



Full wwPDB X-ray Structure Validation Report ⓘ

Feb 1, 2016 – 10:07 PM GMT

PDB ID : 4WQT
Title : Thermus thermophilus RNA polymerase complexed with an RNA cleavage stimulating factor (a GreA/Gfh1 chimeric protein)
Authors : Murayama, Y.; Sekine, S.; Yokoyama, S.
Deposited on : 2014-10-22
Resolution : 4.40 Å(reported)

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

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

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

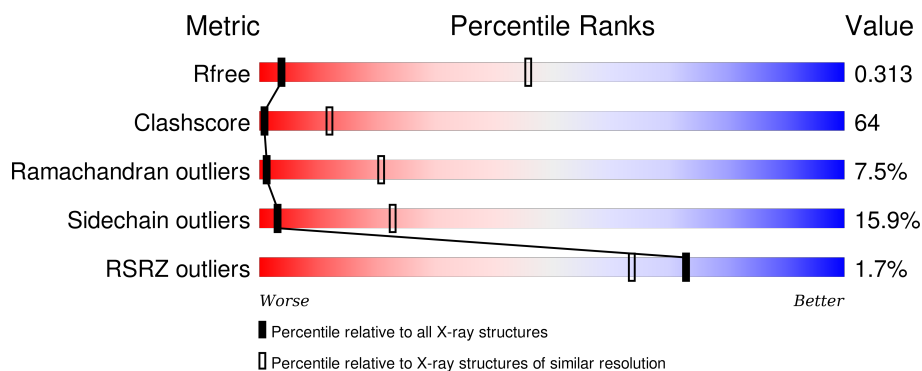
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 4.40 Å.

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



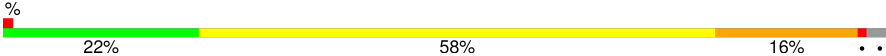
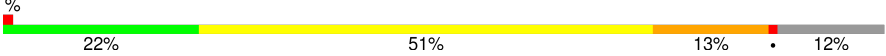
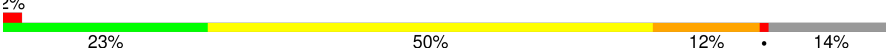
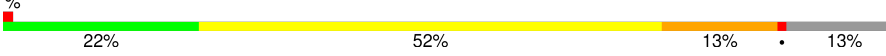

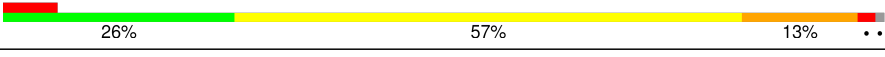
Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
R_{free}	91344	1067 (5.20-3.60)
Clashscore	102246	1175 (5.20-3.60)
Ramachandran outliers	100387	1114 (5.20-3.60)
Sidechain outliers	100360	1096 (5.20-3.60)
RSRZ outliers	91569	1071 (5.20-3.60)

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

Mol	Chain	Length	Quality of chain
1	A	315	<div> <div>17%</div> <div>43%</div> <div>10%</div> <div>29%</div> </div>
1	B	315	<div> <div>17%</div> <div>44%</div> <div>10%</div> <div>29%</div> </div>
1	F	315	<div> <div>19%</div> <div>39%</div> <div>12%</div> <div>29%</div> </div>
1	G	315	<div> <div>20%</div> <div>39%</div> <div>11%</div> <div>29%</div> </div>
1	K	315	<div> <div>19%</div> <div>43%</div> <div>10%</div> <div>29%</div> </div>

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Mol	Chain	Length	Quality of chain
1	L	315	
2	C	1119	
2	H	1119	
2	M	1119	
3	D	1524	
3	I	1524	
3	N	1524	
4	E	99	
4	J	99	
4	O	99	
5	X	156	
5	Y	156	
5	Z	156	

2 Entry composition

There are 7 unique types of molecules in this entry. The entry contains 73369 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 subunit alpha.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	223	Total	C	N	O	S	0	0	0
			1759	1123	306	328	2			
1	B	224	Total	C	N	O	S	0	0	0
			1767	1129	307	329	2			
1	F	223	Total	C	N	O	S	0	0	0
			1759	1123	306	328	2			
1	G	223	Total	C	N	O	S	0	0	0
			1759	1123	306	328	2			
1	K	225	Total	C	N	O	S	0	0	0
			1769	1129	308	330	2			
1	L	224	Total	C	N	O	S	0	0	0
			1767	1129	307	329	2			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	C	1080	Total	C	N	O	S	0	0	0
			8521	5392	1520	1585	24			
2	H	1081	Total	C	N	O	S	0	0	0
			8530	5398	1522	1586	24			
2	M	1080	Total	C	N	O	S	0	0	0
			8521	5392	1520	1585	24			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
3	D	1334	Total	C	N	O	S	0	0	0
			10513	6654	1864	1965	30			
3	I	1318	Total	C	N	O	S	0	0	0
			10396	6583	1842	1942	29			
3	N	1323	Total	C	N	O	S	0	0	0
			10440	6613	1849	1949	29			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
4	E	93	Total	C	N	O	S	0	0	0
			754	481	131	138	4			
4	J	93	Total	C	N	O	S	0	0	0
			754	481	131	138	4			
4	O	93	Total	C	N	O	S	0	0	0
			754	481	131	138	4			

- Molecule 5 is a protein called RNA cleavage stimulating factor (GreA/Gfh1 chimeric protein Gre-C1).

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
5	X	154	Total	C	N	O	S	0	0	0
			1200	736	218	242	4			
5	Y	154	Total	C	N	O	S	0	0	0
			1200	736	218	242	4			
5	Z	154	Total	C	N	O	S	0	0	0
			1200	736	218	242	4			

- Molecule 6 is ZINC ION (three-letter code: ZN) (formula: Zn).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
6	I	1	Total	Zn	0	0
			1	1		
6	D	1	Total	Zn	0	0
			1	1		
6	N	1	Total	Zn	0	0
			1	1		

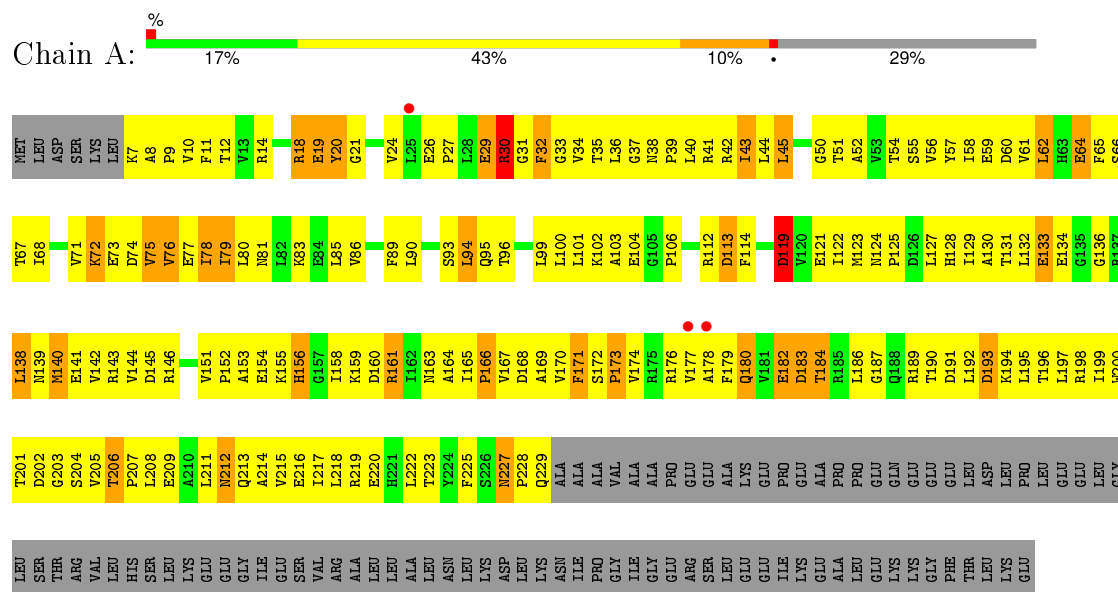
- Molecule 7 is MAGNESIUM ION (three-letter code: MG) (formula: Mg).

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

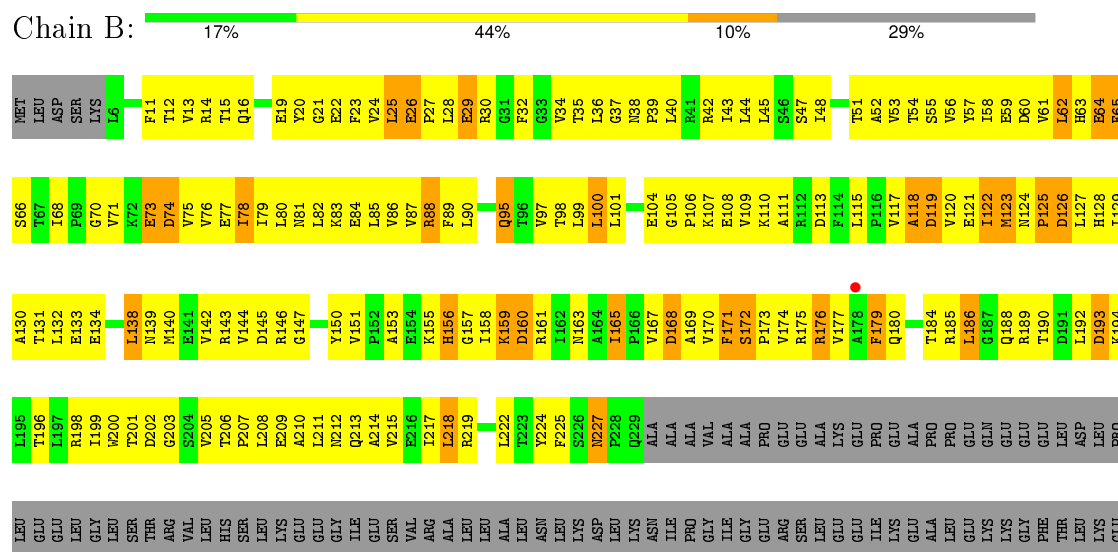
3 Residue-property plots

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.

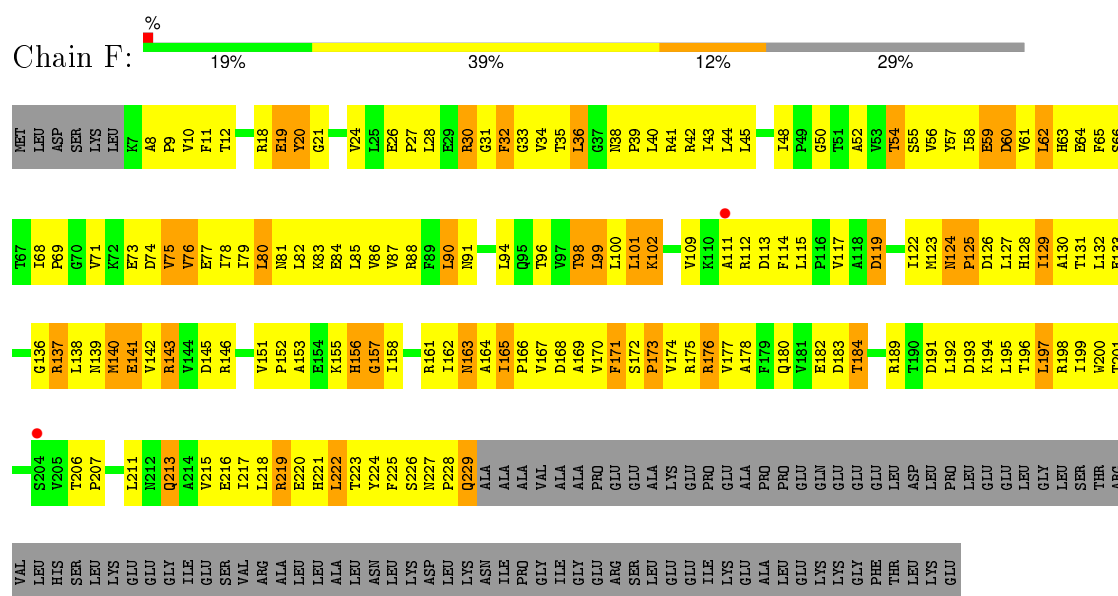
• Molecule 1: DNA-directed RNA polymerase subunit alpha



• Molecule 1: DNA-directed RNA polymerase subunit alpha



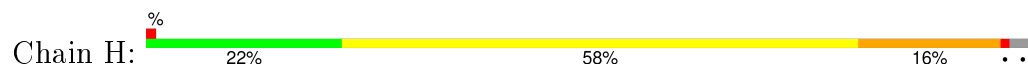
• Molecule 1: DNA-directed RNA polymerase subunit alpha





Q1093	A1094	L1095	A1096	L1097	D1098	V1099	Q1100	T1101	L1102	D1103	E1104	K1105	D1106	M1107	P1108	D1109	D1110	T1111	F1112	GLU	GLY	LEU	ALA	SER	LYS	ARG																																																											
R1031	F1032	G1033	E1034	M1035	E1036	V1037	M1038	A1039	L1040	E1041	A1042	L1043	G1044	A1045	A1046	H1047	T1048	L1049	Q1050	E1051	M1052	L1053	T1054	L1055	K1056	S1057	D1058	D1059	I1060	E1061	G1062	R1063	A1064	A1065	A1066	V1067	A1068	E1069	L1070	I1071	K1072	G1073	V1076	P1077	E1078	P1079	S1080	V1081	S1084	F1085	A1086	V1087	L1088	V1089	K1090	E1091	L1092																												
F967	L892	K830	SER	T701	Q639	L571	A510	E445	R383	E384	F385	F386	S387	S388	L391	S392	Q393	F394	K395	K396	E397	E445	M448	L451	L452	T453	S454	L455	A456	A457	Y458	V459	R460	V461	D462	S399	P400	L401	S402	S403	L404	R405	H406	K407	Y471	R408	R409	L410	S411	V474	V475	L412	L413	L414	G415	G416	G417	T480	D481	T419	E482	R420	E421	R422	A423	G424	F425	D426	V427	R428	D429	V430	H431	R432	T433	H434	R437	I438	T501	C439	P440	V441	E442	T443	P444
R830	R831	K832	PRO	THR	R642	Q643	V644	V645	Q646	Q647	R648	V649	R650	K651	L654	L655	A656	D657	G658	P659	A660	S661	G664	F665	L666	A667	L668	G669	Q670	M671	V672	L673	T674	M676	M677	P678	F679	D680	G681	Y682	N683	F684	E685	D686	A687	I688	V689	I690	S691	E692	E693	L694	L695	K696	R697	F698	F699	Y700																											
L788	S789	T728	H728	P719	E720	R721	I722	I723	R724	P727	F728	P729	L729	S730	E731	A732	A733	L734	R735	D736	L737	D738	E739	E740	G741	R744	I745	G746	A747	E748	V749	K750	P751	G752	D753	L754	V755	G757	R758	R759	S760	PHE	LYS	GLY	Q829																																								
SER	GLU	PRO	THR	PRO	GLU	GLU	ARG	LEU	LEU	ARG	SER	ILE	PHE	GLY	GLU	LYS	ALA	ASP	VAL	ASP	VAL	L788	L790	R791	P793	L794	G795	E796	G797	G798	T799	V800	V801	R802	T803	R805	L806	R807	R808	G809	D810	P811	G812	V813	R820	E821	V822	R823	R824	V825	V826	V827	L830	Q829																															
K830	R831	K832	PRO	THR	R642	Q643	V644	V645	Q646	Q647	R648	V649	R650	K651	L654	L655	A656	D657	G658	P659	A660	S661	G664	F665	L666	A667	L668	G669	Q670	M671	V672	L673	T674	M676	M677	P678	F679	D680	G681	Y682	N683	F684	E685	D686	A687	I688	V689	I690	S691	E692	E693	L694	L695	K696	R697	F698	F699	Y700																											
L892	Q899	R900	Y901	I902	S903	P904	I905	F906	D907	A908	A909	K910	E911	P912	E913	I914	K915	E916	L917	L918	A919	Q920	A921	F922	E923	K928	E932	G933	G934	D937	K938	R939	E940	F941	E942	V943	L944	R945	R946	A947	L950	G951	L952	V953	T954	P955	T958	P959	Q962	L963	K964																																		
P967	L968	Q969	G970	K971	V972	V973	L974	Y975	G976	G977	R978	T979	G980	E981	P982	E983	E984	G985	P986	L987	V988	V989	G990	N992	F993	Y994	N995	K996	M1000	V1001	K1004	M1005	H1006	A1007	R1008	S1009	P1012	Y1013	S1014	L1015	T1016	T1017	P1018	Q1019	P1020	L1021	K1024	A1025	Q1026	F1027	G1028	G1029	K1030																																
R1031	F1032	E1033	E1034	M1035	E1036	V1037	M1038	A1039	L1040	E1041	A1042	L1043	G1044	A1045	A1046	H1047	T1048	L1049	Q1050	E1051	M1052	L1053	T1054	L1055	K1056	S1057	D1058	D1059	I1060	E1061	G1062	R1063	A1064	A1065	A1066	V1067	A1068	E1069	L1070	I1071	K1072	G1073	V1076	P1077	E1078	P1079	S1080	V1081	S1084	F1085	A1086	V1087	L1088	V1089	K1090	E1091	L1092																												

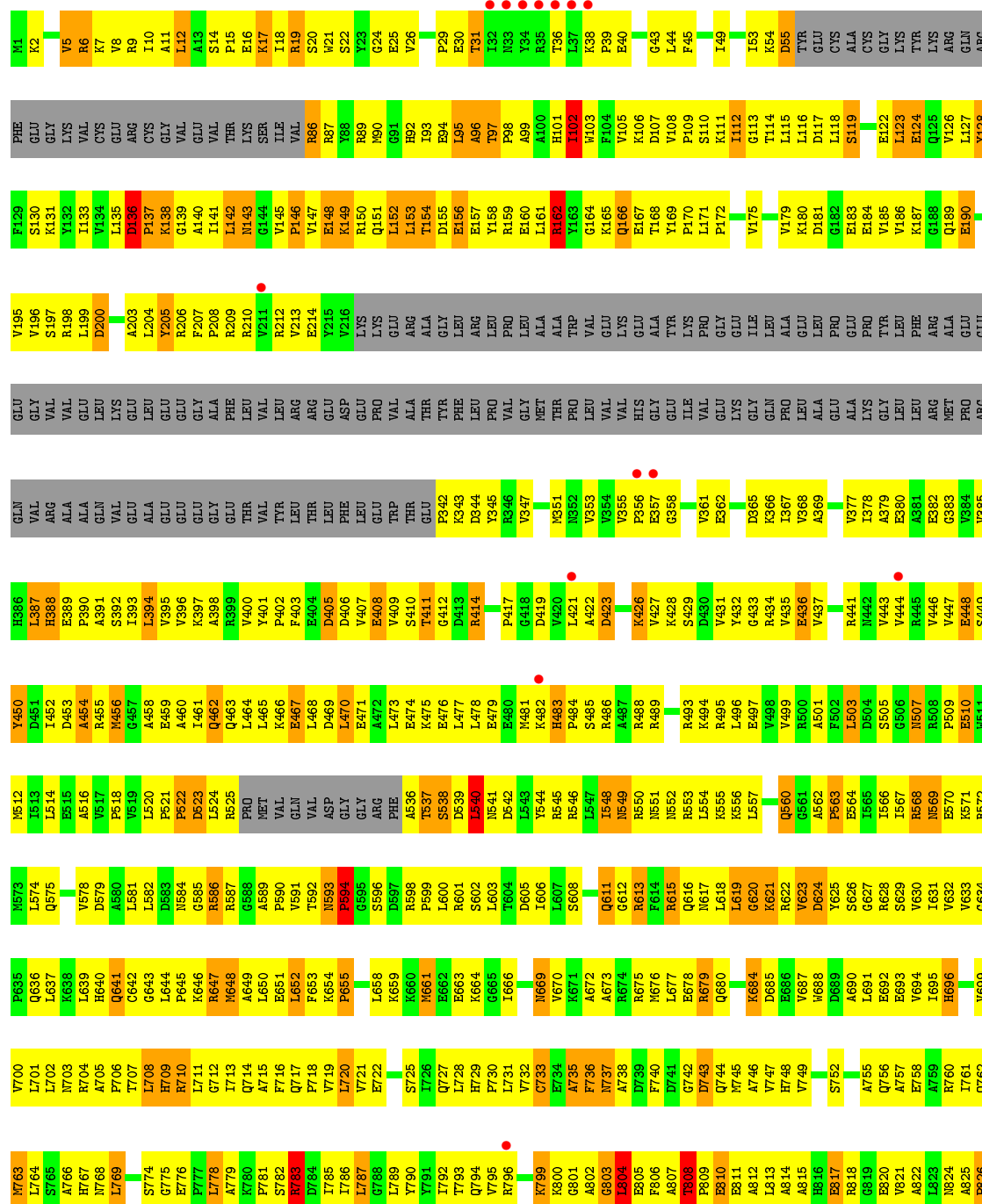
● Molecule 2: DNA-directed RNA polymerase subunit beta

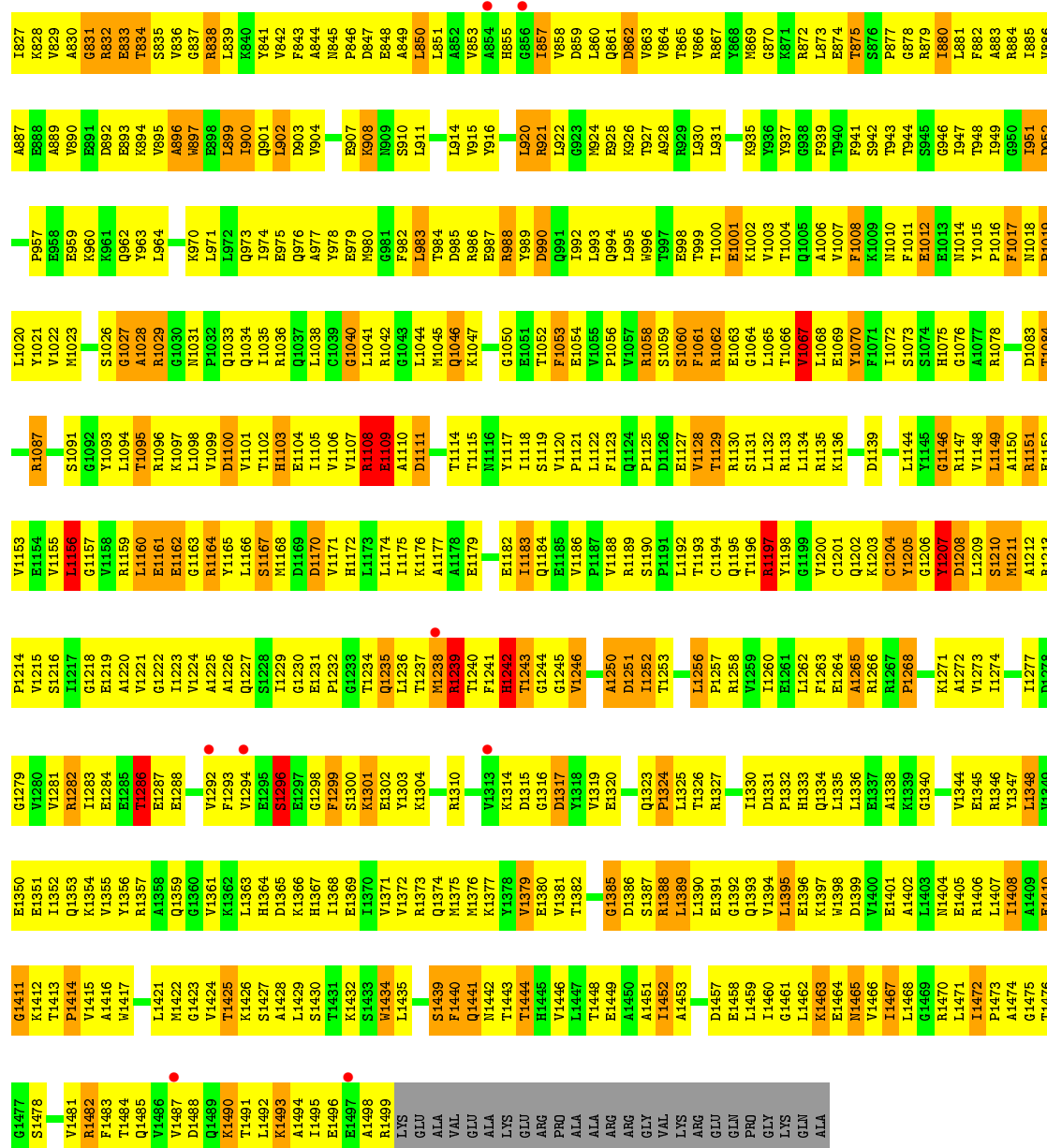


R134	L135	I136	V137	S138	Q139	L140	H141	R142	S143	G144	V145	V146	E147	F148	T149	P150	D151	P152	A153	R154	P155	G156	R157	Y158	I159	A160	S161	I162	L163	P164	L165	P166	K167	R168	G169	P170	H171	I172	D173	L174	E175	V176	E177	P178	N179	G180	V181	V182	S183	M184	K185	R189	L193	V194	L195	L196	A132	D133																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
L197	L198	L199	L200	L201	L202	L203	L204	L205	L206	L207	L208	L209	L210	L211	L212	L213	L214	L215	L216	L217	L218	L219	L220	L221	L222	L223	L224	L225	L226	L227	L228	L229	L230	L231	L232	L233	L234	L235	L236	L237	L238	L239	L240	L241	L242	L243	L244	L245	L246	L247	L248	L249	L250	L251	L252	L253	L254	L255	L256	L257	L258	L259	L260	L261	L262	L263	L264	L265	L266	L267	L268	L269	L270	L271	L272	L273	L274	L275	L276	L277	L278	L279	L280	L281	L282	L283	L284	L285	L286	L287	L288	L289	L290	L291	L292	L293	L294	L295	L296	L297	L298	L299	L300	L301	L302	L303	L304	L305	L306	L307	L308	L309	L310	L311	L312	L313	L314	L315	L316	L317	L318	L319	L320	L321	L322	L323	L324	L325	L326	L327	L328	L329	L330	L331	L332	L333	L334	L335	L336	L337	L338	L339	L340	L341	L342	L343	L344	L345	L346	L347	L348	L349	L350	L351	L352	L353	L354	L355	L356	L357	L358	L359	L360	L361	L362	L363	L364	L365	L366	L367	L368	L369	L370	L371	L372	L373	L374	L375	L376	L377	L378	L379	L380	L381	L382	L383	L384	L385	L386	L387	L388	L389	L390	L391	L392	L393	L394	L395	L396	L397	L398	L399	L400	L401	L402	L403	L404	L405	L406	L407	L408	L409	L410	L411	L412	L413	L414	L415	L416	L417	L418	L419	L420	L421	L422	L423	L424	L425	L426	L427	L428	L429	L430	L431	L432	L433	L434	L435	L436	L437	L438	L439	L440	L441	L442	L443	L444	L445	L446	L447	L448	L449	L450	L451	L452	L453	L454	L455	L456	L457	L458	L459	L460	L461	L462	L463	L464	L465	L466	L467	L468	L469	L470	L471	L472	L473	L474	L475	L476	L477	L478	L479	L480	L481	L482	L483	L484	L485	L486	L487	L488	L489	L490	L491	L492	L493	L494	L495	L496	L497	L498	L499	L500	L501	L502	L503	L504	L505	L506	L507	L508	L509	L510	L511	L512	L513	L514	L515	L516	L517	L518	L519	L520	L521	L522	L523	L524	L525	L526	L527	L528	L529	L530	L531	L532	L533	L534	L535	L536	L537	L538	L539	L540	L541	L542	L543	L544	L545	L546	L547	L548	L549	L550	L551	L552	L553	L554	L555	L556	L557	L558	L559	L560	L561	L562	L563	L564	L565	L566	L567	L568	L569	L570	L571	L572	L573	L574	L575	L576	L577	L578	L579	L580	L581	L582	L583	L584	L585	L586	L587	L588	L589	L590	L591	L592	L593	L594	L595	L596	L597	L598	L599	L600	L601	L602	L603	L604	L605	L606	L607	L608	L609	L610	L611	L612	L613	L614	L615	L616	L617	L618	L619	L620	L621	L622	L623	L624	L625	L626	L627	L628	L629	L630	L631	L632	L633	L634	L635	L636	L637	L638	L639	L640	L641	L642	L643	L644	L645	L646	L647	L648	L649	L650	L651	L652	L653	L654	L655	L656	L657	L658	L659	L660	L661	L662	L663	L664	L665	L666	L667	L668	L669	L670	L671	L672	L673	L674	L675	L676	L677	L678	L679	L680	L681	L682	L683	L684	L685	L686	L687	L688	L689	L690	L691	L692	L693	L694	L695	L696	L697	L698	L699	L700	L701	L702	L703	L704	L705	L706	L707	L708	L709	L710	L711	L712	L713	L714	L715	L716	L717	L718	L719	L720	L721	L722	L723	L724	L725	L726	L727	L728	L729	L730	L731	L732	L733	L734	L735	L736	L737	L738	L739	L740	L741	L742	L743	L744	L745	L746	L747	L748	L749	L750	L751	L752	L753	L754	L755	L756	L757	L758	L759	L760	L761	L762	L763	L764	L765	L766	L767	L768	L769	L770	L771	L772	L773	L774	L775	L776	L777	L778	L779	L780	L781	L782	L783	L784	L785	L786	L787	L788	L789	L790	L791	L792	L793	L794	L795	L796	L797	L798	L799	L800	L801	L802	L803	L804	L805	L806	L807	L808	L809	L810	L811	L812	L813	L814	L815	L816	L817	L818	L819	L820	L821	L822	L823	L824	L825	L826	L827	L828	L829	L830	L831	L832	L833	L834	L835	L836	L837	L838	L839	L840	L841	L842	L843	L844	L845	L846	L847	L848	L849	L850	L851	L852	L853	L854	L855	L856	L857	L858	L859	L860	L861	L862	L863	L864	L865	L866	L867	L868	L869	L870	L871	L872	L873	L874	L875	L876	L877	L878	L879	L880	L881	L882	L883	L884	L885	L886	L887	L888	L889	L890	L891	L892	L893	L894	L895	L896	L897	L898	L899	L900	L901	L902	L903	L904	L905	L906	L907	L908	L909	L910	L911	L912	L913	L914	L915	L916	L917	L918	L919	L920	L921	L922	L923	L924	L925	L926	L927	L928	L929	L930	L931	L932	L933	L934	L935	L936	L937	L938	L939	L940	L941	L942	L943	L944	L945	L946	L947	L948	L949	L950	L951	L952	L953	L954	L955	L956	L957	L958	L959	L960	L961	L962	L963	L964	L965	L966	L967	L968	L969	L970	L971	L972	L973	L974	L975	L976	L977	L978	L979	L980	L981	L982	L983	L984	L985	L986	L987	L988	L989	L990	L991	L992	L993	L994	L995	L996	L997	L998	L999	L1000	L1001	L1002	L1003	L1004	L1005	L1006	L1007	L1008	L1009	L1010	L1011	L1012	L1013	L1014	L1015	L1016	L1017	L1018	L1019	L1020	L1021	L1022	L1023	L1024	L1025	L1026	L1027	L1028	L1029	L1030	L1031	L1032	L1033	L1034	L1035	L1036	L1037	L1038	L1039	L1040	L1041	L1042	L1043	L1044	L1045	L1046	L1047	L1048	L1049	L1050	L1051	L1052	L1053	L1054	L1055	L1056	L1057	L1058	L1059	L1060	L1061	L1062	L1063	L1064	L1065	L1066	L1067	L1068	L1069	L1070	L1071	L1072	L1073	L1074	L1075	L1076	L1077	L1078	L1079	L1080	L1081	L1082	L1083	L1084	L1085	L1086	L1087	L1088	L1089	L1090	L1091	L1092	L1093	L1094	L1095	L1096	L1097	L1098	L1099	L1100	L1101	L1102	L1103	L1104	L1105	L1106	L1107	L1108	L1109	L1110	L1111	L1112	L1113	L1114	L1115	L1116	L1117	L1118	L1119	L1120	L1121	L1122	L1123	L1124	L1125	L1126	L1127	L1128	L1129	L1130	L1131	L1132	L1133	L1134	L1135	L1136	L1137	L1138	L1139	L1140	L1141	L1142	L1143	L1144	L1145	L1146	L1147	L1148	L1149	L1150	L1151	L1152	L1153	L1154	L1155	L1156	L1157	L1158	L1159	L1160	L1161	L1162	L1163	L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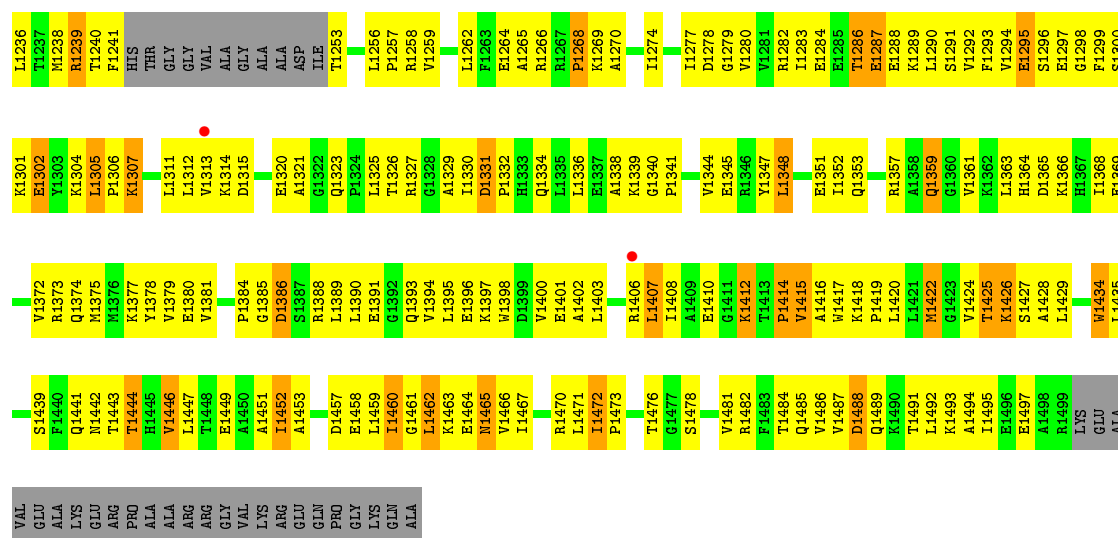


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1983	G987	ALA	I722	S591	F463	D396	R331	Q204	R142	F68	E2
E984	V848	ARG	T723	L592	L464	E397	I332	E205	S143	P149	I3
G985	V849	ASP	R724	A593	G465	T398	R333	T206	P144	E70	
P986	K850	VAL	D725	F331	F466	N399	R334	L207	G146	W1	F6
I914	K851	VAL	I726	M532	L467	P400	T335	A208	V145	R72	G7
K915	I852	LYS	P727	D533	R468		T336	R209	G147	L73	R8
E916	L853	D787	H728	V534	T469	S403	G337	E210	F148	G74	I9
	P854	T788	L729	S535	P470		E338	L211	T149	E75	R10
A919	P855	S789	S730	F536	Y471	R405	L339	G212	P150	E11	E11
	E856	L790	E731	K537	R472	H406	M340		D151	O80	E12
F922	D857	R791	A732	Q538	R473	K407	T341	L217	P152	I13	I13
E923	K605	G604	A733	F539	V474	R408	K342	V218	A153	P14	P14
E924	V606	V606	L734	F540		R409	Q943	Q219	R154	L15	L15
N925	D807	D807	R735	S541	G477		Q943	G220	P155	P16	P16
F926	G608	G608	V736	V542	V478	S411	F344	L221	G156	T89	T89
G927	P862	V601	L737	N543	V479	A412		M222	P157	Y90	Y90
H928	D863	V601	D738	T544	T480	A412	L348	D223	R157	Q91	Q91
K929	G864	R802	E739	J545	D481	G414	A349	E224	Y158	T19	T19
	T865	T803	G740	J546	E482	G415	R350	E225	I159	A92	A92
V936	P866	V604	E741	L547	E483	G416	L351	S225	A160	E20	E20
D937	V867	R805	V742	F548	V484	G417	A352	V226	S161	R97	R97
K938	D868	L806	V743	F549	Y485	L418	R353	F227	I162	L98	L98
R939	V869	R807	R744	L550	N486	T419	G354	A228	I163	Q99	Q99
E940	I870	R808	R745	E551	T487		V355	M229	P164	L100	L100
V941	L871	G809	G746	E552	A488	R422	R356	P231	L165	I101	I101
E942	N872	D810	A747		T489	A423	E357	P232	P166	H102	H102
N943	P873	P811	E748	R557	E490	G424	R358	E232	K167	K103	K103
L944	L874	L806	V749	A558	E491	F425	M359	E233	L168	L30	L30
R945	G875	G813	K750	L559	T495	D426	L360	A234	G169	Q31	Q31
B946	R876	R814	P751	G560	T496	V427	M361	L235	P170	G106	G106
	P877	L815	G752	G561	A497	R428	G362		M171	L107	L107
	S878	K816	D753	T629	Q498		S363	L238	L172	I108	I108
K949	R879	V819	I754	R630	Q499	V430	L367	F239	D173	K109	K109
G951	N880	V826	L755	N563	N500	H431	T368	T240	E110	E110	E110
L952	N881	R820	V756	G632	T501	R432	P369	L241	L175	D111	D111
V953	L882	E821	G757	Q633	P502	T433	A370	L242	V176	E112	E112
	G883	V622	R758	G634	L503	H434	K371	R243	E177	V113	V113
	Q884	V823	I759	T635	E504	Y435	L372	P244	P178	F114	F114
		R824	S760	A636	E505		V373		M179	L115	L115
	E887	V825	PHE	T629	G505		L307	P247	G180	G116	G116
K963	T888	V826	LYS	R637	N506	I438	N374	P248	V181	H117	H117
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L966	L890	A828	GLU	Q639	I508	P440	R376	R250	S183	P119	P119
F967	G891	Q829	SER	R640	A509	V441	P377	D251	M184	L120	L120
L968	T892	V830	GLU	P641	E511	E442	L378	K252	K185	M121	M121
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Q970	L897	Q834	GLU	V644	V514		A381	V254		E123	E123
K971	P896	L433	PRO	V645	V514	A447	I382	A255	K189	D124	D124
K972	L897	Q834	GLU	G646	A515	I449	R383	A256	V182	I119	I119
V972	G898	V835	GLU	Q647	A516	G450	E384	V257	R191	E55	E55
N973	Q899	G836	ARG	R648	R517	L451	F385	Y258	F192	N130	N130
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D976		L439	ARG	K651	P521	A456	Q389	L261	L195	D133	D133
	P904	A840	SER	G652	V522	A457	Q390	A262	L196	R134	R134
	I905	N841	ILE	D853	I523	Y458	L391	D263	L197	V135	V135
R978	F906	R842	PHE	L854	V524	A459	S392	P264	R198	G63	G63
T979	D907	H843	GLY	P719	S525	R460	Q393	R265	V199	L64	L64
G980	G908		GLU	E720	P526	V461	F394	Y267	L200	Q139	Q139
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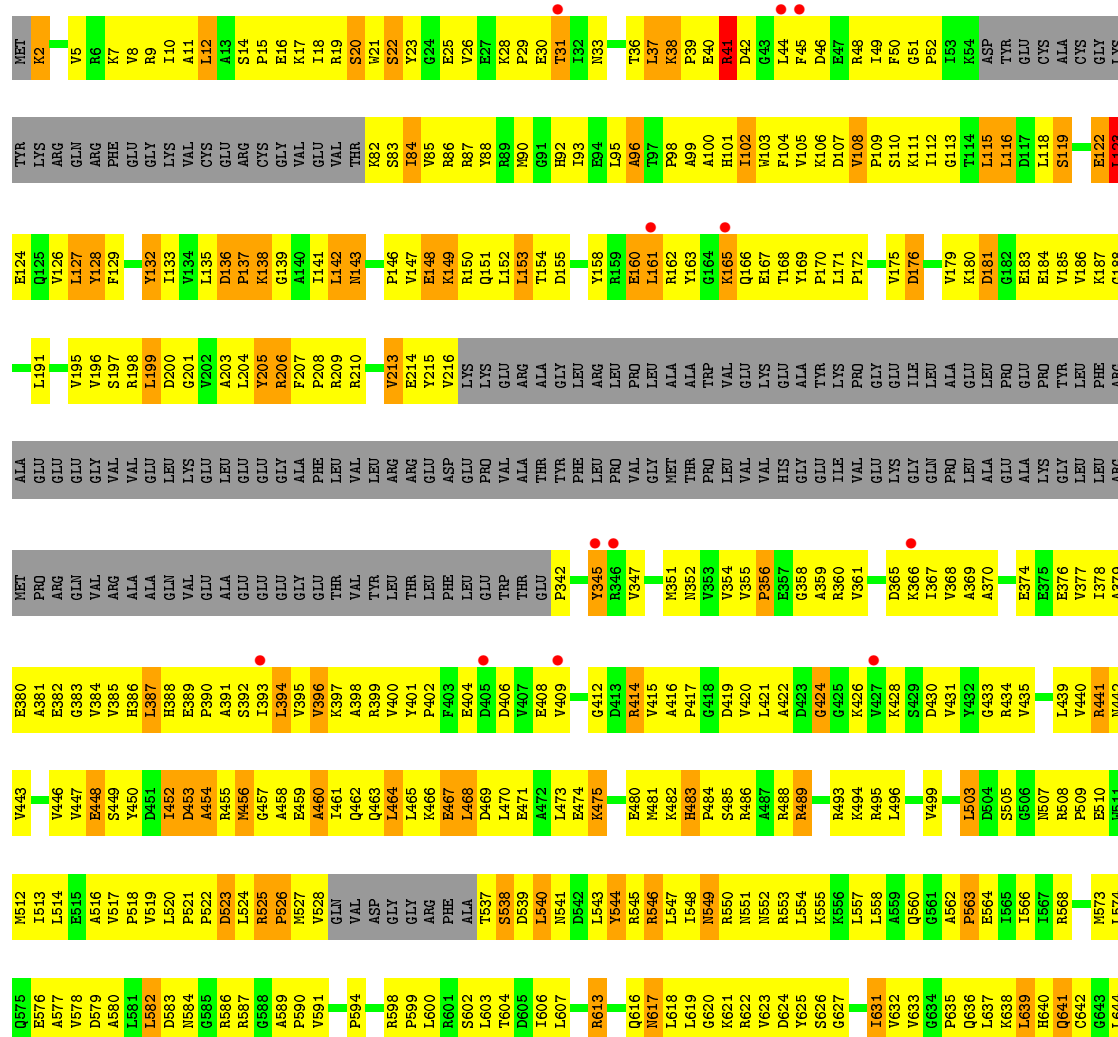




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	V1107	R1036	E965	L899	R838	E777	H709		E576	R445	E382	ALA	VAL	R198
K1176	R1108	Q1037	E966	I900	Y841	P777	R710	K648	E577	V446	G363	ALA	VAL	L199
A1177	E1109	L1038	E969	G903	F843	L778	L711	L649	V578	V447	V384	ALA	VAL	D200
A1178	D1110	G1040	R970	L902	R842	A779	G712	L650	D879	E448	V385	GLN	LEU	G201
	D1111	P1043	R971	P903	F843	K780	I713	E651	A580			VAL	LYS	V202
E1182	G1112	L1041	L971	V904	A844	P781	Q714	L652	L581	A581	H386	GLU	GLU	A203
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	T1115	L1044	Q973	Q907	D847	D784	Q717	P655	P518	D453	E389	GLU	GLU	Y205
V1188	M1116	M1045	Q976	K908	E848	I785	P718	F656	R586	A454	P390	GLU	GLY	R206
S1189	Y1117	Q1046	A977	I909	A849	I786	V719	L657	R587		A391	GLY	GLY	F207
S1190	I1118	K1047	Y978	S910	A849	L787	L720	L658	G588	S392	P392	GLY	ALA	P208
P1191	P1048	E1052	E979	L911	L851	G788	V721	K659	A589	M456	L394	PHE	PHE	R209
T1192	S1049	G1050	G981	K912	A852	L789	E722	K660	L524		V395	VAL	VAL	R210
T1193	L1122	G1051	F982	D913	R853	V790		P661	T592	E459	V396	LEU	LEU	R211
Q1194	F1123	E1051	F982	L914	A854	I791	I726	E662	T593	A460	V397	LEU	LEU	R212
Q1195	Q1124	T1052	L983	V915	R855	I792	Q727	E663	M593	I461	K397	LEU	ARG	V213
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C1201	R1130	R1058	Y989	I922	Q861	E798	C733	K669	T604			THR	ALA	GLU
Q1202	S1131	S1059	D990	G923	D862	K799	E734	K670	G469	L468	D406	THR	ALA	ARG
K1203	L1132	S1060	Q991	N924	R863	K800	A735	K671	I606		E407	GLY	THR	GLY
C1204	R1133	P1061	I992	E925	V864	G801	F736	A672	L607	L470	E408	LEU	PHE	LEU
Y1205	L1134	R1062	L993	K926	T865	A802	N737	A673	S608		V409	LEU	LEU	ARG
G1206	R1135	E1063	Q994	T927	R866	G803	A738	K674		E474	S410	ASP	PRO	
Y1207	A1138	Q1064	L995	A928	R867	L804	D739	R675	G612	K475	T411	TYR	LEU	
D1208	D1139	L1065	H996	R929	Y868	E805			R613	E476		ARG	VAL	
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S1210	L1144	V1067	E998	L931	G870	A807	Q744	E678	R615	A416	Q348	MET	ALA	ALA
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A1212	G1146	Y1070	T1000	A933	R872	P909		Q680	M817	E418	TRP	PRO	TRP	TRP
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V1215	L1149	L1072	V1003	Y936	S876	L813	L751	D685	G620	H483	L421	HIS	HIS	GLY
S1216	A1150	H1075	Y1007	G938	P877	G819	S753	E686	K621	S485	A422	GLY	GLY	ALA
I1217	R1151	R1075	Y1015	F939	R878	A815	A754	V687	R622	R488	D423	GLY	TYR	TYR
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	G1157	Y1093	L1020	T947	R884	V821	I761	V694	V630	D365	S429	PRO	PRO	ALA
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Q1227	E1161	T1095	Y1022	T948	V886	A825	I696	R696	V633	Y432	Y432	ALA	ALA	ALA
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G1233	L1166	D1100	A1028	T956	D892	A830	M768	L702	L639	D438	D438	LEU	LEU	LEU
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• Molecule 3: DNA-directed RNA polymerase subunit beta'

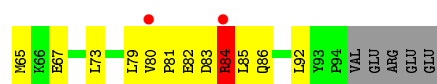


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R651	P718	A784	M845	P905	E1104	L1166	S1228	E1295	L1363	V1424	V1487	R651
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F653	L720	I786	R847	E907	M1168	D1169	G1230	E1297	D1365	K1426	T1489	F653
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P655	E722	G788	R849	N909	R1108	R1108	P1232	F1299	H1367	A1428	T1491	P655
F656	Q727	L789	L850	S910	E1109	E1109	Q1235	S1300	I1368	L1429	L1492	F656
L657	L728	T792	L851	L911	A1110	H1172	L1236	Y1303	E1369	S1430	K1493	L657
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R659	W730	Q794	R853	D913	C1112	L1174	MET	L1305	V1371	K1432	I1495	R659
R660	L731	Q794	M1045	L914	G1113	L1175	ARG	L1306	P1372	S1433	E1496	R660
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R675	A738	A802	R857	Q917	N1116	E1179	PHE	R1310	M1376	A1437	M1442	R675
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D685	H748	E910	K870	L930	T1129	L1193	L1266	L1326	L1389	E1449	E1449	D685
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V687	W750	A812	L872	D932	S1131	Q1195	P1257	H1332	E1391	I1452	I1452	V687
R688	L751	L813	L873	A933	L1132	T1196	R1258	G1328	Q1392	A1453	A1453	R688
D689	S752	A815	T874	L934	R1133	R1197	V1259	L1330	Q1393	G1454	G1454	D689
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L695	W558	V821	L881	F941	T1004	S1074	R1266	L1336	V1400	G1460	G1460	L695
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K697	I761	L823	A883	T943	M1010	G1081	P1268	A1338	A1402	L1462	L1462	K697
V698	Q762	A825	R884	T944	M1010	A1082	K1269	E1342	L1403	K1463	K1463	V698
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A706	L769	R832	D892	Y1021	V1153	V1153	I1277	V1349	E1410	R1470	R1470	A706
P706	R769	R833	E893	Y1022	E1154	E1154	D1278	E1350	K1412	T1472	T1472	P706
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L708	S835	S835	V895	I956	S1026	L1094	I1283	Q1353	P1414	A1474	A1474	L708
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R710	E937	E937	R897	E959	A1028	R1096	E1287		A1416	T1476	T1476	R710
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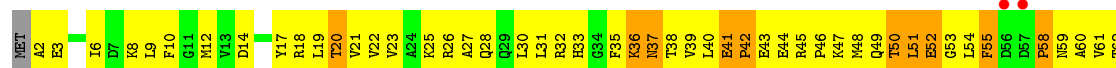
• Molecule 4: DNA-directed RNA polymerase subunit omega



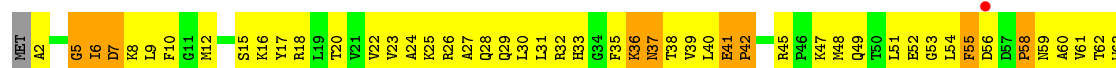
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D7	P55	P55	P55	P55	P55	P55	P55	P55	P55	P55	P55
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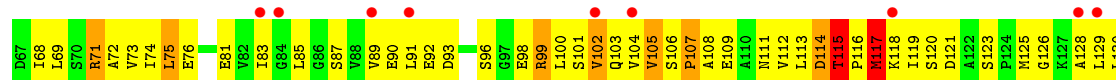
- Molecule 4: DNA-directed RNA polymerase subunit omega



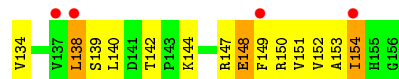
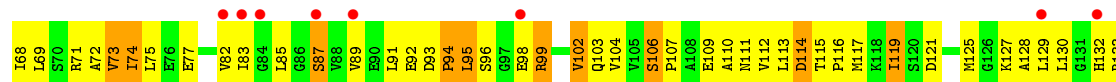
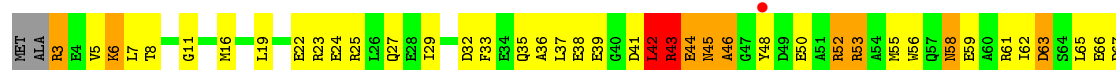
- Molecule 4: DNA-directed RNA polymerase subunit omega



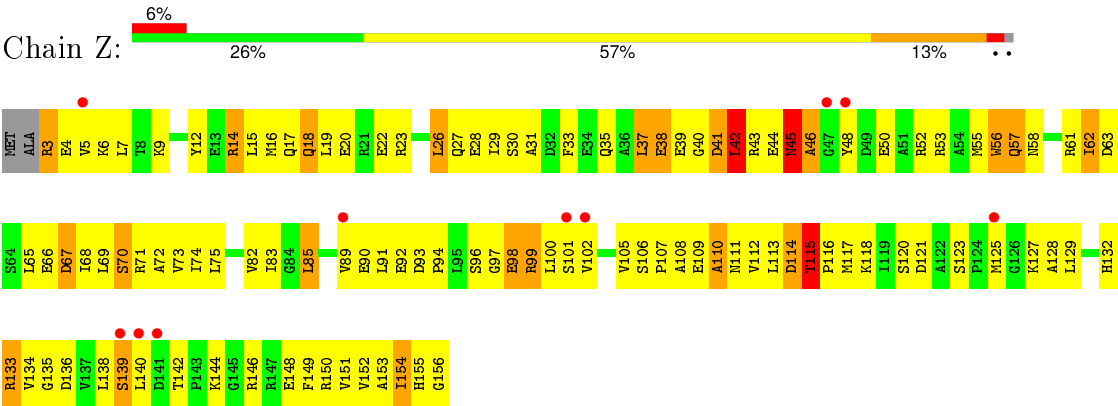
- Molecule 5: RNA cleavage stimulating factor (GreA/Gfh1 chimeric protein Gre-C1)



- Molecule 5: RNA cleavage stimulating factor (GreA/Gfh1 chimeric protein Gre-C1)



- Molecule 5: RNA cleavage stimulating factor (GreA/Gfh1 chimeric protein Gre-C1)



4 Data and refinement statistics

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α , β , γ	189.57Å 263.77Å 195.85Å 90.00° 116.83° 90.00°	Depositor
Resolution (Å)	45.79 – 4.40 45.79 – 4.40	Depositor EDS
% Data completeness (in resolution range)	96.4 (45.79-4.40) 96.5 (45.79-4.40)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	0.17	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.70 (at 4.45Å)	Xtriage
Refinement program	CNS 1.3	Depositor
R, R_{free}	0.260 , 0.313 0.260 , 0.313	Depositor DCC
R_{free} test set	3149 reflections (3.01%)	DCC
Wilson B-factor (Å ²)	151.2	Xtriage
Anisotropy	0.098	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.22 , 136.3	EDS
Estimated twinning fraction	0.129 for l,-k,h	Xtriage
L-test for twinning ²	$\langle L \rangle = 0.35$, $\langle L^2 \rangle = 0.17$	Xtriage
Outliers	0 of 104543 reflections	Xtriage
F_o, F_c correlation	0.89	EDS
Total number of atoms	73369	wwPDB-VP
Average B, all atoms (Å ²)	179.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 2.08% of the height of the origin peak. No significant pseudotranslation is detected.*

¹Intensities estimated from amplitudes.

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

5 Model quality [i](#)

5.1 Standard geometry [i](#)

Bond lengths and bond angles in the following residue types are not validated in this section: 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	0.46	0/1791	0.64	0/2436
1	B	0.51	0/1799	0.65	0/2447
1	F	0.51	0/1791	0.66	0/2436
1	G	0.51	0/1791	0.68	0/2436
1	K	0.45	0/1801	0.60	0/2450
1	L	0.51	0/1799	0.65	0/2447
2	C	0.51	0/8683	0.63	0/11747
2	H	0.53	0/8692	0.64	0/11758
2	M	0.49	0/8683	0.63	0/11747
3	D	0.52	0/10692	0.65	1/14452 (0.0%)
3	I	0.50	0/10571	0.62	0/14288
3	N	0.50	0/10617	0.63	0/14350
4	E	0.49	0/768	0.62	0/1035
4	J	0.51	0/768	0.63	0/1035
4	O	0.53	0/768	0.62	0/1035
5	X	0.68	0/1212	0.81	1/1629 (0.1%)
5	Y	0.64	0/1212	0.82	1/1629 (0.1%)
5	Z	0.62	0/1212	0.87	2/1629 (0.1%)
All	All	0.51	0/74650	0.65	5/100986 (0.0%)

There are no bond length outliers.

All (5) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	Z	37	LEU	CB-CG-CD1	-6.64	99.71	111.00
5	Z	42	LEU	CA-CB-CG	5.91	128.89	115.30
5	X	40	GLY	N-CA-C	-5.23	100.03	113.10
5	Y	85	LEU	CA-CB-CG	-5.07	103.64	115.30
3	D	1242	HIS	N-CA-C	-5.02	97.45	111.00

There are no chirality outliers.

There are no planarity outliers.

5.2 Too-close contacts

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	1759	0	1805	257	0
1	B	1767	0	1816	262	0
1	F	1759	0	1805	253	0
1	G	1759	0	1805	236	0
1	K	1769	0	1815	236	0
1	L	1767	0	1816	230	0
2	C	8521	0	8619	1196	0
2	H	8530	0	8632	1294	0
2	M	8521	0	8619	1131	0
3	D	10513	0	10743	1508	0
3	I	10396	0	10627	1408	0
3	N	10440	0	10682	1391	0
4	E	754	0	769	86	0
4	J	754	0	769	99	0
4	O	754	0	769	124	0
5	X	1200	0	1194	142	0
5	Y	1200	0	1194	139	0
5	Z	1200	0	1194	125	0
6	D	1	0	0	0	0
6	I	1	0	0	0	0
6	N	1	0	0	0	0
7	D	1	0	0	0	0
7	I	1	0	0	0	0
7	N	1	0	0	0	0
All	All	73369	0	74673	9501	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 64.

All (9501) 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)
5:Y:41:ASP:OD1	5:Y:48:TYR:HB2	1.38	1.19
1:F:54:THR:HG22	1:F:158:ILE:HG13	1.26	1.17
2:H:983:ILE:HD12	3:I:944:THR:HA	1.23	1.16
1:G:99:LEU:HD13	1:G:142:VAL:HG23	1.29	1.13
1:K:35:THR:HG21	1:L:43:ILE:HD11	1.28	1.12
3:I:525:ARG:HB3	3:I:540:LEU:HD22	1.17	1.11
2:H:328:LEU:HD13	2:H:433:THR:HB	1.13	1.11
2:M:565:GLN:HA	2:M:995:MET:HE1	1.32	1.11
2:M:368:THR:HB	2:M:369:PRO:HD3	1.29	1.11
3:D:996:TRP:HA	3:D:999:THR:HG22	1.29	1.10
3:D:1029:ARG:HH11	3:D:1029:ARG:HB3	1.12	1.09
5:Y:41:ASP:OD1	5:Y:48:TYR:CB	1.99	1.09
3:N:108:VAL:HB	3:N:109:PRO:HD3	1.33	1.09
2:H:64:LEU:HB2	2:H:359:MET:HG3	1.34	1.09
3:N:804:LEU:HD21	3:N:831:GLY:HA2	1.17	1.09
2:C:22:GLN:HB3	2:C:121:MET:HE1	1.29	1.09
3:N:546:ARG:HH11	3:N:546:ARG:HB3	1.17	1.07
2:M:755:LEU:HD13	2:M:825:VAL:HG11	1.33	1.07
2:C:270:GLY:HA2	2:C:274:ARG:HD3	1.31	1.07
3:N:387:LEU:HD13	3:N:387:LEU:H	1.14	1.07
2:C:290:LEU:HB3	2:C:302:VAL:HG11	1.34	1.07
3:I:771:SER:HB3	3:I:778:LEU:HD21	1.27	1.07
3:N:1472:ILE:H	3:N:1472:ILE:HD13	1.20	1.07
3:D:809:PRO:HB2	3:D:812:ALA:HB2	1.32	1.06
2:C:499:ALA:HA	2:C:532:MET:HE3	1.38	1.06
2:M:480:THR:HG22	2:M:482:GLU:H	1.16	1.06
3:D:87:ARG:HB3	3:D:523:ASP:HB2	1.37	1.06
3:I:108:VAL:HB	3:I:109:PRO:HD3	1.35	1.06
5:X:3:ARG:HH12	5:X:6:LYS:HE3	1.19	1.06
3:N:525:ARG:HB3	3:N:540:LEU:HD22	1.34	1.05
3:D:1252:ILE:HG12	3:D:1253:THR:H	1.17	1.05
3:D:538:SER:HB2	3:D:540:LEU:HD21	1.39	1.04
3:D:168:THR:HA	3:D:394:LEU:HB3	1.33	1.04
2:C:328:LEU:HD13	2:C:433:THR:HB	1.37	1.04
3:N:1435:LEU:HD21	3:N:1468:LEU:HD21	1.37	1.04
3:N:1115:THR:HG23	3:N:1189:ARG:HH21	1.22	1.04
2:H:939:ARG:HH12	2:H:981:GLU:HG3	1.22	1.04
3:N:807:ALA:H	3:N:832:ARG:HG2	1.19	1.03
2:H:12:VAL:HG13	2:H:13:ILE:H	1.23	1.03
1:K:112:ARG:HE	1:K:125:PRO:HB3	1.23	1.03
3:D:108:VAL:HB	3:D:109:PRO:HD3	1.37	1.03
3:I:705:ALA:HB3	3:I:706:PRO:HD3	1.35	1.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:6:ARG:HH21	3:I:1460:ILE:HG22	1.20	1.03
3:N:922:LEU:H	3:N:922:LEU:HD23	1.19	1.02
3:N:1209:LEU:HD23	3:N:1211:MET:H	1.22	1.02
3:N:843:PHE:HB2	3:N:866:VAL:HG22	1.42	1.02
2:M:165:LEU:HG	2:M:166:PRO:HA	1.41	1.02
3:N:1065:LEU:HD11	3:N:1069:GLU:HB3	1.38	1.02
2:M:721:ARG:HG2	2:M:820:ARG:HH12	1.21	1.02
2:C:708:TYR:O	2:C:825:VAL:HG12	1.59	1.01
3:N:1310:ARG:HB3	3:N:1327:ARG:HH21	1.23	1.01
3:D:1472:ILE:HD13	3:D:1472:ILE:H	1.20	1.01
2:H:640:ARG:HB2	2:H:642:ARG:HH21	1.24	1.01
4:J:25:LYS:HA	4:J:28:GLN:HE21	1.26	1.01
3:I:1476:THR:HG23	4:J:21:VAL:HG22	1.42	1.00
2:M:283:ILE:HG23	2:M:284:ARG:H	1.26	1.00
3:I:769:LEU:O	3:I:778:LEU:HG	1.60	1.00
2:C:750:LYS:HZ2	2:C:751:PRO:HD3	1.26	1.00
2:C:918:LEU:HD11	2:C:968:LEU:HA	1.42	1.00
3:D:1320:GLU:H	3:D:1323:GLN:NE2	1.59	1.00
3:D:483:HIS:HB2	3:D:484:PRO:HD3	1.41	1.00
3:I:136:ASP:HB3	3:I:137:PRO:HD3	1.40	1.00
1:G:78:ILE:O	1:G:82:LEU:HD23	1.61	0.99
2:C:701:THR:HG22	2:C:832:LYS:HA	1.40	0.99
3:D:1240:THR:HG22	3:D:1241:PHE:H	1.24	0.99
2:M:208:ALA:HB2	2:M:222:MET:HG3	1.41	0.99
2:C:290:LEU:H	2:C:290:LEU:HD23	1.27	0.99
1:G:53:VAL:HA	1:G:144:VAL:HG22	1.41	0.99
3:D:1087:ARG:HE	3:D:1235:GLN:HA	1.26	0.98
3:N:119:SER:HB3	3:N:123:LEU:HB2	1.44	0.98
3:D:1209:LEU:HD23	3:D:1211:MET:H	1.27	0.98
2:M:168:ARG:NH1	2:M:262:ALA:HB3	1.77	0.98
2:H:250:ARG:NH1	2:H:250:ARG:HA	1.78	0.98
3:N:12:LEU:H	3:N:12:LEU:HD22	1.27	0.98
3:N:366:LYS:HE2	3:N:369:ALA:HB2	1.45	0.98
3:N:705:ALA:HB3	3:N:706:PRO:HD3	1.43	0.98
2:H:726:ILE:HD13	2:H:734:LEU:HD21	1.44	0.98
3:N:162:ARG:NH1	3:N:450:TYR:HB3	1.79	0.98
1:B:74:ASP:HB2	3:D:872:ARG:HH22	1.29	0.98
5:Y:41:ASP:O	5:Y:43:ARG:N	1.97	0.98
2:C:915:LYS:HA	2:C:918:LEU:HD23	1.43	0.98
3:D:800:LYS:HA	3:D:829:VAL:HG13	1.44	0.98
1:F:39:PRO:HG3	1:G:39:PRO:HG3	1.46	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1120:VAL:HG23	3:D:1186:VAL:HB	1.46	0.98
2:M:1046:ALA:HA	3:N:1472:ILE:HD11	1.44	0.97
2:H:165:LEU:HG	2:H:166:PRO:HA	1.46	0.97
3:D:171:LEU:HG	3:D:392:SER:HA	1.44	0.97
5:Y:115:THR:HB	5:Y:116:PRO:HD3	1.44	0.97
2:H:803:THR:HG22	2:H:825:VAL:HA	1.43	0.97
3:D:1379:VAL:HG21	3:D:1417:TRP:HB2	1.44	0.97
2:M:666:LEU:HD11	2:M:668:LEU:HG	1.44	0.97
3:N:807:ALA:N	3:N:832:ARG:HG2	1.79	0.97
1:A:39:PRO:HG3	1:B:39:PRO:HG3	1.43	0.97
3:I:538:SER:OG	3:I:540:LEU:HD13	1.64	0.97
2:C:64:LEU:HB2	2:C:359:MET:HG3	1.44	0.97
3:N:165:LYS:HB3	3:N:165:LYS:HZ2	1.29	0.97
2:M:683:ASN:HD22	2:M:683:ASN:H	1.12	0.97
1:K:177:VAL:HG22	1:K:199:ILE:HG22	1.44	0.97
2:M:1092:LEU:HD13	2:M:1099:VAL:HG21	1.43	0.97
3:N:957:PRO:HG2	3:N:1007:VAL:HG22	1.45	0.97
2:C:1095:LEU:HB3	3:D:603:LEU:HD13	1.46	0.97
2:C:66:LEU:HD13	2:C:98:LEU:HD23	1.47	0.97
3:I:169:TYR:HB2	3:I:393:ILE:O	1.65	0.97
3:D:708:LEU:HD13	3:D:1231:GLU:HA	1.47	0.97
3:D:1257:PRO:HA	3:D:1260:ILE:HD13	1.44	0.96
3:I:162:ARG:HD2	3:I:452:ILE:HD12	1.46	0.96
3:D:564:GLU:H	2:H:223:ASP:HB2	1.30	0.96
2:H:142:ARG:HH21	2:H:325:ILE:HA	1.27	0.96
3:N:158:TYR:O	3:N:162:ARG:HB3	1.66	0.96
3:D:87:ARG:HB2	3:D:524:LEU:HD12	1.47	0.96
2:C:325:ILE:HD12	2:C:325:ILE:H	1.30	0.96
3:I:540:LEU:H	3:I:540:LEU:HD12	1.31	0.95
2:H:457:ALA:HB3	2:H:538:GLN:HA	1.46	0.95
3:I:1435:LEU:HG	3:I:1467:ILE:HD12	1.49	0.95
1:G:67:THR:HG21	1:L:159:LYS:HE3	1.47	0.95
4:J:65:MET:HA	4:J:68:LEU:HD22	1.46	0.95
2:C:113:VAL:HG11	2:C:373:VAL:HG21	1.47	0.95
2:M:336:VAL:HA	2:M:339:LEU:HD12	1.45	0.95
2:M:1095:LEU:HD22	3:N:603:LEU:HD22	1.46	0.95
2:H:1016:ILE:H	2:H:1016:ILE:HD13	1.31	0.95
2:H:1092:LEU:HB3	2:H:1097:LEU:HD23	1.48	0.95
2:C:199:VAL:HG21	2:C:238:LEU:HD12	1.46	0.95
1:F:35:THR:HG21	1:G:43:ILE:HD11	1.45	0.95
3:I:435:VAL:HG22	3:I:446:VAL:HG12	1.45	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:705:ALA:HB3	3:D:706:PRO:HD3	1.49	0.94
2:M:160:ALA:HB3	2:M:174:LEU:HB2	1.48	0.94
1:L:132:LEU:HD21	1:L:138:LEU:HB3	1.49	0.94
1:A:78:ILE:HG22	1:A:129:ILE:HG22	1.49	0.94
2:H:950:LEU:HB3	2:H:952:LEU:HD23	1.50	0.94
2:H:312:ALA:HB1	2:H:318:PRO:HG2	1.47	0.94
2:C:376:ARG:HB3	2:C:377:PRO:HD3	1.49	0.94
3:D:468:LEU:HD13	3:D:473:LEU:HD21	1.48	0.94
3:I:804:LEU:HD11	3:I:831:GLY:HA2	1.48	0.94
3:I:484:PRO:HB3	3:I:488:ARG:HE	1.29	0.94
3:I:1495:ILE:HD13	4:J:88:GLU:HG3	1.48	0.94
3:I:644:LEU:HD12	3:I:645:PRO:HD2	1.48	0.93
3:D:1484:THR:HG21	4:E:22:VAL:HG22	1.47	0.93
2:C:873:PRO:HB3	3:D:949:ILE:HD13	1.51	0.93
4:O:59:ASN:HD21	4:O:61:VAL:HG23	1.30	0.93
1:F:177:VAL:HG22	1:F:199:ILE:HG23	1.48	0.93
2:C:64:LEU:HD21	2:C:355:VAL:HG22	1.47	0.93
2:C:673:LEU:HD22	2:C:868:ASP:H	1.32	0.93
4:J:48:MET:HB2	4:J:54:LEU:HB2	1.49	0.93
3:D:387:LEU:HD22	3:D:387:LEU:H	1.34	0.93
5:X:44:GLU:HA	5:X:44:GLU:OE1	1.68	0.93
2:C:874:LEU:HD13	3:D:783:ARG:HB2	1.50	0.93
3:D:468:LEU:HD22	3:D:473:LEU:HD11	1.47	0.93
1:K:88:ARG:HH12	1:K:121:GLU:HB3	1.34	0.92
1:A:85:LEU:HA	1:A:124:ASN:HD22	1.34	0.92
2:H:1013:TYR:OH	2:H:1063:ARG:HG3	1.68	0.92
3:D:101:HIS:HB2	3:D:514:LEU:HD21	1.50	0.92
2:C:12:VAL:HG13	2:C:13:ILE:H	1.33	0.92
5:Z:5:VAL:HG21	5:Z:68:ILE:HG23	1.50	0.92
3:I:105:VAL:HG12	3:I:106:LYS:HE3	1.50	0.92
3:I:209:ARG:HH12	3:I:391:ALA:HA	1.33	0.92
1:B:53:VAL:HA	1:B:144:VAL:HG22	1.52	0.92
2:H:328:LEU:HD13	2:H:433:THR:CB	1.98	0.92
3:I:636:GLN:NE2	3:I:637:LEU:H	1.67	0.92
5:X:44:GLU:O	5:X:46:ALA:N	2.03	0.92
3:I:103:TRP:HZ2	3:I:604:THR:HG22	1.32	0.92
3:N:151:GLN:HG3	3:N:152:LEU:H	1.33	0.92
1:L:34:VAL:HG22	1:L:181:VAL:HG21	1.48	0.92
2:H:1052:MET:HG3	3:I:623:VAL:HG11	1.49	0.92
3:D:1274:ILE:HA	3:D:1325:LEU:HD13	1.52	0.92
2:C:1109:VAL:HG11	3:D:5:VAL:HG13	1.50	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:O:18:ARG:O	4:O:22:VAL:HG23	1.68	0.92
3:I:928:ALA:HA	3:I:931:LEU:HD12	1.49	0.92
3:N:136:ASP:HB3	3:N:137:PRO:HD3	1.53	0.91
2:C:292:ARG:HD2	2:C:299:LYS:HE3	1.51	0.91
3:I:864:VAL:HG12	3:I:865:THR:H	1.34	0.91
2:C:141:HIS:HB3	2:C:418:LEU:HD23	1.51	0.91
1:F:64:GLU:HA	1:F:75:VAL:HG11	1.52	0.91
2:M:142:ARG:HB3	2:M:142:ARG:HH11	1.36	0.91
3:N:191:LEU:HD21	3:N:197:SER:HB3	1.52	0.91
3:D:804:LEU:HD22	3:D:831:GLY:HA2	1.51	0.91
2:C:368:THR:HB	2:C:369:PRO:HD3	1.52	0.91
2:M:876:VAL:H	2:M:877:PRO:HD2	1.33	0.91
3:I:483:HIS:HB2	3:I:484:PRO:HD3	1.53	0.91
2:H:118:ILE:HD13	2:H:118:ILE:H	1.35	0.91
1:G:80:LEU:HD11	3:I:867:ARG:HD2	1.50	0.91
2:M:722:ILE:HG21	2:M:821:GLU:OE1	1.70	0.91
3:D:850:LEU:HD12	3:D:850:LEU:H	1.36	0.91
3:I:850:LEU:H	3:I:850:LEU:HD12	1.35	0.91
2:M:495:THR:HG21	2:M:517:ARG:HH21	1.34	0.90
1:B:184:THR:HG23	1:B:192:LEU:HD12	1.52	0.90
2:H:577:PRO:HD2	2:H:580:MET:HE3	1.53	0.90
3:N:793:THR:HG21	3:N:906:GLN:HG2	1.53	0.90
1:B:85:LEU:HD12	1:B:124:ASN:HB3	1.50	0.90
3:D:1147:ARG:HB3	3:D:1188:VAL:HG21	1.50	0.90
2:H:250:ARG:HH11	2:H:250:ARG:HA	1.35	0.90
3:N:996:TRP:HA	3:N:999:THR:HG22	1.53	0.90
2:C:198:ARG:HH12	2:C:203:ASP:HA	1.35	0.90
2:H:154:ARG:HH22	2:H:178:PRO:HG2	1.34	0.90
2:H:874:LEU:HD13	3:I:783:ARG:HB2	1.52	0.90
3:D:1192:LEU:HD21	3:D:1369:GLU:HB3	1.53	0.90
2:H:331:ARG:HH12	2:H:427:VAL:HG11	1.34	0.90
2:H:276:LYS:HA	2:H:280:LYS:HZ2	1.36	0.90
2:C:1095:LEU:HD22	3:D:603:LEU:HD22	1.54	0.90
3:I:804:LEU:O	3:I:832:ARG:HG2	1.72	0.90
2:C:595:LEU:HD23	2:C:655:LEU:HB2	1.51	0.90
2:C:805:ARG:HG2	2:C:806:LEU:H	1.36	0.90
3:D:807:ALA:H	3:D:832:ARG:HG2	1.35	0.90
3:D:825:ALA:HB1	3:D:829:VAL:HG21	1.51	0.90
1:G:132:LEU:HD11	1:G:138:LEU:HD13	1.52	0.90
1:B:117:VAL:HG12	1:B:118:ALA:H	1.35	0.90
2:C:606:VAL:HG22	2:C:645:VAL:HG13	1.53	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1237:THR:HG22	3:D:1238:MET:H	1.36	0.90
2:H:136:ILE:HG21	2:H:336:VAL:HG13	1.54	0.90
3:N:522:PRO:HA	3:N:525:ARG:NH1	1.86	0.89
1:B:58:ILE:HG13	1:B:140:MET:HB3	1.50	0.89
1:K:58:ILE:HD13	1:K:140:MET:HB3	1.53	0.89
2:M:756:VAL:HG22	2:M:790:LEU:HB3	1.53	0.89
3:I:1465:ASN:HD21	3:I:1470:ARG:HB3	1.37	0.89
2:C:744:ARG:HG3	2:C:747:ALA:HB2	1.54	0.89
3:N:1422:MET:HE3	3:N:1426:LYS:HG2	1.55	0.89
2:M:12:VAL:HG13	2:M:13:ILE:H	1.38	0.89
3:I:1107:VAL:HB	3:I:1218:GLY:H	1.35	0.89
2:M:168:ARG:HH11	2:M:262:ALA:HB3	1.32	0.89
2:H:140:ILE:HG22	2:H:333:ILE:HG12	1.55	0.89
2:H:97:ARG:C	2:H:98:LEU:HD13	1.93	0.89
2:M:874:LEU:HD13	3:N:783:ARG:HB3	1.55	0.89
1:F:100:LEU:HD11	1:F:102:LYS:HZ1	1.32	0.89
3:D:1426:LYS:HA	3:D:1429:LEU:HD22	1.52	0.89
3:I:809:PRO:HB2	3:I:812:ALA:HB2	1.53	0.89
2:M:537:LYS:HE3	2:M:905:ILE:HD13	1.54	0.89
2:M:328:LEU:HD13	2:M:433:THR:HB	1.52	0.89
4:O:48:MET:SD	4:O:54:LEU:HD12	2.13	0.89
2:M:328:LEU:HB2	2:M:433:THR:HG21	1.54	0.89
3:D:860:LEU:HA	3:D:877:PRO:HB2	1.54	0.89
2:M:946:ARG:HB3	2:M:946:ARG:HH11	1.36	0.89
2:M:987:ILE:HA	3:N:948:THR:HG21	1.55	0.89
2:H:73:LEU:HD22	2:H:94:LEU:HB2	1.55	0.89
3:N:87:ARG:HB3	3:N:523:ASP:HB2	1.52	0.88
2:M:840:ALA:HB2	2:M:846:LYS:HA	1.53	0.88
3:I:716:PHE:O	3:I:718:PRO:HD3	1.72	0.88
3:I:800:LYS:HA	3:I:829:VAL:HG13	1.55	0.88
3:I:1018:ASN:O	3:I:1022:VAL:HG23	1.71	0.88
3:N:165:LYS:NZ	3:N:397:LYS:H	1.71	0.88
2:M:496:ILE:HG13	2:M:531:PHE:HB2	1.54	0.88
4:J:54:LEU:HG	4:J:58:PRO:CG	2.03	0.88
1:L:219:ARG:HB3	1:L:219:ARG:HH11	1.39	0.88
2:C:758:ARG:HD3	2:C:788:THR:O	1.74	0.88
2:M:950:LEU:HB3	2:M:952:LEU:HD23	1.55	0.88
1:L:151:VAL:H	1:L:169:ALA:HB3	1.38	0.88
3:D:358:GLY:H	3:D:385:VAL:HB	1.38	0.88
2:C:939:ARG:HB3	2:C:982:PRO:HG3	1.54	0.88
5:Y:41:ASP:HA	5:Y:45:ASN:HD21	1.37	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:676:ILE:HG23	2:C:988:VAL:HG13	1.55	0.88
3:N:522:PRO:HA	3:N:525:ARG:HH11	1.37	0.88
3:D:1205:TYR:CD2	3:D:1215:VAL:HG21	2.08	0.88
2:C:673:LEU:HD22	2:C:868:ASP:N	1.88	0.88
2:H:611:ILE:HG12	2:H:625:LEU:HD11	1.53	0.88
2:H:679:PHE:HD2	2:H:680:ASP:H	1.18	0.88
3:N:165:LYS:HZ1	3:N:397:LYS:H	0.88	0.88
2:C:118:ILE:HG22	2:C:382:ILE:HD13	1.55	0.88
3:D:684:LYS:HB2	3:D:687:VAL:HG23	1.56	0.88
2:H:873:PRO:HB3	3:I:949:ILE:HD13	1.54	0.88
2:M:833:LEU:HD11	2:M:996:LYS:HD2	1.56	0.88
2:H:21:ILE:H	2:H:21:ILE:HD12	1.36	0.88
3:N:165:LYS:HZ1	3:N:397:LYS:N	1.71	0.87
3:I:881:LEU:HG	3:I:885:ILE:HD11	1.56	0.87
2:M:1059:ASP:HA	2:M:1083:GLU:HG3	1.56	0.87
4:O:73:LEU:H	4:O:73:LEU:HD22	1.35	0.87
2:H:565:GLN:NE2	2:H:842:ARG:HG2	1.89	0.87
1:B:151:VAL:H	1:B:169:ALA:HB3	1.39	0.87
3:D:119:SER:H	3:D:123:LEU:HD22	1.37	0.87
1:B:86:VAL:HG12	1:B:124:ASN:HB2	1.56	0.87
2:H:732:ALA:HA	2:H:735:ARG:HH22	1.39	0.87
2:H:1095:LEU:HD12	3:I:603:LEU:HD13	1.57	0.87
2:H:877:PRO:HB3	3:I:1023:MET:HE1	1.55	0.87
3:N:922:LEU:HD12	3:N:926:LYS:HB3	1.54	0.87
3:I:44:LEU:HD12	3:I:44:LEU:H	1.39	0.87
1:A:212:ASN:HD22	1:A:212:ASN:H	1.20	0.87
2:C:154:ARG:HH12	2:C:178:PRO:HG3	1.39	0.87
2:C:160:ALA:HB3	2:C:174:LEU:HB2	1.57	0.87
3:N:922:LEU:HD12	3:N:926:LYS:CB	2.04	0.87
3:N:844:ALA:HB1	3:N:867:ARG:HH22	1.40	0.87
3:I:477:LEU:HD21	3:I:495:ARG:HD3	1.57	0.87
3:D:1363:LEU:H	3:D:1363:LEU:HD23	1.39	0.87
2:H:217:LEU:H	2:H:217:LEU:HD22	1.39	0.87
3:D:947:ILE:O	3:D:947:ILE:HD12	1.75	0.87
1:B:54:THR:HG21	1:B:143:ARG:HH21	1.40	0.87
1:B:100:LEU:HD23	1:B:115:LEU:HD21	1.57	0.87
3:I:771:SER:HB3	3:I:778:LEU:CD2	2.04	0.87
2:H:987:ILE:HG23	3:I:948:THR:HG21	1.57	0.87
2:H:333:ILE:H	2:H:465:GLY:HA3	1.38	0.87
2:H:154:ARG:NH2	2:H:178:PRO:HG2	1.89	0.87
2:H:157:ARG:HB3	2:H:176:VAL:HG21	1.57	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:184:THR:HB	1:A:192:LEU:HB2	1.56	0.87
2:M:726:ILE:HG12	2:M:734:LEU:HD11	1.57	0.87
3:I:358:GLY:H	3:I:385:VAL:HB	1.39	0.87
2:M:405:ARG:HD3	2:M:543:ASN:HD22	1.39	0.86
3:I:1379:VAL:HG12	3:I:1419:PRO:HA	1.56	0.86
1:A:103:ALA:H	1:A:138:LEU:CD2	1.87	0.86
3:N:922:LEU:HB2	3:N:926:LYS:HD3	1.55	0.86
4:E:6:ILE:HA	4:E:9:LEU:HD12	1.55	0.86
1:L:138:LEU:HD22	1:L:139:ASN:N	1.89	0.86
2:H:565:GLN:HE22	2:H:842:ARG:HG2	1.40	0.86
3:I:726:ILE:H	3:I:726:ILE:HD12	1.41	0.86
2:M:17:PRO:HB2	2:M:20:GLU:HB3	1.55	0.86
3:N:187:LYS:HG3	3:N:199:LEU:HA	1.54	0.86
2:H:710:ILE:HG21	2:H:756:VAL:HG21	1.55	0.86
2:C:64:LEU:HD11	2:C:372:LEU:HD21	1.56	0.86
2:H:572:ILE:HD12	2:H:573:ARG:H	1.38	0.86
1:A:44:LEU:O	1:A:174:VAL:HG21	1.74	0.86
3:D:902:LEU:H	3:D:902:LEU:HD23	1.41	0.86
3:N:785:ILE:HD12	3:N:938:GLY:HA3	1.55	0.86
1:K:35:THR:HG21	1:L:43:ILE:CD1	2.06	0.86
3:I:642:CYS:SG	3:I:716:PHE:HB2	2.15	0.86
3:D:563:PRO:HA	2:H:223:ASP:HB2	1.56	0.86
3:D:353:VAL:HG12	3:D:368:VAL:HG22	1.57	0.86
3:N:18:ILE:HG23	3:N:518:PRO:HG3	1.58	0.86
3:N:1217:ILE:H	3:N:1217:ILE:HD12	1.38	0.86
3:N:661:MET:HE3	3:N:673:ALA:HB1	1.56	0.86
3:N:1493:LYS:HA	3:N:1493:LYS:HE2	1.56	0.86
3:D:365:ASP:H	3:D:379:ALA:CB	1.89	0.86
2:H:676:ILE:HG23	2:H:988:VAL:HG13	1.57	0.86
3:D:1122:LEU:HD11	3:D:1186:VAL:HG23	1.55	0.86
3:D:645:PRO:HB2	3:D:648:MET:HG3	1.58	0.86
5:Z:26:LEU:HD13	5:Z:58:ASN:HD22	1.40	0.86
2:M:415:PRO:HD2	2:M:418:LEU:HD21	1.56	0.86
2:H:17:PRO:HB2	2:H:20:GLU:HB3	1.57	0.86
2:C:374:ASN:HD22	2:C:374:ASN:N	1.74	0.86
3:D:1206:GLY:O	3:D:1215:VAL:HG23	1.75	0.85
3:N:785:ILE:HD13	3:N:935:LYS:HA	1.56	0.85
1:K:48:ILE:HG22	1:K:173:PRO:HD2	1.56	0.85
3:I:804:LEU:HD21	3:I:831:GLY:HA2	1.57	0.85
5:Z:73:VAL:HG12	5:Z:74:ILE:H	1.41	0.85
2:C:65:VAL:HB	2:C:101:ILE:O	1.76	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:190:THR:HB	3:N:722:GLU:OE1	1.75	0.85
2:C:146:VAL:HG11	2:C:281:LEU:HD22	1.56	0.85
2:C:572:ILE:HD13	2:C:573:ARG:H	1.38	0.85
3:N:902:LEU:HD23	3:N:902:LEU:H	1.40	0.85
3:N:761:ILE:HD13	4:O:20:THR:HA	1.56	0.85
2:C:950:LEU:HB3	2:C:952:LEU:HD23	1.58	0.85
3:D:1245:GLY:O	3:D:1246:VAL:HG13	1.75	0.85
3:I:637:LEU:HD21	3:I:642:CYS:HA	1.56	0.85
1:B:124:ASN:ND2	1:B:127:LEU:HD12	1.90	0.85
2:C:479:VAL:HG11	2:C:503:LEU:HD21	1.58	0.85
2:H:160:ALA:HB3	2:H:174:LEU:HB2	1.57	0.85
5:X:45:ASN:O	5:X:46:ALA:C	2.15	0.85
1:B:156:HIS:ND1	1:B:158:ILE:HG12	1.92	0.85
1:G:85:LEU:HA	1:G:124:ASN:HD22	1.39	0.85
2:M:572:ILE:HD12	2:M:701:THR:HB	1.58	0.85
3:N:825:ALA:HB1	3:N:829:VAL:HG21	1.58	0.85
2:M:1095:LEU:HB3	3:N:603:LEU:HD13	1.56	0.85
3:N:546:ARG:NH1	3:N:546:ARG:HB3	1.91	0.85
2:H:876:VAL:H	2:H:877:PRO:HD2	1.42	0.85
3:N:1272:ALA:HA	3:N:1326:THR:HB	1.57	0.85
3:D:1209:LEU:HD23	3:D:1211:MET:N	1.92	0.85
3:D:461:ILE:HA	3:D:464:LEU:HD12	1.59	0.85
3:I:767:HIS:HA	3:I:924:MET:SD	2.16	0.85
3:N:710:ARG:HH22	3:N:1210:SER:HB3	1.38	0.85
3:D:564:GLU:N	2:H:223:ASP:HB2	1.91	0.85
3:I:720:LEU:H	3:I:720:LEU:HD13	1.36	0.85
3:D:1481:VAL:HG11	4:E:18:ARG:HA	1.57	0.85
3:D:1106:VAL:HG22	3:D:1220:ALA:HA	1.58	0.85
4:J:54:LEU:HG	4:J:58:PRO:HG3	1.56	0.84
1:K:54:THR:HG22	1:K:158:ILE:HG13	1.59	0.84
2:M:857:ASP:HB2	2:M:978:ARG:HG2	1.59	0.84
3:D:484:PRO:HB3	3:D:488:ARG:NE	1.91	0.84
3:I:654:LYS:HB3	3:I:655:PRO:HD3	1.58	0.84
3:N:85:VAL:HG23	3:N:86:ARG:HD3	1.59	0.84
1:G:117:VAL:HG12	1:G:118:ALA:H	1.41	0.84
3:I:703:ASN:HD22	3:I:713:ILE:HG23	1.42	0.84
3:I:8:VAL:HG23	3:I:1459:LEU:HD11	1.59	0.84
3:D:1345:GLU:HA	3:D:1348:LEU:HD22	1.56	0.84
1:F:109:VAL:HB	1:F:130:ALA:H	1.42	0.84
3:N:1135:ARG:HB2	3:N:1140:ILE:HD11	1.58	0.84
3:I:890:VAL:HG12	3:I:926:LYS:HG3	1.59	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:107:LEU:HD13	2:M:109:LYS:H	1.42	0.84
2:C:1056:LYS:HB3	3:D:623:VAL:HG12	1.59	0.84
1:A:102:LYS:HA	1:A:138:LEU:HG	1.58	0.84
3:I:1485:GLN:HG3	4:J:79:LEU:H	1.40	0.84
3:I:131:LYS:HD3	3:I:568:ARG:HG2	1.59	0.84
3:D:813:LEU:HD12	3:D:814:ALA:N	1.91	0.84
2:M:312:ALA:HB1	2:M:318:PRO:HG2	1.59	0.84
3:D:996:TRP:HA	3:D:999:THR:CG2	2.06	0.84
2:M:136:ILE:HD12	2:M:136:ILE:H	1.42	0.84
3:I:825:ALA:HB1	3:I:829:VAL:HG21	1.56	0.84
3:I:1147:ARG:HB3	3:I:1188:VAL:HG21	1.60	0.84
2:C:516:ARG:NH2	3:D:1068:LEU:HB2	1.91	0.84
2:C:808:ARG:HH21	2:C:820:ARG:HE	1.26	0.84
3:I:1109:GLU:CD	3:I:1201:CYS:HA	1.98	0.84
1:L:189:ARG:HG3	1:L:192:LEU:HD21	1.60	0.84
3:D:1095:THR:HG23	3:D:1230:GLY:HA3	1.57	0.84
2:M:18:LEU:H	2:M:18:LEU:HD12	1.42	0.84
2:H:159:ILE:HG22	2:H:175:GLU:HA	1.59	0.84
3:D:361:VAL:HG12	3:D:383:GLY:H	1.43	0.84
3:I:1020:LEU:HA	3:I:1023:MET:HE2	1.60	0.84
3:N:390:PRO:HB2	3:N:393:ILE:HD11	1.59	0.84
3:N:600:LEU:HD12	3:N:600:LEU:H	1.43	0.84
3:I:522:PRO:HA	3:I:525:ARG:NH1	1.93	0.84
3:N:809:PRO:HB2	3:N:812:ALA:HB2	1.60	0.84
3:I:820:GLU:HG3	3:I:836:VAL:HG11	1.59	0.84
3:D:1472:ILE:H	3:D:1472:ILE:CD1	1.89	0.83
2:C:850:ALA:HA	3:D:632:VAL:HG11	1.58	0.83
2:H:276:LYS:HA	2:H:280:LYS:NZ	1.92	0.83
1:F:219:ARG:HA	1:F:222:LEU:HD22	1.59	0.83
1:G:90:LEU:HB3	1:G:119:ASP:HB3	1.59	0.83
3:I:875:THR:HG22	3:I:879:ARG:HD3	1.58	0.83
3:N:638:LYS:H	3:N:641:GLN:HE22	1.21	0.83
2:H:701:THR:HG23	2:H:832:LYS:HA	1.58	0.83
2:H:10:ARG:HA	2:H:10:ARG:HH11	1.39	0.83
2:C:400:PRO:O	2:C:404:LEU:HD23	1.78	0.83
3:I:600:LEU:HD12	3:I:600:LEU:H	1.41	0.83
2:C:431:HIS:H	2:C:434:HIS:CE1	1.96	0.83
3:N:983:LEU:HD12	3:N:987:GLU:HB3	1.58	0.83
1:A:41:ARG:HH11	1:A:177:VAL:HB	1.43	0.83
2:H:383:ARG:HH11	2:H:383:ARG:HB2	1.41	0.83
2:C:872:ASN:HD21	2:C:874:LEU:HD12	1.40	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:1052:MET:HG3	3:N:623:VAL:HG11	1.60	0.83
3:D:137:PRO:HG3	3:D:453:ASP:H	1.42	0.83
3:N:179:VAL:HG13	3:N:183:GLU:HB3	1.59	0.83
3:N:720:LEU:H	3:N:720:LEU:HD13	1.43	0.83
2:C:697:ARG:HD2	2:C:699:PHE:CZ	2.14	0.83
3:I:1036:ARG:HH21	3:I:1043:GLY:H	1.25	0.83
2:M:676:ILE:HG23	2:M:988:VAL:HG13	1.60	0.83
1:G:44:LEU:HD13	1:G:177:VAL:HG11	1.60	0.83
2:H:939:ARG:HB3	2:H:982:PRO:HG3	1.59	0.83
3:I:158:TYR:O	3:I:162:ARG:HB3	1.78	0.83
3:D:1213:ARG:HH22	4:E:10:PHE:HB3	1.43	0.83
2:H:73:LEU:HB2	2:H:93:PRO:O	1.79	0.83
1:G:100:LEU:HB2	1:G:115:LEU:HD11	1.59	0.83
3:N:1122:LEU:HD21	3:N:1144:LEU:HD11	1.60	0.83
2:M:1032:PHE:HZ	2:M:1040:LEU:HD22	1.43	0.83
2:M:151:ASP:OD1	2:M:154:ARG:HB3	1.77	0.83
3:D:102:ILE:HD11	3:D:586:ARG:HH11	1.42	0.83
3:N:930:LEU:O	3:N:934:LEU:HG	1.79	0.83
2:M:754:ILE:H	2:M:754:ILE:HD12	1.41	0.83
2:M:474:VAL:HG11	2:M:529:VAL:HG12	1.59	0.83
3:D:1252:ILE:HG12	3:D:1253:THR:N	1.93	0.83
2:C:1014:SER:HB3	2:C:1019:GLN:H	1.44	0.83
2:M:690:ILE:HG23	2:M:852:ILE:HG23	1.61	0.83
3:N:387:LEU:CD1	3:N:387:LEU:H	1.91	0.82
3:N:1166:LEU:HD23	3:N:1166:LEU:H	1.42	0.82
3:D:1274:ILE:HG22	3:D:1323:GLN:O	1.78	0.82
3:I:1166:LEU:H	3:I:1166:LEU:HD23	1.44	0.82
3:N:1034:GLN:HA	3:N:1037:GLN:HE21	1.43	0.82
3:D:150:ARG:HH12	3:D:468:LEU:HD11	1.43	0.82
1:A:85:LEU:HD12	1:A:124:ASN:HB3	1.59	0.82
2:H:668:LEU:H	2:H:668:LEU:HD12	1.42	0.82
4:J:36:LYS:HE3	4:J:36:LYS:HA	1.61	0.82
2:H:749:VAL:HG12	2:H:753:ASP:HB2	1.61	0.82
2:H:98:LEU:HD22	2:H:98:LEU:N	1.92	0.82
2:H:800:VAL:HG13	2:H:826:TYR:O	1.79	0.82
3:N:771:SER:HB2	3:N:778:LEU:HD11	1.59	0.82
3:N:658:LEU:HA	3:N:661:MET:HG3	1.60	0.82
2:M:122:THR:HG22	2:M:123:GLU:H	1.43	0.82
3:I:366:LYS:HD2	3:I:366:LYS:H	1.42	0.82
1:G:185:ARG:HG3	3:I:720:LEU:HG	1.62	0.82
3:N:1106:VAL:HG13	3:N:1219:GLU:O	1.80	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Z:26:LEU:HD22	5:Z:58:ASN:HB3	1.61	0.82
4:J:18:ARG:O	4:J:22:VAL:HG23	1.78	0.82
2:M:1053:LEU:HD12	2:M:1054:THR:HG23	1.58	0.82
1:K:39:PRO:HG3	1:L:39:PRO:HG3	1.62	0.82
2:M:803:THR:HG22	2:M:825:VAL:HA	1.59	0.82
3:I:695:ILE:HD12	3:I:698:LYS:HB2	1.60	0.82
3:N:414:ARG:HH11	3:N:414:ARG:HB2	1.44	0.82
2:H:53:PRO:HG3	2:H:67:ASP:OD1	1.80	0.82
2:H:939:ARG:NH1	2:H:981:GLU:HG3	1.93	0.82
2:M:263:ASP:HB2	2:M:264:PRO:HD3	1.62	0.82
1:F:111:ALA:HA	1:F:129:ILE:HD11	1.59	0.82
3:I:1211:MET:HG2	3:I:1212:ALA:H	1.44	0.82
2:H:524:VAL:HG11	2:H:528:GLU:HB2	1.60	0.82
3:I:835:SER:H	3:I:838:ARG:HH11	1.27	0.82
2:M:937:ASP:HB3	2:M:940:GLU:HG3	1.62	0.82
3:I:87:ARG:HB3	3:I:523:ASP:HB2	1.60	0.82
3:N:782:SER:O	3:N:785:ILE:HG22	1.80	0.82
2:C:129:ILE:HD12	2:C:129:ILE:N	1.95	0.82
3:I:1197:ARG:HD3	3:I:1198:TYR:H	1.45	0.82
1:G:106:PRO:HA	1:G:132:LEU:O	1.78	0.82
1:A:214:ALA:HA	1:A:217:ILE:HD12	1.62	0.82
3:I:1042:ARG:HD2	3:I:1061:PHE:HE1	1.42	0.82
1:K:102:LYS:HG2	1:K:139:ASN:HA	1.60	0.82
3:D:411:THR:HG23	3:D:437:VAL:H	1.44	0.82
2:C:212:GLY:HA3	2:C:218:VAL:HB	1.60	0.82
3:I:1220:ALA:HB1	3:I:1223:ILE:HD12	1.61	0.81
5:Y:144:LYS:HD3	5:Y:147:ARG:HH11	1.45	0.81
2:C:15:LEU:HD12	2:C:15:LEU:H	1.45	0.81
3:D:737:ASN:ND2	5:X:42:LEU:HD21	1.93	0.81
3:D:1200:VAL:HG12	3:D:1201:CYS:H	1.46	0.81
1:K:165:ILE:H	1:K:165:ILE:HD13	1.44	0.81
2:H:1014:SER:HB3	2:H:1019:GLN:H	1.42	0.81
3:D:715:ALA:HB3	3:D:764:LEU:HA	1.61	0.81
2:M:185:LYS:HE2	2:M:190:LYS:HD3	1.61	0.81
2:M:1049:LEU:HD23	3:N:1472:ILE:HD12	1.62	0.81
3:D:843:PHE:HB2	3:D:866:VAL:HG22	1.60	0.81
3:D:1102:THR:HA	3:D:1105:ILE:HD13	1.60	0.81
2:M:872:ASN:HD21	2:M:874:LEU:HD12	1.44	0.81
3:I:804:LEU:HD21	3:I:831:GLY:CA	2.10	0.81
3:D:162:ARG:HE	3:D:452:ILE:HG12	1.45	0.81
2:C:700:TYR:HB3	2:C:833:LEU:HD13	1.61	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:172:PRO:HG2	3:D:175:VAL:HB	1.63	0.81
2:H:537:LYS:HE2	2:H:905:ILE:HD13	1.60	0.81
2:M:339:LEU:HD13	2:M:391:LEU:HD11	1.62	0.81
2:M:154:ARG:HH12	2:M:157:ARG:H	1.27	0.81
2:H:263:ASP:HB2	2:H:264:PRO:HD3	1.63	0.81
2:H:749:VAL:O	2:H:750:LYS:HD2	1.80	0.81
2:M:332:ARG:HB3	2:M:332:ARG:HH11	1.45	0.81
3:N:36:THR:HB	3:N:38:LYS:HG3	1.63	0.81
1:K:229:GLN:HB3	1:L:12:THR:HA	1.63	0.81
3:D:1053:PHE:HD2	3:D:1054:GLU:H	1.26	0.81
2:C:290:LEU:CD2	2:C:290:LEU:H	1.93	0.81
3:N:1434:TRP:CZ3	3:N:1457:ASP:HB2	2.16	0.81
1:G:185:ARG:HD2	1:G:186:LEU:N	1.96	0.81
1:K:42:ARG:HH12	1:L:34:VAL:HB	1.45	0.81
4:E:48:MET:SD	4:E:54:LEU:HD12	2.21	0.81
3:N:639:LEU:HD13	3:N:640:HIS:N	1.96	0.81
3:I:1146:GLY:HA3	3:I:1207:TYR:HB2	1.61	0.81
5:Y:134:VAL:HG22	5:Y:153:ALA:HA	1.62	0.81
3:D:141:ILE:HD11	3:D:432:TYR:HB2	1.61	0.81
1:K:65:PHE:HE1	2:M:799:ILE:HD12	1.44	0.81
2:C:474:VAL:HG11	2:C:529:VAL:HG12	1.63	0.81
3:D:720:LEU:HD13	3:D:720:LEU:H	1.46	0.81
1:L:123:MET:SD	1:L:123:MET:N	2.54	0.81
3:I:103:TRP:CZ2	3:I:604:THR:HG22	2.15	0.81
2:M:673:LEU:HD12	2:M:867:VAL:HA	1.61	0.81
2:M:185:LYS:HG2	2:M:190:LYS:HG2	1.62	0.81
3:N:112:ILE:HB	3:N:512:MET:HE3	1.62	0.81
2:C:1066:ALA:HA	2:C:1077:PRO:CD	2.11	0.81
2:M:297:GLU:HG2	2:M:298:PHE:H	1.45	0.80
3:N:1102:THR:HA	3:N:1105:ILE:HD13	1.63	0.80
3:I:912:LYS:O	3:I:915:VAL:HG23	1.81	0.80
3:N:412:GLY:HA2	3:N:434:ARG:HE	1.47	0.80
3:N:804:LEU:O	3:N:804:LEU:HD22	1.81	0.80
3:I:857:ILE:HG22	3:I:858:VAL:HG13	1.63	0.80
2:C:909:ALA:HB1	2:C:914:ILE:HD11	1.64	0.80
3:D:673:ALA:HA	3:D:676:MET:HG3	1.61	0.80
1:F:35:THR:HG21	1:G:43:ILE:CD1	2.10	0.80
3:N:1066:THR:HG23	3:N:1069:GLU:HB2	1.63	0.80
2:H:367:LEU:HB3	2:H:371:LYS:HG2	1.62	0.80
3:D:1320:GLU:H	3:D:1323:GLN:HE21	1.29	0.80
2:H:966:LEU:HD21	2:H:986:PRO:HG2	1.63	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:876:VAL:H	2:C:877:PRO:HD2	1.46	0.80
2:C:172:ILE:H	2:C:172:ILE:HD12	1.45	0.80
2:M:154:ARG:NH1	2:M:157:ARG:H	1.79	0.80
2:H:238:LEU:O	2:H:241:LEU:HB3	1.81	0.80
1:B:57:TYR:C	1:B:58:ILE:HD12	2.00	0.80
2:C:73:LEU:N	2:C:73:LEU:HD12	1.97	0.80
3:I:871:LYS:HG2	3:I:873:LEU:HG	1.63	0.80
1:G:219:ARG:HB3	1:G:219:ARG:NH1	1.95	0.80
3:D:810:GLU:O	3:D:813:LEU:HG	1.81	0.80
3:D:90:MET:HG2	3:D:521:PRO:HD3	1.64	0.80
2:C:94:LEU:HD13	2:C:94:LEU:O	1.82	0.80
2:M:495:THR:HG21	2:M:517:ARG:NH2	1.96	0.80
1:G:99:LEU:H	1:G:99:LEU:HD12	1.46	0.80
2:C:1100:GLN:HB3	3:D:9:ARG:HB3	1.64	0.80
3:N:1211:MET:HG2	3:N:1212:ALA:H	1.46	0.80
2:C:89:THR:HA	2:C:129:ILE:O	1.82	0.80
3:N:708:LEU:H	3:N:708:LEU:HD12	1.45	0.80
3:N:1364:HIS:CE1	3:N:1366:LYS:HG3	2.17	0.80
2:C:679:PHE:HB2	2:C:683:ASN:HD21	1.46	0.80
3:D:89:ARG:O	3:D:521:PRO:HG3	1.82	0.80
1:F:101:LEU:HG	1:F:114:PHE:HA	1.62	0.80
2:C:848:VAL:HG12	2:C:849:VAL:H	1.47	0.80
3:I:843:PHE:HB2	3:I:866:VAL:HG22	1.64	0.79
3:D:358:GLY:N	3:D:385:VAL:HB	1.97	0.79
3:I:496:LEU:HD23	3:I:1388:ARG:HD3	1.62	0.79
2:C:233:GLU:HA	2:C:236:ILE:HD13	1.63	0.79
2:M:334:ARG:HG2	2:M:338:GLU:OE2	1.82	0.79
1:F:124:ASN:HD22	1:F:127:LEU:HB2	1.47	0.79
5:X:3:ARG:NH1	5:X:6:LYS:HE3	1.96	0.79
2:H:988:VAL:HG12	3:I:948:THR:OG1	1.83	0.79
2:M:683:ASN:HD22	2:M:683:ASN:N	1.76	0.79
3:I:805:GLU:HA	3:I:832:ARG:CG	2.13	0.79
3:N:1363:LEU:HD23	3:N:1363:LEU:H	1.46	0.79
1:A:14:ARG:HH22	2:C:934:PHE:HZ	1.30	0.79
2:M:367:LEU:HD13	2:M:371:LYS:HG2	1.64	0.79
2:H:165:LEU:HB3	2:H:265:ARG:HH21	1.45	0.79
3:D:102:ILE:CD1	3:D:586:ARG:HH11	1.94	0.79
2:M:6:PHE:CD1	2:M:909:ALA:HB2	2.18	0.79
3:I:804:LEU:CD1	3:I:831:GLY:HA2	2.13	0.79
2:M:238:LEU:HD23	2:M:241:LEU:HD12	1.63	0.79
3:I:546:ARG:HH11	3:I:546:ARG:HB2	1.47	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:401:TYR:HB3	3:I:427:VAL:CG1	2.12	0.79
3:I:1036:ARG:HH11	3:I:1036:ARG:HB3	1.48	0.79
3:D:807:ALA:N	3:D:832:ARG:HG2	1.97	0.79
1:B:57:TYR:HE1	1:B:163:ASN:HD21	1.31	0.79
3:D:737:ASN:HD21	5:X:42:LEU:HD21	1.46	0.79
1:K:88:ARG:HH11	1:K:88:ARG:HB3	1.48	0.79
3:N:758:GLU:HB3	4:O:20:THR:HG21	1.64	0.79
3:I:119:SER:HB2	3:I:123:LEU:HB2	1.63	0.79
3:I:670:VAL:HG13	3:I:671:LYS:H	1.48	0.79
3:N:347:VAL:HG13	3:N:351:MET:HB3	1.64	0.79
3:N:996:TRP:O	3:N:1000:THR:HG22	1.83	0.79
1:K:89:PHE:HB3	1:K:94:LEU:HD12	1.65	0.79
5:Y:106:SER:HA	5:Y:121:ASP:HB2	1.65	0.79
1:F:224:TYR:CE1	1:G:9:PRO:HD2	2.18	0.79
2:C:69:LEU:HD11	2:C:99:GLN:HG2	1.65	0.79
3:D:1301:LYS:HA	3:D:1301:LYS:NZ	1.98	0.79
2:M:861:LEU:HD23	2:M:862:PRO:HD2	1.65	0.79
3:I:947:ILE:HD12	3:I:947:ILE:H	1.47	0.79
3:N:150:ARG:NH1	3:N:468:LEU:HD11	1.97	0.79
3:N:1209:LEU:HD23	3:N:1211:MET:N	1.97	0.79
1:B:45:LEU:HD11	1:B:177:VAL:HG22	1.65	0.79
2:H:304:LEU:HB3	2:H:305:PRO:HD3	1.64	0.79
3:D:1394:VAL:HB	3:D:1397:LYS:HG3	1.64	0.79
1:F:197:LEU:H	1:F:197:LEU:HD23	1.46	0.79
3:I:150:ARG:HH22	3:I:468:LEU:HD11	1.48	0.79
2:H:474:VAL:HG11	2:H:529:VAL:HG12	1.65	0.79
3:I:690:ALA:O	3:I:694:VAL:HG23	1.83	0.79
2:C:312:ALA:HB1	2:C:318:PRO:HG2	1.62	0.79
3:N:168:THR:HG23	3:N:394:LEU:HD22	1.65	0.79
3:D:400:VAL:HG22	3:D:402:PRO:HD3	1.65	0.79
2:H:205:GLU:O	2:H:209:ARG:HG2	1.83	0.79
3:D:716:PHE:O	3:D:718:PRO:HD3	1.82	0.79
3:D:719:VAL:O	3:D:721:VAL:HG13	1.83	0.79
2:C:141:HIS:CE1	2:C:332:ARG:HB3	2.18	0.79
3:N:660:LYS:HD3	3:N:693:GLU:HG2	1.63	0.79
2:H:393:GLN:NE2	2:H:409:ARG:HH21	1.81	0.79
3:N:550:ARG:CZ	3:N:573:MET:HB3	2.13	0.79
3:D:996:TRP:CA	3:D:999:THR:HG22	2.11	0.78
2:H:690:ILE:HG23	2:H:852:ILE:HG23	1.65	0.78
2:H:854:PRO:HB2	2:H:856:GLU:HG2	1.64	0.78
2:C:750:LYS:HG3	2:C:751:PRO:HD2	1.66	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:25:SER:OG	2:M:335:THR:HB	1.83	0.78
1:L:53:VAL:HA	1:L:144:VAL:HG22	1.65	0.78
1:B:100:LEU:N	1:B:100:LEU:HD22	1.98	0.78
2:C:404:LEU:HD11	2:C:591:SER:HA	1.63	0.78
1:G:213:GLN:O	1:G:217:ILE:HG12	1.83	0.78
2:M:1076:VAL:HG21	3:N:752:SER:HA	1.63	0.78
2:H:80:GLN:HG2	2:H:90:TYR:HE2	1.48	0.78
1:L:45:LEU:HD11	1:L:177:VAL:HG22	1.64	0.78
3:N:387:LEU:N	3:N:387:LEU:HD13	1.97	0.78
2:H:267:TYR:HB2	2:H:272:ALA:CB	2.13	0.78
2:M:129:ILE:HD13	2:M:134:ARG:HG3	1.65	0.78
1:L:81:ASN:ND2	1:L:129:ILE:HA	1.97	0.78
3:I:782:SER:O	3:I:786:ILE:HG12	1.83	0.78
3:D:1252:ILE:HD11	3:D:1258:ARG:NH1	1.98	0.78
3:D:1461:GLY:H	3:D:1473:PRO:HG2	1.49	0.78
1:B:176:ARG:HG2	1:B:177:VAL:N	1.98	0.78
3:D:1120:VAL:HG21	3:D:1144:LEU:HD21	1.66	0.78
3:D:96:ALA:HB3	3:D:554:LEU:HD23	1.65	0.78
2:C:49:ARG:NH1	2:C:49:ARG:HB2	1.97	0.78
2:H:542:VAL:HG12	2:H:546:LEU:HD21	1.66	0.78
3:I:1269:LYS:HG2	3:I:1270:ALA:N	1.98	0.78
1:F:56:VAL:HA	1:F:141:GLU:O	1.84	0.78
2:M:572:ILE:HG12	2:M:573:ARG:N	1.98	0.78
2:M:134:ARG:HH12	2:M:392:SER:C	1.87	0.78
2:H:343:GLN:HG2	2:H:385:PHE:HB2	1.65	0.78
5:X:6:LYS:HD2	5:X:85:LEU:CD1	2.13	0.78
2:H:1076:VAL:HG21	3:I:752:SER:HA	1.65	0.78
3:N:707:THR:HG23	3:N:712:GLY:HA3	1.65	0.78
2:M:164:PRO:O	2:M:169:GLY:HA3	1.83	0.78
2:C:1040:LEU:HD23	2:C:1049:LEU:HD13	1.65	0.78
3:I:644:LEU:H	3:I:721:VAL:HG21	1.49	0.78
3:N:1107:VAL:O	3:N:1218:GLY:HA2	1.83	0.78
3:D:737:ASN:HD21	5:X:42:LEU:CD2	1.96	0.78
2:M:89:THR:HG21	2:M:383:ARG:HH21	1.48	0.78
3:D:834:THR:OG1	3:D:838:ARG:HB2	1.82	0.78
3:I:162:ARG:CD	3:I:452:ILE:HD12	2.13	0.78
3:D:1087:ARG:NE	3:D:1235:GLN:HA	1.98	0.78
3:N:991:GLN:HE21	3:N:991:GLN:HA	1.49	0.78
3:I:800:LYS:NZ	3:I:830:ALA:HB3	1.98	0.78
3:D:1425:THR:O	3:D:1429:LEU:HD13	1.84	0.78
3:D:367:ILE:HD12	3:D:377:VAL:HG12	1.66	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:115:LEU:HD12	2:M:378:LEU:HD22	1.63	0.78
2:H:1045:ALA:HB1	2:H:1048:THR:HB	1.66	0.78
2:M:679:PHE:HD2	2:M:680:ASP:H	1.31	0.78
4:E:54:LEU:HG	4:E:58:PRO:HG3	1.66	0.78
5:Z:7:LEU:HD22	5:Z:109:GLU:HG3	1.63	0.78
2:M:754:ILE:HA	2:M:791:ARG:HA	1.66	0.78
2:C:1031:ARG:HH21	3:D:621:LYS:NZ	1.81	0.78
3:I:1295:GLU:HB3	3:I:1300:SER:HB3	1.66	0.78
2:M:22:GLN:OE1	2:M:336:VAL:HG23	1.84	0.78
2:H:470:PRO:HG2	2:H:538:GLN:NE2	1.99	0.78
1:F:59:GLU:HG3	1:F:139:ASN:HB3	1.65	0.78
3:D:1147:ARG:HB2	3:D:1166:LEU:HD21	1.66	0.78
3:D:431:VAL:HG12	3:D:432:TYR:H	1.49	0.78
3:D:141:ILE:HG23	3:D:448:GLU:CD	2.04	0.78
3:N:1404:ASN:HA	3:N:1408:ILE:HD13	1.66	0.78
2:C:689:VAL:HG12	2:C:690:ILE:H	1.48	0.78
2:M:98:LEU:O	2:M:98:LEU:HD22	1.85	0.77
1:G:48:ILE:HD12	1:G:48:ILE:H	1.49	0.77
1:B:76:VAL:HA	1:B:79:ILE:HG12	1.67	0.77
3:I:481:MET:HG2	3:I:1388:ARG:NH2	1.99	0.77
3:I:84:ILE:HG22	3:I:87:ARG:HH21	1.49	0.77
3:I:660:LYS:HG3	3:I:664:LYS:HE2	1.66	0.77
2:M:39:ARG:HE	2:M:39:ARG:HA	1.49	0.77
2:M:107:LEU:O	2:M:108:ILE:HD13	1.84	0.77
1:A:35:THR:HG21	1:B:43:ILE:HD11	1.66	0.77
3:D:477:LEU:O	3:D:481:MET:HG2	1.83	0.77
1:K:229:GLN:HG3	1:K:230:ALA:H	1.48	0.77
3:D:792:ILE:HD11	3:D:881:LEU:HD23	1.65	0.77
3:I:963:TYR:HE2	3:I:1002:LYS:HB3	1.49	0.77
1:F:140:MET:N	1:F:140:MET:SD	2.57	0.77
1:B:117:VAL:HB	1:B:120:VAL:HG21	1.66	0.77
1:K:184:THR:HG21	1:K:192:LEU:HD12	1.66	0.77
2:H:806:LEU:HB2	2:H:822:VAL:HG22	1.67	0.77
3:D:567:ILE:HG23	3:D:571:LYS:HZ3	1.49	0.77
3:N:95:LEU:HD21	3:N:574:LEU:HD21	1.66	0.77
3:I:141:ILE:HD12	3:I:448:GLU:HG3	1.64	0.77
2:C:976:ASP:OD1	2:C:978:ARG:HG3	1.83	0.77
3:D:1144:LEU:HD11	3:D:1186:VAL:HG21	1.66	0.77
2:H:270:GLY:HA2	2:H:274:ARG:HD2	1.66	0.77
1:K:59:GLU:HB2	1:K:139:ASN:HD22	1.50	0.77
2:M:358:ARG:HA	2:M:361:MET:SD	2.24	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:383:ARG:HH11	2:M:383:ARG:HB2	1.49	0.77
2:H:329:GLY:HA3	2:H:489:THR:HG23	1.67	0.77
1:A:86:VAL:HG12	1:A:124:ASN:HB2	1.65	0.77
1:G:118:ALA:O	1:G:120:VAL:HG22	1.83	0.77
2:M:897:LEU:HB3	2:M:899:GLN:HE21	1.49	0.77
2:H:983:ILE:CD1	3:I:944:THR:HA	2.12	0.77
2:M:140:ILE:HG22	2:M:333:ILE:HD12	1.66	0.77
4:O:54:LEU:HG	4:O:58:PRO:HB3	1.67	0.77
2:C:712:ALA:HB3	2:C:821:GLU:HG3	1.67	0.77
2:H:1000:MET:HG3	2:H:1001:VAL:H	1.49	0.77
3:I:881:LEU:O	3:I:885:ILE:HG13	1.83	0.77
3:D:829:VAL:HG12	3:D:830:ALA:H	1.49	0.77
1:K:86:VAL:HG12	1:K:124:ASN:ND2	1.99	0.77
1:F:101:LEU:HD23	1:F:102:LYS:H	1.48	0.77
2:H:840:ALA:HB2	2:H:846:LYS:HA	1.66	0.77
5:X:119:ILE:HG21	5:X:125:MET:HB3	1.66	0.77
3:N:179:VAL:CG1	3:N:183:GLU:HB3	2.13	0.77
1:K:64:GLU:HA	1:K:75:VAL:HG11	1.65	0.77
3:N:1108:ARG:HE	3:N:1199:GLY:HA3	1.50	0.77
3:N:627:GLY:O	3:N:747:VAL:HG12	1.84	0.77
2:C:673:LEU:HB3	2:C:868:ASP:CG	2.05	0.77
1:F:58:ILE:HA	1:F:139:ASN:O	1.84	0.77
3:N:461:ILE:HG23	3:N:464:LEU:HD12	1.67	0.77
3:I:785:ILE:HD12	3:I:785:ILE:H	1.50	0.77
2:M:668:LEU:H	2:M:668:LEU:HD12	1.49	0.77
3:D:1449:GLU:HA	3:D:1452:ILE:HD13	1.66	0.77
2:M:136:ILE:HD13	2:M:336:VAL:HG21	1.67	0.77
3:D:637:LEU:HD21	3:D:642:CYS:HA	1.66	0.77
3:I:873:LEU:HD12	3:I:873:LEU:H	1.48	0.77
2:H:838:LYS:HE2	2:H:999:HIS:HB2	1.65	0.77
2:M:581:THR:OG1	2:M:583:LEU:HD13	1.85	0.77
3:N:112:ILE:HD12	3:N:115:LEU:HD13	1.67	0.77
3:I:676:MET:HB3	3:I:677:LEU:HD22	1.67	0.77
2:C:611:ILE:HG13	2:C:625:LEU:HD11	1.64	0.77
3:I:860:LEU:HD12	3:I:861:GLN:HE22	1.50	0.76
2:H:328:LEU:HB2	2:H:433:THR:HG21	1.65	0.76
3:N:729:HIS:CD2	3:N:731:LEU:HB2	2.19	0.76
1:F:141:GLU:HG3	1:F:161:ARG:HH12	1.49	0.76
3:D:1365:ASP:HA	3:D:1368:ILE:HD13	1.66	0.76
1:B:115:LEU:O	1:B:115:LEU:HD12	1.85	0.76
2:H:374:ASN:O	2:H:377:PRO:HD2	1.86	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:395:LYS:HG2	2:H:397:GLU:HG2	1.67	0.76
3:D:1498:ALA:HB3	4:E:84:ARG:HH21	1.49	0.76
2:M:569:VAL:CG1	2:M:996:LYS:HB3	2.16	0.76
4:J:26:ARG:O	4:J:30:LEU:HD13	1.86	0.76
2:H:1092:LEU:O	2:H:1095:LEU:HD22	1.84	0.76
2:C:258:TYR:HE2	2:C:290:LEU:HG	1.50	0.76
3:I:729:HIS:O	3:I:732:VAL:HG23	1.85	0.76
1:A:206:THR:HG22	1:A:209:GLU:HG2	1.66	0.76
3:I:1206:GLY:O	3:I:1215:VAL:HG23	1.84	0.76
2:H:107:LEU:HD13	2:H:109:LYS:H	1.50	0.76
2:C:361:MET:HB2	3:I:1314:LYS:HD2	1.67	0.76
2:C:437:ARG:C	2:C:438:ILE:HD12	2.05	0.76
3:I:1084:THR:HB	5:Y:43:ARG:HD3	1.68	0.76
3:N:704:ARG:NH1	3:N:705:ALA:H	1.84	0.76
1:A:42:ARG:HH12	1:B:34:VAL:HB	1.49	0.76
3:D:141:ILE:HD12	3:D:448:GLU:HG3	1.66	0.76
3:N:1286:THR:O	3:N:1287:GLU:HB3	1.85	0.76
3:D:168:THR:OG1	3:D:394:LEU:HD22	1.86	0.76
2:H:979:THR:HG23	2:H:981:GLU:H	1.50	0.76
3:N:137:PRO:HG2	3:N:453:ASP:H	1.50	0.76
2:C:73:LEU:HB2	2:C:93:PRO:O	1.85	0.76
2:C:805:ARG:HG2	2:C:806:LEU:N	2.00	0.76
2:M:367:LEU:HD22	2:M:371:LYS:HE2	1.67	0.76
2:M:892:LEU:HD13	2:M:989:VAL:HG23	1.68	0.76
1:A:94:LEU:HD11	1:A:119:ASP:HB3	1.67	0.76
2:H:328:LEU:CD1	2:H:433:THR:HB	2.07	0.76
2:M:1099:VAL:HG22	3:N:10:ILE:HD11	1.68	0.76
2:H:212:GLY:HA3	2:H:218:VAL:HB	1.66	0.76
4:O:48:MET:HB2	4:O:54:LEU:HB2	1.68	0.76
3:I:12:LEU:H	3:I:12:LEU:HD12	1.49	0.76
1:A:140:MET:HE2	1:A:142:VAL:HG13	1.65	0.76
3:N:483:HIS:HB2	3:N:484:PRO:HD3	1.65	0.76
1:A:56:VAL:HA	1:A:141:GLU:O	1.85	0.76
3:N:834:THR:OG1	3:N:838:ARG:HB2	1.85	0.76
2:M:756:VAL:CG2	2:M:790:LEU:HB3	2.14	0.76
3:I:764:LEU:HD12	3:I:765:SER:H	1.51	0.76
2:H:498:GLN:OE1	3:I:1068:LEU:HD13	1.85	0.76
3:N:1127:GLU:HB2	3:N:1133:ARG:HE	1.50	0.76
3:I:214:GLU:HB2	3:I:384:VAL:HG12	1.68	0.76
2:H:342:ASP:O	2:H:345:ARG:HG2	1.86	0.76
2:M:107:LEU:CD1	2:M:109:LYS:H	1.98	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:520:LEU:HD21	3:N:524:LEU:HD23	1.68	0.76
1:G:219:ARG:HB3	1:G:219:ARG:HH11	1.48	0.76
2:C:473:ARG:HA	2:C:531:PHE:CD1	2.21	0.75
3:N:996:TRP:CD2	3:N:1056:PRO:HG2	2.21	0.75
3:N:1487:VAL:HG11	3:N:1492:LEU:HD23	1.69	0.75
2:M:565:GLN:HA	2:M:995:MET:CE	2.14	0.75
3:I:111:LYS:HG3	3:I:1452:ILE:HD11	1.68	0.75
3:N:928:ALA:HA	3:N:931:LEU:HD12	1.68	0.75
2:M:221:LEU:HD12	2:M:222:MET:N	2.01	0.75
1:K:57:TYR:CD2	1:K:161:ARG:HD2	2.21	0.75
2:H:1014:SER:CB	2:H:1019:GLN:H	2.00	0.75
2:C:734:LEU:HD12	2:C:737:LEU:HB3	1.67	0.75
3:D:1336:LEU:HD22	3:D:1421:LEU:HD23	1.66	0.75
3:I:521:PRO:HB2	3:I:524:LEU:HD13	1.68	0.75
2:M:100:LEU:HD13	2:M:101:ILE:N	2.01	0.75
2:H:1039:ALA:HB3	3:I:713:ILE:HD11	1.67	0.75
2:C:111:ASP:O	2:C:113:VAL:HG23	1.84	0.75
3:D:1166:LEU:HD23	3:D:1166:LEU:H	1.52	0.75
3:N:1481:VAL:HG11	4:O:18:ARG:HA	1.67	0.75
2:C:997:LEU:N	2:C:997:LEU:HD22	2.02	0.75
3:D:403:PHE:HB2	3:D:423:ASP:OD1	1.86	0.75
3:I:677:LEU:HD12	3:I:680:GLN:HG2	1.68	0.75
3:N:470:LEU:HD12	3:N:470:LEU:H	1.51	0.75
3:N:864:VAL:HG12	3:N:865:THR:H	1.52	0.75
2:H:722:ILE:HD11	2:H:741:GLY:HA3	1.69	0.75
1:F:57:TYR:O	1:F:140:MET:HA	1.86	0.75
2:H:679:PHE:HD2	2:H:680:ASP:N	1.85	0.75
1:G:85:LEU:HD12	1:G:86:VAL:H	1.51	0.75
2:H:597:ALA:HB2	2:H:655:LEU:HD21	1.69	0.75
1:G:158:ILE:O	1:G:166:PRO:HG3	1.86	0.75
3:N:908:LYS:HG3	3:N:909:ASN:H	1.51	0.75
1:A:161:ARG:HB2	1:A:161:ARG:NH1	2.01	0.75
3:N:1147:ARG:HB3	3:N:1188:VAL:HG21	1.69	0.75
3:D:207:PHE:CZ	2:H:283:ILE:HB	2.22	0.75
3:D:97:THR:HG21	3:D:571:LYS:HD2	1.68	0.75
2:C:181:VAL:HA	2:C:220:GLY:O	1.87	0.75
1:B:227:ASN:H	1:B:227:ASN:HD22	1.34	0.75
3:I:100:ALA:HB3	3:I:575:GLN:HE22	1.51	0.75
2:C:267:TYR:HB2	2:C:272:ALA:CB	2.17	0.75
1:F:42:ARG:NH1	1:G:34:VAL:HB	2.02	0.75
3:D:1213:ARG:NH2	4:E:10:PHE:HB3	2.02	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:141:ILE:HG22	3:N:162:ARG:HH22	1.52	0.75
2:M:73:LEU:HD22	2:M:74:GLY:N	2.02	0.75
2:H:654:LEU:HD23	2:H:654:LEU:H	1.50	0.75
3:I:1493:LYS:HA	3:I:1493:LYS:HE2	1.68	0.75
1:B:215:VAL:HA	1:B:218:LEU:HD23	1.67	0.75
2:H:437:ARG:HG3	2:H:467:ILE:HG22	1.68	0.75
3:I:475:LYS:HA	3:I:478:LEU:HD12	1.67	0.75
3:I:1146:GLY:CA	3:I:1207:TYR:HB2	2.16	0.75
3:I:361:VAL:HG23	3:I:383:GLY:O	1.87	0.75
2:H:600:ASP:OD1	2:H:650:ARG:HA	1.87	0.75
2:M:513:VAL:HG23	2:M:524:VAL:O	1.87	0.75
2:M:705:ILE:HG22	2:M:706:GLU:H	1.52	0.75
2:C:603:VAL:HA	2:C:613:VAL:HG12	1.68	0.75
3:N:526:PRO:HD2	3:N:538:SER:OG	1.85	0.75
3:I:728:LEU:HD12	3:I:729:HIS:H	1.51	0.75
2:M:139:GLN:HG3	2:M:334:ARG:HB2	1.69	0.75
3:D:116:LEU:CD2	3:D:468:LEU:HD12	2.16	0.75
3:D:828:LYS:HG2	3:D:863:VAL:HG22	1.67	0.74
3:D:1095:THR:O	3:D:1099:VAL:HG23	1.87	0.74
3:D:135:LEU:HD23	3:D:136:ASP:H	1.52	0.74
3:D:141:ILE:HG23	3:D:448:GLU:OE2	1.86	0.74
3:N:1408:ILE:HD12	3:N:1408:ILE:H	1.51	0.74
5:Z:82:VAL:HG22	5:Z:133:ARG:HH21	1.51	0.74
1:G:160:ASP:HB3	1:G:161:ARG:HH11	1.51	0.74
3:I:631:ILE:HD11	3:I:743:ASP:HB2	1.68	0.74
1:K:112:ARG:NE	1:K:125:PRO:HB3	2.00	0.74
3:I:644:LEU:H	3:I:721:VAL:CG2	2.00	0.74
3:D:1122:LEU:HD13	3:D:1184:GLN:O	1.87	0.74
3:D:644:LEU:HD12	3:D:645:PRO:HD2	1.69	0.74
3:N:642:CYS:SG	3:N:716:PHE:HB2	2.27	0.74
5:X:43:ARG:O	5:X:44:GLU:OE1	2.05	0.74
3:N:138:LYS:H	3:N:138:LYS:HD3	1.51	0.74
1:K:167:VAL:HG12	1:K:168:ASP:H	1.51	0.74
2:M:368:THR:HB	2:M:369:PRO:CD	2.15	0.74
2:C:162:ILE:HD11	2:C:306:THR:HG21	1.70	0.74
3:N:982:PHE:HE1	5:Z:117:MET:HB3	1.53	0.74
1:K:59:GLU:HB2	1:K:139:ASN:ND2	2.02	0.74
3:N:1264:GLU:OE2	3:N:1423:GLY:HA3	1.86	0.74
1:K:72:LYS:NZ	2:M:644:VAL:HG12	2.03	0.74
3:N:638:LYS:HB2	3:N:641:GLN:OE1	1.88	0.74
3:I:172:PRO:HG2	3:I:175:VAL:HB	1.68	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:710:ILE:HB	2:C:790:LEU:HD13	1.67	0.74
2:C:129:ILE:HD12	2:C:129:ILE:H	1.51	0.74
2:M:1052:MET:HE3	3:N:748:HIS:HB3	1.69	0.74
5:Y:144:LYS:HD3	5:Y:147:ARG:NH1	2.01	0.74
3:I:907:GLU:OE2	3:I:908:LYS:HB3	1.87	0.74
2:M:631:SER:HB3	2:M:635:THR:H	1.52	0.74
3:I:582:LEU:HA	3:I:603:LEU:HD12	1.70	0.74
2:C:676:ILE:HG13	2:C:873:PRO:HG3	1.69	0.74
3:D:1481:VAL:HG13	4:E:18:ARG:HH21	1.52	0.74
2:H:829:GLN:HG3	2:H:831:ARG:HH12	1.53	0.74
3:N:150:ARG:HH12	3:N:468:LEU:HD11	1.51	0.74
1:F:197:LEU:HD23	1:F:197:LEU:N	2.02	0.74
2:H:442:GLU:HG2	2:H:454:SER:HB2	1.70	0.74
2:M:31:GLN:NE2	2:M:34:VAL:HG22	2.03	0.74
3:N:129:PHE:C	3:N:568:ARG:HH21	1.89	0.74
3:D:857:ILE:HG22	3:D:858:VAL:HG13	1.70	0.74
3:D:1368:ILE:H	3:D:1368:ILE:HD12	1.49	0.74
2:C:304:LEU:HB3	2:C:305:PRO:HD3	1.69	0.74
2:M:100:LEU:O	2:M:107:LEU:HD12	1.87	0.74
3:N:845:ASN:HD21	3:N:848:GLU:H	1.33	0.74
2:C:239:PHE:CE2	2:C:252:LYS:HA	2.22	0.74
3:D:805:GLU:HA	3:D:832:ARG:HD2	1.70	0.74
3:D:1364:HIS:CE1	3:D:1366:LYS:HG3	2.23	0.74
1:B:58:ILE:CG1	1:B:140:MET:HB3	2.17	0.74
3:N:716:PHE:O	3:N:718:PRO:HD3	1.87	0.74
5:Z:29:ILE:HD12	5:Z:58:ASN:ND2	2.02	0.74
1:K:158:ILE:O	1:K:166:PRO:HG3	1.86	0.74
3:N:1397:LYS:HZ3	3:N:1397:LYS:HB2	1.53	0.74
3:D:1003:VAL:O	3:D:1007:VAL:HG23	1.88	0.74
1:F:76:VAL:O	1:F:79:ILE:HG13	1.86	0.74
2:M:15:LEU:HD22	2:M:15:LEU:H	1.51	0.74
3:D:466:LYS:HG2	3:D:510:GLU:HG3	1.70	0.74
3:D:1155:VAL:HG11	3:D:1183:ILE:HD12	1.69	0.74
4:J:54:LEU:HG	4:J:58:PRO:CB	2.18	0.74
1:A:75:VAL:O	1:A:79:ILE:HG23	1.87	0.74
4:O:68:LEU:HA	4:O:73:LEU:HD21	1.69	0.74
2:C:91:GLN:HB3	2:C:117:HIS:HB2	1.70	0.74
5:X:40:GLY:O	5:X:41:ASP:O	2.04	0.74
3:N:828:LYS:HG2	3:N:863:VAL:HG23	1.70	0.74
3:D:844:ALA:HB1	3:D:867:ARG:NH1	2.03	0.74
3:N:729:HIS:ND1	3:N:730:PRO:HD2	2.02	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:44:LEU:O	1:K:174:VAL:HG21	1.88	0.74
1:B:54:THR:HG21	1:B:143:ARG:NH2	2.01	0.74
1:G:100:LEU:CB	1:G:115:LEU:HD11	2.17	0.74
1:A:31:GLY:O	1:A:34:VAL:HG12	1.88	0.74
3:N:519:VAL:HA	3:N:544:TYR:OH	1.88	0.74
3:I:860:LEU:HA	3:I:877:PRO:HB2	1.68	0.73
3:I:882:PHE:HA	3:I:885:ILE:HD12	1.68	0.73
3:D:1029:ARG:NH1	3:D:1029:ARG:HB3	1.97	0.73
2:H:678:PRO:HA	2:H:683:ASN:HD21	1.53	0.73
2:M:334:ARG:HG2	2:M:338:GLU:CD	2.09	0.73
3:N:1272:ALA:CA	3:N:1326:THR:HB	2.18	0.73
3:I:187:LYS:HE2	3:I:199:LEU:HG	1.68	0.73
2:H:705:ILE:N	2:H:705:ILE:HD12	2.03	0.73
3:D:160:GLU:HG2	3:D:161:LEU:HD22	1.70	0.73
3:D:1229:ILE:O	3:D:1232:PRO:HD2	1.87	0.73
2:H:572:ILE:HG13	2:H:701:THR:O	1.88	0.73
3:I:1485:GLN:HE21	4:J:79:LEU:N	1.86	0.73
3:I:908:LYS:H	3:I:1027:GLY:HA3	1.52	0.73
1:K:151:VAL:HG13	1:K:155:LYS:HD2	1.69	0.73
1:K:87:VAL:HG12	1:K:122:ILE:CG1	2.17	0.73
2:C:350:ARG:HG2	2:C:353:ARG:HH21	1.53	0.73
1:L:76:VAL:HB	3:N:872:ARG:HH22	1.53	0.73
2:M:741:GLY:O	2:M:756:VAL:HA	1.88	0.73
4:J:41:GLU:OE2	4:J:42:PRO:HD3	1.88	0.73
2:M:181:VAL:HA	2:M:220:GLY:O	1.88	0.73
2:H:154:ARG:HH22	2:H:178:PRO:CG	1.99	0.73
2:C:73:LEU:HD23	2:C:94:LEU:HA	1.70	0.73
3:I:105:VAL:HG12	3:I:106:LYS:CE	2.17	0.73
3:N:51:GLY:HA3	3:N:86:ARG:HG3	1.67	0.73
2:H:451:LEU:HB3	2:H:452:ILE:HD12	1.69	0.73
5:Y:6:LYS:HB3	5:Y:75:LEU:HD12	1.69	0.73
3:N:1381:VAL:HG23	3:N:1391:GLU:O	1.88	0.73
3:N:860:LEU:HA	3:N:877:PRO:HB2	1.70	0.73
2:H:853:LEU:HD12	2:H:854:PRO:HD2	1.68	0.73
4:J:54:LEU:HG	4:J:58:PRO:HB3	1.69	0.73
2:H:640:ARG:HB2	2:H:642:ARG:NH2	2.03	0.73
2:C:750:LYS:NZ	2:C:751:PRO:HD3	2.01	0.73
2:C:50:GLU:OE2	2:C:345:ARG:HD2	1.88	0.73
3:I:805:GLU:CD	3:I:816:HIS:HE2	1.91	0.73
2:C:198:ARG:NH1	2:C:203:ASP:HA	2.03	0.73
2:M:572:ILE:HG12	2:M:573:ARG:HG3	1.70	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:138:LYS:H	3:D:138:LYS:HE2	1.53	0.73
3:N:1236:LEU:HB2	3:N:1256:LEU:HB2	1.70	0.73
2:M:405:ARG:HD3	2:M:543:ASN:ND2	2.04	0.73
2:M:805:ARG:HG2	2:M:806:LEU:H	1.52	0.73
2:C:750:LYS:HA	2:C:750:LYS:HZ3	1.52	0.73
5:X:37:LEU:HD21	5:X:48:TYR:HE2	1.53	0.73
3:N:1397:LYS:NZ	3:N:1397:LYS:HB2	2.02	0.73
3:I:433:GLY:HA3	3:I:449:SER:H	1.53	0.73
3:N:525:ARG:CB	3:N:540:LEU:HD22	2.17	0.73
1:K:87:VAL:HG12	1:K:122:ILE:HG12	1.70	0.73
3:I:122:GLU:O	3:I:126:VAL:HG23	1.89	0.73
2:M:942:GLU:O	2:M:945:ARG:HB3	1.89	0.73
1:F:220:GLU:O	1:F:223:THR:HG22	1.89	0.73
3:D:1282:ARG:NH2	3:D:1315:ASP:HB3	2.04	0.73
5:Z:19:LEU:HA	5:Z:65:LEU:HD13	1.70	0.73
2:M:683:ASN:HA	2:M:687:ALA:HB3	1.70	0.73
3:D:554:LEU:HD11	3:D:571:LYS:HZ2	1.52	0.73
3:D:365:ASP:H	3:D:379:ALA:HB3	1.54	0.73
2:C:803:THR:HG22	2:C:825:VAL:HA	1.70	0.73
2:H:334:ARG:HH11	2:H:418:LEU:HD21	1.54	0.73
3:I:119:SER:HB2	3:I:123:LEU:H	1.52	0.73
2:M:1012:PRO:HD3	2:M:1026:GLN:OE1	1.88	0.73
2:M:749:VAL:HG11	2:M:755:LEU:HD21	1.71	0.73
2:M:790:LEU:HD23	2:M:790:LEU:O	1.89	0.73
1:A:45:LEU:CD2	1:A:174:VAL:HB	2.19	0.73
1:K:231:ALA:HB2	1:L:14:ARG:HD3	1.70	0.73
4:O:39:VAL:HG22	4:O:67:GLU:HG2	1.71	0.73
2:M:66:LEU:HD11	2:M:98:LEU:HD23	1.70	0.73
2:H:52:PHE:CD2	2:H:68:PHE:HB2	2.24	0.73
2:C:471:TYR:H	2:C:483:VAL:HG13	1.53	0.73
2:H:853:LEU:HD11	2:H:857:ASP:OD2	1.89	0.73
2:C:750:LYS:HA	2:C:750:LYS:NZ	2.03	0.73
2:H:300:ASP:HB2	2:H:302:VAL:HG13	1.70	0.73
2:M:1016:ILE:HD13	2:M:1016:ILE:H	1.53	0.73
3:N:828:LYS:HD3	3:N:862:ASP:HA	1.69	0.72
3:N:939:PHE:O	3:N:943:THR:HG23	1.89	0.72
1:A:102:LYS:HA	1:A:138:LEU:CG	2.19	0.72
3:I:150:ARG:HH12	3:I:468:LEU:HD11	1.53	0.72
2:M:134:ARG:HH12	2:M:393:GLN:N	1.86	0.72
5:Y:16:MET:CE	5:Y:69:LEU:HD13	2.19	0.72
2:M:542:VAL:HG12	2:M:546:LEU:HD21	1.71	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:627:GLY:O	3:D:747:VAL:HG12	1.89	0.72
2:C:86:LYS:HE2	2:C:813:VAL:HB	1.70	0.72
3:D:1183:ILE:HD13	3:D:1183:ILE:H	1.54	0.72
3:N:1083:ASP:HB3	3:N:1237:THR:HG21	1.70	0.72
3:N:1201:CYS:SG	3:N:1204:CYS:HB2	2.28	0.72
2:M:658:GLY:H	2:M:661:SER:HB3	1.55	0.72
2:H:673:LEU:O	2:H:868:ASP:HB2	1.89	0.72
3:N:1065:LEU:HD11	3:N:1069:GLU:CB	2.18	0.72
3:D:170:PRO:O	3:D:171:LEU:HD23	1.89	0.72
2:H:952:LEU:HD12	2:H:969:GLN:HE22	1.53	0.72
3:I:833:GLU:HG2	1:L:161:ARG:HH22	1.53	0.72
2:H:367:LEU:HD22	2:H:371:LYS:HB2	1.70	0.72
1:L:91:ASN:HD22	1:L:91:ASN:H	1.37	0.72
2:C:1016:ILE:HG13	2:C:1017:THR:H	1.52	0.72
3:I:684:LYS:HB2	3:I:687:VAL:HG23	1.70	0.72
3:N:1208:ASP:O	3:N:1215:VAL:HG22	1.88	0.72
2:H:241:LEU:HD23	2:H:242:LEU:N	2.04	0.72
1:K:209:GLU:HA	1:K:212:ASN:HD21	1.55	0.72
4:E:54:LEU:HG	4:E:58:PRO:CG	2.19	0.72
1:L:58:ILE:HG23	1:L:139:ASN:O	1.88	0.72
1:K:58:ILE:CD1	1:K:140:MET:HB3	2.20	0.72
1:A:44:LEU:HD11	1:A:199:ILE:HD13	1.70	0.72
3:I:543:LEU:HD21	3:I:600:LEU:HB2	1.71	0.72
1:A:161:ARG:HB2	1:A:161:ARG:HH11	1.54	0.72
3:N:1379:VAL:HG22	3:N:1398:TRP:NE1	2.03	0.72
1:B:106:PRO:HG2	1:B:134:GLU:OE1	1.89	0.72
1:K:211:LEU:O	1:K:215:VAL:HG23	1.89	0.72
2:M:331:ARG:NH2	2:M:427:VAL:HG21	2.03	0.72
3:D:171:LEU:HD12	3:D:390:PRO:O	1.88	0.72
2:M:871:LEU:HD13	2:M:872:ASN:N	2.05	0.72
3:N:1368:ILE:HD12	3:N:1368:ILE:H	1.55	0.72
2:H:632:ASN:HB2	2:H:633:GLN:HE21	1.54	0.72
1:F:213:GLN:O	1:F:217:ILE:HG12	1.89	0.72
3:D:187:LYS:HB2	3:D:200:ASP:OD2	1.90	0.72
2:M:749:VAL:HG11	2:M:755:LEU:CD2	2.20	0.72
3:D:525:ARG:HB2	3:D:540:LEU:HD23	1.70	0.72
3:I:1095:THR:O	3:I:1099:VAL:HG23	1.89	0.72
1:B:52:ALA:O	1:B:144:VAL:HG13	1.89	0.72
1:B:80:LEU:HG	3:D:844:ALA:HB2	1.70	0.72
3:N:767:HIS:HA	3:N:924:MET:SD	2.30	0.72
2:C:208:ALA:HB2	2:C:222:MET:HG3	1.71	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:366:LYS:HE2	3:D:369:ALA:HB2	1.69	0.72
3:N:976:GLN:HA	3:N:979:GLU:OE1	1.90	0.72
4:E:41:GLU:HG2	4:E:42:PRO:HD3	1.71	0.72
5:Z:44:GLU:O	5:Z:46:ALA:N	2.22	0.72
3:I:1000:THR:O	3:I:1003:VAL:HG13	1.90	0.72
2:H:911:GLU:HB3	2:H:912:PRO:HD3	1.71	0.72
2:H:12:VAL:HG13	2:H:13:ILE:N	2.02	0.72
2:M:267:TYR:HB2	2:M:272:ALA:HB1	1.72	0.72
1:F:76:VAL:HA	1:F:79:ILE:HG12	1.72	0.72
2:C:99:GLN:HB3	2:C:110:GLU:HB3	1.72	0.72
3:I:957:PRO:HG2	3:I:1007:VAL:HG22	1.70	0.72
4:O:70:THR:HG22	4:O:72:ARG:HG3	1.71	0.72
2:C:876:VAL:N	2:C:877:PRO:HD2	2.04	0.72
3:I:820:GLU:HG2	3:I:825:ALA:O	1.90	0.72
2:H:577:PRO:HD2	2:H:580:MET:CE	2.20	0.72
2:H:331:ARG:NH1	2:H:427:VAL:HG11	2.05	0.72
1:A:212:ASN:HD22	1:A:212:ASN:N	1.85	0.72
1:A:177:VAL:HG22	1:A:199:ILE:HG23	1.70	0.72
2:M:134:ARG:HH22	2:M:393:GLN:HA	1.54	0.72
2:C:448:ASN:HA	2:C:451:LEU:HD12	1.72	0.72
1:A:24:VAL:HA	1:A:196:THR:HG22	1.71	0.72
1:F:167:VAL:HG12	1:F:168:ASP:H	1.53	0.72
3:D:1029:ARG:CB	3:D:1029:ARG:HH11	1.97	0.72
3:D:525:ARG:HB2	3:D:540:LEU:CD2	2.20	0.72
1:B:56:VAL:HG23	1:B:167:VAL:HG21	1.71	0.72
2:C:975:TYR:HA	2:C:982:PRO:HA	1.72	0.72
2:H:383:ARG:HB2	2:H:383:ARG:NH1	2.04	0.72
3:N:465:LEU:HD22	3:N:509:PRO:HB2	1.72	0.72
2:C:146:VAL:HG11	2:C:281:LEU:CD2	2.19	0.72
3:N:809:PRO:O	3:N:812:ALA:HB3	1.90	0.72
3:D:1271:LYS:HD2	3:D:1334:GLN:HE22	1.55	0.72
3:D:846:PRO:HB3	3:D:880:ILE:HD11	1.70	0.72
2:H:88:LEU:HD13	2:H:89:THR:H	1.55	0.72
2:M:300:ASP:HB2	2:M:302:VAL:HG13	1.72	0.72
3:N:613:ARG:O	3:N:613:ARG:HD3	1.90	0.72
2:H:760:SER:HG	2:H:786:LYS:N	1.87	0.72
3:N:365:ASP:H	3:N:379:ALA:HB3	1.54	0.72
3:I:882:PHE:O	3:I:886:VAL:HG23	1.89	0.71
3:D:910:SER:HG	3:D:911:LEU:HD12	1.55	0.71
2:M:946:ARG:HB3	2:M:946:ARG:NH1	2.04	0.71
3:N:459:GLU:O	3:N:462:GLN:HB3	1.90	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:267:TYR:HB2	2:H:272:ALA:HB1	1.72	0.71
3:N:930:LEU:CD1	3:N:934:LEU:HD21	2.19	0.71
2:H:749:VAL:C	2:H:750:LYS:HD2	2.10	0.71
1:K:63:HIS:HB3	2:M:799:ILE:HG21	1.72	0.71
3:N:351:MET:HG2	3:N:368:VAL:HG12	1.71	0.71
4:O:40:LEU:HD13	4:O:72:ARG:HH22	1.55	0.71
2:M:1051:GLU:OE1	3:N:750:PRO:HA	1.90	0.71
1:A:167:VAL:HG12	1:A:168:ASP:H	1.54	0.71
3:D:571:LYS:O	3:D:574:LEU:HB3	1.89	0.71
3:I:804:LEU:HD21	3:I:831:GLY:N	2.04	0.71
3:D:1160:LEU:HD21	3:D:1164:ARG:HD2	1.72	0.71
2:M:30:LEU:HA	2:M:44:ILE:HD13	1.72	0.71
2:M:224:GLU:O	2:M:228:ALA:HB3	1.90	0.71
3:D:209:ARG:HB3	3:D:389:GLU:HB2	1.71	0.71
2:M:267:TYR:HB2	2:M:272:ALA:CB	2.20	0.71
3:D:1205:TYR:CE2	3:D:1215:VAL:HG21	2.24	0.71
3:D:169:TYR:HB2	3:D:393:ILE:O	1.89	0.71
3:I:804:LEU:CD2	3:I:831:GLY:HA2	2.18	0.71
3:I:868:TYR:CD1	3:I:869:MET:HG2	2.25	0.71
3:D:135:LEU:HD23	3:D:136:ASP:N	2.05	0.71
2:M:195:LEU:O	2:M:199:VAL:HG23	1.89	0.71
3:D:44:LEU:H	3:D:44:LEU:HD12	1.55	0.71
1:L:143:ARG:NH2	1:L:158:ILE:HG21	2.05	0.71
1:B:108:GLU:HA	1:B:131:THR:HG22	1.71	0.71
2:C:630:ARG:NH2	2:C:707:ARG:H	1.87	0.71
3:I:1156:LEU:HD13	3:I:1176:LYS:HE3	1.72	0.71
3:I:26:VAL:HG22	3:I:49:ILE:HD13	1.73	0.71
2:C:1081:VAL:HG13	2:C:1085:PHE:HD1	1.53	0.71
2:H:976:ASP:OD2	2:H:978:ARG:HB2	1.90	0.71
3:D:1301:LYS:HG3	3:D:1303:TYR:CE1	2.25	0.71
2:C:794:PRO:HB3	2:C:1027:PHE:CE1	2.26	0.71
2:M:107:LEU:HD13	2:M:108:ILE:N	2.06	0.71
3:D:864:VAL:HG12	3:D:865:THR:H	1.52	0.71
2:M:480:THR:HG22	2:M:482:GLU:N	2.00	0.71
3:D:87:ARG:HB2	3:D:524:LEU:CD1	2.21	0.71
3:D:1379:VAL:HG22	3:D:1398:TRP:CE2	2.25	0.71
3:I:805:GLU:HA	3:I:832:ARG:HG2	1.72	0.71
3:I:484:PRO:HB3	3:I:488:ARG:NE	2.03	0.71
3:D:1106:VAL:HG13	3:D:1219:GLU:O	1.91	0.71
3:N:1262:LEU:HD23	3:N:1352:ILE:HD13	1.71	0.71
3:D:1333:HIS:HA	3:D:1421:LEU:HD21	1.72	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:292:ARG:HG2	2:H:299:LYS:HG2	1.71	0.71
2:H:940:GLU:HG2	2:H:973:VAL:HG21	1.72	0.71
2:M:374:ASN:N	2:M:374:ASN:HD22	1.89	0.71
3:D:849:ALA:O	3:D:853:VAL:HG23	1.90	0.71
2:H:176:VAL:O	2:H:178:PRO:HD3	1.90	0.71
2:H:73:LEU:HD12	2:H:74:GLY:N	2.06	0.71
3:I:1209:LEU:HD12	3:I:1210:SER:H	1.55	0.71
4:O:37:ASN:HD22	4:O:37:ASN:N	1.87	0.71
3:I:581:LEU:HD23	3:I:581:LEU:H	1.53	0.71
3:D:111:LYS:HG2	3:D:1452:ILE:HD11	1.72	0.71
2:H:199:VAL:HG21	2:H:238:LEU:HD12	1.73	0.71
3:N:165:LYS:NZ	3:N:165:LYS:HB3	2.05	0.71
1:F:101:LEU:H	1:F:140:MET:HE1	1.55	0.71
2:H:703:ILE:H	2:H:703:ILE:HD12	1.55	0.71
2:H:569:VAL:HG11	2:H:996:LYS:HB2	1.73	0.71
3:D:162:ARG:NE	3:D:452:ILE:HG12	2.06	0.71
3:D:1170:ASP:O	3:D:1174:LEU:HG	1.91	0.71
2:M:611:ILE:HG13	2:M:625:LEU:HD11	1.73	0.71
3:I:996:TRP:CE2	3:I:1056:PRO:HG2	2.26	0.71
2:H:98:LEU:H	2:H:98:LEU:HD22	1.55	0.71
2:C:475:VAL:O	2:C:478:VAL:HG23	1.88	0.71
2:H:859:PRO:O	2:H:867:VAL:HG13	1.91	0.71
2:H:139:GLN:HE22	2:H:415:PRO:CD	2.04	0.71
5:Z:115:THR:HB	5:Z:116:PRO:HD3	1.73	0.71
2:H:224:GLU:O	2:H:228:ALA:HB3	1.91	0.71
3:D:365:ASP:H	3:D:379:ALA:HB2	1.56	0.71
3:D:1301:LYS:HA	3:D:1301:LYS:HZ2	1.52	0.71
3:N:1405:GLU:OE2	3:N:1406:ARG:HB2	1.91	0.71
3:D:1263:PHE:CE2	3:D:1371:VAL:HG11	2.26	0.71
2:C:584:GLU:H	2:C:584:GLU:CD	1.93	0.71
1:K:62:LEU:HB3	2:M:746:GLY:HA3	1.73	0.71
1:L:117:VAL:HG12	1:L:118:ALA:H	1.56	0.71
2:C:290:LEU:CB	2:C:302:VAL:HG11	2.18	0.71
2:H:802:ARG:O	2:H:803:THR:HG23	1.90	0.71
2:M:89:THR:HA	2:M:129:ILE:O	1.90	0.71
2:H:863:ASP:O	2:H:865:THR:HG22	1.91	0.71
2:M:447:ALA:HA	3:N:1085:ALA:HB1	1.72	0.71
3:I:574:LEU:O	3:I:578:VAL:HG23	1.91	0.71
2:H:1033:GLY:O	2:H:1037:VAL:HG23	1.90	0.71
3:D:1103:HIS:NE2	3:D:1463:LYS:HD2	2.06	0.71
2:C:1030:GLN:HA	3:D:622:ARG:HH11	1.53	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:474:GLU:O	3:I:478:LEU:HG	1.90	0.71
2:C:713:ARG:HE	2:C:758:ARG:NH2	1.88	0.71
2:M:858:MET:HE2	2:M:859:PRO:HD2	1.73	0.71
2:C:668:LEU:HD12	2:C:668:LEU:H	1.55	0.71
3:N:1231:GLU:HB3	3:N:1232:PRO:HD3	1.73	0.71
4:E:48:MET:HB2	4:E:54:LEU:HB2	1.72	0.70
3:N:347:VAL:CG1	3:N:351:MET:HB3	2.20	0.70
3:I:150:ARG:NH2	3:I:468:LEU:HD11	2.04	0.70
2:H:90:TYR:HD1	2:H:120:LEU:HD23	1.55	0.70
3:I:1493:LYS:O	3:I:1497:GLU:HG2	1.90	0.70
3:D:18:ILE:HG23	3:D:518:PRO:HG3	1.73	0.70
5:X:36:ALA:HA	5:X:39:GLU:OE1	1.90	0.70
3:I:996:TRP:CD2	3:I:1056:PRO:HG2	2.26	0.70
3:N:493:ARG:NE	3:N:1390:LEU:HD23	2.06	0.70
2:H:889:HIS:HE1	3:I:951:ILE:H	1.39	0.70
3:I:636:GLN:HE21	3:I:637:LEU:H	1.37	0.70
2:M:212:GLY:HA3	2:M:218:VAL:HB	1.72	0.70
3:N:141:ILE:HG22	3:N:162:ARG:NH2	2.05	0.70
3:N:996:TRP:HA	3:N:999:THR:CG2	2.22	0.70
3:I:908:LYS:HB2	3:I:1027:GLY:HA3	1.73	0.70
2:H:1109:VAL:HG11	3:I:5:VAL:HG22	1.72	0.70
3:N:1095:THR:O	3:N:1099:VAL:HG23	1.92	0.70
3:I:996:TRP:HA	3:I:999:THR:HG22	1.71	0.70
1:F:177:VAL:HG13	1:F:199:ILE:CD1	2.21	0.70
2:H:803:THR:CG2	2:H:825:VAL:HA	2.19	0.70
3:N:1000:THR:O	3:N:1003:VAL:HG22	1.91	0.70
1:F:109:VAL:HB	1:F:130:ALA:N	2.07	0.70
2:M:18:LEU:H	2:M:18:LEU:CD1	2.04	0.70
3:N:358:GLY:N	3:N:385:VAL:HB	2.06	0.70
1:F:99:LEU:HD22	1:F:99:LEU:H	1.56	0.70
2:C:263:ASP:HB2	2:C:264:PRO:HD3	1.73	0.70
3:N:1272:ALA:CB	3:N:1326:THR:HB	2.21	0.70
2:C:674:VAL:HG12	2:C:990:GLY:O	1.91	0.70
2:H:575:GLN:NE2	2:H:671:ASN:H	1.87	0.70
2:H:732:ALA:HA	2:H:735:ARG:NH2	2.05	0.70
2:H:542:VAL:O	2:H:546:LEU:HG	1.90	0.70
2:C:470:PRO:HG2	2:C:538:GLN:NE2	2.06	0.70
3:I:782:SER:HB3	3:I:783:ARG:HD2	1.73	0.70
3:I:613:ARG:HH11	3:I:613:ARG:HA	1.55	0.70
3:D:910:SER:OG	3:D:911:LEU:HD12	1.92	0.70
3:D:805:GLU:HG3	3:D:809:PRO:HG2	1.74	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:156:GLU:HA	3:D:159:ARG:NH2	2.06	0.70
3:N:1258:ARG:CZ	3:N:1262:LEU:HD11	2.20	0.70
2:C:839:LEU:N	2:C:839:LEU:HD23	2.06	0.70
1:K:92:PRO:HA	1:K:146:ARG:NH2	2.06	0.70
5:X:140:LEU:O	5:X:146:ARG:HG3	1.90	0.70
3:I:153:LEU:HD12	3:I:153:LEU:H	1.57	0.70
3:D:569:ASN:HA	3:D:572:ARG:HD3	1.73	0.70
3:I:1266:ARG:O	3:I:1268:PRO:HD3	1.91	0.70
2:C:857:ASP:HB2	2:C:978:ARG:HG2	1.72	0.70
3:N:767:HIS:CE1	4:O:6:ILE:HD12	2.25	0.70
2:C:673:LEU:O	2:C:868:ASP:HB2	1.90	0.70
1:F:115:LEU:O	1:F:115:LEU:HD12	1.91	0.70
2:M:928:LYS:HA	2:M:928:LYS:NZ	2.07	0.70
5:Z:129:LEU:HD23	5:Z:138:LEU:HD11	1.74	0.70
2:H:881:ASN:HD22	2:H:884:GLN:NE2	1.89	0.70
2:H:913:GLU:O	2:H:917:LEU:HD12	1.92	0.70
2:M:876:VAL:N	2:M:877:PRO:HD2	2.03	0.70
3:D:537:THR:O	3:D:538:SER:C	2.30	0.70
2:C:636:ALA:CB	2:C:703:ILE:HD13	2.21	0.70
1:A:39:PRO:CG	1:B:39:PRO:HG3	2.20	0.70
3:D:207:PHE:HB2	3:D:391:ALA:HB2	1.74	0.70
3:N:625:TYR:CE1	3:N:751:LEU:HD11	2.26	0.70
2:H:15:LEU:HD12	2:H:15:LEU:H	1.55	0.70
2:H:572:ILE:CD1	2:H:573:ARG:H	2.04	0.70
3:N:168:THR:HA	3:N:394:LEU:HB3	1.74	0.70
2:M:26:TYR:CE2	2:M:30:LEU:HD21	2.27	0.70
2:C:612:VAL:HG22	2:C:622:GLU:HG3	1.73	0.70
2:M:1015:LEU:H	2:M:1015:LEU:HD12	1.55	0.70
3:N:1082:ALA:O	3:N:1086:LEU:HD13	1.92	0.70
4:O:31:LEU:HD12	4:O:32:ARG:N	2.05	0.70
3:I:704:ARG:HE	3:I:706:PRO:HD2	1.56	0.70
1:A:66:SER:O	1:A:75:VAL:HG23	1.91	0.70
3:N:729:HIS:HE1	3:N:935:LYS:HD3	1.56	0.70
2:C:1029:GLY:HA2	3:D:626:SER:HB2	1.72	0.70
3:I:804:LEU:CG	3:I:831:GLY:HA2	2.22	0.70
2:C:710:ILE:HD11	2:C:758:ARG:HH11	1.57	0.70
3:I:31:THR:HA	3:I:44:LEU:HD13	1.74	0.70
2:C:154:ARG:NH1	2:C:178:PRO:HG3	2.06	0.70
2:C:878:SER:HB3	3:D:1029:ARG:HH12	1.56	0.70
2:H:66:LEU:HD22	2:H:372:LEU:HD23	1.74	0.70
2:C:572:ILE:HD12	2:C:701:THR:O	1.92	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:754:ILE:HD11	2:H:791:ARG:NH1	2.06	0.70
3:N:151:GLN:HG3	3:N:152:LEU:N	2.05	0.70
1:B:85:LEU:HA	1:B:124:ASN:HD22	1.57	0.70
2:C:89:THR:HG21	2:C:383:ARG:NH2	2.06	0.70
2:H:943:VAL:HG23	2:H:985:GLY:H	1.56	0.70
2:M:838:LYS:HG3	2:M:997:LEU:HD23	1.73	0.70
3:I:886:VAL:HG13	3:I:930:LEU:HD11	1.72	0.70
2:M:109:LYS:HB3	2:M:368:THR:HG21	1.74	0.70
3:D:539:ASP:OD1	3:D:600:LEU:HA	1.91	0.70
2:H:165:LEU:HD21	2:H:418:LEU:HD11	1.74	0.70
3:D:710:ARG:HG3	3:D:711:LEU:N	2.06	0.70
3:N:769:LEU:O	3:N:778:LEU:HD22	1.91	0.70
2:C:211:LEU:HD21	2:C:221:LEU:HD21	1.72	0.70
2:M:578:VAL:HG11	2:M:991:GLN:HE21	1.57	0.70
4:J:48:MET:SD	4:J:54:LEU:HD12	2.32	0.69
2:H:183:SER:C	2:H:193:LEU:HD11	2.12	0.69
3:N:983:LEU:HD23	3:N:983:LEU:H	1.57	0.69
3:I:169:TYR:CE2	3:I:197:SER:HA	2.27	0.69
3:N:1379:VAL:HG21	3:N:1417:TRP:HB2	1.71	0.69
2:M:521:PRO:HB3	3:N:1068:LEU:HD21	1.73	0.69
2:C:183:SER:C	2:C:193:LEU:HD11	2.12	0.69
2:C:350:ARG:HG2	2:C:353:ARG:NH2	2.07	0.69
3:N:1035:ILE:HA	3:N:1038:LEU:HD12	1.74	0.69
2:H:537:LYS:N	2:H:537:LYS:HE3	2.06	0.69
3:N:1083:ASP:HB3	3:N:1237:THR:CG2	2.22	0.69
4:E:37:ASN:N	4:E:37:ASN:HD22	1.90	0.69
3:N:82:LYS:HG2	3:N:83:SER:H	1.56	0.69
2:H:450:GLY:HA2	3:I:1078:ARG:HH11	1.55	0.69
5:Y:44:GLU:O	5:Y:44:GLU:OE2	2.11	0.69
3:N:845:ASN:OD1	3:N:847:ASP:HB2	1.92	0.69
2:H:164:PRO:O	2:H:169:GLY:HA3	1.92	0.69
2:H:139:GLN:HE22	2:H:415:PRO:HD2	1.56	0.69
5:X:44:GLU:OE1	5:X:44:GLU:CA	2.40	0.69
3:I:477:LEU:HD11	3:I:495:ARG:HG2	1.74	0.69
2:H:1081:VAL:HB	2:H:1086:ARG:HH22	1.57	0.69
1:G:19:GLU:HA	1:G:201:THR:HG23	1.74	0.69
3:I:586:ARG:NH2	3:I:1444:THR:HG21	2.07	0.69
3:N:9:ARG:O	3:N:10:ILE:HD12	1.91	0.69
3:D:800:LYS:HA	3:D:829:VAL:CG1	2.21	0.69
1:F:35:THR:O	1:F:39:PRO:HG2	1.92	0.69
2:H:184:MET:HB2	2:H:193:LEU:HG	1.75	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:831:ARG:HH11	2:H:831:ARG:HG2	1.57	0.69
2:M:31:GLN:HE22	2:M:34:VAL:HG22	1.55	0.69
3:D:1183:ILE:HD13	3:D:1183:ILE:N	2.08	0.69
3:I:1461:GLY:H	3:I:1473:PRO:HG2	1.57	0.69
2:C:576:ALA:HB3	2:C:900:ARG:NH1	2.07	0.69
5:Y:55:MET:O	5:Y:59:GLU:HG3	1.91	0.69
3:N:1197:ARG:HG3	3:N:1198:TYR:H	1.55	0.69
2:M:334:ARG:NH1	2:M:415:PRO:HG2	2.07	0.69
2:C:572:ILE:CD1	2:C:573:ARG:H	2.04	0.69
1:B:199:ILE:HG12	1:B:211:LEU:HD11	1.73	0.69
3:D:101:HIS:NE2	3:D:582:LEU:HD21	2.07	0.69
2:C:1012:PRO:HB2	2:C:1021:LEU:O	1.92	0.69
2:M:867:VAL:HG21	2:M:870:ILE:HD11	1.74	0.69
2:H:906:PHE:CE1	3:I:1067:VAL:HA	2.28	0.69
2:C:580:MET:HB3	2:C:584:GLU:OE1	1.92	0.69
1:F:91:ASN:HB3	1:F:94:LEU:CD1	2.23	0.69
2:H:674:VAL:HG12	2:H:990:GLY:O	1.91	0.69
3:I:951:ILE:HD13	3:I:951:ILE:O	1.92	0.69
2:M:326:ASP:HA	2:M:331:ARG:HD2	1.73	0.69
3:D:1462:LEU:O	3:D:1466:VAL:HG23	1.92	0.69
3:D:1344:VAL:O	3:D:1348:LEU:HD13	1.92	0.69
3:I:806:PHE:HE1	3:I:813:LEU:HB3	1.55	0.69
3:I:581:LEU:O	3:I:602:SER:HB2	1.92	0.69
1:G:19:GLU:HG3	1:G:201:THR:O	1.92	0.69
2:M:1066:ALA:HA	2:M:1077:PRO:CD	2.21	0.69
2:H:1049:LEU:HD23	2:H:1050:GLN:N	2.08	0.69
2:C:598:GLU:HB2	2:C:615:TYR:OH	1.93	0.69
3:I:1289:LYS:HE2	3:I:1306:PRO:HG3	1.74	0.69
3:I:783:ARG:HG2	3:I:784:ASP:H	1.55	0.69
3:N:1115:THR:HG23	3:N:1189:ARG:NH2	2.05	0.69
3:I:143:ASN:CB	3:I:161:LEU:HD13	2.21	0.69
2:C:636:ALA:HB2	2:C:703:ILE:HB	1.75	0.69
3:N:185:VAL:HG21	3:N:203:ALA:HB3	1.75	0.69
5:Z:116:PRO:HD2	5:Z:118:LYS:NZ	2.07	0.69
2:H:151:ASP:CG	2:H:152:PRO:HD2	2.13	0.69
1:G:90:LEU:CB	1:G:119:ASP:HB3	2.23	0.69
2:C:1055:LEU:HG	2:C:1079:PRO:HG2	1.73	0.69
1:B:159:LYS:HD3	1:B:159:LYS:H	1.55	0.69
2:C:1067:TYR:O	2:C:1071:ILE:HG12	1.93	0.69
2:C:994:ILE:HG22	2:C:995:MET:H	1.56	0.69
3:I:788:GLY:O	3:I:792:ILE:HG22	1.93	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:676:ILE:CG2	2:C:988:VAL:HG13	2.21	0.69
2:M:975:TYR:HA	2:M:982:PRO:HA	1.75	0.69
3:N:882:PHE:CE2	3:N:906:GLN:HG3	2.28	0.69
3:N:1434:TRP:CD1	3:N:1435:LEU:N	2.61	0.69
3:N:925:GLU:HG2	3:N:929:ARG:NH1	2.08	0.69
2:M:141:HIS:HB3	2:M:418:LEU:HB2	1.74	0.69
3:I:136:ASP:HB3	3:I:137:PRO:CD	2.21	0.69
3:D:1205:TYR:HD2	3:D:1215:VAL:HG21	1.52	0.69
2:H:344:PHE:HE2	2:H:378:LEU:HD21	1.57	0.69
3:N:974:ILE:HD12	3:N:995:LEU:HD21	1.75	0.69
2:H:1063:ARG:HD3	2:H:1064:ASN:N	2.07	0.69
3:D:1111:ASP:HA	3:D:1201:CYS:SG	2.33	0.69
3:I:1148:VAL:HG13	3:I:1163:GLY:HA2	1.75	0.69
3:I:710:ARG:NH2	3:I:1210:SER:HB2	2.07	0.69
2:C:1070:ILE:HD11	2:C:1076:VAL:HG12	1.75	0.69
3:N:1102:THR:HG22	3:N:1222:GLY:HA2	1.72	0.69
5:Y:6:LYS:HB3	5:Y:75:LEU:CD1	2.23	0.69
3:N:1221:VAL:O	3:N:1224:VAL:HG12	1.93	0.69
2:C:794:PRO:HB3	2:C:1027:PHE:HE1	1.57	0.69
1:K:62:LEU:HD13	2:M:745:ILE:O	1.93	0.69
3:I:1426:LYS:HA	3:I:1429:LEU:HD22	1.75	0.69
3:I:466:LYS:HG2	3:I:510:GLU:HG2	1.74	0.69
3:I:1103:HIS:CD2	3:I:1463:LYS:HB2	2.28	0.69
5:X:137:VAL:HG22	5:X:150:ARG:HB2	1.73	0.69
3:D:1465:ASN:HD21	3:D:1470:ARG:HB3	1.57	0.69
3:N:19:ARG:O	3:N:22:SER:HB3	1.93	0.69
2:C:872:ASN:ND2	2:C:874:LEU:HB2	2.07	0.69
3:I:705:ALA:CB	3:I:706:PRO:HD3	2.16	0.69
1:K:101:LEU:HD11	1:K:113:ASP:HB2	1.75	0.69
2:M:122:THR:HG22	2:M:123:GLU:N	2.07	0.69
2:C:1066:ALA:HA	2:C:1077:PRO:HD2	1.75	0.69
2:M:344:PHE:CE2	2:M:378:LEU:HD11	2.28	0.69
2:M:313:LEU:HD21	2:M:322:VAL:HG22	1.74	0.69
2:C:442:GLU:HG2	2:C:454:SER:HB2	1.73	0.69
1:B:25:LEU:HD23	1:B:28:LEU:HD11	1.74	0.69
3:N:41:ARG:HD3	3:N:42:ASP:N	2.08	0.69
2:M:111:ASP:O	2:M:113:VAL:HG22	1.93	0.69
1:K:178:ALA:O	1:K:197:LEU:HD13	1.93	0.69
3:N:1462:LEU:O	3:N:1466:VAL:HG23	1.93	0.69
1:G:52:ALA:HB1	1:G:170:VAL:H	1.57	0.69
2:H:141:HIS:HB3	2:H:418:LEU:HD23	1.75	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:638:LYS:H	3:N:641:GLN:NE2	1.91	0.69
3:I:1197:ARG:HA	3:I:1396:GLU:HG3	1.74	0.69
2:C:690:ILE:HG23	2:C:852:ILE:HG13	1.75	0.69
1:B:218:LEU:HG	1:B:219:ARG:N	2.07	0.69
5:X:36:ALA:HA	5:X:39:GLU:CD	2.14	0.69
2:M:627:ARG:O	2:M:638:ASP:HA	1.93	0.69
2:H:239:PHE:CE2	2:H:252:LYS:HA	2.27	0.68
3:D:844:ALA:HB1	3:D:867:ARG:HH12	1.58	0.68
3:I:800:LYS:CE	3:I:830:ALA:HB3	2.22	0.68
2:C:595:LEU:HD21	2:C:656:ALA:HB3	1.74	0.68
1:L:51:THR:HG22	1:L:89:PHE:CE2	2.28	0.68
2:C:4:LYS:HE2	2:C:917:LEU:HD11	1.74	0.68
3:D:758:GLU:HB3	4:E:20:THR:HG21	1.75	0.68
1:G:50:GLY:HA3	1:G:173:PRO:HD3	1.75	0.68
3:N:796:ARG:HB2	3:N:828:LYS:NZ	2.07	0.68
1:G:48:ILE:HD12	1:G:48:ILE:N	2.08	0.68
3:N:162:ARG:HH12	3:N:450:TYR:HB3	1.58	0.68
1:A:35:THR:O	1:A:39:PRO:HG2	1.93	0.68
2:H:142:ARG:NH2	2:H:325:ILE:HA	2.06	0.68
3:D:704:ARG:NE	3:D:705:ALA:H	1.91	0.68
3:I:843:PHE:HE1	3:I:864:VAL:HG11	1.56	0.68
2:H:15:LEU:HD21	2:H:583:LEU:HD12	1.73	0.68
2:H:686:ASP:O	2:H:688:ILE:HD12	1.93	0.68
3:D:1172:HIS:HA	3:D:1175:ILE:HD12	1.76	0.68
1:L:45:LEU:HD21	1:L:177:VAL:HG13	1.75	0.68
2:H:257:VAL:HG12	2:H:263:ASP:CG	2.13	0.68
1:B:81:ASN:HA	1:B:84:GLU:OE1	1.93	0.68
3:N:654:LYS:HB3	3:N:655:PRO:HD3	1.75	0.68
2:M:290:LEU:H	2:M:290:LEU:HD23	1.58	0.68
2:H:744:ARG:CG	2:H:747:ALA:HB2	2.22	0.68
1:G:151:VAL:H	1:G:169:ALA:HB3	1.57	0.68
3:I:1041:LEU:O	3:I:1041:LEU:HD12	1.93	0.68
2:H:30:LEU:HD23	2:H:340:MET:HE1	1.74	0.68
3:N:879:ARG:HH12	3:N:905:PRO:HA	1.58	0.68
4:E:18:ARG:O	4:E:22:VAL:HG23	1.93	0.68
3:D:95:LEU:HD13	3:D:96:ALA:N	2.07	0.68
4:O:59:ASN:ND2	4:O:61:VAL:HG23	2.05	0.68
3:I:356:PRO:HG2	3:I:359:ALA:HB2	1.76	0.68
2:M:134:ARG:NH1	2:M:134:ARG:HB3	2.09	0.68
3:N:1490:LYS:HB2	3:N:1490:LYS:HZ2	1.56	0.68
2:H:260:LEU:HB3	2:H:291:ALA:HB1	1.75	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:455:LEU:HD13	2:C:467:ILE:HD13	1.74	0.68
3:N:971:LEU:HG	3:N:972:LEU:HD22	1.74	0.68
2:M:841:ASN:HD21	2:M:843:HIS:HB2	1.58	0.68
3:D:406:ASP:O	3:D:422:ALA:HB1	1.93	0.68
2:C:258:TYR:HE2	2:C:290:LEU:CG	2.06	0.68
3:I:111:LYS:HZ1	3:I:1449:GLU:HG3	1.59	0.68
3:N:1310:ARG:HB3	3:N:1327:ARG:NH2	2.04	0.68
2:C:1030:GLN:HA	3:D:622:ARG:NH1	2.09	0.68
1:L:138:LEU:HD13	1:L:138:LEU:O	1.93	0.68
2:C:673:LEU:HD23	2:C:673:LEU:C	2.13	0.68
2:M:495:THR:HG22	2:M:517:ARG:HE	1.58	0.68
2:M:569:VAL:HG11	2:M:996:LYS:HB3	1.74	0.68
2:C:689:VAL:HG12	2:C:690:ILE:N	2.07	0.68
2:H:376:ARG:HB3	2:H:377:PRO:HD3	1.76	0.68
1:K:151:VAL:H	1:K:169:ALA:HB3	1.58	0.68
1:K:218:LEU:HD23	1:L:222:LEU:HD13	1.74	0.68
4:O:8:LYS:O	4:O:12:MET:HG3	1.93	0.68
3:D:550:ARG:HG2	3:D:553:ARG:HH21	1.58	0.68
3:I:1054:GLU:O	3:I:1056:PRO:HD3	1.93	0.68
2:H:34:VAL:HG12	2:H:35:PRO:HD2	1.76	0.68
3:N:793:THR:HG21	3:N:906:GLN:CG	2.23	0.68
3:D:843:PHE:HE1	3:D:864:VAL:HG11	1.58	0.68
2:M:495:THR:CG2	2:M:517:ARG:HH21	2.07	0.68
3:D:1245:GLY:O	3:D:1246:VAL:HG22	1.93	0.68
3:N:1369:GLU:O	3:N:1372:VAL:HG13	1.93	0.68
3:I:673:ALA:O	3:I:676:MET:HB2	1.93	0.68
5:X:105:VAL:HG21	5:X:109:GLU:HG2	1.75	0.68
2:C:535:SER:O	2:C:538:GLN:HG2	1.93	0.68
5:X:83:ILE:HD13	5:X:89:VAL:HG21	1.75	0.68
3:D:401:TYR:HB3	3:D:427:VAL:CG1	2.23	0.68
1:K:74:ASP:OD1	1:K:76:VAL:HG23	1.93	0.68
5:Y:50:GLU:HG2	5:Y:53:ARG:NH1	2.09	0.68
2:C:511:GLU:O	2:C:526:PRO:HD3	1.94	0.68
1:L:41:ARG:HD2	1:L:177:VAL:HG23	1.75	0.68
2:H:328:LEU:HB2	2:H:433:THR:CG2	2.23	0.68
2:M:68:PHE:O	2:M:69:LEU:HD23	1.93	0.68
3:N:1148:VAL:HG13	3:N:1148:VAL:O	1.94	0.68
3:N:704:ARG:HD3	3:N:738:ALA:HB2	1.74	0.68
3:N:165:LYS:HD2	3:N:166:GLN:N	2.08	0.68
5:X:42:LEU:O	5:X:43:ARG:HG2	1.93	0.68
2:H:575:GLN:HE21	2:H:671:ASN:H	1.41	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:132:LEU:HD21	1:A:138:LEU:HB3	1.75	0.68
3:I:1207:TYR:CE2	3:I:1213:ARG:HA	2.28	0.68
2:C:666:LEU:HD12	2:C:667:ALA:H	1.59	0.68
3:N:1495:ILE:HG21	4:O:80:VAL:HG13	1.76	0.68
5:Y:41:ASP:C	5:Y:43:ARG:N	2.47	0.68
5:Y:41:ASP:CG	5:Y:48:TYR:CB	2.62	0.68
2:M:368:THR:CB	2:M:369:PRO:HD3	2.14	0.68
3:N:845:ASN:ND2	3:N:848:GLU:H	1.91	0.68
3:N:860:LEU:HB2	3:N:861:GLN:HE21	1.59	0.68
2:C:191:PHE:HZ	2:C:196:LEU:HD12	1.58	0.68
2:C:196:LEU:HD13	2:C:303:PHE:HE2	1.59	0.68
3:D:166:GLN:NE2	3:D:396:VAL:HB	2.09	0.68
2:H:272:ALA:HA	2:H:464:LEU:CD2	2.24	0.68
2:C:48:PHE:O	2:C:52:PHE:HB2	1.94	0.68
3:I:203:ALA:HB2	3:I:395:VAL:HG23	1.75	0.68
1:G:124:ASN:ND2	1:G:127:LEU:HD22	2.09	0.68
2:M:1029:GLY:HA2	3:N:626:SER:OG	1.93	0.68
1:A:65:PHE:CZ	2:C:830:LYS:HG3	2.29	0.68
3:D:119:SER:CB	3:D:123:LEU:HD13	2.23	0.68
2:H:181:VAL:HA	2:H:220:GLY:O	1.93	0.68
4:O:47:LYS:O	4:O:54:LEU:HD13	1.94	0.68
3:I:657:LEU:O	3:I:661:MET:HG2	1.94	0.68
3:N:539:ASP:OD1	3:N:600:LEU:HA	1.93	0.68
3:I:639:LEU:HD13	3:I:640:HIS:N	2.08	0.68
4:O:66:LYS:O	4:O:69:LEU:HB3	1.94	0.68
1:F:206:THR:OG1	1:F:207:PRO:HD2	1.94	0.68
3:I:771:SER:CB	3:I:778:LEU:HD21	2.15	0.68
1:F:42:ARG:HD3	1:G:35:THR:HG23	1.74	0.68
1:G:185:ARG:HD2	1:G:186:LEU:H	1.57	0.68
3:D:484:PRO:HB3	3:D:488:ARG:CZ	2.24	0.68
3:N:119:SER:HB3	3:N:123:LEU:H	1.59	0.68
3:I:179:VAL:HG21	3:I:189:GLN:HE22	1.59	0.68
2:H:622:GLU:HG3	2:H:623:TYR:N	2.09	0.68
2:H:119:PRO:C	2:H:120:LEU:HD22	2.15	0.68
2:M:1012:PRO:HB2	2:M:1021:LEU:O	1.93	0.68
2:C:343:GLN:HG2	2:C:385:PHE:HB2	1.76	0.68
2:C:1104:GLU:HB2	2:C:1105:LYS:HE3	1.76	0.68
3:I:150:ARG:NH1	3:I:468:LEU:HD11	2.08	0.67
3:I:1361:VAL:HG12	3:I:1363:LEU:HD22	1.75	0.67
3:N:792:ILE:HG21	3:N:941:PHE:CD1	2.29	0.67
2:C:1081:VAL:HG13	2:C:1085:PHE:CD1	2.29	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:501:ALA:HB1	3:D:1452:ILE:HG22	1.75	0.67
3:D:1120:VAL:CG2	3:D:1186:VAL:HB	2.23	0.67
3:D:563:PRO:HA	2:H:223:ASP:OD2	1.94	0.67
2:C:1008:ARG:O	3:D:652:LEU:HG	1.95	0.67
3:I:809:PRO:O	3:I:812:ALA:HB3	1.93	0.67
3:I:812:ALA:HA	3:I:816:HIS:ND1	2.09	0.67
2:C:139:GLN:NE2	2:C:414:GLY:HA3	2.09	0.67
3:D:1237:THR:HG22	3:D:1238:MET:N	2.09	0.67
2:C:151:ASP:CG	2:C:152:PRO:HD2	2.14	0.67
2:M:1:MET:SD	2:M:900:ARG:HG3	2.34	0.67
2:M:630:ARG:HD3	2:M:705:ILE:HB	1.75	0.67
2:M:705:ILE:HG22	2:M:706:GLU:N	2.08	0.67
3:N:963:TYR:CE2	3:N:1002:LYS:HD3	2.30	0.67
3:I:550:ARG:HD3	3:I:573:MET:HB3	1.77	0.67
3:D:486:ARG:HA	3:D:489:ARG:HG2	1.74	0.67
2:C:40:GLU:O	2:C:41:ASN:HB2	1.93	0.67
1:L:212:ASN:O	1:L:215:VAL:HG22	1.93	0.67
2:H:882:LEU:HD21	3:I:1038:LEU:HD22	1.75	0.67
1:F:43:ILE:HG22	1:G:32:PHE:HE2	1.58	0.67
3:N:810:GLU:O	3:N:813:LEU:HG	1.94	0.67
1:G:186:LEU:HB3	1:G:192:LEU:HD11	1.76	0.67
5:Z:115:THR:CB	5:Z:116:PRO:HD3	2.25	0.67
3:I:179:VAL:HG21	3:I:191:LEU:HD23	1.75	0.67
4:O:47:LYS:HA	4:O:54:LEU:HB3	1.77	0.67
2:H:115:LEU:N	2:H:115:LEU:HD23	2.09	0.67
1:B:100:LEU:HD22	1:B:100:LEU:H	1.56	0.67
3:I:1364:HIS:CE1	3:I:1366:LYS:HG3	2.29	0.67
2:M:297:GLU:HG2	2:M:298:PHE:N	2.08	0.67
1:A:57:TYR:HE1	1:A:163:ASN:HB2	1.59	0.67
3:I:797:LYS:HE3	3:I:1016:PRO:HG2	1.76	0.67
2:H:1100:GLN:HB2	3:I:9:ARG:HB3	1.75	0.67
3:I:1020:LEU:HA	3:I:1023:MET:CE	2.25	0.67
3:I:187:LYS:HG2	3:I:200:ASP:N	2.10	0.67
2:H:755:LEU:N	2:H:755:LEU:HD23	2.10	0.67
2:H:470:PRO:HG2	2:H:538:GLN:HE22	1.58	0.67
3:N:637:LEU:HD21	3:N:642:CYS:HA	1.75	0.67
1:F:78:ILE:HD12	1:F:130:ALA:HB2	1.76	0.67
1:G:85:LEU:HD12	1:G:124:ASN:HB3	1.76	0.67
2:H:906:PHE:CD1	3:I:1067:VAL:HG22	2.29	0.67
5:X:5:VAL:HG21	5:X:68:ILE:HG23	1.77	0.67
1:G:32:PHE:O	1:G:36:LEU:HG	1.94	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1240:THR:HG22	3:D:1241:PHE:N	2.03	0.67
1:B:201:THR:HG22	1:B:203:GLY:H	1.59	0.67
2:C:94:LEU:HD12	2:C:115:LEU:O	1.94	0.67
2:C:333:ILE:HD11	2:C:410:ILE:HG21	1.75	0.67
1:A:45:LEU:HG	1:A:174:VAL:CG1	2.24	0.67
3:N:25:GLU:HB2	3:N:92:HIS:CE1	2.29	0.67
3:D:1107:VAL:O	3:D:1218:GLY:HA2	1.95	0.67
3:I:1200:VAL:HG22	3:I:1373:ARG:HH12	1.60	0.67
4:J:37:ASN:HD22	4:J:37:ASN:N	1.92	0.67
2:M:1076:VAL:CG2	3:N:752:SER:HA	2.23	0.67
1:B:138:LEU:O	1:B:138:LEU:HD13	1.94	0.67
3:I:1031:ASN:HD21	5:Y:32:ASP:CB	2.08	0.67
3:I:15:PRO:HA	3:I:18:ILE:HD12	1.76	0.67
3:I:1262:LEU:HD23	3:I:1352:ILE:HD13	1.75	0.67
2:M:1007:ALA:HB2	3:N:648:MET:SD	2.34	0.67
2:M:66:LEU:HD11	2:M:98:LEU:HB2	1.77	0.67
2:C:676:ILE:HD12	2:C:871:LEU:O	1.94	0.67
2:C:463:GLU:C	2:C:464:LEU:HD23	2.15	0.67
3:N:179:VAL:HG13	3:N:183:GLU:CD	2.15	0.67
2:H:674:VAL:HG23	2:H:869:VAL:HG13	1.77	0.67
3:I:6:ARG:C	3:I:1459:LEU:HD13	2.15	0.67
3:N:987:GLU:O	3:N:991:GLN:HB2	1.94	0.67
3:D:496:LEU:HD12	3:D:499:VAL:HB	1.77	0.67
3:N:695:ILE:HG23	3:N:696:HIS:H	1.59	0.67
2:H:612:VAL:HG22	2:H:622:GLU:CD	2.15	0.67
2:M:689:VAL:HB	2:M:870:ILE:HB	1.76	0.67
2:H:3:ILE:HB	2:H:902:ILE:HD11	1.76	0.67
2:H:876:VAL:N	2:H:877:PRO:HD2	2.08	0.67
3:I:700:VAL:HG12	3:I:749:VAL:HG13	1.75	0.67
3:D:1345:GLU:CA	3:D:1348:LEU:HD22	2.25	0.67
3:D:133:ILE:HG23	3:D:455:ARG:O	1.94	0.67
4:O:54:LEU:HG	4:O:58:PRO:CG	2.23	0.67
1:F:75:VAL:O	1:F:79:ILE:HG23	1.95	0.67
2:M:328:LEU:HB2	2:M:433:THR:CG2	2.25	0.67
3:I:963:TYR:CE2	3:I:1002:LYS:HB3	2.30	0.67
2:H:65:VAL:O	2:H:100:LEU:HD22	1.95	0.67
3:I:1277:ILE:HD11	3:I:1301:LYS:NZ	2.10	0.67
3:D:1189:ARG:HB3	3:D:1204:CYS:HA	1.76	0.67
3:D:1041:LEU:HB2	3:D:1059:SER:O	1.94	0.67
2:H:1107:ASN:HD22	3:I:2:LYS:NZ	1.92	0.67
3:I:1036:ARG:NH2	3:I:1043:GLY:H	1.92	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:809:PRO:HB2	3:D:812:ALA:CB	2.18	0.67
3:D:108:VAL:HB	3:D:109:PRO:CD	2.22	0.67
1:L:159:LYS:N	1:L:159:LYS:HE2	2.10	0.67
2:C:140:ILE:O	2:C:141:HIS:HB3	1.95	0.67
1:F:73:GLU:HB2	1:F:78:ILE:HD11	1.75	0.67
2:H:571:LEU:HD11	2:H:701:THR:N	2.10	0.67
2:H:115:LEU:HA	2:H:375:SER:HB2	1.76	0.67
2:C:336:VAL:HA	2:C:339:LEU:HD12	1.75	0.67
3:I:126:VAL:O	3:I:130:SER:HB3	1.95	0.67
3:D:142:LEU:HD12	3:D:142:LEU:H	1.59	0.67
3:D:1498:ALA:HB3	4:E:84:ARG:NH2	2.09	0.67
2:M:224:GLU:OE1	2:M:227:PHE:HB2	1.95	0.67
1:L:156:HIS:ND1	1:L:158:ILE:HG12	2.09	0.67
4:O:41:GLU:HG3	4:O:42:PRO:HD3	1.77	0.67
1:F:94:LEU:HD21	1:F:119:ASP:HB3	1.76	0.67
1:F:162:ILE:HD12	1:F:163:ASN:N	2.10	0.67
2:C:310:LEU:O	2:C:313:LEU:HD23	1.94	0.67
5:X:120:SER:HB2	5:X:123:SER:HB2	1.77	0.67
1:B:123:MET:C	1:B:125:PRO:HD3	2.15	0.67
1:A:44:LEU:HD21	1:A:199:ILE:HG21	1.76	0.67
3:D:345:TYR:CD2	3:D:377:VAL:HG22	2.29	0.67
3:D:1200:VAL:HG12	3:D:1201:CYS:N	2.10	0.67
3:I:1345:GLU:HA	3:I:1348:LEU:HD22	1.77	0.67
3:N:675:ARG:HA	3:N:678:GLU:HB3	1.77	0.67
3:D:29:PRO:HG3	3:D:549:ASN:ND2	2.09	0.67
2:C:1072:LYS:O	3:D:659:LYS:NZ	2.28	0.67
1:K:220:GLU:O	1:K:223:THR:HG22	1.94	0.67
3:N:843:PHE:HE1	3:N:864:VAL:HG11	1.60	0.67
2:C:196:LEU:HD13	2:C:303:PHE:CE2	2.30	0.67
2:M:1037:VAL:HG13	2:M:1049:LEU:HD11	1.77	0.67
3:D:720:LEU:HD13	3:D:720:LEU:N	2.10	0.67
3:N:637:LEU:HD12	3:N:641:GLN:HE21	1.60	0.67
3:I:844:ALA:O	3:I:867:ARG:HG2	1.94	0.67
2:M:13:ILE:HG13	2:M:13:ILE:O	1.95	0.67
2:H:80:GLN:HG2	2:H:90:TYR:CE2	2.30	0.67
3:N:138:LYS:N	3:N:138:LYS:HD3	2.08	0.67
2:M:943:VAL:HG23	2:M:985:GLY:H	1.58	0.67
3:N:899:LEU:HD12	3:N:900:ILE:HG23	1.77	0.67
3:I:1305:LEU:HD22	3:I:1311:LEU:HD11	1.76	0.67
3:N:1265:ALA:HB2	3:N:1421:LEU:HD11	1.76	0.67
2:M:863:ASP:O	2:M:865:THR:HG22	1.95	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:834:THR:HG23	3:N:839:LEU:HD21	1.76	0.66
2:M:722:ILE:HD13	2:M:722:ILE:O	1.95	0.66
3:D:847:ASP:HA	3:D:850:LEU:HD13	1.78	0.66
3:D:1330:ILE:HG22	3:D:1331:ASP:N	2.09	0.66
1:B:83:LYS:HD3	1:B:167:VAL:HG12	1.76	0.66
5:Z:111:ASN:H	5:Z:118:LYS:HB2	1.59	0.66
1:L:138:LEU:HD22	1:L:138:LEU:C	2.14	0.66
2:M:672:VAL:HG22	2:M:994:ILE:HD11	1.76	0.66
2:M:511:GLU:O	2:M:526:PRO:HD3	1.94	0.66
2:H:471:TYR:CE2	2:H:496:ILE:HG21	2.30	0.66
1:G:71:VAL:HG13	1:G:73:GLU:OE1	1.95	0.66
2:H:1092:LEU:HD12	2:H:1099:VAL:HG21	1.75	0.66
3:D:879:ARG:HH21	3:D:903:ASP:C	1.98	0.66
3:N:922:LEU:HD12	3:N:926:LYS:HB2	1.78	0.66
1:K:102:LYS:HD3	1:K:139:ASN:OD1	1.95	0.66
2:C:569:VAL:O	2:C:571:LEU:HD12	1.94	0.66
2:H:471:TYR:O	2:H:483:VAL:HG13	1.95	0.66
3:N:412:GLY:HA2	3:N:434:ARG:NE	2.09	0.66
3:I:184:GLU:OE1	3:I:202:VAL:HG13	1.94	0.66
2:H:1046:ALA:HB1	3:I:1471:LEU:HD11	1.76	0.66
3:D:615:ARG:HH11	3:D:615:ARG:HB2	1.60	0.66
2:C:544:THR:O	2:C:547:ILE:HG12	1.96	0.66
1:F:128:HIS:HE1	1:F:131:THR:HG23	1.59	0.66
1:K:189:ARG:HG3	1:K:189:ARG:HH11	1.61	0.66
1:G:30:ARG:HH11	1:G:30:ARG:HB3	1.60	0.66
2:M:230:ARG:HB3	2:M:233:GLU:HB3	1.77	0.66
3:I:403:PHE:HB2	3:I:423:ASP:OD1	1.94	0.66
2:H:1066:ALA:HA	2:H:1077:PRO:CD	2.26	0.66
1:K:106:PRO:HG3	1:K:133:GLU:O	1.94	0.66
3:N:646:LYS:CD	3:N:647:ARG:HH12	2.08	0.66
3:I:1036:ARG:HH21	3:I:1043:GLY:N	1.92	0.66
2:M:710:ILE:HD11	2:M:758:ARG:CZ	2.24	0.66
2:C:174:LEU:HD22	2:C:193:LEU:HD21	1.77	0.66
3:I:644:LEU:HD12	3:I:645:PRO:CD	2.24	0.66
2:H:262:ALA:HA	2:H:266:ARG:HD2	1.77	0.66
3:D:625:TYR:O	3:D:652:LEU:HD21	1.95	0.66
1:B:117:VAL:HG12	1:B:118:ALA:N	2.10	0.66
2:H:409:ARG:O	2:H:410:ILE:HD13	1.95	0.66
3:I:396:VAL:HG21	3:I:447:VAL:HG22	1.77	0.66
1:K:38:ASN:O	1:K:42:ARG:HG3	1.94	0.66
2:M:64:LEU:HD12	2:M:100:LEU:HD21	1.78	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:628:ARG:HG3	3:D:628:ARG:HH11	1.60	0.66
3:N:1484:THR:HG21	4:O:22:VAL:HG22	1.78	0.66
1:F:73:GLU:HB2	1:F:78:ILE:CD1	2.26	0.66
1:F:74:ASP:O	1:F:78:ILE:HG12	1.95	0.66
1:F:79:ILE:HG13	1:F:80:LEU:N	2.11	0.66
3:I:365:ASP:H	3:I:379:ALA:HB3	1.61	0.66
3:N:471:GLU:O	3:N:475:LYS:HG3	1.96	0.66
1:F:12:THR:HA	1:G:229:GLN:HB2	1.77	0.66
3:N:1374:GLN:NE2	3:N:1377:LYS:HD2	2.11	0.66
3:I:603:LEU:O	3:I:606:ILE:HG22	1.95	0.66
2:C:679:PHE:HD2	2:C:680:ASP:H	1.43	0.66
3:N:792:ILE:HD12	3:N:793:THR:N	2.09	0.66
3:D:1258:ARG:NE	3:D:1262:LEU:HD11	2.10	0.66
3:I:452:ILE:HG12	3:I:453:ASP:N	2.08	0.66
2:H:724:ARG:NH2	2:H:734:LEU:HD13	2.10	0.66
1:A:42:ARG:NH1	1:B:34:VAL:HB	2.09	0.66
1:B:19:GLU:HG3	1:B:201:THR:O	1.96	0.66
3:I:806:PHE:H	3:I:832:ARG:HG3	1.59	0.66
3:N:776:GLU:OE1	3:N:912:LYS:HD3	1.94	0.66
2:C:710:ILE:CD1	2:C:758:ARG:HH11	2.08	0.66
1:A:142:VAL:HG23	1:A:142:VAL:O	1.95	0.66
2:C:808:ARG:HH21	2:C:820:ARG:NE	1.93	0.66
2:M:115:LEU:HD23	2:M:115:LEU:N	2.11	0.66
1:B:138:LEU:HD22	1:B:139:ASN:N	2.11	0.66
3:N:209:ARG:HG3	3:N:209:ARG:NH1	2.08	0.66
3:I:459:GLU:O	3:I:462:GLN:HB3	1.95	0.66
3:D:551:ASN:O	3:D:555:LYS:HG3	1.96	0.66
3:I:1286:THR:O	3:I:1287:GLU:HB2	1.95	0.66
2:M:239:PHE:CE2	2:M:252:LYS:HA	2.30	0.66
3:D:1197:ARG:HA	3:D:1396:GLU:HG3	1.76	0.66
5:Y:41:ASP:OD1	5:Y:48:TYR:HB3	1.94	0.66
3:N:847:ASP:O	3:N:851:LEU:HG	1.96	0.66
3:D:873:LEU:HD23	3:D:874:GLU:N	2.11	0.66
3:D:1381:VAL:HG23	3:D:1391:GLU:O	1.95	0.66
1:A:72:LYS:HE3	2:C:644:VAL:HG12	1.77	0.66
2:H:91:GLN:HB3	2:H:117:HIS:HB2	1.76	0.66
2:C:1065:ALA:C	2:C:1077:PRO:HG2	2.15	0.66
3:D:405:ASP:HB2	3:D:423:ASP:HA	1.78	0.66
2:C:605:LYS:HD3	2:C:610:ARG:NH1	2.10	0.66
3:I:544:TYR:O	3:I:547:LEU:HB3	1.94	0.66
5:Y:139:SER:HB3	5:Y:148:GLU:OE1	1.96	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:153:ALA:HB2	1:G:168:ASP:N	2.11	0.66
2:C:87:ASP:HA	2:C:131:GLY:HA3	1.76	0.66
5:X:115:THR:CB	5:X:116:PRO:HD3	2.25	0.66
3:I:39:PRO:HG2	3:I:45:PHE:O	1.96	0.66
3:N:520:LEU:HG	3:N:521:PRO:HD2	1.78	0.66
1:K:78:ILE:HG23	1:K:129:ILE:HG22	1.78	0.66
3:I:136:ASP:CB	3:I:137:PRO:HD3	2.23	0.66
3:D:707:THR:HG21	3:D:713:ILE:HD11	1.77	0.66
2:H:577:PRO:HA	2:H:671:ASN:HD21	1.61	0.66
2:H:994:ILE:HD12	2:H:994:ILE:N	2.11	0.66
2:C:569:VAL:HG12	2:C:996:LYS:O	1.95	0.66
2:C:236:ILE:H	2:C:236:ILE:HD12	1.59	0.66
2:M:592:LEU:O	2:M:592:LEU:HD13	1.95	0.66
1:L:227:ASN:N	1:L:227:ASN:HD22	1.93	0.66
3:D:1242:HIS:O	3:D:1243:THR:HG22	1.96	0.66
3:I:1084:THR:CB	5:Y:43:ARG:HD3	2.26	0.66
3:I:889:ALA:HB3	3:I:930:LEU:HD12	1.77	0.66
2:C:878:SER:HB3	3:D:1029:ARG:NH1	2.11	0.66
3:D:907:GLU:HG2	3:D:1027:GLY:N	2.10	0.66
2:C:274:ARG:O	2:C:277:ALA:HB3	1.96	0.66
3:D:817:GLU:O	3:D:820:GLU:HB3	1.96	0.66
2:M:1042:ALA:HA	3:N:1220:ALA:HB3	1.78	0.66
4:J:25:LYS:HA	4:J:28:GLN:NE2	2.07	0.66
2:C:94:LEU:HB3	2:C:116:GLY:O	1.96	0.66
2:C:722:ILE:HD11	2:C:741:GLY:HA3	1.77	0.66
2:C:939:ARG:HG3	2:C:975:TYR:CE2	2.31	0.66
2:M:18:LEU:N	2:M:18:LEU:HD12	2.10	0.66
3:I:674:ARG:HB3	3:I:675:ARG:NH2	2.11	0.66
2:C:706:GLU:HB3	2:C:827:VAL:CG1	2.26	0.66
2:H:289:THR:O	2:H:291:ALA:N	2.29	0.66
2:H:1050:GLN:HE22	3:I:1471:LEU:N	1.93	0.66
4:O:5:GLY:HA3	4:O:8:LYS:HD2	1.77	0.66
3:N:1171:VAL:O	3:N:1175:ILE:HD13	1.96	0.66
1:G:58:ILE:HB	1:G:61:VAL:CG2	2.26	0.66
3:I:636:GLN:HE21	3:I:637:LEU:N	1.94	0.66
3:I:700:VAL:HG13	3:I:718:PRO:HG2	1.78	0.66
2:H:93:PRO:HA	2:H:117:HIS:ND1	2.11	0.66
2:H:471:TYR:H	2:H:483:VAL:HG13	1.61	0.66
2:H:397:GLU:H	2:H:633:GLN:NE2	1.94	0.66
2:C:148:PHE:HE2	2:C:310:LEU:HD13	1.61	0.66
3:N:1485:GLN:HG3	4:O:79:LEU:HB2	1.77	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:54:LYS:HG3	3:D:55:ASP:H	1.61	0.66
2:C:83:CYS:HA	2:C:88:LEU:HB3	1.78	0.66
3:I:875:THR:CG2	3:I:879:ARG:HD3	2.25	0.66
1:K:43:ILE:HD11	1:L:35:THR:HG21	1.76	0.66
2:M:442:GLU:HG2	2:M:454:SER:HB2	1.78	0.66
3:D:1103:HIS:CD2	3:D:1463:LYS:HD2	2.31	0.66
2:M:310:LEU:HD23	2:M:311:PHE:CE2	2.31	0.66
2:H:140:ILE:CG2	2:H:333:ILE:HG12	2.26	0.66
3:N:781:PRO:HB3	3:N:785:ILE:HG21	1.78	0.66
1:L:159:LYS:H	1:L:159:LYS:HE2	1.61	0.66
1:F:56:VAL:HG22	1:F:142:VAL:HG12	1.76	0.66
2:C:736:ASP:O	2:C:744:ARG:HG2	1.96	0.66
3:I:401:TYR:HB3	3:I:427:VAL:HG11	1.77	0.66
2:H:632:ASN:HB2	2:H:633:GLN:NE2	2.10	0.66
3:I:433:GLY:HA2	3:I:449:SER:O	1.96	0.66
5:X:89:VAL:HG13	5:X:151:VAL:HG13	1.78	0.66
5:Y:50:GLU:HG2	5:Y:53:ARG:HH12	1.60	0.66
2:H:424:GLY:O	2:H:428:ARG:HG3	1.96	0.66
2:M:50:GLU:HG3	2:M:266:ARG:HD2	1.77	0.66
2:H:1094:ALA:HB3	2:H:1095:LEU:HD13	1.78	0.65
3:D:168:THR:CA	3:D:394:LEU:HB3	2.20	0.65
2:H:1042:ALA:HB2	3:I:1223:ILE:HG21	1.78	0.65
3:D:1102:THR:O	3:D:1222:GLY:HA3	1.95	0.65
3:D:1274:ILE:HG22	3:D:1323:GLN:C	2.16	0.65
3:N:141:ILE:HG12	3:N:142:LEU:N	2.11	0.65
3:D:119:SER:HB2	3:D:123:LEU:HB2	1.77	0.65
2:H:1016:ILE:N	2:H:1016:ILE:HD13	2.07	0.65
4:O:59:ASN:HD21	4:O:61:VAL:CG2	2.07	0.65
3:N:188:GLY:HA2	3:N:197:SER:O	1.96	0.65
1:G:80:LEU:HD21	3:I:867:ARG:NH1	2.11	0.65
2:M:835:VAL:HG13	2:M:836:GLY:H	1.60	0.65
2:H:1031:ARG:HA	3:I:622:ARG:HA	1.78	0.65
2:H:599:GLU:HG3	2:H:600:ASP:N	2.10	0.65
1:F:99:LEU:N	1:F:99:LEU:HD22	2.11	0.65
1:F:123:MET:C	1:F:125:PRO:HD3	2.16	0.65
3:D:409:VAL:CG1	3:D:435:VAL:HG11	2.26	0.65
3:D:112:ILE:O	3:D:115:LEU:HB3	1.96	0.65
2:M:113:VAL:HG11	2:M:373:VAL:HG21	1.78	0.65
2:M:66:LEU:HD23	2:M:100:LEU:HD23	1.78	0.65
3:D:800:LYS:HD3	3:D:802:ALA:C	2.16	0.65
3:D:540:LEU:H	3:D:540:LEU:HD13	1.60	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:853:LEU:HD23	2:H:858:MET:HE3	1.78	0.65
3:D:1105:ILE:HD12	3:D:1105:ILE:N	2.11	0.65
2:H:338:GLU:O	2:H:341:THR:HG22	1.96	0.65
2:C:29:ALA:O	2:C:44:ILE:HD13	1.95	0.65
1:B:85:LEU:CD1	1:B:124:ASN:HB3	2.22	0.65
2:M:684:PHE:CG	2:M:685:GLU:N	2.63	0.65
5:Z:6:LYS:HB3	5:Z:75:LEU:HD11	1.77	0.65
3:I:1165:TYR:OH	3:I:1202:GLN:HG2	1.96	0.65
1:L:52:ALA:HB1	1:L:170:VAL:H	1.61	0.65
3:D:516:ALA:O	3:D:518:PRO:HD3	1.97	0.65
1:B:90:LEU:HB3	1:B:119:ASP:HB3	1.79	0.65
5:X:16:MET:HE2	5:X:69:LEU:HD22	1.78	0.65
3:I:1102:THR:O	3:I:1222:GLY:HA3	1.95	0.65
3:D:1117:TYR:C	3:D:1118:ILE:HD12	2.16	0.65
2:C:860:HIS:HA	2:C:866:PRO:HA	1.79	0.65
2:C:841:ASN:HD22	2:C:992:MET:CE	2.09	0.65
2:C:884:GLN:HG3	2:C:885:ILE:H	1.62	0.65
2:M:662:GLU:HG2	2:M:663:ASN:ND2	2.11	0.65
3:D:795:VAL:HG11	3:D:863:VAL:HG13	1.77	0.65
3:I:729:HIS:CE1	3:I:731:LEU:HB2	2.32	0.65
1:A:156:HIS:ND1	1:A:158:ILE:HD13	2.10	0.65
3:N:366:LYS:HE2	3:N:369:ALA:CB	2.23	0.65
2:M:874:LEU:HD13	3:N:783:ARG:CB	2.26	0.65
2:C:221:LEU:HD12	2:C:222:MET:N	2.11	0.65
3:D:53:ILE:HG13	3:D:53:ILE:O	1.96	0.65
3:N:400:VAL:HG23	3:N:443:VAL:HG21	1.78	0.65
3:I:89:ARG:HG3	3:I:89:ARG:HH11	1.62	0.65
3:D:786:ILE:HG21	3:D:1028:ALA:N	2.11	0.65
2:M:861:LEU:HD23	2:M:862:PRO:CD	2.25	0.65
3:D:150:ARG:HH12	3:D:468:LEU:CD1	2.10	0.65
4:O:47:LYS:N	4:O:54:LEU:HD22	2.12	0.65
2:H:276:LYS:H	2:H:276:LYS:HD2	1.62	0.65
2:M:840:ALA:O	2:M:994:ILE:HG22	1.95	0.65
1:A:58:ILE:HB	1:A:61:VAL:HB	1.78	0.65
3:N:15:PRO:HA	3:N:18:ILE:HD12	1.77	0.65
2:H:19:THR:O	2:H:23:VAL:HG23	1.97	0.65
2:M:572:ILE:HG23	2:M:701:THR:O	1.96	0.65
3:N:96:ALA:HB3	3:N:554:LEU:HD23	1.77	0.65
2:H:861:LEU:HD23	2:H:862:PRO:N	2.11	0.65
2:C:546:LEU:HB2	2:C:565:GLN:HE22	1.60	0.65
2:C:880:MET:N	2:C:880:MET:SD	2.68	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:1406:ARG:HB2	3:I:1412:LYS:HE3	1.79	0.65
2:C:626:ARG:HB3	2:C:629:TYR:CD1	2.32	0.65
3:N:489:ARG:HH22	3:N:1389:LEU:HD11	1.61	0.65
3:N:540:LEU:H	3:N:540:LEU:HD12	1.61	0.65
3:D:171:LEU:HD11	3:D:393:ILE:HD12	1.78	0.65
2:C:352:ALA:HA	2:C:355:VAL:CG1	2.27	0.65
3:D:554:LEU:HD11	3:D:571:LYS:NZ	2.11	0.65
3:I:800:LYS:HE2	3:I:830:ALA:HB3	1.77	0.65
3:N:1490:LYS:HB2	3:N:1490:LYS:NZ	2.12	0.65
2:M:198:ARG:HG3	2:M:228:ALA:HA	1.78	0.65
2:M:1037:VAL:HG13	2:M:1049:LEU:CD1	2.26	0.65
1:F:39:PRO:CG	1:G:39:PRO:HG3	2.24	0.65
2:H:675:ALA:HA	2:H:989:VAL:HG12	1.78	0.65
1:K:123:MET:C	1:K:125:PRO:HD3	2.16	0.65
1:A:52:ALA:CB	1:A:170:VAL:HG22	2.27	0.65
2:C:572:ILE:HG22	2:C:703:ILE:HD11	1.78	0.65
3:N:128:TYR:CE2	3:N:458:ALA:HA	2.32	0.65
2:H:261:ILE:CG1	2:H:262:ALA:H	2.09	0.65
3:N:141:ILE:HG12	3:N:142:LEU:H	1.61	0.65
3:D:603:LEU:O	3:D:606:ILE:HG22	1.97	0.65
2:C:95:TYR:HA	2:C:114:PHE:HB2	1.79	0.65
3:I:804:LEU:HD12	3:I:804:LEU:O	1.97	0.65
3:I:657:LEU:HD22	3:I:691:LEU:HD13	1.76	0.65
1:K:100:LEU:HD12	1:K:101:LEU:H	1.62	0.65
1:A:211:LEU:O	1:A:215:VAL:HG23	1.96	0.65
3:N:553:ARG:O	3:N:557:LEU:HG	1.97	0.65
5:Y:6:LYS:HD2	5:Y:6:LYS:N	2.11	0.65
3:I:925:GLU:HG3	3:I:926:LYS:H	1.62	0.65
3:I:1037:GLN:HG2	3:I:1042:ARG:HB3	1.79	0.65
2:C:258:TYR:CE2	2:C:290:LEU:HG	2.30	0.65
2:C:261:ILE:H	2:C:261:ILE:HD12	1.61	0.65
2:H:673:LEU:HD13	2:H:674:VAL:N	2.12	0.65
2:M:408:ARG:HE	2:M:455:LEU:HD11	1.61	0.65
2:H:165:LEU:HB3	2:H:265:ARG:NH2	2.10	0.65
3:N:1046:GLN:HA	3:N:1052:THR:HA	1.78	0.65
3:N:985:ASP:O	3:N:988:ARG:HG2	1.96	0.65
2:C:697:ARG:HD2	2:C:699:PHE:CE1	2.30	0.65
2:C:848:VAL:HG23	3:D:740:PHE:O	1.97	0.65
2:C:49:ARG:HH11	2:C:49:ARG:HB2	1.59	0.65
2:H:544:THR:O	2:H:547:ILE:HD13	1.97	0.65
2:C:603:VAL:HG23	2:C:647:GLN:O	1.96	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:620:GLY:O	3:N:621:LYS:HG2	1.97	0.65
5:Z:45:ASN:HB3	5:Z:48:TYR:HB2	1.78	0.65
3:I:1462:LEU:HD23	3:I:1472:ILE:HB	1.78	0.65
3:N:41:ARG:HD3	3:N:42:ASP:H	1.61	0.65
2:M:992:MET:CE	2:M:993:PHE:H	2.09	0.65
2:C:148:PHE:CE2	2:C:310:LEU:HD13	2.32	0.65
3:N:209:ARG:HH11	3:N:209:ARG:HG3	1.61	0.65
3:I:1115:THR:HG22	3:I:1151:ARG:NH2	2.11	0.65
5:X:26:LEU:HD13	5:X:58:ASN:CB	2.26	0.65
2:H:897:LEU:HB3	2:H:899:GLN:HE21	1.61	0.65
3:D:838:ARG:HG3	3:D:863:VAL:HB	1.79	0.65
1:F:177:VAL:HG13	1:F:199:ILE:HD12	1.77	0.65
3:D:1481:VAL:CG1	4:E:18:ARG:HA	2.27	0.65
4:J:68:LEU:HD13	4:J:68:LEU:N	2.12	0.65
2:C:1030:GLN:OE1	3:D:628:ARG:HG2	1.97	0.65
4:E:58:PRO:HG2	4:E:63:TRP:HE1	1.62	0.65
1:L:101:LEU:O	1:L:101:LEU:HD23	1.97	0.65
2:H:571:LEU:HD21	2:H:700:TYR:HA	1.79	0.65
2:M:833:LEU:HA	2:M:837:ASP:OD2	1.96	0.65
3:N:1349:VAL:HG12	3:N:1368:ILE:HG22	1.78	0.65
1:L:99:LEU:CD2	1:L:115:LEU:HD12	2.26	0.65
2:M:266:ARG:O	2:M:266:ARG:HD3	1.97	0.65
2:M:723:THR:HG23	2:M:725:ASP:HB3	1.79	0.65
3:N:1170:ASP:O	3:N:1173:LEU:HG	1.97	0.65
3:N:834:THR:HG1	3:N:838:ARG:HB2	1.61	0.65
2:C:328:LEU:HD11	2:C:434:HIS:HD2	1.62	0.65
2:H:12:VAL:HG13	2:H:13:ILE:HG22	1.77	0.65
3:I:147:VAL:HG22	3:I:149:LYS:H	1.61	0.65
1:A:156:HIS:H	1:A:156:HIS:CD2	2.14	0.65
3:D:1379:VAL:CG2	3:D:1417:TRP:HB2	2.25	0.65
4:O:47:LYS:C	4:O:54:LEU:HB3	2.18	0.65
1:F:80:LEU:HD23	1:F:81:ASN:N	2.11	0.65
3:D:1108:ARG:HG2	3:D:1108:ARG:O	1.96	0.65
3:N:792:ILE:O	3:N:878:GLY:HA3	1.95	0.65
2:C:292:ARG:HD2	2:C:299:LYS:CE	2.26	0.65
2:C:477:GLY:HA2	2:C:508:ILE:CD1	2.27	0.65
3:I:696:HIS:CE1	4:J:54:LEU:HD11	2.32	0.65
3:I:6:ARG:NH2	3:I:1460:ILE:HG22	2.03	0.65
3:N:977:ALA:HB1	3:N:982:PHE:CG	2.32	0.65
3:N:759:ALA:O	3:N:763:MET:HB3	1.97	0.65
1:L:185:ARG:HG3	3:N:720:LEU:HG	1.79	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:159:ILE:HD12	2:H:159:ILE:O	1.96	0.65
2:M:733:ALA:HB1	2:M:754:ILE:HD11	1.78	0.65
2:H:1036:GLU:OE1	2:H:1036:GLU:N	2.30	0.65
3:I:400:VAL:HG23	3:I:443:VAL:HG21	1.79	0.65
2:C:1015:LEU:H	2:C:1015:LEU:HD12	1.62	0.65
2:C:943:VAL:HG13	2:C:944:LEU:N	2.11	0.65
2:M:750:LYS:HG3	2:M:751:PRO:HD2	1.79	0.65
1:L:34:VAL:HG22	1:L:181:VAL:CG2	2.26	0.64
2:M:351:LEU:HD21	2:M:374:ASN:O	1.97	0.64
3:D:807:ALA:HA	3:D:833:GLU:OE1	1.97	0.64
3:I:1106:VAL:HG13	3:I:1219:GLU:O	1.98	0.64
2:H:272:ALA:HA	2:H:464:LEU:HD22	1.79	0.64
2:C:352:ALA:HA	2:C:355:VAL:HG12	1.79	0.64
4:O:54:LEU:HG	4:O:58:PRO:CB	2.26	0.64
3:D:1237:THR:O	3:D:1238:MET:HB2	1.96	0.64
2:M:503:LEU:HD23	2:M:504:GLU:N	2.12	0.64
3:I:470:LEU:HD12	3:I:503:LEU:HD23	1.79	0.64
2:H:498:GLN:HB2	2:H:514:VAL:HG23	1.79	0.64
5:Z:93:ASP:HB2	5:Z:149:PHE:CZ	2.32	0.64
2:M:542:VAL:O	2:M:546:LEU:HG	1.96	0.64
3:D:1387:SER:HB3	3:D:1391:GLU:OE2	1.97	0.64
2:C:325:ILE:H	2:C:325:ILE:CD1	2.04	0.64
1:A:78:ILE:HG23	1:A:130:ALA:HB2	1.77	0.64
3:I:806:PHE:H	3:I:832:ARG:CG	2.10	0.64
3:N:719:VAL:O	3:N:721:VAL:HG13	1.97	0.64
5:X:44:GLU:O	5:X:45:ASN:C	2.35	0.64
2:C:12:VAL:HG13	2:C:13:ILE:N	2.09	0.64
1:F:58:ILE:CD1	1:F:140:MET:HB3	2.27	0.64
1:B:151:VAL:N	1:B:169:ALA:HB3	2.10	0.64
3:N:516:ALA:O	3:N:518:PRO:HD3	1.97	0.64
2:H:752:GLY:H	2:H:792:VAL:HB	1.63	0.64
2:H:524:VAL:CG1	2:H:528:GLU:HB2	2.26	0.64
2:M:115:LEU:HA	2:M:375:SER:OG	1.98	0.64
3:I:1344:VAL:O	3:I:1348:LEU:HD13	1.96	0.64
2:M:118:ILE:HG22	2:M:382:ILE:HD13	1.78	0.64
2:C:3:ILE:O	2:C:3:ILE:HD12	1.97	0.64
3:N:1496:GLU:N	3:N:1499:ARG:HH21	1.95	0.64
3:N:1152:GLU:HG3	3:N:1161:GLU:HA	1.79	0.64
2:M:850:ALA:HA	3:N:632:VAL:HG11	1.79	0.64
3:I:782:SER:C	3:I:786:ILE:HG12	2.18	0.64
2:M:333:ILE:HG22	2:M:465:GLY:HA2	1.80	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:483:HIS:CB	3:D:484:PRO:HD3	2.24	0.64
1:B:40:LEU:HD22	1:B:44:LEU:HD11	1.77	0.64
3:N:700:VAL:HG13	3:N:718:PRO:HG2	1.78	0.64
4:O:47:LYS:CA	4:O:54:LEU:HB3	2.28	0.64
2:C:595:LEU:H	2:C:595:LEU:HD22	1.62	0.64
2:H:496:ILE:O	2:H:515:ALA:HB1	1.97	0.64
3:D:982:PHE:HD1	5:X:117:MET:CE	2.11	0.64
3:N:1058:ARG:HH11	3:N:1058:ARG:HG2	1.61	0.64
3:I:984:THR:HG23	3:I:987:GLU:H	1.63	0.64
3:I:886:VAL:O	3:I:890:VAL:HG22	1.97	0.64
1:L:169:ALA:HB1	1:L:171:PHE:CE2	2.32	0.64
2:M:743:VAL:HG11	2:M:755:LEU:HD22	1.79	0.64
3:D:820:GLU:HG3	3:D:836:VAL:HG11	1.79	0.64
2:H:689:VAL:HB	2:H:870:ILE:HB	1.78	0.64
2:M:333:ILE:HG22	2:M:465:GLY:CA	2.27	0.64
3:I:1476:THR:HG23	4:J:21:VAL:CG2	2.25	0.64
2:H:219:GLN:HA	2:H:222:MET:CG	2.27	0.64
3:N:603:LEU:O	3:N:606:ILE:HG22	1.98	0.64
3:I:869:MET:HB2	3:I:871:LYS:HE3	1.79	0.64
3:D:1192:LEU:CD2	3:D:1369:GLU:HB3	2.25	0.64
2:M:468:ARG:HB3	2:M:485:TYR:HB3	1.80	0.64
2:C:1076:VAL:HG21	3:D:752:SER:HA	1.79	0.64
2:M:31:GLN:HG2	2:M:45:GLN:HE22	1.62	0.64
3:D:53:ILE:HB	3:D:86:ARG:HH12	1.62	0.64
2:C:658:GLY:H	2:C:661:SER:HB3	1.63	0.64
2:H:674:VAL:CG2	2:H:871:LEU:HD23	2.27	0.64
1:G:185:ARG:CG	3:I:720:LEU:HG	2.27	0.64
2:C:334:ARG:HD2	2:C:418:LEU:HD21	1.80	0.64
2:H:94:LEU:C	2:H:94:LEU:HD12	2.17	0.64
3:I:1379:VAL:CG1	3:I:1419:PRO:HA	2.28	0.64
3:D:362:GLU:O	3:D:379:ALA:HB1	1.97	0.64
1:G:118:ALA:O	1:G:120:VAL:N	2.30	0.64
2:C:516:ARG:CZ	3:D:1068:LEU:HB2	2.27	0.64
2:H:138:SER:HB2	2:H:410:ILE:HD12	1.78	0.64
2:M:31:GLN:HB3	2:M:45:GLN:OE1	1.97	0.64
3:I:1156:LEU:CD1	3:I:1176:LYS:HE3	2.28	0.64
2:M:577:PRO:HG3	2:M:993:PHE:CE2	2.32	0.64
4:J:80:VAL:HG13	4:J:81:PRO:HD2	1.78	0.64
2:C:193:LEU:O	2:C:197:LEU:HG	1.98	0.64
2:H:683:ASN:HA	2:H:687:ALA:HB3	1.78	0.64
2:H:987:ILE:HG23	3:I:948:THR:CG2	2.26	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1211:MET:SD	3:D:1213:ARG:HG2	2.38	0.64
1:B:173:PRO:O	1:B:201:THR:HA	1.96	0.64
3:D:1379:VAL:HG22	3:D:1398:TRP:NE1	2.13	0.64
2:C:850:ALA:HA	3:D:632:VAL:CG1	2.28	0.64
1:A:122:ILE:HG22	1:A:124:ASN:H	1.62	0.64
1:B:51:THR:HG21	1:B:87:VAL:CG2	2.28	0.64
2:H:393:GLN:HE22	2:H:409:ARG:HH21	1.45	0.64
3:I:214:GLU:HB2	3:I:384:VAL:CG1	2.27	0.64
2:M:252:LYS:HG2	2:M:255:ALA:HB3	1.80	0.64
2:C:1088:LEU:HD21	3:D:613:ARG:HB3	1.78	0.64
3:N:881:LEU:O	3:N:885:ILE:HG12	1.98	0.64
2:C:524:VAL:HG11	2:C:528:GLU:HB2	1.79	0.64
3:D:650:LEU:HD13	3:D:688:TRP:CZ3	2.32	0.64
3:D:886:VAL:O	3:D:890:VAL:HG22	1.97	0.64
2:C:331:ARG:HH12	2:C:427:VAL:CG1	2.10	0.64
3:I:169:TYR:HE1	3:I:395:VAL:HG12	1.63	0.64
2:C:1004:LYS:HG2	3:D:744:GLN:OE1	1.97	0.64
1:L:104:GLU:OE1	1:L:137:ARG:HG2	1.98	0.64
2:H:580:MET:HB3	2:H:584:GLU:CD	2.18	0.64
2:H:838:LYS:HA	2:H:848:VAL:HA	1.79	0.64
2:M:754:ILE:HD12	2:M:754:ILE:N	2.12	0.64
1:K:67:THR:HG22	2:M:627:ARG:NH2	2.13	0.64
3:N:406:ASP:O	3:N:422:ALA:HB1	1.97	0.64
5:Z:99:ARG:HG2	5:Z:99:ARG:HH11	1.62	0.64
3:N:214:GLU:HA	3:N:342:PRO:HA	1.79	0.64
3:N:1290:LEU:HD13	3:N:1307:LYS:HA	1.80	0.64
3:N:109:PRO:O	3:N:111:LYS:HD2	1.98	0.64
2:H:99:GLN:HB3	2:H:110:GLU:HB2	1.80	0.64
3:N:865:THR:HG22	3:N:874:GLU:HG2	1.79	0.64
2:C:252:LYS:HG2	2:C:255:ALA:HB3	1.80	0.64
2:H:673:LEU:HD13	2:H:673:LEU:C	2.19	0.64
2:M:292:ARG:HD2	2:M:299:LYS:CE	2.28	0.64
3:N:1003:VAL:O	3:N:1007:VAL:HG23	1.97	0.64
3:D:159:ARG:HG3	2:H:209:ARG:NH1	2.12	0.64
2:C:1008:ARG:HG2	2:C:1009:SER:N	2.13	0.64
3:I:44:LEU:N	3:I:44:LEU:HD12	2.11	0.64
3:I:358:GLY:N	3:I:385:VAL:HB	2.09	0.64
1:A:58:ILE:HG23	1:A:139:ASN:O	1.98	0.64
3:I:1205:TYR:CD2	3:I:1215:VAL:HG21	2.33	0.64
2:H:366:SER:O	2:H:367:LEU:HG	1.97	0.64
2:M:549:PHE:HB3	2:M:552:HIS:HD2	1.61	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:1240:THR:HG23	5:Y:56:TRP:HH2	1.61	0.64
2:C:17:PRO:HB2	2:C:20:GLU:HB3	1.79	0.64
5:X:99:ARG:HE	5:X:152:VAL:HG21	1.62	0.64
3:D:1493:LYS:HA	3:D:1493:LYS:HE3	1.78	0.64
3:I:50:PHE:O	3:I:89:ARG:HD2	1.97	0.64
3:N:1435:LEU:CD2	3:N:1468:LEU:HD21	2.21	0.64
2:M:165:LEU:CG	2:M:166:PRO:HA	2.23	0.64
3:D:1345:GLU:HA	3:D:1348:LEU:CD2	2.28	0.64
1:A:76:VAL:HA	1:A:79:ILE:HG12	1.80	0.64
2:H:263:ASP:CB	2:H:264:PRO:HD3	2.26	0.64
3:N:701:LEU:O	3:N:747:VAL:HG23	1.98	0.64
2:H:569:VAL:CG1	2:H:996:LYS:HB2	2.28	0.64
3:D:1363:LEU:N	3:D:1363:LEU:HD23	2.11	0.64
2:M:754:ILE:HG13	2:M:791:ARG:NH1	2.12	0.64
2:M:73:LEU:HB2	2:M:93:PRO:O	1.98	0.64
5:Z:127:LYS:HD3	5:Z:128:ALA:N	2.12	0.64
3:D:112:ILE:HD11	3:D:465:LEU:HD21	1.80	0.64
2:M:693:GLU:HA	2:M:696:LYS:HD2	1.79	0.64
2:H:627:ARG:HG3	2:H:628:PHE:H	1.62	0.64
5:Z:35:GLN:HB3	5:Z:39:GLU:OE2	1.98	0.64
2:H:727:PRO:HD2	2:H:787:ASP:HB2	1.78	0.64
1:K:36:LEU:C	1:K:39:PRO:HD2	2.19	0.64
1:L:28:LEU:HD22	1:L:32:PHE:HB3	1.80	0.64
3:N:12:LEU:HD23	3:N:507:ASN:HB2	1.80	0.64
3:N:1434:TRP:HE3	3:N:1455:LYS:HD2	1.64	0.64
2:H:678:PRO:HG3	2:H:873:PRO:HD2	1.80	0.64
3:I:137:PRO:HG2	3:I:453:ASP:H	1.63	0.64
1:B:79:ILE:HG13	1:B:80:LEU:N	2.11	0.64
2:C:129:ILE:H	2:C:129:ILE:CD1	2.10	0.64
1:A:50:GLY:O	1:A:146:ARG:HG3	1.98	0.64
5:Y:75:LEU:HD22	5:Y:77:GLU:OE2	1.97	0.64
3:D:401:TYR:HB2	3:D:444:VAL:O	1.98	0.64
5:X:5:VAL:HG21	5:X:68:ILE:HD12	1.79	0.64
3:D:984:THR:HG23	3:D:986:ARG:H	1.61	0.64
2:H:860:HIS:O	2:H:974:LEU:HD12	1.98	0.64
3:I:1046:GLN:HA	3:I:1052:THR:HA	1.80	0.64
2:M:98:LEU:HD13	2:M:98:LEU:N	2.12	0.63
2:C:987:ILE:HG23	3:D:948:THR:HG21	1.80	0.63
2:M:461:VAL:HG13	2:M:465:GLY:O	1.97	0.63
3:I:161:LEU:HD21	3:I:397:LYS:NZ	2.13	0.63
1:B:56:VAL:O	1:B:165:ILE:HD13	1.97	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:166:GLN:HE21	3:D:396:VAL:HB	1.62	0.63
2:H:157:ARG:CB	2:H:176:VAL:HG21	2.28	0.63
3:D:102:ILE:HG22	3:D:582:LEU:HD13	1.79	0.63
3:N:484:PRO:HB3	3:N:488:ARG:NE	2.13	0.63
3:I:1426:LYS:HD3	3:I:1429:LEU:HD22	1.80	0.63
5:Y:95:LEU:HD12	5:Y:95:LEU:H	1.62	0.63
3:I:897:TRP:HA	3:I:900:ILE:HD12	1.79	0.63
3:I:793:THR:HG21	3:I:906:GLN:HG2	1.80	0.63
2:H:31:GLN:HG3	2:H:40:GLU:HG3	1.79	0.63
3:D:804:LEU:HD12	3:D:804:LEU:N	2.13	0.63
2:H:939:ARG:NH1	2:H:982:PRO:HD2	2.12	0.63
3:I:719:VAL:O	3:I:721:VAL:HG22	1.99	0.63
3:N:974:ILE:HD11	5:Z:113:LEU:HD11	1.80	0.63
2:C:710:ILE:HD13	2:C:790:LEU:HD12	1.80	0.63
1:A:44:LEU:HD22	1:A:177:VAL:HG21	1.81	0.63
3:I:1209:LEU:CD1	3:I:1210:SER:H	2.11	0.63
3:D:139:GLY:H	3:D:147:VAL:HG21	1.64	0.63
3:D:1421:LEU:O	3:D:1421:LEU:HD12	1.97	0.63
1:L:75:VAL:O	1:L:79:ILE:HG22	1.98	0.63
3:I:18:ILE:HD12	3:I:516:ALA:HB3	1.80	0.63
3:I:1311:LEU:HD22	3:I:1326:THR:HA	1.78	0.63
1:G:83:LYS:HD3	1:G:167:VAL:HG12	1.80	0.63
3:I:902:LEU:H	3:I:902:LEU:HD23	1.63	0.63
3:D:1097:LYS:HA	3:D:1100:ASP:OD2	1.99	0.63
3:N:109:PRO:HB3	3:N:494:LYS:NZ	2.12	0.63
2:H:40:GLU:O	2:H:41:ASN:HB2	1.97	0.63
5:X:73:VAL:HG12	5:X:74:ILE:H	1.63	0.63
2:C:98:LEU:HD22	2:C:98:LEU:C	2.18	0.63
4:O:73:LEU:HD22	4:O:73:LEU:N	2.11	0.63
1:A:124:ASN:ND2	1:A:127:LEU:HD22	2.14	0.63
1:A:102:LYS:HB3	1:A:138:LEU:O	1.99	0.63
3:D:897:TRP:HA	3:D:900:ILE:HD12	1.81	0.63
2:H:806:LEU:HB2	2:H:822:VAL:CG2	2.27	0.63
3:N:1232:PRO:O	3:N:1235:GLN:HG2	1.98	0.63
2:M:161:SER:HB3	2:M:173:ASP:OD2	1.98	0.63
3:D:553:ARG:HD2	3:D:557:LEU:HD11	1.80	0.63
3:N:1058:ARG:HG2	3:N:1058:ARG:NH1	2.13	0.63
3:I:1458:GLU:HB3	3:I:1460:ILE:HD12	1.79	0.63
3:N:1310:ARG:CB	3:N:1327:ARG:HH21	2.04	0.63
2:M:151:ASP:HB3	2:M:154:ARG:O	1.98	0.63
2:H:707:ARG:HD2	2:H:824:ARG:NH1	2.14	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:628:ARG:HG3	3:D:628:ARG:NH1	2.13	0.63
2:H:584:GLU:CD	2:H:584:GLU:H	2.00	0.63
3:I:470:LEU:HB2	3:I:503:LEU:HD21	1.80	0.63
1:A:41:ARG:NH1	1:A:177:VAL:HB	2.13	0.63
3:I:710:ARG:HH22	3:I:1210:SER:HB2	1.64	0.63
2:C:430:VAL:HG13	3:D:1075:HIS:ND1	2.13	0.63
3:D:550:ARG:HG2	3:D:553:ARG:NH2	2.14	0.63
3:D:922:LEU:HD22	3:D:926:LYS:HD3	1.80	0.63
3:D:1487:VAL:HG11	3:D:1492:LEU:HD23	1.79	0.63
3:N:650:LEU:HD12	3:N:691:LEU:HD13	1.80	0.63
2:C:560:MET:HE2	2:C:560:MET:HA	1.78	0.63
2:H:1094:ALA:C	2:H:1095:LEU:HD13	2.17	0.63
2:C:292:ARG:HG2	2:C:299:LYS:HG2	1.81	0.63
2:C:292:ARG:CG	2:C:299:LYS:HG2	2.29	0.63
1:L:162:ILE:HG13	1:L:163:ASN:N	2.12	0.63
3:D:1209:LEU:HD12	3:D:1215:VAL:HG13	1.80	0.63
3:D:133:ILE:O	3:D:152:LEU:HB2	1.98	0.63
3:I:804:LEU:HD11	3:I:831:GLY:CA	2.26	0.63
3:I:630:VAL:O	3:I:726:ILE:HD12	1.97	0.63
3:D:147:VAL:HG22	3:D:149:LYS:H	1.62	0.63
4:O:40:LEU:HD13	4:O:72:ARG:NH2	2.12	0.63
3:I:1426:LYS:HD3	3:I:1429:LEU:CD2	2.28	0.63
5:Y:19:LEU:HD11	5:Y:62:ILE:CD1	2.29	0.63
3:N:631:ILE:HD13	3:N:631:ILE:H	1.64	0.63
1:A:8:ALA:HB1	1:B:224:TYR:HE1	1.64	0.63
3:D:948:THR:C	3:D:949:ILE:HD12	2.18	0.63
2:H:26:TYR:CE2	2:H:30:LEU:HD21	2.33	0.63
2:C:267:TYR:HB2	2:C:272:ALA:HB3	1.81	0.63
3:D:809:PRO:O	3:D:812:ALA:HB3	1.98	0.63
1:F:41:ARG:O	1:F:45:LEU:HD13	1.98	0.63
3:D:1323:GLN:O	3:D:1325:LEU:HD12	1.98	0.63
5:X:45:ASN:O	5:X:47:GLY:N	2.31	0.63
2:C:205:GLU:O	2:C:209:ARG:HD2	1.99	0.63
5:Z:109:GLU:O	5:Z:110:ALA:O	2.17	0.63
2:H:948:GLU:OE1	2:H:955:PRO:HA	1.99	0.63
2:M:1025:ALA:O	2:M:1026:GLN:HG3	1.98	0.63
3:I:153:LEU:HD12	3:I:153:LEU:N	2.12	0.63
3:D:8:VAL:HG12	3:D:1434:TRP:CH2	2.33	0.63
3:I:30:GLU:HB3	3:I:40:GLU:HB3	1.81	0.63
2:M:256:TYR:CZ	2:M:261:ILE:HG13	2.34	0.63
3:D:783:ARG:HE	3:D:1029:ARG:HD2	1.61	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:983:ILE:HG22	3:N:944:THR:HA	1.80	0.63
3:N:800:LYS:HA	3:N:829:VAL:HG13	1.80	0.63
3:N:1434:TRP:CE3	3:N:1457:ASP:HB2	2.34	0.63
3:N:119:SER:HB3	3:N:123:LEU:CB	2.24	0.63
2:H:705:ILE:HG22	2:H:706:GLU:N	2.13	0.63
3:I:465:LEU:HD22	3:I:509:PRO:HB2	1.81	0.63
3:D:135:LEU:HD11	3:D:147:VAL:CG2	2.29	0.63
1:A:89:PHE:CD2	1:A:146:ARG:HD2	2.34	0.63
5:X:132:HIS:HB3	5:X:136:ASP:OD2	1.99	0.63
3:I:1115:THR:O	3:I:1115:THR:HG22	1.98	0.63
3:I:811:GLU:HG2	3:I:815:ALA:HB2	1.81	0.63
3:I:1182:GLU:O	3:I:1183:ILE:HG23	1.98	0.63
3:N:586:ARG:HH21	3:N:1444:THR:HG21	1.64	0.63
2:H:964:LYS:O	2:H:968:LEU:HG	1.99	0.63
3:I:125:GLN:HE22	3:I:587:ARG:HH21	1.47	0.63
1:L:29:GLU:OE1	1:L:30:ARG:HG3	1.97	0.63
1:A:26:GLU:OE1	1:A:194:LYS:HG3	1.97	0.63
2:H:1067:TYR:CE1	2:H:1071:ILE:HD11	2.34	0.63
2:H:805:ARG:HG3	2:H:823:VAL:HG22	1.80	0.63
1:B:62:LEU:HD13	1:B:63:HIS:H	1.63	0.63
1:K:35:THR:O	1:K:39:PRO:HG2	1.99	0.63
3:D:829:VAL:HG12	3:D:830:ALA:N	2.14	0.63
3:D:39:PRO:HG2	3:D:45:PHE:O	1.99	0.63
3:D:1256:LEU:O	3:D:1256:LEU:HD13	1.98	0.63
1:A:32:PHE:CZ	1:B:43:ILE:HD12	2.33	0.63
2:M:679:PHE:H	2:M:683:ASN:HD21	1.46	0.63
2:H:203:ASP:HB2	2:H:206:THR:HG22	1.78	0.63
2:C:141:HIS:CB	2:C:418:LEU:HD23	2.27	0.63
3:I:1147:ARG:HB2	3:I:1166:LEU:HD21	1.79	0.63
3:I:366:LYS:HD2	3:I:366:LYS:N	2.12	0.63
2:H:1066:ALA:O	2:H:1070:ILE:HG12	1.98	0.63
5:X:115:THR:OG1	5:X:116:PRO:HD3	1.98	0.63
1:F:225:PHE:CE2	1:G:25:LEU:HD22	2.34	0.63
3:D:1132:LEU:H	3:D:1132:LEU:HD12	1.63	0.63
3:I:1312:LEU:HD21	3:I:1327:ARG:NE	2.13	0.63
2:C:1043:TYR:HB3	3:D:763:MET:HE1	1.80	0.63
3:D:1121:PRO:HD2	3:D:1346:ARG:HH21	1.64	0.63
3:N:1330:ILE:HG21	3:N:1335:LEU:HD13	1.81	0.63
3:D:25:GLU:HG3	3:D:92:HIS:O	1.98	0.63
5:Y:104:VAL:HG13	5:Y:119:ILE:HB	1.79	0.63
1:G:58:ILE:HG23	1:G:139:ASN:O	1.98	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:996:TRP:O	3:D:1000:THR:HG22	1.99	0.63
2:C:683:ASN:HA	2:C:687:ALA:HB3	1.81	0.63
3:D:835:SER:H	3:D:838:ARG:NE	1.97	0.63
3:N:135:LEU:HD12	3:N:136:ASP:H	1.64	0.63
3:I:177:ALA:HB3	3:I:205:TYR:OH	1.99	0.63
2:C:597:ALA:HB2	2:C:655:LEU:HD21	1.80	0.63
2:M:726:ILE:HD13	2:M:730:SER:H	1.64	0.63
3:D:669:ASN:O	3:D:672:ALA:HB3	1.99	0.63
2:M:135:VAL:O	2:M:392:SER:HA	1.99	0.63
3:N:1263:PHE:HE2	3:N:1371:VAL:HG11	1.63	0.63
3:D:1283:ILE:HG22	3:D:1284:GLU:H	1.64	0.63
3:N:669:ASN:OD1	3:N:672:ALA:HB2	1.97	0.63
5:Y:104:VAL:HG22	5:Y:119:ILE:HG13	1.81	0.63
3:N:200:ASP:CG	3:N:201:GLY:H	2.02	0.63
2:H:48:PHE:O	2:H:52:PHE:HB2	1.98	0.62
2:M:755:LEU:HB2	2:M:790:LEU:CD2	2.29	0.62
3:I:636:GLN:HE21	3:I:637:LEU:HB2	1.64	0.62
3:N:1197:ARG:HA	3:N:1396:GLU:HG3	1.80	0.62
1:B:74:ASP:HB2	3:D:872:ARG:NH2	2.08	0.62
3:N:636:GLN:NE2	3:N:637:LEU:H	1.97	0.62
1:F:165:ILE:H	1:F:165:ILE:HD12	1.63	0.62
1:K:101:LEU:HG	1:K:114:PHE:HA	1.81	0.62
2:M:700:TYR:HB3	2:M:833:LEU:HD13	1.80	0.62
2:C:713:ARG:HE	2:C:758:ARG:HH22	1.44	0.62
2:H:679:PHE:CD2	2:H:680:ASP:N	2.63	0.62
3:I:1200:VAL:HG22	3:I:1373:ARG:NH1	2.13	0.62
3:D:361:VAL:HG12	3:D:383:GLY:N	2.14	0.62
2:M:754:ILE:HG13	2:M:791:ARG:HH12	1.64	0.62
3:I:84:ILE:HG22	3:I:87:ARG:NH2	2.14	0.62
3:N:1491:THR:HG23	4:O:92:LEU:HD12	1.80	0.62
3:N:367:ILE:HD11	3:N:379:ALA:HA	1.81	0.62
2:C:801:VAL:HG22	2:C:826:TYR:O	1.99	0.62
3:I:1463:LYS:O	3:I:1466:VAL:HB	1.99	0.62
3:N:1377:LYS:O	3:N:1377:LYS:HG2	1.98	0.62
3:I:513:ILE:HD12	3:I:513:ILE:O	1.99	0.62
3:N:400:VAL:HG22	3:N:402:PRO:HD3	1.80	0.62
5:X:99:ARG:HE	5:X:152:VAL:HG11	1.64	0.62
1:F:62:LEU:H	1:F:62:LEU:HD12	1.64	0.62
3:I:1044:LEU:HD22	3:I:1053:PHE:HB3	1.81	0.62
3:D:971:LEU:HD13	3:D:995:LEU:HD23	1.81	0.62
2:H:69:LEU:HD12	2:H:110:GLU:HG3	1.81	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:261:ILE:HG13	2:H:262:ALA:H	1.64	0.62
2:C:94:LEU:C	2:C:94:LEU:HD22	2.20	0.62
4:O:54:LEU:HG	4:O:58:PRO:HG3	1.81	0.62
3:D:1282:ARG:HH21	3:D:1315:ASP:HB3	1.62	0.62
3:N:1485:GLN:HE21	4:O:79:LEU:H	1.46	0.62
1:K:9:PRO:HG3	1:K:27:PRO:O	1.99	0.62
1:F:26:GLU:HB2	1:F:194:LYS:HA	1.80	0.62
1:K:52:ALA:HB1	1:K:170:VAL:HG22	1.81	0.62
3:I:895:VAL:HG13	3:I:921:ARG:HH12	1.64	0.62
3:N:1093:TYR:O	3:N:1096:ARG:HB2	2.00	0.62
1:K:96:THR:HG22	1:K:145:ASP:OD2	1.98	0.62
5:Y:41:ASP:OD1	5:Y:45:ASN:ND2	2.31	0.62
1:F:55:SER:HA	1:F:167:VAL:HG23	1.80	0.62
3:I:1042:ARG:HD2	3:I:1061:PHE:CE1	2.30	0.62
2:H:877:PRO:HG2	2:H:878:SER:H	1.64	0.62
3:N:1106:VAL:HG22	3:N:1220:ALA:HA	1.81	0.62
2:M:331:ARG:HH22	2:M:427:VAL:HG21	1.63	0.62
2:C:50:GLU:HG2	2:C:51:THR:N	2.13	0.62
1:B:185:ARG:HG2	1:B:186:LEU:N	2.13	0.62
3:D:704:ARG:HE	3:D:705:ALA:H	1.46	0.62
1:L:57:TYR:C	1:L:58:ILE:HD12	2.18	0.62
1:A:225:PHE:CE2	1:B:25:LEU:HD13	2.33	0.62
2:C:944:LEU:HD11	2:C:963:LEU:CD2	2.30	0.62
1:G:68:ILE:HD12	1:G:68:ILE:N	2.14	0.62
3:N:1045:MET:SD	3:N:1073:SER:HA	2.38	0.62
3:D:731:LEU:HD22	3:D:779:ALA:HA	1.81	0.62
4:J:86:GLN:O	4:J:90:GLU:HG3	1.98	0.62
3:D:521:PRO:HB2	3:D:524:LEU:HD13	1.80	0.62
2:H:885:ILE:HD12	3:I:949:ILE:HG22	1.80	0.62
2:H:939:ARG:CZ	2:H:982:PRO:HD2	2.28	0.62
1:G:52:ALA:HB2	1:G:170:VAL:C	2.19	0.62
3:D:1231:GLU:HB3	3:D:1232:PRO:HD3	1.81	0.62
2:C:1029:GLY:O	3:D:622:ARG:HD2	1.99	0.62
1:L:70:GLY:O	1:L:132:LEU:HA	2.00	0.62
2:C:673:LEU:O	2:C:869:VAL:HG12	2.00	0.62
3:I:44:LEU:CD1	3:I:44:LEU:H	2.10	0.62
3:I:1485:GLN:HE21	4:J:79:LEU:H	1.47	0.62
2:C:666:LEU:HG	2:C:668:LEU:HD11	1.81	0.62
5:Z:93:ASP:HB3	5:Z:98:GLU:H	1.63	0.62
3:D:12:LEU:H	3:D:12:LEU:HD12	1.65	0.62
2:M:585:GLU:O	2:M:588:VAL:HG22	2.00	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Y:41:ASP:CG	5:Y:48:TYR:CG	2.72	0.62
3:I:1434:TRP:CZ3	3:I:1457:ASP:HB2	2.35	0.62
2:H:54:ILE:HD13	2:H:355:VAL:HG22	1.82	0.62
2:H:461:VAL:HG13	2:H:465:GLY:O	1.99	0.62
2:C:66:LEU:O	2:C:66:LEU:HG	1.99	0.62
3:I:843:PHE:CE1	3:I:864:VAL:HG11	2.34	0.62
1:F:141:GLU:HG3	1:F:161:ARG:NH1	2.15	0.62
3:D:1149:LEU:HD21	3:D:1166:LEU:HD22	1.80	0.62
2:C:752:GLY:H	2:C:792:VAL:HB	1.63	0.62
3:D:1108:ARG:CZ	3:D:1198:TYR:O	2.47	0.62
3:N:600:LEU:H	3:N:600:LEU:CD1	2.12	0.62
3:N:1256:LEU:HD22	3:N:1259:VAL:HB	1.81	0.62
5:X:96:SER:OG	5:X:98:GLU:HB2	1.98	0.62
1:B:61:VAL:HG23	1:B:68:ILE:HD11	1.80	0.62
3:D:1062:ARG:HD3	3:D:1062:ARG:O	1.99	0.62
3:D:1156:LEU:HD12	3:D:1177:ALA:HB2	1.81	0.62
3:I:562:ALA:N	3:I:563:PRO:HD3	2.13	0.62
2:H:726:ILE:HG22	2:H:728:HIS:H	1.63	0.62
3:I:800:LYS:HZ3	3:I:830:ALA:HB3	1.63	0.62
1:A:85:LEU:HA	1:A:124:ASN:ND2	2.13	0.62
2:H:15:LEU:N	2:H:15:LEU:HD12	2.13	0.62
1:B:51:THR:HG21	1:B:87:VAL:HG23	1.81	0.62
2:M:1050:GLN:HA	2:M:1053:LEU:CG	2.30	0.62
1:K:25:LEU:HD23	1:K:28:LEU:HD21	1.82	0.62
2:C:910:LYS:O	2:C:914:ILE:HD13	1.99	0.62
1:G:219:ARG:HH11	1:G:219:ARG:CB	2.13	0.62
2:M:39:ARG:NE	2:M:39:ARG:HA	2.15	0.62
3:N:1256:LEU:C	3:N:1256:LEU:HD13	2.20	0.62
4:O:38:THR:HG21	4:O:45:ARG:HH21	1.63	0.62
3:I:1264:GLU:OE1	3:I:1425:THR:HB	2.00	0.62
4:O:31:LEU:HD12	4:O:32:ARG:H	1.64	0.62
5:X:16:MET:SD	5:X:69:LEU:HD13	2.40	0.62
1:A:152:PRO:HD2	1:A:155:LYS:HD2	1.82	0.62
3:N:887:ALA:HB1	3:N:893:GLU:HG3	1.82	0.62
1:G:180:GLN:HE21	1:G:180:GLN:HA	1.64	0.62
2:C:468:ARG:HD3	2:C:485:TYR:O	1.99	0.62
2:C:704:HIS:O	2:C:828:ALA:HB1	2.00	0.62
3:I:925:GLU:HG3	3:I:926:LYS:N	2.14	0.62
3:N:802:ALA:O	3:N:804:LEU:N	2.32	0.62
1:K:86:VAL:HG12	1:K:124:ASN:HD22	1.63	0.62
3:D:1472:ILE:HD13	3:D:1472:ILE:N	2.04	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:278:GLU:HG3	2:M:283:ILE:HD12	1.81	0.62
2:H:154:ARG:HD2	2:H:156:GLY:HA3	1.80	0.62
1:L:58:ILE:N	1:L:58:ILE:HD12	2.14	0.62
1:L:99:LEU:HD23	1:L:115:LEU:HD12	1.82	0.62
2:M:1055:LEU:HG	2:M:1079:PRO:HG2	1.82	0.62
1:A:8:ALA:HB1	1:B:224:TYR:CE1	2.34	0.62
3:D:1031:ASN:O	3:D:1035:ILE:HG12	1.99	0.62
1:K:39:PRO:CG	1:L:39:PRO:HG3	2.30	0.62
3:N:834:THR:HB	3:N:874:GLU:OE1	2.00	0.62
1:B:177:VAL:HG12	1:B:199:ILE:HG13	1.82	0.62
1:B:184:THR:O	1:B:192:LEU:HG	1.99	0.62
2:C:12:VAL:HG22	2:C:13:ILE:N	2.13	0.62
1:F:56:VAL:CG1	1:F:140:MET:HB2	2.29	0.62
2:H:994:ILE:HG22	2:H:995:MET:H	1.64	0.62
1:K:101:LEU:HD12	1:K:114:PHE:CD1	2.35	0.62
3:N:1344:VAL:O	3:N:1348:LEU:HD22	2.00	0.62
2:C:69:LEU:HD11	2:C:99:GLN:CG	2.29	0.62
3:D:792:ILE:O	3:D:878:GLY:HA3	1.99	0.62
1:K:72:LYS:HZ2	2:M:644:VAL:HG12	1.63	0.62
2:C:1073:GLY:HA3	3:D:659:LYS:HE2	1.80	0.62
3:I:613:ARG:NH1	3:I:613:ARG:HA	2.15	0.62
3:D:879:ARG:HH21	3:D:904:VAL:N	1.97	0.62
3:D:1262:LEU:HD21	3:D:1351:GLU:HG3	1.81	0.62
1:G:34:VAL:HG22	1:G:181:VAL:HG21	1.82	0.62
2:H:470:PRO:HB2	2:H:534:VAL:HG21	1.82	0.62
2:C:1056:LYS:HA	3:D:624:ASP:OD2	1.99	0.62
3:D:116:LEU:HD22	3:D:468:LEU:HD12	1.81	0.62
1:A:45:LEU:HG	1:A:174:VAL:HG11	1.81	0.62
2:H:111:ASP:O	2:H:113:VAL:HG23	2.00	0.62
3:N:1101:VAL:HG21	3:N:1424:VAL:HG23	1.82	0.62
3:D:785:ILE:HD12	3:D:785:ILE:H	1.64	0.62
2:M:860:HIS:HA	2:M:866:PRO:HA	1.81	0.62
2:M:861:LEU:CD2	2:M:862:PRO:HD2	2.30	0.62
3:N:841:TYR:HB2	3:N:864:VAL:HG13	1.81	0.62
3:D:814:ALA:HA	3:D:817:GLU:OE1	2.00	0.62
1:G:186:LEU:CB	1:G:192:LEU:HD11	2.29	0.62
3:I:759:ALA:O	3:I:763:MET:HB3	1.99	0.62
3:D:1208:ASP:O	3:D:1215:VAL:HG22	1.99	0.62
2:H:196:LEU:O	2:H:200:LEU:HG	2.00	0.62
2:H:165:LEU:HB3	2:H:265:ARG:HE	1.63	0.62
3:D:563:PRO:HA	2:H:223:ASP:CB	2.27	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:88:ARG:NH1	1:K:121:GLU:HB3	2.11	0.62
2:H:636:ALA:HB2	2:H:703:ILE:HD13	1.81	0.62
4:O:70:THR:CG2	4:O:72:ARG:HG3	2.29	0.62
5:X:136:ASP:O	5:X:150:ARG:HA	1.99	0.62
2:M:118:ILE:O	2:M:118:ILE:HG13	2.00	0.62
1:G:195:LEU:HD22	1:G:196:THR:N	2.14	0.62
3:N:659:LYS:O	3:N:659:LYS:HE3	1.99	0.62
5:X:61:ARG:O	5:X:65:LEU:HG	1.99	0.62
3:N:482:LYS:HZ3	3:N:1389:LEU:HD21	1.65	0.61
3:I:141:ILE:HD11	3:I:432:TYR:HB2	1.82	0.61
2:M:257:VAL:HG12	2:M:263:ASP:CG	2.20	0.61
2:M:260:LEU:HB2	2:M:291:ALA:HB1	1.82	0.61
2:H:193:LEU:H	2:H:193:LEU:CD1	2.13	0.61
2:H:170:PRO:HG2	2:H:258:TYR:CE2	2.35	0.61
3:N:705:ALA:CB	3:N:706:PRO:HD3	2.25	0.61
2:M:12:VAL:HG22	2:M:13:ILE:N	2.15	0.61
2:M:8:ARG:HB2	2:M:907:ASP:OD1	1.99	0.61
3:I:1166:LEU:N	3:I:1166:LEU:HD23	2.15	0.61
3:D:135:LEU:HD11	3:D:147:VAL:HG23	1.81	0.61
3:N:930:LEU:HD12	3:N:934:LEU:HD21	1.80	0.61
2:C:670:GLN:HB2	2:C:700:TYR:CE1	2.35	0.61
2:H:395:LYS:HE3	2:H:407:LYS:HE2	1.81	0.61
2:M:705:ILE:HD12	2:M:705:ILE:N	2.14	0.61
3:N:1235:GLN:OE1	5:Z:42:LEU:HD13	2.00	0.61
2:M:343:GLN:HG2	2:M:385:PHE:HB2	1.82	0.61
3:I:25:GLU:HB2	3:I:92:HIS:CE1	2.34	0.61
2:C:163:ILE:HD12	2:C:171:TRP:HE1	1.65	0.61
3:D:477:LEU:HD21	3:D:495:ARG:HD3	1.82	0.61
3:I:465:LEU:HD22	3:I:509:PRO:O	1.99	0.61
3:I:1481:VAL:HG13	4:J:18:ARG:NH2	2.16	0.61
2:H:516:ARG:HG2	2:H:516:ARG:O	1.99	0.61
3:I:1003:VAL:O	3:I:1007:VAL:HG23	2.01	0.61
3:I:26:VAL:HG22	3:I:49:ILE:CD1	2.29	0.61
2:H:943:VAL:HG13	2:H:944:LEU:N	2.15	0.61
2:C:549:PHE:CD2	2:C:886:LEU:HB3	2.35	0.61
2:C:196:LEU:HG	2:C:238:LEU:HD11	1.80	0.61
3:D:843:PHE:CE1	3:D:864:VAL:HG11	2.33	0.61
2:M:283:ILE:HG23	2:M:284:ARG:N	2.07	0.61
2:H:417:GLY:C	2:H:418:LEU:HD12	2.19	0.61
2:C:73:LEU:HD23	2:C:94:LEU:CA	2.29	0.61
3:I:434:ARG:HG3	3:I:435:VAL:N	2.13	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:E:54:LEU:HG	4:E:58:PRO:HB3	1.82	0.61
3:I:805:GLU:HA	3:I:832:ARG:HG3	1.82	0.61
1:G:124:ASN:N	1:G:125:PRO:HD3	2.15	0.61
2:H:499:ALA:HB2	2:H:533:ASP:HB2	1.81	0.61
1:F:197:LEU:CD2	1:F:197:LEU:N	2.63	0.61
2:H:439:CYS:HB3	2:H:442:GLU:HB2	1.81	0.61
3:D:792:ILE:HG23	3:D:793:THR:N	2.14	0.61
1:G:71:VAL:CG1	1:G:73:GLU:HG2	2.29	0.61
1:F:10:VAL:HG11	1:G:229:GLN:HE21	1.66	0.61
5:X:93:ASP:HB3	5:X:96:SER:HB3	1.83	0.61
2:M:209:ARG:HB3	2:M:210:GLU:OE2	2.01	0.61
3:I:115:LEU:HD23	3:I:115:LEU:O	2.00	0.61
3:N:951:ILE:HG12	3:N:1062:ARG:HD3	1.82	0.61
3:N:1155:VAL:HG13	3:N:1182:GLU:HB3	1.82	0.61
3:D:639:LEU:HD12	3:D:640:HIS:N	2.15	0.61
3:N:481:MET:SD	3:N:493:ARG:HA	2.40	0.61
3:N:798:GLU:CD	3:N:828:LYS:HZ2	2.03	0.61
2:C:252:LYS:HG2	2:C:252:LYS:O	1.98	0.61
2:M:1031:ARG:HG2	2:M:1032:PHE:H	1.65	0.61
1:F:151:VAL:N	1:F:169:ALA:HB3	2.15	0.61
1:F:28:LEU:HD22	1:F:32:PHE:HB3	1.82	0.61
2:H:1076:VAL:CG2	3:I:752:SER:HA	2.31	0.61
3:N:1108:ARG:HG2	3:N:1108:ARG:O	2.00	0.61
3:I:133:ILE:HD12	3:I:158:TYR:CD2	2.36	0.61
2:H:300:ASP:OD2	2:H:303:PHE:HB2	2.00	0.61
1:B:176:ARG:HG2	1:B:177:VAL:H	1.65	0.61
2:C:50:GLU:HG2	2:C:51:THR:HG23	1.82	0.61
3:I:807:ALA:HB2	3:I:833:GLU:OE2	1.99	0.61
2:M:545:ASN:OD1	2:M:905:ILE:HG12	2.00	0.61
3:I:887:ALA:HB1	3:I:893:GLU:HG3	1.81	0.61
2:H:390:GLN:CD	2:H:390:GLN:H	2.03	0.61
3:I:415:VAL:HG12	3:I:416:ALA:N	2.15	0.61
3:N:834:THR:CG2	3:N:839:LEU:HD21	2.31	0.61
2:C:195:LEU:HD21	2:C:238:LEU:HA	1.82	0.61
3:I:1099:VAL:HG22	3:I:1226:ALA:HB1	1.82	0.61
3:D:1216:SER:OG	4:E:16:LYS:HB2	2.01	0.61
3:I:179:VAL:CG1	3:I:183:GLU:HB3	2.30	0.61
2:M:535:SER:O	2:M:538:GLN:HG2	2.01	0.61
2:C:118:ILE:HD12	2:C:119:PRO:O	1.99	0.61
2:C:583:LEU:O	2:C:587:VAL:HG23	1.99	0.61
2:H:329:GLY:CA	2:H:489:THR:HG23	2.30	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:X:89:VAL:CG1	5:X:151:VAL:HG13	2.30	0.61
3:I:15:PRO:HA	3:I:18:ILE:CD1	2.31	0.61
2:C:639:GLN:O	2:C:641:PRO:HD3	2.01	0.61
1:L:165:ILE:HD12	1:L:165:ILE:O	2.00	0.61
3:I:679:ARG:O	3:I:679:ARG:CZ	2.48	0.61
2:H:1068:GLU:HG2	2:H:1072:LYS:CD	2.30	0.61
3:I:997:THR:HG21	5:Y:61:ARG:NH1	2.15	0.61
3:I:100:ALA:HB3	3:I:575:GLN:NE2	2.15	0.61
2:M:374:ASN:N	2:M:374:ASN:ND2	2.49	0.61
2:C:194:VAL:HA	2:C:197:LEU:HD12	1.82	0.61
2:C:471:TYR:O	2:C:483:VAL:HG13	2.00	0.61
2:C:1046:ALA:HB1	3:D:1471:LEU:HG	1.82	0.61
1:A:79:ILE:HG13	1:A:80:LEU:N	2.14	0.61
3:D:701:LEU:O	3:D:747:VAL:HA	2.00	0.61
1:L:58:ILE:HG13	1:L:140:MET:HB3	1.80	0.61
3:N:698:LYS:HD3	3:N:756:GLN:HG2	1.83	0.61
2:M:470:PRO:HD3	2:M:485:TYR:CE2	2.35	0.61
1:A:206:THR:H	1:A:209:GLU:HG3	1.65	0.61
2:C:516:ARG:NH2	3:D:1067:VAL:HG23	2.15	0.61
3:N:105:VAL:HG22	3:N:112:ILE:HG21	1.81	0.61
2:M:44:ILE:HD12	2:M:44:ILE:N	2.16	0.61
3:D:1333:HIS:ND1	3:D:1421:LEU:HD11	2.15	0.61
2:C:943:VAL:HG23	2:C:985:GLY:H	1.66	0.61
3:D:650:LEU:HD12	3:D:691:LEU:HD22	1.81	0.61
2:H:585:GLU:O	2:H:588:VAL:HG22	1.99	0.61
2:H:1053:LEU:HD12	2:H:1054:THR:OG1	1.99	0.61
3:N:356:PRO:HG2	3:N:359:ALA:HB2	1.83	0.61
2:C:918:LEU:HD11	2:C:968:LEU:HD23	1.82	0.61
2:H:722:ILE:CD1	2:H:741:GLY:HA3	2.30	0.61
3:I:104:PHE:O	3:I:112:ILE:HG22	2.00	0.61
1:B:124:ASN:HD22	1:B:127:LEU:HD12	1.63	0.61
2:M:508:ILE:HD13	2:M:529:VAL:HG21	1.82	0.61
1:L:219:ARG:HB3	1:L:219:ARG:NH1	2.12	0.61
2:C:713:ARG:HG3	2:C:758:ARG:HH22	1.64	0.61
3:D:684:LYS:HD3	3:D:684:LYS:H	1.65	0.61
3:N:104:PHE:O	3:N:112:ILE:HG22	1.99	0.61
3:N:908:LYS:HG3	3:N:909:ASN:N	2.13	0.61
1:L:158:ILE:O	1:L:166:PRO:HG3	1.99	0.61
3:I:978:TYR:HB2	3:I:983:LEU:HD12	1.82	0.61
3:D:1042:ARG:HD3	3:D:1045:MET:SD	2.40	0.61
3:I:681:ARG:H	3:I:681:ARG:HD2	1.65	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:649:ALA:O	3:D:653:PHE:HB2	2.01	0.61
2:C:367:LEU:HD22	2:C:371:LYS:HG2	1.83	0.61
2:M:107:LEU:HD11	2:M:109:LYS:HB2	1.82	0.61
2:C:120:LEU:HD23	2:C:121:MET:H	1.66	0.61
2:M:1031:ARG:HH22	3:N:619:LEU:HD22	1.65	0.61
3:N:520:LEU:CD2	3:N:524:LEU:HD23	2.30	0.61
3:I:1231:GLU:HB3	3:I:1232:PRO:HD3	1.83	0.61
1:B:185:ARG:HG2	1:B:186:LEU:H	1.66	0.61
4:O:54:LEU:O	4:O:54:LEU:HD23	2.00	0.61
3:I:655:PRO:HA	3:I:658:LEU:HD12	1.83	0.61
1:F:58:ILE:HG13	1:F:140:MET:HB3	1.82	0.61
2:H:118:ILE:H	2:H:118:ILE:CD1	2.12	0.61
3:D:355:VAL:CG1	3:D:356:PRO:HD2	2.31	0.61
2:C:154:ARG:HH22	2:C:178:PRO:HG3	1.64	0.61
3:N:464:LEU:O	3:N:464:LEU:HD22	2.01	0.61
2:M:89:THR:HG21	2:M:383:ARG:NH2	2.16	0.61
2:H:339:LEU:HD13	2:H:391:LEU:HD11	1.82	0.61
3:I:26:VAL:HG13	3:I:42:ASP:O	1.99	0.61
3:I:1424:VAL:HG13	3:I:1425:THR:N	2.15	0.61
2:H:1107:ASN:HB3	3:I:2:LYS:HD2	1.83	0.61
3:I:679:ARG:NE	3:I:679:ARG:O	2.34	0.61
3:I:1279:GLY:HA3	3:I:1296:SER:OG	2.00	0.61
2:C:791:ARG:O	2:C:793:PRO:HD3	2.01	0.61
3:N:1443:THR:O	3:N:1447:LEU:HD12	2.01	0.61
5:Z:70:SER:O	5:Z:72:ALA:N	2.29	0.61
2:M:971:LYS:HB3	2:M:986:PRO:CB	2.31	0.61
3:N:1189:ARG:HH11	3:N:1189:ARG:HG3	1.64	0.61
3:N:127:LEU:HG	3:N:128:TYR:N	2.16	0.61
3:D:105:VAL:HG13	3:D:124:GLU:HG2	1.81	0.61
1:F:101:LEU:HD12	1:F:114:PHE:CD1	2.36	0.61
2:M:730:SER:O	2:M:734:LEU:HD13	2.01	0.61
1:A:44:LEU:HD11	1:A:199:ILE:CD1	2.31	0.61
5:Z:29:ILE:HG22	5:Z:55:MET:HG2	1.83	0.61
3:I:123:LEU:HD21	3:I:152:LEU:HD21	1.83	0.61
3:N:1363:LEU:HD23	3:N:1363:LEU:N	2.15	0.61
5:X:91:LEU:HD21	5:X:129:LEU:HD21	1.83	0.61
3:D:890:VAL:HB	3:D:922:LEU:CD1	2.29	0.61
3:N:1277:ILE:HG12	3:N:1299:PHE:CZ	2.35	0.61
3:D:1490:LYS:NZ	4:E:39:VAL:HG12	2.15	0.61
2:C:492:ASP:HB3	2:C:518:LYS:HG2	1.82	0.61
1:K:35:THR:CG2	1:L:43:ILE:HD11	2.19	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:769:LEU:HD12	3:I:924:MET:HE3	1.83	0.61
2:M:1034:GLU:HB3	3:N:618:LEU:O	2.00	0.61
3:N:1147:ARG:O	3:N:1165:TYR:HA	2.00	0.61
2:M:139:GLN:HE22	2:M:414:GLY:HA3	1.65	0.61
3:I:133:ILE:HD12	3:I:158:TYR:CE2	2.36	0.61
3:I:187:LYS:CE	3:I:199:LEU:HG	2.31	0.61
1:A:83:LYS:HD3	1:A:167:VAL:HG12	1.82	0.61
2:M:211:LEU:HD21	2:M:221:LEU:HD21	1.83	0.61
3:N:162:ARG:C	3:N:162:ARG:HD3	2.20	0.61
2:C:73:LEU:N	2:C:73:LEU:CD1	2.64	0.61
2:H:1013:TYR:HE1	2:H:1020:PRO:HG3	1.65	0.61
3:N:148:GLU:HB3	3:N:151:GLN:HB3	1.83	0.61
2:H:703:ILE:N	2:H:703:ILE:HD12	2.16	0.61
2:M:905:ILE:HG22	2:M:906:PHE:HD2	1.65	0.61
3:I:1381:VAL:HG13	3:I:1398:TRP:HH2	1.65	0.61
1:A:103:ALA:H	1:A:138:LEU:HD23	1.66	0.61
1:L:86:VAL:HG13	1:L:123:MET:SD	2.41	0.61
2:C:441:VAL:HG23	2:C:544:THR:HG21	1.83	0.61
1:G:150:TYR:CE2	3:I:852:ALA:HB2	2.36	0.61
4:J:59:ASN:HD21	4:J:61:VAL:CG2	2.13	0.61
2:M:1101:THR:O	2:M:1109:VAL:HB	2.01	0.61
1:K:99:LEU:HD12	1:K:99:LEU:H	1.65	0.61
2:M:99:GLN:HB3	2:M:110:GLU:HB2	1.83	0.60
3:N:813:LEU:HD12	3:N:814:ALA:N	2.16	0.60
3:N:1209:LEU:HD12	3:N:1215:VAL:HG13	1.83	0.60
2:M:164:PRO:HB2	2:M:265:ARG:H	1.66	0.60
3:N:992:ILE:O	3:N:995:LEU:HB2	2.01	0.60
3:D:477:LEU:HD11	3:D:495:ARG:HG2	1.83	0.60
2:M:571:LEU:HD23	2:M:700:TYR:HA	1.83	0.60
1:A:218:LEU:O	1:A:222:LEU:HD13	2.01	0.60
3:I:1487:VAL:HG23	4:J:79:LEU:HD23	1.83	0.60
2:H:149:THR:HG23	2:H:159:ILE:HD11	1.81	0.60
2:H:1021:LEU:HD21	3:I:622:ARG:NE	2.16	0.60
2:H:497:ALA:HA	2:H:515:ALA:CB	2.30	0.60
2:C:848:VAL:HG12	2:C:849:VAL:N	2.16	0.60
3:N:550:ARG:HG3	3:N:553:ARG:HH21	1.66	0.60
2:C:690:ILE:CG2	2:C:852:ILE:HG13	2.30	0.60
5:Z:48:TYR:OH	5:Z:52:ARG:NH2	2.33	0.60
4:O:35:PHE:O	4:O:36:LYS:HG2	2.01	0.60
2:M:607:ASP:CB	2:M:610:ARG:HG2	2.31	0.60
3:N:17:LYS:O	3:N:20:SER:HB2	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:953:VAL:HG11	2:M:962:GLN:HB3	1.82	0.60
2:C:224:GLU:O	2:C:228:ALA:HB3	2.01	0.60
1:G:41:ARG:NH1	1:G:177:VAL:HG23	2.16	0.60
3:I:705:ALA:HB3	3:I:706:PRO:CD	2.23	0.60
3:D:1256:LEU:N	3:D:1257:PRO:CD	2.64	0.60
2:H:168:ARG:O	2:H:263:ASP:HA	2.02	0.60
3:N:984:THR:HG23	3:N:987:GLU:H	1.65	0.60
3:D:1356:TYR:HB3	3:D:1361:VAL:HB	1.83	0.60
2:M:479:VAL:HG11	2:M:503:LEU:HD11	1.81	0.60
1:A:44:LEU:HD13	1:A:177:VAL:HG11	1.83	0.60
3:I:1209:LEU:HG	3:I:1210:SER:N	2.16	0.60
2:H:373:VAL:HG22	2:H:374:ASN:N	2.16	0.60
2:C:343:GLN:HA	2:C:343:GLN:HE21	1.65	0.60
2:C:20:GLU:HA	2:C:23:VAL:HB	1.83	0.60
3:D:1485:GLN:HG3	4:E:79:LEU:H	1.66	0.60
3:D:729:HIS:CE1	3:D:731:LEU:HB2	2.36	0.60
3:I:935:LYS:HE2	3:I:936:TYR:N	2.16	0.60
3:D:1382:THR:HB	3:D:1416:ALA:HB3	1.83	0.60
3:I:1044:LEU:CD2	3:I:1053:PHE:HB3	2.31	0.60
2:M:1099:VAL:HG22	3:N:10:ILE:CD1	2.30	0.60
2:M:1031:ARG:NH2	3:N:619:LEU:HD22	2.17	0.60
3:D:804:LEU:CD2	3:D:831:GLY:HA2	2.29	0.60
1:A:153:ALA:HA	1:A:156:HIS:NE2	2.17	0.60
3:I:799:LYS:C	3:I:799:LYS:HD2	2.21	0.60
3:I:106:LYS:HE2	3:I:106:LYS:HA	1.83	0.60
1:B:85:LEU:HD21	1:B:111:ALA:HB1	1.83	0.60
2:C:203:ASP:HB2	2:C:205:GLU:OE2	2.00	0.60
3:I:546:ARG:HH11	3:I:546:ARG:CB	2.14	0.60
3:I:401:TYR:HB3	3:I:427:VAL:HG13	1.83	0.60
5:Y:107:PRO:HD3	5:Y:121:ASP:CB	2.30	0.60
2:M:1045:ALA:HB1	2:M:1048:THR:HB	1.84	0.60
3:I:353:VAL:HG22	3:I:368:VAL:HG22	1.83	0.60
3:N:1425:THR:O	3:N:1429:LEU:HD13	2.01	0.60
1:F:162:ILE:HD12	1:F:163:ASN:H	1.67	0.60
2:H:1067:TYR:CZ	2:H:1071:ILE:HD11	2.36	0.60
5:Z:53:ARG:O	5:Z:56:TRP:HB3	2.00	0.60
3:D:598:ARG:O	3:D:598:ARG:HG2	2.01	0.60
3:I:1447:LEU:H	3:I:1447:LEU:HD12	1.65	0.60
3:I:616:GLN:C	3:I:618:LEU:H	2.04	0.60
2:M:107:LEU:HD13	2:M:109:LYS:N	2.16	0.60
1:G:177:VAL:HG12	1:G:199:ILE:HG23	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:418:LEU:HD12	2:M:419:THR:H	1.65	0.60
3:D:1463:LYS:O	3:D:1466:VAL:HB	2.00	0.60
1:A:158:ILE:O	1:A:166:PRO:HG3	2.02	0.60
3:D:1236:LEU:HD12	3:D:1256:LEU:HD22	1.84	0.60
2:H:195:LEU:HD21	2:H:238:LEU:HA	1.82	0.60
3:N:136:ASP:CB	3:N:137:PRO:HD3	2.30	0.60
2:M:683:ASN:CA	2:M:687:ALA:HB3	2.31	0.60
3:N:1054:GLU:O	3:N:1056:PRO:HD3	2.01	0.60
3:D:119:SER:HB2	3:D:123:LEU:HD13	1.82	0.60
2:H:313:LEU:HD12	2:H:314:THR:HG23	1.82	0.60
4:E:48:MET:HB3	4:E:51:LEU:O	2.02	0.60
2:H:571:LEU:HD23	2:H:670:GLN:NE2	2.17	0.60
2:H:839:LEU:N	2:H:839:LEU:HD23	2.16	0.60
3:N:930:LEU:HD11	3:N:934:LEU:HD21	1.82	0.60
1:G:156:HIS:ND1	1:G:158:ILE:HG12	2.17	0.60
1:L:76:VAL:HA	1:L:79:ILE:CG2	2.31	0.60
2:M:1014:SER:HB3	2:M:1019:GLN:H	1.66	0.60
1:F:26:GLU:HG3	1:F:27:PRO:HA	1.83	0.60
3:I:1093:TYR:CE1	3:I:1097:LYS:HD3	2.37	0.60
1:A:220:GLU:O	1:A:223:THR:HG22	2.00	0.60
1:B:104:GLU:O	1:B:107:LYS:HD3	2.02	0.60
3:N:11:ALA:HA	3:N:1451:ALA:O	2.02	0.60
3:I:860:LEU:CD1	3:I:861:GLN:HE22	2.14	0.60
3:I:860:LEU:N	3:I:860:LEU:HD23	2.16	0.60
1:G:165:ILE:HG12	1:G:165:ILE:O	2.01	0.60
2:C:861:LEU:HD12	2:C:862:PRO:HD2	1.83	0.60
2:H:352:ALA:HA	2:H:355:VAL:CG1	2.31	0.60
2:H:64:LEU:HD22	2:H:356:ARG:HA	1.83	0.60
3:N:807:ALA:HB2	3:N:832:ARG:CG	2.31	0.60
3:I:695:ILE:HG23	3:I:696:HIS:N	2.16	0.60
3:I:720:LEU:N	3:I:720:LEU:HD13	2.14	0.60
3:N:141:ILE:HD13	3:N:161:LEU:O	2.01	0.60
3:I:189:GLN:HG2	3:I:190:GLU:N	2.17	0.60
3:D:581:LEU:O	3:D:602:SER:HB2	2.02	0.60
3:I:171:LEU:HD13	3:I:390:PRO:HG2	1.82	0.60
2:H:572:ILE:HD13	2:H:573:ARG:HG3	1.84	0.60
2:C:595:LEU:CD2	2:C:655:LEU:HB2	2.30	0.60
1:K:58:ILE:HD13	1:K:139:ASN:O	2.01	0.60
5:Z:15:LEU:HD11	5:Z:109:GLU:HG2	1.83	0.60
1:G:85:LEU:HD12	1:G:86:VAL:N	2.16	0.60
3:D:411:THR:HG23	3:D:437:VAL:N	2.15	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:670:GLN:HB2	2:C:700:TYR:HE1	1.67	0.60
2:M:332:ARG:HD3	2:M:464:LEU:O	2.02	0.60
2:C:1033:GLY:O	2:C:1037:VAL:HG23	2.01	0.60
3:I:586:ARG:HH21	3:I:1444:THR:HG21	1.67	0.60
3:I:1277:ILE:HD11	3:I:1301:LYS:HZ1	1.67	0.60
1:K:52:ALA:O	1:K:144:VAL:HG13	2.02	0.60
1:K:99:LEU:N	1:K:99:LEU:HD12	2.17	0.60
3:N:102:ILE:HD11	3:N:106:LYS:CG	2.32	0.60
5:Z:134:VAL:HG22	5:Z:153:ALA:HA	1.83	0.60
1:G:56:VAL:HG13	1:G:142:VAL:HG12	1.84	0.60
3:I:108:VAL:HB	3:I:109:PRO:CD	2.23	0.60
3:N:644:LEU:HD12	3:N:645:PRO:HD2	1.82	0.60
5:X:45:ASN:HB3	5:X:48:TYR:H	1.65	0.60
3:I:105:VAL:HG13	3:I:124:GLU:HG2	1.84	0.60
2:H:625:LEU:HA	2:H:639:GLN:OE1	2.01	0.60
1:K:100:LEU:HD12	1:K:101:LEU:N	2.15	0.60
2:M:905:ILE:HG22	2:M:906:PHE:CD2	2.37	0.60
2:H:508:ILE:HD13	2:H:529:VAL:HG21	1.82	0.60
3:D:423:ASP:O	3:D:426:LYS:HD3	2.02	0.60
3:N:911:LEU:O	3:N:915:VAL:HG23	2.00	0.60
5:Y:16:MET:HE1	5:Y:69:LEU:HD13	1.82	0.60
2:M:549:PHE:HZ	2:M:890:LEU:HD12	1.66	0.60
2:H:1008:ARG:HG3	2:H:1027:PHE:O	2.01	0.60
3:I:699:VAL:HG12	3:I:717:GLN:HA	1.83	0.60
1:B:109:VAL:HB	1:B:130:ALA:O	2.01	0.60
2:C:854:PRO:HB2	2:C:856:GLU:HG3	1.83	0.60
2:M:736:ASP:HA	2:M:744:ARG:HD2	1.84	0.60
3:I:877:PRO:O	3:I:880:ILE:HG22	2.02	0.60
1:G:165:ILE:HD13	1:G:165:ILE:N	2.17	0.60
3:I:1036:ARG:NH1	3:I:1036:ARG:HB3	2.17	0.60
3:N:1464:GLU:O	3:N:1468:LEU:HD23	2.02	0.60
2:C:471:TYR:H	2:C:483:VAL:CG1	2.15	0.60
3:I:653:PHE:HE1	3:I:749:VAL:HG11	1.67	0.60
3:D:1350:GLU:O	3:D:1354:LYS:HG2	2.02	0.60
2:M:263:ASP:CB	2:M:264:PRO:HD3	2.32	0.60
3:D:1239:ARG:N	5:X:56:TRP:HZ3	2.00	0.60
3:N:52:PRO:HD2	3:N:86:ARG:HE	1.66	0.60
1:A:58:ILE:HD12	1:A:140:MET:HB3	1.83	0.60
3:D:378:ILE:HG22	3:D:379:ALA:N	2.15	0.60
2:C:537:LYS:HE3	2:C:905:ILE:HD13	1.84	0.60
3:D:1067:VAL:HG23	3:D:1068:LEU:H	1.67	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:6:PHE:CD1	2:C:909:ALA:HB2	2.37	0.60
2:M:290:LEU:HA	2:M:302:VAL:HG11	1.81	0.60
1:B:90:LEU:HD13	1:B:119:ASP:OD1	2.02	0.60
3:D:26:VAL:HG12	3:D:49:ILE:HD12	1.83	0.60
3:I:1256:LEU:HD12	3:I:1259:VAL:HG21	1.83	0.60
3:N:1275:SER:HB3	3:N:1325:LEU:HD21	1.83	0.60
3:I:10:ILE:HD12	3:I:1434:TRP:CE2	2.37	0.60
2:M:860:HIS:O	2:M:974:LEU:HD12	2.01	0.60
2:C:328:LEU:HD11	2:C:434:HIS:CD2	2.37	0.60
2:H:859:PRO:O	2:H:867:VAL:HG22	2.01	0.60
3:D:1320:GLU:H	3:D:1323:GLN:HE22	1.47	0.60
3:I:143:ASN:HB3	3:I:161:LEU:HD13	1.83	0.60
2:M:683:ASN:N	2:M:683:ASN:ND2	2.49	0.60
2:M:12:VAL:HG13	2:M:13:ILE:N	2.14	0.60
3:D:1107:VAL:HB	3:D:1218:GLY:H	1.67	0.60
3:I:1208:ASP:O	3:I:1215:VAL:HG22	2.02	0.60
2:H:113:VAL:CG1	2:H:373:VAL:HG21	2.32	0.60
2:H:1:MET:HG3	2:H:899:GLN:HA	1.83	0.60
3:I:893:GLU:O	3:I:896:ALA:HB3	2.02	0.60
5:Y:35:GLN:HB3	5:Y:39:GLU:OE2	2.02	0.60
1:G:57:TYR:O	1:G:58:ILE:HD13	2.02	0.60
3:D:971:LEU:HD11	3:D:992:ILE:HG12	1.84	0.60
2:C:328:LEU:HD22	2:C:433:THR:O	2.01	0.60
2:C:915:LYS:HA	2:C:918:LEU:CD2	2.27	0.60
3:D:207:PHE:HB2	3:D:391:ALA:CB	2.30	0.60
2:M:670:GLN:HB2	2:M:700:TYR:CE1	2.36	0.60
5:Z:85:LEU:HD23	5:Z:105:VAL:HA	1.83	0.60
3:I:675:ARG:HG3	3:I:675:ARG:HH11	1.67	0.60
2:H:393:GLN:HE22	2:H:409:ARG:NH2	1.99	0.60
2:H:437:ARG:HH12	2:H:488:ALA:HA	1.66	0.60
5:X:128:ALA:HB1	5:X:138:LEU:HD12	1.82	0.60
5:X:132:HIS:HB3	5:X:136:ASP:CG	2.21	0.60
3:D:553:ARG:O	3:D:557:LEU:HG	2.02	0.60
3:I:403:PHE:CD2	3:I:444:VAL:HG23	2.36	0.60
3:N:1097:LYS:HA	3:N:1100:ASP:OD2	2.02	0.60
3:N:893:GLU:O	3:N:896:ALA:HB3	2.02	0.60
2:H:269:LEU:HG	2:H:287:GLY:O	2.01	0.60
1:K:137:ARG:HH11	1:K:137:ARG:HG3	1.66	0.60
2:C:102:HIS:NE2	2:C:107:LEU:HD13	2.15	0.60
1:L:24:VAL:HG22	1:L:196:THR:HG22	1.84	0.60
3:I:891:GLU:H	3:I:926:LYS:NZ	2.00	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:293:PHE:HA	2:C:298:PHE:HD2	1.67	0.60
3:D:804:LEU:HD11	3:D:830:ALA:O	2.01	0.60
3:N:806:PHE:CZ	3:N:813:LEU:HB3	2.37	0.60
3:I:714:GLN:HB2	3:I:736:PHE:HZ	1.66	0.60
2:H:754:ILE:HG13	2:H:791:ARG:HG3	1.83	0.60
2:H:265:ARG:HB3	2:H:267:TYR:CE2	2.36	0.60
1:L:132:LEU:HD21	1:L:138:LEU:CB	2.29	0.60
2:C:139:GLN:O	2:C:333:ILE:HD13	2.02	0.60
2:C:806:LEU:HB2	2:C:822:VAL:CG2	2.32	0.60
2:C:383:ARG:HG2	2:C:388:ARG:NH1	2.15	0.60
3:I:1146:GLY:HA3	3:I:1207:TYR:CB	2.29	0.60
2:M:674:VAL:HG23	2:M:869:VAL:HG13	1.84	0.60
2:H:100:LEU:HD13	2:H:101:ILE:N	2.17	0.60
2:C:879:ARG:NH2	5:X:41:ASP:OD2	2.35	0.60
3:N:30:GLU:HB3	3:N:40:GLU:HB3	1.83	0.60
5:Y:138:LEU:O	5:Y:148:GLU:HG3	2.00	0.60
5:X:26:LEU:HD13	5:X:58:ASN:HB3	1.84	0.60
3:I:921:ARG:HH11	3:I:921:ARG:HG3	1.66	0.60
2:H:588:VAL:HG23	2:H:596:TYR:OH	2.01	0.60
2:M:63:GLY:HA3	2:M:103:LYS:NZ	2.17	0.60
3:D:1250:ALA:O	3:D:1251:ASP:CB	2.49	0.60
2:M:756:VAL:HG22	2:M:790:LEU:CD2	2.32	0.59
2:C:472:ARG:HA	2:C:483:VAL:HG22	1.83	0.59
3:N:814:ALA:O	3:N:817:GLU:HB3	2.02	0.59
3:I:394:LEU:O	3:I:394:LEU:HD12	2.01	0.59
2:H:261:ILE:HG13	2:H:262:ALA:N	2.15	0.59
2:M:1095:LEU:CD2	3:N:603:LEU:HD22	2.27	0.59
1:K:184:THR:CG2	1:K:192:LEU:HD12	2.32	0.59
2:M:889:HIS:CE1	2:M:970:GLY:HA3	2.37	0.59
2:M:205:GLU:HA	2:M:209:ARG:NH1	2.16	0.59
3:D:1250:ALA:O	3:D:1251:ASP:HB2	2.02	0.59
4:E:31:LEU:HD12	4:E:32:ARG:N	2.16	0.59
5:X:52:ARG:O	5:X:55:MET:HB2	2.00	0.59
5:Y:7:LEU:CD2	5:Y:109:GLU:HG3	2.32	0.59
3:I:525:ARG:HB3	3:I:540:LEU:CD2	2.12	0.59
2:M:353:ARG:HH11	2:M:353:ARG:HG3	1.66	0.59
1:G:53:VAL:CA	1:G:144:VAL:HG22	2.27	0.59
3:D:1256:LEU:HD12	3:D:1260:ILE:HD11	1.84	0.59
3:N:147:VAL:HG22	3:N:149:LYS:H	1.67	0.59
1:L:70:GLY:HA2	1:L:133:GLU:HG2	1.83	0.59
2:M:534:VAL:HB	2:M:538:GLN:OE1	2.03	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:835:VAL:HG13	2:M:836:GLY:N	2.17	0.59
2:C:710:ILE:HD11	2:C:758:ARG:NH1	2.17	0.59
3:I:1147:ARG:O	3:I:1165:TYR:HA	2.03	0.59
5:Z:19:LEU:HD21	5:Z:23:ARG:HH21	1.67	0.59
2:C:707:ARG:HG2	2:C:826:TYR:CE1	2.37	0.59
3:I:52:PRO:C	3:I:86:ARG:HE	2.05	0.59
2:H:592:LEU:O	2:H:592:LEU:HD13	2.02	0.59
4:E:49:GLN:HG3	4:E:50:THR:N	2.17	0.59
3:N:398:ALA:HB2	3:N:447:VAL:HG12	1.85	0.59
5:Y:41:ASP:HA	5:Y:45:ASN:ND2	2.12	0.59
2:H:328:LEU:C	2:H:330:ASN:H	2.05	0.59
2:M:376:ARG:HB3	2:M:377:PRO:HD3	1.82	0.59
3:D:785:ILE:O	3:D:789:LEU:HD13	2.02	0.59
2:H:1037:VAL:O	2:H:1041:GLU:HG3	2.02	0.59
3:N:1108:ARG:HG3	3:N:1108:ARG:HH11	1.67	0.59
2:M:221:LEU:C	2:M:223:ASP:H	2.05	0.59
3:D:495:ARG:O	3:D:499:VAL:HG23	2.02	0.59
2:H:1052:MET:HE1	2:H:1056:LYS:HE3	1.82	0.59
1:F:161:ARG:HB2	1:F:161:ARG:CZ	2.32	0.59
2:M:560:MET:O	2:M:564:MET:HG2	2.03	0.59
2:M:837:ASP:O	2:M:849:VAL:HG23	2.02	0.59
3:D:137:PRO:CG	3:D:452:ILE:HB	2.33	0.59
3:D:137:PRO:HG2	3:D:452:ILE:HB	1.84	0.59
2:M:690:ILE:HD11	2:M:694:LEU:HD22	1.84	0.59
3:N:102:ILE:HD11	3:N:106:LYS:HG3	1.83	0.59
5:Y:35:GLN:O	5:Y:39:GLU:HG3	2.01	0.59
5:Y:5:VAL:HB	5:Y:72:ALA:HA	1.84	0.59
3:D:1491:THR:HG23	4:E:92:LEU:HD12	1.83	0.59
2:H:1095:LEU:HD13	2:H:1095:LEU:N	2.18	0.59
3:N:843:PHE:HD2	3:N:848:GLU:HB3	1.66	0.59
3:I:942:SER:O	3:I:947:ILE:HD11	2.02	0.59
3:I:696:HIS:NE2	4:J:54:LEU:HD11	2.17	0.59
3:I:704:ARG:HE	3:I:706:PRO:CD	2.16	0.59
2:M:292:ARG:HG2	2:M:299:LYS:HG2	1.84	0.59
2:C:64:LEU:CD1	2:C:372:LEU:HD21	2.32	0.59
3:N:169:TYR:OH	3:N:198:ARG:HG3	2.01	0.59
2:M:700:TYR:O	2:M:833:LEU:HD13	2.03	0.59
3:N:358:GLY:H	3:N:385:VAL:HB	1.68	0.59
3:I:1424:VAL:HG13	3:I:1425:THR:H	1.67	0.59
2:M:1077:PRO:O	2:M:1079:PRO:HD3	2.02	0.59
2:M:744:ARG:HG3	2:M:747:ALA:HB2	1.83	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:1236:LEU:HB2	3:I:1256:LEU:HB2	1.84	0.59
2:C:159:ILE:HD12	2:C:159:ILE:O	2.01	0.59
2:M:1104:GLU:HB2	2:M:1105:LYS:HE2	1.85	0.59
3:D:899:LEU:HD23	3:D:921:ARG:HE	1.67	0.59
1:G:99:LEU:N	1:G:99:LEU:HD12	2.18	0.59
3:I:613:ARG:HD3	3:I:613:ARG:O	2.02	0.59
3:D:1054:GLU:O	3:D:1056:PRO:HD3	2.02	0.59
3:D:813:LEU:HD12	3:D:814:ALA:HB2	1.85	0.59
3:D:841:TYR:HB2	3:D:864:VAL:HG13	1.83	0.59
5:X:107:PRO:HD3	5:X:121:ASP:HB2	1.83	0.59
2:C:331:ARG:HH12	2:C:427:VAL:HG11	1.68	0.59
2:H:976:ASP:OD2	2:H:979:THR:HG22	2.03	0.59
3:N:806:PHE:HD1	3:N:812:ALA:HB3	1.68	0.59
3:N:714:GLN:HB2	3:N:736:PHE:HZ	1.65	0.59
2:H:154:ARG:HG3	2:H:154:ARG:O	2.01	0.59
4:J:68:LEU:N	4:J:68:LEU:CD1	2.66	0.59
3:D:702:LEU:O	3:D:713:ILE:HA	2.02	0.59
2:C:13:ILE:O	2:C:13:ILE:HG23	2.02	0.59
1:F:132:LEU:HG	1:F:136:GLY:HA3	1.84	0.59
1:K:101:LEU:HD23	1:K:102:LYS:N	2.17	0.59
2:M:994:ILE:H	2:M:994:ILE:HD12	1.67	0.59
1:B:143:ARG:CZ	1:B:158:ILE:HG21	2.32	0.59
1:A:103:ALA:H	1:A:138:LEU:HD21	1.64	0.59
3:I:1211:MET:CG	3:I:1212:ALA:H	2.12	0.59
2:H:906:PHE:HD1	3:I:1067:VAL:HG22	1.64	0.59
3:N:708:LEU:N	3:N:708:LEU:HD12	2.16	0.59
2:C:202:TYR:OH	2:C:304:LEU:HB2	2.02	0.59
3:D:1485:GLN:HE21	4:E:79:LEU:H	1.50	0.59
3:D:1435:LEU:HD13	3:D:1457:ASP:OD2	2.02	0.59
3:D:1388:ARG:CZ	3:D:1389:LEU:HD22	2.32	0.59
2:M:810:ASP:HB3	2:M:813:VAL:HG12	1.85	0.59
1:G:190:THR:HB	3:I:722:GLU:OE1	2.02	0.59
2:M:876:VAL:H	2:M:877:PRO:CD	2.13	0.59
3:N:879:ARG:HH22	3:N:905:PRO:HG3	1.67	0.59
3:D:1103:HIS:ND1	3:D:1104:GLU:HG3	2.18	0.59
3:D:160:GLU:HG3	3:D:165:LYS:HD2	1.83	0.59
3:D:119:SER:H	3:D:123:LEU:CD2	2.12	0.59
3:D:562:ALA:HB3	2:H:225:SER:H	1.68	0.59
3:D:695:ILE:HG23	3:D:696:HIS:H	1.66	0.59
1:A:124:ASN:HD21	1:A:127:LEU:HD22	1.68	0.59
3:I:835:SER:N	3:I:838:ARG:HH11	1.99	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Z:26:LEU:O	5:Z:26:LEU:HD12	2.02	0.59
3:D:1110:ALA:O	3:D:1111:ASP:HB3	2.01	0.59
1:L:85:LEU:HB2	1:L:127:LEU:HD23	1.84	0.59
3:I:910:SER:OG	3:I:911:LEU:HD12	2.02	0.59
1:A:90:LEU:HB2	1:A:119:ASP:OD2	2.02	0.59
2:C:439:CYS:HB3	2:C:442:GLU:HB2	1.85	0.59
3:I:1258:ARG:CZ	3:I:1262:LEU:HD11	2.32	0.59
3:N:1330:ILE:HD13	3:N:1347:TYR:OH	2.03	0.59
2:H:751:PRO:HG3	2:H:796:GLU:HA	1.84	0.59
3:D:1488:ASP:HB3	4:E:26:ARG:NH2	2.17	0.59
1:G:56:VAL:O	1:G:165:ILE:HD13	2.03	0.59
2:H:45:GLN:HA	2:H:48:PHE:HD2	1.66	0.59
1:K:85:LEU:HB2	1:K:127:LEU:CD2	2.32	0.59
1:K:85:LEU:HB2	1:K:127:LEU:HD22	1.85	0.59
2:M:164:PRO:CB	2:M:265:ARG:H	2.16	0.59
3:N:142:LEU:H	3:N:142:LEU:HD22	1.67	0.59
3:N:957:PRO:HG2	3:N:1007:VAL:CG2	2.27	0.59
1:L:78:ILE:O	1:L:82:LEU:HG	2.01	0.59
3:D:1426:LYS:HD3	3:D:1429:LEU:HD22	1.85	0.59
1:A:138:LEU:HD12	1:A:138:LEU:C	2.22	0.59
2:C:904:PRO:HB2	2:C:907:ASP:HB3	1.83	0.59
2:M:15:LEU:HD22	2:M:15:LEU:N	2.16	0.59
1:L:89:PHE:HB3	1:L:94:LEU:HD12	1.84	0.59
3:D:538:SER:HB2	3:D:540:LEU:CD2	2.24	0.59
1:K:75:VAL:O	1:K:79:ILE:HG23	2.02	0.59
3:I:166:GLN:NE2	3:I:394:LEU:HD13	2.18	0.59
2:H:173:ASP:HB2	2:H:185:LYS:HB3	1.84	0.59
3:N:137:PRO:HG2	3:N:453:ASP:N	2.18	0.59
1:B:83:LYS:O	1:B:170:VAL:HG21	2.02	0.59
2:H:465:GLY:O	2:H:466:PHE:C	2.41	0.59
1:F:57:TYR:HB2	1:F:164:ALA:HB2	1.84	0.59
2:M:496:ILE:HD12	2:M:496:ILE:N	2.18	0.59
2:M:754:ILE:HG23	2:M:791:ARG:HG2	1.85	0.59
3:N:351:MET:HG3	3:N:370:ALA:HB2	1.83	0.59
3:D:426:LYS:O	3:D:428:LYS:HG3	2.02	0.59
2:C:630:ARG:HH21	2:C:706:GLU:HA	1.68	0.59
4:O:26:ARG:NH2	4:O:37:ASN:HB3	2.17	0.59
5:Y:59:GLU:O	5:Y:62:ILE:HG22	2.02	0.59
2:M:992:MET:HE3	2:M:993:PHE:H	1.66	0.59
2:H:1068:GLU:HG2	2:H:1072:LYS:HD3	1.84	0.59
3:D:617:ASN:HB2	3:D:1467:ILE:HA	1.83	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:178:ALA:HB3	1:L:198:ARG:NH1	2.18	0.59
3:D:1406:ARG:HD2	3:D:1412:LYS:HG2	1.84	0.59
1:F:63:HIS:NE2	2:H:801:VAL:HG23	2.18	0.59
3:N:1376:MET:O	3:N:1395:LEU:HD12	2.03	0.59
3:I:1057:VAL:HA	3:I:1069:GLU:OE2	2.03	0.59
3:D:850:LEU:CD1	3:D:850:LEU:H	2.12	0.59
3:I:703:ASN:HD22	3:I:713:ILE:CG2	2.15	0.59
2:H:251:ASP:C	2:H:253:ALA:H	2.06	0.59
1:B:172:SER:OG	1:B:174:VAL:HG23	2.02	0.59
1:B:199:ILE:CG1	1:B:211:LEU:HD11	2.32	0.59
2:H:275:TYR:O	2:H:279:GLU:HB3	2.03	0.59
3:N:785:ILE:HD13	3:N:935:LYS:CA	2.31	0.59
3:D:119:SER:N	3:D:123:LEU:HD22	2.14	0.59
3:D:564:GLU:H	2:H:223:ASP:CB	2.09	0.59
3:D:641:GLN:O	3:D:716:PHE:HD2	1.86	0.59
3:D:720:LEU:HD22	3:D:720:LEU:H	1.68	0.59
2:H:1013:TYR:CE2	2:H:1060:ILE:HG22	2.37	0.59
2:H:571:LEU:HD11	2:H:701:THR:H	1.68	0.59
2:M:569:VAL:HG13	2:M:571:LEU:HD12	1.85	0.59
2:M:477:GLY:O	2:M:507:ARG:HA	2.03	0.59
3:D:358:GLY:H	3:D:385:VAL:CB	2.13	0.59
3:D:690:ALA:O	3:D:694:VAL:HG23	2.02	0.59
2:C:9:ILE:HG12	2:C:907:ASP:OD2	2.02	0.59
1:K:181:VAL:O	2:M:938:LYS:HB2	2.02	0.59
2:M:358:ARG:HG2	2:M:371:LYS:O	2.03	0.59
3:I:1156:LEU:HD12	3:I:1177:ALA:HA	1.85	0.59
2:C:994:ILE:HD12	2:C:994:ILE:H	1.68	0.59
3:D:984:THR:HG22	3:D:987:GLU:CG	2.33	0.59
3:N:1485:GLN:HB2	4:O:79:LEU:HD22	1.85	0.59
3:I:895:VAL:HG11	3:I:922:LEU:HD21	1.84	0.59
5:Y:41:ASP:OD2	5:Y:48:TYR:CD1	2.56	0.59
3:I:563:PRO:HB3	3:I:566:ILE:HD13	1.85	0.59
2:M:48:PHE:O	2:M:52:PHE:HB2	2.02	0.59
2:C:165:LEU:HB3	2:C:265:ARG:NH2	2.18	0.59
2:C:275:TYR:OH	2:C:489:THR:HG21	2.03	0.59
3:N:179:VAL:HG13	3:N:183:GLU:CB	2.33	0.59
3:I:764:LEU:HD12	3:I:765:SER:N	2.16	0.59
2:M:1092:LEU:CD1	2:M:1099:VAL:HG21	2.25	0.59
3:D:873:LEU:HD22	3:D:875:THR:OG1	2.01	0.59
1:A:153:ALA:N	1:A:168:ASP:OD1	2.36	0.59
2:M:253:ALA:O	2:M:257:VAL:HG23	2.03	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:139:GLY:H	3:N:147:VAL:CG2	2.16	0.59
3:D:97:THR:HG22	3:D:554:LEU:HD21	1.85	0.59
3:N:700:VAL:CG1	3:N:718:PRO:HG2	2.32	0.59
2:M:431:HIS:CD2	2:M:432:ARG:HG2	2.38	0.59
1:L:80:LEU:HG	3:N:844:ALA:HB2	1.85	0.59
1:A:102:LYS:CB	1:A:138:LEU:O	2.50	0.59
3:N:112:ILE:HD11	3:N:465:LEU:HD21	1.85	0.59
2:C:605:LYS:HB2	2:C:612:VAL:CG2	2.33	0.59
3:D:486:ARG:NH1	3:D:486:ARG:HB2	2.18	0.59
5:X:68:ILE:HD13	5:X:71:ARG:HH21	1.66	0.59
3:N:1330:ILE:HD13	3:N:1347:TYR:CE1	2.38	0.59
1:A:152:PRO:HB2	1:A:155:LYS:HB2	1.83	0.59
3:I:415:VAL:HG12	3:I:416:ALA:H	1.66	0.59
3:D:26:VAL:HG23	3:D:93:ILE:HD11	1.85	0.59
5:Z:91:LEU:CD2	5:Z:151:VAL:HG22	2.33	0.59
2:M:922:PHE:HB2	2:M:967:PHE:CD2	2.38	0.59
3:N:486:ARG:HA	3:N:489:ARG:HG2	1.85	0.58
3:D:820:GLU:HG2	3:D:825:ALA:O	2.03	0.58
3:N:922:LEU:H	3:N:922:LEU:CD2	2.00	0.58
2:M:679:PHE:C	2:M:681:GLY:H	2.07	0.58
3:D:1095:THR:CG2	3:D:1230:GLY:HA3	2.31	0.58
3:D:473:LEU:H	3:D:473:LEU:HD12	1.68	0.58
2:C:139:GLN:HE22	2:C:414:GLY:HA3	1.67	0.58
1:A:62:LEU:N	1:A:62:LEU:HD12	2.18	0.58
3:D:162:ARG:NE	3:D:452:ILE:HG23	2.17	0.58
1:L:123:MET:C	1:L:125:PRO:HD3	2.23	0.58
3:D:939:PHE:O	3:D:943:THR:HG23	2.04	0.58
2:M:15:LEU:HD21	2:M:586:ARG:HG3	1.85	0.58
1:G:73:GLU:OE2	1:G:130:ALA:HA	2.02	0.58
3:D:409:VAL:HG11	3:D:435:VAL:HG11	1.82	0.58
3:D:650:LEU:CD1	3:D:691:LEU:HD22	2.32	0.58
2:H:1054:THR:HG21	2:H:1082:PRO:HB3	1.85	0.58
3:I:1236:LEU:HD12	3:I:1256:LEU:HD13	1.85	0.58
2:C:835:VAL:HG13	2:C:836:GLY:H	1.68	0.58
3:N:180:LYS:HA	3:N:387:LEU:HD21	1.85	0.58
3:N:1463:LYS:O	3:N:1466:VAL:HB	2.02	0.58
2:C:1089:VAL:HG11	2:C:1111:ILE:HD13	1.83	0.58
3:I:108:VAL:CB	3:I:109:PRO:HD3	2.20	0.58
2:M:455:LEU:HD22	2:M:456:ALA:O	2.03	0.58
3:D:483:HIS:HB2	3:D:484:PRO:CD	2.27	0.58
2:H:193:LEU:N	2:H:193:LEU:HD12	2.18	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:831:ARG:NH1	2:H:831:ARG:HG2	2.16	0.58
3:N:141:ILE:HD12	3:N:448:GLU:OE2	2.02	0.58
3:N:639:LEU:HD13	3:N:640:HIS:H	1.69	0.58
1:A:85:LEU:CD1	1:A:124:ASN:HB3	2.31	0.58
3:I:1109:GLU:CG	3:I:1201:CYS:HA	2.33	0.58
1:L:185:ARG:HG2	1:L:186:LEU:N	2.18	0.58
2:C:575:GLN:NE2	2:C:671:ASN:H	2.01	0.58
3:N:112:ILE:CD1	3:N:115:LEU:HD13	2.33	0.58
2:M:89:THR:O	2:M:91:GLN:HG3	2.03	0.58
5:X:104:VAL:HG22	5:X:119:ILE:HB	1.84	0.58
5:Z:139:SER:HB3	5:Z:148:GLU:HG3	1.85	0.58
2:C:577:PRO:HG3	2:C:993:PHE:CE1	2.38	0.58
2:C:589:ARG:O	2:C:592:LEU:HD23	2.03	0.58
2:M:584:GLU:CD	2:M:584:GLU:H	2.05	0.58
3:N:861:GLN:H	3:N:861:GLN:NE2	2.01	0.58
3:I:730:PRO:O	3:I:733:CYS:SG	2.59	0.58
3:I:636:GLN:NE2	3:I:637:LEU:N	2.45	0.58
2:M:182:VAL:O	2:M:193:LEU:HD13	2.04	0.58
2:H:281:LEU:HD12	2:H:306:THR:HA	1.85	0.58
3:N:205:TYR:HA	3:N:393:ILE:HG13	1.86	0.58
3:N:992:ILE:CG2	3:N:996:TRP:HE1	2.16	0.58
2:H:469:THR:OG1	2:H:470:PRO:HD2	2.03	0.58
3:I:1211:MET:HG2	3:I:1212:ALA:N	2.17	0.58
3:N:1348:LEU:O	3:N:1352:ILE:HG12	2.02	0.58
3:N:789:LEU:CD1	3:N:911:LEU:HD21	2.33	0.58
5:Y:7:LEU:O	5:Y:74:ILE:HD12	2.04	0.58
3:I:652:LEU:HD12	3:I:653:PHE:CD1	2.39	0.58
2:M:334:ARG:HB3	2:M:339:LEU:HD21	1.84	0.58
3:N:395:VAL:O	3:N:396:VAL:HG13	2.02	0.58
5:Z:111:ASN:HD21	5:Z:113:LEU:HD12	1.67	0.58
2:H:221:LEU:HD12	2:H:222:MET:N	2.17	0.58
1:F:101:LEU:HD23	1:F:102:LYS:N	2.18	0.58
3:I:849:ALA:O	3:I:853:VAL:HG23	2.02	0.58
2:M:496:ILE:HA	2:M:531:PHE:O	2.04	0.58
2:C:135:VAL:O	2:C:392:SER:HA	2.04	0.58
2:C:151:ASP:OD1	2:C:154:ARG:HB2	2.03	0.58
1:G:85:LEU:CD1	1:G:124:ASN:HB3	2.33	0.58
1:F:85:LEU:HD12	1:F:86:VAL:H	1.69	0.58
3:D:885:ILE:HD12	3:D:937:TYR:CE1	2.38	0.58
3:N:1155:VAL:CG1	3:N:1177:ALA:HB1	2.34	0.58
3:D:434:ARG:O	3:D:446:VAL:HG13	2.03	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:210:ARG:HD2	3:N:388:HIS:HB2	1.84	0.58
3:I:420:VAL:HG11	3:I:424:GLY:O	2.04	0.58
2:M:861:LEU:HD22	2:M:863:ASP:OD1	2.04	0.58
3:N:829:VAL:O	3:N:835:SER:HB2	2.04	0.58
3:N:859:ASP:O	3:N:877:PRO:HG2	2.03	0.58
2:C:163:ILE:HD12	2:C:171:TRP:NE1	2.18	0.58
3:D:1348:LEU:HD13	3:D:1348:LEU:N	2.19	0.58
2:H:707:ARG:HD3	2:H:826:TYR:CE2	2.38	0.58
2:C:47:ALA:O	2:C:50:GLU:HB3	2.03	0.58
1:B:190:THR:HG22	3:D:722:GLU:HG2	1.86	0.58
2:C:1008:ARG:HH12	3:D:624:ASP:HB3	1.67	0.58
2:M:1061:GLU:OE2	3:N:84:ILE:HD12	2.04	0.58
3:D:1245:GLY:C	3:D:1246:VAL:HG22	2.24	0.58
3:I:770:LEU:HD13	3:I:1211:MET:O	2.04	0.58
3:D:139:GLY:H	3:D:147:VAL:CG2	2.16	0.58
2:M:195:LEU:HD23	2:M:241:LEU:HD11	1.84	0.58
3:N:907:GLU:OE1	3:N:909:ASN:N	2.34	0.58
1:B:13:VAL:HG12	1:B:14:ARG:H	1.69	0.58
3:I:859:ASP:HB2	3:I:862:ASP:OD1	2.03	0.58
2:M:52:PHE:CD2	2:M:68:PHE:HB2	2.38	0.58
3:N:879:ARG:HH12	3:N:905:PRO:CA	2.16	0.58
3:D:832:ARG:HG3	3:D:833:GLU:OE2	2.03	0.58
3:N:807:ALA:HB2	3:N:832:ARG:HH11	1.68	0.58
3:N:926:LYS:HA	3:N:929:ARG:HD2	1.84	0.58
3:N:123:LEU:O	3:N:127:LEU:HD23	2.04	0.58
3:D:720:LEU:N	3:D:720:LEU:HD22	2.19	0.58
4:E:54:LEU:HG	4:E:58:PRO:CB	2.33	0.58
1:F:56:VAL:CG2	1:F:142:VAL:HG12	2.34	0.58
2:M:1083:GLU:CD	3:N:87:ARG:HH21	2.07	0.58
3:I:119:SER:CB	3:I:123:LEU:HB2	2.34	0.58
3:D:214:GLU:HA	3:D:342:PRO:HB3	1.86	0.58
5:Y:153:ALA:O	5:Y:154:ILE:HG13	2.03	0.58
2:H:474:VAL:HG23	2:H:478:VAL:O	2.04	0.58
2:M:304:LEU:HB3	2:M:305:PRO:HD3	1.86	0.58
3:N:176:ASP:CA	3:N:389:GLU:HG2	2.34	0.58
3:N:1485:GLN:CG	4:O:79:LEU:HB2	2.33	0.58
2:C:841:ASN:HD22	2:C:992:MET:HE1	1.69	0.58
3:N:1134:LEU:O	3:N:1134:LEU:HD23	2.04	0.58
1:G:162:ILE:N	1:G:162:ILE:HD12	2.18	0.58
3:I:1290:LEU:HD13	3:I:1307:LYS:HA	1.85	0.58
3:N:170:PRO:HA	3:N:392:SER:HB2	1.86	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:59:GLU:OE1	1:G:139:ASN:HB3	2.03	0.58
3:I:1042:ARG:HH21	3:I:1045:MET:CE	2.16	0.58
3:D:911:LEU:HD12	3:D:911:LEU:N	2.18	0.58
2:H:68:PHE:O	2:H:69:LEU:HD23	2.04	0.58
2:C:297:GLU:HG2	2:C:298:PHE:H	1.68	0.58
5:X:6:LYS:O	5:X:7:LEU:HD23	2.03	0.58
2:M:721:ARG:HG2	2:M:820:ARG:NH1	2.05	0.58
3:N:785:ILE:HG23	3:N:786:ILE:N	2.19	0.58
4:E:45:ARG:NH1	4:E:55:PHE:HB3	2.19	0.58
3:N:625:TYR:CZ	3:N:751:LEU:HD11	2.39	0.58
2:H:636:ALA:O	2:H:637:LEU:HD23	2.03	0.58
2:H:839:LEU:HA	2:H:997:LEU:CD2	2.34	0.58
2:C:304:LEU:CB	2:C:305:PRO:HD3	2.33	0.58
1:G:173:PRO:HB3	1:G:202:ASP:OD1	2.04	0.58
1:A:65:PHE:HZ	2:C:830:LYS:HG3	1.67	0.58
2:H:431:HIS:NE2	2:H:433:THR:OG1	2.37	0.58
3:D:1026:SER:C	3:D:1028:ALA:H	2.07	0.58
2:M:974:LEU:HB3	2:M:987:ILE:HD13	1.85	0.58
1:F:151:VAL:H	1:F:169:ALA:HB3	1.69	0.58
1:F:36:LEU:C	1:F:39:PRO:HD2	2.24	0.58
3:I:728:LEU:HD12	3:I:729:HIS:N	2.18	0.58
3:N:1106:VAL:CG1	3:N:1107:VAL:N	2.67	0.58
1:A:64:GLU:HA	1:A:75:VAL:HG11	1.84	0.58
1:B:40:LEU:HD22	1:B:44:LEU:CD1	2.33	0.58
1:B:80:LEU:O	1:B:84:GLU:HG3	2.04	0.58
3:N:203:ALA:HA	3:N:395:VAL:HA	1.84	0.58
3:N:151:GLN:CG	3:N:152:LEU:H	2.12	0.58
3:I:868:TYR:HD1	3:I:869:MET:HG2	1.68	0.58
2:H:997:LEU:HD22	2:H:997:LEU:N	2.19	0.58
3:N:465:LEU:HD11	3:N:512:MET:HB2	1.85	0.58
2:M:6:PHE:CE1	2:M:909:ALA:HB2	2.38	0.58
2:H:393:GLN:NE2	2:H:409:ARG:NH2	2.49	0.58
1:G:161:ARG:HB3	1:G:163:ASN:OD1	2.03	0.58
3:I:684:LYS:HD3	3:I:686:GLU:OE1	2.04	0.58
5:Z:139:SER:OG	5:Z:146:ARG:HG3	2.04	0.58
5:Y:19:LEU:CD1	5:Y:62:ILE:HD12	2.34	0.58
3:D:112:ILE:O	3:D:112:ILE:HD13	2.03	0.58
3:N:1412:LYS:O	3:N:1414:PRO:HD3	2.04	0.58
3:I:891:GLU:H	3:I:926:LYS:HZ2	1.51	0.58
2:M:974:LEU:HD23	2:M:983:ILE:HD11	1.84	0.58
3:D:806:PHE:CE1	3:D:813:LEU:HB3	2.39	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:43:ILE:HG23	1:G:35:THR:HG21	1.85	0.58
1:G:48:ILE:CD1	1:G:48:ILE:H	2.05	0.58
2:M:292:ARG:HD3	2:M:294:GLU:OE1	2.03	0.58
2:H:309:TYR:OH	2:H:321:GLU:HB3	2.03	0.58
2:C:374:ASN:ND2	2:C:374:ASN:N	2.46	0.58
3:N:760:ARG:HH12	4:O:59:ASN:ND2	2.02	0.58
2:C:140:ILE:HG13	2:C:412:ALA:HA	1.86	0.58
2:C:417:GLY:C	2:C:418:LEU:HD12	2.24	0.58
1:G:80:LEU:HD23	1:G:81:ASN:N	2.19	0.58
3:I:481:MET:SD	3:I:493:ARG:HB3	2.44	0.58
1:A:100:LEU:HD23	1:A:101:LEU:N	2.18	0.58
1:A:102:LYS:CA	1:A:138:LEU:HG	2.33	0.58
1:K:228:PRO:O	1:K:229:GLN:HB2	2.04	0.58
2:H:358:ARG:O	2:H:371:LYS:HE3	2.04	0.58
3:N:910:SER:OG	3:N:911:LEU:HD12	2.03	0.58
3:N:1367:HIS:O	3:N:1371:VAL:HG23	2.03	0.58
5:Y:16:MET:SD	5:Y:69:LEU:HD13	2.43	0.58
5:Y:65:LEU:O	5:Y:69:LEU:HG	2.03	0.58
5:Z:45:ASN:HB3	5:Z:48:TYR:CB	2.34	0.58
2:M:838:LYS:O	2:M:997:LEU:HD22	2.03	0.58
1:K:67:THR:HG22	2:M:627:ARG:CZ	2.34	0.58
3:N:176:ASP:HA	3:N:389:GLU:HG2	1.86	0.58
2:M:118:ILE:HD12	2:M:119:PRO:O	2.04	0.58
5:Z:91:LEU:HD23	5:Z:151:VAL:HG22	1.86	0.58
2:C:21:ILE:H	2:C:21:ILE:HD12	1.68	0.58
3:D:30:GLU:HB3	3:D:40:GLU:HB3	1.86	0.58
3:I:563:PRO:HB2	3:I:566:ILE:HB	1.86	0.58
2:M:99:GLN:HA	2:M:109:LYS:O	2.03	0.58
2:M:350:ARG:HG2	2:M:377:PRO:HB3	1.84	0.58
2:C:676:ILE:HD11	2:C:873:PRO:HA	1.86	0.58
2:C:265:ARG:HB3	2:C:267:TYR:CE2	2.39	0.58
2:C:290:LEU:N	2:C:290:LEU:HD23	2.10	0.58
2:C:300:ASP:HB2	2:C:302:VAL:HG12	1.85	0.58
2:C:55:GLU:HA	2:C:64:LEU:O	2.04	0.58
1:K:44:LEU:HA	1:K:48:ILE:HD13	1.85	0.58
3:D:624:ASP:HB2	3:D:625:TYR:HD1	1.68	0.58
2:C:167:LYS:HD2	2:C:415:PRO:HB3	1.86	0.58
2:H:118:ILE:HD13	2:H:118:ILE:N	2.11	0.58
2:C:755:LEU:HD21	2:C:792:VAL:HG22	1.86	0.58
1:A:100:LEU:HD23	1:A:101:LEU:H	1.69	0.58
3:D:137:PRO:HB2	3:D:138:LYS:NZ	2.19	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1041:LEU:HB2	3:N:1059:SER:O	2.04	0.58
2:H:1012:PRO:HB2	2:H:1021:LEU:O	2.04	0.58
3:D:417:PRO:HG3	3:D:431:VAL:CA	2.34	0.58
3:I:18:ILE:CD1	3:I:516:ALA:HB3	2.34	0.58
3:D:1310:ARG:NH1	3:D:1310:ARG:HB3	2.19	0.58
3:D:730:PRO:O	3:D:733:CYS:HB2	2.04	0.58
1:F:50:GLY:HA3	1:F:173:PRO:HG3	1.86	0.58
3:N:420:VAL:HG11	3:N:424:GLY:O	2.04	0.58
1:F:184:THR:HB	1:F:192:LEU:HB2	1.86	0.58
2:H:1088:LEU:O	2:H:1092:LEU:HG	2.04	0.57
3:I:89:ARG:NH1	3:I:89:ARG:HG3	2.18	0.57
2:M:666:LEU:CD1	2:M:668:LEU:HG	2.26	0.57
2:M:987:ILE:N	2:M:987:ILE:HD12	2.18	0.57
2:C:477:GLY:O	2:C:508:ILE:HG13	2.04	0.57
2:C:474:VAL:HG12	2:C:531:PHE:HA	1.86	0.57
2:H:873:PRO:HB3	3:I:949:ILE:CD1	2.31	0.57
3:N:1106:VAL:HG12	3:N:1107:VAL:N	2.18	0.57
2:H:252:LYS:HZ2	2:H:255:ALA:HB3	1.69	0.57
3:N:983:LEU:HD11	3:N:988:ARG:HA	1.86	0.57
2:C:115:LEU:HD21	2:C:373:VAL:HG13	1.86	0.57
1:F:111:ALA:CA	1:F:129:ILE:HD11	2.33	0.57
1:G:100:LEU:HB2	1:G:115:LEU:HD21	1.86	0.57
3:I:1394:VAL:HB	3:I:1397:LYS:HG3	1.86	0.57
1:A:57:TYR:HB2	1:A:164:ALA:HB2	1.84	0.57
2:M:630:ARG:HH21	2:M:707:ARG:H	1.50	0.57
3:D:1459:LEU:HD12	3:D:1465:ASN:ND2	2.19	0.57
2:C:455:LEU:HD12	2:C:456:ALA:H	1.68	0.57
2:C:544:THR:C	2:C:546:LEU:H	2.08	0.57
3:N:102:ILE:HB	3:N:579:ASP:OD1	2.04	0.57
3:N:1018:ASN:O	3:N:1022:VAL:HG23	2.03	0.57
1:L:90:LEU:HB3	1:L:119:ASP:HB2	1.86	0.57
1:G:59:GLU:HB2	1:G:137:ARG:HH12	1.69	0.57
3:D:1000:THR:O	3:D:1003:VAL:HG12	2.04	0.57
2:C:970:GLY:O	2:C:988:VAL:HA	2.04	0.57
3:N:843:PHE:CE1	3:N:864:VAL:HG11	2.39	0.57
3:D:802:ALA:O	3:D:804:LEU:N	2.36	0.57
3:I:111:LYS:NZ	3:I:1449:GLU:HG3	2.18	0.57
2:H:1009:SER:HB2	3:I:652:LEU:HA	1.85	0.57
3:D:1256:LEU:O	3:D:1260:ILE:HD12	2.05	0.57
1:A:35:THR:HG23	1:B:39:PRO:HA	1.86	0.57
2:H:204:GLN:OE1	2:H:228:ALA:HB1	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1006:HIS:H	3:D:628:ARG:NH1	2.02	0.57
3:D:703:ASN:N	3:D:745:MET:HE2	2.18	0.57
2:M:1006:HIS:O	3:N:627:GLY:HA2	2.04	0.57
2:M:583:LEU:O	2:M:587:VAL:HG23	2.04	0.57
3:D:1101:VAL:HG12	3:D:1428:ALA:HB2	1.86	0.57
3:D:902:LEU:CD2	3:D:902:LEU:H	2.14	0.57
1:L:124:ASN:N	1:L:125:PRO:HD3	2.19	0.57
1:G:161:ARG:HD2	1:G:161:ARG:N	2.19	0.57
1:B:106:PRO:HD3	1:B:134:GLU:HA	1.85	0.57
2:H:864:GLY:O	2:H:865:THR:C	2.42	0.57
3:N:215:TYR:H	3:N:342:PRO:N	2.01	0.57
2:M:63:GLY:N	2:M:103:LYS:HE2	2.19	0.57
3:N:210:ARG:HD2	3:N:388:HIS:CB	2.33	0.57
5:Z:9:LYS:O	5:Z:12:TYR:HB3	2.04	0.57
3:N:360:ARG:HA	3:N:383:GLY:O	2.04	0.57
2:H:1073:GLY:HA3	3:I:659:LYS:HE2	1.85	0.57
1:B:64:GLU:HG3	1:B:64:GLU:O	2.03	0.57
3:D:128:TYR:CE2	3:D:458:ALA:HA	2.39	0.57
2:H:44:ILE:CD1	2:H:44:ILE:H	2.17	0.57
1:G:185:ARG:HD2	1:G:187:GLY:N	2.19	0.57
3:N:1209:LEU:HG	3:N:1210:SER:H	1.69	0.57
3:N:1211:MET:CG	3:N:1212:ALA:H	2.15	0.57
3:N:1206:GLY:O	3:N:1215:VAL:HG23	2.04	0.57
2:C:915:LYS:HD3	2:C:918:LEU:CD2	2.34	0.57
2:H:461:VAL:HG12	2:H:462:ASP:N	2.19	0.57
3:N:728:LEU:HD12	3:N:729:HIS:H	1.68	0.57
3:D:578:VAL:O	3:D:581:LEU:HG	2.04	0.57
2:M:1095:LEU:HG	2:M:1095:LEU:O	2.03	0.57
3:D:704:ARG:HG3	3:D:706:PRO:HD2	1.85	0.57
3:I:829:VAL:O	3:I:831:GLY:N	2.35	0.57
2:C:205:GLU:CD	2:C:206:THR:H	2.07	0.57
3:I:470:LEU:HB2	3:I:503:LEU:CD2	2.35	0.57
1:K:56:VAL:HA	1:K:141:GLU:O	2.04	0.57
2:M:690:ILE:HD11	2:M:694:LEU:HD13	1.84	0.57
4:J:9:LEU:HD13	4:J:19:LEU:HD11	1.86	0.57
3:N:112:ILE:HD12	3:N:115:LEU:HD22	1.86	0.57
1:K:92:PRO:HA	1:K:146:ARG:HH22	1.67	0.57
3:N:1155:VAL:HG11	3:N:1177:ALA:HB1	1.86	0.57
3:D:1412:LYS:O	3:D:1414:PRO:HD3	2.05	0.57
3:D:608:SER:O	3:D:612:GLY:HA3	2.03	0.57
1:G:197:LEU:HD23	1:G:197:LEU:H	1.69	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:917:GLN:NE2	3:N:917:GLN:HA	2.19	0.57
3:N:206:ARG:O	3:N:207:PHE:HD1	1.86	0.57
1:K:178:ALA:HB2	2:M:864:GLY:N	2.20	0.57
3:I:1220:ALA:CB	3:I:1223:ILE:HD12	2.33	0.57
4:J:53:GLY:C	4:J:55:PHE:H	2.07	0.57
2:M:265:ARG:HG2	2:M:267:TYR:CG	2.40	0.57
3:I:165:LYS:HG2	3:I:166:GLN:N	2.19	0.57
3:D:1236:LEU:HD12	3:D:1256:LEU:CD2	2.34	0.57
2:H:182:VAL:O	2:H:193:LEU:HD13	2.05	0.57
2:H:172:ILE:O	2:H:172:ILE:HG13	2.03	0.57
2:C:98:LEU:HD22	2:C:98:LEU:O	2.04	0.57
3:N:996:TRP:CA	3:N:999:THR:HG22	2.30	0.57
2:C:115:LEU:HA	2:C:375:SER:OG	2.05	0.57
3:D:695:ILE:CD1	3:D:717:GLN:HE22	2.18	0.57
3:D:644:LEU:HD23	3:D:718:PRO:HB3	1.85	0.57
1:A:81:ASN:O	1:A:127:LEU:HD21	2.04	0.57
2:H:994:ILE:HD12	2:H:994:ILE:H	1.68	0.57
1:F:84:GLU:HG2	1:F:127:LEU:CD1	2.34	0.57
3:N:1428:ALA:O	3:N:1431:THR:HG22	2.04	0.57
3:I:1472:ILE:N	3:I:1472:ILE:HD13	2.19	0.57
3:N:14:SER:HB3	3:N:16:GLU:OE1	2.04	0.57
2:M:313:LEU:HD13	2:M:321:GLU:H	1.70	0.57
1:K:67:THR:HG21	2:M:609:ASN:HD21	1.68	0.57
3:I:1233:GLY:O	3:I:1256:LEU:HD22	2.04	0.57
1:B:13:VAL:HG12	1:B:14:ARG:N	2.19	0.57
1:L:19:GLU:HG3	1:L:201:THR:O	2.04	0.57
2:C:473:ARG:HA	2:C:531:PHE:HD1	1.66	0.57
3:N:44:LEU:HD23	3:N:44:LEU:O	2.04	0.57
3:D:168:THR:HA	3:D:394:LEU:CB	2.22	0.57
1:G:35:THR:C	1:G:36:LEU:HD23	2.24	0.57
1:G:45:LEU:CA	1:G:48:ILE:HD11	2.35	0.57
2:H:858:MET:HE2	2:H:859:PRO:HD2	1.84	0.57
3:D:1273:VAL:O	3:D:1325:LEU:HB2	2.05	0.57
3:I:432:TYR:HB3	3:I:450:TYR:HB2	1.86	0.57
3:D:156:GLU:HG2	3:D:159:ARG:NH2	2.19	0.57
1:A:101:LEU:HD13	1:A:113:ASP:O	2.05	0.57
2:M:690:ILE:CG2	2:M:852:ILE:HG13	2.34	0.57
2:H:367:LEU:HB3	2:H:371:LYS:CG	2.33	0.57
2:M:26:TYR:CZ	2:M:30:LEU:HD21	2.39	0.57
1:A:24:VAL:HG22	1:A:196:THR:HG22	1.87	0.57
2:C:560:MET:O	2:C:564:MET:HG2	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:26:VAL:O	3:D:93:ILE:HD13	2.04	0.57
5:X:19:LEU:HD21	5:X:23:ARG:HH21	1.69	0.57
2:M:805:ARG:HG2	2:M:806:LEU:N	2.18	0.57
2:C:275:TYR:O	2:C:279:GLU:HB3	2.04	0.57
3:D:809:PRO:CB	3:D:812:ALA:HB2	2.22	0.57
2:H:640:ARG:HG3	2:H:657:ASP:HB2	1.85	0.57
2:H:193:LEU:H	2:H:193:LEU:HD12	1.69	0.57
3:N:733:CYS:SG	3:N:738:ALA:O	2.59	0.57
3:D:1122:LEU:HD11	3:D:1186:VAL:CG2	2.32	0.57
2:H:162:ILE:HD11	2:H:306:THR:HG21	1.86	0.57
1:A:121:GLU:HG2	1:A:122:ILE:N	2.18	0.57
2:M:852:ILE:N	2:M:852:ILE:HD12	2.20	0.57
2:H:905:ILE:HG22	2:H:906:PHE:N	2.18	0.57
3:N:112:ILE:CD1	3:N:465:LEU:HD21	2.35	0.57
2:H:475:VAL:O	2:H:478:VAL:HG23	2.04	0.57
2:H:468:ARG:HG2	2:H:487:THR:HA	1.85	0.57
3:N:1263:PHE:CE2	3:N:1371:VAL:HG11	2.40	0.57
2:M:1014:SER:CB	2:M:1019:GLN:H	2.17	0.57
3:N:354:VAL:HG12	3:N:354:VAL:O	2.05	0.57
2:M:1003:ASP:C	2:M:1004:LYS:HD3	2.25	0.57
3:N:111:LYS:CE	3:N:1449:GLU:HG2	2.33	0.57
2:H:1048:THR:HA	3:I:755:ALA:HB1	1.86	0.57
2:M:311:PHE:HA	2:M:314:THR:OG1	2.04	0.57
2:H:610:ARG:HB2	2:H:622:GLU:OE2	2.05	0.57
2:H:666:LEU:HD12	2:H:667:ALA:H	1.69	0.57
2:M:848:VAL:HG12	2:M:849:VAL:N	2.20	0.57
3:D:1194:CYS:SG	3:D:1200:VAL:HG13	2.44	0.57
1:K:229:GLN:CB	1:L:12:THR:HA	2.32	0.57
2:H:861:LEU:HD21	2:H:925:TYR:CZ	2.40	0.57
1:G:173:PRO:HB3	1:G:204:SER:HB3	1.86	0.57
2:C:547:ILE:HD12	2:C:842:ARG:O	2.04	0.57
1:L:25:LEU:O	1:L:25:LEU:HD23	2.05	0.57
1:A:176:ARG:NH2	2:C:865:THR:HB	2.20	0.57
2:C:865:THR:O	2:C:865:THR:HG23	2.04	0.57
3:I:82:LYS:HG2	3:I:83:SER:H	1.69	0.57
3:N:1266:ARG:O	3:N:1268:PRO:HD3	2.04	0.57
3:I:1161:GLU:OE2	3:I:1164:ARG:HG3	2.05	0.57
1:F:176:ARG:HG3	1:F:200:TRP:CE3	2.40	0.57
1:G:48:ILE:HD13	1:G:172:SER:OG	2.05	0.57
3:D:1348:LEU:H	3:D:1348:LEU:HD13	1.70	0.57
3:I:139:GLY:HA2	3:I:162:ARG:NH2	2.19	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:156:HIS:HD2	1:A:156:HIS:H	1.52	0.57
2:H:756:VAL:O	2:H:789:SER:HB2	2.04	0.57
2:C:355:VAL:HG23	2:C:372:LEU:HG	1.86	0.57
3:D:564:GLU:HB2	2:H:223:ASP:HA	1.87	0.57
3:D:643:GLY:HA3	3:D:727:GLN:HB2	1.86	0.57
4:O:9:LEU:HD22	4:O:68:LEU:HD23	1.86	0.57
3:D:1147:ARG:HB3	3:D:1188:VAL:CG2	2.29	0.57
2:M:688:ILE:HG12	2:M:848:VAL:O	2.05	0.57
3:I:470:LEU:HD21	3:I:508:ARG:HD3	1.87	0.57
2:H:217:LEU:CD2	2:H:217:LEU:H	2.13	0.57
3:N:1493:LYS:CA	3:N:1493:LYS:HE2	2.32	0.57
3:N:1368:ILE:O	3:N:1372:VAL:HG12	2.04	0.57
3:N:17:LYS:HA	3:N:20:SER:OG	2.04	0.57
3:I:18:ILE:HD13	3:I:516:ALA:O	2.05	0.57
5:X:29:ILE:HD12	5:X:58:ASN:HD22	1.70	0.57
1:K:11:PHE:HB2	1:L:224:TYR:O	2.05	0.57
3:I:1294:VAL:O	3:I:1294:VAL:HG12	2.04	0.57
3:N:1486:VAL:HG21	4:O:25:LYS:HB3	1.87	0.57
1:G:13:VAL:HG12	1:G:14:ARG:H	1.69	0.57
2:H:64:LEU:HD21	2:H:355:VAL:HG22	1.87	0.57
3:I:1062:ARG:HD3	3:I:1062:ARG:O	2.04	0.57
3:D:1320:GLU:N	3:D:1323:GLN:NE2	2.42	0.57
2:H:196:LEU:HD13	2:H:197:LEU:N	2.20	0.57
3:D:704:ARG:HB2	3:D:736:PHE:HB3	1.87	0.57
3:I:817:GLU:O	3:I:820:GLU:HB3	2.04	0.57
3:N:718:PRO:O	3:N:719:VAL:HG13	2.04	0.57
2:C:858:MET:HA	2:C:858:MET:HE3	1.87	0.57
2:H:1060:ILE:O	2:H:1063:ARG:HB3	2.05	0.57
2:M:726:ILE:HD13	2:M:730:SER:N	2.20	0.57
3:D:1373:ARG:HD3	3:D:1374:GLN:HE22	1.70	0.57
2:H:473:ARG:HE	2:H:531:PHE:HE1	1.52	0.57
1:B:227:ASN:HD22	1:B:227:ASN:N	2.03	0.57
2:H:599:GLU:HB3	2:H:615:TYR:CD2	2.40	0.57
1:A:31:GLY:HA2	1:A:193:ASP:OD2	2.04	0.57
3:D:1283:ILE:HG22	3:D:1284:GLU:N	2.19	0.57
1:B:159:LYS:N	1:B:159:LYS:HD3	2.19	0.57
3:I:18:ILE:HG23	3:I:518:PRO:HG3	1.86	0.57
2:H:1107:ASN:ND2	3:I:2:LYS:NZ	2.53	0.57
3:N:1175:ILE:O	3:N:1179:GLU:HG2	2.04	0.57
2:C:1088:LEU:HG	3:D:613:ARG:HD2	1.85	0.57
3:N:1330:ILE:HD13	3:N:1347:TYR:CZ	2.40	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:697:ARG:HD2	2:M:699:PHE:CE1	2.40	0.57
3:N:1356:TYR:HB3	3:N:1361:VAL:HB	1.85	0.57
3:I:154:THR:OG1	3:I:157:GLU:HG2	2.03	0.57
3:D:1046:GLN:HA	3:D:1052:THR:HA	1.87	0.57
1:F:68:ILE:HD12	1:F:68:ILE:N	2.19	0.57
3:D:975:GLU:OE1	3:D:988:ARG:HD3	2.04	0.57
3:I:16:GLU:HA	3:I:19:ARG:NH1	2.19	0.57
2:M:542:VAL:CG1	2:M:546:LEU:HD21	2.35	0.57
3:N:50:PHE:CD2	3:N:522:PRO:HD3	2.40	0.57
1:F:177:VAL:CG2	1:F:199:ILE:HG23	2.28	0.57
3:N:1146:GLY:CA	3:N:1207:TYR:HB2	2.35	0.57
1:B:201:THR:HG21	1:B:205:VAL:O	2.04	0.57
2:H:265:ARG:HD3	2:H:267:TYR:CD1	2.40	0.57
2:H:205:GLU:CD	2:H:206:THR:H	2.08	0.57
3:N:603:LEU:O	3:N:607:LEU:HG	2.05	0.57
2:H:576:ALA:HB1	2:H:580:MET:HE3	1.87	0.57
1:K:57:TYR:CE2	1:K:161:ARG:HD2	2.39	0.57
3:I:1148:VAL:O	3:I:1188:VAL:HG23	2.04	0.57
2:C:852:ILE:HD12	2:C:852:ILE:N	2.18	0.57
3:N:95:LEU:HD23	3:N:96:ALA:N	2.19	0.57
3:N:1109:GLU:CD	3:N:1201:CYS:HA	2.25	0.57
4:O:35:PHE:O	4:O:36:LYS:HE2	2.05	0.57
3:D:928:ALA:HA	3:D:931:LEU:HD12	1.87	0.57
3:I:1149:LEU:HD23	3:I:1149:LEU:H	1.69	0.57
2:M:497:ALA:HA	2:M:515:ALA:HA	1.87	0.57
2:M:913:GLU:O	2:M:916:GLU:HB3	2.05	0.57
3:I:795:VAL:HG13	3:I:861:GLN:O	2.04	0.56
2:M:805:ARG:HG3	2:M:823:VAL:HG23	1.87	0.56
3:N:1465:ASN:ND2	3:N:1470:ARG:HB3	2.20	0.56
3:N:520:LEU:CG	3:N:524:LEU:HD23	2.34	0.56
3:N:809:PRO:O	3:N:812:ALA:CB	2.52	0.56
2:M:267:TYR:CD2	2:M:267:TYR:N	2.71	0.56
3:D:484:PRO:HB3	3:D:488:ARG:CD	2.35	0.56
3:D:1236:LEU:HB2	3:D:1256:LEU:HD23	1.87	0.56
2:H:162:ILE:HB	2:H:172:ILE:CG1	2.34	0.56
1:G:67:THR:HG21	1:L:159:LYS:CE	2.30	0.56
3:D:716:PHE:HZ	3:D:732:VAL:HG11	1.69	0.56
3:D:151:GLN:HG3	3:D:152:LEU:H	1.70	0.56
3:I:803:GLY:O	3:I:805:GLU:HG3	2.05	0.56
5:X:45:ASN:O	5:X:48:TYR:N	2.38	0.56
3:N:1481:VAL:HG13	4:O:18:ARG:HD3	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:710:ILE:HB	2:C:790:LEU:CD1	2.34	0.56
3:I:1205:TYR:CZ	3:I:1366:LYS:HD3	2.39	0.56
3:D:432:TYR:HB3	3:D:450:TYR:CG	2.40	0.56
3:N:1345:GLU:HA	3:N:1348:LEU:HD22	1.87	0.56
2:H:132:ALA:HB1	2:H:394:PHE:HE1	1.70	0.56
3:D:25:GLU:HB2	3:D:92:HIS:CE1	2.40	0.56
2:C:227:PHE:C	2:C:229:MET:H	2.09	0.56
3:D:1304:LYS:HB3	3:D:1304:LYS:NZ	2.19	0.56
2:C:286:SER:HB3	2:C:299:LYS:NZ	2.20	0.56
1:F:35:THR:CG2	1:G:43:ILE:HD11	2.28	0.56
2:M:21:ILE:HG22	2:M:22:GLN:NE2	2.21	0.56
2:H:146:VAL:HG11	2:H:281:LEU:HD22	1.86	0.56
5:Y:115:THR:HB	5:Y:116:PRO:CD	2.28	0.56
1:B:186:LEU:HD23	1:B:186:LEU:O	2.05	0.56
2:C:1008:ARG:HG2	2:C:1008:ARG:HH11	1.69	0.56
3:D:643:GLY:O	3:D:644:LEU:HB2	2.04	0.56
2:M:1008:ARG:NH2	2:M:1011:GLY:N	2.53	0.56
5:X:42:LEU:O	5:X:43:ARG:CG	2.53	0.56
2:H:605:LYS:HD2	2:H:612:VAL:HG21	1.85	0.56
3:I:1015:TYR:HB3	3:I:1018:ASN:HB2	1.86	0.56
3:N:15:PRO:HA	3:N:18:ILE:CD1	2.36	0.56
3:N:661:MET:HE1	3:N:677:LEU:HD11	1.87	0.56
3:D:1198:TYR:OH	3:D:1432:LYS:HE2	2.05	0.56
3:I:445:ARG:HH11	3:I:445:ARG:HG2	1.68	0.56
2:C:612:VAL:HG22	2:C:622:GLU:CG	2.35	0.56
3:N:1236:LEU:CB	3:N:1256:LEU:HB2	2.35	0.56
3:N:1152:GLU:HG2	3:N:1160:LEU:O	2.06	0.56
1:F:9:PRO:HG3	1:F:27:PRO:O	2.06	0.56
4:E:49:GLN:HG3	4:E:50:THR:H	1.69	0.56
1:G:13:VAL:HG12	1:G:14:ARG:N	2.20	0.56
3:N:563:PRO:HB2	3:N:566:ILE:HG12	1.86	0.56
2:C:557:ARG:HG3	2:C:557:ARG:HH11	1.70	0.56
3:I:569:ASN:HA	3:I:572:ARG:HD2	1.86	0.56
2:M:97:ARG:HG3	2:M:112:GLU:OE1	2.04	0.56
3:D:1007:VAL:HG12	3:D:1011:PHE:CE2	2.40	0.56
3:N:804:LEU:HD11	3:N:830:ALA:C	2.26	0.56
2:M:860:HIS:HE1	2:M:977:GLY:HA2	1.70	0.56
2:C:271:GLU:OE1	2:C:464:LEU:HD21	2.05	0.56
2:C:260:LEU:HD23	2:C:260:LEU:O	2.05	0.56
3:D:834:THR:HA	3:D:838:ARG:NH1	2.19	0.56
3:I:702:LEU:HD23	3:I:716:PHE:CD1	2.41	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:825:VAL:HG13	2:C:825:VAL:O	2.04	0.56
2:C:1046:ALA:HA	3:D:1472:ILE:HD11	1.86	0.56
3:I:199:LEU:HD23	3:I:200:ASP:N	2.20	0.56
3:I:141:ILE:HD12	3:I:448:GLU:CG	2.34	0.56
3:D:1353:GLN:HB3	3:D:1357:ARG:NE	2.19	0.56
2:H:302:VAL:HG22	2:H:303:PHE:CD1	2.40	0.56
3:D:131:LYS:HE3	2:H:219:GLN:NE2	2.21	0.56
2:C:1009:SER:HB2	3:D:652:LEU:HA	1.86	0.56
3:D:106:LYS:HB3	3:D:586:ARG:HD2	1.87	0.56
3:I:105:VAL:HG22	3:I:112:ILE:HG21	1.86	0.56
3:D:1365:ASP:O	3:D:1369:GLU:HG3	2.06	0.56
3:I:1465:ASN:ND2	3:I:1470:ARG:HB3	2.14	0.56
2:M:557:ARG:HH11	2:M:557:ARG:HG3	1.70	0.56
1:B:100:LEU:HD23	1:B:115:LEU:HD11	1.88	0.56
5:Z:106:SER:HA	5:Z:121:ASP:HB2	1.85	0.56
3:N:543:LEU:HD21	3:N:600:LEU:HB2	1.88	0.56
3:D:136:ASP:HB3	3:D:137:PRO:HD3	1.87	0.56
2:M:332:ARG:HB3	2:M:332:ARG:NH1	2.17	0.56
3:D:141:ILE:HG22	3:D:142:LEU:N	2.21	0.56
3:N:112:ILE:O	3:N:115:LEU:HB3	2.05	0.56
2:M:15:LEU:HD23	2:M:586:ARG:HE	1.70	0.56
1:B:106:PRO:HG2	1:B:134:GLU:CD	2.25	0.56
2:H:1077:PRO:O	2:H:1079:PRO:HD3	2.06	0.56
3:D:53:ILE:HB	3:D:86:ARG:NH1	2.20	0.56
3:D:887:ALA:HB1	3:D:893:GLU:HG3	1.87	0.56
3:I:811:GLU:O	3:I:815:ALA:N	2.37	0.56
1:K:52:ALA:CB	1:K:170:VAL:HG22	2.35	0.56
3:D:1389:LEU:HD23	3:D:1390:LEU:HG	1.88	0.56
3:N:901:GLN:HB2	3:N:904:VAL:HG22	1.88	0.56
2:H:693:GLU:HB2	2:H:855:VAL:HB	1.87	0.56
2:H:517:ARG:HG2	2:H:518:LYS:HG3	1.85	0.56
2:M:601:GLY:HA2	2:M:616:GLU:CD	2.25	0.56
1:L:206:THR:CG2	1:L:208:LEU:HB3	2.36	0.56
3:N:481:MET:O	3:N:489:ARG:HB2	2.05	0.56
2:M:949:LYS:HD3	3:N:796:ARG:HH21	1.70	0.56
2:M:966:LEU:HD21	2:M:986:PRO:HG2	1.88	0.56
2:C:145:GLY:HA3	2:C:276:LYS:HG2	1.88	0.56
1:B:65:PHE:CE1	3:D:813:LEU:HD13	2.40	0.56
3:I:701:LEU:C	3:I:702:LEU:HD22	2.26	0.56
3:N:1272:ALA:HA	3:N:1326:THR:CB	2.33	0.56
2:H:139:GLN:NE2	2:H:414:GLY:HA3	2.20	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:806:LEU:HB2	2:C:822:VAL:HG23	1.86	0.56
1:A:140:MET:CE	1:A:142:VAL:HG13	2.34	0.56
3:I:770:LEU:HD22	3:I:1211:MET:O	2.05	0.56
1:L:186:LEU:HB2	1:L:192:LEU:HD11	1.87	0.56
2:M:1029:GLY:HA3	3:N:623:VAL:O	2.06	0.56
2:C:666:LEU:HD12	2:C:667:ALA:N	2.19	0.56
3:D:366:LYS:HE2	3:D:369:ALA:CB	2.36	0.56
5:Z:123:SER:O	5:Z:127:LYS:N	2.38	0.56
1:K:189:ARG:NH1	1:K:189:ARG:HG3	2.20	0.56
2:H:627:ARG:O	2:H:638:ASP:HA	2.05	0.56
3:D:98:PRO:O	3:D:458:ALA:HB3	2.06	0.56
2:C:402:SER:HA	2:C:566:THR:HG23	1.87	0.56
2:C:676:ILE:HD11	2:C:873:PRO:CA	2.36	0.56
3:N:111:LYS:NZ	3:N:1449:GLU:HG2	2.21	0.56
3:I:766:ALA:HB1	4:J:2:ALA:HB2	1.87	0.56
3:D:10:ILE:HG12	3:D:1451:ALA:HA	1.87	0.56
3:D:1452:ILE:H	3:D:1452:ILE:HD12	1.70	0.56
3:D:1235:GLN:O	3:D:1236:LEU:HD23	2.06	0.56
2:H:267:TYR:CD2	2:H:267:TYR:N	2.72	0.56
2:H:313:LEU:HD12	2:H:314:THR:N	2.19	0.56
3:N:756:GLN:O	3:N:760:ARG:HG2	2.06	0.56
2:C:858:MET:HE2	2:C:859:PRO:HD2	1.86	0.56
1:A:86:VAL:HG13	1:A:86:VAL:O	2.05	0.56
2:H:1052:MET:HA	2:H:1052:MET:CE	2.35	0.56
2:M:575:GLN:OE1	2:M:670:GLN:HB3	2.05	0.56
2:M:477:GLY:O	2:M:507:ARG:HG3	2.04	0.56
2:H:471:TYR:N	2:H:483:VAL:HG13	2.21	0.56
2:H:496:ILE:H	2:H:496:ILE:HD12	1.69	0.56
1:G:205:VAL:CG2	1:G:209:GLU:HB2	2.35	0.56
3:D:31:THR:HG23	3:D:545:ARG:HD3	1.86	0.56
5:X:128:ALA:HB2	5:X:140:LEU:HD21	1.88	0.56
3:D:486:ARG:HA	3:D:489:ARG:HD3	1.88	0.56
2:C:860:HIS:HE1	2:C:977:GLY:HA2	1.71	0.56
1:A:11:PHE:HB2	1:B:224:TYR:O	2.05	0.56
3:N:1330:ILE:HD12	3:N:1330:ILE:N	2.19	0.56
2:M:601:GLY:HA2	2:M:616:GLU:OE1	2.06	0.56
2:M:276:LYS:HD2	2:M:276:LYS:H	1.71	0.56
3:I:1128:VAL:HG21	5:Y:23:ARG:NH2	2.21	0.56
3:I:879:ARG:HH22	3:I:904:VAL:C	2.07	0.56
3:N:108:VAL:HB	3:N:109:PRO:CD	2.20	0.56
3:N:12:LEU:H	3:N:12:LEU:CD2	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:109:PRO:HB3	3:N:494:LYS:HZ3	1.71	0.56
3:N:851:LEU:HD23	3:N:851:LEU:N	2.20	0.56
2:C:282:GLY:O	2:C:283:ILE:HD13	2.06	0.56
3:D:815:ALA:HA	3:D:818:ARG:CD	2.36	0.56
2:C:508:ILE:HG22	2:C:509:ALA:N	2.20	0.56
1:F:195:LEU:HD12	1:F:196:THR:N	2.21	0.56
3:I:417:PRO:HG3	3:I:430:ASP:C	2.26	0.56
3:N:704:ARG:HH11	3:N:705:ALA:H	1.53	0.56
1:B:45:LEU:HD23	1:B:174:VAL:HB	1.88	0.56
2:H:344:PHE:CD2	2:H:378:LEU:HD11	2.41	0.56
2:C:72:ARG:C	2:C:73:LEU:HD12	2.25	0.56
3:D:735:ALA:HB2	3:D:778:LEU:HD21	1.87	0.56
2:H:486:MET:CE	2:H:491:GLU:HA	2.36	0.56
2:C:839:LEU:HD21	2:C:849:VAL:CG2	2.35	0.56
2:H:108:ILE:N	2:H:108:ILE:HD13	2.20	0.56
1:A:89:PHE:HD2	1:A:146:ARG:HD2	1.70	0.56
2:C:994:ILE:N	2:C:994:ILE:HD12	2.21	0.56
1:B:28:LEU:HB2	1:B:193:ASP:HB2	1.87	0.56
2:C:542:VAL:O	2:C:546:LEU:HG	2.06	0.56
1:G:179:PHE:O	1:G:180:GLN:HG2	2.05	0.56
1:B:14:ARG:HH22	1:B:24:VAL:HG23	1.69	0.56
2:M:756:VAL:HG13	2:M:790:LEU:HD22	1.86	0.56
2:C:200:LEU:HD13	2:C:300:ASP:OD2	2.05	0.56
3:N:1472:ILE:HD13	3:N:1472:ILE:N	2.05	0.56
2:H:174:LEU:HD22	2:H:193:LEU:HD21	1.87	0.56
3:D:122:GLU:O	3:D:126:VAL:HG23	2.05	0.56
3:D:117:ASP:HB2	3:D:495:ARG:HH12	1.71	0.56
3:N:696:HIS:CE1	4:O:54:LEU:HD11	2.41	0.56
2:C:89:THR:HG21	2:C:383:ARG:HH22	1.70	0.56
1:A:180:GLN:HB3	1:A:182:GLU:OE2	2.05	0.56
3:N:657:LEU:O	3:N:661:MET:HG2	2.05	0.56
3:I:770:LEU:HD22	3:I:1209:LEU:O	2.05	0.56
2:C:906:PHE:CE1	3:D:1067:VAL:HA	2.41	0.56
1:K:229:GLN:HB3	1:L:12:THR:CA	2.33	0.56
2:C:6:PHE:CE1	2:C:909:ALA:HB2	2.40	0.56
1:L:52:ALA:O	1:L:144:VAL:HG13	2.05	0.56
1:G:212:ASN:O	1:G:215:VAL:HG22	2.06	0.56
3:D:14:SER:O	3:D:18:ILE:HG12	2.06	0.56
3:I:1359:GLN:HA	3:I:1359:GLN:HE21	1.71	0.56
1:G:30:ARG:CB	1:G:30:ARG:HH11	2.18	0.56
2:C:860:HIS:CE1	2:C:977:GLY:HA2	2.41	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:224:GLU:HB3	2:C:228:ALA:CB	2.36	0.56
1:B:105:GLY:O	1:B:107:LYS:HG2	2.04	0.56
3:N:857:ILE:HG22	3:N:858:VAL:HG13	1.88	0.56
5:Y:91:LEU:HB3	5:Y:149:PHE:HB3	1.88	0.56
2:M:243:ARG:HB2	2:M:244:PRO:HD3	1.87	0.56
1:G:26:GLU:HB2	1:G:27:PRO:HA	1.88	0.56
3:D:1281:VAL:HG23	3:D:1317:ASP:O	2.05	0.56
3:I:785:ILE:HG13	3:I:939:PHE:CE2	2.41	0.56
3:I:563:PRO:CB	3:I:566:ILE:HD13	2.35	0.56
2:C:873:PRO:O	2:C:876:VAL:HG23	2.06	0.56
2:M:806:LEU:O	2:M:821:GLU:HB2	2.06	0.56
2:C:267:TYR:HB2	2:C:272:ALA:HB1	1.87	0.56
2:C:257:VAL:HG12	2:C:263:ASP:OD1	2.06	0.56
3:N:1434:TRP:NE1	3:N:1435:LEU:HD13	2.21	0.56
3:N:514:LEU:HD12	3:N:514:LEU:O	2.05	0.56
3:D:702:LEU:CD2	3:D:728:LEU:HD13	2.35	0.56
3:I:1381:VAL:HG22	3:I:1398:TRP:CZ2	2.39	0.56
2:M:1050:GLN:HA	2:M:1053:LEU:HG	1.87	0.56
5:Y:142:THR:HG22	5:Y:144:LYS:HG2	1.87	0.56
3:N:1345:GLU:O	3:N:1349:VAL:HG22	2.05	0.56
2:C:437:ARG:HH22	2:C:488:ALA:N	2.04	0.56
3:N:1286:THR:O	3:N:1287:GLU:CB	2.54	0.56
2:M:15:LEU:H	2:M:15:LEU:HD13	1.71	0.56
3:D:1155:VAL:C	3:D:1157:GLY:H	2.10	0.56
3:I:23:TYR:O	3:I:49:ILE:HA	2.06	0.56
2:C:576:ALA:HB3	2:C:900:ARG:HH11	1.68	0.56
1:F:62:LEU:N	1:F:62:LEU:HD12	2.21	0.56
3:N:1093:TYR:CE2	3:N:1097:LYS:HD2	2.41	0.56
2:C:835:VAL:HG13	2:C:836:GLY:N	2.21	0.56
1:A:183:ASP:HA	2:C:938:LYS:NZ	2.21	0.56
1:B:213:GLN:O	1:B:217:ILE:HG12	2.05	0.56
3:N:548:ILE:H	3:N:548:ILE:HD12	1.70	0.56
2:M:926:PHE:HA	2:M:929:ARG:HG3	1.87	0.56
2:C:678:PRO:HG3	2:C:873:PRO:HD2	1.88	0.56
3:D:814:ALA:O	3:D:818:ARG:HG3	2.05	0.56
2:C:751:PRO:HG3	2:C:796:GLU:HA	1.86	0.56
2:H:281:LEU:CD1	2:H:306:THR:HA	2.36	0.56
3:N:974:ILE:HG13	5:Z:113:LEU:HD21	1.88	0.56
2:H:211:LEU:HD23	2:H:218:VAL:HG23	1.88	0.56
2:C:673:LEU:CD2	2:C:868:ASP:H	2.14	0.56
2:C:332:ARG:HH21	2:C:338:GLU:CD	2.09	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:161:ARG:HB2	1:F:161:ARG:NH1	2.21	0.56
1:G:106:PRO:HG3	1:G:134:GLU:N	2.20	0.56
3:I:1379:VAL:HG22	3:I:1398:TRP:NE1	2.21	0.56
1:G:117:VAL:HG12	1:G:118:ALA:N	2.18	0.56
1:F:222:LEU:HD21	1:G:218:LEU:CD2	2.36	0.56
3:I:365:ASP:O	3:I:379:ALA:HB2	2.05	0.56
3:D:414:ARG:HB3	3:D:450:TYR:HE1	1.71	0.56
2:M:607:ASP:HB2	2:M:610:ARG:HG2	1.88	0.56
1:L:111:ALA:O	1:L:114:PHE:HD1	1.89	0.56
2:C:917:LEU:O	2:C:920:GLN:HB3	2.06	0.56
3:I:1344:VAL:HG12	3:I:1348:LEU:HD21	1.87	0.56
3:D:650:LEU:HD22	3:D:688:TRP:CH2	2.41	0.56
2:M:325:ILE:H	2:M:325:ILE:HD12	1.70	0.56
2:H:317:VAL:HG13	2:H:320:HIS:ND1	2.20	0.56
3:N:849:ALA:O	3:N:853:VAL:HG23	2.06	0.56
3:N:39:PRO:HG2	3:N:45:PHE:O	2.06	0.56
3:I:879:ARG:NH2	3:I:904:VAL:C	2.59	0.56
3:I:540:LEU:CD1	3:I:540:LEU:H	2.13	0.56
2:C:267:TYR:N	2:C:267:TYR:CD2	2.72	0.56
1:F:32:PHE:O	1:F:36:LEU:HG	2.06	0.56
2:H:676:ILE:CG2	2:H:988:VAL:HG13	2.31	0.56
2:M:139:GLN:HA	2:M:411:SER:O	2.06	0.56
2:M:157:ARG:HG3	2:M:314:THR:HG22	1.88	0.56
2:H:283:ILE:N	2:H:283:ILE:HD13	2.21	0.56
2:H:194:VAL:HG11	2:H:224:GLU:HB2	1.87	0.56
3:I:813:LEU:C	3:I:813:LEU:HD12	2.25	0.56
2:H:1052:MET:HE1	2:H:1056:LYS:CE	2.36	0.56
2:C:139:GLN:OE1	2:C:334:ARG:HD3	2.06	0.56
2:C:334:ARG:HD2	2:C:418:LEU:CD2	2.35	0.56
1:F:79:ILE:HG13	1:F:80:LEU:H	1.70	0.56
3:D:1424:VAL:HG13	3:D:1425:THR:H	1.71	0.56
3:D:859:ASP:O	3:D:877:PRO:HG2	2.06	0.56
2:M:833:LEU:CD1	2:M:996:LYS:HD2	2.32	0.56
5:Z:73:VAL:HG12	5:Z:74:ILE:N	2.18	0.56
3:D:1219:GLU:O	3:D:1221:VAL:HG23	2.05	0.56
3:I:1166:LEU:H	3:I:1166:LEU:CD2	2.18	0.56
3:I:1209:LEU:CG	3:I:1210:SER:N	2.69	0.56
1:K:229:GLN:HG2	1:L:12:THR:HG22	1.88	0.56
3:D:1293:PHE:HD2	3:D:1300:SER:HB2	1.71	0.56
2:H:440:PRO:HA	3:I:1078:ARG:HH21	1.70	0.56
2:C:442:GLU:HG2	2:C:454:SER:CB	2.35	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:516:ALA:O	3:I:518:PRO:HD3	2.05	0.56
3:D:1121:PRO:HB2	3:D:1135:ARG:HH12	1.71	0.56
3:I:1236:LEU:CD1	3:I:1256:LEU:HD13	2.36	0.56
3:I:1353:GLN:HB3	3:I:1357:ARG:NE	2.21	0.56
3:I:966:GLU:O	3:I:970:LYS:HB2	2.05	0.56
3:D:494:LYS:HA	3:D:497:GLU:OE2	2.06	0.56
5:Z:38:GLU:C	5:Z:40:GLY:N	2.58	0.56
3:D:786:ILE:O	3:D:787:LEU:C	2.44	0.55
2:M:756:VAL:HG22	2:M:790:LEU:HD22	1.88	0.55
2:C:251:ASP:C	2:C:253:ALA:H	2.08	0.55
3:I:109:PRO:O	3:I:111:LYS:HD2	2.06	0.55
2:H:878:SER:HA	3:I:1034:GLN:HE22	1.71	0.55
2:M:456:ALA:HB3	2:M:459:ALA:HB3	1.88	0.55
2:M:721:ARG:HA	2:M:820:ARG:NH2	2.21	0.55
2:M:159:ILE:HD12	2:M:159:ILE:O	2.06	0.55
3:D:1207:TYR:HE2	3:D:1214:PRO:HD3	1.71	0.55
3:N:142:LEU:O	3:N:143:ASN:HB3	2.06	0.55
1:A:32:PHE:CE2	1:B:43:ILE:HD12	2.42	0.55
1:L:102:LYS:HG3	1:L:139:ASN:HB2	1.87	0.55
1:F:100:LEU:CD1	1:F:102:LYS:HZ1	2.10	0.55
2:M:840:ALA:CB	2:M:846:LYS:HA	2.33	0.55
2:H:482:GLU:HG2	2:H:483:VAL:N	2.20	0.55
3:N:465:LEU:HD13	3:N:509:PRO:O	2.06	0.55
1:G:206:THR:HG22	1:G:209:GLU:OE1	2.05	0.55
2:H:398:THR:CA	2:H:633:GLN:HG3	2.35	0.55
3:D:7:LYS:HE2	3:D:1458:GLU:OE2	2.06	0.55
3:N:1496:GLU:CA	3:N:1499:ARG:HH21	2.19	0.55
2:M:850:ALA:HA	3:N:632:VAL:CG1	2.35	0.55
3:I:895:VAL:HG13	3:I:921:ARG:NH1	2.21	0.55
2:M:205:GLU:CD	2:M:206:THR:H	2.09	0.55
2:H:500:ASN:ND2	2:H:500:ASN:N	2.53	0.55
3:I:1021:TYR:CZ	3:I:1025:GLN:HG3	2.41	0.55
3:N:787:LEU:HG	3:N:942:SER:OG	2.06	0.55
3:I:1283:ILE:HG22	3:I:1284:GLU:N	2.21	0.55
3:I:709:HIS:H	3:I:709:HIS:CD2	2.22	0.55
2:C:922:PHE:HB2	2:C:967:PHE:CD2	2.41	0.55
1:A:36:LEU:HD22	1:A:40:LEU:HD11	1.88	0.55
1:K:32:PHE:CZ	1:L:43:ILE:HD12	2.41	0.55
1:K:175:ARG:HB3	1:K:200:TRP:HB2	1.88	0.55
3:N:834:THR:HA	3:N:838:ARG:NH1	2.21	0.55
2:C:238:LEU:O	2:C:241:LEU:HB2	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:706:GLU:HB3	2:H:708:TYR:CE1	2.41	0.55
3:N:137:PRO:HD2	3:N:453:ASP:O	2.06	0.55
2:H:154:ARG:HH22	2:H:178:PRO:CD	2.19	0.55
1:F:74:ASP:CG	1:F:77:GLU:HG3	2.26	0.55
2:C:205:GLU:CG	2:C:206:THR:N	2.69	0.55
3:N:116:LEU:HD22	3:N:116:LEU:O	2.06	0.55
3:I:150:ARG:CZ	3:I:468:LEU:HD11	2.36	0.55
2:H:119:PRO:HG2	2:H:386:PHE:CD2	2.41	0.55
4:O:35:PHE:C	4:O:36:LYS:HG2	2.27	0.55
3:N:1095:THR:HG23	3:N:1230:GLY:HA3	1.88	0.55
2:M:890:LEU:HD22	2:M:901:TYR:CD1	2.42	0.55
1:F:128:HIS:CE1	1:F:131:THR:HG23	2.40	0.55
5:X:92:GLU:HG3	5:X:98:GLU:O	2.06	0.55
2:C:969:GLN:HE21	2:C:971:LYS:HE3	1.71	0.55
2:C:328:LEU:HA	2:C:331:ARG:HB2	1.87	0.55
1:F:24:VAL:HG22	1:F:196:THR:HG22	1.87	0.55
1:K:80:LEU:HD23	1:K:81:ASN:N	2.20	0.55
3:N:143:ASN:HB2	3:N:161:LEU:HD13	1.88	0.55
2:M:557:ARG:HA	2:M:560:MET:HG3	1.88	0.55
3:N:844:ALA:HB1	3:N:867:ARG:NH2	2.16	0.55
1:G:85:LEU:HA	1:G:124:ASN:ND2	2.14	0.55
3:D:1495:ILE:HG23	4:E:84:ARG:NH1	2.21	0.55
3:N:1360:GLY:C	5:Z:37:LEU:HD12	2.27	0.55
4:O:41:GLU:HA	4:O:45:ARG:CD	2.36	0.55
5:Z:139:SER:OG	5:Z:140:LEU:N	2.39	0.55
2:M:424:GLY:O	2:M:428:ARG:HG3	2.06	0.55
2:C:598:GLU:O	2:C:651:LYS:HG3	2.06	0.55
3:N:401:TYR:C	3:N:443:VAL:HG23	2.26	0.55
2:C:10:ARG:NH1	2:C:10:ARG:HA	2.20	0.55
3:D:470:LEU:H	3:D:470:LEU:HD23	1.71	0.55
2:H:909:ALA:HB1	2:H:914:ILE:HD11	1.89	0.55
3:N:46:ASP:OD2	3:N:48:ARG:HB3	2.06	0.55
1:K:42:ARG:NH1	1:L:34:VAL:HB	2.19	0.55
2:C:679:PHE:HB2	2:C:683:ASN:ND2	2.19	0.55
2:C:684:PHE:CG	2:C:685:GLU:N	2.74	0.55
2:H:69:LEU:HG	2:H:98:LEU:HA	1.88	0.55
2:M:756:VAL:O	2:M:789:SER:HB3	2.07	0.55
3:D:521:PRO:C	3:D:525:ARG:HH12	2.10	0.55
3:N:1189:ARG:NH1	3:N:1189:ARG:HG3	2.20	0.55
1:F:172:SER:O	1:F:174:VAL:N	2.34	0.55
3:D:107:ASP:O	3:D:108:VAL:C	2.44	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:1098:LEU:CD2	3:I:1229:ILE:HB	2.37	0.55
3:I:649:ALA:O	3:I:653:PHE:HB2	2.06	0.55
2:M:408:ARG:HH21	2:M:455:LEU:HD11	1.71	0.55
2:H:333:ILE:H	2:H:465:GLY:CA	2.15	0.55
3:I:189:GLN:HE22	3:I:191:LEU:HD23	1.70	0.55
2:C:376:ARG:HB3	2:C:377:PRO:CD	2.30	0.55
3:D:709:HIS:CD2	3:D:709:HIS:H	2.23	0.55
3:D:769:LEU:O	3:D:778:LEU:HB2	2.07	0.55
3:D:478:LEU:HA	3:D:481:MET:HG3	1.87	0.55
2:C:739:GLU:HG2	2:C:740:GLU:H	1.69	0.55
3:D:1422:MET:HE2	3:D:1426:LYS:HB3	1.88	0.55
2:H:115:LEU:CA	2:H:375:SER:HB2	2.36	0.55
1:A:212:ASN:N	1:A:212:ASN:ND2	2.54	0.55
3:D:127:LEU:HD21	3:D:461:ILE:HD11	1.88	0.55
1:L:184:THR:HG23	1:L:192:LEU:HB2	1.86	0.55
2:H:472:ARG:NH1	2:H:481:ASP:HA	2.21	0.55
3:D:1277:ILE:H	3:D:1277:ILE:HD12	1.70	0.55
3:N:690:ALA:O	3:N:693:GLU:HB3	2.06	0.55
2:M:44:ILE:H	2:M:44:ILE:CD1	2.19	0.55
1:B:159:LYS:O	1:B:159:LYS:HG2	2.07	0.55
2:M:239:PHE:CZ	2:M:252:LYS:HA	2.40	0.55
1:B:90:LEU:CB	1:B:119:ASP:HB3	2.35	0.55
3:D:1118:ILE:HG12	3:D:1190:SER:HB3	1.88	0.55
2:M:750:LYS:HE3	2:M:750:LYS:HA	1.87	0.55
2:C:224:GLU:HB3	2:C:228:ALA:HB2	1.89	0.55
3:N:376:GLU:O	3:N:378:ILE:HG13	2.07	0.55
3:I:783:ARG:N	3:I:783:ARG:HD2	2.22	0.55
2:C:270:GLY:CA	2:C:274:ARG:HD3	2.21	0.55
2:M:177:GLU:OE2	2:M:179:ASN:HB2	2.06	0.55
3:N:695:ILE:HD11	3:N:717:GLN:NE2	2.21	0.55
2:C:205:GLU:CG	2:C:206:THR:H	2.19	0.55
3:D:407:VAL:HG21	3:D:437:VAL:CG1	2.37	0.55
1:L:112:ARG:HD2	1:L:125:PRO:HB3	1.88	0.55
2:H:89:THR:HA	2:H:129:ILE:O	2.05	0.55
3:I:1104:GLU:CD	3:I:1104:GLU:H	2.10	0.55
3:D:974:ILE:N	3:D:974:ILE:HD12	2.22	0.55
2:M:654:LEU:HD23	2:M:654:LEU:H	1.71	0.55
1:L:44:LEU:O	1:L:45:LEU:HD23	2.06	0.55
2:M:376:ARG:CB	2:M:377:PRO:HD3	2.36	0.55
2:M:676:ILE:CG2	2:M:988:VAL:HG13	2.34	0.55
2:C:1081:VAL:HG13	2:C:1085:PHE:HB3	1.87	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:812:ALA:HA	3:N:816:HIS:ND1	2.21	0.55
3:N:814:ALA:HA	3:N:817:GLU:OE1	2.07	0.55
2:M:292:ARG:CG	2:M:299:LYS:HG2	2.37	0.55
1:B:48:ILE:HG22	1:B:172:SER:HA	1.89	0.55
2:H:227:PHE:C	2:H:229:MET:H	2.10	0.55
3:N:637:LEU:CD2	3:N:642:CYS:HA	2.37	0.55
2:H:735:ARG:CZ	2:H:735:ARG:HB2	2.34	0.55
2:C:905:ILE:H	2:C:905:ILE:HD12	1.71	0.55
2:H:551:GLU:HG3	2:H:552:HIS:CD2	2.42	0.55
3:I:671:LYS:HB3	3:I:675:ARG:HH21	1.72	0.55
2:C:647:GLN:O	2:C:649:VAL:HG13	2.05	0.55
3:N:365:ASP:H	3:N:379:ALA:CB	2.18	0.55
3:I:1473:PRO:O	3:I:1478:SER:HA	2.06	0.55
3:N:215:TYR:OH	3:N:380:GLU:HB2	2.06	0.55
2:M:1067:TYR:O	2:M:1071:ILE:HG12	2.06	0.55
2:C:149:THR:O	2:C:159:ILE:HG13	2.07	0.55
1:K:224:TYR:CE1	1:L:9:PRO:HD2	2.41	0.55
1:F:156:HIS:H	1:F:156:HIS:CD2	2.24	0.55
2:M:54:ILE:HG22	2:M:66:LEU:O	2.07	0.55
2:M:946:ARG:HD3	2:M:984:GLU:HB2	1.89	0.55
2:C:144:PRO:HB3	2:C:163:ILE:O	2.07	0.55
3:D:1258:ARG:O	3:D:1262:LEU:HD13	2.06	0.55
1:K:66:SER:O	1:K:75:VAL:HG23	2.06	0.55
3:N:1207:TYR:CE2	3:N:1213:ARG:HA	2.42	0.55
2:M:292:ARG:HD2	2:M:299:LYS:HE2	1.89	0.55
2:H:196:LEU:O	2:H:196:LEU:HD22	2.05	0.55
2:H:758:ARG:HH21	2:H:788:THR:HG22	1.71	0.55
1:B:165:ILE:N	1:B:165:ILE:HD13	2.21	0.55
2:H:332:ARG:HG2	2:H:465:GLY:HA3	1.89	0.55
4:O:51:LEU:O	4:O:53:GLY:N	2.39	0.55
1:F:109:VAL:O	1:F:129:ILE:HG13	2.05	0.55
2:C:805:ARG:HG3	2:C:823:VAL:HG22	1.89	0.55
1:A:44:LEU:HD23	1:A:44:LEU:O	2.07	0.55
5:Z:26:LEU:HD13	5:Z:58:ASN:ND2	2.16	0.55
1:F:218:LEU:O	1:F:222:LEU:HD13	2.06	0.55
2:H:367:LEU:CB	2:H:371:LYS:HG2	2.34	0.55
3:N:1253:THR:HG23	3:N:1269:LYS:HB3	1.87	0.55
1:G:206:THR:CG2	1:G:209:GLU:HG3	2.37	0.55
1:A:12:THR:OG1	1:A:24:VAL:HB	2.06	0.55
3:D:15:PRO:HA	3:D:18:ILE:CG1	2.36	0.55
5:X:128:ALA:HB1	5:X:138:LEU:CD1	2.36	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:14:SER:HB2	3:N:17:LYS:HE3	1.89	0.55
2:H:902:ILE:N	2:H:902:ILE:HD12	2.21	0.55
3:N:1421:LEU:C	3:N:1421:LEU:HD12	2.27	0.55
3:N:361:VAL:HG12	3:N:383:GLY:H	1.72	0.55
1:L:9:PRO:HG3	1:L:27:PRO:O	2.07	0.55
3:I:761:ILE:HG22	3:I:762:GLN:HG2	1.89	0.55
4:E:83:ASP:C	4:E:85:LEU:H	2.10	0.55
2:M:759:THR:O	2:M:760:SER:HB2	2.06	0.55
3:I:992:ILE:O	3:I:995:LEU:HB3	2.07	0.55
3:D:841:TYR:HB2	3:D:864:VAL:CG1	2.36	0.55
3:D:87:ARG:CB	3:D:523:ASP:HB2	2.26	0.55
2:H:673:LEU:HD22	2:H:674:VAL:H	1.70	0.55
2:C:918:LEU:CD1	2:C:968:LEU:HA	2.26	0.55
1:B:173:PRO:HB3	1:B:202:ASP:OD1	2.07	0.55
3:N:205:TYR:CE1	3:N:208:PRO:HD3	2.41	0.55
3:N:996:TRP:O	3:N:999:THR:HG22	2.05	0.55
2:C:351:LEU:HD22	2:C:377:PRO:HB2	1.88	0.55
2:C:368:THR:CB	2:C:369:PRO:HD3	2.32	0.55
2:H:612:VAL:HG22	2:H:622:GLU:HB2	1.88	0.55
2:H:577:PRO:CA	2:H:671:ASN:HD21	2.20	0.55
2:C:339:LEU:HD13	2:C:391:LEU:HD11	1.89	0.55
1:A:215:VAL:HG11	1:B:225:PHE:HD1	1.72	0.55
1:A:102:LYS:HA	1:A:138:LEU:CD1	2.37	0.55
3:N:187:LYS:HA	3:N:199:LEU:O	2.06	0.55
3:N:464:LEU:HD13	3:N:465:LEU:N	2.21	0.55
1:G:7:LYS:O	1:G:9:PRO:HD3	2.07	0.55
3:D:890:VAL:HB	3:D:922:LEU:HD11	1.87	0.55
3:D:1485:GLN:HE21	4:E:79:LEU:N	2.05	0.55
2:C:840:ALA:HB2	2:C:846:LYS:HA	1.89	0.55
1:G:175:ARG:HB2	1:G:200:TRP:CB	2.37	0.55
3:N:819:GLY:O	3:N:824:ASN:HB2	2.07	0.55
3:N:1462:LEU:HD22	3:N:1472:ILE:CG2	2.36	0.55
1:K:109:VAL:HB	1:K:130:ALA:H	1.72	0.55
3:I:1106:VAL:HG12	3:I:1107:VAL:N	2.21	0.55
2:H:195:LEU:HG	2:H:238:LEU:HG	1.88	0.55
2:H:710:ILE:HB	2:H:790:LEU:HD22	1.87	0.55
2:C:673:LEU:HD23	2:C:674:VAL:N	2.22	0.55
2:C:205:GLU:HA	2:C:209:ARG:HH11	1.72	0.55
2:M:904:PRO:HD2	2:M:908:GLY:HA2	1.88	0.55
2:H:73:LEU:HD22	2:H:94:LEU:CB	2.33	0.55
2:M:840:ALA:HB2	2:M:846:LYS:CA	2.33	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:62:LEU:H	1:A:62:LEU:HD12	1.71	0.55
3:D:1394:VAL:HB	3:D:1397:LYS:CG	2.33	0.55
2:H:524:VAL:CG1	2:H:525:SER:N	2.70	0.55
3:N:465:LEU:CD1	3:N:512:MET:HB2	2.36	0.55
2:C:1055:LEU:HD11	2:C:1079:PRO:HD3	1.87	0.55
2:H:343:GLN:HE21	2:H:343:GLN:HA	1.72	0.55
3:I:433:GLY:HA3	3:I:447:VAL:O	2.07	0.55
4:O:37:ASN:N	4:O:37:ASN:ND2	2.54	0.55
3:I:1462:LEU:O	3:I:1466:VAL:HG23	2.07	0.55
1:B:62:LEU:HD22	1:B:63:HIS:N	2.22	0.55
3:I:1313:VAL:HG11	3:I:1325:LEU:CD1	2.37	0.55
2:C:950:LEU:HD11	3:D:1017:PHE:HB3	1.87	0.55
2:M:408:ARG:NE	2:M:455:LEU:HD11	2.22	0.55
3:D:1104:GLU:C	3:D:1105:ILE:HD12	2.28	0.55
1:A:79:ILE:HD12	1:A:83:LYS:NZ	2.22	0.55
2:H:724:ARG:HG2	2:H:737:LEU:HD22	1.88	0.55
3:N:783:ARG:NH2	5:Z:41:ASP:OD2	2.40	0.55
2:C:358:ARG:HH22	2:C:373:VAL:C	2.10	0.55
3:D:116:LEU:HB2	3:D:118:LEU:HG	1.88	0.55
3:I:624:ASP:HB3	3:I:625:TYR:CD1	2.41	0.55
3:I:650:LEU:CD1	3:I:691:LEU:HD22	2.37	0.55
1:F:101:LEU:HD21	1:F:113:ASP:HB3	1.89	0.55
2:C:595:LEU:HD13	2:C:595:LEU:N	2.21	0.55
3:I:1379:VAL:HA	3:I:1420:LEU:H	1.72	0.55
3:I:1213:ARG:NH2	4:J:10:PHE:HB3	2.22	0.55
4:J:36:LYS:C	4:J:37:ASN:HD22	2.11	0.55
5:Y:153:ALA:C	5:Y:154:ILE:HG13	2.27	0.55
1:K:184:THR:OG1	1:K:192:LEU:HB2	2.07	0.55
2:M:300:ASP:C	2:M:302:VAL:H	2.09	0.55
1:F:12:THR:HG22	1:G:229:GLN:NE2	2.21	0.55
2:C:468:ARG:HB3	2:C:485:TYR:HB3	1.89	0.55
1:B:95:GLN:H	1:B:95:GLN:HE21	1.54	0.55
2:M:400:PRO:HB3	2:M:593:ALA:HB2	1.89	0.55
3:D:971:LEU:HD22	3:D:996:TRP:HZ2	1.73	0.54
2:H:64:LEU:CD2	2:H:356:ARG:HA	2.36	0.54
2:C:165:LEU:HG	2:C:166:PRO:HA	1.88	0.54
2:C:463:GLU:HB2	2:C:464:LEU:HD23	1.88	0.54
2:M:1088:LEU:O	2:M:1092:LEU:HD12	2.07	0.54
2:C:473:ARG:HH11	2:C:473:ARG:HG2	1.71	0.54
5:X:107:PRO:HD3	5:X:121:ASP:CB	2.36	0.54
2:H:674:VAL:HG21	2:H:871:LEU:HD23	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:452:ILE:HG12	3:N:453:ASP:N	2.22	0.54
3:I:1495:ILE:CD1	4:J:88:GLU:HG3	2.31	0.54
1:A:124:ASN:OD1	1:A:127:LEU:HB2	2.07	0.54
3:I:624:ASP:HB3	3:I:625:TYR:HD1	1.72	0.54
1:A:20:TYR:HD2	1:A:21:GLY:H	1.54	0.54
2:M:858:MET:HE3	2:M:858:MET:HA	1.88	0.54
2:H:477:GLY:O	2:H:507:ARG:HD2	2.06	0.54
2:H:477:GLY:O	2:H:508:ILE:HG13	2.08	0.54
2:M:31:GLN:O	2:M:31:GLN:HG3	2.07	0.54
2:H:368:THR:OG1	2:H:369:PRO:HD3	2.07	0.54
3:N:907:GLU:HG2	3:N:1027:GLY:N	2.22	0.54
2:M:498:GLN:HE21	2:M:498:GLN:HA	1.71	0.54
2:M:15:LEU:HD23	2:M:586:ARG:NE	2.22	0.54
3:D:984:THR:HG23	3:D:986:ARG:N	2.22	0.54
3:N:209:ARG:HH11	3:N:209:ARG:CG	2.18	0.54
3:D:189:GLN:O	3:D:196:VAL:HG13	2.07	0.54
3:D:1128:VAL:O	3:D:1129:THR:HG22	2.06	0.54
3:D:1018:ASN:O	3:D:1022:VAL:HG23	2.06	0.54
2:H:874:LEU:HD13	3:I:783:ARG:CB	2.31	0.54
3:I:520:LEU:HD11	3:I:524:LEU:HD22	1.89	0.54
2:M:64:LEU:HD21	2:M:355:VAL:HG22	1.89	0.54
2:M:862:PRO:HG2	2:M:973:VAL:HB	1.88	0.54
3:N:1326:THR:HG22	3:N:1327:ARG:N	2.22	0.54
2:H:165:LEU:CB	2:H:265:ARG:HE	2.20	0.54
3:D:702:LEU:O	3:D:713:ILE:HG23	2.07	0.54
3:I:832:ARG:HB3	3:I:833:GLU:OE1	2.07	0.54
1:B:143:ARG:NH2	1:B:158:ILE:HG21	2.22	0.54
3:D:367:ILE:CD1	3:D:377:VAL:HG12	2.37	0.54
3:D:1201:CYS:SG	3:D:1202:GLN:N	2.79	0.54
3:D:1377:LYS:HZ3	3:D:1394:VAL:HG11	1.72	0.54
2:C:906:PHE:HE1	3:D:1067:VAL:HA	1.70	0.54
3:N:600:LEU:HD12	3:N:600:LEU:N	2.19	0.54
3:I:84:ILE:CG2	3:I:87:ARG:HH21	2.20	0.54
2:C:909:ALA:CB	2:C:914:ILE:HD11	2.34	0.54
5:Y:107:PRO:HD3	5:Y:121:ASP:HB2	1.89	0.54
2:M:625:LEU:HA	2:M:639:GLN:OE1	2.07	0.54
3:I:1289:LYS:CE	3:I:1306:PRO:HG3	2.36	0.54
1:F:10:VAL:HG12	1:F:12:THR:HG23	1.88	0.54
3:N:1045:MET:CE	3:N:1073:SER:HA	2.37	0.54
2:C:177:GLU:OE1	2:C:179:ASN:HB3	2.07	0.54
3:I:916:TYR:CZ	3:I:920:LEU:HD11	2.42	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:80:GLN:HA	2:M:90:TYR:CE2	2.41	0.54
3:D:1114:THR:HB	3:D:1195:GLN:HB3	1.89	0.54
3:I:703:ASN:ND2	3:I:713:ILE:HG23	2.19	0.54
3:D:1122:LEU:O	3:D:1134:LEU:HD12	2.07	0.54
2:H:164:PRO:CB	2:H:265:ARG:H	2.21	0.54
2:C:1039:ALA:HB1	3:D:710:ARG:HA	1.90	0.54
5:X:45:ASN:C	5:X:47:GLY:N	2.57	0.54
2:H:700:TYR:HD2	2:H:996:LYS:HG3	1.71	0.54
3:D:1166:LEU:HD23	3:D:1166:LEU:N	2.21	0.54
2:M:569:VAL:O	2:M:571:LEU:HD12	2.06	0.54
1:A:173:PRO:O	1:A:201:THR:HA	2.06	0.54
1:K:156:HIS:HD2	1:K:157:GLY:N	2.05	0.54
3:I:1211:MET:SD	3:I:1213:ARG:HG2	2.46	0.54
3:I:677:LEU:HA	3:I:680:GLN:HG3	1.89	0.54
5:X:11:GLY:HA3	5:X:109:GLU:OE1	2.07	0.54
2:H:107:LEU:HD13	2:H:108:ILE:N	2.22	0.54
2:C:304:LEU:HD21	2:C:308:ARG:HH21	1.73	0.54
5:Y:19:LEU:HD11	5:Y:62:ILE:HD11	1.89	0.54
3:D:984:THR:HG22	3:D:987:GLU:HG3	1.89	0.54
5:Y:94:PRO:HD3	5:Y:148:GLU:O	2.07	0.54
1:G:25:LEU:HB3	1:G:195:LEU:HD12	1.90	0.54
3:I:25:GLU:HG3	3:I:92:HIS:O	2.07	0.54
5:Z:38:GLU:C	5:Z:40:GLY:H	2.10	0.54
2:M:80:GLN:HA	2:M:90:TYR:HE2	1.72	0.54
2:M:395:LYS:HE2	2:M:403:SER:HB2	1.90	0.54
2:H:926:PHE:CD1	2:H:929:ARG:HG3	2.42	0.54
3:I:206:ARG:NE	3:I:206:ARG:HA	2.22	0.54
2:M:979:THR:HG23	2:M:981:GLU:H	1.71	0.54
2:M:546:LEU:HD12	2:M:565:GLN:OE1	2.06	0.54
3:D:782:SER:H	3:D:785:ILE:HD13	1.71	0.54
2:H:52:PHE:HB3	2:H:53:PRO:HD3	1.89	0.54
2:H:97:ARG:O	2:H:98:LEU:HD13	2.07	0.54
3:N:1472:ILE:H	3:N:1472:ILE:CD1	1.96	0.54
3:D:520:LEU:HD11	3:D:524:LEU:HD22	1.89	0.54
2:C:328:LEU:CD1	2:C:328:LEU:N	2.71	0.54
2:H:853:LEU:CD1	2:H:854:PRO:HD2	2.37	0.54
3:I:949:ILE:HG22	3:I:949:ILE:O	2.07	0.54
3:N:886:VAL:O	3:N:890:VAL:HG22	2.08	0.54
3:N:922:LEU:HG	3:N:923:GLY:H	1.72	0.54
3:N:1108:ARG:HH21	3:N:1198:TYR:HB3	1.72	0.54
3:I:809:PRO:O	3:I:812:ALA:CB	2.55	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:673:LEU:HD13	2:C:868:ASP:OD1	2.07	0.54
3:D:101:HIS:ND1	3:D:103:TRP:HB2	2.21	0.54
1:F:59:GLU:HG3	1:F:139:ASN:CB	2.36	0.54
2:M:148:PHE:CE1	2:M:309:TYR:HB3	2.42	0.54
2:H:487:THR:HG22	2:H:489:THR:H	1.73	0.54
3:D:1265:ALA:HB1	3:D:1333:HIS:CE1	2.41	0.54
2:H:598:GLU:HB2	2:H:615:TYR:OH	2.07	0.54
3:N:1424:VAL:HG13	3:N:1425:THR:N	2.22	0.54
3:D:646:LYS:HG3	3:D:647:ARG:N	2.23	0.54
3:I:587:ARG:HG2	3:I:587:ARG:HH11	1.71	0.54
3:D:1132:LEU:HD12	3:D:1132:LEU:N	2.22	0.54
3:N:850:LEU:H	3:N:850:LEU:HD12	1.72	0.54
2:C:1086:ARG:NH1	2:C:1086:ARG:HB3	2.23	0.54
3:I:1321:ALA:O	3:I:1339:LYS:HD3	2.07	0.54
3:D:1401:GLU:CD	3:D:1415:VAL:HG21	2.28	0.54
3:N:493:ARG:CZ	3:N:1390:LEU:HD23	2.37	0.54
3:D:800:LYS:HZ3	3:D:830:ALA:HB3	1.73	0.54
1:G:185:ARG:CD	1:G:187:GLY:H	2.20	0.54
4:J:58:PRO:HG2	4:J:63:TRP:HE1	1.73	0.54
2:M:141:HIS:HB3	2:M:418:LEU:CB	2.38	0.54
2:H:704:HIS:C	2:H:705:ILE:HD12	2.27	0.54
1:B:58:ILE:HG13	1:B:140:MET:CB	2.32	0.54
3:D:567:ILE:HG23	3:D:571:LYS:NZ	2.21	0.54
2:C:113:VAL:CG1	2:C:373:VAL:HG11	2.38	0.54
3:D:642:CYS:SG	3:D:716:PHE:CB	2.96	0.54
3:D:642:CYS:SG	3:D:716:PHE:HB2	2.48	0.54
1:A:73:GLU:HG2	1:A:77:GLU:OE1	2.08	0.54
3:I:871:LYS:HD2	3:I:871:LYS:H	1.72	0.54
1:F:58:ILE:HD12	1:F:140:MET:HB3	1.90	0.54
2:H:576:ALA:HB1	2:H:580:MET:CE	2.37	0.54
2:H:575:GLN:HB2	2:H:670:GLN:HA	1.89	0.54
1:B:51:THR:CB	1:B:87:VAL:HG22	2.37	0.54
3:N:1422:MET:CE	3:N:1426:LYS:HG2	2.34	0.54
5:Z:7:LEU:HD11	5:Z:108:ALA:HB3	1.89	0.54
2:H:452:ILE:N	2:H:452:ILE:HD12	2.23	0.54
3:I:433:GLY:CA	3:I:449:SER:H	2.20	0.54
2:C:580:MET:O	2:C:902:ILE:HA	2.08	0.54
3:N:358:GLY:CA	3:N:385:VAL:HB	2.38	0.54
2:C:1073:GLY:HA3	3:D:659:LYS:CE	2.37	0.54
2:H:897:LEU:HB3	2:H:899:GLN:NE2	2.21	0.54
5:Z:92:GLU:CD	5:Z:99:ARG:HH22	2.11	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:559:LEU:HD23	2:C:559:LEU:C	2.28	0.54
2:M:205:GLU:HA	2:M:209:ARG:CZ	2.38	0.54
3:I:681:ARG:H	3:I:681:ARG:CD	2.20	0.54
3:I:762:GLN:NE2	4:J:20:THR:OG1	2.40	0.54
5:Z:3:ARG:O	5:Z:4:GLU:HG3	2.07	0.54
2:H:658:GLY:H	2:H:661:SER:HB2	1.72	0.54
1:B:20:TYR:O	1:B:207:PRO:HG2	2.07	0.54
3:N:1442:ASN:O	3:N:1446:VAL:HG23	2.07	0.54
5:Y:41:ASP:OD2	5:Y:43:ARG:O	2.25	0.54
3:I:617:ASN:HB2	3:I:1467:ILE:HA	1.90	0.54
3:D:970:LYS:HG2	3:D:995:LEU:HD13	1.89	0.54
2:M:971:LYS:HG2	2:M:988:VAL:N	2.22	0.54
3:N:522:PRO:O	3:N:525:ARG:HD3	2.07	0.54
3:N:1147:ARG:HH12	3:N:1190:SER:HB2	1.73	0.54
1:G:40:LEU:O	1:G:44:LEU:HB2	2.07	0.54
1:G:185:ARG:HD2	1:G:187:GLY:H	1.72	0.54
1:B:165:ILE:HG12	1:B:165:ILE:O	2.07	0.54
1:B:211:LEU:O	1:B:214:ALA:HB3	2.08	0.54
3:D:1120:VAL:HG22	3:D:1186:VAL:O	2.08	0.54
2:H:282:GLY:C	2:H:283:ILE:HD13	2.28	0.54
2:C:98:LEU:H	2:C:98:LEU:HD13	1.73	0.54
2:H:578:VAL:HA	2:H:900:ARG:HG2	1.90	0.54
2:M:1013:TYR:CE2	2:M:1060:ILE:HD11	2.42	0.54
2:C:808:ARG:NH2	2:C:820:ARG:HE	2.01	0.54
2:C:1012:PRO:HD3	2:C:1026:GLN:CD	2.28	0.54
2:H:524:VAL:HG12	2:H:525:SER:N	2.21	0.54
1:L:85:LEU:HB2	1:L:127:LEU:CD2	2.38	0.54
3:N:690:ALA:O	3:N:694:VAL:HG23	2.07	0.54
2:C:610:ARG:HA	2:C:625:LEU:HG	1.90	0.54
2:M:15:LEU:N	2:M:15:LEU:HD13	2.23	0.54
3:N:1093:TYR:CZ	3:N:1097:LYS:HD2	2.43	0.54
3:N:563:PRO:HG2	3:N:566:ILE:HB	1.90	0.54
3:D:589:ALA:O	3:D:591:VAL:HG13	2.07	0.54
2:M:274:ARG:NH1	2:M:285:LEU:HB3	2.22	0.54
3:I:616:GLN:O	3:I:618:LEU:N	2.40	0.54
1:L:176:ARG:O	1:L:200:TRP:HE3	1.90	0.54
3:I:637:LEU:HD11	3:I:641:GLN:HB2	1.88	0.54
3:I:649:ALA:HA	3:I:652:LEU:HG	1.89	0.54
2:M:136:ILE:HG22	2:M:391:LEU:HD22	1.90	0.54
3:I:162:ARG:HD2	3:I:452:ILE:CD1	2.31	0.54
2:M:203:ASP:O	2:M:207:LEU:HB2	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:754:ILE:HG13	2:H:791:ARG:CG	2.37	0.54
1:A:38:ASN:O	1:A:42:ARG:HG3	2.07	0.54
3:N:728:LEU:HD11	3:N:732:VAL:HG21	1.89	0.54
3:N:966:GLU:O	3:N:970:LYS:HB2	2.08	0.54
2:C:374:ASN:H	2:C:374:ASN:HD22	1.53	0.54
3:D:700:VAL:HG12	3:D:749:VAL:HG12	1.89	0.54
2:M:1013:TYR:CZ	2:M:1060:ILE:HD11	2.43	0.54
3:D:357:GLU:HA	3:D:385:VAL:HG11	1.89	0.54
3:I:1485:GLN:CB	4:J:79:LEU:HB2	2.37	0.54
3:I:1378:TYR:CE2	3:I:1394:VAL:HG22	2.42	0.54
2:M:199:VAL:HG22	2:M:234:ALA:CB	2.38	0.54
3:I:911:LEU:O	3:I:914:LEU:N	2.40	0.54
3:I:1000:THR:O	3:I:1003:VAL:CG1	2.56	0.54
3:D:1488:ASP:HB3	4:E:26:ARG:HH22	1.70	0.54
2:C:177:GLU:OE2	2:C:179:ASN:HB3	2.08	0.54
2:M:269:LEU:HD12	2:M:288:ARG:HG3	1.89	0.54
3:N:589:ALA:O	3:N:591:VAL:HG13	2.08	0.54
2:M:854:PRO:HB2	2:M:856:GLU:OE2	2.07	0.54
1:G:60:ASP:OD2	1:G:137:ARG:NH1	2.41	0.54
2:M:64:LEU:HB2	2:M:359:MET:HG3	1.90	0.54
3:D:1003:VAL:O	3:D:1006:ALA:HB3	2.08	0.54
3:D:948:THR:O	3:D:949:ILE:HD12	2.08	0.54
2:H:31:GLN:HB3	2:H:71:TYR:OH	2.07	0.54
1:G:74:ASP:O	1:G:78:ILE:HD12	2.08	0.54
3:N:922:LEU:N	3:N:922:LEU:HD23	2.03	0.54
2:M:334:ARG:HH12	2:M:415:PRO:HG2	1.72	0.54
1:A:79:ILE:HD12	1:A:83:LYS:HZ1	1.72	0.54
1:B:199:ILE:CD1	1:B:211:LEU:HD11	2.38	0.54
3:D:119:SER:OG	3:D:123:LEU:HD22	2.08	0.54
1:F:66:SER:O	1:F:75:VAL:HG23	2.07	0.54
2:C:205:GLU:HG2	2:C:206:THR:N	2.22	0.54
1:A:215:VAL:O	1:A:218:LEU:HB3	2.08	0.54
1:B:100:LEU:N	1:B:100:LEU:CD2	2.69	0.54
3:N:18:ILE:HD13	3:N:516:ALA:O	2.08	0.54
3:D:162:ARG:CD	3:D:452:ILE:HG12	2.38	0.54
2:H:953:VAL:O	2:H:955:PRO:HD3	2.08	0.54
3:I:908:LYS:HB2	3:I:1027:GLY:CA	2.36	0.54
2:M:1016:ILE:HG12	2:M:1017:THR:H	1.73	0.54
2:C:1103:ASP:HB3	2:C:1107:ASN:OD1	2.08	0.54
3:I:1277:ILE:HG12	3:I:1299:PHE:CE1	2.42	0.54
3:I:1277:ILE:HD13	3:I:1301:LYS:HB2	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1197:ARG:HB3	3:D:1396:GLU:HG3	1.90	0.54
2:H:860:HIS:HA	2:H:866:PRO:HA	1.88	0.54
3:D:493:ARG:HG3	3:D:494:LYS:N	2.23	0.54
3:N:1403:LEU:O	3:N:1407:LEU:HB2	2.07	0.54
1:F:54:THR:CG2	1:F:158:ILE:HG13	2.18	0.54
1:G:165:ILE:H	1:G:165:ILE:HD13	1.71	0.54
2:H:328:LEU:HD22	2:H:433:THR:HG22	1.88	0.54
1:G:45:LEU:HD11	1:G:177:VAL:HG22	1.89	0.54
3:I:720:LEU:CD1	3:I:720:LEU:H	2.14	0.54
3:I:162:ARG:NH1	3:I:452:ILE:HG23	2.23	0.54
2:M:168:ARG:O	2:M:263:ASP:HA	2.08	0.54
2:H:199:VAL:HG23	2:H:234:ALA:CB	2.38	0.54
3:D:161:LEU:HD11	3:D:397:LYS:NZ	2.23	0.54
3:D:1381:VAL:HG22	3:D:1398:TRP:CH2	2.43	0.54
3:D:119:SER:OG	3:D:123:LEU:HD13	2.08	0.54
3:D:181:ASP:OD1	3:D:205:TYR:HD2	1.90	0.54
2:M:134:ARG:HB3	2:M:393:GLN:O	2.08	0.54
2:C:437:ARG:HH12	2:C:488:ALA:HA	1.72	0.54
3:D:1333:HIS:CE1	3:D:1421:LEU:HD11	2.42	0.54
2:C:902:ILE:HD12	2:C:902:ILE:N	2.22	0.54
5:Z:99:ARG:HG2	5:Z:99:ARG:NH1	2.21	0.54
3:I:811:GLU:HG2	3:I:815:ALA:CB	2.38	0.54
3:D:980:MET:HA	5:X:142:THR:HG23	1.90	0.54
2:H:243:ARG:HB2	2:H:244:PRO:HD3	1.89	0.54
3:I:795:VAL:HG11	3:I:863:VAL:HG13	1.89	0.54
2:M:52:PHE:O	2:M:54:ILE:N	2.41	0.54
3:D:800:LYS:NZ	3:D:804:LEU:CD1	2.71	0.54
1:F:35:THR:HG23	1:G:42:ARG:HB2	1.90	0.54
2:M:140:ILE:HD12	2:M:331:ARG:HE	1.73	0.54
2:H:165:LEU:CG	2:H:166:PRO:HA	2.30	0.54
2:C:1008:ARG:HG2	2:C:1008:ARG:NH1	2.23	0.54
3:D:133:ILE:HG12	3:D:456:MET:HB3	1.90	0.54
3:N:701:LEU:O	3:N:747:VAL:HA	2.08	0.54
2:M:432:ARG:NH1	3:N:1048:PRO:HD2	2.23	0.54
2:M:1059:ASP:OD2	2:M:1083:GLU:HG2	2.08	0.54
3:N:52:PRO:HD2	3:N:86:ARG:NE	2.23	0.54
2:H:498:GLN:OE1	3:I:1067:VAL:HB	2.08	0.54
2:M:199:VAL:CG1	2:M:235:LEU:HG	2.38	0.54
2:H:953:VAL:CG2	2:H:966:LEU:HD22	2.38	0.54
2:H:409:ARG:HA	2:H:454:SER:HA	1.90	0.54
2:H:806:LEU:CD1	2:H:813:VAL:HG21	2.38	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:E:80:VAL:HG13	4:E:81:PRO:HD2	1.89	0.54
1:A:10:VAL:HG12	1:A:12:THR:HG23	1.88	0.54
2:C:1013:TYR:OH	2:C:1063:ARG:HG3	2.08	0.54
5:Y:41:ASP:OD2	5:Y:48:TYR:CG	2.62	0.53
2:M:755:LEU:HB2	2:M:790:LEU:HD21	1.90	0.53
3:I:730:PRO:HA	3:I:733:CYS:SG	2.48	0.53
4:J:41:GLU:CD	4:J:42:PRO:HD3	2.28	0.53
3:N:1108:ARG:HG3	3:N:1108:ARG:NH1	2.23	0.53
3:N:712:GLY:C	3:N:713:ILE:HG13	2.28	0.53
3:D:1209:LEU:C	3:D:1211:MET:N	2.62	0.53
1:B:19:GLU:O	1:B:200:TRP:HA	2.08	0.53
2:H:284:ARG:HG3	2:H:285:LEU:N	2.23	0.53
2:C:54:ILE:HG13	2:C:356:ARG:HH21	1.72	0.53
3:N:99:ALA:HB3	3:N:514:LEU:HG	1.91	0.53
1:A:45:LEU:HG	1:A:174:VAL:HB	1.91	0.53
1:K:184:THR:HG22	1:K:185:ARG:N	2.23	0.53
2:H:107:LEU:CD1	2:H:109:LYS:H	2.21	0.53
2:H:760:SER:OG	2:H:786:LYS:HB3	2.08	0.53
2:H:744:ARG:HG2	2:H:747:ALA:HB2	1.88	0.53
1:A:9:PRO:HD2	1:B:224:TYR:CE1	2.43	0.53
3:N:715:ALA:HB3	3:N:764:LEU:HA	1.90	0.53
4:E:23:VAL:HG12	4:E:61:VAL:HG12	1.89	0.53
1:K:68:ILE:HD13	1:K:68:ILE:N	2.23	0.53
3:I:348:GLN:HB3	3:I:349:PRO:HD2	1.89	0.53
3:N:1098:LEU:HD23	3:N:1226:ALA:HA	1.90	0.53
1:K:32:PHE:CE2	1:L:43:ILE:HD12	2.43	0.53
2:M:369:PRO:O	2:M:373:VAL:HG23	2.08	0.53
3:D:1019:PRO:O	3:D:1020:LEU:C	2.44	0.53
3:N:111:LYS:HG3	3:N:1452:ILE:HD11	1.91	0.53
1:F:44:LEU:O	1:F:174:VAL:HG21	2.09	0.53
1:K:85:LEU:HD13	1:K:127:LEU:HD22	1.89	0.53
4:J:41:GLU:CD	4:J:41:GLU:H	2.11	0.53
2:H:300:ASP:C	2:H:302:VAL:H	2.12	0.53
2:H:265:ARG:HG2	2:H:267:TYR:CG	2.43	0.53
1:K:199:ILE:HD11	1:K:207:PRO:HB3	1.91	0.53
5:X:37:LEU:HD21	5:X:48:TYR:CE2	2.39	0.53
3:D:102:ILE:CD1	3:D:586:ARG:NH1	2.69	0.53
2:H:672:VAL:HG22	2:H:994:ILE:CD1	2.38	0.53
2:M:468:ARG:HD3	2:M:485:TYR:O	2.07	0.53
2:H:94:LEU:O	2:H:114:PHE:HB2	2.07	0.53
2:M:564:MET:SD	2:M:846:LYS:HE2	2.48	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:136:ILE:HG22	2:C:136:ILE:O	2.09	0.53
1:A:101:LEU:HD12	1:A:102:LYS:H	1.73	0.53
1:A:140:MET:N	1:A:140:MET:SD	2.81	0.53
3:D:453:ASP:O	3:D:454:ALA:HB2	2.09	0.53
2:C:724:ARG:HB3	2:C:734:LEU:HD11	1.89	0.53
3:N:907:GLU:O	3:N:910:SER:N	2.42	0.53
1:B:218:LEU:O	1:B:222:LEU:HG	2.08	0.53
3:N:527:MET:HA	3:N:537:THR:OG1	2.09	0.53
3:N:1353:GLN:HB3	3:N:1357:ARG:NE	2.23	0.53
3:N:1359:GLN:HE22	5:Z:52:ARG:HH21	1.56	0.53
2:M:887:GLU:OE1	2:M:992:MET:HA	2.07	0.53
4:J:85:LEU:HD23	4:J:86:GLN:N	2.22	0.53
2:M:854:PRO:HB2	2:M:856:GLU:CD	2.29	0.53
2:C:911:GLU:HB3	2:C:912:PRO:HD3	1.90	0.53
1:B:70:GLY:HA2	1:B:133:GLU:HG2	1.91	0.53
3:D:433:GLY:HA3	3:D:449:SER:H	1.74	0.53
2:H:18:LEU:HD13	2:H:590:ASP:OD1	2.09	0.53
3:D:977:ALA:CB	3:D:983:LEU:HD21	2.38	0.53
3:D:1065:LEU:HD23	3:D:1066:THR:O	2.07	0.53
3:I:792:ILE:HD12	3:I:941:PHE:CE1	2.44	0.53
3:I:780:LYS:HZ3	5:Y:38:GLU:CD	2.11	0.53
2:C:473:ARG:HG2	2:C:473:ARG:NH1	2.23	0.53
2:C:1111:ILE:HB	2:C:1112:PHE:CD1	2.42	0.53
1:K:78:ILE:HG12	1:K:130:ALA:HB2	1.91	0.53
4:J:47:LYS:HE3	4:J:55:PHE:HE2	1.73	0.53
3:N:135:LEU:HD12	3:N:136:ASP:N	2.22	0.53
3:D:119:SER:HB2	3:D:123:LEU:CB	2.39	0.53
2:H:221:LEU:C	2:H:223:ASP:H	2.11	0.53
2:M:1006:HIS:CE1	2:M:1027:PHE:HB3	2.43	0.53
2:M:1008:ARG:O	3:N:625:TYR:HA	2.08	0.53
1:F:58:ILE:CG1	1:F:140:MET:HB3	2.37	0.53
2:C:758:ARG:HB2	2:C:788:THR:C	2.28	0.53
2:C:939:ARG:HG3	2:C:975:TYR:HE2	1.73	0.53
3:N:654:LYS:O	3:N:658:LEU:HG	2.07	0.53
2:C:498:GLN:NE2	3:D:1067:VAL:HG21	2.24	0.53
2:M:673:LEU:O	2:M:868:ASP:HB2	2.08	0.53
2:H:480:THR:HG22	2:H:482:GLU:H	1.72	0.53
2:M:1076:VAL:HG21	3:N:752:SER:CA	2.36	0.53
3:D:982:PHE:HA	5:X:125:MET:SD	2.48	0.53
3:N:908:LYS:HB3	3:N:1027:GLY:HA3	1.90	0.53
2:M:194:VAL:HG11	2:M:224:GLU:HB2	1.89	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Z:129:LEU:CD2	5:Z:138:LEU:HD11	2.38	0.53
3:D:1492:LEU:HD12	3:D:1493:LYS:HZ2	1.73	0.53
2:C:107:LEU:HD23	2:C:109:LYS:H	1.74	0.53
3:I:565:ILE:O	3:I:569:ASN:HB2	2.08	0.53
2:M:929:ARG:HH11	2:M:929:ARG:HG3	1.74	0.53
2:C:71:TYR:H	2:C:71:TYR:HD2	1.57	0.53
2:M:522:VAL:HG12	2:M:523:ILE:N	2.23	0.53
3:I:789:LEU:O	3:I:792:ILE:HG23	2.07	0.53
3:D:957:PRO:CG	3:D:1007:VAL:HG13	2.37	0.53
2:M:946:ARG:CD	2:M:984:GLU:HB2	2.39	0.53
3:D:838:ARG:HA	3:D:864:VAL:HA	1.90	0.53
3:I:111:LYS:CG	3:I:1452:ILE:HD11	2.38	0.53
3:N:1202:GLN:HE21	3:N:1214:PRO:HB3	1.74	0.53
3:N:984:THR:HG22	3:N:987:GLU:OE1	2.08	0.53
3:D:95:LEU:HD21	3:D:574:LEU:HD11	1.90	0.53
2:H:148:PHE:CZ	2:H:309:TYR:HB3	2.42	0.53
3:I:435:VAL:HG22	3:I:446:VAL:CG1	2.30	0.53
3:N:641:GLN:HB3	3:N:717:GLN:O	2.08	0.53
2:H:666:LEU:HD11	2:H:668:LEU:HG	1.90	0.53
3:D:1149:LEU:CD2	3:D:1166:LEU:HD22	2.39	0.53
3:I:126:VAL:O	3:I:132:TYR:HB2	2.09	0.53
2:H:1032:PHE:O	2:H:1036:GLU:CD	2.46	0.53
5:Y:107:PRO:HD3	5:Y:121:ASP:HB3	1.90	0.53
2:C:448:ASN:HA	2:C:451:LEU:CD1	2.36	0.53
3:N:646:LYS:HD3	3:N:647:ARG:HH12	1.73	0.53
2:H:627:ARG:C	2:H:628:PHE:HD2	2.12	0.53
2:C:149:THR:HG23	2:C:159:ILE:HD11	1.90	0.53
3:I:461:ILE:HA	3:I:464:LEU:HD12	1.90	0.53
2:H:523:ILE:HD13	2:H:523:ILE:C	2.29	0.53
2:C:269:LEU:HG	2:C:287:GLY:O	2.07	0.53
3:N:1461:GLY:H	3:N:1473:PRO:HG2	1.72	0.53
3:I:644:LEU:O	3:I:721:VAL:HG23	2.09	0.53
3:D:1271:LYS:NZ	3:D:1271:LYS:HB3	2.22	0.53
2:H:257:VAL:O	2:H:263:ASP:HB2	2.09	0.53
3:D:165:LYS:HE2	3:D:167:GLU:HB2	1.91	0.53
2:H:1052:MET:HG3	3:I:623:VAL:CG1	2.30	0.53
2:H:833:LEU:HA	2:H:837:ASP:OD2	2.09	0.53
2:C:713:ARG:NE	2:C:758:ARG:NH2	2.57	0.53
2:H:134:ARG:NH2	2:H:393:GLN:HA	2.23	0.53
2:H:90:TYR:CD1	2:H:120:LEU:HD23	2.39	0.53
3:D:982:PHE:CD1	5:X:117:MET:CE	2.92	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:789:LEU:HD12	3:N:911:LEU:HD21	1.89	0.53
2:M:501:THR:CG2	2:M:513:VAL:HG12	2.39	0.53
1:L:64:GLU:HA	1:L:75:VAL:HG11	1.89	0.53
3:D:15:PRO:HA	3:D:18:ILE:HG12	1.91	0.53
3:I:639:LEU:HD12	3:I:932:ASP:OD2	2.09	0.53
1:F:18:ARG:O	1:F:207:PRO:HD3	2.08	0.53
3:I:548:ILE:N	3:I:548:ILE:HD12	2.24	0.53
3:N:355:VAL:HG13	3:N:356:PRO:HD2	1.91	0.53
5:Z:83:ILE:HG13	5:Z:132:HIS:O	2.09	0.53
2:H:4:LYS:HD3	2:H:6:PHE:CZ	2.44	0.53
5:X:144:LYS:HD3	5:X:147:ARG:HH11	1.73	0.53
3:N:216:VAL:HG12	3:N:216:VAL:O	2.07	0.53
1:K:186:LEU:HD23	1:K:187:GLY:N	2.24	0.53
2:M:146:VAL:HG21	2:M:306:THR:HG22	1.91	0.53
3:D:631:ILE:HG13	3:D:743:ASP:O	2.08	0.53
3:N:23:TYR:O	3:N:49:ILE:HA	2.09	0.53
1:F:69:PRO:O	1:F:71:VAL:HG23	2.08	0.53
3:I:168:THR:HG22	3:I:170:PRO:HD3	1.91	0.53
3:I:574:LEU:HD13	3:I:575:GLN:N	2.24	0.53
3:D:1020:LEU:HA	3:D:1023:MET:HE2	1.88	0.53
3:N:851:LEU:HD23	3:N:851:LEU:H	1.74	0.53
3:N:1148:VAL:O	3:N:1188:VAL:HG23	2.08	0.53
2:H:1041:GLU:HB2	3:I:1223:ILE:HD13	1.90	0.53
3:D:1257:PRO:CA	3:D:1260:ILE:HD13	2.30	0.53
3:I:191:LEU:HD22	3:I:393:ILE:HD13	1.90	0.53
3:N:101:HIS:O	3:N:103:TRP:N	2.42	0.53
1:A:122:ILE:N	1:A:122:ILE:HD12	2.24	0.53
3:I:112:ILE:HD13	3:I:512:MET:HE3	1.90	0.53
1:K:101:LEU:HD23	1:K:102:LYS:H	1.74	0.53
3:D:180:LYS:HB2	3:D:183:GLU:HB2	1.90	0.53
2:C:521:PRO:HG3	3:D:1068:LEU:CD2	2.39	0.53
3:D:414:ARG:HB3	3:D:450:TYR:CE1	2.44	0.53
1:K:63:HIS:CD2	2:M:801:VAL:HG12	2.44	0.53
2:H:508:ILE:HG22	2:H:509:ALA:N	2.23	0.53
2:M:425:PHE:HA	2:M:428:ARG:HD2	1.90	0.53
2:M:548:PRO:HB2	2:M:843:HIS:CE1	2.44	0.53
3:D:1189:ARG:HG3	3:D:1189:ARG:HH11	1.72	0.53
5:Z:135:GLY:O	5:Z:150:ARG:HG3	2.08	0.53
5:Y:125:MET:HA	5:Y:140:LEU:HD11	1.91	0.53
3:I:1307:LYS:H	3:I:1307:LYS:HD3	1.74	0.53
3:I:138:LYS:HE2	3:I:138:LYS:H	1.74	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:357:GLU:OE2	3:I:387:LEU:HG	2.08	0.53
3:D:1014:ASN:C	3:D:1016:PRO:HD3	2.29	0.53
3:D:675:ARG:HA	3:D:678:GLU:HB3	1.90	0.53
3:D:505:SER:OG	3:D:1453:ALA:HA	2.09	0.53
3:I:1122:LEU:HD13	3:I:1178:ALA:HB2	1.90	0.53
2:M:939:ARG:HB3	2:M:982:PRO:HG3	1.90	0.53
3:I:1098:LEU:HD21	3:I:1229:ILE:HB	1.89	0.53
2:M:140:ILE:HG22	2:M:333:ILE:CD1	2.36	0.53
3:D:1335:LEU:HD23	3:D:1344:VAL:HA	1.90	0.53
3:I:431:VAL:HG12	3:I:432:TYR:N	2.24	0.53
1:A:52:ALA:HB1	1:A:170:VAL:HG22	1.90	0.53
2:H:726:ILE:CD1	2:H:734:LEU:HD21	2.27	0.53
2:H:274:ARG:O	2:H:277:ALA:HB3	2.08	0.53
3:N:991:GLN:O	3:N:995:LEU:HD13	2.08	0.53
3:D:708:LEU:HD22	3:D:1231:GLU:N	2.24	0.53
3:D:101:HIS:CG	3:D:582:LEU:HD11	2.44	0.53
3:D:1192:LEU:N	3:D:1192:LEU:HD22	2.24	0.53
3:N:87:ARG:CB	3:N:523:ASP:HB2	2.32	0.53
3:N:51:GLY:HA3	3:N:86:ARG:CG	2.39	0.53
2:C:575:GLN:C	2:C:667:ALA:HB1	2.29	0.53
3:I:436:GLU:OE1	3:I:445:ARG:HD3	2.08	0.53
2:H:134:ARG:HH21	2:H:393:GLN:HA	1.72	0.53
2:H:806:LEU:HD11	2:H:813:VAL:HG21	1.91	0.53
2:H:599:GLU:HB3	2:H:615:TYR:HD2	1.72	0.53
1:L:91:ASN:H	1:L:91:ASN:ND2	2.05	0.53
3:D:1171:VAL:HG12	3:D:1175:ILE:HD11	1.90	0.53
2:C:754:ILE:N	2:C:754:ILE:HD12	2.24	0.53
4:O:25:LYS:O	4:O:29:GLN:HG3	2.08	0.53
3:N:1292:VAL:HG23	3:N:1305:LEU:HD22	1.91	0.53
2:C:620:LEU:O	2:C:620:LEU:HD12	2.07	0.53
2:C:729:LEU:HG	2:C:729:LEU:O	2.09	0.53
2:C:39:ARG:HB2	2:C:39:ARG:HH11	1.73	0.53
2:H:1017:THR:O	2:H:1018:GLN:HG2	2.08	0.53
3:D:992:ILE:O	3:D:995:LEU:HB3	2.09	0.53
3:I:777:PRO:C	3:I:778:LEU:HD23	2.30	0.53
2:M:1085:PHE:O	2:M:1089:VAL:HG23	2.09	0.53
5:X:75:LEU:HD13	5:X:85:LEU:HB3	1.89	0.53
3:I:1098:LEU:HG	3:I:1226:ALA:HA	1.91	0.53
3:D:1268:PRO:HG2	3:D:1330:ILE:O	2.09	0.53
2:H:250:ARG:HH22	2:H:252:LYS:HB2	1.73	0.53
2:H:802:ARG:O	2:H:803:THR:CG2	2.57	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:35:THR:HG21	1:B:43:ILE:CD1	2.35	0.53
2:C:1008:ARG:NH1	3:D:624:ASP:HB3	2.24	0.53
3:I:800:LYS:HG2	3:I:802:ALA:N	2.24	0.53
3:D:179:VAL:CG1	3:D:183:GLU:HB3	2.39	0.53
1:A:173:PRO:HB3	1:A:202:ASP:OD2	2.08	0.53
1:A:100:LEU:HA	1:A:140:MET:HE1	1.91	0.53
3:N:1041:LEU:HD12	3:N:1042:ARG:O	2.09	0.53
2:M:91:GLN:HB3	2:M:117:HIS:HB2	1.91	0.53
2:H:806:LEU:HD13	2:H:813:VAL:HG11	1.90	0.53
2:C:879:ARG:HH11	2:C:879:ARG:HG3	1.73	0.53
3:I:1472:ILE:N	3:I:1472:ILE:CD1	2.72	0.53
5:X:115:THR:HB	5:X:116:PRO:HD3	1.89	0.53
2:C:19:THR:O	2:C:23:VAL:HG23	2.08	0.53
3:D:631:ILE:O	3:D:631:ILE:HD12	2.09	0.53
2:M:704:HIS:ND1	2:M:831:ARG:HG3	2.23	0.53
4:E:67:GLU:OE2	4:E:73:LEU:HD21	2.09	0.53
2:M:471:TYR:O	2:M:483:VAL:HG13	2.09	0.53
3:I:567:ILE:HG22	3:I:571:LYS:HE3	1.89	0.53
2:M:100:LEU:HB2	2:M:368:THR:HG23	1.90	0.53
1:L:19:GLU:O	1:L:200:TRP:HA	2.08	0.53
3:N:845:ASN:O	3:N:845:ASN:ND2	2.42	0.53
3:D:1252:ILE:HG23	3:D:1253:THR:N	2.23	0.53
1:F:39:PRO:HG3	1:G:39:PRO:CG	2.29	0.53
2:H:889:HIS:O	2:H:892:LEU:HB3	2.08	0.53
2:M:139:GLN:NE2	2:M:414:GLY:HA3	2.24	0.53
2:M:140:ILE:HD11	2:M:427:VAL:HG11	1.90	0.53
3:D:1330:ILE:CG2	3:D:1331:ASP:N	2.72	0.53
3:I:166:GLN:HE22	3:I:394:LEU:HB2	1.74	0.53
2:H:250:ARG:HH22	2:H:252:LYS:HG3	1.74	0.53
2:H:755:LEU:HD11	2:H:790:LEU:HG	1.91	0.53
3:N:135:LEU:HD21	3:N:147:VAL:CG2	2.39	0.53
1:B:55:SER:HA	1:B:167:VAL:HG23	1.90	0.53
2:H:165:LEU:HD21	2:H:418:LEU:CD1	2.38	0.53
1:K:48:ILE:CG2	1:K:173:PRO:HD2	2.34	0.53
3:N:924:MET:HB3	4:O:7:ASP:OD1	2.08	0.53
2:H:577:PRO:CD	2:H:580:MET:HE3	2.33	0.53
2:M:551:GLU:HG2	2:M:906:PHE:HA	1.90	0.53
2:C:516:ARG:NE	3:D:1068:LEU:HD22	2.24	0.53
2:C:905:ILE:HG22	2:C:906:PHE:CD2	2.44	0.53
2:M:791:ARG:HH11	2:M:791:ARG:HB3	1.72	0.53
2:M:858:MET:HE2	2:M:859:PRO:CD	2.39	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:472:ARG:HH12	2:H:481:ASP:HA	1.73	0.53
3:D:141:ILE:CD1	3:D:432:TYR:HB2	2.36	0.53
3:N:1344:VAL:HG12	3:N:1348:LEU:HD21	1.91	0.53
1:F:124:ASN:ND2	1:F:127:LEU:HB2	2.20	0.53
2:M:34:VAL:CG2	2:M:38:LYS:HB2	2.39	0.53
2:H:398:THR:HA	2:H:633:GLN:HG3	1.90	0.53
3:D:1155:VAL:O	3:D:1157:GLY:N	2.41	0.53
2:M:197:LEU:HA	2:M:200:LEU:HD12	1.91	0.53
1:F:123:MET:O	1:F:125:PRO:HD3	2.08	0.53
3:N:1399:ASP:HA	3:N:1402:ALA:HB3	1.89	0.53
1:F:31:GLY:HA2	1:F:193:ASP:OD2	2.09	0.53
2:M:40:GLU:O	2:M:41:ASN:HB2	2.08	0.53
1:F:153:ALA:HA	1:F:167:VAL:O	2.08	0.53
1:L:39:PRO:O	1:L:43:ILE:HG12	2.08	0.53
3:D:907:GLU:O	3:D:908:LYS:C	2.47	0.53
2:H:52:PHE:O	2:H:54:ILE:N	2.42	0.53
1:K:179:PHE:HB3	1:K:197:LEU:HD11	1.91	0.53
2:C:286:SER:HB3	2:C:299:LYS:HZ1	1.73	0.53
2:M:1080:SER:O	2:M:1081:VAL:HG23	2.09	0.53
1:G:184:THR:HG23	1:G:192:LEU:HB2	1.90	0.53
2:C:915:LYS:HD3	2:C:918:LEU:HD23	1.91	0.53
2:H:165:LEU:HA	2:H:166:PRO:O	2.09	0.53
3:N:514:LEU:HD21	3:N:578:VAL:HG11	1.91	0.53
3:N:780:LYS:HD2	3:N:912:LYS:HE2	1.90	0.53
1:K:101:LEU:HB2	1:K:114:PHE:CD2	2.44	0.53
2:M:557:ARG:NH1	2:M:557:ARG:HG3	2.22	0.53
1:G:90:LEU:HD13	1:G:119:ASP:OD1	2.09	0.53
2:H:537:LYS:O	2:H:539:VAL:N	2.42	0.53
2:M:798:GLY:HA3	2:M:828:ALA:O	2.09	0.53
1:L:88:ARG:HB2	1:L:123:MET:CE	2.39	0.53
5:X:104:VAL:HG13	5:X:119:ILE:O	2.08	0.53
4:J:30:LEU:O	4:J:35:PHE:HA	2.09	0.53
2:C:724:ARG:HG2	2:C:734:LEU:HD11	1.90	0.53
1:K:167:VAL:HG12	1:K:168:ASP:N	2.20	0.53
5:Y:62:ILE:CG2	5:Y:63:ASP:N	2.71	0.53
2:M:313:LEU:HD22	2:M:321:GLU:O	2.09	0.53
2:H:744:ARG:HG3	2:H:747:ALA:HB2	1.91	0.53
5:X:99:ARG:NE	5:X:152:VAL:HG11	2.24	0.53
3:I:681:ARG:N	3:I:681:ARG:HD2	2.24	0.53
5:Z:83:ILE:N	5:Z:132:HIS:O	2.31	0.53
3:I:211:VAL:HG22	3:I:387:LEU:HD23	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:691:SER:HA	2:C:853:LEU:O	2.09	0.53
3:I:792:ILE:HD11	3:I:881:LEU:HD23	1.90	0.52
3:I:1045:MET:O	3:I:1053:PHE:HB2	2.08	0.52
3:I:1065:LEU:HD11	3:I:1069:GLU:HB3	1.90	0.52
2:C:679:PHE:C	2:C:681:GLY:H	2.13	0.52
3:N:108:VAL:CB	3:N:109:PRO:HD3	2.21	0.52
2:C:264:PRO:HB3	2:C:289:THR:HB	1.91	0.52
2:M:1031:ARG:HG2	2:M:1032:PHE:N	2.24	0.52
3:N:1188:VAL:HG22	3:N:1189:ARG:N	2.24	0.52
1:F:177:VAL:HG12	1:F:178:ALA:N	2.24	0.52
1:F:42:ARG:HH12	1:G:34:VAL:HB	1.73	0.52
2:H:791:ARG:O	2:H:793:PRO:HD3	2.09	0.52
1:B:58:ILE:HD12	1:B:58:ILE:N	2.24	0.52
3:D:695:ILE:HD11	3:D:717:GLN:OE1	2.08	0.52
3:N:639:LEU:C	3:N:639:LEU:HD22	2.29	0.52
2:C:859:PRO:O	2:C:867:VAL:HG22	2.08	0.52
3:D:101:HIS:CD2	3:D:582:LEU:HD11	2.44	0.52
1:F:56:VAL:HG22	1:F:142:VAL:HA	1.92	0.52
2:H:581:THR:OG1	2:H:583:LEU:HD23	2.09	0.52
1:B:117:VAL:HB	1:B:120:VAL:CG2	2.38	0.52
2:M:473:ARG:HA	2:M:531:PHE:CD1	2.44	0.52
3:D:672:ALA:O	3:D:676:MET:HG2	2.09	0.52
2:H:119:PRO:HG2	2:H:386:PHE:CG	2.44	0.52
2:M:44:ILE:HG21	2:M:71:TYR:CE1	2.44	0.52
2:M:498:GLN:HB3	2:M:500:ASN:OD1	2.08	0.52
1:G:160:ASP:HB3	1:G:161:ARG:NH1	2.23	0.52
3:N:1264:GLU:CD	3:N:1423:GLY:HA3	2.29	0.52
1:L:91:ASN:OD1	1:L:93:SER:HB3	2.09	0.52
1:B:110:LYS:HD3	1:B:126:ASP:HA	1.90	0.52
2:H:861:LEU:HD23	2:H:862:PRO:CD	2.38	0.52
3:D:408:GLU:HG3	3:D:409:VAL:N	2.24	0.52
2:C:527:GLU:N	2:C:527:GLU:CD	2.62	0.52
1:K:143:ARG:HH11	1:K:143:ARG:HG3	1.75	0.52
2:C:1024:LYS:CG	2:C:1025:ALA:H	2.22	0.52
3:I:212:ARG:HB3	3:I:386:HIS:HB2	1.90	0.52
2:M:1097:LEU:H	2:M:1097:LEU:HD22	1.73	0.52
2:H:549:PHE:CD2	2:H:886:LEU:HB3	2.44	0.52
2:C:300:ASP:C	2:C:302:VAL:H	2.12	0.52
3:N:10:ILE:HD13	3:N:1434:TRP:CZ2	2.44	0.52
3:D:811:GLU:O	3:D:815:ALA:N	2.42	0.52
3:D:540:LEU:HD22	3:D:540:LEU:N	2.24	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:1099:VAL:HG22	3:I:1226:ALA:CB	2.39	0.52
3:I:695:ILE:O	3:I:697:GLY:N	2.43	0.52
3:I:644:LEU:N	3:I:721:VAL:HG21	2.23	0.52
2:M:683:ASN:HA	2:M:687:ALA:CB	2.39	0.52
3:D:709:HIS:HE1	3:D:735:ALA:O	1.93	0.52
3:N:148:GLU:HG2	3:N:151:GLN:CB	2.39	0.52
2:C:383:ARG:HG2	2:C:388:ARG:HH12	1.74	0.52
1:A:114:PHE:HE2	1:A:142:VAL:HG21	1.74	0.52
2:C:833:LEU:HA	2:C:837:ASP:OD2	2.08	0.52
3:D:792:ILE:HD12	3:D:941:PHE:CE2	2.44	0.52
2:H:398:THR:N	2:H:633:GLN:HG3	2.24	0.52
3:I:907:GLU:HG2	3:I:1027:GLY:N	2.24	0.52
3:N:1379:VAL:HG23	3:N:1380:GLU:N	2.25	0.52
3:I:398:ALA:HB2	3:I:447:VAL:HA	1.89	0.52
2:H:1086:ARG:HG3	2:H:1111:ILE:HD12	1.91	0.52
3:I:1412:LYS:O	3:I:1414:PRO:HD3	2.10	0.52
1:G:179:PHE:CD2	1:G:179:PHE:N	2.76	0.52
3:N:954:ALA:HB3	3:N:1062:ARG:HG3	1.91	0.52
3:N:2:LYS:NZ	3:N:2:LYS:HB2	2.23	0.52
2:H:603:VAL:HA	2:H:613:VAL:HG12	1.92	0.52
3:I:1235:GLN:NE2	5:Y:37:LEU:HD22	2.25	0.52
3:I:783:ARG:CG	3:I:784:ASP:H	2.15	0.52
3:N:482:LYS:NZ	3:N:1389:LEU:HD21	2.25	0.52
1:K:85:LEU:HD11	1:K:122:ILE:HD13	1.91	0.52
2:M:175:GLU:HG2	2:M:176:VAL:N	2.24	0.52
2:H:219:GLN:HA	2:H:222:MET:HG2	1.91	0.52
2:C:1005:MET:O	2:C:1005:MET:HG3	2.09	0.52
3:D:654:LYS:O	3:D:658:LEU:HG	2.08	0.52
3:D:1442:ASN:HD21	3:D:1444:THR:HB	1.74	0.52
2:C:154:ARG:NH2	2:C:178:PRO:HG3	2.24	0.52
1:A:41:ARG:HH11	1:A:41:ARG:HG3	1.74	0.52
3:I:1485:GLN:CG	4:J:79:LEU:H	2.16	0.52
3:I:1202:GLN:HE21	3:I:1214:PRO:HB3	1.74	0.52
4:J:37:ASN:N	4:J:37:ASN:ND2	2.56	0.52
2:M:31:GLN:HG2	2:M:45:GLN:NE2	2.24	0.52
2:C:605:LYS:HB2	2:C:612:VAL:HB	1.91	0.52
2:H:1046:ALA:C	3:I:1471:LEU:HD11	2.29	0.52
3:I:1363:LEU:H	3:I:1363:LEU:HD23	1.73	0.52
3:N:675:ARG:HH11	3:N:675:ARG:HG2	1.73	0.52
2:C:1087:VAL:O	2:C:1091:GLU:HB2	2.10	0.52
2:C:124:ASP:HA	2:C:592:LEU:HD12	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:471:TYR:H	2:M:483:VAL:HG13	1.74	0.52
2:C:266:ARG:HD3	2:C:266:ARG:O	2.09	0.52
3:I:1152:GLU:HB3	3:I:1162:GLU:N	2.24	0.52
5:Y:43:ARG:C	5:Y:43:ARG:HD2	2.30	0.52
3:I:540:LEU:HD12	3:I:540:LEU:N	2.11	0.52
2:C:676:ILE:HD11	2:C:873:PRO:N	2.24	0.52
3:N:180:LYS:NZ	3:N:386:HIS:HA	2.24	0.52
2:C:252:LYS:HD2	2:C:298:PHE:HZ	1.73	0.52
2:C:300:ASP:HB2	2:C:302:VAL:CG1	2.39	0.52
3:D:539:ASP:O	3:D:541:ASN:N	2.42	0.52
3:I:719:VAL:HG12	3:I:720:LEU:HD22	1.92	0.52
2:M:721:ARG:HA	2:M:820:ARG:CZ	2.39	0.52
3:N:1326:THR:HG22	3:N:1327:ARG:H	1.74	0.52
3:D:1482:ARG:HH21	3:D:1483:PHE:HZ	1.57	0.52
3:I:165:LYS:HZ3	3:I:397:LYS:HB2	1.74	0.52
3:D:1260:ILE:HD12	3:D:1260:ILE:H	1.73	0.52
2:H:737:LEU:HD21	2:H:741:GLY:C	2.29	0.52
3:D:95:LEU:HD12	3:D:97:THR:O	2.09	0.52
2:C:374:ASN:O	2:C:377:PRO:HD2	2.08	0.52
1:L:137:ARG:NH1	1:L:139:ASN:HB3	2.24	0.52
3:I:826:PRO:HD2	3:I:829:VAL:HG22	1.90	0.52
3:N:637:LEU:HD12	3:N:641:GLN:NE2	2.24	0.52
2:H:629:TYR:O	2:H:637:LEU:HD12	2.10	0.52
1:K:101:LEU:HD11	1:K:113:ASP:CB	2.38	0.52
2:M:328:LEU:C	2:M:330:ASN:H	2.12	0.52
3:I:1391:GLU:HB3	3:I:1393:GLN:NE2	2.24	0.52
3:D:1200:VAL:CG1	3:D:1201:CYS:H	2.21	0.52
3:D:1221:VAL:O	3:D:1224:VAL:HB	2.09	0.52
2:C:1032:PHE:CD2	2:C:1037:VAL:HG22	2.45	0.52
2:M:30:LEU:CA	2:M:44:ILE:HD13	2.39	0.52
3:D:982:PHE:HD1	5:X:117:MET:HE1	1.75	0.52
2:M:196:LEU:O	2:M:200:LEU:HG	2.09	0.52
1:L:143:ARG:CZ	1:L:158:ILE:HG21	2.40	0.52
3:I:26:VAL:CG2	3:I:49:ILE:HD13	2.39	0.52
3:N:1288:GLU:O	3:N:1307:LYS:HE2	2.09	0.52
1:A:194:LYS:HG2	1:A:194:LYS:O	2.08	0.52
2:C:1043:TYR:HB3	3:D:763:MET:CE	2.39	0.52
5:Y:128:ALA:HB2	5:Y:140:LEU:HD21	1.91	0.52
2:M:276:LYS:HA	2:M:280:LYS:HE3	1.91	0.52
4:E:23:VAL:HG21	4:E:65:MET:HE3	1.91	0.52
5:Z:62:ILE:CG2	5:Z:63:ASP:N	2.72	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:919:ALA:HB1	2:M:964:LYS:NZ	2.24	0.52
3:D:185:VAL:HG21	3:D:203:ALA:HB3	1.91	0.52
2:H:714:ASP:OD2	2:H:719:PRO:HB3	2.09	0.52
3:I:989:TYR:O	3:I:993:LEU:HG	2.10	0.52
3:I:351:MET:HG2	3:I:370:ALA:HB2	1.92	0.52
2:C:432:ARG:HH22	3:D:1047:LYS:HG2	1.75	0.52
3:N:884:ARG:O	3:N:888:GLU:HB2	2.09	0.52
5:X:106:SER:HA	5:X:121:ASP:HB2	1.92	0.52
1:K:73:GLU:OE2	1:K:130:ALA:HA	2.10	0.52
1:B:173:PRO:O	1:B:201:THR:HG23	2.10	0.52
2:C:44:ILE:O	2:C:47:ALA:HB3	2.10	0.52
2:M:872:ASN:ND2	2:M:874:LEU:HB2	2.24	0.52
2:C:73:LEU:HD23	2:C:94:LEU:HB2	1.91	0.52
3:N:606:ILE:HG13	3:N:606:ILE:O	2.10	0.52
2:C:1008:ARG:O	3:D:625:TYR:HA	2.09	0.52
4:O:51:LEU:C	4:O:53:GLY:H	2.11	0.52
2:H:15:LEU:CD2	2:H:583:LEU:HD12	2.39	0.52
2:M:564:MET:HE2	2:M:840:ALA:HB3	1.91	0.52
3:D:869:MET:CE	3:D:897:TRP:HE1	2.23	0.52
2:C:537:LYS:NZ	2:C:904:PRO:HB3	2.24	0.52
3:N:1258:ARG:NE	3:N:1262:LEU:HD11	2.25	0.52
3:D:1293:PHE:CZ	3:D:1302:GLU:HB2	2.44	0.52
2:C:1035:MET:HA	2:C:1038:TRP:CE3	2.45	0.52
3:N:1408:ILE:CD1	3:N:1408:ILE:H	2.22	0.52
3:N:16:GLU:H	3:N:16:GLU:CD	2.13	0.52
5:Y:33:PHE:HE2	5:Y:52:ARG:HG2	1.75	0.52
2:C:229:MET:SD	2:C:229:MET:O	2.68	0.52
2:H:402:SER:HB3	2:H:566:THR:O	2.09	0.52
4:J:40:LEU:HD12	4:J:40:LEU:O	2.09	0.52
2:H:891:GLY:O	2:H:894:GLY:N	2.43	0.52
1:B:29:GLU:CD	1:B:30:ARG:H	2.13	0.52
3:I:859:ASP:O	3:I:877:PRO:HG2	2.09	0.52
2:M:543:ASN:OD1	2:M:562:SER:HB3	2.10	0.52
3:N:12:LEU:HD22	3:N:12:LEU:N	2.11	0.52
3:I:769:LEU:HG	3:I:924:MET:HE2	1.90	0.52
3:I:636:GLN:HE21	3:I:637:LEU:CB	2.23	0.52
3:I:653:PHE:CZ	3:I:695:ILE:HD13	2.44	0.52
3:D:562:ALA:HB2	2:H:226:VAL:HB	1.92	0.52
3:D:702:LEU:HB3	3:D:745:MET:CE	2.40	0.52
4:E:53:GLY:C	4:E:55:PHE:H	2.12	0.52
2:C:859:PRO:O	2:C:867:VAL:HG13	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:142:VAL:HG23	1:F:142:VAL:O	2.10	0.52
2:H:565:GLN:OE1	2:H:995:MET:CE	2.58	0.52
1:A:213:GLN:O	1:A:217:ILE:HG13	2.10	0.52
1:F:219:ARG:CA	1:F:222:LEU:HD22	2.38	0.52
2:C:1035:MET:HB2	2:C:1036:GLU:OE1	2.09	0.52
2:H:111:ASP:OD1	2:H:369:PRO:HG3	2.09	0.52
2:M:841:ASN:ND2	2:M:843:HIS:HB2	2.24	0.52
3:N:1485:GLN:HG3	4:O:79:LEU:H	1.74	0.52
5:X:33:PHE:HZ	5:X:51:ALA:C	2.13	0.52
1:F:50:GLY:O	1:F:146:ARG:HG3	2.08	0.52
2:M:92:ALA:HB2	2:M:120:LEU:HD11	1.92	0.52
2:M:381:ALA:O	2:M:384:GLU:HB3	2.10	0.52
1:L:172:SER:OG	1:L:174:VAL:HG23	2.08	0.52
2:M:544:THR:C	2:M:546:LEU:H	2.13	0.52
2:M:372:LEU:N	2:M:372:LEU:HD12	2.25	0.52
3:D:957:PRO:HG2	3:D:1007:VAL:HA	1.91	0.52
2:C:259:GLY:HA3	2:C:293:PHE:CD2	2.45	0.52
2:C:291:ALA:O	2:C:292:ARG:HB3	2.10	0.52
3:D:1274:ILE:HD11	3:D:1334:GLN:HB3	1.92	0.52
1:G:52:ALA:O	1:G:144:VAL:HG13	2.09	0.52
2:M:251:ASP:C	2:M:253:ALA:H	2.13	0.52
2:H:242:LEU:HD13	2:H:254:VAL:HG21	1.91	0.52
2:M:848:VAL:HG23	3:N:740:PHE:O	2.10	0.52
1:A:138:LEU:O	1:A:139:ASN:ND2	2.43	0.52
1:A:99:LEU:N	1:A:99:LEU:HD12	2.25	0.52
3:N:18:ILE:CD1	3:N:516:ALA:HB3	2.38	0.52
3:N:1124:GLN:HB3	3:N:1135:ARG:HG2	1.92	0.52
2:C:808:ARG:NH2	2:C:820:ARG:NE	2.57	0.52
2:C:909:ALA:HB1	2:C:914:ILE:CD1	2.38	0.52
2:M:129:ILE:HG12	2:M:386:PHE:O	2.09	0.52
2:M:34:VAL:HG21	2:M:38:LYS:HB2	1.92	0.52
2:M:889:HIS:O	2:M:892:LEU:HB3	2.10	0.52
1:B:138:LEU:HD13	1:B:138:LEU:C	2.29	0.52
3:N:1101:VAL:HG12	3:N:1428:ALA:HB2	1.90	0.52
3:D:1435:LEU:HD13	3:D:1457:ASP:CG	2.30	0.52
2:M:1109:VAL:HG11	3:N:5:VAL:CG2	2.40	0.52
2:M:103:LYS:NZ	2:M:103:LYS:HB3	2.24	0.52
3:N:787:LEU:HG	3:N:788:GLY:N	2.23	0.52
3:D:1385:GLY:HA2	3:D:1413:THR:HG21	1.92	0.52
3:D:618:LEU:C	3:D:620:GLY:H	2.13	0.52
3:D:1225:ALA:HA	3:D:1367:HIS:HB3	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1053:PHE:CE1	3:N:1072:ILE:HG23	2.44	0.52
2:M:532:MET:HG2	2:M:533:ASP:N	2.23	0.52
2:C:693:GLU:HA	2:C:696:LYS:HD2	1.92	0.52
1:G:66:SER:O	1:G:75:VAL:HG23	2.09	0.52
3:I:783:ARG:O	3:I:784:ASP:C	2.48	0.52
2:M:442:GLU:OE2	2:M:543:ASN:HB3	2.10	0.52
3:D:537:THR:O	3:D:538:SER:O	2.27	0.52
1:G:185:ARG:CD	1:G:186:LEU:N	2.72	0.52
3:I:1107:VAL:HB	3:I:1218:GLY:N	2.16	0.52
4:J:54:LEU:CG	4:J:58:PRO:HB3	2.37	0.52
4:J:28:GLN:HB3	4:J:32:ARG:HH12	1.75	0.52
1:L:56:VAL:HG13	1:L:142:VAL:HG12	1.92	0.52
2:C:465:GLY:O	2:C:466:PHE:C	2.48	0.52
1:F:64:GLU:O	1:F:75:VAL:HB	2.10	0.52
3:D:1422:MET:CE	3:D:1426:LYS:HB3	2.39	0.52
3:N:844:ALA:CB	3:N:867:ARG:HH22	2.18	0.52
3:N:902:LEU:CD2	3:N:902:LEU:H	2.17	0.52
3:N:758:GLU:HB3	4:O:20:THR:CG2	2.37	0.52
5:X:102:VAL:HG13	5:X:103:GLN:N	2.25	0.52
1:A:151:VAL:N	1:A:169:ALA:HB3	2.24	0.52
2:M:302:VAL:HG22	2:M:303:PHE:CD1	2.45	0.52
3:N:367:ILE:HD12	3:N:377:VAL:HG12	1.90	0.52
2:H:943:VAL:HG13	2:H:944:LEU:H	1.74	0.52
2:H:861:LEU:HD21	2:H:925:TYR:CE2	2.45	0.52
2:M:577:PRO:HB3	2:M:842:ARG:NH1	2.24	0.52
3:I:548:ILE:HD12	3:I:548:ILE:H	1.75	0.52
3:I:587:ARG:HG2	3:I:587:ARG:NH1	2.24	0.52
1:B:62:LEU:HD22	1:B:63:HIS:HB2	1.92	0.52
2:C:1043:TYR:CD2	3:D:763:MET:HG3	2.45	0.52
2:C:693:GLU:OE2	2:C:855:VAL:HG21	2.09	0.52
2:M:603:VAL:HG23	2:M:647:GLN:O	2.10	0.52
1:G:56:VAL:HG12	1:G:57:TYR:N	2.24	0.52
3:I:563:PRO:O	3:I:567:ILE:HG12	2.10	0.52
2:M:666:LEU:HD11	2:M:668:LEU:CG	2.30	0.52
2:C:146:VAL:HG12	2:C:276:LYS:O	2.10	0.52
2:C:271:GLU:HB3	2:C:464:LEU:HD11	1.92	0.52
2:M:1046:ALA:CA	3:N:1472:ILE:HD11	2.28	0.52
3:D:800:LYS:NZ	3:D:804:LEU:HD12	2.24	0.52
3:D:813:LEU:HD12	3:D:814:ALA:CB	2.39	0.52
2:C:1080:SER:O	2:C:1081:VAL:HG23	2.09	0.52
3:D:1330:ILE:HD13	3:D:1347:TYR:CE1	2.44	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:333:ILE:HD13	2:H:334:ARG:H	1.75	0.52
2:H:418:LEU:HD12	2:H:418:LEU:N	2.25	0.52
3:D:119:SER:CB	3:D:123:LEU:HD22	2.40	0.52
2:H:198:ARG:HG3	2:H:228:ALA:HA	1.91	0.52
3:N:99:ALA:HB3	3:N:514:LEU:CD1	2.39	0.52
4:E:47:LYS:C	4:E:54:LEU:HB3	2.30	0.52
2:H:569:VAL:HG12	2:H:996:LYS:O	2.10	0.52
2:C:722:ILE:HD12	2:C:805:ARG:HH21	1.75	0.52
2:C:643:VAL:HG12	2:C:644:VAL:H	1.74	0.52
2:C:606:VAL:HG21	2:C:645:VAL:HG22	1.91	0.52
2:M:569:VAL:HG12	2:M:996:LYS:O	2.09	0.52
1:G:123:MET:C	1:G:125:PRO:HD3	2.30	0.52
2:C:404:LEU:HD21	2:C:591:SER:OG	2.10	0.52
3:I:1280:VAL:HG22	3:I:1295:GLU:O	2.10	0.52
3:I:367:ILE:HG22	3:I:368:VAL:HG23	1.92	0.52
1:L:100:LEU:H	1:L:115:LEU:HD11	1.74	0.52
3:I:1240:THR:HG23	5:Y:56:TRP:CH2	2.44	0.52
5:X:68:ILE:CD1	5:X:71:ARG:HH21	2.22	0.52
3:D:509:PRO:O	3:D:512:MET:HG2	2.09	0.52
3:I:1183:ILE:O	3:I:1183:ILE:HD12	2.09	0.52
1:G:175:ARG:O	1:G:176:ARG:HB2	2.08	0.52
2:M:1096:ALA:O	2:M:1097:LEU:C	2.47	0.52
3:N:1295:GLU:HB3	3:N:1300:SER:HB3	1.92	0.52
1:F:88:ARG:HH12	1:F:90:LEU:HD12	1.75	0.52
3:N:1351:GLU:OE1	3:N:1351:GLU:HA	2.10	0.52
1:K:31:GLY:O	1:K:34:VAL:HG12	2.10	0.52
2:C:522:VAL:HG12	2:C:523:ILE:N	2.25	0.52
2:M:668:LEU:O	2:M:995:MET:HB3	2.10	0.52
2:C:196:LEU:O	2:C:200:LEU:HG	2.10	0.52
2:C:474:VAL:HG23	2:C:478:VAL:O	2.10	0.52
3:N:806:PHE:CE1	3:N:813:LEU:HB3	2.45	0.52
3:N:1211:MET:HG2	3:N:1212:ALA:N	2.19	0.52
3:D:1478:SER:O	3:D:1482:ARG:HB2	2.10	0.52
4:E:15:SER:O	4:E:18:ARG:HB3	2.10	0.52
3:I:187:LYS:HG2	3:I:199:LEU:C	2.29	0.52
2:M:157:ARG:HB3	2:M:176:VAL:HG21	1.92	0.52
2:M:289:THR:O	2:M:291:ALA:N	2.43	0.52
2:H:197:LEU:HA	2:H:200:LEU:HD12	1.91	0.52
2:H:257:VAL:HG12	2:H:263:ASP:OD2	2.09	0.52
2:H:281:LEU:HD23	2:H:281:LEU:H	1.74	0.52
3:D:130:SER:O	3:D:568:ARG:NH2	2.43	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:J:23:VAL:HG22	4:J:68:LEU:HD21	1.91	0.52
2:C:373:VAL:HG12	2:C:374:ASN:N	2.24	0.52
4:E:47:LYS:HA	4:E:54:LEU:HB3	1.92	0.52
2:M:1006:HIS:CD2	2:M:1027:PHE:CD2	2.98	0.52
2:M:575:GLN:HB2	2:M:670:GLN:HA	1.92	0.52
2:C:154:ARG:HH12	2:C:178:PRO:CG	2.19	0.52
3:N:18:ILE:HD12	3:N:516:ALA:HB3	1.92	0.52
2:M:572:ILE:CG1	2:M:573:ARG:N	2.72	0.52
2:C:905:ILE:H	2:C:905:ILE:CD1	2.23	0.52
3:N:907:GLU:O	3:N:908:LYS:C	2.48	0.52
3:N:519:VAL:HG13	3:N:544:TYR:CE2	2.45	0.52
1:B:132:LEU:HD11	1:B:138:LEU:HB3	1.92	0.52
2:H:292:ARG:NE	2:H:299:LYS:HE2	2.25	0.52
2:M:1055:LEU:HD11	2:M:1079:PRO:HD3	1.92	0.52
2:C:455:LEU:HD11	2:C:459:ALA:HB3	1.91	0.52
3:I:1359:GLN:HE21	3:I:1359:GLN:CA	2.22	0.52
2:C:443:THR:HG21	3:D:1078:ARG:NE	2.25	0.52
3:I:845:ASN:HD22	3:I:845:ASN:N	2.08	0.52
2:M:133:ASP:HB2	2:M:632:ASN:HD21	1.75	0.52
5:Z:27:GLN:O	5:Z:30:SER:HB3	2.10	0.52
3:N:107:ASP:O	3:N:108:VAL:C	2.47	0.51
1:K:178:ALA:HB2	2:M:864:GLY:H	1.74	0.51
2:M:710:ILE:HD11	2:M:758:ARG:NH1	2.26	0.51
2:C:242:LEU:HD13	2:C:254:VAL:HG21	1.91	0.51
3:D:851:LEU:O	3:D:855:HIS:HB2	2.11	0.51
1:G:45:LEU:HA	1:G:48:ILE:HD11	1.93	0.51
2:H:854:PRO:CB	2:H:856:GLU:HG2	2.37	0.51
2:H:249:LYS:HG2	2:H:250:ARG:H	1.74	0.51
3:N:162:ARG:CD	3:N:452:ILE:HD12	2.40	0.51
2:H:144:PRO:HG2	2:H:265:ARG:CZ	2.39	0.51
3:N:103:TRP:HZ2	3:N:604:THR:HG1	1.58	0.51
3:I:813:LEU:HD12	3:I:814:ALA:N	2.24	0.51
2:C:203:ASP:O	2:C:207:LEU:HB2	2.09	0.51
3:I:117:ASP:HB2	3:I:495:ARG:HH12	1.75	0.51
1:G:100:LEU:CG	1:G:115:LEU:HD11	2.40	0.51
2:H:354:GLY:HA3	2:H:358:ARG:NH1	2.25	0.51
3:N:1121:PRO:HD2	3:N:1346:ARG:HH21	1.75	0.51
2:H:1046:ALA:HB1	3:I:1471:LEU:CD1	2.39	0.51
3:N:1377:LYS:HD3	3:N:1378:TYR:CE1	2.44	0.51
3:I:455:ARG:HB3	3:I:459:GLU:OE1	2.11	0.51
2:C:525:SER:C	2:C:527:GLU:H	2.14	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:X:99:ARG:NE	5:X:152:VAL:HG21	2.24	0.51
2:C:557:ARG:NH1	2:C:557:ARG:HG3	2.23	0.51
3:I:181:ASP:CG	3:I:441:ARG:HE	2.13	0.51
1:L:211:LEU:O	1:L:214:ALA:HB3	2.10	0.51
1:K:39:PRO:HG3	1:L:39:PRO:CG	2.38	0.51
3:N:829:VAL:HG12	3:N:830:ALA:H	1.76	0.51
2:C:275:TYR:CE2	2:C:280:LYS:NZ	2.79	0.51
3:I:780:LYS:NZ	5:Y:38:GLU:OE2	2.37	0.51
3:N:1435:LEU:HD23	3:N:1464:GLU:HB2	1.93	0.51
3:N:817:GLU:O	3:N:821:VAL:HG23	2.09	0.51
1:K:111:ALA:HB2	1:K:127:LEU:HD23	1.92	0.51
3:D:10:ILE:O	3:D:10:ILE:HG23	2.10	0.51
2:H:196:LEU:C	2:H:196:LEU:HD22	2.31	0.51
2:H:283:ILE:HG12	2:H:284:ARG:H	1.76	0.51
2:H:341:THR:O	2:H:344:PHE:HB3	2.11	0.51
3:D:1391:GLU:HB3	3:D:1393:GLN:NE2	2.25	0.51
2:C:350:ARG:HH21	2:C:381:ALA:HB2	1.75	0.51
3:D:719:VAL:CG1	3:D:720:LEU:HD22	2.40	0.51
1:F:59:GLU:CG	1:F:139:ASN:HB3	2.37	0.51
2:H:15:LEU:CD1	2:H:15:LEU:H	2.21	0.51
2:M:1061:GLU:HG3	3:N:84:ILE:HG13	1.92	0.51
2:H:10:ARG:HA	2:H:10:ARG:NH1	2.18	0.51
1:K:89:PHE:HE1	1:K:146:ARG:HB3	1.75	0.51
3:D:1277:ILE:HD12	3:D:1277:ILE:N	2.25	0.51
2:H:544:THR:C	2:H:546:LEU:H	2.12	0.51
2:M:501:THR:HG22	2:M:513:VAL:HG12	1.92	0.51
5:Z:37:LEU:HD23	5:Z:42:LEU:HD11	1.92	0.51
3:N:345:TYR:CE1	3:N:377:VAL:HG22	2.45	0.51
2:H:1107:ASN:HD22	3:I:2:LYS:HZ2	1.56	0.51
1:K:99:LEU:HB2	1:K:142:VAL:CG2	2.40	0.51
2:M:258:TYR:N	2:M:258:TYR:CD1	2.79	0.51
2:M:579:VAL:HG13	2:M:579:VAL:O	2.10	0.51
3:I:1403:LEU:O	3:I:1407:LEU:HB2	2.11	0.51
2:M:54:ILE:HG12	2:M:64:LEU:HD21	1.92	0.51
3:D:800:LYS:HD3	3:D:803:GLY:N	2.25	0.51
1:K:73:GLU:CD	1:K:130:ALA:HA	2.30	0.51
3:I:137:PRO:CG	3:I:453:ASP:HB2	2.40	0.51
2:H:705:ILE:HG23	2:H:827:VAL:O	2.10	0.51
1:K:177:VAL:CG2	1:K:199:ILE:HG22	2.31	0.51
1:L:56:VAL:HG12	1:L:57:TYR:N	2.25	0.51
3:I:802:ALA:O	3:I:804:LEU:N	2.44	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:O:48:MET:HB3	4:O:51:LEU:O	2.10	0.51
4:O:59:ASN:ND2	4:O:62:THR:H	2.08	0.51
4:O:73:LEU:HD13	4:O:73:LEU:N	2.25	0.51
2:C:858:MET:HG3	2:C:867:VAL:HG22	1.93	0.51
5:X:42:LEU:O	5:X:43:ARG:CB	2.58	0.51
3:I:105:VAL:HG22	3:I:112:ILE:CG2	2.41	0.51
1:F:165:ILE:HD12	1:F:165:ILE:N	2.25	0.51
3:I:851:LEU:O	3:I:855:HIS:HB2	2.11	0.51
2:H:606:VAL:HA	2:H:611:ILE:CD1	2.40	0.51
1:G:104:GLU:HA	1:G:132:LEU:HD23	1.92	0.51
3:N:1422:MET:HE2	3:N:1427:SER:HA	1.92	0.51
2:H:73:LEU:CB	2:H:94:LEU:HA	2.41	0.51
3:I:119:SER:HB2	3:I:123:LEU:N	2.24	0.51
2:C:578:VAL:HG23	2:C:579:VAL:HG13	1.91	0.51
2:H:129:ILE:HD12	2:H:386:PHE:HB3	1.93	0.51
3:D:1333:HIS:O	3:D:1336:LEU:HB3	2.09	0.51
5:Z:45:ASN:O	5:Z:48:TYR:N	2.27	0.51
3:D:615:ARG:CZ	3:D:1439:SER:O	2.58	0.51
3:N:1288:GLU:O	3:N:1307:LYS:HG3	2.10	0.51
3:N:1277:ILE:HD12	3:N:1277:ILE:H	1.74	0.51
3:I:206:ARG:HE	3:I:206:ARG:HA	1.76	0.51
3:N:916:TYR:CZ	3:N:920:LEU:HD11	2.45	0.51
2:M:124:ASP:OD1	2:M:124:ASP:N	2.41	0.51
3:I:959:GLU:CD	3:I:959:GLU:H	2.14	0.51
2:H:323:ASP:OD2	2:H:323:ASP:N	2.42	0.51
3:I:1330:ILE:HD12	3:I:1330:ILE:N	2.25	0.51
3:I:17:LYS:HG2	3:I:21:TRP:HE1	1.75	0.51
3:N:1117:TYR:C	3:N:1118:ILE:HD12	2.30	0.51
5:Y:45:ASN:OD1	5:Y:45:ASN:N	2.43	0.51
2:H:355:VAL:HG23	2:H:372:LEU:HD11	1.92	0.51
2:M:946:ARG:HH22	3:N:796:ARG:NH1	2.07	0.51
2:M:755:LEU:HB2	2:M:790:LEU:HD23	1.91	0.51
2:C:281:LEU:HD23	2:C:281:LEU:H	1.76	0.51
2:C:463:GLU:HB2	2:C:464:LEU:CD2	2.41	0.51
3:D:811:GLU:HG2	3:D:815:ALA:HB2	1.92	0.51
3:D:1258:ARG:HE	3:D:1262:LEU:HD11	1.75	0.51
1:F:32:PHE:CZ	1:G:43:ILE:HD12	2.44	0.51
3:D:1087:ARG:HH21	3:D:1235:GLN:HG3	1.75	0.51
2:H:199:VAL:HG13	2:H:235:LEU:HD23	1.93	0.51
2:H:199:VAL:HG23	2:H:234:ALA:HB1	1.92	0.51
2:C:66:LEU:CD1	2:C:98:LEU:HD23	2.32	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1099:VAL:HG22	3:D:1226:ALA:HB1	1.92	0.51
3:D:563:PRO:CA	2:H:223:ASP:HB2	2.36	0.51
2:H:1016:ILE:H	2:H:1016:ILE:CD1	2.05	0.51
1:F:57:TYR:CE2	1:F:161:ARG:HD2	2.45	0.51
3:D:1192:LEU:H	3:D:1192:LEU:HD22	1.74	0.51
1:B:156:HIS:CD2	1:B:157:GLY:H	2.28	0.51
1:A:99:LEU:O	1:A:142:VAL:HG22	2.11	0.51
2:C:221:LEU:C	2:C:223:ASP:H	2.14	0.51
3:D:431:VAL:HG12	3:D:432:TYR:N	2.21	0.51
1:F:84:GLU:HG2	1:F:127:LEU:HD11	1.92	0.51
4:E:81:PRO:HB2	4:E:84:ARG:HB2	1.92	0.51
3:D:1498:ALA:CB	4:E:84:ARG:HH21	2.20	0.51
2:C:724:ARG:HG2	2:C:737:LEU:HD22	1.90	0.51
3:N:1256:LEU:O	3:N:1259:VAL:N	2.42	0.51
3:N:1259:VAL:O	3:N:1263:PHE:HD1	1.92	0.51
1:L:98:THR:HG23	1:L:143:ARG:HG3	1.92	0.51
3:N:1424:VAL:HG13	3:N:1425:THR:H	1.74	0.51
2:H:881:ASN:HD22	2:H:884:GLN:HE22	1.58	0.51
5:Y:93:ASP:OD1	5:Y:94:PRO:HD2	2.11	0.51
3:D:409:VAL:HG12	3:D:435:VAL:HG11	1.93	0.51
3:N:631:ILE:H	3:N:631:ILE:CD1	2.23	0.51
3:D:1460:ILE:HG13	3:D:1460:ILE:O	2.10	0.51
3:N:794:GLN:HG2	3:N:1017:PHE:CE2	2.44	0.51
3:N:463:GLN:HA	3:N:466:LYS:HE2	1.93	0.51
2:H:1094:ALA:CB	2:H:1095:LEU:HD13	2.40	0.51
3:D:815:ALA:HA	3:D:818:ARG:HD2	1.92	0.51
1:F:169:ALA:HB1	1:F:171:PHE:CE2	2.46	0.51
1:F:41:ARG:NH1	1:F:177:VAL:O	2.44	0.51
2:H:885:ILE:HG22	2:H:889:HIS:CE1	2.44	0.51
3:I:139:GLY:H	3:I:147:VAL:CG2	2.24	0.51
1:B:32:PHE:O	1:B:36:LEU:HG	2.10	0.51
2:C:54:ILE:HG12	2:C:64:LEU:HD23	1.92	0.51
5:Z:111:ASN:N	5:Z:118:LYS:HB2	2.25	0.51
3:D:1229:ILE:C	3:D:1232:PRO:HD2	2.29	0.51
3:D:95:LEU:HD13	3:D:96:ALA:H	1.74	0.51
3:D:728:LEU:HD22	3:D:745:MET:SD	2.50	0.51
3:I:853:VAL:HG22	3:I:858:VAL:HG23	1.93	0.51
3:I:1485:GLN:NE2	4:J:79:LEU:H	2.09	0.51
3:I:663:GLU:C	3:I:664:LYS:HD3	2.30	0.51
3:I:1103:HIS:O	3:I:1462:LEU:HD12	2.10	0.51
5:Y:7:LEU:HD22	5:Y:109:GLU:HG3	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:405:ARG:HH12	2:C:563:ASN:HA	1.75	0.51
2:M:633:GLN:O	2:M:998:TYR:HE1	1.93	0.51
3:N:633:VAL:HG22	3:N:635:PRO:HD3	1.93	0.51
2:H:8:ARG:N	2:H:907:ASP:OD2	2.44	0.51
2:H:432:ARG:HH22	3:I:1047:LYS:HG2	1.75	0.51
2:H:26:TYR:CZ	2:H:30:LEU:HD21	2.45	0.51
2:H:54:ILE:HG22	2:H:66:LEU:O	2.10	0.51
2:C:165:LEU:HG	2:C:166:PRO:C	2.31	0.51
2:C:263:ASP:CB	2:C:264:PRO:HD3	2.39	0.51
2:M:292:ARG:CB	2:M:299:LYS:HG2	2.41	0.51
3:N:169:TYR:HB2	3:N:393:ILE:O	2.10	0.51
3:N:982:PHE:HA	5:Z:125:MET:SD	2.51	0.51
2:C:1029:GLY:HA3	3:D:623:VAL:O	2.10	0.51
3:D:644:LEU:C	3:D:721:VAL:HG22	2.30	0.51
3:N:148:GLU:HG2	3:N:151:GLN:HB3	1.92	0.51
1:G:80:LEU:CD1	3:I:844:ALA:HA	2.40	0.51
2:H:622:GLU:HG3	2:H:623:TYR:H	1.76	0.51
1:K:57:TYR:O	1:K:140:MET:HA	2.10	0.51
3:N:84:ILE:HD13	3:N:84:ILE:H	1.75	0.51
2:C:939:ARG:HB2	2:C:975:TYR:OH	2.10	0.51
2:C:127:PHE:O	2:C:133:ASP:HA	2.10	0.51
3:N:654:LYS:CB	3:N:655:PRO:HD3	2.41	0.51
2:C:521:PRO:HG3	3:D:1068:LEU:HD21	1.91	0.51
1:L:88:ARG:HB2	1:L:123:MET:HE2	1.93	0.51
2:M:238:LEU:CD2	2:M:241:LEU:HD12	2.36	0.51
2:M:304:LEU:CB	2:M:305:PRO:HD3	2.40	0.51
1:L:99:LEU:HD22	1:L:114:PHE:HD2	1.75	0.51
3:D:1189:ARG:HG3	3:D:1189:ARG:NH1	2.24	0.51
1:K:132:LEU:HG	1:K:136:GLY:HA3	1.93	0.51
2:C:943:VAL:CG1	2:C:944:LEU:N	2.74	0.51
3:N:186:VAL:HA	3:N:200:ASP:OD1	2.10	0.51
1:K:137:ARG:HG3	1:K:137:ARG:NH1	2.23	0.51
1:B:207:PRO:O	1:B:210:ALA:HB3	2.10	0.51
3:D:433:GLY:HA3	3:D:447:VAL:O	2.10	0.51
3:N:1305:LEU:HD23	3:N:1305:LEU:H	1.76	0.51
3:N:1044:LEU:H	3:N:1044:LEU:HD12	1.74	0.51
2:M:600:ASP:OD1	2:M:649:VAL:O	2.29	0.51
1:F:156:HIS:ND1	1:F:158:ILE:HD11	2.26	0.51
3:I:1036:ARG:NH2	3:I:1042:ARG:HA	2.25	0.51
2:M:839:LEU:N	2:M:839:LEU:HD23	2.26	0.51
2:M:374:ASN:O	2:M:377:PRO:HD2	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:804:LEU:CD2	3:N:831:GLY:HA2	2.12	0.51
3:N:835:SER:N	3:N:838:ARG:HD3	2.26	0.51
2:C:293:PHE:HA	2:C:298:PHE:CD2	2.46	0.51
3:N:520:LEU:O	3:N:525:ARG:NH2	2.44	0.51
2:H:879:ARG:HH11	2:H:879:ARG:HG3	1.75	0.51
2:H:290:LEU:HA	2:H:302:VAL:HG11	1.92	0.51
2:H:800:VAL:HA	2:H:827:VAL:HA	1.92	0.51
2:H:704:HIS:CE1	2:H:831:ARG:HG3	2.46	0.51
1:B:43:ILE:O	1:B:48:ILE:HD13	2.11	0.51
2:C:1056:LYS:O	3:D:624:ASP:OD1	2.28	0.51
3:I:834:THR:HG22	3:I:838:ARG:HD3	1.91	0.51
3:D:1160:LEU:CD2	3:D:1164:ARG:HD2	2.39	0.51
3:N:84:ILE:O	3:N:87:ARG:HG2	2.11	0.51
3:D:204:LEU:HD11	3:D:441:ARG:NH1	2.25	0.51
3:D:1106:VAL:HG12	3:D:1107:VAL:N	2.24	0.51
2:C:537:LYS:O	2:C:539:VAL:N	2.44	0.51
1:F:211:LEU:O	1:F:215:VAL:HG23	2.11	0.51
3:N:1370:ILE:O	3:N:1373:ARG:HB3	2.11	0.51
2:C:1037:VAL:O	2:C:1040:LEU:HB3	2.11	0.51
2:M:44:ILE:N	2:M:44:ILE:CD1	2.73	0.51
3:N:554:LEU:O	3:N:558:LEU:HG	2.11	0.51
2:C:706:GLU:HB3	2:C:827:VAL:HG13	1.93	0.51
4:O:26:ARG:HH22	4:O:37:ASN:HB3	1.73	0.51
3:D:18:ILE:HG23	3:D:518:PRO:CG	2.41	0.51
3:D:984:THR:CG2	3:D:987:GLU:H	2.23	0.51
2:M:750:LYS:HE3	2:M:751:PRO:HD3	1.93	0.51
3:I:895:VAL:HG22	3:I:921:ARG:HH22	1.76	0.51
5:Y:5:VAL:HB	5:Y:72:ALA:CB	2.40	0.51
1:A:178:ALA:HB2	2:C:864:GLY:H	1.75	0.51
1:L:221:HIS:HA	1:L:224:TYR:HD2	1.75	0.51
1:L:206:THR:HG23	1:L:208:LEU:HB3	1.92	0.51
3:D:618:LEU:O	3:D:620:GLY:N	2.44	0.51
1:B:122:ILE:HD12	1:B:122:ILE:H	1.76	0.51
3:I:1047:LYS:NZ	3:I:1053:PHE:HA	2.26	0.51
2:M:52:PHE:HE1	2:M:66:LEU:HD12	1.76	0.51
2:C:877:PRO:HG3	3:D:1023:MET:SD	2.50	0.51
2:M:946:ARG:O	2:M:950:LEU:HB2	2.11	0.51
2:C:194:VAL:HA	2:C:197:LEU:CD1	2.39	0.51
2:C:253:ALA:O	2:C:257:VAL:HG23	2.11	0.51
2:C:473:ARG:HA	2:C:531:PHE:CE1	2.45	0.51
2:M:283:ILE:CG2	2:M:284:ARG:H	2.08	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:153:ALA:HA	1:A:167:VAL:O	2.11	0.51
2:H:268:ASP:OD2	2:H:272:ALA:HB2	2.11	0.51
3:D:642:CYS:O	3:D:718:PRO:HA	2.11	0.51
2:H:1051:GLU:OE2	3:I:751:LEU:HB2	2.10	0.51
2:C:755:LEU:HD12	2:C:790:LEU:CD2	2.41	0.51
3:D:181:ASP:HA	3:D:205:TYR:HB3	1.92	0.51
5:Z:6:LYS:CB	5:Z:75:LEU:HD11	2.39	0.51
2:C:571:LEU:HD23	2:C:700:TYR:HA	1.93	0.51
2:H:1019:GLN:CD	3:I:621:LYS:HD2	2.31	0.51
3:N:461:ILE:CG2	3:N:464:LEU:HD12	2.40	0.51
2:M:367:LEU:HB2	2:M:371:LYS:HG2	1.91	0.51
1:A:57:TYR:HE1	1:A:163:ASN:CB	2.24	0.51
3:I:957:PRO:HG2	3:I:1007:VAL:HA	1.93	0.51
2:M:1065:ALA:C	2:M:1077:PRO:HG2	2.31	0.51
3:D:1465:ASN:ND2	3:D:1470:ARG:HB3	2.24	0.51
1:K:67:THR:HG21	2:M:609:ASN:ND2	2.26	0.51
1:B:13:VAL:HG13	1:B:23:PHE:CD1	2.46	0.51
1:B:209:GLU:O	1:B:210:ALA:C	2.48	0.51
2:H:243:ARG:H	2:H:243:ARG:NE	2.09	0.51
2:C:1013:TYR:CE2	2:C:1063:ARG:NH2	2.79	0.51
3:I:588:GLY:O	3:I:589:ALA:HB2	2.11	0.51
2:C:458:TYR:O	2:C:460:ARG:HG3	2.11	0.51
2:M:439:CYS:SG	2:M:540:PHE:HB3	2.51	0.51
3:I:781:PRO:C	3:I:786:ILE:HD11	2.31	0.51
3:I:566:ILE:HD12	3:I:566:ILE:N	2.25	0.51
3:I:583:ASP:OD2	3:I:604:THR:HG21	2.10	0.51
2:M:546:LEU:HB2	2:M:565:GLN:OE1	2.11	0.51
2:C:988:VAL:HG11	3:D:949:ILE:O	2.11	0.51
3:N:835:SER:H	3:N:838:ARG:HD3	1.76	0.51
2:C:145:GLY:HA3	2:C:276:LYS:CG	2.41	0.51
2:C:252:LYS:HE3	2:C:256:TYR:CD1	2.46	0.51
2:C:328:LEU:N	2:C:328:LEU:HD12	2.25	0.51
2:H:678:PRO:HD3	2:H:873:PRO:HG2	1.93	0.51
3:N:806:PHE:CD1	3:N:812:ALA:HB3	2.46	0.51
3:N:832:ARG:HH11	3:N:832:ARG:HG3	1.75	0.51
3:I:1098:LEU:O	3:I:1101:VAL:HG22	2.10	0.51
3:I:736:PHE:O	3:I:738:ALA:N	2.43	0.51
3:N:162:ARG:HD2	3:N:452:ILE:HD12	1.93	0.51
2:C:1005:MET:N	3:D:628:ARG:HH12	2.09	0.51
3:D:749:VAL:O	3:D:749:VAL:HG23	2.10	0.51
3:N:642:CYS:O	3:N:718:PRO:HA	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:101:LEU:CD2	1:F:102:LYS:N	2.73	0.51
1:F:58:ILE:CG2	1:F:59:GLU:N	2.73	0.51
1:F:78:ILE:HD12	1:F:130:ALA:CB	2.40	0.51
2:H:118:ILE:N	2:H:118:ILE:CD1	2.73	0.51
2:H:581:THR:HG1	2:H:583:LEU:HD23	1.74	0.51
2:C:722:ILE:O	2:C:722:ILE:HD13	2.11	0.51
3:D:162:ARG:CZ	3:D:452:ILE:HG23	2.41	0.51
3:N:1036:ARG:NH1	3:N:1041:LEU:O	2.44	0.51
3:N:1040:GLY:O	3:N:1041:LEU:HB3	2.11	0.51
3:N:112:ILE:CD1	3:N:115:LEU:HD22	2.41	0.51
2:H:442:GLU:OE2	2:H:541:SER:HB3	2.10	0.51
1:L:83:LYS:HD3	1:L:168:ASP:HB2	1.92	0.51
3:N:1119:SER:O	3:N:1121:PRO:HD3	2.11	0.51
2:C:599:GLU:HA	2:C:651:LYS:HG3	1.93	0.51
2:C:1103:ASP:CG	2:C:1104:GLU:H	2.14	0.51
2:M:592:LEU:HD22	2:M:592:LEU:O	2.11	0.51
2:H:918:LEU:HD21	2:H:967:PHE:O	2.11	0.51
1:G:162:ILE:N	1:G:162:ILE:CD1	2.74	0.51
1:A:123:MET:SD	1:A:203:GLY:O	2.69	0.51
2:H:579:VAL:O	2:H:579:VAL:HG13	2.10	0.51
2:M:1038:TRP:O	2:M:1041:GLU:HB2	2.10	0.51
2:C:759:THR:O	2:C:760:SER:HB2	2.10	0.51
1:G:211:LEU:O	1:G:214:ALA:HB3	2.11	0.51
5:X:100:LEU:HD12	5:X:101:SER:H	1.76	0.51
2:M:911:GLU:HB3	2:M:912:PRO:HD3	1.92	0.51
3:D:964:LEU:HD23	3:D:964:LEU:C	2.30	0.51
1:L:173:PRO:HB3	1:L:202:ASP:OD1	2.11	0.51
2:H:939:ARG:HE	2:H:939:ARG:HA	1.75	0.51
2:C:636:ALA:HB2	2:C:703:ILE:HD13	1.92	0.51
2:M:294:GLU:HG2	2:M:295:ASP:N	2.26	0.51
3:N:142:LEU:HD22	3:N:142:LEU:N	2.26	0.51
3:D:207:PHE:O	3:D:390:PRO:HA	2.11	0.51
2:C:94:LEU:HD22	2:C:95:TYR:N	2.25	0.51
3:D:642:CYS:HB3	3:D:716:PHE:HB3	1.92	0.51
3:D:102:ILE:HG22	3:D:582:LEU:CD1	2.40	0.51
2:H:1056:LYS:NZ	3:I:625:TYR:HB2	2.26	0.51
1:F:100:LEU:HD22	1:F:115:LEU:HD21	1.93	0.51
1:B:125:PRO:O	1:B:127:LEU:N	2.43	0.51
1:B:127:LEU:HD22	1:B:129:ILE:HD13	1.93	0.51
2:C:722:ILE:CD1	2:C:741:GLY:HA3	2.40	0.51
1:K:165:ILE:HD13	1:K:165:ILE:N	2.19	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:1394:VAL:HB	3:I:1397:LYS:CG	2.40	0.51
3:N:116:LEU:HG	3:N:464:LEU:HD11	1.92	0.51
1:A:57:TYR:CE1	1:A:161:ARG:HG2	2.46	0.51
3:D:200:ASP:N	3:D:200:ASP:OD2	2.43	0.51
5:Y:19:LEU:HD11	5:Y:62:ILE:HD12	1.91	0.51
2:M:842:ARG:NH2	2:M:993:PHE:HB3	2.26	0.51
5:X:26:LEU:HD13	5:X:58:ASN:HB2	1.91	0.51
3:I:125:GLN:NE2	3:I:587:ARG:HH21	2.09	0.51
2:M:343:GLN:HE21	2:M:343:GLN:HA	1.76	0.51
3:D:824:ASN:HD22	3:D:824:ASN:N	2.07	0.51
3:N:1132:LEU:HD12	3:N:1132:LEU:H	1.75	0.51
1:K:43:ILE:HD12	1:L:32:PHE:CE2	2.46	0.50
1:L:44:LEU:O	1:L:174:VAL:HG21	2.11	0.50
2:M:971:LYS:HB3	2:M:986:PRO:HB3	1.92	0.50
3:N:1468:LEU:HD22	3:N:1468:LEU:N	2.26	0.50
3:N:1209:LEU:HD13	3:N:1215:VAL:HA	1.93	0.50
3:I:185:VAL:HG21	3:I:191:LEU:HD21	1.93	0.50
4:J:23:VAL:HG22	4:J:68:LEU:CD2	2.41	0.50
2:C:1096:ALA:O	2:C:1097:LEU:C	2.49	0.50
1:F:102:LYS:HB2	1:F:138:LEU:O	2.12	0.50
2:H:575:GLN:NE2	2:H:671:ASN:N	2.58	0.50
3:D:1245:GLY:O	3:D:1246:VAL:CG1	2.53	0.50
2:H:953:VAL:HG11	2:H:962:GLN:HB3	1.93	0.50
2:H:409:ARG:C	2:H:410:ILE:HD13	2.31	0.50
3:D:1183:ILE:N	3:D:1183:ILE:CD1	2.73	0.50
2:H:944:LEU:HD11	2:H:963:LEU:CD2	2.41	0.50
4:E:37:ASN:N	4:E:37:ASN:ND2	2.56	0.50
4:J:59:ASN:HD21	4:J:61:VAL:HG23	1.77	0.50
4:E:35:PHE:O	4:E:36:LYS:HG2	2.10	0.50
3:N:1268:PRO:HB2	3:N:1329:ALA:HB3	1.91	0.50
2:M:520:GLU:O	2:M:522:VAL:HG23	2.10	0.50
1:G:129:ILE:HD12	1:G:129:ILE:N	2.26	0.50
3:D:629:SER:OG	3:D:630:VAL:N	2.43	0.50
3:I:97:THR:HG22	3:I:554:LEU:HD21	1.93	0.50
3:I:789:LEU:O	3:I:792:ILE:CG2	2.60	0.50
2:H:431:HIS:CD2	2:H:433:THR:OG1	2.65	0.50
3:D:786:ILE:HG21	3:D:1027:GLY:C	2.31	0.50
3:N:493:ARG:CZ	3:N:1390:LEU:HB3	2.41	0.50
2:H:44:ILE:N	2:H:44:ILE:CD1	2.74	0.50
3:D:847:ASP:O	3:D:851:LEU:HG	2.11	0.50
1:K:79:ILE:HG13	1:K:80:LEU:N	2.26	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:1098:LEU:CD2	3:I:1226:ALA:HA	2.41	0.50
3:I:432:TYR:CB	3:I:450:TYR:HB2	2.41	0.50
1:A:76:VAL:O	1:A:79:ILE:HG13	2.11	0.50
2:C:572:ILE:CG1	2:C:573:ARG:N	2.74	0.50
3:N:153:LEU:CD1	3:N:158:TYR:HB2	2.41	0.50
2:H:140:ILE:C	2:H:140:ILE:HD12	2.32	0.50
2:C:54:ILE:CD1	2:C:355:VAL:HG13	2.41	0.50
3:N:970:LYS:HG2	5:Z:113:LEU:HD22	1.91	0.50
3:D:601:ARG:HH22	3:D:611:GLN:NE2	2.10	0.50
3:I:112:ILE:HD13	3:I:465:LEU:HD21	1.92	0.50
3:I:171:LEU:HD23	3:I:172:PRO:HD2	1.94	0.50
3:I:623:VAL:HG12	3:I:624:ASP:N	2.26	0.50
3:D:181:ASP:HB3	3:D:357:GLU:CD	2.31	0.50
3:I:726:ILE:HD12	3:I:726:ILE:N	2.19	0.50
3:I:1213:ARG:HB2	3:I:1214:PRO:CD	2.41	0.50
2:C:516:ARG:HD2	3:D:1068:LEU:HD22	1.92	0.50
2:C:15:LEU:N	2:C:15:LEU:HD12	2.21	0.50
5:Y:87:SER:OG	5:Y:154:ILE:HG22	2.11	0.50
3:I:400:VAL:HG22	3:I:402:PRO:HD3	1.93	0.50
1:G:54:THR:HG22	1:G:158:ILE:HB	1.92	0.50
3:N:365:ASP:O	3:N:379:ALA:HB2	2.11	0.50
2:M:198:ARG:HD2	2:M:228:ALA:O	2.11	0.50
3:I:1461:GLY:O	3:I:1464:GLU:HG3	2.11	0.50
1:K:218:LEU:HD23	1:L:222:LEU:CD1	2.39	0.50
3:I:984:THR:HG22	3:I:987:GLU:OE1	2.10	0.50
1:B:180:GLN:HB2	1:B:196:THR:OG1	2.11	0.50
2:C:217:LEU:HD12	2:C:217:LEU:H	1.75	0.50
3:I:608:SER:O	3:I:612:GLY:HA3	2.10	0.50
3:I:790:TYR:HE1	3:I:794:GLN:NE2	2.10	0.50
1:K:38:ASN:HB3	1:K:39:PRO:HD3	1.93	0.50
1:K:36:LEU:O	1:K:39:PRO:HD2	2.11	0.50
2:M:568:ALA:HB2	2:M:995:MET:HE1	1.93	0.50
2:C:265:ARG:HB3	2:C:267:TYR:CZ	2.45	0.50
3:D:862:ASP:O	3:D:864:VAL:HG23	2.10	0.50
2:C:431:HIS:HB3	2:C:434:HIS:NE2	2.27	0.50
3:I:729:HIS:CE1	3:I:731:LEU:H	2.26	0.50
2:H:1041:GLU:HB2	3:I:1223:ILE:CD1	2.41	0.50
4:J:41:GLU:O	4:J:45:ARG:HD2	2.12	0.50
4:J:54:LEU:CG	4:J:58:PRO:CG	2.85	0.50
2:M:21:ILE:HD12	2:M:21:ILE:H	1.75	0.50
2:M:22:GLN:OE1	2:M:336:VAL:CG2	2.59	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:708:TYR:HB2	2:C:825:VAL:CG1	2.42	0.50
2:M:310:LEU:O	2:M:314:THR:HG23	2.12	0.50
3:N:119:SER:H	3:N:123:LEU:HD22	1.77	0.50
2:H:176:VAL:HG23	2:H:176:VAL:O	2.11	0.50
1:F:57:TYR:HB3	1:F:141:GLU:CG	2.41	0.50
1:K:56:VAL:HG23	1:K:165:ILE:HD11	1.93	0.50
3:D:1072:ILE:HA	3:D:1075:HIS:CD2	2.46	0.50
1:L:52:ALA:CB	1:L:170:VAL:H	2.24	0.50
2:M:304:LEU:HD11	2:M:308:ARG:HH21	1.75	0.50
1:L:99:LEU:C	1:L:100:LEU:HD23	2.32	0.50
2:H:1086:ARG:NH1	2:H:1111:ILE:O	2.44	0.50
3:D:485:SER:O	3:D:489:ARG:HB3	2.10	0.50
3:I:415:VAL:CG1	3:I:419:ASP:HB2	2.41	0.50
5:Y:73:VAL:HG12	5:Y:74:ILE:H	1.77	0.50
1:F:48:ILE:HG22	1:F:173:PRO:HD2	1.93	0.50
1:L:205:VAL:HB	1:L:209:GLU:OE2	2.11	0.50
2:C:396:ASP:OD2	2:C:402:SER:HB2	2.10	0.50
2:C:637:LEU:HD23	2:C:659:PRO:CG	2.41	0.50
2:M:714:ASP:OD1	2:M:719:PRO:HG3	2.11	0.50
3:D:585:GLY:O	3:D:587:ARG:N	2.44	0.50
3:I:1167:SER:O	3:I:1171:VAL:HG23	2.12	0.50
2:C:627:ARG:O	2:C:638:ASP:HA	2.11	0.50
3:I:1066:THR:HG22	3:I:1069:GLU:OE1	2.11	0.50
2:M:864:GLY:O	2:M:865:THR:C	2.50	0.50
3:D:820:GLU:HG3	3:D:836:VAL:HG21	1.93	0.50
3:D:875:THR:HG22	3:D:879:ARG:HG3	1.94	0.50
1:K:80:LEU:HD23	1:K:81:ASN:CG	2.31	0.50
1:A:153:ALA:HB2	1:A:168:ASP:OD1	2.11	0.50
2:C:572:ILE:HG22	2:C:703:ILE:CD1	2.42	0.50
3:D:1241:PHE:C	3:D:1241:PHE:CD1	2.84	0.50
3:N:98:PRO:HG2	3:N:462:GLN:HE22	1.76	0.50
3:D:1209:LEU:HD11	4:E:16:LYS:NZ	2.26	0.50
1:B:56:VAL:O	1:B:165:ILE:CD1	2.59	0.50
3:D:1123:PHE:CD2	3:D:1184:GLN:HG3	2.47	0.50
5:Z:116:PRO:HD2	5:Z:118:LYS:HZ1	1.73	0.50
3:D:717:GLN:NE2	3:D:718:PRO:O	2.45	0.50
3:D:736:PHE:O	3:D:738:ALA:N	2.45	0.50
4:O:48:MET:HG3	4:O:49:GLN:H	1.75	0.50
5:X:45:ASN:HB3	5:X:48:TYR:HB2	1.92	0.50
2:C:722:ILE:CD1	2:C:740:GLU:O	2.60	0.50
2:M:474:VAL:HG23	2:M:478:VAL:O	2.10	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:136:ILE:N	2:C:136:ILE:HD12	2.26	0.50
3:I:1481:VAL:O	3:I:1481:VAL:HG12	2.12	0.50
2:C:575:GLN:N	2:C:667:ALA:HB1	2.27	0.50
2:C:838:LYS:C	2:C:839:LEU:HD23	2.32	0.50
2:H:368:THR:CB	2:H:369:PRO:HD3	2.42	0.50
3:N:968:ASP:O	3:N:971:LEU:HG	2.11	0.50
3:I:1258:ARG:O	3:I:1262:LEU:HD13	2.10	0.50
2:M:943:VAL:HG13	2:M:944:LEU:N	2.25	0.50
2:C:367:LEU:HB2	2:C:371:LYS:HG2	1.93	0.50
3:I:1283:ILE:HD12	3:I:1292:VAL:HG22	1.94	0.50
2:H:926:PHE:HE1	2:H:929:ARG:HE	1.59	0.50
1:A:7:LYS:NZ	1:A:27:PRO:HD2	2.26	0.50
2:M:98:LEU:N	2:M:98:LEU:CD1	2.74	0.50
3:D:1252:ILE:HD11	3:D:1258:ARG:CZ	2.41	0.50
1:G:36:LEU:HD23	1:G:36:LEU:N	2.27	0.50
3:D:108:VAL:CB	3:D:109:PRO:HD3	2.24	0.50
2:M:465:GLY:O	2:M:466:PHE:C	2.50	0.50
3:I:141:ILE:HG23	3:I:448:GLU:CD	2.32	0.50
2:M:174:LEU:HD22	2:M:193:LEU:HD21	1.94	0.50
2:M:157:ARG:HD3	2:M:314:THR:HB	1.92	0.50
2:H:726:ILE:C	2:H:728:HIS:H	2.15	0.50
3:N:162:ARG:HG3	3:N:163:TYR:HD2	1.76	0.50
2:H:332:ARG:NE	2:H:464:LEU:HD23	2.26	0.50
2:C:52:PHE:CD2	2:C:68:PHE:HB2	2.47	0.50
2:C:350:ARG:CG	2:C:353:ARG:HH21	2.23	0.50
3:D:102:ILE:CD1	3:D:586:ARG:HG3	2.41	0.50
3:D:586:ARG:HH22	3:D:1444:THR:HG21	1.76	0.50
1:F:109:VAL:HG12	1:F:129:ILE:HD12	1.94	0.50
1:F:56:VAL:HG12	1:F:140:MET:HB2	1.93	0.50
1:F:64:GLU:CA	1:F:75:VAL:HG11	2.32	0.50
1:B:127:LEU:HD23	1:B:128:HIS:N	2.27	0.50
3:D:900:ILE:HD11	3:D:902:LEU:HD22	1.94	0.50
5:Z:7:LEU:HD11	5:Z:108:ALA:CB	2.41	0.50
1:L:13:VAL:HG12	1:L:14:ARG:H	1.76	0.50
3:D:141:ILE:CD1	3:D:448:GLU:HG3	2.40	0.50
1:L:97:VAL:HG11	1:L:120:VAL:HG21	1.92	0.50
3:N:1404:ASN:CA	3:N:1408:ILE:HD13	2.39	0.50
3:D:982:PHE:CD1	5:X:117:MET:HE2	2.46	0.50
2:C:428:ARG:CZ	2:C:451:LEU:HD21	2.42	0.50
2:M:191:PHE:HZ	2:M:196:LEU:HD12	1.77	0.50
1:B:26:GLU:HB2	1:B:193:ASP:O	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:179:PHE:N	1:G:179:PHE:HD2	2.10	0.50
2:H:561:GLY:HA2	2:H:564:MET:HB2	1.93	0.50
3:N:496:LEU:O	3:N:499:VAL:HB	2.11	0.50
3:N:1392:GLY:O	3:N:1393:GLN:NE2	2.44	0.50
3:D:1496:GLU:OE2	3:D:1499:ARG:HD2	2.12	0.50
1:F:98:THR:HG23	1:F:143:ARG:HA	1.93	0.50
2:M:637:LEU:HD23	2:M:659:PRO:HG2	1.94	0.50
2:M:430:VAL:HG13	3:N:1075:HIS:ND1	2.26	0.50
2:H:550:LEU:HG	3:I:1070:TYR:HE1	1.77	0.50
3:D:786:ILE:N	3:D:786:ILE:HD12	2.26	0.50
2:H:44:ILE:HD12	2:H:44:ILE:N	2.26	0.50
3:N:804:LEU:HD11	3:N:830:ALA:O	2.12	0.50
3:N:848:GLU:HA	3:N:851:LEU:CD1	2.41	0.50
2:C:283:ILE:HG22	2:C:284:ARG:N	2.26	0.50
3:I:1229:ILE:O	3:I:1232:PRO:HD2	2.12	0.50
2:M:391:LEU:HD23	2:M:391:LEU:C	2.32	0.50
2:M:221:LEU:HD12	2:M:222:MET:H	1.76	0.50
2:H:261:ILE:CG1	2:H:262:ALA:N	2.72	0.50
3:D:166:GLN:OE1	3:D:166:GLN:C	2.50	0.50
2:M:1008:ARG:HH22	2:M:1011:GLY:H	1.60	0.50
3:N:638:LYS:N	3:N:641:GLN:HE22	1.98	0.50
1:A:85:LEU:HD12	1:A:124:ASN:CB	2.36	0.50
3:D:102:ILE:CD1	3:D:106:LYS:HB2	2.41	0.50
3:I:655:PRO:O	3:I:658:LEU:HB2	2.11	0.50
2:H:572:ILE:HD12	2:H:573:ARG:N	2.18	0.50
3:D:1238:MET:O	3:D:1239:ARG:HB2	2.12	0.50
1:A:209:GLU:O	1:A:213:GLN:HG3	2.11	0.50
1:B:100:LEU:HD23	1:B:115:LEU:CD2	2.37	0.50
5:Z:29:ILE:HD12	5:Z:58:ASN:HD21	1.74	0.50
2:M:572:ILE:HG12	2:M:573:ARG:H	1.76	0.50
2:H:472:ARG:O	2:H:531:PHE:HA	2.11	0.50
2:M:89:THR:OG1	2:M:91:GLN:NE2	2.44	0.50
2:H:1000:MET:HB3	2:H:1002:GLU:HG2	1.93	0.50
1:B:108:GLU:HG2	1:B:131:THR:CG2	2.42	0.50
2:C:937:ASP:HB3	2:C:940:GLU:HG3	1.93	0.50
2:C:953:VAL:O	2:C:955:PRO:HD3	2.12	0.50
3:D:1492:LEU:HD12	3:D:1493:LYS:NZ	2.26	0.50
5:Y:5:VAL:O	5:Y:73:VAL:HG23	2.11	0.50
3:I:1044:LEU:HG	3:I:1056:PRO:HA	1.93	0.50
2:M:66:LEU:HD22	2:M:99:GLN:O	2.12	0.50
2:C:876:VAL:N	2:C:877:PRO:CD	2.73	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:274:ARG:HG2	2:C:285:LEU:HB3	1.93	0.50
2:M:1032:PHE:CZ	2:M:1040:LEU:HD22	2.34	0.50
2:C:472:ARG:NH1	2:C:532:MET:HE2	2.26	0.50
2:C:477:GLY:HA2	2:C:508:ILE:HD12	1.92	0.50
1:F:177:VAL:CG1	1:F:178:ALA:N	2.75	0.50
3:I:637:LEU:CD2	3:I:642:CYS:HA	2.35	0.50
2:M:144:PRO:HB2	2:M:265:ARG:HD3	1.94	0.50
3:I:133:ILE:HG22	3:I:454:ALA:HB1	1.93	0.50
3:D:644:LEU:HD12	3:D:645:PRO:CD	2.39	0.50
4:O:68:LEU:HA	4:O:73:LEU:CD2	2.41	0.50
3:D:1109:GLU:CG	3:D:1201:CYS:HA	2.42	0.50
2:M:752:GLY:O	2:M:791:ARG:NH1	2.45	0.50
5:Y:144:LYS:HE2	5:Y:147:ARG:HD2	1.93	0.50
2:H:471:TYR:H	2:H:483:VAL:CG1	2.23	0.50
3:I:1071:PHE:CE1	3:I:1075:HIS:HE1	2.29	0.50
3:D:673:ALA:HA	3:D:676:MET:CG	2.38	0.50
3:I:675:ARG:HA	3:I:678:GLU:HB2	1.92	0.50
2:M:129:ILE:HG22	2:M:130:ASN:N	2.26	0.50
3:D:792:ILE:HG12	3:D:878:GLY:HA2	1.94	0.50
2:H:100:LEU:O	2:H:107:LEU:HD12	2.11	0.50
1:A:50:GLY:H	1:A:171:PHE:HB3	1.76	0.50
2:M:200:LEU:HD13	2:M:300:ASP:OD2	2.12	0.50
3:D:31:THR:HA	3:D:44:LEU:HD13	1.93	0.50
2:C:630:ARG:NH2	2:C:707:ARG:N	2.56	0.50
3:I:1425:THR:O	3:I:1429:LEU:HD13	2.11	0.50
3:N:1173:LEU:C	3:N:1173:LEU:HD12	2.33	0.50
3:D:1434:TRP:CE3	3:D:1457:ASP:HB2	2.46	0.50
2:M:588:VAL:HG23	2:M:596:TYR:OH	2.12	0.50
3:D:470:LEU:HB2	3:D:503:LEU:HD21	1.93	0.50
2:M:471:TYR:N	2:M:483:VAL:HG13	2.27	0.50
1:B:153:ALA:HB2	1:B:168:ASP:N	2.27	0.50
3:I:1153:VAL:HG12	3:I:1155:VAL:HG22	1.94	0.50
2:C:421:GLU:HG3	2:C:422:ARG:HH11	1.76	0.50
2:H:1099:VAL:HA	3:I:9:ARG:O	2.12	0.50
2:C:861:LEU:HA	2:C:974:LEU:HD12	1.94	0.50
2:H:68:PHE:HZ	2:H:71:TYR:HD2	1.58	0.50
2:M:1046:ALA:HB3	3:N:1476:THR:OG1	2.12	0.50
3:I:11:ALA:HA	3:I:1451:ALA:O	2.12	0.50
1:F:198:ARG:C	1:F:199:ILE:HD13	2.32	0.50
2:M:204:GLN:HB3	2:M:222:MET:CE	2.42	0.50
2:H:332:ARG:HE	2:H:464:LEU:HD23	1.77	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1095:LEU:HG	2:C:1095:LEU:O	2.12	0.50
3:I:171:LEU:HD12	3:I:392:SER:HA	1.93	0.50
1:F:109:VAL:HG21	1:F:130:ALA:HB3	1.93	0.50
2:C:406:HIS:ND1	2:C:409:ARG:HD2	2.27	0.50
3:I:1196:THR:O	3:I:1197:ARG:C	2.50	0.50
2:H:551:GLU:HB3	2:H:906:PHE:HD2	1.76	0.50
1:F:221:HIS:HA	1:F:224:TYR:CD2	2.46	0.50
2:M:892:LEU:CD1	2:M:989:VAL:HG23	2.40	0.50
3:I:907:GLU:O	3:I:908:LYS:C	2.50	0.50
3:D:1434:TRP:CZ3	3:D:1457:ASP:HB2	2.47	0.50
3:N:1323:GLN:O	3:N:1325:LEU:HD13	2.12	0.50
2:M:384:GLU:HA	2:M:388:ARG:HD2	1.94	0.50
3:D:630:VAL:O	3:D:725:SER:HB2	2.11	0.50
2:M:2:GLU:H	2:M:2:GLU:CD	2.15	0.50
3:D:552:ASN:O	3:D:556:LYS:HG3	2.12	0.50
3:D:1008:PHE:O	3:D:1012:GLU:HB2	2.11	0.50
1:A:229:GLN:NE2	1:B:12:THR:HG22	2.27	0.50
3:I:860:LEU:HD23	3:I:860:LEU:H	1.76	0.50
2:M:352:ALA:HA	2:M:355:VAL:HG12	1.93	0.50
3:D:828:LYS:HG2	3:D:863:VAL:CG2	2.39	0.50
3:D:394:LEU:HD23	3:D:394:LEU:N	2.27	0.50
3:I:711:LEU:HD21	3:I:768:ASN:HB3	1.94	0.50
3:D:1330:ILE:HD13	3:D:1347:TYR:HE1	1.77	0.50
2:H:173:ASP:O	2:H:174:LEU:HD23	2.12	0.50
2:H:242:LEU:HD11	2:H:254:VAL:HG11	1.94	0.50
2:H:168:ARG:NH1	2:H:262:ALA:HB3	2.27	0.50
3:N:139:GLY:H	3:N:147:VAL:HG23	1.77	0.50
3:D:206:ARG:C	3:D:207:PHE:HD1	2.15	0.50
2:C:1095:LEU:HD23	2:C:1095:LEU:N	2.27	0.50
3:D:119:SER:HB2	3:D:123:LEU:H	1.75	0.50
2:H:211:LEU:HD11	2:H:307:LEU:HD23	1.93	0.50
2:H:224:GLU:OE1	2:H:226:VAL:HG12	2.11	0.50
3:D:710:ARG:CG	3:D:711:LEU:N	2.73	0.50
3:I:838:ARG:HA	3:I:864:VAL:HA	1.93	0.50
1:F:109:VAL:HB	1:F:130:ALA:O	2.12	0.50
1:A:206:THR:HG23	1:A:208:LEU:H	1.77	0.50
1:G:97:VAL:HG11	1:G:120:VAL:HG11	1.94	0.50
3:D:138:LYS:O	3:D:138:LYS:HD2	2.12	0.50
3:N:1346:ARG:NH1	3:N:1346:ARG:HG3	2.27	0.50
3:I:1289:LYS:HD2	3:I:1304:LYS:NZ	2.27	0.50
1:K:67:THR:CG2	2:M:609:ASN:HD21	2.25	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Y:52:ARG:O	5:Y:53:ARG:C	2.50	0.50
1:L:215:VAL:HG23	1:L:216:GLU:N	2.26	0.50
2:C:1073:GLY:N	3:D:659:LYS:HD3	2.26	0.50
3:N:897:TRP:HA	3:N:900:ILE:CD1	2.41	0.50
2:C:884:GLN:HG3	2:C:885:ILE:N	2.26	0.50
3:I:1283:ILE:HG22	3:I:1284:GLU:H	1.75	0.50
2:M:395:LYS:HG2	2:M:397:GLU:HG2	1.94	0.50
2:C:1086:ARG:CB	2:C:1086:ARG:HH11	2.25	0.50
2:M:435:TYR:CE2	2:M:516:ARG:HD3	2.47	0.50
1:B:21:GLY:O	1:B:198:ARG:HA	2.11	0.50
3:N:799:LYS:HG2	3:N:800:LYS:N	2.27	0.49
2:C:162:ILE:HG22	2:C:172:ILE:HD13	1.94	0.49
1:K:112:ARG:HE	1:K:125:PRO:CB	2.11	0.49
3:I:644:LEU:C	3:I:721:VAL:HG23	2.32	0.49
2:M:408:ARG:NH2	2:M:455:LEU:HD11	2.27	0.49
1:A:52:ALA:HB2	1:A:170:VAL:HG22	1.92	0.49
2:H:165:LEU:HB3	2:H:265:ARG:NE	2.25	0.49
2:H:141:HIS:CB	2:H:418:LEU:HD23	2.42	0.49
3:D:1379:VAL:HG23	3:D:1380:GLU:N	2.26	0.49
3:D:156:GLU:HG2	3:D:159:ARG:HH21	1.76	0.49
2:H:313:LEU:CD1	2:H:314:THR:HG23	2.42	0.49
2:C:369:PRO:O	2:C:373:VAL:HG23	2.12	0.49
1:B:189:ARG:HG3	1:B:192:LEU:HD21	1.94	0.49
1:L:58:ILE:HG13	1:L:140:MET:CB	2.41	0.49
2:M:1006:HIS:CE1	2:M:1028:GLY:H	2.29	0.49
2:H:1052:MET:CG	3:I:623:VAL:HG11	2.34	0.49
2:C:333:ILE:H	2:C:465:GLY:HA3	1.76	0.49
3:D:1426:LYS:HD3	3:D:1429:LEU:CD2	2.41	0.49
2:M:670:GLN:HB2	2:M:700:TYR:HE1	1.76	0.49
3:I:496:LEU:O	3:I:499:VAL:HB	2.12	0.49
2:H:20:GLU:HA	2:H:23:VAL:HB	1.92	0.49
1:L:185:ARG:HG2	1:L:186:LEU:H	1.75	0.49
3:D:764:LEU:HB3	3:D:767:HIS:CD2	2.47	0.49
2:C:1031:ARG:HG2	2:C:1032:PHE:H	1.76	0.49
3:N:1381:VAL:HG22	3:N:1398:TRP:CZ2	2.47	0.49
2:M:607:ASP:HB3	2:M:610:ARG:HG2	1.93	0.49
3:N:1401:GLU:O	3:N:1405:GLU:HB3	2.11	0.49
3:D:421:LEU:HD12	3:D:427:VAL:HG12	1.92	0.49
3:I:639:LEU:C	3:I:639:LEU:HD22	2.32	0.49
3:I:1256:LEU:N	3:I:1257:PRO:CD	2.74	0.49
2:H:801:VAL:O	2:H:801:VAL:CG2	2.60	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:58:ILE:HB	1:G:61:VAL:HG23	1.93	0.49
1:L:44:LEU:HD13	1:L:177:VAL:HG11	1.93	0.49
2:C:22:GLN:HB3	2:C:121:MET:CE	2.21	0.49
2:M:1033:GLY:O	2:M:1037:VAL:HG23	2.11	0.49
2:M:1081:VAL:HG13	2:M:1085:PHE:HB3	1.94	0.49
3:D:832:ARG:HA	3:D:832:ARG:NE	2.27	0.49
2:M:183:SER:C	2:M:193:LEU:HD11	2.33	0.49
3:I:169:TYR:CE1	3:I:395:VAL:HG12	2.45	0.49
3:N:642:CYS:SG	3:N:716:PHE:CB	2.99	0.49
2:H:610:ARG:O	2:H:611:ILE:HD13	2.12	0.49
3:D:1192:LEU:HD21	3:D:1369:GLU:CB	2.36	0.49
1:B:87:VAL:HG23	1:B:88:ARG:N	2.26	0.49
3:D:355:VAL:HG12	3:D:356:PRO:HD2	1.94	0.49
3:N:25:GLU:HG3	3:N:92:HIS:O	2.11	0.49
3:D:162:ARG:HE	3:D:452:ILE:HG23	1.76	0.49
2:M:1050:GLN:HA	2:M:1053:LEU:HD21	1.93	0.49
2:C:1076:VAL:CG2	3:D:752:SER:HA	2.41	0.49
1:L:153:ALA:HB2	1:L:168:ASP:N	2.27	0.49
1:A:106:PRO:HG3	1:A:133:GLU:O	2.12	0.49
2:C:706:GLU:O	2:C:827:VAL:HG12	2.12	0.49
3:I:407:VAL:HG13	3:I:444:VAL:HG21	1.94	0.49
1:G:153:ALA:HB2	1:G:167:VAL:C	2.31	0.49
3:D:1035:ILE:HA	3:D:1038:LEU:HD12	1.95	0.49
3:N:1155:VAL:HG21	3:N:1183:ILE:HG12	1.93	0.49
1:A:183:ASP:HA	2:C:938:LYS:HZ3	1.77	0.49
2:H:719:PRO:HB2	2:H:820:ARG:NH1	2.26	0.49
5:Y:111:ASN:OD1	5:Y:113:LEU:HD12	2.11	0.49
3:D:210:ARG:NH1	3:D:210:ARG:HB3	2.27	0.49
3:N:122:GLU:O	3:N:126:VAL:HG23	2.12	0.49
4:E:27:ALA:HB1	4:E:60:ALA:HB1	1.93	0.49
3:D:774:SER:C	3:D:776:GLU:H	2.14	0.49
2:M:703:ILE:HD13	2:M:830:LYS:HA	1.94	0.49
3:D:145:VAL:HG22	3:D:146:PRO:HD2	1.92	0.49
2:M:584:GLU:HB2	2:M:666:LEU:H	1.77	0.49
2:M:55:GLU:HA	2:M:64:LEU:O	2.11	0.49
2:H:52:PHE:CG	2:H:68:PHE:HB2	2.47	0.49
2:C:502:PRO:HB2	2:C:509:ALA:CB	2.42	0.49
2:M:1087:VAL:HG22	2:M:1091:GLU:CD	2.32	0.49
4:J:54:LEU:CG	4:J:58:PRO:HG3	2.38	0.49
2:M:331:ARG:NH2	2:M:427:VAL:HG11	2.28	0.49
2:M:410:ILE:HD11	2:M:455:LEU:HB3	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:461:VAL:HG12	2:M:462:ASP:N	2.27	0.49
3:N:459:GLU:HA	3:N:462:GLN:HE21	1.77	0.49
3:D:925:GLU:OE2	4:E:6:ILE:HG22	2.13	0.49
2:M:264:PRO:CB	2:M:289:THR:HB	2.42	0.49
1:B:66:SER:O	1:B:75:VAL:HG23	2.12	0.49
1:K:44:LEU:HA	1:K:48:ILE:CD1	2.41	0.49
1:K:44:LEU:C	1:K:45:LEU:HD12	2.33	0.49
3:D:627:GLY:C	3:D:747:VAL:HG12	2.33	0.49
4:E:45:ARG:HH11	4:E:55:PHE:HB3	1.76	0.49
2:M:1008:ARG:HG2	2:M:1009:SER:N	2.27	0.49
3:N:640:HIS:HB3	3:N:641:GLN:OE1	2.12	0.49
3:D:461:ILE:HD13	3:D:461:ILE:N	2.26	0.49
3:I:123:LEU:CD1	3:I:152:LEU:HD11	2.42	0.49
2:C:211:LEU:HG	2:C:212:GLY:N	2.27	0.49
2:C:609:ASN:O	2:C:625:LEU:HG	2.12	0.49
3:N:1398:TRP:HZ3	3:N:1415:VAL:HB	1.77	0.49
2:M:928:LYS:HZ2	2:M:928:LYS:HA	1.76	0.49
2:C:1067:TYR:CE2	2:C:1071:ILE:HG13	2.47	0.49
3:I:1253:THR:OG1	3:I:1258:ARG:HD3	2.13	0.49
3:D:659:LYS:HE3	3:D:663:GLU:OE1	2.13	0.49
2:C:959:PRO:O	2:C:963:LEU:HG	2.12	0.49
2:H:585:GLU:HA	2:H:664:GLY:O	2.12	0.49
3:D:26:VAL:CG1	3:D:49:ILE:HD12	2.42	0.49
3:N:1274:ILE:HG22	3:N:1323:GLN:C	2.33	0.49
3:D:1406:ARG:HD2	3:D:1412:LYS:CD	2.42	0.49
1:A:178:ALA:HB2	2:C:864:GLY:N	2.27	0.49
5:Y:111:ASN:OD1	5:Y:113:LEU:HB2	2.12	0.49
3:I:1492:LEU:C	3:I:1492:LEU:HD13	2.32	0.49
3:D:592:THR:HB	3:D:596:SER:HB3	1.94	0.49
3:D:1044:LEU:HG	3:D:1056:PRO:HA	1.94	0.49
2:H:31:GLN:HG3	2:H:40:GLU:CG	2.41	0.49
3:N:875:THR:HG23	3:N:876:SER:N	2.26	0.49
2:M:737:LEU:HD21	2:M:755:LEU:O	2.13	0.49
3:D:804:LEU:HD21	3:D:831:GLY:N	2.27	0.49
3:D:850:LEU:HD21	3:D:884:ARG:NH2	2.28	0.49
1:L:62:LEU:HD12	1:L:63:HIS:N	2.27	0.49
2:H:261:ILE:O	2:H:266:ARG:CZ	2.60	0.49
3:N:453:ASP:O	3:N:454:ALA:HB2	2.11	0.49
3:N:205:TYR:CD2	3:N:205:TYR:C	2.84	0.49
3:N:390:PRO:HB2	3:N:393:ILE:CD1	2.38	0.49
2:H:151:ASP:OD1	2:H:154:ARG:HB3	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:E:47:LYS:HG2	4:E:55:PHE:HE2	1.77	0.49
2:H:114:PHE:C	2:H:115:LEU:HD23	2.31	0.49
3:I:126:VAL:HG12	3:I:132:TYR:CG	2.46	0.49
2:H:498:GLN:HA	2:H:533:ASP:OD2	2.12	0.49
2:H:473:ARG:HA	2:H:531:PHE:CD1	2.47	0.49
3:I:436:GLU:HG3	3:I:445:ARG:HG3	1.93	0.49
3:I:436:GLU:O	3:I:436:GLU:HG3	2.12	0.49
3:D:403:PHE:HD2	3:D:443:VAL:HA	1.78	0.49
3:I:676:MET:C	3:I:677:LEU:HD22	2.32	0.49
4:J:27:ALA:O	4:J:30:LEU:HB2	2.13	0.49
2:M:302:VAL:HG22	2:M:303:PHE:HD1	1.78	0.49
3:I:1289:LYS:HD2	3:I:1304:LYS:HZ3	1.76	0.49
2:H:5:ARG:HA	2:H:902:ILE:O	2.11	0.49
2:C:953:VAL:HG11	2:C:962:GLN:HG2	1.93	0.49
5:X:92:GLU:OE2	5:X:99:ARG:HG2	2.11	0.49
1:L:30:ARG:NH1	1:L:30:ARG:HB3	2.28	0.49
3:N:563:PRO:HB2	3:N:566:ILE:CG1	2.42	0.49
3:I:1135:ARG:HH21	3:I:1139:ASP:HB3	1.76	0.49
3:D:1114:THR:HG21	3:D:1193:THR:O	2.12	0.49
3:I:206:ARG:HG3	3:I:207:PHE:HD1	1.77	0.49
5:X:111:ASN:OD1	5:X:113:LEU:HB2	2.12	0.49
2:M:983:ILE:HG13	2:M:987:ILE:HD11	1.95	0.49
2:C:261:ILE:HG22	2:C:262:ALA:N	2.28	0.49
1:F:44:LEU:C	1:F:45:LEU:HD12	2.32	0.49
3:I:1460:ILE:H	3:I:1460:ILE:HD13	1.78	0.49
3:I:135:LEU:HD21	3:I:147:VAL:CG2	2.42	0.49
3:N:155:ASP:HA	3:N:158:TYR:HB3	1.94	0.49
2:H:157:ARG:HG3	2:H:314:THR:HG22	1.95	0.49
1:A:73:GLU:O	1:A:78:ILE:HD11	2.11	0.49
3:I:871:LYS:HE2	3:I:871:LYS:N	2.28	0.49
1:F:58:ILE:HD12	1:F:58:ILE:N	2.27	0.49
2:M:479:VAL:HG21	2:M:503:LEU:HD11	1.95	0.49
3:I:1147:ARG:HB3	3:I:1188:VAL:CG2	2.37	0.49
1:F:215:VAL:O	1:F:218:LEU:HB3	2.12	0.49
3:N:550:ARG:CG	3:N:553:ARG:HH21	2.25	0.49
3:I:664:LYS:C	3:I:666:ILE:H	2.16	0.49
1:A:151:VAL:H	1:A:169:ALA:HB3	1.77	0.49
2:M:300:ASP:OD2	2:M:303:PHE:HB2	2.13	0.49
3:D:44:LEU:N	3:D:44:LEU:HD12	2.24	0.49
2:C:630:ARG:HG2	2:C:707:ARG:CD	2.42	0.49
2:C:707:ARG:HG2	2:C:826:TYR:CD1	2.47	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:90:LEU:HD22	1:B:119:ASP:OD2	2.13	0.49
3:I:28:LYS:HG2	3:I:41:ARG:HH21	1.78	0.49
1:L:90:LEU:HB3	1:L:119:ASP:CB	2.42	0.49
3:D:36:THR:C	3:D:38:LYS:H	2.16	0.49
5:Z:89:VAL:HG12	5:Z:90:GLU:N	2.28	0.49
3:I:505:SER:OG	3:I:1453:ALA:HA	2.13	0.49
5:Y:3:ARG:N	5:Y:71:ARG:NH1	2.60	0.49
1:L:179:PHE:HB3	1:L:197:LEU:HG	1.95	0.49
1:K:42:ARG:HD3	1:L:35:THR:HG23	1.92	0.49
2:C:257:VAL:HG12	2:C:263:ASP:CG	2.33	0.49
2:C:258:TYR:CE2	2:C:264:PRO:HG3	2.47	0.49
3:D:87:ARG:HA	3:D:521:PRO:HB3	1.93	0.49
3:D:109:PRO:O	3:D:111:LYS:N	2.46	0.49
2:H:1045:ALA:HB1	2:H:1048:THR:CB	2.40	0.49
3:D:1345:GLU:CD	3:D:1376:MET:SD	2.90	0.49
2:C:703:ILE:HD12	2:C:703:ILE:N	2.27	0.49
2:M:149:THR:HG22	2:M:159:ILE:HD11	1.94	0.49
3:D:1209:LEU:C	3:D:1211:MET:H	2.15	0.49
3:D:1209:LEU:HD23	3:D:1210:SER:N	2.28	0.49
2:H:466:PHE:HD1	2:H:466:PHE:H	1.61	0.49
3:N:966:GLU:O	3:N:970:LYS:HE2	2.12	0.49
2:C:1006:HIS:O	3:D:627:GLY:HA2	2.13	0.49
3:D:702:LEU:HD13	3:D:716:PHE:CD1	2.48	0.49
3:D:705:ALA:HB3	3:D:706:PRO:CD	2.35	0.49
3:N:767:HIS:NE2	4:O:6:ILE:HD12	2.27	0.49
1:F:165:ILE:H	1:F:165:ILE:CD1	2.19	0.49
2:M:508:ILE:HD12	2:M:526:PRO:HB3	1.94	0.49
2:H:508:ILE:CD1	2:H:529:VAL:HG21	2.41	0.49
3:D:881:LEU:O	3:D:885:ILE:HG12	2.12	0.49
2:H:810:ASP:HB3	2:H:813:VAL:HG12	1.95	0.49
3:D:31:THR:CG2	3:D:44:LEU:HD13	2.43	0.49
3:D:1040:GLY:O	3:D:1060:SER:HB3	2.13	0.49
2:M:744:ARG:CG	2:M:747:ALA:HB2	2.42	0.49
3:D:1129:THR:O	3:D:1131:SER:N	2.45	0.49
2:M:281:LEU:CD1	2:M:306:THR:HA	2.43	0.49
2:M:281:LEU:HD12	2:M:306:THR:HA	1.93	0.49
1:F:152:PRO:HB2	1:F:155:LYS:HB2	1.95	0.49
3:I:781:PRO:HB2	3:I:786:ILE:HD11	1.94	0.49
3:I:613:ARG:NH1	3:I:616:GLN:HG2	2.28	0.49
2:C:861:LEU:CD1	2:C:862:PRO:HD2	2.42	0.49
3:N:800:LYS:HD3	3:N:830:ALA:HB3	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:251:ASP:O	2:C:253:ALA:N	2.42	0.49
2:C:260:LEU:HB2	2:C:291:ALA:HB1	1.93	0.49
2:C:1090:LYS:HA	2:C:1093:GLN:HG3	1.94	0.49
3:D:522:PRO:O	3:D:524:LEU:N	2.45	0.49
3:N:1146:GLY:HA2	3:N:1207:TYR:HB2	1.95	0.49
3:N:1211:MET:SD	3:N:1213:ARG:HG2	2.53	0.49
3:N:710:ARG:C	3:N:712:GLY:H	2.16	0.49
2:M:412:ALA:HB1	2:M:419:THR:HG21	1.94	0.49
1:B:52:ALA:HB1	1:B:170:VAL:H	1.76	0.49
3:I:355:VAL:CG2	3:I:356:PRO:HD2	2.43	0.49
2:C:810:ASP:HB3	2:C:813:VAL:HG12	1.93	0.49
3:D:140:ALA:HB1	3:D:432:TYR:CZ	2.48	0.49
1:L:123:MET:CE	1:L:123:MET:H	2.26	0.49
2:C:997:LEU:N	2:C:997:LEU:CD2	2.74	0.49
3:N:1346:ARG:HH12	3:N:1350:GLU:HB2	1.78	0.49
2:H:861:LEU:HG	2:H:862:PRO:HD2	1.94	0.49
1:L:218:LEU:O	1:L:222:LEU:HG	2.11	0.49
3:I:1336:LEU:O	3:I:1340:GLY:HA2	2.12	0.49
3:N:1149:LEU:HD11	3:N:1160:LEU:O	2.13	0.49
4:J:83:ASP:C	4:J:85:LEU:H	2.16	0.49
2:M:953:VAL:HG11	2:M:962:GLN:CB	2.43	0.49
3:N:31:THR:HB	3:N:45:PHE:HE2	1.78	0.49
3:I:211:VAL:HG13	3:I:387:LEU:HD23	1.93	0.49
2:C:627:ARG:H	2:C:627:ARG:HD3	1.77	0.49
2:M:340:MET:C	2:M:340:MET:SD	2.91	0.49
2:C:585:GLU:HA	2:C:664:GLY:O	2.13	0.49
2:H:411:SER:OG	2:H:413:LEU:HG	2.13	0.49
4:J:74:VAL:HG12	4:J:75:PHE:N	2.28	0.49
3:D:957:PRO:HG2	3:D:1007:VAL:HG13	1.94	0.49
2:C:983:ILE:HG23	3:D:944:THR:HA	1.95	0.49
3:D:911:LEU:O	3:D:915:VAL:HG23	2.12	0.49
2:H:55:GLU:HA	2:H:64:LEU:O	2.13	0.49
2:C:165:LEU:HB3	2:C:265:ARG:CZ	2.42	0.49
2:M:1085:PHE:CE2	3:N:1468:LEU:HD12	2.48	0.49
3:D:836:VAL:HG13	3:D:837:GLY:N	2.27	0.49
1:G:38:ASN:HB3	1:G:39:PRO:HD3	1.93	0.49
2:H:877:PRO:O	2:H:879:ARG:N	2.45	0.49
2:H:889:HIS:CE1	3:I:951:ILE:H	2.26	0.49
3:D:11:ALA:HA	3:D:1451:ALA:O	2.12	0.49
3:I:162:ARG:HD3	3:I:162:ARG:C	2.33	0.49
2:H:251:ASP:O	2:H:253:ALA:N	2.45	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:43:ILE:HG23	1:B:32:PHE:CZ	2.47	0.49
1:B:83:LYS:HZ2	1:B:167:VAL:CG1	2.26	0.49
2:C:44:ILE:HD12	2:C:44:ILE:N	2.28	0.49
2:C:98:LEU:N	2:C:98:LEU:HD13	2.28	0.49
3:N:782:SER:O	3:N:783:ARG:C	2.50	0.49
5:X:45:ASN:HA	5:X:45:ASN:HD22	1.38	0.49
2:H:92:ALA:H	2:H:117:HIS:HB3	1.77	0.49
1:A:205:VAL:HB	1:A:209:GLU:HB2	1.94	0.49
3:I:490:ALA:O	3:I:493:ARG:HG3	2.12	0.49
3:I:1148:VAL:C	3:I:1188:VAL:HG23	2.32	0.49
5:Y:83:ILE:HG12	5:Y:154:ILE:HG12	1.95	0.49
3:N:554:LEU:HD22	3:N:574:LEU:HD22	1.95	0.49
1:A:24:VAL:HG22	1:A:196:THR:CG2	2.43	0.49
2:H:1046:ALA:HB1	3:I:1471:LEU:CG	2.42	0.49
1:F:12:THR:HG22	1:G:229:GLN:CG	2.42	0.49
2:M:1067:TYR:OH	3:N:674:ARG:NH1	2.46	0.49
3:D:1401:GLU:OE1	3:D:1415:VAL:HG22	2.13	0.49
3:I:551:ASN:O	3:I:554:LEU:HB3	2.13	0.49
3:I:872:ARG:HH11	3:I:872:ARG:CB	2.26	0.49
2:C:1078:GLU:H	2:C:1078:GLU:CD	2.16	0.49
3:D:916:TYR:CZ	3:D:920:LEU:HD12	2.48	0.49
2:C:496:ILE:N	2:C:496:ILE:HD12	2.27	0.49
3:I:606:ILE:O	3:I:606:ILE:HG12	2.13	0.49
3:I:1044:LEU:HD13	3:I:1053:PHE:O	2.13	0.49
2:C:121:MET:HG2	2:C:125:GLY:HA2	1.95	0.49
2:C:197:LEU:HA	2:C:200:LEU:CD1	2.43	0.49
3:D:525:ARG:HD2	3:D:540:LEU:HB2	1.94	0.49
2:H:876:VAL:HG11	2:H:885:ILE:HD11	1.95	0.49
3:N:710:ARG:NH2	3:N:1210:SER:HB3	2.19	0.49
3:D:1348:LEU:N	3:D:1348:LEU:CD1	2.75	0.49
2:H:232:GLU:HG3	2:H:235:LEU:HD12	1.94	0.49
3:N:705:ALA:HB3	3:N:706:PRO:CD	2.30	0.49
3:D:157:GLU:HA	3:D:160:GLU:HB3	1.93	0.49
3:D:166:GLN:HG2	3:D:396:VAL:HB	1.94	0.49
2:H:272:ALA:HA	2:H:464:LEU:HD21	1.93	0.49
2:H:626:ARG:HB3	2:H:629:TYR:CD1	2.47	0.49
2:H:636:ALA:CB	2:H:703:ILE:HD13	2.43	0.49
2:M:575:GLN:H	2:M:667:ALA:HB1	1.77	0.49
2:M:503:LEU:HD21	2:M:507:ARG:N	2.28	0.49
3:I:1379:VAL:HG21	3:I:1417:TRP:HB2	1.95	0.49
2:M:122:THR:CG2	2:M:123:GLU:H	2.19	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:604:ALA:HB3	2:C:612:VAL:O	2.12	0.49
5:Y:6:LYS:CD	5:Y:6:LYS:N	2.74	0.49
5:X:139:SER:HB2	5:X:146:ARG:HG2	1.95	0.49
2:M:1075:ASP:HB2	4:O:31:LEU:HD11	1.94	0.49
5:Y:125:MET:HA	5:Y:140:LEU:CD1	2.43	0.49
3:N:93:ILE:CD1	3:N:548:ILE:HD11	2.43	0.49
3:D:790:TYR:CE1	3:D:1022:VAL:HG13	2.48	0.49
3:N:956:ILE:HD12	3:N:1039:CYS:O	2.13	0.49
3:I:374:GLU:O	3:I:375:GLU:HG2	2.13	0.49
3:N:409:VAL:CG2	3:N:421:LEU:HA	2.43	0.49
2:M:66:LEU:CD1	2:M:98:LEU:HB2	2.41	0.49
2:C:874:LEU:CD1	3:D:783:ARG:HB2	2.34	0.49
2:C:300:ASP:OD2	2:C:303:PHE:HB2	2.12	0.49
3:I:107:ASP:O	3:I:108:VAL:C	2.50	0.49
3:I:161:LEU:HD21	3:I:397:LYS:HZ2	1.77	0.49
3:D:1084:THR:HG22	3:D:1087:ARG:NH1	2.27	0.49
3:N:98:PRO:O	3:N:458:ALA:HB3	2.13	0.49
1:B:56:VAL:HG23	1:B:167:VAL:CG2	2.38	0.49
2:M:683:ASN:H	2:M:683:ASN:ND2	1.93	0.49
3:D:634:GLY:O	3:D:637:LEU:HB3	2.13	0.49
3:N:639:LEU:HD21	3:N:766:ALA:HB2	1.95	0.49
1:F:101:LEU:CD2	1:F:102:LYS:H	2.21	0.49
1:A:212:ASN:H	1:A:212:ASN:ND2	1.96	0.49
1:L:80:LEU:CD2	3:N:844:ALA:HA	2.42	0.49
1:A:58:ILE:CD1	1:A:140:MET:HB3	2.42	0.49
3:D:1108:ARG:O	3:D:1109:GLU:HB3	2.13	0.49
3:N:464:LEU:C	3:N:464:LEU:HD22	2.34	0.49
3:N:1366:LYS:O	3:N:1369:GLU:HB2	2.13	0.49
3:N:168:THR:HG23	3:N:394:LEU:CD2	2.38	0.49
3:D:982:PHE:HD1	5:X:117:MET:HE2	1.78	0.49
2:C:605:LYS:H	2:C:612:VAL:HB	1.78	0.49
1:K:152:PRO:HD2	1:K:155:LYS:HE3	1.93	0.49
3:N:1379:VAL:HG22	3:N:1398:TRP:HE1	1.75	0.49
3:N:1388:ARG:HA	3:N:1388:ARG:NE	2.28	0.49
4:O:70:THR:HG21	4:O:72:ARG:NE	2.27	0.49
2:M:928:LYS:HA	2:M:928:LYS:HZ3	1.75	0.49
3:N:399:ARG:HD2	3:N:401:TYR:OH	2.12	0.49
2:C:559:LEU:HD23	2:C:560:MET:N	2.28	0.49
1:B:61:VAL:CG1	1:B:62:LEU:N	2.76	0.49
1:F:194:LYS:HG2	1:F:194:LYS:O	2.13	0.49
3:D:592:THR:HB	3:D:596:SER:OG	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:216:GLU:OE2	1:A:219:ARG:HD2	2.13	0.49
4:O:10:PHE:HE1	4:O:16:LYS:HG3	1.78	0.49
2:H:723:THR:HG23	2:H:725:ASP:HB3	1.94	0.49
3:D:971:LEU:HD22	3:D:996:TRP:CZ2	2.48	0.48
3:N:1459:LEU:HD23	3:N:1470:ARG:HE	1.78	0.48
3:D:826:PRO:HD2	3:D:829:VAL:HG22	1.95	0.48
4:J:45:ARG:HD3	4:J:55:PHE:CD1	2.47	0.48
3:N:160:GLU:OE2	3:N:161:LEU:HG	2.12	0.48
1:K:45:LEU:HD11	1:K:177:VAL:CG2	2.42	0.48
4:J:64:ALA:O	4:J:68:LEU:HD13	2.13	0.48
1:B:186:LEU:CG	1:B:186:LEU:O	2.61	0.48
3:N:760:ARG:HH12	4:O:59:ASN:HD21	1.61	0.48
3:N:766:ALA:O	3:N:924:MET:HE1	2.13	0.48
3:I:650:LEU:HD12	3:I:691:LEU:HD22	1.95	0.48
1:F:101:LEU:HD11	1:F:113:ASP:CB	2.43	0.48
2:H:605:LYS:HB2	2:H:612:VAL:HG23	1.94	0.48
2:H:580:MET:HE1	2:H:665:PHE:HB3	1.95	0.48
2:H:688:ILE:HB	2:H:848:VAL:O	2.13	0.48
2:M:473:ARG:HG3	2:M:474:VAL:N	2.28	0.48
2:C:710:ILE:CD1	2:C:758:ARG:NH1	2.73	0.48
2:H:498:GLN:HE21	2:H:499:ALA:H	1.61	0.48
3:D:140:ALA:HB1	3:D:432:TYR:CE1	2.48	0.48
2:M:348:LEU:HD12	2:M:378:LEU:CD1	2.43	0.48
1:A:94:LEU:HD11	1:A:119:ASP:CB	2.40	0.48
1:L:54:THR:HG21	1:L:158:ILE:HG13	1.96	0.48
2:C:630:ARG:HE	2:C:705:ILE:HB	1.78	0.48
1:L:99:LEU:CD2	1:L:114:PHE:HB3	2.43	0.48
3:D:553:ARG:CD	3:D:557:LEU:HD11	2.41	0.48
3:I:756:GLN:O	3:I:760:ARG:HG2	2.13	0.48
2:H:591:SER:O	2:H:592:LEU:HB3	2.12	0.48
1:L:206:THR:HG23	1:L:208:LEU:H	1.78	0.48
2:M:274:ARG:HD3	2:M:285:LEU:HB2	1.95	0.48
3:D:153:LEU:HD13	3:D:154:THR:O	2.13	0.48
3:I:50:PHE:CD2	3:I:522:PRO:HD3	2.48	0.48
2:C:270:GLY:C	2:C:274:ARG:HB2	2.33	0.48
2:C:274:ARG:HG2	2:C:285:LEU:CB	2.42	0.48
5:X:7:LEU:HD13	5:X:15:LEU:HD12	1.94	0.48
1:F:41:ARG:HG3	1:F:41:ARG:HH11	1.78	0.48
3:N:832:ARG:NH1	3:N:832:ARG:HG3	2.28	0.48
3:N:704:ARG:HB2	3:N:736:PHE:HB3	1.94	0.48
3:I:179:VAL:CG2	3:I:189:GLN:HE22	2.24	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:126:VAL:O	3:D:130:SER:HB3	2.13	0.48
3:D:700:VAL:HG13	3:D:718:PRO:HG2	1.95	0.48
2:H:626:ARG:HB2	2:H:639:GLN:HE22	1.77	0.48
2:C:722:ILE:HD13	2:C:740:GLU:O	2.13	0.48
2:C:710:ILE:HD11	2:C:758:ARG:HD2	1.95	0.48
2:C:1042:ALA:HB2	3:D:1223:ILE:CG2	2.43	0.48
3:D:1397:LYS:NZ	3:D:1432:LYS:HD2	2.28	0.48
3:N:1369:GLU:O	3:N:1372:VAL:CG1	2.59	0.48
2:M:129:ILE:HG22	2:M:130:ASN:OD1	2.13	0.48
5:Z:44:GLU:O	5:Z:45:ASN:C	2.51	0.48
2:H:804:VAL:HG12	2:H:805:ARG:H	1.78	0.48
1:B:62:LEU:HD13	1:B:62:LEU:H	1.77	0.48
2:H:512:ARG:HH21	2:H:523:ILE:HD12	1.77	0.48
5:Y:99:ARG:HH11	5:Y:99:ARG:HG3	1.77	0.48
2:C:600:ASP:OD2	2:C:600:ASP:N	2.44	0.48
1:A:195:LEU:HD11	1:A:197:LEU:HD11	1.93	0.48
3:I:1042:ARG:HH11	3:I:1061:PHE:HE1	1.59	0.48
2:H:53:PRO:CG	2:H:67:ASP:OD1	2.57	0.48
3:N:800:LYS:NZ	3:N:803:GLY:HA2	2.27	0.48
3:N:179:VAL:CG1	3:N:180:LYS:N	2.76	0.48
3:D:799:LYS:NZ	3:D:826:PRO:HD3	2.27	0.48
3:N:1148:VAL:HG23	3:N:1163:GLY:HA2	1.95	0.48
1:F:33:GLY:O	1:F:195:LEU:HD22	2.13	0.48
2:H:988:VAL:HG12	3:I:948:THR:CB	2.43	0.48
3:I:948:THR:C	3:I:949:ILE:HD12	2.33	0.48
4:J:47:LYS:O	4:J:54:LEU:HD13	2.13	0.48
2:M:1042:ALA:HA	3:N:1220:ALA:CB	2.43	0.48
2:M:265:ARG:HB3	2:M:267:TYR:CE2	2.48	0.48
2:M:271:GLU:O	2:M:272:ALA:C	2.51	0.48
2:H:706:GLU:O	2:H:827:VAL:HG12	2.13	0.48
3:N:160:GLU:O	3:N:162:ARG:N	2.46	0.48
4:O:53:GLY:C	4:O:55:PHE:H	2.16	0.48
2:M:502:PRO:HB2	2:M:509:ALA:CB	2.43	0.48
2:H:679:PHE:C	2:H:681:GLY:H	2.16	0.48
1:A:45:LEU:CG	1:A:174:VAL:HB	2.43	0.48
2:C:905:ILE:N	2:C:905:ILE:HD12	2.26	0.48
3:I:600:LEU:CD1	3:I:600:LEU:H	2.16	0.48
2:H:905:ILE:HD12	2:H:905:ILE:H	1.79	0.48
3:I:1068:LEU:O	3:I:1072:ILE:HG12	2.13	0.48
1:L:112:ARG:HD2	1:L:125:PRO:CB	2.44	0.48
3:I:899:LEU:HD12	3:I:914:LEU:HD23	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:X:83:ILE:O	5:X:130:LEU:HD12	2.13	0.48
3:I:1221:VAL:O	3:I:1222:GLY:C	2.52	0.48
3:D:1156:LEU:HD11	3:D:1176:LYS:HE3	1.94	0.48
3:N:954:ALA:CB	3:N:1062:ARG:HG3	2.43	0.48
3:D:639:LEU:HD13	3:D:766:ALA:HB2	1.96	0.48
3:I:1096:ARG:NH1	3:I:1096:ARG:HB3	2.28	0.48
3:N:93:ILE:HD13	3:N:548:ILE:HD11	1.95	0.48
2:C:35:PRO:HB2	2:C:37:GLU:HG2	1.95	0.48
1:F:170:VAL:O	1:F:170:VAL:HG23	2.11	0.48
2:H:1097:LEU:HD11	3:I:10:ILE:HD13	1.95	0.48
3:I:538:SER:OG	3:I:540:LEU:CD1	2.48	0.48
1:F:36:LEU:O	1:F:39:PRO:HD2	2.13	0.48
2:H:1042:ALA:HB2	3:I:1223:ILE:CG2	2.43	0.48
3:I:704:ARG:HH11	3:I:738:ALA:HB2	1.77	0.48
3:D:1481:VAL:HG13	4:E:18:ARG:NH2	2.22	0.48
2:H:252:LYS:NZ	2:H:255:ALA:HB3	2.27	0.48
1:K:206:THR:OG1	1:K:207:PRO:HD2	2.14	0.48
2:H:148:PHE:CE2	2:H:309:TYR:HD1	2.31	0.48
2:H:204:GLN:NE2	2:H:224:GLU:O	2.46	0.48
3:N:578:VAL:O	3:N:582:LEU:HG	2.12	0.48
2:C:1056:LYS:HG2	3:D:624:ASP:OD2	2.13	0.48
1:L:70:GLY:HA2	1:L:133:GLU:CG	2.43	0.48
3:N:467:GLU:O	3:N:468:LEU:C	2.51	0.48
1:F:101:LEU:H	1:F:140:MET:CE	2.25	0.48
2:M:1013:TYR:CZ	2:M:1060:ILE:CD1	2.96	0.48
1:B:150:TYR:CD1	1:B:169:ALA:O	2.66	0.48
1:G:86:VAL:HG12	1:G:124:ASN:HB2	1.95	0.48
3:I:1118:ILE:CD1	3:I:1190:SER:HB3	2.43	0.48
3:I:1109:GLU:OE2	3:I:1217:ILE:HD12	2.13	0.48
1:L:76:VAL:HB	3:N:872:ARG:NH2	2.25	0.48
5:Y:16:MET:SD	5:Y:69:LEU:CD1	3.01	0.48
3:N:1224:VAL:CG1	3:N:1225:ALA:N	2.77	0.48
3:N:1229:ILE:C	3:N:1232:PRO:HD2	2.34	0.48
2:C:630:ARG:NE	2:C:705:ILE:HB	2.27	0.48
2:M:887:GLU:OE2	2:M:992:MET:HA	2.13	0.48
2:C:343:GLN:HE21	2:C:346:VAL:HG21	1.79	0.48
3:I:28:LYS:HG3	3:I:30:GLU:HG2	1.94	0.48
3:D:639:LEU:C	3:D:639:LEU:HD12	2.33	0.48
1:F:189:ARG:HB3	1:F:192:LEU:HD21	1.95	0.48
3:I:758:GLU:HA	4:J:20:THR:HG21	1.96	0.48
2:M:512:ARG:HD3	2:M:523:ILE:HG13	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:208:PRO:HB3	3:I:387:LEU:HD22	1.94	0.48
3:D:184:GLU:HA	3:D:184:GLU:OE1	2.13	0.48
2:C:307:LEU:HG	2:C:311:PHE:CE2	2.47	0.48
2:M:816:LYS:O	2:M:819:VAL:HB	2.13	0.48
3:N:1026:SER:C	3:N:1028:ALA:H	2.17	0.48
2:M:876:VAL:N	2:M:877:PRO:CD	2.71	0.48
2:M:877:PRO:HG2	2:M:878:SER:H	1.77	0.48
2:C:172:ILE:HG23	2:C:186:VAL:CG1	2.43	0.48
3:D:521:PRO:HB2	3:D:524:LEU:CD1	2.43	0.48
3:D:1252:ILE:CG1	3:D:1253:THR:N	2.66	0.48
2:H:691:SER:HB2	2:H:858:MET:SD	2.53	0.48
4:E:6:ILE:HD12	4:E:9:LEU:HD12	1.96	0.48
3:N:141:ILE:HG13	3:N:448:GLU:CD	2.34	0.48
1:B:43:ILE:HD13	1:B:43:ILE:N	2.28	0.48
3:D:160:GLU:CG	3:D:161:LEU:HD22	2.43	0.48
2:C:98:LEU:N	2:C:98:LEU:CD1	2.76	0.48
3:D:713:ILE:HD12	3:D:713:ILE:N	2.28	0.48
3:D:642:CYS:HB3	3:D:716:PHE:CB	2.43	0.48
5:X:45:ASN:CB	5:X:48:TYR:HB2	2.43	0.48
1:K:156:HIS:CD2	1:K:157:GLY:N	2.82	0.48
2:H:905:ILE:H	2:H:905:ILE:CD1	2.25	0.48
1:L:125:PRO:O	1:L:127:LEU:N	2.40	0.48
2:H:107:LEU:HD21	2:H:109:LYS:HG3	1.95	0.48
3:N:1388:ARG:HA	3:N:1388:ARG:HE	1.78	0.48
5:Z:16:MET:O	5:Z:20:GLU:HG3	2.13	0.48
2:C:630:ARG:CD	2:C:705:ILE:HB	2.44	0.48
4:O:30:LEU:O	4:O:35:PHE:HA	2.13	0.48
3:N:1429:LEU:HA	3:N:1441:GLN:HE21	1.78	0.48
2:H:450:GLY:HA2	3:I:1078:ARG:NH1	2.24	0.48
3:I:1340:GLY:O	3:I:1344:VAL:HG23	2.14	0.48
2:H:425:PHE:CG	3:I:1239:ARG:NH2	2.82	0.48
5:Z:150:ARG:NH1	5:Z:152:VAL:HG22	2.28	0.48
3:I:699:VAL:HG21	3:I:760:ARG:HB3	1.96	0.48
3:I:52:PRO:C	3:I:86:ARG:NE	2.67	0.48
2:H:512:ARG:HH21	2:H:523:ILE:CD1	2.25	0.48
3:I:1329:ALA:C	3:I:1330:ILE:HD12	2.34	0.48
3:D:927:THR:O	3:D:930:LEU:HB3	2.14	0.48
2:H:511:GLU:O	2:H:526:PRO:HD3	2.14	0.48
2:H:949:LYS:HD2	3:I:796:ARG:HH21	1.79	0.48
1:K:43:ILE:HG22	1:K:47:SER:HB2	1.96	0.48
2:M:442:GLU:HG3	2:M:442:GLU:O	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:829:VAL:HG12	3:N:830:ALA:N	2.28	0.48
1:B:65:PHE:CD1	3:D:813:LEU:HD22	2.49	0.48
2:C:483:VAL:HG12	2:C:484:VAL:N	2.29	0.48
2:M:1087:VAL:CG2	3:N:524:LEU:HD11	2.43	0.48
3:N:1147:ARG:HB2	3:N:1166:LEU:HD21	1.96	0.48
2:M:139:GLN:OE1	2:M:334:ARG:HD2	2.13	0.48
3:D:1323:GLN:O	3:D:1325:LEU:CD1	2.62	0.48
1:A:52:ALA:O	1:A:144:VAL:HG13	2.13	0.48
3:N:133:ILE:HG12	3:N:456:MET:HB3	1.94	0.48
1:B:172:SER:C	1:B:174:VAL:H	2.17	0.48
1:B:44:LEU:HD23	1:B:177:VAL:HG11	1.93	0.48
2:C:13:ILE:HD12	2:C:14:PRO:HD2	1.94	0.48
3:I:849:ALA:O	3:I:850:LEU:C	2.51	0.48
2:H:639:GLN:O	2:H:641:PRO:HD3	2.14	0.48
2:H:565:GLN:CD	2:H:842:ARG:HG2	2.34	0.48
1:G:132:LEU:HD21	1:G:138:LEU:HB3	1.95	0.48
1:A:19:GLU:HG3	1:A:201:THR:O	2.14	0.48
3:D:1109:GLU:HG2	3:D:1201:CYS:HB2	1.94	0.48
3:I:127:LEU:HB2	3:I:132:TYR:O	2.13	0.48
2:C:516:ARG:HH22	3:D:1067:VAL:HG23	1.79	0.48
2:H:540:PHE:HE1	2:H:905:ILE:HG21	1.78	0.48
5:Y:83:ILE:CG1	5:Y:154:ILE:HG12	2.44	0.48
2:M:1066:ALA:HA	2:M:1077:PRO:HD3	1.95	0.48
2:H:1067:TYR:O	2:H:1071:ILE:HG13	2.13	0.48
1:B:14:ARG:HB2	1:B:22:GLU:HB2	1.95	0.48
3:I:1149:LEU:HD23	3:I:1164:ARG:O	2.13	0.48
2:M:929:ARG:NH1	2:M:929:ARG:HG3	2.29	0.48
2:C:496:ILE:O	2:C:515:ALA:HB1	2.13	0.48
1:G:101:LEU:HB2	1:G:114:PHE:CD2	2.48	0.48
3:I:500:ARG:HH11	3:I:500:ARG:HG3	1.78	0.48
2:H:607:ASP:C	2:H:609:ASN:H	2.17	0.48
1:F:158:ILE:O	1:F:166:PRO:HG3	2.13	0.48
3:N:861:GLN:N	3:N:861:GLN:NE2	2.62	0.48
3:N:1440:PHE:CE1	3:N:1463:LYS:HE2	2.49	0.48
3:D:838:ARG:CG	3:D:863:VAL:HB	2.43	0.48
2:H:976:ASP:OD1	2:H:978:ARG:HD3	2.13	0.48
3:I:1019:PRO:O	3:I:1020:LEU:C	2.51	0.48
3:N:137:PRO:CD	3:N:453:ASP:O	2.61	0.48
3:N:133:ILE:HG23	3:N:455:ARG:O	2.14	0.48
1:A:38:ASN:HB3	1:A:39:PRO:HD3	1.95	0.48
2:C:52:PHE:O	2:C:54:ILE:N	2.46	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:64:LEU:HD11	2:C:372:LEU:CD2	2.38	0.48
3:I:183:GLU:O	3:I:185:VAL:HG23	2.14	0.48
3:D:117:ASP:HB2	3:D:495:ARG:NH1	2.27	0.48
3:N:777:PRO:C	3:N:778:LEU:HD13	2.34	0.48
1:A:85:LEU:HD12	1:A:124:ASN:HD22	1.79	0.48
3:D:102:ILE:HD11	3:D:586:ARG:HG3	1.93	0.48
1:F:102:LYS:NZ	1:F:139:ASN:ND2	2.62	0.48
1:F:79:ILE:HA	1:F:82:LEU:HD12	1.95	0.48
3:I:847:ASP:HA	3:I:850:LEU:HD13	1.96	0.48
3:D:1363:LEU:CD2	3:D:1363:LEU:N	2.76	0.48
3:I:134:VAL:HA	3:I:152:LEU:HB3	1.95	0.48
3:I:1209:LEU:CG	3:I:1210:SER:H	2.24	0.48
2:C:15:LEU:CD1	2:C:15:LEU:H	2.20	0.48
2:C:838:LYS:NZ	3:D:742:GLY:HA3	2.27	0.48
1:F:126:ASP:O	1:F:127:LEU:C	2.48	0.48
1:B:138:LEU:HD22	1:B:138:LEU:C	2.33	0.48
1:L:99:LEU:HD22	1:L:114:PHE:HB3	1.95	0.48
1:B:26:GLU:HB2	1:B:27:PRO:HA	1.95	0.48
2:M:890:LEU:HD22	2:M:901:TYR:CE1	2.48	0.48
3:D:421:LEU:HD21	3:D:429:SER:HB2	1.96	0.48
3:N:963:TYR:HE2	3:N:1002:LYS:HD3	1.79	0.48
3:I:1345:GLU:CA	3:I:1348:LEU:HD22	2.42	0.48
3:N:1277:ILE:HD12	3:N:1277:ILE:N	2.28	0.48
2:C:102:HIS:CE1	2:C:107:LEU:HD13	2.49	0.48
1:F:50:GLY:CA	1:F:173:PRO:HG3	2.44	0.48
5:X:19:LEU:HD22	5:X:66:GLU:HG3	1.95	0.48
2:H:479:VAL:HG22	2:H:506:ASN:C	2.34	0.48
3:N:1278:ASP:HB3	3:N:1320:GLU:HA	1.95	0.48
2:H:1084:SER:O	2:H:1087:VAL:HG12	2.14	0.48
2:H:30:LEU:HB3	2:H:44:ILE:CD1	2.44	0.48
3:N:941:PHE:C	3:N:943:THR:H	2.16	0.48
3:N:179:VAL:HG22	3:N:183:GLU:OE2	2.13	0.48
3:N:1434:TRP:CD1	3:N:1434:TRP:C	2.86	0.48
3:D:843:PHE:O	3:D:866:VAL:HA	2.13	0.48
3:N:1272:ALA:HB1	3:N:1326:THR:HB	1.94	0.48
2:H:196:LEU:CD2	2:H:200:LEU:HD21	2.44	0.48
2:H:164:PRO:HB2	2:H:265:ARG:H	1.77	0.48
2:H:304:LEU:C	2:H:304:LEU:HD23	2.33	0.48
3:N:988:ARG:HH11	3:N:988:ARG:HG3	1.77	0.48
3:D:131:LYS:HG3	3:D:568:ARG:HG3	1.96	0.48
2:C:1029:GLY:HA3	3:D:626:SER:HG	1.79	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1006:HIS:CD2	3:D:628:ARG:NH2	2.82	0.48
3:D:658:LEU:HD23	3:D:661:MET:HE2	1.96	0.48
3:I:654:LYS:CB	3:I:655:PRO:HD3	2.38	0.48
2:C:643:VAL:HG12	2:C:644:VAL:N	2.28	0.48
3:N:1422:MET:HB2	3:N:1426:LYS:CG	2.44	0.48
1:A:208:LEU:HD23	1:A:212:ASN:ND2	2.28	0.48
2:C:666:LEU:HG	2:C:668:LEU:CD1	2.43	0.48
2:H:494:TYR:CD2	2:H:531:PHE:HE2	2.32	0.48
3:N:1269:LYS:HG2	3:N:1270:ALA:N	2.28	0.48
1:G:205:VAL:HG22	1:G:206:THR:O	2.14	0.48
2:H:391:LEU:HD23	2:H:391:LEU:C	2.34	0.48
2:M:44:ILE:H	2:M:44:ILE:HD12	1.78	0.48
3:D:857:ILE:HG22	3:D:858:VAL:CG1	2.42	0.48
2:M:15:LEU:CD2	2:M:586:ARG:HG3	2.43	0.48
5:Y:50:GLU:HA	5:Y:53:ARG:HD2	1.95	0.48
2:C:554:ASP:OD2	2:C:556:ASN:HB2	2.14	0.48
2:M:596:TYR:HB3	2:M:652:GLY:HA2	1.96	0.48
2:H:595:LEU:HD13	2:H:596:TYR:H	1.78	0.48
3:N:1273:VAL:O	3:N:1325:LEU:HB2	2.14	0.48
3:N:1274:ILE:HB	3:N:1322:GLY:HA2	1.96	0.48
3:N:1275:SER:HA	3:N:1303:TYR:OH	2.13	0.48
3:D:482:LYS:HE2	3:D:1388:ARG:HH21	1.78	0.48
2:C:745:ILE:HD12	2:C:745:ILE:H	1.78	0.48
3:I:1110:ALA:O	3:I:1111:ASP:HB3	2.13	0.48
2:M:88:LEU:HA	2:M:814:GLU:OE1	2.14	0.48
2:M:971:LYS:HB3	2:M:986:PRO:HB2	1.95	0.48
2:C:265:ARG:HG2	2:C:267:TYR:CG	2.48	0.48
3:I:769:LEU:HD12	3:I:924:MET:CE	2.44	0.48
2:C:1090:LYS:HD3	2:C:1093:GLN:HG3	1.94	0.48
5:X:7:LEU:HD21	5:X:108:ALA:HB3	1.95	0.48
1:L:163:ASN:ND2	1:L:163:ASN:O	2.46	0.48
3:I:1107:VAL:O	3:I:1218:GLY:HA2	2.13	0.48
3:I:431:VAL:HG12	3:I:432:TYR:H	1.78	0.48
3:N:118:LEU:HD23	3:N:123:LEU:HD23	1.95	0.48
3:D:1146:GLY:CA	3:D:1207:TYR:HB2	2.44	0.48
3:D:171:LEU:HB2	3:D:391:ALA:O	2.14	0.48
3:N:991:GLN:HA	3:N:991:GLN:NE2	2.23	0.48
3:I:179:VAL:HG13	3:I:183:GLU:HB3	1.95	0.48
2:C:72:ARG:O	2:C:73:LEU:CB	2.61	0.48
4:E:51:LEU:C	4:E:53:GLY:H	2.17	0.48
3:I:846:PRO:O	3:I:849:ALA:HB3	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:694:LEU:HD11	2:H:700:TYR:H	1.78	0.48
2:M:904:PRO:HB2	2:M:907:ASP:HB3	1.96	0.48
3:I:1189:ARG:NH1	3:I:1189:ARG:HG3	2.28	0.48
3:N:927:THR:O	3:N:930:LEU:HB3	2.14	0.48
3:I:620:GLY:O	3:I:621:LYS:CB	2.61	0.48
3:N:1192:LEU:HD21	3:N:1372:VAL:HG13	1.96	0.48
1:K:89:PHE:C	1:K:90:LEU:HD12	2.34	0.48
3:N:550:ARG:NE	3:N:573:MET:HB3	2.29	0.48
3:N:1357:ARG:C	3:N:1359:GLN:H	2.17	0.48
3:I:1348:LEU:HD23	3:I:1372:VAL:HG21	1.95	0.48
2:C:544:THR:HG22	2:C:562:SER:OG	2.13	0.48
1:G:30:ARG:NH1	1:G:30:ARG:HB3	2.26	0.48
1:F:10:VAL:CG1	1:G:229:GLN:HE21	2.26	0.48
1:K:142:VAL:HG23	1:K:142:VAL:O	2.14	0.48
2:M:958:THR:O	2:M:962:GLN:HG3	2.13	0.48
3:I:1256:LEU:O	3:I:1259:VAL:N	2.45	0.48
1:G:175:ARG:HB2	1:G:200:TRP:HB3	1.96	0.48
3:N:1283:ILE:N	3:N:1283:ILE:HD13	2.29	0.48
3:N:921:ARG:HH11	3:N:921:ARG:HG3	1.79	0.48
2:H:207:LEU:O	2:H:208:ALA:C	2.52	0.48
3:I:774:SER:C	3:I:776:GLU:H	2.16	0.48
3:I:879:ARG:HH22	3:I:904:VAL:CA	2.27	0.48
1:G:56:VAL:HG22	1:G:142:VAL:HG12	1.95	0.48
3:D:908:LYS:H	3:D:1027:GLY:HA3	1.79	0.48
1:K:176:ARG:O	1:K:200:TRP:HE3	1.96	0.48
1:L:175:ARG:HB2	1:L:200:TRP:HB2	1.96	0.48
1:L:173:PRO:O	1:L:201:THR:HA	2.14	0.48
3:N:1440:PHE:CZ	3:N:1463:LYS:HE2	2.49	0.48
3:D:800:LYS:HD3	3:D:803:GLY:HA2	1.96	0.48
1:F:42:ARG:HH21	2:H:857:ASP:HB3	1.79	0.48
2:H:869:VAL:HG22	2:H:870:ILE:N	2.28	0.48
3:I:729:HIS:HB3	3:I:732:VAL:CG2	2.44	0.48
3:I:702:LEU:O	3:I:713:ILE:HG22	2.14	0.48
1:A:153:ALA:HB3	1:A:154:GLU:OE2	2.14	0.48
1:A:54:THR:O	1:A:167:VAL:HG23	2.14	0.48
2:H:250:ARG:CA	2:H:250:ARG:NH1	2.64	0.48
2:H:705:ILE:HG22	2:H:706:GLU:H	1.78	0.48
2:H:347:GLY:HA3	2:H:378:LEU:HD12	1.96	0.48
3:N:203:ALA:HB1	3:N:393:ILE:HG22	1.96	0.48
3:D:700:VAL:O	3:D:701:LEU:HD12	2.14	0.48
3:D:711:LEU:HD21	3:D:768:ASN:HB3	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:829:VAL:HG12	3:I:830:ALA:N	2.29	0.48
2:H:582:GLY:N	2:H:584:GLU:OE2	2.46	0.48
2:H:583:LEU:O	2:H:587:VAL:HG23	2.14	0.48
1:B:100:LEU:HB2	1:B:115:LEU:HD21	1.96	0.48
1:A:184:THR:HG21	1:A:190:THR:HA	1.95	0.48
1:G:117:VAL:HB	1:G:120:VAL:HG21	1.95	0.48
3:I:134:VAL:HG22	3:I:152:LEU:HD22	1.96	0.48
2:H:486:MET:SD	2:H:491:GLU:HA	2.53	0.48
2:C:1066:ALA:O	2:C:1070:ILE:HD13	2.14	0.48
2:H:367:LEU:HB3	2:H:371:LYS:CB	2.44	0.48
3:I:204:LEU:HD21	3:I:445:ARG:CD	2.43	0.48
3:D:1277:ILE:HD13	3:D:1301:LYS:HG2	1.96	0.48
2:H:477:GLY:HA2	2:H:508:ILE:CD1	2.44	0.48
2:M:134:ARG:CZ	2:M:134:ARG:HB3	2.43	0.48
3:D:885:ILE:HG23	3:D:937:TYR:CE1	2.49	0.48
2:H:597:ALA:HA	2:H:655:LEU:HD11	1.95	0.48
2:M:630:ARG:NH2	2:M:707:ARG:H	2.11	0.48
2:H:884:GLN:HB2	2:H:992:MET:HE1	1.94	0.48
3:D:887:ALA:O	3:D:890:VAL:O	2.31	0.48
3:I:982:PHE:CZ	5:Y:119:ILE:CD1	2.97	0.48
3:I:896:ALA:C	3:I:898:GLU:H	2.17	0.48
3:D:26:VAL:HG23	3:D:26:VAL:O	2.13	0.48
1:B:194:LYS:NZ	1:B:196:THR:HG21	2.29	0.48
3:D:17:LYS:HA	3:D:20:SER:HB2	1.96	0.48
1:G:191:ASP:CG	1:G:191:ASP:O	2.53	0.48
1:F:229:GLN:O	1:G:12:THR:HA	2.14	0.48
2:M:56:GLU:OE2	2:M:356:ARG:HD3	2.14	0.48
3:I:972:LEU:HG	3:I:976:GLN:HE21	1.79	0.48
1:L:44:LEU:HD13	1:L:199:ILE:HD12	1.95	0.47
2:M:359:MET:SD	2:M:359:MET:C	2.92	0.47
2:M:373:VAL:HG12	2:M:374:ASN:N	2.28	0.47
3:N:943:THR:OG1	3:N:944:THR:N	2.46	0.47
3:I:701:LEU:HD21	3:I:763:MET:CE	2.43	0.47
3:D:1207:TYR:CE2	3:D:1213:ARG:HA	2.48	0.47
4:E:6:ILE:HG13	4:E:10:PHE:CE1	2.49	0.47
2:H:196:LEU:HD21	2:H:200:LEU:HD21	1.96	0.47
3:N:456:MET:CA	3:N:460:ALA:HB2	2.44	0.47
3:D:702:LEU:HD23	3:D:728:LEU:HD13	1.96	0.47
3:N:766:ALA:HB3	4:O:2:ALA:HA	1.96	0.47
2:H:606:VAL:HA	2:H:611:ILE:HD12	1.95	0.47
3:D:1150:ALA:O	3:D:1162:GLU:HB2	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:710:ILE:CG1	2:C:758:ARG:HH11	2.27	0.47
1:G:87:VAL:HG12	1:G:122:ILE:HG22	1.95	0.47
3:D:214:GLU:O	3:D:383:GLY:HA2	2.14	0.47
2:H:442:GLU:HG2	2:H:454:SER:CB	2.43	0.47
2:H:109:LYS:HZ3	2:H:369:PRO:HD3	1.78	0.47
2:M:1019:GLN:O	2:M:1021:LEU:HD12	2.14	0.47
2:C:455:LEU:HD11	2:C:459:ALA:CB	2.44	0.47
2:M:693:GLU:OE1	2:M:855:VAL:HG21	2.14	0.47
3:D:1031:ASN:HB3	3:D:1034:GLN:HG3	1.95	0.47
3:N:356:PRO:HD3	3:N:442:ASN:ND2	2.29	0.47
1:F:63:HIS:CE1	2:H:801:VAL:HG23	2.49	0.47
3:I:1307:LYS:N	3:I:1307:LYS:HD3	2.29	0.47
3:D:592:THR:HB	3:D:596:SER:CB	2.43	0.47
4:O:10:PHE:CE1	4:O:16:LYS:HG3	2.49	0.47
2:H:835:VAL:HG13	2:H:836:GLY:N	2.28	0.47
5:Y:89:VAL:HG11	5:Y:129:LEU:HD22	1.96	0.47
3:D:471:GLU:O	3:D:475:LYS:HG3	2.14	0.47
2:C:490:GLU:O	2:C:493:ARG:HB2	2.14	0.47
2:H:945:ARG:HH22	3:I:859:ASP:CG	2.18	0.47
3:I:795:VAL:HG12	3:I:796:ARG:H	1.80	0.47
3:I:877:PRO:HA	3:I:880:ILE:HG22	1.96	0.47
3:I:90:MET:HE2	3:I:519:VAL:C	2.33	0.47
3:N:109:PRO:O	3:N:111:LYS:N	2.47	0.47
2:C:256:TYR:CE1	2:C:293:PHE:HB2	2.48	0.47
2:C:1081:VAL:CG1	2:C:1085:PHE:HD1	2.22	0.47
3:D:536:ALA:O	3:D:537:THR:C	2.53	0.47
3:I:111:LYS:HG3	3:I:1452:ILE:CD1	2.41	0.47
1:K:123:MET:O	1:K:125:PRO:HD3	2.13	0.47
2:M:461:VAL:CG1	2:M:462:ASP:N	2.77	0.47
3:N:119:SER:CB	3:N:123:LEU:H	2.27	0.47
2:H:710:ILE:HD11	2:H:758:ARG:NH1	2.29	0.47
2:H:165:LEU:HG	2:H:166:PRO:CA	2.31	0.47
3:I:804:LEU:HD23	3:I:829:VAL:CG1	2.43	0.47
3:D:101:HIS:HA	3:D:514:LEU:HD11	1.97	0.47
2:C:91:GLN:NE2	2:C:383:ARG:HH12	2.12	0.47
2:C:384:GLU:O	2:C:388:ARG:HB2	2.14	0.47
3:I:44:LEU:HD21	3:I:545:ARG:HG3	1.95	0.47
5:Z:7:LEU:HD21	5:Z:108:ALA:HB3	1.96	0.47
1:K:156:HIS:CD2	1:K:158:ILE:HG12	2.49	0.47
2:C:498:GLN:CD	3:D:1067:VAL:HG21	2.34	0.47
3:D:162:ARG:NH2	3:D:452:ILE:HG23	2.28	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:181:VAL:HG12	1:K:193:ASP:OD2	2.14	0.47
3:I:1394:VAL:HB	3:I:1397:LYS:HD2	1.96	0.47
2:H:498:GLN:HE21	2:H:498:GLN:CA	2.27	0.47
2:M:199:VAL:HG22	2:M:234:ALA:HB3	1.96	0.47
2:M:114:PHE:C	2:M:115:LEU:HD23	2.34	0.47
3:N:95:LEU:HD23	3:N:96:ALA:H	1.78	0.47
3:N:1109:GLU:HG2	3:N:1201:CYS:HB3	1.97	0.47
2:C:584:GLU:N	2:C:584:GLU:CD	2.65	0.47
2:M:992:MET:HE2	2:M:993:PHE:O	2.15	0.47
2:C:343:GLN:O	2:C:346:VAL:HB	2.14	0.47
3:I:1277:ILE:HD13	3:I:1301:LYS:CB	2.44	0.47
1:K:106:PRO:HA	1:K:132:LEU:O	2.14	0.47
3:D:465:LEU:HD13	3:D:512:MET:HB2	1.96	0.47
2:H:595:LEU:HD13	2:H:596:TYR:N	2.29	0.47
3:N:1015:TYR:HB3	3:N:1018:ASN:HB2	1.96	0.47
3:N:496:LEU:HD12	3:N:499:VAL:HB	1.97	0.47
5:Z:14:ARG:HB3	5:Z:14:ARG:HH11	1.79	0.47
3:I:180:LYS:HZ3	3:I:180:LYS:HA	1.79	0.47
2:H:1092:LEU:HD13	2:H:1097:LEU:HD23	1.96	0.47
3:N:863:VAL:HA	3:N:875:THR:O	2.14	0.47
2:M:743:VAL:HG11	2:M:755:LEU:CD2	2.43	0.47
2:H:690:ILE:HD12	2:H:852:ILE:HG23	1.97	0.47
2:H:892:LEU:HD13	2:H:989:VAL:HG23	1.95	0.47
2:H:678:PRO:HB2	3:I:942:SER:OG	2.14	0.47
3:N:813:LEU:C	3:N:813:LEU:HD12	2.34	0.47
3:I:718:PRO:O	3:I:719:VAL:HG23	2.14	0.47
3:D:1359:GLN:NE2	3:D:1359:GLN:HA	2.29	0.47
3:N:98:PRO:HB3	3:N:513:ILE:HD13	1.96	0.47
2:H:263:ASP:CB	2:H:264:PRO:CD	2.93	0.47
2:C:73:LEU:HG	2:C:94:LEU:HD23	1.96	0.47
2:C:73:LEU:HD23	2:C:94:LEU:CB	2.44	0.47
3:D:642:CYS:SG	3:D:716:PHE:HB3	2.54	0.47
3:D:702:LEU:HD13	3:D:716:PHE:HD1	1.80	0.47
4:E:47:LYS:CG	4:E:55:PHE:HE2	2.27	0.47
3:I:870:GLY:H	3:I:871:LYS:CE	2.27	0.47
2:C:141:HIS:NE2	2:C:332:ARG:HB3	2.29	0.47
2:M:473:ARG:HD3	2:M:531:PHE:CE1	2.49	0.47
2:C:154:ARG:C	2:C:156:GLY:H	2.17	0.47
3:D:1106:VAL:HG13	3:D:1219:GLU:C	2.34	0.47
2:C:15:LEU:HD21	2:C:583:LEU:CD1	2.45	0.47
3:N:36:THR:C	3:N:38:LYS:H	2.16	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1054:THR:OG1	2:C:1055:LEU:N	2.47	0.47
1:B:212:ASN:O	1:B:215:VAL:HG22	2.15	0.47
4:O:30:LEU:HB3	4:O:35:PHE:CE1	2.49	0.47
2:H:861:LEU:HD23	2:H:861:LEU:C	2.35	0.47
2:C:1072:LYS:C	3:D:659:LYS:NZ	2.67	0.47
2:C:1073:GLY:HA3	3:D:659:LYS:HZ3	1.80	0.47
3:N:1173:LEU:HD12	3:N:1174:LEU:N	2.29	0.47
2:C:953:VAL:CG1	2:C:962:GLN:HG2	2.44	0.47
1:F:184:THR:CG2	1:F:192:LEU:H	2.27	0.47
1:L:206:THR:HG22	1:L:209:GLU:OE1	2.14	0.47
3:N:850:LEU:H	3:N:850:LEU:CD1	2.26	0.47
3:D:470:LEU:N	3:D:470:LEU:HD23	2.29	0.47
3:D:1076:GLY:HA2	5:X:53:ARG:HH22	1.80	0.47
3:I:1026:SER:C	3:I:1028:ALA:H	2.16	0.47
3:N:1333:HIS:O	3:N:1336:LEU:HB3	2.15	0.47
3:I:406:ASP:O	3:I:422:ALA:HB1	2.14	0.47
3:I:615:ARG:HH12	3:I:1439:SER:HB3	1.79	0.47
1:F:54:THR:O	1:F:167:VAL:HG23	2.14	0.47
2:M:351:LEU:CD1	2:M:374:ASN:HD21	2.27	0.47
2:C:173:ASP:O	2:C:174:LEU:HD23	2.14	0.47
3:D:804:LEU:HD12	3:D:804:LEU:H	1.78	0.47
3:D:850:LEU:O	3:D:853:VAL:N	2.48	0.47
2:C:328:LEU:C	2:C:330:ASN:H	2.17	0.47
3:N:817:GLU:O	3:N:820:GLU:HB3	2.15	0.47
2:C:572:ILE:HG12	2:C:573:ARG:N	2.29	0.47
3:D:1350:GLU:HG3	3:D:1354:LYS:HE3	1.95	0.47
2:H:250:ARG:NH2	2:H:256:TYR:OH	2.47	0.47
2:H:755:LEU:H	2:H:755:LEU:HD23	1.77	0.47
2:H:758:ARG:HB3	2:H:788:THR:O	2.14	0.47
3:N:137:PRO:CG	3:N:453:ASP:HB2	2.44	0.47
3:N:729:HIS:NE2	3:N:731:LEU:HB2	2.29	0.47
3:D:637:LEU:CD2	3:D:642:CYS:HA	2.41	0.47
4:O:9:LEU:HD22	4:O:68:LEU:CD2	2.44	0.47
3:I:112:ILE:CD1	3:I:465:LEU:HD21	2.45	0.47
1:B:51:THR:HG22	1:B:89:PHE:CE2	2.49	0.47
2:H:335:THR:O	2:H:336:VAL:C	2.52	0.47
2:M:478:VAL:HA	2:M:506:ASN:O	2.14	0.47
3:I:1381:VAL:HG23	3:I:1391:GLU:O	2.15	0.47
3:N:661:MET:CE	3:N:677:LEU:HD11	2.44	0.47
2:H:1019:GLN:OE1	3:I:621:LYS:HB3	2.15	0.47
2:H:120:LEU:N	2:H:120:LEU:HD22	2.28	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:437:ARG:HB3	2:C:438:ILE:HD12	1.95	0.47
1:B:218:LEU:CG	1:B:219:ARG:N	2.77	0.47
1:L:76:VAL:HA	1:L:79:ILE:HG22	1.96	0.47
4:O:41:GLU:HA	4:O:45:ARG:NE	2.29	0.47
2:H:861:LEU:HD23	2:H:862:PRO:HD2	1.96	0.47
3:I:1264:GLU:O	3:I:1266:ARG:HG3	2.13	0.47
3:I:1031:ASN:HD21	5:Y:32:ASP:HB3	1.75	0.47
2:M:692:GLU:HG2	2:M:696:LYS:HE3	1.96	0.47
3:D:1042:ARG:NH2	3:D:1061:PHE:HE1	2.13	0.47
3:D:1406:ARG:HD2	3:D:1412:LYS:CG	2.44	0.47
3:D:608:SER:HB2	3:D:1443:THR:OG1	2.14	0.47
1:F:61:VAL:CG2	1:F:68:ILE:HD11	2.44	0.47
2:M:145:GLY:HA3	2:M:276:LYS:HG2	1.95	0.47
3:D:195:VAL:HG12	3:D:196:VAL:N	2.29	0.47
3:N:508:ARG:HB3	3:N:510:GLU:OE2	2.14	0.47
3:N:1313:VAL:O	3:N:1313:VAL:HG13	2.15	0.47
3:D:963:TYR:CE2	3:D:1002:LYS:HB3	2.50	0.47
1:G:58:ILE:HB	1:G:61:VAL:HB	1.96	0.47
2:H:328:LEU:CD1	2:H:328:LEU:H	2.27	0.47
3:I:996:TRP:CG	3:I:1056:PRO:HG2	2.49	0.47
2:H:54:ILE:HD13	2:H:355:VAL:CG2	2.44	0.47
3:D:522:PRO:C	3:D:524:LEU:H	2.18	0.47
5:X:85:LEU:HD21	5:X:121:ASP:OD1	2.14	0.47
2:H:876:VAL:N	2:H:877:PRO:CD	2.76	0.47
1:L:62:LEU:HD12	1:L:63:HIS:HB2	1.96	0.47
3:I:704:ARG:HD3	3:I:738:ALA:HB2	1.96	0.47
3:N:925:GLU:HG2	3:N:929:ARG:HH12	1.78	0.47
2:M:338:GLU:HA	2:M:341:THR:HG22	1.96	0.47
3:D:1344:VAL:O	3:D:1347:TYR:HB3	2.14	0.47
2:H:254:VAL:HG12	2:H:258:TYR:CE1	2.49	0.47
2:H:333:ILE:HG22	2:H:465:GLY:HA2	1.96	0.47
3:D:700:VAL:HB	3:D:748:HIS:O	2.15	0.47
3:N:637:LEU:HD11	3:N:642:CYS:N	2.30	0.47
3:N:150:ARG:HH12	3:N:468:LEU:HD21	1.79	0.47
1:F:102:LYS:CB	1:F:138:LEU:O	2.62	0.47
2:H:612:VAL:CG2	2:H:622:GLU:CD	2.82	0.47
2:M:905:ILE:HD12	2:M:905:ILE:H	1.80	0.47
2:M:569:VAL:HG12	2:M:996:LYS:HB3	1.92	0.47
3:I:481:MET:CG	3:I:1388:ARG:NH2	2.73	0.47
1:G:124:ASN:HD21	1:G:127:LEU:HD22	1.77	0.47
2:M:888:THR:O	2:M:990:GLY:HA3	2.13	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1037:GLN:O	3:N:1038:LEU:HD23	2.14	0.47
2:H:471:TYR:OH	2:H:491:GLU:OE1	2.30	0.47
2:H:516:ARG:HH11	2:H:516:ARG:H	1.61	0.47
3:N:1349:VAL:HA	3:N:1368:ILE:HG21	1.97	0.47
2:H:88:LEU:HD13	2:H:89:THR:N	2.27	0.47
2:C:604:ALA:HB3	2:C:612:VAL:C	2.35	0.47
3:I:361:VAL:HG11	3:I:367:ILE:HD11	1.96	0.47
3:D:466:LYS:HG2	3:D:510:GLU:CG	2.43	0.47
3:N:1380:GLU:HG3	3:N:1381:VAL:N	2.30	0.47
2:M:184:MET:HB3	2:M:191:PHE:CE1	2.49	0.47
1:G:180:GLN:HB3	1:G:182:GLU:OE1	2.15	0.47
2:M:1109:VAL:HG21	3:N:5:VAL:HG13	1.95	0.47
3:D:892:ASP:OD2	3:D:895:VAL:HG23	2.13	0.47
2:H:202:TYR:HB3	2:H:207:LEU:HD12	1.96	0.47
2:H:835:VAL:HG13	2:H:836:GLY:H	1.77	0.47
3:I:36:THR:C	3:I:38:LYS:H	2.17	0.47
2:C:243:ARG:NH1	2:C:243:ARG:HG2	2.30	0.47
3:D:1294:VAL:HG13	3:D:1319:VAL:HG21	1.97	0.47
2:M:441:VAL:HG12	2:M:559:LEU:HA	1.96	0.47
3:D:584:ASN:OD1	3:D:590:PRO:HD2	2.15	0.47
2:H:1087:VAL:O	2:H:1091:GLU:HG3	2.15	0.47
2:H:29:ALA:O	2:H:44:ILE:HD13	2.14	0.47
3:N:941:PHE:C	3:N:943:THR:N	2.68	0.47
2:C:276:LYS:HA	2:C:280:LYS:HD3	1.97	0.47
2:M:1081:VAL:HG13	2:M:1085:PHE:HD1	1.79	0.47
2:H:987:ILE:CG2	3:I:948:THR:HG21	2.37	0.47
3:I:1098:LEU:HD21	3:I:1226:ALA:HA	1.97	0.47
3:I:187:LYS:HD3	3:I:199:LEU:HA	1.97	0.47
3:I:452:ILE:HG12	3:I:453:ASP:O	2.15	0.47
2:H:193:LEU:N	2:H:193:LEU:CD1	2.75	0.47
2:H:755:LEU:HG	2:H:790:LEU:O	2.13	0.47
3:D:388:HIS:O	3:D:390:PRO:HD3	2.14	0.47
2:H:163:ILE:HD13	2:H:171:TRP:CD1	2.49	0.47
2:M:679:PHE:O	2:M:681:GLY:N	2.48	0.47
3:I:800:LYS:HD3	3:I:802:ALA:C	2.35	0.47
4:O:54:LEU:CG	4:O:58:PRO:HB3	2.43	0.47
3:D:102:ILE:HD13	3:D:102:ILE:C	2.35	0.47
3:I:871:LYS:N	3:I:871:LYS:HD2	2.29	0.47
1:F:100:LEU:HD22	1:F:115:LEU:CD2	2.45	0.47
1:F:64:GLU:HB2	1:F:165:ILE:HG12	1.96	0.47
1:B:118:ALA:O	1:B:120:VAL:N	2.45	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:499:VAL:HG12	3:I:503:LEU:CD1	2.45	0.47
1:A:114:PHE:CE2	1:A:142:VAL:HG21	2.49	0.47
3:D:345:TYR:CE2	3:D:377:VAL:HA	2.50	0.47
2:M:1056:LYS:HB3	3:N:623:VAL:HG12	1.95	0.47
3:D:162:ARG:HE	3:D:452:ILE:CG2	2.28	0.47
3:N:1144:LEU:HD22	3:N:1186:VAL:HG11	1.96	0.47
2:C:15:LEU:HD21	2:C:583:LEU:HD12	1.97	0.47
2:H:905:ILE:N	2:H:905:ILE:HD12	2.30	0.47
3:N:116:LEU:HG	3:N:464:LEU:HD21	1.96	0.47
3:N:112:ILE:CB	3:N:512:MET:HE3	2.40	0.47
3:I:670:VAL:HG13	3:I:671:LYS:N	2.24	0.47
3:N:1083:ASP:O	3:N:1087:ARG:HG2	2.13	0.47
3:D:729:HIS:HE2	3:D:935:LYS:HZ3	1.62	0.47
2:H:390:GLN:NE2	2:H:390:GLN:H	2.13	0.47
3:I:936:TYR:HD1	3:I:937:TYR:CD1	2.32	0.47
3:I:1320:GLU:HG3	3:I:1321:ALA:N	2.30	0.47
2:M:1036:GLU:CD	2:M:1036:GLU:N	2.68	0.47
3:N:505:SER:OG	3:N:1453:ALA:HA	2.15	0.47
5:Y:44:GLU:C	5:Y:45:ASN:OD1	2.53	0.47
1:F:55:SER:HB2	1:F:166:PRO:HA	1.97	0.47
3:I:890:VAL:HA	3:I:926:LYS:HE3	1.95	0.47
3:I:561:GLY:C	3:I:563:PRO:HD3	2.35	0.47
3:I:1047:LYS:HZ1	3:I:1053:PHE:HA	1.78	0.47
2:C:684:PHE:O	2:C:685:GLU:C	2.53	0.47
3:D:782:SER:OG	3:D:783:ARG:N	2.48	0.47
3:N:493:ARG:HG3	3:N:494:LYS:N	2.30	0.47
2:H:34:VAL:HG11	2:H:38:LYS:NZ	2.30	0.47
2:H:44:ILE:HG22	2:H:45:GLN:N	2.29	0.47
2:M:860:HIS:CE1	2:M:977:GLY:HA2	2.49	0.47
2:C:196:LEU:CD2	2:C:200:LEU:HD21	2.44	0.47
3:I:764:LEU:HD23	3:I:767:HIS:CE1	2.50	0.47
3:D:804:LEU:HD11	3:D:830:ALA:C	2.34	0.47
5:X:6:LYS:HD2	5:X:85:LEU:HD12	1.94	0.47
2:C:328:LEU:HB2	2:C:433:THR:CG2	2.45	0.47
1:F:38:ASN:HB3	1:F:39:PRO:HD3	1.97	0.47
3:I:729:HIS:CG	3:I:730:PRO:HD2	2.49	0.47
3:I:1422:MET:CE	3:I:1427:SER:HA	2.45	0.47
3:I:636:GLN:NE2	3:I:637:LEU:HB2	2.27	0.47
4:J:41:GLU:N	4:J:42:PRO:CD	2.78	0.47
3:N:1197:ARG:CG	3:N:1198:TYR:H	2.21	0.47
2:M:331:ARG:NH2	2:M:427:VAL:CG2	2.74	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1330:ILE:HB	3:D:1347:TYR:OH	2.15	0.47
3:I:141:ILE:HG23	3:I:448:GLU:OE2	2.15	0.47
3:I:142:LEU:HB3	3:I:143:ASN:H	1.51	0.47
3:D:1087:ARG:HH21	3:D:1235:GLN:HE21	1.61	0.47
3:N:153:LEU:HD13	3:N:158:TYR:HB2	1.97	0.47
3:N:135:LEU:HG	3:N:149:LYS:O	2.15	0.47
3:D:212:ARG:CZ	3:D:388:HIS:NE2	2.78	0.47
1:K:48:ILE:HD12	1:K:48:ILE:N	2.29	0.47
5:Z:115:THR:HB	5:Z:116:PRO:CD	2.43	0.47
3:N:957:PRO:HG2	3:N:1007:VAL:HA	1.97	0.47
3:I:189:GLN:NE2	3:I:191:LEU:HD23	2.29	0.47
2:H:178:PRO:C	2:H:180:GLY:H	2.18	0.47
2:H:311:PHE:HA	2:H:314:THR:OG1	2.14	0.47
1:B:185:ARG:HB2	3:D:720:LEU:HD23	1.97	0.47
4:E:54:LEU:CG	4:E:58:PRO:HB3	2.45	0.47
3:N:766:ALA:CB	4:O:2:ALA:HA	2.45	0.47
3:I:864:VAL:HG12	3:I:865:THR:N	2.15	0.47
1:F:64:GLU:O	1:F:64:GLU:HG2	2.13	0.47
1:F:78:ILE:O	1:F:81:ASN:N	2.48	0.47
3:I:850:LEU:N	3:I:850:LEU:HD12	2.16	0.47
2:H:837:ASP:O	2:H:849:VAL:HG23	2.15	0.47
1:B:85:LEU:HD12	1:B:124:ASN:HD22	1.78	0.47
1:B:124:ASN:HD21	1:B:127:LEU:HD12	1.77	0.47
1:K:101:LEU:HD21	1:K:113:ASP:HB3	1.95	0.47
2:C:713:ARG:HG3	2:C:758:ARG:NH2	2.29	0.47
3:I:1379:VAL:HB	3:I:1418:LYS:C	2.35	0.47
1:A:61:VAL:HG23	1:A:68:ILE:HD11	1.97	0.47
1:A:138:LEU:O	1:A:138:LEU:HG	2.14	0.47
5:Z:109:GLU:O	5:Z:110:ALA:C	2.52	0.47
2:C:181:VAL:HG12	2:C:182:VAL:O	2.14	0.47
2:C:218:VAL:C	2:C:220:GLY:H	2.18	0.47
2:H:496:ILE:HB	2:H:516:ARG:HD2	1.97	0.47
1:K:229:GLN:HG3	1:K:230:ALA:N	2.25	0.47
3:D:417:PRO:HG3	3:D:431:VAL:HA	1.96	0.47
3:N:112:ILE:HG23	3:N:113:GLY:N	2.30	0.47
3:I:467:GLU:O	3:I:468:LEU:C	2.52	0.47
2:M:129:ILE:HD12	2:M:129:ILE:N	2.30	0.47
3:D:792:ILE:HG12	3:D:878:GLY:CA	2.44	0.47
2:M:72:ARG:O	2:M:73:LEU:HB3	2.15	0.47
2:C:304:LEU:HD11	2:C:308:ARG:HE	1.78	0.47
2:C:425:PHE:HA	2:C:428:ARG:HD2	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:196:LEU:CD2	2:M:200:LEU:HD11	2.45	0.47
3:D:44:LEU:HD21	3:D:545:ARG:HG2	1.96	0.47
2:M:639:GLN:O	2:M:641:PRO:HD3	2.15	0.47
2:H:861:LEU:CD2	2:H:862:PRO:HD2	2.44	0.47
5:Y:19:LEU:HD21	5:Y:66:GLU:HG2	1.97	0.47
2:C:615:TYR:HB2	2:C:619:ARG:CG	2.44	0.47
3:D:486:ARG:HA	3:D:489:ARG:CG	2.43	0.47
2:C:41:ASN:HA	2:C:45:GLN:CD	2.34	0.47
5:X:123:SER:O	5:X:126:GLY:N	2.47	0.47
3:N:1374:GLN:HE22	3:N:1377:LYS:HD2	1.80	0.47
3:D:86:ARG:O	3:D:86:ARG:HD3	2.14	0.47
2:C:944:LEU:HD11	2:C:963:LEU:HD23	1.97	0.47
3:N:1062:ARG:O	3:N:1062:ARG:HD2	2.14	0.47
2:H:801:VAL:HG22	2:H:801:VAL:O	2.14	0.47
1:F:189:ARG:HD2	1:F:191:ASP:OD1	2.14	0.47
2:M:145:GLY:HA3	2:M:276:LYS:CG	2.45	0.47
1:G:175:ARG:N	1:G:200:TRP:O	2.48	0.47
2:C:177:GLU:CD	2:C:179:ASN:HB3	2.35	0.47
2:M:269:LEU:HG	2:M:285:LEU:CD2	2.45	0.47
5:Z:89:VAL:HA	5:Z:154:ILE:HG23	1.97	0.47
3:D:963:TYR:HE2	3:D:1002:LYS:HB3	1.80	0.47
2:M:178:PRO:C	2:M:180:GLY:N	2.67	0.47
3:N:651:GLU:C	3:N:653:PHE:H	2.16	0.47
1:K:117:VAL:O	1:K:117:VAL:HG12	2.14	0.47
2:C:913:GLU:O	2:C:916:GLU:HB3	2.14	0.47
5:X:114:ASP:HB2	5:X:118:LYS:HG3	1.97	0.47
3:I:1441:GLN:HG2	3:I:1442:ASN:H	1.80	0.47
3:I:943:THR:OG1	3:I:944:THR:N	2.48	0.47
3:D:501:ALA:HB1	3:D:1452:ILE:CG2	2.42	0.47
3:I:1229:ILE:C	3:I:1232:PRO:HD2	2.35	0.47
3:I:702:LEU:O	3:I:713:ILE:HA	2.14	0.47
3:I:162:ARG:NH1	3:I:450:TYR:HB3	2.29	0.47
1:B:147:GLY:HA3	1:B:171:PHE:CE2	2.49	0.47
1:B:201:THR:HG22	1:B:202:ASP:N	2.30	0.47
2:H:163:ILE:HG12	2:H:171:TRP:NE1	2.29	0.47
3:N:989:TYR:OH	3:N:1052:THR:O	2.33	0.47
2:H:157:ARG:HE	2:H:314:THR:HB	1.79	0.47
3:D:496:LEU:HA	3:D:499:VAL:CG2	2.45	0.47
3:I:209:ARG:NH2	3:I:390:PRO:O	2.45	0.47
3:I:841:TYR:HB2	3:I:864:VAL:HG13	1.96	0.47
1:G:80:LEU:HD21	3:I:867:ARG:CZ	2.44	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:205:GLU:HA	2:C:209:ARG:NH1	2.29	0.47
2:M:575:GLN:HG3	2:M:670:GLN:HG2	1.96	0.47
2:C:129:ILE:HD13	2:C:134:ARG:HG3	1.96	0.47
2:C:335:THR:O	2:C:339:LEU:HG	2.15	0.47
3:N:867:ARG:HA	3:N:871:LYS:O	2.15	0.47
1:A:45:LEU:HG	1:A:174:VAL:CB	2.44	0.47
5:Z:26:LEU:HA	5:Z:58:ASN:ND2	2.29	0.47
3:D:1109:GLU:OE2	3:D:1201:CYS:SG	2.73	0.47
3:I:118:LEU:HD22	3:I:123:LEU:HD23	1.96	0.47
3:I:119:SER:HB2	3:I:123:LEU:CB	2.38	0.47
3:I:710:ARG:C	3:I:712:GLY:H	2.16	0.47
2:C:700:TYR:O	2:C:833:LEU:HD13	2.15	0.47
2:H:410:ILE:O	2:H:452:ILE:HG23	2.15	0.47
3:I:660:LYS:HG3	3:I:664:LYS:CE	2.41	0.47
2:C:879:ARG:HB3	2:C:881:ASN:HD21	1.80	0.47
3:N:1256:LEU:N	3:N:1257:PRO:CD	2.78	0.47
3:D:15:PRO:O	3:D:18:ILE:HB	2.14	0.47
2:M:425:PHE:CE2	3:N:1082:ALA:HB1	2.49	0.47
2:M:628:PHE:CD1	2:M:638:ASP:HB3	2.50	0.47
3:I:1262:LEU:HD21	3:I:1351:GLU:HG3	1.96	0.47
2:M:1071:ILE:O	3:N:659:LYS:HD2	2.15	0.47
3:N:361:VAL:HG12	3:N:383:GLY:N	2.30	0.47
3:I:1149:LEU:HD21	3:I:1164:ARG:HB3	1.96	0.47
2:C:911:GLU:HG3	3:D:951:ILE:HD11	1.97	0.47
3:N:652:LEU:C	3:N:653:PHE:CD1	2.88	0.47
3:I:33:ASN:HD22	3:I:34:TYR:H	1.62	0.47
1:L:92:PRO:O	1:L:146:ARG:NH2	2.48	0.47
1:A:128:HIS:NE2	1:A:131:THR:HG23	2.30	0.47
2:H:230:ARG:HB3	2:H:233:GLU:HB2	1.96	0.47
3:I:1434:TRP:CE3	3:I:1457:ASP:HB2	2.49	0.47
3:I:996:TRP:HA	3:I:999:THR:CG2	2.42	0.47
2:H:47:ALA:O	2:H:50:GLU:HB2	2.15	0.47
2:M:676:ILE:HG13	2:M:873:PRO:HG3	1.96	0.47
2:M:949:LYS:HD3	3:N:796:ARG:NH2	2.30	0.47
3:N:179:VAL:HG12	3:N:180:LYS:N	2.29	0.47
2:C:532:MET:HG2	2:C:533:ASP:N	2.29	0.47
2:C:1089:VAL:O	2:C:1093:GLN:HG2	2.14	0.47
1:F:195:LEU:HD12	1:F:196:THR:H	1.79	0.47
3:N:812:ALA:HA	3:N:816:HIS:HD1	1.80	0.47
1:B:57:TYR:HE1	1:B:163:ASN:ND2	2.07	0.47
1:B:78:ILE:O	1:B:82:LEU:HG	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:99:ALA:HB3	3:N:514:LEU:HD11	1.97	0.47
2:H:604:ALA:HB3	2:H:612:VAL:O	2.15	0.47
2:C:118:ILE:O	2:C:118:ILE:HD12	2.15	0.47
3:N:187:LYS:HE3	3:N:187:LYS:HB2	1.76	0.47
2:C:1014:SER:CB	2:C:1019:GLN:H	2.21	0.47
3:N:1031:ASN:O	3:N:1035:ILE:HG12	2.15	0.47
3:N:1348:LEU:HD13	3:N:1348:LEU:N	2.29	0.47
3:I:202:VAL:HG11	3:I:445:ARG:HH21	1.78	0.47
2:C:69:LEU:HB2	2:C:97:ARG:O	2.15	0.47
1:L:81:ASN:ND2	1:L:129:ILE:HD13	2.30	0.47
5:X:102:VAL:CG1	5:X:103:GLN:N	2.78	0.47
1:A:133:GLU:OE2	2:C:605:LYS:HG2	2.15	0.47
2:C:470:PRO:HB2	2:C:534:VAL:HG21	1.95	0.47
5:Y:33:PHE:HZ	5:Y:52:ARG:HE	1.60	0.47
5:Z:94:PRO:HD3	5:Z:149:PHE:HA	1.96	0.47
3:D:650:LEU:HD13	3:D:688:TRP:HZ3	1.77	0.47
3:I:895:VAL:HA	3:I:898:GLU:HG2	1.97	0.47
3:N:1438:ALA:O	3:N:1443:THR:HG22	2.14	0.47
3:N:11:ALA:HB2	3:N:1454:GLY:HA2	1.97	0.47
3:I:1256:LEU:HD12	3:I:1259:VAL:CG2	2.44	0.47
1:L:207:PRO:O	1:L:210:ALA:HB3	2.15	0.47
3:D:980:MET:HA	5:X:142:THR:CG2	2.45	0.47
1:A:37:GLY:HA2	1:A:197:LEU:HD11	1.97	0.47
1:G:111:ALA:O	1:G:114:PHE:HD1	1.98	0.47
3:D:990:ASP:HA	3:D:993:LEU:HD12	1.96	0.47
2:H:9:ILE:O	2:H:9:ILE:HG13	2.14	0.47
3:N:1128:VAL:O	3:N:1129:THR:HG22	2.15	0.47
2:H:1088:LEU:HG	3:I:613:ARG:HD2	1.96	0.47
2:M:973:VAL:HG12	2:M:974:LEU:N	2.29	0.47
3:D:818:ARG:O	3:D:821:VAL:N	2.48	0.47
3:N:1166:LEU:HD23	3:N:1166:LEU:N	2.19	0.47
3:I:704:ARG:HB2	3:I:736:PHE:HB3	1.97	0.47
3:I:199:LEU:HD21	3:I:397:LYS:HD2	1.97	0.47
1:A:55:SER:HB3	1:A:158:ILE:HG21	1.96	0.47
3:D:704:ARG:HD3	3:D:738:ALA:HB2	1.97	0.47
3:N:1217:ILE:H	3:N:1217:ILE:CD1	2.11	0.47
1:F:56:VAL:HG21	1:F:82:LEU:HD13	1.97	0.47
1:F:58:ILE:HG22	1:F:59:GLU:N	2.29	0.47
1:B:85:LEU:CD2	1:B:111:ALA:HB1	2.45	0.47
3:D:877:PRO:HA	3:D:880:ILE:HG22	1.97	0.47
2:H:72:ARG:O	2:H:73:LEU:HB3	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:135:VAL:C	2:C:136:ILE:HD12	2.36	0.47
3:I:477:LEU:HD12	3:I:499:VAL:HG21	1.97	0.47
3:I:1205:TYR:CE2	3:I:1215:VAL:HG21	2.49	0.47
3:D:162:ARG:HE	3:D:452:ILE:CG1	2.20	0.47
2:H:408:ARG:NH2	2:H:456:ALA:O	2.47	0.47
2:C:1031:ARG:NH2	3:D:621:LYS:NZ	2.58	0.47
2:C:437:ARG:O	2:C:438:ILE:HD12	2.14	0.47
3:N:1491:THR:O	3:N:1494:ALA:HB3	2.15	0.47
4:O:27:ALA:O	4:O:30:LEU:HB2	2.15	0.47
3:D:112:ILE:HB	3:D:512:MET:HE3	1.97	0.47
3:N:213:VAL:O	3:N:342:PRO:HA	2.15	0.47
5:Y:5:VAL:HG11	5:Y:68:ILE:HG23	1.97	0.47
1:B:95:GLN:HA	1:B:146:ARG:HG2	1.96	0.47
2:M:274:ARG:O	2:M:277:ALA:HB3	2.15	0.47
1:K:60:ASP:HB2	1:K:68:ILE:CG2	2.44	0.47
2:H:520:GLU:O	2:H:522:VAL:HG23	2.15	0.47
2:H:402:SER:HA	2:H:566:THR:HG23	1.96	0.47
3:N:1117:TYR:HB3	3:N:1150:ALA:CB	2.44	0.47
1:F:226:SER:OG	1:F:227:ASN:N	2.48	0.47
3:D:1299:PHE:N	3:D:1299:PHE:CD2	2.83	0.47
3:I:988:ARG:HG3	3:I:988:ARG:NH1	2.29	0.47
2:C:984:GLU:O	3:D:946:GLY:HA3	2.15	0.47
3:N:435:VAL:HG22	3:N:446:VAL:HG22	1.97	0.47
2:M:563:ASN:O	2:M:566:THR:HB	2.15	0.47
1:F:55:SER:CB	1:F:166:PRO:HA	2.45	0.46
1:L:37:GLY:HA2	1:L:197:LEU:HD11	1.96	0.46
3:I:539:ASP:O	3:I:540:LEU:C	2.54	0.46
2:M:113:VAL:HG11	2:M:373:VAL:CG2	2.45	0.46
2:M:749:VAL:HG11	2:M:755:LEU:HD23	1.93	0.46
2:C:239:PHE:CD1	2:C:242:LEU:HD12	2.50	0.46
1:F:171:PHE:O	1:F:172:SER:C	2.54	0.46
3:N:925:GLU:O	3:N:928:ALA:HB3	2.15	0.46
3:N:1108:ARG:NE	3:N:1199:GLY:HA3	2.24	0.46
2:M:167:LYS:C	2:M:169:GLY:H	2.18	0.46
3:N:119:SER:HB3	3:N:123:LEU:N	2.27	0.46
3:N:133:ILE:HD12	3:N:158:TYR:CE2	2.50	0.46
2:H:171:TRP:HH2	2:H:417:GLY:HA2	1.80	0.46
3:I:185:VAL:HG11	3:I:191:LEU:HD21	1.97	0.46
2:H:178:PRO:C	2:H:180:GLY:N	2.68	0.46
3:D:709:HIS:C	3:D:1227:GLN:NE2	2.68	0.46
3:D:711:LEU:C	3:D:713:ILE:N	2.68	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:152:LEU:HD12	3:N:152:LEU:C	2.35	0.46
4:O:15:SER:O	4:O:18:ARG:HB3	2.15	0.46
2:H:688:ILE:HD13	2:H:847:GLY:HA3	1.96	0.46
2:M:508:ILE:CD1	2:M:529:VAL:HG21	2.44	0.46
2:C:90:TYR:O	2:C:119:PRO:HA	2.15	0.46
2:C:137:VAL:HG22	2:C:138:SER:O	2.15	0.46
1:A:18:ARG:O	1:A:207:PRO:HD3	2.14	0.46
3:I:1389:LEU:HD12	3:I:1390:LEU:HD22	1.97	0.46
3:N:761:ILE:CD1	4:O:20:THR:HA	2.36	0.46
2:M:1056:LYS:HB3	3:N:623:VAL:CG1	2.46	0.46
2:M:731:GLU:C	2:M:733:ALA:H	2.18	0.46
2:H:455:LEU:O	2:H:541:SER:HB2	2.15	0.46
1:G:156:HIS:CE1	1:G:158:ILE:H	2.34	0.46
2:H:189:ARG:HG3	2:H:243:ARG:HD2	1.96	0.46
3:I:426:LYS:O	3:I:428:LYS:HG3	2.16	0.46
2:C:979:THR:HG23	2:C:981:GLU:H	1.79	0.46
3:N:815:ALA:O	3:N:818:ARG:N	2.48	0.46
2:C:200:LEU:HB3	2:C:300:ASP:OD1	2.16	0.46
2:M:1046:ALA:HB1	3:N:1471:LEU:HG	1.97	0.46
2:C:1085:PHE:O	2:C:1089:VAL:HG23	2.15	0.46
3:D:521:PRO:O	3:D:525:ARG:NH1	2.47	0.46
3:N:524:LEU:HD12	3:N:524:LEU:HA	1.71	0.46
3:D:168:THR:HG21	2:H:308:ARG:HD2	1.96	0.46
1:F:43:ILE:HG13	1:F:44:LEU:N	2.30	0.46
3:N:832:ARG:NE	3:N:832:ARG:HA	2.30	0.46
1:K:73:GLU:HB3	1:K:77:GLU:HG2	1.98	0.46
3:I:703:ASN:HB2	3:I:713:ILE:CG2	2.45	0.46
3:D:1330:ILE:HG22	3:D:1331:ASP:H	1.77	0.46
2:M:157:ARG:HA	2:M:157:ARG:NE	2.29	0.46
2:H:724:ARG:CZ	2:H:724:ARG:HB3	2.44	0.46
3:D:1398:TRP:CE3	3:D:1417:TRP:HB3	2.51	0.46
3:N:983:LEU:HB2	3:N:987:GLU:HB3	1.96	0.46
3:D:601:ARG:HD3	3:D:606:ILE:CD1	2.46	0.46
3:D:664:LYS:C	3:D:666:ILE:H	2.18	0.46
2:H:135:VAL:O	2:H:392:SER:HA	2.15	0.46
3:I:629:SER:OG	3:I:630:VAL:N	2.49	0.46
2:M:309:TYR:O	2:M:312:ALA:HB3	2.14	0.46
3:I:1148:VAL:HG21	3:I:1203:LYS:HA	1.96	0.46
3:I:1200:VAL:HG12	3:I:1201:CYS:H	1.79	0.46
1:G:115:LEU:O	1:G:115:LEU:HD12	2.15	0.46
2:M:694:LEU:HD11	2:M:868:ASP:HB3	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:84:ILE:HD13	3:I:84:ILE:H	1.80	0.46
2:C:833:LEU:HD11	2:C:996:LYS:HD3	1.96	0.46
2:H:516:ARG:HH21	3:I:1068:LEU:HD11	1.81	0.46
2:H:948:GLU:HB3	2:H:955:PRO:HG3	1.97	0.46
1:K:90:LEU:HD13	1:K:119:ASP:O	2.14	0.46
2:H:1002:GLU:HG3	2:H:1003:ASP:N	2.30	0.46
2:H:467:ILE:HD12	2:H:467:ILE:N	2.29	0.46
2:C:442:GLU:O	2:C:442:GLU:HG3	2.16	0.46
2:H:3:ILE:O	2:H:3:ILE:HG13	2.15	0.46
2:H:1103:ASP:CB	3:I:2:LYS:HG3	2.45	0.46
3:I:462:GLN:HG3	3:I:513:ILE:HG12	1.98	0.46
3:N:1149:LEU:HD21	3:N:1161:GLU:O	2.14	0.46
2:C:226:VAL:HG13	2:C:227:PHE:HD1	1.80	0.46
3:I:1236:LEU:CB	3:I:1256:LEU:HB2	2.45	0.46
3:I:138:LYS:H	3:I:138:LYS:CE	2.27	0.46
3:I:138:LYS:CD	3:I:138:LYS:H	2.28	0.46
1:A:179:PHE:CB	1:A:197:LEU:HG	2.45	0.46
3:D:889:ALA:HB1	3:D:930:LEU:HA	1.96	0.46
2:H:554:ASP:OD2	2:H:556:ASN:HB3	2.16	0.46
1:L:172:SER:O	1:L:174:VAL:N	2.48	0.46
2:C:676:ILE:O	2:C:677:MET:HB3	2.14	0.46
3:I:767:HIS:HE1	4:J:2:ALA:HB1	1.80	0.46
3:N:1434:TRP:CG	3:N:1435:LEU:N	2.83	0.46
2:H:13:ILE:HD12	2:H:14:PRO:HD2	1.97	0.46
3:I:1098:LEU:CG	3:I:1226:ALA:HA	2.45	0.46
3:I:649:ALA:HA	3:I:652:LEU:CD2	2.46	0.46
3:N:1197:ARG:HG3	3:N:1198:TYR:N	2.29	0.46
3:N:704:ARG:CZ	3:N:705:ALA:HB3	2.44	0.46
3:D:171:LEU:HG	3:D:392:SER:CA	2.31	0.46
3:N:171:LEU:HD21	3:N:175:VAL:O	2.15	0.46
2:H:154:ARG:HG2	2:H:154:ARG:NH1	2.30	0.46
2:C:350:ARG:NH2	2:C:377:PRO:O	2.49	0.46
3:D:633:VAL:HG22	3:D:634:GLY:N	2.31	0.46
3:D:692:GLU:HB2	3:D:720:LEU:HD11	1.96	0.46
2:H:952:LEU:HD12	2:H:969:GLN:NE2	2.27	0.46
2:C:411:SER:HB2	2:C:452:ILE:HG12	1.98	0.46
2:H:580:MET:HB3	2:H:584:GLU:OE1	2.15	0.46
2:H:666:LEU:HD12	2:H:667:ALA:N	2.30	0.46
2:H:74:GLY:C	2:H:76:PRO:HD3	2.36	0.46
3:I:1379:VAL:HG23	3:I:1380:GLU:N	2.30	0.46
1:A:102:LYS:HA	1:A:138:LEU:HD11	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:130:SER:OG	3:I:131:LYS:N	2.47	0.46
2:C:516:ARG:CD	3:D:1068:LEU:HD22	2.45	0.46
2:H:536:PRO:HD2	2:H:537:LYS:NZ	2.30	0.46
1:L:13:VAL:HG12	1:L:14:ARG:N	2.30	0.46
2:H:129:ILE:HG21	2:H:387:SER:HB3	1.96	0.46
1:A:90:LEU:HB2	1:A:119:ASP:CG	2.34	0.46
1:L:54:THR:O	1:L:167:VAL:N	2.46	0.46
3:D:1171:VAL:HA	3:D:1174:LEU:CD1	2.45	0.46
3:D:1476:THR:HG21	4:E:20:THR:HG21	1.96	0.46
5:Y:46:ALA:O	5:Y:50:GLU:HB2	2.15	0.46
4:O:84:ARG:HD3	4:O:84:ARG:HA	1.79	0.46
1:F:206:THR:OG1	1:F:207:PRO:CD	2.62	0.46
2:C:1105:LYS:HB2	2:C:1105:LYS:NZ	2.30	0.46
3:D:1242:HIS:C	3:D:1243:THR:HG22	2.34	0.46
3:N:1485:GLN:CB	4:O:79:LEU:HD22	2.44	0.46
5:X:29:ILE:HG23	5:X:33:PHE:HE2	1.80	0.46
5:Z:92:GLU:HB2	5:Z:152:VAL:HG23	1.97	0.46
2:M:589:ARG:NH1	2:M:596:TYR:CE2	2.83	0.46
1:L:221:HIS:HA	1:L:224:TYR:CD2	2.50	0.46
3:I:1313:VAL:HG11	3:I:1325:LEU:HD12	1.96	0.46
2:M:1036:GLU:CD	2:M:1036:GLU:H	2.19	0.46
2:M:66:LEU:CD2	2:M:100:LEU:HD23	2.45	0.46
1:L:175:ARG:HH21	3:N:847:ASP:HB2	1.80	0.46
3:D:806:PHE:HD1	3:D:812:ALA:HB3	1.81	0.46
3:D:87:ARG:HA	3:D:521:PRO:CB	2.46	0.46
1:F:39:PRO:HA	1:G:35:THR:HG22	1.95	0.46
2:H:873:PRO:O	2:H:876:VAL:HG23	2.15	0.46
2:C:1050:GLN:HE21	3:D:1471:LEU:N	2.13	0.46
3:N:118:LEU:CD2	3:N:123:LEU:HD23	2.45	0.46
3:D:161:LEU:HD11	3:D:397:LYS:HZ2	1.81	0.46
2:H:461:VAL:CG1	2:H:462:ASP:N	2.79	0.46
2:C:72:ARG:O	2:C:73:LEU:HB3	2.16	0.46
3:N:100:ALA:C	3:N:514:LEU:HD23	2.35	0.46
3:N:756:GLN:NE2	3:N:756:GLN:HA	2.30	0.46
1:F:56:VAL:HG12	1:F:57:TYR:N	2.30	0.46
2:H:571:LEU:HD23	2:H:670:GLN:HE21	1.79	0.46
3:D:1237:THR:CG2	3:D:1238:MET:N	2.75	0.46
3:N:1422:MET:HG3	3:N:1427:SER:OG	2.16	0.46
3:I:477:LEU:CD1	3:I:499:VAL:HG21	2.46	0.46
1:A:101:LEU:O	1:A:140:MET:SD	2.73	0.46
4:J:73:LEU:HD22	4:J:73:LEU:N	2.30	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1144:LEU:O	3:N:1145:TYR:C	2.52	0.46
3:N:889:ALA:HB1	3:N:930:LEU:HA	1.97	0.46
3:I:980:MET:HA	5:Y:142:THR:HG23	1.98	0.46
2:C:605:LYS:HB2	2:C:612:VAL:HG23	1.97	0.46
3:N:26:VAL:HG13	3:N:42:ASP:O	2.15	0.46
2:M:671:ASN:OD1	2:M:993:PHE:HD2	1.98	0.46
3:I:1277:ILE:HG12	3:I:1299:PHE:CZ	2.51	0.46
3:D:984:THR:HG22	3:D:987:GLU:H	1.80	0.46
2:C:554:ASP:HB2	2:C:880:MET:HG2	1.97	0.46
3:N:1152:GLU:CG	3:N:1161:GLU:HA	2.43	0.46
3:N:356:PRO:HG2	3:N:359:ALA:CB	2.44	0.46
3:N:1053:PHE:CZ	3:N:1072:ILE:HD12	2.51	0.46
2:H:384:GLU:HG3	2:H:388:ARG:HB2	1.97	0.46
2:H:594:ALA:HB1	2:H:656:ALA:O	2.16	0.46
1:K:13:VAL:HG22	1:K:23:PHE:CD1	2.50	0.46
3:N:195:VAL:HG12	3:N:196:VAL:N	2.30	0.46
3:I:616:GLN:C	3:I:618:LEU:N	2.68	0.46
2:H:54:ILE:HD11	2:H:356:ARG:HB2	1.96	0.46
2:C:162:ILE:HG22	2:C:164:PRO:HD3	1.97	0.46
3:I:765:SER:C	3:I:767:HIS:H	2.19	0.46
1:A:30:ARG:HH12	1:A:191:ASP:HB2	1.80	0.46
2:H:975:TYR:HA	2:H:982:PRO:HA	1.98	0.46
3:D:1266:ARG:O	3:D:1268:PRO:HD3	2.16	0.46
2:H:708:TYR:HE1	2:H:827:VAL:HG11	1.81	0.46
1:B:76:VAL:O	1:B:79:ILE:HG13	2.16	0.46
5:Z:115:THR:CB	5:Z:116:PRO:CD	2.93	0.46
3:D:732:VAL:HB	3:D:736:PHE:HE1	1.80	0.46
2:M:535:SER:OG	2:M:537:LYS:HD3	2.16	0.46
2:C:1042:ALA:HB2	3:D:1223:ILE:HG21	1.98	0.46
2:M:147:TYR:C	2:M:148:PHE:HD2	2.18	0.46
1:G:90:LEU:HD23	1:G:91:ASN:N	2.30	0.46
2:M:1050:GLN:HA	2:M:1053:LEU:CD2	2.46	0.46
2:M:235:LEU:HD11	2:M:298:PHE:CZ	2.51	0.46
3:I:666:ILE:HG22	3:I:676:MET:HE2	1.96	0.46
3:N:911:LEU:O	3:N:914:LEU:HB3	2.15	0.46
5:X:36:ALA:O	5:X:39:GLU:HB2	2.15	0.46
3:I:1264:GLU:OE2	3:I:1424:VAL:HG12	2.14	0.46
2:M:841:ASN:HD21	2:M:884:GLN:HG2	1.80	0.46
2:C:1088:LEU:CG	3:D:613:ARG:HD2	2.46	0.46
3:D:646:LYS:HD2	3:D:688:TRP:CZ2	2.50	0.46
3:D:731:LEU:HD22	3:D:779:ALA:CA	2.44	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1045:MET:CE	3:D:1073:SER:HA	2.45	0.46
3:D:1382:THR:HB	3:D:1416:ALA:O	2.15	0.46
5:X:19:LEU:HD21	5:X:23:ARG:NH2	2.31	0.46
3:I:440:VAL:HB	3:I:441:ARG:HD2	1.98	0.46
1:G:227:ASN:HD22	1:G:227:ASN:N	2.12	0.46
3:N:415:VAL:HG13	3:N:419:ASP:HB2	1.96	0.46
1:F:11:PHE:HB2	1:G:224:TYR:O	2.15	0.46
3:I:795:VAL:HG12	3:I:796:ARG:N	2.30	0.46
3:I:1036:ARG:C	3:I:1038:LEU:H	2.18	0.46
3:D:971:LEU:HD11	3:D:992:ILE:HG23	1.96	0.46
2:C:678:PRO:HD3	2:C:873:PRO:HG2	1.96	0.46
2:C:892:LEU:HD13	2:C:989:VAL:HG23	1.97	0.46
2:M:676:ILE:HD11	3:N:949:ILE:HB	1.98	0.46
2:C:196:LEU:HD22	2:C:200:LEU:HD21	1.98	0.46
2:C:1090:LYS:HA	2:C:1093:GLN:CG	2.45	0.46
3:N:520:LEU:HG	3:N:521:PRO:CD	2.46	0.46
2:M:166:PRO:O	2:M:169:GLY:N	2.48	0.46
3:N:119:SER:CB	3:N:123:LEU:HB2	2.31	0.46
3:N:397:LYS:O	3:N:397:LYS:HG3	2.16	0.46
2:M:872:ASN:HD21	2:M:874:LEU:HB2	1.80	0.46
2:M:1095:LEU:HB2	3:N:101:HIS:HE2	1.79	0.46
4:E:47:LYS:CA	4:E:54:LEU:HB3	2.45	0.46
1:L:56:VAL:HG21	1:L:82:LEU:HD12	1.97	0.46
2:C:673:LEU:CD2	2:C:673:LEU:C	2.84	0.46
2:H:583:LEU:N	2:H:584:GLU:OE2	2.49	0.46
2:H:92:ALA:C	2:H:117:HIS:HB3	2.35	0.46
2:M:834:GLN:H	2:M:837:ASP:CG	2.18	0.46
3:I:470:LEU:HD23	3:I:470:LEU:H	1.81	0.46
3:I:356:PRO:O	3:I:385:VAL:HG21	2.15	0.46
1:A:99:LEU:HB3	1:A:114:PHE:HD2	1.80	0.46
3:I:1189:ARG:HB3	3:I:1204:CYS:HA	1.98	0.46
3:D:138:LYS:CE	3:D:138:LYS:H	2.24	0.46
3:I:365:ASP:H	3:I:379:ALA:CB	2.26	0.46
3:I:1486:VAL:HG12	4:J:22:VAL:HG13	1.97	0.46
3:D:407:VAL:HG21	3:D:437:VAL:HG13	1.97	0.46
2:H:473:ARG:HA	2:H:531:PHE:HD1	1.81	0.46
5:Z:19:LEU:HD21	5:Z:23:ARG:NH2	2.31	0.46
3:I:684:LYS:HB2	3:I:687:VAL:CG2	2.42	0.46
3:I:1304:LYS:HB3	3:I:1304:LYS:NZ	2.31	0.46
3:I:639:LEU:HD13	3:I:640:HIS:H	1.80	0.46
3:I:15:PRO:HB3	3:I:515:GLU:HG3	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:615:ARG:O	3:D:619:LEU:HG	2.15	0.46
2:C:953:VAL:HG11	2:C:962:GLN:CG	2.45	0.46
4:E:31:LEU:HD12	4:E:32:ARG:HG3	1.96	0.46
3:D:892:ASP:OD2	3:D:894:LYS:HB2	2.16	0.46
2:H:685:GLU:HG2	3:I:739:ASP:CB	2.45	0.46
3:I:198:ARG:HA	3:I:198:ARG:CZ	2.46	0.46
3:I:1108:ARG:O	3:I:1108:ARG:HG2	2.15	0.46
2:M:1086:ARG:HD2	3:N:88:TYR:CD2	2.51	0.46
2:C:164:PRO:CB	2:C:265:ARG:H	2.28	0.46
3:N:1464:GLU:HG2	3:N:1465:ASN:H	1.80	0.46
3:D:835:SER:N	3:D:838:ARG:HD3	2.30	0.46
2:H:691:SER:HA	2:H:853:LEU:O	2.15	0.46
2:H:858:MET:HE2	2:H:859:PRO:CD	2.45	0.46
2:H:1039:ALA:CB	3:I:713:ILE:HD11	2.43	0.46
1:A:83:LYS:HB3	1:A:170:VAL:HG11	1.97	0.46
2:H:824:ARG:HH11	2:H:824:ARG:HG2	1.80	0.46
3:N:166:GLN:HE21	3:N:396:VAL:HG11	1.80	0.46
3:N:729:HIS:NE2	3:N:731:LEU:HD12	2.31	0.46
1:B:190:THR:CG2	3:D:722:GLU:HG2	2.45	0.46
3:D:696:HIS:CE1	4:E:54:LEU:HD11	2.50	0.46
3:D:148:GLU:HB3	3:D:151:GLN:HB3	1.98	0.46
3:D:378:ILE:CG2	3:D:379:ALA:N	2.78	0.46
2:M:674:VAL:HG22	2:M:675:ALA:N	2.31	0.46
2:M:360:LEU:HD23	2:M:361:MET:N	2.31	0.46
2:M:89:THR:HG22	2:M:129:ILE:O	2.15	0.46
2:H:437:ARG:HH22	2:H:488:ALA:HA	1.81	0.46
3:N:1490:LYS:HE3	4:O:39:VAL:HG12	1.97	0.46
2:C:630:ARG:HD3	2:C:705:ILE:HB	1.98	0.46
5:Y:62:ILE:HG23	5:Y:63:ASP:N	2.30	0.46
3:I:547:LEU:HG	3:I:548:ILE:HD12	1.98	0.46
2:M:1109:VAL:HG11	3:N:5:VAL:HG22	1.98	0.46
1:G:110:LYS:HB2	1:G:112:ARG:HD3	1.97	0.46
2:C:642:ARG:HG2	2:C:642:ARG:NH1	2.30	0.46
3:D:842:VAL:O	3:D:842:VAL:HG23	2.15	0.46
1:A:93:SER:O	1:A:95:GLN:N	2.47	0.46
2:C:550:LEU:HG	3:D:1070:TYR:HE1	1.81	0.46
4:E:8:LYS:O	4:E:12:MET:HG2	2.15	0.46
2:C:142:ARG:O	2:C:143:SER:C	2.54	0.46
2:H:872:ASN:ND2	2:H:874:LEU:HG	2.31	0.46
3:I:862:ASP:O	3:I:876:SER:HB2	2.16	0.46
2:M:839:LEU:HB2	2:M:995:MET:O	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:861:LEU:HD23	2:M:862:PRO:N	2.30	0.46
2:C:264:PRO:CB	2:C:289:THR:HB	2.44	0.46
3:I:778:LEU:C	3:I:780:LYS:H	2.19	0.46
1:A:30:ARG:HD2	3:D:855:HIS:HE1	1.81	0.46
1:A:170:VAL:O	1:A:170:VAL:HG23	2.15	0.46
3:D:563:PRO:CG	3:D:566:ILE:HD12	2.46	0.46
3:D:644:LEU:O	3:D:721:VAL:HG22	2.16	0.46
3:N:701:LEU:HD21	3:N:763:MET:SD	2.55	0.46
2:H:1052:MET:HA	2:H:1052:MET:HE2	1.96	0.46
2:C:606:VAL:HG11	2:C:644:VAL:C	2.36	0.46
2:H:679:PHE:O	2:H:681:GLY:N	2.48	0.46
3:D:684:LYS:CD	3:D:684:LYS:H	2.28	0.46
5:Z:6:LYS:O	5:Z:7:LEU:HD23	2.16	0.46
3:D:162:ARG:HH21	3:D:452:ILE:CG2	2.29	0.46
3:N:105:VAL:HG22	3:N:112:ILE:CG2	2.45	0.46
3:N:465:LEU:HD22	3:N:509:PRO:O	2.16	0.46
2:M:199:VAL:HG11	2:M:235:LEU:HG	1.97	0.46
2:C:848:VAL:HG23	3:D:740:PHE:C	2.36	0.46
2:H:467:ILE:HG22	2:H:467:ILE:O	2.14	0.46
3:I:352:ASN:O	3:I:368:VAL:HG13	2.16	0.46
3:N:1381:VAL:HG13	3:N:1398:TRP:HH2	1.79	0.46
4:O:70:THR:HG21	4:O:72:ARG:HE	1.80	0.46
3:N:345:TYR:CE1	3:N:377:VAL:HG13	2.51	0.46
4:O:36:LYS:NZ	4:O:45:ARG:HH22	2.14	0.46
3:D:1470:ARG:HG2	3:D:1470:ARG:HH11	1.79	0.46
2:M:890:LEU:HG	2:M:914:ILE:HD12	1.97	0.46
2:H:1107:ASN:ND2	3:I:2:LYS:HZ1	2.14	0.46
3:D:1492:LEU:HD13	3:D:1492:LEU:C	2.36	0.46
2:C:367:LEU:CB	2:C:371:LYS:HG2	2.46	0.46
3:D:128:TYR:HE2	3:D:458:ALA:HA	1.79	0.46
3:N:850:LEU:O	3:N:853:VAL:HB	2.16	0.46
3:N:787:LEU:HD11	3:N:947:ILE:HG12	1.97	0.46
1:G:176:ARG:NH2	3:I:884:ARG:NH1	2.64	0.46
2:M:704:HIS:ND1	2:M:831:ARG:NH1	2.64	0.46
2:C:637:LEU:HD23	2:C:659:PRO:HG2	1.98	0.46
2:H:479:VAL:HG22	2:H:506:ASN:HA	1.98	0.46
3:N:964:LEU:HD23	3:N:964:LEU:C	2.36	0.46
5:X:76:GLU:O	5:X:76:GLU:HG2	2.15	0.46
3:I:668:PRO:HD2	3:I:672:ALA:HB1	1.96	0.46
2:C:104:ASP:O	2:C:105:THR:C	2.54	0.46
3:N:1458:GLU:O	3:N:1460:ILE:N	2.46	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:582:GLY:N	2:M:584:GLU:OE2	2.48	0.46
2:M:873:PRO:O	2:M:876:VAL:HG23	2.16	0.46
2:M:756:VAL:HG22	2:M:790:LEU:CB	2.36	0.46
2:C:270:GLY:O	2:C:274:ARG:HB2	2.15	0.46
2:C:168:ARG:O	2:C:263:ASP:HA	2.15	0.46
3:D:539:ASP:HB3	3:D:600:LEU:HB3	1.97	0.46
1:F:36:LEU:HD12	1:F:195:LEU:HD23	1.98	0.46
3:N:702:LEU:O	3:N:713:ILE:HA	2.15	0.46
2:M:333:ILE:HD11	2:M:410:ILE:HG21	1.98	0.46
3:D:1330:ILE:CG2	3:D:1331:ASP:H	2.29	0.46
2:C:572:ILE:HD13	2:C:573:ARG:N	2.17	0.46
3:D:1211:MET:HE1	3:D:1213:ARG:HB3	1.98	0.46
2:H:184:MET:HB2	2:H:193:LEU:CG	2.45	0.46
3:N:736:PHE:O	3:N:738:ALA:N	2.49	0.46
1:B:79:ILE:HA	1:B:82:LEU:HG	1.98	0.46
3:N:165:LYS:HZ2	3:N:397:LYS:HG2	1.81	0.46
2:H:325:ILE:H	2:H:325:ILE:HD12	1.81	0.46
3:D:719:VAL:HG13	3:D:720:LEU:HD22	1.97	0.46
4:E:51:LEU:O	4:E:53:GLY:N	2.43	0.46
2:H:950:LEU:HD12	2:H:952:LEU:CD2	2.46	0.46
3:N:695:ILE:HG23	3:N:696:HIS:N	2.29	0.46
2:H:578:VAL:N	2:H:671:ASN:ND2	2.64	0.46
2:H:626:ARG:CB	2:H:639:GLN:HE22	2.29	0.46
2:H:145:GLY:HA3	2:H:276:LYS:HG2	1.98	0.46
3:I:1388:ARG:N	3:I:1391:GLU:OE2	2.49	0.46
3:N:1136:LYS:O	3:N:1140:ILE:HG12	2.15	0.46
1:G:100:LEU:HB2	1:G:115:LEU:CD1	2.37	0.46
3:N:484:PRO:HB3	3:N:488:ARG:HE	1.80	0.46
3:N:613:ARG:C	3:N:613:ARG:HD3	2.36	0.46
1:L:99:LEU:HD23	1:L:100:LEU:H	1.81	0.46
2:C:469:THR:OG1	2:C:470:PRO:HD2	2.16	0.46
4:O:80:VAL:HG13	4:O:81:PRO:HD2	1.98	0.46
1:K:26:GLU:OE1	1:K:194:LYS:HG3	2.15	0.46
3:I:892:ASP:OD2	3:I:895:VAL:N	2.48	0.46
3:D:1156:LEU:CD1	3:D:1176:LYS:HE3	2.46	0.46
3:D:470:LEU:H	3:D:470:LEU:CD2	2.27	0.46
2:C:1024:LYS:HG3	2:C:1025:ALA:H	1.81	0.46
3:N:685:ASP:OD1	3:N:685:ASP:N	2.49	0.46
1:F:117:VAL:O	1:F:117:VAL:HG12	2.15	0.46
1:L:172:SER:C	1:L:174:VAL:H	2.18	0.46
3:I:582:LEU:O	3:I:604:THR:HG23	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:68:PHE:C	2:M:69:LEU:HD23	2.37	0.46
3:D:782:SER:O	3:D:786:ILE:HD13	2.16	0.46
3:N:485:SER:O	3:N:489:ARG:HB3	2.16	0.46
2:C:144:PRO:HG2	2:C:165:LEU:HB2	1.97	0.46
3:D:810:GLU:HG3	3:D:811:GLU:N	2.31	0.46
3:D:843:PHE:CE2	3:D:849:ALA:HA	2.50	0.46
3:D:850:LEU:O	3:D:853:VAL:HB	2.15	0.46
2:C:471:TYR:N	2:C:483:VAL:HG13	2.27	0.46
2:C:328:LEU:HB2	2:C:433:THR:HG21	1.98	0.46
3:N:1188:VAL:CG2	3:N:1189:ARG:N	2.79	0.46
2:H:690:ILE:HD13	2:H:691:SER:N	2.31	0.46
2:H:252:LYS:NZ	2:H:255:ALA:CB	2.78	0.46
2:H:139:GLN:HE22	2:H:414:GLY:HA3	1.81	0.46
3:D:563:PRO:CB	3:D:566:ILE:HD12	2.46	0.46
2:H:209:ARG:C	2:H:211:LEU:H	2.18	0.46
3:N:514:LEU:HD21	3:N:578:VAL:CG1	2.46	0.46
3:N:767:HIS:CD2	4:O:2:ALA:HB1	2.51	0.46
1:K:88:ARG:NH1	1:K:88:ARG:HB3	2.24	0.46
2:H:996:LYS:C	2:H:997:LEU:HD22	2.36	0.46
1:B:85:LEU:HB2	1:B:127:LEU:CD1	2.45	0.46
1:K:57:TYR:HB2	1:K:164:ALA:HB2	1.98	0.46
1:A:208:LEU:O	1:A:211:LEU:HB3	2.15	0.46
3:I:1213:ARG:HB2	3:I:1214:PRO:HD2	1.96	0.46
2:H:1000:MET:HG3	2:H:1001:VAL:N	2.25	0.46
3:D:1175:ILE:O	3:D:1179:GLU:HG3	2.16	0.46
2:M:895:TYR:HD1	2:M:991:GLN:OE1	1.99	0.46
3:N:399:ARG:NH1	3:N:430:ASP:HB2	2.31	0.46
1:G:195:LEU:HD13	1:G:195:LEU:C	2.36	0.46
2:C:967:PHE:HD1	2:C:972:VAL:HG12	1.80	0.46
1:B:206:THR:OG1	1:B:207:PRO:HD2	2.16	0.46
2:C:71:TYR:CD2	2:C:71:TYR:N	2.84	0.46
3:I:1152:GLU:HB2	3:I:1160:LEU:O	2.15	0.46
2:C:550:LEU:CG	3:D:1070:TYR:HE1	2.28	0.46
2:H:851:LYS:NZ	2:H:851:LYS:HB3	2.31	0.46
2:H:809:GLY:O	2:H:811:PRO:HD3	2.16	0.46
3:D:1063:GLU:CD	3:D:1064:GLY:H	2.19	0.46
2:C:877:PRO:HG2	2:C:878:SER:H	1.81	0.45
2:C:274:ARG:NH1	2:C:285:LEU:N	2.64	0.45
3:D:45:PHE:HD1	3:D:522:PRO:HB3	1.80	0.45
2:H:674:VAL:HG23	2:H:871:LEU:HD23	1.98	0.45
3:I:729:HIS:HB3	3:I:732:VAL:HG22	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:J:47:LYS:C	4:J:54:LEU:HB3	2.36	0.45
2:C:750:LYS:HG3	2:C:751:PRO:CD	2.40	0.45
3:I:453:ASP:O	3:I:454:ALA:HB2	2.16	0.45
2:M:204:GLN:HB3	2:M:222:MET:HE3	1.98	0.45
2:H:139:GLN:O	2:H:333:ILE:HD13	2.16	0.45
3:N:547:LEU:HD11	3:N:578:VAL:HG22	1.97	0.45
1:L:132:LEU:HD23	1:L:136:GLY:O	2.16	0.45
3:I:800:LYS:HD3	3:I:803:GLY:N	2.30	0.45
3:I:806:PHE:N	3:I:832:ARG:HG3	2.30	0.45
1:B:85:LEU:HA	1:B:124:ASN:ND2	2.29	0.45
2:H:136:ILE:HG22	2:H:136:ILE:O	2.14	0.45
3:I:1379:VAL:CG1	3:I:1395:LEU:HG	2.46	0.45
3:I:1118:ILE:HD13	3:I:1188:VAL:O	2.16	0.45
3:N:1035:ILE:HA	3:N:1038:LEU:CD1	2.43	0.45
2:H:477:GLY:HA2	2:H:508:ILE:HD12	1.97	0.45
2:M:1048:THR:HA	3:N:755:ALA:HB1	1.97	0.45
2:M:500:ASN:O	2:M:501:THR:C	2.53	0.45
2:C:603:VAL:HG21	2:C:647:GLN:HB3	1.98	0.45
3:N:1256:LEU:HA	3:N:1259:VAL:HG23	1.97	0.45
2:M:428:ARG:HH11	2:M:428:ARG:HG2	1.80	0.45
3:I:1240:THR:O	3:I:1241:PHE:C	2.54	0.45
5:Y:53:ARG:O	5:Y:56:TRP:HB3	2.16	0.45
3:I:1336:LEU:HD11	3:I:1341:PRO:HG3	1.98	0.45
3:N:669:ASN:O	3:N:672:ALA:HB3	2.16	0.45
3:N:1485:GLN:CB	4:O:79:LEU:HB2	2.46	0.45
3:I:679:ARG:HG2	3:I:679:ARG:O	2.17	0.45
1:L:206:THR:HG22	1:L:209:GLU:CD	2.36	0.45
3:D:145:VAL:CG2	3:D:146:PRO:HD2	2.46	0.45
3:I:615:ARG:O	3:I:619:LEU:HG	2.16	0.45
2:M:487:THR:HG22	2:M:489:THR:H	1.81	0.45
2:H:949:LYS:HD2	3:I:796:ARG:NH2	2.32	0.45
2:H:1087:VAL:HG13	2:H:1088:LEU:N	2.31	0.45
2:M:65:VAL:C	2:M:100:LEU:HD22	2.37	0.45
2:M:69:LEU:HG	2:M:98:LEU:HA	1.98	0.45
3:D:781:PRO:HB2	3:D:786:ILE:HD11	1.98	0.45
2:H:69:LEU:HD11	2:H:99:GLN:HG2	1.98	0.45
2:C:483:VAL:CG1	2:C:484:VAL:N	2.79	0.45
3:D:540:LEU:N	3:D:540:LEU:HD13	2.29	0.45
2:C:328:LEU:CD1	2:C:328:LEU:H	2.28	0.45
2:H:1042:ALA:N	3:I:1223:ILE:HD13	2.31	0.45
4:J:49:GLN:O	4:J:50:THR:C	2.53	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:737:LEU:HD23	2:H:742:VAL:O	2.15	0.45
1:B:56:VAL:HG21	1:B:82:LEU:HD12	1.98	0.45
3:I:805:GLU:H	3:I:805:GLU:CD	2.19	0.45
3:I:871:LYS:CD	3:I:871:LYS:N	2.79	0.45
1:F:57:TYR:HB3	1:F:141:GLU:HG2	1.97	0.45
2:H:839:LEU:HB2	2:H:995:MET:O	2.16	0.45
2:M:1060:ILE:HG23	2:M:1061:GLU:N	2.32	0.45
2:M:574:ALA:HB1	2:M:667:ALA:HB3	1.97	0.45
3:D:1106:VAL:CG1	3:D:1107:VAL:N	2.78	0.45
3:I:123:LEU:HD11	3:I:152:LEU:HD11	1.98	0.45
2:M:859:PRO:O	2:M:867:VAL:HG13	2.15	0.45
2:H:435:TYR:HA	3:I:1071:PHE:CE2	2.51	0.45
3:I:911:LEU:O	3:I:912:LYS:C	2.54	0.45
2:C:551:GLU:OE2	2:C:910:LYS:NZ	2.49	0.45
2:C:1032:PHE:O	2:C:1036:GLU:HB2	2.17	0.45
3:I:1295:GLU:HB3	3:I:1300:SER:CB	2.41	0.45
2:H:376:ARG:CB	2:H:377:PRO:HD3	2.46	0.45
2:H:443:THR:HG21	3:I:1078:ARG:CD	2.46	0.45
2:M:1103:ASP:CG	2:M:1104:GLU:H	2.19	0.45
2:H:926:PHE:HA	2:H:929:ARG:HG3	1.97	0.45
3:D:1401:GLU:OE2	3:D:1402:ALA:N	2.49	0.45
2:C:1063:ARG:HD2	2:C:1064:ASN:N	2.31	0.45
2:H:523:ILE:O	2:H:523:ILE:HG23	2.17	0.45
1:A:123:MET:C	1:A:125:PRO:HD3	2.36	0.45
3:D:585:GLY:C	3:D:587:ARG:H	2.20	0.45
2:M:516:ARG:CZ	2:M:516:ARG:HB3	2.46	0.45
1:A:179:PHE:HB3	1:A:197:LEU:HG	1.98	0.45
2:C:1053:LEU:O	2:C:1053:LEU:HG	2.15	0.45
2:H:382:ILE:N	2:H:382:ILE:HD12	2.31	0.45
2:H:177:GLU:OE2	2:H:179:ASN:HB2	2.15	0.45
3:I:860:LEU:CG	3:I:861:GLN:HE22	2.29	0.45
1:G:57:TYR:C	1:G:58:ILE:HD13	2.36	0.45
1:L:149:GLY:O	1:L:171:PHE:HD2	1.99	0.45
1:L:43:ILE:HG22	1:L:47:SER:HB2	1.98	0.45
3:I:32:ILE:CD1	3:I:39:PRO:HG3	2.47	0.45
3:D:970:LYS:HG3	3:D:971:LEU:N	2.30	0.45
3:D:808:THR:OG1	3:D:809:PRO:HD3	2.16	0.45
3:I:947:ILE:O	3:I:947:ILE:CD1	2.64	0.45
1:A:168:ASP:OD2	2:C:832:LYS:NZ	2.49	0.45
3:D:1355:VAL:O	3:D:1359:GLN:HG2	2.16	0.45
1:B:80:LEU:HD23	3:D:867:ARG:NH2	2.31	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:991:GLN:HE21	3:N:991:GLN:CA	2.25	0.45
2:C:95:TYR:HA	2:C:114:PHE:HA	1.98	0.45
4:O:48:MET:CB	4:O:54:LEU:HB2	2.44	0.45
3:I:843:PHE:O	3:I:866:VAL:HA	2.16	0.45
2:C:139:GLN:HE22	2:C:415:PRO:HD2	1.80	0.45
3:D:1152:GLU:HG3	3:D:1160:LEU:O	2.16	0.45
1:B:97:VAL:HG11	1:B:120:VAL:HG11	1.99	0.45
2:M:328:LEU:HD21	2:M:438:ILE:HD11	1.98	0.45
2:M:477:GLY:HA2	2:M:508:ILE:CD1	2.46	0.45
2:C:137:VAL:O	2:C:391:LEU:HD21	2.17	0.45
3:D:1200:VAL:CG1	3:D:1201:CYS:N	2.79	0.45
3:D:213:VAL:HG12	3:D:214:GLU:H	1.80	0.45
2:M:39:ARG:HH21	2:M:45:GLN:NE2	2.15	0.45
2:H:396:ASP:O	2:H:403:SER:HA	2.17	0.45
1:B:218:LEU:HD11	1:B:222:LEU:HD11	1.98	0.45
3:N:1346:ARG:HH11	3:N:1346:ARG:HG3	1.80	0.45
1:L:54:THR:HG23	1:L:156:HIS:CE1	2.51	0.45
2:C:568:ALA:HB2	2:C:995:MET:HE1	1.98	0.45
3:I:1372:VAL:HA	3:I:1375:MET:CE	2.46	0.45
2:H:1065:ALA:C	2:H:1077:PRO:HG2	2.36	0.45
2:C:87:ASP:HA	2:C:131:GLY:CA	2.43	0.45
3:I:982:PHE:HA	5:Y:125:MET:SD	2.57	0.45
2:H:795:GLY:O	2:H:796:GLU:HG2	2.16	0.45
2:C:405:ARG:NH1	2:C:563:ASN:HA	2.31	0.45
3:I:1441:GLN:HG2	3:I:1442:ASN:N	2.31	0.45
3:I:1123:PHE:CD2	3:I:1184:GLN:HG3	2.51	0.45
2:M:448:ASN:HA	2:M:448:ASN:HD22	1.56	0.45
2:M:896:PHE:CZ	2:M:925:TYR:HB2	2.51	0.45
3:I:789:LEU:CD1	3:I:934:LEU:HD22	2.45	0.45
3:I:1434:TRP:C	3:I:1434:TRP:CD1	2.89	0.45
3:D:783:ARG:HE	3:D:1029:ARG:CD	2.28	0.45
2:C:163:ILE:HG12	2:C:163:ILE:O	2.15	0.45
3:D:794:GLN:HG2	3:D:1017:PHE:HE2	1.80	0.45
2:H:878:SER:HA	3:I:1034:GLN:NE2	2.30	0.45
3:N:1107:VAL:O	3:N:1108:ARG:HB3	2.16	0.45
3:D:1330:ILE:HD12	3:D:1330:ILE:N	2.32	0.45
3:I:199:LEU:HD23	3:I:200:ASP:H	1.79	0.45
2:H:710:ILE:HB	2:H:790:LEU:CD2	2.46	0.45
2:H:754:ILE:HA	2:H:791:ARG:HA	1.99	0.45
1:A:39:PRO:O	1:A:43:ILE:HG13	2.17	0.45
2:C:50:GLU:CD	2:C:345:ARG:HD2	2.36	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:307:LEU:HD11	2:H:311:PHE:HE2	1.81	0.45
2:C:94:LEU:HD22	2:C:95:TYR:O	2.17	0.45
3:N:514:LEU:HD13	3:N:517:VAL:HG22	1.97	0.45
3:I:804:LEU:CD2	3:I:829:VAL:HB	2.46	0.45
1:A:85:LEU:HD12	1:A:124:ASN:ND2	2.31	0.45
2:C:333:ILE:HG23	2:C:334:ARG:N	2.30	0.45
1:F:79:ILE:CG1	1:F:80:LEU:N	2.79	0.45
2:H:569:VAL:O	2:H:571:LEU:N	2.49	0.45
2:M:328:LEU:C	2:M:330:ASN:N	2.69	0.45
2:H:91:GLN:HB3	2:H:117:HIS:CB	2.46	0.45
2:H:73:LEU:HB3	2:H:94:LEU:HA	1.99	0.45
2:C:127:PHE:CD1	2:C:136:ILE:HD13	2.51	0.45
3:D:379:ALA:O	3:D:380:GLU:HG3	2.15	0.45
2:M:1052:MET:SD	2:M:1056:LYS:HD2	2.57	0.45
3:D:137:PRO:HD2	3:D:453:ASP:O	2.17	0.45
2:C:1019:GLN:NE2	2:C:1057:SER:OG	2.43	0.45
2:H:472:ARG:HA	2:H:483:VAL:HG22	1.99	0.45
3:D:141:ILE:CG2	3:D:142:LEU:N	2.79	0.45
1:L:112:ARG:HB3	1:L:125:PRO:HB3	1.99	0.45
3:N:1192:LEU:HD11	3:N:1369:GLU:HG2	1.99	0.45
1:G:206:THR:HG23	1:G:209:GLU:HG3	1.98	0.45
1:B:227:ASN:ND2	1:B:227:ASN:H	2.10	0.45
2:H:1090:LYS:HG2	2:H:1112:PHE:HZ	1.81	0.45
3:D:987:GLU:OE1	5:X:120:SER:HB2	2.17	0.45
2:C:1045:ALA:HB2	3:D:763:MET:SD	2.57	0.45
2:M:585:GLU:HG2	2:M:665:PHE:CE2	2.51	0.45
3:D:1464:GLU:HA	3:D:1467:ILE:HD11	1.99	0.45
3:D:1467:ILE:HG13	3:D:1467:ILE:H	1.44	0.45
2:H:926:PHE:HD1	2:H:929:ARG:HG3	1.80	0.45
4:J:40:LEU:HD11	4:J:46:PRO:HD3	1.97	0.45
2:C:1078:GLU:CD	2:C:1078:GLU:N	2.70	0.45
3:N:1129:THR:O	3:N:1131:SER:N	2.49	0.45
5:Y:42:LEU:O	5:Y:44:GLU:N	2.49	0.45
2:M:862:PRO:CG	2:M:973:VAL:HB	2.47	0.45
3:I:767:HIS:HE1	4:J:3:GLU:H	1.64	0.45
2:M:1037:VAL:O	2:M:1040:LEU:N	2.49	0.45
3:D:863:VAL:HA	3:D:875:THR:O	2.17	0.45
3:I:718:PRO:O	3:I:719:VAL:CG2	2.65	0.45
2:M:182:VAL:HB	2:M:193:LEU:HD22	1.99	0.45
3:D:1256:LEU:N	3:D:1257:PRO:HD2	2.32	0.45
2:H:173:ASP:O	2:H:184:MET:HA	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:757:GLY:HA2	2:H:789:SER:HB2	1.99	0.45
1:A:43:ILE:HG13	1:A:43:ILE:H	1.40	0.45
3:I:185:VAL:HG13	3:I:189:GLN:OE1	2.17	0.45
1:L:103:ALA:H	1:L:138:LEU:HD13	1.80	0.45
3:I:804:LEU:HD23	3:I:829:VAL:HG12	1.98	0.45
3:N:637:LEU:HD11	3:N:641:GLN:HB2	1.97	0.45
2:H:1063:ARG:HD3	2:H:1063:ARG:C	2.36	0.45
2:C:139:GLN:HA	2:C:411:SER:O	2.17	0.45
2:H:701:THR:HG23	2:H:832:LYS:CA	2.38	0.45
2:H:688:ILE:CD1	2:H:847:GLY:HA3	2.46	0.45
3:D:1148:VAL:H	3:D:1188:VAL:HG23	1.82	0.45
3:D:1101:VAL:HG21	3:D:1424:VAL:HG23	1.98	0.45
1:L:80:LEU:HD23	3:N:844:ALA:HA	1.99	0.45
3:D:792:ILE:CG2	3:D:793:THR:N	2.79	0.45
3:N:519:VAL:HG13	3:N:544:TYR:CZ	2.50	0.45
3:N:1360:GLY:CA	5:Z:37:LEU:HD12	2.47	0.45
3:D:1167:SER:H	3:D:1170:ASP:CG	2.20	0.45
2:H:1086:ARG:HG3	2:H:1086:ARG:HH11	1.81	0.45
3:I:407:VAL:HG11	3:I:437:VAL:HG13	1.99	0.45
3:D:893:GLU:O	3:D:896:ALA:HB3	2.17	0.45
3:N:200:ASP:CG	3:N:201:GLY:N	2.69	0.45
3:N:1275:SER:HB3	3:N:1325:LEU:CD2	2.45	0.45
2:C:971:LYS:HB3	2:C:986:PRO:HB2	1.98	0.45
3:D:977:ALA:HB1	3:D:983:LEU:HD21	1.99	0.45
3:D:964:LEU:HG	3:D:1058:ARG:HH22	1.81	0.45
1:L:179:PHE:HB3	1:L:197:LEU:HD21	1.98	0.45
2:M:54:ILE:HG12	2:M:64:LEU:CD2	2.47	0.45
3:N:875:THR:OG1	3:N:879:ARG:HG3	2.16	0.45
3:N:793:THR:HB	3:N:879:ARG:NH1	2.31	0.45
2:M:1089:VAL:HG13	2:M:1099:VAL:CG1	2.47	0.45
3:D:794:GLN:HG2	3:D:1017:PHE:CE2	2.51	0.45
2:M:1044:GLY:HA3	4:O:17:TYR:HE1	1.81	0.45
3:N:1475:GLY:HA2	4:O:17:TYR:CE1	2.52	0.45
2:M:144:PRO:HA	2:M:163:ILE:O	2.16	0.45
2:M:257:VAL:HG12	2:M:263:ASP:OD1	2.16	0.45
2:H:184:MET:HB2	2:H:193:LEU:CD1	2.47	0.45
1:B:165:ILE:H	1:B:165:ILE:HD13	1.79	0.45
2:H:140:ILE:O	2:H:141:HIS:HB3	2.17	0.45
2:H:144:PRO:HB2	2:H:265:ARG:CD	2.47	0.45
2:C:44:ILE:CD1	2:C:44:ILE:N	2.79	0.45
3:N:165:LYS:NZ	3:N:397:LYS:HG2	2.32	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Z:114:ASP:OD2	5:Z:118:LYS:HE2	2.17	0.45
2:C:73:LEU:CB	2:C:93:PRO:O	2.61	0.45
3:D:473:LEU:N	3:D:473:LEU:HD12	2.30	0.45
3:D:474:GLU:HG3	3:D:496:LEU:HD11	1.99	0.45
3:I:800:LYS:HE2	3:I:830:ALA:CB	2.46	0.45
5:X:37:LEU:CD2	5:X:48:TYR:HE2	2.26	0.45
1:F:74:ASP:OD1	1:F:76:VAL:HG23	2.17	0.45
2:H:832:LYS:O	2:H:833:LEU:C	2.54	0.45
3:N:1422:MET:HB2	3:N:1426:LYS:HG2	1.99	0.45
2:M:906:PHE:CE1	3:N:1067:VAL:HA	2.50	0.45
3:D:877:PRO:HA	3:D:880:ILE:CG2	2.45	0.45
3:N:84:ILE:HA	3:N:87:ARG:HG2	1.99	0.45
2:M:474:VAL:HG13	2:M:529:VAL:O	2.17	0.45
1:A:59:GLU:OE1	1:A:59:GLU:HA	2.16	0.45
2:M:690:ILE:HD12	2:M:868:ASP:O	2.17	0.45
3:N:168:THR:CG2	3:N:394:LEU:HD22	2.41	0.45
3:N:550:ARG:NH1	3:N:573:MET:HB3	2.32	0.45
2:H:113:VAL:CG1	2:H:373:VAL:HG11	2.47	0.45
2:M:73:LEU:C	2:M:73:LEU:HD13	2.36	0.45
3:N:1397:LYS:O	3:N:1400:VAL:HB	2.17	0.45
4:O:41:GLU:N	4:O:42:PRO:CD	2.80	0.45
5:Z:138:LEU:O	5:Z:148:GLU:HA	2.16	0.45
3:I:1347:TYR:O	3:I:1351:GLU:HB2	2.16	0.45
2:C:367:LEU:HB2	2:C:371:LYS:CB	2.47	0.45
2:H:592:LEU:O	2:H:592:LEU:HD22	2.17	0.45
3:I:1307:LYS:CD	3:I:1307:LYS:H	2.30	0.45
2:H:647:GLN:O	2:H:649:VAL:HG13	2.16	0.45
3:I:541:ASN:O	3:I:542:ASP:C	2.55	0.45
5:X:81:GLU:OE2	5:X:134:VAL:HG23	2.17	0.45
3:I:785:ILE:HG22	3:I:789:LEU:HD11	1.98	0.45
2:H:37:GLU:O	2:H:39:ARG:HG3	2.17	0.45
2:H:47:ALA:HB1	2:H:348:LEU:HD22	1.98	0.45
3:N:941:PHE:O	3:N:943:THR:N	2.50	0.45
3:N:546:ARG:HH11	3:N:546:ARG:CB	2.07	0.45
2:C:197:LEU:HA	2:C:200:LEU:HD12	1.99	0.45
3:D:827:ILE:H	3:D:827:ILE:HD12	1.82	0.45
2:C:1090:LYS:HD2	3:D:90:MET:SD	2.56	0.45
3:D:89:ARG:C	3:D:521:PRO:HG3	2.36	0.45
3:N:540:LEU:O	3:N:541:ASN:C	2.54	0.45
2:C:431:HIS:HB3	2:C:434:HIS:CD2	2.51	0.45
1:F:177:VAL:CG1	1:F:199:ILE:HD12	2.44	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:185:ARG:NH1	3:I:692:GLU:OE2	2.49	0.45
1:A:54:THR:CG2	1:A:158:ILE:HG12	2.46	0.45
2:M:151:ASP:OD2	2:M:152:PRO:HD2	2.17	0.45
2:M:175:GLU:HB3	2:M:183:SER:HB3	1.98	0.45
1:B:42:ARG:HH11	1:B:42:ARG:HG2	1.82	0.45
1:B:80:LEU:CG	3:D:844:ALA:HB2	2.45	0.45
2:C:355:VAL:HG23	2:C:372:LEU:CG	2.46	0.45
3:N:166:GLN:NE2	3:N:396:VAL:HG11	2.31	0.45
4:O:73:LEU:H	4:O:73:LEU:CD2	2.19	0.45
2:H:1013:TYR:CE1	2:H:1020:PRO:HG3	2.49	0.45
3:N:1481:VAL:O	3:N:1483:PHE:N	2.50	0.45
2:H:839:LEU:N	2:H:839:LEU:CD2	2.79	0.45
2:M:848:VAL:HG23	3:N:740:PHE:C	2.36	0.45
3:D:1108:ARG:CG	3:D:1108:ARG:O	2.63	0.45
2:H:524:VAL:HG12	2:H:525:SER:O	2.17	0.45
3:I:1394:VAL:HG12	3:I:1396:GLU:H	1.82	0.45
2:M:199:VAL:HG21	2:M:238:LEU:HD12	1.99	0.45
3:I:675:ARG:NH1	3:I:675:ARG:HG3	2.31	0.45
2:M:527:GLU:HG3	2:M:528:GLU:HG3	1.99	0.45
3:D:1283:ILE:HD12	3:D:1315:ASP:OD2	2.17	0.45
1:B:108:GLU:OE2	1:B:110:LYS:HG3	2.16	0.45
2:H:292:ARG:HG2	2:H:299:LYS:HE2	1.98	0.45
3:I:1344:VAL:O	3:I:1348:LEU:HD22	2.16	0.45
3:I:1348:LEU:N	3:I:1348:LEU:HD13	2.32	0.45
2:C:798:GLY:HA3	2:C:828:ALA:O	2.17	0.45
3:D:639:LEU:CD1	3:D:766:ALA:HB2	2.47	0.45
1:L:195:LEU:HD12	1:L:196:THR:N	2.31	0.45
3:I:16:GLU:HA	3:I:19:ARG:HH12	1.81	0.45
3:I:1127:GLU:HG2	3:I:1128:VAL:N	2.32	0.45
2:M:720:GLU:HA	2:M:759:THR:O	2.16	0.45
2:H:243:ARG:H	2:H:243:ARG:CD	2.30	0.45
2:C:5:ARG:HB2	2:C:5:ARG:NH1	2.31	0.45
1:F:137:ARG:HG3	1:F:137:ARG:HH11	1.81	0.45
3:N:426:LYS:O	3:N:428:LYS:HG3	2.16	0.45
3:I:1084:THR:OG1	5:Y:43:ARG:HD3	2.16	0.45
5:Y:44:GLU:O	5:Y:45:ASN:HB3	2.17	0.45
2:H:1096:ALA:O	2:H:1097:LEU:C	2.55	0.45
3:D:1047:LYS:NZ	3:D:1053:PHE:HA	2.32	0.45
3:N:12:LEU:HD23	3:N:507:ASN:CB	2.45	0.45
3:D:873:LEU:HD23	3:D:874:GLU:H	1.82	0.45
3:N:1115:THR:HG22	3:N:1115:THR:O	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:854:PRO:HG2	2:H:857:ASP:OD1	2.17	0.45
3:I:704:ARG:HH11	3:I:738:ALA:CB	2.30	0.45
2:M:267:TYR:HD2	2:M:267:TYR:N	2.15	0.45
2:C:572:ILE:HG12	2:C:573:ARG:HG3	1.99	0.45
2:H:705:ILE:CG2	2:H:706:GLU:N	2.80	0.45
2:H:332:ARG:NH1	2:H:338:GLU:CD	2.71	0.45
3:D:1381:VAL:HA	3:D:1398:TRP:HH2	1.82	0.45
3:I:185:VAL:HG13	3:I:189:GLN:CD	2.36	0.45
3:D:710:ARG:C	3:D:712:GLY:H	2.20	0.45
3:D:1148:VAL:HG13	3:D:1163:GLY:HA2	1.98	0.45
3:D:1148:VAL:HG21	3:D:1203:LYS:HA	1.96	0.45
2:H:135:VAL:HG11	2:H:406:HIS:O	2.17	0.45
2:C:744:ARG:CG	2:C:747:ALA:HB2	2.37	0.45
2:M:470:PRO:HB2	2:M:534:VAL:HG21	1.99	0.45
3:D:355:VAL:HG13	3:D:356:PRO:HD2	1.99	0.45
1:A:206:THR:N	1:A:209:GLU:HG3	2.30	0.45
3:I:116:LEU:C	3:I:118:LEU:H	2.20	0.45
2:C:808:ARG:O	2:C:810:ASP:N	2.50	0.45
3:N:1034:GLN:HA	3:N:1037:GLN:NE2	2.23	0.45
2:C:1100:GLN:NE2	2:C:1100:GLN:HA	2.31	0.45
2:M:129:ILE:HD13	2:M:134:ARG:CG	2.43	0.45
2:H:100:LEU:O	2:H:101:ILE:HD13	2.16	0.45
3:D:1283:ILE:HG23	3:D:1292:VAL:HG22	1.98	0.45
1:K:70:GLY:H	2:M:607:ASP:CG	2.20	0.45
2:M:1066:ALA:N	2:M:1077:PRO:HG2	2.31	0.45
5:X:115:THR:CB	5:X:116:PRO:CD	2.91	0.45
2:C:937:ASP:CB	2:C:940:GLU:HG3	2.47	0.45
2:C:944:LEU:O	2:C:947:ALA:HB3	2.17	0.45
5:Z:93:ASP:O	5:Z:97:GLY:N	2.47	0.45
5:Z:136:ASP:O	5:Z:150:ARG:HA	2.17	0.45
2:C:692:GLU:HB3	2:C:854:PRO:HA	1.99	0.45
3:D:951:ILE:HG12	3:D:951:ILE:O	2.17	0.45
3:D:447:VAL:HG13	3:D:447:VAL:O	2.17	0.45
5:Z:62:ILE:HG22	5:Z:63:ASP:N	2.31	0.45
2:H:714:ASP:OD2	2:H:820:ARG:HD3	2.17	0.45
2:H:607:ASP:O	2:H:609:ASN:N	2.49	0.45
3:N:811:GLU:O	3:N:815:ALA:N	2.47	0.45
2:M:404:LEU:HD22	2:M:591:SER:HB2	1.99	0.45
2:M:186:VAL:O	2:M:186:VAL:HG23	2.17	0.45
5:Y:127:LYS:O	5:Y:127:LYS:HD3	2.16	0.45
2:M:668:LEU:HD12	2:M:668:LEU:N	2.27	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:892:LEU:CD1	2:C:989:VAL:HG23	2.46	0.45
2:M:1084:SER:O	2:M:1087:VAL:HG12	2.16	0.45
2:H:683:ASN:CA	2:H:687:ALA:HB3	2.45	0.45
3:I:956:ILE:HG12	3:I:1039:CYS:O	2.17	0.45
3:I:705:ALA:CB	3:I:706:PRO:CD	2.91	0.45
2:M:165:LEU:HB3	2:M:265:ARG:NH1	2.32	0.45
1:G:52:ALA:CB	1:G:170:VAL:H	2.27	0.45
2:H:282:GLY:CA	2:H:305:PRO:HB3	2.47	0.45
4:O:6:ILE:O	4:O:9:LEU:HB2	2.17	0.45
1:A:124:ASN:ND2	1:A:127:LEU:HB2	2.32	0.45
2:C:722:ILE:HG22	2:C:821:GLU:OE1	2.16	0.45
1:B:51:THR:HG21	1:B:87:VAL:HG22	1.99	0.45
2:M:457:ALA:HB3	2:M:538:GLN:HA	1.98	0.45
2:M:479:VAL:HG23	2:M:479:VAL:O	2.15	0.45
2:M:726:ILE:CG1	2:M:734:LEU:HD21	2.47	0.45
2:C:498:GLN:OE1	2:C:516:ARG:NH2	2.50	0.45
3:I:366:LYS:NZ	3:I:378:ILE:HD12	2.32	0.45
1:F:221:HIS:HA	1:F:224:TYR:HD2	1.81	0.45
2:H:339:LEU:HB3	2:H:385:PHE:CZ	2.51	0.45
2:C:1031:ARG:HH21	3:D:621:LYS:HZ2	1.60	0.45
2:C:1037:VAL:HG13	2:C:1049:LEU:HD11	1.98	0.45
2:H:395:LYS:HG2	2:H:397:GLU:CG	2.43	0.45
3:N:1488:ASP:O	3:N:1491:THR:N	2.50	0.45
1:B:71:VAL:HG22	1:B:132:LEU:CD2	2.47	0.45
4:E:41:GLU:N	4:E:42:PRO:CD	2.79	0.45
1:L:143:ARG:HD3	1:L:160:ASP:OD1	2.17	0.45
2:H:861:LEU:HD22	2:H:863:ASP:OD1	2.16	0.45
2:M:325:ILE:HD12	2:M:325:ILE:N	2.31	0.45
3:N:850:LEU:N	3:N:850:LEU:HD12	2.31	0.45
3:N:1283:ILE:CG2	3:N:1292:VAL:HG22	2.47	0.45
2:M:1035:MET:O	2:M:1038:TRP:HB2	2.16	0.45
3:D:475:LYS:O	3:D:479:GLU:HG2	2.16	0.45
3:N:415:VAL:HG12	3:N:416:ALA:N	2.31	0.45
3:I:1291:SER:HB2	3:I:1302:GLU:OE2	2.17	0.45
5:X:13:GLU:HG2	5:X:17:GLN:NE2	2.32	0.45
5:Y:24:GLU:O	5:Y:27:GLN:HG2	2.17	0.45
1:G:58:ILE:HG13	1:G:61:VAL:HG21	1.99	0.45
1:K:35:THR:HG23	1:L:42:ARG:HB2	1.98	0.45
2:M:65:VAL:HB	2:M:101:ILE:O	2.17	0.45
2:H:45:GLN:OE1	2:H:49:ARG:NH2	2.50	0.45
2:C:472:ARG:O	2:C:531:PHE:HD1	2.00	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:477:GLY:HA2	2:C:508:ILE:HD11	1.99	0.45
1:G:38:ASN:O	1:G:41:ARG:HB3	2.17	0.45
1:K:79:ILE:HA	1:K:82:LEU:HD12	1.98	0.45
1:K:79:ILE:O	1:K:82:LEU:HB2	2.17	0.45
2:M:333:ILE:HD11	2:M:410:ILE:CG2	2.47	0.45
2:M:257:VAL:HG12	2:M:263:ASP:OD2	2.17	0.45
2:M:294:GLU:OE2	2:M:295:ASP:HB2	2.16	0.45
3:N:982:PHE:HD2	3:N:983:LEU:N	2.15	0.45
3:N:999:THR:O	3:N:1003:VAL:HG13	2.17	0.45
2:C:1095:LEU:HB3	3:D:603:LEU:CD1	2.31	0.45
2:H:211:LEU:HD22	2:H:221:LEU:HD11	1.98	0.45
3:D:148:GLU:O	3:D:150:ARG:N	2.50	0.45
3:I:625:TYR:OH	3:I:655:PRO:HG2	2.17	0.45
2:M:479:VAL:HG11	2:M:503:LEU:CD1	2.45	0.45
3:I:1415:VAL:HG23	3:I:1417:TRP:CE3	2.51	0.45
3:I:477:LEU:CD1	3:I:495:ARG:HG2	2.46	0.45
3:D:1219:GLU:O	3:D:1221:VAL:N	2.46	0.45
3:I:1487:VAL:HG12	3:I:1488:ASP:H	1.81	0.45
3:N:720:LEU:N	3:N:720:LEU:HD22	2.31	0.45
2:C:1077:PRO:O	2:C:1079:PRO:HD3	2.17	0.45
1:F:84:GLU:HG2	1:F:127:LEU:HD13	1.99	0.45
4:O:36:LYS:C	4:O:37:ASN:HD22	2.19	0.45
2:H:1055:LEU:HG	2:H:1079:PRO:HG2	1.98	0.45
3:N:1378:TYR:CE2	3:N:1394:VAL:HG22	2.52	0.45
3:D:8:VAL:HG12	3:D:1434:TRP:CZ2	2.51	0.45
2:M:63:GLY:HA3	2:M:103:LYS:HZ3	1.78	0.45
1:B:14:ARG:HH11	1:B:14:ARG:HG3	1.82	0.45
3:D:1405:GLU:CD	3:D:1413:THR:H	2.19	0.45
2:C:1063:ARG:HD2	2:C:1063:ARG:C	2.38	0.45
2:M:516:ARG:HB3	2:M:516:ARG:NH1	2.32	0.45
5:X:111:ASN:ND2	5:X:113:LEU:HD12	2.32	0.45
2:H:384:GLU:O	2:H:388:ARG:HB2	2.16	0.45
3:N:727:GLN:HB3	3:N:727:GLN:HE21	1.66	0.45
3:N:823:LEU:HD23	3:N:823:LEU:N	2.32	0.45
3:D:459:GLU:O	3:D:462:GLN:HB3	2.17	0.45
3:I:1113:GLY:H	3:I:1195:GLN:HG2	1.82	0.45
2:M:606:VAL:HG23	2:M:606:VAL:O	2.17	0.45
3:D:911:LEU:HD12	3:D:911:LEU:H	1.81	0.44
3:N:1468:LEU:CD2	3:N:1468:LEU:H	2.30	0.44
2:C:331:ARG:HH12	2:C:427:VAL:HG13	1.80	0.44
1:F:199:ILE:HG22	1:F:200:TRP:N	2.32	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:718:PRO:C	3:I:719:VAL:HG23	2.38	0.44
3:I:752:SER:HB3	3:I:755:ALA:CB	2.47	0.44
2:M:165:LEU:HD23	2:M:334:ARG:NH2	2.32	0.44
1:B:53:VAL:HG13	1:B:142:VAL:CG2	2.47	0.44
1:B:199:ILE:HD13	1:B:211:LEU:HD11	1.99	0.44
3:D:167:GLU:OE2	3:D:198:ARG:HD2	2.17	0.44
2:H:281:LEU:HD12	2:H:306:THR:CA	2.47	0.44
3:D:1381:VAL:HG22	3:D:1398:TRP:HH2	1.81	0.44
3:N:974:ILE:CG1	5:Z:113:LEU:HD21	2.47	0.44
3:N:988:ARG:CG	3:N:989:TYR:N	2.80	0.44
3:D:1231:GLU:CB	3:D:1232:PRO:HD3	2.47	0.44
3:D:130:SER:O	3:D:568:ARG:CZ	2.65	0.44
3:D:707:THR:HG23	3:D:712:GLY:HA3	1.99	0.44
1:A:78:ILE:HG12	1:A:78:ILE:H	1.46	0.44
3:D:116:LEU:O	3:D:117:ASP:HB3	2.17	0.44
3:I:105:VAL:O	3:I:106:LYS:HE2	2.17	0.44
3:I:658:LEU:O	3:I:661:MET:HB2	2.17	0.44
3:D:1152:GLU:HB2	3:D:1162:GLU:N	2.32	0.44
5:Z:105:VAL:O	5:Z:121:ASP:N	2.50	0.44
3:N:722:GLU:N	3:N:722:GLU:OE1	2.50	0.44
3:I:1485:GLN:NE2	4:J:79:LEU:N	2.61	0.44
3:I:1189:ARG:HG3	3:I:1189:ARG:HH11	1.82	0.44
3:I:366:LYS:HZ1	3:I:378:ILE:HD12	1.83	0.44
2:H:435:TYR:HA	3:I:1071:PHE:HE2	1.83	0.44
5:Y:154:ILE:O	5:Y:154:ILE:HG22	2.17	0.44
2:H:339:LEU:HD13	2:H:391:LEU:CD1	2.45	0.44
2:C:689:VAL:CG1	2:C:690:ILE:H	2.24	0.44
5:X:102:VAL:HG22	5:X:117:MET:O	2.16	0.44
2:H:404:LEU:O	2:H:407:LYS:HB2	2.17	0.44
2:M:173:ASP:O	2:M:184:MET:HA	2.17	0.44
2:C:630:ARG:HH21	2:C:706:GLU:CA	2.30	0.44
3:N:40:GLU:C	3:N:41:ARG:HG3	2.36	0.44
5:Z:83:ILE:HD12	5:Z:132:HIS:HB2	1.99	0.44
3:N:1117:TYR:CD1	3:N:1117:TYR:C	2.91	0.44
2:M:626:ARG:HH22	2:M:637:LEU:HD13	1.82	0.44
4:E:40:LEU:O	4:E:40:LEU:HD12	2.17	0.44
3:N:709:HIS:CD2	3:N:709:HIS:H	2.35	0.44
1:F:20:TYR:HD2	1:F:21:GLY:H	1.64	0.44
1:F:55:SER:HA	1:F:167:VAL:CG2	2.46	0.44
3:I:50:PHE:HD2	3:I:89:ARG:O	1.99	0.44
2:H:328:LEU:N	2:H:328:LEU:HD12	2.32	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:352:ALA:O	2:H:355:VAL:HG13	2.17	0.44
2:H:38:LYS:O	2:H:40:GLU:N	2.50	0.44
3:D:800:LYS:HZ2	3:D:804:LEU:CD1	2.30	0.44
3:D:525:ARG:HH11	3:D:525:ARG:HG2	1.82	0.44
2:H:876:VAL:HG11	3:I:949:ILE:HG21	1.99	0.44
3:I:702:LEU:HD23	3:I:716:PHE:HD1	1.82	0.44
3:N:890:VAL:HG11	3:N:922:LEU:HD13	1.98	0.44
3:N:922:LEU:CD1	3:N:926:LYS:HB3	2.37	0.44
2:M:334:ARG:HD3	2:M:339:LEU:HD23	1.98	0.44
3:I:417:PRO:HG3	3:I:431:VAL:N	2.32	0.44
3:N:119:SER:H	3:N:123:LEU:CD2	2.30	0.44
2:M:291:ALA:O	2:M:292:ARG:HB3	2.16	0.44
2:H:741:GLY:O	2:H:756:VAL:HA	2.17	0.44
1:B:48:ILE:HB	1:B:172:SER:OG	2.16	0.44
1:B:56:VAL:HG12	1:B:57:TYR:N	2.33	0.44
2:C:50:GLU:CG	2:C:51:THR:N	2.77	0.44
1:K:199:ILE:CD1	1:K:207:PRO:HB3	2.46	0.44
2:C:1094:ALA:HB3	3:D:603:LEU:HD21	1.99	0.44
3:N:101:HIS:CE1	3:N:582:LEU:HD22	2.52	0.44
3:D:661:MET:HA	3:D:666:ILE:HD12	1.98	0.44
3:D:477:LEU:CD1	3:D:499:VAL:HG21	2.47	0.44
3:N:776:GLU:HA	3:N:777:PRO:HD3	1.83	0.44
4:O:47:LYS:C	4:O:54:LEU:CB	2.85	0.44
5:X:42:LEU:HD12	5:X:42:LEU:N	2.32	0.44
3:N:1481:VAL:CG1	4:O:18:ARG:HA	2.43	0.44
3:I:868:TYR:O	3:I:870:GLY:N	2.51	0.44
2:C:334:ARG:NH1	2:C:418:LEU:HD21	2.32	0.44
1:A:20:TYR:HE2	1:A:198:ARG:HB2	1.81	0.44
1:A:206:THR:OG1	1:A:207:PRO:CD	2.65	0.44
3:I:1207:TYR:O	3:I:1208:ASP:O	2.35	0.44
3:N:1041:LEU:HD13	3:N:1057:VAL:O	2.17	0.44
2:C:1100:GLN:HE21	2:C:1100:GLN:HA	1.82	0.44
3:I:401:TYR:C	3:I:443:VAL:HG23	2.37	0.44
5:X:104:VAL:HG21	5:X:129:LEU:HD12	1.99	0.44
2:H:111:ASP:O	2:H:112:GLU:C	2.56	0.44
3:I:631:ILE:HG21	3:I:745:MET:HG3	1.99	0.44
3:N:1256:LEU:HD22	3:N:1259:VAL:CG2	2.47	0.44
3:I:1348:LEU:O	3:I:1351:GLU:N	2.51	0.44
2:C:1087:VAL:HG13	2:C:1088:LEU:N	2.32	0.44
4:E:49:GLN:CG	4:E:50:THR:N	2.72	0.44
1:G:14:ARG:HB3	1:G:22:GLU:HB2	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:37:GLY:HA3	1:B:179:PHE:HD1	1.82	0.44
3:D:542:ASP:O	3:D:546:ARG:HG3	2.17	0.44
2:C:928:LYS:O	2:C:932:GLU:HG3	2.16	0.44
2:M:249:LYS:HD2	2:M:250:ARG:H	1.81	0.44
2:H:1083:GLU:O	2:H:1087:VAL:HG12	2.17	0.44
3:I:1047:LYS:HG2	3:I:1053:PHE:CD1	2.52	0.44
3:I:1065:LEU:HD12	3:I:1069:GLU:OE1	2.17	0.44
2:C:861:LEU:HD12	2:C:862:PRO:CD	2.47	0.44
2:H:44:ILE:O	2:H:47:ALA:HB3	2.18	0.44
2:M:737:LEU:HD22	2:M:743:VAL:HA	1.99	0.44
2:C:273:GLY:O	2:C:274:ARG:C	2.55	0.44
3:N:807:ALA:HB2	3:N:832:ARG:HG3	1.98	0.44
1:K:84:GLU:HB3	1:K:127:LEU:HD11	1.99	0.44
3:I:711:LEU:C	3:I:713:ILE:N	2.71	0.44
2:M:412:ALA:C	2:M:419:THR:OG1	2.56	0.44
3:D:1472:ILE:HA	3:D:1473:PRO:HD3	1.84	0.44
3:I:133:ILE:CD1	3:I:158:TYR:CE2	3.00	0.44
1:A:156:HIS:N	1:A:156:HIS:CD2	2.85	0.44
2:H:238:LEU:O	2:H:241:LEU:HD22	2.17	0.44
2:C:857:ASP:O	2:C:978:ARG:HG2	2.17	0.44
2:H:332:ARG:NH1	2:H:338:GLU:OE1	2.51	0.44
2:H:226:VAL:HG13	2:H:227:PHE:N	2.32	0.44
3:D:700:VAL:HG22	3:D:718:PRO:CG	2.48	0.44
3:N:765:SER:C	3:N:767:HIS:H	2.21	0.44
1:F:136:GLY:O	1:F:138:LEU:N	2.47	0.44
2:M:431:HIS:CE1	2:M:433:THR:HG1	2.35	0.44
1:L:80:LEU:HD23	3:N:867:ARG:NH2	2.32	0.44
3:I:1381:VAL:HG22	3:I:1398:TRP:CH2	2.52	0.44
2:H:217:LEU:N	2:H:217:LEU:HD22	2.20	0.44
3:N:414:ARG:HB2	3:N:414:ARG:NH1	2.23	0.44
3:D:411:THR:OG1	3:D:437:VAL:HB	2.17	0.44
5:X:117:MET:HB3	5:X:117:MET:HE3	1.67	0.44
3:N:1379:VAL:HG12	3:N:1419:PRO:HA	1.99	0.44
4:O:40:LEU:HG	4:O:40:LEU:O	2.17	0.44
2:C:707:ARG:HH21	2:C:824:ARG:NH1	2.15	0.44
2:C:343:GLN:HA	2:C:343:GLN:NE2	2.31	0.44
2:H:5:ARG:HE	2:H:902:ILE:HG21	1.81	0.44
3:D:729:HIS:CE1	3:D:731:LEU:H	2.33	0.44
3:D:1036:ARG:C	3:D:1038:LEU:H	2.20	0.44
3:D:1042:ARG:HH22	3:D:1061:PHE:HE1	1.66	0.44
2:C:226:VAL:HG13	2:C:227:PHE:CD1	2.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:224:TYR:CD1	1:L:9:PRO:HD2	2.53	0.44
2:M:919:ALA:HB1	2:M:964:LYS:HZ1	1.83	0.44
2:C:642:ARG:HG2	2:C:642:ARG:HH11	1.81	0.44
3:D:347:VAL:HG13	3:D:351:MET:HB2	1.99	0.44
2:M:802:ARG:O	2:M:826:TYR:HB2	2.17	0.44
1:K:43:ILE:HD13	1:K:43:ILE:N	2.32	0.44
3:N:799:LYS:HZ3	3:N:800:LYS:C	2.20	0.44
2:C:1046:ALA:HB1	3:D:1471:LEU:CD1	2.48	0.44
3:D:1330:ILE:HB	3:D:1347:TYR:CZ	2.51	0.44
3:D:1240:THR:CG2	3:D:1241:PHE:H	2.00	0.44
3:N:162:ARG:HG3	3:N:163:TYR:N	2.33	0.44
3:D:170:PRO:C	3:D:171:LEU:HD23	2.38	0.44
3:D:642:CYS:HB3	3:D:716:PHE:CG	2.52	0.44
2:H:950:LEU:HD12	2:H:952:LEU:HD21	1.99	0.44
3:N:700:VAL:C	3:N:701:LEU:HD12	2.37	0.44
1:F:101:LEU:HD11	1:F:113:ASP:HB2	1.99	0.44
2:H:692:GLU:O	2:H:694:LEU:N	2.50	0.44
2:C:741:GLY:O	2:C:756:VAL:HA	2.17	0.44
2:M:537:LYS:O	2:M:539:VAL:N	2.50	0.44
2:C:129:ILE:HG12	2:C:386:PHE:O	2.17	0.44
3:I:151:GLN:HG2	3:I:152:LEU:H	1.81	0.44
3:N:1036:ARG:C	3:N:1038:LEU:H	2.21	0.44
2:C:575:GLN:HE21	2:C:671:ASN:H	1.65	0.44
2:H:516:ARG:NH2	3:I:1068:LEU:HD11	2.32	0.44
1:L:125:PRO:C	1:L:127:LEU:H	2.20	0.44
3:I:670:VAL:HG22	3:I:671:LYS:N	2.32	0.44
1:G:205:VAL:HG23	1:G:209:GLU:CD	2.38	0.44
2:H:547:ILE:HD12	2:H:547:ILE:N	2.32	0.44
3:I:1293:PHE:HD2	3:I:1300:SER:HB2	1.82	0.44
2:H:100:LEU:C	2:H:100:LEU:HD13	2.38	0.44
2:H:113:VAL:HG13	2:H:373:VAL:HG11	1.99	0.44
2:H:598:GLU:HB2	2:H:615:TYR:CE2	2.52	0.44
3:I:908:LYS:CB	3:I:1027:GLY:HA3	2.46	0.44
3:I:24:GLY:HA3	3:I:49:ILE:HG23	1.98	0.44
3:I:1031:ASN:HD21	5:Y:32:ASP:CA	2.30	0.44
3:N:646:LYS:CD	3:N:647:ARG:NH1	2.79	0.44
5:X:33:PHE:C	5:X:35:GLN:N	2.70	0.44
2:C:864:GLY:O	2:C:865:THR:C	2.55	0.44
2:H:834:GLN:HB2	2:H:835:VAL:H	1.54	0.44
3:N:1114:THR:HG23	3:N:1114:THR:O	2.17	0.44
2:H:124:ASP:OD1	2:H:126:SER:HB3	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:697:ARG:HD2	2:H:699:PHE:CE1	2.53	0.44
3:I:571:LYS:O	3:I:574:LEU:HB3	2.18	0.44
2:M:409:ARG:HA	2:M:454:SER:OG	2.17	0.44
3:N:493:ARG:NH1	3:N:1390:LEU:HB3	2.33	0.44
2:C:274:ARG:HG3	2:C:285:LEU:HD22	2.00	0.44
1:B:65:PHE:CD1	3:D:813:LEU:HD13	2.52	0.44
3:I:1223:ILE:O	3:I:1226:ALA:HB3	2.17	0.44
3:N:925:GLU:HG2	3:N:926:LYS:N	2.32	0.44
2:H:300:ASP:CG	2:H:300:ASP:O	2.55	0.44
2:H:724:ARG:HH21	2:H:734:LEU:HB3	1.82	0.44
1:A:42:ARG:NH2	2:C:857:ASP:HB3	2.33	0.44
2:H:139:GLN:HE22	2:H:415:PRO:HD3	1.78	0.44
2:H:146:VAL:HG11	2:H:281:LEU:CD2	2.47	0.44
3:N:977:ALA:C	3:N:982:PHE:HB3	2.38	0.44
3:N:974:ILE:HA	5:Z:112:VAL:HG21	1.99	0.44
1:L:73:GLU:CG	1:L:78:ILE:HD11	2.48	0.44
3:D:1442:ASN:ND2	3:D:1444:THR:HB	2.32	0.44
3:D:356:PRO:O	3:D:385:VAL:HG21	2.18	0.44
3:N:658:LEU:O	3:N:661:MET:HB2	2.17	0.44
3:I:1488:ASP:HB3	4:J:73:LEU:HD12	1.99	0.44
3:I:1118:ILE:HG22	3:I:1119:SER:N	2.32	0.44
3:I:362:GLU:O	3:I:379:ALA:HB1	2.17	0.44
2:C:700:TYR:HB3	2:C:833:LEU:CD1	2.41	0.44
3:D:141:ILE:HD12	3:D:448:GLU:CG	2.41	0.44
1:K:89:PHE:CD1	1:K:146:ARG:HD3	2.52	0.44
1:G:206:THR:OG1	1:G:207:PRO:HD2	2.17	0.44
2:H:544:THR:HA	2:H:547:ILE:HD13	1.98	0.44
3:N:1404:ASN:CG	3:N:1408:ILE:HD13	2.38	0.44
3:N:911:LEU:O	3:N:914:LEU:N	2.50	0.44
3:D:6:ARG:O	3:D:7:LYS:HD3	2.17	0.44
3:I:1372:VAL:O	3:I:1375:MET:N	2.48	0.44
3:N:209:ARG:CG	3:N:209:ARG:NH1	2.75	0.44
3:D:8:VAL:O	3:D:1434:TRP:CH2	2.71	0.44
3:D:24:GLY:HA3	3:D:49:ILE:HG12	1.99	0.44
3:D:93:ILE:CD1	3:D:548:ILE:HD12	2.47	0.44
3:D:1412:LYS:C	3:D:1414:PRO:HD3	2.38	0.44
2:C:124:ASP:CA	2:C:592:LEU:HD12	2.47	0.44
3:I:709:HIS:HA	3:I:1227:GLN:HB3	1.98	0.44
3:N:1292:VAL:HG23	3:N:1305:LEU:CD2	2.47	0.44
2:H:723:THR:C	2:H:725:ASP:H	2.21	0.44
3:I:667:ALA:HA	3:I:668:PRO:HD3	1.87	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:577:ALA:O	3:I:580:ALA:HB3	2.18	0.44
3:N:828:LYS:NZ	3:N:828:LYS:HB2	2.32	0.44
3:N:848:GLU:HA	3:N:851:LEU:HD12	1.99	0.44
2:C:260:LEU:H	2:C:293:PHE:HE2	1.65	0.44
3:I:947:ILE:CD1	3:I:947:ILE:H	2.16	0.44
1:K:122:ILE:HG23	1:K:124:ASN:H	1.83	0.44
1:G:186:LEU:O	1:G:188:GLN:N	2.51	0.44
3:I:1099:VAL:O	3:I:1101:VAL:N	2.51	0.44
3:I:633:VAL:HG22	3:I:634:GLY:N	2.32	0.44
3:I:649:ALA:HA	3:I:652:LEU:CG	2.48	0.44
4:J:47:LYS:HE3	4:J:55:PHE:CE2	2.51	0.44
3:D:1350:GLU:OE2	3:D:1357:ARG:NH1	2.51	0.44
2:H:162:ILE:HG22	2:H:164:PRO:HD3	1.99	0.44
3:D:637:LEU:HD11	3:D:642:CYS:N	2.32	0.44
3:I:799:LYS:C	3:I:799:LYS:CD	2.84	0.44
3:D:102:ILE:HD11	3:D:106:LYS:HB2	1.99	0.44
3:N:150:ARG:NH1	3:N:468:LEU:HD21	2.33	0.44
3:D:1424:VAL:HG13	3:D:1425:THR:N	2.32	0.44
2:H:19:THR:C	2:H:23:VAL:HG23	2.38	0.44
2:C:537:LYS:C	2:C:539:VAL:H	2.21	0.44
2:M:851:LYS:HG2	2:M:852:ILE:H	1.83	0.44
2:H:524:VAL:HG13	2:H:528:GLU:OE1	2.16	0.44
3:D:407:VAL:HG21	3:D:437:VAL:HG11	2.00	0.44
2:C:181:VAL:HG12	2:C:182:VAL:N	2.33	0.44
2:C:833:LEU:HG	2:C:837:ASP:OD2	2.18	0.44
3:D:677:LEU:HD22	3:D:677:LEU:N	2.33	0.44
2:C:839:LEU:HA	2:C:997:LEU:CD2	2.47	0.44
2:M:29:ALA:O	2:M:44:ILE:HD13	2.18	0.44
3:N:1487:VAL:HG12	3:N:1488:ASP:H	1.83	0.44
3:D:1153:VAL:HG12	3:D:1155:VAL:HG23	1.99	0.44
4:O:26:ARG:NH2	4:O:37:ASN:CB	2.80	0.44
5:Z:127:LYS:NZ	5:Z:140:LEU:HD21	2.33	0.44
3:I:989:TYR:CE2	3:I:993:LEU:HD11	2.53	0.44
2:M:384:GLU:O	2:M:388:ARG:HB2	2.17	0.44
3:N:126:VAL:O	3:N:132:TYR:HB2	2.17	0.44
1:F:137:ARG:NH1	1:F:137:ARG:HG3	2.32	0.44
1:F:20:TYR:HD2	1:F:21:GLY:N	2.14	0.44
3:I:1377:LYS:HG2	3:I:1377:LYS:O	2.17	0.44
3:D:636:GLN:N	3:D:636:GLN:OE1	2.43	0.44
3:N:1304:LYS:H	3:N:1304:LYS:HD3	1.82	0.44
2:H:104:ASP:O	2:H:105:THR:C	2.56	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:32:PHE:O	1:L:36:LEU:HD12	2.18	0.44
3:I:100:ALA:CB	3:I:575:GLN:HE22	2.23	0.44
2:M:568:ALA:HB2	2:M:995:MET:CE	2.47	0.44
2:C:987:ILE:O	2:C:989:VAL:HG13	2.17	0.44
3:D:1026:SER:C	3:D:1028:ALA:N	2.69	0.44
2:H:26:TYR:O	2:H:30:LEU:HG	2.18	0.44
2:H:98:LEU:N	2:H:98:LEU:CD2	2.65	0.44
3:N:798:GLU:HG3	3:N:828:LYS:NZ	2.32	0.44
3:N:838:ARG:H	3:N:838:ARG:HD2	1.82	0.44
2:C:165:LEU:HG	2:C:166:PRO:CA	2.47	0.44
2:C:164:PRO:HB2	2:C:265:ARG:H	1.83	0.44
2:M:1037:VAL:HG13	2:M:1049:LEU:HD13	1.99	0.44
3:D:827:ILE:O	3:D:837:GLY:N	2.49	0.44
1:F:40:LEU:O	1:F:43:ILE:HG12	2.17	0.44
1:K:80:LEU:HD23	1:K:81:ASN:OD1	2.17	0.44
3:D:1451:ALA:O	3:D:1452:ILE:C	2.55	0.44
3:I:637:LEU:HD11	3:I:642:CYS:N	2.33	0.44
4:J:47:LYS:HA	4:J:54:LEU:HB3	1.99	0.44
2:M:1042:ALA:HB2	3:N:1223:ILE:HB	1.98	0.44
3:D:1481:VAL:O	3:D:1483:PHE:N	2.51	0.44
3:I:141:ILE:HG22	3:I:142:LEU:N	2.33	0.44
2:M:175:GLU:OE1	2:M:177:GLU:HG2	2.18	0.44
2:H:720:GLU:OE2	2:H:758:ARG:HD2	2.17	0.44
1:B:79:ILE:HG13	1:B:80:LEU:H	1.82	0.44
1:K:209:GLU:O	1:K:213:GLN:HG3	2.18	0.44
3:D:1094:LEU:HD21	3:D:1229:ILE:HG22	2.00	0.44
3:D:1094:LEU:O	3:D:1095:THR:C	2.56	0.44
3:D:1356:TYR:HD2	3:D:1361:VAL:HG11	1.82	0.44
3:D:563:PRO:HB2	3:D:566:ILE:HD12	1.99	0.44
2:C:96:ALA:HB3	2:C:113:VAL:O	2.17	0.44
2:C:1006:HIS:H	3:D:628:ARG:HH12	1.66	0.44
1:L:138:LEU:HD13	1:L:138:LEU:C	2.38	0.44
3:I:479:GLU:HA	3:I:483:HIS:CE1	2.53	0.44
2:H:574:ALA:HB1	2:H:667:ALA:HB3	1.99	0.44
2:M:905:ILE:H	2:M:905:ILE:CD1	2.31	0.44
2:M:564:MET:CE	2:M:840:ALA:HB3	2.46	0.44
2:M:700:TYR:HB3	2:M:833:LEU:CD1	2.45	0.44
2:C:9:ILE:HG12	2:C:907:ASP:CG	2.38	0.44
3:D:162:ARG:C	3:D:162:ARG:HD3	2.37	0.44
2:H:1019:GLN:O	2:H:1021:LEU:N	2.46	0.44
3:I:620:GLY:O	3:I:621:LYS:HG2	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:366:SER:C	2:H:367:LEU:HG	2.38	0.44
3:I:680:GLN:N	3:I:680:GLN:CD	2.70	0.44
2:H:403:SER:O	2:H:407:LYS:HG3	2.18	0.44
3:N:345:TYR:CZ	3:N:377:VAL:HG22	2.53	0.44
3:I:1156:LEU:HD12	3:I:1177:ALA:CA	2.48	0.44
2:H:292:ARG:HE	2:H:299:LYS:HE2	1.82	0.44
1:L:99:LEU:HD23	1:L:115:LEU:CD1	2.46	0.44
2:H:2:GLU:HG2	2:H:3:ILE:N	2.33	0.44
3:N:885:ILE:HD12	3:N:937:TYR:CZ	2.52	0.44
3:N:659:LYS:CA	3:N:659:LYS:HE3	2.48	0.44
3:D:1490:LYS:HZ3	4:E:39:VAL:HG12	1.81	0.44
2:C:224:GLU:OE1	2:C:226:VAL:HG12	2.17	0.44
2:C:550:LEU:HG	3:D:1070:TYR:CE1	2.53	0.44
3:D:1286:THR:HG22	3:D:1287:GLU:H	1.82	0.44
2:M:396:ASP:H	2:M:406:HIS:CD2	2.34	0.44
1:L:179:PHE:HB3	1:L:197:LEU:CG	2.48	0.44
2:H:431:HIS:ND1	2:H:432:ARG:N	2.66	0.44
3:D:996:TRP:CE2	3:D:1056:PRO:HG2	2.52	0.44
2:C:683:ASN:HB2	2:C:872:ASN:HB2	1.99	0.44
1:K:195:LEU:HG	1:K:197:LEU:HD23	2.00	0.44
2:M:988:VAL:HG11	3:N:949:ILE:O	2.18	0.44
3:N:845:ASN:C	3:N:845:ASN:ND2	2.70	0.44
2:M:710:ILE:HG22	2:M:823:VAL:HG12	1.99	0.44
2:C:272:ALA:O	2:C:276:LYS:NZ	2.38	0.44
2:C:250:ARG:C	2:C:252:LYS:H	2.21	0.44
3:I:767:HIS:CE1	4:J:2:ALA:HB1	2.53	0.44
3:N:618:LEU:HD21	3:N:1463:LYS:HZ1	1.83	0.44
3:D:800:LYS:NZ	3:D:830:ALA:HB3	2.33	0.44
5:X:15:LEU:O	5:X:18:GLN:HB3	2.18	0.44
3:N:832:ARG:HG3	3:N:833:GLU:OE1	2.18	0.44
3:I:1219:GLU:HG3	3:I:1220:ALA:N	2.32	0.44
3:I:711:LEU:C	3:I:713:ILE:H	2.21	0.44
4:J:47:LYS:N	4:J:54:LEU:HD22	2.33	0.44
3:D:1102:THR:CA	3:D:1105:ILE:HD13	2.41	0.44
3:D:1344:VAL:HG12	3:D:1348:LEU:HD21	2.00	0.44
3:N:153:LEU:C	3:N:153:LEU:CD1	2.86	0.44
3:N:989:TYR:O	3:N:993:LEU:HG	2.18	0.44
2:H:158:TYR:CD1	2:H:313:LEU:HD13	2.53	0.44
3:D:703:ASN:HB3	3:D:746:ALA:HB3	1.98	0.44
3:I:475:LYS:O	3:I:479:GLU:HG2	2.18	0.44
3:I:483:HIS:HB2	3:I:484:PRO:CD	2.37	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:578:VAL:N	2:H:671:ASN:HD21	2.16	0.44
3:D:1372:VAL:HA	3:D:1375:MET:HG3	2.00	0.44
2:C:406:HIS:HA	2:C:409:ARG:HG2	1.99	0.44
1:A:215:VAL:HG11	1:B:225:PHE:CD1	2.53	0.44
3:N:661:MET:CE	3:N:673:ALA:HB1	2.38	0.44
1:L:110:LYS:N	1:L:113:ASP:OD1	2.46	0.44
2:C:49:ARG:CB	2:C:49:ARG:HH11	2.29	0.44
3:D:1495:ILE:HG13	4:E:80:VAL:HG13	1.99	0.44
2:H:654:LEU:CD2	2:H:654:LEU:H	2.26	0.44
2:M:524:VAL:CG1	2:M:528:GLU:HB2	2.48	0.44
1:K:53:VAL:O	1:K:167:VAL:HB	2.18	0.44
5:Z:37:LEU:CD2	5:Z:42:LEU:HD11	2.48	0.44
4:O:70:THR:O	4:O:72:ARG:N	2.43	0.44
3:D:1470:ARG:HG2	3:D:1470:ARG:NH1	2.32	0.44
3:D:6:ARG:HH11	3:D:6:ARG:HA	1.82	0.44
3:I:1031:ASN:O	3:I:1032:PRO:C	2.56	0.44
3:N:650:LEU:HD13	3:N:691:LEU:HD22	1.99	0.44
2:H:1008:ARG:NH1	2:H:1011:GLY:N	2.66	0.44
1:F:184:THR:HG22	1:F:192:LEU:O	2.18	0.44
5:Z:3:ARG:HB3	5:Z:4:GLU:H	1.61	0.44
3:D:447:VAL:O	3:D:449:SER:N	2.50	0.44
2:M:1038:TRP:HD1	2:M:1041:GLU:OE1	2.01	0.44
3:I:774:SER:OG	3:I:776:GLU:HG2	2.17	0.44
2:C:317:VAL:HG12	2:C:317:VAL:O	2.18	0.44
3:I:1401:GLU:OE2	3:I:1402:ALA:N	2.51	0.44
2:C:80:GLN:O	2:C:81:ASP:C	2.55	0.44
2:H:616:GLU:C	2:H:618:GLY:H	2.21	0.44
3:N:204:LEU:HD21	3:N:441:ARG:NH1	2.33	0.44
3:N:1019:PRO:O	3:N:1020:LEU:C	2.56	0.44
2:H:1095:LEU:HD12	3:I:603:LEU:CD1	2.39	0.44
3:D:970:LYS:O	3:D:973:GLN:HB2	2.17	0.44
2:C:281:LEU:O	2:C:282:GLY:C	2.56	0.44
3:D:87:ARG:O	3:D:524:LEU:HD11	2.18	0.44
2:H:683:ASN:N	2:H:683:ASN:OD1	2.50	0.44
2:H:871:LEU:HD22	2:H:871:LEU:N	2.33	0.44
2:H:889:HIS:CD2	2:H:970:GLY:HA3	2.53	0.44
2:H:939:ARG:HD3	2:H:982:PRO:CD	2.47	0.44
2:H:976:ASP:OD2	2:H:979:THR:N	2.51	0.44
2:H:850:ALA:HA	3:I:632:VAL:HG11	2.00	0.44
2:M:171:TRP:HH2	2:M:417:GLY:HA2	1.82	0.44
2:C:1041:GLU:OE1	3:D:1462:LEU:HB3	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1105:ILE:CD1	3:D:1105:ILE:N	2.80	0.44
2:M:179:ASN:HD22	2:M:179:ASN:HA	1.56	0.44
2:M:264:PRO:HB2	2:M:289:THR:HB	2.00	0.44
2:M:286:SER:OG	2:M:299:LYS:HE3	2.18	0.44
1:B:83:LYS:CD	1:B:167:VAL:HG12	2.47	0.44
1:B:74:ASP:O	1:B:78:ILE:HG12	2.18	0.44
1:L:58:ILE:HB	1:L:61:VAL:CG2	2.48	0.44
2:H:572:ILE:HG23	2:H:703:ILE:HD11	2.00	0.44
2:H:631:SER:HA	2:H:637:LEU:HD11	1.99	0.44
2:C:739:GLU:HG2	2:C:740:GLU:N	2.33	0.44
1:B:89:PHE:CD1	1:B:120:VAL:HG12	2.53	0.44
2:M:557:ARG:CG	2:M:557:ARG:HH11	2.31	0.44
2:C:154:ARG:CZ	2:C:178:PRO:HG3	2.47	0.44
3:I:1487:VAL:HG12	3:I:1488:ASP:N	2.33	0.44
2:C:520:GLU:OE2	2:C:521:PRO:HD2	2.18	0.44
3:D:1068:LEU:O	3:D:1072:ILE:HG12	2.18	0.44
2:C:694:LEU:HD22	2:C:699:PHE:CD1	2.53	0.44
2:M:753:ASP:O	2:M:791:ARG:HB3	2.18	0.44
1:L:110:LYS:NZ	1:L:112:ARG:NH1	2.66	0.44
3:D:676:MET:CB	3:D:677:LEU:HD22	2.47	0.44
1:F:85:LEU:CD1	1:F:124:ASN:HB3	2.48	0.44
3:I:666:ILE:HG22	3:I:676:MET:CE	2.48	0.44
1:A:94:LEU:HD11	1:A:119:ASP:OD1	2.17	0.44
3:N:1256:LEU:HD22	3:N:1256:LEU:O	2.18	0.44
3:I:1000:THR:HA	3:I:1003:VAL:HG12	1.99	0.44
2:M:611:ILE:HG13	2:M:625:LEU:CD1	2.47	0.44
3:N:1101:VAL:HG11	3:N:1424:VAL:O	2.18	0.44
3:N:1437:ALA:HA	3:N:1441:GLN:OE1	2.18	0.44
2:H:1050:GLN:NE2	3:I:1471:LEU:N	2.65	0.44
2:M:887:GLU:CD	2:M:992:MET:HA	2.38	0.44
3:D:1487:VAL:HG21	4:E:79:LEU:HG	2.00	0.44
4:J:61:VAL:HG23	4:J:62:THR:N	2.33	0.44
3:D:612:GLY:O	3:D:616:GLN:HB2	2.17	0.44
3:I:82:LYS:CG	3:I:83:SER:H	2.27	0.44
5:Z:89:VAL:N	5:Z:102:VAL:O	2.50	0.44
3:D:699:VAL:HG21	3:D:760:ARG:HB3	1.99	0.44
3:I:1063:GLU:CD	3:I:1064:GLY:H	2.20	0.44
2:H:903:SER:OG	2:H:908:GLY:HA3	2.18	0.44
1:F:156:HIS:HD2	1:F:156:HIS:H	1.66	0.43
1:G:99:LEU:CD1	1:G:142:VAL:HG23	2.22	0.43
3:I:521:PRO:HA	3:I:522:PRO:HD3	1.88	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:562:ALA:N	3:I:563:PRO:CD	2.80	0.43
2:M:109:LYS:O	2:M:368:THR:HG21	2.16	0.43
3:D:907:GLU:OE2	3:D:908:LYS:HB3	2.18	0.43
2:H:69:LEU:HB2	2:H:97:ARG:O	2.18	0.43
1:K:176:ARG:NH1	2:M:865:THR:HB	2.33	0.43
2:C:184:MET:HB2	2:C:193:LEU:HG	1.99	0.43
3:N:1434:TRP:CH2	3:N:1457:ASP:HB2	2.53	0.43
1:G:177:VAL:CG1	1:G:199:ILE:HG23	2.48	0.43
2:H:877:PRO:HB3	3:I:1023:MET:CE	2.38	0.43
3:I:642:CYS:SG	3:I:716:PHE:CB	2.98	0.43
3:I:165:LYS:HG2	3:I:166:GLN:H	1.81	0.43
3:D:1205:TYR:CE1	3:D:1366:LYS:HD3	2.53	0.43
3:N:452:ILE:HD13	3:N:452:ILE:C	2.38	0.43
3:D:165:LYS:NZ	3:D:199:LEU:HD12	2.33	0.43
3:N:171:LEU:HB3	3:N:391:ALA:O	2.18	0.43
3:I:203:ALA:HA	3:I:395:VAL:HA	1.99	0.43
3:D:122:GLU:O	3:D:124:GLU:N	2.50	0.43
1:B:186:LEU:CB	1:B:192:LEU:HD11	2.48	0.43
2:H:575:GLN:CD	2:H:670:GLN:HG2	2.39	0.43
2:C:136:ILE:HG22	2:C:336:VAL:HG22	2.00	0.43
1:A:208:LEU:HD23	1:A:208:LEU:C	2.39	0.43
3:D:1109:GLU:CD	3:D:1109:GLU:C	2.76	0.43
3:I:1364:HIS:ND1	3:I:1365:ASP:N	2.66	0.43
3:D:673:ALA:O	3:D:676:MET:HB2	2.18	0.43
3:I:411:THR:HG23	3:I:436:GLU:HA	1.99	0.43
5:X:102:VAL:CG2	5:X:117:MET:HB2	2.48	0.43
3:N:1492:LEU:HD13	3:N:1492:LEU:O	2.17	0.43
3:D:31:THR:HG22	3:D:44:LEU:HD13	2.00	0.43
2:M:610:ARG:HA	2:M:625:LEU:HG	1.99	0.43
3:I:18:ILE:HG21	3:I:516:ALA:O	2.18	0.43
2:C:943:VAL:HG13	2:C:944:LEU:H	1.80	0.43
5:Z:93:ASP:O	5:Z:97:GLY:HA2	2.18	0.43
3:N:1058:ARG:HH11	3:N:1058:ARG:CG	2.24	0.43
5:Y:109:GLU:O	5:Y:110:ALA:C	2.56	0.43
5:Y:74:ILE:O	5:Y:74:ILE:HG23	2.18	0.43
3:N:360:ARG:HB2	3:N:360:ARG:CZ	2.47	0.43
1:L:209:GLU:O	1:L:210:ALA:C	2.56	0.43
3:N:787:LEU:HD21	3:N:942:SER:HB3	1.99	0.43
1:L:26:GLU:HG2	1:L:27:PRO:N	2.32	0.43
2:C:460:ARG:HH11	2:C:460:ARG:CB	2.31	0.43
2:M:911:GLU:O	2:M:915:LYS:HG2	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:88:LEU:HD22	2:M:814:GLU:HG2	2.00	0.43
5:Z:18:GLN:O	5:Z:22:GLU:HG2	2.18	0.43
3:I:32:ILE:HD13	3:I:39:PRO:HA	1.99	0.43
3:N:109:PRO:CD	3:N:1445:HIS:NE2	2.81	0.43
3:N:1445:HIS:O	3:N:1449:GLU:HG3	2.18	0.43
2:H:64:LEU:CB	2:H:359:MET:HG3	2.25	0.43
3:N:949:ILE:HD11	3:N:1023:MET:HE1	2.00	0.43
3:D:1262:LEU:HD23	3:D:1352:ILE:HD13	1.99	0.43
3:N:826:PRO:O	3:N:836:VAL:HG11	2.18	0.43
1:K:51:THR:HG21	1:K:87:VAL:O	2.18	0.43
3:D:1473:PRO:O	3:D:1478:SER:HA	2.18	0.43
3:I:161:LEU:HD21	3:I:397:LYS:HZ3	1.83	0.43
3:D:1146:GLY:HA3	3:D:1207:TYR:HB2	1.99	0.43
2:H:162:ILE:HB	2:H:172:ILE:HD11	2.00	0.43
2:C:54:ILE:HD13	2:C:355:VAL:HG13	1.99	0.43
3:N:729:HIS:HD1	3:N:730:PRO:HD2	1.79	0.43
1:K:208:LEU:HD23	1:K:212:ASN:HD22	1.82	0.43
3:I:191:LEU:HD13	3:I:393:ILE:HG12	1.98	0.43
3:D:560:GLN:O	2:H:226:VAL:HG11	2.18	0.43
4:E:47:LYS:HG2	4:E:55:PHE:CE2	2.53	0.43
3:N:695:ILE:HG12	3:N:696:HIS:N	2.33	0.43
3:N:760:ARG:NH1	4:O:61:VAL:HG23	2.33	0.43
2:H:1063:ARG:HH11	2:H:1064:ASN:CG	2.22	0.43
2:H:1056:LYS:HZ1	3:I:625:TYR:HB2	1.82	0.43
2:C:939:ARG:NE	2:C:939:ARG:HA	2.34	0.43
1:A:206:THR:OG1	1:A:207:PRO:HD2	2.17	0.43
3:I:1415:VAL:O	3:I:1415:VAL:HG23	2.18	0.43
3:I:629:SER:HB3	3:I:726:ILE:HD11	2.00	0.43
2:H:1014:SER:HB3	2:H:1019:GLN:N	2.22	0.43
2:M:238:LEU:HA	2:M:241:LEU:HG	2.01	0.43
2:H:119:PRO:O	2:H:120:LEU:HD13	2.17	0.43
3:I:664:LYS:N	3:I:664:LYS:HD3	2.34	0.43
2:H:808:ARG:O	2:H:810:ASP:N	2.51	0.43
4:J:30:LEU:HB3	4:J:35:PHE:CE1	2.53	0.43
1:A:89:PHE:HB3	1:A:94:LEU:HD12	2.00	0.43
2:H:299:LYS:O	2:H:299:LYS:HG3	2.17	0.43
2:C:1103:ASP:O	3:D:7:LYS:HG2	2.17	0.43
3:N:1176:LYS:O	3:N:1179:GLU:HB2	2.18	0.43
5:X:51:ALA:O	5:X:54:ALA:HB3	2.17	0.43
2:C:911:GLU:HG3	3:D:951:ILE:CD1	2.47	0.43
3:N:1132:LEU:N	3:N:1132:LEU:HD12	2.32	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:774:SER:O	3:I:776:GLU:N	2.50	0.43
1:A:165:ILE:HD12	1:A:165:ILE:O	2.18	0.43
3:I:485:SER:O	3:I:489:ARG:HB3	2.16	0.43
4:O:74:VAL:HG12	4:O:75:PHE:N	2.33	0.43
2:C:714:ASP:OD1	2:C:719:PRO:HG3	2.18	0.43
3:I:45:PHE:HE1	3:I:525:ARG:HH12	1.66	0.43
3:I:525:ARG:HB2	3:I:538:SER:HB3	2.00	0.43
2:M:952:LEU:CD1	2:M:969:GLN:HE22	2.30	0.43
2:C:165:LEU:HA	2:C:166:PRO:O	2.18	0.43
2:C:271:GLU:O	2:C:272:ALA:C	2.56	0.43
3:N:387:LEU:HD22	3:N:387:LEU:O	2.18	0.43
5:X:8:THR:HA	5:X:74:ILE:HD12	1.98	0.43
1:G:48:ILE:HG12	1:G:174:VAL:HG21	1.98	0.43
3:I:952:ASP:HA	3:I:1062:ARG:NH1	2.33	0.43
3:I:708:LEU:HD13	3:I:1231:GLU:HA	2.00	0.43
3:I:649:ALA:HA	3:I:652:LEU:HD21	2.00	0.43
2:H:242:LEU:CD1	2:H:254:VAL:HG21	2.49	0.43
2:H:253:ALA:O	2:H:257:VAL:HG23	2.17	0.43
2:H:265:ARG:HB3	2:H:267:TYR:CZ	2.54	0.43
2:H:310:LEU:O	2:H:313:LEU:HD12	2.18	0.43
2:C:72:ARG:HD2	2:C:72:ARG:C	2.39	0.43
2:C:1001:VAL:O	2:C:1001:VAL:HG12	2.17	0.43
3:D:711:LEU:C	3:D:713:ILE:H	2.20	0.43
3:N:919:PHE:CE1	3:N:924:MET:HA	2.54	0.43
2:C:888:THR:HG23	2:C:990:GLY:HA3	1.99	0.43
3:I:650:LEU:HD13	3:I:691:LEU:HD22	2.00	0.43
3:N:1481:VAL:C	3:N:1483:PHE:N	2.70	0.43
3:N:1217:ILE:HD13	4:O:15:SER:HB2	2.00	0.43
2:C:332:ARG:HG3	2:C:465:GLY:HA3	1.99	0.43
3:I:850:LEU:O	3:I:853:VAL:N	2.51	0.43
2:H:575:GLN:C	2:H:667:ALA:HB1	2.39	0.43
2:M:905:ILE:N	2:M:905:ILE:HD12	2.34	0.43
3:D:880:ILE:O	3:D:883:ALA:HB3	2.18	0.43
2:M:502:PRO:HB2	2:M:509:ALA:HB3	1.99	0.43
2:C:137:VAL:HG23	2:C:409:ARG:O	2.18	0.43
1:B:143:ARG:HD3	1:B:160:ASP:OD2	2.19	0.43
5:Z:7:LEU:O	5:Z:74:ILE:HD12	2.17	0.43
3:I:710:ARG:C	3:I:712:GLY:N	2.72	0.43
3:I:148:GLU:O	3:I:150:ARG:N	2.52	0.43
3:D:982:PHE:CD1	5:X:117:MET:HE1	2.53	0.43
2:H:109:LYS:HB3	2:H:109:LYS:HE2	1.71	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:218:LEU:CD1	1:B:222:LEU:HD11	2.49	0.43
2:M:1016:ILE:HD13	2:M:1016:ILE:N	2.28	0.43
3:D:1171:VAL:HA	3:D:1174:LEU:HD12	2.00	0.43
3:I:1426:LYS:HD3	3:I:1429:LEU:HD23	1.99	0.43
5:Y:63:ASP:O	5:Y:67:ASP:HB2	2.17	0.43
3:I:1286:THR:O	3:I:1287:GLU:CB	2.65	0.43
3:I:548:ILE:CD1	3:I:548:ILE:H	2.31	0.43
3:I:900:ILE:HD13	3:I:900:ILE:O	2.18	0.43
1:B:62:LEU:CD1	1:B:62:LEU:N	2.81	0.43
2:C:226:VAL:HG13	2:C:227:PHE:N	2.33	0.43
5:Y:11:GLY:HA3	5:Y:109:GLU:OE1	2.19	0.43
2:H:384:GLU:CG	2:H:388:ARG:HD2	2.48	0.43
3:D:699:VAL:HG22	3:D:756:GLN:OE1	2.19	0.43
3:D:994:GLN:OE1	3:D:994:GLN:HA	2.18	0.43
3:I:1105:ILE:HD11	3:I:1374:GLN:NE2	2.33	0.43
2:H:1044:GLY:HA3	4:J:17:TYR:HE1	1.82	0.43
3:I:592:THR:HG22	3:I:593:ASN:N	2.33	0.43
4:O:83:ASP:C	4:O:85:LEU:H	2.20	0.43
1:K:162:ILE:HG12	1:K:163:ASN:N	2.33	0.43
2:M:87:ASP:HA	2:M:131:GLY:HA3	1.99	0.43
1:F:19:GLU:HG3	1:F:201:THR:O	2.17	0.43
3:I:995:LEU:O	3:I:999:THR:HB	2.19	0.43
2:C:274:ARG:HH12	2:C:284:ARG:HA	1.83	0.43
3:D:814:ALA:O	3:D:818:ARG:N	2.52	0.43
2:C:918:LEU:HD21	2:C:968:LEU:O	2.18	0.43
3:I:137:PRO:HG2	3:I:453:ASP:N	2.30	0.43
3:I:139:GLY:H	3:I:147:VAL:HG21	1.82	0.43
3:D:554:LEU:HD13	3:D:570:GLU:HG3	2.00	0.43
2:C:1004:LYS:O	2:C:1005:MET:HB2	2.18	0.43
3:N:639:LEU:CD2	3:N:766:ALA:HB2	2.49	0.43
4:O:48:MET:CG	4:O:49:GLN:H	2.29	0.43
2:M:834:GLN:N	2:M:837:ASP:OD1	2.50	0.43
3:I:482:LYS:HE3	3:I:1389:LEU:HD23	2.00	0.43
2:M:726:ILE:HG12	2:M:734:LEU:CD1	2.39	0.43
1:A:59:GLU:HG2	1:A:139:ASN:HB3	2.00	0.43
3:D:900:ILE:HD13	3:D:900:ILE:O	2.18	0.43
5:Z:26:LEU:HD13	5:Z:58:ASN:CB	2.48	0.43
3:I:1148:VAL:CG1	3:I:1163:GLY:HA2	2.43	0.43
3:I:1207:TYR:N	3:I:1366:LYS:HZ1	2.16	0.43
3:D:137:PRO:HB2	3:D:138:LYS:HZ3	1.81	0.43
2:H:749:VAL:CG1	2:H:753:ASP:HB2	2.40	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:122:THR:CG2	2:M:123:GLU:N	2.76	0.43
3:I:87:ARG:HD3	3:I:523:ASP:HB2	2.00	0.43
2:C:575:GLN:HB2	2:C:670:GLN:HA	2.00	0.43
2:H:1002:GLU:HG3	2:H:1003:ASP:H	1.83	0.43
2:M:300:ASP:C	2:M:302:VAL:N	2.71	0.43
1:A:65:PHE:CE2	2:C:830:LYS:HG3	2.52	0.43
3:D:549:ASN:HA	3:D:549:ASN:HD22	1.58	0.43
3:N:646:LYS:HD2	3:N:647:ARG:HH12	1.80	0.43
5:X:99:ARG:HD3	5:X:152:VAL:HG21	2.00	0.43
5:Y:95:LEU:CD1	5:Y:95:LEU:H	2.27	0.43
3:D:1490:LYS:HZ1	4:E:39:VAL:HG12	1.80	0.43
3:I:1093:TYR:HA	3:I:1096:ARG:CD	2.48	0.43
2:C:1084:SER:HB3	3:D:617:ASN:HD21	1.83	0.43
3:D:1310:ARG:HB3	3:D:1310:ARG:CZ	2.47	0.43
4:E:23:VAL:HG21	4:E:65:MET:CE	2.48	0.43
2:M:704:HIS:ND1	2:M:831:ARG:CZ	2.82	0.43
3:D:618:LEU:C	3:D:620:GLY:N	2.71	0.43
3:N:409:VAL:HG23	3:N:421:LEU:HA	2.00	0.43
2:H:479:VAL:CG2	2:H:506:ASN:HA	2.48	0.43
2:C:189:ARG:HG2	2:C:243:ARG:HH12	1.84	0.43
3:N:1304:LYS:N	3:N:1304:LYS:HD3	2.32	0.43
2:M:87:ASP:HA	2:M:131:GLY:CA	2.48	0.43
5:Y:92:GLU:HA	5:Y:98:GLU:O	2.19	0.43
1:L:17:GLY:O	1:L:18:ARG:HG2	2.19	0.43
3:I:969:ARG:O	3:I:973:GLN:HG3	2.18	0.43
2:C:727:PRO:HD2	2:C:787:ASP:HB2	2.00	0.43
2:C:461:VAL:HG12	2:C:462:ASP:N	2.34	0.43
2:H:712:ALA:HB3	2:H:821:GLU:HG3	2.00	0.43
1:A:186:LEU:HG	1:A:187:GLY:H	1.83	0.43
3:I:783:ARG:HG2	3:I:784:ASP:N	2.28	0.43
2:C:679:PHE:O	2:C:681:GLY:N	2.46	0.43
1:L:175:ARG:HH21	3:N:847:ASP:CB	2.32	0.43
2:C:165:LEU:CG	2:C:166:PRO:HA	2.49	0.43
2:C:508:ILE:HD13	2:C:529:VAL:HG21	2.01	0.43
3:I:695:ILE:CG2	3:I:696:HIS:N	2.80	0.43
3:I:6:ARG:O	3:I:1459:LEU:HD13	2.17	0.43
2:H:705:ILE:N	2:H:705:ILE:CD1	2.74	0.43
2:H:146:VAL:HA	2:H:161:SER:O	2.18	0.43
2:C:355:VAL:HG23	2:C:372:LEU:CD2	2.48	0.43
3:N:165:LYS:NZ	3:N:165:LYS:CB	2.78	0.43
3:D:562:ALA:N	3:D:563:PRO:CD	2.81	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:455:ARG:HH11	3:D:455:ARG:HG3	1.83	0.43
3:I:804:LEU:CD1	3:I:832:ARG:H	2.31	0.43
1:G:80:LEU:HG	3:I:844:ALA:CB	2.48	0.43
3:I:1380:GLU:HG2	3:I:1381:VAL:N	2.33	0.43
3:D:1106:VAL:CG2	3:D:1220:ALA:HA	2.41	0.43
3:D:137:PRO:HG3	3:D:452:ILE:HB	1.99	0.43
3:D:752:SER:HB3	3:D:755:ALA:HB3	1.99	0.43
3:N:1105:ILE:HD12	3:N:1105:ILE:N	2.33	0.43
2:C:689:VAL:CG1	2:C:690:ILE:N	2.77	0.43
1:A:57:TYR:CE1	1:A:163:ASN:HB2	2.48	0.43
3:N:1256:LEU:HD22	3:N:1259:VAL:CB	2.47	0.43
3:D:18:ILE:HG21	3:D:516:ALA:O	2.18	0.43
2:M:449:ILE:HG21	3:N:1081:GLY:O	2.18	0.43
5:Y:104:VAL:HG22	5:Y:119:ILE:CG1	2.48	0.43
3:N:474:GLU:HG2	3:N:496:LEU:HD11	2.00	0.43
3:D:774:SER:O	3:D:776:GLU:N	2.51	0.43
1:F:52:ALA:CB	1:F:170:VAL:H	2.32	0.43
3:N:811:GLU:HG2	3:N:815:ALA:HB2	1.99	0.43
1:F:8:ALA:HB1	1:G:224:TYR:CE1	2.54	0.43
3:D:459:GLU:HA	3:D:462:GLN:HB3	2.00	0.43
3:N:1311:LEU:H	3:N:1311:LEU:HD23	1.84	0.43
2:C:157:ARG:HG2	2:C:157:ARG:HH11	1.84	0.43
1:B:35:THR:O	1:B:35:THR:HG22	2.19	0.43
3:D:1264:GLU:HA	3:D:1423:GLY:HA3	2.00	0.43
3:I:1491:THR:O	3:I:1494:ALA:HB3	2.18	0.43
1:G:61:VAL:HG12	1:G:62:LEU:N	2.33	0.43
3:N:792:ILE:HD12	3:N:792:ILE:C	2.38	0.43
2:M:756:VAL:CG1	2:M:790:LEU:HD22	2.49	0.43
2:C:173:ASP:HB2	2:C:185:LYS:HB3	1.99	0.43
3:N:44:LEU:HD21	3:N:525:ARG:NH2	2.33	0.43
3:I:695:ILE:CD1	3:I:698:LYS:HB2	2.40	0.43
2:H:232:GLU:HG3	2:H:235:LEU:CD1	2.48	0.43
2:H:824:ARG:NH1	2:H:824:ARG:HG2	2.32	0.43
2:H:151:ASP:OD1	2:H:152:PRO:HD2	2.19	0.43
3:I:810:GLU:O	3:I:813:LEU:HG	2.18	0.43
3:N:148:GLU:O	3:N:150:ARG:N	2.51	0.43
1:B:117:VAL:CG1	1:B:118:ALA:H	2.17	0.43
3:I:1188:VAL:HG22	3:I:1189:ARG:N	2.33	0.43
3:N:692:GLU:OE2	3:N:720:LEU:HD11	2.17	0.43
2:H:1032:PHE:O	2:H:1036:GLU:HB2	2.18	0.43
2:C:910:LYS:HA	2:C:910:LYS:HD3	1.61	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1253:THR:HA	3:N:1258:ARG:HD3	2.01	0.43
1:F:224:TYR:CZ	1:G:9:PRO:HD2	2.52	0.43
2:C:1016:ILE:HG13	2:C:1017:THR:N	2.26	0.43
1:B:132:LEU:CD1	1:B:138:LEU:HB3	2.48	0.43
3:D:1171:VAL:HA	3:D:1174:LEU:HG	2.00	0.43
2:M:1066:ALA:HA	2:M:1077:PRO:CG	2.48	0.43
3:I:1361:VAL:CG1	3:I:1363:LEU:HD22	2.46	0.43
3:I:1305:LEU:HD22	3:I:1311:LEU:HD21	2.01	0.43
5:Z:56:TRP:HA	5:Z:56:TRP:CE3	2.54	0.43
3:D:1491:THR:O	3:D:1494:ALA:HB3	2.18	0.43
1:K:221:HIS:HA	1:K:224:TYR:HD2	1.83	0.43
3:I:845:ASN:ND2	3:I:845:ASN:N	2.67	0.43
3:I:1331:ASP:HB3	3:I:1334:GLN:HB2	2.00	0.43
3:N:495:ARG:O	3:N:499:VAL:HG23	2.18	0.43
3:I:485:SER:O	3:I:489:ARG:CB	2.67	0.43
1:L:17:GLY:C	1:L:18:ARG:HG2	2.39	0.43
2:H:946:ARG:HG2	2:H:946:ARG:HH11	1.84	0.43
3:I:818:ARG:HH11	3:I:818:ARG:HG3	1.83	0.43
1:L:179:PHE:HB3	1:L:197:LEU:CD2	2.49	0.43
2:H:328:LEU:C	2:H:330:ASN:N	2.71	0.43
3:D:806:PHE:HE1	3:D:813:LEU:HB3	1.83	0.43
3:I:1427:SER:OG	3:I:1428:ALA:N	2.52	0.43
2:H:850:ALA:HA	3:I:632:VAL:CG1	2.49	0.43
2:M:136:ILE:O	2:M:336:VAL:HG22	2.18	0.43
3:I:160:GLU:HG3	3:I:165:LYS:HG3	2.00	0.43
2:C:636:ALA:HB3	2:C:703:ILE:HD13	1.99	0.43
2:M:207:LEU:HD23	2:M:208:ALA:N	2.33	0.43
3:D:1395:LEU:HA	3:D:1398:TRP:HD1	1.84	0.43
2:M:679:PHE:C	2:M:681:GLY:N	2.72	0.43
3:D:574:LEU:O	3:D:578:VAL:HG23	2.18	0.43
3:D:97:THR:HG21	3:D:571:LYS:CD	2.41	0.43
2:H:148:PHE:CZ	2:H:309:TYR:HD1	2.36	0.43
3:N:768:ASN:O	3:N:769:LEU:HD23	2.18	0.43
3:N:760:ARG:NH1	4:O:59:ASN:HD21	2.16	0.43
2:H:581:THR:OG1	2:H:583:LEU:CD2	2.66	0.43
2:C:740:GLU:N	2:C:740:GLU:CD	2.72	0.43
3:N:84:ILE:HG12	3:N:85:VAL:N	2.33	0.43
1:A:18:ARG:HG2	1:A:19:GLU:N	2.33	0.43
3:N:18:ILE:HG23	3:N:518:PRO:CG	2.40	0.43
3:N:18:ILE:HG21	3:N:516:ALA:CB	2.48	0.43
2:M:572:ILE:HD13	2:M:572:ILE:H	1.84	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:404:LEU:O	2:C:407:LYS:HB3	2.18	0.43
1:L:110:LYS:HA	1:L:127:LEU:O	2.19	0.43
2:H:138:SER:HB2	2:H:410:ILE:CD1	2.48	0.43
2:H:1090:LYS:HA	2:H:1093:GLN:HB2	2.01	0.43
5:Y:46:ALA:HB1	5:Y:50:GLU:OE1	2.19	0.43
3:D:486:ARG:HA	3:D:489:ARG:CD	2.48	0.43
3:N:672:ALA:O	3:N:675:ARG:HG3	2.18	0.43
5:X:29:ILE:CD1	5:X:58:ASN:HD22	2.32	0.43
2:C:940:GLU:O	2:C:943:VAL:HG12	2.18	0.43
1:B:62:LEU:HD22	1:B:63:HIS:CB	2.48	0.43
3:N:102:ILE:HD11	3:N:106:LYS:HG2	2.00	0.43
3:D:895:VAL:O	3:D:899:LEU:HG	2.19	0.43
3:D:1066:THR:HG22	3:D:1069:GLU:CG	2.48	0.43
3:I:138:LYS:HE2	3:I:138:LYS:O	2.18	0.43
3:D:679:ARG:HB3	3:D:679:ARG:CZ	2.49	0.43
2:H:603:VAL:HG23	2:H:647:GLN:O	2.18	0.43
3:I:17:LYS:O	3:I:20:SER:HB3	2.19	0.43
3:D:585:GLY:C	3:D:587:ARG:N	2.72	0.43
3:N:440:VAL:HB	3:N:441:ARG:HH21	1.84	0.43
3:N:953:ASP:OD1	3:N:1019:PRO:HG2	2.18	0.43
3:D:16:GLU:O	3:D:19:ARG:HG2	2.19	0.43
3:I:1168:MET:O	3:I:1168:MET:HE2	2.18	0.43
2:H:490:GLU:HG2	2:H:493:ARG:HH11	1.83	0.43
2:C:942:GLU:O	2:C:945:ARG:HB3	2.18	0.43
3:D:845:ASN:O	3:D:848:GLU:HB2	2.19	0.43
1:G:59:GLU:HB2	1:G:137:ARG:NH1	2.32	0.43
3:D:970:LYS:HG3	3:D:995:LEU:HD22	2.00	0.43
3:D:971:LEU:CD1	3:D:992:ILE:HG12	2.47	0.43
3:D:971:LEU:CD1	3:D:992:ILE:HG23	2.49	0.43
3:N:843:PHE:CB	3:N:866:VAL:HG22	2.31	0.43
3:N:1435:LEU:HD12	3:N:1435:LEU:HA	1.79	0.43
3:D:834:THR:OG1	3:D:838:ARG:HD3	2.19	0.43
3:D:45:PHE:CD1	3:D:522:PRO:HB3	2.54	0.43
3:N:525:ARG:HG2	3:N:525:ARG:O	2.19	0.43
2:H:676:ILE:HD11	2:H:873:PRO:CA	2.49	0.43
1:G:82:LEU:HD11	1:G:140:MET:HE3	2.01	0.43
2:H:1039:ALA:O	2:H:1042:ALA:HB3	2.18	0.43
3:I:711:LEU:HD22	3:I:714:GLN:NE2	2.34	0.43
2:M:165:LEU:HD12	2:M:166:PRO:C	2.38	0.43
3:D:1104:GLU:HG2	3:D:1461:GLY:HA3	2.01	0.43
3:D:1481:VAL:C	3:D:1483:PHE:N	2.72	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:52:ALA:HB2	1:G:171:PHE:N	2.33	0.43
3:D:1211:MET:CG	3:D:1212:ALA:H	2.30	0.43
2:H:262:ALA:O	2:H:263:ASP:C	2.57	0.43
2:H:200:LEU:HD13	2:H:300:ASP:OD1	2.18	0.43
2:H:724:ARG:O	2:H:726:ILE:HD13	2.19	0.43
1:B:147:GLY:HA3	1:B:171:PHE:CZ	2.53	0.43
2:H:271:GLU:O	2:H:272:ALA:C	2.57	0.43
2:H:218:VAL:C	2:H:220:GLY:H	2.21	0.43
2:H:218:VAL:C	2:H:220:GLY:N	2.72	0.43
2:H:310:LEU:HD12	2:H:314:THR:HG23	2.01	0.43
3:D:625:TYR:OH	3:D:655:PRO:HG2	2.18	0.43
3:D:695:ILE:HD13	3:D:717:GLN:HE22	1.84	0.43
3:D:467:GLU:O	3:D:468:LEU:C	2.56	0.43
3:I:128:TYR:HA	3:I:128:TYR:HD2	1.74	0.43
2:H:331:ARG:NH1	2:H:427:VAL:CG1	2.77	0.43
1:B:51:THR:HB	1:B:87:VAL:HG22	2.01	0.43
2:M:1018:GLN:NE2	2:M:1060:ILE:HD13	2.32	0.43
2:M:575:GLN:N	2:M:667:ALA:HB1	2.33	0.43
2:C:129:ILE:HG22	2:C:130:ASN:N	2.34	0.43
2:C:136:ILE:CG2	2:C:336:VAL:HG22	2.49	0.43
1:A:140:MET:C	1:A:140:MET:SD	2.97	0.43
3:D:1373:ARG:HB3	3:D:1374:GLN:NE2	2.34	0.43
2:H:753:ASP:O	2:H:792:VAL:HG23	2.18	0.43
5:Y:133:ARG:HA	5:Y:154:ILE:CD1	2.49	0.43
3:N:115:LEU:C	3:N:115:LEU:HD23	2.39	0.43
3:N:1366:LYS:O	3:N:1370:ILE:HG13	2.19	0.43
3:N:1123:PHE:HD1	3:N:1133:ARG:C	2.22	0.43
1:G:156:HIS:CG	1:G:157:GLY:N	2.86	0.43
2:M:524:VAL:HG11	2:M:528:GLU:HB2	2.01	0.43
5:Z:133:ARG:HE	5:Z:133:ARG:HB3	1.29	0.43
3:D:1155:VAL:C	3:D:1157:GLY:N	2.72	0.43
3:D:1263:PHE:HE2	3:D:1371:VAL:HG11	1.82	0.43
2:M:1075:ASP:OD1	4:O:28:GLN:CD	2.57	0.43
2:H:1081:VAL:HB	2:H:1086:ARG:NH2	2.29	0.43
3:I:1472:ILE:HD13	3:I:1472:ILE:O	2.18	0.43
2:M:944:LEU:HA	2:M:944:LEU:HD23	1.90	0.43
3:D:1118:ILE:N	3:D:1118:ILE:HD12	2.33	0.43
2:C:886:LEU:HD12	2:C:886:LEU:HA	1.80	0.43
4:E:31:LEU:HB3	4:E:35:PHE:HE1	1.84	0.43
3:I:1149:LEU:CD2	3:I:1164:ARG:O	2.67	0.43
3:N:562:ALA:N	3:N:563:PRO:CD	2.81	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:46:SER:HB3	2:M:856:GLU:HG2	2.00	0.43
2:H:522:VAL:HG12	2:H:523:ILE:N	2.33	0.43
3:N:1305:LEU:O	3:N:1305:LEU:HG	2.19	0.43
1:G:75:VAL:O	1:G:79:ILE:HG12	2.19	0.43
3:N:508:ARG:HB3	3:N:510:GLU:CD	2.39	0.43
2:C:640:ARG:HG2	2:C:640:ARG:HH11	1.83	0.43
2:C:237:ARG:HH11	2:C:237:ARG:HG3	1.83	0.43
5:Y:44:GLU:O	5:Y:45:ASN:CB	2.67	0.43
2:M:351:LEU:HD11	2:M:374:ASN:ND2	2.34	0.43
2:C:677:MET:HB3	2:C:987:ILE:HG23	2.00	0.43
2:C:684:PHE:CD2	2:C:685:GLU:HG2	2.54	0.43
2:C:683:ASN:CA	2:C:687:ALA:HB3	2.48	0.43
2:H:45:GLN:O	2:H:48:PHE:HB2	2.18	0.43
2:M:983:ILE:HD12	2:M:987:ILE:HG12	2.00	0.43
2:C:196:LEU:O	2:C:199:VAL:HB	2.19	0.43
3:I:771:SER:H	3:I:778:LEU:HD21	1.84	0.43
3:D:815:ALA:O	3:D:818:ARG:N	2.51	0.43
2:H:676:ILE:HD11	2:H:873:PRO:HA	2.01	0.43
3:N:806:PHE:H	3:N:832:ARG:CB	2.32	0.43
3:N:806:PHE:H	3:N:832:ARG:HB2	1.83	0.43
2:H:12:VAL:HG22	2:H:13:ILE:N	2.34	0.43
4:J:48:MET:CG	4:J:49:GLN:H	2.31	0.43
1:A:54:THR:HG21	1:A:158:ILE:HG12	1.99	0.43
3:N:704:ARG:NH1	3:N:705:ALA:CB	2.81	0.43
1:A:35:THR:HG23	1:B:42:ARG:HB2	1.99	0.43
2:H:165:LEU:HB3	2:H:265:ARG:CZ	2.48	0.43
2:C:52:PHE:HB3	2:C:53:PRO:HD3	2.00	0.43
1:B:184:THR:O	1:B:190:THR:O	2.37	0.43
3:N:695:ILE:HD11	3:N:717:GLN:CD	2.39	0.43
3:I:12:LEU:CD1	3:I:12:LEU:H	2.20	0.43
3:I:868:TYR:CG	3:I:869:MET:N	2.85	0.43
3:D:1426:LYS:HA	3:D:1426:LYS:HD3	1.75	0.43
3:I:499:VAL:HG12	3:I:503:LEU:HD12	2.01	0.43
3:D:368:VAL:H	3:D:377:VAL:HB	1.84	0.43
3:I:84:ILE:HA	3:I:87:ARG:HG2	2.00	0.43
3:D:411:THR:HG23	3:D:436:GLU:HA	2.00	0.43
2:C:587:VAL:HG11	2:C:666:LEU:HD22	2.01	0.43
2:C:1066:ALA:HA	2:C:1077:PRO:HD3	1.99	0.43
3:I:674:ARG:HB3	3:I:675:ARG:HH22	1.79	0.43
1:K:89:PHE:CE1	1:K:146:ARG:HB3	2.54	0.43
1:G:205:VAL:HG23	1:G:209:GLU:HB2	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:95:LEU:HD23	3:N:551:ASN:OD1	2.18	0.43
2:C:437:ARG:HH22	2:C:488:ALA:CA	2.32	0.43
3:N:1488:ASP:O	3:N:1489:GLN:C	2.57	0.43
3:I:153:LEU:N	3:I:153:LEU:CD1	2.82	0.43
2:H:913:GLU:H	2:H:913:GLU:HG3	1.63	0.43
3:I:1289:LYS:NZ	3:I:1306:PRO:HG3	2.34	0.43
2:C:1102:LEU:HD23	2:C:1106:ASP:HA	2.00	0.43
3:D:1197:ARG:CA	3:D:1396:GLU:HG3	2.45	0.43
2:H:922:PHE:HB2	2:H:967:PHE:CD2	2.54	0.43
5:Y:112:VAL:O	5:Y:112:VAL:HG12	2.19	0.43
5:Z:56:TRP:HA	5:Z:56:TRP:HE3	1.84	0.43
3:I:51:GLY:O	3:I:86:ARG:HG3	2.19	0.43
1:K:224:TYR:HE1	1:L:8:ALA:HB1	1.84	0.43
2:H:602:GLU:OE1	2:H:647:GLN:N	2.52	0.43
3:I:1442:ASN:O	3:I:1446:VAL:HG23	2.19	0.43
3:N:598:ARG:O	3:N:598:ARG:HG2	2.19	0.43
2:M:882:LEU:O	2:M:883:GLY:C	2.57	0.43
2:H:816:LYS:O	2:H:819:VAL:HB	2.18	0.43
2:M:1102:LEU:HD23	2:M:1106:ASP:HA	2.01	0.43
5:X:87:SER:HA	5:X:156:GLY:O	2.19	0.43
3:I:574:LEU:HD13	3:I:574:LEU:C	2.39	0.43
3:I:616:GLN:HG3	3:I:617:ASN:N	2.34	0.43
2:M:54:ILE:HG23	2:M:64:LEU:HG	2.01	0.43
3:D:1026:SER:O	3:D:1028:ALA:N	2.52	0.43
2:H:30:LEU:HA	2:H:44:ILE:HD13	2.01	0.43
1:K:176:ARG:HH12	2:M:865:THR:HB	1.84	0.43
3:N:796:ARG:CG	3:N:861:GLN:HB2	2.48	0.43
2:C:173:ASP:O	2:C:184:MET:HA	2.18	0.43
2:C:258:TYR:HE2	2:C:290:LEU:CD1	2.31	0.43
2:C:262:ALA:O	2:C:263:ASP:C	2.57	0.43
3:D:536:ALA:O	3:D:537:THR:O	2.36	0.43
3:D:539:ASP:C	3:D:540:LEU:HD22	2.39	0.43
1:F:151:VAL:HB	1:F:169:ALA:HB2	1.99	0.43
1:F:43:ILE:HG22	1:G:32:PHE:CE2	2.46	0.43
1:G:41:ARG:NH1	1:G:41:ARG:HG3	2.34	0.43
3:I:632:VAL:HG12	3:I:633:VAL:N	2.32	0.43
2:M:408:ARG:HH21	2:M:455:LEU:HD21	1.84	0.43
3:D:1211:MET:SD	3:D:1213:ARG:CG	3.06	0.43
3:D:165:LYS:HG2	3:D:166:GLN:H	1.83	0.43
2:H:139:GLN:OE1	2:H:334:ARG:HD3	2.19	0.43
2:C:1001:VAL:O	2:C:1004:LYS:O	2.36	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:705:ALA:CB	3:D:706:PRO:HD3	2.33	0.43
1:L:73:GLU:CD	1:L:130:ALA:HA	2.39	0.43
3:D:456:MET:CA	3:D:460:ALA:HB2	2.49	0.43
2:C:673:LEU:CD2	2:C:867:VAL:HA	2.49	0.43
1:F:109:VAL:HG12	1:F:129:ILE:HB	2.01	0.43
2:H:575:GLN:CG	2:H:670:GLN:HG2	2.49	0.43
3:D:204:LEU:HD11	3:D:441:ARG:HD3	2.01	0.43
3:I:355:VAL:HG22	3:I:359:ALA:HB3	2.00	0.43
1:K:165:ILE:CD1	1:K:165:ILE:H	2.23	0.43
3:I:919:PHE:HZ	3:I:1211:MET:CG	2.31	0.43
2:M:673:LEU:HD12	2:M:867:VAL:CA	2.42	0.43
3:I:1197:ARG:HD3	3:I:1198:TYR:N	2.25	0.43
3:I:631:ILE:HD11	3:I:743:ASP:CB	2.44	0.43
3:N:1381:VAL:HA	3:N:1398:TRP:CH2	2.54	0.43
2:M:1019:GLN:HG3	3:N:621:LYS:HD2	2.00	0.43
3:N:1109:GLU:CG	3:N:1201:CYS:HA	2.49	0.43
2:M:838:LYS:O	2:M:997:LEU:CD2	2.67	0.43
2:M:521:PRO:HG3	3:N:1068:LEU:HD11	2.00	0.43
2:C:615:TYR:HB2	2:C:619:ARG:HG3	2.00	0.43
3:D:465:LEU:HD13	3:D:509:PRO:O	2.18	0.43
5:X:35:GLN:O	5:X:38:GLU:N	2.52	0.43
2:C:937:ASP:H	2:C:940:GLU:CD	2.22	0.43
2:C:524:VAL:HG12	2:C:525:SER:N	2.33	0.43
3:D:1132:LEU:H	3:D:1132:LEU:CD1	2.29	0.43
5:Z:83:ILE:HD11	5:Z:151:VAL:HG21	2.00	0.43
1:A:176:ARG:HG3	1:A:200:TRP:CE3	2.53	0.43
3:D:1316:GLY:O	3:D:1317:ASP:C	2.57	0.43
2:M:523:ILE:HD13	2:M:523:ILE:C	2.38	0.43
3:D:145:VAL:O	3:D:146:PRO:O	2.37	0.43
3:D:343:LYS:HB3	3:D:344:ASP:H	1.60	0.43
1:F:122:ILE:O	1:F:122:ILE:HD12	2.19	0.43
2:H:294:GLU:H	2:H:294:GLU:HG3	1.66	0.43
5:Y:22:GLU:OE2	5:Y:25:ARG:HD2	2.19	0.43
3:D:1410:GLU:HB3	3:D:1411:GLY:H	1.63	0.43
2:H:731:GLU:C	2:H:733:ALA:H	2.23	0.43
2:H:942:GLU:O	2:H:945:ARG:HB3	2.18	0.42
2:M:542:VAL:O	2:M:543:ASN:C	2.58	0.42
2:C:676:ILE:CG1	2:C:873:PRO:HG3	2.44	0.42
2:H:54:ILE:CG2	2:H:66:LEU:HB3	2.49	0.42
3:N:843:PHE:O	3:N:866:VAL:HA	2.19	0.42
2:C:275:TYR:CZ	2:C:280:LYS:NZ	2.86	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:272:ALA:HA	2:C:464:LEU:HD13	2.01	0.42
3:N:1461:GLY:O	3:N:1464:GLU:HG2	2.18	0.42
3:D:800:LYS:HD3	3:D:803:GLY:CA	2.49	0.42
1:G:43:ILE:C	1:G:45:LEU:H	2.23	0.42
2:H:976:ASP:CG	2:H:978:ARG:H	2.22	0.42
3:I:700:VAL:HG22	3:I:718:PRO:HG3	2.00	0.42
3:N:710:ARG:C	3:N:712:GLY:N	2.72	0.42
2:M:414:GLY:C	2:M:416:GLY:H	2.23	0.42
3:D:1340:GLY:O	3:D:1344:VAL:HG23	2.18	0.42
3:D:1213:ARG:HB2	3:D:1214:PRO:CD	2.49	0.42
2:M:292:ARG:HD2	2:M:299:LYS:CD	2.49	0.42
2:C:52:PHE:CG	2:C:68:PHE:HB2	2.53	0.42
3:N:165:LYS:HD2	3:N:165:LYS:C	2.38	0.42
3:D:563:PRO:HA	2:H:223:ASP:CG	2.39	0.42
2:C:140:ILE:O	2:C:141:HIS:CB	2.64	0.42
2:H:605:LYS:O	2:H:611:ILE:HA	2.19	0.42
2:C:384:GLU:HA	2:C:388:ARG:NE	2.33	0.42
3:D:1245:GLY:O	3:D:1246:VAL:CG2	2.66	0.42
3:I:1211:MET:CG	3:I:1212:ALA:N	2.81	0.42
1:L:88:ARG:O	1:L:120:VAL:HA	2.19	0.42
2:H:343:GLN:HE21	2:H:343:GLN:CA	2.30	0.42
2:H:468:ARG:HD3	2:H:485:TYR:O	2.19	0.42
2:C:611:ILE:HG13	2:C:625:LEU:HD21	2.00	0.42
1:K:83:LYS:HD3	1:K:167:VAL:HG12	2.01	0.42
3:D:1155:VAL:HG21	3:D:1183:ILE:HG21	2.01	0.42
2:M:1021:LEU:CD2	3:N:622:ARG:HH12	2.31	0.42
3:N:1405:GLU:HG3	3:N:1406:ARG:N	2.33	0.42
1:L:99:LEU:HG	1:L:117:VAL:HG21	2.01	0.42
3:I:1462:LEU:O	3:I:1463:LYS:C	2.58	0.42
1:B:188:GLN:NE2	3:D:688:TRP:HE1	2.17	0.42
1:G:182:GLU:N	1:G:182:GLU:OE1	2.52	0.42
3:N:102:ILE:HG13	3:N:106:LYS:HB2	1.99	0.42
5:Y:5:VAL:HB	5:Y:72:ALA:CA	2.48	0.42
3:I:198:ARG:NE	3:I:198:ARG:HA	2.34	0.42
5:Y:150:ARG:HB3	5:Y:150:ARG:HH11	1.83	0.42
1:G:15:THR:O	1:G:15:THR:HG23	2.19	0.42
2:H:983:ILE:HD12	3:I:944:THR:CA	2.17	0.42
3:I:784:ASP:O	3:I:785:ILE:C	2.57	0.42
3:I:877:PRO:O	3:I:880:ILE:CG2	2.66	0.42
1:G:58:ILE:HB	1:G:61:VAL:CB	2.49	0.42
3:D:957:PRO:HG2	3:D:1007:VAL:HG22	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:863:ASP:O	2:M:863:ASP:CG	2.58	0.42
2:C:265:ARG:HD3	2:C:267:TYR:CD1	2.55	0.42
2:C:250:ARG:NE	2:C:250:ARG:HA	2.34	0.42
2:C:250:ARG:HG2	2:C:250:ARG:NH1	2.34	0.42
3:D:815:ALA:HA	3:D:818:ARG:CG	2.49	0.42
3:D:904:VAL:O	3:D:904:VAL:HG23	2.19	0.42
3:I:1451:ALA:O	3:I:1452:ILE:C	2.57	0.42
3:I:502:PHE:CZ	3:I:1452:ILE:HG23	2.54	0.42
3:D:1351:GLU:OE1	3:D:1351:GLU:HA	2.19	0.42
2:C:331:ARG:NH1	2:C:427:VAL:HG13	2.34	0.42
2:C:328:LEU:HD21	2:C:434:HIS:HA	2.01	0.42
1:F:176:ARG:O	1:F:200:TRP:CE3	2.72	0.42
1:F:41:ARG:HA	1:F:44:LEU:HD12	2.00	0.42
4:J:49:GLN:O	4:J:51:LEU:N	2.52	0.42
4:J:51:LEU:O	4:J:53:GLY:N	2.42	0.42
3:I:6:ARG:NH2	3:I:1459:LEU:O	2.52	0.42
2:M:139:GLN:HG2	2:M:339:LEU:HD21	2.00	0.42
3:I:147:VAL:HG22	3:I:149:LYS:N	2.31	0.42
3:I:187:LYS:NZ	3:I:199:LEU:HG	2.34	0.42
3:D:1357:ARG:C	3:D:1359:GLN:H	2.23	0.42
3:N:142:LEU:HD13	3:N:142:LEU:N	2.34	0.42
2:M:872:ASN:ND2	2:M:874:LEU:HD12	2.24	0.42
1:L:73:GLU:HB2	1:L:77:GLU:HB3	2.01	0.42
3:N:765:SER:OG	3:N:766:ALA:N	2.52	0.42
2:C:411:SER:OG	2:C:413:LEU:HD12	2.19	0.42
2:H:668:LEU:N	2:H:668:LEU:HD12	2.23	0.42
2:H:136:ILE:HD13	2:H:392:SER:HA	2.01	0.42
2:M:508:ILE:HG22	2:M:509:ALA:N	2.33	0.42
2:C:339:LEU:O	2:C:342:ASP:HB3	2.19	0.42
1:A:21:GLY:HA3	1:A:207:PRO:HG2	2.01	0.42
3:N:168:THR:HA	3:N:394:LEU:HD22	2.00	0.42
1:G:206:THR:HG22	1:G:209:GLU:HG3	2.01	0.42
2:H:80:GLN:O	2:H:81:ASP:C	2.58	0.42
3:N:483:HIS:CB	3:N:484:PRO:HD3	2.43	0.42
1:G:160:ASP:CB	1:G:161:ARG:HH11	2.26	0.42
2:H:259:GLY:O	2:H:291:ALA:HB2	2.19	0.42
3:D:18:ILE:CG2	3:D:518:PRO:HG3	2.46	0.42
2:M:1015:LEU:CD1	2:M:1015:LEU:H	2.30	0.42
2:H:1089:VAL:HG21	2:H:1111:ILE:CD1	2.49	0.42
2:H:1046:ALA:CB	3:I:1471:LEU:HD11	2.47	0.42
3:D:1040:GLY:O	3:D:1041:LEU:HB3	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:73:GLU:H	1:G:73:GLU:CD	2.22	0.42
2:M:692:GLU:O	2:M:696:LYS:HG3	2.19	0.42
3:N:1412:LYS:C	3:N:1414:PRO:HD3	2.38	0.42
3:D:30:GLU:O	3:D:43:GLY:HA3	2.19	0.42
3:D:975:GLU:O	3:D:979:GLU:HG3	2.19	0.42
3:D:979:GLU:O	5:X:143:PRO:HD2	2.17	0.42
3:D:1304:LYS:HZ2	3:D:1304:LYS:HB3	1.84	0.42
3:D:974:ILE:HD12	3:D:974:ILE:H	1.82	0.42
1:B:95:GLN:HE21	1:B:95:GLN:N	2.14	0.42
3:D:1401:GLU:CD	3:D:1415:VAL:CG2	2.87	0.42
3:D:398:ALA:CB	3:D:447:VAL:HA	2.49	0.42
3:D:978:TYR:HB2	3:D:983:LEU:HD12	2.00	0.42
5:Y:71:ARG:O	5:Y:71:ARG:HD2	2.19	0.42
3:N:1460:ILE:HD12	3:N:1460:ILE:O	2.19	0.42
2:H:1097:LEU:HD11	3:I:10:ILE:CD1	2.49	0.42
3:I:90:MET:HE2	3:I:519:VAL:O	2.19	0.42
3:I:90:MET:HG2	3:I:521:PRO:HD3	2.00	0.42
2:M:1040:LEU:HD12	2:M:1040:LEU:HA	1.86	0.42
2:M:1089:VAL:O	2:M:1093:GLN:HG3	2.19	0.42
3:N:1472:ILE:HA	3:N:1473:PRO:HD3	1.85	0.42
3:D:521:PRO:HA	3:D:522:PRO:HD3	1.81	0.42
3:N:90:MET:SD	3:N:520:LEU:HA	2.59	0.42
2:H:690:ILE:HD13	2:H:691:SER:C	2.39	0.42
2:H:853:LEU:HD23	2:H:858:MET:CE	2.46	0.42
3:I:956:ILE:HD11	3:I:1062:ARG:HB3	2.00	0.42
1:L:62:LEU:HA	1:L:163:ASN:HD21	1.84	0.42
4:J:31:LEU:HD12	4:J:32:ARG:N	2.34	0.42
3:I:754:PHE:HZ	4:J:21:VAL:HG13	1.84	0.42
2:M:283:ILE:HG13	2:M:284:ARG:N	2.33	0.42
1:A:154:GLU:N	1:A:154:GLU:CD	2.72	0.42
2:M:181:VAL:HG12	2:M:182:VAL:O	2.19	0.42
2:M:193:LEU:HD12	2:M:193:LEU:N	2.34	0.42
2:H:196:LEU:O	2:H:199:VAL:HB	2.20	0.42
2:H:154:ARG:HD2	2:H:156:GLY:CA	2.47	0.42
2:H:219:GLN:HA	2:H:222:MET:HG3	2.01	0.42
3:N:695:ILE:O	3:N:697:GLY:N	2.52	0.42
2:H:578:VAL:H	2:H:671:ASN:ND2	2.17	0.42
1:B:127:LEU:HD22	1:B:129:ILE:CD1	2.49	0.42
1:K:156:HIS:CG	1:K:158:ILE:HD11	2.54	0.42
2:M:1056:LYS:HG2	3:N:624:ASP:HB2	2.01	0.42
2:C:1019:GLN:O	2:C:1021:LEU:N	2.47	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:1061:GLU:CD	3:I:84:ILE:HG21	2.40	0.42
2:C:574:ALA:HB1	2:C:667:ALA:HB3	2.01	0.42
3:D:676:MET:O	3:D:680:GLN:OE1	2.37	0.42
2:H:953:VAL:HG11	2:H:962:GLN:CB	2.50	0.42
1:G:209:GLU:O	1:G:212:ASN:N	2.51	0.42
1:B:106:PRO:HA	1:B:132:LEU:O	2.19	0.42
2:H:443:THR:HG21	3:I:1078:ARG:HD2	2.00	0.42
5:Y:29:ILE:CG2	5:Y:55:MET:HG2	2.49	0.42
4:O:81:PRO:HB2	4:O:84:ARG:HB2	2.00	0.42
2:C:1069:ALA:HA	2:C:1072:LYS:HZ3	1.85	0.42
2:H:918:LEU:CD2	2:H:968:LEU:HA	2.50	0.42
3:N:1277:ILE:HG12	3:N:1299:PHE:CE1	2.53	0.42
4:E:31:LEU:HD12	4:E:32:ARG:H	1.81	0.42
3:N:433:GLY:HA3	3:N:449:SER:H	1.84	0.42
2:C:586:ARG:HB3	2:C:586:ARG:CZ	2.48	0.42
3:N:1486:VAL:HG11	4:O:25:LYS:HB2	2.01	0.42
1:G:26:GLU:OE2	1:G:194:LYS:HG3	2.19	0.42
3:I:206:ARG:HG3	3:I:207:PHE:CD1	2.55	0.42
2:C:1013:TYR:HE2	2:C:1063:ARG:NH2	2.17	0.42
2:C:460:ARG:HH11	2:C:460:ARG:HB3	1.83	0.42
3:D:153:LEU:HD12	3:D:153:LEU:C	2.40	0.42
2:H:293:PHE:HA	2:H:298:PHE:CD2	2.54	0.42
1:A:227:ASN:OD1	1:A:227:ASN:N	2.52	0.42
1:B:15:THR:O	1:B:15:THR:HG23	2.18	0.42
1:F:60:ASP:OD1	1:F:60:ASP:N	2.51	0.42
2:H:1005:MET:O	2:H:1005:MET:HG3	2.18	0.42
2:C:398:THR:O	2:C:399:ASN:HB3	2.19	0.42
3:D:757:ALA:HB1	3:D:761:ILE:HD12	2.01	0.42
3:D:1136:LYS:HB2	3:D:1139:ASP:OD2	2.19	0.42
3:I:785:ILE:O	3:I:789:LEU:HG	2.20	0.42
3:I:792:ILE:CD1	3:I:881:LEU:HD23	2.49	0.42
3:I:882:PHE:CE1	3:I:906:GLN:HG3	2.53	0.42
1:L:172:SER:C	1:L:174:VAL:N	2.72	0.42
2:H:328:LEU:N	2:H:328:LEU:CD1	2.83	0.42
2:M:952:LEU:HD12	2:M:969:GLN:HE22	1.84	0.42
2:C:195:LEU:HD23	2:C:241:LEU:HD11	2.01	0.42
2:C:239:PHE:CZ	2:C:252:LYS:HA	2.55	0.42
3:D:830:ALA:O	3:D:831:GLY:C	2.58	0.42
2:H:676:ILE:HD12	2:H:871:LEU:O	2.19	0.42
2:H:690:ILE:C	2:H:690:ILE:HD13	2.39	0.42
3:I:645:PRO:HB2	3:I:648:MET:HG3	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1194:CYS:SG	3:N:1196:THR:HB	2.59	0.42
2:M:721:ARG:CG	2:M:820:ARG:HH12	2.10	0.42
2:H:199:VAL:HG13	2:H:235:LEU:CD2	2.49	0.42
2:H:232:GLU:O	2:H:235:LEU:HG	2.19	0.42
2:H:277:ALA:O	2:H:278:GLU:C	2.57	0.42
3:N:171:LEU:HD13	3:N:390:PRO:O	2.19	0.42
3:N:783:ARG:HE	3:N:1029:ARG:HE	1.67	0.42
2:H:224:GLU:HB3	2:H:228:ALA:HB2	2.01	0.42
3:D:696:HIS:NE2	4:E:54:LEU:HD11	2.35	0.42
3:D:463:GLN:O	3:D:467:GLU:HG3	2.19	0.42
3:I:807:ALA:HB2	3:I:833:GLU:CD	2.39	0.42
3:N:644:LEU:HD23	3:N:718:PRO:HB3	2.01	0.42
3:N:778:LEU:C	3:N:780:LYS:H	2.23	0.42
3:I:105:VAL:HG21	3:I:128:TYR:HE1	1.83	0.42
2:H:1051:GLU:OE2	3:I:751:LEU:N	2.52	0.42
2:H:572:ILE:CD1	2:H:573:ARG:N	2.78	0.42
2:H:572:ILE:H	2:H:572:ILE:HG13	1.55	0.42
2:H:575:GLN:N	2:H:667:ALA:HB1	2.34	0.42
2:H:672:VAL:HG22	2:H:994:ILE:HD13	2.01	0.42
3:D:180:LYS:HZ1	3:D:357:GLU:HB2	1.83	0.42
3:I:496:LEU:CD2	3:I:1388:ARG:HD3	2.41	0.42
1:K:165:ILE:HG12	1:K:165:ILE:O	2.19	0.42
3:I:1205:TYR:CE2	3:I:1366:LYS:HD3	2.55	0.42
2:C:537:LYS:HZ2	2:C:904:PRO:HB3	1.84	0.42
3:I:1481:VAL:O	3:I:1484:THR:OG1	2.37	0.42
3:I:150:ARG:HH22	3:I:468:LEU:CD1	2.25	0.42
3:N:1408:ILE:HD12	3:N:1408:ILE:N	2.26	0.42
2:M:1:MET:HG3	2:M:899:GLN:HA	1.99	0.42
3:I:745:MET:HB3	3:I:745:MET:HE2	1.88	0.42
1:K:152:PRO:HB2	1:K:155:LYS:HB2	2.00	0.42
2:C:544:THR:O	2:C:546:LEU:N	2.52	0.42
2:H:425:PHE:HA	2:H:428:ARG:HD2	2.00	0.42
3:I:1412:LYS:C	3:I:1414:PRO:HD3	2.40	0.42
2:C:1048:THR:O	2:C:1052:MET:HG2	2.20	0.42
3:D:779:ALA:HB1	3:D:931:LEU:HD22	2.02	0.42
3:N:659:LYS:HA	3:N:659:LYS:HE3	2.00	0.42
3:I:1447:LEU:HD12	3:I:1447:LEU:N	2.34	0.42
3:I:348:GLN:HB3	3:I:349:PRO:CD	2.49	0.42
2:H:607:ASP:C	2:H:609:ASN:N	2.72	0.42
3:N:577:ALA:O	3:N:580:ALA:HB3	2.19	0.42
1:B:101:LEU:HD23	1:B:101:LEU:C	2.39	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:401:LEU:HD12	2:C:401:LEU:O	2.20	0.42
3:D:1159:ARG:HG2	3:D:1159:ARG:HH11	1.84	0.42
3:D:1168:MET:HE2	3:D:1168:MET:O	2.19	0.42
3:I:45:PHE:HE1	3:I:525:ARG:NH1	2.16	0.42
3:I:575:GLN:HA	3:I:575:GLN:OE1	2.19	0.42
3:D:782:SER:OG	3:D:783:ARG:HG2	2.19	0.42
2:H:47:ALA:HB1	2:H:348:LEU:CD2	2.49	0.42
2:C:302:VAL:HG13	2:C:303:PHE:HD1	1.83	0.42
3:D:520:LEU:HD21	3:D:524:LEU:HB3	2.02	0.42
1:G:43:ILE:C	1:G:45:LEU:N	2.73	0.42
3:N:820:GLU:OE1	3:N:836:VAL:HG21	2.18	0.42
2:H:1075:ASP:OD2	2:H:1076:VAL:N	2.52	0.42
2:H:1048:THR:HG21	3:I:763:MET:HE3	2.01	0.42
2:M:712:ALA:O	2:M:820:ARG:HG2	2.18	0.42
3:N:203:ALA:HB1	3:N:393:ILE:CG2	2.49	0.42
3:D:567:ILE:HG22	3:D:568:ARG:N	2.34	0.42
2:C:95:TYR:HA	2:C:114:PHE:CB	2.49	0.42
2:C:1008:ARG:NH2	2:C:1020:PRO:HB3	2.35	0.42
3:N:637:LEU:HD11	3:N:641:GLN:C	2.39	0.42
3:N:644:LEU:C	3:N:721:VAL:HG22	2.40	0.42
2:C:1097:LEU:HD21	3:D:103:TRP:HZ3	1.84	0.42
1:F:109:VAL:CG1	1:F:129:ILE:HB	2.49	0.42
3:I:848:GLU:HA	3:I:851:LEU:CD1	2.48	0.42
1:B:123:MET:O	1:B:125:PRO:HD3	2.18	0.42
3:D:1426:LYS:O	3:D:1429:LEU:HB2	2.20	0.42
2:C:755:LEU:HD21	2:C:792:VAL:CG2	2.49	0.42
2:C:939:ARG:HA	2:C:939:ARG:HE	1.84	0.42
2:C:91:GLN:HA	2:C:119:PRO:HA	2.00	0.42
2:C:151:ASP:OD2	2:C:152:PRO:HD2	2.18	0.42
2:C:479:VAL:O	2:C:479:VAL:HG23	2.19	0.42
1:K:230:ALA:HA	1:L:13:VAL:O	2.19	0.42
3:D:417:PRO:HG3	3:D:431:VAL:N	2.34	0.42
2:C:230:ARG:HB3	2:C:233:GLU:HB3	2.01	0.42
2:C:1032:PHE:HD2	2:C:1037:VAL:HG22	1.83	0.42
3:N:551:ASN:O	3:N:555:LYS:HG3	2.19	0.42
2:C:611:ILE:HG13	2:C:625:LEU:CD1	2.42	0.42
3:D:1495:ILE:HG13	4:E:80:VAL:CG1	2.50	0.42
3:I:602:SER:O	3:I:605:ASP:HB2	2.20	0.42
2:M:611:ILE:HG13	2:M:625:LEU:HD21	2.00	0.42
1:L:100:LEU:HB2	1:L:115:LEU:HD21	2.01	0.42
2:H:1089:VAL:HG21	2:H:1111:ILE:HD13	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:1277:ILE:HD12	3:I:1277:ILE:N	2.35	0.42
3:D:86:ARG:HG3	3:D:86:ARG:HH11	1.82	0.42
5:Z:96:SER:OG	5:Z:98:GLU:OE2	2.38	0.42
2:C:524:VAL:CG1	2:C:528:GLU:HB2	2.48	0.42
3:N:408:GLU:OE2	3:N:422:ALA:HA	2.20	0.42
3:N:1299:PHE:H	3:N:1299:PHE:HD2	1.66	0.42
3:D:99:ALA:O	3:D:458:ALA:HB1	2.19	0.42
2:M:616:GLU:C	2:M:618:GLY:H	2.22	0.42
2:M:964:LYS:O	2:M:968:LEU:HG	2.20	0.42
2:M:499:ALA:HA	2:M:532:MET:CE	2.49	0.42
3:D:1475:GLY:HA2	4:E:17:TYR:CE1	2.54	0.42
3:D:1279:GLY:HA3	3:D:1296:SER:HB3	2.01	0.42
2:M:104:ASP:O	2:M:105:THR:C	2.58	0.42
3:I:781:PRO:HB2	3:I:786:ILE:CD1	2.50	0.42
3:N:109:PRO:HB3	3:N:494:LYS:HZ1	1.84	0.42
2:H:30:LEU:HD23	2:H:340:MET:CE	2.45	0.42
3:N:831:GLY:HA3	3:N:834:THR:C	2.40	0.42
5:X:75:LEU:HD22	5:X:85:LEU:HB2	2.01	0.42
3:N:836:VAL:HG13	3:N:837:GLY:N	2.34	0.42
1:K:64:GLU:CA	1:K:75:VAL:HG11	2.43	0.42
3:I:1106:VAL:CG1	3:I:1107:VAL:N	2.82	0.42
2:C:703:ILE:HD12	2:C:703:ILE:H	1.84	0.42
2:H:829:GLN:HG3	2:H:831:ARG:NH1	2.28	0.42
2:H:162:ILE:HB	2:H:172:ILE:HG13	2.00	0.42
2:C:50:GLU:OE2	2:C:345:ARG:HB3	2.20	0.42
2:C:1095:LEU:HD22	3:D:603:LEU:HD13	2.01	0.42
2:H:310:LEU:O	2:H:314:THR:HG23	2.20	0.42
3:N:99:ALA:HB3	3:N:514:LEU:CG	2.48	0.42
4:E:51:LEU:HD12	4:E:53:GLY:H	1.85	0.42
1:L:101:LEU:CD2	1:L:140:MET:HG2	2.50	0.42
3:I:866:VAL:O	3:I:873:LEU:HD12	2.19	0.42
3:I:850:LEU:H	3:I:850:LEU:CD1	2.10	0.42
2:M:688:ILE:N	2:M:848:VAL:O	2.52	0.42
3:D:690:ALA:O	3:D:693:GLU:HB3	2.20	0.42
1:A:180:GLN:OE1	1:A:198:ARG:NH2	2.53	0.42
1:A:101:LEU:HD22	1:A:114:PHE:N	2.34	0.42
1:A:101:LEU:HB2	1:A:114:PHE:HA	2.02	0.42
1:A:142:VAL:CG2	1:A:142:VAL:O	2.66	0.42
1:G:122:ILE:C	1:G:124:ASN:H	2.23	0.42
3:I:1365:ASP:HA	3:I:1368:ILE:CD1	2.48	0.42
1:G:90:LEU:HB3	1:G:119:ASP:CB	2.41	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:150:ARG:HH12	3:I:468:LEU:CD1	2.26	0.42
1:L:83:LYS:O	1:L:170:VAL:HG21	2.19	0.42
2:H:109:LYS:NZ	2:H:369:PRO:HD3	2.34	0.42
4:E:81:PRO:HG2	4:E:84:ARG:HH11	1.84	0.42
2:M:607:ASP:HB3	2:M:610:ARG:H	1.85	0.42
3:D:15:PRO:CA	3:D:18:ILE:HG12	2.50	0.42
3:N:1094:LEU:O	3:N:1095:THR:C	2.57	0.42
3:N:176:ASP:CB	3:N:389:GLU:HG2	2.49	0.42
3:D:1197:ARG:HA	3:D:1396:GLU:CG	2.45	0.42
2:H:1008:ARG:HA	3:I:651:GLU:OE2	2.18	0.42
3:N:433:GLY:HA3	3:N:447:VAL:O	2.19	0.42
3:I:1282:ARG:HA	3:I:1315:ASP:OD1	2.19	0.42
1:F:31:GLY:O	1:F:34:VAL:HG12	2.20	0.42
3:I:212:ARG:HB3	3:I:386:HIS:CB	2.50	0.42
3:N:466:LYS:HG2	3:N:510:GLU:CG	2.50	0.42
5:X:90:GLU:HG2	5:X:101:SER:HA	2.01	0.42
3:N:480:GLU:HG3	3:N:480:GLU:O	2.19	0.42
1:L:194:LYS:O	1:L:194:LYS:HG2	2.18	0.42
3:I:1274:ILE:HG13	3:I:1274:ILE:H	1.75	0.42
3:I:578:VAL:O	3:I:582:LEU:HG	2.20	0.42
3:D:907:GLU:CD	3:D:908:LYS:N	2.73	0.42
3:N:841:TYR:HB2	3:N:864:VAL:CG1	2.47	0.42
3:N:8:VAL:O	3:N:1434:TRP:HH2	2.03	0.42
3:D:796:ARG:HD3	3:D:1017:PHE:CE1	2.55	0.42
1:F:28:LEU:HD22	1:F:32:PHE:CB	2.48	0.42
1:K:81:ASN:O	1:K:127:LEU:HD11	2.19	0.42
1:G:185:ARG:HB2	3:I:720:LEU:HD21	2.02	0.42
3:I:137:PRO:CD	3:I:453:ASP:O	2.68	0.42
2:H:755:LEU:HD12	2:H:825:VAL:HG21	2.01	0.42
1:B:80:LEU:HB3	3:D:867:ARG:NH2	2.35	0.42
1:A:73:GLU:HB2	1:A:78:ILE:HD13	2.00	0.42
3:D:473:LEU:CD1	3:D:473:LEU:H	2.29	0.42
4:O:48:MET:N	4:O:54:LEU:CB	2.82	0.42
3:D:101:HIS:CE1	3:D:582:LEU:HD21	2.55	0.42
3:I:1389:LEU:HD12	3:I:1389:LEU:O	2.19	0.42
3:I:1395:LEU:O	3:I:1395:LEU:HD23	2.20	0.42
1:A:45:LEU:HD23	1:A:174:VAL:HB	1.99	0.42
5:Z:106:SER:O	5:Z:108:ALA:N	2.53	0.42
3:I:919:PHE:HZ	3:I:1211:MET:HG3	1.84	0.42
2:C:430:VAL:CG1	3:D:1075:HIS:HA	2.50	0.42
2:M:673:LEU:CD1	2:M:867:VAL:HA	2.42	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1293:PHE:CE2	3:D:1302:GLU:HB2	2.54	0.42
3:I:368:VAL:HB	3:I:377:VAL:HB	2.01	0.42
2:M:226:VAL:HG13	2:M:227:PHE:N	2.34	0.42
1:K:218:LEU:O	1:K:222:LEU:HD13	2.20	0.42
5:X:83:ILE:CD1	5:X:89:VAL:HG21	2.47	0.42
2:H:5:ARG:HB2	2:H:902:ILE:HB	2.01	0.42
3:D:1197:ARG:CB	3:D:1396:GLU:HG3	2.50	0.42
3:D:465:LEU:CD1	3:D:512:MET:HB2	2.50	0.42
3:N:1161:GLU:OE1	3:N:1164:ARG:HB2	2.19	0.42
2:H:1067:TYR:CD1	2:H:1071:ILE:HD11	2.55	0.42
3:D:1121:PRO:HB2	3:D:1135:ARG:NH1	2.33	0.42
3:D:544:TYR:O	3:D:548:ILE:HG12	2.20	0.42
3:D:889:ALA:CB	3:D:930:LEU:HA	2.50	0.42
2:H:351:LEU:HD12	2:H:351:LEU:O	2.20	0.42
1:G:49:PRO:HA	1:G:148:VAL:HG12	2.01	0.42
3:I:926:LYS:HA	3:I:929:ARG:HD2	2.01	0.42
3:I:925:GLU:CG	3:I:926:LYS:N	2.83	0.42
2:M:107:LEU:HD11	2:M:109:LYS:CB	2.49	0.42
2:C:683:ASN:O	2:C:684:PHE:O	2.38	0.42
3:N:109:PRO:HD3	3:N:1445:HIS:NE2	2.34	0.42
3:N:839:LEU:HD22	3:N:839:LEU:N	2.34	0.42
3:N:875:THR:OG1	3:N:876:SER:N	2.49	0.42
2:M:756:VAL:CG2	2:M:790:LEU:HD22	2.49	0.42
2:M:1087:VAL:O	2:M:1091:GLU:HG3	2.20	0.42
3:N:540:LEU:N	3:N:540:LEU:HD12	2.32	0.42
2:H:673:LEU:O	2:H:869:VAL:HG12	2.20	0.42
1:L:63:HIS:CD2	3:N:813:LEU:HD11	2.55	0.42
3:N:1209:LEU:C	3:N:1211:MET:N	2.71	0.42
3:D:1323:GLN:HA	3:D:1324:PRO:HD3	1.83	0.42
2:M:218:VAL:HG23	2:M:221:LEU:HD11	2.02	0.42
1:G:51:THR:O	1:G:171:PHE:HA	2.19	0.42
2:M:257:VAL:O	2:M:263:ASP:HB2	2.20	0.42
2:H:251:ASP:C	2:H:253:ALA:N	2.72	0.42
2:H:275:TYR:C	2:H:277:ALA:N	2.73	0.42
3:N:781:PRO:CB	3:N:785:ILE:HG21	2.48	0.42
2:C:858:MET:HG3	2:C:867:VAL:CG2	2.50	0.42
2:H:1056:LYS:HE2	3:I:751:LEU:HD23	2.02	0.42
2:H:15:LEU:HD21	2:H:583:LEU:CD1	2.44	0.42
2:H:626:ARG:HB3	2:H:629:TYR:CE1	2.54	0.42
3:D:1166:LEU:CD2	3:D:1166:LEU:H	2.26	0.42
2:H:326:ASP:OD1	2:H:427:VAL:HG22	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1237:THR:O	3:D:1238:MET:CB	2.66	0.42
2:M:1059:ASP:CG	2:M:1083:GLU:HG2	2.40	0.42
2:H:21:ILE:H	2:H:21:ILE:CD1	2.12	0.42
2:M:20:GLU:HA	2:M:23:VAL:HB	2.01	0.42
2:C:479:VAL:CG1	2:C:503:LEU:HD21	2.39	0.42
1:K:165:ILE:HA	1:K:166:PRO:HD3	1.90	0.42
4:J:39:VAL:HG21	4:J:73:LEU:HD21	2.02	0.42
2:H:149:THR:O	2:H:159:ILE:HG13	2.19	0.42
3:D:136:ASP:HB3	3:D:137:PRO:CD	2.49	0.42
2:M:799:ILE:N	2:M:828:ALA:O	2.48	0.42
2:H:354:GLY:HA3	2:H:358:ARG:CZ	2.49	0.42
3:I:400:VAL:HB	3:I:445:ARG:NH2	2.35	0.42
2:C:1032:PHE:HZ	2:C:1040:LEU:HD22	1.84	0.42
5:X:103:GLN:NE2	5:X:105:VAL:HG13	2.34	0.42
2:M:525:SER:OG	2:M:527:GLU:HG2	2.19	0.42
3:N:537:THR:OG1	3:N:538:SER:N	2.53	0.42
3:N:1381:VAL:HG22	3:N:1398:TRP:CH2	2.55	0.42
3:N:1398:TRP:CE3	3:N:1417:TRP:HB3	2.55	0.42
3:N:1257:PRO:HA	3:N:1260:ILE:CD1	2.50	0.42
3:N:1087:ARG:HD2	3:N:1235:GLN:HA	2.01	0.42
1:K:61:VAL:HG12	1:K:62:LEU:N	2.35	0.42
2:H:861:LEU:CG	2:H:862:PRO:HD2	2.49	0.42
3:I:1461:GLY:N	3:I:1473:PRO:HG2	2.30	0.42
2:C:944:LEU:HD23	2:C:944:LEU:HA	1.92	0.42
2:C:107:LEU:CD2	2:C:109:LYS:H	2.31	0.42
5:X:59:GLU:O	5:X:62:ILE:HG22	2.20	0.42
2:C:586:ARG:O	2:C:589:ARG:HB3	2.18	0.42
1:B:13:VAL:O	1:B:14:ARG:HG3	2.20	0.42
3:D:398:ALA:HB2	3:D:447:VAL:HA	2.01	0.42
3:I:461:ILE:HD13	3:I:464:LEU:HD12	2.01	0.42
2:C:512:ARG:HD3	2:C:523:ILE:HG21	2.01	0.42
1:L:223:THR:C	1:L:225:PHE:H	2.23	0.42
5:Z:66:GLU:O	5:Z:67:ASP:C	2.58	0.42
2:H:237:ARG:HH11	2:H:237:ARG:HG3	1.84	0.42
2:H:441:VAL:HG12	2:H:559:LEU:HA	2.01	0.42
3:I:880:ILE:HG23	3:I:881:LEU:N	2.35	0.42
3:I:925:GLU:CG	3:I:926:LYS:H	2.32	0.42
3:I:1043:GLY:O	3:I:1057:VAL:HG23	2.19	0.42
2:H:37:GLU:C	2:H:39:ARG:H	2.22	0.42
1:K:175:ARG:CB	1:K:200:TRP:HB2	2.50	0.42
2:C:254:VAL:O	2:C:257:VAL:HB	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1112:PHE:N	2:C:1112:PHE:CD1	2.88	0.42
3:D:537:THR:C	3:D:538:SER:O	2.57	0.42
5:X:106:SER:HA	5:X:107:PRO:HD3	1.89	0.42
2:H:689:VAL:HG12	2:H:690:ILE:N	2.35	0.42
1:K:86:VAL:N	1:K:124:ASN:HD22	2.18	0.42
3:I:702:LEU:N	3:I:702:LEU:HD22	2.34	0.42
2:C:1046:ALA:HB1	3:D:1471:LEU:CG	2.48	0.42
3:I:133:ILE:CG2	3:I:454:ALA:HB1	2.50	0.42
2:H:300:ASP:C	2:H:302:VAL:N	2.72	0.42
2:H:755:LEU:CD2	2:H:755:LEU:N	2.75	0.42
3:D:642:CYS:CB	3:D:716:PHE:HB3	2.50	0.42
3:D:714:GLN:HB2	3:D:736:PHE:HZ	1.85	0.42
3:D:768:ASN:C	3:D:769:LEU:HD23	2.41	0.42
1:F:77:GLU:O	1:F:81:ASN:OD1	2.38	0.42
2:H:565:GLN:OE1	2:H:995:MET:HE2	2.19	0.42
2:H:135:VAL:HB	2:H:406:HIS:CE1	2.55	0.42
2:M:1013:TYR:OH	2:M:1063:ARG:HG3	2.20	0.42
5:Z:7:LEU:HD22	5:Z:109:GLU:CG	2.42	0.42
3:D:1374:GLN:HA	3:D:1377:LYS:HB2	2.02	0.42
2:C:537:LYS:C	2:C:539:VAL:N	2.73	0.42
2:C:1100:GLN:O	3:D:9:ARG:HB3	2.19	0.42
2:M:31:GLN:CG	2:M:45:GLN:HE22	2.31	0.42
2:H:65:VAL:C	2:H:100:LEU:HD22	2.40	0.42
3:N:907:GLU:H	3:N:910:SER:HG	1.66	0.42
3:N:1387:SER:HB3	3:N:1391:GLU:OE2	2.19	0.42
3:I:1000:THR:HA	3:I:1003:VAL:CG1	2.49	0.42
2:M:226:VAL:HG13	2:M:227:PHE:HD1	1.84	0.42
2:M:227:PHE:C	2:M:229:MET:H	2.21	0.42
1:L:156:HIS:CE1	1:L:158:ILE:H	2.38	0.42
3:D:509:PRO:O	3:D:512:MET:CG	2.68	0.42
3:D:1487:VAL:CG2	4:E:79:LEU:HD23	2.50	0.42
2:C:445:GLU:OE1	2:C:445:GLU:HA	2.19	0.42
4:J:82:GLU:HB2	4:J:83:ASP:H	1.64	0.42
1:G:182:GLU:H	1:G:182:GLU:CD	2.23	0.42
3:I:997:THR:HG21	5:Y:61:ARG:HH12	1.83	0.42
3:D:1021:TYR:O	3:D:1022:VAL:C	2.58	0.42
2:M:270:GLY:C	2:M:274:ARG:HB3	2.41	0.42
2:H:1017:THR:HG22	2:H:1018:GLN:N	2.34	0.42
2:M:1038:TRP:HA	2:M:1041:GLU:OE1	2.20	0.42
1:B:194:LYS:HZ2	1:B:196:THR:HG21	1.84	0.42
2:M:2:GLU:OE1	2:M:2:GLU:N	2.53	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:651:GLU:C	3:N:653:PHE:N	2.72	0.42
2:H:384:GLU:HG3	2:H:388:ARG:HD2	2.01	0.42
3:I:669:ASN:O	3:I:672:ALA:HB3	2.19	0.42
3:N:1154:GLU:HG3	3:N:1158:VAL:C	2.40	0.42
2:C:882:LEU:O	2:C:883:GLY:C	2.58	0.42
3:I:939:PHE:O	3:I:943:THR:HG23	2.20	0.42
3:D:782:SER:OG	3:D:783:ARG:NH1	2.53	0.42
3:D:782:SER:C	3:D:786:ILE:HD13	2.40	0.42
3:N:493:ARG:NH1	3:N:1390:LEU:O	2.53	0.42
2:M:988:VAL:HG12	3:N:948:THR:HB	2.00	0.42
1:L:176:ARG:HD2	3:N:884:ARG:HH21	1.85	0.42
2:C:487:THR:HG22	2:C:489:THR:H	1.84	0.42
3:D:817:GLU:O	3:D:821:VAL:HG23	2.20	0.42
3:I:702:LEU:HA	3:I:702:LEU:HD13	1.84	0.42
4:J:48:MET:HG3	4:J:49:GLN:N	2.34	0.42
3:N:1196:THR:O	3:N:1197:ARG:C	2.58	0.42
3:N:1207:TYR:HE2	3:N:1214:PRO:HD3	1.85	0.42
2:H:170:PRO:HG2	2:H:258:TYR:CD2	2.54	0.42
1:B:172:SER:O	1:B:174:VAL:N	2.52	0.42
1:B:53:VAL:HA	1:B:144:VAL:CG2	2.37	0.42
2:H:333:ILE:HG23	2:H:334:ARG:N	2.35	0.42
3:D:1392:GLY:N	3:D:1393:GLN:HE21	2.16	0.42
3:D:601:ARG:HH11	3:D:606:ILE:HD12	1.85	0.42
4:J:23:VAL:CG1	4:J:64:ALA:HB3	2.50	0.42
3:D:641:GLN:HB3	3:D:717:GLN:O	2.20	0.42
3:I:864:VAL:CG1	3:I:865:THR:N	2.81	0.42
1:B:86:VAL:CG1	1:B:124:ASN:HB2	2.37	0.42
1:B:124:ASN:N	1:B:125:PRO:HD3	2.33	0.42
3:D:1147:ARG:O	3:D:1165:TYR:HA	2.20	0.42
3:D:1148:VAL:O	3:D:1188:VAL:HG23	2.20	0.42
1:K:58:ILE:HA	1:K:139:ASN:O	2.20	0.42
2:M:469:THR:O	2:M:485:TYR:HA	2.20	0.42
2:C:710:ILE:HG13	2:C:758:ARG:HH11	1.85	0.42
2:C:151:ASP:CG	2:C:152:PRO:CD	2.87	0.42
3:I:1398:TRP:HZ3	3:I:1415:VAL:HB	1.84	0.42
3:N:92:HIS:HA	3:N:518:PRO:HA	2.02	0.42
2:H:483:VAL:HG12	2:H:484:VAL:N	2.35	0.42
2:H:473:ARG:NE	2:H:531:PHE:HE1	2.18	0.42
2:H:408:ARG:NH2	2:H:455:LEU:HG	2.35	0.42
2:H:346:VAL:O	2:H:350:ARG:HG2	2.19	0.42
2:M:428:ARG:NH1	2:M:428:ARG:HG2	2.35	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:X:137:VAL:HG22	5:X:150:ARG:CB	2.46	0.42
2:M:841:ASN:HB2	2:M:992:MET:HE2	2.01	0.42
2:C:1102:LEU:HB2	3:D:7:LYS:HB2	2.00	0.42
5:X:5:VAL:O	5:X:72:ALA:HA	2.20	0.42
2:C:554:ASP:OD2	2:C:556:ASN:CB	2.68	0.42
3:N:1092:GLY:O	3:N:1093:TYR:C	2.56	0.42
2:C:754:ILE:HD11	2:C:791:ARG:NH1	2.34	0.42
2:C:227:PHE:O	2:C:229:MET:N	2.51	0.42
1:L:21:GLY:O	1:L:198:ARG:HA	2.20	0.42
2:M:979:THR:HG23	2:M:981:GLU:HB3	2.02	0.42
2:M:270:GLY:O	2:M:274:ARG:HB3	2.20	0.42
3:I:208:PRO:CB	3:I:387:LEU:HD22	2.49	0.42
3:N:916:TYR:OH	3:N:1168:MET:HB2	2.20	0.42
1:F:156:HIS:CD2	1:F:157:GLY:H	2.38	0.41
1:L:151:VAL:N	1:L:169:ALA:HB3	2.19	0.41
1:L:41:ARG:NH1	1:L:177:VAL:O	2.53	0.41
1:L:43:ILE:O	1:L:45:LEU:N	2.53	0.41
2:M:100:LEU:HD13	2:M:100:LEU:C	2.40	0.41
2:H:41:ASN:O	2:H:42:VAL:C	2.58	0.41
2:C:251:ASP:C	2:C:253:ALA:N	2.73	0.41
2:M:1081:VAL:HG13	2:M:1085:PHE:CD1	2.55	0.41
3:N:1465:ASN:HD21	3:N:1470:ARG:HB3	1.85	0.41
3:I:108:VAL:CB	3:I:109:PRO:CD	2.92	0.41
5:X:15:LEU:HD11	5:X:108:ALA:O	2.20	0.41
3:N:90:MET:SD	3:N:521:PRO:HD3	2.60	0.41
2:H:683:ASN:HA	2:H:687:ALA:CB	2.49	0.41
3:N:808:THR:OG1	3:N:809:PRO:HD3	2.20	0.41
3:N:1108:ARG:NE	3:N:1198:TYR:O	2.53	0.41
2:M:165:LEU:HA	2:M:166:PRO:O	2.20	0.41
3:D:1331:ASP:HB3	3:D:1334:GLN:HB2	2.01	0.41
2:C:572:ILE:CD1	2:C:573:ARG:N	2.79	0.41
2:H:168:ARG:O	2:H:168:ARG:HG2	2.20	0.41
2:H:708:TYR:CE2	2:H:793:PRO:HG2	2.55	0.41
2:H:274:ARG:HE	2:H:285:LEU:HB3	1.85	0.41
2:C:44:ILE:CD1	2:C:44:ILE:H	2.33	0.41
3:N:395:VAL:HG12	3:N:396:VAL:N	2.35	0.41
3:D:601:ARG:HD3	3:D:606:ILE:HD13	2.02	0.41
3:D:632:VAL:HG12	3:D:633:VAL:N	2.35	0.41
3:D:637:LEU:HD12	3:D:641:GLN:OE1	2.20	0.41
1:A:86:VAL:CG1	1:A:86:VAL:O	2.67	0.41
1:F:100:LEU:O	1:F:115:LEU:HG	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:58:ILE:HD12	1:F:140:MET:CB	2.49	0.41
3:I:850:LEU:O	3:I:851:LEU:C	2.58	0.41
2:H:135:VAL:HG11	2:H:406:HIS:ND1	2.35	0.41
3:N:1422:MET:HB2	3:N:1426:LYS:CD	2.49	0.41
2:M:545:ASN:HB3	2:M:583:LEU:HD22	2.01	0.41
3:D:205:TYR:OH	3:D:208:PRO:HD3	2.20	0.41
3:I:127:LEU:HD22	3:I:134:VAL:CG2	2.50	0.41
2:C:536:PRO:O	2:C:539:VAL:HG23	2.20	0.41
2:M:689:VAL:HG12	2:M:690:ILE:N	2.35	0.41
1:K:229:GLN:HB3	1:L:12:THR:CB	2.50	0.41
3:N:1363:LEU:CD2	3:N:1363:LEU:N	2.82	0.41
2:C:622:GLU:O	2:C:623:TYR:CD2	2.72	0.41
1:A:171:PHE:O	1:A:172:SER:C	2.57	0.41
3:N:1388:ARG:N	3:N:1391:GLU:OE2	2.53	0.41
3:I:153:LEU:C	3:I:153:LEU:CD1	2.88	0.41
2:H:1085:PHE:O	2:H:1089:VAL:HG23	2.19	0.41
3:N:1375:MET:O	3:N:1421:LEU:HA	2.20	0.41
3:N:1152:GLU:HB2	3:N:1162:GLU:N	2.36	0.41
1:K:170:VAL:HG23	1:K:170:VAL:O	2.20	0.41
5:Y:36:ALA:HA	5:Y:39:GLU:OE1	2.20	0.41
3:D:1389:LEU:O	3:D:1389:LEU:HG	2.19	0.41
1:B:13:VAL:HG13	1:B:23:PHE:CE1	2.55	0.41
3:N:548:ILE:HD12	3:N:548:ILE:N	2.35	0.41
3:I:210:ARG:HH21	3:I:348:GLN:HE22	1.67	0.41
3:I:1155:VAL:C	3:I:1157:GLY:H	2.24	0.41
2:M:404:LEU:HD12	2:M:404:LEU:HA	1.86	0.41
2:M:619:ARG:HB3	2:M:619:ARG:NH1	2.35	0.41
2:C:500:ASN:ND2	2:C:500:ASN:N	2.68	0.41
3:N:545:ARG:HB3	3:N:545:ARG:NH1	2.35	0.41
2:C:480:THR:CG2	2:C:482:GLU:HG2	2.50	0.41
3:D:1326:THR:HG22	3:D:1327:ARG:N	2.35	0.41
2:C:862:PRO:HG2	2:C:973:VAL:HB	2.02	0.41
3:N:862:ASP:O	3:N:864:VAL:HG23	2.19	0.41
2:M:710:ILE:HG21	2:M:756:VAL:HG21	2.02	0.41
3:I:771:SER:CA	3:I:778:LEU:HD11	2.50	0.41
3:D:795:VAL:HG12	3:D:796:ARG:N	2.34	0.41
2:H:678:PRO:HD2	3:I:947:ILE:CD1	2.50	0.41
3:I:1020:LEU:HD11	3:I:1035:ILE:CD1	2.49	0.41
3:I:951:ILE:CD1	3:I:1062:ARG:HE	2.33	0.41
1:G:74:ASP:OD2	1:L:162:ILE:HG22	2.21	0.41
3:I:644:LEU:HA	3:I:645:PRO:HD3	1.94	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1481:VAL:HG12	3:D:1481:VAL:O	2.20	0.41
3:D:1330:ILE:HD13	3:D:1347:TYR:OH	2.20	0.41
1:B:172:SER:C	1:B:174:VAL:N	2.73	0.41
2:H:283:ILE:CG1	2:H:284:ARG:H	2.33	0.41
2:M:683:ASN:OD1	2:M:872:ASN:HB2	2.20	0.41
1:K:199:ILE:HG13	1:K:207:PRO:HB3	2.02	0.41
2:H:178:PRO:O	2:H:180:GLY:N	2.53	0.41
2:H:205:GLU:HA	2:H:209:ARG:HE	1.84	0.41
2:H:310:LEU:HD12	2:H:314:THR:CG2	2.50	0.41
4:E:48:MET:CB	4:E:54:LEU:HB2	2.45	0.41
4:O:58:PRO:HG2	4:O:63:TRP:HE1	1.85	0.41
2:H:1056:LYS:HB3	3:I:624:ASP:H	1.86	0.41
3:I:779:ALA:HB1	3:I:931:LEU:HD22	2.02	0.41
1:F:101:LEU:O	1:F:140:MET:SD	2.79	0.41
3:D:1372:VAL:HA	3:D:1375:MET:CE	2.50	0.41
1:K:102:LYS:HG2	1:K:139:ASN:CA	2.42	0.41
2:M:840:ALA:C	2:M:994:ILE:HG22	2.41	0.41
2:C:92:ALA:C	2:C:117:HIS:HB3	2.41	0.41
3:I:1379:VAL:HG11	3:I:1395:LEU:HG	2.01	0.41
1:G:121:GLU:HG2	1:G:122:ILE:N	2.35	0.41
1:G:125:PRO:O	1:G:127:LEU:N	2.52	0.41
1:G:125:PRO:C	1:G:127:LEU:H	2.23	0.41
4:J:19:LEU:O	4:J:22:VAL:HB	2.20	0.41
2:C:668:LEU:HD12	2:C:668:LEU:N	2.29	0.41
2:H:537:LYS:HE3	2:H:537:LYS:H	1.80	0.41
2:C:839:LEU:N	2:C:839:LEU:CD2	2.76	0.41
3:I:676:MET:HB3	3:I:677:LEU:CD2	2.44	0.41
3:N:95:LEU:HA	3:N:551:ASN:OD1	2.19	0.41
2:H:370:ALA:HA	2:H:373:VAL:HG12	2.03	0.41
1:A:57:TYR:CD2	1:A:161:ARG:NH2	2.88	0.41
1:K:153:ALA:N	1:K:168:ASP:OD1	2.52	0.41
3:N:209:ARG:HG2	3:N:389:GLU:O	2.20	0.41
3:N:650:LEU:HD13	3:N:688:TRP:CZ3	2.54	0.41
3:I:921:ARG:HG3	3:I:921:ARG:NH1	2.32	0.41
3:D:1031:ASN:HB3	3:D:1034:GLN:CG	2.49	0.41
1:K:68:ILE:CD1	1:K:68:ILE:N	2.83	0.41
3:D:951:ILE:HG23	3:D:952:ASP:OD1	2.21	0.41
2:M:637:LEU:HA	2:M:659:PRO:HG3	2.00	0.41
1:K:162:ILE:HD13	1:K:162:ILE:N	2.35	0.41
1:F:87:VAL:HG12	1:F:122:ILE:HG22	2.02	0.41
2:M:619:ARG:HH11	2:M:619:ARG:HB3	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:839:LEU:HD12	3:D:839:LEU:HA	1.92	0.41
2:C:507:ARG:HG2	2:C:507:ARG:HH11	1.85	0.41
1:L:68:ILE:HA	1:L:68:ILE:HD13	1.89	0.41
3:N:584:ASN:ND2	3:N:590:PRO:HD2	2.35	0.41
4:O:33:HIS:HE1	4:O:90:GLU:OE2	2.02	0.41
3:I:784:ASP:O	3:I:787:LEU:N	2.54	0.41
1:G:62:LEU:HD12	1:G:63:HIS:H	1.85	0.41
2:M:368:THR:O	2:M:372:LEU:HD13	2.20	0.41
3:D:907:GLU:HG2	3:D:1027:GLY:H	1.83	0.41
3:N:109:PRO:HD3	3:N:1445:HIS:CE1	2.55	0.41
2:M:946:ARG:HD3	2:M:984:GLU:OE1	2.20	0.41
2:M:737:LEU:HA	2:M:737:LEU:HD22	1.95	0.41
2:C:259:GLY:HA3	2:C:293:PHE:HD2	1.85	0.41
3:D:804:LEU:CD2	3:D:829:VAL:HB	2.50	0.41
3:I:111:LYS:HZ1	3:I:1452:ILE:CD1	2.33	0.41
2:H:676:ILE:HD11	2:H:873:PRO:N	2.35	0.41
3:I:951:ILE:HD13	3:I:951:ILE:C	2.41	0.41
1:L:65:PHE:CE1	3:N:813:LEU:HD13	2.56	0.41
1:K:85:LEU:HD12	1:K:124:ASN:HB2	2.02	0.41
3:I:634:GLY:O	3:I:637:LEU:HB3	2.20	0.41
3:N:1107:VAL:HG12	3:N:1218:GLY:H	1.85	0.41
2:M:334:ARG:HB3	2:M:339:LEU:CD2	2.48	0.41
3:D:1206:GLY:C	3:D:1366:LYS:HZ1	2.24	0.41
2:H:281:LEU:O	2:H:282:GLY:C	2.58	0.41
3:N:785:ILE:CG2	3:N:786:ILE:N	2.83	0.41
1:K:206:THR:HG23	1:K:208:LEU:H	1.85	0.41
3:N:999:THR:CG2	3:N:1000:THR:N	2.83	0.41
2:C:368:THR:HB	2:C:369:PRO:CD	2.38	0.41
3:I:804:LEU:CD1	3:I:804:LEU:O	2.66	0.41
2:H:1052:MET:HE1	2:H:1056:LYS:CD	2.50	0.41
1:B:99:LEU:HD12	1:B:117:VAL:CG2	2.51	0.41
2:M:569:VAL:HA	2:M:570:PRO:HD3	1.88	0.41
1:B:100:LEU:HB2	1:B:115:LEU:CD2	2.51	0.41
1:A:45:LEU:HD21	1:A:174:VAL:O	2.20	0.41
3:I:1197:ARG:HG3	3:I:1197:ARG:H	1.57	0.41
3:I:1397:LYS:O	3:I:1400:VAL:HB	2.20	0.41
3:I:1068:LEU:O	3:I:1071:PHE:N	2.54	0.41
5:Y:152:VAL:O	5:Y:153:ALA:HB2	2.21	0.41
1:K:63:HIS:HB3	2:M:799:ILE:CG2	2.46	0.41
3:N:1345:GLU:HA	3:N:1348:LEU:CD2	2.50	0.41
2:M:360:LEU:HD23	2:M:361:MET:H	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1260:ILE:H	3:N:1260:ILE:HG13	1.61	0.41
3:I:447:VAL:O	3:I:449:SER:N	2.54	0.41
2:H:910:LYS:O	2:H:911:GLU:C	2.58	0.41
1:L:156:HIS:CG	1:L:157:GLY:N	2.87	0.41
3:N:1401:GLU:O	3:N:1405:GLU:N	2.54	0.41
3:I:1426:LYS:HA	3:I:1426:LYS:HD3	1.88	0.41
3:I:466:LYS:HA	3:I:510:GLU:HG2	2.03	0.41
2:C:442:GLU:OE2	2:C:543:ASN:HB3	2.20	0.41
3:I:1363:LEU:N	3:I:1363:LEU:HD23	2.34	0.41
3:N:1330:ILE:HB	3:N:1347:TYR:CZ	2.55	0.41
3:D:128:TYR:HD2	3:D:128:TYR:HA	1.58	0.41
3:D:678:GLU:O	3:D:679:ARG:HB2	2.20	0.41
2:C:443:THR:HA	2:C:444:PRO:HD3	1.89	0.41
2:C:460:ARG:NH1	2:C:460:ARG:CB	2.83	0.41
3:D:964:LEU:HG	3:D:1058:ARG:NH2	2.35	0.41
3:N:1020:LEU:HG	3:N:1021:TYR:N	2.34	0.41
5:X:112:VAL:HG12	5:X:112:VAL:O	2.19	0.41
1:A:104:GLU:OE1	1:A:136:GLY:O	2.38	0.41
3:D:1001:GLU:O	3:D:1004:THR:HB	2.20	0.41
5:X:24:GLU:O	5:X:28:GLU:HG3	2.20	0.41
2:C:248:PRO:HD2	5:Y:82:VAL:HG21	2.02	0.41
2:M:923:GLU:O	2:M:927:GLY:HA3	2.19	0.41
5:Y:43:ARG:O	5:Y:45:ASN:OD1	2.38	0.41
2:H:1087:VAL:HG23	3:I:524:LEU:HD21	2.02	0.41
3:I:1045:MET:N	3:I:1045:MET:SD	2.93	0.41
2:C:973:VAL:HG12	2:C:974:LEU:N	2.35	0.41
2:H:97:ARG:HG2	2:H:110:GLU:OE2	2.20	0.41
3:D:813:LEU:CD1	3:D:814:ALA:HB2	2.50	0.41
3:D:817:GLU:O	3:D:817:GLU:HG2	2.20	0.41
3:N:520:LEU:HG	3:N:524:LEU:HD23	2.02	0.41
1:K:64:GLU:HG3	1:K:75:VAL:HG12	2.03	0.41
2:M:165:LEU:HA	2:M:165:LEU:HD12	1.76	0.41
2:M:456:ALA:HB3	2:M:459:ALA:CB	2.49	0.41
2:M:149:THR:CG2	2:M:159:ILE:HD11	2.50	0.41
2:M:159:ILE:HG22	2:M:175:GLU:HA	2.02	0.41
2:M:193:LEU:H	2:M:193:LEU:CD1	2.32	0.41
2:H:184:MET:HE2	2:H:303:PHE:HE2	1.85	0.41
1:B:57:TYR:O	1:B:58:ILE:HD12	2.19	0.41
3:D:844:ALA:HB1	3:D:867:ARG:CZ	2.48	0.41
3:D:395:VAL:HG22	3:D:396:VAL:N	2.35	0.41
3:N:165:LYS:HD3	3:N:167:GLU:HG3	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:871:LEU:HD13	2:M:872:ASN:O	2.20	0.41
3:N:991:GLN:CA	3:N:991:GLN:NE2	2.83	0.41
1:A:74:ASP:O	1:A:78:ILE:HG12	2.19	0.41
2:C:756:VAL:O	2:C:789:SER:HB3	2.19	0.41
2:M:685:GLU:HB3	3:N:740:PHE:HD1	1.85	0.41
2:C:134:ARG:HB3	2:C:393:GLN:O	2.20	0.41
3:I:481:MET:HG2	3:I:1388:ARG:HH21	1.79	0.41
1:K:158:ILE:O	1:K:159:LYS:HD3	2.20	0.41
2:C:578:VAL:HG13	2:C:671:ASN:HB3	2.02	0.41
2:H:497:ALA:HA	2:H:515:ALA:HB2	2.01	0.41
3:N:687:VAL:O	3:N:690:ALA:HB3	2.20	0.41
3:D:937:TYR:O	3:D:941:PHE:HD1	2.04	0.41
3:D:941:PHE:C	3:D:943:THR:H	2.23	0.41
2:H:711:GLU:OE1	2:H:822:VAL:HG12	2.21	0.41
5:Z:20:GLU:O	5:Z:23:ARG:HB2	2.21	0.41
2:M:1019:GLN:CG	3:N:621:LYS:HD2	2.49	0.41
2:H:1111:ILE:HG13	2:H:1112:PHE:N	2.35	0.41
1:A:9:PRO:HD2	1:B:224:TYR:CZ	2.55	0.41
5:Y:102:VAL:HG13	5:Y:119:ILE:HD11	2.02	0.41
2:H:1068:GLU:HG2	2:H:1072:LYS:HD2	2.00	0.41
5:X:55:MET:HB3	5:X:59:GLU:OE1	2.20	0.41
5:Y:68:ILE:O	5:Y:72:ALA:HB2	2.20	0.41
3:I:1353:GLN:HA	3:I:1353:GLN:OE1	2.20	0.41
3:N:1047:LYS:NZ	3:N:1053:PHE:HA	2.35	0.41
1:A:33:GLY:O	1:A:195:LEU:HD13	2.20	0.41
2:C:745:ILE:N	2:C:745:ILE:HD12	2.36	0.41
2:M:606:VAL:HG22	2:M:645:VAL:HG13	2.02	0.41
3:N:1410:GLU:HB2	3:N:1411:GLY:H	1.69	0.41
1:L:41:ARG:HG3	1:L:177:VAL:CG2	2.49	0.41
2:M:66:LEU:HB2	2:M:100:LEU:HD23	2.02	0.41
2:C:877:PRO:O	2:C:878:SER:C	2.56	0.41
2:H:30:LEU:HD12	2:H:30:LEU:O	2.20	0.41
2:H:31:GLN:NE2	2:H:31:GLN:O	2.53	0.41
3:N:796:ARG:HB2	3:N:828:LYS:CE	2.50	0.41
3:N:798:GLU:CG	3:N:828:LYS:HZ2	2.34	0.41
5:X:7:LEU:O	5:X:74:ILE:HA	2.20	0.41
1:F:45:LEU:N	1:F:45:LEU:CD1	2.84	0.41
1:K:77:GLU:O	1:K:81:ASN:ND2	2.53	0.41
3:N:1205:TYR:CD2	3:N:1215:VAL:HG21	2.54	0.41
3:N:710:ARG:HB2	3:N:1227:GLN:HE22	1.85	0.41
2:M:144:PRO:HB3	2:M:164:PRO:HA	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:483:HIS:CB	3:D:484:PRO:CD	2.94	0.41
1:A:55:SER:HB3	1:A:158:ILE:CG2	2.51	0.41
3:D:1208:ASP:O	3:D:1209:LEU:HB2	2.21	0.41
2:M:264:PRO:HB3	2:M:289:THR:HB	2.01	0.41
1:B:52:ALA:HB3	1:B:171:PHE:CE1	2.55	0.41
3:D:160:GLU:O	3:D:164:GLY:C	2.58	0.41
2:H:164:PRO:HB3	2:H:265:ARG:H	1.85	0.41
3:N:171:LEU:HD23	3:N:172:PRO:O	2.21	0.41
3:N:977:ALA:HB2	5:Z:112:VAL:HG11	2.03	0.41
1:A:73:GLU:HB3	1:A:77:GLU:CG	2.51	0.41
2:H:950:LEU:HD21	3:I:1017:PHE:HD1	1.83	0.41
1:F:109:VAL:HB	1:F:130:ALA:CA	2.51	0.41
1:F:73:GLU:HB2	1:F:78:ILE:HD13	2.02	0.41
2:H:610:ARG:HB2	2:H:622:GLU:CD	2.41	0.41
1:B:125:PRO:C	1:B:127:LEU:H	2.24	0.41
3:D:860:LEU:HD23	3:D:877:PRO:HB2	2.02	0.41
3:D:181:ASP:OD2	3:D:441:ARG:HD3	2.20	0.41
3:I:1379:VAL:HB	3:I:1418:LYS:O	2.21	0.41
3:D:367:ILE:HG22	3:D:368:VAL:HG23	2.02	0.41
3:N:1144:LEU:CD2	3:N:1186:VAL:HG11	2.51	0.41
2:C:1014:SER:N	2:C:1019:GLN:O	2.54	0.41
2:H:471:TYR:C	2:H:483:VAL:HG13	2.40	0.41
3:I:1071:PHE:HD1	3:I:1072:ILE:HD13	1.84	0.41
3:N:1365:ASP:O	3:N:1366:LYS:C	2.59	0.41
2:M:383:ARG:CB	2:M:383:ARG:HH11	2.25	0.41
2:C:437:ARG:HH22	2:C:488:ALA:HA	1.85	0.41
3:N:907:GLU:HG2	3:N:908:LYS:H	1.85	0.41
1:B:212:ASN:O	1:B:215:VAL:CG2	2.69	0.41
3:N:1087:ARG:HH11	3:N:1235:GLN:HA	1.85	0.41
3:N:1359:GLN:NE2	5:Z:48:TYR:OH	2.47	0.41
4:O:36:LYS:NZ	4:O:36:LYS:HA	2.35	0.41
2:M:567:GLN:O	2:M:997:LEU:HA	2.21	0.41
3:N:20:SER:C	3:N:22:SER:H	2.23	0.41
3:N:972:LEU:HD13	3:N:972:LEU:HA	1.92	0.41
3:D:6:ARG:HG3	3:D:7:LYS:HD3	2.01	0.41
5:X:115:THR:HB	5:X:116:PRO:CD	2.51	0.41
2:H:424:GLY:C	2:H:426:ASP:H	2.22	0.41
2:C:884:GLN:HB2	2:C:992:MET:HE3	2.01	0.41
3:N:1496:GLU:HA	3:N:1499:ARG:HE	1.86	0.41
2:M:855:VAL:HG22	2:M:855:VAL:O	2.19	0.41
3:I:28:LYS:CG	3:I:30:GLU:HG2	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:588:VAL:HG21	2:H:664:GLY:O	2.21	0.41
2:H:914:ILE:H	2:H:914:ILE:HD12	1.86	0.41
2:H:479:VAL:HG22	2:H:506:ASN:CA	2.50	0.41
2:H:384:GLU:CD	2:H:388:ARG:HD2	2.40	0.41
2:M:487:THR:HB	2:M:490:GLU:HG3	2.02	0.41
3:D:1272:ALA:HA	3:D:1326:THR:HB	2.01	0.41
2:C:26:TYR:CE2	2:C:30:LEU:HD21	2.55	0.41
4:E:52:GLU:OE1	4:E:52:GLU:N	2.53	0.41
5:Y:58:ASN:HD22	5:Y:58:ASN:HA	1.66	0.41
2:C:799:ILE:HG23	2:C:799:ILE:O	2.21	0.41
2:M:351:LEU:CD2	2:M:377:PRO:HB2	2.51	0.41
2:C:275:TYR:C	2:C:277:ALA:N	2.74	0.41
2:C:252:LYS:HE2	2:C:252:LYS:HB3	1.66	0.41
3:D:799:LYS:HZ2	3:D:826:PRO:CD	2.34	0.41
3:D:841:TYR:HB3	3:D:843:PHE:CE1	2.55	0.41
2:H:683:ASN:O	2:H:684:PHE:O	2.38	0.41
3:I:701:LEU:HA	3:I:715:ALA:HA	2.02	0.41
3:D:1087:ARG:NH2	3:D:1235:GLN:HE21	2.18	0.41
3:N:452:ILE:CG1	3:N:453:ASP:N	2.84	0.41
3:N:457:GLY:O	3:N:460:ALA:HB3	2.21	0.41
1:B:171:PHE:O	1:B:172:SER:C	2.58	0.41
1:B:75:VAL:O	1:B:79:ILE:HG23	2.21	0.41
3:D:1144:LEU:CD2	3:D:1186:VAL:HG11	2.50	0.41
2:H:267:TYR:HD2	2:H:267:TYR:N	2.15	0.41
3:D:625:TYR:HB3	3:D:749:VAL:HG22	2.02	0.41
3:I:799:LYS:HD2	3:I:800:LYS:C	2.41	0.41
4:O:58:PRO:HB2	4:O:59:ASN:H	1.72	0.41
3:I:511:TRP:O	3:I:512:MET:C	2.59	0.41
2:H:1052:MET:CE	2:H:1056:LYS:HD2	2.49	0.41
1:F:79:ILE:HD12	1:F:83:LYS:HE3	2.02	0.41
2:H:565:GLN:OE1	2:H:995:MET:HE1	2.19	0.41
2:M:571:LEU:HD21	2:M:700:TYR:CD2	2.56	0.41
3:D:345:TYR:CE2	3:D:377:VAL:HG13	2.56	0.41
2:M:673:LEU:HD13	2:M:673:LEU:C	2.41	0.41
2:M:673:LEU:HD22	2:M:674:VAL:H	1.86	0.41
2:M:673:LEU:O	2:M:869:VAL:HG12	2.21	0.41
2:M:689:VAL:HG12	2:M:690:ILE:H	1.85	0.41
1:K:91:ASN:HA	1:K:92:PRO:HD3	1.88	0.41
3:N:752:SER:HB3	3:N:755:ALA:HB3	2.01	0.41
3:D:881:LEU:O	3:D:882:PHE:C	2.58	0.41
3:I:908:LYS:N	3:I:1027:GLY:HA3	2.28	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:519:VAL:HA	3:N:544:TYR:HH	1.83	0.41
3:I:1424:VAL:CG1	3:I:1425:THR:N	2.84	0.41
1:K:67:THR:HG22	2:M:627:ARG:NE	2.34	0.41
3:N:933:ALA:O	3:N:937:TYR:HD1	2.04	0.41
3:D:887:ALA:HB1	3:D:893:GLU:CG	2.50	0.41
1:A:26:GLU:HB3	1:A:194:LYS:HG3	2.03	0.41
2:M:1073:GLY:N	3:N:659:LYS:HD3	2.35	0.41
3:D:651:GLU:C	3:D:653:PHE:H	2.23	0.41
2:H:1008:ARG:HG3	2:H:1027:PHE:C	2.40	0.41
1:B:73:GLU:CD	1:B:130:ALA:HA	2.41	0.41
4:E:83:ASP:O	4:E:85:LEU:N	2.54	0.41
3:D:190:GLU:HG2	3:D:196:VAL:HG22	2.03	0.41
1:K:68:ILE:HA	1:K:69:PRO:HD3	1.97	0.41
2:M:512:ARG:HD3	2:M:523:ILE:HD11	2.02	0.41
3:I:1122:LEU:O	3:I:1122:LEU:HD23	2.20	0.41
1:B:179:PHE:O	1:B:180:GLN:HG2	2.21	0.41
1:G:146:ARG:HH11	1:G:146:ARG:HG3	1.85	0.41
2:C:424:GLY:C	2:C:426:ASP:H	2.24	0.41
3:I:539:ASP:OD2	3:I:539:ASP:N	2.53	0.41
2:M:357:GLU:C	2:M:359:MET:H	2.23	0.41
3:N:616:GLN:C	3:N:618:LEU:H	2.23	0.41
3:D:874:GLU:H	3:D:874:GLU:HG2	1.52	0.41
2:H:673:LEU:HD22	2:H:674:VAL:N	2.34	0.41
4:J:48:MET:HG3	4:J:49:GLN:H	1.85	0.41
2:C:750:LYS:CE	2:C:751:PRO:HD3	2.50	0.41
3:I:162:ARG:HH12	3:I:450:TYR:HB3	1.85	0.41
3:D:1353:GLN:O	3:D:1354:LYS:C	2.58	0.41
2:H:630:ARG:HD3	2:H:705:ILE:HB	2.02	0.41
1:B:43:ILE:O	1:B:48:ILE:CD1	2.69	0.41
2:H:281:LEU:HD12	2:H:306:THR:N	2.35	0.41
2:C:48:PHE:O	2:C:50:GLU:N	2.54	0.41
2:C:66:LEU:HD23	2:C:355:VAL:HG21	2.02	0.41
3:N:1003:VAL:CG2	3:N:1004:THR:N	2.81	0.41
3:N:996:TRP:CE2	3:N:1056:PRO:HG2	2.55	0.41
3:N:982:PHE:CZ	5:Z:118:LYS:O	2.73	0.41
2:C:1020:PRO:HG2	3:D:624:ASP:OD1	2.20	0.41
3:D:654:LYS:CB	3:D:655:PRO:HD3	2.50	0.41
3:N:760:ARG:NH1	4:O:61:VAL:CG2	2.84	0.41
1:F:102:LYS:HE2	1:F:102:LYS:HB3	1.96	0.41
3:D:1369:GLU:O	3:D:1372:VAL:HG13	2.20	0.41
1:B:99:LEU:HD12	1:B:117:VAL:HG21	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:537:LYS:NZ	2:M:904:PRO:HB3	2.36	0.41
2:H:73:LEU:HD22	2:H:94:LEU:HA	2.02	0.41
1:G:122:ILE:HG13	1:G:122:ILE:O	2.20	0.41
3:D:213:VAL:HG12	3:D:214:GLU:N	2.36	0.41
3:D:142:LEU:HB2	3:D:143:ASN:H	1.66	0.41
3:N:1253:THR:CG2	3:N:1269:LYS:HB3	2.50	0.41
2:H:806:LEU:HD23	2:H:806:LEU:HA	1.92	0.41
2:C:605:LYS:HB2	2:C:612:VAL:CB	2.50	0.41
3:N:910:SER:HG	3:N:911:LEU:HD12	1.85	0.41
1:K:61:VAL:CG1	1:K:62:LEU:N	2.83	0.41
5:X:36:ALA:HA	5:X:39:GLU:HB2	2.02	0.41
3:N:30:GLU:HA	3:N:30:GLU:OE1	2.19	0.41
3:I:1041:LEU:HB2	3:I:1059:SER:O	2.20	0.41
2:C:41:ASN:HB3	2:C:42:VAL:H	1.70	0.41
1:A:11:PHE:O	1:A:11:PHE:CD2	2.74	0.41
3:I:41:ARG:HB2	3:I:41:ARG:CZ	2.51	0.41
3:I:1104:GLU:CD	3:I:1104:GLU:N	2.73	0.41
3:D:1114:THR:O	3:D:1114:THR:HG23	2.19	0.41
3:D:1401:GLU:O	3:D:1405:GLU:N	2.53	0.41
2:M:274:ARG:HD3	2:M:285:LEU:CB	2.50	0.41
3:N:1295:GLU:HB3	3:N:1300:SER:CB	2.51	0.41
2:M:258:TYR:N	2:M:258:TYR:HD1	2.18	0.41
2:C:460:ARG:HB2	2:C:460:ARG:NH1	2.36	0.41
4:J:75:PHE:N	4:J:75:PHE:CD2	2.89	0.41
3:D:476:GLU:O	3:D:479:GLU:HB2	2.21	0.41
3:I:1026:SER:C	3:I:1028:ALA:N	2.74	0.41
2:C:424:GLY:C	2:C:426:ASP:N	2.73	0.41
3:I:389:GLU:H	3:I:389:GLU:HG2	1.76	0.41
2:C:567:GLN:NE2	2:C:567:GLN:HA	2.35	0.41
1:G:223:THR:C	1:G:225:PHE:H	2.24	0.41
2:C:294:GLU:HG2	2:C:295:ASP:N	2.35	0.41
4:J:66:LYS:HE3	4:J:69:LEU:HD13	2.02	0.41
5:Y:44:GLU:H	5:Y:44:GLU:HG3	1.58	0.41
3:I:790:TYR:C	3:I:792:ILE:N	2.74	0.41
2:M:350:ARG:O	2:M:353:ARG:HB3	2.21	0.41
3:I:777:PRO:O	3:I:778:LEU:HD23	2.20	0.41
3:N:1468:LEU:CD2	3:N:1468:LEU:N	2.84	0.41
3:D:827:ILE:HD12	3:D:827:ILE:N	2.35	0.41
1:F:38:ASN:HD21	2:H:978:ARG:C	2.24	0.41
2:H:673:LEU:HD22	2:H:990:GLY:O	2.21	0.41
3:I:749:VAL:HA	3:I:750:PRO:HD3	1.91	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1209:LEU:HD12	3:N:1219:GLU:OE2	2.21	0.41
2:C:918:LEU:O	2:C:921:ALA:HB3	2.20	0.41
3:D:1256:LEU:C	3:D:1256:LEU:HD13	2.41	0.41
3:N:160:GLU:HG2	3:N:161:LEU:N	2.36	0.41
3:D:165:LYS:HG2	3:D:166:GLN:N	2.36	0.41
2:H:313:LEU:HB3	2:H:321:GLU:HG2	2.03	0.41
3:D:654:LYS:HB2	3:D:655:PRO:HD3	2.03	0.41
3:N:769:LEU:HG	3:N:924:MET:HE1	2.02	0.41
1:F:78:ILE:O	1:F:79:ILE:C	2.59	0.41
2:H:606:VAL:HG11	2:H:643:VAL:O	2.20	0.41
3:D:1149:LEU:CD1	3:D:1160:LEU:HD22	2.51	0.41
2:M:545:ASN:HB3	2:M:583:LEU:CD2	2.50	0.41
2:M:537:LYS:CE	2:M:905:ILE:HD13	2.36	0.41
2:M:473:ARG:HA	2:M:531:PHE:HD1	1.86	0.41
2:M:474:VAL:HG12	2:M:531:PHE:HA	2.02	0.41
2:C:1042:ALA:HA	3:D:1220:ALA:HB3	2.03	0.41
1:K:165:ILE:CD1	1:K:165:ILE:N	2.82	0.41
3:D:138:LYS:O	3:D:452:ILE:HG21	2.20	0.41
3:N:36:THR:C	3:N:38:LYS:N	2.73	0.41
3:D:400:VAL:HG23	3:D:443:VAL:HG21	2.01	0.41
1:G:205:VAL:HG21	1:G:209:GLU:HB2	2.02	0.41
2:H:291:ALA:O	2:H:292:ARG:CB	2.69	0.41
3:N:1099:VAL:C	3:N:1101:VAL:H	2.23	0.41
5:X:128:ALA:O	5:X:138:LEU:HD11	2.21	0.41
2:H:557:ARG:HG2	2:H:881:ASN:OD1	2.21	0.41
2:C:576:ALA:HA	2:C:577:PRO:HD3	1.98	0.41
2:C:455:LEU:HD12	2:C:456:ALA:N	2.34	0.41
1:K:133:GLU:HB3	1:K:134:GLU:H	1.69	0.41
3:D:86:ARG:NH1	3:D:86:ARG:HG3	2.36	0.41
3:N:880:ILE:HG23	3:N:881:LEU:N	2.35	0.41
2:C:559:LEU:CD2	2:C:560:MET:HE3	2.50	0.41
2:H:918:LEU:O	2:H:921:ALA:HB3	2.20	0.41
2:C:468:ARG:CB	2:C:485:TYR:HB3	2.50	0.41
3:I:983:LEU:HD21	5:Y:112:VAL:CG2	2.51	0.41
2:H:495:THR:HG23	2:H:517:ARG:HA	2.03	0.41
2:H:495:THR:HB	2:H:530:GLU:HG3	2.02	0.41
3:I:1330:ILE:HG22	3:I:1331:ASP:N	2.35	0.41
3:N:1118:ILE:HD12	3:N:1118:ILE:N	2.36	0.41
5:Y:89:VAL:HG11	5:Y:129:LEU:CD2	2.51	0.41
4:O:33:HIS:HD1	4:O:90:GLU:HG3	1.86	0.41
4:J:8:LYS:O	4:J:12:MET:HG3	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:J:33:HIS:CD2	4:J:89:MET:HG2	2.56	0.41
3:D:593:ASN:HB3	3:D:594:PRO:HD2	2.01	0.41
3:I:875:THR:HG22	3:I:876:SER:H	1.84	0.41
3:I:1065:LEU:HD11	3:I:1069:GLU:CB	2.51	0.41
2:C:678:PRO:HB2	3:D:942:SER:O	2.21	0.41
2:C:683:ASN:ND2	2:C:870:ILE:HG22	2.35	0.41
2:C:677:MET:CE	2:C:983:ILE:HD13	2.51	0.41
3:N:12:LEU:HD21	3:N:1452:ILE:O	2.21	0.41
2:H:352:ALA:HA	2:H:355:VAL:HG12	2.03	0.41
2:H:35:PRO:C	2:H:37:GLU:H	2.25	0.41
3:N:800:LYS:CE	3:N:803:GLY:HA2	2.51	0.41
2:C:275:TYR:C	2:C:277:ALA:H	2.23	0.41
2:C:258:TYR:CD2	2:C:264:PRO:HG3	2.56	0.41
2:M:1087:VAL:HG23	3:N:524:LEU:HD21	2.03	0.41
2:H:690:ILE:HG23	2:H:852:ILE:HA	2.03	0.41
2:H:684:PHE:CZ	3:I:730:PRO:HB2	2.56	0.41
1:K:122:ILE:CG2	1:K:124:ASN:H	2.34	0.41
3:I:700:VAL:CG1	3:I:718:PRO:HG2	2.49	0.41
3:I:1101:VAL:HG12	3:I:1428:ALA:HB2	2.02	0.41
3:N:711:LEU:C	3:N:713:ILE:H	2.24	0.41
3:N:703:ASN:CG	3:N:713:ILE:HG12	2.41	0.41
2:M:461:VAL:HG12	2:M:462:ASP:O	2.21	0.41
1:A:55:SER:CB	1:A:158:ILE:CG2	2.99	0.41
2:M:208:ALA:CB	2:M:222:MET:HG3	2.30	0.41
2:H:630:ARG:HH11	2:H:630:ARG:HG3	1.85	0.41
3:N:160:GLU:C	3:N:162:ARG:H	2.24	0.41
1:B:175:ARG:N	1:B:200:TRP:O	2.54	0.41
3:D:207:PHE:CE2	2:H:283:ILE:HB	2.55	0.41
3:N:165:LYS:HE2	3:N:396:VAL:HA	2.03	0.41
3:I:177:ALA:O	3:I:178:LEU:HD23	2.20	0.41
3:D:1098:LEU:CD2	3:D:1226:ALA:HA	2.50	0.41
3:I:191:LEU:HD22	3:I:393:ILE:CD1	2.50	0.41
2:H:198:ARG:HH12	2:H:231:PRO:HG3	1.85	0.41
1:L:106:PRO:HA	1:L:132:LEU:O	2.21	0.41
3:N:639:LEU:HD21	3:N:766:ALA:CB	2.50	0.41
3:N:771:SER:CB	3:N:778:LEU:HD11	2.42	0.41
2:C:858:MET:CE	2:C:859:PRO:HD2	2.51	0.41
5:Z:68:ILE:O	5:Z:69:LEU:C	2.60	0.41
3:I:841:TYR:O	3:I:864:VAL:HG12	2.21	0.41
2:C:334:ARG:HH11	2:C:418:LEU:CD2	2.34	0.41
1:G:80:LEU:HD12	3:I:844:ALA:HA	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:994:ILE:CD1	2:H:994:ILE:N	2.77	0.41
3:D:1424:VAL:O	3:D:1427:SER:HB3	2.21	0.41
2:M:835:VAL:C	2:M:837:ASP:H	2.24	0.41
2:M:503:LEU:HD21	2:M:506:ASN:CA	2.51	0.41
2:C:127:PHE:CD2	2:C:386:PHE:HE2	2.39	0.41
1:A:61:VAL:CG1	1:A:62:LEU:N	2.83	0.41
3:D:869:MET:HE2	3:D:897:TRP:HE1	1.85	0.41
5:Z:29:ILE:CG2	5:Z:55:MET:HG2	2.48	0.41
3:D:1107:VAL:O	3:D:1108:ARG:HB3	2.21	0.41
3:D:1194:CYS:SG	3:D:1196:THR:HB	2.61	0.41
3:I:1485:GLN:HG3	4:J:79:LEU:N	2.20	0.41
4:J:6:ILE:HD11	4:J:10:PHE:CZ	2.56	0.41
2:M:673:LEU:HD22	2:M:990:GLY:O	2.20	0.41
2:C:218:VAL:C	2:C:220:GLY:N	2.74	0.41
3:D:1301:LYS:HD3	3:D:1302:GLU:N	2.35	0.41
2:H:474:VAL:CG1	2:H:529:VAL:HG12	2.43	0.41
2:H:442:GLU:CD	2:H:541:SER:HB3	2.40	0.41
1:G:209:GLU:O	1:G:213:GLN:NE2	2.54	0.41
2:H:343:GLN:O	2:H:346:VAL:HB	2.21	0.41
3:N:95:LEU:CD2	3:N:574:LEU:HD21	2.42	0.41
3:N:470:LEU:HB2	3:N:503:LEU:HD21	2.02	0.41
3:N:907:GLU:CD	3:N:908:LYS:HG3	2.41	0.41
2:C:553:ASP:HA	2:C:881:ASN:HA	2.03	0.41
3:N:1225:ALA:O	3:N:1229:ILE:HG13	2.21	0.41
2:H:943:VAL:HG11	2:H:973:VAL:HG22	2.03	0.41
2:C:580:MET:O	2:C:902:ILE:HG23	2.20	0.41
1:L:99:LEU:HD21	1:L:115:LEU:O	2.20	0.41
2:M:424:GLY:C	2:M:426:ASP:H	2.23	0.41
2:M:451:LEU:HD13	2:M:451:LEU:O	2.21	0.41
2:H:1086:ARG:HD2	3:I:88:TYR:CE1	2.56	0.41
2:M:313:LEU:HD13	2:M:321:GLU:N	2.34	0.41
3:D:762:GLN:NE2	4:E:20:THR:OG1	2.51	0.41
2:M:549:PHE:H	2:M:843:HIS:HE1	1.69	0.41
2:H:1103:ASP:CG	2:H:1104:GLU:H	2.24	0.41
3:N:214:GLU:HB2	3:N:384:VAL:HB	2.03	0.41
3:I:28:LYS:CB	3:I:41:ARG:NH2	2.84	0.41
2:C:1045:ALA:HB1	2:C:1048:THR:HB	2.03	0.41
3:D:548:ILE:HD13	3:D:548:ILE:N	2.36	0.41
3:I:1282:ARG:C	3:I:1283:ILE:HD13	2.41	0.41
2:C:922:PHE:HB2	2:C:967:PHE:HD2	1.85	0.41
3:D:186:VAL:HG23	3:D:189:GLN:OE1	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:281:LEU:HD12	2:M:306:THR:N	2.36	0.41
2:M:603:VAL:O	2:M:646:GLY:HA2	2.21	0.41
3:I:20:SER:C	3:I:22:SER:H	2.24	0.41
2:M:600:ASP:CG	2:M:650:ARG:HA	2.41	0.41
2:H:555:ALA:HB2	3:I:1070:TYR:HE2	1.86	0.41
5:Z:90:GLU:HA	5:Z:100:LEU:O	2.21	0.41
3:N:409:VAL:HG23	3:N:421:LEU:O	2.21	0.41
3:N:811:GLU:HG2	3:N:815:ALA:CB	2.51	0.41
2:C:30:LEU:HD12	2:C:30:LEU:O	2.21	0.41
1:L:107:LYS:HB2	1:L:107:LYS:NZ	2.35	0.41
3:N:7:LYS:HE2	3:N:7:LYS:HB3	1.85	0.41
3:N:680:GLN:C	3:N:682:ASP:H	2.24	0.41
5:Z:155:HIS:O	5:Z:156:GLY:C	2.58	0.41
2:H:682:TYR:CD1	3:I:635:PRO:HG2	2.56	0.41
3:N:892:ASP:OD2	3:N:894:LYS:HB2	2.20	0.41
2:M:97:ARG:HG3	2:M:110:GLU:OE2	2.21	0.41
2:M:374:ASN:HD22	2:M:374:ASN:H	1.63	0.41
2:M:376:ARG:HB3	2:M:377:PRO:CD	2.49	0.41
2:C:870:ILE:HD12	2:C:870:ILE:N	2.36	0.41
2:C:678:PRO:HD3	2:C:873:PRO:CD	2.51	0.41
1:K:176:ARG:HD3	2:M:864:GLY:HA3	2.02	0.41
2:M:950:LEU:HA	2:M:950:LEU:HD22	1.95	0.41
3:N:851:LEU:O	3:N:855:HIS:HB2	2.21	0.41
2:C:164:PRO:HB3	2:C:265:ARG:HB2	2.03	0.41
3:D:829:VAL:O	3:D:835:SER:HB2	2.21	0.41
1:G:186:LEU:CG	1:G:186:LEU:O	2.69	0.41
4:J:54:LEU:HD23	4:J:54:LEU:O	2.20	0.41
2:H:793:PRO:O	2:H:794:PRO:O	2.39	0.41
2:H:802:ARG:C	2:H:803:THR:HG23	2.40	0.41
1:A:38:ASN:HB2	2:C:980:GLY:HA3	2.03	0.41
3:D:169:TYR:OH	3:D:198:ARG:HB2	2.20	0.41
2:M:683:ASN:C	2:M:687:ALA:HB3	2.42	0.41
3:D:601:ARG:HG3	3:D:605:ASP:HB2	2.03	0.41
2:H:198:ARG:NH2	2:H:203:ASP:OD2	2.54	0.41
2:H:211:LEU:HD21	2:H:221:LEU:HD21	2.03	0.41
1:A:124:ASN:HD21	1:A:127:LEU:HB2	1.86	0.41
3:N:150:ARG:HH12	3:N:468:LEU:CD1	2.26	0.41
2:C:338:GLU:O	2:C:341:THR:HG22	2.21	0.41
2:C:341:THR:O	2:C:344:PHE:HB3	2.21	0.41
1:F:57:TYR:CZ	1:F:161:ARG:HD2	2.56	0.41
1:B:85:LEU:HB2	1:B:127:LEU:HD13	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1425:THR:C	3:D:1429:LEU:HD13	2.40	0.41
2:M:1082:PRO:O	2:M:1083:GLU:C	2.60	0.41
1:A:206:THR:HG23	1:A:208:LEU:N	2.36	0.41
1:B:156:HIS:CG	1:B:157:GLY:N	2.88	0.41
3:I:355:VAL:HG23	3:I:356:PRO:HD2	2.02	0.41
2:H:1031:ARG:HG2	2:H:1032:PHE:H	1.85	0.41
1:L:86:VAL:O	1:L:123:MET:SD	2.79	0.41
3:I:912:LYS:HG2	3:I:913:ASP:N	2.36	0.41
2:M:134:ARG:NH2	2:M:393:GLN:HA	2.30	0.41
2:C:623:TYR:HA	2:C:624:PRO:HD3	1.88	0.41
1:L:66:SER:O	1:L:75:VAL:HG23	2.20	0.41
5:Z:17:GLN:HA	5:Z:20:GLU:OE1	2.21	0.41
2:M:1019:GLN:CD	3:N:621:LYS:HD2	2.42	0.41
1:A:225:PHE:HA	1:B:11:PHE:CG	2.56	0.41
3:D:553:ARG:HD2	3:D:557:LEU:CD1	2.50	0.41
3:D:6:ARG:HG3	3:D:6:ARG:O	2.21	0.41
1:L:215:VAL:CG2	1:L:216:GLU:N	2.84	0.41
3:D:115:LEU:O	3:D:115:LEU:HD23	2.20	0.41
3:D:650:LEU:HD22	3:D:688:TRP:CZ3	2.56	0.41
3:N:215:TYR:CD2	3:N:381:ALA:O	2.74	0.41
2:M:693:GLU:HB2	2:M:855:VAL:HB	2.02	0.41
3:N:1274:ILE:HG22	3:N:1323:GLN:O	2.21	0.41
3:I:1139:ASP:OD1	3:I:1357:ARG:CZ	2.69	0.41
3:I:761:ILE:HD13	3:I:761:ILE:HA	1.86	0.41
3:I:761:ILE:HG21	4:J:20:THR:HG23	2.03	0.41
3:D:153:LEU:HD11	3:D:158:TYR:HB2	2.03	0.41
3:N:918:ALA:O	3:N:921:ARG:N	2.54	0.41
3:N:181:ASP:OD1	3:N:441:ARG:HD3	2.20	0.41
1:A:159:LYS:HD3	1:A:159:LYS:HA	1.87	0.41
2:C:731:GLU:C	2:C:733:ALA:H	2.24	0.41
3:N:1137:ARG:O	3:N:1141:GLU:HG3	2.21	0.41
2:M:623:TYR:HA	2:M:624:PRO:HD3	1.84	0.41
1:G:165:ILE:N	1:G:165:ILE:CD1	2.84	0.40
1:L:171:PHE:O	1:L:172:SER:C	2.59	0.40
3:D:1020:LEU:O	3:D:1023:MET:HB2	2.21	0.40
3:N:180:LYS:HE3	3:N:180:LYS:HB3	1.95	0.40
3:N:618:LEU:HD11	3:N:1463:LYS:HZ2	1.85	0.40
1:G:43:ILE:O	1:G:45:LEU:N	2.54	0.40
2:M:163:ILE:HD13	2:M:171:TRP:CD2	2.56	0.40
3:D:1236:LEU:O	3:D:1256:LEU:HB2	2.22	0.40
2:H:160:ALA:HB3	2:H:174:LEU:HD12	2.02	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:239:PHE:C	2:H:241:LEU:N	2.75	0.40
3:N:160:GLU:C	3:N:162:ARG:N	2.74	0.40
3:N:133:ILE:CG2	3:N:454:ALA:HB1	2.51	0.40
3:N:133:ILE:HG22	3:N:454:ALA:HB1	2.02	0.40
2:H:285:LEU:O	2:H:285:LEU:HD23	2.20	0.40
3:D:732:VAL:HB	3:D:736:PHE:CE1	2.56	0.40
1:L:56:VAL:HG22	1:L:142:VAL:HG12	2.01	0.40
3:I:12:LEU:HD23	3:I:104:PHE:CE1	2.56	0.40
2:C:139:GLN:HG2	2:C:140:ILE:N	2.36	0.40
2:C:337:GLY:O	2:C:341:THR:HG22	2.21	0.40
2:M:12:VAL:CG1	2:M:534:VAL:HG13	2.51	0.40
3:I:1390:LEU:C	3:I:1391:GLU:HG3	2.41	0.40
3:D:1377:LYS:HZ3	3:D:1394:VAL:CG1	2.34	0.40
3:I:122:GLU:OE1	3:I:126:VAL:HG21	2.21	0.40
3:I:1188:VAL:CG2	3:I:1189:ARG:N	2.84	0.40
3:I:1213:ARG:CB	3:I:1214:PRO:CD	3.00	0.40
2:M:690:ILE:CD1	2:M:694:LEU:HD13	2.50	0.40
3:I:378:ILE:HG22	3:I:379:ALA:N	2.36	0.40
3:N:1350:GLU:OE2	3:N:1357:ARG:NH1	2.53	0.40
2:M:196:LEU:C	2:M:196:LEU:HD23	2.41	0.40
1:L:54:THR:HG22	1:L:158:ILE:HB	2.03	0.40
3:D:112:ILE:CG2	3:D:113:GLY:N	2.83	0.40
5:Y:103:GLN:N	5:Y:117:MET:O	2.44	0.40
2:M:1103:ASP:N	2:M:1107:ASN:O	2.52	0.40
3:N:170:PRO:HA	3:N:392:SER:CB	2.49	0.40
3:D:433:GLY:CA	3:D:449:SER:H	2.34	0.40
2:C:593:ALA:HB1	2:C:659:PRO:HD2	2.02	0.40
2:C:979:THR:HG23	2:C:981:GLU:HB2	2.03	0.40
4:O:33:HIS:CD2	4:O:89:MET:HG2	2.56	0.40
2:C:726:ILE:HG22	2:C:728:HIS:H	1.85	0.40
3:N:1103:HIS:ND1	3:N:1104:GLU:HG3	2.36	0.40
5:Z:57:GLN:O	5:Z:61:ARG:HD3	2.21	0.40
2:M:695:LEU:HG	2:M:695:LEU:O	2.20	0.40
3:D:1093:TYR:HA	3:D:1096:ARG:NH1	2.36	0.40
2:C:2:GLU:HB2	2:C:899:GLN:HB3	2.03	0.40
1:K:171:PHE:O	1:K:172:SER:C	2.59	0.40
3:N:417:PRO:HG3	3:N:431:VAL:CA	2.51	0.40
2:M:98:LEU:C	2:M:110:GLU:HG2	2.42	0.40
2:C:269:LEU:HG	2:C:285:LEU:CD2	2.51	0.40
3:N:180:LYS:HB2	3:N:183:GLU:HB2	2.03	0.40
3:D:799:LYS:HZ3	3:D:801:GLY:CA	2.34	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:800:LYS:NZ	3:D:804:LEU:HD11	2.36	0.40
2:C:508:ILE:CG2	2:C:509:ALA:N	2.85	0.40
3:N:44:LEU:CD2	3:N:44:LEU:O	2.68	0.40
2:H:976:ASP:OD2	2:H:978:ARG:CB	2.66	0.40
3:I:729:HIS:ND1	3:I:730:PRO:HD2	2.36	0.40
3:N:925:GLU:N	3:N:925:GLU:OE1	2.54	0.40
3:N:1108:ARG:NH2	3:N:1198:TYR:HB3	2.36	0.40
3:N:1198:TYR:OH	3:N:1432:LYS:NZ	2.53	0.40
3:N:1219:GLU:HA	4:O:17:TYR:OH	2.21	0.40
2:M:333:ILE:HG13	2:M:334:ARG:N	2.36	0.40
2:C:964:LYS:O	2:C:968:LEU:HG	2.21	0.40
3:I:452:ILE:CG1	3:I:453:ASP:N	2.76	0.40
2:H:249:LYS:C	2:H:251:ASP:H	2.24	0.40
2:H:720:GLU:CD	2:H:758:ARG:HD2	2.41	0.40
1:B:174:VAL:HA	1:B:200:TRP:O	2.22	0.40
3:D:199:LEU:HD22	3:D:397:LYS:HE3	2.03	0.40
3:N:785:ILE:HG23	3:N:786:ILE:H	1.84	0.40
3:I:177:ALA:HB1	3:I:191:LEU:O	2.21	0.40
3:D:122:GLU:O	3:D:123:LEU:C	2.58	0.40
2:C:1006:HIS:HB2	3:D:628:ARG:CZ	2.52	0.40
3:D:700:VAL:CG1	3:D:718:PRO:HG2	2.50	0.40
1:A:67:THR:HG22	1:A:74:ASP:CB	2.51	0.40
3:I:171:LEU:HD12	3:I:392:SER:CA	2.52	0.40
2:H:580:MET:SD	2:H:584:GLU:HG3	2.61	0.40
1:K:101:LEU:O	1:K:102:LYS:HG3	2.21	0.40
2:M:1018:GLN:CD	2:M:1060:ILE:HD13	2.41	0.40
1:A:68:ILE:O	1:A:71:VAL:HB	2.21	0.40
1:G:100:LEU:HG	1:G:115:LEU:HD11	2.02	0.40
3:N:889:ALA:CB	3:N:930:LEU:HA	2.51	0.40
1:K:28:LEU:HB2	1:K:193:ASP:HB2	2.02	0.40
3:D:172:PRO:HG2	3:D:175:VAL:CB	2.43	0.40
2:H:499:ALA:HA	2:H:532:MET:SD	2.61	0.40
2:H:551:GLU:HB3	2:H:906:PHE:CD2	2.55	0.40
3:N:1368:ILE:CD1	3:N:1368:ILE:H	2.28	0.40
2:C:838:LYS:HE2	3:D:742:GLY:HA3	2.03	0.40
1:B:106:PRO:CG	1:B:134:GLU:CD	2.88	0.40
3:N:976:GLN:O	3:N:980:MET:HG2	2.22	0.40
2:M:428:ARG:NH1	2:M:451:LEU:HB2	2.36	0.40
3:N:869:MET:HE2	3:N:897:TRP:CD1	2.56	0.40
2:C:947:ALA:HB1	2:C:953:VAL:HG23	2.03	0.40
2:C:525:SER:O	2:C:527:GLU:N	2.55	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Z:99:ARG:HH11	5:Z:99:ARG:CG	2.33	0.40
5:Y:112:VAL:HG13	5:Y:117:MET:SD	2.61	0.40
3:N:849:ALA:O	3:N:850:LEU:C	2.59	0.40
3:D:1015:TYR:N	3:D:1016:PRO:HD3	2.36	0.40
3:N:417:PRO:HG3	3:N:431:VAL:HA	2.04	0.40
2:H:928:LYS:NZ	2:H:932:GLU:HG2	2.35	0.40
1:L:217:ILE:O	1:L:220:GLU:HB3	2.20	0.40
1:A:134:GLU:OE2	1:A:134:GLU:HA	2.21	0.40
3:D:1151:ARG:H	3:D:1151:ARG:HG2	1.63	0.40
3:I:1144:LEU:O	3:I:1145:TYR:C	2.58	0.40
3:D:1404:ASN:ND2	3:D:1408:ILE:HD12	2.36	0.40
3:N:28:LYS:CD	3:N:29:PRO:HD2	2.51	0.40
5:Z:28:GLU:O	5:Z:31:ALA:HB3	2.21	0.40
3:I:786:ILE:O	3:I:787:LEU:C	2.60	0.40
2:H:431:HIS:HB3	2:H:434:HIS:CD2	2.55	0.40
2:C:974:LEU:HD22	2:C:987:ILE:HB	2.02	0.40
3:D:907:GLU:O	3:D:910:SER:N	2.54	0.40
3:N:879:ARG:NH1	3:N:905:PRO:HA	2.33	0.40
2:M:825:VAL:HG12	2:M:827:VAL:HG23	2.02	0.40
1:F:38:ASN:O	1:F:42:ARG:HG3	2.21	0.40
1:F:40:LEU:O	1:F:44:LEU:HG	2.21	0.40
1:F:38:ASN:HB2	2:H:980:GLY:HA3	2.02	0.40
1:K:112:ARG:HH21	1:K:125:PRO:HB3	1.85	0.40
3:I:1106:VAL:HG13	3:I:1219:GLU:C	2.42	0.40
3:I:637:LEU:HD11	3:I:641:GLN:C	2.42	0.40
4:J:47:LYS:CE	4:J:55:PHE:HE2	2.35	0.40
1:B:77:GLU:HB2	3:D:872:ARG:HH21	1.86	0.40
3:D:167:GLU:CD	2:H:214:TYR:HB3	2.41	0.40
2:H:274:ARG:NE	2:H:285:LEU:HB3	2.36	0.40
3:D:1392:GLY:C	3:D:1393:GLN:NE2	2.75	0.40
3:D:1232:PRO:HB2	3:D:1356:TYR:CE2	2.57	0.40
2:H:227:PHE:C	2:H:229:MET:N	2.75	0.40
3:D:712:GLY:O	3:D:713:ILE:HG13	2.22	0.40
3:I:804:LEU:HD11	3:I:832:ARG:H	1.85	0.40
4:O:51:LEU:C	4:O:53:GLY:N	2.73	0.40
3:I:4:GLU:OE1	3:I:1470:ARG:NH1	2.54	0.40
2:M:12:VAL:CG1	2:M:13:ILE:N	2.81	0.40
3:N:51:GLY:CA	3:N:86:ARG:HG3	2.45	0.40
3:D:687:VAL:O	3:D:690:ALA:HB3	2.21	0.40
2:H:21:ILE:O	2:H:25:SER:HB2	2.22	0.40
3:I:1481:VAL:O	3:I:1482:ARG:C	2.60	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:575:GLN:NE2	2:C:670:GLN:HB3	2.36	0.40
2:H:516:ARG:CG	2:H:516:ARG:O	2.65	0.40
3:N:1364:HIS:ND1	3:N:1365:ASP:N	2.69	0.40
2:M:367:LEU:CD1	2:M:371:LYS:HG2	2.44	0.40
3:I:400:VAL:CG2	3:I:443:VAL:HG21	2.47	0.40
2:M:1:MET:SD	2:M:900:ARG:CZ	3.10	0.40
2:H:395:LYS:CE	2:H:407:LYS:HE2	2.50	0.40
2:H:394:PHE:CE2	2:H:632:ASN:HB3	2.56	0.40
1:A:51:THR:HG22	1:A:89:PHE:CE2	2.56	0.40
3:N:1133:ARG:HG2	3:N:1133:ARG:HH11	1.85	0.40
3:N:1397:LYS:HA	3:N:1400:VAL:HG23	2.04	0.40
5:Z:46:ALA:O	5:Z:50:GLU:HG3	2.21	0.40
2:H:896:PHE:CE2	2:H:925:TYR:HB2	2.57	0.40
2:H:443:THR:HG1	2:H:450:GLY:H	1.66	0.40
3:I:1472:ILE:H	3:I:1472:ILE:CD1	2.34	0.40
2:H:1070:ILE:HD12	3:I:656:PHE:CE1	2.57	0.40
5:Y:132:HIS:CD2	5:Y:138:LEU:HD22	2.56	0.40
1:K:9:PRO:HA	1:K:26:GLU:O	2.21	0.40
2:M:588:VAL:HG21	2:M:664:GLY:O	2.21	0.40
3:D:26:VAL:O	3:D:93:ILE:CD1	2.69	0.40
3:N:508:ARG:HD3	3:N:510:GLU:OE2	2.21	0.40
2:M:439:CYS:HB2	2:M:541:SER:H	1.86	0.40
1:B:180:GLN:HB2	1:B:196:THR:HG1	1.87	0.40
2:M:430:VAL:HG13	2:M:430:VAL:O	2.20	0.40
2:M:430:VAL:CG1	3:N:1075:HIS:HA	2.51	0.40
2:C:35:PRO:C	2:C:37:GLU:H	2.25	0.40
3:I:988:ARG:HG3	3:I:988:ARG:HH11	1.86	0.40
3:I:1105:ILE:O	3:I:1105:ILE:HG22	2.22	0.40
2:C:809:GLY:O	2:C:811:PRO:HD3	2.21	0.40
2:C:365:ASP:N	2:C:365:ASP:OD1	2.54	0.40
3:I:1049:SER:OG	3:I:1050:GLY:N	2.54	0.40
3:I:877:PRO:HA	3:I:880:ILE:CG2	2.52	0.40
1:L:41:ARG:HD3	1:L:179:PHE:CE2	2.56	0.40
3:D:787:LEU:CD2	3:D:942:SER:HB2	2.50	0.40
3:N:111:LYS:NZ	3:N:1452:ILE:HD11	2.37	0.40
2:M:860:HIS:NE2	2:M:975:TYR:HB2	2.36	0.40
2:C:193:LEU:O	2:C:194:VAL:C	2.60	0.40
3:I:924:MET:O	3:I:927:THR:HB	2.21	0.40
2:H:869:VAL:CG2	2:H:870:ILE:N	2.84	0.40
2:H:1076:VAL:HG21	3:I:752:SER:CA	2.44	0.40
3:I:1106:VAL:HG22	3:I:1220:ALA:HA	2.04	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:653:PHE:CE2	3:I:695:ILE:HD13	2.56	0.40
3:N:702:LEU:HA	3:N:746:ALA:O	2.20	0.40
2:M:141:HIS:CB	2:M:418:LEU:CB	3.00	0.40
3:D:1209:LEU:HD13	3:D:1215:VAL:HA	2.03	0.40
2:H:252:LYS:HD2	2:H:255:ALA:CB	2.52	0.40
3:D:1123:PHE:HB3	3:D:1133:ARG:O	2.22	0.40
2:C:359:MET:C	2:C:359:MET:SD	2.99	0.40
3:N:728:LEU:HD12	3:N:729:HIS:N	2.35	0.40
3:N:747:VAL:HG13	3:N:747:VAL:O	2.21	0.40
3:I:650:LEU:HA	3:I:691:LEU:HD21	2.02	0.40
1:B:85:LEU:CD1	1:B:124:ASN:HD22	2.33	0.40
3:D:1152:GLU:OE1	3:D:1161:GLU:HA	2.21	0.40
3:D:1368:ILE:O	3:D:1372:VAL:HG12	2.21	0.40
2:M:700:TYR:C	2:M:833:LEU:HD13	2.42	0.40
2:M:670:GLN:O	2:M:994:ILE:HD12	2.21	0.40
2:C:393:GLN:NE2	2:C:406:HIS:HE1	2.19	0.40
2:C:178:PRO:C	2:C:180:GLY:N	2.73	0.40
3:I:495:ARG:O	3:I:499:VAL:HG23	2.22	0.40
2:M:572:ILE:CD1	2:M:701:THR:HB	2.39	0.40
3:D:1106:VAL:HG21	3:D:1474:ALA:HB2	2.03	0.40
1:K:54:THR:CG2	1:K:158:ILE:HG13	2.38	0.40
2:C:569:VAL:O	2:C:571:LEU:N	2.55	0.40
2:H:516:ARG:NH1	2:H:516:ARG:H	2.19	0.40
1:L:122:ILE:C	1:L:124:ASN:H	2.24	0.40
2:M:367:LEU:HD22	2:M:371:LYS:CE	2.43	0.40
2:H:544:THR:C	2:H:546:LEU:N	2.75	0.40
2:M:45:GLN:HG3	2:M:71:TYR:CE2	2.56	0.40
2:H:1004:LYS:HG2	3:I:744:GLN:NE2	2.37	0.40
1:A:169:ALA:HB1	1:A:171:PHE:CE2	2.56	0.40
3:N:1127:GLU:HB2	3:N:1133:ARG:NE	2.29	0.40
2:M:705:ILE:H	2:M:705:ILE:HD12	1.84	0.40
3:N:129:PHE:O	3:N:568:ARG:NH2	2.41	0.40
2:M:1019:GLN:HB2	2:M:1021:LEU:CD1	2.51	0.40
3:N:976:GLN:HE21	3:N:976:GLN:HB2	1.60	0.40
2:H:260:LEU:HB3	2:H:291:ALA:CB	2.49	0.40
3:I:1359:GLN:HE22	5:Y:52:ARG:NH2	2.20	0.40
2:M:723:THR:C	2:M:725:ASP:H	2.25	0.40
2:C:943:VAL:CG1	2:C:944:LEU:H	2.33	0.40
3:D:688:TRP:HA	3:D:688:TRP:CE3	2.57	0.40
5:Y:102:VAL:CG1	5:Y:119:ILE:HD11	2.52	0.40
2:C:704:HIS:O	2:C:828:ALA:CB	2.69	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:1071:ILE:O	2:M:1071:ILE:HG22	2.22	0.40
3:I:1236:LEU:HD13	3:I:1256:LEU:HA	2.03	0.40
3:D:989:TYR:OH	3:D:1052:THR:O	2.38	0.40
2:M:143:SER:O	2:M:276:LYS:HE2	2.21	0.40
2:M:397:GLU:C	2:M:399:ASN:N	2.75	0.40
3:N:1283:ILE:HD11	3:N:1315:ASP:CB	2.52	0.40
2:M:532:MET:HE3	2:M:533:ASP:O	2.22	0.40
2:C:497:ALA:HA	2:C:515:ALA:HA	2.04	0.40
2:C:243:ARG:HG2	2:C:243:ARG:HH11	1.86	0.40
3:I:1195:GLN:HE21	3:I:1195:GLN:HB2	1.70	0.40
3:I:775:GLY:HA3	3:I:1145:TYR:HE1	1.86	0.40
3:N:29:PRO:HG3	3:N:549:ASN:ND2	2.36	0.40
3:N:1061:PHE:HA	3:N:1061:PHE:HD1	1.77	0.40
2:M:651:LYS:O	2:M:651:LYS:HG3	2.21	0.40
3:I:1124:GLN:NE2	3:I:1133:ARG:HD2	2.36	0.40
1:K:49:PRO:HB3	1:K:148:VAL:HG22	2.04	0.40
3:I:862:ASP:O	3:I:877:PRO:HD3	2.21	0.40
3:D:911:LEU:O	3:D:914:LEU:HB3	2.21	0.40
2:H:48:PHE:O	2:H:50:GLU:N	2.55	0.40
2:M:873:PRO:HB3	3:N:949:ILE:CD1	2.52	0.40
2:C:267:TYR:N	2:C:267:TYR:HD2	2.17	0.40
3:D:834:THR:HG1	3:D:838:ARG:HB2	1.84	0.40
1:G:172:SER:O	1:G:174:VAL:N	2.54	0.40
1:K:124:ASN:N	1:K:125:PRO:HD3	2.37	0.40
1:K:80:LEU:CD2	1:K:81:ASN:OD1	2.70	0.40
2:M:22:GLN:HB3	2:M:121:MET:CE	2.52	0.40
3:I:137:PRO:HD2	3:I:453:ASP:O	2.21	0.40
2:M:218:VAL:C	2:M:220:GLY:H	2.24	0.40
3:D:1236:LEU:HD22	3:D:1359:GLN:HG3	2.02	0.40
4:E:4:PRO:O	4:E:6:ILE:N	2.55	0.40
2:M:292:ARG:HE	2:M:292:ARG:HA	1.85	0.40
2:H:250:ARG:HH22	2:H:252:LYS:CG	2.34	0.40
2:H:754:ILE:CG2	2:H:756:VAL:O	2.69	0.40
2:H:164:PRO:HB3	2:H:265:ARG:HB2	2.03	0.40
2:C:51:THR:OG1	2:C:348:LEU:HB3	2.21	0.40
3:I:808:THR:OG1	3:I:809:PRO:HD3	2.21	0.40
3:I:817:GLU:O	3:I:821:VAL:HG23	2.21	0.40
2:M:1008:ARG:HD2	2:M:1027:PHE:O	2.21	0.40
1:F:100:LEU:HD21	1:F:102:LYS:HE3	2.03	0.40
1:F:138:LEU:HD12	1:F:139:ASN:N	2.36	0.40
2:H:545:ASN:O	2:H:581:THR:HG21	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:848:VAL:HG12	2:H:849:VAL:H	1.87	0.40
2:C:975:TYR:HA	2:C:982:PRO:CA	2.46	0.40
3:D:900:ILE:HG12	3:D:901:GLN:N	2.37	0.40
3:D:1107:VAL:HB	3:D:1218:GLY:N	2.35	0.40
3:N:930:LEU:HG	3:N:934:LEU:HD11	2.04	0.40
1:K:181:VAL:N	2:M:937:ASP:OD1	2.55	0.40
2:H:496:ILE:HB	2:H:516:ARG:CD	2.52	0.40
2:H:1002:GLU:C	2:H:1004:LYS:H	2.24	0.40
2:H:373:VAL:CG2	2:H:374:ASN:N	2.82	0.40
3:N:907:GLU:HG2	3:N:1027:GLY:H	1.86	0.40
3:D:1155:VAL:CG1	3:D:1182:GLU:OE1	2.70	0.40
3:N:1256:LEU:O	3:N:1257:PRO:C	2.60	0.40
2:M:302:VAL:C	2:M:305:PRO:HD2	2.42	0.40
4:O:23:VAL:O	4:O:27:ALA:HB2	2.22	0.40
4:O:24:ALA:O	4:O:27:ALA:HB3	2.21	0.40
2:M:449:ILE:C	2:M:451:LEU:H	2.25	0.40
2:C:900:ARG:HH21	2:C:900:ARG:HD2	1.75	0.40
1:B:26:GLU:CB	1:B:27:PRO:HA	2.51	0.40
1:K:133:GLU:OE1	2:M:605:LYS:HG3	2.21	0.40
2:C:445:GLU:HG3	2:C:560:MET:HE1	2.04	0.40
3:D:1045:MET:HE3	3:D:1073:SER:HA	2.02	0.40
2:C:586:ARG:HA	2:C:586:ARG:HH11	1.86	0.40
2:C:746:GLY:O	2:C:799:ILE:HD11	2.21	0.40
2:M:10:ARG:NE	2:M:10:ARG:HA	2.36	0.40
2:M:390:GLN:CD	2:M:390:GLN:H	2.25	0.40
2:C:570:PRO:HD2	2:C:635:THR:HG21	2.04	0.40
3:I:1192:LEU:HD11	3:I:1369:GLU:HG2	2.03	0.40
3:D:575:GLN:O	3:D:579:ASP:OD2	2.40	0.40
3:D:959:GLU:O	3:D:962:GLN:HB3	2.22	0.40

There are no symmetry-related clashes.

5.3 Torsion angles ⓘ

5.3.1 Protein backbone ⓘ

In the following table, the Percentiles column shows the percent Ramachandran outliers of the chain as a percentile score with respect to all 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	221/315 (70%)	167 (76%)	41 (19%)	13 (6%)	2	27
1	B	222/315 (70%)	171 (77%)	43 (19%)	8 (4%)	4	40
1	F	221/315 (70%)	166 (75%)	41 (19%)	14 (6%)	2	26
1	G	221/315 (70%)	168 (76%)	43 (20%)	10 (4%)	3	34
1	K	223/315 (71%)	173 (78%)	39 (18%)	11 (5%)	3	32
1	L	222/315 (70%)	165 (74%)	47 (21%)	10 (4%)	3	34
2	C	1074/1119 (96%)	774 (72%)	213 (20%)	87 (8%)	1	18
2	H	1075/1119 (96%)	766 (71%)	223 (21%)	86 (8%)	1	19
2	M	1074/1119 (96%)	765 (71%)	222 (21%)	87 (8%)	1	18
3	D	1326/1524 (87%)	943 (71%)	271 (20%)	112 (8%)	1	17
3	I	1308/1524 (86%)	958 (73%)	247 (19%)	103 (8%)	1	19
3	N	1313/1524 (86%)	953 (73%)	258 (20%)	102 (8%)	1	20
4	E	91/99 (92%)	66 (72%)	18 (20%)	7 (8%)	1	20
4	J	91/99 (92%)	62 (68%)	22 (24%)	7 (8%)	1	20
4	O	91/99 (92%)	58 (64%)	27 (30%)	6 (7%)	1	25
5	X	152/156 (97%)	125 (82%)	21 (14%)	6 (4%)	4	37
5	Y	152/156 (97%)	118 (78%)	23 (15%)	11 (7%)	1	22
5	Z	152/156 (97%)	119 (78%)	24 (16%)	9 (6%)	2	27
All	All	9229/10584 (87%)	6717 (73%)	1823 (20%)	689 (8%)	1	21

All (689) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	133	GLU
1	A	171	PHE
1	A	228	PRO
1	B	118	ALA
1	B	126	ASP
1	B	171	PHE
2	C	12	VAL
2	C	23	VAL
2	C	39	ARG
2	C	40	GLU
2	C	41	ASN
2	C	73	LEU
2	C	80	GLN
2	C	129	ILE

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Mol	Chain	Res	Type
2	C	152	PRO
2	C	181	VAL
2	C	231	PRO
2	C	261	ILE
2	C	627	ARG
2	C	684	PHE
2	C	807	ARG
2	C	1005	MET
2	C	1058	ASP
3	D	31	THR
3	D	110	SER
3	D	143	ASN
3	D	146	PRO
3	D	540	LEU
3	D	670	VAL
3	D	735	ALA
3	D	783	ARG
3	D	908	LYS
3	D	924	MET
3	D	1091	SER
3	D	1125	PRO
3	D	1130	ARG
3	D	1197	ARG
3	D	1208	ASP
3	D	1238	MET
3	D	1239	ARG
3	D	1242	HIS
3	D	1243	THR
3	D	1246	VAL
3	D	1252	ILE
4	E	58	PRO
4	E	60	ALA
4	E	82	GLU
1	F	171	PHE
1	G	118	ALA
1	G	119	ASP
1	G	171	PHE
2	H	12	VAL
2	H	23	VAL
2	H	39	ARG
2	H	40	GLU
2	H	41	ASN

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Mol	Chain	Res	Type
2	H	152	PRO
2	H	231	PRO
2	H	261	ILE
2	H	283	ILE
2	H	290	LEU
2	H	627	ARG
2	H	684	PHE
2	H	685	GLU
2	H	905	ILE
2	H	1018	GLN
2	H	1058	ASP
3	I	31	THR
3	I	143	ASN
3	I	467	GLU
3	I	540	LEU
3	I	560	GLN
3	I	617	ASN
3	I	621	LYS
3	I	696	HIS
3	I	735	ALA
3	I	783	ARG
3	I	1125	PRO
3	I	1208	ASP
3	I	1286	THR
3	I	1407	LEU
3	I	1408	ILE
4	J	58	PRO
4	J	82	GLU
1	K	119	ASP
1	K	171	PHE
1	L	118	ALA
1	L	171	PHE
2	M	12	VAL
2	M	23	VAL
2	M	40	GLU
2	M	41	ASN
2	M	50	GLU
2	M	105	THR
2	M	129	ILE
2	M	152	PRO
2	M	181	VAL
2	M	231	PRO

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Mol	Chain	Res	Type
2	M	283	ILE
2	M	466	PHE
2	M	627	ARG
2	M	684	PHE
2	M	807	ARG
2	M	1005	MET
2	M	1018	GLN
2	M	1058	ASP
2	M	1097	LEU
3	N	31	THR
3	N	110	SER
3	N	143	ASN
3	N	467	GLU
3	N	526	PRO
3	N	670	VAL
3	N	735	ALA
3	N	783	ARG
3	N	1091	SER
3	N	1125	PRO
3	N	1197	ARG
3	N	1205	TYR
3	N	1208	ASP
3	N	1296	SER
3	N	1407	LEU
3	N	1408	ILE
4	O	58	PRO
4	O	82	GLU
5	X	41	ASP
5	X	45	ASN
5	Y	151	VAL
5	Z	43	ARG
5	Z	45	ASN
5	Z	110	ALA
1	A	30	ARG
1	A	119	ASP
1	B	29	GLU
2	C	11	GLU
2	C	50	GLU
2	C	105	THR
2	C	107	LEU
2	C	141	HIS
2	C	156	GLY

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Mol	Chain	Res	Type
2	C	252	LYS
2	C	253	ALA
2	C	283	ILE
2	C	325	ILE
2	C	368	THR
2	C	369	PRO
2	C	466	PHE
2	C	517	ARG
2	C	545	ASN
2	C	646	GLY
2	C	685	GLU
2	C	850	ALA
2	C	877	PRO
2	C	905	ILE
2	C	1012	PRO
2	C	1018	GLN
2	C	1033	GLY
2	C	1055	LEU
2	C	1059	ASP
2	C	1096	ALA
2	C	1097	LEU
3	D	102	ILE
3	D	137	PRO
3	D	149	LYS
3	D	162	ARG
3	D	382	GLU
3	D	454	ALA
3	D	503	LEU
3	D	523	ASP
3	D	537	THR
3	D	538	SER
3	D	560	GLN
3	D	619	LEU
3	D	679	ARG
3	D	737	ASN
3	D	803	GLY
3	D	831	GLY
3	D	1028	ALA
3	D	1109	GLU
3	D	1250	ALA
3	D	1265	ALA
3	D	1268	PRO

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Mol	Chain	Res	Type
3	D	1286	THR
3	D	1296	SER
3	D	1338	ALA
3	D	1407	LEU
3	D	1410	GLU
3	D	1444	THR
3	D	1446	VAL
4	E	5	GLY
4	E	42	PRO
1	F	30	ARG
1	F	75	VAL
1	F	119	ASP
1	F	228	PRO
1	G	126	ASP
1	G	187	GLY
2	H	44	ILE
2	H	50	GLU
2	H	80	GLN
2	H	105	THR
2	H	107	LEU
2	H	129	ILE
2	H	156	GLY
2	H	181	VAL
2	H	252	LYS
2	H	253	ALA
2	H	282	GLY
2	H	368	THR
2	H	369	PRO
2	H	423	ALA
2	H	466	PHE
2	H	517	ARG
2	H	538	GLN
2	H	548	PRO
2	H	850	ALA
2	H	877	PRO
2	H	878	SER
2	H	1097	LEU
3	I	110	SER
3	I	137	PRO
3	I	146	PRO
3	I	149	LYS
3	I	448	GLU

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Mol	Chain	Res	Type
3	I	537	THR
3	I	737	ASN
3	I	803	GLY
3	I	896	ALA
3	I	1019	PRO
3	I	1028	ALA
3	I	1067	VAL
3	I	1108	ARG
3	I	1109	GLU
3	I	1130	ARG
3	I	1146	GLY
3	I	1197	ARG
3	I	1265	ALA
3	I	1386	ASP
3	I	1416	ALA
3	I	1444	THR
3	I	1446	VAL
4	J	42	PRO
1	K	29	GLU
1	K	30	ARG
1	K	133	GLU
1	K	183	ASP
1	K	229	GLN
1	L	126	ASP
2	M	31	GLN
2	M	39	ARG
2	M	90	TYR
2	M	107	LEU
2	M	156	GLY
2	M	209	ARG
2	M	253	ALA
2	M	261	ILE
2	M	290	LEU
2	M	292	ARG
2	M	325	ILE
2	M	369	PRO
2	M	456	ALA
2	M	517	ARG
2	M	548	PRO
2	M	646	GLY
2	M	685	GLU
2	M	699	PHE

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Mol	Chain	Res	Type
2	M	1033	GLY
2	M	1059	ASP
3	N	137	PRO
3	N	146	PRO
3	N	149	LYS
3	N	161	LEU
3	N	382	GLU
3	N	460	ALA
3	N	523	ASP
3	N	540	LEU
3	N	560	GLN
3	N	696	HIS
3	N	803	GLY
3	N	924	MET
3	N	1028	ALA
3	N	1049	SER
3	N	1108	ARG
3	N	1109	GLU
3	N	1130	ARG
3	N	1269	LYS
3	N	1386	ASP
4	O	42	PRO
5	Y	42	LEU
5	Y	45	ASN
5	Z	70	SER
5	Z	71	ARG
5	Z	115	THR
1	A	75	VAL
1	B	125	PRO
2	C	31	GLN
2	C	116	GLY
2	C	228	ALA
2	C	282	GLY
2	C	292	ARG
2	C	316	GLY
2	C	323	ASP
2	C	456	ALA
2	C	538	GLN
2	C	548	PRO
2	C	626	ARG
2	C	680	ASP
2	C	797	GLY

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Mol	Chain	Res	Type
2	C	812	GLY
2	C	880	MET
2	C	1057	SER
3	D	94	GLU
3	D	96	ALA
3	D	119	SER
3	D	123	LEU
3	D	136	ASP
3	D	448	GLU
3	D	586	ARG
3	D	594	PRO
3	D	696	HIS
3	D	804	LEU
3	D	808	THR
3	D	1019	PRO
3	D	1108	ARG
3	D	1156	LEU
3	D	1251	ASP
3	D	1288	GLU
3	D	1298	GLY
3	D	1317	ASP
3	D	1386	ASP
3	D	1408	ILE
3	D	1440	PHE
3	D	1441	GLN
4	E	84	ARG
1	F	59	GLU
1	F	125	PRO
1	F	133	GLU
1	F	137	ARG
1	G	160	ASP
1	G	208	LEU
2	H	31	GLN
2	H	90	TYR
2	H	144	PRO
2	H	224	GLU
2	H	263	ASP
2	H	292	ARG
2	H	365	ASP
2	H	456	ALA
2	H	680	ASP
2	H	794	PRO

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Mol	Chain	Res	Type
2	H	807	ARG
2	H	809	GLY
2	H	880	MET
2	H	909	ALA
2	H	912	PRO
2	H	1005	MET
2	H	1057	SER
2	H	1059	ASP
3	I	37	LEU
3	I	136	ASP
3	I	454	ALA
3	I	468	LEU
3	I	507	ASN
3	I	523	ASP
3	I	582	LEU
3	I	784	ASP
3	I	808	THR
3	I	826	PRO
3	I	869	MET
3	I	870	GLY
3	I	908	LYS
3	I	924	MET
3	I	1091	SER
3	I	1096	ARG
3	I	1205	TYR
3	I	1207	TYR
3	I	1287	GLU
3	I	1338	ALA
3	I	1410	GLU
3	I	1425	THR
3	I	1462	LEU
4	J	50	THR
4	J	60	ALA
1	K	228	PRO
1	L	44	LEU
1	L	187	GLY
2	M	205	GLU
2	M	252	LYS
2	M	368	THR
2	M	538	GLN
2	M	617	ASP
2	M	680	ASP

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Mol	Chain	Res	Type
2	M	850	ALA
2	M	877	PRO
3	N	41	ARG
3	N	119	SER
3	N	132	TYR
3	N	160	GLU
3	N	454	ALA
3	N	468	LEU
3	N	503	LEU
3	N	582	LEU
3	N	679	ARG
3	N	737	ASN
3	N	808	THR
3	N	826	PRO
3	N	1019	PRO
3	N	1265	ALA
3	N	1286	THR
3	N	1287	GLU
3	N	1288	GLU
3	N	1298	GLY
3	N	1338	ALA
3	N	1384	PRO
3	N	1410	GLU
4	O	52	GLU
4	O	60	ALA
5	X	117	MET
5	Y	43	ARG
5	Y	46	ALA
5	Y	52	ARG
5	Y	94	PRO
5	Y	114	ASP
1	A	94	LEU
1	A	182	GLU
1	B	119	ASP
2	C	42	VAL
2	C	144	PRO
2	C	320	HIS
2	C	457	ALA
2	C	729	LEU
2	C	809	GLY
2	C	856	GLU
2	C	1017	THR

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Mol	Chain	Res	Type
3	D	467	GLU
3	D	599	PRO
3	D	832	ARG
3	D	870	GLY
3	D	896	ALA
3	D	960	LYS
3	D	1205	TYR
3	D	1414	PRO
3	D	1448	THR
3	D	1452	ILE
4	E	52	GLU
1	F	183	ASP
2	H	11	GLU
2	H	42	VAL
2	H	49	ARG
2	H	73	LEU
2	H	112	GLU
2	H	207	LEU
2	H	228	ALA
2	H	268	ASP
2	H	272	ALA
2	H	374	ASN
2	H	862	PRO
3	I	119	SER
3	I	503	LEU
3	I	670	VAL
3	I	804	LEU
3	I	822	ALA
3	I	830	ALA
3	I	1058	ARG
3	I	1111	ASP
3	I	1196	THR
3	I	1288	GLU
3	I	1412	LYS
3	I	1489	GLN
4	J	52	GLU
4	J	84	ARG
1	L	85	LEU
2	M	80	GLN
2	M	112	GLU
2	M	144	PRO
2	M	207	LEU

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Mol	Chain	Res	Type
2	M	319	GLY
2	M	320	HIS
2	M	323	ASP
2	M	423	ALA
2	M	465	GLY
2	M	626	ARG
2	M	729	LEU
2	M	739	GLU
2	M	880	MET
2	M	909	ALA
2	M	1017	THR
2	M	1057	SER
3	N	96	ALA
3	N	102	ILE
3	N	123	LEU
3	N	136	ASP
3	N	184	GLU
3	N	424	GLY
3	N	599	PRO
3	N	655	PRO
3	N	832	ARG
3	N	1041	LEU
3	N	1050	GLY
3	N	1053	PHE
3	N	1058	ARG
3	N	1100	ASP
3	N	1111	ASP
3	N	1444	THR
3	N	1463	LYS
5	X	151	VAL
1	A	29	GLU
1	A	72	LYS
1	A	204	SER
1	B	208	LEU
2	C	53	PRO
2	C	263	ASP
2	C	319	GLY
2	C	423	ALA
2	C	526	PRO
2	C	865	THR
2	C	912	PRO
3	D	507	ASN

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Mol	Chain	Res	Type
3	D	620	GLY
3	D	655	PRO
3	D	826	PRO
3	D	834	THR
3	D	857	ILE
3	D	1058	ARG
3	D	1207	TYR
3	D	1332	PRO
3	D	1425	THR
3	D	1482	ARG
1	F	102	LYS
1	G	44	LEU
1	G	172	SER
1	G	214	ALA
2	H	53	PRO
2	H	204	GLN
2	H	570	PRO
2	H	646	GLY
2	H	751	PRO
2	H	865	THR
3	I	96	ALA
3	I	102	ILE
3	I	160	GLU
3	I	382	GLU
3	I	424	GLY
3	I	460	ALA
3	I	483	HIS
3	I	1037	GLN
3	I	1100	ASP
3	I	1138	ALA
3	I	1268	PRO
3	I	1414	PRO
1	K	125	PRO
1	K	126	ASP
1	L	172	SER
1	L	208	LEU
2	M	17	PRO
2	M	49	ARG
2	M	53	PRO
2	M	141	HIS
2	M	263	ASP
2	M	378	LEU

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Mol	Chain	Res	Type
2	M	545	ASN
2	M	865	THR
2	M	905	ILE
2	M	1055	LEU
3	N	20	SER
3	N	108	VAL
3	N	483	HIS
3	N	594	PRO
3	N	617	ASN
3	N	711	LEU
3	N	743	ASP
3	N	849	ALA
3	N	870	GLY
3	N	1332	PRO
3	N	1414	PRO
3	N	1416	ALA
5	X	107	PRO
5	Y	73	VAL
5	Y	74	ILE
5	Z	46	ALA
5	Z	67	ASP
5	Z	107	PRO
1	B	172	SER
2	C	209	ARG
2	C	254	VAL
2	C	570	PRO
2	C	699	PHE
3	D	743	ASP
3	D	775	GLY
3	D	822	ALA
3	D	1100	ASP
3	D	1411	GLY
3	D	1463	LYS
1	F	182	GLU
2	H	205	GLU
2	H	457	ALA
2	H	727	PRO
3	I	393	ILE
3	I	593	ASN
3	I	1156	LEU
3	I	1298	GLY
3	I	1415	VAL

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Mol	Chain	Res	Type
1	K	75	VAL
2	M	42	VAL
2	M	809	GLY
2	M	1096	ALA
3	N	37	LEU
3	N	563	PRO
3	N	857	ILE
3	N	891	GLU
3	N	1440	PHE
3	N	1452	ILE
5	X	115	THR
5	Y	154	ILE
2	C	587	VAL
2	C	727	PRO
2	C	1099	VAL
3	D	483	HIS
3	D	1040	GLY
3	D	1067	VAL
3	D	1128	VAL
3	D	1146	GLY
3	D	1244	GLY
3	D	1385	GLY
1	F	157	GLY
2	H	319	GLY
2	H	325	ILE
2	H	608	GLY
3	I	589	ALA
3	I	594	PRO
3	I	655	PRO
3	I	1128	VAL
1	L	125	PRO
2	M	501	THR
2	M	727	PRO
2	M	876	VAL
2	M	912	PRO
2	M	1012	PRO
3	N	1040	GLY
3	N	1128	VAL
3	N	1411	GLY
3	N	1415	VAL
1	A	173	PRO
2	C	424	GLY

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Mol	Chain	Res	Type
3	D	593	ASN
3	D	1050	GLY
3	D	1324	PRO
2	H	1033	GLY
3	I	108	VAL
3	I	1040	GLY
3	I	1332	PRO
2	M	751	PRO
2	M	797	GLY
3	N	1268	PRO
2	C	17	PRO
2	C	751	PRO
2	C	1020	PRO
3	D	1027	GLY
1	F	173	PRO
2	H	336	VAL
2	H	797	GLY
3	I	356	PRO
3	I	522	PRO
3	I	665	GLY
3	I	1050	GLY
3	I	1384	PRO
2	M	812	GLY
2	M	862	PRO
2	M	1020	PRO
3	N	356	PRO
3	N	775	GLY
3	N	1146	GLY
3	N	1446	VAL
1	A	166	PRO
2	C	108	ILE
3	D	522	PRO
3	D	563	PRO
2	H	812	GLY
3	I	1452	ILE
1	L	173	PRO
2	M	641	PRO
4	O	5	GLY
3	D	412	GLY
2	H	377	PRO
2	H	465	GLY
2	H	911	GLU

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Mol	Chain	Res	Type
3	I	1385	GLY
3	N	1324	PRO
3	N	1371	VAL

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	196/273 (72%)	163 (83%)	33 (17%)	2	20
1	B	197/273 (72%)	161 (82%)	36 (18%)	2	16
1	F	196/273 (72%)	160 (82%)	36 (18%)	2	15
1	G	196/273 (72%)	163 (83%)	33 (17%)	2	20
1	K	196/273 (72%)	168 (86%)	28 (14%)	4	27
1	L	197/273 (72%)	160 (81%)	37 (19%)	2	15
2	C	909/941 (97%)	763 (84%)	146 (16%)	3	22
2	H	910/941 (97%)	762 (84%)	148 (16%)	3	21
2	M	909/941 (97%)	763 (84%)	146 (16%)	3	22
3	D	1124/1279 (88%)	948 (84%)	176 (16%)	3	23
3	I	1114/1279 (87%)	951 (85%)	163 (15%)	4	26
3	N	1120/1279 (88%)	946 (84%)	174 (16%)	3	24
4	E	82/88 (93%)	69 (84%)	13 (16%)	3	23
4	J	82/88 (93%)	70 (85%)	12 (15%)	4	26
4	O	82/88 (93%)	68 (83%)	14 (17%)	2	19
5	X	128/129 (99%)	111 (87%)	17 (13%)	5	30
5	Y	128/129 (99%)	108 (84%)	20 (16%)	3	23
5	Z	128/129 (99%)	104 (81%)	24 (19%)	2	15
All	All	7894/8949 (88%)	6638 (84%)	1256 (16%)	3	23

All (1256) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	18	ARG
1	A	19	GLU
1	A	20	TYR
1	A	29	GLU
1	A	30	ARG
1	A	32	PHE
1	A	43	ILE
1	A	45	LEU
1	A	60	ASP
1	A	62	LEU
1	A	64	GLU
1	A	76	VAL
1	A	78	ILE
1	A	79	ILE
1	A	96	THR
1	A	112	ARG
1	A	113	ASP
1	A	119	ASP
1	A	138	LEU
1	A	140	MET
1	A	143	ARG
1	A	145	ASP
1	A	156	HIS
1	A	160	ASP
1	A	161	ARG
1	A	180	GLN
1	A	183	ASP
1	A	184	THR
1	A	189	ARG
1	A	193	ASP
1	A	206	THR
1	A	212	ASN
1	A	227	ASN
1	B	16	GLN
1	B	25	LEU
1	B	26	GLU
1	B	38	ASN
1	B	47	SER
1	B	59	GLU
1	B	60	ASP
1	B	62	LEU
1	B	64	GLU
1	B	65	PHE

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Mol	Chain	Res	Type
1	B	73	GLU
1	B	74	ASP
1	B	78	ILE
1	B	88	ARG
1	B	95	GLN
1	B	98	THR
1	B	100	LEU
1	B	113	ASP
1	B	121	GLU
1	B	122	ILE
1	B	123	MET
1	B	138	LEU
1	B	145	ASP
1	B	155	LYS
1	B	156	HIS
1	B	159	LYS
1	B	160	ASP
1	B	161	ARG
1	B	165	ILE
1	B	168	ASP
1	B	176	ARG
1	B	179	PHE
1	B	186	LEU
1	B	193	ASP
1	B	218	LEU
1	B	227	ASN
2	C	4	LYS
2	C	6	PHE
2	C	10	ARG
2	C	15	LEU
2	C	28	ARG
2	C	30	LEU
2	C	40	GLU
2	C	49	ARG
2	C	52	PHE
2	C	56	GLU
2	C	66	LEU
2	C	71	TYR
2	C	73	LEU
2	C	94	LEU
2	C	98	LEU
2	C	99	GLN

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Mol	Chain	Res	Type
2	C	110	GLU
2	C	114	PHE
2	C	117	HIS
2	C	120	LEU
2	C	122	THR
2	C	130	ASN
2	C	138	SER
2	C	144	PRO
2	C	149	THR
2	C	157	ARG
2	C	158	TYR
2	C	165	LEU
2	C	171	TRP
2	C	172	ILE
2	C	174	LEU
2	C	196	LEU
2	C	198	ARG
2	C	203	ASP
2	C	205	GLU
2	C	209	ARG
2	C	216	GLU
2	C	217	LEU
2	C	229	MET
2	C	235	LEU
2	C	237	ARG
2	C	238	LEU
2	C	243	ARG
2	C	256	TYR
2	C	265	ARG
2	C	267	TYR
2	C	281	LEU
2	C	285	LEU
2	C	289	THR
2	C	290	LEU
2	C	292	ARG
2	C	293	PHE
2	C	294	GLU
2	C	308	ARG
2	C	309	TYR
2	C	313	LEU
2	C	325	ILE
2	C	326	ASP

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Mol	Chain	Res	Type
2	C	333	ILE
2	C	342	ASP
2	C	351	LEU
2	C	359	MET
2	C	364	GLU
2	C	365	ASP
2	C	371	LYS
2	C	374	ASN
2	C	378	LEU
2	C	383	ARG
2	C	388	ARG
2	C	394	PHE
2	C	398	THR
2	C	413	LEU
2	C	419	THR
2	C	426	ASP
2	C	433	THR
2	C	437	ARG
2	C	455	LEU
2	C	462	ASP
2	C	464	LEU
2	C	478	VAL
2	C	480	THR
2	C	500	ASN
2	C	514	VAL
2	C	518	LYS
2	C	520	GLU
2	C	527	GLU
2	C	556	ASN
2	C	557	ARG
2	C	559	LEU
2	C	572	ILE
2	C	584	GLU
2	C	595	LEU
2	C	600	ASP
2	C	609	ASN
2	C	620	LEU
2	C	626	ARG
2	C	627	ARG
2	C	635	THR
2	C	642	ARG
2	C	645	VAL

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Mol	Chain	Res	Type
2	C	654	LEU
2	C	668	LEU
2	C	673	LEU
2	C	679	PHE
2	C	680	ASP
2	C	683	ASN
2	C	686	ASP
2	C	699	PHE
2	C	704	HIS
2	C	722	ILE
2	C	738	ASP
2	C	740	GLU
2	C	748	GLU
2	C	796	GLU
2	C	805	ARG
2	C	820	ARG
2	C	821	GLU
2	C	829	GLN
2	C	839	LEU
2	C	856	GLU
2	C	858	MET
2	C	862	PRO
2	C	880	MET
2	C	886	LEU
2	C	890	LEU
2	C	903	SER
2	C	918	LEU
2	C	923	GLU
2	C	928	LYS
2	C	942	GLU
2	C	950	LEU
2	C	958	THR
2	C	964	LYS
2	C	981	GLU
2	C	994	ILE
2	C	1000	MET
2	C	1004	LYS
2	C	1018	GLN
2	C	1061	GLU
2	C	1063	ARG
2	C	1078	GLU
2	C	1086	ARG

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Mol	Chain	Res	Type
2	C	1104	GLU
2	C	1105	LYS
2	C	1106	ASP
2	C	1107	ASN
3	D	2	LYS
3	D	5	VAL
3	D	6	ARG
3	D	12	LEU
3	D	17	LYS
3	D	19	ARG
3	D	21	TRP
3	D	22	SER
3	D	55	ASP
3	D	86	ARG
3	D	95	LEU
3	D	97	THR
3	D	102	ILE
3	D	112	ILE
3	D	114	THR
3	D	124	GLU
3	D	128	TYR
3	D	136	ASP
3	D	138	LYS
3	D	142	LEU
3	D	148	GLU
3	D	152	LEU
3	D	153	LEU
3	D	154	THR
3	D	155	ASP
3	D	156	GLU
3	D	162	ARG
3	D	166	GLN
3	D	190	GLU
3	D	197	SER
3	D	200	ASP
3	D	205	TYR
3	D	387	LEU
3	D	388	HIS
3	D	394	LEU
3	D	405	ASP
3	D	408	GLU
3	D	410	SER

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Mol	Chain	Res	Type
3	D	411	THR
3	D	414	ARG
3	D	419	ASP
3	D	423	ASP
3	D	426	LYS
3	D	436	GLU
3	D	450	TYR
3	D	456	MET
3	D	462	GLN
3	D	469	ASP
3	D	470	LEU
3	D	507	ASN
3	D	510	GLU
3	D	540	LEU
3	D	548	ILE
3	D	549	ASN
3	D	568	ARG
3	D	569	ASN
3	D	594	PRO
3	D	611	GLN
3	D	613	ARG
3	D	615	ARG
3	D	621	LYS
3	D	623	VAL
3	D	624	ASP
3	D	641	GLN
3	D	647	ARG
3	D	648	MET
3	D	652	LEU
3	D	661	MET
3	D	669	ASN
3	D	684	LYS
3	D	685	ASP
3	D	708	LEU
3	D	709	HIS
3	D	710	ARG
3	D	720	LEU
3	D	733	CYS
3	D	736	PHE
3	D	763	MET
3	D	769	LEU
3	D	778	LEU

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Mol	Chain	Res	Type
3	D	783	ARG
3	D	787	LEU
3	D	799	LYS
3	D	804	LEU
3	D	808	THR
3	D	810	GLU
3	D	817	GLU
3	D	833	GLU
3	D	838	ARG
3	D	850	LEU
3	D	861	GLN
3	D	862	ASP
3	D	875	THR
3	D	880	ILE
3	D	897	TRP
3	D	899	LEU
3	D	900	ILE
3	D	902	LEU
3	D	920	LEU
3	D	921	ARG
3	D	951	ILE
3	D	952	ASP
3	D	976	GLN
3	D	983	LEU
3	D	985	ASP
3	D	988	ARG
3	D	990	ASP
3	D	998	GLU
3	D	1001	GLU
3	D	1008	PHE
3	D	1010	ASN
3	D	1012	GLU
3	D	1017	PHE
3	D	1029	ARG
3	D	1033	GLN
3	D	1046	GLN
3	D	1053	PHE
3	D	1060	SER
3	D	1061	PHE
3	D	1062	ARG
3	D	1067	VAL
3	D	1070	TYR

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Mol	Chain	Res	Type
3	D	1083	ASP
3	D	1084	THR
3	D	1087	ARG
3	D	1095	THR
3	D	1103	HIS
3	D	1108	ARG
3	D	1109	GLU
3	D	1111	ASP
3	D	1115	THR
3	D	1119	SER
3	D	1127	GLU
3	D	1129	THR
3	D	1149	LEU
3	D	1151	ARG
3	D	1156	LEU
3	D	1160	LEU
3	D	1161	GLU
3	D	1162	GLU
3	D	1164	ARG
3	D	1167	SER
3	D	1170	ASP
3	D	1183	ILE
3	D	1197	ARG
3	D	1204	CYS
3	D	1207	TYR
3	D	1210	SER
3	D	1211	MET
3	D	1234	THR
3	D	1235	GLN
3	D	1239	ARG
3	D	1256	LEU
3	D	1282	ARG
3	D	1286	THR
3	D	1296	SER
3	D	1299	PHE
3	D	1301	LYS
3	D	1314	LYS
3	D	1348	LEU
3	D	1379	VAL
3	D	1388	ARG
3	D	1389	LEU
3	D	1395	LEU

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Mol	Chain	Res	Type
3	D	1399	ASP
3	D	1430	SER
3	D	1434	TRP
3	D	1439	SER
3	D	1440	PHE
3	D	1441	GLN
3	D	1465	ASN
3	D	1467	ILE
3	D	1468	LEU
3	D	1472	ILE
3	D	1490	LYS
3	D	1493	LYS
4	E	14	ASP
4	E	18	ARG
4	E	35	PHE
4	E	36	LYS
4	E	37	ASN
4	E	43	GLU
4	E	44	GLU
4	E	45	ARG
4	E	48	MET
4	E	52	GLU
4	E	54	LEU
4	E	84	ARG
4	E	86	GLN
1	F	19	GLU
1	F	20	TYR
1	F	30	ARG
1	F	32	PHE
1	F	36	LEU
1	F	54	THR
1	F	60	ASP
1	F	62	LEU
1	F	65	PHE
1	F	76	VAL
1	F	80	LEU
1	F	90	LEU
1	F	96	THR
1	F	98	THR
1	F	99	LEU
1	F	101	LEU
1	F	112	ARG

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Mol	Chain	Res	Type
1	F	124	ASN
1	F	129	ILE
1	F	140	MET
1	F	141	GLU
1	F	143	ARG
1	F	145	ASP
1	F	156	HIS
1	F	163	ASN
1	F	165	ILE
1	F	175	ARG
1	F	176	ARG
1	F	180	GLN
1	F	184	THR
1	F	197	LEU
1	F	213	GLN
1	F	216	GLU
1	F	219	ARG
1	F	222	LEU
1	F	229	GLN
1	G	19	GLU
1	G	30	ARG
1	G	32	PHE
1	G	35	THR
1	G	36	LEU
1	G	48	ILE
1	G	62	LEU
1	G	80	LEU
1	G	82	LEU
1	G	95	GLN
1	G	99	LEU
1	G	112	ARG
1	G	113	ASP
1	G	115	LEU
1	G	123	MET
1	G	145	ASP
1	G	146	ARG
1	G	159	LYS
1	G	162	ILE
1	G	163	ASN
1	G	165	ILE
1	G	167	VAL
1	G	168	ASP

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Mol	Chain	Res	Type
1	G	176	ARG
1	G	179	PHE
1	G	180	GLN
1	G	186	LEU
1	G	193	ASP
1	G	201	THR
1	G	204	SER
1	G	205	VAL
1	G	221	HIS
1	G	223	THR
2	H	5	ARG
2	H	10	ARG
2	H	13	ILE
2	H	27	ARG
2	H	30	LEU
2	H	31	GLN
2	H	33	ASP
2	H	34	VAL
2	H	38	LYS
2	H	39	ARG
2	H	52	PHE
2	H	72	ARG
2	H	88	LEU
2	H	89	THR
2	H	94	LEU
2	H	98	LEU
2	H	104	ASP
2	H	108	ILE
2	H	111	ASP
2	H	114	PHE
2	H	115	LEU
2	H	118	ILE
2	H	126	SER
2	H	141	HIS
2	H	142	ARG
2	H	152	PRO
2	H	154	ARG
2	H	157	ARG
2	H	161	SER
2	H	171	TRP
2	H	196	LEU
2	H	198	ARG

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Mol	Chain	Res	Type
2	H	203	ASP
2	H	205	GLU
2	H	211	LEU
2	H	217	LEU
2	H	238	LEU
2	H	239	PHE
2	H	241	LEU
2	H	243	ARG
2	H	249	LYS
2	H	265	ARG
2	H	267	TYR
2	H	268	ASP
2	H	276	LYS
2	H	283	ILE
2	H	284	ARG
2	H	285	LEU
2	H	289	THR
2	H	290	LEU
2	H	293	PHE
2	H	294	GLU
2	H	302	VAL
2	H	310	LEU
2	H	313	LEU
2	H	323	ASP
2	H	326	ASP
2	H	333	ILE
2	H	343	GLN
2	H	348	LEU
2	H	355	VAL
2	H	359	MET
2	H	360	LEU
2	H	363	SER
2	H	364	GLU
2	H	366	SER
2	H	368	THR
2	H	419	THR
2	H	422	ARG
2	H	426	ASP
2	H	455	LEU
2	H	464	LEU
2	H	478	VAL
2	H	481	ASP

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Mol	Chain	Res	Type
2	H	489	THR
2	H	492	ASP
2	H	496	ILE
2	H	498	GLN
2	H	500	ASN
2	H	512	ARG
2	H	516	ARG
2	H	523	ILE
2	H	537	LYS
2	H	540	PHE
2	H	556	ASN
2	H	572	ILE
2	H	586	ARG
2	H	592	LEU
2	H	595	LEU
2	H	653	ASP
2	H	654	LEU
2	H	657	ASP
2	H	661	SER
2	H	662	GLU
2	H	668	LEU
2	H	679	PHE
2	H	680	ASP
2	H	686	ASP
2	H	690	ILE
2	H	695	LEU
2	H	703	ILE
2	H	704	HIS
2	H	706	GLU
2	H	716	LYS
2	H	722	ILE
2	H	728	HIS
2	H	740	GLU
2	H	749	VAL
2	H	750	LYS
2	H	755	LEU
2	H	759	THR
2	H	799	ILE
2	H	834	GLN
2	H	848	VAL
2	H	851	LYS
2	H	858	MET

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Mol	Chain	Res	Type
2	H	862	PRO
2	H	872	ASN
2	H	880	MET
2	H	881	ASN
2	H	882	LEU
2	H	888	THR
2	H	902	ILE
2	H	916	GLU
2	H	926	PHE
2	H	939	ARG
2	H	942	GLU
2	H	950	LEU
2	H	988	VAL
2	H	992	MET
2	H	994	ILE
2	H	1004	LYS
2	H	1005	MET
2	H	1008	ARG
2	H	1013	TYR
2	H	1016	ILE
2	H	1027	PHE
2	H	1049	LEU
2	H	1052	MET
2	H	1054	THR
2	H	1063	ARG
2	H	1064	ASN
2	H	1074	GLU
2	H	1080	SER
2	H	1083	GLU
2	H	1088	LEU
2	H	1095	LEU
2	H	1105	LYS
3	I	10	ILE
3	I	12	LEU
3	I	21	TRP
3	I	33	ASN
3	I	40	GLU
3	I	44	LEU
3	I	84	ILE
3	I	125	GLN
3	I	127	LEU
3	I	128	TYR

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Mol	Chain	Res	Type
3	I	138	LYS
3	I	148	GLU
3	I	152	LEU
3	I	153	LEU
3	I	161	LEU
3	I	166	GLN
3	I	171	LEU
3	I	176	ASP
3	I	198	ARG
3	I	202	VAL
3	I	205	TYR
3	I	210	ARG
3	I	360	ARG
3	I	361	VAL
3	I	366	LYS
3	I	388	HIS
3	I	389	GLU
3	I	392	SER
3	I	395	VAL
3	I	407	VAL
3	I	423	ASP
3	I	434	ARG
3	I	438	ASP
3	I	445	ARG
3	I	452	ILE
3	I	456	MET
3	I	470	LEU
3	I	500	ARG
3	I	507	ASN
3	I	514	LEU
3	I	524	LEU
3	I	525	ARG
3	I	546	ARG
3	I	564	GLU
3	I	581	LEU
3	I	583	ASP
3	I	587	ARG
3	I	600	LEU
3	I	613	ARG
3	I	624	ASP
3	I	639	LEU
3	I	641	GLN

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Mol	Chain	Res	Type
3	I	651	GLU
3	I	660	LYS
3	I	664	LYS
3	I	675	ARG
3	I	679	ARG
3	I	680	GLN
3	I	681	ARG
3	I	685	ASP
3	I	709	HIS
3	I	713	ILE
3	I	720	LEU
3	I	721	VAL
3	I	726	ILE
3	I	731	LEU
3	I	732	VAL
3	I	736	PHE
3	I	737	ASN
3	I	739	ASP
3	I	749	VAL
3	I	753	SER
3	I	767	HIS
3	I	783	ARG
3	I	787	LEU
3	I	799	LYS
3	I	805	GLU
3	I	808	THR
3	I	817	GLU
3	I	834	THR
3	I	835	SER
3	I	838	ARG
3	I	842	VAL
3	I	847	ASP
3	I	851	LEU
3	I	855	HIS
3	I	860	LEU
3	I	871	LYS
3	I	872	ARG
3	I	873	LEU
3	I	875	THR
3	I	876	SER
3	I	888	GLU
3	I	897	TRP

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Mol	Chain	Res	Type
3	I	898	GLU
3	I	900	ILE
3	I	914	LEU
3	I	915	VAL
3	I	924	MET
3	I	942	SER
3	I	947	ILE
3	I	951	ILE
3	I	959	GLU
3	I	964	LEU
3	I	966	GLU
3	I	983	LEU
3	I	986	ARG
3	I	988	ARG
3	I	990	ASP
3	I	999	THR
3	I	1001	GLU
3	I	1003	VAL
3	I	1052	THR
3	I	1053	PHE
3	I	1061	PHE
3	I	1062	ARG
3	I	1070	TYR
3	I	1075	HIS
3	I	1095	THR
3	I	1104	GLU
3	I	1108	ARG
3	I	1109	GLU
3	I	1111	ASP
3	I	1116	ASN
3	I	1119	SER
3	I	1129	THR
3	I	1132	LEU
3	I	1149	LEU
3	I	1152	GLU
3	I	1156	LEU
3	I	1161	GLU
3	I	1162	GLU
3	I	1164	ARG
3	I	1166	LEU
3	I	1169	ASP
3	I	1172	HIS

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Mol	Chain	Res	Type
3	I	1193	THR
3	I	1195	GLN
3	I	1197	ARG
3	I	1207	TYR
3	I	1219	GLU
3	I	1231	GLU
3	I	1238	MET
3	I	1239	ARG
3	I	1278	ASP
3	I	1295	GLU
3	I	1297	GLU
3	I	1302	GLU
3	I	1305	LEU
3	I	1307	LYS
3	I	1323	GLN
3	I	1331	ASP
3	I	1348	LEU
3	I	1359	GLN
3	I	1386	ASP
3	I	1422	MET
3	I	1426	LYS
3	I	1434	TRP
3	I	1443	THR
3	I	1460	ILE
3	I	1465	ASN
3	I	1472	ILE
3	I	1488	ASP
4	J	14	ASP
4	J	20	THR
4	J	36	LYS
4	J	37	ASN
4	J	38	THR
4	J	41	GLU
4	J	43	GLU
4	J	44	GLU
4	J	51	LEU
4	J	52	GLU
4	J	55	PHE
4	J	68	LEU
1	K	19	GLU
1	K	20	TYR
1	K	25	LEU

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Mol	Chain	Res	Type
1	K	26	GLU
1	K	29	GLU
1	K	30	ARG
1	K	32	PHE
1	K	60	ASP
1	K	68	ILE
1	K	76	VAL
1	K	79	ILE
1	K	80	LEU
1	K	113	ASP
1	K	123	MET
1	K	140	MET
1	K	141	GLU
1	K	145	ASP
1	K	146	ARG
1	K	162	ILE
1	K	163	ASN
1	K	165	ILE
1	K	175	ARG
1	K	176	ARG
1	K	180	GLN
1	K	189	ARG
1	K	206	THR
1	K	216	GLU
1	K	220	GLU
1	L	18	ARG
1	L	19	GLU
1	L	20	TYR
1	L	26	GLU
1	L	28	LEU
1	L	38	ASN
1	L	59	GLU
1	L	65	PHE
1	L	74	ASP
1	L	85	LEU
1	L	88	ARG
1	L	91	ASN
1	L	95	GLN
1	L	96	THR
1	L	99	LEU
1	L	101	LEU
1	L	107	LYS

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Mol	Chain	Res	Type
1	L	112	ARG
1	L	115	LEU
1	L	119	ASP
1	L	123	MET
1	L	133	GLU
1	L	137	ARG
1	L	138	LEU
1	L	146	ARG
1	L	159	LYS
1	L	162	ILE
1	L	163	ASN
1	L	174	VAL
1	L	180	GLN
1	L	185	ARG
1	L	198	ARG
1	L	201	THR
1	L	206	THR
1	L	209	GLU
1	L	227	ASN
1	L	229	GLN
2	M	2	GLU
2	M	3	ILE
2	M	9	ILE
2	M	15	LEU
2	M	30	LEU
2	M	39	ARG
2	M	51	THR
2	M	52	PHE
2	M	66	LEU
2	M	73	LEU
2	M	75	GLU
2	M	88	LEU
2	M	97	ARG
2	M	98	LEU
2	M	103	LYS
2	M	110	GLU
2	M	113	VAL
2	M	114	PHE
2	M	115	LEU
2	M	118	ILE
2	M	124	ASP
2	M	136	ILE

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Mol	Chain	Res	Type
2	M	141	HIS
2	M	142	ARG
2	M	157	ARG
2	M	161	SER
2	M	171	TRP
2	M	172	ILE
2	M	177	GLU
2	M	179	ASN
2	M	189	ARG
2	M	198	ARG
2	M	203	ASP
2	M	204	GLN
2	M	205	GLU
2	M	209	ARG
2	M	217	LEU
2	M	222	MET
2	M	225	SER
2	M	235	LEU
2	M	238	LEU
2	M	239	PHE
2	M	242	LEU
2	M	243	ARG
2	M	254	VAL
2	M	256	TYR
2	M	267	TYR
2	M	274	ARG
2	M	281	LEU
2	M	285	LEU
2	M	289	THR
2	M	290	LEU
2	M	292	ARG
2	M	293	PHE
2	M	294	GLU
2	M	295	ASP
2	M	302	VAL
2	M	309	TYR
2	M	321	GLU
2	M	332	ARG
2	M	343	GLN
2	M	351	LEU
2	M	359	MET
2	M	360	LEU

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Mol	Chain	Res	Type
2	M	361	MET
2	M	367	LEU
2	M	374	ASN
2	M	376	ARG
2	M	383	ARG
2	M	390	GLN
2	M	394	PHE
2	M	418	LEU
2	M	422	ARG
2	M	425	PHE
2	M	426	ASP
2	M	432	ARG
2	M	433	THR
2	M	448	ASN
2	M	451	LEU
2	M	455	LEU
2	M	481	ASP
2	M	486	MET
2	M	489	THR
2	M	498	GLN
2	M	513	VAL
2	M	516	ARG
2	M	523	ILE
2	M	551	GLU
2	M	557	ARG
2	M	559	LEU
2	M	572	ILE
2	M	580	MET
2	M	590	ASP
2	M	592	LEU
2	M	600	ASP
2	M	607	ASP
2	M	610	ARG
2	M	620	LEU
2	M	645	VAL
2	M	648	ARG
2	M	654	LEU
2	M	668	LEU
2	M	676	ILE
2	M	677	MET
2	M	680	ASP
2	M	683	ASN

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Mol	Chain	Res	Type
2	M	691	SER
2	M	695	LEU
2	M	717	LEU
2	M	722	ILE
2	M	726	ILE
2	M	737	LEU
2	M	739	GLU
2	M	750	LYS
2	M	754	ILE
2	M	790	LEU
2	M	791	ARG
2	M	796	GLU
2	M	820	ARG
2	M	858	MET
2	M	862	PRO
2	M	880	MET
2	M	890	LEU
2	M	923	GLU
2	M	928	LYS
2	M	942	GLU
2	M	946	ARG
2	M	950	LEU
2	M	963	LEU
2	M	972	VAL
2	M	984	GLU
2	M	994	ILE
2	M	995	MET
2	M	997	LEU
2	M	1000	MET
2	M	1002	GLU
2	M	1004	LYS
2	M	1006	HIS
2	M	1016	ILE
2	M	1018	GLN
2	M	1035	MET
2	M	1052	MET
2	M	1067	TYR
2	M	1100	GLN
2	M	1105	LYS
2	M	1110	ASP
3	N	2	LYS
3	N	12	LEU

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Mol	Chain	Res	Type
3	N	21	TRP
3	N	22	SER
3	N	33	ASN
3	N	37	LEU
3	N	38	LYS
3	N	41	ARG
3	N	84	ILE
3	N	115	LEU
3	N	116	LEU
3	N	122	GLU
3	N	123	LEU
3	N	124	GLU
3	N	127	LEU
3	N	128	TYR
3	N	138	LYS
3	N	142	LEU
3	N	148	GLU
3	N	153	LEU
3	N	154	THR
3	N	165	LYS
3	N	176	ASP
3	N	181	ASP
3	N	199	LEU
3	N	205	TYR
3	N	206	ARG
3	N	213	VAL
3	N	345	TYR
3	N	352	ASN
3	N	374	GLU
3	N	387	LEU
3	N	394	LEU
3	N	396	VAL
3	N	404	GLU
3	N	414	ARG
3	N	439	LEU
3	N	441	ARG
3	N	448	GLU
3	N	452	ILE
3	N	453	ASP
3	N	456	MET
3	N	464	LEU
3	N	469	ASP

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Mol	Chain	Res	Type
3	N	473	LEU
3	N	475	LYS
3	N	489	ARG
3	N	525	ARG
3	N	528	VAL
3	N	538	SER
3	N	544	TYR
3	N	546	ARG
3	N	549	ASN
3	N	552	ASN
3	N	564	GLU
3	N	576	GLU
3	N	583	ASP
3	N	587	ARG
3	N	602	SER
3	N	613	ARG
3	N	617	ASN
3	N	631	ILE
3	N	639	LEU
3	N	641	GLN
3	N	648	MET
3	N	651	GLU
3	N	659	LYS
3	N	660	LYS
3	N	675	ARG
3	N	677	LEU
3	N	685	ASP
3	N	695	ILE
3	N	703	ASN
3	N	708	LEU
3	N	709	HIS
3	N	719	VAL
3	N	720	LEU
3	N	722	GLU
3	N	727	GLN
3	N	739	ASP
3	N	744	GLN
3	N	754	PHE
3	N	778	LEU
3	N	787	LEU
3	N	799	LYS
3	N	804	LEU

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Mol	Chain	Res	Type
3	N	805	GLU
3	N	808	THR
3	N	817	GLU
3	N	820	GLU
3	N	824	ASN
3	N	832	ARG
3	N	834	THR
3	N	838	ARG
3	N	845	ASN
3	N	851	LEU
3	N	855	HIS
3	N	861	GLN
3	N	862	ASP
3	N	863	VAL
3	N	868	TYR
3	N	869	MET
3	N	884	ARG
3	N	897	TRP
3	N	899	LEU
3	N	901	GLN
3	N	907	GLU
3	N	917	GLN
3	N	922	LEU
3	N	925	GLU
3	N	944	THR
3	N	947	ILE
3	N	959	GLU
3	N	971	LEU
3	N	973	GLN
3	N	976	GLN
3	N	987	GLU
3	N	991	GLN
3	N	1001	GLU
3	N	1003	VAL
3	N	1010	ASN
3	N	1017	PHE
3	N	1020	LEU
3	N	1029	ARG
3	N	1044	LEU
3	N	1053	PHE
3	N	1058	ARG
3	N	1061	PHE

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Mol	Chain	Res	Type
3	N	1062	ARG
3	N	1066	THR
3	N	1095	THR
3	N	1096	ARG
3	N	1102	THR
3	N	1104	GLU
3	N	1108	ARG
3	N	1109	GLU
3	N	1112	CYS
3	N	1129	THR
3	N	1130	ARG
3	N	1134	LEU
3	N	1156	LEU
3	N	1162	GLU
3	N	1166	LEU
3	N	1169	ASP
3	N	1182	GLU
3	N	1183	ILE
3	N	1201	CYS
3	N	1204	CYS
3	N	1207	TYR
3	N	1224	VAL
3	N	1235	GLN
3	N	1278	ASP
3	N	1283	ILE
3	N	1295	GLU
3	N	1299	PHE
3	N	1314	LYS
3	N	1315	ASP
3	N	1320	GLU
3	N	1334	GLN
3	N	1342	GLU
3	N	1348	LEU
3	N	1359	GLN
3	N	1372	VAL
3	N	1379	VAL
3	N	1388	ARG
3	N	1397	LYS
3	N	1405	GLU
3	N	1410	GLU
3	N	1421	LEU
3	N	1431	THR

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Mol	Chain	Res	Type
3	N	1433	SER
3	N	1464	GLU
3	N	1465	ASN
3	N	1472	ILE
4	O	6	ILE
4	O	7	ASP
4	O	36	LYS
4	O	37	ASN
4	O	41	GLU
4	O	55	PHE
4	O	56	ASP
4	O	67	GLU
4	O	69	LEU
4	O	73	LEU
4	O	75	PHE
4	O	78	ASN
4	O	82	GLU
4	O	86	GLN
5	X	5	VAL
5	X	8	THR
5	X	43	ARG
5	X	44	GLU
5	X	45	ASN
5	X	63	ASP
5	X	71	ARG
5	X	75	LEU
5	X	99	ARG
5	X	102	VAL
5	X	105	VAL
5	X	114	ASP
5	X	115	THR
5	X	117	MET
5	X	136	ASP
5	X	138	LEU
5	X	139	SER
5	Y	3	ARG
5	Y	6	LYS
5	Y	8	THR
5	Y	42	LEU
5	Y	43	ARG
5	Y	44	GLU
5	Y	53	ARG

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Mol	Chain	Res	Type
5	Y	58	ASN
5	Y	63	ASP
5	Y	87	SER
5	Y	95	LEU
5	Y	96	SER
5	Y	99	ARG
5	Y	102	VAL
5	Y	106	SER
5	Y	114	ASP
5	Y	119	ILE
5	Y	130	LEU
5	Y	138	LEU
5	Y	148	GLU
5	Z	3	ARG
5	Z	14	ARG
5	Z	18	GLN
5	Z	26	LEU
5	Z	33	PHE
5	Z	38	GLU
5	Z	41	ASP
5	Z	42	LEU
5	Z	45	ASN
5	Z	56	TRP
5	Z	57	GLN
5	Z	62	ILE
5	Z	85	LEU
5	Z	98	GLU
5	Z	99	ARG
5	Z	101	SER
5	Z	114	ASP
5	Z	115	THR
5	Z	120	SER
5	Z	133	ARG
5	Z	139	SER
5	Z	142	THR
5	Z	144	LYS
5	Z	154	ILE

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (239) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	81	ASN

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Mol	Chain	Res	Type
1	A	124	ASN
1	A	139	ASN
1	A	212	ASN
1	A	213	GLN
1	A	221	HIS
1	A	229	GLN
1	B	16	GLN
1	B	95	GLN
1	B	124	ASN
1	B	163	ASN
1	B	180	GLN
1	B	188	GLN
1	B	212	ASN
1	B	227	ASN
2	C	45	GLN
2	C	91	GLN
2	C	117	HIS
2	C	343	GLN
2	C	374	ASN
2	C	393	GLN
2	C	543	ASN
2	C	552	HIS
2	C	556	ASN
2	C	565	GLN
2	C	567	GLN
2	C	575	GLN
2	C	609	ASN
2	C	633	GLN
2	C	639	GLN
2	C	843	HIS
2	C	860	HIS
2	C	872	ASN
2	C	881	ASN
2	C	920	GLN
2	C	969	GLN
2	C	1050	GLN
2	C	1093	GLN
2	C	1100	GLN
3	D	125	GLN
3	D	151	GLN
3	D	442	ASN
3	D	463	GLN

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Mol	Chain	Res	Type
3	D	549	ASN
3	D	560	GLN
3	D	611	GLN
3	D	709	HIS
3	D	717	GLN
3	D	727	GLN
3	D	737	ASN
3	D	762	GLN
3	D	767	HIS
3	D	794	GLN
3	D	816	HIS
3	D	824	ASN
3	D	855	HIS
3	D	909	ASN
3	D	1025	GLN
3	D	1034	GLN
3	D	1046	GLN
3	D	1235	GLN
3	D	1323	GLN
3	D	1334	GLN
3	D	1359	GLN
3	D	1374	GLN
3	D	1393	GLN
3	D	1441	GLN
3	D	1442	ASN
3	D	1465	ASN
3	D	1485	GLN
4	E	28	GLN
4	E	33	HIS
4	E	37	ASN
4	E	49	GLN
4	E	59	ASN
4	E	78	ASN
4	E	86	GLN
1	F	38	ASN
1	F	128	HIS
1	F	139	ASN
1	F	156	HIS
1	F	163	ASN
1	F	180	GLN
1	F	213	GLN
1	F	229	GLN

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Mol	Chain	Res	Type
1	G	16	GLN
1	G	38	ASN
1	G	95	GLN
1	G	124	ASN
1	G	180	GLN
1	G	188	GLN
1	G	227	ASN
1	G	229	GLN
2	H	22	GLN
2	H	31	GLN
2	H	99	GLN
2	H	139	GLN
2	H	219	GLN
2	H	343	GLN
2	H	393	GLN
2	H	434	HIS
2	H	552	HIS
2	H	575	GLN
2	H	633	GLN
2	H	671	ASN
2	H	704	HIS
2	H	843	HIS
2	H	845	ASN
2	H	872	ASN
2	H	884	GLN
2	H	889	HIS
2	H	899	GLN
2	H	969	GLN
2	H	1006	HIS
2	H	1107	ASN
3	I	33	ASN
3	I	125	GLN
3	I	166	GLN
3	I	189	GLN
3	I	348	GLN
3	I	463	GLN
3	I	549	ASN
3	I	560	GLN
3	I	636	GLN
3	I	703	ASN
3	I	709	HIS
3	I	714	GLN

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Mol	Chain	Res	Type
3	I	717	GLN
3	I	724	GLN
3	I	727	GLN
3	I	744	GLN
3	I	762	GLN
3	I	794	GLN
3	I	845	ASN
3	I	861	GLN
3	I	917	GLN
3	I	976	GLN
3	I	991	GLN
3	I	1025	GLN
3	I	1031	ASN
3	I	1034	GLN
3	I	1037	GLN
3	I	1075	HIS
3	I	1103	HIS
3	I	1116	ASN
3	I	1124	GLN
3	I	1195	GLN
3	I	1202	GLN
3	I	1323	GLN
3	I	1334	GLN
3	I	1393	GLN
3	I	1465	ASN
3	I	1485	GLN
4	J	28	GLN
4	J	29	GLN
4	J	37	ASN
4	J	59	ASN
1	K	38	ASN
1	K	124	ASN
1	K	156	HIS
1	K	180	GLN
1	K	188	GLN
1	K	212	ASN
1	L	63	HIS
1	L	81	ASN
1	L	91	ASN
1	L	95	GLN
1	L	139	ASN
1	L	163	ASN

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Mol	Chain	Res	Type
1	L	180	GLN
1	L	227	ASN
2	M	31	GLN
2	M	80	GLN
2	M	91	GLN
2	M	179	ASN
2	M	187	ASN
2	M	343	GLN
2	M	374	ASN
2	M	406	HIS
2	M	448	ASN
2	M	552	HIS
2	M	556	ASN
2	M	609	ASN
2	M	632	ASN
2	M	663	ASN
2	M	683	ASN
2	M	829	GLN
2	M	834	GLN
2	M	843	HIS
2	M	845	ASN
2	M	872	ASN
2	M	884	GLN
2	M	889	HIS
2	M	899	GLN
2	M	969	GLN
2	M	991	GLN
2	M	1006	HIS
3	N	33	ASN
3	N	151	GLN
3	N	166	GLN
3	N	442	ASN
3	N	462	GLN
3	N	549	ASN
3	N	616	GLN
3	N	641	GLN
3	N	709	HIS
3	N	727	GLN
3	N	744	GLN
3	N	748	HIS
3	N	762	GLN
3	N	824	ASN

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Mol	Chain	Res	Type
3	N	845	ASN
3	N	917	GLN
3	N	976	GLN
3	N	991	GLN
3	N	1025	GLN
3	N	1033	GLN
3	N	1037	GLN
3	N	1202	GLN
3	N	1323	GLN
3	N	1334	GLN
3	N	1374	GLN
3	N	1393	GLN
3	N	1465	ASN
4	O	29	GLN
4	O	37	ASN
4	O	59	ASN
4	O	78	ASN
5	X	17	GLN
5	X	45	ASN
5	X	57	GLN
5	X	103	GLN
5	Y	27	GLN
5	Y	57	GLN
5	Z	17	GLN
5	Z	18	GLN
5	Z	27	GLN
5	Z	45	ASN
5	Z	58	ASN

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates ⓘ

There are no carbohydrates in this entry.

5.6 Ligand geometry

Of 6 ligands modelled in this entry, 6 are monoatomic - leaving 0 for Mogul analysis.

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

No monomer is involved in short contacts.

5.7 Other polymers

There are no such residues in this entry.

5.8 Polymer linkage issues

There are no chain breaks in this entry.

6 Fit of model and data ⓘ

6.1 Protein, DNA and RNA chains ⓘ

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

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
1	A	223/315 (70%)	-0.26	3 (1%) 79 71	89, 173, 228, 279	0
1	B	224/315 (71%)	-0.30	1 (0%) 93 90	108, 172, 229, 282	0
1	F	223/315 (70%)	-0.36	2 (0%) 85 80	83, 162, 225, 270	0
1	G	223/315 (70%)	-0.42	0 100 100	91, 153, 211, 230	0
1	K	225/315 (71%)	-0.12	3 (1%) 79 71	116, 192, 249, 279	0
1	L	224/315 (71%)	-0.40	0 100 100	89, 167, 217, 242	0
2	C	1080/1119 (96%)	-0.30	10 (0%) 85 80	80, 168, 245, 311	0
2	H	1081/1119 (96%)	-0.32	13 (1%) 81 73	67, 161, 239, 339	0
2	M	1080/1119 (96%)	-0.26	20 (1%) 70 61	80, 174, 247, 315	0
3	D	1334/1524 (87%)	-0.24	22 (1%) 74 65	83, 172, 251, 342	0
3	I	1318/1524 (86%)	-0.18	28 (2%) 67 57	65, 181, 280, 356	0
3	N	1323/1524 (86%)	-0.22	18 (1%) 78 69	77, 176, 260, 310	0
4	E	93/99 (93%)	-0.03	4 (4%) 39 30	115, 192, 279, 362	0
4	J	93/99 (93%)	-0.22	2 (2%) 65 56	115, 177, 268, 293	0
4	O	93/99 (93%)	-0.13	2 (2%) 65 56	88, 176, 245, 261	0
5	X	154/156 (98%)	0.17	11 (7%) 19 14	146, 228, 282, 303	0
5	Y	154/156 (98%)	0.28	13 (8%) 14 10	157, 237, 315, 379	0
5	Z	154/156 (98%)	0.12	10 (6%) 22 16	133, 219, 288, 356	0
All	All	9299/10584 (87%)	-0.23	162 (1%) 73 63	65, 175, 259, 379	0

All (162) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
4	E	56	ASP	7.3
4	E	57	ASP	6.6
3	I	211	VAL	6.2

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Mol	Chain	Res	Type	RSRZ
2	C	807	ARG	5.5
5	Y	129	LEU	5.2
3	I	409	VAL	4.5
2	M	248	PRO	4.5
3	I	161	LEU	4.4
4	J	56	ASP	4.2
3	D	36	THR	4.0
5	Y	82	VAL	3.7
2	M	643	VAL	3.7
2	M	721	ARG	3.7
3	I	182	GLY	3.6
5	Z	102	VAL	3.6
2	M	644	VAL	3.6
3	I	165	LYS	3.6
5	X	104	VAL	3.6
2	H	711	GLU	3.6
5	X	89	VAL	3.6
5	Y	83	ILE	3.5
3	D	37	LEU	3.5
4	O	56	ASP	3.4
2	M	270	GLY	3.4
2	H	417	GLY	3.4
2	C	248	PRO	3.4
3	I	203	ALA	3.3
4	J	57	ASP	3.3
3	D	38	LYS	3.3
3	N	161	LEU	3.3
2	M	70	GLU	3.2
3	I	1313	VAL	3.2
3	N	165	LYS	3.1
2	H	805	ARG	3.0
3	D	35	ARG	3.0
3	I	367	ILE	2.9
3	N	808	THR	2.9
3	I	801	GLY	2.9
2	C	808	ARG	2.9
3	I	193	PRO	2.9
5	Y	98	GLU	2.8
2	H	822	VAL	2.8
1	F	204	SER	2.8
2	M	757	GLY	2.8
3	N	31	THR	2.8

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Mol	Chain	Res	Type	RSRZ
5	Z	101	SER	2.8
3	N	44	LEU	2.8
2	M	711	GLU	2.7
5	X	141	ASP	2.7
5	Z	48	TYR	2.7
2	C	1080	SER	2.7
3	N	1292	VAL	2.7
1	K	87	VAL	2.7
3	I	191	LEU	2.7
2	M	422	ARG	2.7
3	D	33	ASN	2.7
3	D	1294	VAL	2.6
3	D	796	ARG	2.6
1	A	177	VAL	2.6
2	H	648	ARG	2.5
3	I	121	THR	2.5
3	N	346	ARG	2.5
1	B	178	ALA	2.5
3	I	407	VAL	2.5
5	Y	137	VAL	2.5
2	H	616	GLU	2.5
3	D	856	GLY	2.5
3	N	345	TYR	2.5
3	D	34	TYR	2.5
5	X	84	GLY	2.5
5	Z	125	MET	2.4
4	O	93	TYR	2.4
3	D	1313	VAL	2.4
3	D	356	PRO	2.4
3	N	1486	VAL	2.4
1	A	178	ALA	2.4
2	M	247	PRO	2.4
3	D	854	ALA	2.3
3	N	801	GLY	2.3
5	Y	132	HIS	2.3
2	M	647	GLN	2.3
3	N	393	ILE	2.3
2	H	423	ALA	2.3
3	I	31	THR	2.3
5	X	128	ALA	2.3
3	D	482	LYS	2.3
2	M	725	ASP	2.3

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Mol	Chain	Res	Type	RSRZ
2	M	417	GLY	2.3
2	M	363	SER	2.3
3	D	421	LEU	2.3
2	H	606	VAL	2.3
2	H	643	VAL	2.3
5	Z	89	VAL	2.3
5	Y	48	TYR	2.3
3	I	360	ARG	2.3
3	N	1305	LEU	2.3
5	Y	87	SER	2.3
3	I	120	ALA	2.3
5	X	83	ILE	2.3
2	C	757	GLY	2.2
5	X	91	LEU	2.2
2	M	249	LYS	2.2
5	X	137	VAL	2.2
5	Z	5	VAL	2.2
1	A	25	LEU	2.2
3	I	421	LEU	2.2
3	I	366	LYS	2.2
1	K	204	SER	2.2
3	I	796	ARG	2.2
5	X	129	LEU	2.2
2	H	814	GLU	2.2
3	N	427	VAL	2.2
1	F	111	ALA	2.2
2	M	936	VAL	2.2
5	Y	149	PHE	2.2
5	X	102	VAL	2.2
2	C	425	PHE	2.2
3	I	29	PRO	2.2
5	Z	139	SER	2.2
3	D	1487	VAL	2.2
3	I	1406	ARG	2.1
2	H	806	LEU	2.1
3	N	45	PHE	2.1
5	Y	154	ILE	2.1
5	Z	140	LEU	2.1
3	D	1238	MET	2.1
3	N	405	ASP	2.1
2	C	270	GLY	2.1
2	H	741	GLY	2.1

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Mol	Chain	Res	Type	RSRZ
5	Y	84	GLY	2.1
3	N	409	VAL	2.1
4	E	80	VAL	2.1
3	N	366	LYS	2.1
3	I	444	VAL	2.1
5	Y	89	VAL	2.1
5	Z	47	GLY	2.1
3	I	38	LYS	2.1
5	Y	138	LEU	2.1
2	M	269	LEU	2.1
3	D	1292	VAL	2.1
3	N	1289	LYS	2.1
3	D	32	ILE	2.1
2	H	418	LEU	2.1
4	E	84	ARG	2.1
2	M	529	VAL	2.1
3	I	45	PHE	2.0
2	C	471	TYR	2.0
2	M	243	ARG	2.0
3	D	211	VAL	2.0
5	X	118	LYS	2.0
5	Z	141	ASP	2.0
1	K	138	LEU	2.0
3	I	448	GLU	2.0
3	D	444	VAL	2.0
2	M	175	GLU	2.0
3	D	1497	GLU	2.0
3	I	446	VAL	2.0
2	C	806	LEU	2.0
2	C	720	GLU	2.0
3	I	44	LEU	2.0
3	D	357	GLU	2.0
3	I	212	ARG	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 [i](#)

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

Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(Å ²)	Q<0.9
6	ZN	N	1601	1/1	0.95	0.06	-1.28	333,333,333,333	0
6	ZN	I	1601	1/1	0.93	0.07	-1.78	666,666,666,666	0
6	ZN	D	2001	1/1	0.98	0.07	-2.17	221,221,221,221	0
7	MG	N	1602	1/1	0.91	0.38	-	182,182,182,182	0
7	MG	D	2002	1/1	0.97	0.17	-	130,130,130,130	0
7	MG	I	1602	1/1	0.94	1.08	-	114,114,114,114	0

6.5 Other polymers [i](#)

There are no such residues in this entry.