3	3:N:939:PHE:HE1	1.78	0.47
2:C:676:ILE:O	2:C:676:ILE:HG23	2.15	0.47
2:C:650:ARG:N	2:C:650:ARG:CD	2.75	0.47
3:D:577:ALA:O	3:D:580:ALA:HB3	2.14	0.47
2:M:170:PRO:CB	2:M:172:ILE:HD11	2.44	0.47
3:N:1059:SER:HB2	3:N:1065:LEU:HD12	1.95	0.47
2:M:261:ILE:HG22	2:M:262:ALA:N	2.28	0.47
5:P:389:PHE:HD2	5:P:397:ILE:CD1	2.26	0.47
2:M:474:VAL:HG23	2:M:479:VAL:HA	1.95	0.47
1:K:176:ARG:HG3	1:K:200:TRP:CE3	2.48	0.47
1:A:182:GLU:O	1:A:183:ASP:O	2.32	0.47
3:D:1086:LEU:CA	6:D:1525:STD:H32	2.36	0.47
3:N:18:ILE:HD12	3:N:518:PRO:CG	2.45	0.47
1:K:97:VAL:CG1	1:K:98:THR:N	2.76	0.47
2:C:1050:GLN:HE21	3:D:1470:ARG:C	2.17	0.47
2:C:403:SER:O	2:C:407:LYS:HE2	2.14	0.47
3:D:159:ARG:CB	3:D:159:ARG:HH11	2.26	0.47
1:L:124:ASN:N	1:L:125:PRO:HD3	2.29	0.47
2:M:226:VAL:HG13	2:M:227:PHE:HD1	1.79	0.47
3:D:1145:TYR:HD2	3:D:1146:GLY:H	1.58	0.47
2:M:722:ILE:O	2:M:722:ILE:HG12	2.14	0.47
1:K:189:ARG:HH12	1:L:155:LYS:HZ3	1.61	0.47
2:C:16:PRO:O	2:C:18:LEU:N	2.47	0.47
5:F:302:LYS:HG3	5:F:303:ARG:N	2.30	0.47
3:N:920:LEU:HD12	3:N:920:LEU:N	2.30	0.47
3:N:920:LEU:H	3:N:920:LEU:CD1	2.28	0.47
3:D:697:GLY:CA	4:E:59:ASN:OD1	2.62	0.47
3:N:1231:GLU:C	3:N:1231:GLU:OE1	2.53	0.47
3:N:473:LEU:HD12	3:N:476:GLU:OE2	2.13	0.47
3:N:82:LYS:O	3:N:84:ILE:N	2.47	0.47
1:A:195:LEU:HD12	1:A:196:THR:H	1.80	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:175:VAL:O	3:D:179:VAL:HG21	2.14	0.47
3:N:902:LEU:HD12	3:N:903:ASP:N	2.29	0.47
3:N:547:LEU:HD11	3:N:578:VAL:HG22	1.96	0.47
3:N:552:ASN:O	3:N:553:ARG:C	2.52	0.47
5:F:84:TYR:HB3	5:F:88:ILE:HD11	1.96	0.47
3:N:455:ARG:HH22	5:P:140:ARG:CD	2.27	0.47
2:C:480:THR:CG2	2:C:482:GLU:HB3	2.43	0.47
2:M:1097:LEU:H	2:M:1097:LEU:CD1	2.23	0.47
2:C:95:TYR:HB2	2:C:113:VAL:H	1.79	0.47
2:M:736:ASP:O	2:M:738:ASP:N	2.44	0.47
3:N:757:ALA:O	3:N:761:ILE:N	2.46	0.47
3:N:477:LEU:HD11	3:N:495:ARG:HG2	1.97	0.47
3:D:704:ARG:NH1	3:D:738:ALA:HA	2.30	0.47
2:M:610:ARG:HD2	2:M:622:GLU:HG3	1.97	0.47
2:C:1044:GLY:HA3	4:E:17:TYR:CE1	2.49	0.47
2:M:17:PRO:O	2:M:20:GLU:HB3	2.14	0.47
1:L:176:ARG:NH2	3:N:884:ARG:NE	2.62	0.47
3:D:1493:LYS:O	3:D:1497:GLU:HG2	2.14	0.47
3:D:169:TYR:CG	3:D:169:TYR:O	2.66	0.47
5:P:372:ARG:NE	5:P:388:ALA:HA	2.30	0.47
3:D:1412:LYS:C	3:D:1414:PRO:HD3	2.34	0.47
3:N:105:VAL:HG22	3:N:112:ILE:CD1	2.44	0.47
3:N:868:TYR:HE1	3:N:869:MET:CE	2.27	0.47
3:D:470:LEU:HD12	3:D:508:ARG:NH2	2.30	0.47
5:F:323:ASP:O	5:F:325:LYS:HG3	2.14	0.47
2:M:565:GLN:C	2:M:567:GLN:N	2.64	0.47
3:D:141:ILE:HG22	3:D:142:LEU:N	2.29	0.47
2:M:1019:GLN:HE22	3:N:621:LYS:HA	1.79	0.47
3:N:38:LYS:HE2	3:N:39:PRO:HD2	1.95	0.47
3:N:52:PRO:HG3	3:N:81:THR:H	1.78	0.47
5:F:164:LYS:CA	5:F:171:LYS:NZ	2.78	0.47
3:N:212:ARG:HB3	3:N:394:LEU:HD13	1.95	0.47
5:P:214:GLN:HA	5:P:217:ASN:ND2	2.21	0.47
3:N:367:ILE:HG12	3:N:368:VAL:N	2.28	0.47
3:N:387:LEU:N	3:N:387:LEU:HD22	2.29	0.47
1:K:56:VAL:HG12	1:K:58:ILE:HG12	1.97	0.47
2:M:1036:GLU:OE1	2:M:1036:GLU:N	2.38	0.47
3:N:709:HIS:CD2	3:N:711:LEU:HB2	2.49	0.47
5:P:171:LYS:HE3	5:P:175:HIS:NE2	2.29	0.47
3:N:780:LYS:CD	3:N:912:LYS:HG3	2.45	0.47
2:M:536:PRO:O	2:M:538:GLN:N	2.47	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:205:VAL:HG23	1:K:206:THR:H	1.76	0.47
3:N:642:CYS:HB3	3:N:716:PHE:CG	2.48	0.47
3:N:750:PRO:HG2	3:N:756:GLN:OE1	2.15	0.47
1:K:175:ARG:HE	1:K:202:ASP:CA	2.21	0.47
3:N:481:MET:CE	3:N:1389:LEU:HD21	2.45	0.47
3:N:74:GLU:O	3:N:75:ARG:NH2	2.48	0.47
3:N:28:LYS:HG2	3:N:41:ARG:CD	2.43	0.47
1:L:223:THR:C	1:L:225:PHE:N	2.67	0.47
3:D:54:LYS:NZ	3:D:55:ASP:OD1	2.29	0.47
3:D:78:VAL:HG12	3:D:78:VAL:O	2.15	0.47
3:D:847:ASP:O	3:D:848:GLU:C	2.53	0.47
2:C:872:ASN:OD1	2:C:873:PRO:CD	2.63	0.47
3:N:416:ALA:H	3:N:417:PRO:HD2	1.79	0.47
2:C:196:LEU:HA	2:C:199:VAL:CG2	2.43	0.47
3:N:25:GLU:HB2	3:N:92:HIS:CE1	2.49	0.47
1:K:1:MET:SD	1:K:5:LYS:HB3	2.54	0.47
5:P:287:THR:HG23	5:P:290:GLU:HB2	1.96	0.47
3:D:106:LYS:O	3:D:586:ARG:NH2	2.47	0.47
3:D:1251:ASP:OD1	3:D:1270:ALA:HB3	2.13	0.47
2:C:692:GLU:HG2	2:C:692:GLU:O	2.14	0.47
2:M:744:ARG:HG3	2:M:744:ARG:O	2.14	0.47
2:C:136:ILE:HD13	2:C:392:SER:OG	2.15	0.47
2:C:27:ARG:O	2:C:29:ALA:N	2.47	0.47
2:C:431:HIS:C	2:C:433:THR:N	2.66	0.47
3:D:385:VAL:HG22	5:F:97:GLU:HG2	1.95	0.47
3:D:1038:LEU:O	3:D:1060:SER:HB2	2.14	0.47
2:M:80:GLN:O	2:M:83:CYS:N	2.47	0.47
2:C:1070:ILE:CD1	3:D:751:LEU:HD22	2.45	0.47
3:N:221:ALA:O	3:N:367:ILE:HG23	2.15	0.47
1:K:85:LEU:HD11	1:K:87:VAL:CG1	2.45	0.47
2:M:1047:HIS:HE1	2:M:1078:GLU:OE2	1.98	0.47
2:C:1054:THR:HG22	2:C:1059:ASP:CB	2.29	0.47
2:M:365:ASP:O	2:M:367:LEU:HG	2.15	0.47
2:M:889:HIS:CD2	2:M:970:GLY:HA3	2.49	0.47
3:D:795:VAL:CG1	3:D:796:ARG:N	2.77	0.47
3:N:701:LEU:O	3:N:702:LEU:CD1	2.62	0.47
2:M:775:ARG:HH11	2:M:782:ALA:CB	2.28	0.47
2:C:1033:GLY:O	2:C:1037:VAL:HG23	2.14	0.47
5:F:280:GLN:OE1	5:F:281:GLU:CB	2.56	0.47
5:F:413:SER:O	5:F:416:ARG:HD3	2.15	0.47
3:N:1440:PHE:HB2	3:N:1442:ASN:HD21	1.78	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1102:THR:O	3:D:1103:HIS:C	2.52	0.47
2:C:577:PRO:HG3	2:C:993:PHE:CE2	2.50	0.47
2:C:148:PHE:CB	2:C:313:LEU:HD22	2.44	0.47
5:F:372:ARG:HA	5:F:372:ARG:HD2	1.64	0.47
3:D:1155:VAL:HG12	3:D:1156:LEU:N	2.29	0.47
5:P:282:LEU:C	5:P:284:ARG:H	2.17	0.47
3:N:1280:VAL:O	3:N:1294:VAL:HA	2.14	0.47
3:D:474:GLU:O	3:D:478:LEU:HG	2.14	0.47
2:M:559:LEU:HD11	2:M:563:ASN:HD21	1.78	0.47
2:C:122:THR:HG22	2:C:123:GLU:N	2.30	0.47
1:L:6:LEU:HG	1:L:6:LEU:O	2.14	0.47
2:C:853:LEU:HB3	2:C:858:MET:HE3	1.95	0.47
2:M:1060:ILE:O	2:M:1063:ARG:HG2	2.14	0.47
3:D:400:VAL:O	3:D:442:ASN:HB3	2.14	0.47
5:F:153:PRO:O	5:F:156:VAL:CG2	2.62	0.47
2:C:468:ARG:HG2	2:C:487:THR:HA	1.96	0.47
3:D:87:ARG:HB3	3:D:523:ASP:HB3	1.94	0.47
4:O:45:ARG:O	4:O:47:LYS:HE3	2.15	0.47
4:O:45:ARG:HB3	4:O:46:PRO:CD	2.44	0.47
3:N:396:VAL:HG12	3:N:397:LYS:N	2.29	0.47
3:N:938:GLY:O	3:N:942:SER:HB2	2.15	0.47
1:A:67:THR:HG21	2:C:609:ASN:OD1	2.15	0.47
3:N:118:LEU:HA	3:N:123:LEU:HD13	1.97	0.47
3:D:127:LEU:HD12	3:D:128:TYR:N	2.29	0.47
2:C:885:ILE:HG22	2:C:885:ILE:O	2.14	0.47
2:C:516:ARG:HH21	3:D:1068:LEU:HB3	1.75	0.47
2:M:1036:GLU:CD	2:M:1036:GLU:N	2.68	0.47
1:B:23:PHE:HE2	1:B:199:ILE:HD12	1.79	0.47
1:B:44:LEU:HD23	1:B:210:ALA:HB1	1.97	0.47
2:C:1012:PRO:O	2:C:1013:TYR:CG	2.68	0.47
3:N:168:THR:HG22	3:N:170:PRO:CD	2.44	0.47
2:M:577:PRO:HG3	2:M:993:PHE:CG	2.50	0.47
3:D:840:LYS:HG2	3:D:841:TYR:CD2	2.50	0.47
3:N:477:LEU:HB2	3:N:496:LEU:HD13	1.97	0.47
2:M:537:LYS:HZ2	2:M:537:LYS:HB2	1.79	0.47
2:C:1095:LEU:HB3	3:D:101:HIS:CE1	2.50	0.47
3:D:601:ARG:HH22	3:D:611:GLN:HB2	1.77	0.47
2:C:1047:HIS:O	2:C:1050:GLN:N	2.47	0.47
2:M:925:TYR:HD2	2:M:967:PHE:CE1	2.33	0.47
3:N:613:ARG:HH11	3:N:613:ARG:HG3	1.80	0.47
3:D:374:GLU:N	3:D:374:GLU:CD	2.68	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:711:GLU:OE1	2:M:713:ARG:NH2	2.48	0.47
5:F:287:THR:HG22	5:F:290:GLU:OE2	2.15	0.47
5:F:234:LYS:HD3	5:F:235:PHE:N	2.29	0.47
5:P:291:ILE:HG21	5:P:304:VAL:HG11	1.96	0.47
2:C:352:ALA:O	2:C:356:ARG:HG3	2.15	0.47
3:D:475:LYS:HA	3:D:478:LEU:CD1	2.44	0.47
1:A:160:ASP:HB2	1:A:161:ARG:H	1.51	0.47
1:K:110:LYS:C	1:K:112:ARG:H	2.18	0.47
2:M:1064:ASN:HD21	5:P:344:ALA:HB1	1.79	0.47
1:L:25:LEU:HD23	1:L:28:LEU:HD11	1.97	0.47
3:N:1256:LEU:O	3:N:1259:VAL:N	2.46	0.47
2:C:233:GLU:O	2:C:233:GLU:CD	2.53	0.47
3:D:1331:ASP:OD2	3:D:1332:PRO:CD	2.62	0.47
3:N:1290:LEU:HD13	3:N:1309:ALA:O	2.14	0.47
2:C:1081:VAL:HG12	2:C:1082:PRO:HD2	1.97	0.47
3:D:431:VAL:O	3:D:431:VAL:HG22	2.14	0.47
3:D:918:ALA:HB1	3:D:922:LEU:HD12	1.97	0.47
3:N:424:GLY:CA	3:N:436:GLU:HA	2.44	0.47
2:M:854:PRO:HB3	2:M:856:GLU:OE2	2.13	0.47
3:D:1148:VAL:HG11	3:D:1203:LYS:HD2	1.96	0.47
2:C:852:ILE:HA	2:C:852:ILE:HD13	1.79	0.47
3:N:654:LYS:O	3:N:657:LEU:N	2.48	0.47
3:N:79:GLU:HG2	3:N:80:VAL:H	1.80	0.47
2:C:489:THR:C	2:C:491:GLU:H	2.18	0.47
3:N:789:LEU:O	3:N:793:THR:HG23	2.15	0.47
3:D:781:PRO:HB2	3:D:911:LEU:HD23	1.97	0.47
3:N:459:GLU:HG3	5:P:144:ILE:HD13	1.97	0.47
3:D:97:THR:CB	3:D:571:LYS:HD3	2.45	0.47
3:D:573:MET:HE1	5:F:211:ASP:HA	1.96	0.47
2:M:1048:THR:OG1	3:N:755:ALA:HA	2.14	0.47
5:P:136:LEU:HD13	5:P:141:VAL:HG11	1.96	0.47
1:K:39:PRO:HG3	1:L:39:PRO:HG2	1.97	0.47
5:F:359:SER:C	5:F:361:LEU:H	2.17	0.47
1:K:201:THR:CG2	1:K:202:ASP:N	2.77	0.47
3:D:730:PRO:HA	3:D:733:CYS:SG	2.55	0.47
3:N:835:SER:O	3:N:836:VAL:C	2.52	0.47
5:F:419:ARG:O	5:F:421:PHE:N	2.48	0.47
2:C:969:GLN:HE21	2:C:971:LYS:HE2	1.79	0.47
3:D:1462:LEU:HD22	3:D:1473:PRO:HD2	1.97	0.47
3:N:231:VAL:O	3:N:378:ILE:HG12	2.15	0.47
1:A:51:THR:HG22	1:A:146:ARG:HA	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:107:LYS:CE	1:L:109:VAL:HG22	2.45	0.47
3:D:1123:PHE:CD1	3:D:1134:LEU:HA	2.50	0.47
3:N:1280:VAL:HA	3:N:1317:ASP:O	2.15	0.47
1:B:62:LEU:HA	1:B:163:ASN:HB3	1.96	0.47
1:K:225:PHE:CZ	1:L:25:LEU:HD22	2.48	0.47
2:M:45:GLN:O	2:M:49:ARG:HG3	2.14	0.47
5:P:287:THR:HG22	5:P:290:GLU:HB2	1.97	0.47
2:M:880:MET:HG2	3:N:1038:LEU:HD11	1.96	0.47
2:C:1086:ARG:NH1	3:D:88:TYR:HE1	2.13	0.47
3:D:1211:MET:HB3	3:D:1213:ARG:NE	2.30	0.47
3:D:1114:THR:C	3:D:1116:ASN:H	2.17	0.47
5:P:289:GLU:CD	5:P:289:GLU:N	2.68	0.47
3:N:1479:ASP:HA	3:N:1482:ARG:HB2	1.96	0.47
2:C:1000:MET:HB2	2:C:1002:GLU:HG2	1.97	0.47
3:N:178:LEU:N	3:N:199:LEU:HD13	2.29	0.47
2:M:1054:THR:CG2	2:M:1079:PRO:HB3	2.43	0.47
2:C:491:GLU:C	2:C:493:ARG:N	2.68	0.47
4:O:43:GLU:O	4:O:45:ARG:HG2	2.15	0.47
3:N:1258:ARG:HG3	3:N:1262:LEU:HD13	1.96	0.47
3:N:764:LEU:HD23	3:N:766:ALA:HB3	1.96	0.47
2:C:610:ARG:HH11	2:C:610:ARG:HG3	1.80	0.47
3:N:127:LEU:HD12	3:N:127:LEU:C	2.35	0.47
3:N:1393:GLN:HB2	3:N:1398:TRP:CZ2	2.50	0.47
3:N:564:GLU:N	3:N:564:GLU:CD	2.68	0.47
3:D:1472:ILE:HG22	3:D:1474:ALA:N	2.24	0.47
3:N:12:LEU:HD11	3:N:104:PHE:CE1	2.44	0.47
2:M:444:PRO:HG2	2:M:452:ILE:HG13	1.96	0.47
3:D:80:VAL:CG2	3:D:81:THR:N	2.78	0.47
1:A:219:ARG:NH1	1:A:219:ARG:CG	2.77	0.47
3:D:1370:ILE:O	3:D:1373:ARG:HG2	2.15	0.47
1:K:111:ALA:HB2	1:K:127:LEU:HB3	1.96	0.47
2:M:723:THR:CG2	2:M:725:ASP:HB2	2.45	0.47
2:M:553:ASP:OD2	2:M:881:ASN:CA	2.63	0.47
1:A:162:ILE:HG13	1:A:163:ASN:ND2	2.30	0.47
5:F:93:LEU:HG	5:F:190:ALA:CB	2.45	0.47
2:M:64:LEU:HD13	2:M:359:MET:CG	2.45	0.47
2:C:677:MET:HE2	2:C:679:PHE:CD1	2.50	0.47
2:C:677:MET:HE2	2:C:679:PHE:HD1	1.78	0.47
2:C:433:THR:HG22	2:C:437:ARG:HD2	1.97	0.47
1:B:217:ILE:O	1:B:221:HIS:CD2	2.68	0.47
3:D:1459:LEU:HD11	3:D:1468:LEU:HD12	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:150:TYR:HE2	1:K:152:PRO:CG	2.13	0.47
1:A:72:LYS:O	2:C:608:GLY:HA2	2.14	0.47
3:D:991:GLN:O	3:D:994:GLN:HB3	2.15	0.47
2:C:473:ARG:O	2:C:480:THR:OG1	2.33	0.47
2:M:1043:TYR:CG	3:N:763:MET:HG3	2.50	0.47
2:C:1006:HIS:O	2:C:1007:ALA:HB2	2.15	0.47
3:N:1326:THR:HG22	3:N:1327:ARG:N	2.30	0.47
5:P:316:SER:C	5:P:318:GLU:N	2.67	0.47
3:N:601:ARG:HB3	5:P:318:GLU:OE1	2.15	0.47
3:N:1474:ALA:O	3:N:1476:THR:N	2.48	0.47
1:B:174:VAL:HA	1:B:200:TRP:O	2.15	0.47
1:A:144:VAL:CG1	1:A:145:ASP:H	2.28	0.47
3:N:877:PRO:O	3:N:880:ILE:N	2.48	0.47
5:P:274:THR:OG1	5:P:291:ILE:HD11	2.15	0.47
3:D:237:LYS:HB3	3:D:238:PRO:HD3	1.96	0.47
4:E:68:LEU:O	4:E:68:LEU:HD12	2.14	0.47
2:M:690:ILE:HD12	2:M:694:LEU:HD13	1.97	0.47
5:P:322:GLY:O	5:P:324:GLU:N	2.47	0.47
3:N:1418:LYS:O	3:N:1419:PRO:C	2.52	0.47
3:D:935:LYS:HG3	3:D:939:PHE:CE1	2.50	0.46
3:N:81:THR:O	3:N:82:LYS:O	2.34	0.46
3:D:400:VAL:CA	3:D:442:ASN:O	2.53	0.46
2:C:338:GLU:CA	2:C:341:THR:HG22	2.45	0.46
3:D:525:ARG:HG3	3:D:525:ARG:O	2.15	0.46
3:N:806:PHE:HE1	3:N:813:LEU:HD23	1.80	0.46
1:K:57:TYR:HB3	1:K:141:GLU:HB2	1.96	0.46
3:N:428:LYS:HE2	3:N:451:ASP:HB3	1.97	0.46
3:N:996:TRP:CE2	3:N:1056:PRO:HG2	2.50	0.46
3:D:638:LYS:O	3:D:639:LEU:C	2.54	0.46
3:N:18:ILE:HD12	3:N:518:PRO:HG3	1.97	0.46
3:N:1284:GLU:CG	3:N:1291:SER:HB2	2.45	0.46
2:C:1044:GLY:HA3	4:E:17:TYR:HE1	1.81	0.46
3:N:74:GLU:C	3:N:75:ARG:HE	2.17	0.46
3:D:553:ARG:HB3	3:D:553:ARG:HH11	1.80	0.46
3:D:55:ASP:HA	3:D:82:LYS:CG	2.43	0.46
3:D:36:THR:HG22	3:D:38:LYS:HG3	1.97	0.46
1:A:227:ASN:H	1:A:227:ASN:HD22	1.61	0.46
3:N:1466:VAL:O	3:N:1469:GLY:N	2.48	0.46
2:C:1056:LYS:HA	3:D:624:ASP:HB2	1.97	0.46
3:N:376:GLU:HB3	3:N:384:VAL:HA	1.96	0.46
5:P:83:GLN:O	5:P:87:GLU:OE1	2.33	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:927:GLY:HA2	2:M:930:LYS:HZ3	1.78	0.46
3:D:788:GLY:O	3:D:792:ILE:CG2	2.63	0.46
1:L:180:GLN:HB2	1:L:196:THR:HG23	1.97	0.46
2:C:801:VAL:HG11	2:C:828:ALA:HB3	1.96	0.46
2:M:728:HIS:C	2:M:729:LEU:HD22	2.35	0.46
1:B:88:ARG:HH11	1:B:88:ARG:HG2	1.79	0.46
1:L:172:SER:C	1:L:174:VAL:H	2.18	0.46
2:M:684:PHE:CG	2:M:685:GLU:N	2.81	0.46
3:N:525:ARG:N	3:N:526:PRO:CD	2.78	0.46
3:D:1262:LEU:HD21	3:D:1351:GLU:HG3	1.97	0.46
3:D:525:ARG:O	3:D:526:PRO:O	2.34	0.46
3:N:1147:ARG:O	3:N:1166:LEU:CD2	2.64	0.46
3:N:187:LYS:HE2	3:N:213:VAL:N	2.20	0.46
3:N:1258:ARG:HA	3:N:1261:GLU:HB3	1.97	0.46
2:C:606:VAL:O	2:C:606:VAL:HG23	2.15	0.46
1:A:67:THR:CG2	2:C:609:ASN:OD1	2.63	0.46
2:C:874:LEU:HD21	3:D:787:LEU:HD22	1.96	0.46
2:C:31:GLN:HB3	2:C:34:VAL:CG2	2.45	0.46
3:D:1377:LYS:O	3:D:1377:LYS:HG3	2.14	0.46
3:D:1130:ARG:HA	3:D:1130:ARG:HD2	1.72	0.46
1:K:55:SER:HB3	1:K:143:ARG:HB2	1.97	0.46
3:N:141:ILE:CG2	3:N:142:LEU:N	2.74	0.46
1:K:43:ILE:HG21	1:K:217:ILE:HB	1.96	0.46
1:K:213:GLN:O	1:K:217:ILE:HG13	2.15	0.46
2:M:479:VAL:HG21	2:M:503:LEU:HD11	1.96	0.46
5:F:304:VAL:O	5:F:308:LEU:HG	2.15	0.46
2:C:428:ARG:NH2	6:D:1525:STD:H292	2.30	0.46
2:M:285:LEU:HD11	2:M:302:VAL:CG2	2.39	0.46
2:C:191:PHE:HE2	2:C:238:LEU:HD11	1.80	0.46
3:D:1207:TYR:HB3	3:D:1208:ASP:H	1.57	0.46
3:D:1155:VAL:HG11	3:D:1177:ALA:HB2	1.96	0.46
1:B:106:PRO:HG3	1:B:134:GLU:CD	2.35	0.46
3:N:416:ALA:N	3:N:417:PRO:CD	2.73	0.46
2:C:736:ASP:C	2:C:738:ASP:N	2.68	0.46
1:A:218:LEU:CD2	1:B:222:LEU:HD11	2.46	0.46
2:M:48:PHE:O	2:M:49:ARG:C	2.54	0.46
3:N:870:GLY:O	3:N:871:LYS:HG3	2.15	0.46
2:C:579:VAL:HG13	2:C:842:ARG:HH22	1.79	0.46
3:D:1274:ILE:HB	3:D:1275:SER:H	1.53	0.46
3:D:1344:VAL:HG11	3:D:1421:LEU:HD13	1.96	0.46
3:N:194:GLY:HA2	3:N:206:ARG:HA	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:95:GLN:HE21	1:L:95:GLN:HB2	1.46	0.46
3:N:691:LEU:O	3:N:693:GLU:N	2.49	0.46
2:C:278:GLU:O	2:C:279:GLU:C	2.53	0.46
3:D:25:GLU:OE1	3:D:25:GLU:O	2.32	0.46
2:M:432:ARG:NH2	3:N:1047:LYS:HB3	2.29	0.46
3:N:1258:ARG:O	3:N:1262:LEU:HD13	2.15	0.46
3:D:130:SER:HG	3:D:132:TYR:HE1	1.55	0.46
2:M:86:LYS:C	2:M:88:LEU:H	2.18	0.46
3:D:1197:ARG:HD2	3:D:1197:ARG:HA	1.54	0.46
3:D:661:MET:SD	3:D:677:LEU:HD21	2.55	0.46
2:M:170:PRO:HD2	2:M:263:ASP:HB3	1.98	0.46
5:F:378:GLY:O	5:F:384:GLU:HG2	2.15	0.46
2:M:736:ASP:C	2:M:738:ASP:H	2.18	0.46
3:N:739:ASP:OD1	3:N:743:ASP:OD2	2.32	0.46
3:N:824:ASN:HB3	3:N:825:ALA:H	1.44	0.46
3:N:1274:ILE:CG1	3:N:1334:GLN:HE21	2.27	0.46
2:C:395:LYS:HE2	2:C:403:SER:HB2	1.97	0.46
5:P:395:GLU:O	5:P:398:ARG:HD2	2.15	0.46
2:C:589:ARG:CA	2:C:596:TYR:OH	2.64	0.46
3:D:535:PHE:CD1	5:F:258:ILE:HD11	2.50	0.46
2:M:455:LEU:O	2:M:456:ALA:O	2.33	0.46
2:M:674:VAL:HG11	2:M:992:MET:HE3	1.97	0.46
2:M:755:LEU:C	2:M:756:VAL:HG23	2.36	0.46
3:N:536:ALA:CB	5:P:315:VAL:HG12	2.42	0.46
3:D:1153:VAL:HG12	3:D:1155:VAL:CG2	2.44	0.46
2:C:462:ASP:CG	2:C:463:GLU:N	2.67	0.46
3:N:1486:VAL:HG12	4:O:73:LEU:HD22	1.97	0.46
1:L:197:LEU:CD2	1:L:199:ILE:HG13	2.43	0.46
2:C:75:GLU:H	2:C:93:PRO:HG2	1.80	0.46
5:F:116:LEU:HD12	5:F:127:ILE:HG21	1.96	0.46
2:C:226:VAL:HG13	2:C:227:PHE:H	1.80	0.46
2:M:122:THR:O	2:M:123:GLU:C	2.53	0.46
2:C:1119:ARG:NH2	3:D:48:ARG:HG2	2.31	0.46
3:D:1270:ALA:O	3:D:1271:LYS:C	2.54	0.46
2:C:89:THR:HG22	2:C:90:TYR:N	2.30	0.46
3:N:32:ILE:CG2	3:N:37:LEU:HA	2.46	0.46
3:N:1146:GLY:N	3:N:1166:LEU:O	2.48	0.46
3:D:173:PRO:HD3	3:D:178:LEU:HD12	1.97	0.46
3:N:939:PHE:HA	3:N:942:SER:CB	2.45	0.46
2:M:571:LEU:H	2:M:571:LEU:HD12	1.81	0.46
3:N:137:PRO:CG	3:N:453:ASP:HB3	2.45	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:111:ALA:HB3	1:B:124:ASN:O	2.15	0.46
3:D:976:GLN:C	3:D:978:TYR:H	2.17	0.46
1:A:86:VAL:HG13	1:A:124:ASN:HB2	1.98	0.46
2:C:1063:ARG:O	2:C:1066:ALA:HB3	2.16	0.46
2:M:486:MET:HE3	2:M:491:GLU:HA	1.97	0.46
3:N:1434:TRP:HZ3	3:N:1457:ASP:N	2.12	0.46
3:D:1152:GLU:OE1	3:D:1159:ARG:NH2	2.47	0.46
5:F:137:GLY:CA	5:F:140:ARG:NH2	2.78	0.46
2:C:508:ILE:CG2	2:C:513:VAL:HG21	2.43	0.46
3:N:1113:GLY:O	3:N:1114:THR:C	2.53	0.46
3:N:500:ARG:O	3:N:504:ASP:N	2.38	0.46
3:D:1092:GLY:O	3:D:1095:THR:N	2.48	0.46
2:C:1095:LEU:HD21	3:D:603:LEU:HB2	1.98	0.46
3:D:601:ARG:HH22	3:D:611:GLN:CD	2.19	0.46
3:N:1284:GLU:HB2	3:N:1291:SER:HB2	1.96	0.46
5:F:203:THR:O	5:F:205:ARG:N	2.49	0.46
1:B:205:VAL:HG23	1:B:205:VAL:O	2.15	0.46
3:D:41:ARG:HG3	3:D:42:ASP:N	2.30	0.46
3:D:36:THR:C	3:D:38:LYS:H	2.19	0.46
2:C:517:ARG:O	2:C:518:LYS:C	2.54	0.46
2:M:212:GLY:HA3	2:M:218:VAL:CG2	2.46	0.46
2:M:445:GLU:OE1	2:M:560:MET:HE3	2.16	0.46
3:N:1238:MET:HG3	3:N:1239:ARG:N	2.30	0.46
1:A:158:ILE:HG22	1:A:159:LYS:N	2.31	0.46
3:N:1119:SER:HA	3:N:1186:VAL:O	2.16	0.46
1:L:62:LEU:H	1:L:62:LEU:HD12	1.80	0.46
4:E:79:LEU:HG	4:E:80:VAL:HG23	1.98	0.46
2:M:124:ASP:HB2	2:M:407:LYS:NZ	2.30	0.46
3:D:968:ASP:O	3:D:971:LEU:HB3	2.16	0.46
3:N:1097:LYS:HA	3:N:1100:ASP:OD2	2.15	0.46
2:M:1066:ALA:O	2:M:1067:TYR:C	2.52	0.46
2:C:328:LEU:HD23	2:C:437:ARG:HD3	1.98	0.46
2:C:433:THR:O	2:C:437:ARG:HD2	2.16	0.46
2:C:470:PRO:O	2:C:534:VAL:HG23	2.15	0.46
2:M:874:LEU:C	2:M:876:VAL:H	2.18	0.46
3:N:790:TYR:O	3:N:791:TYR:C	2.54	0.46
3:N:939:PHE:HA	3:N:942:SER:HB2	1.95	0.46
2:M:572:ILE:CD1	2:M:701:THR:HB	2.46	0.46
3:D:423:ASP:O	3:D:424:GLY:C	2.54	0.46
3:D:567:ILE:O	3:D:571:LYS:NZ	2.45	0.46
3:D:950:GLY:O	3:D:953:ASP:HB2	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:217:LYS:HB2	3:N:218:LYS:H	1.52	0.46
1:B:197:LEU:H	1:B:197:LEU:HD23	1.80	0.46
3:N:140:ALA:O	3:N:141:ILE:O	2.33	0.46
1:K:38:ASN:OD1	2:M:979:THR:O	2.34	0.46
3:D:755:ALA:O	3:D:756:GLN:C	2.54	0.46
3:D:835:SER:O	3:D:838:ARG:N	2.48	0.46
3:D:1042:ARG:HG3	3:D:1042:ARG:O	2.16	0.46
3:N:1046:GLN:HE21	3:N:1046:GLN:HB2	1.60	0.46
3:N:1344:VAL:O	3:N:1347:TYR:HB3	2.16	0.46
4:O:63:TRP:O	4:O:65:MET:N	2.48	0.46
3:D:892:ASP:HB3	3:D:895:VAL:HG23	1.96	0.46
2:C:572:ILE:CD1	2:C:701:THR:HB	2.46	0.46
2:M:706:GLU:CG	2:M:707:ARG:H	2.28	0.46
2:C:799:ILE:O	2:C:801:VAL:HG13	2.16	0.46
5:F:300:ASP:OD2	5:F:302:LYS:HG2	2.16	0.46
2:M:499:ALA:C	2:M:501:THR:H	2.18	0.46
3:N:240:GLU:C	3:N:242:LEU:H	2.19	0.46
3:D:676:MET:CE	3:D:684:LYS:H	2.28	0.46
2:M:71:TYR:N	2:M:71:TYR:CD2	2.82	0.46
2:C:718:GLY:HA3	2:C:761:PHE:CE1	2.50	0.46
2:C:679:PHE:CA	3:D:943:THR:HG22	2.44	0.46
3:D:141:ILE:N	3:D:141:ILE:CD1	2.67	0.46
3:N:56:TYR:HA	3:N:80:VAL:CG2	2.45	0.46
3:N:660:LYS:HD2	3:N:663:GLU:OE2	2.15	0.46
3:D:1264:GLU:O	3:D:1266:ARG:CD	2.63	0.46
1:A:14:ARG:HH12	1:A:24:VAL:HG21	1.80	0.46
3:D:216:VAL:HG12	3:D:217:LYS:N	2.30	0.46
3:D:1380:GLU:HG2	3:D:1381:VAL:N	2.30	0.46
2:M:174:LEU:HA	2:M:183:SER:O	2.15	0.46
3:N:153:LEU:HD12	3:N:158:TYR:HB2	1.97	0.46
1:K:18:ARG:HH22	1:K:88:ARG:NH2	2.14	0.46
2:M:578:VAL:HG12	2:M:900:ARG:NH1	2.31	0.46
3:N:493:ARG:HB2	3:N:493:ARG:NH1	2.31	0.46
3:D:714:GLN:NE2	3:D:735:ALA:HB1	2.30	0.46
2:M:430:VAL:HG23	3:N:1078:ARG:CZ	2.46	0.46
2:M:226:VAL:HG13	2:M:227:PHE:N	2.30	0.46
1:K:42:ARG:NH1	2:M:857:ASP:CB	2.73	0.46
2:M:978:ARG:HG3	2:M:978:ARG:NH1	2.31	0.46
1:K:73:GLU:OE1	1:K:131:THR:N	2.49	0.46
1:L:14:ARG:HB2	1:L:22:GLU:HB2	1.97	0.46
3:N:76:CYS:SG	3:N:78:VAL:CG2	3.04	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:507:ARG:CD	2:M:507:ARG:H	2.23	0.46
2:C:1056:LYS:HB3	3:D:624:ASP:H	1.81	0.46
2:C:564:MET:O	2:C:567:GLN:N	2.44	0.46
3:N:166:GLN:NE2	3:N:167:GLU:H	2.14	0.46
2:M:212:GLY:HA3	2:M:218:VAL:HG21	1.98	0.46
3:N:1237:THR:CG2	3:N:1238:MET:N	2.79	0.46
1:B:80:LEU:HG	3:D:844:ALA:HB2	1.97	0.46
5:P:369:LEU:O	5:P:373:LYS:HD3	2.16	0.46
2:C:625:LEU:HD13	2:C:641:PRO:HG3	1.97	0.46
4:E:22:VAL:CG1	4:E:68:LEU:HD22	2.46	0.46
3:D:465:LEU:HD22	3:D:509:PRO:O	2.15	0.46
2:C:424:GLY:O	2:C:425:PHE:C	2.54	0.46
1:K:48:ILE:HA	1:K:49:PRO:HD3	1.78	0.46
3:D:1457:ASP:O	3:D:1458:GLU:C	2.53	0.46
2:C:987:ILE:HG12	3:D:948:THR:HG23	1.98	0.46
3:D:426:LYS:CB	5:F:134:LYS:O	2.57	0.46
4:E:48:MET:N	4:E:54:LEU:HB2	2.31	0.46
5:F:361:LEU:HD22	5:F:404:ALA:HB1	1.97	0.46
3:D:1087:ARG:O	3:D:1091:SER:HB2	2.15	0.46
3:D:729:HIS:CG	3:D:730:PRO:HD2	2.50	0.46
2:M:376:ARG:CB	2:M:377:PRO:HD3	2.36	0.46
4:E:17:TYR:O	4:E:21:VAL:HG23	2.15	0.46
3:D:1341:PRO:O	3:D:1342:GLU:C	2.54	0.46
3:D:820:GLU:HA	3:D:825:ALA:O	2.15	0.46
1:L:201:THR:HG23	1:L:207:PRO:HG3	1.98	0.46
3:N:470:LEU:O	3:N:471:GLU:C	2.54	0.46
3:N:404:GLU:CD	3:N:414:ARG:CZ	2.84	0.46
2:C:843:HIS:CD2	2:C:884:GLN:CA	2.97	0.46
2:M:553:ASP:HA	2:M:881:ASN:HA	1.96	0.46
2:C:928:LYS:HE3	2:C:928:LYS:HA	1.97	0.46
4:O:51:LEU:HD12	4:O:52:GLU:H	1.79	0.46
5:P:362:SER:O	5:P:363:GLU:C	2.54	0.46
2:M:223:ASP:O	2:M:225:SER:N	2.48	0.46
2:C:672:VAL:HG22	2:C:868:ASP:OD2	2.16	0.46
2:C:485:TYR:HD1	2:C:485:TYR:H	1.64	0.46
2:C:68:PHE:HE1	2:C:96:ALA:HB1	1.80	0.46
3:D:182:GLY:O	3:D:183:GLU:C	2.54	0.46
4:O:46:PRO:HB2	4:O:54:LEU:HD22	1.97	0.46
3:N:396:VAL:HG13	3:N:447:VAL:CA	2.43	0.46
1:A:13:VAL:CG1	1:A:14:ARG:H	2.29	0.46
3:N:225:LEU:HB2	3:N:227:LEU:HD22	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:168:THR:HB	3:N:393:ILE:HG13	1.96	0.46
2:M:100:LEU:HB2	2:M:368:THR:HG23	1.98	0.46
2:C:918:LEU:O	2:C:921:ALA:HB3	2.15	0.46
1:K:224:TYR:O	1:L:11:PHE:HB2	2.15	0.46
2:M:679:PHE:C	2:M:681:GLY:N	2.68	0.46
2:C:984:GLU:CG	3:D:944:THR:O	2.61	0.46
5:P:288:TYR:O	5:P:291:ILE:HG22	2.16	0.46
2:M:897:LEU:HD13	2:M:921:ALA:HB2	1.97	0.46
3:D:237:LYS:H	3:D:238:PRO:CD	2.28	0.46
2:M:750:LYS:HB2	3:N:681:ARG:HH21	1.80	0.46
2:C:611:ILE:HG13	2:C:625:LEU:HD11	1.96	0.46
2:C:751:PRO:HG2	2:C:795:GLY:O	2.16	0.46
3:D:929:ARG:HH11	3:D:929:ARG:HG3	1.79	0.46
5:P:400:ILE:O	5:P:404:ALA:HB3	2.15	0.46
3:N:1194:CYS:SG	3:N:1373:ARG:NH2	2.88	0.46
3:D:433:GLY:H	3:D:448:GLU:CA	2.28	0.46
3:N:35:ARG:HB3	3:N:35:ARG:NH1	2.31	0.46
2:M:1094:ALA:CB	3:N:520:LEU:HD13	2.46	0.46
3:N:685:ASP:O	3:N:686:GLU:C	2.52	0.46
3:D:400:VAL:C	3:D:402:PRO:HD3	2.36	0.46
2:C:20:GLU:OE2	2:C:460:ARG:HB3	2.15	0.46
2:C:23:VAL:O	2:C:25:SER:N	2.49	0.46
3:N:1188:VAL:CG2	3:N:1189:ARG:N	2.79	0.46
5:P:408:LEU:C	5:P:408:LEU:HD23	2.36	0.46
3:N:554:LEU:HD12	3:N:558:LEU:CD1	2.46	0.46
3:N:96:ALA:HB3	3:N:554:LEU:HG	1.98	0.46
5:P:213:ILE:O	5:P:217:ASN:ND2	2.49	0.46
3:D:974:ILE:HD13	3:D:991:GLN:CG	2.46	0.46
2:M:471:TYR:CD1	2:M:486:MET:CE	2.98	0.46
5:P:406:ARG:CB	5:P:409:LYS:HE2	2.46	0.46
5:P:358:LEU:HD23	5:P:358:LEU:C	2.35	0.46
5:P:386:VAL:HG13	5:P:394:ARG:CG	2.45	0.46
3:D:858:VAL:HG11	3:D:864:VAL:CG2	2.46	0.46
2:C:428:ARG:NH1	6:D:1525:STD:H141	2.31	0.46
3:N:1396:GLU:O	3:N:1400:VAL:HG23	2.16	0.46
2:M:430:VAL:HG12	2:M:430:VAL:O	2.15	0.46
3:D:223:LEU:HD13	3:D:223:LEU:H	1.81	0.46
2:M:627:ARG:NH1	2:M:627:ARG:HB3	2.31	0.46
1:K:181:VAL:CG1	2:M:938:LYS:HD2	2.46	0.46
3:N:237:LYS:CB	3:N:238:PRO:HD3	2.40	0.46
2:C:589:ARG:HA	2:C:596:TYR:CZ	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:240:THR:C	2:C:242:LEU:H	2.18	0.46
1:B:9:PRO:HB3	1:B:25:LEU:CG	2.44	0.46
3:D:775:GLY:HA3	3:D:1145:TYR:HE1	1.81	0.46
1:L:206:THR:CG2	1:L:209:GLU:OE2	2.64	0.46
3:N:633:VAL:HB	3:N:740:PHE:CE1	2.51	0.46
1:A:54:THR:HG23	1:A:156:HIS:CD2	2.51	0.46
5:F:163:LEU:HB3	5:F:174:LEU:CD1	2.46	0.46
1:L:81:ASN:CG	3:N:867:ARG:HH12	2.19	0.46
2:M:762:LYS:HB2	2:M:762:LYS:NZ	2.31	0.46
3:D:211:VAL:HG13	3:D:393:ILE:HG22	1.97	0.46
3:D:1258:ARG:HH21	3:D:1351:GLU:HG2	1.81	0.46
3:D:1047:LYS:HB3	3:D:1048:PRO:HD2	1.98	0.46
4:O:41:GLU:HB3	4:O:42:PRO:HD3	1.97	0.46
3:D:179:VAL:HG13	3:D:389:GLU:CG	2.44	0.46
2:M:325:ILE:O	2:M:327:HIS:N	2.49	0.46
3:N:550:ARG:CZ	3:N:573:MET:HB3	2.46	0.46
3:D:133:ILE:CG2	3:D:134:VAL:N	2.79	0.46
3:D:97:THR:CG2	3:D:571:LYS:HD3	2.46	0.46
3:D:1019:PRO:O	3:D:1020:LEU:C	2.53	0.46
2:M:163:ILE:HA	2:M:164:PRO:HD3	1.72	0.46
2:M:1042:ALA:HB1	3:N:710:ARG:HE	1.80	0.46
3:N:422:ALA:HB1	5:P:178:ARG:NE	2.31	0.46
5:F:384:GLU:OE2	5:F:384:GLU:O	2.34	0.46
3:D:849:ALA:O	3:D:853:VAL:HG23	2.15	0.46
2:C:1008:ARG:HG2	2:C:1009:SER:H	1.81	0.46
2:M:423:ALA:HA	6:M:1120:STD:H143	1.98	0.46
2:M:711:GLU:HB3	2:M:819:VAL:HG13	1.98	0.46
5:F:289:GLU:O	5:F:293:GLU:HG3	2.16	0.46
2:M:230:ARG:HB2	2:M:233:GLU:CB	2.41	0.46
2:M:227:PHE:HA	2:M:230:ARG:NE	2.30	0.46
3:N:1450:ALA:CA	3:N:1455:LYS:HG3	2.40	0.46
2:C:920:GLN:HG2	2:C:920:GLN:O	2.14	0.46
3:D:1149:LEU:CD2	3:D:1166:LEU:HD21	2.46	0.46
2:M:455:LEU:C	2:M:455:LEU:CD1	2.83	0.46
5:P:222:ARG:HD2	5:P:242:TRP:HE3	1.81	0.46
1:L:76:VAL:O	1:L:80:LEU:HB2	2.16	0.46
1:A:216:GLU:O	1:A:217:ILE:C	2.53	0.46
3:N:154:THR:HG22	3:N:155:ASP:N	2.29	0.46
2:C:683:ASN:HD22	2:C:872:ASN:HB2	1.80	0.46
2:C:838:LYS:C	2:C:839:LEU:HD23	2.36	0.46
3:N:166:GLN:H	3:N:395:VAL:HB	1.81	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:499:VAL:O	3:N:503:LEU:HB2	2.16	0.46
2:M:1119:ARG:NE	2:M:1119:ARG:HA	2.30	0.46
2:C:637:LEU:N	2:C:637:LEU:HD12	2.31	0.46
2:C:150:PRO:HA	2:C:158:TYR:HB3	1.97	0.46
1:A:211:LEU:O	1:A:211:LEU:HD12	2.15	0.46
3:N:647:ARG:NH1	3:N:680:GLN:OE1	2.48	0.46
3:N:1096:ARG:O	3:N:1097:LYS:C	2.54	0.46
3:D:1290:LEU:HD23	3:D:1291:SER:N	2.29	0.46
2:C:1038:TRP:HA	2:C:1041:GLU:HB2	1.97	0.46
3:N:638:LYS:O	3:N:640:HIS:N	2.49	0.46
2:C:571:LEU:N	2:C:571:LEU:HD12	2.31	0.45
3:D:1253:THR:CG2	3:D:1258:ARG:HB2	2.40	0.45
2:C:139:GLN:NE2	2:C:415:PRO:CD	2.76	0.45
2:C:602:GLU:HG2	2:C:646:GLY:HA2	1.98	0.45
3:N:131:LYS:HE2	3:N:456:MET:CE	2.46	0.45
3:N:175:VAL:O	3:N:217:LYS:HE2	2.16	0.45
5:P:140:ARG:HH11	5:P:140:ARG:HG3	1.82	0.45
5:F:386:VAL:CG1	5:F:387:GLY:H	2.10	0.45
2:M:3:ILE:HD13	2:M:900:ARG:O	2.15	0.45
1:B:152:PRO:HD2	1:B:155:LYS:HB2	1.98	0.45
2:M:73:LEU:HD21	2:M:118:ILE:HD11	1.98	0.45
3:N:481:MET:SD	3:N:1388:ARG:HG2	2.56	0.45
3:D:646:LYS:O	3:D:647:ARG:C	2.53	0.45
3:N:604:THR:O	3:N:607:LEU:N	2.37	0.45
3:N:1078:ARG:O	3:N:1079:LYS:C	2.54	0.45
3:D:599:PRO:O	3:D:601:ARG:N	2.49	0.45
3:N:1324:PRO:CG	3:N:1330:ILE:HD11	2.45	0.45
3:N:1124:GLN:N	3:N:1133:ARG:O	2.41	0.45
3:D:77:GLY:C	3:D:78:VAL:HG23	2.36	0.45
2:C:197:LEU:O	2:C:202:TYR:HB2	2.16	0.45
1:L:162:ILE:O	1:L:162:ILE:HG12	2.15	0.45
3:D:1040:GLY:O	3:D:1041:LEU:HB3	2.15	0.45
2:M:706:GLU:CG	2:M:707:ARG:N	2.79	0.45
2:C:939:ARG:HB3	2:C:982:PRO:HG2	1.97	0.45
5:P:289:GLU:H	5:P:289:GLU:CD	2.20	0.45
2:M:5:ARG:O	2:M:5:ARG:HG3	2.16	0.45
3:N:1167:SER:O	3:N:1171:VAL:HG23	2.16	0.45
3:N:223:LEU:HD23	3:N:365:ASP:H	1.80	0.45
1:K:170:VAL:O	1:K:170:VAL:HG23	2.16	0.45
2:C:700:TYR:CB	2:C:833:LEU:HD22	2.43	0.45
2:M:1018:GLN:CG	3:N:87:ARG:HH22	2.28	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:470:PRO:HB2	2:C:534:VAL:HG21	1.99	0.45
4:O:41:GLU:H	4:O:42:PRO:CD	2.28	0.45
3:N:162:ARG:HG2	3:N:163:TYR:N	2.31	0.45
3:D:375:GLU:HB3	3:D:385:VAL:HG11	1.97	0.45
2:M:415:PRO:HD2	2:M:418:LEU:HB2	1.98	0.45
3:D:787:LEU:HD21	3:D:947:ILE:HD11	1.98	0.45
1:A:34:VAL:HB	1:B:42:ARG:NE	2.31	0.45
3:D:1396:GLU:C	3:D:1398:TRP:N	2.66	0.45
2:M:1037:VAL:HG13	2:M:1049:LEU:HD11	1.97	0.45
3:N:1214:PRO:O	3:N:1215:VAL:O	2.34	0.45
5:P:181:GLU:O	5:P:184:ARG:HB3	2.16	0.45
2:C:182:VAL:HG12	2:C:183:SER:H	1.82	0.45
2:M:474:VAL:HG13	2:M:474:VAL:O	2.16	0.45
3:N:1116:ASN:N	3:N:1116:ASN:ND2	2.41	0.45
3:N:1116:ASN:O	3:N:1117:TYR:HB3	2.16	0.45
3:D:646:LYS:C	3:D:648:MET:N	2.69	0.45
2:C:1095:LEU:C	2:C:1097:LEU:N	2.63	0.45
3:D:598:ARG:HA	3:D:599:PRO:HD3	1.75	0.45
3:N:1274:ILE:HD11	3:N:1334:GLN:NE2	2.30	0.45
1:K:97:VAL:CG1	1:K:99:LEU:HD12	2.46	0.45
3:D:1476:THR:O	3:D:1476:THR:CG2	2.63	0.45
2:C:435:TYR:OH	2:C:498:GLN:NE2	2.42	0.45
1:B:27:PRO:CG	1:B:186:LEU:HD12	2.41	0.45
3:D:139:GLY:HA2	3:D:452:ILE:HD12	1.97	0.45
3:D:29:PRO:HG2	3:D:549:ASN:ND2	2.31	0.45
3:D:1066:THR:HG23	3:D:1069:GLU:OE1	2.15	0.45
5:F:263:HIS:C	5:F:265:VAL:H	2.20	0.45
2:C:1043:TYR:CZ	3:D:763:MET:HG3	2.51	0.45
3:N:815:ALA:C	3:N:817:GLU:H	2.19	0.45
2:C:185:LYS:N	2:C:185:LYS:CE	2.78	0.45
1:A:161:ARG:CG	1:A:161:ARG:NH1	2.77	0.45
5:F:131:VAL:O	5:F:135:ILE:HG12	2.16	0.45
3:D:1010:ASN:OD1	3:D:1014:ASN:ND2	2.48	0.45
2:C:448:ASN:HB3	2:C:452:ILE:HD13	1.97	0.45
1:L:42:ARG:HG2	1:L:42:ARG:NH1	2.31	0.45
2:M:499:ALA:O	2:M:501:THR:N	2.49	0.45
3:D:1158:VAL:HG12	3:D:1160:LEU:HD23	1.98	0.45
3:D:939:PHE:O	3:D:943:THR:HG23	2.16	0.45
3:D:1260:ILE:O	3:D:1262:LEU:N	2.49	0.45
2:C:54:ILE:HG23	2:C:54:ILE:O	2.16	0.45
3:D:612:GLY:O	3:D:615:ARG:HB2	2.15	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1488:ASP:OD1	4:O:26:ARG:NH1	2.50	0.45
3:D:172:PRO:HA	3:D:173:PRO:HD3	1.73	0.45
3:D:396:VAL:HG13	3:D:447:VAL:N	2.31	0.45
3:D:158:TYR:CE1	3:D:454:ALA:HB3	2.51	0.45
3:D:674:ARG:CZ	5:F:342:VAL:HG11	2.46	0.45
2:M:18:LEU:O	2:M:21:ILE:HD13	2.16	0.45
3:N:1377:LYS:HE3	3:N:1394:VAL:HG13	1.97	0.45
2:M:578:VAL:HG13	2:M:671:ASN:CB	2.46	0.45
2:M:307:LEU:HG	2:M:311:PHE:CE1	2.51	0.45
2:M:100:LEU:HD22	2:M:368:THR:OG1	2.17	0.45
3:D:223:LEU:CD1	3:D:365:ASP:H	2.28	0.45
3:N:827:ILE:HA	3:N:836:VAL:CG1	2.46	0.45
3:N:1273:VAL:HG23	3:N:1325:LEU:HB2	1.98	0.45
3:N:97:THR:O	3:N:98:PRO:O	2.34	0.45
1:K:132:LEU:N	1:K:132:LEU:CD1	2.79	0.45
3:D:1036:ARG:HH21	3:D:1042:ARG:HA	1.81	0.45
3:D:1133:ARG:HG2	3:D:1134:LEU:O	2.16	0.45
2:C:678:PRO:HA	2:C:683:ASN:HD21	1.82	0.45
3:D:67:ARG:CB	5:F:375:LEU:HD11	2.45	0.45
2:M:807:ARG:HH11	2:M:807:ARG:HB2	1.81	0.45
2:C:827:VAL:HG12	2:C:828:ALA:N	2.31	0.45
3:D:508:ARG:HG2	3:D:508:ARG:HH11	1.81	0.45
1:K:188:GLN:HB2	1:K:188:GLN:HE21	1.60	0.45
2:M:948:GLU:OE2	2:M:955:PRO:HB3	2.17	0.45
3:N:576:GLU:O	3:N:579:ASP:HB2	2.16	0.45
2:M:404:LEU:HD12	2:M:404:LEU:HA	1.79	0.45
3:N:55:ASP:HA	3:N:82:LYS:HG2	1.97	0.45
2:C:140:ILE:HG21	2:C:331:ARG:HH12	1.81	0.45
2:C:470:PRO:CB	2:C:534:VAL:HG21	2.47	0.45
4:O:44:GLU:O	4:O:45:ARG:HD3	2.17	0.45
1:A:195:LEU:HD12	1:A:196:THR:N	2.30	0.45
1:K:150:TYR:CD1	2:M:696:LYS:HG2	2.51	0.45
2:C:9:ILE:HG12	2:C:907:ASP:OD2	2.16	0.45
3:D:1109:GLU:HG2	3:D:1202:GLN:N	2.31	0.45
3:D:1197:ARG:NH2	3:D:1377:LYS:HD2	2.32	0.45
3:D:1488:ASP:HB3	4:E:39:VAL:CG1	2.42	0.45
3:D:993:LEU:O	3:D:994:GLN:C	2.53	0.45
3:N:1198:TYR:HE2	3:N:1377:LYS:NZ	2.14	0.45
1:K:38:ASN:O	1:K:39:PRO:C	2.55	0.45
2:M:114:PHE:CZ	5:P:283:GLY:C	2.89	0.45
3:N:1388:ARG:HG3	3:N:1389:LEU:CD2	2.41	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1233:GLY:O	3:D:1236:LEU:HG	2.15	0.45
3:N:606:ILE:O	3:N:606:ILE:HG22	2.16	0.45
2:M:376:ARG:HA	2:M:376:ARG:NE	2.31	0.45
1:L:132:LEU:HD22	1:L:138:LEU:HB2	1.95	0.45
3:D:561:GLY:HA3	5:F:184:ARG:NH2	2.30	0.45
1:L:100:LEU:HD12	1:L:100:LEU:N	2.31	0.45
2:C:252:LYS:HE2	2:C:296:GLY:CA	2.44	0.45
3:D:608:SER:HB3	3:D:1443:THR:OG1	2.17	0.45
3:D:19:ARG:O	3:D:20:SER:C	2.54	0.45
5:P:376:ILE:HG22	5:P:377:ASP:N	2.31	0.45
1:L:81:ASN:OD1	3:N:867:ARG:NH1	2.49	0.45
2:M:345:ARG:C	2:M:347:GLY:N	2.68	0.45
2:M:824:ARG:HH11	2:M:824:ARG:HG2	1.80	0.45
1:K:37:GLY:O	1:K:40:LEU:HB2	2.16	0.45
2:C:978:ARG:HE	2:C:978:ARG:HB2	1.47	0.45
2:M:1086:ARG:O	2:M:1087:VAL:C	2.54	0.45
3:N:1188:VAL:HG22	3:N:1189:ARG:N	2.31	0.45
3:D:914:LEU:HD21	3:D:930:LEU:HD21	1.99	0.45
1:K:150:TYR:CE1	2:M:696:LYS:HA	2.51	0.45
3:D:455:ARG:C	3:D:456:MET:HE2	2.36	0.45
3:D:579:ASP:O	3:D:580:ALA:C	2.54	0.45
3:D:761:ILE:O	3:D:767:HIS:CD2	2.69	0.45
3:N:141:ILE:H	3:N:141:ILE:CD1	2.15	0.45
3:D:840:LYS:CD	3:D:841:TYR:CZ	3.00	0.45
3:D:601:ARG:O	3:D:601:ARG:CG	2.63	0.45
3:N:1326:THR:HG22	3:N:1327:ARG:H	1.81	0.45
1:K:32:PHE:O	1:K:33:GLY:C	2.53	0.45
3:D:377:VAL:HG13	3:D:382:GLU:CG	2.41	0.45
2:M:455:LEU:HD13	2:M:456:ALA:O	2.16	0.45
3:N:1094:LEU:HD13	3:N:1260:ILE:HD13	1.97	0.45
3:N:1158:VAL:CG1	3:N:1159:ARG:N	2.80	0.45
5:P:326:ASP:OD2	5:P:326:ASP:N	2.49	0.45
2:C:770:GLU:HG2	3:D:65:ARG:NH2	2.31	0.45
2:M:1064:ASN:HD21	5:P:344:ALA:CB	2.29	0.45
2:M:958:THR:HG23	2:M:961:GLU:H	1.82	0.45
2:M:539:VAL:HG21	3:N:1067:VAL:HG11	1.98	0.45
3:D:1336:LEU:HA	3:D:1344:VAL:CG2	2.47	0.45
2:M:27:ARG:HB3	2:M:27:ARG:CZ	2.46	0.45
2:M:1021:LEU:HG	2:M:1022:GLY:H	1.81	0.45
3:D:177:ALA:O	3:D:179:VAL:N	2.49	0.45
3:D:200:ASP:O	3:D:201:GLY:O	2.35	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:94:LEU:HD12	5:F:97:GLU:N	2.31	0.45
2:C:643:VAL:HG13	2:C:647:GLN:CD	2.36	0.45
3:D:427:VAL:HG21	3:D:435:VAL:HB	1.97	0.45
3:N:128:TYR:CE1	3:N:461:ILE:HG13	2.52	0.45
3:D:119:SER:H	3:D:123:LEU:HD13	1.82	0.45
2:C:9:ILE:O	2:C:11:GLU:N	2.50	0.45
3:N:224:ARG:HD2	3:N:225:LEU:O	2.17	0.45
2:M:164:PRO:HD2	2:M:170:PRO:O	2.17	0.45
3:N:1451:ALA:O	3:N:1453:ALA:N	2.49	0.45
1:K:43:ILE:CD1	1:L:35:THR:HG21	2.43	0.45
2:M:987:ILE:HG22	2:M:988:VAL:N	2.31	0.45
3:N:1066:THR:HG23	3:N:1069:GLU:CG	2.47	0.45
3:N:604:THR:O	3:N:606:ILE:N	2.50	0.45
5:P:403:LYS:O	5:P:407:LYS:HG2	2.17	0.45
2:C:841:ASN:C	2:C:841:ASN:HD22	2.20	0.45
3:D:81:THR:O	3:D:82:LYS:O	2.35	0.45
2:C:671:ASN:ND2	2:C:671:ASN:H	2.12	0.45
3:D:963:TYR:CD2	3:D:1002:LYS:HB3	2.51	0.45
2:C:250:ARG:CZ	2:C:253:ALA:HB1	2.46	0.45
5:F:113:ILE:HG23	5:F:127:ILE:CG2	2.47	0.45
3:D:1284:GLU:OE1	3:D:1284:GLU:HA	2.16	0.45
2:C:756:VAL:HG23	2:C:825:VAL:HG21	1.98	0.45
1:L:15:THR:C	1:L:16:GLN:OE1	2.55	0.45
2:C:159:ILE:HG21	2:C:175:GLU:OE1	2.17	0.45
2:C:911:GLU:OE1	3:D:1062:ARG:NH2	2.45	0.45
3:N:653:PHE:N	3:N:653:PHE:CD1	2.84	0.45
2:C:334:ARG:HB3	2:C:338:GLU:OE2	2.16	0.45
3:D:95:LEU:H	3:D:95:LEU:HD12	1.80	0.45
3:N:129:PHE:O	3:N:572:ARG:HG3	2.17	0.45
2:C:9:ILE:HD11	2:C:907:ASP:HB3	1.99	0.45
3:N:710:ARG:C	3:N:712:GLY:N	2.70	0.45
2:C:482:GLU:OE2	2:C:484:VAL:HG23	2.16	0.45
3:N:1062:ARG:O	3:N:1062:ARG:HD3	2.16	0.45
2:C:513:VAL:O	2:C:524:VAL:HG12	2.17	0.45
2:M:611:ILE:HD11	2:M:641:PRO:HB3	1.99	0.45
3:D:609:GLY:C	3:D:611:GLN:H	2.20	0.45
3:N:1122:LEU:HD23	3:N:1178:ALA:HB2	1.98	0.45
1:K:80:LEU:HD12	1:K:83:LYS:HD3	1.97	0.45
3:N:75:ARG:N	3:N:75:ARG:HE	2.15	0.45
3:N:237:LYS:HB3	3:N:238:PRO:CD	2.39	0.45
2:M:229:MET:C	2:M:230:ARG:HD3	2.37	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:742:VAL:CG1	2:C:743:VAL:N	2.79	0.45
3:N:59:ALA:HB3	3:N:78:VAL:CG2	2.44	0.45
1:A:224:TYR:CG	1:B:9:PRO:HG2	2.52	0.45
2:C:185:LYS:H	2:C:185:LYS:CE	2.29	0.45
2:M:927:GLY:HA2	2:M:930:LYS:HZ1	1.81	0.45
2:C:599:GLU:CG	2:C:600:ASP:N	2.79	0.45
3:D:558:LEU:O	3:D:561:GLY:O	2.34	0.45
2:M:384:GLU:O	2:M:384:GLU:HG2	2.16	0.45
5:P:261:PRO:O	5:P:264:MET:HB2	2.17	0.45
2:M:854:PRO:HB3	2:M:856:GLU:CD	2.37	0.45
5:P:400:ILE:HG23	5:P:404:ALA:CB	2.47	0.45
2:C:232:GLU:O	2:C:232:GLU:HG2	2.17	0.45
3:N:1382:THR:OG1	3:N:1416:ALA:HB3	2.17	0.45
3:N:1296:SER:OG	3:N:1297:GLU:N	2.49	0.45
2:C:35:PRO:C	2:C:37:GLU:H	2.20	0.45
3:N:54:LYS:HD3	3:N:57:GLU:HB2	1.99	0.45
3:N:691:LEU:C	3:N:693:GLU:N	2.69	0.45
5:F:158:GLU:HA	5:F:161:GLN:CD	2.37	0.45
2:C:490:GLU:HG3	2:C:493:ARG:CZ	2.47	0.45
2:C:551:GLU:HG2	2:C:905:ILE:O	2.17	0.45
3:N:1109:GLU:OE1	3:N:1111:ASP:N	2.50	0.45
3:D:119:SER:C	3:D:121:THR:N	2.69	0.45
4:E:26:ARG:NH2	4:E:38:THR:HA	2.31	0.45
3:D:661:MET:HE2	3:D:673:ALA:HB1	1.97	0.45
3:D:1129:THR:CG2	3:D:1130:ARG:H	2.05	0.45
1:K:88:ARG:HD2	1:K:121:GLU:OE1	2.17	0.45
3:D:536:ALA:HA	5:F:315:VAL:O	2.17	0.45
3:N:623:VAL:HG12	3:N:625:TYR:H	1.82	0.45
3:D:1281:VAL:HG12	3:D:1315:ASP:HA	1.98	0.45
3:N:825:ALA:HA	3:N:826:PRO:HD3	1.74	0.45
3:N:838:ARG:HE	3:N:874:GLU:CD	2.20	0.45
2:C:923:GLU:O	2:C:925:TYR:N	2.49	0.45
1:K:33:GLY:HA3	1:K:181:VAL:HG22	1.99	0.45
5:P:419:ARG:O	5:P:421:PHE:N	2.49	0.45
1:K:129:ILE:O	1:K:130:ALA:HB2	2.17	0.45
2:C:188:LYS:HD3	2:C:189:ARG:N	2.32	0.45
3:N:1336:LEU:HD22	3:N:1421:LEU:HB2	1.99	0.45
2:C:705:ILE:HD12	2:C:705:ILE:N	2.31	0.45
2:C:222:MET:O	2:C:223:ASP:C	2.56	0.45
3:D:676:MET:HE3	3:D:684:LYS:H	1.82	0.45
1:A:68:ILE:HB	1:A:71:VAL:HB	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:601:GLY:HA2	2:C:616:GLU:HG2	1.99	0.45
3:D:888:GLU:O	3:D:889:ALA:C	2.54	0.45
5:P:349:LEU:O	5:P:353:GLU:HB2	2.16	0.45
3:D:217:LYS:HE3	3:D:388:HIS:C	2.37	0.45
3:N:150:ARG:NH1	3:N:464:LEU:HD22	2.32	0.45
1:L:30:ARG:HH22	2:M:692:GLU:CD	2.18	0.45
2:M:572:ILE:HG13	2:M:573:ARG:H	1.82	0.45
2:C:607:ASP:CB	2:C:610:ARG:H	2.30	0.45
2:C:643:VAL:HG23	2:C:655:LEU:HA	1.98	0.45
1:B:215:VAL:HG23	1:B:216:GLU:N	2.32	0.45
3:D:371:ILE:HD12	3:D:371:ILE:C	2.36	0.45
3:N:702:LEU:HD22	3:N:716:PHE:CE1	2.52	0.45
2:M:15:LEU:HD21	2:M:583:LEU:CD2	2.47	0.45
3:N:1271:LYS:CE	3:N:1334:GLN:HE22	2.30	0.45
3:N:1271:LYS:CE	3:N:1334:GLN:NE2	2.79	0.45
3:N:598:ARG:HG2	3:N:599:PRO:O	2.17	0.45
1:K:42:ARG:NH1	2:M:978:ARG:HA	2.32	0.45
3:D:806:PHE:HD1	3:D:812:ALA:CB	2.28	0.45
2:M:413:LEU:HD12	2:M:451:LEU:HD22	1.99	0.45
5:F:78:SER:HB2	5:F:82:ARG:NH2	2.32	0.45
3:D:72:VAL:HG12	3:D:73:CYS:O	2.17	0.45
1:L:3:ASP:CG	1:L:4:SER:N	2.70	0.45
1:K:82:LEU:C	1:K:84:GLU:H	2.20	0.45
5:P:139:ALA:HB1	5:P:152:ASP:HB3	1.96	0.45
2:M:42:VAL:HG12	2:M:43:GLY:N	2.32	0.45
2:C:325:ILE:HG22	2:C:325:ILE:O	2.17	0.45
1:K:117:VAL:HG12	1:K:118:ALA:N	2.32	0.45
2:M:724:ARG:HG2	2:M:724:ARG:O	2.17	0.45
3:D:868:TYR:O	3:D:869:MET:C	2.52	0.45
3:N:1447:LEU:O	3:N:1448:THR:C	2.55	0.45
1:L:82:LEU:O	1:L:85:LEU:HB3	2.17	0.45
2:C:697:ARG:O	2:C:698:ASP:C	2.53	0.45
2:M:1014:SER:CB	2:M:1017:THR:HG23	2.47	0.45
3:D:616:GLN:HA	3:D:619:LEU:HD22	1.99	0.45
3:N:1047:LYS:HB3	3:N:1048:PRO:CD	2.47	0.45
3:D:217:LYS:HE3	3:D:389:GLU:HB3	1.99	0.45
2:M:693:GLU:O	2:M:696:LYS:HB2	2.17	0.45
2:M:697:ARG:O	2:M:699:PHE:N	2.46	0.45
3:N:225:LEU:C	3:N:227:LEU:HD22	2.37	0.45
3:N:776:GLU:HA	3:N:777:PRO:HD3	1.86	0.45
3:N:781:PRO:HB2	3:N:911:LEU:CD2	2.32	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:514:VAL:HG11	2:M:516:ARG:CZ	2.47	0.45
1:K:178:ALA:HB2	2:M:864:GLY:HA2	1.99	0.45
3:N:592:THR:N	3:N:600:LEU:HD21	2.32	0.45
3:N:1440:PHE:HB2	3:N:1442:ASN:ND2	2.32	0.45
3:D:1145:TYR:C	3:D:1145:TYR:CD2	2.89	0.45
5:P:77:THR:HA	5:P:80:PRO:HD2	1.99	0.45
1:L:32:PHE:C	1:L:34:VAL:N	2.67	0.45
1:B:78:ILE:C	1:B:80:LEU:N	2.71	0.45
5:P:202:TYR:OH	5:P:244:ARG:HG2	2.16	0.45
2:M:1109:VAL:HG11	3:N:3:LYS:O	2.17	0.45
3:N:1290:LEU:HD12	3:N:1305:LEU:O	2.17	0.45
2:M:501:THR:CB	2:M:513:VAL:HG11	2.46	0.45
3:N:868:TYR:HE1	3:N:869:MET:HE2	1.81	0.45
3:D:1333:HIS:O	3:D:1336:LEU:HB3	2.17	0.45
5:P:114:LYS:O	5:P:116:LEU:N	2.50	0.45
2:M:439:CYS:HA	2:M:440:PRO:HD3	1.74	0.45
3:D:785:ILE:HG13	3:D:939:PHE:CE2	2.52	0.44
3:D:50:PHE:CG	3:D:522:PRO:CG	3.00	0.44
3:N:162:ARG:HA	3:N:434:ARG:HH21	1.81	0.44
2:C:603:VAL:HG23	2:C:647:GLN:O	2.17	0.44
3:N:119:SER:C	3:N:121:THR:N	2.71	0.44
3:N:214:GLU:HG2	3:N:215:TYR:CD1	2.53	0.44
3:N:428:LYS:HD3	3:N:451:ASP:HB3	1.99	0.44
3:N:913:ASP:O	3:N:914:LEU:C	2.55	0.44
2:M:534:VAL:HG23	2:M:538:GLN:NE2	2.31	0.44
3:D:1117:TYR:HE2	3:D:1151:ARG:NH1	2.15	0.44
2:M:94:LEU:O	2:M:114:PHE:HA	2.17	0.44
3:N:1043:GLY:O	3:N:1056:PRO:CA	2.65	0.44
3:D:647:ARG:HD2	3:D:680:GLN:HE22	1.82	0.44
2:C:1034:GLU:HG3	2:C:1035:MET:H	1.82	0.44
5:F:419:ARG:HH11	5:F:419:ARG:CG	2.29	0.44
2:M:358:ARG:HH22	2:M:374:ASN:CG	2.20	0.44
3:N:1090:ASP:O	3:N:1091:SER:C	2.54	0.44
2:C:940:GLU:O	2:C:944:LEU:HD12	2.17	0.44
2:C:1088:LEU:HG	3:D:607:LEU:CD2	2.47	0.44
3:D:959:GLU:HB2	3:D:963:TYR:HE1	1.80	0.44
3:N:1281:VAL:HG11	3:N:1314:LYS:O	2.17	0.44
2:C:736:ASP:OD1	2:C:747:ALA:HB1	2.16	0.44
3:N:1365:ASP:O	3:N:1366:LYS:C	2.55	0.44
3:D:475:LYS:HG2	3:D:478:LEU:HD12	1.99	0.44
2:M:706:GLU:N	2:M:827:VAL:O	2.51	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1076:GLY:O	3:D:1079:LYS:HG2	2.17	0.44
3:D:687:VAL:O	3:D:690:ALA:N	2.49	0.44
1:B:220:GLU:O	1:B:223:THR:HG22	2.17	0.44
2:C:708:TYR:HE2	2:C:793:PRO:CD	2.29	0.44
2:C:853:LEU:HA	2:C:854:PRO:HD3	1.87	0.44
3:N:46:ASP:OD2	3:N:48:ARG:HB3	2.17	0.44
2:C:551:GLU:OE1	2:C:906:PHE:HA	2.18	0.44
3:D:1049:SER:OG	3:D:1051:GLU:HG2	2.16	0.44
2:M:877:PRO:O	2:M:879:ARG:O	2.35	0.44
3:N:783:ARG:NH1	3:N:1029:ARG:CZ	2.80	0.44
2:M:837:ASP:OD2	2:M:999:HIS:CE1	2.70	0.44
3:N:570:GLU:O	3:N:573:MET:N	2.50	0.44
3:D:656:PHE:HE1	3:D:751:LEU:CD2	2.30	0.44
3:D:1055:VAL:HA	3:D:1056:PRO:HD3	1.83	0.44
3:N:421:LEU:HD11	3:N:437:VAL:HG21	1.97	0.44
3:D:136:ASP:HB3	3:D:137:PRO:HD3	1.90	0.44
2:M:984:GLU:HG3	3:N:944:THR:O	2.17	0.44
2:C:742:VAL:CG1	2:C:743:VAL:H	2.25	0.44
3:D:78:VAL:HG12	3:D:79:GLU:O	2.17	0.44
1:A:224:TYR:CD1	1:B:9:PRO:HD2	2.53	0.44
5:F:415:THR:HG22	5:F:417:LYS:HE3	1.99	0.44
2:C:769:PRO:O	2:C:772:ARG:N	2.49	0.44
2:M:706:GLU:HG3	2:M:707:ARG:N	2.31	0.44
2:M:135:VAL:HG23	2:M:395:LYS:HA	1.98	0.44
2:C:625:LEU:O	2:C:626:ARG:C	2.55	0.44
4:O:16:LYS:O	4:O:18:ARG:N	2.50	0.44
2:C:787:ASP:CG	2:C:791:ARG:HH21	2.20	0.44
3:N:1102:THR:O	3:N:1102:THR:HG22	2.18	0.44
2:M:799:ILE:O	2:M:801:VAL:HG13	2.16	0.44
2:C:853:LEU:HD23	2:C:858:MET:HB3	1.98	0.44
3:N:26:VAL:CG1	3:N:44:LEU:HD23	2.33	0.44
2:M:1072:LYS:C	3:N:659:LYS:NZ	2.71	0.44
3:N:661:MET:O	3:N:664:LYS:O	2.35	0.44
5:F:151:LEU:HB2	5:F:155:THR:OG1	2.17	0.44
2:C:41:ASN:HA	2:C:45:GLN:HG2	1.99	0.44
3:D:89:ARG:NH1	3:D:89:ARG:HG2	2.33	0.44
3:D:93:ILE:HD13	3:D:548:ILE:HD13	1.95	0.44
3:D:1198:TYR:CE1	3:D:1460:ILE:HD13	2.52	0.44
3:N:457:GLY:C	3:N:459:GLU:N	2.68	0.44
5:P:214:GLN:NE2	5:P:214:GLN:HA	2.32	0.44
3:D:131:LYS:HD3	5:F:83:GLN:CD	2.38	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:426:LYS:HG2	3:N:426:LYS:O	2.17	0.44
1:B:23:PHE:O	1:B:197:LEU:HD23	2.17	0.44
2:M:433:THR:C	2:M:435:TYR:H	2.20	0.44
2:M:352:ALA:O	2:M:356:ARG:HG3	2.17	0.44
1:A:90:LEU:HD12	1:A:119:ASP:CA	2.34	0.44
1:K:44:LEU:HD21	1:K:199:ILE:HD13	1.99	0.44
2:M:860:HIS:CD2	2:M:975:TYR:HB2	2.52	0.44
5:P:386:VAL:HG13	5:P:394:ARG:NE	2.32	0.44
2:M:176:VAL:C	2:M:178:PRO:HD3	2.37	0.44
3:N:758:GLU:HG3	4:O:20:THR:HG21	2.00	0.44
3:N:1117:TYR:CD2	3:N:1117:TYR:N	2.86	0.44
3:N:486:ARG:HH21	3:N:489:ARG:CD	2.28	0.44
3:D:10:ILE:HD11	3:D:1434:TRP:CE2	2.53	0.44
3:D:10:ILE:HG13	3:D:1434:TRP:CE2	2.52	0.44
3:N:639:LEU:HA	3:N:729:HIS:CD2	2.52	0.44
3:D:1461:GLY:O	3:D:1473:PRO:HG2	2.18	0.44
3:N:1320:GLU:CG	3:N:1323:GLN:HE21	2.31	0.44
3:N:571:LYS:HZ2	3:N:571:LYS:HB2	1.82	0.44
3:D:511:TRP:N	3:D:511:TRP:CE3	2.86	0.44
1:B:106:PRO:HD3	1:B:134:GLU:OE2	2.17	0.44
3:D:561:GLY:HA3	5:F:184:ARG:NH1	2.30	0.44
5:F:188:ILE:HG23	5:F:220:LEU:HD23	1.98	0.44
2:M:1115:LEU:HA	3:N:89:ARG:HH21	1.82	0.44
2:C:631:SER:O	2:C:632:ASN:C	2.56	0.44
5:P:340:SER:O	5:P:343:ASP:N	2.50	0.44
2:M:880:MET:CE	3:N:1034:GLN:HG2	2.47	0.44
1:A:82:LEU:C	1:A:84:GLU:H	2.21	0.44
3:N:868:TYR:HD1	3:N:869:MET:H	1.65	0.44
3:N:1137:ARG:CD	3:N:1137:ARG:H	2.31	0.44
1:K:115:LEU:O	1:K:115:LEU:HD12	2.17	0.44
2:C:693:GLU:OE1	2:C:693:GLU:HA	2.17	0.44
3:N:1047:LYS:HB2	3:N:1051:GLU:O	2.16	0.44
3:N:932:ASP:OD1	3:N:935:LYS:NZ	2.49	0.44
5:F:84:TYR:HB3	5:F:88:ILE:HD12	1.99	0.44
3:D:1197:ARG:C	3:D:1199:GLY:H	2.21	0.44
3:N:753:SER:O	3:N:754:PHE:C	2.55	0.44
1:A:123:MET:O	1:A:125:PRO:HD3	2.17	0.44
3:N:462:GLN:OE1	3:N:466:LYS:HE3	2.17	0.44
2:M:471:TYR:HD1	2:M:486:MET:CE	2.30	0.44
1:K:47:SER:CB	1:K:217:ILE:HD13	2.45	0.44
3:D:858:VAL:HG12	3:D:862:ASP:HB2	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:114:PHE:CE2	5:P:283:GLY:O	2.71	0.44
3:D:1314:LYS:HD3	3:D:1314:LYS:H	1.82	0.44
3:N:628:ARG:O	3:N:629:SER:HB3	2.18	0.44
3:N:493:ARG:HE	3:N:1389:LEU:CG	2.31	0.44
3:D:631:ILE:CG2	3:D:745:MET:HB2	2.47	0.44
3:D:729:HIS:HD1	3:D:731:LEU:N	2.15	0.44
3:N:799:LYS:HD2	3:N:799:LYS:C	2.36	0.44
3:N:1160:LEU:N	3:N:1160:LEU:HD23	2.33	0.44
3:N:989:TYR:O	3:N:992:ILE:N	2.38	0.44
2:M:710:ILE:HG23	2:M:710:ILE:O	2.17	0.44
3:D:833:GLU:O	3:D:834:THR:HG23	2.17	0.44
2:C:517:ARG:HG3	2:C:517:ARG:NH1	2.32	0.44
2:C:704:HIS:CD2	2:C:831:ARG:HH12	2.35	0.44
1:B:176:ARG:NH2	3:D:884:ARG:HD3	2.31	0.44
1:K:69:PRO:O	1:K:71:VAL:N	2.51	0.44
3:D:207:PHE:HA	3:D:208:PRO:HD3	1.74	0.44
3:D:684:LYS:O	3:D:687:VAL:HG23	2.17	0.44
4:O:52:GLU:HA	4:O:52:GLU:OE2	2.17	0.44
2:M:663:ASN:OD1	2:M:663:ASN:O	2.36	0.44
1:B:81:ASN:ND2	1:B:128:HIS:O	2.50	0.44
4:E:83:ASP:O	4:E:86:GLN:HG2	2.17	0.44
3:D:1339:LYS:HD3	3:D:1343:ALA:HB1	1.98	0.44
2:C:670:GLN:HE22	2:C:699:PHE:CA	2.31	0.44
3:N:82:LYS:C	3:N:84:ILE:H	2.20	0.44
2:C:328:LEU:N	2:C:328:LEU:HD12	2.32	0.44
2:C:141:HIS:HE1	2:C:332:ARG:HH11	1.62	0.44
2:C:326:ASP:HB2	2:C:431:HIS:CE1	2.53	0.44
2:C:458:TYR:HB3	2:C:470:PRO:CG	2.47	0.44
3:N:810:GLU:HA	3:N:813:LEU:CD2	2.47	0.44
4:O:54:LEU:HD23	4:O:58:PRO:HD2	2.00	0.44
3:N:941:PHE:O	3:N:942:SER:C	2.56	0.44
3:D:127:LEU:C	3:D:127:LEU:HD12	2.37	0.44
1:K:85:LEU:HD12	1:K:86:VAL:N	2.32	0.44
3:D:965:GLU:OE1	3:D:965:GLU:HA	2.17	0.44
2:C:1062:GLY:O	2:C:1065:ALA:N	2.50	0.44
3:D:232:GLU:HB2	3:D:234:GLU:CD	2.38	0.44
1:K:214:ALA:O	1:K:215:VAL:C	2.54	0.44
1:K:44:LEU:C	1:K:46:SER:H	2.21	0.44
3:N:699:VAL:CB	3:N:716:PHE:O	2.64	0.44
3:N:493:ARG:CB	3:N:493:ARG:HH11	2.30	0.44
3:N:505:SER:O	3:N:506:GLY:O	2.34	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:196:LEU:HA	2:M:199:VAL:HG23	1.99	0.44
2:M:194:VAL:CG1	2:M:221:LEU:HG	2.47	0.44
3:D:798:GLU:CG	3:D:799:LYS:H	2.21	0.44
3:N:835:SER:H	3:N:838:ARG:HG3	1.81	0.44
2:C:1095:LEU:HD11	3:D:603:LEU:HB3	2.00	0.44
3:N:245:LEU:C	3:N:245:LEU:HD13	2.37	0.44
3:N:1163:GLY:O	3:N:1164:ARG:C	2.56	0.44
2:M:944:LEU:HD21	2:M:963:LEU:HD23	1.99	0.44
3:D:642:CYS:O	3:D:718:PRO:HA	2.17	0.44
2:C:191:PHE:CE2	2:C:238:LEU:HD11	2.53	0.44
3:D:835:SER:O	3:D:837:GLY:N	2.51	0.44
3:D:1147:ARG:HB3	3:D:1188:VAL:HG23	1.99	0.44
2:C:563:ASN:O	2:C:564:MET:C	2.53	0.44
5:P:77:THR:O	5:P:81:VAL:HG23	2.18	0.44
2:M:643:VAL:HG13	2:M:647:GLN:OE1	2.18	0.44
2:M:559:LEU:HG	2:M:560:MET:N	2.30	0.44
2:C:943:VAL:HG21	2:C:973:VAL:CG1	2.47	0.44
1:L:161:ARG:HG3	1:L:161:ARG:NH1	2.32	0.44
1:B:77:GLU:HB2	3:D:872:ARG:HH22	1.82	0.44
2:M:751:PRO:HB2	3:N:680:GLN:HG3	1.99	0.44
2:M:1016:ILE:HG12	2:M:1017:THR:H	1.82	0.44
2:C:551:GLU:HB3	2:C:906:PHE:HD2	1.75	0.44
3:N:808:THR:H	3:N:809:PRO:HD3	1.83	0.44
3:D:172:PRO:HA	3:D:178:LEU:HD12	1.99	0.44
3:D:217:LYS:HB2	3:D:217:LYS:NZ	2.28	0.44
3:D:1389:LEU:O	3:D:1391:GLU:N	2.50	0.44
3:D:790:TYR:HD2	3:D:906:GLN:O	2.01	0.44
3:N:1451:ALA:C	3:N:1453:ALA:N	2.71	0.44
1:K:35:THR:HG21	1:L:43:ILE:HD11	1.98	0.44
2:C:455:LEU:HD12	2:C:455:LEU:C	2.38	0.44
2:C:1102:LEU:HD23	2:C:1106:ASP:HB3	2.00	0.44
2:M:44:ILE:H	2:M:44:ILE:CD1	2.30	0.44
3:N:928:ALA:O	3:N:931:LEU:HB2	2.18	0.44
3:N:29:PRO:HG2	3:N:549:ASN:HD22	1.80	0.44
1:K:195:LEU:CD1	1:K:196:THR:N	2.75	0.44
2:M:1044:GLY:C	2:M:1046:ALA:N	2.64	0.44
3:D:826:PRO:C	3:D:829:VAL:HG22	2.38	0.44
1:L:201:THR:C	1:L:203:GLY:H	2.20	0.44
2:C:810:ASP:OD2	2:C:815:LEU:HD22	2.17	0.44
2:C:872:ASN:OD1	2:C:873:PRO:HD2	2.17	0.44
5:F:191:ASN:O	5:F:194:LEU:HB3	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:470:LEU:CD1	3:N:503:LEU:HG	2.48	0.44
4:O:59:ASN:HD22	4:O:59:ASN:HA	1.62	0.44
3:D:166:GLN:HG2	3:D:207:PHE:CG	2.53	0.44
3:N:230:TRP:C	3:N:232:GLU:H	2.21	0.44
3:D:1135:ARG:HB2	3:D:1140:ILE:HD11	1.99	0.44
1:A:4:SER:O	1:A:7:LYS:HB3	2.18	0.44
2:M:1015:LEU:HB3	2:M:1016:ILE:HD13	2.00	0.44
3:N:657:LEU:O	3:N:658:LEU:C	2.56	0.44
5:F:164:LYS:CB	5:F:171:LYS:NZ	2.80	0.44
3:D:396:VAL:HG22	3:D:447:VAL:CA	2.47	0.44
3:D:568:ARG:O	3:D:572:ARG:N	2.42	0.44
5:F:88:ILE:O	5:F:92:PRO:HG3	2.18	0.44
2:M:80:GLN:O	2:M:81:ASP:C	2.55	0.44
2:M:1047:HIS:CE1	2:M:1078:GLU:OE2	2.71	0.44
3:D:1273:VAL:O	3:D:1273:VAL:HG23	2.17	0.44
1:K:215:VAL:HG23	1:K:216:GLU:N	2.32	0.44
2:M:863:ASP:OD2	2:M:865:THR:CG2	2.66	0.44
3:D:702:LEU:N	3:D:702:LEU:CD1	2.81	0.44
1:B:58:ILE:CG2	1:B:59:GLU:H	2.18	0.44
1:B:25:LEU:O	1:B:25:LEU:HD23	2.17	0.44
2:C:405:ARG:NH1	2:C:563:ASN:ND2	2.65	0.44
1:K:189:ARG:CZ	1:L:155:LYS:HE2	2.48	0.44
2:C:876:VAL:H	2:C:877:PRO:HD2	1.82	0.44
3:D:1176:LYS:HA	3:D:1179:GLU:HG3	1.99	0.44
3:N:871:LYS:HZ3	3:N:897:TRP:HZ3	1.60	0.44
1:A:59:GLU:HG3	1:A:60:ASP:H	1.83	0.44
3:N:1137:ARG:N	3:N:1137:ARG:HD2	2.33	0.44
2:C:620:LEU:HD23	2:C:620:LEU:N	2.32	0.44
5:F:107:GLU:C	5:F:109:GLY:H	2.21	0.44
2:C:430:VAL:HG13	3:D:1075:HIS:ND1	2.32	0.44
3:N:658:LEU:O	3:N:661:MET:N	2.50	0.44
3:D:211:VAL:HG12	3:D:212:ARG:N	2.30	0.44
3:N:789:LEU:O	3:N:792:ILE:HG22	2.17	0.44
2:M:700:TYR:HB2	2:M:833:LEU:HB2	2.00	0.44
3:N:114:THR:C	3:N:116:LEU:H	2.20	0.44
3:D:133:ILE:HG21	3:D:454:ALA:CB	2.44	0.44
3:D:1491:THR:HG21	4:E:89:MET:CE	2.48	0.44
1:A:173:PRO:HB2	1:A:205:VAL:HG22	2.00	0.44
5:P:406:ARG:HB3	5:P:409:LYS:HE2	1.99	0.44
2:C:367:LEU:N	2:C:367:LEU:HD23	2.33	0.44
2:C:100:LEU:HG	2:C:368:THR:OG1	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:367:LEU:HB3	2:M:371:LYS:HE3	1.99	0.44
2:C:182:VAL:HG21	2:C:220:GLY:O	2.17	0.44
3:N:714:GLN:NE2	3:N:732:VAL:HG11	2.33	0.44
3:N:1106:VAL:HB	3:N:1108:ARG:CZ	2.48	0.44
2:M:952:LEU:HD22	2:M:952:LEU:N	2.32	0.44
3:D:639:LEU:HD21	3:D:731:LEU:HB2	2.00	0.44
3:D:645:PRO:O	3:D:648:MET:HB3	2.17	0.44
3:N:800:LYS:HE3	3:N:800:LYS:HB3	1.77	0.44
3:D:601:ARG:HD3	3:D:606:ILE:HG12	1.99	0.44
1:K:26:GLU:HG2	1:K:27:PRO:CA	2.47	0.44
3:D:1452:ILE:HG22	3:D:1453:ALA:N	2.33	0.44
1:K:221:HIS:HA	1:K:224:TYR:CD2	2.52	0.44
5:F:287:THR:O	5:F:289:GLU:N	2.51	0.44
1:L:13:VAL:HG12	1:L:14:ARG:N	2.33	0.44
1:A:146:ARG:HD3	1:A:146:ARG:O	2.18	0.44
1:K:64:GLU:O	1:K:76:VAL:HG22	2.18	0.44
2:M:244:PRO:CD	2:M:245:GLY:N	2.80	0.44
5:F:176:ILE:O	5:F:180:GLY:N	2.51	0.44
5:P:247:ILE:O	5:P:250:ALA:HB3	2.18	0.44
3:N:1038:LEU:N	3:N:1038:LEU:HD12	2.33	0.44
3:N:115:LEU:HD12	3:N:498:VAL:HG23	2.00	0.44
5:P:362:SER:O	5:P:363:GLU:O	2.35	0.44
3:N:1137:ARG:H	3:N:1137:ARG:HD2	1.82	0.44
2:C:118:ILE:HG23	2:C:118:ILE:O	2.18	0.44
2:C:975:TYR:N	2:C:975:TYR:CD1	2.86	0.44
2:M:520:GLU:O	2:M:522:VAL:HG23	2.17	0.44
1:K:16:GLN:O	1:K:17:GLY:C	2.56	0.44
3:D:534:ARG:HG2	5:F:312:GLN:HE22	1.83	0.44
3:N:1015:TYR:N	3:N:1016:PRO:HD3	2.32	0.44
2:C:25:SER:C	2:C:27:ARG:N	2.71	0.44
2:C:602:GLU:CA	2:C:614:ARG:HB3	2.48	0.44
3:D:396:VAL:CG1	3:D:446:VAL:N	2.81	0.44
2:C:5:ARG:HA	2:C:902:ILE:HB	1.99	0.44
3:D:674:ARG:NE	5:F:342:VAL:HG11	2.32	0.44
1:K:123:MET:C	1:K:125:PRO:HD3	2.39	0.44
1:K:18:ARG:HH12	1:K:88:ARG:NE	2.16	0.44
2:M:1037:VAL:O	2:M:1038:TRP:C	2.56	0.44
1:A:111:ALA:HB1	1:A:122:ILE:HG21	2.00	0.44
1:A:206:THR:CG2	1:A:208:LEU:HB3	2.48	0.44
3:N:774:SER:O	3:N:775:GLY:C	2.56	0.44
3:N:1451:ALA:C	3:N:1453:ALA:H	2.21	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:289:THR:HB	2:M:290:LEU:HD23	2.00	0.44
1:A:94:LEU:CD2	1:A:119:ASP:HB2	2.47	0.44
3:D:897:TRP:CZ2	3:D:902:LEU:HD11	2.53	0.44
2:M:737:LEU:O	2:M:738:ASP:C	2.56	0.44
2:M:1008:ARG:HH12	3:N:624:ASP:CG	2.20	0.44
3:D:778:LEU:HA	3:D:778:LEU:HD12	1.67	0.44
2:M:280:LYS:HB2	2:M:281:LEU:HD23	2.00	0.44
3:N:835:SER:O	3:N:838:ARG:N	2.32	0.44
3:N:1160:LEU:O	3:N:1161:GLU:O	2.36	0.44
3:N:609:GLY:HA3	3:N:613:ARG:HB3	2.00	0.44
5:P:418:LEU:O	5:P:419:ARG:C	2.55	0.44
1:L:21:GLY:HA3	1:L:207:PRO:CB	2.48	0.44
3:D:34:TYR:CD1	3:D:35:ARG:N	2.85	0.44
3:N:1486:VAL:HG22	4:O:75:PHE:HB3	1.99	0.44
2:M:1092:LEU:HA	2:M:1095:LEU:HD12	1.99	0.44
2:C:554:ASP:O	2:C:556:ASN:N	2.51	0.44
2:C:154:ARG:C	2:C:156:GLY:N	2.71	0.44
3:D:1504:GLU:O	3:D:1505:ALA:HB3	2.17	0.44
2:C:204:GLN:NE2	2:C:228:ALA:HB2	2.33	0.44
2:C:791:ARG:HH11	2:C:791:ARG:HG3	1.83	0.44
2:M:630:ARG:HH11	2:M:630:ARG:HG3	1.83	0.44
2:M:688:ILE:HD13	2:M:871:LEU:HD11	1.99	0.44
3:N:1149:LEU:O	3:N:1162:GLU:HG2	2.18	0.44
3:D:1088:THR:HA	3:D:1234:THR:HG23	1.99	0.44
2:C:165:LEU:HA	2:C:166:PRO:C	2.38	0.44
2:M:1017:THR:HG23	2:M:1017:THR:O	2.18	0.43
3:N:528:VAL:HG12	3:N:529:GLN:H	1.81	0.43
3:D:112:ILE:HG22	3:D:512:MET:SD	2.58	0.43
3:D:133:ILE:HA	3:D:455:ARG:O	2.18	0.43
3:N:218:LYS:HB3	3:N:373:PRO:O	2.18	0.43
2:M:1050:GLN:O	2:M:1051:GLU:C	2.54	0.43
3:N:1209:LEU:O	3:N:1210:SER:C	2.56	0.43
4:E:57:ASP:N	4:E:58:PRO:HD3	2.33	0.43
2:M:985:GLY:O	2:M:987:ILE:CD1	2.66	0.43
3:N:1151:ARG:HD3	3:N:1151:ARG:HA	1.88	0.43
2:M:146:VAL:HG21	2:M:281:LEU:HD21	2.00	0.43
3:D:1481:VAL:O	3:D:1482:ARG:C	2.56	0.43
2:M:653:ASP:OD1	2:M:654:LEU:N	2.50	0.43
2:M:428:ARG:NH2	2:M:447:ALA:O	2.51	0.43
3:N:74:GLU:CB	3:N:75:ARG:HH21	2.23	0.43
2:C:91:GLN:HB3	2:C:92:ALA:H	1.63	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:235:PHE:O	5:F:238:TYR:N	2.51	0.43
2:C:309:TYR:CA	2:C:312:ALA:HB3	2.44	0.43
2:M:893:ALA:HB1	2:M:897:LEU:HD22	2.00	0.43
1:B:13:VAL:HG12	1:B:14:ARG:N	2.31	0.43
3:D:753:SER:O	3:D:757:ALA:HB2	2.18	0.43
1:L:197:LEU:O	1:L:197:LEU:HD23	2.17	0.43
5:F:102:LEU:CD1	5:F:186:HIS:O	2.66	0.43
3:D:1442:ASN:O	3:D:1444:THR:N	2.51	0.43
3:D:444:VAL:HG13	3:D:444:VAL:O	2.18	0.43
1:L:170:VAL:O	1:L:170:VAL:HG23	2.18	0.43
2:M:752:GLY:H	2:M:792:VAL:HB	1.82	0.43
2:C:684:PHE:CD2	2:C:685:GLU:N	2.86	0.43
3:D:1279:GLY:O	3:D:1318:TYR:HA	2.17	0.43
5:F:297:PRO:O	5:F:299:TRP:N	2.49	0.43
5:P:227:PHE:CD1	5:P:235:PHE:HD1	2.36	0.43
5:F:221:ILE:C	5:F:223:ALA:H	2.20	0.43
2:C:672:VAL:CG2	2:C:694:LEU:HD21	2.48	0.43
3:N:37:LEU:HD11	3:N:529:GLN:NE2	2.33	0.43
3:N:32:ILE:HD12	3:N:527:MET:HG2	1.99	0.43
2:C:256:TYR:O	2:C:259:GLY:N	2.51	0.43
2:M:571:LEU:HB3	2:M:701:THR:O	2.18	0.43
3:D:130:SER:HA	3:D:572:ARG:NH1	2.33	0.43
5:P:104:ARG:O	5:P:108:GLU:HB2	2.18	0.43
3:D:1127:GLU:OE2	3:D:1128:VAL:HG23	2.18	0.43
3:N:422:ALA:HB3	3:N:427:VAL:CG1	2.47	0.43
3:N:423:ASP:OD2	5:P:175:HIS:HA	2.19	0.43
2:M:1052:MET:HE1	3:N:623:VAL:HG11	1.99	0.43
2:M:154:ARG:HH12	2:M:157:ARG:H	1.65	0.43
3:D:220:ARG:O	3:D:221:ALA:HB2	2.19	0.43
2:M:679:PHE:CD1	2:M:870:ILE:HD13	2.52	0.43
3:D:1031:ASN:HB3	3:D:1034:GLN:NE2	2.33	0.43
2:M:919:ALA:O	2:M:922:PHE:N	2.50	0.43
2:M:890:LEU:O	2:M:893:ALA:HB3	2.18	0.43
5:F:371:LEU:CD2	5:F:375:LEU:HB2	2.47	0.43
5:F:188:ILE:HG23	5:F:220:LEU:CD2	2.48	0.43
3:N:1192:LEU:CD2	3:N:1345:GLU:OE2	2.66	0.43
3:N:767:HIS:NE2	4:O:6:ILE:HG12	2.33	0.43
4:O:7:ASP:HA	4:O:10:PHE:HB2	1.99	0.43
2:M:1105:LYS:O	2:M:1106:ASP:C	2.57	0.43
3:N:1034:GLN:O	3:N:1038:LEU:HD13	2.18	0.43
4:O:32:ARG:O	4:O:34:GLY:N	2.43	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:826:TYR:H	2:C:826:TYR:HD1	1.64	0.43
1:L:151:VAL:CG2	1:L:171:PHE:HE2	2.31	0.43
1:B:146:ARG:HG3	1:B:146:ARG:O	2.17	0.43
5:P:148:LYS:HD3	5:P:148:LYS:O	2.17	0.43
3:D:403:PHE:HB3	3:D:404:GLU:H	1.68	0.43
2:C:1076:VAL:HA	2:C:1077:PRO:HD3	1.81	0.43
2:C:177:GLU:O	2:C:181:VAL:O	2.35	0.43
3:N:53:ILE:HG23	3:N:54:LYS:N	2.33	0.43
2:C:25:SER:O	2:C:26:TYR:C	2.53	0.43
3:N:783:ARG:O	3:N:784:ASP:C	2.57	0.43
3:N:792:ILE:HG23	3:N:793:THR:N	2.33	0.43
3:N:128:TYR:HB3	3:N:129:PHE:HD1	1.83	0.43
3:N:457:GLY:C	3:N:459:GLU:H	2.21	0.43
3:D:130:SER:OG	3:D:132:TYR:CE1	2.62	0.43
5:P:100:VAL:O	5:P:104:ARG:HB2	2.18	0.43
5:P:389:PHE:CD2	5:P:397:ILE:HD11	2.53	0.43
3:D:796:ARG:NH1	3:D:861:GLN:OE1	2.51	0.43
2:M:32:ALA:HB2	2:M:73:LEU:HD12	1.99	0.43
5:P:281:GLU:O	5:P:283:GLY:N	2.51	0.43
3:N:625:TYR:O	3:N:749:VAL:HG23	2.17	0.43
2:M:950:LEU:HA	2:M:950:LEU:HD22	1.89	0.43
2:M:101:ILE:HD13	2:M:107:LEU:HB3	2.00	0.43
3:D:733:CYS:O	3:D:736:PHE:O	2.36	0.43
3:N:1271:LYS:HZ3	3:N:1273:VAL:HA	1.76	0.43
1:B:156:HIS:HD2	1:B:156:HIS:H	1.65	0.43
2:M:547:ILE:O	2:M:548:PRO:O	2.35	0.43
3:D:695:ILE:HG22	3:D:696:HIS:N	2.33	0.43
3:D:807:ALA:HB1	3:D:833:GLU:OE1	2.18	0.43
3:D:629:SER:HB3	3:D:726:ILE:CG1	2.49	0.43
2:C:211:LEU:CD1	2:C:308:ARG:HB2	2.48	0.43
1:A:221:HIS:HA	1:A:224:TYR:CE2	2.54	0.43
2:M:734:LEU:O	2:M:735:ARG:C	2.57	0.43
5:P:274:THR:HG21	5:P:295:MET:HE3	1.98	0.43
5:F:409:LYS:HE3	5:F:409:LYS:HB2	1.87	0.43
2:M:63:GLY:HA3	2:M:103:LYS:CD	2.48	0.43
3:D:1167:SER:C	3:D:1169:ASP:H	2.21	0.43
1:L:181:VAL:CG1	1:L:193:ASP:HB3	2.48	0.43
3:N:633:VAL:HG22	3:N:635:PRO:CD	2.49	0.43
1:A:222:LEU:HD13	1:A:222:LEU:HA	1.89	0.43
1:L:157:GLY:O	1:L:158:ILE:O	2.37	0.43
2:M:501:THR:HG22	2:M:513:VAL:CG1	2.49	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:166:GLN:HB3	3:D:395:VAL:HG23	2.00	0.43
1:L:171:PHE:O	1:L:172:SER:C	2.55	0.43
3:N:997:THR:O	3:N:1001:GLU:HB2	2.19	0.43
3:D:1094:LEU:HG	3:D:1094:LEU:O	2.09	0.43
5:F:164:LYS:CB	5:F:171:LYS:HZ1	2.29	0.43
3:D:213:VAL:HA	3:D:391:ALA:HA	2.00	0.43
2:M:184:MET:SD	2:M:186:VAL:HG13	2.58	0.43
3:D:1464:GLU:HA	3:D:1467:ILE:HD12	1.99	0.43
3:D:790:TYR:CD2	3:D:1026:SER:HB3	2.53	0.43
3:N:572:ARG:O	3:N:575:GLN:HB3	2.19	0.43
3:D:130:SER:HA	3:D:572:ARG:HH12	1.83	0.43
4:E:63:TRP:O	4:E:66:LYS:N	2.51	0.43
2:C:1070:ILE:O	2:C:1071:ILE:C	2.56	0.43
3:D:1128:VAL:O	3:D:1129:THR:HG22	2.19	0.43
5:P:406:ARG:CA	5:P:409:LYS:HG2	2.33	0.43
1:A:92:PRO:C	1:A:94:LEU:H	2.19	0.43
5:P:358:LEU:CD1	5:P:370:LYS:HD2	2.47	0.43
3:D:570:GLU:HB2	5:F:214:GLN:HE22	1.74	0.43
2:M:194:VAL:HG13	2:M:221:LEU:CD1	2.49	0.43
1:B:7:LYS:CE	1:B:186:LEU:HD22	2.46	0.43
2:C:920:GLN:CG	2:C:920:GLN:O	2.66	0.43
2:C:205:GLU:HA	2:C:209:ARG:NH1	2.33	0.43
3:D:1183:ILE:HG22	3:D:1184:GLN:H	1.84	0.43
2:M:939:ARG:HH11	2:M:981:GLU:HG2	1.83	0.43
3:N:846:PRO:O	3:N:850:LEU:HD13	2.19	0.43
2:M:384:GLU:HG3	2:M:388:ARG:HH21	1.83	0.43
5:P:169:GLU:CD	5:P:169:GLU:H	2.22	0.43
1:B:76:VAL:HA	1:B:79:ILE:CG1	2.48	0.43
2:M:745:ILE:HD13	2:M:745:ILE:N	2.33	0.43
2:M:151:ASP:O	2:M:152:PRO:O	2.36	0.43
3:D:683:ILE:HG23	3:D:687:VAL:HG21	2.01	0.43
2:M:64:LEU:HB2	2:M:359:MET:CE	2.48	0.43
3:D:198:ARG:HG3	3:D:198:ARG:H	1.54	0.43
3:N:966:GLU:HA	3:N:969:ARG:CD	2.49	0.43
2:C:409:ARG:HG3	2:C:454:SER:OG	2.19	0.43
3:D:707:THR:C	3:D:708:LEU:HD23	2.38	0.43
4:O:57:ASP:N	4:O:58:PRO:HD3	2.34	0.43
2:M:139:GLN:HB3	2:M:334:ARG:CG	2.49	0.43
3:D:1459:LEU:CD1	3:D:1468:LEU:HD12	2.48	0.43
2:C:605:LYS:HE2	2:C:610:ARG:NH2	2.32	0.43
3:N:387:LEU:HD21	5:P:97:GLU:CG	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:P:94:LEU:HB2	5:P:98:GLU:CG	2.49	0.43
2:M:170:PRO:CD	2:M:263:ASP:HB3	2.48	0.43
1:B:206:THR:O	1:B:209:GLU:HB2	2.18	0.43
2:C:1013:TYR:CE1	2:C:1063:ARG:NH1	2.86	0.43
3:N:774:SER:O	3:N:776:GLU:N	2.52	0.43
5:F:388:ALA:HB3	5:F:397:ILE:HD13	2.00	0.43
1:A:62:LEU:CD1	1:A:62:LEU:N	2.77	0.43
3:N:441:ARG:C	3:N:443:VAL:N	2.71	0.43
3:D:730:PRO:HG2	3:D:731:LEU:H	1.82	0.43
2:M:14:PRO:O	2:M:15:LEU:O	2.36	0.43
3:N:841:TYR:HB3	3:N:843:PHE:CE1	2.53	0.43
3:N:60:CYS:SG	3:N:62:LYS:HB2	2.59	0.43
3:N:928:ALA:O	3:N:929:ARG:C	2.55	0.43
3:D:919:PHE:C	3:D:919:PHE:CD2	2.92	0.43
2:C:1089:VAL:HG21	2:C:1111:ILE:CD1	2.49	0.43
2:C:321:GLU:O	2:C:322:VAL:C	2.57	0.43
2:C:760:SER:O	2:C:785:VAL:CG2	2.66	0.43
5:P:278:LEU:HB2	5:P:286:PRO:HG2	2.00	0.43
1:K:163:ASN:HD22	1:K:163:ASN:HA	1.65	0.43
1:A:75:VAL:O	1:A:75:VAL:CG1	2.65	0.43
2:C:957:LYS:HG2	2:C:961:GLU:CB	2.48	0.43
2:C:641:PRO:HA	2:C:656:ALA:CB	2.48	0.43
3:D:1285:GLU:O	3:D:1285:GLU:HG2	2.19	0.43
2:C:679:PHE:HA	3:D:943:THR:HG22	2.00	0.43
3:D:141:ILE:HG22	3:D:142:LEU:H	1.83	0.43
2:M:1055:LEU:HG	2:M:1079:PRO:HG3	2.00	0.43
2:C:328:LEU:CD1	2:C:328:LEU:N	2.81	0.43
2:C:1016:ILE:HD11	5:F:330:GLY:O	2.18	0.43
1:A:25:LEU:C	1:A:25:LEU:HD23	2.38	0.43
3:N:569:ASN:O	3:N:573:MET:HG3	2.18	0.43
1:A:38:ASN:HB3	1:A:39:PRO:CD	2.49	0.43
1:B:32:PHE:HA	1:B:35:THR:HB	2.00	0.43
3:N:179:VAL:O	3:N:183:GLU:HB2	2.18	0.43
1:K:121:GLU:HG2	1:K:123:MET:SD	2.58	0.43
2:M:328:LEU:HA	2:M:328:LEU:HD12	1.77	0.43
3:N:1451:ALA:O	3:N:1454:GLY:N	2.45	0.43
3:D:163:TYR:HE2	3:D:167:GLU:CD	2.21	0.43
3:N:1394:VAL:O	3:N:1398:TRP:CD1	2.71	0.43
3:D:1117:TYR:HE2	3:D:1151:ARG:HH11	1.65	0.43
1:A:119:ASP:OD1	1:A:119:ASP:N	2.51	0.43
1:A:97:VAL:CG1	1:A:98:THR:N	2.81	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:43:ILE:HG22	1:K:217:ILE:HD12	2.00	0.43
2:M:1052:MET:SD	2:M:1056:LYS:HD3	2.58	0.43
3:N:626:SER:O	3:N:652:LEU:HD11	2.18	0.43
3:N:631:ILE:HG12	3:N:743:ASP:O	2.18	0.43
2:M:985:GLY:HA2	2:M:986:PRO:HD3	1.81	0.43
3:D:601:ARG:HB2	3:D:601:ARG:HH11	1.80	0.43
3:N:1440:PHE:O	3:N:1443:THR:HG23	2.19	0.43
3:D:8:VAL:CG1	3:D:9:ARG:N	2.81	0.43
2:C:1089:VAL:O	2:C:1093:GLN:HB2	2.18	0.43
2:C:946:ARG:CZ	2:C:984:GLU:HB2	2.49	0.43
1:B:228:PRO:O	1:B:229:GLN:HB2	2.18	0.43
1:A:216:GLU:O	1:A:219:ARG:N	2.52	0.43
5:F:371:LEU:HD22	5:F:375:LEU:HB2	2.00	0.43
3:D:1259:VAL:HG21	3:D:1356:TYR:CE1	2.53	0.43
2:M:588:VAL:HG23	2:M:596:TYR:OH	2.18	0.43
3:N:1264:GLU:OE2	3:N:1425:THR:HB	2.18	0.43
2:C:707:ARG:HD2	2:C:826:TYR:CZ	2.52	0.43
1:K:172:SER:HA	1:K:173:PRO:HD3	1.80	0.43
2:C:35:PRO:C	2:C:37:GLU:N	2.72	0.43
1:A:134:GLU:H	1:A:134:GLU:HG2	1.47	0.43
3:N:135:LEU:HD23	3:N:135:LEU:C	2.39	0.43
3:D:1299:PHE:N	3:D:1299:PHE:CD2	2.86	0.43
3:D:666:ILE:O	3:D:666:ILE:HG22	2.19	0.43
3:N:1223:ILE:O	3:N:1224:VAL:C	2.55	0.43
3:D:1082:ALA:O	3:D:1083:ASP:C	2.56	0.43
1:B:38:ASN:O	1:B:41:ARG:HB3	2.18	0.43
1:L:79:ILE:HG21	1:L:165:ILE:HD11	2.01	0.43
3:N:559:ALA:C	3:N:561:GLY:N	2.72	0.43
2:C:859:PRO:HD2	2:C:870:ILE:HD11	2.00	0.43
3:D:25:GLU:OE1	3:D:26:VAL:C	2.57	0.43
3:N:148:GLU:O	3:N:149:LYS:C	2.56	0.43
3:D:422:ALA:CB	3:D:427:VAL:HG22	2.33	0.43
3:N:100:ALA:HB3	3:N:128:TYR:HE2	1.84	0.43
5:F:210:LEU:O	5:F:213:ILE:N	2.51	0.43
2:C:9:ILE:CD1	2:C:907:ASP:HB3	2.49	0.43
3:N:215:TYR:OH	5:P:101:GLU:HB2	2.18	0.43
3:N:226:PRO:O	3:N:227:LEU:C	2.56	0.43
1:A:18:ARG:HH11	1:A:123:MET:HE1	1.83	0.43
2:M:473:ARG:HG3	2:M:474:VAL:N	2.33	0.43
3:N:1045:MET:HG2	3:N:1073:SER:CA	2.41	0.43
3:D:1091:SER:O	3:D:1092:GLY:C	2.56	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:196:LEU:HD23	2:M:200:LEU:HD11	2.01	0.43
3:N:1399:ASP:O	3:N:1403:LEU:HD12	2.19	0.43
3:D:368:VAL:CG1	3:D:369:ALA:N	2.81	0.43
3:N:834:THR:OG1	3:N:839:LEU:HD21	2.19	0.43
3:D:28:LYS:HA	3:D:29:PRO:HD3	1.73	0.43
3:D:168:THR:HG22	3:D:169:TYR:N	2.33	0.43
2:C:630:ARG:HD3	2:C:705:ILE:HB	2.00	0.43
2:M:958:THR:O	2:M:961:GLU:N	2.51	0.43
5:F:107:GLU:C	5:F:109:GLY:N	2.72	0.43
2:C:754:ILE:N	2:C:754:ILE:HD13	2.33	0.43
1:K:198:ARG:HD2	2:M:934:PHE:CZ	2.54	0.43
1:K:146:ARG:HH21	1:K:147:GLY:HA2	1.84	0.43
3:N:670:VAL:HG12	3:N:674:ARG:HG3	2.01	0.43
3:N:676:MET:O	3:N:676:MET:SD	2.76	0.43
3:N:689:ASP:O	3:N:693:GLU:HB2	2.19	0.43
3:D:211:VAL:HG13	3:D:393:ILE:CG2	2.49	0.43
2:C:432:ARG:HG3	2:C:432:ARG:HH11	1.84	0.43
3:D:1381:VAL:HG12	3:D:1382:THR:N	2.33	0.43
3:N:558:LEU:CD2	5:P:145:PRO:HB3	2.41	0.43
4:E:38:THR:CB	4:E:63:TRP:HZ3	2.31	0.43
3:D:989:TYR:CE2	3:D:993:LEU:HD11	2.53	0.43
3:N:10:ILE:HG13	3:N:1434:TRP:CZ2	2.54	0.43
3:N:628:ARG:O	3:N:629:SER:CB	2.67	0.43
3:D:771:SER:HB2	3:D:778:LEU:HD13	2.01	0.43
3:N:1101:VAL:CG1	3:N:1424:VAL:HG23	2.38	0.43
2:M:892:LEU:HD13	2:M:989:VAL:O	2.19	0.43
3:D:919:PHE:C	3:D:919:PHE:HD2	2.22	0.43
1:L:111:ALA:HB3	1:L:124:ASN:O	2.18	0.43
3:N:97:THR:HB	3:N:571:LYS:HG3	2.00	0.43
1:L:176:ARG:HG2	1:L:200:TRP:CB	2.49	0.43
3:D:72:VAL:HG12	3:D:73:CYS:H	1.82	0.43
3:N:536:ALA:CB	5:P:315:VAL:CG1	2.95	0.43
5:F:282:LEU:CD1	5:F:284:ARG:HB2	2.46	0.43
1:B:183:ASP:HA	1:B:192:LEU:O	2.18	0.43
2:C:734:LEU:O	2:C:735:ARG:C	2.57	0.43
1:A:56:VAL:HG21	1:A:79:ILE:HG22	1.99	0.43
2:M:767:PRO:O	2:M:768:THR:HG23	2.18	0.43
5:P:340:SER:O	5:P:341:PRO:C	2.57	0.43
2:M:1106:ASP:OD1	3:N:7:LYS:NZ	2.41	0.43
1:B:73:GLU:HA	1:B:77:GLU:OE2	2.19	0.43
2:M:64:LEU:HD13	2:M:359:MET:HG3	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:32:ILE:HG23	3:N:38:LYS:O	2.19	0.43
2:C:549:PHE:CZ	2:C:886:LEU:HB3	2.54	0.43
3:D:1049:SER:CB	3:D:1051:GLU:HG2	2.49	0.43
4:O:40:LEU:HD21	4:O:67:GLU:HA	1.99	0.43
3:N:1166:LEU:HB2	3:N:1170:ASP:CB	2.48	0.43
3:D:173:PRO:O	3:D:174:GLY:O	2.37	0.43
3:D:1380:GLU:HB3	3:D:1418:LYS:HB2	2.00	0.43
3:D:130:SER:OG	3:D:131:LYS:N	2.52	0.43
3:D:545:ARG:O	3:D:546:ARG:C	2.57	0.43
3:D:543:LEU:HD13	3:D:581:LEU:HA	1.99	0.43
3:D:1035:ILE:HA	3:D:1038:LEU:HD12	1.99	0.43
1:K:57:TYR:O	1:K:140:MET:HA	2.19	0.43
3:N:1215:VAL:CG2	3:N:1216:SER:N	2.81	0.43
3:N:754:PHE:HA	4:O:24:ALA:HB1	2.00	0.43
3:D:138:LYS:HE3	3:D:138:LYS:N	2.34	0.43
3:D:148:GLU:HB3	3:D:151:GLN:CG	2.49	0.43
3:D:841:TYR:HB3	3:D:843:PHE:CE2	2.53	0.43
3:N:648:MET:O	3:N:649:ALA:C	2.57	0.43
1:A:185:ARG:O	1:A:186:LEU:HD12	2.19	0.43
3:N:836:VAL:HG13	3:N:837:GLY:H	1.84	0.43
3:D:1478:SER:O	3:D:1479:ASP:C	2.56	0.43
2:M:374:ASN:O	2:M:374:ASN:CG	2.57	0.43
2:M:710:ILE:HD11	2:M:758:ARG:HB2	2.01	0.43
5:P:416:ARG:NH2	5:P:419:ARG:NH1	2.67	0.43
3:N:1058:ARG:CG	3:N:1058:ARG:NH1	2.80	0.43
4:O:63:TRP:O	4:O:64:ALA:C	2.57	0.43
2:C:767:PRO:O	2:C:768:THR:OG1	2.37	0.43
2:C:352:ALA:HA	2:C:355:VAL:CG1	2.49	0.43
3:D:896:ALA:O	3:D:899:LEU:CD1	2.67	0.43
3:N:471:GLU:OE2	3:N:503:LEU:HD21	2.19	0.43
1:K:63:HIS:CD2	1:K:65:PHE:H	2.35	0.43
2:M:917:LEU:N	2:M:917:LEU:HD23	2.34	0.43
3:D:1485:GLN:HE22	4:E:80:VAL:H	1.66	0.43
2:M:345:ARG:CZ	2:M:345:ARG:HB2	2.49	0.43
3:D:1405:GLU:O	3:D:1412:LYS:HA	2.18	0.43
3:N:101:HIS:HD2	3:N:582:LEU:HD13	1.81	0.43
3:D:1275:SER:HB2	3:D:1325:LEU:HD11	2.00	0.43
1:K:146:ARG:HE	1:K:147:GLY:N	2.17	0.43
2:M:283:ILE:HG22	2:M:283:ILE:O	2.19	0.43
3:N:1004:THR:OG1	3:N:1036:ARG:HD2	2.19	0.43
2:C:672:VAL:HG22	2:C:868:ASP:CB	2.49	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:443:VAL:HG12	3:D:445:ARG:HD2	2.00	0.43
3:D:1051:GLU:HG2	3:D:1051:GLU:H	1.61	0.43
2:C:1118:LYS:HA	3:D:23:TYR:CE1	2.53	0.43
3:D:49:ILE:HG22	3:D:50:PHE:N	2.33	0.43
3:N:1488:ASP:CB	3:N:1490:LYS:HG3	2.49	0.43
3:N:789:LEU:HA	3:N:789:LEU:HD23	1.86	0.43
2:M:174:LEU:CD2	2:M:184:MET:HG2	2.49	0.43
2:M:188:LYS:CD	2:M:189:ARG:N	2.73	0.43
2:M:691:SER:OG	2:M:693:GLU:HB3	2.19	0.43
3:N:119:SER:C	3:N:121:THR:H	2.23	0.43
3:N:217:LYS:N	3:N:217:LYS:HD2	2.33	0.43
2:C:660:ALA:O	2:C:667:ALA:HB3	2.19	0.43
2:C:176:VAL:HG12	2:C:182:VAL:HG13	2.00	0.43
3:N:169:TYR:O	3:N:169:TYR:CG	2.71	0.43
5:F:140:ARG:HG3	5:F:141:VAL:H	1.84	0.43
3:D:864:VAL:CG1	3:D:865:THR:H	2.30	0.43
2:M:545:ASN:HB3	2:M:583:LEU:HD11	2.00	0.43
3:D:1478:SER:OG	3:D:1480:PHE:HB3	2.19	0.43
4:E:18:ARG:O	4:E:19:LEU:C	2.57	0.43
1:B:18:ARG:O	1:B:201:THR:HB	2.19	0.43
3:D:54:LYS:O	3:D:55:ASP:C	2.57	0.43
3:D:55:ASP:CB	3:D:82:LYS:HG2	2.49	0.43
1:L:107:LYS:HE2	1:L:109:VAL:HG22	2.00	0.43
2:M:397:GLU:CG	2:M:632:ASN:H	2.32	0.43
2:C:145:GLY:O	2:C:163:ILE:HG22	2.19	0.43
2:C:725:ASP:OD1	2:C:783:ARG:NH1	2.52	0.43
1:L:217:ILE:O	1:L:221:HIS:HD2	2.01	0.43
2:C:247:PRO:HA	2:C:248:PRO:HD3	1.92	0.43
3:D:1306:PRO:O	3:D:1308:GLU:N	2.51	0.43
4:O:5:GLY:O	4:O:9:LEU:HG	2.19	0.43
3:D:676:MET:CE	3:D:684:LYS:HG3	2.49	0.43
2:M:907:ASP:OD1	2:M:907:ASP:O	2.37	0.43
1:A:10:VAL:O	1:A:12:THR:HG23	2.18	0.43
5:P:229:TYR:C	5:P:231:ARG:H	2.22	0.43
3:N:627:GLY:O	3:N:746:ALA:HA	2.19	0.43
2:M:764:GLU:O	2:M:765:SER:OG	2.32	0.43
3:D:1062:ARG:HD3	3:D:1062:ARG:C	2.39	0.42
2:C:285:LEU:HD21	2:C:289:THR:HA	1.99	0.42
3:D:387:LEU:HB3	3:D:388:HIS:H	1.50	0.42
3:D:1435:LEU:HB2	3:D:1457:ASP:OD2	2.19	0.42
3:D:907:GLU:HG2	3:D:1027:GLY:H	1.83	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:907:GLU:O	3:D:911:LEU:HD22	2.19	0.42
3:D:425:GLY:O	3:D:426:LYS:C	2.57	0.42
3:D:950:GLY:N	3:D:953:ASP:OD1	2.45	0.42
1:A:34:VAL:HB	1:B:42:ARG:CZ	2.49	0.42
2:C:1070:ILE:HD13	3:D:656:PHE:CE1	2.54	0.42
3:N:462:GLN:O	3:N:463:GLN:C	2.57	0.42
2:C:100:LEU:HD21	2:C:367:LEU:HG	2.00	0.42
1:A:94:LEU:C	1:A:96:THR:H	2.22	0.42
2:M:886:LEU:O	2:M:889:HIS:N	2.52	0.42
5:P:393:THR:HG23	5:P:394:ARG:HD2	2.01	0.42
3:D:843:PHE:CE1	3:D:849:ALA:HA	2.53	0.42
2:M:943:VAL:O	2:M:946:ARG:N	2.52	0.42
2:M:310:LEU:O	2:M:314:THR:HG23	2.18	0.42
2:C:1008:ARG:NH2	2:C:1021:LEU:H	2.16	0.42
1:K:26:GLU:CG	1:K:27:PRO:HA	2.48	0.42
5:P:395:GLU:O	5:P:398:ARG:CD	2.67	0.42
5:F:251:ILE:O	5:F:255:ALA:CB	2.67	0.42
3:N:1431:THR:HB	3:N:1432:LYS:HD2	2.00	0.42
3:N:1322:GLY:O	3:N:1323:GLN:C	2.57	0.42
2:M:226:VAL:HG13	2:M:227:PHE:H	1.84	0.42
5:F:358:LEU:CD1	5:F:370:LYS:HZ1	2.31	0.42
3:N:1155:VAL:HG21	3:N:1183:ILE:CD1	2.49	0.42
1:B:189:ARG:HD2	1:B:189:ARG:N	2.32	0.42
2:C:542:VAL:O	2:C:543:ASN:C	2.57	0.42
2:C:721:ARG:O	2:C:758:ARG:HG3	2.19	0.42
3:D:739:ASP:OD2	3:D:741:ASP:OD2	2.37	0.42
1:L:100:LEU:CB	1:L:115:LEU:HD11	2.48	0.42
2:C:723:THR:OG1	2:C:725:ASP:OD2	2.33	0.42
3:N:1435:LEU:C	3:N:1437:ALA:H	2.23	0.42
2:C:544:THR:HA	2:C:547:ILE:HD11	2.01	0.42
1:L:6:LEU:C	1:L:8:ALA:H	2.22	0.42
3:D:416:ALA:HB3	3:D:417:PRO:HD3	2.00	0.42
2:M:134:ARG:HB3	2:M:134:ARG:HH11	1.84	0.42
3:D:433:GLY:H	3:D:448:GLU:C	2.22	0.42
2:M:1060:ILE:HG22	2:M:1061:GLU:N	2.34	0.42
3:N:82:LYS:C	3:N:84:ILE:N	2.72	0.42
2:C:20:GLU:O	2:C:24:GLU:HB2	2.18	0.42
4:O:36:LYS:C	4:O:38:THR:N	2.71	0.42
4:O:47:LYS:HA	4:O:54:LEU:HB3	2.01	0.42
3:D:1277:ILE:CG2	3:D:1278:ASP:H	1.96	0.42
3:D:671:LYS:O	3:D:674:ARG:HB2	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:1033:GLY:O	2:M:1036:GLU:OE1	2.36	0.42
2:M:1049:LEU:O	2:M:1053:LEU:CD2	2.61	0.42
2:M:1053:LEU:HA	2:M:1053:LEU:HD13	1.86	0.42
1:A:124:ASN:N	1:A:125:PRO:CD	2.82	0.42
1:A:86:VAL:HG12	1:A:124:ASN:ND2	2.26	0.42
4:E:70:THR:O	4:E:72:ARG:N	2.47	0.42
5:P:84:TYR:O	5:P:88:ILE:HG13	2.18	0.42
2:M:250:ARG:O	2:M:251:ASP:C	2.57	0.42
5:F:140:ARG:HG3	5:F:140:ARG:NH1	2.34	0.42
1:A:26:GLU:HB2	1:A:27:PRO:HA	2.01	0.42
2:M:580:MET:CE	2:M:584:GLU:HG3	2.50	0.42
3:N:245:LEU:HD12	3:N:249:TYR:CB	2.45	0.42
3:N:564:GLU:HG2	3:N:565:ILE:H	1.84	0.42
5:P:316:SER:O	5:P:318:GLU:N	2.52	0.42
5:P:416:ARG:HB3	5:P:419:ARG:HB2	2.01	0.42
3:D:54:LYS:O	3:D:55:ASP:O	2.37	0.42
2:M:939:ARG:H	2:M:939:ARG:HG2	1.67	0.42
2:M:208:ALA:HB2	2:M:222:MET:SD	2.58	0.42
3:D:166:GLN:HB3	3:D:395:VAL:CG2	2.49	0.42
2:C:351:LEU:HD11	2:C:373:VAL:HG13	2.01	0.42
3:D:1239:ARG:HB3	3:D:1240:THR:H	1.55	0.42
3:N:685:ASP:O	3:N:687:VAL:N	2.52	0.42
3:D:419:ASP:O	3:D:421:LEU:N	2.53	0.42
2:C:139:GLN:HG2	2:C:140:ILE:N	2.34	0.42
4:O:54:LEU:O	4:O:54:LEU:CD2	2.67	0.42
3:N:1166:LEU:CD2	3:N:1166:LEU:H	2.32	0.42
3:N:209:ARG:HH21	3:N:397:LYS:HG3	1.81	0.42
3:N:941:PHE:O	3:N:945:SER:OG	2.26	0.42
3:N:126:VAL:HG11	3:N:152:LEU:HD13	2.00	0.42
1:A:39:PRO:CG	1:B:39:PRO:HG3	2.44	0.42
5:P:188:ILE:CD1	5:P:224:VAL:HG21	2.50	0.42
2:M:946:ARG:CD	2:M:984:GLU:HB2	2.49	0.42
2:C:395:LYS:O	2:C:633:GLN:NE2	2.51	0.42
1:L:103:ALA:N	1:L:138:LEU:O	2.45	0.42
2:M:720:GLU:HA	2:M:759:THR:O	2.19	0.42
3:N:30:GLU:OE2	3:N:41:ARG:NH2	2.52	0.42
3:N:95:LEU:HA	3:N:551:ASN:HD21	1.85	0.42
1:A:44:LEU:HD22	1:A:199:ILE:HG12	2.01	0.42
1:B:3:ASP:HB3	1:B:4:SER:H	1.48	0.42
1:L:176:ARG:NH1	3:N:884:ARG:HD3	2.31	0.42
3:D:1031:ASN:OD1	3:D:1033:GLN:N	2.50	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:196:VAL:CG1	3:N:202:VAL:HG13	2.49	0.42
3:N:76:CYS:O	3:N:78:VAL:N	2.52	0.42
2:C:198:ARG:C	2:C:200:LEU:H	2.22	0.42
3:N:1158:VAL:CG1	3:N:1159:ARG:H	2.26	0.42
1:B:94:LEU:N	1:B:94:LEU:HD12	2.35	0.42
2:M:897:LEU:CB	2:M:899:GLN:HE21	2.30	0.42
2:C:835:VAL:HA	2:C:849:VAL:HG12	2.01	0.42
3:N:1435:LEU:C	3:N:1437:ALA:N	2.73	0.42
5:P:372:ARG:HB3	5:P:378:GLY:O	2.18	0.42
3:N:240:GLU:HG3	3:N:240:GLU:O	2.19	0.42
5:P:305:GLU:HG2	5:P:309:LYS:HE3	2.01	0.42
2:M:341:THR:O	2:M:345:ARG:HB2	2.19	0.42
2:M:517:ARG:O	2:M:519:GLY:N	2.52	0.42
2:C:317:VAL:HG13	2:C:319:GLY:O	2.19	0.42
5:F:229:TYR:CE1	5:F:230:LYS:HG3	2.54	0.42
3:D:719:VAL:O	3:D:720:LEU:C	2.57	0.42
2:C:297:GLU:O	2:C:297:GLU:OE1	2.37	0.42
2:M:1085:PHE:HD2	2:M:1088:LEU:HD23	1.84	0.42
3:D:520:LEU:HD23	3:D:540:LEU:HD13	2.01	0.42
1:A:14:ARG:HH12	1:A:24:VAL:CG2	2.33	0.42
3:D:171:LEU:HA	3:D:172:PRO:HD3	1.71	0.42
3:D:907:GLU:CG	3:D:908:LYS:N	2.53	0.42
2:C:983:ILE:O	2:C:985:GLY:N	2.52	0.42
3:D:145:VAL:HG22	3:D:146:PRO:CD	2.22	0.42
3:N:1262:LEU:HD23	3:N:1352:ILE:CG1	2.46	0.42
3:D:396:VAL:CG1	3:D:446:VAL:H	2.32	0.42
3:N:457:GLY:O	3:N:459:GLU:N	2.53	0.42
1:B:124:ASN:N	1:B:125:PRO:HD3	2.34	0.42
3:N:217:LYS:H	3:N:217:LYS:CD	2.32	0.42
3:N:224:ARG:HD2	3:N:225:LEU:N	2.35	0.42
3:D:1128:VAL:O	3:D:1129:THR:CG2	2.67	0.42
2:M:351:LEU:O	2:M:355:VAL:HG12	2.20	0.42
2:M:249:LYS:O	2:M:251:ASP:N	2.52	0.42
5:P:365:GLU:HA	5:P:368:VAL:HG23	2.01	0.42
2:M:1005:MET:HB2	3:N:629:SER:HB2	2.01	0.42
3:N:700:VAL:CG2	3:N:718:PRO:HG3	2.46	0.42
2:M:157:ARG:HG3	2:M:157:ARG:HH11	1.85	0.42
2:M:311:PHE:HA	2:M:314:THR:OG1	2.19	0.42
1:A:184:THR:HG22	1:A:192:LEU:O	2.19	0.42
3:N:496:LEU:O	3:N:500:ARG:HG2	2.18	0.42
3:D:598:ARG:NH1	3:D:598:ARG:HG2	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1474:ALA:O	3:D:1475:GLY:C	2.57	0.42
2:C:496:ILE:HA	2:C:531:PHE:O	2.19	0.42
3:D:533:GLY:CA	5:F:309:LYS:HB3	2.44	0.42
1:L:206:THR:HG22	1:L:209:GLU:CD	2.39	0.42
2:M:244:PRO:CG	2:M:245:GLY:N	2.82	0.42
5:F:108:GLU:HG3	5:F:176:ILE:HG21	2.01	0.42
2:C:420:ARG:HB2	2:C:421:GLU:H	1.60	0.42
5:P:164:LYS:C	5:P:166:LEU:H	2.23	0.42
2:M:526:PRO:HD2	2:M:527:GLU:OE2	2.18	0.42
2:C:544:THR:O	2:C:547:ILE:HD12	2.19	0.42
2:M:630:ARG:CG	2:M:630:ARG:HH11	2.32	0.42
4:O:25:LYS:O	4:O:29:GLN:HG2	2.19	0.42
2:C:3:ILE:CD1	2:C:900:ARG:HG3	2.49	0.42
2:M:1015:LEU:CD1	2:M:1016:ILE:HG23	2.49	0.42
2:C:71:TYR:CD2	2:C:71:TYR:N	2.86	0.42
3:D:1294:VAL:O	3:D:1300:SER:HA	2.19	0.42
3:N:783:ARG:O	3:N:785:ILE:N	2.52	0.42
3:N:789:LEU:C	3:N:792:ILE:HG22	2.38	0.42
3:N:133:ILE:HD12	3:N:158:TYR:CD2	2.55	0.42
3:D:116:LEU:HA	3:D:116:LEU:HD23	1.94	0.42
3:D:128:TYR:CE1	3:D:461:ILE:HG13	2.54	0.42
5:P:101:GLU:O	5:P:105:LYS:HG3	2.19	0.42
1:K:143:ARG:HG2	1:K:144:VAL:H	1.84	0.42
2:M:1053:LEU:N	2:M:1053:LEU:HD22	2.35	0.42
3:N:438:ASP:O	3:N:441:ARG:O	2.37	0.42
3:D:218:LYS:HD3	3:D:372:ASP:N	2.32	0.42
3:D:701:LEU:O	3:D:747:VAL:HA	2.19	0.42
3:D:368:VAL:CG1	3:D:369:ALA:H	2.28	0.42
2:M:627:ARG:CZ	2:M:627:ARG:HB3	2.49	0.42
2:C:455:LEU:HD13	2:C:456:ALA:O	2.19	0.42
2:C:964:LYS:C	2:C:968:LEU:HD12	2.40	0.42
2:C:918:LEU:HD23	2:C:968:LEU:O	2.19	0.42
5:F:205:ARG:HH11	5:F:251:ILE:HG21	1.85	0.42
1:L:137:ARG:NH1	1:L:139:ASN:HB3	2.28	0.42
3:D:756:GLN:O	3:D:760:ARG:HG2	2.19	0.42
1:B:7:LYS:CE	1:B:186:LEU:HD13	2.50	0.42
3:D:1065:LEU:HD11	3:D:1069:GLU:HB3	2.00	0.42
2:M:893:ALA:O	2:M:895:TYR:N	2.53	0.42
2:M:313:LEU:C	2:M:315:ALA:N	2.73	0.42
2:C:734:LEU:O	2:C:737:LEU:N	2.50	0.42
2:C:246:ASP:HA	2:C:247:PRO:HD3	1.77	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:27:ARG:HB3	2:M:27:ARG:NH1	2.34	0.42
5:F:221:ILE:C	5:F:223:ALA:N	2.72	0.42
2:M:246:ASP:HA	2:M:247:PRO:HD3	1.81	0.42
3:N:653:PHE:CE2	3:N:695:ILE:CD1	3.03	0.42
2:M:872:ASN:HA	2:M:873:PRO:HD3	1.87	0.42
2:M:187:ASN:HB3	2:M:188:LYS:H	1.66	0.42
2:C:903:SER:O	2:C:904:PRO:O	2.37	0.42
1:K:85:LEU:HD11	1:K:87:VAL:HG12	2.02	0.42
1:A:206:THR:HG22	1:A:208:LEU:H	1.82	0.42
5:P:171:LYS:O	5:P:174:LEU:N	2.49	0.42
1:A:97:VAL:HG11	1:A:120:VAL:HG21	2.02	0.42
5:F:141:VAL:O	5:F:145:PRO:CG	2.59	0.42
1:K:44:LEU:HD13	1:K:177:VAL:HG21	2.00	0.42
2:C:524:VAL:CG2	2:C:525:SER:H	2.17	0.42
3:D:1280:VAL:CG1	3:D:1281:VAL:H	2.17	0.42
2:M:865:THR:HA	2:M:866:PRO:HD3	1.76	0.42
3:D:646:LYS:O	3:D:649:ALA:N	2.53	0.42
3:N:799:LYS:O	3:N:799:LYS:CD	2.57	0.42
5:F:416:ARG:CZ	5:F:419:ARG:CG	2.98	0.42
2:C:438:ILE:CG2	2:C:453:THR:OG1	2.68	0.42
3:N:1175:ILE:O	3:N:1175:ILE:HG22	2.20	0.42
3:N:989:TYR:O	3:N:992:ILE:HB	2.18	0.42
1:A:102:LYS:HA	1:A:139:ASN:HA	2.01	0.42
5:F:287:THR:C	5:F:289:GLU:N	2.72	0.42
3:N:233:LYS:O	3:N:238:PRO:HD3	2.19	0.42
2:C:497:ALA:N	2:C:531:PHE:O	2.41	0.42
3:D:32:ILE:HD12	3:D:527:MET:CG	2.47	0.42
3:N:196:VAL:HG13	3:N:202:VAL:CG1	2.48	0.42
1:L:58:ILE:HD13	1:L:140:MET:HB3	1.98	0.42
2:C:313:LEU:C	2:C:315:ALA:N	2.72	0.42
3:D:247:GLU:N	3:D:248:PRO:CD	2.83	0.42
3:N:470:LEU:O	3:N:474:GLU:N	2.46	0.42
1:A:73:GLU:HG3	1:A:130:ALA:CB	2.49	0.42
2:M:1114:GLY:O	2:M:1116:ALA:N	2.50	0.42
3:D:470:LEU:O	3:D:471:GLU:C	2.58	0.42
1:K:20:TYR:HE2	1:K:198:ARG:HB3	1.84	0.42
5:P:229:TYR:C	5:P:231:ARG:N	2.71	0.42
3:D:667:ALA:HA	3:D:668:PRO:HD3	1.91	0.42
4:O:93:TYR:HA	4:O:94:PRO:HD3	1.62	0.42
5:F:231:ARG:O	5:F:233:PHE:N	2.53	0.42
3:N:1483:PHE:N	3:N:1483:PHE:CD1	2.88	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:491:LYS:HD3	3:N:491:LYS:O	2.20	0.42
2:C:691:SER:HB2	2:C:858:MET:SD	2.60	0.42
5:F:155:THR:O	5:F:159:ILE:HG13	2.20	0.42
3:N:810:GLU:C	3:N:813:LEU:HG	2.40	0.42
3:N:1146:GLY:HA3	3:N:1207:TYR:CD1	2.55	0.42
3:D:179:VAL:HG11	3:D:217:LYS:HZ3	1.83	0.42
2:M:693:GLU:HG3	2:M:697:ARG:NH1	2.34	0.42
2:C:602:GLU:N	2:C:614:ARG:O	2.50	0.42
2:M:327:HIS:O	2:M:329:GLY:N	2.52	0.42
2:C:1098:ASP:HB2	3:D:13:ALA:HB2	2.02	0.42
2:M:86:LYS:CG	2:M:813:VAL:HG12	2.28	0.42
3:D:1195:GLN:HG2	3:D:1196:THR:N	2.34	0.42
1:B:86:VAL:O	1:B:86:VAL:HG13	2.20	0.42
3:N:1214:PRO:O	3:N:1215:VAL:C	2.56	0.42
3:N:710:ARG:HG3	3:N:711:LEU:N	2.34	0.42
2:C:1059:ASP:CG	2:C:1062:GLY:H	2.22	0.42
3:D:137:PRO:O	3:D:138:LYS:C	2.58	0.42
3:N:1117:TYR:N	3:N:1117:TYR:HD2	2.17	0.42
3:D:631:ILE:HG21	3:D:745:MET:HB2	2.01	0.42
3:N:798:GLU:HG2	3:N:799:LYS:H	1.85	0.42
5:F:203:THR:HA	5:F:212:LEU:HD13	2.02	0.42
1:K:182:GLU:C	2:M:938:LYS:HZ2	2.23	0.42
5:F:262:VAL:O	5:F:266:GLU:HG3	2.19	0.42
2:C:148:PHE:HB3	2:C:313:LEU:CD2	2.50	0.42
1:L:48:ILE:HA	1:L:49:PRO:HD3	1.72	0.42
3:D:1366:LYS:O	3:D:1370:ILE:HG12	2.19	0.42
1:L:180:GLN:O	1:L:196:THR:CG2	2.68	0.42
2:M:462:ASP:OD1	2:M:463:GLU:N	2.53	0.42
1:B:150:TYR:OH	1:B:168:ASP:HB3	2.20	0.42
5:P:319:THR:HG22	5:P:320:PRO:N	2.34	0.42
2:C:611:ILE:HD12	2:C:625:LEU:HD21	2.01	0.42
4:O:14:ASP:OD1	4:O:18:ARG:NH1	2.53	0.42
1:L:1:MET:N	1:L:1:MET:CE	2.82	0.42
2:M:72:ARG:HG3	2:M:72:ARG:HH11	1.84	0.42
2:C:751:PRO:HG3	2:C:796:GLU:HA	2.01	0.42
3:D:1340:GLY:O	3:D:1343:ALA:HB3	2.19	0.42
1:A:7:LYS:HG2	1:A:7:LYS:O	2.19	0.42
2:C:1078:GLU:HA	2:C:1079:PRO:HD3	1.87	0.42
3:N:559:ALA:O	3:N:561:GLY:N	2.53	0.42
2:C:1016:ILE:CD1	2:C:1016:ILE:N	2.64	0.42
3:N:806:PHE:CE1	3:N:813:LEU:HD23	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:O:45:ARG:HB3	4:O:46:PRO:HD2	2.01	0.42
3:D:217:LYS:HZ1	3:D:389:GLU:CB	2.33	0.42
3:D:171:LEU:HB2	3:D:390:PRO:HG3	2.01	0.42
2:M:833:LEU:HD12	2:M:837:ASP:OD1	2.20	0.42
3:N:459:GLU:OE1	5:P:144:ILE:HD12	2.19	0.42
1:A:111:ALA:O	1:A:112:ARG:C	2.58	0.42
3:N:428:LYS:HD3	3:N:451:ASP:OD1	2.19	0.42
2:M:971:LYS:HA	2:M:988:VAL:HA	2.01	0.42
3:D:220:ARG:CA	3:D:367:ILE:HG22	2.49	0.42
3:N:825:ALA:HB1	3:N:829:VAL:HG21	2.02	0.42
1:K:97:VAL:HG12	1:K:99:LEU:HD12	2.02	0.42
2:C:865:THR:HA	2:C:866:PRO:HD3	1.59	0.42
2:M:1046:ALA:CB	3:N:1476:THR:HB	2.49	0.42
2:M:675:ALA:O	2:M:870:ILE:HA	2.20	0.42
3:D:827:ILE:HG23	3:D:837:GLY:HA2	2.02	0.42
5:F:264:MET:O	5:F:268:ILE:HG13	2.19	0.42
2:M:370:ALA:CB	5:P:280:GLN:HA	2.50	0.42
3:N:1155:VAL:C	3:N:1157:GLY:H	2.19	0.42
2:M:899:GLN:HG3	2:M:901:TYR:CE2	2.55	0.42
1:L:188:GLN:HG3	1:L:189:ARG:N	2.32	0.42
2:M:722:ILE:HG21	2:M:821:GLU:OE1	2.20	0.42
1:L:91:ASN:HA	1:L:92:PRO:HD3	1.83	0.42
1:K:189:ARG:NH1	1:L:155:LYS:HZ1	2.18	0.42
2:M:704:HIS:O	2:M:828:ALA:HA	2.20	0.42
5:P:400:ILE:O	5:P:404:ALA:N	2.51	0.42
2:M:401:LEU:O	2:M:404:LEU:HB3	2.20	0.42
2:C:1077:PRO:O	2:C:1078:GLU:C	2.58	0.42
2:C:972:VAL:CG2	2:C:974:LEU:HD13	2.50	0.42
2:C:19:THR:HG22	2:C:23:VAL:HG23	2.02	0.42
2:C:52:PHE:CB	2:C:53:PRO:HD3	2.50	0.42
3:D:44:LEU:O	3:D:50:PHE:CE1	2.73	0.42
2:M:432:ARG:CZ	3:N:1048:PRO:HD2	2.50	0.42
3:N:939:PHE:O	3:N:943:THR:HG22	2.20	0.42
2:M:174:LEU:HD23	2:M:184:MET:HA	2.02	0.42
1:A:67:THR:HG21	2:C:609:ASN:HD21	1.84	0.42
5:F:84:TYR:CZ	5:F:192:LEU:HD22	2.55	0.42
4:E:60:ALA:O	4:E:63:TRP:HB2	2.20	0.42
1:B:86:VAL:CG1	1:B:123:MET:HB2	2.46	0.42
3:N:179:VAL:HG11	3:N:217:LYS:CE	2.50	0.42
5:P:94:LEU:HB2	5:P:98:GLU:OE1	2.20	0.42
3:N:423:ASP:CG	5:P:175:HIS:HA	2.40	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:619:LEU:HD23	3:N:619:LEU:O	2.20	0.42
1:A:89:PHE:CE2	1:A:94:LEU:O	2.72	0.42
3:N:757:ALA:HB1	3:N:761:ILE:HD12	2.01	0.42
2:M:971:LYS:HD2	2:M:986:PRO:O	2.20	0.42
2:M:625:LEU:HD11	2:M:641:PRO:HG3	2.01	0.42
3:N:564:GLU:CG	3:N:565:ILE:HD12	2.40	0.42
1:A:101:LEU:HD23	1:A:102:LYS:N	2.35	0.42
3:D:750:PRO:HG2	3:D:750:PRO:O	2.20	0.42
2:C:589:ARG:HB2	2:C:589:ARG:HH11	1.85	0.42
2:M:451:LEU:HD23	2:M:451:LEU:HA	1.92	0.42
3:N:1158:VAL:HG21	3:N:1173:LEU:HD21	2.01	0.42
3:N:159:ARG:NH1	3:N:159:ARG:HG3	2.34	0.42
3:N:1486:VAL:HG21	4:O:22:VAL:HG13	2.02	0.42
2:M:137:VAL:HG12	2:M:138:SER:N	2.34	0.42
1:A:79:ILE:C	1:A:79:ILE:HD12	2.40	0.42
2:C:149:THR:CG2	2:C:150:PRO:HD2	2.49	0.42
2:M:135:VAL:HG12	2:M:136:ILE:N	2.35	0.42
3:N:1031:ASN:HB3	3:N:1034:GLN:HB2	2.01	0.42
5:P:305:GLU:O	5:P:309:LYS:HG3	2.20	0.42
1:L:186:LEU:C	1:L:186:LEU:HD23	2.39	0.42
2:M:150:PRO:HG3	2:M:158:TYR:CD2	2.55	0.42
3:D:207:PHE:HB3	3:D:395:VAL:CG2	2.50	0.42
2:M:856:GLU:HG3	2:M:856:GLU:H	1.54	0.42
4:O:51:LEU:O	4:O:52:GLU:CD	2.58	0.42
2:M:1055:LEU:O	2:M:1063:ARG:HB3	2.19	0.42
3:N:45:PHE:HD1	3:N:522:PRO:HB3	1.85	0.42
5:P:338:LEU:HA	5:P:339:PRO:HD3	1.76	0.42
3:D:413:ASP:OD2	3:D:419:ASP:HB3	2.19	0.42
2:C:493:ARG:HD2	2:C:494:TYR:OH	2.20	0.42
2:C:49:ARG:NH1	2:C:49:ARG:CB	2.69	0.42
3:N:212:ARG:HB2	3:N:445:ARG:HH21	1.85	0.42
3:D:179:VAL:CG1	3:D:217:LYS:HZ1	2.33	0.42
2:M:188:LYS:HD3	2:M:189:ARG:CA	2.47	0.42
1:B:42:ARG:HH11	1:B:42:ARG:HG2	1.85	0.42
3:N:137:PRO:HG2	3:N:453:ASP:HB3	2.02	0.42
3:N:225:LEU:HB2	3:N:227:LEU:CD1	2.50	0.42
1:A:124:ASN:CG	1:A:127:LEU:HD23	2.41	0.42
1:A:18:ARG:HD3	1:A:123:MET:HE1	2.02	0.42
1:A:206:THR:HB	1:A:209:GLU:HB2	2.01	0.42
3:N:455:ARG:NH2	5:P:140:ARG:HB2	2.27	0.42
2:C:639:GLN:HA	2:C:657:ASP:O	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:211:LEU:O	1:K:215:VAL:HG13	2.20	0.42
2:M:1008:ARG:HG2	2:M:1008:ARG:HH11	1.85	0.42
3:N:948:THR:O	3:N:1019:PRO:HB3	2.20	0.42
2:M:516:ARG:CD	3:N:1068:LEU:HD13	2.47	0.42
3:N:477:LEU:O	3:N:481:MET:HB2	2.20	0.42
3:D:729:HIS:CE1	3:D:731:LEU:HG	2.44	0.42
2:M:266:ARG:NH1	2:M:266:ARG:HG3	2.34	0.42
2:C:1095:LEU:HA	3:D:582:LEU:CD2	2.50	0.42
5:F:419:ARG:HG3	5:F:420:ASP:N	2.34	0.42
3:N:598:ARG:NH2	5:P:316:SER:OG	2.52	0.42
2:M:774:LEU:C	2:M:774:LEU:HD13	2.40	0.42
3:D:653:PHE:CD1	3:D:653:PHE:N	2.84	0.42
3:D:1356:TYR:CD2	3:D:1363:LEU:HD23	2.55	0.42
2:C:725:ASP:N	2:C:725:ASP:OD2	2.53	0.42
3:N:924:MET:CB	4:O:7:ASP:OD2	2.66	0.42
3:N:930:LEU:HG	3:N:934:LEU:HD12	2.02	0.42
3:D:1076:GLY:CA	3:D:1079:LYS:HG2	2.48	0.42
3:N:1128:VAL:O	3:N:1129:THR:C	2.57	0.42
2:M:343:GLN:HE21	2:M:343:GLN:HB2	1.65	0.42
5:F:151:LEU:HB2	5:F:155:THR:N	2.21	0.41
2:C:27:ARG:C	2:C:29:ALA:N	2.73	0.41
3:N:1023:MET:HB3	3:N:1029:ARG:O	2.20	0.41
3:N:902:LEU:C	3:N:904:VAL:H	2.23	0.41
2:C:266:ARG:H	2:C:288:ARG:CD	2.32	0.41
2:M:1034:GLU:HA	2:M:1037:VAL:CG2	2.50	0.41
3:N:703:ASN:HA	3:N:703:ASN:HD22	1.55	0.41
2:C:1059:ASP:OD2	2:C:1080:SER:N	2.46	0.41
2:C:101:ILE:HG23	2:C:107:LEU:CD2	2.48	0.41
5:P:88:ILE:HG21	5:P:193:ARG:CD	2.50	0.41
3:D:1101:VAL:CG2	3:D:1424:VAL:HG13	2.46	0.41
3:D:894:LYS:O	3:D:897:TRP:N	2.48	0.41
2:M:1004:LYS:O	2:M:1006:HIS:ND1	2.53	0.41
3:N:637:LEU:CD1	3:N:641:GLN:HB2	2.50	0.41
5:F:321:ILE:HG22	5:F:327:SER:O	2.20	0.41
3:N:486:ARG:NH2	3:N:489:ARG:CZ	2.83	0.41
2:M:277:ALA:O	2:M:281:LEU:O	2.38	0.41
2:C:395:LYS:CE	2:C:407:LYS:NZ	2.76	0.41
2:C:395:LYS:CE	2:C:403:SER:HB2	2.50	0.41
2:C:923:GLU:O	2:C:926:PHE:N	2.52	0.41
2:M:340:MET:O	2:M:340:MET:SD	2.77	0.41
5:F:248:ASN:O	5:F:251:ILE:HB	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1090:ASP:O	3:N:1093:TYR:N	2.53	0.41
1:B:114:PHE:O	1:B:116:PRO:HD3	2.19	0.41
5:P:350:LEU:O	5:P:354:LEU:HG	2.20	0.41
5:P:420:ASP:O	5:P:421:PHE:C	2.59	0.41
1:A:198:ARG:NH2	2:C:934:PHE:HE1	2.17	0.41
3:D:653:PHE:CD1	3:D:695:ILE:HD11	2.54	0.41
2:C:188:LYS:HE2	2:C:188:LYS:CA	2.50	0.41
3:D:1207:TYR:CD1	3:D:1212:ALA:O	2.73	0.41
2:M:397:GLU:HG3	2:M:632:ASN:H	1.85	0.41
3:N:382:GLU:C	3:N:384:VAL:H	2.24	0.41
2:C:1053:LEU:HG	3:D:1466:VAL:HG13	2.01	0.41
3:D:202:VAL:HG12	3:D:204:LEU:HD21	2.02	0.41
1:L:92:PRO:C	1:L:94:LEU:N	2.72	0.41
2:M:208:ALA:HB1	2:M:222:MET:CE	2.49	0.41
2:C:961:GLU:HA	2:C:961:GLU:OE1	2.19	0.41
3:D:1331:ASP:OD2	3:D:1332:PRO:N	2.52	0.41
2:C:816:LYS:HB2	2:C:819:VAL:CG2	2.50	0.41
2:M:762:LYS:CG	2:M:763:GLY:H	2.31	0.41
3:N:1187:PRO:O	3:N:1187:PRO:HG2	2.19	0.41
5:F:362:SER:O	5:F:364:ARG:N	2.53	0.41
2:M:1060:ILE:HG13	2:M:1083:GLU:CG	2.36	0.41
3:N:1490:LYS:HE3	4:O:39:VAL:HA	2.01	0.41
3:N:1166:LEU:HD23	3:N:1166:LEU:H	1.85	0.41
1:A:24:VAL:HG12	1:A:25:LEU:N	2.35	0.41
3:D:179:VAL:CG1	3:D:217:LYS:NZ	2.83	0.41
3:N:790:TYR:CD2	3:N:1026:SER:HB3	2.55	0.41
3:N:789:LEU:O	3:N:792:ILE:CG2	2.68	0.41
2:M:670:GLN:NE2	2:M:699:PHE:HA	2.31	0.41
1:A:70:GLY:N	2:C:607:ASP:OD2	2.49	0.41
5:F:79:ASP:O	5:F:83:GLN:N	2.32	0.41
4:E:65:MET:O	4:E:69:LEU:HB2	2.20	0.41
1:B:85:LEU:HD11	1:B:122:ILE:HG23	2.02	0.41
2:M:263:ASP:CB	2:M:264:PRO:HD3	2.49	0.41
3:D:994:GLN:HE21	3:D:998:GLU:CG	2.33	0.41
3:N:428:LYS:CD	3:N:451:ASP:HB3	2.50	0.41
5:P:161:GLN:C	5:P:163:LEU:N	2.72	0.41
1:B:209:GLU:O	1:B:212:ASN:HB2	2.19	0.41
1:B:212:ASN:HD22	1:B:212:ASN:N	2.18	0.41
2:C:1059:ASP:CG	2:C:1080:SER:HB2	2.39	0.41
1:K:179:PHE:O	1:K:180:GLN:CG	2.68	0.41
1:K:209:GLU:O	1:K:213:GLN:NE2	2.53	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:P:393:THR:HG22	5:P:394:ARG:N	2.34	0.41
2:M:196:LEU:HD12	2:M:238:LEU:HD11	2.02	0.41
2:M:14:PRO:C	2:M:15:LEU:O	2.56	0.41
3:D:221:ALA:HB1	3:D:224:ARG:HD2	2.02	0.41
3:N:1284:GLU:HA	3:N:1284:GLU:OE1	2.20	0.41
1:B:156:HIS:CD2	1:B:157:GLY:N	2.86	0.41
3:N:845:ASN:H	3:N:848:GLU:HG3	1.85	0.41
1:B:26:GLU:HB2	1:B:27:PRO:HA	2.01	0.41
5:P:110:MET:O	5:P:112:ALA:N	2.53	0.41
2:M:909:ALA:C	2:M:910:LYS:HD2	2.41	0.41
1:L:57:TYR:CE1	1:L:163:ASN:HB2	2.53	0.41
2:C:564:MET:HG2	2:C:840:ALA:CB	2.50	0.41
2:C:683:ASN:N	2:C:683:ASN:OD1	2.53	0.41
1:A:168:ASP:OD2	2:C:830:LYS:NZ	2.53	0.41
2:M:798:GLY:H	2:M:827:VAL:HG12	1.83	0.41
1:L:143:ARG:CD	1:L:158:ILE:HG21	2.50	0.41
3:D:1176:LYS:HA	3:D:1179:GLU:CG	2.50	0.41
5:P:332:PHE:CD1	5:P:332:PHE:N	2.87	0.41
2:M:762:LYS:HB2	2:M:762:LYS:HZ3	1.85	0.41
2:M:751:PRO:CG	3:N:680:GLN:HE21	2.33	0.41
3:D:508:ARG:HG2	3:D:508:ARG:NH1	2.35	0.41
4:E:31:LEU:O	4:E:32:ARG:C	2.58	0.41
2:M:1067:TYR:OH	3:N:674:ARG:NH1	2.53	0.41
2:C:431:HIS:H	2:C:434:HIS:CE1	2.38	0.41
2:C:1058:ASP:CG	2:C:1083:GLU:H	2.23	0.41
3:N:806:PHE:CE1	3:N:809:PRO:O	2.72	0.41
2:M:574:ALA:O	2:M:575:GLN:CB	2.62	0.41
3:D:123:LEU:HD21	3:D:152:LEU:HD22	2.03	0.41
3:D:569:ASN:ND2	3:D:573:MET:SD	2.92	0.41
3:D:951:ILE:C	3:D:953:ASP:H	2.23	0.41
3:N:983:LEU:HD22	3:N:987:GLU:HG2	2.01	0.41
2:C:657:ASP:OD2	2:C:662:GLU:O	2.39	0.41
5:F:350:LEU:HA	5:F:422:LEU:HD12	2.02	0.41
3:D:794:GLN:NE2	3:D:795:VAL:N	2.66	0.41
3:N:1113:GLY:O	3:N:1115:THR:N	2.53	0.41
2:M:583:LEU:O	2:M:585:GLU:N	2.54	0.41
2:M:775:ARG:O	2:M:779:GLY:N	2.53	0.41
3:D:223:LEU:N	3:D:223:LEU:HD13	2.35	0.41
3:D:675:ARG:HH22	5:F:420:ASP:HB3	1.84	0.41
2:M:892:LEU:HD21	2:M:967:PHE:CE1	2.54	0.41
1:A:101:LEU:O	1:A:102:LYS:HB2	2.19	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:101:LEU:HB2	1:B:114:PHE:CD2	2.55	0.41
3:D:554:LEU:O	3:D:557:LEU:HB2	2.20	0.41
3:D:574:LEU:O	3:D:578:VAL:HG23	2.20	0.41
3:D:813:LEU:HG	3:D:814:ALA:H	1.85	0.41
1:L:19:GLU:OE1	1:L:203:GLY:CA	2.68	0.41
2:C:200:LEU:C	2:C:202:TYR:H	2.23	0.41
5:P:277:GLN:O	5:P:280:GLN:HB3	2.20	0.41
5:P:77:THR:HG21	5:P:209:PHE:HD2	1.85	0.41
2:C:758:ARG:O	2:C:759:THR:HG23	2.19	0.41
3:D:956:ILE:HA	3:D:957:PRO:HD3	1.72	0.41
2:C:559:LEU:O	2:C:560:MET:C	2.58	0.41
2:M:841:ASN:ND2	2:M:843:HIS:HD2	2.16	0.41
3:N:1107:VAL:CG1	3:N:1217:ILE:HA	2.50	0.41
3:D:1485:GLN:NE2	4:E:80:VAL:H	2.18	0.41
3:N:241:ILE:O	3:N:242:LEU:HD23	2.21	0.41
2:M:345:ARG:C	2:M:347:GLY:H	2.23	0.41
2:M:336:VAL:O	2:M:337:GLY:C	2.57	0.41
3:N:576:GLU:HA	3:N:579:ASP:OD2	2.20	0.41
3:N:230:TRP:C	3:N:232:GLU:N	2.73	0.41
2:M:550:LEU:HD12	2:M:550:LEU:O	2.21	0.41
5:P:392:VAL:HG11	5:P:396:ARG:HD2	2.02	0.41
3:D:1198:TYR:CD1	3:D:1460:ILE:HD13	2.56	0.41
3:N:119:SER:N	3:N:123:LEU:HB2	2.35	0.41
3:D:1131:SER:O	3:D:1132:LEU:C	2.59	0.41
2:M:1048:THR:OG1	3:N:755:ALA:CA	2.68	0.41
1:B:212:ASN:O	1:B:215:VAL:CG2	2.65	0.41
2:M:437:ARG:HA	2:M:467:ILE:HG21	2.02	0.41
2:M:736:ASP:HB3	2:M:743:VAL:HG23	2.01	0.41
3:D:729:HIS:HD1	3:D:731:LEU:H	1.68	0.41
3:D:732:VAL:O	3:D:735:ALA:HB3	2.20	0.41
3:D:736:PHE:O	3:D:738:ALA:N	2.53	0.41
2:M:195:LEU:O	2:M:199:VAL:HG23	2.20	0.41
2:C:1095:LEU:HD23	3:D:582:LEU:HA	2.01	0.41
6:M:1120:STD:H32	3:N:1086:LEU:HA	2.01	0.41
2:M:711:GLU:O	2:M:758:ARG:HD2	2.21	0.41
3:D:40:GLU:O	3:D:41:ARG:O	2.38	0.41
3:D:1042:ARG:HH11	3:D:1065:LEU:CD2	2.33	0.41
2:C:810:ASP:HA	2:C:811:PRO:HD3	1.79	0.41
1:B:25:LEU:CD2	1:B:25:LEU:C	2.85	0.41
3:D:1209:LEU:HD22	3:D:1210:SER:H	1.81	0.41
3:N:159:ARG:HG3	3:N:159:ARG:HH11	1.84	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1372:VAL:HA	3:N:1375:MET:HG3	2.02	0.41
2:C:144:PRO:HA	2:C:163:ILE:HG23	2.01	0.41
1:B:62:LEU:HD12	1:B:63:HIS:H	1.85	0.41
2:M:1092:LEU:HD22	2:M:1099:VAL:HG11	2.03	0.41
1:L:94:LEU:HD11	1:L:119:ASP:HB3	2.02	0.41
4:O:7:ASP:HA	4:O:10:PHE:HD1	1.84	0.41
2:M:1102:LEU:HD23	2:M:1106:ASP:C	2.41	0.41
3:N:1031:ASN:HD22	3:N:1032:PRO:CD	2.33	0.41
1:L:62:LEU:HD13	1:L:63:HIS:H	1.84	0.41
5:F:319:THR:O	5:F:329:TYR:HB2	2.20	0.41
2:C:548:PRO:HG3	2:C:842:ARG:NH1	2.35	0.41
2:M:124:ASP:OD1	2:M:407:LYS:HE2	2.21	0.41
3:N:1004:THR:OG1	3:N:1036:ARG:CD	2.68	0.41
3:D:566:ILE:HD13	5:F:217:ASN:HB3	2.01	0.41
2:M:1019:GLN:HG2	2:M:1058:ASP:OD2	2.20	0.41
3:D:1262:LEU:C	3:D:1264:GLU:N	2.73	0.41
2:C:299:LYS:O	2:C:299:LYS:HG3	2.20	0.41
3:N:1170:ASP:O	3:N:1172:HIS:N	2.54	0.41
3:D:171:LEU:C	3:D:171:LEU:HD12	2.41	0.41
3:D:388:HIS:ND1	3:D:390:PRO:HD3	2.36	0.41
2:M:569:VAL:HG13	2:M:569:VAL:O	2.20	0.41
3:N:547:LEU:O	3:N:550:ARG:HB2	2.20	0.41
3:N:554:LEU:HD22	3:N:570:GLU:CG	2.44	0.41
2:C:885:ILE:HG13	3:D:949:ILE:HG22	2.03	0.41
1:A:36:LEU:C	1:A:39:PRO:HD2	2.40	0.41
1:B:29:GLU:O	1:B:32:PHE:HD1	2.03	0.41
2:M:78:PHE:CD1	2:M:88:LEU:HD13	2.55	0.41
5:P:98:GLU:O	5:P:102:LEU:HG	2.20	0.41
3:D:996:TRP:O	3:D:997:THR:C	2.58	0.41
1:B:44:LEU:HD22	1:B:199:ILE:HD13	2.02	0.41
2:M:437:ARG:HH11	2:M:437:ARG:HG3	1.85	0.41
3:D:162:ARG:O	3:D:164:GLY:N	2.47	0.41
3:N:736:PHE:O	3:N:738:ALA:HB2	2.21	0.41
3:D:135:LEU:HD23	3:D:135:LEU:O	2.21	0.41
3:D:477:LEU:O	3:D:481:MET:N	2.52	0.41
1:K:41:ARG:O	1:K:41:ARG:HG2	2.20	0.41
2:M:1043:TYR:CE2	3:N:763:MET:HG3	2.54	0.41
2:M:311:PHE:HA	2:M:314:THR:HG1	1.86	0.41
3:N:1381:VAL:HB	3:N:1389:LEU:O	2.20	0.41
3:N:480:GLU:O	3:N:484:PRO:HD2	2.21	0.41
3:D:631:ILE:O	3:D:632:VAL:HG23	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:302:VAL:C	2:M:305:PRO:HD2	2.41	0.41
3:D:770:LEU:CD2	3:D:777:PRO:HB3	2.51	0.41
3:D:28:LYS:HD3	3:D:41:ARG:CD	2.44	0.41
3:N:957:PRO:CG	3:N:1007:VAL:HA	2.49	0.41
5:F:265:VAL:C	5:F:267:THR:N	2.73	0.41
3:D:1147:ARG:CD	3:D:1188:VAL:HG21	2.51	0.41
1:L:14:ARG:HH22	1:L:24:VAL:HG21	1.85	0.41
2:M:455:LEU:HD12	2:M:455:LEU:O	2.20	0.41
2:C:197:LEU:HD22	2:C:202:TYR:CB	2.50	0.41
2:C:600:ASP:O	2:C:615:TYR:HA	2.20	0.41
1:A:115:LEU:HA	1:A:116:PRO:HD3	1.74	0.41
1:L:180:GLN:HB2	1:L:196:THR:CG2	2.51	0.41
3:D:899:LEU:HD22	3:D:900:ILE:HG23	2.02	0.41
5:F:239:ALA:O	5:F:240:THR:C	2.59	0.41
3:N:1237:THR:O	3:N:1238:MET:HB2	2.21	0.41
1:A:57:TYR:CE1	1:A:161:ARG:HD3	2.56	0.41
1:A:65:PHE:CE1	2:C:799:ILE:HD11	2.55	0.41
2:M:958:THR:HG23	2:M:961:GLU:CB	2.50	0.41
2:M:338:GLU:HA	2:M:341:THR:OG1	2.21	0.41
3:N:1231:GLU:HB3	3:N:1232:PRO:HD3	2.03	0.41
3:N:1223:ILE:HG22	3:N:1224:VAL:N	2.36	0.41
3:N:731:LEU:HD23	3:N:731:LEU:HA	1.66	0.41
2:M:57:GLU:HB3	2:M:58:ASP:H	1.49	0.41
3:N:55:ASP:C	3:N:57:GLU:H	2.23	0.41
5:F:166:LEU:O	5:F:171:LYS:HB2	2.20	0.41
2:C:25:SER:O	2:C:27:ARG:N	2.54	0.41
2:C:27:ARG:O	2:C:28:ARG:C	2.58	0.41
2:C:1016:ILE:HG12	2:C:1017:THR:H	1.86	0.41
2:M:571:LEU:HD23	2:M:700:TYR:HA	2.03	0.41
3:D:112:ILE:HD11	3:D:124:GLU:HG2	2.02	0.41
5:F:85:LEU:HD23	5:F:193:ARG:HD3	2.01	0.41
4:E:63:TRP:O	4:E:64:ALA:C	2.58	0.41
3:N:218:LYS:O	3:N:370:ALA:HB1	2.21	0.41
1:K:124:ASN:N	1:K:125:PRO:CD	2.81	0.41
3:N:709:HIS:O	3:N:712:GLY:N	2.36	0.41
3:N:710:ARG:C	3:N:712:GLY:H	2.23	0.41
5:P:134:LYS:C	5:P:135:ILE:HG12	2.39	0.41
1:B:23:PHE:HB2	1:B:197:LEU:HD23	2.01	0.41
2:C:473:ARG:HB3	2:C:480:THR:OG1	2.21	0.41
3:D:482:LYS:HA	3:D:489:ARG:NH2	2.36	0.41
2:M:291:ALA:O	2:M:292:ARG:CB	2.67	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1198:TYR:OH	3:N:1394:VAL:HG11	2.20	0.41
5:P:365:GLU:HA	5:P:368:VAL:HB	2.03	0.41
3:N:631:ILE:HG21	3:N:745:MET:SD	2.61	0.41
3:N:1042:ARG:HH22	3:N:1045:MET:CE	2.33	0.41
3:N:493:ARG:CB	3:N:493:ARG:NH1	2.84	0.41
3:D:224:ARG:H	3:D:365:ASP:CB	2.33	0.41
2:C:923:GLU:C	2:C:925:TYR:N	2.72	0.41
3:N:601:ARG:CD	3:N:613:ARG:NH2	2.80	0.41
3:N:804:LEU:CD1	3:N:831:GLY:HA3	2.51	0.41
5:F:78:SER:O	5:F:82:ARG:HB2	2.20	0.41
3:D:1372:VAL:O	3:D:1375:MET:N	2.52	0.41
1:L:75:VAL:O	1:L:77:GLU:N	2.54	0.41
3:N:1136:LYS:HB2	3:N:1139:ASP:OD1	2.20	0.41
2:C:835:VAL:HG23	2:C:849:VAL:O	2.21	0.41
5:P:345:ALA:O	5:P:348:SER:OG	2.39	0.41
3:D:650:LEU:HD13	3:D:688:TRP:CZ3	2.54	0.41
2:M:958:THR:CG2	2:M:961:GLU:HB2	2.50	0.41
2:C:892:LEU:C	2:C:892:LEU:HD12	2.41	0.41
1:A:82:LEU:C	1:A:84:GLU:N	2.74	0.41
2:C:267:TYR:OH	2:C:342:ASP:OD1	2.28	0.41
1:B:82:LEU:C	1:B:84:GLU:N	2.73	0.41
3:D:1290:LEU:C	3:D:1290:LEU:HD23	2.39	0.41
3:D:868:TYR:HA	3:D:868:TYR:HD2	1.75	0.41
2:C:139:GLN:OE1	2:C:391:LEU:HD22	2.20	0.41
2:C:1031:ARG:NH1	2:C:1031:ARG:HG2	2.36	0.41
3:N:806:PHE:C	3:N:808:THR:N	2.74	0.41
3:N:186:VAL:O	3:N:211:VAL:HB	2.21	0.41
3:N:783:ARG:HH12	3:N:1029:ARG:HH21	1.69	0.41
2:C:602:GLU:C	2:C:614:ARG:HB3	2.40	0.41
2:C:647:GLN:NE2	2:C:650:ARG:NH2	2.69	0.41
3:N:553:ARG:O	3:N:554:LEU:C	2.58	0.41
3:D:572:ARG:NE	5:F:80:PRO:HG3	2.36	0.41
1:K:55:SER:C	1:K:56:VAL:HG23	2.41	0.41
3:D:984:THR:HG23	3:D:987:GLU:N	2.26	0.41
3:N:428:LYS:NZ	3:N:451:ASP:HB3	2.34	0.41
3:D:378:ILE:N	3:D:378:ILE:CD1	2.78	0.41
5:F:129:GLU:O	5:F:132:ARG:HB2	2.21	0.41
3:N:637:LEU:HD21	3:N:642:CYS:HA	2.03	0.41
3:N:699:VAL:HG12	3:N:717:GLN:HG3	2.03	0.41
3:N:675:ARG:HA	3:N:678:GLU:CD	2.41	0.41
3:N:486:ARG:HH21	3:N:489:ARG:CZ	2.30	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1004:LYS:O	2:C:1005:MET:C	2.58	0.41
3:D:638:LYS:N	3:D:641:GLN:OE1	2.54	0.41
3:N:1074:SER:O	3:N:1078:ARG:HG2	2.20	0.41
2:M:607:ASP:OD1	2:M:610:ARG:NH1	2.54	0.41
3:N:29:PRO:HG2	3:N:549:ASN:HD21	1.81	0.41
3:D:820:GLU:C	3:D:822:ALA:H	2.23	0.41
3:N:109:PRO:O	3:N:110:SER:C	2.59	0.41
2:C:200:LEU:O	2:C:202:TYR:N	2.54	0.41
3:N:132:TYR:CE2	3:N:154:THR:HG23	2.55	0.41
2:C:879:ARG:O	2:C:881:ASN:ND2	2.53	0.41
2:M:897:LEU:CD1	2:M:921:ALA:HB2	2.51	0.41
3:D:792:ILE:HG12	3:D:793:THR:N	2.31	0.41
3:N:633:VAL:O	3:N:635:PRO:HD3	2.20	0.41
1:A:80:LEU:HA	1:A:80:LEU:HD12	1.96	0.41
1:K:110:LYS:C	1:K:112:ARG:N	2.74	0.41
2:C:801:VAL:O	2:C:802:ARG:CB	2.68	0.41
3:D:1096:ARG:NH1	3:D:1096:ARG:CB	2.83	0.41
2:M:69:LEU:HB2	2:M:97:ARG:HB2	2.02	0.41
2:C:35:PRO:HA	2:C:36:PRO:HD3	1.99	0.41
2:M:236:ILE:HD13	2:M:248:PRO:O	2.21	0.41
2:M:9:ILE:O	2:M:10:ARG:C	2.59	0.41
2:M:1067:TYR:HE1	3:N:655:PRO:HG3	1.85	0.41
3:D:1264:GLU:OE2	3:D:1425:THR:CB	2.66	0.41
2:C:289:THR:O	2:C:291:ALA:N	2.53	0.41
2:C:48:PHE:CD2	2:C:52:PHE:HE2	2.38	0.41
3:N:162:ARG:CA	3:N:434:ARG:HH21	2.33	0.41
3:N:788:GLY:O	3:N:792:ILE:HG22	2.21	0.41
2:C:602:GLU:CG	2:C:603:VAL:N	2.70	0.41
3:D:119:SER:HB2	3:D:123:LEU:CA	2.48	0.41
3:N:179:VAL:CG1	3:N:217:LYS:NZ	2.75	0.41
1:A:206:THR:HG23	1:A:207:PRO:HD2	2.03	0.41
3:N:169:TYR:N	3:N:170:PRO:HD3	2.36	0.41
2:C:111:ASP:HB2	2:C:112:GLU:H	1.53	0.41
2:M:564:MET:CG	2:M:840:ALA:HB3	2.50	0.41
3:N:757:ALA:O	3:N:758:GLU:C	2.58	0.41
3:N:1055:VAL:HA	3:N:1056:PRO:HD3	1.92	0.41
3:N:996:TRP:CD2	3:N:1056:PRO:CG	3.04	0.41
3:N:496:LEU:HD21	3:N:500:ARG:HE	1.86	0.41
3:N:504:ASP:C	3:N:506:GLY:N	2.73	0.41
2:M:146:VAL:HG12	2:M:162:ILE:CA	2.38	0.41
2:M:607:ASP:HB2	2:M:610:ARG:H	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:10:ILE:CD1	3:D:1434:TRP:CE2	3.04	0.41
3:D:770:LEU:HD21	3:D:919:PHE:HD1	1.86	0.41
1:A:198:ARG:HD3	1:A:200:TRP:CH2	2.56	0.41
2:C:238:LEU:O	2:C:242:LEU:HD13	2.19	0.41
2:M:681:GLY:C	2:M:683:ASN:N	2.73	0.41
1:B:58:ILE:CG2	1:B:59:GLU:N	2.82	0.41
3:D:34:TYR:CE2	5:F:261:PRO:HD3	2.56	0.41
2:C:121:MET:HB2	2:C:127:PHE:HE2	1.85	0.41
3:N:1094:LEU:O	3:N:1095:THR:C	2.59	0.41
3:D:775:GLY:CA	3:D:1145:TYR:HE1	2.34	0.41
1:B:92:PRO:C	1:B:94:LEU:H	2.24	0.41
1:L:44:LEU:HD23	1:L:48:ILE:CD1	2.51	0.41
5:F:406:ARG:O	5:F:409:LYS:HG2	2.21	0.41
3:N:430:ASP:HB3	3:N:431:VAL:H	1.66	0.41
3:N:92:HIS:HA	3:N:519:VAL:HG23	2.03	0.41
4:E:41:GLU:N	4:E:42:PRO:CD	2.83	0.41
4:E:51:LEU:HD12	4:E:51:LEU:C	2.40	0.41
4:O:92:ILE:O	4:O:92:ILE:HG22	2.21	0.41
2:M:589:ARG:HD3	2:M:596:TYR:CE2	2.55	0.41
2:C:204:GLN:CD	2:C:222:MET:HA	2.41	0.41
1:A:104:GLU:O	1:A:105:GLY:O	2.38	0.41
3:D:684:LYS:C	3:D:686:GLU:H	2.23	0.41
1:A:220:GLU:O	1:A:223:THR:HB	2.21	0.41
3:D:1161:GLU:OE2	3:D:1164:ARG:NH1	2.54	0.41
2:M:592:LEU:HD23	2:M:592:LEU:HA	1.77	0.41
3:N:653:PHE:O	3:N:654:LYS:C	2.60	0.41
2:C:284:ARG:O	2:C:301:GLU:HG2	2.21	0.41
3:D:50:PHE:O	3:D:86:ARG:HA	2.21	0.41
3:D:50:PHE:HB2	3:D:522:PRO:HG2	2.03	0.41
3:D:619:LEU:HD23	3:D:619:LEU:O	2.20	0.41
2:C:1115:LEU:HD12	2:C:1115:LEU:N	2.20	0.41
3:N:401:TYR:N	3:N:402:PRO:HD3	2.35	0.41
1:A:9:PRO:HB3	1:A:25:LEU:HD23	2.03	0.41
2:M:874:LEU:O	2:M:876:VAL:N	2.53	0.41
3:N:574:LEU:O	3:N:578:VAL:CG2	2.68	0.41
3:D:119:SER:HB2	3:D:123:LEU:CB	2.47	0.41
3:D:119:SER:H	3:D:123:LEU:CB	2.25	0.41
3:D:572:ARG:NH1	5:F:79:ASP:OD2	2.54	0.41
1:B:33:GLY:O	1:B:195:LEU:HD13	2.21	0.41
3:D:1197:ARG:HD3	3:D:1396:GLU:HB3	2.03	0.41
3:N:219:GLU:HG3	3:N:220:ARG:HG3	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:388:HIS:CB	5:P:94:LEU:HD21	2.51	0.41
3:N:618:LEU:HA	3:N:618:LEU:HD23	1.78	0.41
3:D:976:GLN:C	3:D:978:TYR:N	2.75	0.41
3:D:984:THR:H	3:D:987:GLU:HB2	1.86	0.41
3:N:560:GLN:CA	3:N:560:GLN:NE2	2.82	0.41
2:C:1030:GLN:NE2	3:D:628:ARG:HE	2.18	0.41
5:P:88:ILE:HG22	5:P:193:ARG:HH11	1.83	0.41
2:C:449:ILE:HG22	2:C:450:GLY:N	2.35	0.41
2:C:97:ARG:HA	2:C:111:ASP:HA	2.03	0.41
2:M:549:PHE:HB3	2:M:552:HIS:HD2	1.81	0.41
5:F:144:ILE:N	5:F:145:PRO:CD	2.84	0.41
5:P:365:GLU:HG2	5:P:397:ILE:HG12	2.02	0.41
3:D:218:LYS:CD	3:D:370:ALA:HA	2.50	0.41
3:D:842:VAL:C	3:D:843:PHE:CD2	2.93	0.41
2:M:1007:ALA:HB2	3:N:648:MET:CG	2.44	0.41
2:M:985:GLY:O	2:M:987:ILE:HD13	2.20	0.41
3:N:1068:LEU:O	3:N:1069:GLU:C	2.60	0.41
1:A:183:ASP:HA	1:A:192:LEU:O	2.21	0.41
1:A:182:GLU:O	1:A:183:ASP:C	2.59	0.41
3:N:478:LEU:CD2	3:N:1388:ARG:NH1	2.84	0.41
3:D:1084:THR:C	3:D:1086:LEU:H	2.24	0.41
3:D:701:LEU:C	3:D:702:LEU:HD12	2.41	0.41
3:D:729:HIS:O	3:D:732:VAL:HG22	2.20	0.41
2:M:545:ASN:HA	2:M:905:ILE:CG2	2.50	0.41
2:M:266:ARG:O	2:M:272:ALA:CB	2.56	0.41
3:D:606:ILE:H	3:D:606:ILE:HG13	1.60	0.41
3:N:246:PRO:HB2	3:N:247:GLU:H	1.59	0.41
5:F:420:ASP:O	5:F:421:PHE:C	2.59	0.41
3:N:892:ASP:HB3	3:N:895:VAL:CB	2.48	0.41
3:N:613:ARG:HG2	3:N:613:ARG:O	2.20	0.41
6:M:1120:STD:H312	3:N:1086:LEU:HB2	2.02	0.41
3:N:40:GLU:O	3:N:41:ARG:O	2.39	0.41
3:N:1323:GLN:HA	3:N:1324:PRO:HD3	1.92	0.41
3:N:513:ILE:HD12	3:N:513:ILE:H	1.85	0.41
3:D:699:VAL:HG12	3:D:717:GLN:HA	2.03	0.41
3:D:139:GLY:CA	3:D:452:ILE:HD12	2.50	0.41
3:N:231:VAL:HG12	3:N:378:ILE:HG23	2.02	0.41
2:M:681:GLY:C	2:M:683:ASN:H	2.23	0.41
3:D:806:PHE:O	3:D:807:ALA:C	2.58	0.41
3:N:1007:VAL:CG2	3:N:1008:PHE:N	2.83	0.41
3:D:34:TYR:O	3:D:36:THR:N	2.54	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:185:VAL:HG12	3:N:189:GLN:HB3	2.03	0.41
2:M:252:LYS:HB3	2:M:256:TYR:CE1	2.56	0.41
3:N:1094:LEU:HD13	3:N:1260:ILE:CD1	2.51	0.41
5:F:234:LYS:HD3	5:F:235:PHE:H	1.85	0.41
2:C:946:ARG:NH1	2:C:984:GLU:HB2	2.35	0.41
2:M:981:GLU:HB3	2:M:982:PRO:HD2	2.02	0.41
2:C:710:ILE:HD11	2:C:758:ARG:NE	2.36	0.41
3:D:74:GLU:HB2	3:D:75:ARG:HH11	1.85	0.41
1:L:195:LEU:C	1:L:195:LEU:HD12	2.40	0.41
3:D:895:VAL:O	3:D:898:GLU:N	2.54	0.41
2:C:251:ASP:HB3	2:C:252:LYS:H	1.59	0.41
3:N:1413:THR:O	3:N:1414:PRO:C	2.59	0.41
2:M:97:ARG:NH2	2:M:109:LYS:NZ	2.69	0.41
2:C:981:GLU:HA	2:C:982:PRO:HD3	1.68	0.41
1:A:17:GLY:C	1:A:19:GLU:N	2.74	0.41
2:M:47:ALA:HB2	2:M:345:ARG:NH1	2.35	0.41
2:C:787:ASP:O	2:C:787:ASP:CG	2.58	0.41
4:E:93:TYR:HA	4:E:94:PRO:HD3	1.68	0.41
2:C:544:THR:C	2:C:546:LEU:H	2.24	0.41
2:C:547:ILE:HA	2:C:548:PRO:HD3	1.84	0.41
2:M:122:THR:CG2	2:M:123:GLU:N	2.84	0.41
2:M:565:GLN:C	2:M:567:GLN:H	2.24	0.41
3:D:708:LEU:HD23	3:D:708:LEU:N	2.34	0.41
3:D:416:ALA:N	3:D:417:PRO:CD	2.84	0.41
2:C:3:ILE:HD13	2:C:900:ARG:HB2	2.02	0.41
3:D:1164:ARG:HG3	3:D:1164:ARG:HH11	1.86	0.41
3:D:1417:TRP:CD1	3:D:1417:TRP:C	2.93	0.41
5:F:215:GLU:HA	5:F:215:GLU:OE1	2.21	0.41
3:D:1383:ASP:HB3	3:D:1416:ALA:H	1.85	0.41
1:B:185:ARG:NH2	3:D:689:ASP:OD1	2.54	0.41
5:P:194:LEU:HD13	5:P:194:LEU:O	2.21	0.41
5:F:335:ASP:OD1	5:F:336:GLU:N	2.54	0.41
3:D:1124:GLN:HA	3:D:1125:PRO:HD3	1.74	0.41
3:N:1289:LYS:HD3	3:N:1306:PRO:HA	2.03	0.41
3:N:654:LYS:CB	3:N:655:PRO:CD	2.92	0.41
5:F:153:PRO:HB2	5:F:154:LYS:H	1.65	0.41
2:C:491:GLU:O	2:C:492:ASP:C	2.59	0.41
2:C:549:PHE:HB3	2:C:552:HIS:CD2	2.45	0.41
3:D:26:VAL:HG11	3:D:44:LEU:HD23	2.03	0.41
3:D:178:LEU:C	3:D:180:LYS:N	2.75	0.41
2:M:139:GLN:HB3	2:M:334:ARG:CD	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:131:LYS:HG3	3:N:568:ARG:HG2	2.02	0.41
3:D:546:ARG:O	3:D:550:ARG:HG2	2.21	0.41
4:E:40:LEU:HB3	4:E:72:ARG:HE	1.86	0.41
2:C:474:VAL:HG13	2:C:529:VAL:O	2.21	0.41
5:P:88:ILE:CD1	5:P:193:ARG:HD2	2.51	0.41
3:D:481:MET:HG2	3:D:482:LYS:N	2.33	0.41
2:M:473:ARG:HG2	2:M:473:ARG:NH1	2.34	0.41
2:M:861:LEU:O	2:M:863:ASP:O	2.39	0.41
2:M:193:LEU:CD1	2:M:197:LEU:HD11	2.50	0.41
2:M:626:ARG:O	2:M:627:ARG:C	2.59	0.41
3:N:210:ARG:HH11	3:N:398:ALA:CB	2.33	0.41
3:D:675:ARG:O	3:D:678:GLU:CG	2.59	0.41
2:M:374:ASN:ND2	2:M:377:PRO:HD3	2.36	0.41
3:N:639:LEU:CD1	3:N:931:LEU:HD12	2.51	0.41
3:N:1330:ILE:HG21	3:N:1335:LEU:HD12	2.03	0.41
1:B:100:LEU:O	1:B:114:PHE:HA	2.21	0.41
1:K:104:GLU:O	1:K:105:GLY:O	2.39	0.41
3:D:78:VAL:O	3:D:79:GLU:O	2.39	0.41
2:C:775:ARG:CZ	2:C:782:ALA:HB1	2.50	0.41
2:C:343:GLN:HA	2:C:343:GLN:NE2	2.36	0.41
3:N:1336:LEU:HD11	3:N:1341:PRO:HG3	2.02	0.41
2:M:1103:ASP:O	2:M:1104:GLU:C	2.59	0.41
2:M:480:THR:HG22	2:M:482:GLU:HB3	2.02	0.41
2:M:722:ILE:HD12	2:M:823:VAL:HG21	2.02	0.41
3:D:1364:HIS:ND1	3:D:1366:LYS:HG2	2.36	0.41
3:D:1320:GLU:H	3:D:1323:GLN:NE2	2.18	0.41
3:D:1323:GLN:HA	3:D:1324:PRO:HD3	1.92	0.41
2:M:398:THR:HG23	2:M:635:THR:CG2	2.48	0.41
1:A:218:LEU:O	1:A:222:LEU:HD23	2.21	0.41
2:M:553:ASP:OD1	2:M:843:HIS:HB3	2.21	0.41
1:L:221:HIS:O	1:L:224:TYR:N	2.49	0.41
2:C:233:GLU:C	2:C:233:GLU:CD	2.79	0.41
1:A:210:ALA:O	1:A:211:LEU:C	2.59	0.41
3:D:1307:LYS:HE3	3:D:1308:GLU:HG3	2.03	0.41
2:M:389:SER:HB3	2:M:392:SER:HB3	2.02	0.41
2:M:729:LEU:HB3	2:M:730:SER:H	1.40	0.41
3:N:708:LEU:HB3	3:N:1231:GLU:HG2	2.03	0.41
2:M:684:PHE:CE2	2:M:685:GLU:HG2	2.55	0.41
2:C:708:TYR:CE2	2:C:793:PRO:CD	3.04	0.41
2:C:3:ILE:CD1	2:C:900:ARG:HB2	2.51	0.41
3:D:1296:SER:OG	3:D:1297:GLU:N	2.53	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:109:VAL:C	1:B:110:LYS:HG2	2.42	0.41
3:D:591:VAL:HG11	3:D:597:ASP:HA	2.03	0.41
1:A:33:GLY:HA3	1:A:181:VAL:CG2	2.51	0.41
2:C:464:LEU:HG	2:C:464:LEU:O	2.20	0.41
2:C:688:ILE:CG2	2:C:690:ILE:HD11	2.51	0.40
2:M:1017:THR:OG1	2:M:1019:GLN:HG3	2.21	0.40
5:F:151:LEU:HD12	5:F:155:THR:OG1	2.20	0.40
5:F:164:LYS:HA	5:F:171:LYS:CE	2.51	0.40
2:C:1058:ASP:HB2	3:D:621:LYS:HZ2	1.85	0.40
5:F:98:GLU:HG3	5:F:98:GLU:H	1.71	0.40
3:N:791:TYR:O	3:N:794:GLN:HB2	2.21	0.40
3:D:1432:LYS:H	3:D:1432:LYS:HG3	1.69	0.40
3:D:124:GLU:C	3:D:126:VAL:H	2.25	0.40
5:F:77:THR:C	5:F:80:PRO:HD2	2.42	0.40
2:M:523:ILE:C	2:M:523:ILE:CD1	2.84	0.40
3:N:426:LYS:NZ	5:P:137:GLY:O	2.46	0.40
3:N:563:PRO:CG	5:P:185:GLN:OE1	2.62	0.40
2:C:473:ARG:O	2:C:480:THR:N	2.51	0.40
3:N:169:TYR:OH	5:P:92:PRO:HD2	2.20	0.40
3:D:135:LEU:HD22	3:D:148:GLU:C	2.41	0.40
3:D:840:LYS:HD3	3:D:841:TYR:CZ	2.56	0.40
2:M:114:PHE:CZ	5:P:283:GLY:HA3	2.56	0.40
2:M:498:GLN:O	2:M:532:MET:HG3	2.21	0.40
2:C:1005:MET:CE	3:D:648:MET:HB2	2.50	0.40
3:N:859:ASP:HB2	3:N:862:ASP:HB2	2.03	0.40
3:N:1331:ASP:OD1	3:N:1333:HIS:HB2	2.21	0.40
3:N:1133:ARG:HG2	3:N:1134:LEU:O	2.21	0.40
2:M:544:THR:O	2:M:546:LEU:N	2.54	0.40
3:N:231:VAL:HB	3:N:378:ILE:HG21	2.02	0.40
2:M:443:THR:CB	2:M:444:PRO:CD	2.90	0.40
1:L:77:GLU:HA	1:L:80:LEU:CB	2.50	0.40
3:N:760:ARG:HD2	4:O:65:MET:HE1	2.02	0.40
3:D:1121:PRO:O	3:D:1122:LEU:HD12	2.21	0.40
2:M:208:ALA:CB	2:M:222:MET:SD	3.09	0.40
1:A:153:ALA:HB2	1:A:168:ASP:N	2.36	0.40
1:K:110:LYS:O	1:K:112:ARG:N	2.54	0.40
2:C:173:ASP:O	2:C:184:MET:HA	2.21	0.40
1:K:52:ALA:HB3	1:K:171:PHE:CE1	2.56	0.40
2:M:247:PRO:HA	2:M:248:PRO:HD3	1.72	0.40
3:N:1041:LEU:HD23	3:N:1041:LEU:O	2.21	0.40
1:B:225:PHE:N	1:B:225:PHE:CD1	2.89	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:66:GLN:H	3:D:66:GLN:HG2	1.44	0.40
5:F:119:ILE:HG13	5:F:119:ILE:H	1.54	0.40
3:D:804:LEU:HG	3:D:804:LEU:O	2.21	0.40
2:C:989:VAL:HG23	2:C:990:GLY:N	2.36	0.40
3:D:441:ARG:HG2	3:D:443:VAL:CG2	2.51	0.40
2:C:264:PRO:HB2	2:C:289:THR:HB	2.03	0.40
3:D:186:VAL:HG11	3:D:213:VAL:HG11	2.02	0.40
3:N:787:LEU:HA	3:N:787:LEU:HD12	1.86	0.40
3:D:914:LEU:CD2	3:D:914:LEU:C	2.85	0.40
2:C:983:ILE:CG2	3:D:946:GLY:HA2	2.52	0.40
1:A:40:LEU:O	1:A:43:ILE:N	2.55	0.40
2:C:31:GLN:OE1	2:C:40:GLU:CD	2.59	0.40
3:D:1109:GLU:OE1	3:D:1110:ALA:C	2.59	0.40
3:N:984:THR:OG1	3:N:985:ASP:N	2.53	0.40
4:E:30:LEU:O	4:E:35:PHE:CD1	2.74	0.40
2:M:1039:ALA:O	2:M:1042:ALA:HB3	2.21	0.40
3:N:754:PHE:O	3:N:755:ALA:C	2.59	0.40
1:K:207:PRO:O	1:K:208:LEU:C	2.58	0.40
3:N:1069:GLU:O	3:N:1072:ILE:HG22	2.21	0.40
2:M:1000:MET:CE	2:M:1001:VAL:H	2.34	0.40
3:D:438:ASP:OD1	3:D:440:VAL:HG23	2.22	0.40
2:C:398:THR:CA	2:C:633:GLN:HG3	2.51	0.40
1:A:132:LEU:HD12	1:A:132:LEU:N	2.36	0.40
3:D:776:GLU:HA	3:D:777:PRO:HD3	1.77	0.40
2:C:1090:LYS:HD2	3:D:90:MET:CG	2.48	0.40
1:L:176:ARG:CG	1:L:200:TRP:HB2	2.51	0.40
3:N:1046:GLN:NE2	3:N:1050:GLY:HA2	2.30	0.40
1:L:56:VAL:HG12	1:L:57:TYR:N	2.35	0.40
1:L:76:VAL:HG12	3:N:842:VAL:HG11	2.03	0.40
3:N:1332:PRO:HB2	3:N:1421:LEU:HD21	2.03	0.40
2:M:732:ALA:C	2:M:734:LEU:H	2.24	0.40
5:F:194:LEU:HD13	5:F:194:LEU:C	2.41	0.40
2:C:613:VAL:HG21	2:C:615:TYR:CZ	2.57	0.40
3:D:792:ILE:HG21	3:D:941:PHE:HD1	1.82	0.40
3:D:500:ARG:NH2	3:D:1388:ARG:NH1	2.66	0.40
3:N:1238:MET:HG3	3:N:1239:ARG:HB2	2.02	0.40
1:A:76:VAL:O	1:A:80:LEU:HB2	2.22	0.40
4:E:52:GLU:HB3	4:E:55:PHE:CE2	2.56	0.40
1:B:76:VAL:HA	1:B:79:ILE:HG12	2.01	0.40
1:A:210:ALA:O	1:A:212:ASN:N	2.54	0.40
1:K:117:VAL:O	1:K:118:ALA:C	2.60	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:137:ARG:HH11	1:A:137:ARG:HG3	1.86	0.40
2:C:243:ARG:NH1	2:C:243:ARG:HG2	2.35	0.40
1:L:15:THR:O	1:L:16:GLN:OE1	2.39	0.40
1:A:3:ASP:O	1:A:7:LYS:HB2	2.21	0.40
3:D:1385:GLY:HA3	3:D:1413:THR:HG21	2.02	0.40
5:P:207:LEU:HB3	5:P:208:SER:H	1.70	0.40
2:M:216:GLU:H	2:M:216:GLU:CD	2.24	0.40
3:N:63:TYR:CD1	3:N:63:TYR:N	2.90	0.40
3:N:56:TYR:C	3:N:80:VAL:HG21	2.41	0.40
2:C:48:PHE:O	2:C:49:ARG:C	2.59	0.40
2:C:536:PRO:O	2:C:537:LYS:C	2.60	0.40
3:D:616:GLN:C	3:D:619:LEU:HB3	2.40	0.40
4:O:54:LEU:CD2	4:O:58:PRO:HB2	2.50	0.40
3:D:1389:LEU:HG	3:D:1390:LEU:H	1.87	0.40
3:N:127:LEU:HD22	3:N:134:VAL:HG21	2.04	0.40
3:D:131:LYS:O	3:D:133:ILE:HD12	2.20	0.40
1:B:43:ILE:C	1:B:45:LEU:H	2.25	0.40
2:M:1034:GLU:OE2	3:N:618:LEU:HB3	2.22	0.40
2:M:437:ARG:HD3	2:M:467:ILE:HG22	2.03	0.40
2:M:549:PHE:CE2	2:M:887:GLU:HA	2.56	0.40
1:K:46:SER:O	1:K:47:SER:C	2.60	0.40
3:N:669:ASN:ND2	3:N:671:LYS:H	2.18	0.40
2:M:983:ILE:O	2:M:985:GLY:N	2.55	0.40
3:N:244:GLU:HB3	3:N:366:LYS:O	2.21	0.40
3:D:1480:PHE:CZ	4:E:18:ARG:NH2	2.89	0.40
3:N:609:GLY:CA	3:N:613:ARG:HB3	2.51	0.40
3:D:159:ARG:HB2	3:D:159:ARG:CZ	2.48	0.40
2:M:721:ARG:N	2:M:759:THR:O	2.54	0.40
3:N:1320:GLU:HG3	3:N:1323:GLN:HE21	1.85	0.40
2:M:774:LEU:O	2:M:774:LEU:HD13	2.21	0.40
3:D:553:ARG:O	3:D:557:LEU:HB2	2.22	0.40
3:N:1008:PHE:C	3:N:1010:ASN:N	2.73	0.40
2:C:211:LEU:HD13	2:C:304:LEU:CD1	2.51	0.40
3:D:168:THR:CG2	3:D:170:PRO:HD3	2.47	0.40
5:P:152:ASP:O	5:P:156:VAL:CG1	2.69	0.40
3:D:236:TYR:O	3:D:237:LYS:HE3	2.22	0.40
2:M:1107:ASN:CG	2:M:1108:PRO:HD2	2.42	0.40
2:C:626:ARG:HA	2:C:629:TYR:CE1	2.57	0.40
3:N:871:LYS:CE	3:N:873:LEU:HD21	2.51	0.40
1:L:26:GLU:HG2	1:L:27:PRO:N	2.36	0.40
2:C:142:ARG:NH2	2:C:147:TYR:CD1	2.89	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:936:TYR:CD2	3:D:936:TYR:C	2.93	0.40
2:C:389:SER:O	2:C:392:SER:N	2.54	0.40
5:F:93:LEU:HA	5:F:93:LEU:HD23	1.93	0.40
2:C:77:PRO:C	2:C:78:PHE:CD1	2.94	0.40
2:C:79:PRO:HD2	2:C:82:GLU:OE2	2.21	0.40
3:D:962:GLN:C	3:D:964:LEU:N	2.73	0.40
3:N:26:VAL:HG11	3:N:44:LEU:CD2	2.36	0.40
3:D:1264:GLU:O	3:D:1265:ALA:O	2.39	0.40
5:F:151:LEU:O	5:F:152:ASP:C	2.60	0.40
2:C:264:PRO:O	2:C:289:THR:OG1	2.40	0.40
3:D:616:GLN:HA	3:D:619:LEU:CB	2.41	0.40
3:N:1258:ARG:CZ	3:N:1262:LEU:CD1	2.88	0.40
1:A:34:VAL:HB	1:B:42:ARG:NH2	2.37	0.40
3:D:655:PRO:HA	3:D:658:LEU:HD12	2.03	0.40
2:C:1071:ILE:O	3:D:659:LYS:HG3	2.21	0.40
1:A:122:ILE:O	1:A:125:PRO:HD3	2.21	0.40
1:A:172:SER:HA	1:A:173:PRO:HD3	1.77	0.40
3:N:560:GLN:OE1	5:P:221:ILE:HG21	2.21	0.40
3:N:1277:ILE:CD1	3:N:1301:LYS:HB2	2.51	0.40
5:F:386:VAL:C	5:F:388:ALA:N	2.74	0.40
2:M:578:VAL:HG13	2:M:671:ASN:HB3	2.03	0.40
1:K:43:ILE:CG2	1:K:217:ILE:HD12	2.51	0.40
2:M:176:VAL:HG23	2:M:176:VAL:O	2.21	0.40
2:M:516:ARG:HE	3:N:1068:LEU:HD13	1.76	0.40
3:D:648:MET:HE2	3:D:747:VAL:HG12	2.03	0.40
3:N:798:GLU:HB3	3:N:826:PRO:HG2	2.03	0.40
2:M:963:LEU:O	2:M:967:PHE:CB	2.69	0.40
3:N:1175:ILE:O	3:N:1175:ILE:CG2	2.70	0.40
6:M:1120:STD:O6	6:M:1120:STD:C3	2.69	0.40
3:N:65:ARG:HA	3:N:65:ARG:HD2	1.91	0.40
3:N:125:GLN:HE22	3:N:587:ARG:CZ	2.34	0.40
5:F:371:LEU:CA	5:F:375:LEU:H	2.31	0.40
1:A:64:GLU:HB2	1:A:165:ILE:HG21	2.03	0.40
2:C:231:PRO:C	2:C:233:GLU:H	2.25	0.40
5:P:372:ARG:O	5:P:377:ASP:O	2.39	0.40
2:M:1107:ASN:HA	2:M:1108:PRO:HD3	1.88	0.40
5:P:332:PHE:N	5:P:332:PHE:HD1	2.19	0.40
2:M:589:ARG:HD3	2:M:596:TYR:CZ	2.56	0.40
2:C:586:ARG:CD	2:C:590:ASP:OD2	2.70	0.40
2:M:335:THR:O	2:M:339:LEU:HG	2.21	0.40
2:C:666:LEU:HD12	2:C:666:LEU:HA	1.89	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1407:LEU:HD12	3:D:1407:LEU:N	2.36	0.40
3:D:1224:VAL:HG12	3:D:1224:VAL:O	2.21	0.40
2:M:777:ILE:C	2:M:778:PHE:HD1	2.24	0.40
2:C:679:PHE:CE1	2:C:870:ILE:HD13	2.57	0.40
2:M:1054:THR:HB	2:M:1055:LEU:H	1.38	0.40
3:N:33:ASN:O	3:N:35:ARG:N	2.54	0.40
3:N:39:PRO:HB3	3:N:45:PHE:O	2.22	0.40
2:C:329:GLY:CA	2:C:488:ALA:HB3	2.52	0.40
2:C:905:ILE:HG22	2:C:906:PHE:N	2.37	0.40
4:O:26:ARG:O	4:O:26:ARG:HD2	2.21	0.40
4:O:41:GLU:N	4:O:42:PRO:CD	2.85	0.40
3:D:217:LYS:HE3	3:D:388:HIS:O	2.22	0.40
3:D:376:GLU:HB3	3:D:383:GLY:O	2.22	0.40
3:N:558:LEU:HD13	5:P:145:PRO:C	2.41	0.40
3:N:568:ARG:O	3:N:569:ASN:C	2.58	0.40
3:D:118:LEU:HD12	3:D:118:LEU:N	2.37	0.40
4:E:66:LYS:HA	4:E:66:LYS:HD3	1.95	0.40
3:N:455:ARG:CB	3:N:460:ALA:HB2	2.52	0.40
2:M:437:ARG:HH22	2:M:491:GLU:CD	2.24	0.40
2:M:1096:ALA:O	2:M:1097:LEU:O	2.40	0.40
2:M:736:ASP:C	2:M:738:ASP:N	2.74	0.40
5:F:291:ILE:HD13	5:F:304:VAL:HG13	2.00	0.40
3:N:634:GLY:O	3:N:637:LEU:HB2	2.21	0.40
3:N:602:SER:O	3:N:606:ILE:HG13	2.22	0.40
2:M:585:GLU:HB2	2:M:586:ARG:H	1.71	0.40
3:N:836:VAL:O	3:N:838:ARG:N	2.55	0.40
3:N:908:LYS:HE3	3:N:908:LYS:HB2	1.78	0.40
3:D:1434:TRP:C	3:D:1434:TRP:CD1	2.92	0.40
3:N:551:ASN:O	3:N:555:LYS:HG3	2.22	0.40
5:P:110:MET:C	5:P:112:ALA:N	2.72	0.40
1:L:13:VAL:HG22	1:L:23:PHE:HD1	1.86	0.40
2:C:805:ARG:O	2:C:806:LEU:CD2	2.69	0.40
3:N:1356:TYR:O	3:N:1361:VAL:HB	2.21	0.40
1:L:197:LEU:HD21	1:L:199:ILE:CG1	2.49	0.40
3:D:233:LYS:HZ3	3:D:237:LYS:HD2	1.86	0.40
3:D:1438:ALA:C	3:D:1440:PHE:N	2.75	0.40
2:C:816:LYS:HB2	2:C:819:VAL:HG21	2.04	0.40
3:N:871:LYS:HB3	3:N:873:LEU:HG	2.04	0.40
3:D:210:ARG:CD	3:D:398:ALA:HB3	2.51	0.40
5:F:221:ILE:O	5:F:223:ALA:N	2.54	0.40
1:L:165:ILE:HA	1:L:166:PRO:HD3	1.87	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1044:LEU:HD23	3:N:1044:LEU:HA	1.89	0.40
3:D:1429:LEU:CD2	3:D:1429:LEU:O	2.69	0.40
3:D:153:LEU:HD23	3:D:153:LEU:N	2.35	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%)	163 (72%)	48 (21%)	16 (7%)	1	7
1	B	227/315 (72%)	167 (74%)	46 (20%)	14 (6%)	2	10
1	K	227/315 (72%)	154 (68%)	45 (20%)	28 (12%)	0	2
1	L	227/315 (72%)	169 (74%)	41 (18%)	17 (8%)	1	6
2	C	1117/1119 (100%)	768 (69%)	229 (20%)	120 (11%)	0	2
2	M	1117/1119 (100%)	758 (68%)	222 (20%)	137 (12%)	0	2
3	D	1388/1524 (91%)	940 (68%)	286 (21%)	162 (12%)	0	2
3	N	1388/1524 (91%)	916 (66%)	317 (23%)	155 (11%)	0	2
4	E	93/99 (94%)	66 (71%)	17 (18%)	10 (11%)	0	2
4	O	93/99 (94%)	56 (60%)	25 (27%)	12 (13%)	0	1
5	F	341/423 (81%)	239 (70%)	57 (17%)	45 (13%)	0	1
5	P	341/423 (81%)	250 (73%)	54 (16%)	37 (11%)	0	2
All	All	6786/7590 (89%)	4646 (68%)	1387 (20%)	753 (11%)	0	2

All (753) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	118	ALA

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Mol	Chain	Res	Type
1	A	160	ASP
1	A	188	GLN
1	B	3	ASP
1	B	96	THR
1	B	160	ASP
1	B	204	SER
2	C	7	GLY
2	C	10	ARG
2	C	18	LEU
2	C	23	VAL
2	C	24	GLU
2	C	111	ASP
2	C	223	ASP
2	C	231	PRO
2	C	244	PRO
2	C	246	ASP
2	C	251	ASP
2	C	253	ALA
2	C	261	ILE
2	C	369	PRO
2	C	377	PRO
2	C	419	THR
2	C	423	ALA
2	C	425	PHE
2	C	462	ASP
2	C	550	LEU
2	C	600	ASP
2	C	627	ARG
2	C	698	ASP
2	C	727	PRO
2	C	735	ARG
2	C	738	ASP
2	C	762	LYS
2	C	767	PRO
2	C	813	VAL
2	C	864	GLY
2	C	904	PRO
2	C	905	ILE
2	C	984	GLU
2	C	1004	LYS
2	C	1045	ALA
2	C	1056	LYS

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Mol	Chain	Res	Type
2	C	1096	ALA
2	C	1113	GLU
3	D	41	ARG
3	D	49	ILE
3	D	55	ASP
3	D	69	GLU
3	D	82	LYS
3	D	110	SER
3	D	120	ALA
3	D	128	TYR
3	D	133	ILE
3	D	136	ASP
3	D	138	LYS
3	D	140	ALA
3	D	141	ILE
3	D	149	LYS
3	D	199	LEU
3	D	202	VAL
3	D	208	PRO
3	D	209	ARG
3	D	238	PRO
3	D	247	GLU
3	D	373	PRO
3	D	385	VAL
3	D	416	ALA
3	D	417	PRO
3	D	420	VAL
3	D	431	VAL
3	D	504	ASP
3	D	526	PRO
3	D	554	LEU
3	D	594	PRO
3	D	601	ARG
3	D	611	GLN
3	D	652	LEU
3	D	670	VAL
3	D	694	VAL
3	D	705	ALA
3	D	765	SER
3	D	766	ALA
3	D	783	ARG
3	D	807	ALA

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Mol	Chain	Res	Type
3	D	1028	ALA
3	D	1066	THR
3	D	1111	ASP
3	D	1114	THR
3	D	1131	SER
3	D	1152	GLU
3	D	1197	ARG
3	D	1207	TYR
3	D	1237	THR
3	D	1243	THR
3	D	1269	LYS
3	D	1287	GLU
3	D	1389	LEU
3	D	1390	LEU
3	D	1410	GLU
3	D	1430	SER
3	D	1451	ALA
3	D	1452	ILE
3	D	1504	GLU
4	E	41	GLU
4	E	42	PRO
4	E	46	PRO
5	F	75	ILE
5	F	76	SER
5	F	77	THR
5	F	97	GLU
5	F	138	SER
5	F	147	LEU
5	F	153	PRO
5	F	232	ARG
5	F	297	PRO
5	F	341	PRO
5	F	385	GLU
5	F	390	PHE
1	K	59	GLU
1	K	109	VAL
1	K	118	ALA
1	K	188	GLN
1	L	3	ASP
1	L	116	PRO
1	L	158	ILE
1	L	171	PHE

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Mol	Chain	Res	Type
2	M	12	VAL
2	M	57	GLU
2	M	80	GLN
2	M	90	TYR
2	M	111	ASP
2	M	119	PRO
2	M	152	PRO
2	M	153	ALA
2	M	170	PRO
2	M	178	PRO
2	M	223	ASP
2	M	231	PRO
2	M	244	PRO
2	M	246	ASP
2	M	251	ASP
2	M	253	ALA
2	M	261	ILE
2	M	264	PRO
2	M	265	ARG
2	M	292	ARG
2	M	419	THR
2	M	422	ARG
2	M	456	ALA
2	M	462	ASP
2	M	486	MET
2	M	500	ASN
2	M	548	PRO
2	M	574	ALA
2	M	584	GLU
2	M	586	ARG
2	M	607	ASP
2	M	626	ARG
2	M	680	ASP
2	M	684	PHE
2	M	727	PRO
2	M	762	LYS
2	M	781	LYS
2	M	784	ASP
2	M	807	ARG
2	M	1016	ILE
2	M	1045	ALA
2	M	1059	ASP

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Mol	Chain	Res	Type
2	M	1060	ILE
2	M	1097	LEU
2	M	1106	ASP
3	N	34	TYR
3	N	41	ARG
3	N	77	GLY
3	N	82	LYS
3	N	119	SER
3	N	120	ALA
3	N	130	SER
3	N	131	LYS
3	N	141	ILE
3	N	146	PRO
3	N	149	LYS
3	N	198	ARG
3	N	208	PRO
3	N	209	ARG
3	N	217	LYS
3	N	246	PRO
3	N	406	ASP
3	N	410	SER
3	N	417	PRO
3	N	430	ASP
3	N	504	ASP
3	N	594	PRO
3	N	629	SER
3	N	639	LEU
3	N	666	ILE
3	N	737	ASN
3	N	774	SER
3	N	807	ALA
3	N	822	ALA
3	N	824	ASN
3	N	832	ARG
3	N	891	GLU
3	N	922	LEU
3	N	949	ILE
3	N	1028	ALA
3	N	1049	SER
3	N	1161	GLU
3	N	1167	SER
3	N	1182	GLU

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Mol	Chain	Res	Type
3	N	1208	ASP
3	N	1215	VAL
3	N	1221	VAL
3	N	1237	THR
3	N	1239	ARG
3	N	1265	ALA
3	N	1287	GLU
3	N	1307	LYS
3	N	1308	GLU
3	N	1384	PRO
3	N	1388	ARG
4	O	17	TYR
4	O	42	PRO
4	O	82	GLU
5	P	76	SER
5	P	135	ILE
5	P	145	PRO
5	P	190	ALA
5	P	203	THR
5	P	232	ARG
5	P	236	SER
5	P	282	LEU
5	P	297	PRO
5	P	363	GLU
5	P	364	ARG
5	P	421	PHE
1	A	59	GLU
1	A	93	SER
1	A	105	GLY
1	A	116	PRO
1	A	183	ASP
1	A	187	GLY
1	B	35	THR
2	C	53	PRO
2	C	74	GLY
2	C	288	ARG
2	C	450	GLY
2	C	541	SER
2	C	551	GLU
2	C	570	PRO
2	C	598	GLU
2	C	608	GLY

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Mol	Chain	Res	Type
2	C	644	VAL
2	C	692	GLU
2	C	783	ARG
2	C	807	ARG
2	C	874	LEU
2	C	922	PHE
2	C	977	GLY
2	C	1012	PRO
2	C	1016	ILE
2	C	1080	SER
3	D	37	LEU
3	D	78	VAL
3	D	84	ILE
3	D	125	GLN
3	D	129	PHE
3	D	137	PRO
3	D	178	LEU
3	D	179	VAL
3	D	187	LYS
3	D	201	GLY
3	D	220	ARG
3	D	221	ALA
3	D	234	GLU
3	D	424	GLY
3	D	440	VAL
3	D	450	TYR
3	D	453	ASP
3	D	560	GLN
3	D	602	SER
3	D	647	ARG
3	D	826	PRO
3	D	870	GLY
3	D	1049	SER
3	D	1065	LEU
3	D	1082	ALA
3	D	1104	GLU
3	D	1115	THR
3	D	1127	GLU
3	D	1132	LEU
3	D	1196	THR
3	D	1233	GLY
3	D	1234	THR

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Mol	Chain	Res	Type
3	D	1265	ALA
3	D	1274	ILE
3	D	1307	LYS
3	D	1315	ASP
3	D	1443	THR
3	D	1470	ARG
4	E	58	PRO
4	E	71	GLY
4	E	82	GLU
5	F	148	LYS
5	F	202	TYR
5	F	204	GLY
5	F	288	TYR
5	F	295	MET
5	F	329	TYR
5	F	330	GLY
5	F	351	SER
5	F	363	GLU
5	F	374	GLY
5	F	375	LEU
5	F	386	VAL
5	F	399	GLN
1	K	4	SER
1	K	11	PHE
1	K	30	ARG
1	K	47	SER
1	K	92	PRO
1	K	105	GLY
1	K	138	LEU
1	K	162	ILE
1	K	176	ARG
1	K	215	VAL
1	K	226	SER
1	L	4	SER
1	L	11	PHE
1	L	214	ALA
1	L	224	TYR
2	M	7	GLY
2	M	29	ALA
2	M	87	ASP
2	M	105	THR
2	M	113	VAL

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Mol	Chain	Res	Type
2	M	129	ILE
2	M	187	ASN
2	M	224	GLU
2	M	267	TYR
2	M	326	ASP
2	M	328	LEU
2	M	369	PRO
2	M	415	PRO
2	M	443	THR
2	M	471	TYR
2	M	498	GLN
2	M	537	LYS
2	M	545	ASN
2	M	556	ASN
2	M	575	GLN
2	M	616	GLU
2	M	627	ARG
2	M	652	GLY
2	M	699	PHE
2	M	730	SER
2	M	745	ILE
2	M	763	GLY
2	M	765	SER
2	M	767	PRO
2	M	783	ARG
2	M	813	VAL
2	M	857	ASP
2	M	875	GLY
2	M	893	ALA
2	M	894	GLY
2	M	905	ILE
2	M	984	GLU
2	M	1004	LYS
2	M	1057	SER
2	M	1115	LEU
3	N	24	GLY
3	N	55	ASP
3	N	56	TYR
3	N	58	CYS
3	N	62	LYS
3	N	67	ARG
3	N	98	PRO

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Mol	Chain	Res	Type
3	N	137	PRO
3	N	238	PRO
3	N	241	ILE
3	N	369	ALA
3	N	415	VAL
3	N	424	GLY
3	N	449	SER
3	N	463	GLN
3	N	480	GLU
3	N	484	PRO
3	N	506	GLY
3	N	564	GLU
3	N	569	ASN
3	N	571	LYS
3	N	582	LEU
3	N	622	ARG
3	N	816	HIS
3	N	836	VAL
3	N	864	VAL
3	N	989	TYR
3	N	1064	GLY
3	N	1111	ASP
3	N	1114	THR
3	N	1125	PRO
3	N	1126	ASP
3	N	1129	THR
3	N	1156	LEU
3	N	1236	LEU
3	N	1389	LEU
3	N	1390	LEU
3	N	1394	VAL
3	N	1423	GLY
3	N	1439	SER
3	N	1461	GLY
3	N	1475	GLY
4	O	44	GLU
5	P	77	THR
5	P	115	LYS
5	P	148	LYS
5	P	168	LYS
5	P	334	PRO
5	P	346	THR

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Mol	Chain	Res	Type
5	P	347	GLN
5	P	376	ILE
5	P	416	ARG
1	A	102	LYS
1	B	30	ARG
1	B	58	ILE
1	B	118	ALA
2	C	27	ARG
2	C	31	GLN
2	C	43	GLY
2	C	48	PHE
2	C	57	GLU
2	C	152	PRO
2	C	186	VAL
2	C	188	LYS
2	C	189	ARG
2	C	224	GLU
2	C	228	ALA
2	C	273	GLY
2	C	292	ARG
2	C	363	SER
2	C	467	ILE
2	C	492	ASP
2	C	518	LYS
2	C	555	ALA
2	C	802	ARG
2	C	937	ASP
2	C	957	LYS
2	C	1020	PRO
2	C	1055	LEU
2	C	1057	SER
2	C	1071	ILE
3	D	79	GLU
3	D	119	SER
3	D	174	GLY
3	D	233	LYS
3	D	237	LYS
3	D	522	PRO
3	D	580	ALA
3	D	610	LYS
3	D	671	LYS
3	D	735	ALA

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Mol	Chain	Res	Type
3	D	799	LYS
3	D	836	VAL
3	D	893	GLU
3	D	997	THR
3	D	1136	LYS
3	D	1161	GLU
3	D	1198	TYR
3	D	1263	PHE
3	D	1341	PRO
3	D	1349	VAL
3	D	1475	GLY
4	E	87	LYS
5	F	241	TRP
5	F	264	MET
5	F	286	PRO
5	F	298	GLY
5	F	395	GLU
5	F	401	GLU
5	F	414	ARG
1	K	37	GLY
1	K	46	SER
1	K	111	ALA
1	K	214	ALA
1	L	18	ARG
1	L	59	GLU
2	M	10	ARG
2	M	190	LYS
2	M	202	TYR
2	M	273	GLY
2	M	367	LEU
2	M	458	TYR
2	M	518	LYS
2	M	585	GLU
2	M	693	GLU
2	M	735	ARG
2	M	814	GLU
2	M	856	GLU
2	M	876	VAL
2	M	1079	PRO
2	M	1108	PRO
3	N	68	PHE
3	N	83	SER

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Mol	Chain	Res	Type
3	N	85	VAL
3	N	124	GLU
3	N	135	LEU
3	N	240	GLU
3	N	368	VAL
3	N	387	LEU
3	N	451	ASP
3	N	706	PRO
3	N	784	ASP
3	N	1029	ARG
3	N	1058	ARG
3	N	1066	THR
3	N	1139	ASP
3	N	1155	VAL
3	N	1164	ARG
3	N	1197	ARG
3	N	1306	PRO
3	N	1321	ALA
3	N	1366	LYS
3	N	1435	LEU
3	N	1436	SER
4	O	16	LYS
4	O	41	GLU
4	O	46	PRO
4	O	64	ALA
5	P	110	MET
5	P	147	LEU
5	P	191	ASN
5	P	233	PHE
5	P	286	PRO
5	P	324	GLU
5	P	419	ARG
1	A	106	PRO
1	A	157	GLY
1	B	116	PRO
2	C	28	ARG
2	C	52	PHE
2	C	179	ASN
2	C	232	GLU
2	C	241	LEU
2	C	267	TYR
2	C	290	LEU

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Mol	Chain	Res	Type
2	C	293	PHE
2	C	314	THR
2	C	548	PRO
2	C	680	ASP
2	C	684	PHE
2	C	1007	ALA
2	C	1046	ALA
2	C	1062	GLY
2	C	1070	ILE
3	D	121	THR
3	D	135	LEU
3	D	146	PRO
3	D	177	ALA
3	D	483	HIS
3	D	509	PRO
3	D	587	ARG
3	D	635	PRO
3	D	808	THR
3	D	902	LEU
3	D	1040	GLY
3	D	1058	ARG
3	D	1059	SER
3	D	1385	GLY
4	E	44	GLU
5	F	190	ALA
5	F	327	SER
5	F	376	ILE
5	F	416	ARG
5	F	421	PHE
1	K	3	ASP
1	K	45	LEU
1	K	54	THR
1	K	144	VAL
2	M	53	PRO
2	M	161	SER
2	M	314	THR
2	M	780	GLU
2	M	810	ASP
2	M	916	GLU
2	M	925	TYR
2	M	929	ARG
2	M	998	TYR

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Mol	Chain	Res	Type
2	M	1056	LYS
2	M	1113	GLU
3	N	162	ARG
3	N	234	GLU
3	N	370	ALA
3	N	416	ALA
3	N	487	ALA
3	N	692	GLU
3	N	724	GLN
3	N	869	MET
3	N	1341	PRO
3	N	1351	GLU
4	O	72	ARG
5	P	165	SER
5	P	301	ALA
5	P	341	PRO
1	A	124	ASN
2	C	14	PRO
2	C	178	PRO
2	C	480	THR
2	C	502	PRO
2	C	545	ASN
2	C	780	GLU
2	C	859	PRO
2	C	1112	PHE
3	D	442	ASN
3	D	451	ASP
3	D	486	ARG
3	D	523	ASP
3	D	830	ALA
3	D	1016	PRO
3	D	1240	THR
3	D	1261	GLU
3	D	1392	GLY
3	D	1439	SER
5	F	263	HIS
5	F	367	MET
5	F	392	VAL
5	F	419	ARG
1	K	207	PRO
1	L	172	SER
1	L	173	PRO

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Mol	Chain	Res	Type
2	M	9	ILE
2	M	52	PHE
2	M	76	PRO
2	M	164	PRO
2	M	337	GLY
2	M	368	THR
2	M	700	TYR
2	M	801	VAL
2	M	821	GLU
2	M	1018	GLN
2	M	1088	LEU
3	N	29	PRO
3	N	44	LEU
3	N	177	ALA
3	N	373	PRO
3	N	471	GLU
3	N	483	HIS
3	N	565	ILE
3	N	586	ARG
3	N	754	PHE
3	N	808	THR
3	N	1009	LYS
3	N	1285	GLU
3	N	1350	GLU
3	N	1408	ILE
3	N	1459	LEU
4	O	4	PRO
5	P	151	LEU
5	P	177	ALA
5	P	235	PHE
5	P	323	ASP
1	A	125	PRO
1	A	176	ARG
1	B	39	PRO
1	B	106	PRO
2	C	155	PRO
2	C	335	THR
2	C	490	GLU
2	C	835	VAL
2	C	861	LEU
2	C	1108	PRO
3	D	44	LEU

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Mol	Chain	Res	Type
3	D	80	VAL
3	D	530	VAL
3	D	693	GLU
3	D	1019	PRO
3	D	1044	LEU
3	D	1267	ARG
3	D	1350	GLU
4	E	4	PRO
5	F	119	ILE
5	F	372	ARG
1	K	70	GLY
1	K	228	PRO
1	L	188	GLN
1	L	202	ASP
2	M	60	GLY
2	M	241	LEU
2	M	325	ILE
2	M	739	GLU
2	M	986	PRO
3	N	568	ARG
3	N	695	ILE
3	N	984	THR
3	N	1048	PRO
3	N	1414	PRO
4	O	33	HIS
2	C	201	GLY
2	C	855	VAL
2	C	1114	GLY
3	D	668	PRO
3	D	885	ILE
3	D	992	ILE
3	D	1280	VAL
5	F	145	PRO
1	K	17	GLY
1	L	76	VAL
2	M	42	VAL
2	M	452	ILE
2	M	812	GLY
3	N	1050	GLY
3	N	1452	ILE
5	P	204	GLY
1	A	9	PRO

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Mol	Chain	Res	Type
1	B	79	ILE
2	C	17	PRO
3	D	1155	VAL
2	M	15	LEU
2	M	465	GLY
3	N	530	VAL
4	O	22	VAL
5	P	368	VAL
1	B	9	PRO
3	D	981	GLY
4	E	81	PRO
5	F	397	ILE
1	L	215	VAL
2	M	182	VAL
2	M	779	GLY
3	N	226	PRO
3	N	776	GLU
3	N	1277	ILE
1	B	75	VAL
2	C	263	ASP
2	C	444	PRO
2	C	812	GLY
3	D	108	VAL
3	D	433	GLY
3	D	1277	ILE
2	M	180	GLY
2	M	186	VAL
2	M	416	GLY
3	N	1481	VAL
2	C	769	PRO
3	D	395	VAL
3	D	1067	VAL
3	D	1414	PRO
1	K	205	VAL
1	L	162	ILE
3	N	26	VAL
3	N	654	LYS
3	N	1019	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%)	171 (85%)	31 (15%)	3	16
1	B	202/273 (74%)	178 (88%)	24 (12%)	6	26
1	K	202/273 (74%)	172 (85%)	30 (15%)	4	17
1	L	202/273 (74%)	175 (87%)	27 (13%)	5	21
2	C	941/941 (100%)	829 (88%)	112 (12%)	6	26
2	M	941/941 (100%)	816 (87%)	125 (13%)	5	21
3	D	1170/1279 (92%)	972 (83%)	198 (17%)	2	13
3	N	1170/1279 (92%)	1000 (86%)	170 (14%)	4	18
4	E	83/87 (95%)	71 (86%)	12 (14%)	4	18
4	O	83/87 (95%)	72 (87%)	11 (13%)	5	21
5	F	300/370 (81%)	261 (87%)	39 (13%)	5	22
5	P	300/370 (81%)	281 (94%)	19 (6%)	22	60
All	All	5796/6446 (90%)	4998 (86%)	798 (14%)	4	20

All (798) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	5	LYS
1	A	18	ARG
1	A	19	GLU
1	A	20	TYR
1	A	26	GLU
1	A	51	THR
1	A	62	LEU
1	A	73	GLU
1	A	84	GLU
1	A	88	ARG
1	A	92	PRO
1	A	95	GLN
1	A	96	THR
1	A	112	ARG

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Mol	Chain	Res	Type
1	A	114	PHE
1	A	119	ASP
1	A	127	LEU
1	A	134	GLU
1	A	143	ARG
1	A	145	ASP
1	A	146	ARG
1	A	160	ASP
1	A	168	ASP
1	A	179	PHE
1	A	183	ASP
1	A	185	ARG
1	A	193	ASP
1	A	196	THR
1	A	197	LEU
1	A	219	ARG
1	A	227	ASN
1	B	2	LEU
1	B	3	ASP
1	B	5	LYS
1	B	19	GLU
1	B	20	TYR
1	B	29	GLU
1	B	38	ASN
1	B	62	LEU
1	B	112	ARG
1	B	115	LEU
1	B	119	ASP
1	B	124	ASN
1	B	140	MET
1	B	146	ARG
1	B	156	HIS
1	B	160	ASP
1	B	170	VAL
1	B	188	GLN
1	B	189	ARG
1	B	196	THR
1	B	208	LEU
1	B	213	GLN
1	B	219	ARG
1	B	225	PHE
2	C	5	ARG

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Mol	Chain	Res	Type
2	C	9	ILE
2	C	26	TYR
2	C	41	ASN
2	C	48	PHE
2	C	49	ARG
2	C	52	PHE
2	C	71	TYR
2	C	81	ASP
2	C	88	LEU
2	C	95	TYR
2	C	111	ASP
2	C	115	LEU
2	C	124	ASP
2	C	157	ARG
2	C	158	TYR
2	C	168	ARG
2	C	178	PRO
2	C	185	LYS
2	C	188	LYS
2	C	197	LEU
2	C	198	ARG
2	C	202	TYR
2	C	203	ASP
2	C	209	ARG
2	C	221	LEU
2	C	230	ARG
2	C	233	GLU
2	C	251	ASP
2	C	256	TYR
2	C	263	ASP
2	C	266	ARG
2	C	290	LEU
2	C	297	GLU
2	C	359	MET
2	C	376	ARG
2	C	383	ARG
2	C	407	LYS
2	C	413	LEU
2	C	420	ARG
2	C	421	GLU
2	C	425	PHE
2	C	426	ASP

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Mol	Chain	Res	Type
2	C	427	VAL
2	C	433	THR
2	C	455	LEU
2	C	469	THR
2	C	472	ARG
2	C	475	VAL
2	C	503	LEU
2	C	507	ARG
2	C	514	VAL
2	C	523	ILE
2	C	526	PRO
2	C	527	GLU
2	C	551	GLU
2	C	562	SER
2	C	564	MET
2	C	578	VAL
2	C	589	ARG
2	C	607	ASP
2	C	609	ASN
2	C	617	ASP
2	C	633	GLN
2	C	637	LEU
2	C	640	ARG
2	C	650	ARG
2	C	671	ASN
2	C	672	VAL
2	C	679	PHE
2	C	685	GLU
2	C	689	VAL
2	C	699	PHE
2	C	701	THR
2	C	713	ARG
2	C	723	THR
2	C	725	ASP
2	C	727	PRO
2	C	737	LEU
2	C	766	GLU
2	C	799	ILE
2	C	826	TYR
2	C	831	ARG
2	C	841	ASN
2	C	859	PRO

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Mol	Chain	Res	Type
2	C	861	LEU
2	C	863	ASP
2	C	865	THR
2	C	881	ASN
2	C	888	THR
2	C	892	LEU
2	C	900	ARG
2	C	904	PRO
2	C	916	GLU
2	C	928	LYS
2	C	937	ASP
2	C	963	LEU
2	C	966	LEU
2	C	975	TYR
2	C	978	ARG
2	C	979	THR
2	C	1008	ARG
2	C	1015	LEU
2	C	1016	ILE
2	C	1036	GLU
2	C	1051	GLU
2	C	1052	MET
2	C	1054	THR
2	C	1081	VAL
2	C	1092	LEU
2	C	1103	ASP
2	C	1115	LEU
3	D	15	PRO
3	D	25	GLU
3	D	57	GLU
3	D	66	GLN
3	D	73	CYS
3	D	89	ARG
3	D	102	ILE
3	D	112	ILE
3	D	115	LEU
3	D	122	GLU
3	D	123	LEU
3	D	138	LYS
3	D	141	ILE
3	D	142	LEU
3	D	143	ASN

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Mol	Chain	Res	Type
3	D	145	VAL
3	D	149	LYS
3	D	152	LEU
3	D	153	LEU
3	D	155	ASP
3	D	171	LEU
3	D	179	VAL
3	D	189	GLN
3	D	199	LEU
3	D	200	ASP
3	D	208	PRO
3	D	209	ARG
3	D	217	LYS
3	D	218	LYS
3	D	223	LEU
3	D	224	ARG
3	D	225	LEU
3	D	236	TYR
3	D	237	LYS
3	D	245	LEU
3	D	249	TYR
3	D	250	LEU
3	D	365	ASP
3	D	366	LYS
3	D	367	ILE
3	D	376	GLU
3	D	377	VAL
3	D	378	ILE
3	D	387	LEU
3	D	388	HIS
3	D	408	GLU
3	D	423	ASP
3	D	432	TYR
3	D	438	ASP
3	D	445	ARG
3	D	447	VAL
3	D	450	TYR
3	D	453	ASP
3	D	456	MET
3	D	486	ARG
3	D	511	TRP
3	D	513	ILE

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Mol	Chain	Res	Type
3	D	528	VAL
3	D	535	PHE
3	D	539	ASP
3	D	549	ASN
3	D	554	LEU
3	D	565	ILE
3	D	569	ASN
3	D	571	LYS
3	D	576	GLU
3	D	579	ASP
3	D	583	ASP
3	D	591	VAL
3	D	592	THR
3	D	594	PRO
3	D	597	ASP
3	D	604	THR
3	D	605	ASP
3	D	606	ILE
3	D	611	GLN
3	D	619	LEU
3	D	621	LYS
3	D	625	TYR
3	D	635	PRO
3	D	637	LEU
3	D	641	GLN
3	D	642	CYS
3	D	644	LEU
3	D	651	GLU
3	D	653	PHE
3	D	655	PRO
3	D	661	MET
3	D	662	GLU
3	D	676	MET
3	D	688	TRP
3	D	695	ILE
3	D	701	LEU
3	D	703	ASN
3	D	710	ARG
3	D	716	PHE
3	D	717	GLN
3	D	749	VAL
3	D	764	LEU

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Mol	Chain	Res	Type
3	D	778	LEU
3	D	781	PRO
3	D	783	ARG
3	D	792	ILE
3	D	794	GLN
3	D	796	ARG
3	D	804	LEU
3	D	808	THR
3	D	813	LEU
3	D	828	LYS
3	D	829	VAL
3	D	834	THR
3	D	858	VAL
3	D	859	ASP
3	D	861	GLN
3	D	863	VAL
3	D	867	ARG
3	D	868	TYR
3	D	875	THR
3	D	880	ILE
3	D	890	VAL
3	D	892	ASP
3	D	897	TRP
3	D	899	LEU
3	D	902	LEU
3	D	911	LEU
3	D	919	PHE
3	D	920	LEU
3	D	936	TYR
3	D	940	THR
3	D	947	ILE
3	D	951	ILE
3	D	956	ILE
3	D	969	ARG
3	D	972	LEU
3	D	985	ASP
3	D	988	ARG
3	D	1001	GLU
3	D	1020	LEU
3	D	1039	CYS
3	D	1042	ARG
3	D	1044	LEU

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Mol	Chain	Res	Type
3	D	1046	GLN
3	D	1052	THR
3	D	1055	VAL
3	D	1062	ARG
3	D	1068	LEU
3	D	1074	SER
3	D	1093	TYR
3	D	1109	GLU
3	D	1130	ARG
3	D	1134	LEU
3	D	1136	LYS
3	D	1137	ARG
3	D	1151	ARG
3	D	1152	GLU
3	D	1161	GLU
3	D	1164	ARG
3	D	1167	SER
3	D	1172	HIS
3	D	1182	GLU
3	D	1189	ARG
3	D	1191	PRO
3	D	1195	GLN
3	D	1197	ARG
3	D	1204	CYS
3	D	1207	TYR
3	D	1211	MET
3	D	1213	ARG
3	D	1223	ILE
3	D	1231	GLU
3	D	1234	THR
3	D	1251	ASP
3	D	1274	ILE
3	D	1285	GLU
3	D	1304	LYS
3	D	1307	LYS
3	D	1311	LEU
3	D	1314	LYS
3	D	1315	ASP
3	D	1323	GLN
3	D	1346	ARG
3	D	1350	GLU
3	D	1353	GLN

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Mol	Chain	Res	Type
3	D	1359	GLN
3	D	1363	LEU
3	D	1376	MET
3	D	1389	LEU
3	D	1396	GLU
3	D	1403	LEU
3	D	1410	GLU
3	D	1432	LYS
3	D	1434	TRP
3	D	1441	GLN
3	D	1442	ASN
3	D	1447	LEU
3	D	1483	PHE
3	D	1487	VAL
3	D	1492	LEU
4	E	10	PHE
4	E	13	VAL
4	E	23	VAL
4	E	28	GLN
4	E	35	PHE
4	E	40	LEU
4	E	46	PRO
4	E	59	ASN
4	E	61	GLU
4	E	77	GLU
4	E	78	ASN
4	E	81	PRO
5	F	76	SER
5	F	97	GLU
5	F	125	ASP
5	F	136	LEU
5	F	148	LYS
5	F	149	GLU
5	F	152	ASP
5	F	172	ARG
5	F	174	LEU
5	F	187	LEU
5	F	192	LEU
5	F	220	LEU
5	F	229	TYR
5	F	232	ARG
5	F	234	LYS

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Mol	Chain	Res	Type
5	F	245	GLN
5	F	249	ARG
5	F	256	ARG
5	F	272	SER
5	F	280	GLN
5	F	282	LEU
5	F	295	MET
5	F	318	GLU
5	F	321	ILE
5	F	328	PHE
5	F	329	TYR
5	F	335	ASP
5	F	336	GLU
5	F	341	PRO
5	F	347	GLN
5	F	349	LEU
5	F	363	GLU
5	F	364	ARG
5	F	377	ASP
5	F	398	ARG
5	F	399	GLN
5	F	405	LEU
5	F	410	TYR
5	F	419	ARG
1	K	19	GLU
1	K	26	GLU
1	K	38	ASN
1	K	47	SER
1	K	73	GLU
1	K	74	ASP
1	K	88	ARG
1	K	95	GLN
1	K	96	THR
1	K	113	ASP
1	K	115	LEU
1	K	124	ASN
1	K	138	LEU
1	K	146	ARG
1	K	148	VAL
1	K	156	HIS
1	K	159	LYS
1	K	161	ARG

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Mol	Chain	Res	Type
1	K	163	ASN
1	K	165	ILE
1	K	185	ARG
1	K	188	GLN
1	K	189	ARG
1	K	193	ASP
1	K	194	LYS
1	K	196	THR
1	K	205	VAL
1	K	206	THR
1	K	219	ARG
1	K	222	LEU
1	L	1	MET
1	L	2	LEU
1	L	5	LYS
1	L	9	PRO
1	L	12	THR
1	L	16	GLN
1	L	19	GLU
1	L	29	GLU
1	L	38	ASN
1	L	51	THR
1	L	62	LEU
1	L	77	GLU
1	L	95	GLN
1	L	112	ARG
1	L	115	LEU
1	L	124	ASN
1	L	126	ASP
1	L	140	MET
1	L	154	GLU
1	L	175	ARG
1	L	193	ASP
1	L	196	THR
1	L	200	TRP
1	L	201	THR
1	L	202	ASP
1	L	206	THR
1	L	213	GLN
2	M	6	PHE
2	M	9	ILE
2	M	20	GLU

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Mol	Chain	Res	Type
2	M	24	GLU
2	M	27	ARG
2	M	52	PHE
2	M	57	GLU
2	M	64	LEU
2	M	65	VAL
2	M	77	PRO
2	M	82	GLU
2	M	104	ASP
2	M	107	LEU
2	M	115	LEU
2	M	134	ARG
2	M	144	PRO
2	M	154	ARG
2	M	158	TYR
2	M	168	ARG
2	M	170	PRO
2	M	173	ASP
2	M	184	MET
2	M	186	VAL
2	M	190	LYS
2	M	198	ARG
2	M	203	ASP
2	M	209	ARG
2	M	221	LEU
2	M	230	ARG
2	M	242	LEU
2	M	243	ARG
2	M	249	LYS
2	M	256	TYR
2	M	266	ARG
2	M	269	LEU
2	M	275	TYR
2	M	281	LEU
2	M	288	ARG
2	M	290	LEU
2	M	301	GLU
2	M	321	GLU
2	M	325	ILE
2	M	328	LEU
2	M	343	GLN
2	M	359	MET

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Mol	Chain	Res	Type
2	M	383	ARG
2	M	394	PHE
2	M	420	ARG
2	M	425	PHE
2	M	426	ASP
2	M	433	THR
2	M	441	VAL
2	M	455	LEU
2	M	485	TYR
2	M	486	MET
2	M	492	ASP
2	M	503	LEU
2	M	507	ARG
2	M	511	GLU
2	M	512	ARG
2	M	520	GLU
2	M	523	ILE
2	M	533	ASP
2	M	537	LYS
2	M	548	PRO
2	M	554	ASP
2	M	559	LEU
2	M	564	MET
2	M	571	LEU
2	M	584	GLU
2	M	585	GLU
2	M	586	ARG
2	M	607	ASP
2	M	614	ARG
2	M	627	ARG
2	M	628	PHE
2	M	630	ARG
2	M	633	GLN
2	M	650	ARG
2	M	670	GLN
2	M	673	LEU
2	M	677	MET
2	M	689	VAL
2	M	691	SER
2	M	698	ASP
2	M	699	PHE
2	M	722	ILE

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Mol	Chain	Res	Type
2	M	727	PRO
2	M	738	ASP
2	M	745	ILE
2	M	762	LYS
2	M	766	GLU
2	M	768	THR
2	M	771	GLU
2	M	799	ILE
2	M	807	ARG
2	M	820	ARG
2	M	821	GLU
2	M	837	ASP
2	M	868	ASP
2	M	881	ASN
2	M	886	LEU
2	M	897	LEU
2	M	903	SER
2	M	911	GLU
2	M	925	TYR
2	M	934	PHE
2	M	939	ARG
2	M	950	LEU
2	M	958	THR
2	M	959	PRO
2	M	962	GLN
2	M	971	LYS
2	M	979	THR
2	M	984	GLU
2	M	988	VAL
2	M	1005	MET
2	M	1016	ILE
2	M	1020	PRO
2	M	1052	MET
2	M	1054	THR
2	M	1064	ASN
2	M	1095	LEU
2	M	1104	GLU
2	M	1115	LEU
3	N	3	LYS
3	N	6	ARG
3	N	30	GLU
3	N	63	TYR

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Mol	Chain	Res	Type
3	N	68	PHE
3	N	73	CYS
3	N	75	ARG
3	N	76	CYS
3	N	84	ILE
3	N	103	TRP
3	N	107	ASP
3	N	121	THR
3	N	123	LEU
3	N	126	VAL
3	N	128	TYR
3	N	142	LEU
3	N	143	ASN
3	N	149	LYS
3	N	153	LEU
3	N	154	THR
3	N	156	GLU
3	N	171	LEU
3	N	199	LEU
3	N	205	TYR
3	N	206	ARG
3	N	208	PRO
3	N	216	VAL
3	N	217	LYS
3	N	218	LYS
3	N	224	ARG
3	N	225	LEU
3	N	227	LEU
3	N	230	TRP
3	N	232	GLU
3	N	241	ILE
3	N	249	TYR
3	N	367	ILE
3	N	376	GLU
3	N	378	ILE
3	N	387	LEU
3	N	393	ILE
3	N	394	LEU
3	N	406	ASP
3	N	434	ARG
3	N	450	TYR
3	N	456	MET

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Mol	Chain	Res	Type
3	N	502	PHE
3	N	503	LEU
3	N	505	SER
3	N	523	ASP
3	N	525	ARG
3	N	537	THR
3	N	554	LEU
3	N	564	GLU
3	N	569	ASN
3	N	576	GLU
3	N	583	ASP
3	N	594	PRO
3	N	600	LEU
3	N	601	ARG
3	N	605	ASP
3	N	629	SER
3	N	642	CYS
3	N	650	LEU
3	N	651	GLU
3	N	675	ARG
3	N	676	MET
3	N	681	ARG
3	N	689	ASP
3	N	692	GLU
3	N	693	GLU
3	N	702	LEU
3	N	703	ASN
3	N	704	ARG
3	N	710	ARG
3	N	717	GLN
3	N	732	VAL
3	N	736	PHE
3	N	749	VAL
3	N	754	PHE
3	N	760	ARG
3	N	763	MET
3	N	769	LEU
3	N	783	ARG
3	N	784	ASP
3	N	785	ILE
3	N	787	LEU
3	N	794	GLN

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Mol	Chain	Res	Type
3	N	796	ARG
3	N	799	LYS
3	N	820	GLU
3	N	828	LYS
3	N	829	VAL
3	N	832	ARG
3	N	833	GLU
3	N	836	VAL
3	N	838	ARG
3	N	845	ASN
3	N	862	ASP
3	N	879	ARG
3	N	892	ASP
3	N	893	GLU
3	N	897	TRP
3	N	899	LEU
3	N	903	ASP
3	N	927	THR
3	N	936	TYR
3	N	943	THR
3	N	947	ILE
3	N	951	ILE
3	N	968	ASP
3	N	986	ARG
3	N	988	ARG
3	N	990	ASP
3	N	991	GLN
3	N	997	THR
3	N	1001	GLU
3	N	1003	VAL
3	N	1012	GLU
3	N	1041	LEU
3	N	1045	MET
3	N	1046	GLN
3	N	1058	ARG
3	N	1062	ARG
3	N	1066	THR
3	N	1068	LEU
3	N	1078	ARG
3	N	1108	ARG
3	N	1109	GLU
3	N	1116	ASN

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Mol	Chain	Res	Type
3	N	1117	TYR
3	N	1122	LEU
3	N	1127	GLU
3	N	1135	ARG
3	N	1139	ASP
3	N	1152	GLU
3	N	1166	LEU
3	N	1168	MET
3	N	1189	ARG
3	N	1190	SER
3	N	1201	CYS
3	N	1207	TYR
3	N	1208	ASP
3	N	1211	MET
3	N	1219	GLU
3	N	1223	ILE
3	N	1231	GLU
3	N	1234	THR
3	N	1241	PHE
3	N	1252	ILE
3	N	1282	ARG
3	N	1290	LEU
3	N	1304	LYS
3	N	1314	LYS
3	N	1315	ASP
3	N	1327	ARG
3	N	1346	ARG
3	N	1379	VAL
3	N	1388	ARG
3	N	1389	LEU
3	N	1390	LEU
3	N	1396	GLU
3	N	1410	GLU
3	N	1412	LYS
3	N	1432	LYS
3	N	1442	ASN
3	N	1472	ILE
3	N	1478	SER
3	N	1485	GLN
3	N	1492	LEU
4	O	10	PHE
4	O	32	ARG

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Mol	Chain	Res	Type
4	O	42	PRO
4	O	44	GLU
4	O	51	LEU
4	O	59	ASN
4	O	66	LYS
4	O	70	THR
4	O	79	LEU
4	O	81	PRO
4	O	83	ASP
5	P	128	ARG
5	P	134	LYS
5	P	152	ASP
5	P	245	GLN
5	P	285	GLU
5	P	286	PRO
5	P	302	LYS
5	P	318	GLU
5	P	324	GLU
5	P	336	GLU
5	P	337	HIS
5	P	341	PRO
5	P	365	GLU
5	P	372	ARG
5	P	394	ARG
5	P	398	ARG
5	P	408	LEU
5	P	410	TYR
5	P	421	PHE

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (168) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	38	ASN
1	A	63	HIS
1	A	95	GLN
1	A	124	ASN
1	A	156	HIS
1	A	163	ASN
1	A	180	GLN
1	A	212	ASN
1	A	227	ASN
1	B	38	ASN

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Mol	Chain	Res	Type
1	B	63	HIS
1	B	95	GLN
1	B	124	ASN
1	B	156	HIS
1	B	163	ASN
1	B	212	ASN
1	B	221	HIS
1	B	229	GLN
2	C	22	GLN
2	C	31	GLN
2	C	41	ASN
2	C	45	GLN
2	C	91	GLN
2	C	102	HIS
2	C	141	HIS
2	C	179	ASN
2	C	343	GLN
2	C	406	HIS
2	C	431	HIS
2	C	434	HIS
2	C	538	GLN
2	C	545	ASN
2	C	563	ASN
2	C	632	ASN
2	C	633	GLN
2	C	663	ASN
2	C	671	ASN
2	C	704	HIS
2	C	829	GLN
2	C	834	GLN
2	C	841	ASN
2	C	860	HIS
2	C	881	ASN
2	C	889	HIS
2	C	969	GLN
2	C	1030	GLN
2	C	1100	GLN
2	C	1107	ASN
3	D	151	GLN
3	D	166	GLN
3	D	442	ASN
3	D	462	GLN

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Mol	Chain	Res	Type
3	D	507	ASN
3	D	560	GLN
3	D	575	GLN
3	D	703	ASN
3	D	709	HIS
3	D	714	GLN
3	D	717	GLN
3	D	727	GLN
3	D	756	GLN
3	D	794	GLN
3	D	855	HIS
3	D	973	GLN
3	D	994	GLN
3	D	1046	GLN
3	D	1103	HIS
3	D	1323	GLN
3	D	1334	GLN
3	D	1353	GLN
3	D	1359	GLN
3	D	1374	GLN
3	D	1404	ASN
3	D	1441	GLN
3	D	1485	GLN
3	D	1489	GLN
4	E	28	GLN
5	F	83	GLN
5	F	90	GLN
5	F	161	GLN
5	F	191	ASN
5	F	277	GLN
5	F	312	GLN
1	K	63	HIS
1	K	95	GLN
1	K	124	ASN
1	K	156	HIS
1	K	180	GLN
1	K	188	GLN
1	K	212	ASN
1	K	229	GLN
1	L	95	GLN
1	L	124	ASN
1	L	163	ASN

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Mol	Chain	Res	Type
1	L	212	ASN
1	L	221	HIS
2	M	91	GLN
2	M	117	HIS
2	M	130	ASN
2	M	139	GLN
2	M	343	GLN
2	M	393	GLN
2	M	431	HIS
2	M	506	ASN
2	M	538	GLN
2	M	543	ASN
2	M	552	HIS
2	M	563	ASN
2	M	575	GLN
2	M	609	ASN
2	M	632	ASN
2	M	639	GLN
2	M	663	ASN
2	M	670	GLN
2	M	671	ASN
2	M	704	HIS
2	M	829	GLN
2	M	834	GLN
2	M	841	ASN
2	M	845	ASN
2	M	881	ASN
2	M	889	HIS
2	M	899	GLN
2	M	920	GLN
2	M	999	HIS
2	M	1019	GLN
2	M	1026	GLN
2	M	1064	ASN
2	M	1100	GLN
3	N	101	HIS
3	N	125	GLN
3	N	151	GLN
3	N	166	GLN
3	N	529	GLN
3	N	549	ASN
3	N	551	ASN

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Mol	Chain	Res	Type
3	N	575	GLN
3	N	636	GLN
3	N	641	GLN
3	N	703	ASN
3	N	714	GLN
3	N	727	GLN
3	N	756	GLN
3	N	768	ASN
3	N	794	GLN
3	N	1031	ASN
3	N	1034	GLN
3	N	1046	GLN
3	N	1075	HIS
3	N	1116	ASN
3	N	1184	GLN
3	N	1195	GLN
3	N	1202	GLN
3	N	1227	GLN
3	N	1323	GLN
3	N	1334	GLN
3	N	1359	GLN
3	N	1485	GLN
3	N	1489	GLN
4	O	28	GLN
4	O	29	GLN
4	O	59	ASN
4	O	86	GLN
5	P	86	HIS
5	P	214	GLN
5	P	217	ASN
5	P	218	GLN
5	P	347	GLN

### 5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

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

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

## 5.5 Carbohydrates [i](#)

There are no carbohydrates in this entry.

## 5.6 Ligand geometry [i](#)

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

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

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\# Z  > 2$	Counts	RMSZ	$\# Z  > 2$
6	STD	D	1525	-	43,47,47	2.30	15 (34%)	41,73,73	1.65	6 (14%)
6	STD	M	1120	-	43,47,47	2.05	13 (30%)	41,73,73	2.08	9 (21%)

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

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
6	STD	D	1525	-	-	0/31/101/101	0/2/5/5
6	STD	M	1120	-	-	0/31/101/101	0/2/5/5

All (28) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	M	1120	STD	O9-C28	-4.34	1.37	1.43
6	D	1525	STD	O9-C28	-3.35	1.38	1.43
6	D	1525	STD	C4-N1	-2.39	1.42	1.45
6	M	1120	STD	C20-N1	2.08	1.50	1.47
6	D	1525	STD	C28-C32	2.09	1.53	1.50
6	D	1525	STD	C27-C25	2.10	1.56	1.51
6	M	1120	STD	O6-C22	2.14	1.27	1.23
6	D	1525	STD	O4-C4	2.25	1.45	1.42
6	D	1525	STD	O1-C3	2.43	1.26	1.22
6	M	1120	STD	O8-C17	2.44	1.46	1.44
6	M	1120	STD	C17-C30	2.51	1.53	1.49

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	D	1525	STD	C17-C30	2.58	1.54	1.49
6	M	1120	STD	C15-C26	2.64	1.55	1.52
6	M	1120	STD	C16-C13	2.98	1.60	1.53
6	M	1120	STD	O5-C19	3.17	1.45	1.42
6	D	1525	STD	O8-C17	3.22	1.47	1.44
6	M	1120	STD	C22-N2	3.46	1.37	1.33
6	M	1120	STD	O4-C4	3.55	1.47	1.42
6	D	1525	STD	C15-C26	3.63	1.57	1.52
6	M	1120	STD	O8-C19	3.64	1.46	1.42
6	D	1525	STD	C16-C13	3.65	1.61	1.53
6	M	1120	STD	C26-C25	3.65	1.59	1.52
6	D	1525	STD	C26-C25	4.10	1.60	1.52
6	D	1525	STD	O8-C19	4.59	1.46	1.42
6	D	1525	STD	C16-C17	4.69	1.57	1.53
6	D	1525	STD	O5-C19	4.91	1.47	1.42
6	M	1120	STD	C16-C17	4.96	1.58	1.53
6	D	1525	STD	C22-N2	5.07	1.40	1.33

All (15) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	D	1525	STD	C29-C19-C28	-5.33	108.73	113.33
6	M	1120	STD	C29-C19-C28	-4.90	109.10	113.33
6	M	1120	STD	O8-C17-C30	-2.62	109.04	111.69
6	D	1525	STD	O8-C17-C30	-2.34	109.33	111.69
6	M	1120	STD	C6-C7-C8	-2.32	122.68	126.22
6	D	1525	STD	C18-C16-C17	-2.20	108.36	111.61
6	M	1120	STD	O1-C3-C1	-2.11	122.67	128.37
6	M	1120	STD	O4-C25-C27	2.03	111.08	106.64
6	D	1525	STD	O6-C22-C21	2.20	125.65	120.56
6	M	1120	STD	C6-C5-C1	2.65	127.01	124.36
6	M	1120	STD	C19-O5-C13	3.31	116.58	112.94
6	D	1525	STD	O8-C19-C29	4.20	108.87	105.65
6	D	1525	STD	C19-O5-C13	4.35	117.72	112.94
6	M	1120	STD	O8-C19-C29	5.50	109.86	105.65
6	M	1120	STD	O4-C4-N1	7.03	113.28	105.72

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

2 monomers are involved in 18 short contacts:



Mol	Chain	Res	Type	Clashes	Symm-Clashes
6	D	1525	STD	10	0
6	M	1120	STD	8	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(Å <sup>2</sup> )	Q<0.9
1	A	229/315 (72%)	-0.57	1 (0%) 93 80	32, 58, 89, 110	0
1	B	229/315 (72%)	-0.50	1 (0%) 93 80	45, 96, 120, 124	0
1	K	229/315 (72%)	-0.54	0 100 100	24, 57, 82, 111	0
1	L	229/315 (72%)	-0.61	0 100 100	43, 78, 96, 117	0
2	C	1119/1119 (100%)	-0.54	6 (0%) 91 76	21, 67, 123, 137	0
2	M	1119/1119 (100%)	-0.53	4 (0%) 93 80	21, 69, 120, 130	0
3	D	1392/1524 (91%)	-0.51	10 (0%) 89 70	20, 64, 107, 125	0
3	N	1392/1524 (91%)	-0.46	20 (1%) 78 51	20, 64, 125, 140	0
4	E	95/99 (95%)	-0.55	0 100 100	52, 82, 99, 102	0
4	O	95/99 (95%)	-0.51	0 100 100	46, 86, 114, 119	0
5	F	345/423 (81%)	-0.56	1 (0%) 94 84	53, 77, 97, 104	0
5	P	345/423 (81%)	-0.56	1 (0%) 94 84	47, 81, 97, 108	0
All	All	6818/7590 (89%)	-0.52	44 (0%) 90 73	20, 69, 118, 140	0

All (44) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
3	N	406	ASP	5.9
3	D	205	TYR	5.7
3	D	802	ALA	5.6
3	D	801	GLY	5.1
3	N	224	ARG	4.4
2	M	267	TYR	4.3
3	D	410	SER	4.1
2	C	211	LEU	3.9
3	N	425	GLY	3.8
3	D	1398	TRP	3.5
2	C	196	LEU	3.4

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Mol	Chain	Res	Type	RSRZ
3	N	112	ILE	3.2
3	N	199	LEU	3.2
3	N	424	GLY	3.2
3	N	381	ALA	3.1
3	N	1398	TRP	3.1
3	N	387	LEU	2.9
3	N	412	GLY	2.9
3	N	1251	ASP	2.8
3	D	1245	GLY	2.8
3	N	1240	THR	2.7
3	D	1244	GLY	2.7
3	D	128	TYR	2.6
2	C	186	VAL	2.6
3	N	128	TYR	2.6
3	N	371	ILE	2.5
3	D	428	LYS	2.4
2	M	222	MET	2.4
3	N	1241	PHE	2.4
2	C	267	TYR	2.4
3	N	388	HIS	2.4
3	D	1241	PHE	2.3
3	N	413	ASP	2.3
3	N	178	LEU	2.3
5	F	95	THR	2.3
3	N	186	VAL	2.2
2	C	271	GLU	2.1
1	B	1	MET	2.1
2	M	186	VAL	2.1
2	M	516	ARG	2.1
2	C	115	LEU	2.1
3	N	409	VAL	2.1
1	A	1	MET	2.0
5	P	95	THR	2.0

## 6.2 Non-standard residues in protein, DNA, RNA chains ⓘ

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

## 6.3 Carbohydrates ⓘ

There are no carbohydrates in this entry.

## 6.4 Ligands

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(Å <sup>2</sup> )	Q<0.9
7	ZN	N	9003	1/1	0.99	0.24	4.33	55,55,55,55	0
7	ZN	N	9004	1/1	0.99	0.23	1.07	56,56,56,56	0
7	ZN	D	9001	1/1	0.99	0.20	0.52	56,56,56,56	0
7	ZN	D	9002	1/1	0.98	0.22	0.46	47,47,47,47	0
6	STD	M	1120	43/43	0.92	0.20	0.05	39,51,53,56	0
6	STD	D	1525	43/43	0.95	0.17	-0.32	39,59,62,63	0
8	MG	D	9901	1/1	0.97	0.13	-	20,20,20,20	0
8	MG	N	9902	1/1	0.96	0.22	-	30,30,30,30	0

## 6.5 Other polymers

There are no such residues in this entry.