



Full wwPDB X-ray Structure Validation Report ⓘ

Feb 1, 2016 – 07:29 AM GMT

PDB ID : 3AOH
Title : RNA polymerase-Gfh1 complex (Crystal type 1)
Authors : Tagami, S.; Sekine, S.; Kumarevel, T.; Yamamoto, M.; Yokoyama, S.; RIKEN
Structural Genomics/Proteomics Initiative (RSGI)
Deposited on : 2010-09-28
Resolution : 4.10 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

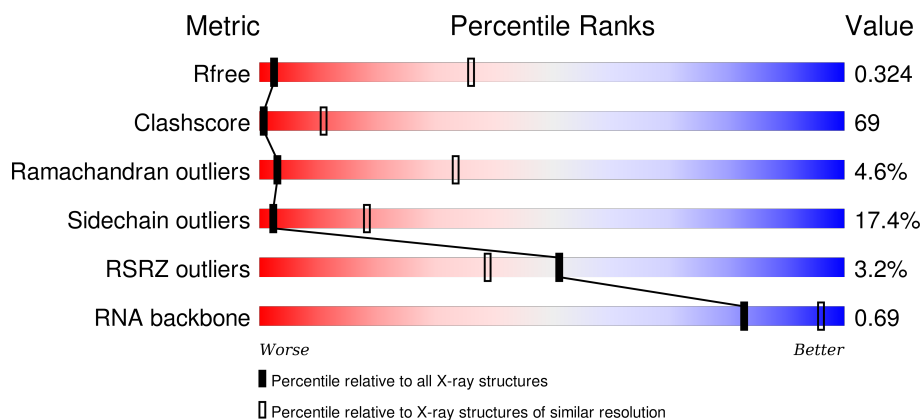
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 4.10 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.



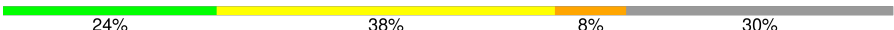
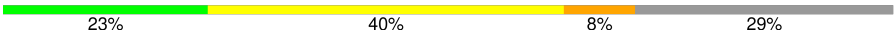
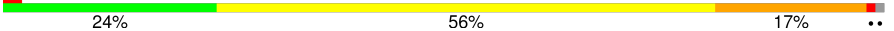
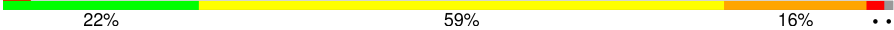

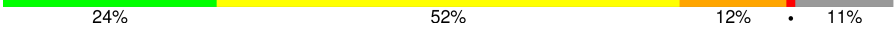
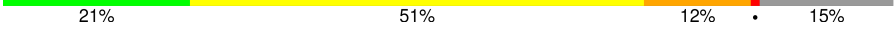
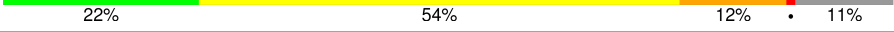
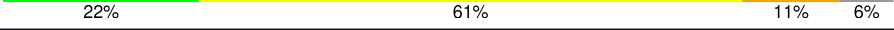
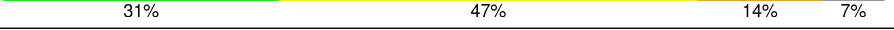



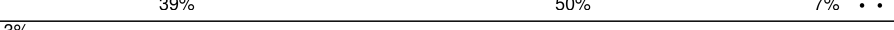


Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
R_{free}	91344	1018 (4.60-3.60)
Clashscore	102246	1117 (4.60-3.60)
Ramachandran outliers	100387	1063 (4.60-3.60)
Sidechain outliers	100360	1049 (4.60-3.60)
RSRZ outliers	91569	1022 (4.60-3.60)
RNA backbone	2183	1079 (5.04-2.80)

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	
1	B	315	
1	F	315	
1	G	315	

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Mol	Chain	Length	Quality of chain
1	K	315	
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	P	27	
6	Q	33	
7	X	156	
7	Y	156	
7	Z	156	

2 Entry composition

There are 9 unique types of molecules in this entry. The entry contains 74250 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	223	Total	C	N	O	S	0	0	0
			1759	1123	306	328	2			
1	F	222	Total	C	N	O	S	0	0	0
			1750	1117	304	327	2			
1	G	223	Total	C	N	O	S	0	0	0
			1759	1123	306	328	2			
1	K	222	Total	C	N	O	S	0	0	0
			1750	1117	304	327	2			
1	L	223	Total	C	N	O	S	0	0	0
			1759	1123	306	328	2			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	C	1106	Total	C	N	O	S	0	0	0
			8733	5525	1558	1626	24			
2	H	1103	Total	C	N	O	S	0	0	0
			8710	5508	1555	1623	24			
2	M	1105	Total	C	N	O	S	0	0	0
			8729	5523	1557	1625	24			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
3	D	1349	Total	C	N	O	S	0	0	0
			10651	6740	1888	1991	32			
3	I	1289	Total	C	N	O	S	0	0	0
			10182	6444	1804	1903	31			
3	N	1351	Total	C	N	O	S	0	0	0
			10667	6749	1891	1995	32			

- 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	92	Total	C	N	O	S	0	0	0
			749	478	130	137	4			
4	O	93	Total	C	N	O	S	0	0	0
			754	481	131	138	4			

- Molecule 5 is a DNA chain called DNA (5'-D(*GP*GP*TP*CP*TP*GP*TP*AP*TP*CP*AP*CP*GP*AP*GP*CP*CP*AP*CP*CP*GP*CP*CP*GP*CP*AP*T)-3').

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
5	P	6	Total	C	N	O	P	0	0	0
			120	56	22	36	6			

- Molecule 6 is a RNA chain called RNA (5'-R(*CP*CP*CP*CP*GP*GP*AP*AP*GP*AP*UP*CP*AP*UP*CP*UP*UP*CP*CP*GP*GP*GP*GP*GP*AP*U*GP*CP*GP*GP*CP*GP*G)-3').

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
6	Q	7	Total	C	N	O	P	0	0	0
			152	68	31	47	6			

- Molecule 7 is a protein called Anti-cleavage anti-GreA transcription factor Gfh1.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
7	X	152	Total	C	N	O	S	0	0	0
			1169	719	207	239	4			
7	Y	152	Total	C	N	O	S	0	0	0
			1169	719	207	239	4			
7	Z	152	Total	C	N	O	S	0	0	0
			1169	719	207	239	4			

- Molecule 8 is ZINC ION (three-letter code: ZN) (formula: Zn).

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

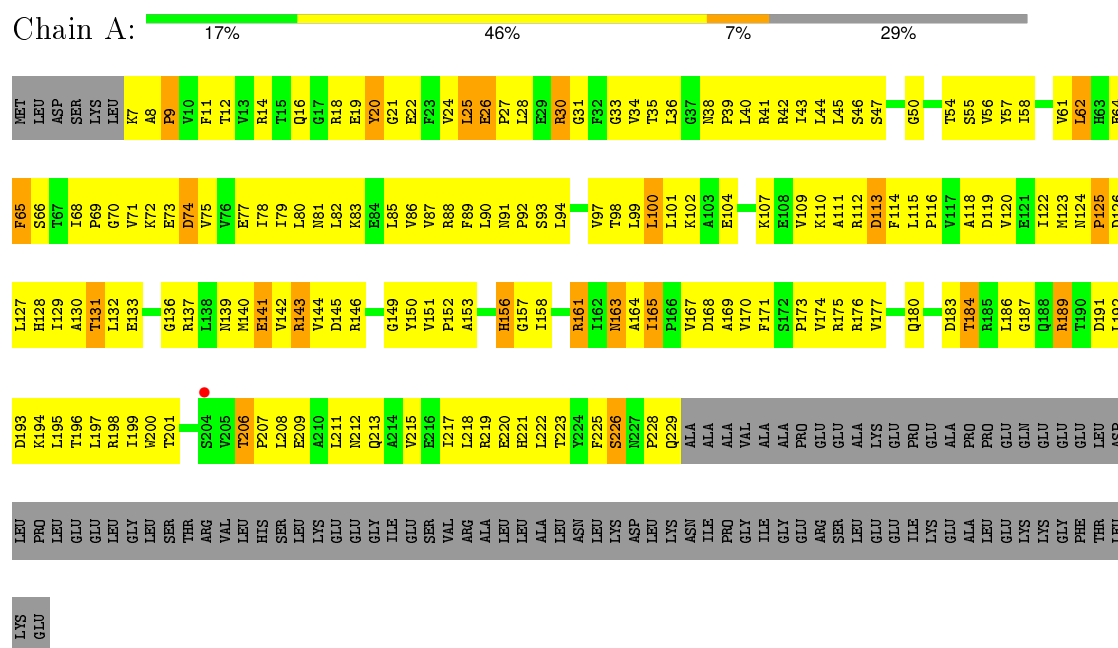
- Molecule 9 is MAGNESIUM ION (three-letter code: MG) (formula: Mg).

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

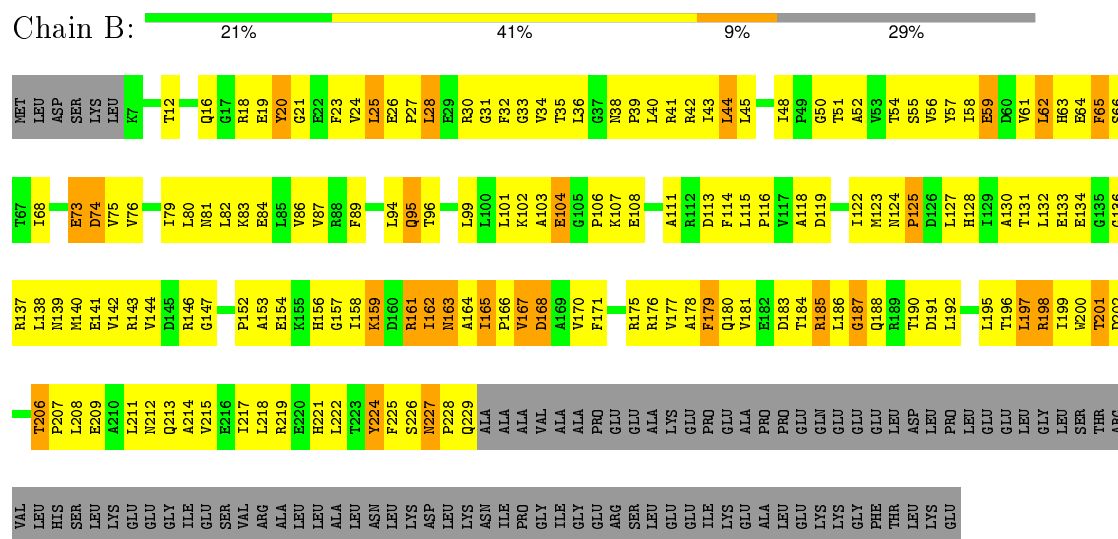
3 Residue-property plots

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

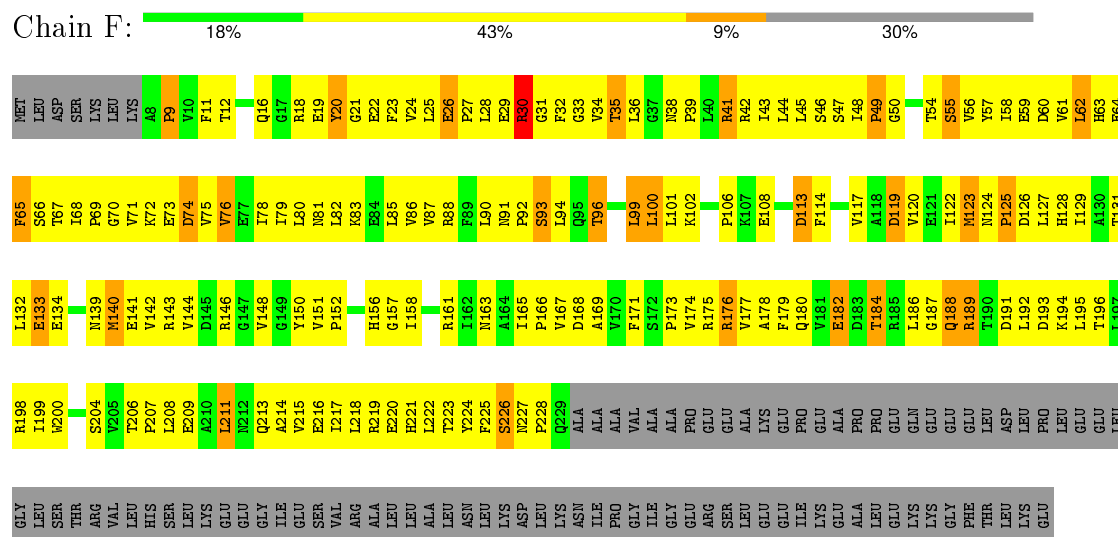
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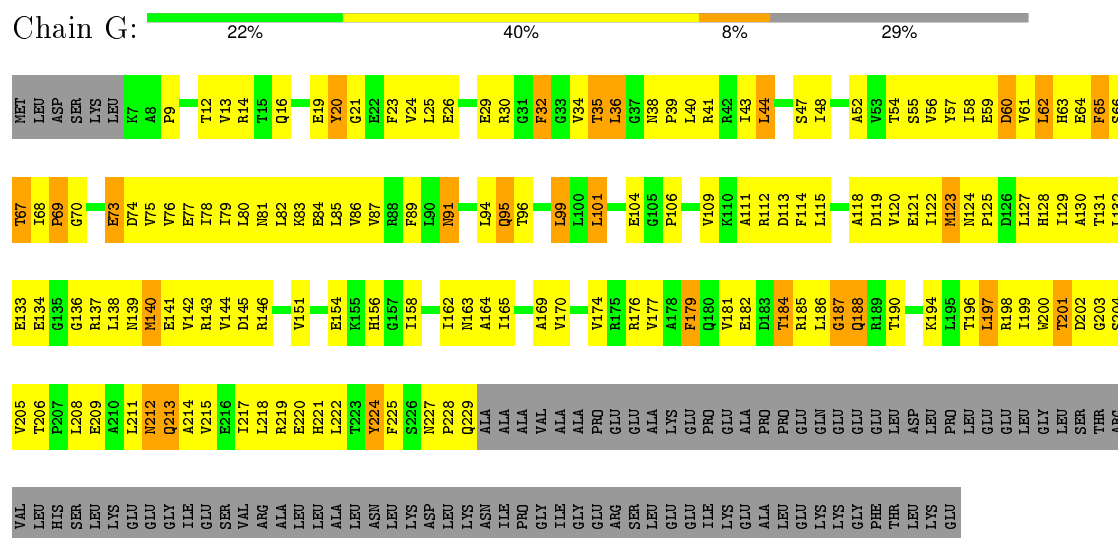
• Molecule 1: DNA-directed RNA polymerase subunit alpha



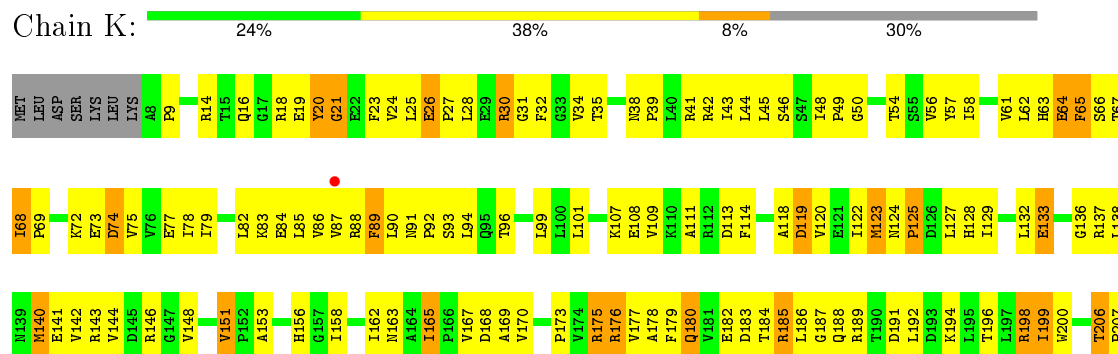
- Molecule 1: DNA-directed RNA polymerase subunit alpha

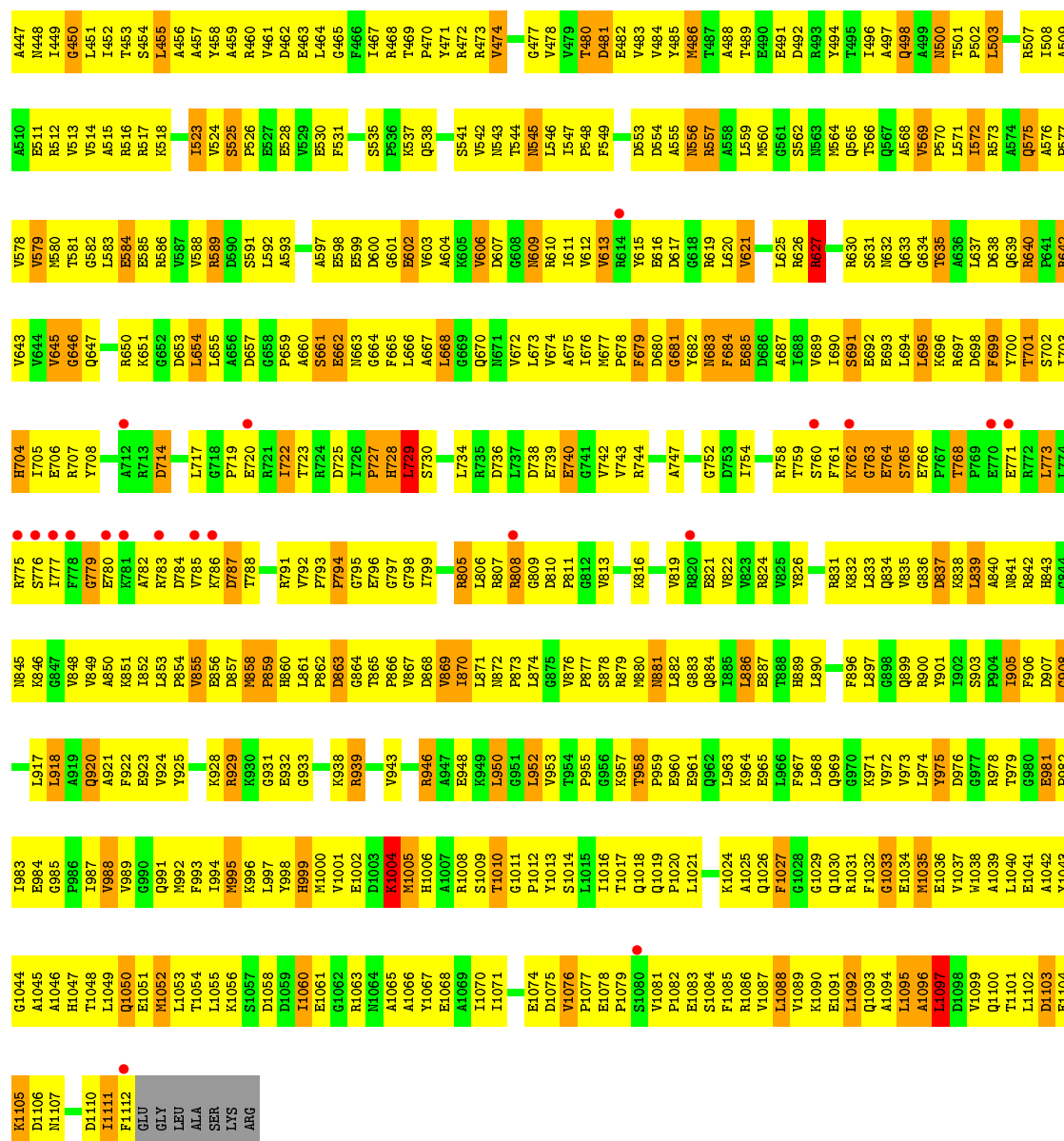


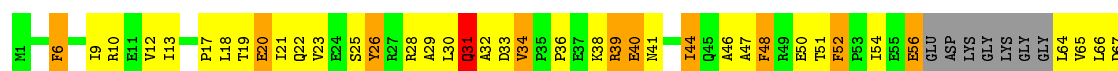
- Molecule 1: DNA-directed RNA polymerase subunit alpha



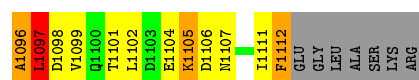
- Molecule 1: DNA-directed RNA polymerase subunit alpha



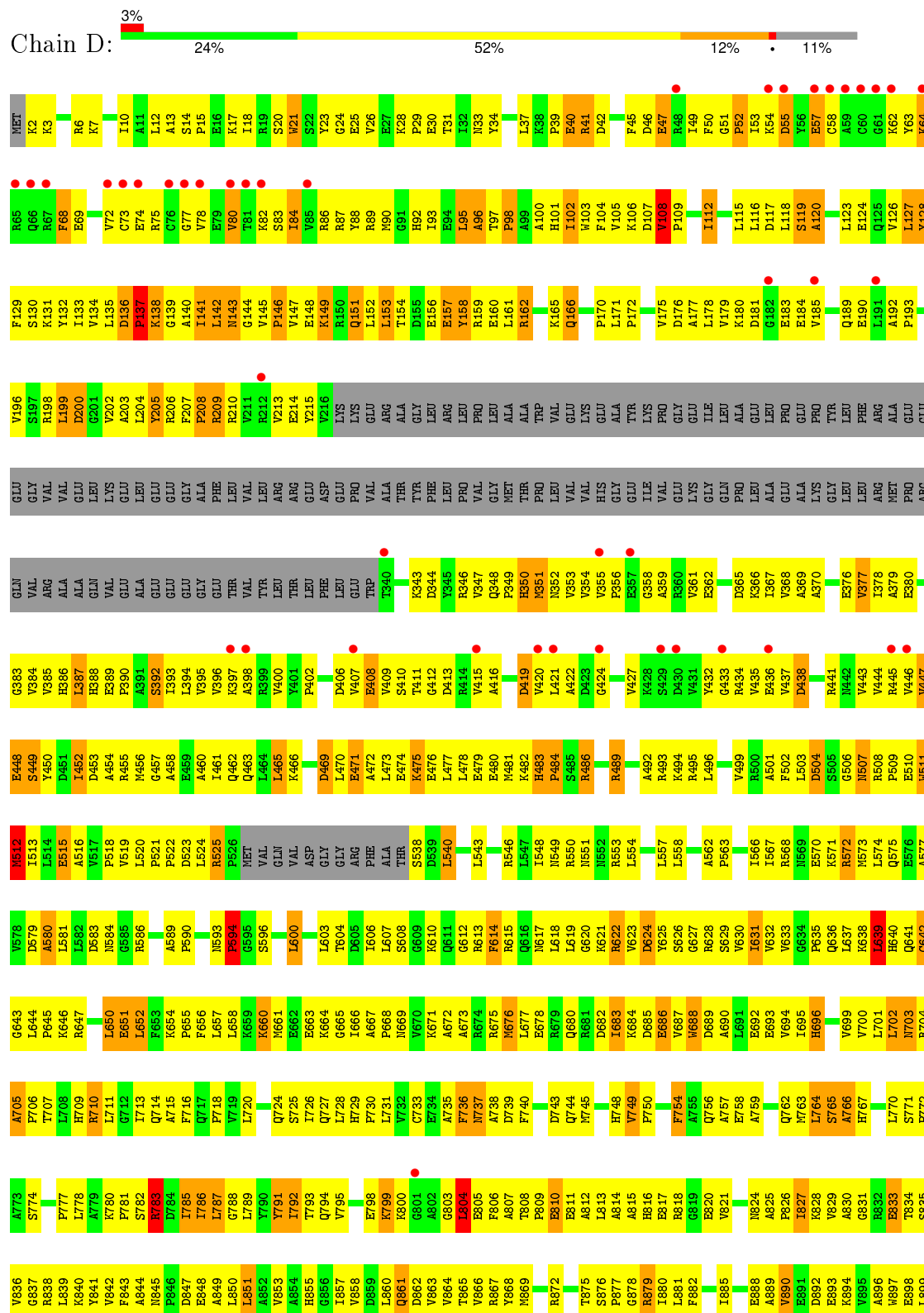


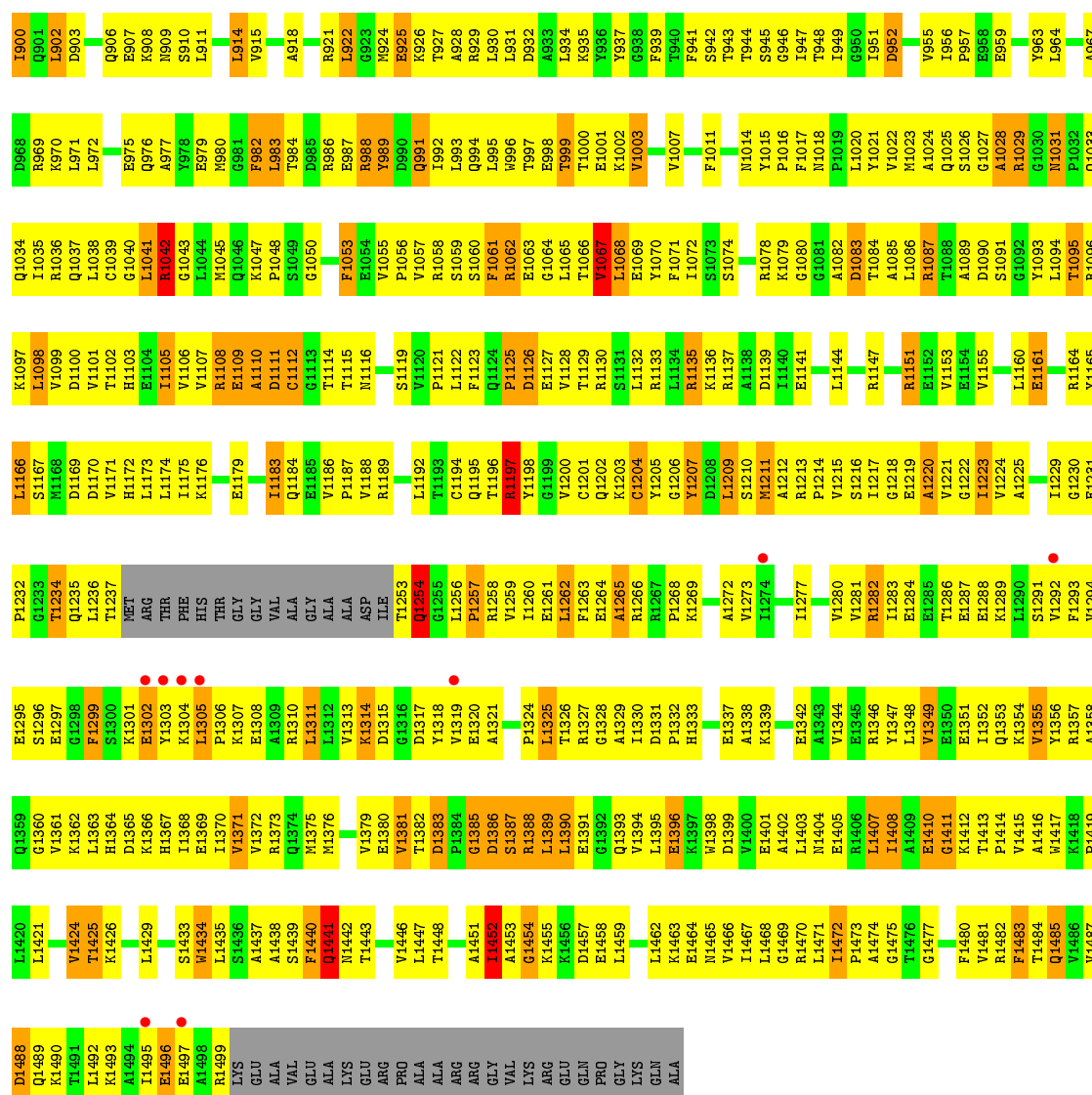


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M1036	V973	V973	I902	L839	I768	H704	R642	L572	L503	P440	R376	T314	K252	F191	M130	L69
V1037	L974	V974	S903	R840	P769	I705	V643	A574	B504	V441	R377	A315	A253	L193		E70
M1038	R905	R905	P904	R841	E706	E706	V644	Q575		E442	L378	G316	V254	L193	D133	Y71
A1039	R906	R906	I905	R842	E707	R707	V645		I508	T443	E379	V317	A255	V194	R134	R72
L1040	G977	G977	D907	R843	L710	L710	G646	V678	A509	P444	A380	G318	A256	L195	V135	L73
E1041	R978	R978	G908	K846	E711	E711	R648	V579	B511	E445	A381	G319	V257	L196	G74	G74
A1042	T979	T979	A909	G847	A712	A712	V649	P580	B512	A447	R383	E321	G259	L197	V137	E75
Y1043	G980	G980	K910	V848	R713	R713	R650		V513	I448	F385	V322	L261	V199	P77	F77
G1044	E981	E981	E911	R849	R714	R714		L583	V514	I449	F385			L200	F78	F78
A1045	P982	P982	P912	D853	T715	T715	D653	E584	A515	G450	F386	I325	A262	G201	P79	P79
A1046	K850	K850	R913	L654	R716	R716	L654	E585	R516	L451	R387	R326	D263	Y202	R80	R80
H1047	L852	L852	K915	L655	L717	L717	L656	R586	R517	L452	R388	R327	P264	D203	S143	C83
T1048	L853	L853	K915	A656	G718	G718	A656	V587		T453	R389	L328	R266	Q204	P144	R84
L1049	P854	P854	E923	D657	P719	P719	D657	V588	P521	S454	Q390	G329	R266	E205	G145	E85
Q1050	R855	R855	V924	G658	E720	E720	G658	R589	V522	L455	S392	N330	Y267	T206	V146	E85
E1051	E856	E856	A919	P659	R721	R721	P659	I523	I523	A456	L391	R331	D268	L207	Y147	X86
M1052	D857	D857	Q920	A680	I722	I722	A680	V524	V524	A457	Q393	R332	L269	A208	D87	D87
L1053	R858	R858	A921	S661	T723	T723	S661	L592	S525	Y458	F394	R333	G270	R209	T149	L88
T1054	F922	F922	F922	E662	R724	R724	E662	A593	P526	A459	K395	R334	E271	E210	P150	T89
Q991	G991	G991	Y925	N663	I726	I726	N663	Y596	E527	V461	D396	T335	A272	L211	D151	Y90
I1055	I994	I994	V924	P665	I727	I727	P665	A597	E528	D462	D397	G337	R273	A213	P152	Q91
S1056	N995	N995	Y925	L666	P727	P727	L666	E598	F531	R463	P400	G337	Y275	Y214	R153	A92
S1057	K996	K996	Y925	A667			A667	E599	B532	L464	L401	L339	K276	G215	R154	P93
D1058	L997	L997	K928	L668	S730	S730	L668	D600	D533		S402	R340	A277	E216	P155	L94
D1059	T998	T998	R929	G669	E731	E731	G669	G601	V534	F466	S403	R340	E278	L217	G156	Y95
E1060	H999	H999	K930	E669	A732	A732	E669	P540	F540	T341	L404	D342	E279	V218	R157	A96
K1061	G1062	G1062	G931	R867	E733	E733	R867	S541	S541	R472	L410	L348	R284	E223	P163	H102
R1062	M1000	M1000	G795	E802	A734	A734	E802	V542	V542	R473	A412	L348	E285	E224	K103	K103
G1063	V1001	V1001	E932	D868	L734	L734	D868	V603	P536	R468	A413	A349	S225	D104	L165	D104
M1064	Q933	Q933	G933	V869	R735	R735	V869	K537	K537	T469	K407	R344	L281	Q219	A160	Q99
A1065	L870	L870	I870	L870	R736	R736	L870	Q538	Q538	P470	R408	R345	G282	L221	S161	L100
A1066	L871	L871	L871	L871	L737	L737	L871	V539	V539	Y471	R409	V346	L283	M222	I162	I101
Y1067	N872	N872	D937	N872	D738	D738	N872	R609	R609	R472	R409	R353	R292	A228	P170	K109
I1070	R873	R873	R939	R873	E739	E739	R873	R610	R610	R473	S411	G354	F293	E232	W171	E110
A1071	L874	L874	E940	L874	R805	R805	L874	V542	V542	V474	A412	V355	E294	E232	D173	D111
R1072	G875	G875	V941	G875	L806	L806	G875	N543	N543		L413	R350	D295	E233	D173	E112
G1073	V876	V876	E942	V876	G741	G741	V876	T544	T544	V478	G414	L351	G296	V226	K167	T105
T1074	P877	P877	V943	P877	V742	V742	P877	R614	R614	V478	G414	L351	G296	F227	K167	G106
E1074	G809	G809	L944	G809	V743	V743	G809	Y615	Y615	V479	P415	A352	A291	G227	R168	L107
D1075	R879	R879	R945	R879	R744	R744	R879	L546	L546	T480		R353	R292	A228	G169	I108
V1076	N880	N880	R946	N880	A747	A747	N880	P548	P548	D481	T419	G354	F293	E232	W171	K109
P1077	N881	N881	K946	N881	E748	E748	N881	E483	E483		L418	V355	E294	E232	D173	E110
S1080	L882	L882	K949	L882	V749	V749	L882	V549	V549	V483	R420	R358	G296	E233	D173	E112
V1081	G883	G883	L950	G883	R750	R750	G883	L550	L550	V484	E421	K359	G296	A234	D173	E112
P1082	Q884	Q884	G951	Q884	P751	P751	Q884	B551	B551	Y485	R422	K359	G296	L235	L174	V113
E1083	T885	T885	G951	T885	P751	P751	T885	B552	B552	V486	A423	L360	F298	L235	E175	F114
S1084	L886	L886	V953	L886	V754	V754	L886	D553	D553	T487	G424	N361	K299	L238	V176	F115
F1085	E887	E887	V953	E887	L754	L754	E887	D554	D554	A488	F425	G362	D300	L238	E177	G116
R1086	T888	T888	T958	T888	V756	V756	T888	A555	A555	T489		S363	E301	F239	P178	H117
V1087	H889	H889	P959	H889	V757	V757	H889	N556	N556	E490	R428	E364	V302	T240	M179	I118
L1088	L890	L890	E960	L890	G757	G757	L890	R557	R557	E491	D429	D365	F303	L241	G180	F119
V1089	G891	G891	E960	G891	V758	V758	G891	A558	A558	Y494	V430	S366	L304	L242	V181	L120
K1090	Q962	Q962	E961	Q962	T759	T759	Q962	L559	L559	H431	H431	L367	P305	R243	V182	M121
E1091	L893	L893	Q962	L893	S760	S760	L893	M560	M560	T495	R432	T368	T306	P244	S183	T122
G1092	G1028	G1028	L963	G1028	R697	R697	G1028	T635	T635	I496	T433	P369	L307	G245	M184	E123
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A1093	R1031	R1031	E965	R1031	G763	G763	E965	L837	L837	Q498	Y435	K371	Y309	P247	V186	G125
M1094	Q1030	Q1030	L966	Q1030	E764	E764	L966	D638	D638	A499	G436	L372	L310	P248	M187	S126
L1095	G1033	G1033	F967	G1033	S765	S765	F967	Q639	Q639	N500	R437	L372	F311	R249	K188	F127
			L968		D837	D837	S702	R640	P570	T501	I438	N374	A312	R250	R189	I128

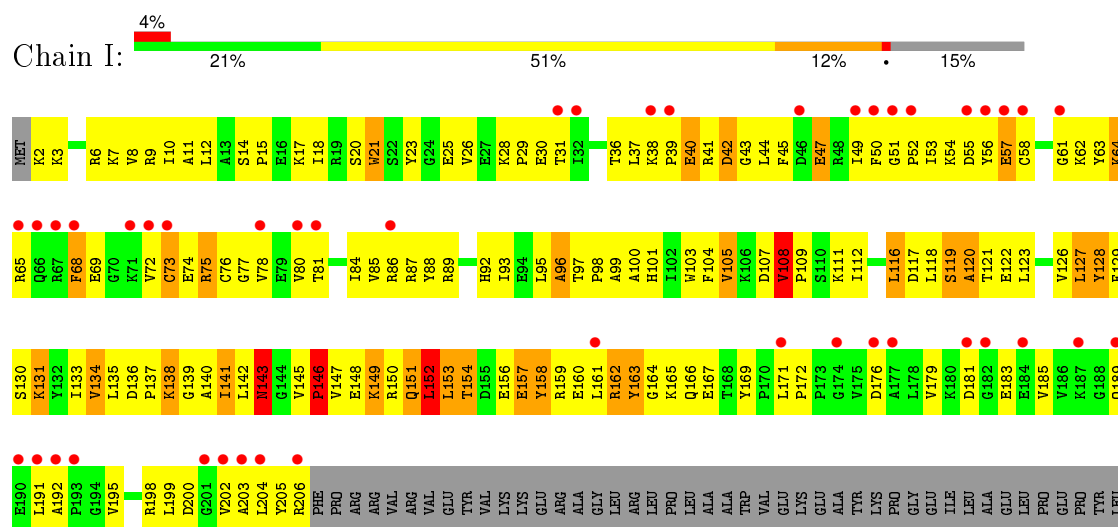


• Molecule 3: DNA-directed RNA polymerase subunit beta'

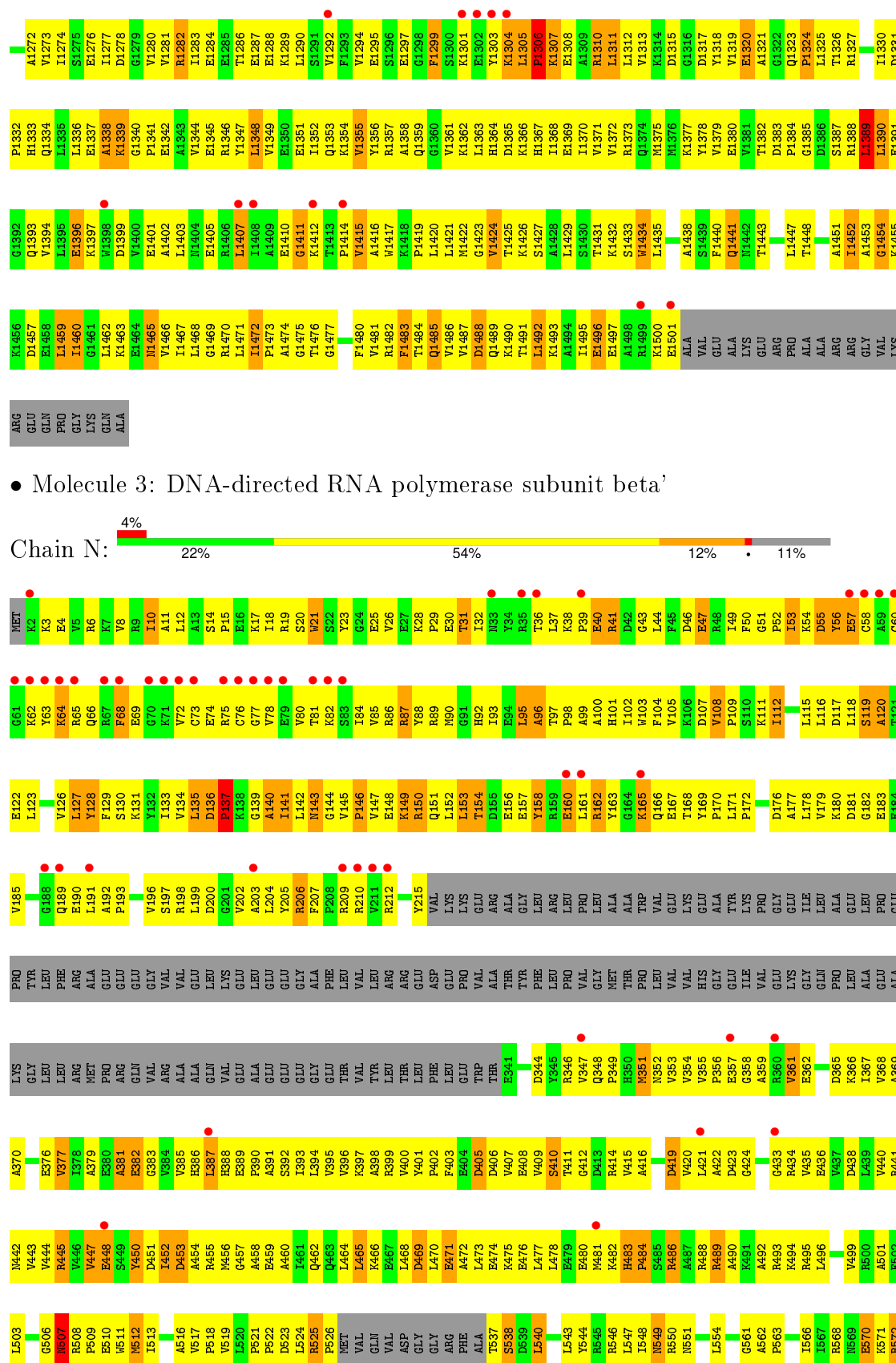




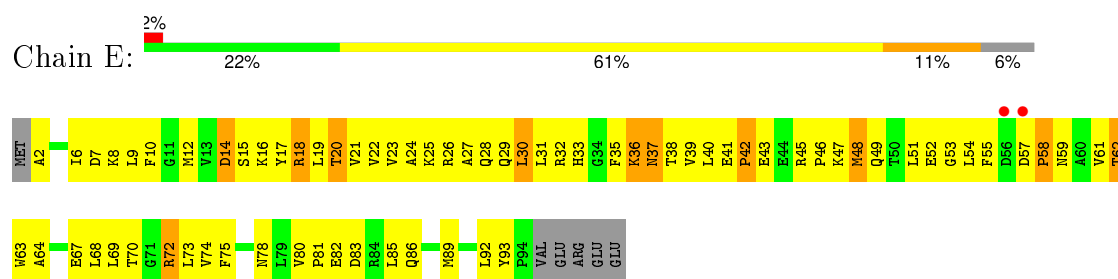
• Molecule 3: DNA-directed RNA polymerase subunit beta'



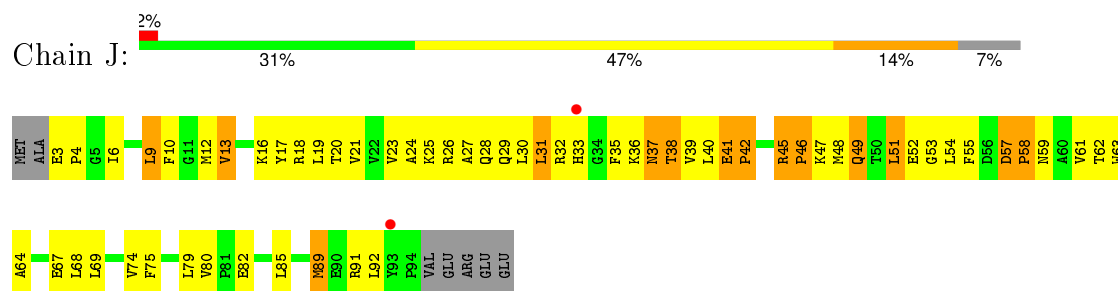
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E1141	E1146	I1072	F1011	I943	I880	H816	L751	L691	R628	Q560	E497	R434	ASP	ARG
S1210	A1142	S1073	N1014	T944	F882	E817	S752	E892	S629	V499	V498	V436	PRO	ALA
M1211		S1074				R818	S763	E693	V630	P563	V499	E436	GLU	GLU
A1212	Y1145	R1078	Y1015	T948	R884	G819	F754	V694	I631	E564	R500	D437	GLU	GLN
R1213	R1146	K1079	P1016	T949	T885	E820	A756	I695	V632	I565	A501	V438	GLU	GLY
V1215	V1148	G1080	F1017	G950	T886	V821	Q756	H896	V633	I566	F502	V439	VAL	VAL
	L1149		N1018				A757	G897	G634	I567	D504	R441	ILE	ARG
	L1149		P1019	I951	A887	N824	A758	K698	P635	H568	S505	R440	ALA	VAL
	R1151	D1083	Y1021	D952	A888	A825	A759	V699	Q636	N569	G06	V443	ALA	GLU
	R1151	G1218	Y1021	D953	A889	R826		V700	L637	E570	S505	V443	ALA	GLN
	V1155	A1085	Y1022	A954	V890	I827	Q762	L701	K638	K571	R507	V444	VAL	LYS
	L1156	L1086	M1023	V955	R891	K828	Q763	L702	R572	R572	R508	V445	GLY	GLU
		R1067	A1024	I956	D892	V829	L764	N703	R640	K573	P509	V446	ALA	LEU
		T1088	Q1025	P957	E893	A830	S765	R704	Q641	L574	M511	V447	GLU	GLU
			S1026	E958	R894	G831	A766	A705	C642	Q575	E511		GLU	GLU
			G1027	E959	V895	R832	H767	P706	G643	E576	R512		GLY	GLY
			A1028		A896	E833	L770	T707	L644	A577	V450		HIS	ALA
			R1029	Y963	R897	T834	L770	L708	P645	V578	D461		GLY	PHE
			G1030	L964	E896	S835	S771	R709	K646	D579	E515	I482	PRO	LEU
			R1031			V836	P772	R710	R647	A580	A516	I483	VAL	VAL
			N1031			R837	A773	L711	L581	P518	V517	I484	TYR	LEU
			Q1032	A967	R900	G837	G712	G712	A649	L582	P518	I485	ARG	ARG
			Q1033	D968	Q901	R838	S774	I713	D583	R539	V519	V456	THR	ARG
			Q1034	R969	R891	L839		L650	L651	N584	L520	O457	GLU	GLU
			Q1035	K970	K970	K840	L778	Q714	B651	N584	L520	O457	GLU	GLU
			L1035	L971	L971	Y841	A779	A715	L682	H586	P521	A458	ASP	ASP
			R1036			V842	K780	F716	F653	H586	P522	A458	GLU	GLU
			Q1037			R843	S781	Q717	K654	P590	P522	A458	GLU	GLU
			Q1038			A844	S782	P718	P655	P590	P522	A458	GLU	GLU
			Q1039			R838	A773	G712	P655	P590	P522	A458	GLU	GLU
			Q1040			R838	S774	G712	P655	P590	P522	A458	GLU	GLU
			Q1041			L839		L650	L651	N584	L520	O457	GLU	GLU
			Q1042			K840	L778	Q714	B651	N584	L520	O457	GLU	GLU
			L1042			Y841	A779	A715	L682	H586	P521	A458	ASP	ASP
			R1042			V842	K780	F716	F653	H586	P522	A458	GLU	GLU
			Q1043			R843	S781	Q717	K654	P590	P522	A458	GLU	GLU
			Q1044			A844	S782	P718	P655	P590	P522	A458	GLU	GLU
			Q1045			R838	A773	G712	P655	P590	P522	A458	GLU	GLU
			Q1046			L839		L650	L651	N584	L520	O457	GLU	GLU
			Q1047			K840	L778	Q714	B651	N584	L520	O457	GLU	GLU
			Q1048			Y841	A779	A715	L682	H586	P521	A458	ASP	ASP
			S1049			V842	K780	F716	F653	H586	P522	A458	GLU	GLU
			Q1049			R843	S781	Q717	K654	P590	P522	A458	GLU	GLU
			E1051			A844	S782	P718	P655	P590	P522	A458	GLU	GLU
			E1051			R838	A773	G712	P655	P590	P522	A458	GLU	GLU
			F1052			L839		L650	L651	N584	L520	O457	GLU	GLU
			F1053			K840	L778	Q714	B651	N584	L520	O457	GLU	GLU
			F1054			Y841	A779	A715	L682	H586	P521	A458	ASP	ASP
			Q1055			V842	K780	F716	F653	H586	P522	A458	GLU	GLU
			Q1056			R843	S781	Q717	K654	P590	P522	A458	GLU	GLU
			Q1057			A844	S782	P718	P655	P590	P522	A458	GLU	GLU
			Q1058			L839		L650	L651	N584	L520	O457	GLU	GLU
			Q1059			K840	L778	Q714	B651	N584	L520	O457	GLU	GLU
			Q1060			Y841	A779	A715	L682	H586	P521	A458	ASP	ASP
			Q1061			V842	K780	F716	F653	H586	P522	A458	GLU	GLU
			Q1062			R843	S781	Q717	K654	P590	P522	A458	GLU	GLU
			Q1063			A844	S782	P718	P655	P590	P522	A458	GLU	GLU
			Q1064			L839		L650	L651	N584	L520	O457	GLU	GLU
			Q1065			K840	L778	Q714	B651	N584	L520	O457	GLU	GLU
			Q1066			Y841	A779	A715	L682	H586	P521	A458	ASP	ASP
			Q1067			V842	K780	F716	F653	H586	P522	A458	GLU	GLU
			Q1068			R843	S781	Q717	K654	P590	P522	A458	GLU	GLU
			Q1069			A844	S782	P718	P655	P590	P522	A458	GLU	GLU
			Q1070			L839		L650	L651	N584	L520	O457	GLU	GLU
			Q1071			K840	L778	Q714	B651	N584	L520	O457	GLU	GLU
			Q1072			Y841	A779	A715	L682	H586	P521	A458	ASP	ASP
			Q1073			V842	K780	F716	F653	H586	P522	A458	GLU	GLU
			Q1074			R843	S781	Q717	K654	P590	P522	A458	GLU	GLU
			Q1075			A844	S782	P718	P655	P590	P522	A458	GLU	GLU
			Q1076			L839		L650	L651	N584	L520	O457	GLU	GLU
			Q1077			K840	L778	Q714	B651	N584	L520	O457	GLU	GLU
			Q1078			Y841	A779	A715	L682	H586	P521	A458	ASP	ASP
			Q1079			V842	K780	F716	F653	H586	P522	A458	GLU	GLU
			Q1080			R843	S781	Q717	K654	P590	P522	A458	GLU	GLU
			Q1081			A844	S782	P718	P655	P590	P522	A458	GLU	GLU
			Q1082			L839		L650	L651	N584	L520	O457	GLU	GLU
			Q1083			K840	L778	Q714	B651	N584	L520	O457	GLU	GLU
			Q1084			Y841	A779	A715	L682	H586	P521	A458	ASP	ASP
			Q1085			V842	K780	F716	F653	H586	P522	A458	GLU	GLU
			Q1086			R843	S781	Q717	K654	P590	P522	A458	GLU	GLU
			Q1087			A844	S782	P718	P655	P590	P522	A458	GLU	GLU
			Q1088			L839		L650	L651	N584	L520	O457	GLU	GLU
			Q1089			K840	L778	Q714	B651	N584	L520	O457	GLU	GLU
			Q1090			Y841	A779	A715	L682	H586	P521	A458	ASP	ASP
			Q1091			V842	K780	F716	F653	H586	P522	A458	GLU	GLU
			Q1092			R843	S781	Q717	K654	P590	P522	A458	GLU	GLU
			Q1093			A844	S782	P718	P655	P590	P522	A458	GLU	GLU
			Q1094			L839		L650	L651	N584	L520	O457	GLU	GLU
			Q1095			K840	L778	Q714	B651	N584	L520	O457	GLU	GLU
			Q1096			Y841	A779	A715	L682	H586	P521	A458	ASP	ASP
			Q1097			V842	K780	F716	F653	H586	P522	A458	GLU	GLU
			Q1098			R843	S781	Q717	K654	P590	P522	A458	GLU	GLU
			Q1099			A844	S782	P718	P655	P590	P522	A458	GLU	GLU
			Q1100			L839		L650	L651	N584	L520	O457	GLU	GLU
			Q1101			K840	L778	Q714	B651	N584	L520	O457	GLU	GLU
			Q1102			Y841	A779	A715	L682	H586	P521	A458	ASP	ASP
			Q1103			V842	K780	F716	F653	H586	P522	A458	GLU	GLU
			Q1104			R843	S781	Q717	K654	P590	P522	A458	GLU	GLU
			Q1105			A844	S782	P718	P655	P590	P522	A458	GLU	GLU
			Q1106			L839		L650	L651	N584	L520	O457	GLU	GLU
			Q1107			K840	L778	Q714	B651	N584	L520	O457	GLU	GLU
			Q1108			Y841	A779	A715	L682	H586	P521	A458	ASP	ASP
			Q1109			V842	K780	F716	F653	H586	P522	A458	GLU	GLU
			Q1110			R843	S781	Q717	K654	P590	P522	A458	GLU	GLU
			Q1111			A844	S782	P718	P655	P590	P522	A458	GLU	GLU
			Q1112			L839		L650	L651	N584	L520	O457	GLU	GLU
			Q1113			K840	L778	Q714	B651	N584	L520	O457	GLU	GLU
			Q1114			Y841	A779	A715	L682	H586	P521	A458	ASP	ASP
			Q1115			V842	K780	F716	F653	H586	P522	A458	GLU	GLU
			Q1116			R843	S781	Q717	K654	P590	P522	A458	GLU	GLU
			Q1117			A844	S782	P718	P655	P590	P522	A458	GLU	GLU
			Q1118			L839		L650	L651	N584	L520	O457	GLU	GLU
			Q1119			K840	L778	Q714	B651	N584	L520	O457	GLU	GLU
			Q1120			Y841	A779	A715	L682	H586	P521	A458	ASP	ASP
			Q1121			V842	K780	F716	F653	H586				



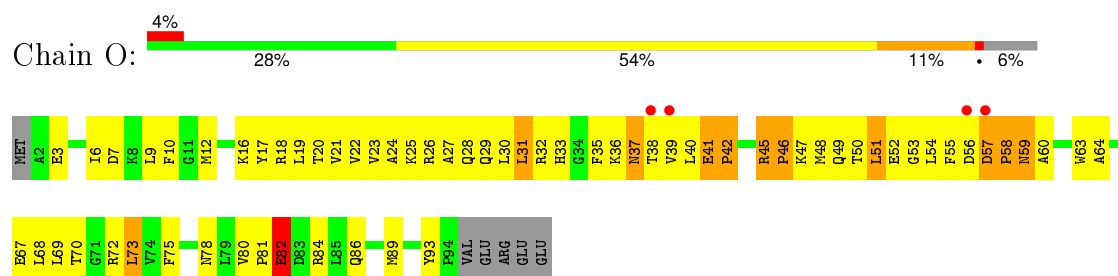
- Molecule 4: DNA-directed RNA polymerase subunit omega



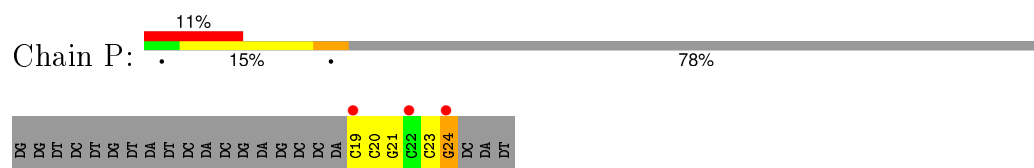
- Molecule 4: DNA-directed RNA polymerase subunit omega



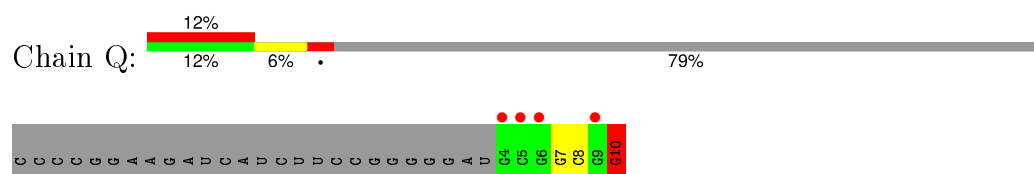
- Molecule 4: DNA-directed RNA polymerase subunit omega



- Molecule 5: DNA (5'-D(*GP*GP*TP*CP*TP*GP*TP*AP*TP*CP*AP*CP*GP*AP*GP*CP*CP*AP*CP*CP*GP*CP*CP*GP*CP*AP*T)-3')

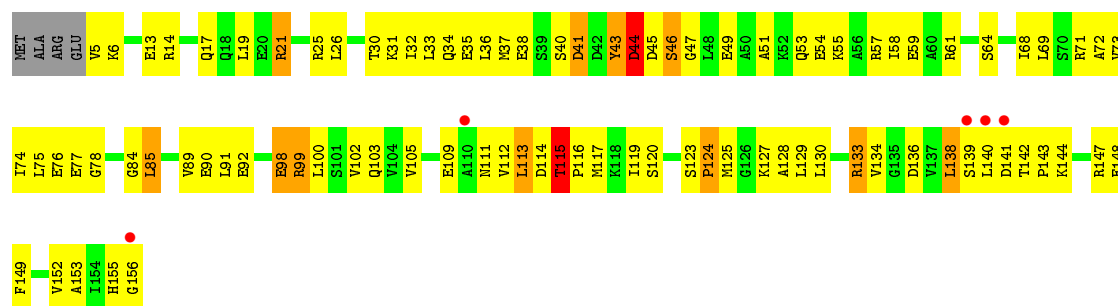


- Molecule 6: RNA (5'-R(*CP*CP*CP*CP*GP*GP*AP*AP*GP*AP*UP*CP*AP*UP*CP*UP*UP*CP*CP*GP*GP*GP*GP*AP*U*GP*CP*GP*GP*CP*GP*G)-3')

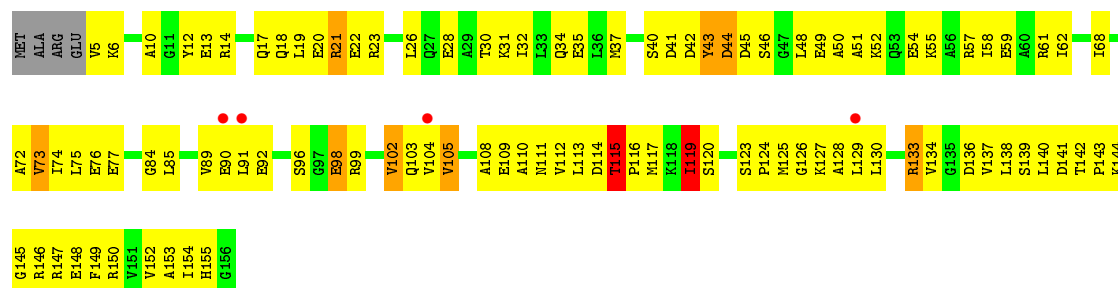


- Molecule 7: Anti-cleavage anti-GreA transcription factor Gfh1





- Molecule 7: Anti-cleavage anti-GreA transcription factor Gfh1



- Molecule 7: Anti-cleavage anti-GreA transcription factor Gfh1



4 Data and refinement statistics

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α , β , γ	192.76Å 260.70Å 198.56Å 90.00° 117.58° 90.00°	Depositor
Resolution (Å)	49.87 – 4.10 49.87 – 4.10	Depositor EDS
% Data completeness (in resolution range)	96.9 (49.87-4.10) 97.0 (49.87-4.10)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.25 (at 4.14Å)	Xtriage
Refinement program	CNS 1.2	Depositor
R, R_{free}	0.262 , 0.318 0.271 , 0.324	Depositor DCC
R_{free} test set	3932 reflections (2.98%)	DCC
Wilson B-factor (Å ²)	136.4	Xtriage
Anisotropy	0.211	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.25 , 83.3	EDS
Estimated twinning fraction	0.038 for h,-k,-h-l	Xtriage
L-test for twinning ²	$\langle L \rangle = 0.44$, $\langle L^2 \rangle = 0.27$	Xtriage
Outliers	0 of 131785 reflections	Xtriage
F_o, F_c correlation	0.87	EDS
Total number of atoms	74250	wwPDB-VP
Average B, all atoms (Å ²)	171.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 1.77% of the height of the origin peak. No significant pseudotranslation is detected.*

¹Intensities estimated from amplitudes.

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

5 Model quality ⓘ

5.1 Standard geometry ⓘ

Bond lengths and bond angles in the following residue types are not validated in this section: 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	0.44	0/1791	0.75	1/2436 (0.0%)
1	B	0.45	0/1791	0.71	0/2436
1	F	0.47	0/1782	0.76	0/2425
1	G	0.47	0/1791	0.73	0/2436
1	K	0.43	0/1782	0.72	0/2425
1	L	0.45	0/1791	0.71	0/2436
2	C	0.49	0/8900	0.84	12/12038 (0.1%)
2	H	0.52	1/8876 (0.0%)	0.85	13/12006 (0.1%)
2	M	0.48	0/8896	0.80	8/12033 (0.1%)
3	D	0.49	0/10832	0.81	8/14638 (0.1%)
3	I	0.50	0/10351	0.81	13/13979 (0.1%)
3	N	0.48	0/10848	0.81	10/14658 (0.1%)
4	E	0.53	1/768 (0.1%)	0.77	1/1035 (0.1%)
4	J	0.46	0/763	0.77	1/1028 (0.1%)
4	O	0.60	0/768	0.88	3/1035 (0.3%)
5	P	0.94	0/133	1.17	0/202
6	Q	1.22	0/170	1.09	1/265 (0.4%)
7	X	0.40	0/1178	0.74	1/1582 (0.1%)
7	Y	0.41	0/1178	0.74	1/1582 (0.1%)
7	Z	0.41	0/1178	0.76	0/1582
All	All	0.49	2/75567 (0.0%)	0.80	73/102257 (0.1%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
2	C	0	2
2	H	0	1
2	M	0	1

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Mol	Chain	#Chirality outliers	#Planarity outliers
3	I	0	1
3	N	0	1
5	P	0	1
6	Q	0	1
7	Z	0	1
All	All	0	9

All (2) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	H	258	TYR	CB-CG	-5.54	1.43	1.51
4	E	43	GLU	CB-CG	5.46	1.62	1.52

All (73) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	H	1097	LEU	CA-CB-CG	10.26	138.90	115.30
3	D	142	LEU	CA-CB-CG	9.03	136.07	115.30
3	D	804	LEU	CA-CB-CG	-8.40	95.97	115.30
3	D	1209	LEU	N-CA-C	-8.10	89.14	111.00
3	N	1209	LEU	N-CA-C	-8.07	89.20	111.00
3	I	1209	LEU	N-CA-C	-7.88	89.72	111.00
2	H	115	LEU	CA-CB-CG	7.52	132.60	115.30
7	X	113	LEU	CA-CB-CG	7.44	132.41	115.30
4	J	49	GLN	N-CA-C	7.01	129.92	111.00
4	O	49	GLN	N-CA-C	6.88	129.59	111.00
6	Q	10	G	N9-C1'-C2'	-6.80	104.52	112.00
2	C	1097	LEU	CA-CB-CG	6.75	130.82	115.30
3	I	851	LEU	CA-CB-CG	-6.71	99.86	115.30
3	I	800	LYS	N-CA-C	6.70	129.08	111.00
4	E	49	GLN	N-CA-C	6.68	129.05	111.00
3	N	804	LEU	CA-CB-CG	-6.63	100.05	115.30
3	I	920	LEU	CA-CB-CG	6.54	130.34	115.30
2	C	319	GLY	N-CA-C	-6.49	96.88	113.10
2	H	319	GLY	N-CA-C	-6.48	96.91	113.10
2	C	765	SER	N-CA-C	6.33	128.09	111.00
2	M	319	GLY	N-CA-C	-6.31	97.33	113.10
3	N	1110	ALA	N-CA-C	-6.23	94.18	111.00
2	M	182	VAL	N-CA-C	-6.21	94.25	111.00
3	I	1389	LEU	CA-CB-CG	6.16	129.47	115.30
2	H	18	LEU	CA-CB-CG	-6.15	101.16	115.30
2	H	182	VAL	N-CA-C	-6.12	94.49	111.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	I	1110	ALA	N-CA-C	-6.11	94.51	111.00
3	N	1390	LEU	CA-CB-CG	6.06	129.24	115.30
2	C	281	LEU	CA-CB-CG	6.04	129.20	115.30
2	C	182	VAL	N-CA-C	-5.97	94.89	111.00
3	I	1068	LEU	CA-CB-CG	-5.92	101.69	115.30
2	H	1004	LYS	N-CA-C	5.90	126.92	111.00
3	N	1091	SER	N-CA-C	5.88	126.89	111.00
2	M	165	LEU	CB-CG-CD1	-5.87	101.02	111.00
2	C	1004	LYS	N-CA-C	5.83	126.73	111.00
2	C	795	GLY	N-CA-C	-5.82	98.55	113.10
2	C	773	LEU	CA-CB-CG	5.76	128.55	115.30
4	O	51	LEU	N-CA-C	-5.75	95.47	111.00
3	N	761	ILE	CB-CA-C	-5.72	100.16	111.60
2	M	514	VAL	CB-CA-C	-5.67	100.62	111.40
3	D	143	ASN	N-CA-C	-5.65	95.74	111.00
2	M	1004	LYS	N-CA-C	5.62	126.17	111.00
7	Y	119	ILE	CB-CA-C	-5.59	100.43	111.60
3	D	1042	ARG	N-CA-C	-5.58	95.93	111.00
3	I	800	LYS	CA-C-N	-5.54	105.13	116.20
3	I	143	ASN	N-CA-C	-5.52	96.09	111.00
3	I	1042	ARG	N-CA-C	-5.48	96.20	111.00
2	H	1057	SER	N-CA-C	5.48	125.79	111.00
2	C	250	ARG	N-CA-C	5.47	125.78	111.00
3	I	152	LEU	CA-CB-CG	5.45	127.83	115.30
3	D	1110	ALA	N-CA-C	-5.44	96.30	111.00
2	C	322	VAL	N-CA-C	-5.41	96.38	111.00
2	H	322	VAL	N-CA-C	-5.41	96.40	111.00
4	O	57	ASP	N-CA-C	5.40	125.59	111.00
2	H	773	LEU	CA-CB-CG	5.37	127.65	115.30
3	N	143	ASN	N-CA-C	-5.29	96.71	111.00
3	I	1127	GLU	N-CA-C	-5.26	96.80	111.00
2	C	729	LEU	N-CA-C	5.24	125.15	111.00
2	C	165	LEU	CB-CG-CD2	-5.24	102.10	111.00
3	N	1044	LEU	CA-CB-CG	-5.23	103.28	115.30
2	H	52	PHE	C-N-CD	5.19	139.30	128.40
2	H	795	GLY	N-CA-C	-5.18	100.15	113.10
2	H	261	ILE	N-CA-C	5.16	124.93	111.00
3	N	1042	ARG	N-CA-C	-5.16	97.08	111.00
2	M	261	ILE	N-CA-C	5.14	124.89	111.00
3	I	800	LYS	CA-CB-CG	-5.12	102.14	113.40
3	D	1126	ASP	N-CA-C	5.09	124.74	111.00
2	M	795	GLY	N-CA-C	-5.08	100.41	113.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	8	ALA	N-CA-C	-5.06	97.34	111.00
2	H	217	LEU	CA-CB-CG	-5.06	103.66	115.30
2	M	322	VAL	N-CA-C	-5.04	97.39	111.00
3	D	1116	ASN	N-CA-C	-5.03	97.42	111.00
3	N	1116	ASN	N-CA-C	-5.03	97.42	111.00

There are no chirality outliers.

All (9) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
2	C	258	TYR	Sidechain
2	C	71	TYR	Sidechain
2	H	71	TYR	Sidechain
3	I	1070	TYR	Sidechain
2	M	258	TYR	Sidechain
3	N	56	TYR	Sidechain
5	P	24	DG	Sidechain
6	Q	10	G	Sidechain
7	Z	43	TYR	Sidechain

5.2 Too-close contacts

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	1759	0	1805	210	0
1	B	1759	0	1805	226	0
1	F	1750	0	1792	251	0
1	G	1759	0	1805	230	0
1	K	1750	0	1792	199	0
1	L	1759	0	1805	196	0
2	C	8733	0	8834	1393	1
2	H	8710	0	8811	1418	2
2	M	8729	0	8831	1386	0
3	D	10651	0	10880	1742	2
3	I	10182	0	10418	1528	0
3	N	10667	0	10894	1632	1
4	E	754	0	769	96	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
4	J	749	0	764	106	0
4	O	754	0	769	107	0
5	P	120	0	67	10	0
6	Q	152	0	78	7	0
7	X	1169	0	1186	114	0
7	Y	1169	0	1186	129	0
7	Z	1169	0	1186	145	0
8	D	1	0	0	0	0
8	I	1	0	0	0	0
8	N	1	0	0	0	0
9	D	1	0	0	0	0
9	I	1	0	0	0	0
9	N	1	0	0	0	0
All	All	74250	0	75477	10329	3

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 69.

All (10329) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:282:GLY:O	2:H:283:ILE:HG13	1.34	1.25
3:D:1093:TYR:OH	3:D:1097:LYS:HE3	1.07	1.25
3:D:1093:TYR:OH	3:D:1097:LYS:CE	1.85	1.23
2:C:987:ILE:HG23	3:D:948:THR:HG21	1.20	1.20
3:I:108:VAL:HB	3:I:109:PRO:HD3	1.20	1.19
7:Z:120:SER:HB2	7:Z:123:SER:HB2	1.26	1.18
3:D:1481:VAL:HG11	4:E:18:ARG:HA	1.19	1.17
2:C:239:PHE:CZ	2:C:252:LYS:HA	1.77	1.17
2:H:425:PHE:CE1	3:I:1079:LYS:NZ	2.12	1.17
4:J:54:LEU:CG	4:J:58:PRO:HG2	1.75	1.16
3:N:356:PRO:HA	3:N:440:VAL:O	1.45	1.16
3:N:1235:GLN:HB2	7:Z:37:MET:HE3	1.20	1.16
1:F:42:ARG:HH12	2:H:857:ASP:HB3	1.08	1.15
2:H:495:THR:HG21	2:H:517:ARG:HH21	1.10	1.15
2:H:1046:ALA:HB1	3:I:1471:LEU:HD11	1.23	1.15
3:D:119:SER:HB2	3:D:123:LEU:HB2	1.18	1.15
2:H:987:ILE:HG23	3:I:948:THR:HG21	1.25	1.14
2:C:408:ARG:HH21	2:C:455:LEU:HD11	0.99	1.14
2:C:290:LEU:HB3	2:C:302:VAL:HG11	1.16	1.14
3:I:164:GLY:O	2:M:209:ARG:HG2	1.44	1.14

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:809:PRO:HB2	3:D:812:ALA:HB2	1.23	1.14
1:A:35:THR:HG21	1:B:43:ILE:HD11	1.24	1.14
2:C:1090:LYS:HE3	3:D:90:MET:HG3	1.27	1.14
1:K:206:THR:HG22	1:K:209:GLU:HG3	1.27	1.13
2:C:861:LEU:HG	2:C:862:PRO:HD2	1.31	1.13
3:I:800:LYS:HG2	3:I:826:PRO:CD	1.78	1.13
2:C:675:ALA:HA	2:C:989:VAL:HG12	1.25	1.13
2:H:101:ILE:HG23	2:H:107:LEU:HD22	1.20	1.12
1:L:62:LEU:HD12	1:L:63:HIS:H	1.13	1.12
1:B:74:ASP:HB2	3:D:872:ARG:HH22	1.00	1.12
3:I:1211:MET:HG2	3:I:1212:ALA:H	1.01	1.12
3:D:87:ARG:HB3	3:D:523:ASP:HB2	1.23	1.12
3:N:1095:THR:O	3:N:1099:VAL:HG23	1.48	1.12
1:A:42:ARG:HH12	1:B:34:VAL:HB	1.03	1.12
3:N:1379:VAL:HG12	3:N:1419:PRO:HA	1.30	1.12
2:C:144:PRO:HG2	2:C:265:ARG:NH1	1.65	1.12
2:C:144:PRO:HG2	2:C:265:ARG:HH12	1.11	1.11
3:N:143:ASN:HA	3:N:161:LEU:HD21	1.33	1.11
2:C:834:GLN:HE22	3:D:724:GLN:HG3	1.12	1.11
3:N:984:THR:CG2	3:N:987:GLU:HG2	1.80	1.11
3:D:785:ILE:HD12	3:D:785:ILE:H	1.14	1.10
1:K:58:ILE:HD13	1:K:140:MET:HB3	1.34	1.10
2:H:170:PRO:HG2	2:H:258:TYR:HE2	0.97	1.10
2:C:274:ARG:HB2	2:C:285:LEU:HD13	1.33	1.10
2:H:170:PRO:HG2	2:H:258:TYR:CE2	1.87	1.10
2:M:689:VAL:HB	2:M:870:ILE:HG12	1.31	1.10
3:N:356:PRO:HB2	3:N:359:ALA:HB2	1.10	1.10
3:N:908:LYS:HB2	3:N:1027:GLY:HA3	1.28	1.10
4:O:54:LEU:CG	4:O:58:PRO:HG2	1.81	1.10
2:H:544:THR:O	2:H:547:ILE:HD12	1.52	1.10
3:N:643:GLY:HA3	3:N:727:GLN:HB2	1.24	1.10
2:C:1081:VAL:HG21	2:C:1111:ILE:HG22	1.15	1.09
3:I:800:LYS:HG2	3:I:826:PRO:HD3	1.24	1.09
3:N:1481:VAL:HG11	4:O:18:ARG:HA	1.17	1.09
2:C:1082:PRO:HG2	3:D:1469:GLY:HA3	1.34	1.09
3:N:108:VAL:HB	3:N:109:PRO:HD3	1.33	1.09
2:C:1046:ALA:HB1	3:D:1471:LEU:HD11	1.32	1.09
3:I:181:ASP:HB3	3:I:441:ARG:HD3	1.33	1.09
3:D:1087:ARG:NH2	7:X:43:TYR:CE2	2.19	1.09
3:D:1123:PHE:HE2	3:D:1184:GLN:HA	1.16	1.09
2:M:1046:ALA:HB1	3:N:1471:LEU:HD11	1.14	1.09

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:827:ILE:H	3:N:827:ILE:HD12	1.16	1.09
2:C:1086:ARG:HB2	2:C:1112:PHE:HE2	1.16	1.08
3:D:137:PRO:HG3	3:D:453:ASP:H	0.96	1.08
2:C:325:ILE:HD12	2:C:325:ILE:H	1.18	1.08
4:J:54:LEU:HG	4:J:58:PRO:CG	1.81	1.08
2:H:556:ASN:ND2	7:Y:45:ASP:OD1	1.84	1.08
1:G:30:ARG:HH22	2:H:854:PRO:HG3	1.18	1.07
2:H:857:ASP:HB2	2:H:978:ARG:HG2	1.34	1.07
3:D:133:ILE:O	3:D:152:LEU:HB2	1.53	1.07
3:I:543:LEU:HD22	3:I:580:ALA:HB1	1.36	1.07
2:C:1092:LEU:HD13	2:C:1099:VAL:HG21	1.32	1.07
2:M:1082:PRO:HG2	3:N:1469:GLY:HA3	1.37	1.07
3:N:109:PRO:HB3	3:N:494:LYS:NZ	1.68	1.07
2:C:141:HIS:HB3	2:C:418:LEU:HD23	1.36	1.07
3:D:804:LEU:HB2	3:D:831:GLY:HA2	1.31	1.06
3:N:1235:GLN:HE21	7:Z:37:MET:HG2	1.14	1.06
2:M:110:GLU:HG3	2:M:369:PRO:HB3	1.36	1.06
2:H:191:PHE:HZ	2:H:196:LEU:HB2	1.18	1.06
2:C:878:SER:HA	3:D:1034:GLN:HE22	0.97	1.06
3:N:137:PRO:HG3	3:N:453:ASP:H	0.97	1.06
3:N:1211:MET:HG2	3:N:1212:ALA:H	1.14	1.06
3:I:1320:GLU:HG2	3:I:1339:LYS:NZ	1.69	1.06
3:I:521:PRO:HB2	3:I:524:LEU:HD13	1.37	1.05
3:D:176:ASP:HB3	3:D:389:GLU:HG2	1.07	1.05
3:D:1087:ARG:NH2	7:X:43:TYR:HE2	1.49	1.05
2:M:110:GLU:CG	2:M:369:PRO:HB3	1.85	1.05
3:I:29:PRO:HG3	3:I:549:ASN:HD21	1.22	1.05
3:I:1379:VAL:HG12	3:I:1419:PRO:HA	1.34	1.05
2:H:110:GLU:HG3	2:H:369:PRO:HG3	1.34	1.05
3:I:1209:LEU:HD23	3:I:1211:MET:H	1.21	1.05
3:N:119:SER:HB2	3:N:123:LEU:HB2	1.37	1.05
3:D:1166:LEU:HD23	3:D:1166:LEU:H	1.21	1.05
1:A:184:THR:OG1	1:A:192:LEU:HB2	1.55	1.05
2:C:1090:LYS:HE3	3:D:90:MET:CG	1.86	1.04
3:D:643:GLY:HA3	3:D:727:GLN:HB2	1.39	1.04
2:C:939:ARG:HA	2:C:939:ARG:HE	1.14	1.04
3:N:705:ALA:HB3	3:N:706:PRO:HD3	1.38	1.04
3:N:166:GLN:HE22	3:N:394:LEU:HB2	1.19	1.04
2:M:1004:LYS:HG2	3:N:630:VAL:HG23	1.37	1.04
2:C:578:VAL:HG23	2:C:579:VAL:HG12	1.33	1.04
3:N:153:LEU:HD13	3:N:158:TYR:HB2	1.39	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:369:PRO:HG2	2:M:370:ALA:H	1.22	1.04
2:C:312:ALA:HB1	2:C:318:PRO:HG2	1.39	1.04
3:N:206:ARG:HE	3:N:206:ARG:HA	1.22	1.04
2:C:265:ARG:HB3	2:C:267:TYR:CE2	1.93	1.03
3:N:206:ARG:HB2	3:N:392:SER:O	1.57	1.03
2:H:49:ARG:HA	2:H:52:PHE:HD2	1.21	1.03
3:D:631:ILE:HD12	3:D:743:ASP:O	1.57	1.03
2:H:290:LEU:HB3	2:H:302:VAL:HG11	1.40	1.03
3:I:820:GLU:HG3	3:I:836:VAL:HG21	1.40	1.03
1:G:56:VAL:HG22	1:G:142:VAL:HG12	1.39	1.03
3:I:1481:VAL:HG11	4:J:18:ARG:HA	1.41	1.03
3:I:163:TYR:HB3	2:M:209:ARG:CZ	1.89	1.03
3:D:84:ILE:HG22	3:D:87:ARG:HE	1.22	1.03
2:M:74:GLY:O	2:M:76:PRO:HD3	1.58	1.03
2:C:69:LEU:HD12	2:C:97:ARG:HB3	1.38	1.03
2:C:857:ASP:HB2	2:C:978:ARG:HG2	1.36	1.03
3:D:1211:MET:HG2	3:D:1212:ALA:H	1.17	1.03
3:N:820:GLU:HG3	3:N:836:VAL:HG21	1.36	1.03
2:H:69:LEU:HD12	2:H:97:ARG:HB3	1.41	1.03
3:I:1472:ILE:H	3:I:1472:ILE:HD13	1.18	1.03
3:I:119:SER:HB2	3:I:123:LEU:HB2	1.40	1.03
3:D:1066:THR:HG22	3:D:1069:GLU:HB2	1.37	1.02
3:N:470:LEU:HB2	3:N:503:LEU:HD21	1.39	1.02
2:M:874:LEU:O	3:N:1029:ARG:HD2	1.59	1.02
4:O:54:LEU:HG	4:O:58:PRO:HG2	1.03	1.02
3:N:87:ARG:HB3	3:N:523:ASP:HB2	1.42	1.02
3:I:1025:GLN:HE21	3:I:1025:GLN:HA	1.19	1.02
3:I:807:ALA:HA	3:I:833:GLU:HG2	1.40	1.02
3:N:843:PHE:HE1	3:N:864:VAL:HG11	1.24	1.02
3:N:983:LEU:HD23	3:N:983:LEU:H	1.24	1.02
2:H:689:VAL:HB	2:H:870:ILE:HG13	1.40	1.02
2:H:110:GLU:HG3	2:H:369:PRO:CG	1.88	1.02
3:N:1352:ILE:O	3:N:1355:VAL:HG23	1.58	1.02
3:I:137:PRO:HD3	3:I:453:ASP:O	1.58	1.02
2:H:165:LEU:HG	2:H:166:PRO:HA	1.42	1.01
2:H:606:VAL:HG23	2:H:645:VAL:HG13	1.42	1.01
3:N:357:GLU:CG	3:N:441:ARG:HG2	1.91	1.01
3:I:29:PRO:HG3	3:I:549:ASN:ND2	1.74	1.01
3:I:1253:THR:HG23	3:I:1258:ARG:HD3	1.42	1.01
3:I:809:PRO:HB2	3:I:812:ALA:HB2	1.39	1.01
2:M:52:PHE:CG	2:M:68:PHE:HB2	1.96	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1389:LEU:O	3:N:1390:LEU:HB2	1.60	1.01
3:N:397:LYS:HG2	3:N:448:GLU:HB2	1.42	1.01
2:M:1004:LYS:HD2	3:N:744:GLN:NE2	1.73	1.01
1:F:188:GLN:H	1:F:188:GLN:NE2	1.59	1.01
2:M:979:THR:HG23	2:M:981:GLU:H	1.25	1.01
3:D:804:LEU:HD13	3:D:830:ALA:O	1.60	1.01
2:M:455:LEU:HD13	2:M:459:ALA:HB3	1.41	1.01
2:C:544:THR:O	2:C:547:ILE:HD12	1.61	1.01
1:B:86:VAL:HG12	1:B:124:ASN:HB2	1.42	1.01
2:C:603:VAL:HA	2:C:613:VAL:HG12	1.38	1.01
2:C:678:PRO:HG2	3:D:947:ILE:HD11	1.37	1.00
2:M:861:LEU:HG	2:M:862:PRO:HD2	1.43	1.00
1:B:212:ASN:O	1:B:215:VAL:HG22	1.61	1.00
2:C:305:PRO:HA	2:C:308:ARG:HB2	1.42	1.00
2:C:794:PRO:HG2	2:C:1025:ALA:O	1.60	1.00
3:D:137:PRO:HD3	3:D:453:ASP:O	1.61	1.00
2:M:395:LYS:HE2	2:M:403:SER:HB2	1.42	1.00
2:C:958:THR:HG23	2:C:961:GLU:HG3	1.38	1.00
1:A:156:HIS:HD2	1:A:157:GLY:H	1.07	1.00
1:B:34:VAL:HG22	1:B:181:VAL:HG21	1.40	1.00
2:H:1024:LYS:HG3	2:H:1025:ALA:H	1.26	1.00
3:N:771:SER:HB3	3:N:778:LEU:HD13	1.44	1.00
2:C:950:LEU:HB3	2:C:952:LEU:HD23	1.43	1.00
3:N:984:THR:HG22	3:N:987:GLU:CG	1.90	1.00
3:D:764:LEU:HD12	3:D:765:SER:N	1.76	1.00
2:H:1049:LEU:HD23	3:I:1472:ILE:HD12	1.42	1.00
2:M:73:LEU:HD23	2:M:94:LEU:HB2	1.43	1.00
3:I:1112:CYS:SG	3:I:1195:GLN:HG2	2.02	1.00
1:K:44:LEU:HD23	1:K:48:ILE:HD11	1.43	1.00
2:C:565:GLN:HE21	2:C:842:ARG:HG2	1.23	1.00
2:M:290:LEU:HB3	2:M:302:VAL:HG11	1.43	1.00
3:I:908:LYS:HB2	3:I:1027:GLY:HA3	1.43	1.00
4:J:54:LEU:HG	4:J:58:PRO:HG2	1.03	1.00
2:M:212:GLY:HA3	2:M:218:VAL:HG21	1.44	1.00
3:N:996:TRP:HA	3:N:999:THR:HG22	1.44	1.00
2:H:383:ARG:HH11	2:H:383:ARG:HB2	1.23	1.00
2:C:368:THR:HB	2:C:369:PRO:CD	1.92	0.99
3:D:116:LEU:HD22	3:D:118:LEU:HG	1.39	0.99
2:H:368:THR:HB	2:H:369:PRO:HD3	1.44	0.99
2:M:367:LEU:HB3	2:M:371:LYS:HE2	1.41	0.99
3:D:947:ILE:O	3:D:947:ILE:HD12	1.60	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:28:LYS:HD2	3:I:29:PRO:HD2	1.42	0.99
3:D:52:PRO:HB2	3:D:80:VAL:HG11	1.39	0.99
3:D:834:THR:HB	3:D:838:ARG:HD3	1.44	0.99
3:I:1147:ARG:HB3	3:I:1188:VAL:HG21	1.45	0.99
3:I:1018:ASN:O	3:I:1022:VAL:HG23	1.62	0.99
2:M:157:ARG:CZ	2:M:314:THR:HB	1.91	0.99
3:N:50:PHE:CD2	3:N:522:PRO:HD3	1.98	0.99
2:M:182:VAL:HG12	2:M:193:LEU:HD22	1.44	0.99
3:N:28:LYS:HD2	3:N:29:PRO:HD2	1.41	0.99
2:M:212:GLY:CA	2:M:218:VAL:HG21	1.92	0.99
2:M:312:ALA:HB1	2:M:318:PRO:HG2	1.44	0.99
3:D:1468:LEU:HD22	3:D:1470:ARG:HB2	1.41	0.99
2:H:691:SER:HB2	2:H:858:MET:SD	2.03	0.99
2:H:12:VAL:HG22	2:H:13:ILE:HG23	1.43	0.98
3:N:809:PRO:HB2	3:N:812:ALA:HB2	1.44	0.98
3:N:357:GLU:HG3	3:N:441:ARG:HG2	0.99	0.98
4:E:18:ARG:HH21	4:E:18:ARG:HB2	1.23	0.98
2:H:565:GLN:NE2	2:H:842:ARG:HG2	1.78	0.98
3:N:366:LYS:HE2	3:N:369:ALA:HB2	1.45	0.98
3:D:137:PRO:HG3	3:D:453:ASP:N	1.79	0.98
3:N:128:TYR:HE2	3:N:458:ALA:HA	1.27	0.98
2:M:267:TYR:HB2	2:M:272:ALA:CB	1.93	0.98
2:C:1065:ALA:HB1	2:C:1077:PRO:HG2	1.41	0.98
3:N:119:SER:CB	3:N:123:LEU:HB2	1.93	0.98
3:N:813:LEU:O	3:N:817:GLU:HB2	1.62	0.98
1:K:218:LEU:HD23	1:L:222:LEU:HD21	1.45	0.98
2:H:312:ALA:HB1	2:H:318:PRO:HG2	1.45	0.98
4:O:54:LEU:HG	4:O:58:PRO:CG	1.94	0.98
2:H:1004:LYS:HD2	3:I:744:GLN:NE2	1.79	0.98
3:I:134:VAL:HG21	3:I:460:ALA:HB1	1.46	0.98
3:D:637:LEU:HD21	3:D:642:CYS:HA	1.41	0.98
1:L:74:ASP:HB2	3:N:872:ARG:HH22	1.28	0.98
3:N:95:LEU:HD21	3:N:574:LEU:HD11	1.42	0.97
3:I:1025:GLN:HA	3:I:1025:GLN:NE2	1.73	0.97
2:C:1086:ARG:HB2	2:C:1112:PHE:CE2	2.00	0.97
3:D:1205:TYR:CD2	3:D:1215:VAL:HG21	2.00	0.97
3:D:207:PHE:O	3:D:390:PRO:HA	1.64	0.97
3:N:864:VAL:HG12	3:N:865:THR:H	1.28	0.97
3:D:764:LEU:HD12	3:D:765:SER:H	1.26	0.97
3:I:799:LYS:O	3:I:800:LYS:HD3	1.63	0.97
3:I:1352:ILE:HG21	3:I:1368:ILE:HD12	1.45	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:267:TYR:HB2	2:M:272:ALA:HB1	1.47	0.97
3:N:357:GLU:HG3	3:N:441:ARG:CG	1.94	0.97
3:I:1106:VAL:HG12	3:I:1107:VAL:H	1.28	0.97
2:M:606:VAL:HG23	2:M:645:VAL:HG13	1.45	0.97
2:C:224:GLU:O	2:C:228:ALA:HB3	1.64	0.97
2:C:1061:GLU:OE2	3:D:84:ILE:HD12	1.64	0.97
3:I:1320:GLU:HG2	3:I:1339:LYS:HZ1	1.27	0.97
2:C:836:GLY:HA3	2:C:1001:VAL:HG21	1.47	0.97
2:M:885:ILE:H	2:M:885:ILE:HD12	1.30	0.97
3:D:209:ARG:HB2	3:D:389:GLU:HB3	1.46	0.96
2:M:1097:LEU:HD11	3:N:1451:ALA:CB	1.95	0.96
2:M:418:LEU:H	2:M:418:LEU:HD12	1.27	0.96
3:D:513:ILE:O	3:D:513:ILE:HD12	1.65	0.96
1:A:58:ILE:HD13	1:A:140:MET:HB3	1.43	0.96
3:I:906:GLN:HB3	3:I:911:LEU:HD11	1.48	0.96
3:I:87:ARG:HB3	3:I:523:ASP:HB2	1.45	0.96
2:C:1105:LYS:HD2	2:C:1107:ASN:HD22	1.27	0.96
2:H:395:LYS:HE2	2:H:403:SER:HB2	1.44	0.96
2:H:272:ALA:HA	2:H:464:LEU:HD21	1.47	0.96
3:D:388:HIS:O	3:D:390:PRO:HD3	1.66	0.96
2:M:98:LEU:HD11	2:M:113:VAL:HG22	1.45	0.96
3:N:806:PHE:CE1	3:N:813:LEU:HB3	1.99	0.96
3:D:465:LEU:HD21	3:D:509:PRO:HB2	1.44	0.96
2:H:1018:GLN:HE21	2:H:1018:GLN:HA	1.31	0.96
3:D:1263:PHE:CE2	3:D:1371:VAL:HG11	2.01	0.96
3:D:771:SER:HB2	3:D:778:LEU:HD13	1.47	0.95
2:M:64:LEU:HD22	2:M:359:MET:HG3	1.45	0.95
1:G:86:VAL:HG12	1:G:124:ASN:HB2	1.45	0.95
1:B:228:PRO:O	1:B:229:GLN:HG3	1.66	0.95
3:I:1161:GLU:OE2	3:I:1164:ARG:HD2	1.66	0.95
2:C:988:VAL:HG11	3:D:949:ILE:O	1.64	0.95
3:D:179:VAL:HG13	3:D:183:GLU:HB3	1.44	0.95
2:C:572:ILE:HD12	2:C:573:ARG:H	1.32	0.95
2:H:654:LEU:HD23	2:H:654:LEU:H	1.28	0.95
2:H:376:ARG:HH12	2:H:380:ALA:HB2	1.30	0.95
1:K:184:THR:OG1	1:K:192:LEU:HB2	1.67	0.95
3:D:890:VAL:HG11	3:D:922:LEU:HD12	1.46	0.95
3:D:809:PRO:HB2	3:D:812:ALA:CB	1.96	0.95
3:N:804:LEU:HD22	3:N:831:GLY:HA3	1.45	0.95
3:D:351:MET:HG3	3:D:370:ALA:HB2	1.45	0.95
2:M:674:VAL:HG23	2:M:869:VAL:O	1.66	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:860:LEU:HD23	3:N:877:PRO:HB2	1.49	0.95
2:C:195:LEU:O	2:C:199:VAL:HG23	1.64	0.95
2:C:408:ARG:NH2	2:C:455:LEU:HD11	1.81	0.95
3:D:850:LEU:HD12	3:D:850:LEU:H	1.29	0.95
3:I:109:PRO:HB3	3:I:494:LYS:NZ	1.81	0.95
3:N:1263:PHE:HE2	3:N:1371:VAL:HG11	1.32	0.95
2:H:332:ARG:HG3	2:H:465:GLY:HA3	1.48	0.95
1:F:42:ARG:NH1	2:H:857:ASP:HB3	1.82	0.95
3:N:137:PRO:HD3	3:N:453:ASP:O	1.66	0.95
2:M:836:GLY:HA3	2:M:1001:VAL:HG21	1.49	0.95
3:D:1305:LEU:HD12	3:D:1311:LEU:HD22	1.49	0.95
2:C:878:SER:CA	3:D:1034:GLN:HE22	1.79	0.94
3:D:1205:TYR:HD2	3:D:1215:VAL:HG21	1.31	0.94
1:G:87:VAL:HG21	1:G:144:VAL:HG11	1.47	0.94
2:H:603:VAL:HA	2:H:613:VAL:HG12	1.49	0.94
3:I:101:HIS:HD1	3:I:103:TRP:HB2	1.32	0.94
3:D:804:LEU:HD23	3:D:804:LEU:H	1.26	0.94
2:M:113:VAL:O	2:M:115:LEU:HD23	1.67	0.94
1:B:87:VAL:HG21	1:B:144:VAL:HG11	1.47	0.94
2:H:455:LEU:HD13	2:H:459:ALA:HB3	1.47	0.94
7:Z:115:THR:OG1	7:Z:116:PRO:HD3	1.66	0.94
2:C:332:ARG:HG3	2:C:465:GLY:HA3	1.49	0.94
2:H:836:GLY:HA3	2:H:1001:VAL:HG21	1.49	0.94
2:C:878:SER:HA	3:D:1034:GLN:NE2	1.80	0.94
3:I:800:LYS:HD2	3:I:801:GLY:H	1.29	0.94
3:D:877:PRO:O	3:D:880:ILE:HG22	1.68	0.94
2:H:21:ILE:H	2:H:21:ILE:HD12	1.32	0.94
3:D:1093:TYR:CZ	3:D:1097:LYS:CE	2.50	0.94
2:C:1085:PHE:CE2	3:D:1468:LEU:HG	2.02	0.94
3:D:521:PRO:HB2	3:D:524:LEU:HD13	1.47	0.94
2:M:1097:LEU:HD11	3:N:1451:ALA:HB2	1.48	0.94
2:H:498:GLN:HE21	2:H:498:GLN:HA	1.29	0.94
2:H:265:ARG:HB3	2:H:267:TYR:CE2	2.02	0.94
2:M:332:ARG:HD2	2:M:464:LEU:O	1.67	0.94
1:A:25:LEU:HD23	1:A:28:LEU:HD11	1.47	0.94
3:D:810:GLU:O	3:D:813:LEU:HG	1.67	0.94
3:I:813:LEU:HD12	3:I:814:ALA:N	1.82	0.94
2:C:56:GLU:HG2	2:C:356:ARG:HG3	1.49	0.94
3:I:1035:ILE:HA	3:I:1038:LEU:HD12	1.50	0.94
3:I:1257:PRO:HA	3:I:1260:ILE:HD12	1.46	0.94
3:N:137:PRO:HG3	3:N:453:ASP:N	1.82	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:504:GLU:OE2	2:H:504:GLU:HA	1.65	0.94
2:H:432:ARG:HH22	3:I:1047:LYS:HD3	1.31	0.94
3:D:813:LEU:O	3:D:817:GLU:HB2	1.68	0.94
3:D:1099:VAL:O	3:D:1103:HIS:HB3	1.68	0.94
3:N:984:THR:HG22	3:N:987:GLU:HG2	0.95	0.94
2:C:21:ILE:HD12	2:C:21:ILE:H	1.32	0.94
2:C:1074:GLU:HG2	2:C:1075:ASP:H	1.32	0.94
2:H:184:MET:N	2:H:193:LEU:HD11	1.83	0.93
3:I:507:ASN:H	3:I:507:ASN:HD22	0.94	0.93
3:D:119:SER:CB	3:D:123:LEU:HB2	1.99	0.93
3:D:29:PRO:HG3	3:D:549:ASN:HD21	1.31	0.93
2:M:987:ILE:HG23	3:N:948:THR:HG21	1.47	0.93
3:N:795:VAL:HG23	3:N:879:ARG:HH12	1.31	0.93
3:I:185:VAL:HG22	3:I:189:GLN:HE22	1.31	0.93
1:A:189:ARG:HG3	1:A:191:ASP:OD1	1.68	0.93
2:H:196:LEU:O	2:H:199:VAL:HB	1.68	0.93
3:D:1106:VAL:HG12	3:D:1107:VAL:H	1.34	0.93
3:D:101:HIS:HD1	3:D:103:TRP:HB2	1.34	0.93
2:M:571:LEU:HD21	2:M:700:TYR:HA	1.48	0.93
3:I:996:TRP:O	3:I:1000:THR:HG22	1.69	0.93
2:M:253:ALA:O	2:M:257:VAL:HG23	1.66	0.93
2:H:603:VAL:HG23	2:H:647:GLN:H	1.33	0.93
1:B:185:ARG:CZ	3:D:692:GLU:HG2	1.99	0.93
2:C:267:TYR:HB2	2:C:272:ALA:CB	1.99	0.93
3:N:996:TRP:CD2	3:N:1056:PRO:HG2	2.03	0.93
3:N:1285:GLU:O	3:N:1286:THR:HG22	1.68	0.93
2:H:292:ARG:HG2	2:H:299:LYS:HE2	1.47	0.93
1:B:74:ASP:HB2	3:D:872:ARG:NH2	1.82	0.93
2:C:272:ALA:HA	2:C:464:LEU:HD22	1.50	0.93
2:H:657:ASP:HB3	2:H:661:SER:O	1.68	0.93
2:H:134:ARG:HH21	2:H:393:GLN:HA	1.34	0.93
3:D:347:VAL:HG13	3:D:351:MET:HB3	1.51	0.93
3:D:108:VAL:HB	3:D:109:PRO:HD3	1.50	0.93
3:I:795:VAL:HG23	3:I:879:ARG:HH12	1.34	0.93
2:M:329:GLY:HA3	2:M:489:THR:HG23	1.50	0.93
3:I:1459:LEU:CD2	3:I:1470:ARG:HH21	1.82	0.93
2:M:495:THR:HG21	2:M:517:ARG:HH21	1.34	0.93
3:D:899:LEU:HD12	3:D:900:ILE:HG22	1.51	0.93
3:I:17:LYS:HG2	3:I:21:TRP:HE1	1.29	0.93
2:H:182:VAL:HG12	2:H:193:LEU:HD22	1.48	0.92
1:A:42:ARG:NH1	1:B:34:VAL:HB	1.83	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:631:ILE:HD12	3:N:743:ASP:O	1.69	0.92
7:Y:13:GLU:HG2	7:Y:17:GLN:HE21	1.34	0.92
3:D:1095:THR:O	3:D:1099:VAL:HG23	1.69	0.92
2:C:140:ILE:HD11	2:C:412:ALA:HA	1.51	0.92
3:I:1206:GLY:O	3:I:1215:VAL:HG23	1.69	0.92
2:H:1105:LYS:HD2	2:H:1107:ASN:HD22	1.34	0.92
1:L:212:ASN:O	1:L:215:VAL:HG22	1.68	0.92
4:E:19:LEU:O	4:E:23:VAL:HG23	1.67	0.92
2:C:358:ARG:HH22	2:C:374:ASN:HB3	1.33	0.92
1:G:59:GLU:HB2	1:G:137:ARG:HH12	1.34	0.92
2:H:165:LEU:HB3	2:H:265:ARG:NH1	1.84	0.92
2:H:218:VAL:HG22	2:H:221:LEU:HD21	1.52	0.92
3:D:1123:PHE:CE2	3:D:1184:GLN:HA	2.02	0.92
3:N:704:ARG:HB2	3:N:736:PHE:HB3	1.49	0.92
3:I:996:TRP:CE2	3:I:1056:PRO:HG2	2.05	0.92
3:D:957:PRO:HG2	3:D:1007:VAL:HG22	1.51	0.92
3:I:131:LYS:HE3	3:I:456:MET:SD	2.09	0.92
2:C:137:VAL:O	2:C:391:LEU:HD21	1.70	0.92
3:D:50:PHE:CD2	3:D:522:PRO:HD3	2.04	0.92
3:I:1135:ARG:HD2	3:I:1139:ASP:HB2	1.51	0.92
2:C:689:VAL:HB	2:C:870:ILE:HG12	1.50	0.92
3:N:179:VAL:HG21	3:N:189:GLN:HE22	1.34	0.92
2:H:726:ILE:HD13	2:H:734:LEU:HD21	1.51	0.92
1:B:74:ASP:CB	3:D:872:ARG:HH22	1.82	0.91
2:M:456:ALA:HB3	2:M:459:ALA:HB2	1.52	0.91
2:H:347:GLY:HA3	2:H:378:LEU:HD12	1.52	0.91
2:H:378:LEU:O	2:H:382:ILE:HD13	1.69	0.91
3:D:812:ALA:O	3:D:816:HIS:HB2	1.69	0.91
3:N:1262:LEU:HB3	3:N:1352:ILE:HD11	1.52	0.91
2:M:939:ARG:HA	2:M:939:ARG:HE	1.30	0.91
2:H:676:ILE:CG2	2:H:988:VAL:HG13	1.99	0.91
2:C:165:LEU:HB3	2:C:265:ARG:NH2	1.85	0.91
3:N:483:HIS:HB2	3:N:484:PRO:HD3	1.53	0.91
1:B:206:THR:HG23	1:B:208:LEU:H	1.33	0.91
2:M:1056:LYS:HD3	3:N:623:VAL:HG13	1.51	0.91
3:I:205:TYR:O	3:I:206:ARG:HG2	1.70	0.91
2:C:697:ARG:HD2	2:C:699:PHE:CE1	2.06	0.91
3:I:1465:ASN:HA	3:I:1468:LEU:HD12	1.51	0.91
2:M:182:VAL:CG1	2:M:193:LEU:HD22	2.01	0.91
3:D:55:ASP:HB2	3:D:82:LYS:HD3	1.51	0.91
2:H:16:PRO:O	2:H:18:LEU:HD12	1.71	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:154:GLU:OE2	3:D:840:LYS:HE2	1.70	0.91
1:F:80:LEU:O	1:F:83:LYS:HG2	1.70	0.91
1:L:62:LEU:HD12	1:L:63:HIS:N	1.84	0.91
3:N:162:ARG:HG3	3:N:452:ILE:HD12	1.52	0.91
2:C:431:HIS:H	2:C:434:HIS:CE1	1.88	0.91
2:H:1004:LYS:HD2	3:I:744:GLN:HE22	1.34	0.91
3:D:1112:CYS:SG	3:D:1195:GLN:HG2	2.11	0.91
2:C:1014:SER:HB3	2:C:1017:THR:O	1.70	0.91
4:J:51:LEU:HG	4:J:51:LEU:O	1.70	0.91
2:C:432:ARG:HH22	3:D:1047:LYS:HD3	1.35	0.90
3:N:761:ILE:HD12	4:O:20:THR:HG23	1.52	0.90
3:D:762:GLN:HE21	4:E:20:THR:HG21	1.36	0.90
2:C:344:PHE:HE2	2:C:378:LEU:HD21	1.35	0.90
3:D:1109:GLU:HG2	3:D:1201:CYS:HA	1.53	0.90
2:C:110:GLU:HG3	2:C:369:PRO:HB3	1.51	0.90
3:I:566:ILE:HD11	2:M:180:GLY:HA2	1.52	0.90
4:E:31:LEU:HD12	4:E:32:ARG:N	1.86	0.90
3:N:387:LEU:H	3:N:387:LEU:HD12	1.34	0.90
1:K:88:ARG:HH12	1:K:90:LEU:HD11	1.36	0.90
2:M:290:LEU:CB	2:M:302:VAL:HG11	2.02	0.90
3:I:991:GLN:OE1	7:Y:111:ASN:HA	1.71	0.90
3:D:806:PHE:CE1	3:D:813:LEU:HB3	2.06	0.90
2:M:281:LEU:HG	2:M:282:GLY:N	1.83	0.90
2:C:666:LEU:HG	2:C:668:LEU:HD11	1.54	0.90
3:I:643:GLY:HA3	3:I:727:GLN:HB2	1.53	0.90
2:M:1065:ALA:HB1	2:M:1077:PRO:HG2	1.53	0.90
3:I:153:LEU:HD13	3:I:158:TYR:HB2	1.51	0.90
3:D:780:LYS:NZ	7:X:38:GLU:OE1	2.05	0.90
2:M:1046:ALA:HA	3:N:1472:ILE:HD11	1.54	0.90
3:D:705:ALA:HB3	3:D:706:PRO:HD3	1.52	0.90
3:I:737:ASN:ND2	7:Y:40:SER:HB3	1.86	0.90
2:C:1037:VAL:HG13	2:C:1049:LEU:HD11	1.54	0.90
4:E:59:ASN:OD1	4:E:61:VAL:HG22	1.70	0.90
3:N:970:LYS:HA	3:N:973:GLN:HE21	1.34	0.90
2:M:98:LEU:HD21	2:M:113:VAL:HG21	1.52	0.90
3:D:608:SER:HB3	3:D:1443:THR:OG1	1.72	0.90
2:H:98:LEU:HD12	2:H:98:LEU:N	1.85	0.90
1:F:206:THR:HG22	1:F:209:GLU:HG3	1.53	0.90
2:C:272:ALA:HA	2:C:464:LEU:CD2	2.01	0.90
7:X:99:ARG:HG3	7:X:99:ARG:HH11	1.36	0.90
2:M:239:PHE:CZ	2:M:252:LYS:HA	2.07	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:122:GLU:O	3:I:126:VAL:HG23	1.72	0.90
3:N:1093:TYR:O	3:N:1096:ARG:HB3	1.70	0.90
2:C:1084:SER:HB3	3:D:617:ASN:HD21	1.37	0.90
3:D:643:GLY:O	3:D:726:ILE:HG23	1.72	0.90
2:M:862:PRO:HB3	2:M:929:ARG:HH22	1.37	0.90
1:A:158:ILE:HD12	1:A:158:ILE:H	1.34	0.90
3:D:639:LEU:HD13	3:D:766:ALA:HB2	1.52	0.90
2:H:724:ARG:HG3	2:H:740:GLU:HA	1.53	0.90
1:L:41:ARG:HG3	1:L:177:VAL:HG21	1.53	0.90
3:N:1344:VAL:O	3:N:1348:LEU:HD13	1.72	0.89
3:N:179:VAL:HG13	3:N:183:GLU:HB3	1.53	0.89
1:B:20:TYR:HD2	1:B:21:GLY:H	1.18	0.89
3:N:906:GLN:HB3	3:N:911:LEU:HD11	1.51	0.89
3:N:1275:SER:HA	3:N:1303:TYR:OH	1.70	0.89
3:D:1128:VAL:O	3:D:1129:THR:HG22	1.70	0.89
2:H:146:VAL:HG22	2:H:162:ILE:HG12	1.53	0.89
2:H:267:TYR:HB2	2:H:272:ALA:CB	2.02	0.89
3:D:134:VAL:HG21	3:D:460:ALA:HB1	1.54	0.89
3:N:119:SER:HB2	3:N:123:LEU:H	1.35	0.89
3:D:800:LYS:HB2	3:D:829:VAL:HG13	1.52	0.89
3:I:1031:ASN:HB3	3:I:1034:GLN:OE1	1.71	0.89
1:A:220:GLU:O	1:A:223:THR:HG22	1.73	0.89
2:M:429:ASP:OD1	3:N:1079:LYS:HE2	1.73	0.89
3:N:109:PRO:HB3	3:N:494:LYS:HZ3	1.31	0.89
3:I:566:ILE:HD12	3:I:566:ILE:N	1.87	0.89
2:H:191:PHE:CZ	2:H:196:LEU:HB2	2.07	0.89
3:I:800:LYS:CD	3:I:801:GLY:H	1.85	0.89
3:N:143:ASN:HA	3:N:161:LEU:CD2	2.02	0.89
3:D:860:LEU:HD22	3:D:878:GLY:HA2	1.54	0.89
2:C:182:VAL:HG12	2:C:193:LEU:HD22	1.54	0.89
2:H:328:LEU:HD13	2:H:433:THR:HB	1.54	0.89
4:E:70:THR:HB	4:E:72:ARG:HD3	1.53	0.89
3:D:1412:LYS:O	3:D:1414:PRO:HD3	1.71	0.89
3:N:877:PRO:O	3:N:880:ILE:HG22	1.72	0.89
3:D:153:LEU:HD13	3:D:158:TYR:HB2	1.54	0.89
2:C:697:ARG:HD2	2:C:699:PHE:CD1	2.08	0.89
3:D:28:LYS:HD2	3:D:29:PRO:HD2	1.55	0.89
3:N:1102:THR:HA	3:N:1105:ILE:HD13	1.53	0.89
3:D:737:ASN:OD1	7:X:40:SER:HB3	1.73	0.89
3:I:850:LEU:H	3:I:850:LEU:HD12	1.38	0.89
3:I:1071:PHE:O	3:I:1074:SER:HB3	1.73	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:1046:ALA:HB1	3:N:1471:LEU:CD1	2.00	0.88
3:N:168:THR:O	3:N:170:PRO:HD3	1.73	0.88
2:C:958:THR:HG23	2:C:961:GLU:CG	2.02	0.88
1:A:156:HIS:CD2	1:A:157:GLY:H	1.91	0.88
2:H:1030:GLN:NE2	3:I:628:ARG:HD3	1.87	0.88
2:H:290:LEU:CB	2:H:302:VAL:HG11	2.03	0.88
2:H:950:LEU:HB3	2:H:952:LEU:HD23	1.55	0.88
2:H:442:GLU:HG2	2:H:454:SER:HB2	1.54	0.88
3:I:1211:MET:HG2	3:I:1212:ALA:N	1.84	0.88
1:B:123:MET:C	1:B:125:PRO:HD3	1.94	0.88
3:I:501:ALA:CB	3:I:1452:ILE:HG22	2.04	0.88
2:C:943:VAL:HG23	2:C:985:GLY:H	1.38	0.88
2:H:184:MET:HB2	2:H:193:LEU:HG	1.53	0.88
3:N:795:VAL:CG2	3:N:879:ARG:HH12	1.86	0.88
3:I:119:SER:CB	3:I:123:LEU:HB2	2.04	0.88
3:I:813:LEU:O	3:I:817:GLU:HB2	1.73	0.88
3:I:131:LYS:HD2	3:I:568:ARG:HG2	1.56	0.88
3:I:704:ARG:HB2	3:I:736:PHE:HB3	1.53	0.88
2:M:516:ARG:CZ	3:N:1068:LEU:HD22	2.03	0.88
2:H:418:LEU:HD12	2:H:418:LEU:H	1.37	0.88
4:J:32:ARG:HB2	4:J:32:ARG:NH1	1.87	0.88
3:D:908:LYS:HB2	3:D:1027:GLY:HA3	1.54	0.88
2:M:1004:LYS:HD2	3:N:744:GLN:HE21	1.35	0.88
2:M:165:LEU:HB3	2:M:265:ARG:NH1	1.88	0.88
3:D:128:TYR:HE2	3:D:458:ALA:HA	1.37	0.88
3:D:1493:LYS:O	3:D:1497:GLU:HG2	1.72	0.88
3:N:984:THR:HG23	3:N:987:GLU:H	1.39	0.88
3:N:843:PHE:CE1	3:N:864:VAL:HG11	2.08	0.88
3:I:137:PRO:CD	3:I:453:ASP:O	2.21	0.88
1:L:59:GLU:HB2	1:L:137:ARG:HH12	1.35	0.88
3:D:902:LEU:H	3:D:902:LEU:HD23	1.37	0.88
3:N:96:ALA:HB3	3:N:554:LEU:HD23	1.54	0.88
3:D:603:LEU:O	3:D:606:ILE:HG22	1.73	0.88
3:I:507:ASN:N	3:I:507:ASN:HD22	1.72	0.88
3:I:1459:LEU:HD22	3:I:1470:ARG:HH21	1.39	0.88
2:H:1074:GLU:HG2	2:H:1075:ASP:H	1.38	0.88
3:N:864:VAL:HG12	3:N:865:THR:N	1.88	0.88
2:H:1003:ASP:OD2	2:H:1004:LYS:HE2	1.73	0.88
2:M:767:PRO:HB3	2:M:772:ARG:NH2	1.87	0.88
1:A:86:VAL:HG12	1:A:124:ASN:HB2	1.56	0.88
3:D:1263:PHE:HE2	3:D:1371:VAL:HG11	1.34	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:119:SER:HB2	3:I:123:LEU:H	1.38	0.87
2:M:958:THR:HG23	2:M:961:GLU:HG3	1.54	0.87
3:I:1425:THR:O	3:I:1429:LEU:HD13	1.74	0.87
2:M:39:ARG:HD2	2:M:39:ARG:H	1.37	0.87
2:H:200:LEU:HD23	2:H:298:PHE:HB2	1.53	0.87
3:N:481:MET:HE2	3:N:493:ARG:HA	1.55	0.87
2:M:136:ILE:HG21	2:M:336:VAL:HG13	1.53	0.87
2:M:676:ILE:HG22	2:M:988:VAL:O	1.74	0.87
3:I:644:LEU:HD12	3:I:645:PRO:HD3	1.55	0.87
1:F:42:ARG:HD3	1:G:35:THR:HG23	1.56	0.87
2:H:224:GLU:OE1	2:H:227:PHE:HD1	1.56	0.87
2:H:300:ASP:OD2	2:H:303:PHE:HB2	1.74	0.87
3:N:181:ASP:HB3	3:N:441:ARG:HD3	1.57	0.87
2:M:224:GLU:O	2:M:228:ALA:HB3	1.73	0.87
3:I:1364:HIS:CE1	3:I:1366:LYS:HG3	2.09	0.87
2:H:101:ILE:HG23	2:H:107:LEU:CD2	2.04	0.87
3:D:411:THR:HG23	3:D:436:GLU:HA	1.56	0.87
2:H:12:VAL:HG22	2:H:13:ILE:CG2	2.05	0.87
1:L:86:VAL:HG12	1:L:124:ASN:HB2	1.56	0.87
4:E:36:LYS:NZ	4:E:36:LYS:HA	1.89	0.87
2:C:148:PHE:CE1	2:C:309:TYR:HD2	1.93	0.87
2:C:1004:LYS:O	3:D:629:SER:HA	1.74	0.87
3:D:179:VAL:HG21	3:D:189:GLN:HE22	1.39	0.87
2:H:98:LEU:HD12	2:H:98:LEU:H	1.40	0.87
3:I:1109:GLU:HG2	3:I:1201:CYS:HA	1.57	0.87
3:I:715:ALA:O	3:I:764:LEU:HD12	1.74	0.87
3:D:584:ASN:ND2	3:D:590:PRO:HD2	1.90	0.87
3:N:356:PRO:HB3	3:N:441:ARG:HA	1.54	0.87
2:M:572:ILE:HD11	2:M:701:THR:OG1	1.75	0.87
3:D:18:ILE:HG23	3:D:518:PRO:HG3	1.56	0.87
3:I:650:LEU:HD13	3:I:688:TRP:HZ3	1.40	0.87
3:N:972:LEU:HG	3:N:976:GLN:HE21	1.38	0.87
2:C:290:LEU:CB	2:C:302:VAL:HG11	2.02	0.87
3:N:860:LEU:O	3:N:877:PRO:HD2	1.73	0.87
3:I:1140:ILE:HG21	3:I:1175:ILE:HD11	1.56	0.87
3:N:116:LEU:HD22	3:N:118:LEU:HG	1.57	0.87
2:H:157:ARG:HD3	2:H:314:THR:CG2	2.05	0.87
2:M:675:ALA:HA	2:M:989:VAL:HG12	1.57	0.87
3:D:571:LYS:O	3:D:574:LEU:HB3	1.74	0.87
2:M:1041:GLU:OE1	3:N:1462:LEU:HD12	1.74	0.86
3:N:204:LEU:O	3:N:393:ILE:HG23	1.75	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:141:ILE:HG22	3:D:162:ARG:NH1	1.89	0.86
2:M:260:LEU:HB2	2:M:291:ALA:HB1	1.55	0.86
3:I:101:HIS:ND1	3:I:103:TRP:HB2	1.90	0.86
7:X:120:SER:HB2	7:X:123:SER:HB2	1.57	0.86
2:H:41:ASN:O	2:H:46:ALA:HB2	1.75	0.86
3:N:141:ILE:HG22	3:N:162:ARG:NH1	1.90	0.86
3:N:1205:TYR:CD2	3:N:1215:VAL:HG21	2.09	0.86
3:I:1098:LEU:HD21	3:I:1229:ILE:HB	1.57	0.86
1:B:124:ASN:OD1	1:B:127:LEU:HB2	1.75	0.86
3:I:1047:LYS:HB3	3:I:1048:PRO:CD	2.05	0.86
3:D:160:GLU:OE1	3:D:161:LEU:HD12	1.76	0.86
3:D:127:LEU:HD12	3:D:128:TYR:N	1.91	0.86
1:K:88:ARG:NH1	1:K:90:LEU:HD11	1.90	0.86
2:M:41:ASN:O	2:M:46:ALA:HB2	1.75	0.86
3:D:1329:ALA:C	3:D:1330:ILE:HD12	1.95	0.86
3:I:800:LYS:HD2	3:I:801:GLY:N	1.91	0.86
3:D:520:LEU:HD23	3:D:525:ARG:HD2	1.57	0.86
3:N:1205:TYR:HD2	3:N:1215:VAL:HG21	1.38	0.86
3:N:1286:THR:HG23	3:N:1286:THR:O	1.76	0.86
3:N:1066:THR:HG22	3:N:1069:GLU:HB2	1.57	0.86
3:D:554:LEU:O	3:D:558:LEU:HG	1.75	0.86
3:I:1305:LEU:HD12	3:I:1311:LEU:HD22	1.55	0.86
3:I:563:PRO:HA	2:M:223:ASP:HB2	1.55	0.86
3:N:1310:ARG:HB2	3:N:1327:ARG:HD3	1.55	0.86
3:D:397:LYS:HG2	3:D:448:GLU:HB2	1.55	0.86
2:M:110:GLU:HG3	2:M:369:PRO:CB	2.05	0.86
2:H:1082:PRO:HG2	3:I:1469:GLY:HA3	1.55	0.86
3:D:166:GLN:HE22	3:D:394:LEU:HB2	1.39	0.86
7:Y:102:VAL:HG11	7:Y:119:ILE:HD11	1.55	0.86
1:A:91:ASN:OD1	1:A:92:PRO:HD2	1.74	0.86
1:L:185:ARG:NH1	3:N:689:ASP:HA	1.91	0.86
3:D:1388:ARG:O	3:D:1391:GLU:HG3	1.76	0.86
3:I:654:LYS:HB3	3:I:655:PRO:HD3	1.56	0.85
3:I:656:PHE:HB3	3:I:694:VAL:HG11	1.57	0.85
3:D:25:GLU:HG3	3:D:92:HIS:O	1.75	0.85
4:E:37:ASN:N	4:E:37:ASN:HD22	1.72	0.85
3:I:1251:ASP:N	3:I:1269:LYS:HZ3	1.74	0.85
3:N:128:TYR:CE2	3:N:458:ALA:HA	2.10	0.85
2:M:151:ASP:HB2	2:M:157:ARG:O	1.76	0.85
2:H:1088:LEU:HD23	2:H:1092:LEU:HD12	1.55	0.85
3:N:1310:ARG:HB2	3:N:1327:ARG:CD	2.06	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:89:THR:HA	2:C:129:ILE:O	1.76	0.85
2:C:1046:ALA:HA	3:D:1472:ILE:HD11	1.58	0.85
3:I:1266:ARG:O	3:I:1268:PRO:HD3	1.74	0.85
2:M:857:ASP:HB2	2:M:978:ARG:HG2	1.57	0.85
2:H:516:ARG:NE	3:I:1068:LEU:HD22	1.91	0.85
2:C:194:VAL:HA	2:C:197:LEU:HD12	1.57	0.85
2:M:762:LYS:HD2	2:M:786:LYS:HB2	1.59	0.85
3:N:52:PRO:HG2	3:N:80:VAL:HG22	1.58	0.85
2:M:886:LEU:CD1	3:N:951:ILE:HD12	2.06	0.85
2:H:199:VAL:HG22	2:H:235:LEU:HD23	1.58	0.85
3:I:1106:VAL:HG12	3:I:1107:VAL:N	1.91	0.85
1:B:41:ARG:HG3	1:B:177:VAL:HG21	1.56	0.85
1:A:211:LEU:O	1:A:215:VAL:HG23	1.76	0.85
2:H:524:VAL:HG13	2:H:528:GLU:OE1	1.77	0.85
3:N:207:PHE:O	3:N:390:PRO:HA	1.75	0.85
2:M:689:VAL:HB	2:M:870:ILE:CG1	2.06	0.85
3:D:358:GLY:HA2	3:D:385:VAL:O	1.77	0.85
3:N:206:ARG:HA	3:N:206:ARG:NE	1.88	0.85
3:D:704:ARG:HB2	3:D:736:PHE:HB3	1.59	0.85
2:M:165:LEU:HG	2:M:166:PRO:HA	1.58	0.85
3:N:18:ILE:HG23	3:N:518:PRO:HG3	1.58	0.85
2:C:265:ARG:HB3	2:C:267:TYR:CZ	2.12	0.85
3:D:826:PRO:O	3:D:829:VAL:HG23	1.77	0.85
2:C:579:VAL:HG11	2:C:887:GLU:HG3	1.59	0.85
3:N:29:PRO:HG3	3:N:549:ASN:ND2	1.92	0.85
2:H:1097:LEU:HG	3:I:10:ILE:HG23	1.57	0.85
3:D:481:MET:CE	3:D:493:ARG:HA	2.07	0.85
3:N:890:VAL:HG11	3:N:922:LEU:CD1	2.06	0.85
2:H:502:PRO:HB2	2:H:509:ALA:HB3	1.58	0.85
7:Z:13:GLU:HG2	7:Z:17:GLN:HE21	1.41	0.85
2:H:185:LYS:HD2	2:H:190:LYS:HE2	1.58	0.85
2:C:260:LEU:HB2	2:C:291:ALA:HB1	1.57	0.85
2:M:597:ALA:HB2	2:M:655:LEU:HD21	1.57	0.85
2:C:798:GLY:C	2:C:799:ILE:HD13	1.97	0.85
2:H:250:ARG:HB3	2:H:250:ARG:NH1	1.91	0.85
4:O:54:LEU:O	4:O:54:LEU:HD23	1.77	0.85
2:H:89:THR:HA	2:H:129:ILE:O	1.77	0.85
3:N:1235:GLN:CB	7:Z:37:MET:HE3	2.05	0.84
2:C:101:ILE:HG23	2:C:107:LEU:HD22	1.57	0.84
3:I:133:ILE:O	3:I:152:LEU:HB2	1.76	0.84
2:M:627:ARG:O	2:M:638:ASP:HB3	1.76	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:722:ILE:O	2:C:722:ILE:HD13	1.77	0.84
3:D:89:ARG:O	3:D:521:PRO:HG3	1.77	0.84
2:H:858:MET:HG3	2:H:859:PRO:HD2	1.59	0.84
2:M:52:PHE:CD2	2:M:68:PHE:HB2	2.11	0.84
2:M:73:LEU:CD2	2:M:94:LEU:HB2	2.07	0.84
3:I:1062:ARG:HH11	3:I:1062:ARG:HG3	1.42	0.84
3:N:1122:LEU:HD11	3:N:1186:VAL:HG23	1.58	0.84
2:H:274:ARG:HG3	2:H:285:LEU:HB3	1.59	0.84
3:I:108:VAL:HB	3:I:109:PRO:CD	2.07	0.84
3:I:452:ILE:HD13	3:I:452:ILE:O	1.77	0.84
2:M:1104:GLU:HG3	3:N:3:LYS:HD3	1.59	0.84
3:I:199:LEU:HD23	3:I:200:ASP:O	1.77	0.84
2:H:979:THR:HG23	2:H:981:GLU:H	1.42	0.84
2:C:758:ARG:HB3	2:C:788:THR:O	1.77	0.84
1:F:79:ILE:HD12	1:F:80:LEU:N	1.91	0.84
2:M:965:GLU:HA	2:M:968:LEU:HD12	1.59	0.84
1:L:34:VAL:HG22	1:L:181:VAL:HG21	1.58	0.84
2:H:1065:ALA:HB1	2:H:1077:PRO:HG2	1.58	0.84
3:D:1093:TYR:CZ	3:D:1097:LYS:HE2	2.12	0.84
3:D:139:GLY:O	3:D:147:VAL:HB	1.77	0.84
2:H:260:LEU:CB	2:H:291:ALA:HB1	2.08	0.84
3:I:705:ALA:HB3	3:I:706:PRO:HD3	1.59	0.84
2:H:199:VAL:HG21	2:H:238:LEU:HD12	1.59	0.84
2:C:250:ARG:O	2:C:252:LYS:N	2.10	0.84
3:D:29:PRO:HG3	3:D:549:ASN:ND2	1.92	0.84
3:D:87:ARG:HB2	3:D:524:LEU:HD12	1.57	0.84
2:M:736:ASP:O	2:M:744:ARG:HG2	1.78	0.84
1:L:117:VAL:HB	1:L:120:VAL:HB	1.58	0.84
3:D:1352:ILE:HG21	3:D:1368:ILE:HD12	1.60	0.84
3:N:29:PRO:HG3	3:N:549:ASN:HD21	1.43	0.84
2:H:157:ARG:CZ	2:H:314:THR:HB	2.08	0.84
3:N:650:LEU:HD13	3:N:688:TRP:HZ3	1.41	0.84
2:M:1027:PHE:H	2:M:1027:PHE:HD2	1.23	0.84
2:H:839:LEU:N	2:H:839:LEU:HD23	1.92	0.84
1:G:182:GLU:OE2	1:G:194:LYS:HE3	1.76	0.84
2:H:288:ARG:HB2	2:H:288:ARG:NH1	1.92	0.84
3:D:119:SER:HB2	3:D:123:LEU:CB	2.07	0.84
2:M:101:ILE:HG23	2:M:107:LEU:HD22	1.59	0.84
3:D:1166:LEU:HD23	3:D:1166:LEU:N	1.92	0.84
2:M:302:VAL:O	2:M:305:PRO:HD2	1.77	0.84
3:I:908:LYS:NZ	7:Y:35:GLU:OE2	2.09	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1314:LYS:HD3	3:D:1314:LYS:N	1.92	0.84
7:Y:14:ARG:HH11	7:Y:14:ARG:HB3	1.41	0.84
2:C:1032:PHE:O	2:C:1036:GLU:HB2	1.78	0.84
3:D:204:LEU:HD23	3:D:394:LEU:HD11	1.59	0.84
3:I:135:LEU:HD23	3:I:136:ASP:N	1.92	0.84
2:H:100:LEU:HD22	2:H:372:LEU:HD22	1.57	0.84
3:I:826:PRO:O	3:I:829:VAL:HG23	1.78	0.84
2:C:325:ILE:H	2:C:325:ILE:CD1	1.87	0.84
2:M:265:ARG:HB3	2:M:267:TYR:CE2	2.12	0.84
2:H:259:GLY:O	2:H:291:ALA:HA	1.78	0.84
3:N:618:LEU:HD11	3:N:1463:LYS:HE2	1.59	0.84
2:M:474:VAL:HG23	2:M:478:VAL:O	1.78	0.84
1:F:42:ARG:HH12	2:H:857:ASP:CB	1.88	0.83
3:D:804:LEU:CD2	3:D:804:LEU:H	1.67	0.83
1:K:156:HIS:HD2	1:K:158:ILE:HG12	1.41	0.83
2:H:585:GLU:O	2:H:588:VAL:HG22	1.77	0.83
3:N:1425:THR:O	3:N:1429:LEU:HD13	1.78	0.83
4:O:47:LYS:HA	4:O:54:LEU:HB3	1.58	0.83
3:D:1144:LEU:HD11	3:D:1186:VAL:HG21	1.58	0.83
3:D:210:ARG:HG3	3:D:346:ARG:HG2	1.60	0.83
3:D:176:ASP:CB	3:D:389:GLU:HG2	2.02	0.83
3:D:483:HIS:HB2	3:D:484:PRO:HD3	1.59	0.83
2:C:979:THR:HG23	2:C:981:GLU:H	1.42	0.83
4:E:47:LYS:HA	4:E:54:LEU:HB3	1.57	0.83
2:C:598:GLU:HB2	2:C:615:TYR:OH	1.76	0.83
3:D:1379:VAL:HG12	3:D:1419:PRO:HA	1.60	0.83
3:I:1209:LEU:HD21	4:J:16:LYS:NZ	1.92	0.83
3:D:1144:LEU:HD21	3:D:1186:VAL:HG11	1.59	0.83
3:N:1211:MET:HG2	3:N:1212:ALA:N	1.93	0.83
2:M:30:LEU:HD12	2:M:30:LEU:O	1.78	0.83
3:N:358:GLY:HA2	3:N:385:VAL:O	1.79	0.83
3:D:141:ILE:HG13	3:D:448:GLU:CD	1.98	0.83
3:D:392:SER:C	3:D:393:ILE:HD12	1.98	0.83
3:N:87:ARG:CB	3:N:523:ASP:HB2	2.08	0.83
3:D:774:SER:HB3	3:D:1362:LYS:O	1.78	0.83
2:C:1019:GLN:OE1	3:D:621:LYS:HB3	1.78	0.83
2:M:872:ASN:HD21	2:M:874:LEU:HB2	1.40	0.83
2:C:565:GLN:NE2	2:C:842:ARG:HG2	1.93	0.83
1:B:41:ARG:HG3	1:B:177:VAL:CG2	2.09	0.83
1:F:74:ASP:O	1:F:78:ILE:HG12	1.79	0.83
2:C:854:PRO:HB2	2:C:856:GLU:HG3	1.61	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:387:LEU:H	3:D:387:LEU:HD12	1.44	0.83
3:N:400:VAL:HG22	3:N:443:VAL:HG21	1.60	0.83
3:N:1109:GLU:HG2	3:N:1201:CYS:HA	1.59	0.83
2:H:199:VAL:HG12	2:H:200:LEU:HG	1.59	0.83
2:C:679:PHE:HB2	2:C:683:ASN:HD21	1.44	0.83
2:C:675:ALA:CA	2:C:989:VAL:HG12	2.07	0.83
2:H:106:GLY:O	2:H:107:LEU:HD23	1.77	0.83
3:I:87:ARG:HB2	3:I:524:LEU:HD12	1.58	0.83
2:H:1024:LYS:CG	2:H:1025:ALA:H	1.90	0.83
3:D:160:GLU:HA	3:D:165:LYS:HB2	1.61	0.83
3:I:483:HIS:HB2	3:I:484:PRO:HD3	1.61	0.83
7:Y:84:GLY:HA2	7:Y:130:LEU:HD11	1.59	0.83
2:M:710:ILE:HD11	2:M:758:ARG:HE	1.43	0.83
3:D:683:ILE:HG21	3:D:688:TRP:CZ2	2.13	0.83
3:D:795:VAL:HG23	3:D:879:ARG:HH12	1.44	0.83
3:D:166:GLN:HG2	3:D:396:VAL:HG12	1.61	0.83
3:N:192:ALA:HB1	3:N:193:PRO:HD2	1.61	0.83
3:D:1091:SER:HB3	5:P:19:DC:H5'	1.60	0.83
2:M:73:LEU:HB2	2:M:93:PRO:O	1.79	0.83
2:M:95:TYR:CD1	2:M:95:TYR:N	2.46	0.83
3:I:1205:TYR:HD2	3:I:1215:VAL:HG21	1.41	0.83
2:C:442:GLU:HG2	2:C:454:SER:CB	2.09	0.83
3:N:1042:ARG:O	3:N:1057:VAL:HB	1.79	0.83
3:I:50:PHE:CD2	3:I:522:PRO:HD3	2.14	0.83
2:M:197:LEU:O	2:M:200:LEU:HG	1.79	0.83
4:E:51:LEU:O	4:E:53:GLY:N	2.12	0.83
3:N:160:GLU:HA	3:N:165:LYS:HB2	1.60	0.83
3:N:98:PRO:HG2	3:N:462:GLN:NE2	1.93	0.83
7:Z:29:ALA:HA	7:Z:32:ILE:HD12	1.59	0.83
3:I:566:ILE:CG1	2:M:180:GLY:HA2	2.09	0.83
3:I:111:LYS:HE3	3:I:1448:THR:HG22	1.61	0.83
1:B:165:ILE:H	1:B:165:ILE:HD13	1.44	0.83
3:N:982:PHE:CD2	3:N:982:PHE:C	2.52	0.82
2:C:110:GLU:CG	2:C:369:PRO:HB3	2.09	0.82
2:H:289:THR:O	2:H:291:ALA:N	2.12	0.82
3:D:1114:THR:CG2	3:D:1195:GLN:HB3	2.09	0.82
7:X:102:VAL:HG21	7:X:125:MET:CE	2.09	0.82
2:C:723:THR:HG23	2:C:725:ASP:H	1.44	0.82
2:C:1056:LYS:HD3	3:D:623:VAL:HG13	1.61	0.82
1:F:87:VAL:HG21	1:F:144:VAL:HG11	1.60	0.82
2:C:41:ASN:O	2:C:46:ALA:HB2	1.79	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:30:ARG:NH2	2:H:854:PRO:HG3	1.94	0.82
3:I:1457:ASP:O	3:I:1459:LEU:HD12	1.78	0.82
3:I:1197:ARG:HB3	3:I:1396:GLU:CD	1.98	0.82
2:M:285:LEU:O	2:M:285:LEU:HD23	1.79	0.82
3:D:52:PRO:HG3	3:D:78:VAL:HG13	1.61	0.82
2:M:1032:PHE:O	2:M:1036:GLU:HB2	1.79	0.82
2:H:853:LEU:HB2	2:H:858:MET:CE	2.09	0.82
2:M:65:VAL:HB	2:M:101:ILE:HB	1.60	0.82
2:M:191:PHE:HZ	2:M:196:LEU:HB2	1.44	0.82
2:M:1012:PRO:HD3	2:M:1026:GLN:CD	1.98	0.82
3:D:1314:LYS:HD3	3:D:1314:LYS:H	1.45	0.82
2:C:486:MET:HE3	2:C:491:GLU:HA	1.61	0.82
2:H:250:ARG:HH11	2:H:250:ARG:HB3	1.44	0.82
2:C:98:LEU:N	2:C:98:LEU:HD12	1.94	0.82
2:M:264:PRO:HB3	2:M:289:THR:HG21	1.61	0.82
2:C:129:ILE:HG22	2:C:130:ASN:N	1.94	0.82
2:C:383:ARG:HH11	2:C:383:ARG:HB2	1.42	0.82
1:K:54:THR:HG22	1:K:158:ILE:HG13	1.59	0.82
3:N:729:HIS:CD2	3:N:731:LEU:H	1.96	0.82
2:H:144:PRO:HG2	2:H:265:ARG:NH1	1.95	0.82
3:D:1106:VAL:HG12	3:D:1107:VAL:N	1.93	0.82
3:I:101:HIS:O	3:I:105:VAL:HG23	1.79	0.82
3:N:190:GLU:HG2	3:N:196:VAL:HG22	1.61	0.82
3:I:701:LEU:O	3:I:702:LEU:HD12	1.78	0.82
3:D:868:TYR:CD1	3:D:869:MET:HG3	2.14	0.82
3:D:1105:ILE:HD12	3:D:1105:ILE:N	1.94	0.82
3:D:158:TYR:HE1	3:D:452:ILE:HD11	1.44	0.82
3:N:705:ALA:CB	3:N:706:PRO:HD3	2.09	0.82
3:I:1465:ASN:HD21	3:I:1470:ARG:HB3	1.44	0.82
2:C:597:ALA:HB2	2:C:655:LEU:HD21	1.61	0.82
1:K:206:THR:CG2	1:K:209:GLU:HG3	2.08	0.82
3:I:806:PHE:CE1	3:I:813:LEU:HB3	2.15	0.82
2:M:455:LEU:HD12	2:M:456:ALA:O	1.78	0.82
3:I:179:VAL:HG13	3:I:183:GLU:HB3	1.62	0.82
2:H:134:ARG:NH2	2:H:393:GLN:HA	1.94	0.82
2:C:148:PHE:HE1	2:C:309:TYR:CD2	1.98	0.82
2:H:185:LYS:HG2	2:H:190:LYS:HG2	1.59	0.82
2:H:140:ILE:HG22	2:H:333:ILE:CD1	2.10	0.82
3:D:209:ARG:HB2	3:D:389:GLU:CB	2.10	0.82
2:C:897:LEU:HB3	2:C:899:GLN:HE21	1.45	0.82
3:N:684:LYS:HB2	3:N:687:VAL:HG23	1.59	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:367:ILE:HB	3:N:377:VAL:HG12	1.60	0.82
3:N:1372:VAL:HA	3:N:1375:MET:CE	2.10	0.82
3:N:704:ARG:HH12	3:N:743:ASP:HB3	1.44	0.82
2:H:1024:LYS:HG3	2:H:1025:ALA:N	1.95	0.82
3:I:566:ILE:HD12	3:I:566:ILE:H	1.44	0.82
2:H:456:ALA:HB3	2:H:459:ALA:HB2	1.61	0.82
3:I:1459:LEU:HD23	3:I:1468:LEU:HD13	1.61	0.82
3:N:1377:LYS:HE2	3:N:1378:TYR:CZ	2.15	0.82
1:K:86:VAL:CG1	1:K:124:ASN:HB2	2.10	0.82
3:N:897:TRP:HA	3:N:900:ILE:HD12	1.62	0.82
2:C:274:ARG:CD	2:C:285:LEU:HD22	2.10	0.82
2:H:251:ASP:O	2:H:251:ASP:CG	2.17	0.82
2:H:207:LEU:HD23	2:H:211:LEU:HD23	1.62	0.81
2:C:834:GLN:HE22	3:D:724:GLN:CG	1.91	0.81
3:I:566:ILE:CD1	2:M:180:GLY:HA2	2.10	0.81
2:M:195:LEU:HG	2:M:238:LEU:HG	1.61	0.81
1:G:128:HIS:HE2	1:G:131:THR:HG23	1.46	0.81
2:M:1074:GLU:HG2	2:M:1075:ASP:H	1.45	0.81
3:D:827:ILE:H	3:D:827:ILE:HD12	1.45	0.81
3:I:1462:LEU:HD22	3:I:1472:ILE:HG22	1.62	0.81
1:A:153:ALA:HA	1:A:156:HIS:NE2	1.95	0.81
1:F:54:THR:HG22	1:F:158:ILE:HG13	1.62	0.81
2:H:191:PHE:HB2	2:H:241:LEU:HD11	1.61	0.81
2:H:140:ILE:HG22	2:H:333:ILE:HD13	1.62	0.81
3:D:1093:TYR:CE1	3:D:1097:LYS:HE2	2.14	0.81
3:D:1482:ARG:HH21	3:D:1483:PHE:HZ	1.27	0.81
3:D:501:ALA:HB1	3:D:1453:ALA:HB2	1.61	0.81
2:C:265:ARG:HD3	2:C:267:TYR:CD1	2.15	0.81
2:H:442:GLU:HG2	2:H:454:SER:CB	2.10	0.81
2:H:939:ARG:HE	2:H:939:ARG:HA	1.45	0.81
2:M:1027:PHE:N	2:M:1027:PHE:CD2	2.45	0.81
1:B:44:LEU:HA	1:B:48:ILE:CD1	2.10	0.81
3:N:675:ARG:O	3:N:678:GLU:HG2	1.79	0.81
3:D:409:VAL:HG12	3:D:410:SER:N	1.95	0.81
4:O:70:THR:HB	4:O:72:ARG:HG2	1.62	0.81
2:M:904:PRO:HD2	2:M:908:GLY:HA2	1.60	0.81
2:C:676:ILE:HD12	2:C:871:LEU:O	1.79	0.81
2:C:270:GLY:O	2:C:274:ARG:HD3	1.81	0.81
2:C:1004:LYS:HG2	3:D:630:VAL:HG22	1.60	0.81
2:M:397:GLU:HG2	2:M:403:SER:HB3	1.61	0.81
1:B:165:ILE:N	1:B:165:ILE:HD13	1.96	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:1036:GLU:N	2:H:1036:GLU:OE1	2.12	0.81
1:L:20:TYR:HD2	1:L:21:GLY:H	1.26	0.81
3:I:15:PRO:HA	3:I:18:ILE:HD12	1.63	0.81
3:D:991:GLN:OE1	7:X:111:ASN:HA	1.81	0.81
2:H:946:ARG:CD	2:H:984:GLU:HB2	2.11	0.81
2:H:606:VAL:CG2	2:H:645:VAL:HG13	2.09	0.81
2:M:502:PRO:HB2	2:M:509:ALA:HB3	1.60	0.81
1:F:26:GLU:HG3	1:F:194:LYS:HD2	1.62	0.81
1:K:68:ILE:HD12	1:K:68:ILE:H	1.46	0.81
2:H:182:VAL:O	2:H:193:LEU:HD13	1.80	0.81
2:H:334:ARG:HA	2:H:338:GLU:OE2	1.80	0.81
3:D:1102:THR:HA	3:D:1105:ILE:HD13	1.60	0.81
4:O:45:ARG:HG2	4:O:46:PRO:HD2	1.62	0.81
2:C:678:PRO:CG	3:D:947:ILE:HD11	2.08	0.81
1:K:88:ARG:O	1:K:120:VAL:HG23	1.79	0.81
2:M:54:ILE:CG2	2:M:66:LEU:HB3	2.09	0.81
2:H:1061:GLU:OE2	3:I:84:ILE:HG21	1.79	0.81
3:D:181:ASP:HA	3:D:205:TYR:HB3	1.63	0.81
1:A:56:VAL:HG13	1:A:142:VAL:HG12	1.62	0.81
1:G:188:GLN:HE21	1:G:188:GLN:H	1.28	0.81
3:D:1266:ARG:O	3:D:1268:PRO:HD3	1.80	0.81
1:G:39:PRO:O	1:G:43:ILE:HG13	1.81	0.81
3:D:10:ILE:HG13	3:D:1434:TRP:CZ2	2.16	0.81
3:N:199:LEU:HD12	3:N:200:ASP:O	1.80	0.81
2:H:678:PRO:HG2	3:I:947:ILE:HD11	1.62	0.81
2:H:557:ARG:HG2	2:H:881:ASN:HD22	1.45	0.81
1:A:11:PHE:HB2	1:A:25:LEU:HD12	1.63	0.81
3:I:655:PRO:HA	3:I:658:LEU:HD12	1.63	0.81
1:A:206:THR:HG22	1:A:209:GLU:H	1.46	0.81
2:M:897:LEU:HB3	2:M:899:GLN:HE21	1.46	0.81
2:C:402:SER:HA	2:C:566:THR:HG23	1.62	0.81
2:H:265:ARG:HB3	2:H:267:TYR:CZ	2.14	0.81
3:D:1481:VAL:HG13	4:E:18:ARG:HD3	1.61	0.81
2:H:950:LEU:HD12	2:H:952:LEU:HD21	1.63	0.81
3:I:400:VAL:HG23	3:I:445:ARG:HG2	1.63	0.81
3:D:141:ILE:HG22	3:D:162:ARG:HH11	1.44	0.81
3:I:809:PRO:O	3:I:812:ALA:HB3	1.80	0.81
3:N:415:VAL:HG13	3:N:419:ASP:HB2	1.60	0.81
3:D:202:VAL:O	3:D:395:VAL:HG13	1.80	0.81
2:M:632:ASN:HB3	2:M:633:GLN:HE21	1.45	0.81
3:N:99:ALA:HA	3:N:575:GLN:HE22	1.46	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:204:LEU:HB3	3:D:394:LEU:HG	1.63	0.81
2:C:1105:LYS:HD2	2:C:1107:ASN:ND2	1.95	0.81
2:H:281:LEU:HG	2:H:282:GLY:N	1.95	0.80
3:N:355:VAL:CG1	3:N:385:VAL:HG21	2.12	0.80
1:A:35:THR:HG21	1:B:43:ILE:CD1	2.08	0.80
2:C:939:ARG:CA	2:C:939:ARG:HE	1.91	0.80
2:M:98:LEU:HD11	2:M:113:VAL:CG2	2.11	0.80
2:M:260:LEU:CB	2:M:291:ALA:HB1	2.10	0.80
2:H:958:THR:HG23	2:H:961:GLU:CG	2.11	0.80
3:I:1412:LYS:O	3:I:1414:PRO:HD3	1.81	0.80
3:D:1093:TYR:HH	3:D:1097:LYS:HE3	1.47	0.80
3:D:1349:VAL:HA	3:D:1368:ILE:HG21	1.63	0.80
3:D:843:PHE:CE1	3:D:864:VAL:HG11	2.15	0.80
3:I:484:PRO:HB3	3:I:488:ARG:HE	1.45	0.80
2:H:904:PRO:HD2	2:H:908:GLY:HA2	1.63	0.80
2:C:675:ALA:HA	2:C:989:VAL:CG1	2.10	0.80
2:C:368:THR:HB	2:C:369:PRO:HD3	1.63	0.80
7:Y:128:ALA:HB2	7:Y:140:LEU:HD21	1.62	0.80
7:Z:58:ILE:HA	7:Z:61:ARG:HD3	1.63	0.80
4:O:51:LEU:O	4:O:53:GLY:N	2.12	0.80
2:H:218:VAL:O	2:H:221:LEU:HG	1.82	0.80
2:C:673:LEU:HD22	2:C:867:VAL:HG12	1.64	0.80
3:D:39:PRO:HB3	3:D:45:PHE:HB2	1.63	0.80
3:N:109:PRO:HB3	3:N:494:LYS:HZ1	1.45	0.80
3:D:792:ILE:HD11	3:D:881:LEU:HD23	1.62	0.80
3:N:815:ALA:HA	3:N:818:ARG:HD2	1.62	0.80
7:Y:125:MET:HA	7:Y:140:LEU:HD11	1.63	0.80
1:A:62:LEU:HD12	1:A:62:LEU:H	1.43	0.80
3:I:96:ALA:HB3	3:I:554:LEU:HD23	1.63	0.80
2:M:162:ILE:HB	2:M:172:ILE:HB	1.63	0.80
3:N:412:GLY:HA2	3:N:434:ARG:HD3	1.61	0.80
3:D:814:ALA:HB1	3:D:818:ARG:HH21	1.45	0.80
3:I:800:LYS:HG2	3:I:826:PRO:HD2	1.64	0.80
3:I:1095:THR:O	3:I:1099:VAL:HG23	1.81	0.80
7:X:102:VAL:HG21	7:X:125:MET:HE1	1.62	0.80
3:I:1084:THR:O	3:I:1088:THR:HB	1.81	0.80
3:N:1106:VAL:HG12	3:N:1107:VAL:H	1.47	0.80
2:H:265:ARG:HD3	2:H:267:TYR:CD1	2.16	0.80
2:C:676:ILE:CG2	2:C:988:VAL:HG13	2.11	0.80
2:C:859:PRO:O	2:C:867:VAL:HG22	1.79	0.80
2:M:100:LEU:HD22	2:M:372:LEU:HD21	1.64	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:809:PRO:HB2	3:I:812:ALA:CB	2.11	0.80
2:M:404:LEU:HA	2:M:407:LYS:HD3	1.61	0.80
3:N:1118:ILE:HD13	3:N:1190:SER:HB3	1.62	0.80
2:M:710:ILE:HD13	2:M:711:GLU:N	1.97	0.80
3:I:1301:LYS:HG3	3:I:1303:TYR:CE1	2.16	0.80
1:B:94:LEU:HD11	1:B:119:ASP:HB2	1.63	0.80
1:A:161:ARG:HB2	1:A:161:ARG:NH1	1.97	0.80
2:H:199:VAL:HG13	2:H:235:LEU:HD21	1.62	0.80
3:N:983:LEU:HD23	3:N:983:LEU:N	1.96	0.80
7:Z:102:VAL:HG22	7:Z:119:ILE:HD11	1.63	0.80
2:H:557:ARG:HD3	2:H:879:ARG:HB3	1.62	0.80
3:D:804:LEU:HB2	3:D:831:GLY:CA	2.12	0.80
2:C:52:PHE:CG	2:C:68:PHE:HB2	2.16	0.80
2:H:572:ILE:HG13	2:H:573:ARG:H	1.47	0.80
2:H:447:ALA:O	2:H:448:ASN:HB2	1.80	0.80
3:N:462:GLN:HG2	3:N:466:LYS:HE3	1.62	0.80
2:M:878:SER:HA	3:N:1034:GLN:HE22	1.46	0.80
3:D:1122:LEU:HD11	3:D:1186:VAL:HG23	1.63	0.80
2:H:49:ARG:HA	2:H:52:PHE:CD2	2.12	0.80
2:M:861:LEU:HA	2:M:974:LEU:HD12	1.64	0.80
3:N:655:PRO:HA	3:N:658:LEU:HD12	1.62	0.80
3:N:210:ARG:H	3:N:389:GLU:HB2	1.44	0.80
1:K:182:GLU:HG2	1:K:183:ASP:H	1.46	0.80
1:K:186:LEU:HD23	1:K:187:GLY:N	1.96	0.80
3:I:458:ALA:HB2	3:I:575:GLN:HE22	1.46	0.80
3:I:814:ALA:HB1	3:I:818:ARG:HH21	1.47	0.80
2:H:467:ILE:H	2:H:467:ILE:HD12	1.46	0.80
2:M:886:LEU:HD13	3:N:951:ILE:HD12	1.64	0.80
2:M:1012:PRO:HG2	2:M:1021:LEU:O	1.82	0.80
3:I:554:LEU:HD22	3:I:574:LEU:HD22	1.63	0.80
1:F:123:MET:O	1:F:125:PRO:HD3	1.80	0.80
1:F:12:THR:OG1	1:F:24:VAL:HB	1.81	0.80
2:H:140:ILE:HG23	2:H:410:ILE:HD12	1.64	0.80
1:B:42:ARG:HH11	1:B:42:ARG:HG2	1.47	0.80
3:N:141:ILE:HG13	3:N:448:GLU:OE1	1.82	0.80
3:N:850:LEU:H	3:N:850:LEU:HD12	1.46	0.80
3:N:111:LYS:HG2	3:N:1452:ILE:HD11	1.63	0.80
1:F:220:GLU:O	1:F:223:THR:HG22	1.82	0.80
3:N:1412:LYS:O	3:N:1414:PRO:HD3	1.80	0.80
3:D:1093:TYR:CE2	3:D:1097:LYS:CG	2.65	0.79
3:D:809:PRO:O	3:D:812:ALA:HB3	1.81	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:141:ILE:HD13	3:N:142:LEU:N	1.97	0.79
2:C:141:HIS:HB3	2:C:418:LEU:CD2	2.12	0.79
2:H:1106:ASP:OD1	3:I:7:LYS:HD2	1.82	0.79
3:N:89:ARG:O	3:N:521:PRO:HG3	1.82	0.79
3:I:1261:GLU:OE1	3:I:1268:PRO:HA	1.82	0.79
3:N:813:LEU:HD12	3:N:814:ALA:N	1.97	0.79
3:I:17:LYS:HG2	3:I:21:TRP:NE1	1.95	0.79
2:H:115:LEU:HD21	2:H:351:LEU:HD22	1.63	0.79
1:A:73:GLU:HB2	1:A:78:ILE:HD11	1.63	0.79
1:G:20:TYR:HE2	1:G:198:ARG:HB2	1.46	0.79
3:I:181:ASP:HB3	3:I:441:ARG:CD	2.12	0.79
3:D:1466:VAL:HG12	3:D:1467:ILE:HD13	1.63	0.79
2:C:325:ILE:HD12	2:C:325:ILE:N	1.97	0.79
3:N:806:PHE:HE1	3:N:813:LEU:HB3	1.46	0.79
3:D:109:PRO:HB3	3:D:494:LYS:NZ	1.96	0.79
1:G:59:GLU:HG3	1:G:139:ASN:HD22	1.47	0.79
4:J:51:LEU:O	4:J:53:GLY:N	2.15	0.79
3:I:625:TYR:HB3	3:I:749:VAL:CG2	2.13	0.79
1:K:86:VAL:HG12	1:K:124:ASN:HB2	1.62	0.79
3:D:563:PRO:HG2	3:D:566:ILE:HD12	1.63	0.79
3:I:1234:THR:HB	3:I:1235:GLN:OE1	1.80	0.79
1:A:177:VAL:HG22	1:A:199:ILE:HG23	1.64	0.79
2:H:144:PRO:HG2	2:H:265:ARG:HH12	1.47	0.79
1:F:188:GLN:H	1:F:188:GLN:HE21	1.30	0.79
2:M:338:GLU:HA	2:M:341:THR:HG22	1.62	0.79
3:I:969:ARG:HG3	3:I:970:LYS:N	1.95	0.79
1:L:185:ARG:CZ	3:N:692:GLU:HG2	2.12	0.79
3:D:115:LEU:HD23	3:D:115:LEU:C	2.02	0.79
3:I:134:VAL:O	3:I:454:ALA:HB1	1.83	0.79
2:M:418:LEU:N	2:M:418:LEU:HD12	1.97	0.79
4:J:36:LYS:NZ	4:J:45:ARG:HH22	1.81	0.79
3:D:1277:ILE:HD13	3:D:1301:LYS:HB2	1.62	0.79
3:N:405:ASP:HB2	3:N:423:ASP:OD1	1.83	0.79
3:D:412:GLY:HA2	3:D:434:ARG:HD3	1.64	0.79
2:M:676:ILE:CG2	2:M:988:VAL:HG13	2.12	0.79
7:Y:112:VAL:HG13	7:Y:117:MET:HE3	1.65	0.79
3:D:409:VAL:CG1	3:D:410:SER:N	2.46	0.79
2:C:654:LEU:H	2:C:654:LEU:HD23	1.44	0.79
4:E:18:ARG:O	4:E:22:VAL:HG23	1.82	0.79
3:I:1025:GLN:CA	3:I:1025:GLN:HE21	1.90	0.79
2:M:289:THR:O	2:M:291:ALA:N	2.15	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:185:ARG:HD3	3:D:692:GLU:OE2	1.83	0.79
2:M:1056:LYS:HD3	3:N:623:VAL:CG1	2.13	0.79
3:I:1128:VAL:O	3:I:1129:THR:HG22	1.83	0.79
3:N:356:PRO:CB	3:N:359:ALA:HB2	2.04	0.79
2:C:1032:PHE:HE2	2:C:1037:VAL:HA	1.48	0.79
3:N:826:PRO:HD2	3:N:829:VAL:HG22	1.65	0.79
3:N:206:ARG:HG2	3:N:392:SER:H	1.47	0.79
2:C:304:LEU:CD2	2:C:305:PRO:HD3	2.13	0.79
2:C:744:ARG:HG3	2:C:747:ALA:HB2	1.63	0.79
7:X:13:GLU:HG2	7:X:17:GLN:HE21	1.48	0.79
2:C:471:TYR:O	2:C:483:VAL:HG13	1.82	0.79
3:D:654:LYS:HB3	3:D:655:PRO:HD3	1.65	0.79
2:H:329:GLY:HA3	2:H:489:THR:HG23	1.63	0.79
3:D:632:VAL:HG23	3:D:725:SER:HB2	1.63	0.79
3:I:109:PRO:HB3	3:I:494:LYS:HZ1	1.42	0.79
3:D:864:VAL:HG12	3:D:865:THR:H	1.48	0.79
3:I:1205:TYR:CD2	3:I:1215:VAL:HG21	2.18	0.79
2:C:74:GLY:O	2:C:76:PRO:HD3	1.82	0.79
2:C:30:LEU:HD12	2:C:30:LEU:O	1.83	0.79
2:H:897:LEU:HB3	2:H:899:GLN:HE21	1.48	0.79
2:C:289:THR:O	2:C:291:ALA:N	2.14	0.79
3:I:1007:VAL:HG12	3:I:1011:PHE:CE2	2.18	0.79
2:H:224:GLU:O	2:H:228:ALA:HB3	1.82	0.79
7:Y:102:VAL:CG1	7:Y:119:ILE:HD11	2.13	0.79
3:I:720:LEU:H	3:I:720:LEU:HD12	1.47	0.79
2:C:477:GLY:HA2	2:C:508:ILE:HD11	1.64	0.79
2:M:946:ARG:HD3	2:M:984:GLU:HB2	1.64	0.79
2:M:442:GLU:HG2	2:M:454:SER:CB	2.12	0.79
3:N:894:LYS:O	3:N:898:GLU:HG3	1.81	0.79
3:D:1109:GLU:HG3	3:D:1217:ILE:HD12	1.63	0.79
2:C:1097:LEU:CD1	3:D:1451:ALA:HB2	2.12	0.79
3:D:520:LEU:HD11	3:D:524:LEU:HD22	1.65	0.79
2:C:148:PHE:HE1	2:C:309:TYR:HD2	1.30	0.79
3:D:1441:GLN:CD	3:D:1442:ASN:H	1.85	0.79
2:H:142:ARG:NE	2:H:325:ILE:HD12	1.97	0.79
1:B:33:GLY:O	1:B:195:LEU:HD22	1.83	0.79
2:C:253:ALA:O	2:C:257:VAL:HG23	1.83	0.79
2:C:170:PRO:HG2	2:C:258:TYR:CE1	2.18	0.78
2:C:890:LEU:HD21	2:C:901:TYR:CD1	2.18	0.78
3:I:1098:LEU:CD2	3:I:1229:ILE:HB	2.12	0.78
3:I:128:TYR:HE2	3:I:458:ALA:HA	1.47	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:831:ARG:HH12	2:M:1002:GLU:HB2	1.47	0.78
3:I:982:PHE:C	3:I:982:PHE:CD2	2.57	0.78
3:N:210:ARG:N	3:N:389:GLU:HB2	1.97	0.78
2:H:54:ILE:CG2	2:H:66:LEU:HB3	2.12	0.78
2:C:560:MET:O	2:C:564:MET:HG2	1.83	0.78
3:D:1066:THR:CG2	3:D:1069:GLU:HB2	2.13	0.78
2:H:988:VAL:HG11	3:I:949:ILE:O	1.82	0.78
2:C:1081:VAL:HG13	2:C:1085:PHE:HB3	1.63	0.78
1:B:76:VAL:O	1:B:79:ILE:HG13	1.83	0.78
3:N:1379:VAL:CG1	3:N:1419:PRO:HA	2.13	0.78
2:C:259:GLY:O	2:C:291:ALA:HA	1.83	0.78
3:D:181:ASP:HA	3:D:205:TYR:CD2	2.18	0.78
2:H:408:ARG:HH21	2:H:455:LEU:CD1	1.96	0.78
2:M:274:ARG:HG3	2:M:285:LEU:HD22	1.64	0.78
3:N:411:THR:HG23	3:N:436:GLU:HA	1.63	0.78
3:N:355:VAL:HG12	3:N:385:VAL:HG21	1.65	0.78
2:H:862:PRO:HB3	2:H:929:ARG:HH22	1.47	0.78
1:K:206:THR:HG22	1:K:209:GLU:CG	2.12	0.78
3:N:165:LYS:NZ	3:N:199:LEU:HD22	1.99	0.78
1:G:123:MET:C	1:G:125:PRO:HD3	2.03	0.78
3:N:714:GLN:OE1	3:N:732:VAL:HG11	1.82	0.78
7:X:14:ARG:HH11	7:X:14:ARG:HB3	1.46	0.78
2:C:570:PRO:HD2	2:C:635:THR:HG21	1.63	0.78
3:I:1326:THR:HG22	3:I:1327:ARG:N	1.98	0.78
3:D:1211:MET:HG2	3:D:1212:ALA:N	1.97	0.78
3:N:202:VAL:O	3:N:395:VAL:HG13	1.83	0.78
3:N:356:PRO:HB2	3:N:359:ALA:CB	2.03	0.78
3:D:525:ARG:HB2	3:D:538:SER:HB3	1.64	0.78
3:N:1106:VAL:HG12	3:N:1107:VAL:N	1.99	0.78
2:M:442:GLU:HG2	2:M:454:SER:HB2	1.66	0.78
2:C:134:ARG:NH2	2:C:393:GLN:HA	1.99	0.78
2:H:896:PHE:CD2	2:H:925:TYR:HB2	2.18	0.78
3:N:203:ALA:HA	3:N:395:VAL:HG22	1.66	0.78
3:D:179:VAL:HG22	3:D:183:GLU:OE2	1.84	0.78
7:Z:22:GLU:HB3	7:Z:62:ILE:HD11	1.65	0.78
3:I:774:SER:HB3	3:I:1362:LYS:O	1.84	0.78
2:C:329:GLY:HA3	2:C:489:THR:HG23	1.64	0.78
3:N:1080:GLY:CA	7:Z:49:GLU:HG3	2.13	0.78
3:N:1087:ARG:HD2	3:N:1234:THR:O	1.83	0.78
1:A:36:LEU:O	1:A:39:PRO:HD2	1.83	0.78
2:M:281:LEU:HG	2:M:282:GLY:H	1.45	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:292:ARG:HG3	2:H:294:GLU:HG2	1.66	0.78
4:J:36:LYS:HE2	4:J:36:LYS:HA	1.65	0.78
2:M:172:ILE:H	2:M:172:ILE:HD12	1.48	0.78
2:C:557:ARG:HG2	2:C:881:ASN:ND2	1.98	0.78
3:D:729:HIS:CE1	3:D:731:LEU:HB2	2.18	0.78
4:E:59:ASN:HB3	4:E:62:THR:OG1	1.84	0.78
3:D:992:ILE:O	3:D:995:LEU:HB3	1.84	0.78
1:A:102:LYS:HD3	1:A:139:ASN:ND2	1.99	0.78
1:L:25:LEU:HD23	1:L:28:LEU:HD11	1.65	0.78
1:L:53:VAL:HG21	1:L:82:LEU:O	1.83	0.78
1:F:100:LEU:HD21	1:F:141:GLU:HG3	1.64	0.78
3:I:163:TYR:HB3	2:M:209:ARG:NH1	1.97	0.78
3:I:1320:GLU:HG2	3:I:1339:LYS:HZ2	1.49	0.78
2:M:281:LEU:HD11	2:M:305:PRO:O	1.82	0.78
2:M:1092:LEU:HD13	2:M:1099:VAL:HG21	1.66	0.78
3:I:1348:LEU:HD23	3:I:1372:VAL:HG23	1.66	0.78
3:I:644:LEU:HD12	3:I:645:PRO:CD	2.13	0.78
1:A:87:VAL:HG21	1:A:144:VAL:HG11	1.64	0.78
2:H:78:PHE:HB3	2:H:79:PRO:HD2	1.66	0.78
3:D:470:LEU:HB2	3:D:503:LEU:HD21	1.65	0.78
3:I:140:ALA:H	3:I:450:TYR:HE2	1.29	0.78
2:C:239:PHE:HZ	2:C:252:LYS:HA	1.45	0.78
2:C:1097:LEU:HD11	3:D:1451:ALA:HB2	1.65	0.78
1:K:87:VAL:HG21	1:K:144:VAL:HG11	1.65	0.78
3:I:1033:GLN:NE2	7:Y:54:GLU:HG2	1.97	0.78
1:G:185:ARG:HH12	3:I:692:GLU:HB2	1.46	0.78
3:D:143:ASN:HA	3:D:161:LEU:HD21	1.65	0.78
7:Y:14:ARG:NH1	7:Y:14:ARG:HB3	1.99	0.78
3:N:1197:ARG:HB3	3:N:1396:GLU:CD	2.04	0.78
2:M:773:LEU:O	2:M:777:ILE:HG12	1.84	0.78
2:H:758:ARG:HB3	2:H:788:THR:O	1.83	0.78
3:N:1166:LEU:HD23	3:N:1166:LEU:H	1.48	0.78
2:C:861:LEU:CG	2:C:862:PRO:HD2	2.10	0.78
3:N:137:PRO:CG	3:N:453:ASP:H	1.89	0.78
3:I:185:VAL:HG22	3:I:189:GLN:NE2	1.99	0.78
1:L:41:ARG:HH11	1:L:177:VAL:HG23	1.47	0.78
2:M:1019:GLN:NE2	3:N:621:LYS:HG3	1.98	0.78
3:N:361:VAL:HG13	3:N:379:ALA:HB1	1.64	0.78
3:D:15:PRO:HB3	3:D:515:GLU:OE1	1.82	0.78
2:C:557:ARG:HG2	2:C:881:ASN:HD22	1.48	0.77
3:D:1258:ARG:HH21	3:D:1351:GLU:HG2	1.49	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1166:LEU:CD2	3:D:1166:LEU:H	1.93	0.77
3:N:996:TRP:CE2	3:N:1056:PRO:HG2	2.19	0.77
2:H:226:VAL:HG13	2:H:227:PHE:CD1	2.19	0.77
1:L:88:ARG:HH11	1:L:123:MET:HE1	1.46	0.77
2:M:726:ILE:HD12	2:M:726:ILE:O	1.83	0.77
2:C:486:MET:CE	2:C:491:GLU:HA	2.13	0.77
3:D:1286:THR:O	3:D:1287:GLU:HG2	1.84	0.77
2:C:762:LYS:HE2	2:C:768:THR:H	1.49	0.77
2:H:333:ILE:HG23	2:H:410:ILE:HD11	1.63	0.77
3:N:477:LEU:HD22	3:N:492:ALA:HB1	1.66	0.77
2:H:376:ARG:HB3	2:H:377:PRO:HD3	1.65	0.77
3:N:1305:LEU:HD12	3:N:1311:LEU:HD22	1.66	0.77
3:I:1123:PHE:HE2	3:I:1184:GLN:HA	1.48	0.77
1:L:115:LEU:HD12	1:L:115:LEU:O	1.84	0.77
3:I:62:LYS:HA	3:I:62:LYS:HE2	1.66	0.77
3:N:1136:LYS:HB2	3:N:1139:ASP:OD2	1.84	0.77
3:D:1147:ARG:HB3	3:D:1188:VAL:HG21	1.65	0.77
2:H:946:ARG:HD3	2:H:984:GLU:HB2	1.64	0.77
3:I:947:ILE:O	3:I:947:ILE:HD12	1.84	0.77
2:C:52:PHE:HZ	2:C:98:LEU:HB3	1.49	0.77
2:H:603:VAL:HG23	2:H:647:GLN:N	1.99	0.77
2:M:958:THR:HG23	2:M:961:GLU:CG	2.13	0.77
3:D:480:GLU:O	3:D:484:PRO:HD2	1.84	0.77
3:N:347:VAL:HG13	3:N:351:MET:HB3	1.65	0.77
4:O:51:LEU:C	4:O:53:GLY:H	1.87	0.77
2:C:367:LEU:HD23	2:C:371:LYS:HE3	1.65	0.77
1:A:170:VAL:O	1:A:170:VAL:HG23	1.85	0.77
3:D:1330:ILE:HD12	3:D:1330:ILE:N	2.00	0.77
3:N:356:PRO:CB	3:N:441:ARG:HA	2.14	0.77
2:C:199:VAL:HG21	2:C:238:LEU:HD12	1.64	0.77
3:N:714:GLN:OE1	3:N:765:SER:HB2	1.84	0.77
2:C:221:LEU:HD12	2:C:222:MET:N	1.98	0.77
3:D:62:LYS:HB2	3:D:73:CYS:SG	2.24	0.77
2:H:632:ASN:HB3	2:H:633:GLN:NE2	2.00	0.77
2:H:221:LEU:HD12	2:H:222:MET:N	1.99	0.77
3:D:813:LEU:HD12	3:D:814:ALA:N	1.99	0.77
2:C:333:ILE:CG1	2:C:410:ILE:HD11	2.15	0.77
3:I:1472:ILE:N	3:I:1472:ILE:HD13	1.99	0.77
2:C:1006:HIS:ND1	2:C:1027:PHE:HD1	1.82	0.77
3:D:989:TYR:CE2	3:D:993:LEU:HD11	2.19	0.77
3:N:656:PHE:HB3	3:N:694:VAL:HG11	1.67	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:252:LYS:O	2:C:252:LYS:HG3	1.83	0.77
2:C:1096:ALA:HB2	3:D:101:HIS:CD2	2.20	0.77
3:N:1035:ILE:HA	3:N:1038:LEU:HD12	1.67	0.77
3:D:783:ARG:HA	3:D:1028:ALA:HA	1.67	0.77
2:M:78:PHE:HB3	2:M:79:PRO:HD2	1.65	0.77
2:M:89:THR:HA	2:M:129:ILE:O	1.83	0.77
3:I:843:PHE:CD2	3:I:849:ALA:HA	2.19	0.77
3:D:208:PRO:O	3:D:347:VAL:HB	1.85	0.77
2:M:839:LEU:N	2:M:839:LEU:HD23	2.00	0.77
3:I:564:GLU:H	2:M:223:ASP:HB2	1.50	0.77
3:N:809:PRO:O	3:N:812:ALA:HB3	1.84	0.77
2:M:140:ILE:HD11	2:M:412:ALA:HA	1.66	0.77
3:I:1426:LYS:HA	3:I:1429:LEU:HD22	1.67	0.77
7:Y:112:VAL:HG13	7:Y:117:MET:CE	2.13	0.77
3:D:409:VAL:CG1	3:D:410:SER:H	1.97	0.77
1:F:57:TYR:CE2	1:F:161:ARG:HD2	2.19	0.77
2:M:668:LEU:HD12	2:M:668:LEU:N	2.00	0.77
1:K:64:GLU:OE2	1:K:79:ILE:HG12	1.85	0.77
2:H:106:GLY:C	2:H:107:LEU:HD23	2.05	0.77
3:N:799:LYS:O	3:N:799:LYS:HD3	1.85	0.77
2:H:693:GLU:OE1	2:H:696:LYS:HD2	1.83	0.77
3:I:642:CYS:HB3	3:I:716:PHE:CB	2.14	0.77
2:H:158:TYR:CD1	2:H:313:LEU:HD21	2.19	0.77
2:H:771:GLU:O	2:H:771:GLU:HG2	1.85	0.77
2:M:1037:VAL:HG13	2:M:1049:LEU:HD11	1.67	0.77
2:H:1004:LYS:O	3:I:629:SER:HA	1.84	0.77
2:C:480:THR:HG22	2:C:481:ASP:H	1.50	0.77
3:N:982:PHE:HD2	3:N:982:PHE:C	1.87	0.77
3:I:827:ILE:HG22	3:I:827:ILE:O	1.85	0.77
2:C:267:TYR:HB2	2:C:272:ALA:HB1	1.65	0.77
3:I:1231:GLU:HB3	3:I:1232:PRO:HD3	1.63	0.77
3:I:139:GLY:HA3	3:I:162:ARG:CZ	2.15	0.77
1:A:86:VAL:CG1	1:A:124:ASN:HB2	2.15	0.77
3:I:18:ILE:HG23	3:I:518:PRO:HG3	1.67	0.77
1:A:115:LEU:HD22	1:F:161:ARG:NH2	1.98	0.77
2:C:447:ALA:O	2:C:448:ASN:HB2	1.85	0.77
2:H:267:TYR:HB2	2:H:272:ALA:HB1	1.65	0.76
2:M:101:ILE:HG23	2:M:107:LEU:CD2	2.14	0.76
2:C:369:PRO:HG2	2:C:370:ALA:H	1.47	0.76
3:N:470:LEU:CB	3:N:503:LEU:HD21	2.13	0.76
1:B:84:GLU:HG2	1:B:127:LEU:HD11	1.66	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1326:THR:HG22	3:N:1327:ARG:N	2.01	0.76
3:N:646:LYS:HG3	3:N:647:ARG:H	1.50	0.76
3:N:890:VAL:HG11	3:N:922:LEU:HD13	1.66	0.76
3:N:991:GLN:OE1	7:Z:112:VAL:HB	1.85	0.76
3:D:84:ILE:HG22	3:D:87:ARG:NE	2.00	0.76
4:E:54:LEU:HD21	4:E:58:PRO:HG3	1.68	0.76
2:C:64:LEU:HD22	2:C:359:MET:HG3	1.66	0.76
3:N:1285:GLU:O	3:N:1286:THR:CG2	2.32	0.76
3:I:484:PRO:HB3	3:I:488:ARG:NE	2.00	0.76
3:I:959:GLU:OE2	3:I:959:GLU:N	2.19	0.76
2:M:445:GLU:HG3	2:M:560:MET:HE3	1.66	0.76
3:D:1109:GLU:HG2	3:D:1201:CYS:CA	2.15	0.76
2:C:1085:PHE:HE2	3:D:1468:LEU:HG	1.49	0.76
3:D:639:LEU:CD1	3:D:766:ALA:HB2	2.14	0.76
3:I:1136:LYS:HB2	3:I:1139:ASP:OD2	1.84	0.76
2:M:516:ARG:NE	3:N:1068:LEU:HD22	1.99	0.76
1:L:86:VAL:HG13	1:L:123:MET:HG2	1.67	0.76
1:A:74:ASP:O	1:A:78:ILE:HG12	1.84	0.76
2:H:707:ARG:HG3	2:H:826:TYR:CE1	2.21	0.76
4:O:18:ARG:O	4:O:22:VAL:HG23	1.85	0.76
2:M:98:LEU:N	2:M:98:LEU:HD12	1.99	0.76
1:B:177:VAL:HG12	1:B:199:ILE:HD12	1.67	0.76
1:F:26:GLU:HB3	1:F:194:LYS:HG3	1.66	0.76
2:M:950:LEU:HB3	2:M:952:LEU:HD23	1.64	0.76
1:B:62:LEU:HD12	1:B:62:LEU:H	1.51	0.76
2:M:851:LYS:HG2	2:M:853:LEU:HD12	1.67	0.76
2:H:39:ARG:HD2	2:H:39:ARG:H	1.50	0.76
3:D:996:TRP:O	3:D:1000:THR:HG22	1.86	0.76
3:D:1231:GLU:HB3	3:D:1232:PRO:HD3	1.68	0.76
2:H:418:LEU:HD12	2:H:418:LEU:N	2.00	0.76
2:H:1089:VAL:HG21	2:H:1111:ILE:HD13	1.65	0.76
3:I:134:VAL:CG2	3:I:460:ALA:HB1	2.14	0.76
3:N:608:SER:HB3	3:N:1443:THR:OG1	1.85	0.76
2:H:1013:TYR:HB3	2:H:1018:GLN:HE22	1.50	0.76
3:D:13:ALA:HB1	3:D:18:ILE:HD11	1.67	0.76
1:A:90:LEU:HD13	1:A:119:ASP:O	1.86	0.76
2:C:212:GLY:HA3	2:C:218:VAL:HG21	1.66	0.76
3:I:600:LEU:HD12	3:I:600:LEU:H	1.51	0.76
2:H:626:ARG:HB2	2:H:639:GLN:HE21	1.49	0.76
3:I:581:LEU:H	3:I:581:LEU:HD23	1.50	0.76
1:A:218:LEU:HD23	1:B:222:LEU:HD21	1.66	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:701:LEU:HD11	3:N:750:PRO:HG3	1.67	0.76
2:C:630:ARG:HD3	2:C:705:ILE:HB	1.68	0.76
2:H:495:THR:HG21	2:H:517:ARG:NH2	1.94	0.76
3:I:544:TYR:O	3:I:548:ILE:HD13	1.85	0.76
2:M:199:VAL:HG21	2:M:238:LEU:HD12	1.66	0.76
3:D:970:LYS:NZ	7:X:113:LEU:HD23	2.00	0.76
1:F:24:VAL:HG13	1:F:196:THR:HG22	1.66	0.76
2:H:56:GLU:HB3	2:H:359:MET:SD	2.26	0.76
3:D:123:LEU:HD21	3:D:151:GLN:NE2	2.00	0.76
3:N:928:ALA:HA	3:N:931:LEU:HD12	1.67	0.76
3:D:686:GLU:HA	3:D:689:ASP:OD2	1.85	0.76
1:F:86:VAL:CG1	1:F:124:ASN:HB2	2.16	0.76
3:I:729:HIS:CE1	3:I:731:LEU:H	2.03	0.76
1:K:74:ASP:O	1:K:78:ILE:HG13	1.85	0.76
3:D:123:LEU:HD21	3:D:151:GLN:HE22	1.49	0.76
2:C:1095:LEU:HD11	2:C:1097:LEU:HD23	1.66	0.76
3:N:95:LEU:HD21	3:N:574:LEU:CD1	2.14	0.76
3:N:495:ARG:O	3:N:499:VAL:HG23	1.86	0.76
2:H:110:GLU:CG	2:H:369:PRO:HG3	2.15	0.76
3:I:1000:THR:O	3:I:1003:VAL:HG12	1.86	0.76
2:M:403:SER:O	2:M:407:LYS:HG3	1.85	0.76
3:D:925:GLU:HB2	4:E:2:ALA:HB3	1.68	0.76
2:M:260:LEU:O	2:M:260:LEU:HD12	1.85	0.76
3:D:179:VAL:CG1	3:D:183:GLU:HB3	2.15	0.76
3:N:1311:LEU:N	3:N:1311:LEU:HD23	2.00	0.76
3:N:701:LEU:HD11	3:N:750:PRO:CG	2.15	0.76
3:I:670:VAL:HG13	3:I:671:LYS:H	1.50	0.76
3:D:1093:TYR:CE2	3:D:1097:LYS:HG2	2.21	0.76
3:N:135:LEU:HD22	3:N:148:GLU:O	1.85	0.76
3:N:1021:TYR:CE2	3:N:1025:GLN:HG2	2.21	0.76
3:D:486:ARG:HA	3:D:489:ARG:HG2	1.67	0.76
1:A:62:LEU:HD12	1:A:62:LEU:N	2.00	0.76
3:I:642:CYS:HB3	3:I:716:PHE:HB2	1.68	0.75
2:H:549:PHE:CD2	2:H:886:LEU:HB3	2.21	0.75
3:N:18:ILE:CG2	3:N:518:PRO:HG3	2.15	0.75
1:B:48:ILE:H	1:B:48:ILE:HD12	1.52	0.75
2:C:84:ARG:HH11	2:C:84:ARG:HG3	1.51	0.75
2:M:352:ALA:HA	2:M:355:VAL:HG12	1.68	0.75
3:D:1408:ILE:H	3:D:1408:ILE:HD12	1.49	0.75
2:H:205:GLU:CD	2:H:206:THR:H	1.90	0.75
2:C:258:TYR:HE2	2:C:290:LEU:HD11	1.51	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:673:LEU:CD2	2:C:867:VAL:HG12	2.17	0.75
3:N:108:VAL:HB	3:N:109:PRO:CD	2.16	0.75
3:N:826:PRO:O	3:N:829:VAL:HG23	1.85	0.75
3:N:1330:ILE:HG21	3:N:1335:LEU:HD22	1.65	0.75
3:I:1326:THR:HG22	3:I:1327:ARG:H	1.51	0.75
2:M:428:ARG:HG3	2:M:451:LEU:HD21	1.68	0.75
2:C:140:ILE:CD1	2:C:412:ALA:HA	2.16	0.75
3:D:706:PRO:HG3	6:Q:10:G:N2	2.02	0.75
2:C:950:LEU:HD12	2:C:952:LEU:HD21	1.68	0.75
3:D:482:LYS:HE2	3:D:1388:ARG:HH21	1.52	0.75
3:I:625:TYR:HB3	3:I:749:VAL:HG23	1.66	0.75
3:D:157:GLU:HB3	3:D:161:LEU:HD13	1.68	0.75
1:K:46:SER:HB3	2:M:856:GLU:HG2	1.68	0.75
3:N:729:HIS:HD2	3:N:731:LEU:H	1.32	0.75
2:H:744:ARG:HG3	2:H:747:ALA:HB2	1.69	0.75
1:G:185:ARG:HD2	1:G:186:LEU:N	2.01	0.75
2:H:157:ARG:NH1	2:H:314:THR:HB	2.01	0.75
2:H:831:ARG:HH12	2:H:1002:GLU:HB2	1.51	0.75
3:I:857:ILE:N	3:I:857:ILE:HD12	1.99	0.75
2:H:84:ARG:HE	2:H:128:ILE:HD11	1.51	0.75
2:M:462:ASP:HB3	2:M:468:ARG:CD	2.15	0.75
1:F:36:LEU:O	1:F:39:PRO:HD2	1.84	0.75
2:C:408:ARG:HH21	2:C:455:LEU:CD1	1.91	0.75
3:I:1099:VAL:O	3:I:1103:HIS:HB3	1.87	0.75
3:N:87:ARG:HB3	3:N:523:ASP:CB	2.16	0.75
2:H:772:ARG:HH11	3:N:484:PRO:HA	1.50	0.75
4:J:36:LYS:HZ1	4:J:45:ARG:HH22	1.33	0.75
2:C:218:VAL:O	2:C:221:LEU:HG	1.86	0.75
1:G:133:GLU:HG3	1:G:134:GLU:H	1.51	0.75
3:N:104:PHE:O	3:N:112:ILE:HG22	1.85	0.75
3:N:465:LEU:HD21	3:N:509:PRO:HB2	1.66	0.75
7:Y:5:VAL:O	7:Y:73:VAL:HG23	1.86	0.75
3:D:1093:TYR:CE2	3:D:1097:LYS:HG3	2.22	0.75
1:G:40:LEU:HA	1:G:43:ILE:HD12	1.69	0.75
3:I:164:GLY:O	2:M:209:ARG:CG	2.31	0.75
3:I:820:GLU:HG3	3:I:836:VAL:CG2	2.16	0.75
1:G:56:VAL:HG12	1:G:57:TYR:N	2.01	0.75
3:N:996:TRP:HA	3:N:999:THR:CG2	2.16	0.75
3:D:481:MET:HE2	3:D:493:ARG:HA	1.68	0.75
2:M:250:ARG:O	2:M:252:LYS:N	2.17	0.75
3:N:600:LEU:HD12	3:N:600:LEU:H	1.51	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:165:ILE:H	1:K:165:ILE:HD13	1.51	0.75
4:J:59:ASN:ND2	4:J:61:VAL:HG22	2.02	0.75
2:C:260:LEU:CB	2:C:291:ALA:HB1	2.15	0.75
2:C:1004:LYS:HG2	3:D:630:VAL:CG2	2.15	0.75
3:D:925:GLU:CB	4:E:2:ALA:HB3	2.16	0.75
2:M:272:ALA:HA	2:M:464:LEU:CD2	2.17	0.75
2:H:524:VAL:HG12	2:H:525:SER:N	2.00	0.75
2:H:183:SER:C	2:H:193:LEU:HD11	2.08	0.75
4:J:47:LYS:HA	4:J:54:LEU:HB3	1.67	0.75
3:N:1101:VAL:HG23	3:N:1102:THR:HG23	1.68	0.75
2:H:878:SER:O	3:I:1034:GLN:NE2	2.19	0.75
3:D:1326:THR:HG22	3:D:1327:ARG:H	1.51	0.75
3:D:1128:VAL:O	3:D:1128:VAL:HG12	1.84	0.75
1:L:221:HIS:HA	1:L:224:TYR:CD2	2.21	0.75
3:I:1119:SER:O	3:I:1121:PRO:HD3	1.85	0.75
2:C:1095:LEU:HD11	2:C:1097:LEU:CD2	2.17	0.75
2:C:861:LEU:HD23	2:C:863:ASP:H	1.52	0.75
1:A:54:THR:HG22	1:A:158:ILE:CD1	2.16	0.75
2:M:259:GLY:O	2:M:291:ALA:HA	1.86	0.75
2:M:642:ARG:HG3	2:M:657:ASP:OD2	1.86	0.75
4:E:64:ALA:O	4:E:68:LEU:HD13	1.86	0.75
1:K:39:PRO:HG3	1:L:39:PRO:CG	2.17	0.75
1:G:199:ILE:N	1:G:199:ILE:HD12	2.01	0.75
2:M:31:GLN:NE2	2:M:34:VAL:HG23	2.02	0.75
3:I:166:GLN:HG2	3:I:396:VAL:HG12	1.67	0.74
1:B:39:PRO:O	1:B:43:ILE:HG12	1.87	0.74
3:D:86:ARG:HB3	3:D:86:ARG:CZ	2.15	0.74
3:N:135:LEU:HG	3:N:136:ASP:N	2.01	0.74
3:I:996:TRP:CD2	3:I:1056:PRO:HG2	2.21	0.74
3:N:1326:THR:HG22	3:N:1327:ARG:H	1.50	0.74
2:H:537:LYS:HG3	2:H:545:ASN:OD1	1.87	0.74
2:C:22:GLN:HB3	2:C:121:MET:HE1	1.69	0.74
3:N:465:LEU:HD11	3:N:512:MET:HB2	1.68	0.74
3:I:1063:GLU:CD	3:I:1064:GLY:H	1.91	0.74
3:D:1330:ILE:HD13	3:D:1347:TYR:OH	1.87	0.74
3:N:158:TYR:HE1	3:N:452:ILE:HD11	1.53	0.74
2:M:110:GLU:CD	2:M:369:PRO:HB3	2.06	0.74
3:I:28:LYS:CD	3:I:29:PRO:HD2	2.17	0.74
2:M:1004:LYS:CG	3:N:630:VAL:HG23	2.14	0.74
2:C:304:LEU:HD23	2:C:305:PRO:HD3	1.68	0.74
3:N:26:VAL:HG13	3:N:43:GLY:O	1.87	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:686:GLU:HA	3:N:689:ASP:OD2	1.88	0.74
1:B:44:LEU:HA	1:B:48:ILE:HD11	1.68	0.74
3:N:166:GLN:NE2	3:N:394:LEU:HB2	1.99	0.74
3:N:875:THR:CG2	3:N:879:ARG:HB2	2.18	0.74
1:A:156:HIS:HD2	1:A:157:GLY:N	1.83	0.74
3:I:507:ASN:ND2	3:I:507:ASN:H	1.73	0.74
3:D:1114:THR:HG21	3:D:1195:GLN:HB3	1.69	0.74
2:H:535:SER:O	2:H:538:GLN:HG2	1.88	0.74
1:K:67:THR:HG21	2:M:627:ARG:HD2	1.68	0.74
3:N:729:HIS:HD2	3:N:731:LEU:N	1.86	0.74
2:M:905:ILE:HD12	2:M:905:ILE:N	2.00	0.74
3:I:465:LEU:HD21	3:I:509:PRO:HB2	1.68	0.74
1:F:46:SER:HB3	2:H:856:GLU:CD	2.07	0.74
2:C:437:ARG:NH2	2:C:488:ALA:HA	2.01	0.74
2:C:432:ARG:NH2	3:D:1047:LYS:HD3	2.02	0.74
3:N:809:PRO:HB2	3:N:812:ALA:CB	2.17	0.74
4:E:48:MET:HB2	4:E:54:LEU:HB2	1.69	0.74
3:I:17:LYS:O	3:I:20:SER:HB3	1.87	0.74
3:N:762:GLN:HE21	4:O:20:THR:HG21	1.52	0.74
3:N:52:PRO:HG3	3:N:78:VAL:HG13	1.69	0.74
2:H:352:ALA:HA	2:H:355:VAL:CG1	2.17	0.74
4:O:70:THR:HG21	4:O:72:ARG:NE	2.02	0.74
2:C:221:LEU:C	2:C:223:ASP:H	1.89	0.74
1:F:86:VAL:HG12	1:F:124:ASN:HB2	1.70	0.74
2:C:154:ARG:HH22	2:C:178:PRO:HD2	1.52	0.74
2:H:140:ILE:HD13	2:H:331:ARG:HH21	1.51	0.74
3:I:793:THR:HG21	3:I:906:GLN:HG2	1.68	0.74
3:N:827:ILE:CD1	3:N:827:ILE:H	1.92	0.74
1:F:206:THR:OG1	1:F:207:PRO:HD2	1.87	0.74
2:H:151:ASP:HB2	2:H:157:ARG:O	1.86	0.74
3:D:980:MET:HB3	3:D:982:PHE:CE2	2.23	0.74
2:M:758:ARG:HB3	2:M:788:THR:O	1.87	0.74
2:M:905:ILE:H	2:M:905:ILE:CD1	2.00	0.74
2:C:158:TYR:CD1	2:C:313:LEU:HD21	2.23	0.74
2:H:302:VAL:O	2:H:305:PRO:HD2	1.88	0.74
4:J:64:ALA:O	4:J:68:LEU:HD13	1.86	0.74
3:D:843:PHE:HE1	3:D:864:VAL:HG11	1.52	0.74
2:M:368:THR:HB	2:M:369:PRO:HD3	1.67	0.74
3:N:119:SER:HB2	3:N:123:LEU:N	2.01	0.74
3:D:1091:SER:HG	5:P:19:DC:H6	1.35	0.74
3:N:1262:LEU:HD23	3:N:1352:ILE:HD13	1.68	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:136:ASP:HB3	3:I:137:PRO:HD3	1.68	0.74
2:M:182:VAL:HG12	2:M:193:LEU:CD2	2.16	0.74
3:D:1389:LEU:O	3:D:1390:LEU:HB2	1.86	0.74
1:K:39:PRO:HG3	1:L:39:PRO:HG2	1.68	0.74
1:L:206:THR:HG23	1:L:208:LEU:H	1.51	0.74
3:D:1448:THR:O	3:D:1452:ILE:HD13	1.88	0.74
3:D:87:ARG:HB2	3:D:524:LEU:CD1	2.17	0.74
3:I:1166:LEU:HD12	3:I:1171:VAL:HG22	1.67	0.74
3:I:701:LEU:HD12	3:I:701:LEU:N	2.03	0.74
2:H:151:ASP:OD1	2:H:154:ARG:HB3	1.87	0.74
2:C:212:GLY:CA	2:C:218:VAL:HG21	2.18	0.74
2:H:261:ILE:HG22	2:H:266:ARG:HH21	1.52	0.74
3:N:127:LEU:HD12	3:N:128:TYR:N	2.02	0.74
2:C:274:ARG:CB	2:C:285:LEU:HD13	2.16	0.74
3:N:1102:THR:HA	3:N:1105:ILE:CD1	2.18	0.74
2:H:1087:VAL:O	2:H:1091:GLU:HG3	1.87	0.74
1:B:20:TYR:HD2	1:B:21:GLY:N	1.84	0.74
7:X:13:GLU:HG2	7:X:17:GLN:NE2	2.03	0.74
2:M:139:GLN:HE22	2:M:415:PRO:HD3	1.53	0.74
1:K:62:LEU:HD23	1:K:163:ASN:ND2	2.03	0.74
1:K:220:GLU:O	1:K:223:THR:HG22	1.86	0.74
2:H:451:LEU:C	2:H:452:ILE:HD12	2.08	0.74
2:C:516:ARG:CZ	3:D:1068:LEU:HD22	2.18	0.74
3:D:1047:LYS:HB3	3:D:1048:PRO:CD	2.18	0.74
2:H:157:ARG:HD3	2:H:314:THR:HG21	1.70	0.74
2:H:1032:PHE:O	2:H:1036:GLU:HB2	1.87	0.74
1:A:41:ARG:HG3	1:A:41:ARG:HH11	1.53	0.74
2:C:474:VAL:HG23	2:C:478:VAL:O	1.85	0.74
7:Y:139:SER:OG	7:Y:148:GLU:HG3	1.88	0.74
3:N:945:SER:OG	3:N:947:ILE:HG13	1.88	0.74
1:B:38:ASN:HB3	1:B:39:PRO:HD3	1.70	0.74
2:M:949:LYS:HD3	3:N:796:ARG:NH2	2.03	0.74
3:D:134:VAL:O	3:D:454:ALA:HB1	1.87	0.74
3:D:792:ILE:O	3:D:878:GLY:HA3	1.88	0.74
3:N:1264:GLU:OE1	3:N:1424:VAL:HG13	1.88	0.74
1:A:58:ILE:HD13	1:A:140:MET:CB	2.17	0.74
1:G:86:VAL:HG12	1:G:124:ASN:ND2	2.02	0.74
3:D:108:VAL:CB	3:D:109:PRO:HD3	2.18	0.74
3:I:145:VAL:HG22	3:I:146:PRO:HD2	1.69	0.74
2:M:432:ARG:NH2	3:N:1047:LYS:HD3	2.03	0.74
3:I:1311:LEU:N	3:I:1311:LEU:HD23	2.03	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:982:PHE:HD2	3:I:982:PHE:C	1.91	0.74
2:M:1019:GLN:HG3	3:N:621:LYS:NZ	2.02	0.74
1:L:94:LEU:HD22	1:L:97:VAL:HG21	1.70	0.74
3:N:581:LEU:HD23	3:N:581:LEU:H	1.53	0.74
2:H:165:LEU:HB3	2:H:265:ARG:HH12	1.50	0.73
1:F:225:PHE:CE2	1:G:25:LEU:HD22	2.23	0.73
2:M:1046:ALA:CB	3:N:1471:LEU:HD11	2.07	0.73
2:H:683:ASN:HA	2:H:687:ALA:HB3	1.68	0.73
2:C:115:LEU:HA	2:C:375:SER:OG	1.87	0.73
2:M:445:GLU:HG3	2:M:560:MET:CE	2.17	0.73
2:M:137:VAL:O	2:M:391:LEU:HD21	1.88	0.73
1:F:117:VAL:HB	1:F:120:VAL:CG1	2.18	0.73
2:M:535:SER:O	2:M:538:GLN:HG2	1.88	0.73
3:D:1402:ALA:HB2	3:D:1415:VAL:CG2	2.18	0.73
2:C:874:LEU:HD21	3:D:787:LEU:CD2	2.18	0.73
3:N:643:GLY:O	3:N:726:ILE:HG23	1.88	0.73
2:M:571:LEU:HD23	2:M:670:GLN:HE21	1.52	0.73
3:I:1369:GLU:O	3:I:1372:VAL:HG12	1.87	0.73
2:H:903:SER:OG	2:H:908:GLY:HA3	1.88	0.73
7:Z:134:VAL:HG22	7:Z:153:ALA:HA	1.68	0.73
3:D:475:LYS:HA	3:D:478:LEU:HG	1.69	0.73
3:D:1171:VAL:O	3:D:1175:ILE:HG13	1.88	0.73
3:D:847:ASP:O	3:D:851:LEU:HG	1.88	0.73
2:H:250:ARG:O	2:H:252:LYS:N	2.17	0.73
3:N:445:ARG:HG2	3:N:445:ARG:HH11	1.52	0.73
3:N:462:GLN:O	3:N:466:LYS:HG3	1.86	0.73
3:I:581:LEU:N	3:I:581:LEU:HD23	2.04	0.73
2:C:98:LEU:H	2:C:98:LEU:HD12	1.53	0.73
2:M:885:ILE:HD12	2:M:885:ILE:N	2.02	0.73
2:H:736:ASP:O	2:H:744:ARG:HG2	1.88	0.73
3:D:1025:GLN:NE2	3:D:1025:GLN:HA	2.02	0.73
3:N:1235:GLN:HB2	7:Z:37:MET:CE	2.11	0.73
2:C:258:TYR:CE2	2:C:290:LEU:HD11	2.23	0.73
3:I:826:PRO:HD2	3:I:829:VAL:HG22	1.69	0.73
3:N:827:ILE:N	3:N:827:ILE:HD12	1.99	0.73
3:N:1211:MET:CG	3:N:1212:ALA:H	1.96	0.73
1:G:58:ILE:HD13	1:G:140:MET:HB3	1.71	0.73
2:C:304:LEU:CG	2:C:305:PRO:HD3	2.19	0.73
3:N:179:VAL:CG1	3:N:183:GLU:HB3	2.19	0.73
1:L:59:GLU:HB2	1:L:137:ARG:NH1	2.02	0.73
3:I:771:SER:HB3	3:I:778:LEU:HD13	1.70	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:513:ILE:HD12	3:N:513:ILE:O	1.88	0.73
3:I:812:ALA:HB1	3:I:816:HIS:CD2	2.24	0.73
3:N:996:TRP:CA	3:N:999:THR:HG22	2.18	0.73
2:M:940:GLU:O	2:M:943:VAL:HG12	1.87	0.73
3:D:95:LEU:HD21	3:D:574:LEU:HD11	1.70	0.73
3:I:1062:ARG:HG3	3:I:1062:ARG:NH1	2.01	0.73
3:D:408:GLU:HG3	3:D:409:VAL:N	2.01	0.73
3:I:554:LEU:O	3:I:558:LEU:HG	1.87	0.73
2:H:890:LEU:HD21	2:H:901:TYR:CG	2.24	0.73
3:I:118:LEU:O	3:I:120:ALA:N	2.21	0.73
4:O:33:HIS:CG	4:O:89:MET:HG2	2.23	0.73
3:D:583:ASP:OD1	3:D:586:ARG:HG2	1.89	0.73
2:H:425:PHE:CZ	3:I:1079:LYS:NZ	2.53	0.73
3:N:793:THR:HG21	3:N:906:GLN:HG2	1.69	0.73
3:D:826:PRO:HD2	3:D:829:VAL:HG22	1.69	0.73
2:M:710:ILE:HG21	2:M:756:VAL:HG11	1.71	0.73
1:K:32:PHE:HZ	1:L:47:SER:HB2	1.53	0.73
1:F:41:ARG:O	1:F:45:LEU:HD13	1.87	0.73
3:D:1452:ILE:H	3:D:1452:ILE:CD1	2.01	0.73
3:D:525:ARG:HG2	3:D:525:ARG:O	1.87	0.73
3:N:571:LYS:O	3:N:574:LEU:HB3	1.88	0.73
2:H:556:ASN:HD22	2:H:556:ASN:C	1.92	0.73
3:I:759:ALA:O	3:I:763:MET:HB3	1.88	0.73
3:N:1147:ARG:HB3	3:N:1188:VAL:HG21	1.71	0.73
3:I:14:SER:O	3:I:18:ILE:HG13	1.88	0.73
3:I:25:GLU:HB2	3:I:92:HIS:CE1	2.24	0.73
2:C:165:LEU:HB3	2:C:265:ARG:CZ	2.19	0.73
3:N:160:GLU:HG2	3:N:165:LYS:HG3	1.70	0.73
3:D:141:ILE:HD13	3:D:142:LEU:O	1.88	0.73
3:D:804:LEU:HD23	3:D:804:LEU:N	2.02	0.73
3:N:704:ARG:NH1	3:N:743:ASP:HB3	2.03	0.73
3:I:1349:VAL:HA	3:I:1368:ILE:HG21	1.70	0.73
2:M:281:LEU:HD11	2:M:305:PRO:C	2.09	0.73
2:M:157:ARG:HD3	2:M:314:THR:HG21	1.70	0.73
3:D:1326:THR:HG22	3:D:1327:ARG:N	2.03	0.73
3:D:160:GLU:OE2	3:D:165:LYS:HD2	1.89	0.73
1:L:56:VAL:HG13	1:L:142:VAL:HG12	1.71	0.73
4:J:59:ASN:HD21	4:J:61:VAL:HG22	1.54	0.73
4:E:41:GLU:O	4:E:45:ARG:HD2	1.89	0.73
3:D:367:ILE:HB	3:D:377:VAL:HG12	1.70	0.73
2:H:110:GLU:HG3	2:H:369:PRO:CB	2.18	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:195:LEU:CG	2:M:238:LEU:HG	2.19	0.73
2:M:885:ILE:CD1	2:M:885:ILE:H	2.01	0.73
3:D:977:ALA:HB1	3:D:983:LEU:HD21	1.70	0.73
1:L:185:ARG:NE	3:N:692:GLU:HG2	2.04	0.73
2:M:710:ILE:HD11	2:M:758:ARG:NE	2.03	0.73
2:M:172:ILE:N	2:M:172:ILE:HD12	2.04	0.73
1:L:73:GLU:OE1	1:L:130:ALA:HA	1.89	0.73
2:H:193:LEU:N	2:H:193:LEU:HD12	2.03	0.73
4:J:54:LEU:HD23	4:J:54:LEU:O	1.88	0.73
3:I:402:PRO:HA	3:I:443:VAL:HG23	1.70	0.73
3:D:101:HIS:ND1	3:D:103:TRP:HB2	2.03	0.73
3:D:52:PRO:O	3:D:86:ARG:HD3	1.88	0.73
2:H:685:GLU:HG3	7:Y:41:ASP:OD1	1.89	0.73
2:C:198:ARG:HD3	2:C:228:ALA:HA	1.70	0.73
2:H:772:ARG:NH1	3:N:484:PRO:HA	2.04	0.73
1:F:206:THR:CG2	1:F:209:GLU:H	2.01	0.73
3:N:683:ILE:HD13	3:N:688:TRP:CH2	2.24	0.73
3:I:567:ILE:HG22	3:I:571:LYS:HE3	1.71	0.73
2:M:86:LYS:HD3	2:M:813:VAL:HB	1.71	0.73
3:D:1093:TYR:CZ	3:D:1097:LYS:CG	2.72	0.72
3:D:1094:LEU:HG	3:D:1098:LEU:CD1	2.19	0.72
3:N:204:LEU:HD11	3:N:441:ARG:HH12	1.53	0.72
1:K:41:ARG:O	1:K:45:LEU:HD13	1.87	0.72
3:I:820:GLU:CG	3:I:836:VAL:HG21	2.18	0.72
3:N:860:LEU:HD22	3:N:878:GLY:HA2	1.70	0.72
3:N:108:VAL:CB	3:N:109:PRO:HD3	2.16	0.72
3:N:481:MET:CE	3:N:493:ARG:HA	2.18	0.72
3:I:1253:THR:HG21	3:I:1261:GLU:OE2	1.89	0.72
2:M:395:LYS:HD3	2:M:397:GLU:OE2	1.89	0.72
2:C:571:LEU:HD11	2:C:701:THR:N	2.04	0.72
3:D:108:VAL:HB	3:D:109:PRO:CD	2.19	0.72
7:Y:13:GLU:HG2	7:Y:17:GLN:NE2	2.04	0.72
3:I:143:ASN:HA	3:I:161:LEU:HD21	1.71	0.72
3:I:982:PHE:CE2	7:Y:119:ILE:HG23	2.24	0.72
3:N:474:GLU:O	3:N:478:LEU:HG	1.89	0.72
2:C:92:ALA:HB2	2:C:120:LEU:HD11	1.71	0.72
3:I:415:VAL:HG13	3:I:419:ASP:HB2	1.71	0.72
2:C:1099:VAL:HG22	3:D:10:ILE:HG12	1.71	0.72
3:I:804:LEU:HD22	3:I:829:VAL:HB	1.71	0.72
3:N:134:VAL:O	3:N:454:ALA:HB1	1.89	0.72
3:N:820:GLU:HG3	3:N:836:VAL:CG2	2.16	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:171:LEU:HD23	3:N:172:PRO:HD2	1.71	0.72
2:M:199:VAL:HG13	2:M:235:LEU:HG	1.70	0.72
2:M:267:TYR:CB	2:M:272:ALA:HB1	2.18	0.72
3:D:1387:SER:HB3	3:D:1391:GLU:OE2	1.88	0.72
3:I:1319:VAL:HA	3:I:1323:GLN:HE22	1.53	0.72
2:C:442:GLU:HG2	2:C:454:SER:HB2	1.69	0.72
2:C:25:SER:OG	2:C:335:THR:HB	1.89	0.72
3:N:215:TYR:HB2	3:N:381:ALA:O	1.89	0.72
2:C:1040:LEU:HD21	2:C:1048:THR:HG22	1.71	0.72
2:H:177:GLU:OE1	2:H:179:ASN:HB3	1.89	0.72
3:N:135:LEU:HD11	3:N:137:PRO:O	1.89	0.72
3:D:1123:PHE:CE2	3:D:1184:GLN:HG3	2.24	0.72
2:H:556:ASN:ND2	2:H:557:ARG:N	2.36	0.72
2:M:191:PHE:CZ	2:M:196:LEU:HB2	2.25	0.72
2:M:212:GLY:HA2	2:M:218:VAL:HG21	1.71	0.72
2:H:644:VAL:HG22	2:H:647:GLN:OE1	1.89	0.72
3:I:160:GLU:HG2	3:I:165:LYS:HB2	1.71	0.72
3:D:661:MET:O	3:D:664:LYS:O	2.07	0.72
3:I:720:LEU:N	3:I:720:LEU:HD12	2.03	0.72
2:M:654:LEU:HD23	2:M:654:LEU:H	1.54	0.72
3:D:198:ARG:HG3	3:D:198:ARG:HH11	1.54	0.72
2:H:480:THR:HG22	2:H:481:ASP:H	1.52	0.72
3:N:1029:ARG:NH2	7:Z:41:ASP:OD2	2.22	0.72
3:D:861:GLN:H	3:D:861:GLN:NE2	1.87	0.72
3:D:728:LEU:HD12	3:D:729:HIS:N	2.03	0.72
1:B:206:THR:HG23	1:B:208:LEU:N	2.04	0.72
3:N:762:GLN:NE2	4:O:20:THR:HG21	2.04	0.72
1:F:20:TYR:HE2	1:F:198:ARG:HB2	1.52	0.72
3:N:661:MET:O	3:N:664:LYS:O	2.08	0.72
3:I:1299:PHE:N	3:I:1299:PHE:HD2	1.87	0.72
1:L:179:PHE:HD2	1:L:179:PHE:H	1.35	0.72
1:L:132:LEU:HD23	1:L:136:GLY:O	1.90	0.72
2:M:374:ASN:ND2	2:M:376:ARG:HB2	2.04	0.72
3:D:1352:ILE:HG21	3:D:1368:ILE:CD1	2.18	0.72
2:C:239:PHE:CZ	2:C:252:LYS:CA	2.66	0.72
3:N:1263:PHE:HB3	3:N:1424:VAL:HG11	1.69	0.72
2:C:110:GLU:HG3	2:C:369:PRO:CB	2.19	0.72
2:M:25:SER:OG	2:M:335:THR:HB	1.89	0.72
2:M:160:ALA:HB3	2:M:174:LEU:HB2	1.70	0.72
2:M:165:LEU:HB3	2:M:265:ARG:HH12	1.52	0.72
2:H:1001:VAL:HB	3:I:724:GLN:CD	2.08	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1273:VAL:HG22	3:D:1326:THR:OG1	1.89	0.72
3:I:1465:ASN:HA	3:I:1468:LEU:CD1	2.20	0.72
3:I:160:GLU:HA	3:I:165:LYS:HB2	1.70	0.72
1:B:197:LEU:HD23	1:B:197:LEU:O	1.89	0.72
3:N:353:VAL:HA	3:N:368:VAL:HG22	1.70	0.72
3:N:1112:CYS:SG	3:N:1195:GLN:HG2	2.29	0.72
3:I:919:PHE:HE1	3:I:924:MET:HG3	1.53	0.72
3:N:820:GLU:CG	3:N:836:VAL:HG21	2.18	0.72
2:H:1101:THR:HG21	2:H:1111:ILE:CG2	2.20	0.72
2:H:1049:LEU:HD23	3:I:1472:ILE:CD1	2.19	0.72
3:N:970:LYS:HA	3:N:973:GLN:NE2	2.05	0.72
3:I:1129:THR:HG23	3:I:1130:ARG:N	2.04	0.72
3:N:62:LYS:HA	3:N:62:LYS:HE2	1.70	0.72
1:B:59:GLU:OE2	1:B:139:ASN:HB3	1.90	0.72
3:D:675:ARG:O	3:D:678:GLU:HG2	1.88	0.72
3:N:983:LEU:CD2	3:N:983:LEU:H	1.97	0.72
3:I:800:LYS:CG	3:I:801:GLY:H	2.01	0.72
3:N:458:ALA:HB2	3:N:575:GLN:HE22	1.53	0.72
3:N:1263:PHE:CE2	3:N:1371:VAL:HG11	2.21	0.72
3:N:1372:VAL:HA	3:N:1375:MET:HE3	1.71	0.72
1:G:58:ILE:HD13	1:G:140:MET:CB	2.20	0.72
3:N:1266:ARG:O	3:N:1268:PRO:HD3	1.90	0.72
1:A:156:HIS:CD2	1:A:157:GLY:N	2.55	0.72
3:D:1189:ARG:HD2	3:D:1204:CYS:SG	2.29	0.72
1:B:25:LEU:O	1:B:28:LEU:HD21	1.89	0.72
2:H:221:LEU:C	2:H:223:ASP:H	1.91	0.72
3:D:1087:ARG:HG2	3:D:1234:THR:O	1.90	0.72
3:I:108:VAL:CB	3:I:109:PRO:HD3	2.08	0.72
3:N:152:LEU:O	3:N:152:LEU:HD12	1.89	0.72
3:N:1362:LYS:HD2	7:Z:34:GLN:HE22	1.54	0.72
3:N:1253:THR:HG22	3:N:1261:GLU:OE2	1.89	0.72
3:I:1037:GLN:HG2	3:I:1042:ARG:HB3	1.72	0.72
3:I:1042:ARG:O	3:I:1057:VAL:HB	1.90	0.72
1:L:75:VAL:O	1:L:79:ILE:HG23	1.89	0.72
3:D:868:TYR:CE1	3:D:869:MET:HG3	2.24	0.72
2:M:905:ILE:HD12	2:M:905:ILE:H	1.54	0.72
3:N:583:ASP:OD2	3:N:604:THR:HG21	1.90	0.72
1:K:206:THR:HG22	1:K:209:GLU:H	1.54	0.72
3:N:141:ILE:HG22	3:N:162:ARG:HH11	1.51	0.72
3:D:804:LEU:CD1	3:D:830:ALA:O	2.36	0.72
2:M:22:GLN:NE2	2:M:336:VAL:CG2	2.53	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:480:GLU:O	3:I:484:PRO:HD2	1.90	0.72
2:C:1006:HIS:ND1	2:C:1027:PHE:CD1	2.57	0.72
2:M:879:ARG:HB2	2:M:881:ASN:HD21	1.54	0.72
3:N:1403:LEU:O	3:N:1407:LEU:HB2	1.90	0.72
2:M:524:VAL:HG12	2:M:525:SER:N	2.05	0.72
3:N:988:ARG:O	3:N:992:ILE:HG13	1.90	0.72
2:H:627:ARG:O	2:H:638:ASP:HB3	1.89	0.72
4:J:54:LEU:CD2	4:J:58:PRO:HG2	2.18	0.72
3:N:1105:ILE:HD12	3:N:1105:ILE:N	2.05	0.72
2:M:338:GLU:HA	2:M:341:THR:CG2	2.19	0.72
2:H:1018:GLN:NE2	2:H:1018:GLN:HA	2.05	0.72
1:G:86:VAL:HG12	1:G:124:ASN:HD22	1.53	0.72
2:H:408:ARG:HH21	2:H:455:LEU:HD11	1.55	0.72
3:I:1369:GLU:HA	3:I:1372:VAL:HG12	1.71	0.72
4:J:32:ARG:HB2	4:J:32:ARG:HH11	1.54	0.72
3:D:982:PHE:N	3:D:982:PHE:HD2	1.88	0.72
2:H:436:GLY:HA2	2:H:538:GLN:O	1.90	0.72
3:I:1065:LEU:HD11	3:I:1069:GLU:HB3	1.71	0.72
2:H:893:ALA:HB1	2:H:897:LEU:CD1	2.19	0.72
3:N:603:LEU:O	3:N:606:ILE:HG22	1.90	0.72
2:C:1103:ASP:OD2	3:D:2:LYS:HA	1.90	0.72
2:H:1034:GLU:HG3	2:H:1038:TRP:CZ2	2.25	0.72
3:D:1080:GLY:CA	7:X:49:GLU:HG3	2.20	0.72
3:D:656:PHE:HB3	3:D:694:VAL:HG11	1.72	0.72
2:H:172:ILE:HG13	2:H:186:VAL:HG12	1.72	0.72
3:D:501:ALA:CB	3:D:1453:ALA:HB2	2.20	0.71
1:K:206:THR:CG2	1:K:209:GLU:H	2.02	0.71
3:I:807:ALA:HA	3:I:833:GLU:CG	2.18	0.71
1:A:42:ARG:HH12	1:B:34:VAL:CB	1.93	0.71
3:D:704:ARG:HD3	3:D:738:ALA:HB2	1.72	0.71
3:I:133:ILE:O	3:I:152:LEU:CB	2.38	0.71
3:I:1433:SER:OG	3:I:1457:ASP:OD2	2.07	0.71
3:D:1128:VAL:O	3:D:1129:THR:CG2	2.37	0.71
2:C:1027:PHE:CD2	2:C:1027:PHE:N	2.53	0.71
3:N:8:VAL:HG23	3:N:1459:LEU:HD11	1.71	0.71
1:G:95:GLN:HE21	1:G:95:GLN:H	1.38	0.71
2:C:1043:TYR:HA	3:D:710:ARG:HH11	1.55	0.71
2:H:266:ARG:HA	2:H:288:ARG:CD	2.20	0.71
7:Z:128:ALA:HB2	7:Z:140:LEU:HD21	1.71	0.71
3:D:806:PHE:CZ	3:D:813:LEU:HB3	2.25	0.71
3:I:798:GLU:HG3	3:I:828:LYS:HE3	1.70	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:300:ASP:C	2:M:302:VAL:H	1.93	0.71
3:D:118:LEU:O	3:D:120:ALA:N	2.23	0.71
2:M:140:ILE:HD12	2:M:140:ILE:O	1.89	0.71
2:C:56:GLU:HB2	2:C:64:LEU:HD23	1.73	0.71
7:Y:17:GLN:O	7:Y:21:ARG:HD3	1.90	0.71
3:N:96:ALA:CB	3:N:554:LEU:HD23	2.20	0.71
7:X:84:GLY:HA2	7:X:130:LEU:HD11	1.72	0.71
2:M:504:GLU:HG3	2:M:504:GLU:O	1.90	0.71
2:H:236:ILE:HD11	2:H:249:LYS:NZ	2.05	0.71
2:C:874:LEU:O	3:D:1029:ARG:HD2	1.89	0.71
2:C:300:ASP:C	2:C:302:VAL:H	1.94	0.71
2:C:1032:PHE:O	2:C:1033:GLY:O	2.07	0.71
3:I:834:THR:HB	3:I:838:ARG:HD3	1.71	0.71
3:D:58:CYS:HB2	3:D:78:VAL:HB	1.70	0.71
3:N:1000:THR:O	3:N:1003:VAL:HG12	1.90	0.71
3:I:139:GLY:O	3:I:147:VAL:HB	1.90	0.71
3:N:1097:LYS:HA	3:N:1100:ASP:HB2	1.73	0.71
1:G:185:ARG:HH22	3:I:692:GLU:HB3	1.55	0.71
2:H:352:ALA:HA	2:H:355:VAL:HG12	1.70	0.71
3:N:638:LYS:N	3:N:641:GLN:OE1	2.22	0.71
3:N:642:CYS:SG	3:N:716:PHE:HB2	2.29	0.71
2:M:946:ARG:CD	2:M:984:GLU:HB2	2.21	0.71
1:F:72:LYS:HE3	2:H:641:PRO:O	1.90	0.71
2:H:1020:PRO:HD2	3:I:622:ARG:HB2	1.72	0.71
3:D:1211:MET:CG	3:D:1212:ALA:H	1.98	0.71
3:N:1235:GLN:NE2	7:Z:37:MET:HG2	1.99	0.71
2:C:1035:MET:HG2	3:D:707:THR:O	1.90	0.71
3:N:127:LEU:CD2	3:N:134:VAL:HG21	2.20	0.71
3:D:860:LEU:O	3:D:877:PRO:HD2	1.89	0.71
2:H:1004:LYS:HG2	3:I:630:VAL:HG23	1.71	0.71
3:I:661:MET:O	3:I:664:LYS:O	2.08	0.71
2:M:726:ILE:HG12	2:M:734:LEU:HD11	1.72	0.71
2:H:1036:GLU:HG3	3:I:707:THR:OG1	1.89	0.71
2:C:367:LEU:HB3	2:C:371:LYS:CE	2.20	0.71
1:F:117:VAL:HB	1:F:120:VAL:HG13	1.71	0.71
2:H:137:VAL:O	2:H:391:LEU:HD21	1.90	0.71
2:H:630:ARG:HD3	2:H:705:ILE:HB	1.72	0.71
2:H:300:ASP:C	2:H:302:VAL:H	1.93	0.71
3:D:1094:LEU:HG	3:D:1098:LEU:CD2	2.21	0.71
1:F:9:PRO:HD2	1:G:224:TYR:CD1	2.24	0.71
3:I:875:THR:HG22	3:I:876:SER:H	1.54	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:95:LEU:HD23	3:N:551:ASN:OD1	1.89	0.71
3:D:139:GLY:HA3	3:D:162:ARG:NH2	2.04	0.71
2:C:182:VAL:CG1	2:C:193:LEU:HD22	2.21	0.71
3:I:1047:LYS:HB3	3:I:1048:PRO:HD3	1.71	0.71
2:M:988:VAL:HG11	3:N:949:ILE:O	1.90	0.71
3:I:984:THR:HG22	3:I:987:GLU:CG	2.20	0.71
2:C:1056:LYS:HD3	3:D:623:VAL:CG1	2.20	0.71
2:H:1032:PHE:O	2:H:1033:GLY:O	2.09	0.71
2:H:928:LYS:NZ	2:H:932:GLU:HG2	2.05	0.71
3:D:1291:SER:HB2	3:D:1293:PHE:HE1	1.54	0.71
3:D:400:VAL:HG22	3:D:443:VAL:HG21	1.71	0.71
2:H:191:PHE:CE2	2:H:195:LEU:HB3	2.26	0.71
2:H:281:LEU:HG	2:H:282:GLY:H	1.54	0.71
2:C:1085:PHE:CD2	3:D:1468:LEU:HG	2.26	0.71
3:D:52:PRO:N	3:D:86:ARG:HD3	2.04	0.71
3:N:154:THR:HG21	3:N:157:GLU:OE2	1.91	0.71
3:N:780:LYS:NZ	7:Z:38:GLU:OE1	2.23	0.71
2:H:1061:GLU:OE2	3:I:84:ILE:CG2	2.39	0.71
2:M:861:LEU:HB3	2:M:865:THR:HG23	1.71	0.71
2:C:831:ARG:HH12	2:C:1002:GLU:HB2	1.54	0.71
1:K:184:THR:HG21	1:K:192:LEU:HD12	1.72	0.71
2:H:1088:LEU:CD2	2:H:1092:LEU:HD12	2.20	0.71
3:D:54:LYS:HD2	3:D:55:ASP:H	1.54	0.71
3:D:57:GLU:HB2	3:D:64:LYS:HG3	1.71	0.71
1:K:39:PRO:O	1:K:43:ILE:HG12	1.90	0.71
1:L:133:GLU:HG3	1:L:134:GLU:H	1.56	0.71
2:C:73:LEU:HB2	2:C:93:PRO:O	1.90	0.71
1:F:108:GLU:OE1	1:F:131:THR:HG22	1.91	0.71
3:D:907:GLU:HG2	3:D:908:LYS:N	2.05	0.71
3:D:355:VAL:HG11	3:D:385:VAL:HG21	1.73	0.71
2:M:981:GLU:HG3	2:M:982:PRO:HD2	1.71	0.71
2:H:134:ARG:HB3	2:H:393:GLN:O	1.90	0.71
3:N:118:LEU:O	3:N:120:ALA:N	2.22	0.71
3:D:96:ALA:HB3	3:D:554:LEU:HD23	1.72	0.71
1:K:54:THR:CG2	1:K:158:ILE:HG13	2.21	0.71
3:N:581:LEU:HD23	3:N:581:LEU:N	2.06	0.71
3:D:421:LEU:HD22	3:D:444:VAL:HG11	1.73	0.71
2:H:445:GLU:HG3	2:H:560:MET:CE	2.21	0.71
3:N:1223:ILE:HG22	3:N:1227:GLN:NE2	2.06	0.71
2:H:500:ASN:ND2	2:H:500:ASN:N	2.36	0.71
2:M:430:VAL:HG21	2:M:440:PRO:HB3	1.71	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:211:LEU:HD21	2:H:221:LEU:CD2	2.21	0.71
1:F:46:SER:HB3	2:H:856:GLU:HG2	1.72	0.71
3:N:141:ILE:H	3:N:162:ARG:HH12	1.38	0.71
2:M:976:ASP:HB3	2:M:979:THR:HG22	1.72	0.71
3:N:28:LYS:CD	3:N:29:PRO:HD2	2.17	0.71
2:H:565:GLN:HE21	2:H:842:ARG:HG2	1.54	0.71
1:G:86:VAL:HG12	1:G:124:ASN:CB	2.17	0.71
2:H:498:GLN:HA	2:H:498:GLN:NE2	2.04	0.71
3:N:967:ALA:O	3:N:970:LYS:HB3	1.90	0.71
3:I:1109:GLU:HG3	3:I:1217:ILE:HD12	1.71	0.71
3:N:692:GLU:OE1	3:N:720:LEU:HD13	1.90	0.71
2:C:89:THR:O	2:C:91:GLN:HG3	1.91	0.71
2:H:580:MET:HB3	2:H:584:GLU:CD	2.11	0.71
3:N:465:LEU:HD13	3:N:510:GLU:HA	1.73	0.71
1:K:14:ARG:HH22	1:K:24:VAL:CG2	2.03	0.71
3:D:1093:TYR:CZ	3:D:1097:LYS:HE3	2.16	0.71
2:C:496:ILE:HD12	2:C:496:ILE:N	2.05	0.71
2:H:983:ILE:HD12	3:I:944:THR:HA	1.73	0.71
3:N:1099:VAL:O	3:N:1103:HIS:HB3	1.91	0.71
3:N:862:ASP:O	3:N:877:PRO:HD3	1.91	0.71
3:N:1098:LEU:CD2	3:N:1229:ILE:HB	2.21	0.71
7:Y:102:VAL:HG21	7:Y:125:MET:HE3	1.70	0.71
2:H:89:THR:O	2:H:91:GLN:HG3	1.89	0.71
2:H:958:THR:HG23	2:H:961:GLU:HG3	1.73	0.71
3:I:465:LEU:HD22	3:I:510:GLU:HA	1.73	0.71
2:M:139:GLN:HE22	2:M:415:PRO:CD	2.04	0.71
2:M:967:PHE:HD1	2:M:972:VAL:HG12	1.54	0.71
2:C:139:GLN:HE22	2:C:415:PRO:HD3	1.55	0.71
2:M:1032:PHE:O	2:M:1033:GLY:O	2.08	0.71
3:I:1003:VAL:O	3:I:1007:VAL:HG23	1.91	0.71
3:I:806:PHE:CZ	3:I:813:LEU:HB3	2.26	0.71
3:D:795:VAL:CG2	3:D:879:ARG:HH12	2.03	0.71
1:F:56:VAL:HG22	1:F:142:VAL:HG12	1.72	0.71
1:F:25:LEU:HD22	1:G:225:PHE:CE2	2.25	0.71
1:L:87:VAL:HG21	1:L:144:VAL:HG11	1.73	0.71
2:H:261:ILE:HD12	2:H:261:ILE:H	1.55	0.70
3:N:139:GLY:O	3:N:162:ARG:NH2	2.24	0.70
1:K:58:ILE:CD1	1:K:140:MET:HB3	2.17	0.70
2:C:549:PHE:CD2	2:C:886:LEU:HB3	2.26	0.70
3:I:1225:ALA:O	3:I:1229:ILE:HG13	1.91	0.70
3:I:1472:ILE:O	3:I:1477:GLY:HA3	1.91	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1014:SER:HB2	2:C:1021:LEU:HD13	1.73	0.70
3:N:654:LYS:HB3	3:N:655:PRO:HD3	1.72	0.70
3:N:701:LEU:HD12	3:N:701:LEU:N	2.06	0.70
3:D:1025:GLN:HE21	3:D:1025:GLN:HA	1.56	0.70
3:I:1299:PHE:N	3:I:1299:PHE:CD2	2.58	0.70
1:B:54:THR:O	1:B:167:VAL:HG23	1.91	0.70
2:C:555:ALA:HA	3:D:1070:TYR:OH	1.91	0.70
3:N:141:ILE:HG13	3:N:448:GLU:CD	2.11	0.70
3:D:100:ALA:HB2	3:D:128:TYR:OH	1.91	0.70
2:C:218:VAL:HG23	2:C:311:PHE:HE1	1.57	0.70
3:I:1093:TYR:O	3:I:1096:ARG:HB2	1.90	0.70
2:C:742:VAL:HG12	2:C:743:VAL:N	2.06	0.70
1:L:154:GLU:OE2	3:N:840:LYS:HE2	1.91	0.70
2:H:282:GLY:C	2:H:283:ILE:HG13	2.10	0.70
3:N:875:THR:HG22	3:N:876:SER:N	2.05	0.70
3:I:817:GLU:O	3:I:821:VAL:HG23	1.91	0.70
2:M:264:PRO:HB3	2:M:289:THR:CG2	2.21	0.70
2:H:836:GLY:CA	2:H:1001:VAL:HG21	2.21	0.70
2:M:937:ASP:O	2:M:941:VAL:HG23	1.90	0.70
3:I:167:GLU:OE2	3:I:169:TYR:HE1	1.74	0.70
3:N:1292:VAL:HG23	3:N:1305:LEU:HG	1.71	0.70
2:M:854:PRO:HG2	2:M:857:ASP:OD2	1.91	0.70
1:K:64:GLU:O	1:K:75:VAL:HB	1.92	0.70
2:C:498:GLN:HE21	2:C:498:GLN:HA	1.54	0.70
2:H:697:ARG:HD2	2:H:699:PHE:CE1	2.26	0.70
3:D:1344:VAL:O	3:D:1348:LEU:HD13	1.90	0.70
3:D:1045:MET:O	3:D:1053:PHE:HB2	1.91	0.70
2:H:687:ALA:C	2:H:688:ILE:HD12	2.11	0.70
2:M:200:LEU:HD13	2:M:300:ASP:OD1	1.91	0.70
3:I:1109:GLU:HG2	3:I:1202:GLN:H	1.57	0.70
2:H:6:PHE:HZ	2:H:901:TYR:HD2	1.38	0.70
1:B:26:GLU:HB2	1:B:27:PRO:HA	1.72	0.70
7:Y:115:THR:CB	7:Y:116:PRO:HD3	2.20	0.70
3:D:365:ASP:O	3:D:379:ALA:HB2	1.90	0.70
2:M:6:PHE:CE1	2:M:901:TYR:HB3	2.26	0.70
7:Z:73:VAL:O	7:Z:74:ILE:HD13	1.90	0.70
2:H:165:LEU:HD12	2:H:166:PRO:C	2.10	0.70
2:C:290:LEU:H	2:C:290:LEU:HD23	1.55	0.70
2:H:858:MET:CG	2:H:859:PRO:HD2	2.20	0.70
2:M:110:GLU:HB2	2:M:368:THR:HG22	1.73	0.70
2:C:52:PHE:CD2	2:C:68:PHE:HB2	2.26	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:976:ASP:CB	2:M:979:THR:HG22	2.19	0.70
2:M:221:LEU:C	2:M:223:ASP:H	1.93	0.70
2:C:21:ILE:CD1	2:C:21:ILE:H	2.04	0.70
3:D:482:LYS:HE2	3:D:1388:ARG:NH2	2.06	0.70
3:I:8:VAL:HG23	3:I:1459:LEU:HD11	1.72	0.70
2:C:374:ASN:ND2	2:C:374:ASN:O	2.24	0.70
2:H:572:ILE:HG13	2:H:573:ARG:N	2.06	0.70
1:K:38:ASN:HB3	1:K:39:PRO:HD3	1.73	0.70
3:D:149:LYS:H	3:D:149:LYS:CE	2.03	0.70
3:I:679:ARG:HG2	3:I:681:ARG:HG3	1.73	0.70
3:N:140:ALA:HB3	3:N:450:TYR:HE2	1.56	0.70
2:M:687:ALA:C	2:M:688:ILE:HD12	2.11	0.70
2:C:850:ALA:HA	3:D:632:VAL:CG1	2.22	0.70
3:D:1205:TYR:OH	3:D:1367:HIS:HE1	1.74	0.70
3:N:171:LEU:HB2	3:N:391:ALA:O	1.92	0.70
2:C:112:GLU:OE1	2:C:112:GLU:HA	1.92	0.70
2:M:95:TYR:CD2	2:M:114:PHE:HB2	2.27	0.70
2:M:95:TYR:HD1	2:M:95:TYR:N	1.88	0.70
2:H:116:GLY:HA2	2:H:379:GLU:OE1	1.91	0.70
1:K:218:LEU:CD2	1:L:222:LEU:HD21	2.21	0.70
2:H:524:VAL:CG1	2:H:528:GLU:HB2	2.22	0.70
2:M:30:LEU:O	2:M:32:ALA:N	2.24	0.70
2:C:436:GLY:HA2	2:C:538:GLN:O	1.91	0.70
2:M:910:LYS:O	2:M:914:ILE:HG12	1.91	0.70
2:H:199:VAL:HG13	2:H:235:LEU:CD2	2.22	0.70
3:D:1349:VAL:HA	3:D:1368:ILE:CG2	2.20	0.70
2:C:1035:MET:HA	2:C:1038:TRP:CE3	2.26	0.70
2:H:556:ASN:HD22	2:H:557:ARG:N	1.89	0.70
3:N:1102:THR:CA	3:N:1105:ILE:HD13	2.22	0.70
3:D:367:ILE:HG22	3:D:368:VAL:HG23	1.72	0.70
4:E:54:LEU:CD2	4:E:58:PRO:HG3	2.21	0.70
2:H:432:ARG:NH2	3:I:1047:LYS:HD3	2.07	0.70
7:Y:84:GLY:HA2	7:Y:130:LEU:CD1	2.21	0.70
2:M:462:ASP:HB3	2:M:468:ARG:HD2	1.73	0.70
2:C:660:ALA:HB1	2:C:667:ALA:O	1.92	0.70
2:C:861:LEU:HG	2:C:862:PRO:CD	2.16	0.70
2:C:144:PRO:CG	2:C:265:ARG:NH1	2.52	0.70
3:D:141:ILE:HD13	3:D:142:LEU:N	2.06	0.70
3:D:631:ILE:HD13	3:D:631:ILE:O	1.91	0.70
2:H:383:ARG:HH11	2:H:383:ARG:CB	2.02	0.70
2:M:165:LEU:O	2:M:265:ARG:HD2	1.91	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:101:HIS:ND1	3:N:103:TRP:HB2	2.06	0.70
2:C:720:GLU:HA	2:C:759:THR:O	1.92	0.70
2:H:893:ALA:O	2:H:897:LEU:HG	1.92	0.70
3:D:996:TRP:CD2	3:D:1056:PRO:HG2	2.26	0.70
2:M:134:ARG:HB3	2:M:393:GLN:O	1.91	0.70
2:C:39:ARG:HD2	2:C:39:ARG:H	1.56	0.70
2:H:207:LEU:CD2	2:H:211:LEU:HD23	2.22	0.70
4:J:9:LEU:HB3	4:J:19:LEU:HD21	1.72	0.70
2:C:455:LEU:HD12	2:C:455:LEU:C	2.12	0.70
2:C:1060:ILE:HG21	3:D:87:ARG:HH22	1.56	0.70
2:H:557:ARG:HG2	2:H:881:ASN:ND2	2.06	0.70
3:D:706:PRO:HG3	6:Q:10:G:H22	1.57	0.70
3:D:642:CYS:HB3	3:D:716:PHE:CB	2.21	0.70
2:M:597:ALA:HA	2:M:655:LEU:HD11	1.74	0.70
2:M:391:LEU:O	2:M:391:LEU:HD23	1.92	0.70
1:L:170:VAL:HG11	3:N:848:GLU:OE2	1.91	0.70
3:N:1161:GLU:OE2	3:N:1164:ARG:HD2	1.92	0.70
3:N:1274:ILE:HD11	3:N:1334:GLN:HB3	1.73	0.70
3:D:1468:LEU:HD22	3:D:1470:ARG:CB	2.19	0.70
3:N:908:LYS:CB	3:N:1027:GLY:HA3	2.15	0.70
3:D:736:PHE:O	3:D:738:ALA:N	2.25	0.70
2:C:98:LEU:HD11	2:C:113:VAL:HG23	1.74	0.70
2:M:831:ARG:HH12	2:M:1002:GLU:CB	2.05	0.70
3:D:481:MET:SD	3:D:1388:ARG:HG2	2.32	0.70
2:C:344:PHE:CE2	2:C:378:LEU:HD21	2.25	0.70
3:I:153:LEU:CD1	3:I:158:TYR:HB2	2.21	0.70
3:D:157:GLU:O	3:D:161:LEU:N	2.23	0.70
3:N:664:LYS:O	3:N:666:ILE:N	2.25	0.70
2:C:126:SER:HB2	2:C:395:LYS:HZ2	1.57	0.70
1:L:81:ASN:ND2	1:L:128:HIS:O	2.24	0.70
3:N:140:ALA:CB	3:N:450:TYR:HE2	2.05	0.70
2:M:683:ASN:HA	2:M:687:ALA:HB3	1.74	0.70
2:H:675:ALA:HB2	2:H:867:VAL:HG11	1.73	0.70
4:O:73:LEU:H	4:O:73:LEU:HD12	1.54	0.70
2:H:25:SER:OG	2:H:335:THR:HB	1.92	0.70
2:C:524:VAL:HG12	2:C:525:SER:N	2.07	0.70
2:C:497:ALA:HA	2:C:515:ALA:HA	1.74	0.69
1:F:9:PRO:HB2	1:G:224:TYR:HB3	1.73	0.69
3:N:98:PRO:HG2	3:N:462:GLN:HE22	1.53	0.69
3:N:792:ILE:O	3:N:878:GLY:HA3	1.90	0.69
2:M:1034:GLU:HA	2:M:1037:VAL:HG23	1.74	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:77:GLU:HB2	3:N:872:ARG:HH21	1.57	0.69
1:A:132:LEU:HD23	1:A:136:GLY:O	1.92	0.69
2:H:516:ARG:CZ	3:I:1068:LEU:HD22	2.21	0.69
3:I:63:TYR:HB3	3:I:68:PHE:CE1	2.27	0.69
2:M:462:ASP:HB2	2:M:468:ARG:HH11	1.56	0.69
1:L:228:PRO:O	1:L:229:GLN:HG3	1.91	0.69
3:I:902:LEU:H	3:I:902:LEU:HD23	1.56	0.69
1:G:44:LEU:HD23	1:G:48:ILE:HD11	1.72	0.69
2:H:9:ILE:HG13	2:H:9:ILE:O	1.91	0.69
2:C:274:ARG:HD2	2:C:285:LEU:CD2	2.22	0.69
2:H:1101:THR:HG21	2:H:1111:ILE:HG21	1.74	0.69
3:I:89:ARG:O	3:I:521:PRO:HG3	1.92	0.69
3:I:982:PHE:HB2	7:Y:125:MET:SD	2.32	0.69
2:H:958:THR:HG23	2:H:961:GLU:HG2	1.73	0.69
1:L:161:ARG:HG3	1:L:161:ARG:HH11	1.56	0.69
3:I:465:LEU:HD11	3:I:512:MET:HB2	1.72	0.69
2:C:754:ILE:N	2:C:754:ILE:HD12	2.07	0.69
2:H:200:LEU:CD2	2:H:298:PHE:HB2	2.22	0.69
3:D:785:ILE:HD12	3:D:785:ILE:N	1.98	0.69
2:M:368:THR:HB	2:M:369:PRO:CD	2.22	0.69
3:I:159:ARG:NH2	2:M:212:GLY:O	2.23	0.69
3:D:957:PRO:CG	3:D:1007:VAL:HG22	2.21	0.69
3:I:688:TRP:CE3	3:I:688:TRP:HA	2.26	0.69
1:G:81:ASN:ND2	1:G:128:HIS:O	2.25	0.69
2:M:946:ARG:HB3	2:M:946:ARG:HH11	1.57	0.69
3:N:1399:ASP:O	3:N:1403:LEU:HB2	1.92	0.69
3:I:1080:GLY:CA	7:Y:49:GLU:HG3	2.22	0.69
1:K:213:GLN:O	1:K:217:ILE:HG12	1.91	0.69
2:C:333:ILE:HG13	2:C:410:ILE:HD11	1.73	0.69
3:I:810:GLU:O	3:I:813:LEU:HG	1.92	0.69
1:L:74:ASP:HB2	3:N:872:ARG:NH2	2.06	0.69
1:G:185:ARG:HH22	3:I:692:GLU:CB	2.05	0.69
2:C:1027:PHE:N	2:C:1027:PHE:HD2	1.89	0.69
2:H:30:LEU:O	2:H:32:ALA:N	2.26	0.69
2:H:791:ARG:O	2:H:793:PRO:HD3	1.91	0.69
3:D:1101:VAL:HG23	3:D:1102:THR:HG23	1.75	0.69
3:I:204:LEU:HB2	3:I:394:LEU:HG	1.74	0.69
3:I:804:LEU:HG	3:I:831:GLY:HA3	1.73	0.69
3:N:1216:SER:OG	4:O:16:LYS:HB2	1.92	0.69
3:I:87:ARG:HE	3:I:88:TYR:HE2	1.41	0.69
3:I:956:ILE:HG12	3:I:1039:CYS:O	1.93	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:1253:THR:HG23	3:I:1258:ARG:CD	2.21	0.69
3:D:1311:LEU:HD23	3:D:1311:LEU:N	2.07	0.69
1:L:86:VAL:HG12	1:L:124:ASN:CB	2.23	0.69
4:E:36:LYS:HZ2	4:E:36:LYS:HA	1.56	0.69
3:I:664:LYS:O	3:I:666:ILE:N	2.25	0.69
2:C:799:ILE:N	2:C:799:ILE:HD13	2.06	0.69
3:N:209:ARG:HB2	3:N:389:GLU:HB3	1.74	0.69
3:D:664:LYS:O	3:D:666:ILE:N	2.25	0.69
2:C:535:SER:O	2:C:538:GLN:HG2	1.91	0.69
3:D:1492:LEU:HD13	3:D:1492:LEU:O	1.91	0.69
3:D:192:ALA:HB1	3:D:193:PRO:HD2	1.73	0.69
2:C:876:VAL:N	2:C:877:PRO:HD2	2.07	0.69
2:H:206:THR:HG23	2:H:207:LEU:N	2.07	0.69
2:M:861:LEU:CG	2:M:862:PRO:HD2	2.22	0.69
2:M:979:THR:HG23	2:M:981:GLU:N	2.06	0.69
3:N:956:ILE:HG12	3:N:1039:CYS:O	1.93	0.69
2:M:141:HIS:HB3	2:M:418:LEU:HD23	1.72	0.69
1:A:58:ILE:CD1	1:A:140:MET:HB3	2.22	0.69
2:M:1013:TYR:CE2	2:M:1060:ILE:HD11	2.26	0.69
1:G:197:LEU:HD23	1:G:197:LEU:O	1.92	0.69
1:B:27:PRO:O	1:B:28:LEU:HD23	1.93	0.69
2:C:9:ILE:O	2:C:9:ILE:HG13	1.92	0.69
2:H:92:ALA:HB2	2:H:120:LEU:HD11	1.74	0.69
3:I:868:TYR:CE1	3:I:869:MET:HG3	2.27	0.69
2:C:17:PRO:O	2:C:20:GLU:HB3	1.93	0.69
4:E:18:ARG:HH21	4:E:18:ARG:CB	2.03	0.69
3:D:1100:ASP:O	3:D:1103:HIS:ND1	2.25	0.69
1:B:80:LEU:HD21	3:D:867:ARG:HB2	1.72	0.69
3:N:153:LEU:CD1	3:N:158:TYR:HB2	2.18	0.69
2:C:54:ILE:CG2	2:C:66:LEU:HB3	2.23	0.69
2:M:195:LEU:CD2	2:M:241:LEU:HD12	2.22	0.69
2:C:172:ILE:H	2:C:172:ILE:HD12	1.56	0.69
2:H:455:LEU:HD12	2:H:456:ALA:O	1.91	0.69
3:N:1286:THR:O	3:N:1287:GLU:HB2	1.93	0.69
2:H:442:GLU:CG	2:H:454:SER:HB2	2.21	0.69
3:N:116:LEU:O	3:N:116:LEU:HD23	1.92	0.69
2:C:124:ASP:HB2	2:C:407:LYS:NZ	2.08	0.69
3:I:729:HIS:O	3:I:732:VAL:HG22	1.92	0.69
3:I:513:ILE:HD12	3:I:513:ILE:O	1.92	0.69
3:I:54:LYS:CD	3:I:55:ASP:H	2.06	0.69
3:D:702:LEU:O	3:D:713:ILE:HG23	1.93	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:48:ILE:CG2	1:F:49:PRO:HD2	2.23	0.69
3:I:154:THR:HG23	3:I:157:GLU:HB2	1.75	0.69
2:H:238:LEU:O	2:H:241:LEU:HB3	1.93	0.69
2:H:418:LEU:CD1	2:H:418:LEU:H	2.05	0.69
3:D:1219:GLU:OE1	4:E:17:TYR:OH	2.10	0.69
3:D:1364:HIS:CE1	3:D:1366:LYS:HG3	2.26	0.69
2:H:950:LEU:HD12	2:H:952:LEU:CD2	2.22	0.69
3:D:817:GLU:HG3	3:D:839:LEU:HD23	1.74	0.69
2:C:432:ARG:HH22	3:D:1047:LYS:CD	2.06	0.69
2:H:688:ILE:CD1	2:H:847:GLY:HA3	2.22	0.69
2:C:418:LEU:H	2:C:418:LEU:HD12	1.58	0.69
3:N:1367:HIS:O	3:N:1371:VAL:HG23	1.93	0.69
2:C:54:ILE:HD11	2:C:355:VAL:HG13	1.75	0.69
3:I:127:LEU:HD12	3:I:128:TYR:N	2.07	0.69
2:M:95:TYR:CE2	2:M:114:PHE:HB2	2.28	0.69
2:M:418:LEU:H	2:M:418:LEU:CD1	2.03	0.69
2:H:354:GLY:O	2:H:358:ARG:HD3	1.92	0.69
3:D:957:PRO:HG2	3:D:1007:VAL:CG2	2.23	0.69
3:I:982:PHE:CD2	7:Y:119:ILE:HG23	2.28	0.69
2:M:1014:SER:HB2	2:M:1021:LEU:HD13	1.75	0.69
2:C:395:LYS:HG2	2:C:397:GLU:HG3	1.75	0.69
2:H:831:ARG:HH12	2:H:1002:GLU:CB	2.04	0.69
2:H:84:ARG:HE	2:H:128:ILE:CD1	2.05	0.69
1:F:224:TYR:CE1	1:G:9:PRO:HD2	2.27	0.69
3:D:1153:VAL:HG12	3:D:1155:VAL:HG22	1.73	0.69
1:L:176:ARG:HG3	1:L:200:TRP:CE3	2.28	0.69
3:N:1234:THR:HB	3:N:1235:GLN:OE1	1.92	0.69
3:N:458:ALA:HB2	3:N:575:GLN:NE2	2.08	0.69
2:C:352:ALA:HA	2:C:355:VAL:HG12	1.73	0.69
3:I:1195:GLN:HG3	3:I:1196:THR:N	2.07	0.69
3:D:875:THR:HG22	3:D:876:SER:N	2.08	0.69
2:H:831:ARG:NH1	2:H:1002:GLU:HB2	2.08	0.69
2:M:6:PHE:HZ	2:M:901:TYR:CD2	2.11	0.69
3:I:868:TYR:CD1	3:I:869:MET:HG3	2.28	0.69
3:N:1153:VAL:HG12	3:N:1155:VAL:HG22	1.75	0.69
3:N:17:LYS:HG2	3:N:21:TRP:HE1	1.57	0.69
2:H:141:HIS:HB3	2:H:418:LEU:HD23	1.75	0.69
2:C:588:VAL:HG21	2:C:664:GLY:O	1.93	0.69
2:C:668:LEU:HD12	2:C:668:LEU:N	2.07	0.69
3:D:1147:ARG:HB3	3:D:1188:VAL:CG2	2.23	0.69
2:M:204:GLN:NE2	2:M:228:ALA:HB1	2.08	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:835:SER:H	3:I:838:ARG:CD	2.07	0.69
2:M:56:GLU:HB3	2:M:359:MET:SD	2.33	0.69
2:H:1105:LYS:HD2	2:H:1107:ASN:ND2	2.07	0.69
2:C:794:PRO:CD	2:C:1025:ALA:HA	2.22	0.69
2:H:737:LEU:HD23	2:H:742:VAL:O	1.92	0.69
1:F:54:THR:CG2	1:F:158:ILE:HG13	2.23	0.69
3:D:967:ALA:O	3:D:970:LYS:HB3	1.93	0.69
3:I:880:ILE:CG2	3:I:881:LEU:N	2.55	0.69
7:Z:64:SER:O	7:Z:68:ILE:HG12	1.92	0.69
3:I:12:LEU:N	3:I:12:LEU:HD12	2.07	0.69
2:H:160:ALA:HB3	2:H:174:LEU:HB2	1.74	0.68
2:C:1085:PHE:CD1	2:C:1111:ILE:HG21	2.28	0.68
3:I:785:ILE:HG22	3:I:789:LEU:HD11	1.73	0.68
3:N:486:ARG:HA	3:N:489:ARG:HG2	1.75	0.68
3:D:153:LEU:CD1	3:D:158:TYR:HB2	2.22	0.68
2:M:1082:PRO:HB2	2:M:1084:SER:OG	1.93	0.68
3:I:1094:LEU:HD23	3:I:1230:GLY:HA2	1.75	0.68
3:N:50:PHE:CG	3:N:522:PRO:HD3	2.27	0.68
2:M:113:VAL:O	2:M:115:LEU:CD2	2.41	0.68
2:C:304:LEU:HG	2:C:305:PRO:HD3	1.72	0.68
2:H:263:ASP:HB2	2:H:264:PRO:HD3	1.75	0.68
3:D:109:PRO:HB3	3:D:494:LYS:HZ2	1.56	0.68
3:D:25:GLU:HB2	3:D:92:HIS:CE1	2.27	0.68
2:C:1027:PHE:HD2	2:C:1027:PHE:H	1.40	0.68
1:G:128:HIS:NE2	1:G:131:THR:HG23	2.07	0.68
2:H:965:GLU:HA	2:H:968:LEU:HD12	1.75	0.68
1:A:102:LYS:HD3	1:A:139:ASN:HD21	1.58	0.68
3:D:1161:GLU:OE2	3:D:1164:ARG:HD2	1.93	0.68
4:O:80:VAL:HG13	4:O:81:PRO:HD2	1.75	0.68
2:H:598:GLU:O	2:H:651:LYS:HG3	1.93	0.68
2:H:412:ALA:O	2:H:419:THR:HG23	1.93	0.68
3:N:977:ALA:C	3:N:983:LEU:HD21	2.13	0.68
2:C:834:GLN:NE2	3:D:724:GLN:HG3	1.97	0.68
3:N:783:ARG:HA	3:N:1028:ALA:HA	1.75	0.68
3:I:603:LEU:O	3:I:606:ILE:HG22	1.92	0.68
3:D:834:THR:CB	3:D:838:ARG:HD3	2.21	0.68
3:I:1018:ASN:HB3	3:I:1021:TYR:HB3	1.76	0.68
3:N:1261:GLU:OE1	3:N:1268:PRO:HA	1.93	0.68
2:M:332:ARG:NH2	2:M:338:GLU:OE1	2.26	0.68
3:I:1161:GLU:HG2	3:I:1164:ARG:HB2	1.76	0.68
2:M:432:ARG:HH22	3:N:1047:LYS:HD3	1.56	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:86:VAL:O	1:L:86:VAL:HG13	1.91	0.68
4:E:36:LYS:HA	4:E:36:LYS:HZ3	1.57	0.68
1:A:88:ARG:O	1:A:120:VAL:HG23	1.91	0.68
2:M:161:SER:C	2:M:162:ILE:HD12	2.13	0.68
3:I:412:GLY:HA2	3:I:434:ARG:HD3	1.74	0.68
2:H:146:VAL:CG2	2:H:162:ILE:HG12	2.22	0.68
3:N:982:PHE:CD2	7:Z:119:ILE:HD12	2.29	0.68
1:F:225:PHE:HE2	1:G:25:LEU:HD22	1.58	0.68
2:H:861:LEU:HG	2:H:862:PRO:HD2	1.75	0.68
3:N:165:LYS:HZ1	3:N:199:LEU:HD22	1.56	0.68
2:M:1046:ALA:CB	3:N:1476:THR:HB	2.24	0.68
3:N:1351:GLU:OE1	3:N:1351:GLU:HA	1.94	0.68
2:C:77:PRO:HD2	2:C:91:GLN:O	1.92	0.68
2:M:722:ILE:HG23	2:M:722:ILE:O	1.92	0.68
3:D:875:THR:HG22	3:D:876:SER:H	1.59	0.68
3:N:1149:LEU:HG	3:N:1166:LEU:CD2	2.23	0.68
2:M:34:VAL:HB	2:M:38:LYS:HG3	1.75	0.68
1:F:90:LEU:HD13	1:F:119:ASP:O	1.93	0.68
2:M:142:ARG:HE	2:M:325:ILE:HD12	1.58	0.68
2:H:140:ILE:O	2:H:140:ILE:HD12	1.93	0.68
3:I:109:PRO:HB3	3:I:494:LYS:HZ3	1.58	0.68
3:D:1225:ALA:HB2	3:D:1370:ILE:HD12	1.76	0.68
3:D:1371:VAL:HG12	3:D:1375:MET:HE2	1.73	0.68
3:I:1216:SER:OG	4:J:16:LYS:N	2.25	0.68
3:I:603:LEU:HA	3:I:606:ILE:HG22	1.75	0.68
3:N:957:PRO:CG	3:N:1007:VAL:HA	2.24	0.68
3:D:636:GLN:HG2	3:D:637:LEU:N	2.08	0.68
3:I:688:TRP:HA	3:I:688:TRP:HE3	1.59	0.68
3:I:1097:LYS:HA	3:I:1100:ASP:HB2	1.74	0.68
1:G:94:LEU:HD11	1:G:119:ASP:HB2	1.76	0.68
3:N:1041:LEU:HB2	3:N:1059:SER:O	1.94	0.68
2:H:587:VAL:HG11	2:H:666:LEU:HD22	1.76	0.68
2:H:235:LEU:O	2:H:239:PHE:CD2	2.47	0.68
2:H:333:ILE:HD12	2:H:410:ILE:CD1	2.24	0.68
3:D:1100:ASP:O	3:D:1103:HIS:CE1	2.47	0.68
3:N:774:SER:HB3	3:N:1362:LYS:O	1.94	0.68
3:D:907:GLU:O	3:D:911:LEU:HD12	1.93	0.68
2:M:369:PRO:CG	2:M:370:ALA:H	1.95	0.68
3:N:1345:GLU:O	3:N:1349:VAL:HG23	1.93	0.68
2:M:304:LEU:HD23	2:M:305:PRO:HD3	1.76	0.68
7:Y:35:GLU:HA	7:Y:35:GLU:OE1	1.94	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:58:ILE:HG21	1:A:68:ILE:HD11	1.76	0.68
2:C:162:ILE:HB	2:C:172:ILE:HB	1.75	0.68
3:I:160:GLU:HG2	3:I:165:LYS:CB	2.23	0.68
2:H:310:LEU:O	2:H:314:THR:HG23	1.94	0.68
3:D:982:PHE:N	3:D:982:PHE:CD2	2.61	0.68
3:D:143:ASN:HB3	3:D:161:LEU:CD2	2.23	0.68
2:M:274:ARG:NH1	2:M:285:LEU:HD22	2.08	0.68
2:C:136:ILE:HG21	2:C:336:VAL:HG13	1.75	0.68
1:K:66:SER:O	1:K:75:VAL:HG23	1.94	0.68
2:C:1043:TYR:CD2	3:D:710:ARG:HD2	2.29	0.68
2:H:460:ARG:HH11	2:H:460:ARG:HG3	1.58	0.68
3:N:963:TYR:CD2	3:N:1002:LYS:HD3	2.29	0.68
2:C:1067:TYR:O	2:C:1071:ILE:HG12	1.94	0.68
3:I:623:VAL:HG12	3:I:624:ASP:O	1.94	0.68
2:H:676:ILE:CD1	2:H:871:LEU:HB2	2.23	0.68
3:I:785:ILE:HD13	3:I:935:LYS:HA	1.76	0.68
2:C:282:GLY:C	2:C:283:ILE:HG12	2.12	0.68
3:N:631:ILE:HD13	3:N:631:ILE:O	1.94	0.68
1:A:54:THR:HG22	1:A:158:ILE:HD11	1.76	0.68
2:C:1105:LYS:HZ2	2:C:1107:ASN:HB2	1.56	0.68
3:I:139:GLY:HA3	3:I:162:ARG:NH2	2.09	0.68
3:D:387:LEU:N	3:D:387:LEU:HD12	2.08	0.68
2:C:442:GLU:HG2	2:C:454:SER:OG	1.93	0.68
4:J:59:ASN:HD21	4:J:61:VAL:CG2	2.06	0.68
1:G:197:LEU:CD2	1:G:199:ILE:HD11	2.24	0.68
3:D:126:VAL:O	3:D:130:SER:HB3	1.92	0.68
3:D:1111:ASP:OD1	3:D:1203:LYS:HD2	1.94	0.68
3:N:1084:THR:HG22	3:N:1087:ARG:NH2	2.09	0.68
3:I:794:GLN:OE1	3:I:795:VAL:N	2.22	0.68
1:B:66:SER:OG	1:B:75:VAL:HG21	1.94	0.68
3:N:1031:ASN:ND2	7:Z:32:ILE:HG23	2.09	0.68
3:I:988:ARG:O	3:I:992:ILE:HG13	1.94	0.68
2:M:1092:LEU:HD21	3:N:1447:LEU:CD2	2.24	0.68
3:I:970:LYS:O	3:I:974:ILE:HG12	1.94	0.68
1:A:73:GLU:HB2	1:A:78:ILE:CD1	2.24	0.68
2:M:879:ARG:CB	2:M:881:ASN:HD21	2.06	0.68
2:C:714:ASP:OD1	2:C:719:PRO:HG3	1.93	0.68
2:C:906:PHE:CE1	3:D:1067:VAL:HA	2.28	0.68
4:J:41:GLU:OE2	4:J:42:PRO:HD3	1.93	0.68
2:H:591:SER:O	2:H:592:LEU:HB2	1.93	0.68
1:B:56:VAL:HG21	1:B:82:LEU:HD12	1.75	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:900:ILE:HD12	3:I:901:GLN:N	2.09	0.68
2:H:274:ARG:CG	2:H:285:LEU:HB3	2.23	0.68
3:D:782:SER:O	3:D:785:ILE:HD13	1.93	0.68
2:C:1089:VAL:O	2:C:1093:GLN:HG2	1.94	0.68
3:D:28:LYS:CD	3:D:29:PRO:HD2	2.23	0.68
3:N:1098:LEU:HD21	3:N:1229:ILE:CG2	2.23	0.68
3:D:209:ARG:CB	3:D:389:GLU:HB3	2.22	0.68
2:H:368:THR:HB	2:H:369:PRO:CD	2.22	0.68
3:N:119:SER:HB2	3:N:123:LEU:CB	2.20	0.68
2:C:578:VAL:CG2	2:C:579:VAL:HG12	2.17	0.68
2:M:863:ASP:CG	2:M:865:THR:HG22	2.13	0.68
2:C:305:PRO:HA	2:C:308:ARG:CB	2.21	0.68
3:I:566:ILE:CD1	3:I:566:ILE:H	2.05	0.68
2:M:182:VAL:O	2:M:193:LEU:HD13	1.93	0.68
2:M:1014:SER:HB3	2:M:1017:THR:O	1.94	0.68
1:F:196:THR:HG1	2:H:934:PHE:HZ	1.35	0.68
3:I:1093:TYR:HA	3:I:1096:ARG:HD2	1.74	0.68
1:G:44:LEU:HA	1:G:48:ILE:HD11	1.75	0.68
1:A:18:ARG:O	1:A:207:PRO:HD3	1.93	0.68
2:H:946:ARG:O	2:H:950:LEU:HB2	1.93	0.68
3:I:402:PRO:CA	3:I:443:VAL:HG23	2.23	0.68
3:N:133:ILE:HG22	3:N:134:VAL:N	2.09	0.68
3:N:1401:GLU:OE2	3:N:1415:VAL:HG21	1.94	0.68
2:M:1004:LYS:O	3:N:629:SER:HA	1.93	0.68
1:G:74:ASP:HB2	3:I:872:ARG:HH22	1.57	0.68
3:N:834:THR:HG22	3:N:838:ARG:HH11	1.58	0.68
2:M:496:ILE:HD12	2:M:496:ILE:N	2.08	0.68
3:N:1124:GLN:OE1	3:N:1135:ARG:HG2	1.92	0.68
3:N:517:VAL:HG21	3:N:547:LEU:HD21	1.76	0.68
2:C:657:ASP:HB3	2:C:661:SER:O	1.94	0.68
3:D:1029:ARG:NH2	7:X:41:ASP:OD2	2.27	0.68
3:N:387:LEU:N	3:N:387:LEU:HD12	2.06	0.68
2:H:679:PHE:H	2:H:683:ASN:HD21	1.39	0.68
2:M:243:ARG:N	2:M:244:PRO:HD3	2.08	0.68
2:M:279:GLU:HG3	2:M:280:LYS:N	2.09	0.68
2:M:670:GLN:HG3	2:M:700:TYR:CE1	2.29	0.68
3:I:1109:GLU:HG2	3:I:1201:CYS:CA	2.22	0.68
2:M:911:GLU:OE1	3:N:951:ILE:HD13	1.93	0.68
3:D:969:ARG:HG3	3:D:970:LYS:N	2.07	0.68
2:M:146:VAL:HG22	2:M:162:ILE:HG13	1.75	0.68
2:H:695:LEU:HD21	2:H:832:LYS:HD3	1.75	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:25:GLU:HG3	3:I:92:HIS:O	1.93	0.68
1:B:56:VAL:HG11	1:B:140:MET:HE3	1.75	0.68
2:C:286:SER:HB3	2:C:299:LYS:HE3	1.75	0.68
3:I:1283:ILE:HD12	3:I:1292:VAL:HG22	1.75	0.68
2:H:165:LEU:CG	2:H:166:PRO:HA	2.20	0.67
3:D:1087:ARG:CG	3:D:1234:THR:O	2.42	0.67
1:A:39:PRO:O	1:A:43:ILE:HG13	1.94	0.67
3:N:127:LEU:CD2	3:N:134:VAL:CG2	2.72	0.67
3:N:145:VAL:HG22	3:N:146:PRO:HD2	1.76	0.67
3:N:704:ARG:HD3	3:N:738:ALA:HB2	1.75	0.67
3:I:1231:GLU:CB	3:I:1232:PRO:HD3	2.24	0.67
3:I:957:PRO:HA	3:I:1010:ASN:ND2	2.10	0.67
3:I:135:LEU:HD21	3:I:137:PRO:O	1.94	0.67
2:M:191:PHE:HB2	2:M:241:LEU:HD11	1.76	0.67
2:C:203:ASP:HB2	2:C:205:GLU:OE2	1.93	0.67
3:N:10:ILE:O	3:N:1454:GLY:HA2	1.94	0.67
2:H:157:ARG:HD3	2:H:314:THR:HG22	1.74	0.67
1:F:58:ILE:HB	1:F:61:VAL:HB	1.76	0.67
3:D:984:THR:HG22	3:D:987:GLU:CD	2.15	0.67
1:K:25:LEU:HD23	1:K:25:LEU:O	1.93	0.67
3:D:23:TYR:O	3:D:49:ILE:HG23	1.93	0.67
7:X:6:LYS:HB2	7:X:6:LYS:HZ2	1.59	0.67
3:N:737:ASN:OD1	7:Z:40:SER:HB3	1.94	0.67
2:H:267:TYR:CG	2:H:272:ALA:HB1	2.29	0.67
2:H:425:PHE:CZ	3:I:1079:LYS:CD	2.77	0.67
1:G:36:LEU:O	1:G:39:PRO:HD2	1.95	0.67
2:C:435:TYR:O	2:C:437:ARG:HD2	1.92	0.67
1:F:150:TYR:HE2	1:F:152:PRO:HG3	1.59	0.67
2:M:1001:VAL:O	2:M:1001:VAL:HG12	1.94	0.67
2:H:404:LEU:HA	2:H:407:LYS:HD2	1.76	0.67
3:I:1459:LEU:HD23	3:I:1468:LEU:CD1	2.24	0.67
3:N:179:VAL:HG22	3:N:183:GLU:OE2	1.94	0.67
2:H:726:ILE:HD13	2:H:734:LEU:CD2	2.24	0.67
2:H:347:GLY:HA3	2:H:378:LEU:CD1	2.23	0.67
2:M:516:ARG:HG3	3:N:1068:LEU:CD1	2.23	0.67
2:C:148:PHE:CE1	2:C:309:TYR:CD2	2.76	0.67
3:N:646:LYS:HG3	3:N:647:ARG:N	2.08	0.67
2:M:549:PHE:CD2	2:M:886:LEU:HB3	2.29	0.67
1:K:124:ASN:OD1	1:K:127:LEU:HB2	1.94	0.67
3:D:969:ARG:HG3	3:D:970:LYS:H	1.59	0.67
1:F:55:SER:HA	1:F:167:VAL:HG23	1.77	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:128:ILE:HG12	2:H:133:ASP:OD2	1.94	0.67
3:I:104:PHE:O	3:I:112:ILE:HG22	1.93	0.67
1:F:224:TYR:CD1	1:G:9:PRO:HD2	2.28	0.67
2:C:1067:TYR:CZ	2:C:1071:ILE:HD11	2.29	0.67
2:M:754:ILE:HG12	2:M:791:ARG:NH1	2.09	0.67
3:N:682:ASP:N	3:N:682:ASP:OD1	2.26	0.67
2:H:272:ALA:CA	2:H:464:LEU:HD21	2.22	0.67
3:D:1035:ILE:HA	3:D:1038:LEU:HD12	1.77	0.67
3:I:163:TYR:CD1	2:M:209:ARG:NH2	2.63	0.67
2:C:1086:ARG:HD3	3:D:88:TYR:CE1	2.30	0.67
3:I:792:ILE:O	3:I:878:GLY:HA3	1.94	0.67
2:C:418:LEU:N	2:C:418:LEU:HD12	2.09	0.67
3:N:1018:ASN:O	3:N:1022:VAL:HG23	1.95	0.67
3:I:10:ILE:HG22	3:I:10:ILE:O	1.95	0.67
4:J:51:LEU:HG	4:J:53:GLY:H	1.59	0.67
3:N:367:ILE:HG22	3:N:368:VAL:HG23	1.75	0.67
3:D:970:LYS:HZ1	7:X:113:LEU:HD23	1.59	0.67
2:C:30:LEU:O	2:C:32:ALA:N	2.28	0.67
7:X:14:ARG:NH1	7:X:14:ARG:HB3	2.09	0.67
3:I:679:ARG:CG	3:I:681:ARG:HG3	2.23	0.67
2:M:1029:GLY:O	3:N:622:ARG:HB3	1.94	0.67
2:M:401:LEU:HD13	2:M:587:VAL:HG11	1.76	0.67
2:M:13:ILE:HG13	2:M:13:ILE:O	1.94	0.67
2:H:162:ILE:HD11	2:H:306:THR:HG21	1.75	0.67
3:D:1093:TYR:CZ	3:D:1097:LYS:HG2	2.29	0.67
3:I:633:VAL:HB	3:I:740:PHE:CE1	2.29	0.67
3:D:142:LEU:HD22	3:D:145:VAL:CA	2.25	0.67
3:D:803:GLY:HA2	3:D:804:LEU:HD23	1.77	0.67
3:N:736:PHE:O	3:N:738:ALA:N	2.27	0.67
1:K:218:LEU:O	1:K:222:LEU:HD13	1.94	0.67
1:G:59:GLU:CB	1:G:137:ARG:HH12	2.05	0.67
3:D:550:ARG:CZ	3:D:573:MET:HE3	2.23	0.67
1:F:196:THR:OG1	2:H:934:PHE:CZ	2.47	0.67
2:H:666:LEU:HD12	2:H:667:ALA:N	2.10	0.67
3:I:565:ILE:HD11	2:M:219:GLN:HB3	1.76	0.67
2:H:73:LEU:HD12	2:H:73:LEU:C	2.15	0.67
3:N:356:PRO:CA	3:N:440:VAL:O	2.34	0.67
2:C:165:LEU:HB3	2:C:265:ARG:HH22	1.59	0.67
3:N:154:THR:HG23	3:N:157:GLU:HB2	1.75	0.67
2:M:839:LEU:HD21	2:M:849:VAL:HG23	1.76	0.67
2:M:408:ARG:HH21	2:M:455:LEU:CD1	2.08	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:412:ALA:O	2:M:419:THR:HG23	1.93	0.67
2:H:21:ILE:H	2:H:21:ILE:CD1	2.06	0.67
3:D:720:LEU:H	3:D:720:LEU:HD12	1.59	0.67
3:I:501:ALA:HB1	3:I:1452:ILE:HG22	1.76	0.67
3:I:397:LYS:O	3:I:448:GLU:HB2	1.95	0.67
3:I:1394:VAL:HG21	3:I:1432:LYS:HD2	1.77	0.67
1:F:68:ILE:N	1:F:68:ILE:HD12	2.09	0.67
2:M:430:VAL:O	3:N:1075:HIS:ND1	2.28	0.67
1:B:56:VAL:HG12	1:B:57:TYR:N	2.08	0.67
2:H:1071:ILE:O	3:I:659:LYS:HD3	1.95	0.67
2:H:676:ILE:O	2:H:676:ILE:HG23	1.94	0.67
3:D:50:PHE:O	3:D:89:ARG:HD2	1.94	0.67
3:N:881:LEU:O	3:N:885:ILE:HG13	1.94	0.67
3:I:119:SER:HB2	3:I:123:LEU:N	2.07	0.67
3:I:907:GLU:HG2	3:I:908:LYS:N	2.08	0.67
3:N:957:PRO:HG2	3:N:1007:VAL:HG22	1.75	0.67
4:E:51:LEU:C	4:E:53:GLY:H	1.98	0.67
3:I:1047:LYS:HG2	3:I:1053:PHE:CE1	2.30	0.67
3:N:641:GLN:O	3:N:716:PHE:HD2	1.78	0.67
1:K:182:GLU:HG2	1:K:183:ASP:N	2.09	0.67
1:F:45:LEU:HD11	1:F:177:VAL:CG2	2.24	0.67
2:H:630:ARG:HD2	2:H:634:GLY:HA2	1.76	0.67
2:M:6:PHE:HE1	2:M:901:TYR:HB3	1.60	0.67
1:B:64:GLU:HB3	1:B:65:PHE:CE1	2.29	0.67
2:C:545:ASN:HB3	2:C:583:LEU:HD22	1.76	0.67
1:B:133:GLU:HG3	1:B:134:GLU:H	1.59	0.67
3:D:1197:ARG:HB3	3:D:1396:GLU:OE2	1.93	0.67
1:F:46:SER:HB3	2:H:856:GLU:CG	2.25	0.67
2:H:927:GLY:HA2	2:H:930:LYS:HD2	1.77	0.67
2:C:456:ALA:HB3	2:C:459:ALA:HB2	1.76	0.67
3:I:795:VAL:HG23	3:I:879:ARG:NH1	2.07	0.67
3:I:838:ARG:HB3	3:I:865:THR:CG2	2.24	0.67
3:D:838:ARG:HB3	3:D:865:THR:HG23	1.77	0.67
3:N:864:VAL:CG1	3:N:865:THR:H	2.03	0.67
2:C:572:ILE:CD1	2:C:573:ARG:H	2.05	0.67
3:D:890:VAL:HG11	3:D:922:LEU:CD1	2.22	0.67
3:I:1459:LEU:HD22	3:I:1470:ARG:NH2	2.08	0.67
3:N:210:ARG:HB2	3:N:389:GLU:CG	2.25	0.67
2:M:383:ARG:HH11	2:M:383:ARG:HB2	1.59	0.67
2:M:759:THR:HB	2:M:785:VAL:CG2	2.25	0.67
2:H:367:LEU:HB3	2:H:371:LYS:CE	2.24	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:471:GLU:O	3:N:475:LYS:HG3	1.94	0.67
2:M:610:ARG:HG3	2:M:610:ARG:HH11	1.59	0.67
1:B:176:ARG:HG3	1:B:200:TRP:CE3	2.29	0.67
3:D:376:GLU:O	3:D:378:ILE:HG13	1.93	0.67
3:I:1493:LYS:O	3:I:1497:GLU:HG2	1.95	0.67
1:K:56:VAL:HG12	1:K:57:TYR:N	2.10	0.67
3:D:704:ARG:CB	3:D:736:PHE:HB3	2.25	0.67
1:G:58:ILE:HB	1:G:61:VAL:HB	1.77	0.67
2:C:1101:THR:C	2:C:1102:LEU:HD12	2.14	0.67
1:L:123:MET:O	1:L:125:PRO:HD3	1.94	0.67
1:A:88:ARG:NH1	1:A:90:LEU:HD11	2.10	0.67
3:N:897:TRP:HA	3:N:900:ILE:CD1	2.25	0.67
2:C:124:ASP:HB2	2:C:407:LYS:HZ1	1.59	0.67
2:C:447:ALA:HA	3:D:1085:ALA:HB1	1.76	0.67
3:D:996:TRP:HA	3:D:999:THR:HG22	1.76	0.67
3:I:1051:GLU:HG3	3:I:1051:GLU:O	1.95	0.67
3:D:845:ASN:H	3:D:848:GLU:HG3	1.60	0.67
2:H:185:LYS:CG	2:H:190:LYS:HG2	2.25	0.67
2:H:285:LEU:O	2:H:285:LEU:HD23	1.95	0.67
3:N:1231:GLU:HB3	3:N:1232:PRO:HD3	1.77	0.67
3:N:134:VAL:HG12	3:N:135:LEU:N	2.09	0.67
3:N:1372:VAL:HA	3:N:1375:MET:HE2	1.77	0.67
2:M:113:VAL:HG23	2:M:113:VAL:O	1.95	0.67
1:A:158:ILE:HD12	1:A:158:ILE:N	2.06	0.67
3:D:477:LEU:HD22	3:D:492:ALA:HB1	1.75	0.67
2:C:191:PHE:HB2	2:C:241:LEU:HD11	1.77	0.67
3:N:1285:GLU:O	3:N:1286:THR:CB	2.42	0.67
3:I:498:VAL:HG13	3:I:1452:ILE:HD12	1.77	0.67
2:M:432:ARG:HH22	3:N:1047:LYS:CD	2.07	0.67
3:N:1045:MET:O	3:N:1053:PHE:HB2	1.95	0.67
2:M:950:LEU:HD12	2:M:952:LEU:CD2	2.25	0.67
3:N:1149:LEU:HG	3:N:1166:LEU:HD22	1.77	0.67
2:M:352:ALA:HA	2:M:355:VAL:CG1	2.25	0.67
3:N:1223:ILE:HG22	3:N:1227:GLN:HE21	1.58	0.67
3:D:171:LEU:CD2	3:D:172:PRO:HD2	2.25	0.67
3:N:17:LYS:HG2	3:N:21:TRP:NE1	2.10	0.67
1:L:61:VAL:HG22	1:L:68:ILE:HD11	1.76	0.67
2:H:266:ARG:HA	2:H:288:ARG:HD3	1.77	0.67
2:C:602:GLU:HG3	2:C:603:VAL:N	2.10	0.67
3:D:720:LEU:N	3:D:720:LEU:HD12	2.09	0.67
2:M:886:LEU:HD11	3:N:951:ILE:HD12	1.76	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:68:ILE:HD12	1:K:68:ILE:N	2.10	0.67
3:I:959:GLU:H	3:I:959:GLU:CD	1.95	0.67
1:B:73:GLU:OE1	1:B:130:ALA:HA	1.95	0.67
2:C:683:ASN:HA	2:C:687:ALA:HB3	1.77	0.66
2:C:281:LEU:CD1	2:C:306:THR:HA	2.24	0.66
2:C:160:ALA:HB3	2:C:174:LEU:HB2	1.78	0.66
3:N:178:LEU:HD12	3:N:190:GLU:O	1.94	0.66
3:I:138:LYS:HG2	3:I:450:TYR:OH	1.94	0.66
3:D:1395:LEU:C	3:D:1395:LEU:HD23	2.14	0.66
2:M:508:ILE:HD13	2:M:508:ILE:N	2.10	0.66
3:N:1129:THR:HG23	3:N:1130:ARG:N	2.10	0.66
2:M:630:ARG:HD3	2:M:705:ILE:HB	1.75	0.66
2:M:447:ALA:O	2:M:448:ASN:HB2	1.95	0.66
2:H:281:LEU:CD1	2:H:306:THR:HA	2.25	0.66
3:D:1066:THR:HG23	3:D:1069:GLU:H	1.59	0.66
2:C:1088:LEU:HD23	2:C:1092:LEU:HD12	1.77	0.66
4:O:46:PRO:HB2	4:O:54:LEU:HD22	1.76	0.66
3:N:1472:ILE:O	3:N:1477:GLY:HA3	1.95	0.66
3:N:1209:LEU:HD21	4:O:16:LYS:NZ	2.10	0.66
2:C:202:TYR:OH	2:C:304:LEU:HD22	1.95	0.66
3:D:728:LEU:HD12	3:D:729:HIS:H	1.60	0.66
3:N:957:PRO:HG2	3:N:1007:VAL:HA	1.77	0.66
1:A:128:HIS:HE1	1:A:131:THR:HG23	1.59	0.66
2:H:157:ARG:HG3	2:H:158:TYR:H	1.60	0.66
2:H:496:ILE:HD12	2:H:496:ILE:N	2.10	0.66
2:C:854:PRO:HB2	2:C:856:GLU:CG	2.23	0.66
2:H:631:SER:CB	2:H:637:LEU:HD11	2.24	0.66
3:D:102:ILE:HB	3:D:579:ASP:OD1	1.94	0.66
1:B:56:VAL:HG22	1:B:142:VAL:HG12	1.77	0.66
3:D:792:ILE:CD1	3:D:881:LEU:HD23	2.25	0.66
3:D:860:LEU:HD23	3:D:877:PRO:HB2	1.77	0.66
2:M:106:GLY:O	2:M:107:LEU:HD23	1.95	0.66
1:G:56:VAL:HG21	1:G:82:LEU:HD12	1.75	0.66
3:I:566:ILE:CD1	3:I:566:ILE:N	2.58	0.66
4:J:51:LEU:C	4:J:53:GLY:H	1.98	0.66
1:F:20:TYR:OH	1:F:198:ARG:HD3	1.95	0.66
3:I:1197:ARG:HB3	3:I:1396:GLU:CG	2.25	0.66
3:N:767:HIS:CE1	4:O:6:ILE:HD12	2.31	0.66
1:A:176:ARG:HG3	1:A:200:TRP:CE3	2.29	0.66
1:F:122:ILE:HD12	1:F:122:ILE:N	2.10	0.66
2:C:36:PRO:HG2	2:C:70:GLU:HG2	1.77	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:165:LEU:HG	2:H:166:PRO:CA	2.21	0.66
3:D:1057:VAL:HG13	3:D:1069:GLU:HG2	1.75	0.66
3:I:1482:ARG:HH21	3:I:1483:PHE:HZ	1.44	0.66
3:D:1472:ILE:O	3:D:1477:GLY:HA3	1.95	0.66
2:M:368:THR:O	2:M:372:LEU:HD22	1.95	0.66
3:N:1263:PHE:O	3:N:1424:VAL:HG12	1.96	0.66
2:M:92:ALA:HB2	2:M:120:LEU:HD11	1.78	0.66
3:I:1147:ARG:HB3	3:I:1188:VAL:CG2	2.22	0.66
2:M:1096:ALA:H	3:N:101:HIS:HE2	1.41	0.66
2:C:831:ARG:NH1	2:C:1002:GLU:HB2	2.10	0.66
3:D:762:GLN:HE21	4:E:20:THR:CG2	2.08	0.66
1:F:206:THR:HG22	1:F:209:GLU:H	1.58	0.66
2:M:516:ARG:HE	3:N:1068:LEU:HD13	1.61	0.66
2:H:157:ARG:HG3	2:H:158:TYR:N	2.08	0.66
3:D:996:TRP:CE3	3:D:999:THR:HG21	2.30	0.66
2:M:859:PRO:O	2:M:867:VAL:HG22	1.94	0.66
2:C:838:LYS:HZ2	2:C:846:LYS:HZ1	1.43	0.66
2:C:260:LEU:HD23	2:C:260:LEU:O	1.95	0.66
2:C:1046:ALA:CA	3:D:1472:ILE:HD11	2.25	0.66
3:D:158:TYR:CE1	3:D:452:ILE:HD11	2.29	0.66
2:M:115:LEU:HD12	2:M:378:LEU:CD2	2.25	0.66
2:M:327:HIS:HE1	2:M:489:THR:HA	1.61	0.66
2:M:497:ALA:HA	2:M:515:ALA:HA	1.77	0.66
2:M:744:ARG:HG3	2:M:747:ALA:HB2	1.78	0.66
3:D:171:LEU:HD23	3:D:172:PRO:HD2	1.77	0.66
3:D:1403:LEU:O	3:D:1407:LEU:HB2	1.95	0.66
2:H:212:GLY:CA	2:H:218:VAL:HG21	2.26	0.66
2:C:676:ILE:O	3:D:948:THR:HB	1.95	0.66
3:N:705:ALA:HB3	3:N:706:PRO:CD	2.20	0.66
3:I:992:ILE:O	3:I:995:LEU:HB3	1.96	0.66
2:H:1030:GLN:HE22	3:I:628:ARG:HD3	1.60	0.66
3:D:982:PHE:HB2	3:D:983:LEU:HD23	1.77	0.66
3:N:58:CYS:HB2	3:N:78:VAL:HB	1.78	0.66
3:D:409:VAL:HG11	3:D:413:ASP:HB3	1.77	0.66
3:N:1197:ARG:HB3	3:N:1396:GLU:OE2	1.94	0.66
4:J:41:GLU:CD	4:J:42:PRO:HD3	2.16	0.66
3:I:811:GLU:O	3:I:815:ALA:HB3	1.96	0.66
3:I:2:LYS:HG2	3:I:2:LYS:O	1.94	0.66
2:C:553:ASP:OD1	2:C:843:HIS:ND1	2.29	0.66
3:D:1107:VAL:O	3:D:1107:VAL:HG12	1.95	0.66
2:H:676:ILE:HG21	2:H:988:VAL:HG13	1.76	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1093:GLN:HB3	3:D:21:TRP:CZ3	2.30	0.66
3:N:127:LEU:HD23	3:N:134:VAL:CG2	2.25	0.66
3:N:704:ARG:HH12	3:N:743:ASP:CB	2.07	0.66
2:C:54:ILE:HG22	2:C:66:LEU:HB3	1.78	0.66
2:M:863:ASP:OD1	2:M:865:THR:HG22	1.95	0.66
1:L:41:ARG:HH11	1:L:177:VAL:CG2	2.08	0.66
2:C:943:VAL:CG2	2:C:985:GLY:H	2.08	0.66
2:C:84:ARG:NH1	2:C:84:ARG:HG3	2.10	0.66
2:C:717:LEU:HB3	2:C:761:PHE:CD2	2.30	0.66
1:L:206:THR:HG22	1:L:209:GLU:HG3	1.78	0.66
3:I:1132:LEU:N	3:I:1132:LEU:CD1	2.57	0.66
2:H:193:LEU:N	2:H:193:LEU:CD1	2.58	0.66
3:D:438:ASP:CG	3:D:441:ARG:NH2	2.49	0.66
3:I:119:SER:HB2	3:I:123:LEU:CB	2.24	0.66
3:D:692:GLU:OE1	3:D:720:LEU:HD13	1.95	0.66
2:H:292:ARG:HG3	2:H:294:GLU:CG	2.25	0.66
3:D:957:PRO:HG2	3:D:1007:VAL:HA	1.77	0.66
3:N:761:ILE:CD1	4:O:20:THR:HA	2.26	0.66
3:D:606:ILE:O	3:D:613:ARG:HG2	1.95	0.66
3:N:1109:GLU:OE1	3:N:1201:CYS:HB2	1.96	0.66
2:M:660:ALA:HB1	2:M:667:ALA:O	1.96	0.66
3:I:1132:LEU:N	3:I:1132:LEU:HD12	2.11	0.66
2:M:17:PRO:O	2:M:20:GLU:HB3	1.96	0.66
7:Y:134:VAL:HG23	7:Y:154:ILE:HD12	1.76	0.66
2:M:292:ARG:HD2	2:M:299:LYS:HE2	1.77	0.66
3:D:770:LEU:HB2	3:D:1210:SER:O	1.96	0.66
3:D:1207:TYR:CD1	3:D:1212:ALA:O	2.48	0.66
2:H:984:GLU:HG2	3:I:944:THR:O	1.96	0.66
3:I:804:LEU:HD23	3:I:831:GLY:N	2.11	0.66
1:B:76:VAL:HB	3:D:872:ARG:NH1	2.10	0.66
3:I:1026:SER:C	3:I:1028:ALA:H	1.99	0.66
2:M:52:PHE:HZ	2:M:98:LEU:HB3	1.59	0.66
2:M:862:PRO:CB	2:M:929:ARG:HH22	2.09	0.66
2:C:958:THR:CG2	2:C:961:GLU:HG3	2.20	0.66
2:M:267:TYR:CG	2:M:272:ALA:HB1	2.31	0.66
2:H:253:ALA:O	2:H:257:VAL:HG23	1.96	0.66
3:N:623:VAL:HG12	3:N:624:ASP:O	1.95	0.66
1:B:20:TYR:CD2	1:B:21:GLY:N	2.64	0.66
3:I:736:PHE:O	3:I:738:ALA:N	2.29	0.66
3:D:180:LYS:HZ1	3:D:386:HIS:HA	1.61	0.66
7:X:111:ASN:OD1	7:X:113:LEU:HB2	1.95	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:161:ARG:HB2	1:A:161:ARG:CZ	2.24	0.66
2:M:718:GLY:HA3	2:M:761:PHE:CE1	2.31	0.66
2:C:451:LEU:C	2:C:452:ILE:HD12	2.16	0.66
1:G:206:THR:HG22	1:G:209:GLU:CD	2.16	0.66
2:H:668:LEU:N	2:H:668:LEU:HD12	2.10	0.66
1:G:179:PHE:HD2	1:G:179:PHE:H	1.43	0.66
2:M:437:ARG:NH2	2:M:488:ALA:HA	2.11	0.66
2:C:585:GLU:O	2:C:588:VAL:HG22	1.94	0.66
3:D:1042:ARG:O	3:D:1057:VAL:HB	1.95	0.66
3:D:1106:VAL:CG1	3:D:1107:VAL:H	2.06	0.66
3:D:1109:GLU:OE1	3:D:1201:CYS:HB2	1.96	0.66
2:M:64:LEU:CD2	2:M:359:MET:HG3	2.21	0.66
3:N:1094:LEU:HD12	3:N:1098:LEU:HD13	1.78	0.66
2:H:1101:THR:C	2:H:1102:LEU:HD12	2.16	0.66
3:I:50:PHE:CG	3:I:522:PRO:HD3	2.30	0.66
3:D:176:ASP:HA	3:D:389:GLU:HA	1.78	0.66
3:I:1379:VAL:CG1	3:I:1419:PRO:HA	2.19	0.66
3:D:957:PRO:CG	3:D:1007:VAL:HA	2.25	0.66
2:M:893:ALA:HB2	2:M:918:LEU:HD12	1.77	0.66
1:F:100:LEU:CD2	1:F:141:GLU:HG3	2.26	0.66
3:N:1123:PHE:HE2	3:N:1184:GLN:HA	1.61	0.66
2:H:690:ILE:CD1	2:H:833:LEU:HD23	2.25	0.66
2:M:1046:ALA:HB3	3:N:1476:THR:HB	1.77	0.65
2:H:679:PHE:N	2:H:683:ASN:HD21	1.94	0.65
2:C:572:ILE:HG13	2:C:701:THR:O	1.97	0.65
2:C:172:ILE:HD12	2:C:172:ILE:N	2.11	0.65
2:H:253:ALA:HA	2:H:256:TYR:HB2	1.79	0.65
2:H:115:LEU:HD21	2:H:351:LEU:CD2	2.26	0.65
3:I:737:ASN:HD22	7:Y:40:SER:HB3	1.61	0.65
3:I:660:LYS:HD2	3:I:694:VAL:HG22	1.78	0.65
3:N:678:GLU:HG3	3:N:679:ARG:HG3	1.78	0.65
1:L:206:THR:HG23	1:L:208:LEU:N	2.11	0.65
2:H:122:THR:HG22	2:H:123:GLU:N	2.11	0.65
2:C:75:GLU:OE1	2:C:75:GLU:HA	1.95	0.65
7:Z:114:ASP:OD2	7:Z:118:LYS:HE3	1.96	0.65
7:X:115:THR:HB	7:X:116:PRO:HD3	1.78	0.65
2:H:290:LEU:HD23	2:H:290:LEU:H	1.60	0.65
3:N:982:PHE:HE1	7:Z:117:MET:HG2	1.61	0.65
2:C:250:ARG:HA	2:C:250:ARG:HH11	1.61	0.65
2:C:1081:VAL:CG2	2:C:1111:ILE:HG22	2.09	0.65
3:N:161:LEU:HG	3:N:397:LYS:NZ	2.11	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:711:LEU:HD22	3:D:714:GLN:HE21	1.60	0.65
3:I:1007:VAL:HG12	3:I:1011:PHE:HE2	1.61	0.65
3:I:1348:LEU:HD23	3:I:1372:VAL:CG2	2.26	0.65
3:D:180:LYS:HZ1	3:D:387:LEU:N	1.94	0.65
3:N:352:ASN:C	3:N:368:VAL:HG13	2.16	0.65
3:I:116:LEU:HD22	3:I:118:LEU:HD11	1.77	0.65
3:I:900:ILE:HD12	3:I:900:ILE:C	2.16	0.65
3:I:1265:ALA:HB1	3:I:1333:HIS:CE1	2.31	0.65
2:H:1005:MET:O	2:H:1005:MET:HG2	1.95	0.65
1:L:54:THR:O	1:L:167:VAL:HG23	1.96	0.65
3:D:1209:LEU:HD23	3:D:1211:MET:H	1.61	0.65
3:I:1106:VAL:CG1	3:I:1107:VAL:H	2.05	0.65
3:I:204:LEU:N	3:I:394:LEU:O	2.29	0.65
3:D:812:ALA:HB1	3:D:816:HIS:CD2	2.31	0.65
3:N:136:ASP:HB3	3:N:453:ASP:O	1.96	0.65
3:N:493:ARG:HG3	3:N:494:LYS:H	1.61	0.65
3:I:520:LEU:HD11	3:I:524:LEU:HD22	1.78	0.65
3:I:87:ARG:HB2	3:I:524:LEU:CD1	2.26	0.65
2:H:110:GLU:HG3	2:H:369:PRO:HB3	1.79	0.65
3:N:853:VAL:HG22	3:N:858:VAL:HG23	1.78	0.65
1:A:58:ILE:HG21	1:A:68:ILE:CD1	2.27	0.65
2:C:191:PHE:HZ	2:C:196:LEU:HD12	1.61	0.65
2:H:291:ALA:O	2:H:292:ARG:HD3	1.96	0.65
3:D:1438:ALA:O	3:D:1443:THR:HG22	1.96	0.65
2:H:497:ALA:HA	2:H:515:ALA:HA	1.77	0.65
3:N:1109:GLU:HG2	3:N:1202:GLN:H	1.61	0.65
1:G:84:GLU:CG	1:G:127:LEU:HD21	2.25	0.65
3:I:880:ILE:HG22	3:I:881:LEU:N	2.10	0.65
2:M:189:ARG:HH12	2:M:190:LYS:HD2	1.61	0.65
4:J:16:LYS:HG2	4:J:17:TYR:CD1	2.31	0.65
2:C:284:ARG:HG2	2:C:285:LEU:N	2.10	0.65
2:M:870:ILE:N	2:M:870:ILE:HD13	2.11	0.65
3:N:1367:HIS:HA	3:N:1370:ILE:HD12	1.79	0.65
1:G:56:VAL:HB	1:G:165:ILE:HD11	1.78	0.65
3:I:908:LYS:CB	3:I:1027:GLY:HA3	2.23	0.65
2:C:224:GLU:HB2	2:C:228:ALA:HB2	1.78	0.65
2:C:227:PHE:HE2	2:C:237:ARG:HE	1.45	0.65
3:I:179:VAL:HG21	3:I:189:GLN:HE22	1.60	0.65
1:G:185:ARG:C	1:G:185:ARG:HD2	2.16	0.65
3:N:925:GLU:OE1	4:O:6:ILE:HG22	1.96	0.65
1:G:202:ASP:OD1	1:G:203:GLY:N	2.29	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:1067:TYR:O	2:M:1071:ILE:HG13	1.96	0.65
7:X:58:ILE:HG22	7:X:59:GLU:N	2.10	0.65
2:H:239:PHE:CZ	2:H:252:LYS:HG2	2.32	0.65
3:I:119:SER:OG	3:I:123:LEU:HD22	1.97	0.65
3:N:811:GLU:O	3:N:815:ALA:HB3	1.97	0.65
1:K:184:THR:HG22	1:K:185:ARG:N	2.11	0.65
2:M:966:LEU:HD21	2:M:986:PRO:CG	2.27	0.65
3:D:128:TYR:CE2	3:D:458:ALA:HA	2.27	0.65
2:H:41:ASN:O	2:H:41:ASN:OD1	2.14	0.65
1:G:84:GLU:HG2	1:G:127:LEU:HD21	1.77	0.65
2:M:376:ARG:HB3	2:M:377:PRO:HD3	1.77	0.65
3:I:1274:ILE:HG13	3:I:1334:GLN:HE21	1.62	0.65
2:C:50:GLU:HG2	2:C:51:THR:HG23	1.78	0.65
7:Y:91:LEU:HB3	7:Y:149:PHE:HB3	1.76	0.65
3:I:495:ARG:O	3:I:499:VAL:HG23	1.97	0.65
3:D:1086:LEU:N	3:D:1086:LEU:HD12	2.11	0.65
2:C:678:PRO:HG3	2:C:873:PRO:HD2	1.79	0.65
2:C:874:LEU:HD21	3:D:787:LEU:HD23	1.78	0.65
2:C:278:GLU:OE1	2:C:283:ILE:HG22	1.96	0.65
3:N:704:ARG:CB	3:N:736:PHE:HB3	2.24	0.65
3:N:525:ARG:HG2	3:N:525:ARG:O	1.96	0.65
2:M:173:ASP:OD1	2:M:185:LYS:HB2	1.97	0.65
3:N:1021:TYR:CE2	3:N:1025:GLN:CG	2.79	0.65
3:D:637:LEU:HD21	3:D:642:CYS:CA	2.20	0.65
2:H:742:VAL:HG12	2:H:743:VAL:N	2.11	0.65
2:H:1070:ILE:HG21	3:I:655:PRO:HB2	1.79	0.65
3:N:15:PRO:HA	3:N:18:ILE:HD12	1.78	0.65
1:B:24:VAL:HG22	1:B:196:THR:HG22	1.77	0.65
3:N:1195:GLN:HG3	3:N:1196:THR:N	2.11	0.65
2:H:45:GLN:O	2:H:48:PHE:HB2	1.96	0.65
1:F:62:LEU:HD12	1:F:62:LEU:N	2.11	0.65
3:N:526:PRO:C	3:N:537:THR:HA	2.16	0.65
7:Z:125:MET:HA	7:Z:140:LEU:HD11	1.79	0.65
3:N:166:GLN:HG2	3:N:396:VAL:HG12	1.79	0.65
3:I:166:GLN:HE22	3:I:394:LEU:HB2	1.60	0.65
3:I:433:GLY:HA3	3:I:447:VAL:O	1.97	0.65
2:M:237:ARG:HH11	2:M:237:ARG:HG3	1.60	0.65
1:B:35:THR:O	1:B:39:PRO:HG2	1.95	0.65
3:N:827:ILE:C	3:N:828:LYS:HG3	2.17	0.65
3:I:963:TYR:CD2	3:I:1002:LYS:HD3	2.31	0.65
3:I:1258:ARG:HH21	3:I:1351:GLU:HG2	1.60	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:185:ARG:HH12	3:N:689:ASP:HA	1.60	0.65
2:M:549:PHE:CG	2:M:886:LEU:HD23	2.32	0.65
2:C:502:PRO:HB2	2:C:509:ALA:HB3	1.77	0.65
2:H:625:LEU:HD11	2:H:641:PRO:HG3	1.79	0.65
3:N:1403:LEU:O	3:N:1407:LEU:HD13	1.96	0.65
7:X:115:THR:CB	7:X:116:PRO:HD3	2.27	0.65
2:H:163:ILE:HD12	2:H:164:PRO:N	2.11	0.65
2:H:239:PHE:CE1	2:H:252:LYS:HA	2.32	0.65
3:N:127:LEU:HD12	3:N:127:LEU:C	2.17	0.65
2:H:328:LEU:H	2:H:433:THR:HG21	1.61	0.65
7:X:99:ARG:CG	7:X:99:ARG:HH11	2.09	0.65
3:I:853:VAL:HG22	3:I:858:VAL:HG23	1.78	0.65
3:N:613:ARG:NH1	3:N:616:GLN:HB3	2.11	0.65
3:N:409:VAL:HG12	3:N:410:SER:N	2.12	0.65
3:I:1288:GLU:O	3:I:1307:LYS:HG2	1.97	0.65
7:X:33:LEU:HD12	7:X:51:ALA:HB1	1.79	0.65
1:B:103:ALA:HB1	1:B:107:LYS:HD3	1.77	0.65
3:I:493:ARG:HG3	3:I:494:LYS:H	1.61	0.65
2:H:495:THR:HG23	2:H:517:ARG:HE	1.61	0.65
3:D:810:GLU:HG3	3:D:811:GLU:N	2.10	0.65
3:N:1263:PHE:HB3	3:N:1424:VAL:CG1	2.26	0.65
3:N:1348:LEU:HD23	3:N:1372:VAL:HG23	1.79	0.65
3:I:1321:ALA:HB3	3:I:1339:LYS:HD3	1.79	0.65
3:I:29:PRO:HD3	3:I:548:ILE:HG22	1.77	0.65
2:C:1004:LYS:HD2	3:D:744:GLN:NE2	2.11	0.65
2:M:264:PRO:CB	2:M:289:THR:HG21	2.25	0.65
1:G:59:GLU:HB2	1:G:137:ARG:NH1	2.08	0.65
4:E:37:ASN:N	4:E:37:ASN:ND2	2.45	0.65
3:I:1217:ILE:HB	3:I:1480:PHE:CD2	2.32	0.65
3:I:686:GLU:HA	3:I:689:ASP:OD2	1.97	0.65
1:A:206:THR:H	1:A:209:GLU:HG3	1.61	0.65
1:F:57:TYR:CZ	1:F:161:ARG:HD2	2.32	0.65
1:F:58:ILE:HD12	1:F:58:ILE:N	2.11	0.65
2:M:564:MET:HE1	2:M:846:LYS:HE2	1.78	0.65
1:A:225:PHE:CE2	1:B:25:LEU:HD13	2.32	0.65
3:N:1459:LEU:HD22	3:N:1470:ARG:HH21	1.60	0.65
2:M:6:PHE:HZ	2:M:901:TYR:HD2	1.44	0.65
2:M:294:GLU:HG2	2:M:295:ASP:N	2.12	0.65
3:N:53:ILE:HG13	3:N:53:ILE:O	1.96	0.65
2:M:794:PRO:HG2	2:M:1025:ALA:O	1.97	0.65
2:C:872:ASN:HD21	2:C:874:LEU:HB2	1.62	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1348:LEU:HD23	3:D:1372:VAL:HG23	1.77	0.65
3:N:185:VAL:HG21	3:N:203:ALA:HB2	1.78	0.65
3:I:1219:GLU:OE1	4:J:17:TYR:OH	2.12	0.65
3:D:52:PRO:CB	3:D:80:VAL:HG11	2.21	0.65
2:C:265:ARG:HB3	2:C:267:TYR:CD2	2.32	0.65
2:H:679:PHE:HB2	2:H:683:ASN:HD21	1.61	0.65
3:N:1205:TYR:HE1	3:N:1370:ILE:HD11	1.62	0.65
3:I:813:LEU:HD12	3:I:814:ALA:CA	2.27	0.65
2:M:197:LEU:HD13	2:M:207:LEU:HD11	1.79	0.65
4:E:58:PRO:HG2	4:E:59:ASN:H	1.62	0.65
1:F:66:SER:O	1:F:75:VAL:HG23	1.97	0.65
3:I:160:GLU:OE1	3:I:161:LEU:HD12	1.96	0.65
2:H:545:ASN:OD1	2:H:905:ILE:HG13	1.96	0.65
1:K:153:ALA:HA	1:K:156:HIS:CE1	2.32	0.65
1:F:26:GLU:HB2	1:F:194:LYS:HA	1.77	0.65
1:G:24:VAL:HG22	1:G:196:THR:HG22	1.78	0.65
2:M:720:GLU:HA	2:M:759:THR:O	1.97	0.65
2:C:1100:GLN:NE2	2:C:1100:GLN:HA	2.12	0.65
2:C:773:LEU:O	2:C:777:ILE:HG12	1.97	0.65
3:I:1137:ARG:O	3:I:1141:GLU:HG3	1.97	0.65
2:M:593:ALA:HB1	2:M:659:PRO:HD2	1.77	0.65
3:N:166:GLN:HE22	3:N:394:LEU:CB	2.03	0.64
3:I:795:VAL:CG2	3:I:879:ARG:HH12	2.07	0.64
3:D:87:ARG:HB3	3:D:523:ASP:CB	2.14	0.64
3:N:829:VAL:HG12	3:N:830:ALA:N	2.10	0.64
3:D:705:ALA:CB	3:D:706:PRO:HD3	2.26	0.64
2:M:98:LEU:H	2:M:98:LEU:HD12	1.62	0.64
2:M:313:LEU:HD13	2:M:321:GLU:O	1.96	0.64
3:I:1148:VAL:O	3:I:1188:VAL:HG23	1.97	0.64
2:M:606:VAL:HG21	2:M:645:VAL:N	2.12	0.64
1:G:86:VAL:HG13	1:G:86:VAL:O	1.95	0.64
2:H:1097:LEU:CG	3:I:10:ILE:HG23	2.26	0.64
2:C:21:ILE:HD12	2:C:21:ILE:N	2.08	0.64
2:C:1074:GLU:HG2	2:C:1075:ASP:N	2.08	0.64
2:H:536:PRO:HB3	2:H:906:PHE:HD1	1.62	0.64
2:M:723:THR:HG23	2:M:725:ASP:H	1.61	0.64
3:N:639:LEU:HD13	3:N:766:ALA:HB2	1.78	0.64
1:B:44:LEU:HA	1:B:48:ILE:HD13	1.78	0.64
1:F:33:GLY:O	1:F:195:LEU:HD22	1.96	0.64
3:N:1108:ARG:NH2	3:N:1198:TYR:O	2.29	0.64
3:N:893:GLU:O	3:N:896:ALA:HB3	1.96	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1189:ARG:HG3	3:N:1189:ARG:HH11	1.62	0.64
3:N:135:LEU:HD23	3:N:149:LYS:O	1.97	0.64
3:D:133:ILE:O	3:D:152:LEU:CB	2.37	0.64
3:D:397:LYS:HG2	3:D:448:GLU:CB	2.27	0.64
1:G:74:ASP:HB2	3:I:872:ARG:NH2	2.12	0.64
3:I:563:PRO:HG3	2:M:180:GLY:O	1.97	0.64
3:N:1453:ALA:O	3:N:1455:LYS:N	2.30	0.64
2:M:676:ILE:HG21	2:M:988:VAL:HG13	1.78	0.64
3:D:1381:VAL:HG21	3:D:1391:GLU:HB2	1.79	0.64
2:H:896:PHE:O	2:H:924:VAL:HG11	1.97	0.64
1:L:94:LEU:HD11	1:L:119:ASP:HB2	1.79	0.64
2:M:436:GLY:HA2	2:M:538:GLN:O	1.97	0.64
2:H:500:ASN:HD22	2:H:500:ASN:N	1.94	0.64
3:N:1159:ARG:HH11	3:N:1159:ARG:HG2	1.62	0.64
7:Z:139:SER:OG	7:Z:148:GLU:HG3	1.98	0.64
1:B:36:LEU:O	1:B:39:PRO:HD2	1.97	0.64
3:I:800:LYS:CG	3:I:826:PRO:HD3	2.16	0.64
3:D:860:LEU:HD22	3:D:878:GLY:CA	2.26	0.64
2:H:878:SER:CB	3:I:1029:ARG:NH1	2.61	0.64
2:M:140:ILE:CD1	2:M:412:ALA:HA	2.27	0.64
1:K:184:THR:OG1	1:K:192:LEU:CB	2.44	0.64
1:F:82:LEU:O	1:F:85:LEU:HB3	1.97	0.64
2:C:158:TYR:CD1	2:C:158:TYR:N	2.65	0.64
2:M:139:GLN:NE2	2:M:414:GLY:HA3	2.12	0.64
1:K:65:PHE:CE1	2:M:799:ILE:HD12	2.32	0.64
2:M:283:ILE:HG23	2:M:284:ARG:N	2.12	0.64
3:N:170:PRO:HA	3:N:392:SER:OG	1.98	0.64
2:M:305:PRO:HA	2:M:308:ARG:HB2	1.79	0.64
2:M:265:ARG:HD3	2:M:267:TYR:CD1	2.32	0.64
1:F:20:TYR:CE2	1:F:198:ARG:HB2	2.31	0.64
7:Y:102:VAL:HG13	7:Y:103:GLN:N	2.11	0.64
2:H:129:ILE:HG22	2:H:130:ASN:N	2.11	0.64
2:M:559:LEU:C	2:M:559:LEU:HD23	2.17	0.64
2:C:690:ILE:HG13	2:C:694:LEU:HD12	1.79	0.64
4:J:30:LEU:HD21	4:J:63:TRP:HB2	1.80	0.64
2:M:369:PRO:HG2	2:M:370:ALA:N	2.05	0.64
2:C:939:ARG:NE	2:C:939:ARG:HA	1.99	0.64
2:C:162:ILE:O	2:C:164:PRO:HD3	1.98	0.64
3:I:1443:THR:O	3:I:1447:LEU:HD13	1.98	0.64
2:M:946:ARG:O	2:M:950:LEU:HB2	1.97	0.64
3:I:62:LYS:HB2	3:I:73:CYS:SG	2.36	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1000:THR:O	3:D:1003:VAL:HG12	1.97	0.64
2:H:611:ILE:HG12	2:H:625:LEU:HD21	1.79	0.64
2:M:462:ASP:HB3	2:M:468:ARG:HD3	1.79	0.64
2:M:580:MET:HB3	2:M:584:GLU:CD	2.18	0.64
3:D:138:LYS:HD3	3:D:138:LYS:N	2.11	0.64
3:N:507:ASN:HD22	3:N:507:ASN:N	1.95	0.64
7:X:36:LEU:HD13	7:X:47:GLY:O	1.96	0.64
2:C:673:LEU:HB3	2:C:868:ASP:OD1	1.98	0.64
4:O:48:MET:N	4:O:54:LEU:HB2	2.13	0.64
2:M:110:GLU:HG3	2:M:369:PRO:CG	2.27	0.64
2:H:52:PHE:CD1	2:H:53:PRO:N	2.66	0.64
2:M:157:ARG:HD3	2:M:314:THR:CG2	2.27	0.64
2:C:183:SER:C	2:C:193:LEU:HD11	2.18	0.64
3:I:501:ALA:HB3	3:I:1452:ILE:HG22	1.78	0.64
3:I:1319:VAL:HA	3:I:1323:GLN:NE2	2.12	0.64
1:L:187:GLY:O	3:N:688:TRP:HD1	1.81	0.64
1:B:177:VAL:HG12	1:B:199:ILE:CD1	2.27	0.64
2:H:524:VAL:HG12	2:H:525:SER:H	1.63	0.64
4:O:70:THR:HG21	4:O:72:ARG:CZ	2.28	0.64
1:L:20:TYR:CD2	1:L:21:GLY:N	2.66	0.64
3:D:1197:ARG:HB3	3:D:1396:GLU:CD	2.18	0.64
3:N:507:ASN:HD22	3:N:507:ASN:H	1.44	0.64
2:M:690:ILE:HD13	2:M:691:SER:N	2.12	0.64
3:D:1041:LEU:HD12	3:D:1058:ARG:C	2.18	0.64
2:C:200:LEU:HD13	2:C:300:ASP:CG	2.18	0.64
3:D:812:ALA:HB1	3:D:816:HIS:HD2	1.63	0.64
3:D:145:VAL:HG22	3:D:146:PRO:HD2	1.78	0.64
3:N:1366:LYS:O	3:N:1369:GLU:HB2	1.97	0.64
2:C:113:VAL:HG11	2:C:373:VAL:HB	1.79	0.64
3:I:133:ILE:HG22	3:I:134:VAL:N	2.13	0.64
2:M:1012:PRO:HD3	2:M:1026:GLN:CB	2.27	0.64
1:L:20:TYR:HD2	1:L:21:GLY:N	1.95	0.64
3:D:984:THR:HG22	3:D:987:GLU:CG	2.28	0.64
2:H:1005:MET:O	2:H:1005:MET:CG	2.46	0.64
2:H:810:ASP:HB3	2:H:813:VAL:HG12	1.80	0.64
2:H:239:PHE:CE2	2:H:252:LYS:HG2	2.32	0.64
3:D:1453:ALA:O	3:D:1455:LYS:N	2.31	0.64
1:K:211:LEU:O	1:K:215:VAL:HG23	1.98	0.64
3:I:886:VAL:HG13	3:I:930:LEU:HD11	1.79	0.64
2:C:333:ILE:HG12	2:C:410:ILE:HD11	1.78	0.64
3:N:781:PRO:HB2	3:N:786:ILE:HD11	1.79	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:50:PHE:O	3:I:89:ARG:HD2	1.98	0.64
2:H:110:GLU:CG	2:H:369:PRO:HB3	2.28	0.64
2:M:221:LEU:HD12	2:M:222:MET:N	2.13	0.64
3:D:116:LEU:O	3:D:116:LEU:HD23	1.97	0.64
2:M:882:LEU:HA	2:M:885:ILE:HD13	1.79	0.64
3:I:1257:PRO:HA	3:I:1260:ILE:CD1	2.26	0.64
3:I:650:LEU:HD22	3:I:688:TRP:CH2	2.33	0.64
1:F:99:LEU:N	1:F:99:LEU:HD13	2.12	0.64
2:H:84:ARG:NE	2:H:128:ILE:HD11	2.13	0.64
3:D:1401:GLU:OE2	3:D:1402:ALA:N	2.31	0.64
3:N:414:ARG:N	3:N:414:ARG:HD2	2.13	0.64
1:G:162:ILE:N	1:G:162:ILE:HD13	2.12	0.64
2:C:63:GLY:N	2:C:103:LYS:HG3	2.13	0.64
2:M:470:PRO:HB3	2:M:485:TYR:CE2	2.33	0.64
2:C:601:GLY:HA2	2:C:616:GLU:HG2	1.80	0.64
2:H:425:PHE:HE1	3:I:1079:LYS:NZ	1.89	0.64
2:C:1084:SER:HB3	3:D:617:ASN:ND2	2.10	0.64
3:D:52:PRO:C	3:D:86:ARG:HD3	2.18	0.64
3:N:1026:SER:C	3:N:1028:ALA:H	2.00	0.64
2:H:556:ASN:CG	7:Y:45:ASP:OD1	2.36	0.64
3:D:348:GLN:HB2	3:D:351:MET:SD	2.38	0.64
3:I:996:TRP:CE3	3:I:999:THR:HG21	2.33	0.64
2:M:174:LEU:CD2	2:M:184:MET:HG3	2.28	0.64
2:M:200:LEU:HD11	2:M:202:TYR:CD2	2.33	0.64
3:I:1045:MET:O	3:I:1053:PHE:HB2	1.97	0.64
3:N:179:VAL:HG21	3:N:189:GLN:NE2	2.10	0.64
3:I:729:HIS:CE1	3:I:731:LEU:HB2	2.33	0.64
1:K:35:THR:HG21	1:L:43:ILE:HD11	1.79	0.64
1:B:102:LYS:HB2	1:B:139:ASN:OD1	1.98	0.64
1:F:218:LEU:HD23	1:G:222:LEU:HD21	1.80	0.64
1:F:218:LEU:HD23	1:G:222:LEU:HD11	1.79	0.64
3:D:1137:ARG:O	3:D:1141:GLU:HG3	1.97	0.64
2:M:554:ASP:OD2	2:M:556:ASN:HB3	1.98	0.64
3:D:1263:PHE:HB3	3:D:1424:VAL:HG11	1.79	0.64
3:I:206:ARG:NH2	3:I:438:ASP:OD1	2.30	0.64
3:D:1095:THR:O	3:D:1099:VAL:CG2	2.43	0.64
3:I:841:TYR:HB3	3:I:843:PHE:CE1	2.33	0.64
3:D:866:VAL:HG11	3:D:880:ILE:CD1	2.26	0.64
1:G:79:ILE:HG13	1:G:80:LEU:N	2.13	0.64
3:N:522:PRO:HA	3:N:525:ARG:NH1	2.13	0.64
1:B:123:MET:O	1:B:125:PRO:HD3	1.98	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:794:PRO:HG2	2:C:1025:ALA:C	2.18	0.64
2:M:309:TYR:CE2	2:M:321:GLU:HB3	2.33	0.64
2:M:1092:LEU:HD21	3:N:1447:LEU:HD23	1.80	0.64
2:H:251:ASP:OD2	2:H:251:ASP:O	2.15	0.64
2:H:1030:GLN:CD	3:I:628:ARG:HD3	2.17	0.64
1:F:26:GLU:HG2	1:F:27:PRO:HG3	1.79	0.64
1:B:12:THR:OG1	1:B:24:VAL:HB	1.97	0.64
3:N:105:VAL:HG22	3:N:112:ILE:HG21	1.80	0.64
2:M:794:PRO:HG2	2:M:1025:ALA:HA	1.80	0.64
2:C:730:SER:O	2:C:734:LEU:HD13	1.97	0.64
2:H:199:VAL:HG21	2:H:238:LEU:CD1	2.27	0.63
2:C:1092:LEU:CD1	2:C:1099:VAL:HG21	2.20	0.63
3:I:842:VAL:HA	3:I:865:THR:OG1	1.97	0.63
3:N:139:GLY:O	3:N:147:VAL:HB	1.97	0.63
1:F:188:GLN:HE21	1:F:188:GLN:N	1.96	0.63
2:H:878:SER:HA	3:I:1034:GLN:HE22	1.63	0.63
2:C:64:LEU:HB2	2:C:359:MET:SD	2.37	0.63
3:D:683:ILE:HG21	3:D:688:TRP:CE2	2.32	0.63
2:M:950:LEU:HD12	2:M:952:LEU:HD21	1.79	0.63
7:Y:115:THR:HB	7:Y:116:PRO:HD3	1.80	0.63
2:M:768:THR:HB	2:M:771:GLU:HB3	1.80	0.63
3:N:1168:MET:HA	3:N:1168:MET:HE3	1.80	0.63
2:H:338:GLU:O	2:H:341:THR:HG22	1.97	0.63
2:H:415:PRO:HD2	2:H:418:LEU:HD13	1.80	0.63
2:C:1096:ALA:HB2	3:D:101:HIS:NE2	2.13	0.63
1:K:41:ARG:HG3	1:K:177:VAL:CG1	2.28	0.63
1:K:88:ARG:C	1:K:120:VAL:HG23	2.17	0.63
3:N:826:PRO:HD2	3:N:829:VAL:CG2	2.27	0.63
2:H:688:ILE:HD11	2:H:847:GLY:HA3	1.80	0.63
3:N:838:ARG:HB3	3:N:865:THR:HG23	1.80	0.63
2:M:211:LEU:HD23	2:M:221:LEU:CD2	2.27	0.63
2:M:338:GLU:CA	2:M:341:THR:HG22	2.28	0.63
2:H:316:GLY:C	2:H:318:PRO:HD3	2.19	0.63
2:H:1001:VAL:HB	3:I:724:GLN:OE1	1.98	0.63
7:Y:104:VAL:HG22	7:Y:119:ILE:HD12	1.79	0.63
3:N:353:VAL:HG12	3:N:368:VAL:CG2	2.29	0.63
2:M:897:LEU:HB3	2:M:899:GLN:NE2	2.13	0.63
2:M:632:ASN:HB3	2:M:633:GLN:NE2	2.11	0.63
1:F:196:THR:OG1	2:H:934:PHE:HZ	1.79	0.63
1:G:41:ARG:HG3	1:G:177:VAL:CG2	2.28	0.63
3:D:1399:ASP:O	3:D:1403:LEU:HB2	1.98	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:189:ARG:HG3	1:K:191:ASP:OD1	1.98	0.63
3:D:660:LYS:HZ1	3:D:660:LYS:HA	1.64	0.63
1:A:24:VAL:HG13	1:A:196:THR:HG22	1.80	0.63
3:N:1156:LEU:HD12	3:N:1176:LYS:HE3	1.79	0.63
2:H:288:ARG:HH11	2:H:288:ARG:HB2	1.61	0.63
2:C:1085:PHE:CE1	2:C:1111:ILE:HG21	2.33	0.63
3:D:51:GLY:C	3:D:86:ARG:NE	2.52	0.63
3:N:160:GLU:HG2	3:N:165:LYS:CG	2.28	0.63
4:O:41:GLU:OE1	4:O:42:PRO:HD3	1.98	0.63
3:D:804:LEU:CB	3:D:830:ALA:O	2.46	0.63
3:N:1369:GLU:O	3:N:1372:VAL:HG12	1.97	0.63
2:C:4:LYS:NZ	2:C:917:LEU:HD21	2.14	0.63
3:D:704:ARG:NH2	6:Q:10:G:O2'	2.32	0.63
3:N:1000:THR:HG23	3:N:1001:GLU:N	2.12	0.63
2:H:234:ALA:HA	2:H:237:ARG:HB2	1.79	0.63
2:H:158:TYR:CE1	2:H:313:LEU:HD11	2.32	0.63
7:X:147:ARG:CZ	7:X:149:PHE:HZ	2.11	0.63
3:I:1066:THR:HG22	3:I:1069:GLU:HB2	1.81	0.63
2:H:626:ARG:H	2:H:639:GLN:NE2	1.95	0.63
7:Y:5:VAL:HG12	7:Y:72:ALA:CB	2.28	0.63
1:A:47:SER:HG	1:B:32:PHE:HZ	1.46	0.63
2:C:516:ARG:NE	3:D:1068:LEU:HD22	2.14	0.63
3:D:1018:ASN:O	3:D:1022:VAL:HG23	1.99	0.63
3:D:1366:LYS:O	3:D:1369:GLU:HB2	1.97	0.63
3:I:1209:LEU:HD21	4:J:16:LYS:HZ2	1.62	0.63
2:C:282:GLY:O	2:C:283:ILE:HD13	1.98	0.63
3:D:205:TYR:CD1	3:D:390:PRO:HG3	2.33	0.63
2:M:267:TYR:CB	2:M:272:ALA:CB	2.74	0.63
1:G:86:VAL:CG1	1:G:124:ASN:HB2	2.24	0.63
2:M:1066:ALA:O	2:M:1070:ILE:HG13	1.99	0.63
2:M:585:GLU:HG2	2:M:665:PHE:CE2	2.33	0.63
3:I:731:LEU:HD13	3:I:931:LEU:HD22	1.79	0.63
2:M:339:LEU:HD11	2:M:391:LEU:HD13	1.81	0.63
3:I:1176:LYS:O	3:I:1179:GLU:HB2	1.97	0.63
2:M:108:ILE:HD12	2:M:108:ILE:N	2.13	0.63
7:Z:92:GLU:HA	7:Z:98:GLU:O	1.98	0.63
2:C:492:ASP:OD2	2:C:518:LYS:HG3	1.98	0.63
7:Z:33:LEU:HD11	7:Z:52:LYS:HG2	1.79	0.63
3:D:119:SER:HB2	3:D:123:LEU:H	1.63	0.63
3:D:135:LEU:HD13	3:D:148:GLU:O	1.98	0.63
3:D:1071:PHE:O	3:D:1074:SER:HB3	1.98	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:110:GLU:HB2	2:H:368:THR:HG22	1.81	0.63
3:N:1438:ALA:O	3:N:1443:THR:HG22	1.99	0.63
3:D:104:PHE:O	3:D:112:ILE:HG22	1.99	0.63
3:I:969:ARG:HG3	3:I:970:LYS:H	1.62	0.63
3:N:1066:THR:HG23	3:N:1069:GLU:H	1.63	0.63
3:I:1326:THR:CG2	3:I:1327:ARG:H	2.10	0.63
2:C:367:LEU:HB3	2:C:371:LYS:HE2	1.80	0.63
2:M:1063:ARG:HD3	2:M:1063:ARG:O	1.99	0.63
7:Y:6:LYS:HD2	7:Y:75:LEU:HD11	1.80	0.63
3:I:1403:LEU:O	3:I:1407:LEU:HB2	1.99	0.63
1:F:184:THR:HB	1:F:192:LEU:HB2	1.81	0.63
3:N:433:GLY:HA3	3:N:447:VAL:O	1.99	0.63
1:K:177:VAL:HG22	1:K:199:ILE:HG22	1.80	0.63
3:I:98:PRO:HG2	3:I:462:GLN:OE1	1.99	0.63
2:C:571:LEU:HD23	2:C:670:GLN:HG3	1.79	0.63
3:N:764:LEU:HD12	3:N:765:SER:H	1.64	0.63
3:D:1264:GLU:HG2	3:D:1266:ARG:HH21	1.64	0.63
1:G:20:TYR:OH	1:G:198:ARG:HD2	1.99	0.63
1:F:56:VAL:HG12	1:F:57:TYR:N	2.13	0.63
1:F:61:VAL:HG21	1:F:68:ILE:HD11	1.81	0.63
2:M:687:ALA:HB1	2:M:850:ALA:HB2	1.79	0.63
3:I:1402:ALA:HB2	3:I:1415:VAL:CG2	2.28	0.63
1:G:212:ASN:O	1:G:215:VAL:HG22	1.98	0.63
3:I:205:TYR:O	3:I:206:ARG:CG	2.45	0.63
3:I:204:LEU:HB2	3:I:394:LEU:CD2	2.29	0.63
3:I:163:TYR:HD1	2:M:209:ARG:HH22	1.43	0.63
3:D:52:PRO:CG	3:D:78:VAL:HG13	2.28	0.63
3:D:209:ARG:N	3:D:389:GLU:O	2.18	0.63
2:M:281:LEU:CG	2:M:282:GLY:N	2.61	0.63
3:D:695:ILE:HD11	3:D:718:PRO:HB2	1.80	0.63
2:C:571:LEU:HD21	2:C:699:PHE:O	1.99	0.63
2:H:937:ASP:HB3	2:H:940:GLU:HG3	1.81	0.63
3:N:642:CYS:HB3	3:N:716:PHE:CG	2.33	0.63
3:N:695:ILE:HD11	3:N:718:PRO:HB2	1.79	0.63
1:B:58:ILE:HG21	1:B:68:ILE:HD11	1.81	0.63
2:H:95:TYR:CD2	2:H:114:PHE:HB3	2.34	0.63
2:H:162:ILE:O	2:H:162:ILE:HG22	1.99	0.63
2:H:676:ILE:O	3:I:948:THR:HG22	1.99	0.63
1:K:91:ASN:H	1:K:94:LEU:HD12	1.63	0.63
2:C:862:PRO:HB3	2:C:929:ARG:HH22	1.64	0.63
3:I:820:GLU:HG2	3:I:825:ALA:O	1.99	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:827:ILE:HG23	3:I:837:GLY:HA2	1.81	0.63
2:M:872:ASN:ND2	2:M:874:LEU:HB2	2.12	0.63
3:N:804:LEU:CD2	3:N:831:GLY:HA3	2.23	0.63
2:H:875:GLY:O	2:H:879:ARG:HD2	1.98	0.63
3:I:87:ARG:O	3:I:524:LEU:HD11	1.98	0.63
2:C:831:ARG:HH12	2:C:1002:GLU:CB	2.11	0.63
2:M:677:MET:HA	2:M:873:PRO:CG	2.29	0.63
1:A:128:HIS:CE1	1:A:131:THR:HG23	2.34	0.63
3:D:14:SER:O	3:D:18:ILE:HG12	1.99	0.63
3:I:1397:LYS:HD2	3:I:1432:LYS:HZ2	1.62	0.63
4:O:6:ILE:O	4:O:9:LEU:HB2	1.98	0.63
3:I:571:LYS:O	3:I:574:LEU:HB3	1.99	0.63
3:N:584:ASN:ND2	3:N:590:PRO:HD2	2.13	0.63
2:M:905:ILE:N	2:M:905:ILE:CD1	2.61	0.63
2:H:279:GLU:HG3	2:H:280:LYS:N	2.13	0.63
2:H:193:LEU:H	2:H:193:LEU:CD1	2.12	0.63
3:N:358:GLY:CA	3:N:385:VAL:O	2.46	0.63
3:D:51:GLY:C	3:D:86:ARG:CD	2.67	0.63
3:N:1481:VAL:CG1	4:O:18:ARG:HA	2.11	0.63
2:C:836:GLY:CA	2:C:1001:VAL:HG21	2.26	0.63
2:C:174:LEU:HD23	2:C:184:MET:HA	1.80	0.63
2:M:670:GLN:NE2	2:M:699:PHE:O	2.31	0.63
1:F:76:VAL:HA	1:F:79:ILE:CG1	2.29	0.63
3:N:140:ALA:HB3	3:N:450:TYR:CE2	2.33	0.63
3:D:756:GLN:O	3:D:759:ALA:HB3	1.98	0.63
3:D:1161:GLU:HG2	3:D:1164:ARG:HB2	1.81	0.63
3:N:1129:THR:HG23	3:N:1130:ARG:H	1.63	0.63
3:N:180:LYS:HE2	3:N:386:HIS:ND1	2.14	0.63
2:C:78:PHE:HB3	2:C:79:PRO:HD2	1.81	0.63
2:H:17:PRO:O	2:H:20:GLU:HB3	1.99	0.63
3:N:550:ARG:HD3	3:N:573:MET:HB3	1.81	0.63
3:D:620:GLY:O	3:D:621:LYS:HG2	1.98	0.62
3:N:875:THR:CG2	3:N:876:SER:N	2.62	0.62
3:I:543:LEU:HD13	3:I:581:LEU:HA	1.80	0.62
3:N:23:TYR:O	3:N:49:ILE:HG23	1.99	0.62
2:M:207:LEU:HD23	2:M:207:LEU:C	2.19	0.62
2:M:157:ARG:NH1	2:M:314:THR:HB	2.14	0.62
2:H:260:LEU:CA	2:H:291:ALA:HB1	2.28	0.62
3:I:1062:ARG:CG	3:I:1062:ARG:HH11	2.11	0.62
7:Y:14:ARG:HH11	7:Y:14:ARG:CB	2.09	0.62
2:C:399:ASN:ND2	2:C:568:ALA:HB3	2.13	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:762:LYS:CG	2:C:763:GLY:N	2.62	0.62
2:H:445:GLU:HG3	2:H:560:MET:HE2	1.81	0.62
1:B:52:ALA:HB2	1:B:170:VAL:C	2.20	0.62
2:M:328:LEU:HB2	2:M:433:THR:HG21	1.81	0.62
3:D:810:GLU:C	3:D:812:ALA:H	2.01	0.62
3:N:98:PRO:O	3:N:458:ALA:HB3	1.99	0.62
3:N:1256:LEU:HB3	3:N:1257:PRO:HD3	1.81	0.62
3:N:1101:VAL:HG11	3:N:1424:VAL:HG23	1.81	0.62
3:D:510:GLU:O	3:D:513:ILE:HG13	1.98	0.62
3:D:1272:ALA:HA	3:D:1326:THR:HB	1.80	0.62
2:H:260:LEU:HD22	2:H:292:ARG:HH11	1.62	0.62
2:M:1052:MET:SD	2:M:1056:LYS:HD2	2.39	0.62
3:I:143:ASN:HB3	3:I:161:LEU:CD2	2.29	0.62
3:I:702:LEU:O	3:I:713:ILE:HG23	1.98	0.62
7:X:128:ALA:HB2	7:X:140:LEU:HD21	1.80	0.62
3:I:982:PHE:O	7:Y:123:SER:OG	2.16	0.62
2:M:1019:GLN:HG3	3:N:621:LYS:HZ3	1.64	0.62
1:G:19:GLU:HG3	1:G:201:THR:O	1.99	0.62
2:H:148:PHE:HE1	2:H:309:TYR:HB3	1.61	0.62
2:C:367:LEU:HB3	2:C:371:LYS:HE3	1.81	0.62
1:L:221:HIS:HA	1:L:224:TYR:HD2	1.64	0.62
1:G:62:LEU:HD13	1:G:63:HIS:CD2	2.34	0.62
2:M:997:LEU:C	2:M:999:HIS:H	2.02	0.62
2:M:541:SER:OG	2:M:542:VAL:N	2.31	0.62
2:H:191:PHE:O	2:H:193:LEU:HD12	1.99	0.62
2:H:267:TYR:CB	2:H:272:ALA:HB1	2.29	0.62
3:I:181:ASP:O	3:I:204:LEU:HA	2.00	0.62
2:M:204:GLN:NE2	2:M:228:ALA:CB	2.62	0.62
3:I:879:ARG:O	3:I:882:PHE:HB3	1.99	0.62
1:F:61:VAL:CG2	1:F:68:ILE:HD11	2.30	0.62
2:M:1042:ALA:HB2	3:N:1227:GLN:NE2	2.15	0.62
3:N:1280:VAL:HA	3:N:1318:TYR:HA	1.81	0.62
1:A:9:PRO:HB2	1:B:224:TYR:HB3	1.79	0.62
3:D:1488:ASP:O	3:D:1490:LYS:N	2.33	0.62
7:X:5:VAL:O	7:X:73:VAL:HG23	2.00	0.62
1:G:29:GLU:HB2	1:G:32:PHE:HD1	1.64	0.62
3:I:400:VAL:HG22	3:I:443:VAL:HG21	1.79	0.62
3:N:930:LEU:HD11	3:N:934:LEU:HD11	1.81	0.62
3:N:800:LYS:HB2	3:N:829:VAL:HG13	1.81	0.62
3:D:807:ALA:HA	3:D:833:GLU:HG2	1.80	0.62
3:D:881:LEU:HD21	3:D:941:PHE:HZ	1.64	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:521:PRO:HB2	3:N:524:LEU:HD13	1.81	0.62
1:L:59:GLU:HG3	1:L:137:ARG:HH22	1.63	0.62
2:H:204:GLN:OE1	2:H:204:GLN:N	2.33	0.62
3:I:984:THR:HG22	3:I:987:GLU:HG3	1.81	0.62
2:H:611:ILE:HD11	2:H:641:PRO:HG3	1.82	0.62
3:I:1299:PHE:HD2	3:I:1299:PHE:H	1.43	0.62
2:M:1101:THR:C	2:M:1102:LEU:HD12	2.18	0.62
1:A:61:VAL:HG13	1:A:66:SER:HB3	1.82	0.62
3:D:1299:PHE:N	3:D:1299:PHE:CD2	2.67	0.62
3:I:755:ALA:O	3:I:758:GLU:HG2	1.99	0.62
2:C:679:PHE:HB2	2:C:683:ASN:ND2	2.13	0.62
3:D:1105:ILE:CD1	3:D:1105:ILE:N	2.62	0.62
3:D:520:LEU:HD11	3:D:524:LEU:CD2	2.30	0.62
3:D:1047:LYS:HB3	3:D:1048:PRO:HD2	1.80	0.62
3:I:1472:ILE:H	3:I:1472:ILE:CD1	1.90	0.62
2:M:196:LEU:HD23	2:M:200:LEU:CD2	2.29	0.62
2:M:697:ARG:HD2	2:M:699:PHE:CE1	2.35	0.62
3:D:18:ILE:CG2	3:D:518:PRO:HG3	2.27	0.62
3:D:143:ASN:CB	3:D:161:LEU:HD21	2.28	0.62
1:F:25:LEU:HD22	1:G:225:PHE:HE2	1.64	0.62
4:O:68:LEU:HD12	4:O:73:LEU:HD13	1.81	0.62
2:C:754:ILE:H	2:C:754:ILE:HD12	1.64	0.62
3:D:1234:THR:HB	3:D:1235:GLN:OE1	2.00	0.62
3:D:1481:VAL:HG12	4:E:21:VAL:HG21	1.82	0.62
2:C:455:LEU:CD1	2:C:456:ALA:O	2.48	0.62
2:C:1081:VAL:HG21	2:C:1111:ILE:CG2	2.09	0.62
3:D:1123:PHE:HE2	3:D:1184:GLN:CA	2.03	0.62
2:H:1102:LEU:HB2	3:I:7:LYS:O	2.00	0.62
2:H:1091:GLU:OE1	3:I:613:ARG:HG2	1.99	0.62
3:N:206:ARG:CG	3:N:392:SER:H	2.12	0.62
2:C:946:ARG:HB3	2:C:946:ARG:HH11	1.65	0.62
2:M:332:ARG:CD	2:M:464:LEU:O	2.45	0.62
2:C:224:GLU:HB3	2:C:228:ALA:H	1.63	0.62
2:C:1105:LYS:NZ	2:C:1107:ASN:HB2	2.13	0.62
3:I:141:ILE:HG23	3:I:142:LEU:O	1.99	0.62
2:H:237:ARG:HH11	2:H:237:ARG:HG3	1.65	0.62
7:Y:125:MET:HA	7:Y:140:LEU:CD1	2.29	0.62
2:H:939:ARG:HD3	2:H:982:PRO:HD3	1.82	0.62
1:B:40:LEU:O	1:B:44:LEU:HG	1.99	0.62
2:H:897:LEU:HD21	2:H:921:ALA:CA	2.30	0.62
3:I:1310:ARG:O	3:I:1327:ARG:HG3	1.99	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:762:LYS:CG	2:C:763:GLY:H	2.12	0.62
2:H:611:ILE:HD11	2:H:625:LEU:HD11	1.80	0.62
1:G:41:ARG:NH1	1:G:177:VAL:HG23	2.15	0.62
1:F:69:PRO:O	1:F:71:VAL:HG23	2.00	0.62
7:Z:85:LEU:CD2	7:Z:104:VAL:HG12	2.29	0.62
7:Y:92:GLU:HA	7:Y:98:GLU:O	1.98	0.62
3:D:415:VAL:HG13	3:D:419:ASP:HB2	1.82	0.62
7:Y:26:LEU:HD11	7:Y:55:LYS:HE2	1.80	0.62
1:L:101:LEU:HD12	1:L:114:PHE:N	2.14	0.62
1:G:55:SER:OG	1:G:158:ILE:HB	1.97	0.62
2:C:170:PRO:HD3	2:C:263:ASP:HB3	1.81	0.62
2:C:1032:PHE:CD2	2:C:1037:VAL:HG22	2.35	0.62
2:C:139:GLN:HE22	2:C:415:PRO:CD	2.12	0.62
2:M:54:ILE:HG21	2:M:66:LEU:HB3	1.82	0.62
3:D:209:ARG:CB	3:D:389:GLU:CB	2.77	0.62
3:D:204:LEU:HD23	3:D:394:LEU:CD1	2.29	0.62
2:H:1049:LEU:O	2:H:1053:LEU:HG	2.00	0.62
3:I:458:ALA:HB2	3:I:575:GLN:NE2	2.14	0.62
3:D:639:LEU:N	3:D:729:HIS:CD2	2.67	0.62
3:I:1369:GLU:HA	3:I:1372:VAL:CG1	2.29	0.62
2:H:88:LEU:HD13	2:H:89:THR:H	1.64	0.62
2:H:352:ALA:CA	2:H:355:VAL:HG12	2.30	0.62
2:C:650:ARG:HG2	2:C:653:ASP:OD2	1.99	0.62
3:I:1326:THR:CG2	3:I:1327:ARG:N	2.63	0.62
2:M:524:VAL:HG12	2:M:525:SER:H	1.63	0.62
3:N:988:ARG:HD3	3:N:992:ILE:HD11	1.81	0.62
7:X:26:LEU:HD13	7:X:58:ILE:CG2	2.28	0.62
7:Z:85:LEU:HD22	7:Z:104:VAL:HG12	1.80	0.62
2:C:47:ALA:HB1	2:C:345:ARG:HB3	1.82	0.62
2:C:683:ASN:HB2	2:C:872:ASN:HB2	1.82	0.62
3:D:1041:LEU:HD23	3:D:1041:LEU:O	1.99	0.62
3:D:135:LEU:HD21	3:D:137:PRO:O	2.00	0.62
3:I:911:LEU:O	3:I:915:VAL:HG23	1.98	0.62
2:C:144:PRO:O	2:C:276:LYS:NZ	2.26	0.62
3:N:1401:GLU:OE2	3:N:1402:ALA:N	2.32	0.62
3:D:835:SER:H	3:D:838:ARG:CD	2.13	0.62
2:M:211:LEU:HD23	2:M:221:LEU:HD21	1.81	0.62
2:M:304:LEU:CD2	2:M:305:PRO:HD3	2.30	0.62
2:M:305:PRO:HA	2:M:308:ARG:CB	2.30	0.62
2:M:676:ILE:HG23	2:M:988:VAL:HG13	1.81	0.62
3:I:126:VAL:O	3:I:130:SER:HB3	1.99	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:1189:ARG:HD2	3:I:1204:CYS:SG	2.39	0.62
2:H:524:VAL:CG1	2:H:525:SER:N	2.63	0.62
3:D:996:TRP:HA	3:D:999:THR:CG2	2.30	0.62
1:F:226:SER:O	1:F:228:PRO:HD3	1.99	0.62
3:D:1194:CYS:HB3	3:D:1373:ARG:NH1	2.14	0.62
2:H:889:HIS:CD2	2:H:970:GLY:HA3	2.34	0.62
2:M:537:LYS:HA	2:M:545:ASN:HD21	1.65	0.62
2:H:816:LYS:HB2	2:H:819:VAL:HG21	1.82	0.62
2:H:146:VAL:HG13	2:H:161:SER:O	1.99	0.62
2:M:135:VAL:HG11	2:M:407:LYS:HA	1.82	0.62
2:M:455:LEU:CD1	2:M:456:ALA:O	2.48	0.62
3:I:1112:CYS:HB2	3:I:1195:GLN:CG	2.30	0.62
3:I:1112:CYS:HB2	3:I:1195:GLN:OE1	1.99	0.62
2:M:602:GLU:HB2	2:M:648:ARG:NH2	2.14	0.62
3:D:54:LYS:CD	3:D:55:ASP:H	2.12	0.62
7:Z:82:VAL:HG22	7:Z:133:ARG:HB2	1.82	0.62
2:H:630:ARG:HH21	2:H:706:GLU:HA	1.65	0.62
1:B:65:PHE:CD1	1:B:65:PHE:N	2.67	0.62
2:M:693:GLU:HA	2:M:696:LYS:HD2	1.82	0.62
3:I:58:CYS:HB2	3:I:78:VAL:HB	1.82	0.62
2:M:1061:GLU:OE2	3:N:82:LYS:HD3	1.99	0.62
2:H:342:ASP:O	2:H:345:ARG:HG2	1.99	0.62
2:C:873:PRO:HB3	3:D:949:ILE:CD1	2.30	0.62
3:D:1107:VAL:HG12	3:D:1217:ILE:HA	1.82	0.62
2:H:676:ILE:HD12	2:H:871:LEU:O	1.99	0.62
3:N:1031:ASN:HB3	3:N:1034:GLN:HG3	1.82	0.62
3:D:367:ILE:HB	3:D:377:VAL:CG1	2.30	0.62
2:M:136:ILE:HD12	2:M:136:ILE:N	2.15	0.62
2:M:677:MET:HA	2:M:873:PRO:HG2	1.82	0.62
3:D:1128:VAL:CG1	3:D:1128:VAL:O	2.48	0.62
3:I:699:VAL:H	3:I:756:GLN:HE22	1.48	0.62
3:D:127:LEU:C	3:D:127:LEU:HD12	2.20	0.62
1:G:23:PHE:O	1:G:196:THR:HA	2.00	0.62
3:N:613:ARG:NH1	3:N:613:ARG:O	2.32	0.62
3:D:701:LEU:HD11	3:D:750:PRO:HG3	1.80	0.62
2:M:447:ALA:HA	3:N:1085:ALA:HB1	1.82	0.62
7:Y:75:LEU:HB3	7:Y:77:GLU:OE2	2.00	0.62
3:I:171:LEU:HD23	3:I:172:PRO:HD2	1.82	0.62
3:I:1488:ASP:O	3:I:1490:LYS:N	2.32	0.62
3:D:1280:VAL:HA	3:D:1318:TYR:HA	1.81	0.62
1:F:11:PHE:HE1	1:F:23:PHE:HB3	1.65	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:546:ARG:HG2	3:D:546:ARG:NH1	2.15	0.62
2:M:118:ILE:HG22	2:M:382:ILE:HD13	1.80	0.62
2:C:838:LYS:O	2:C:838:LYS:HG3	1.98	0.61
3:D:949:ILE:HD11	3:D:1023:MET:CE	2.29	0.61
3:I:798:GLU:CG	3:I:828:LYS:HE3	2.29	0.61
2:C:412:ALA:O	2:C:419:THR:HG23	1.99	0.61
4:O:41:GLU:N	4:O:42:PRO:CD	2.63	0.61
3:N:1098:LEU:HD23	3:N:1229:ILE:HB	1.81	0.61
3:D:204:LEU:HD13	3:D:441:ARG:HH12	1.64	0.61
1:B:81:ASN:O	1:B:84:GLU:HB3	1.99	0.61
2:C:983:ILE:HG22	2:C:983:ILE:O	1.98	0.61
3:I:1111:ASP:OD1	3:I:1203:LYS:HD2	2.00	0.61
3:N:1283:ILE:HD12	3:N:1292:VAL:HG22	1.81	0.61
3:I:704:ARG:CB	3:I:736:PHE:HB3	2.28	0.61
2:H:496:ILE:O	2:H:515:ALA:HB1	1.99	0.61
1:G:176:ARG:HD3	3:I:884:ARG:NH2	2.15	0.61
3:D:115:LEU:O	3:D:115:LEU:HD23	1.99	0.61
3:N:1040:GLY:O	3:N:1060:SER:HB3	1.99	0.61
2:M:487:THR:HB	2:M:490:GLU:HG3	1.82	0.61
2:M:187:ASN:O	2:M:188:LYS:HB3	2.00	0.61
1:A:186:LEU:HD23	1:A:187:GLY:N	2.15	0.61
2:M:1030:GLN:CD	3:N:628:ARG:HD3	2.21	0.61
2:H:176:VAL:HG12	2:H:182:VAL:HG13	1.82	0.61
2:M:237:ARG:NH1	2:M:237:ARG:HG3	2.13	0.61
3:D:809:PRO:CB	3:D:812:ALA:HB2	2.14	0.61
3:I:643:GLY:O	3:I:726:ILE:HG23	2.00	0.61
2:H:689:VAL:HG13	2:H:853:LEU:HD13	1.82	0.61
1:B:154:GLU:OE2	3:D:840:LYS:CE	2.47	0.61
2:C:897:LEU:HD21	2:C:921:ALA:HA	1.82	0.61
3:I:1003:VAL:O	3:I:1006:ALA:HB3	1.99	0.61
3:I:1263:PHE:CE2	3:I:1371:VAL:HG11	2.36	0.61
2:C:571:LEU:HD11	2:C:700:TYR:HA	1.82	0.61
3:D:486:ARG:HA	3:D:489:ARG:HD3	1.80	0.61
2:H:154:ARG:HH22	2:H:178:PRO:CD	2.12	0.61
2:M:911:GLU:HB3	2:M:912:PRO:HD3	1.82	0.61
3:D:671:LYS:O	3:D:675:ARG:HG3	2.00	0.61
2:C:159:ILE:HD12	2:C:159:ILE:O	2.01	0.61
2:C:880:MET:HB3	3:D:1061:PHE:CE2	2.35	0.61
3:I:543:LEU:CD2	3:I:580:ALA:HB1	2.22	0.61
3:I:1112:CYS:CB	3:I:1195:GLN:HG2	2.29	0.61
3:N:1448:THR:O	3:N:1451:ALA:HB3	2.00	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:1459:LEU:N	3:I:1459:LEU:HD12	2.15	0.61
2:M:516:ARG:NE	3:N:1068:LEU:HD13	2.15	0.61
3:D:156:GLU:HB2	3:D:157:GLU:OE2	1.99	0.61
3:D:180:LYS:HZ1	3:D:387:LEU:H	1.45	0.61
1:G:81:ASN:O	1:G:84:GLU:HB3	2.01	0.61
2:H:893:ALA:HB1	2:H:897:LEU:HD11	1.81	0.61
2:H:775:ARG:NH1	2:H:782:ALA:HB1	2.14	0.61
3:D:996:TRP:HE3	3:D:999:THR:HG21	1.65	0.61
1:L:179:PHE:N	1:L:179:PHE:HD2	1.98	0.61
2:M:374:ASN:HD22	2:M:376:ARG:H	1.48	0.61
3:N:1112:CYS:HB2	3:N:1195:GLN:HG2	1.83	0.61
1:K:194:LYS:NZ	1:K:196:THR:HG21	2.14	0.61
3:D:546:ARG:HG2	3:D:546:ARG:HH11	1.65	0.61
1:K:142:VAL:O	1:K:142:VAL:HG23	2.01	0.61
2:C:1030:GLN:CD	3:D:628:ARG:HD3	2.20	0.61
3:N:982:PHE:CD2	3:N:983:LEU:N	2.68	0.61
2:H:861:LEU:HA	2:H:974:LEU:HD12	1.82	0.61
2:C:863:ASP:OD2	2:C:863:ASP:C	2.39	0.61
3:I:829:VAL:HG12	3:I:830:ALA:N	2.15	0.61
3:I:906:GLN:HB3	3:I:911:LEU:CD1	2.28	0.61
2:C:431:HIS:CD2	2:C:433:THR:H	2.19	0.61
2:H:544:THR:O	2:H:547:ILE:CD1	2.41	0.61
3:D:800:LYS:HD2	3:D:804:LEU:CD2	2.30	0.61
3:D:827:ILE:C	3:D:828:LYS:HG3	2.20	0.61
2:M:100:LEU:HD23	2:M:367:LEU:O	2.00	0.61
3:I:616:GLN:HE22	3:I:621:LYS:HG3	1.66	0.61
3:D:203:ALA:HB1	3:D:393:ILE:HG21	1.82	0.61
3:I:100:ALA:HB2	3:I:128:TYR:OH	2.00	0.61
2:C:918:LEU:HD23	2:C:968:LEU:HA	1.81	0.61
2:M:602:GLU:HG3	2:M:603:VAL:N	2.14	0.61
3:I:704:ARG:HD3	3:I:738:ALA:HB2	1.80	0.61
2:M:28:ARG:HG3	2:M:40:GLU:OE1	2.00	0.61
3:D:650:LEU:HD13	3:D:688:TRP:HZ3	1.64	0.61
3:N:729:HIS:CD2	3:N:731:LEU:N	2.65	0.61
1:B:48:ILE:HD12	1:B:48:ILE:N	2.15	0.61
3:I:1123:PHE:CE2	3:I:1184:GLN:HA	2.33	0.61
3:I:711:LEU:HD12	3:I:778:LEU:HD23	1.81	0.61
2:C:524:VAL:HG12	2:C:525:SER:H	1.65	0.61
1:F:213:GLN:O	1:F:217:ILE:HG12	2.00	0.61
1:F:48:ILE:HG23	1:F:213:GLN:NE2	2.15	0.61
1:L:61:VAL:CG2	1:L:68:ILE:HD11	2.30	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:1399:ASP:O	3:I:1403:LEU:HB2	2.01	0.61
1:B:101:LEU:C	1:B:101:LEU:HD23	2.21	0.61
2:H:304:LEU:HD23	2:H:305:PRO:HD3	1.80	0.61
3:N:356:PRO:HB3	3:N:441:ARG:CA	2.28	0.61
2:H:926:PHE:O	2:H:930:LYS:HG3	1.99	0.61
3:D:1459:LEU:CD2	3:D:1468:LEU:HD12	2.31	0.61
3:D:433:GLY:HA3	3:D:447:VAL:O	2.00	0.61
3:N:206:ARG:HB3	3:N:391:ALA:H	1.64	0.61
2:C:965:GLU:HA	2:C:968:LEU:HD12	1.81	0.61
3:N:711:LEU:HD12	3:N:778:LEU:HD23	1.81	0.61
2:H:383:ARG:HB2	2:H:383:ARG:NH1	2.07	0.61
3:I:737:ASN:HD21	7:Y:40:SER:HB3	1.65	0.61
3:N:1066:THR:CG2	3:N:1069:GLU:HB2	2.28	0.61
2:H:224:GLU:OE1	2:H:227:PHE:CD1	2.47	0.61
2:M:681:GLY:C	3:N:635:PRO:HG3	2.21	0.61
2:M:759:THR:HB	2:M:785:VAL:HG22	1.83	0.61
1:G:206:THR:HG22	1:G:209:GLU:CG	2.31	0.61
2:H:806:LEU:HB2	2:H:822:VAL:HG22	1.80	0.61
3:D:1366:LYS:HA	3:D:1369:GLU:OE1	2.00	0.61
2:C:285:LEU:HG	2:C:285:LEU:O	1.99	0.61
2:H:858:MET:HG3	2:H:859:PRO:CD	2.28	0.61
3:D:141:ILE:HG21	3:D:448:GLU:OE1	2.00	0.61
3:N:771:SER:HB3	3:N:778:LEU:CD1	2.26	0.61
2:M:141:HIS:HB3	2:M:418:LEU:HB3	1.83	0.61
2:M:442:GLU:CG	2:M:454:SER:HB2	2.30	0.61
3:D:1025:GLN:HE21	3:D:1025:GLN:CA	2.14	0.61
3:I:1403:LEU:O	3:I:1407:LEU:HD13	1.98	0.61
3:I:1401:GLU:OE2	3:I:1415:VAL:HG21	2.00	0.61
1:A:9:PRO:HD2	1:B:224:TYR:CD1	2.36	0.61
3:D:1485:GLN:O	4:E:75:PHE:HA	1.99	0.61
2:C:987:ILE:HD11	3:D:946:GLY:HA2	1.83	0.61
3:D:1330:ILE:N	3:D:1330:ILE:CD1	2.64	0.61
3:I:1211:MET:CG	3:I:1212:ALA:H	1.88	0.61
2:H:612:VAL:HG13	2:H:621:VAL:O	2.00	0.61
2:M:218:VAL:CG2	2:M:311:PHE:HE1	2.13	0.61
3:N:210:ARG:HG2	3:N:344:ASP:OD1	2.00	0.61
2:C:126:SER:HB2	2:C:395:LYS:NZ	2.15	0.61
2:C:135:VAL:HG11	2:C:407:LYS:HA	1.81	0.61
2:M:585:GLU:HG2	2:M:665:PHE:CD2	2.36	0.61
3:I:857:ILE:CD1	3:I:857:ILE:N	2.63	0.61
2:H:367:LEU:HB3	2:H:371:LYS:HE2	1.81	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:62:LEU:HD22	2:H:745:ILE:HG22	1.83	0.61
2:H:474:VAL:HG23	2:H:478:VAL:O	1.99	0.61
1:B:179:PHE:H	1:B:179:PHE:HD2	1.48	0.61
1:G:65:PHE:N	1:G:65:PHE:CD1	2.69	0.61
3:N:1488:ASP:O	3:N:1490:LYS:N	2.33	0.61
2:M:175:GLU:HG2	2:M:176:VAL:N	2.16	0.61
2:M:599:GLU:HG3	2:M:600:ASP:H	1.65	0.61
7:X:45:ASP:C	7:X:47:GLY:H	2.04	0.61
1:G:35:THR:O	1:G:39:PRO:HG2	2.01	0.61
3:I:206:ARG:NH2	3:I:441:ARG:HH21	1.99	0.61
1:K:23:PHE:CE2	1:K:199:ILE:HD11	2.36	0.61
2:C:1005:MET:SD	3:D:724:GLN:HB3	2.40	0.61
3:N:481:MET:SD	3:N:1388:ARG:HG2	2.40	0.61
2:H:553:ASP:OD1	2:H:843:HIS:ND1	2.33	0.61
3:D:134:VAL:CG2	3:D:460:ALA:HB1	2.27	0.61
2:C:957:LYS:HD2	2:C:961:GLU:HB3	1.83	0.61
2:M:195:LEU:HD12	2:M:195:LEU:O	2.01	0.61
3:D:584:ASN:HD21	3:D:590:PRO:HD2	1.66	0.61
3:D:516:ALA:O	3:D:518:PRO:HD3	2.00	0.61
3:I:1305:LEU:CD1	3:I:1311:LEU:HD22	2.27	0.61
7:Z:73:VAL:C	7:Z:74:ILE:HD13	2.21	0.61
7:Y:75:LEU:HD22	7:Y:77:GLU:OE2	2.01	0.61
7:Z:6:LYS:NZ	7:Z:85:LEU:HG	2.16	0.61
3:D:1317:ASP:OD1	3:D:1318:TYR:N	2.32	0.61
1:F:165:ILE:HD12	1:F:165:ILE:O	2.01	0.61
1:F:28:LEU:HB2	1:F:193:ASP:HB2	1.82	0.61
3:N:917:GLN:HA	3:N:920:LEU:HD12	1.82	0.61
3:D:1253:THR:O	3:D:1258:ARG:HB2	2.00	0.61
3:D:1481:VAL:CG1	4:E:18:ARG:HD3	2.30	0.61
2:H:857:ASP:HB2	2:H:978:ARG:CG	2.20	0.61
3:N:1232:PRO:HB2	3:N:1356:TYR:HE2	1.65	0.61
2:M:195:LEU:HD21	2:M:241:LEU:HD12	1.83	0.61
2:M:218:VAL:HG22	2:M:311:PHE:HE1	1.65	0.61
2:H:1013:TYR:OH	2:H:1063:ARG:HG3	2.00	0.61
2:M:831:ARG:NH1	2:M:1002:GLU:HB2	2.15	0.61
3:D:1128:VAL:HB	3:D:1133:ARG:NH2	2.16	0.61
2:H:352:ALA:O	2:H:355:VAL:HG12	2.01	0.61
2:H:6:PHE:CZ	2:H:901:TYR:HD2	2.19	0.61
1:B:56:VAL:O	1:B:164:ALA:HB1	2.00	0.61
1:G:91:ASN:N	1:G:91:ASN:HD22	1.98	0.61
2:C:3:ILE:N	2:C:3:ILE:HD12	2.15	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:98:THR:CG2	1:A:141:GLU:HG3	2.30	0.61
2:C:896:PHE:O	2:C:924:VAL:HG11	2.01	0.61
3:N:519:VAL:HG13	3:N:544:TYR:CE1	2.35	0.61
3:I:1336:LEU:HD11	3:I:1341:PRO:HG3	1.82	0.61
2:H:47:ALA:HB1	2:H:345:ARG:HB3	1.83	0.61
3:D:1084:THR:HG22	3:D:1087:ARG:NH1	2.15	0.61
3:N:166:GLN:HG2	3:N:396:VAL:CG1	2.31	0.61
2:C:1058:ASP:OD2	2:C:1083:GLU:HB2	2.01	0.61
2:C:270:GLY:HA2	2:C:274:ARG:HD3	1.83	0.61
2:M:136:ILE:CG2	2:M:336:VAL:HG13	2.30	0.61
2:C:544:THR:O	2:C:547:ILE:CD1	2.44	0.61
3:N:806:PHE:CE1	3:N:813:LEU:CB	2.81	0.61
2:C:56:GLU:HB2	2:C:64:LEU:CD2	2.30	0.61
3:N:400:VAL:CG2	3:N:443:VAL:HG21	2.29	0.61
3:N:925:GLU:O	3:N:928:ALA:HB3	2.01	0.61
2:H:896:PHE:CE2	2:H:925:TYR:HB2	2.36	0.61
2:M:650:ARG:HG2	2:M:653:ASP:OD2	2.00	0.61
2:C:906:PHE:CD1	3:D:1067:VAL:HG13	2.35	0.61
1:G:213:GLN:O	1:G:217:ILE:HG13	2.00	0.61
2:C:569:VAL:HG12	2:C:996:LYS:O	2.00	0.61
7:Z:115:THR:CB	7:Z:116:PRO:HD3	2.31	0.60
3:N:160:GLU:HG2	3:N:165:LYS:CB	2.31	0.60
2:H:679:PHE:HB2	2:H:683:ASN:ND2	2.15	0.60
3:D:496:LEU:O	3:D:496:LEU:HD12	1.99	0.60
3:I:141:ILE:HG22	3:I:162:ARG:NH1	2.15	0.60
1:A:115:LEU:HD22	1:F:161:ARG:HH22	1.66	0.60
2:M:428:ARG:CZ	2:M:451:LEU:HD11	2.32	0.60
3:I:12:LEU:H	3:I:12:LEU:HD12	1.64	0.60
2:H:805:ARG:HG2	2:H:823:VAL:HG22	1.82	0.60
2:M:498:GLN:CA	2:M:498:GLN:HE21	2.13	0.60
2:C:500:ASN:HD22	2:C:500:ASN:N	1.99	0.60
3:D:963:TYR:CD2	3:D:1002:LYS:HD3	2.35	0.60
2:H:727:PRO:HD2	2:H:787:ASP:HB2	1.82	0.60
2:C:439:CYS:HB2	2:C:541:SER:HB2	1.82	0.60
2:C:679:PHE:O	2:C:680:ASP:C	2.39	0.60
3:D:1094:LEU:CD1	3:D:1098:LEU:HD11	2.31	0.60
2:C:1090:LYS:HE3	3:D:90:MET:SD	2.40	0.60
2:M:64:LEU:HD12	2:M:100:LEU:CD1	2.31	0.60
2:M:1004:LYS:CD	3:N:744:GLN:NE2	2.59	0.60
3:I:1263:PHE:HB3	3:I:1424:VAL:HG11	1.82	0.60
3:I:1453:ALA:O	3:I:1455:LYS:N	2.33	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:642:CYS:HB3	3:N:716:PHE:CB	2.31	0.60
3:I:18:ILE:CG2	3:I:518:PRO:HG3	2.31	0.60
1:F:26:GLU:HG2	1:F:27:PRO:CA	2.32	0.60
3:N:365:ASP:O	3:N:379:ALA:HB2	2.01	0.60
4:O:68:LEU:HA	4:O:73:LEU:HD13	1.83	0.60
2:H:1051:GLU:OE1	2:H:1056:LYS:HE3	2.02	0.60
1:B:115:LEU:O	1:B:115:LEU:HD12	2.00	0.60
2:H:720:GLU:HA	2:H:759:THR:O	2.01	0.60
3:I:53:ILE:HA	3:I:86:ARG:HH11	1.66	0.60
2:H:162:ILE:O	2:H:164:PRO:HD3	2.02	0.60
2:H:267:TYR:CD1	2:H:272:ALA:HB1	2.36	0.60
2:C:239:PHE:CE1	2:C:252:LYS:HA	2.35	0.60
3:I:1194:CYS:SG	3:I:1200:VAL:HA	2.41	0.60
3:I:163:TYR:HB3	2:M:209:ARG:NH2	2.16	0.60
2:C:139:GLN:O	2:C:334:ARG:HG3	2.02	0.60
2:C:1005:MET:SD	3:D:724:GLN:OE1	2.59	0.60
3:N:860:LEU:HD22	3:N:878:GLY:CA	2.30	0.60
4:O:21:VAL:O	4:O:25:LYS:HG3	2.01	0.60
2:H:679:PHE:CB	2:H:683:ASN:HD21	2.14	0.60
2:H:872:ASN:ND2	2:H:874:LEU:HB2	2.17	0.60
2:H:110:GLU:OE1	2:H:369:PRO:HB3	2.01	0.60
3:I:1352:ILE:O	3:I:1355:VAL:HG23	2.00	0.60
3:N:501:ALA:CB	3:N:1452:ILE:HG22	2.31	0.60
3:D:1381:VAL:CG2	3:D:1391:GLU:HB2	2.31	0.60
3:D:1114:THR:O	3:D:1114:THR:HG23	2.01	0.60
3:D:26:VAL:HG23	3:D:26:VAL:O	2.01	0.60
3:N:661:MET:SD	3:N:687:VAL:HG13	2.41	0.60
3:D:623:VAL:HG12	3:D:624:ASP:O	2.01	0.60
2:H:631:SER:HB3	2:H:637:LEU:HD11	1.83	0.60
3:N:1114:THR:CG2	3:N:1195:GLN:HB3	2.31	0.60
2:M:430:VAL:O	3:N:1075:HIS:CE1	2.54	0.60
1:G:44:LEU:CD2	1:G:48:ILE:HD11	2.31	0.60
1:F:62:LEU:HD23	2:H:745:ILE:O	2.02	0.60
1:G:52:ALA:HB1	1:G:170:VAL:H	1.66	0.60
1:G:52:ALA:HB2	1:G:170:VAL:C	2.21	0.60
2:H:218:VAL:HG23	2:H:311:PHE:CE1	2.36	0.60
3:N:982:PHE:CE1	7:Z:112:VAL:HG22	2.36	0.60
4:J:48:MET:N	4:J:54:LEU:HB2	2.16	0.60
1:A:35:THR:O	1:A:39:PRO:HG2	2.01	0.60
2:C:1049:LEU:O	2:C:1053:LEU:HG	2.01	0.60
1:K:123:MET:O	1:K:125:PRO:HD3	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:142:LEU:HG	3:N:145:VAL:C	2.22	0.60
2:C:270:GLY:HA2	2:C:274:ARG:CD	2.31	0.60
2:H:679:PHE:O	2:H:680:ASP:C	2.40	0.60
3:D:142:LEU:CD2	3:D:145:VAL:C	2.69	0.60
3:D:849:ALA:O	3:D:853:VAL:HG23	2.01	0.60
3:N:1209:LEU:HD11	4:O:16:LYS:HD2	1.82	0.60
3:D:743:ASP:OD1	6:Q:10:G:O2'	2.14	0.60
1:G:56:VAL:HG12	1:G:57:TYR:H	1.65	0.60
3:N:1452:ILE:H	3:N:1452:ILE:HD12	1.67	0.60
2:H:431:HIS:CD2	2:H:433:THR:OG1	2.55	0.60
3:D:955:VAL:O	3:D:1039:CYS:HB3	2.01	0.60
2:H:515:ALA:O	2:H:516:ARG:HD3	2.01	0.60
2:H:906:PHE:CE1	3:I:1067:VAL:HA	2.37	0.60
3:N:353:VAL:HG12	3:N:368:VAL:HG22	1.83	0.60
2:C:477:GLY:HA2	2:C:508:ILE:CD1	2.31	0.60
1:B:52:ALA:HB1	1:B:170:VAL:H	1.66	0.60
1:G:115:LEU:O	1:G:115:LEU:HD12	2.01	0.60
1:K:212:ASN:O	1:K:215:VAL:HB	2.01	0.60
3:N:1379:VAL:HG12	3:N:1419:PRO:CA	2.21	0.60
3:D:850:LEU:HD12	3:D:850:LEU:N	2.11	0.60
1:B:86:VAL:O	1:B:86:VAL:HG13	2.01	0.60
3:I:1434:TRP:NE1	3:I:1435:LEU:HD12	2.16	0.60
3:I:147:VAL:HG23	3:I:162:ARG:NH2	2.16	0.60
2:M:239:PHE:CE1	2:M:252:LYS:HA	2.36	0.60
3:I:1280:VAL:HG22	3:I:1295:GLU:O	2.01	0.60
3:N:57:GLU:HG2	3:N:58:CYS:N	2.17	0.60
3:N:209:ARG:O	3:N:346:ARG:HA	2.02	0.60
2:H:626:ARG:CB	2:H:639:GLN:HE21	2.15	0.60
3:D:471:GLU:O	3:D:475:LYS:HG3	2.02	0.60
3:D:400:VAL:O	3:D:400:VAL:HG13	2.02	0.60
4:O:68:LEU:HA	4:O:73:LEU:CD1	2.31	0.60
3:I:1173:LEU:HD12	3:I:1176:LYS:NZ	2.17	0.60
4:J:38:THR:OG1	4:J:39:VAL:N	2.34	0.60
3:D:1107:VAL:O	3:D:1218:GLY:N	2.33	0.60
3:D:1435:LEU:HD13	3:D:1457:ASP:OD2	2.02	0.60
2:C:435:TYR:HA	3:D:1071:PHE:HE2	1.66	0.60
3:N:1094:LEU:CD1	3:N:1098:LEU:HD13	2.31	0.60
4:O:10:PHE:CE1	4:O:16:LYS:HG3	2.36	0.60
2:H:1084:SER:O	2:H:1087:VAL:HG12	2.01	0.60
3:D:185:VAL:HG21	3:D:203:ALA:HB2	1.82	0.60
3:N:525:ARG:HB2	3:N:538:SER:HB3	1.84	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:455:LEU:CD1	2:H:459:ALA:HB3	2.28	0.60
2:M:571:LEU:HD11	2:M:701:THR:N	2.16	0.60
2:H:260:LEU:HB3	2:H:291:ALA:HB1	1.82	0.60
3:D:481:MET:HE3	3:D:493:ARG:HA	1.80	0.60
2:H:524:VAL:CG1	2:H:525:SER:H	2.15	0.60
2:C:654:LEU:H	2:C:654:LEU:CD2	2.14	0.60
2:M:129:ILE:HG22	2:M:130:ASN:N	2.16	0.60
2:M:876:VAL:N	2:M:877:PRO:HD2	2.17	0.60
2:H:569:VAL:HG23	2:H:570:PRO:HD2	1.83	0.60
2:C:90:TYR:CD1	2:C:120:LEU:HB2	2.37	0.60
7:Y:115:THR:OG1	7:Y:116:PRO:HD3	2.01	0.60
2:C:632:ASN:HB3	2:C:633:GLN:NE2	2.16	0.60
1:G:101:LEU:O	1:G:101:LEU:HD23	2.01	0.60
2:H:773:LEU:O	2:H:777:ILE:HG12	2.01	0.60
2:H:275:TYR:HD2	2:H:276:LYS:HG3	1.66	0.60
3:D:1094:LEU:O	3:D:1098:LEU:HD13	2.02	0.60
3:D:864:VAL:HG12	3:D:865:THR:N	2.17	0.60
3:I:809:PRO:CB	3:I:812:ALA:HB2	2.24	0.60
3:D:600:LEU:HD12	3:D:600:LEU:H	1.65	0.60
3:D:567:ILE:O	3:D:571:LYS:HG2	2.00	0.60
3:I:1123:PHE:CE2	3:I:1184:GLN:HG3	2.36	0.60
3:N:1114:THR:O	3:N:1114:THR:HG23	2.01	0.60
2:M:524:VAL:CG1	2:M:528:GLU:HB2	2.31	0.60
1:L:23:PHE:O	1:L:196:THR:HA	2.01	0.60
2:C:503:LEU:HD23	2:C:507:ARG:O	2.01	0.60
2:H:184:MET:SD	2:H:191:PHE:HE1	2.25	0.60
3:D:1102:THR:CA	3:D:1105:ILE:HD13	2.31	0.60
2:C:250:ARG:C	2:C:252:LYS:H	2.03	0.60
1:F:35:THR:O	1:F:39:PRO:HG2	2.02	0.60
3:I:163:TYR:HD1	2:M:209:ARG:NH2	1.99	0.60
3:I:789:LEU:O	3:I:792:ILE:HG23	2.01	0.60
3:D:862:ASP:O	3:D:877:PRO:HD3	2.01	0.60
2:M:64:LEU:HD12	2:M:100:LEU:HD13	1.84	0.60
3:D:181:ASP:HA	3:D:205:TYR:HD2	1.64	0.60
3:I:127:LEU:C	3:I:127:LEU:HD12	2.21	0.60
3:N:1018:ASN:HB3	3:N:1021:TYR:HB3	1.82	0.60
3:N:810:GLU:O	3:N:813:LEU:HG	2.00	0.60
3:N:812:ALA:HB1	3:N:816:HIS:CD2	2.36	0.60
2:H:726:ILE:N	2:H:726:ILE:HD12	2.17	0.60
2:H:129:ILE:HD11	2:H:386:PHE:HB3	1.82	0.60
3:N:638:LYS:HB2	3:N:641:GLN:OE1	2.02	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:Z:57:ARG:O	7:Z:61:ARG:HG3	2.02	0.60
1:F:24:VAL:HA	1:F:196:THR:HG22	1.84	0.60
3:D:474:GLU:O	3:D:478:LEU:HG	2.01	0.60
1:B:59:GLU:OE1	1:B:137:ARG:NH2	2.34	0.60
1:B:178:ALA:HB3	1:B:198:ARG:HG3	1.82	0.60
2:H:333:ILE:HD12	2:H:410:ILE:HD11	1.83	0.60
2:H:342:ASP:O	2:H:346:VAL:HG23	2.01	0.60
3:D:525:ARG:HB2	3:D:538:SER:CB	2.32	0.60
2:H:556:ASN:ND2	2:H:556:ASN:C	2.55	0.60
3:N:1101:VAL:CG1	3:N:1424:VAL:HG23	2.31	0.60
2:H:368:THR:CB	2:H:369:PRO:HD3	2.25	0.60
3:D:1091:SER:OG	5:P:19:DC:H6	1.83	0.60
3:I:1098:LEU:HD21	3:I:1229:ILE:CB	2.30	0.60
3:I:98:PRO:O	3:I:458:ALA:HB3	2.02	0.60
2:M:831:ARG:CZ	2:M:1000:MET:SD	2.90	0.60
2:H:136:ILE:HG12	2:H:392:SER:OG	2.02	0.60
2:H:430:VAL:HG11	3:I:1074:SER:OG	2.02	0.60
7:X:102:VAL:HG21	7:X:125:MET:HE2	1.83	0.60
2:H:545:ASN:HB3	2:H:583:LEU:HD22	1.84	0.60
3:N:14:SER:O	3:N:18:ILE:HG13	2.02	0.60
2:M:875:GLY:HA2	2:M:879:ARG:NH1	2.16	0.60
2:C:9:ILE:HG12	2:C:907:ASP:CG	2.22	0.60
1:G:202:ASP:OD1	1:G:204:SER:N	2.24	0.60
3:I:53:ILE:HA	3:I:86:ARG:NH1	2.16	0.60
2:H:266:ARG:CA	2:H:288:ARG:HD3	2.31	0.60
2:H:338:GLU:HA	2:H:341:THR:HG22	1.83	0.60
3:N:181:ASP:OD1	3:N:387:LEU:HD22	2.01	0.60
2:C:1031:ARG:HH21	3:D:621:LYS:NZ	2.00	0.60
1:B:76:VAL:HB	3:D:872:ARG:HH12	1.65	0.60
3:D:829:VAL:HG12	3:D:830:ALA:N	2.17	0.60
2:H:69:LEU:CD1	2:H:109:LYS:HE3	2.30	0.60
2:C:113:VAL:HG11	2:C:373:VAL:CB	2.32	0.60
2:H:606:VAL:HG11	2:H:643:VAL:O	2.01	0.60
3:N:93:ILE:HD12	3:N:548:ILE:HG12	1.84	0.60
2:M:265:ARG:HB3	2:M:267:TYR:CZ	2.36	0.60
2:M:461:VAL:CG1	2:M:465:GLY:HA2	2.32	0.60
3:N:1288:GLU:HG3	3:N:1307:LYS:HE2	1.84	0.60
3:I:143:ASN:HB3	3:I:161:LEU:HD21	1.83	0.60
2:M:516:ARG:NH1	2:M:521:PRO:HB3	2.17	0.60
2:H:237:ARG:NH1	2:H:237:ARG:HG3	2.17	0.60
3:N:972:LEU:HG	3:N:976:GLN:NE2	2.15	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:143:ASN:HA	3:D:161:LEU:CD2	2.32	0.60
2:H:74:GLY:O	2:H:76:PRO:HD3	2.02	0.60
2:C:598:GLU:O	2:C:651:LYS:HG3	2.02	0.60
3:N:1109:GLU:HG2	3:N:1201:CYS:CA	2.29	0.60
3:N:764:LEU:HD23	3:N:767:HIS:CE1	2.37	0.60
4:O:19:LEU:O	4:O:23:VAL:HG23	2.02	0.60
1:G:20:TYR:HD2	1:G:21:GLY:H	1.49	0.60
2:M:47:ALA:HB1	2:M:345:ARG:HB3	1.84	0.60
3:N:1465:ASN:HA	3:N:1468:LEU:HD23	1.82	0.60
3:I:54:LYS:HD2	3:I:55:ASP:H	1.65	0.60
3:I:1481:VAL:HG22	4:J:18:ARG:HE	1.66	0.59
3:D:1457:ASP:O	3:D:1459:LEU:HD12	2.01	0.59
3:D:881:LEU:HD21	3:D:941:PHE:CZ	2.37	0.59
3:D:434:ARG:HB3	3:D:447:VAL:CG2	2.32	0.59
2:C:835:VAL:HG13	2:C:836:GLY:N	2.17	0.59
2:C:368:THR:CB	2:C:369:PRO:CD	2.75	0.59
2:C:603:VAL:HG23	2:C:647:GLN:H	1.67	0.59
4:E:58:PRO:HG2	4:E:59:ASN:N	2.16	0.59
2:H:21:ILE:N	2:H:21:ILE:HD12	2.11	0.59
3:N:1047:LYS:HB3	3:N:1048:PRO:CD	2.32	0.59
2:H:204:GLN:NE2	2:H:228:ALA:HB1	2.17	0.59
7:Y:120:SER:HB2	7:Y:123:SER:HB2	1.83	0.59
2:M:881:ASN:OD1	2:M:884:GLN:NE2	2.35	0.59
3:D:402:PRO:HA	3:D:443:VAL:HG23	1.82	0.59
2:C:876:VAL:H	2:C:877:PRO:HD2	1.65	0.59
1:F:49:PRO:O	1:F:173:PRO:HG2	2.02	0.59
1:K:30:ARG:HD3	1:K:191:ASP:HB2	1.84	0.59
2:C:786:LYS:HG2	2:C:787:ASP:N	2.17	0.59
2:C:687:ALA:HB1	2:C:850:ALA:HB2	1.85	0.59
3:I:1106:VAL:HG11	3:I:1474:ALA:CB	2.32	0.59
3:N:143:ASN:HD21	3:N:145:VAL:HG12	1.65	0.59
2:C:281:LEU:HD11	2:C:306:THR:HA	1.82	0.59
3:D:799:LYS:O	3:D:799:LYS:HD3	2.02	0.59
3:N:1366:LYS:HA	3:N:1369:GLU:OE1	2.02	0.59
3:D:711:LEU:HD12	3:D:778:LEU:HD23	1.83	0.59
3:D:771:SER:HB2	3:D:778:LEU:CD1	2.29	0.59
3:N:833:GLU:O	3:N:834:THR:HG23	2.02	0.59
1:F:188:GLN:NE2	1:F:188:GLN:N	2.41	0.59
2:C:1055:LEU:HD11	2:C:1076:VAL:HG21	1.84	0.59
3:D:486:ARG:HG3	3:D:489:ARG:NH1	2.17	0.59
3:N:480:GLU:O	3:N:484:PRO:HD2	2.03	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:850:LEU:O	3:I:853:VAL:HB	2.01	0.59
3:I:1280:VAL:HA	3:I:1318:TYR:HA	1.83	0.59
3:N:1272:ALA:HA	3:N:1326:THR:HB	1.83	0.59
3:N:666:ILE:HD12	3:N:686:GLU:OE2	2.03	0.59
2:H:119:PRO:HG2	2:H:386:PHE:CD2	2.36	0.59
3:N:1165:TYR:CD1	3:N:1165:TYR:N	2.70	0.59
2:M:1019:GLN:CD	3:N:621:LYS:HG3	2.23	0.59
2:M:146:VAL:HG13	2:M:161:SER:O	2.03	0.59
2:H:147:TYR:O	2:H:148:PHE:HD2	1.85	0.59
2:C:22:GLN:HB3	2:C:121:MET:CE	2.31	0.59
2:M:851:LYS:HG2	2:M:853:LEU:CD1	2.31	0.59
2:H:636:ALA:O	2:H:637:LEU:HD23	2.03	0.59
3:I:465:LEU:HD13	3:I:510:GLU:HA	1.82	0.59
3:D:676:MET:SD	3:D:684:LYS:HE3	2.41	0.59
2:H:186:VAL:O	2:H:187:ASN:HB3	2.02	0.59
3:N:1040:GLY:O	3:N:1041:LEU:HB3	2.01	0.59
2:H:122:THR:HG22	2:H:124:ASP:H	1.67	0.59
2:M:498:GLN:HE21	2:M:498:GLN:HA	1.67	0.59
3:D:1257:PRO:HA	3:D:1260:ILE:HD12	1.84	0.59
7:X:92:GLU:HA	7:X:98:GLU:O	2.00	0.59
2:C:496:ILE:HA	2:C:531:PHE:O	2.02	0.59
3:I:396:VAL:HG23	3:I:398:ALA:HB3	1.83	0.59
3:N:156:GLU:O	3:N:160:GLU:HB2	2.02	0.59
2:C:274:ARG:O	2:C:277:ALA:HB3	2.01	0.59
2:C:285:LEU:CG	2:C:285:LEU:O	2.50	0.59
3:D:141:ILE:CG2	3:D:162:ARG:NH1	2.64	0.59
3:N:206:ARG:CG	3:N:391:ALA:HB3	2.32	0.59
2:H:794:PRO:CG	2:H:1025:ALA:HA	2.32	0.59
2:H:1003:ASP:O	2:H:1003:ASP:OD2	2.20	0.59
2:M:603:VAL:HA	2:M:613:VAL:HG12	1.84	0.59
3:I:1047:LYS:HB3	3:I:1048:PRO:HD2	1.85	0.59
3:D:720:LEU:CD1	3:D:720:LEU:H	2.15	0.59
3:D:983:LEU:N	3:D:983:LEU:HD23	2.18	0.59
2:M:578:VAL:HG23	2:M:579:VAL:HG12	1.84	0.59
2:C:854:PRO:HB2	2:C:856:GLU:CD	2.23	0.59
3:N:947:ILE:HD12	3:N:947:ILE:O	2.01	0.59
1:A:47:SER:OG	1:B:32:PHE:HZ	1.85	0.59
3:D:893:GLU:O	3:D:896:ALA:HB3	2.01	0.59
3:N:868:TYR:CD1	3:N:869:MET:HG3	2.37	0.59
3:D:7:LYS:HG2	3:D:1458:GLU:OE2	2.02	0.59
3:D:1024:ALA:HA	3:D:1029:ARG:O	2.02	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1087:ARG:NH2	7:X:43:TYR:CZ	2.65	0.59
3:I:804:LEU:HG	3:I:831:GLY:CA	2.31	0.59
2:C:338:GLU:HA	2:C:341:THR:HG22	1.83	0.59
3:N:880:ILE:CG2	3:N:881:LEU:N	2.65	0.59
3:I:783:ARG:HA	3:I:1028:ALA:HA	1.83	0.59
3:N:1225:ALA:O	3:N:1229:ILE:HG13	2.02	0.59
3:I:963:TYR:HD2	3:I:1002:LYS:HD3	1.66	0.59
3:I:135:LEU:CD2	3:I:137:PRO:O	2.50	0.59
2:C:204:GLN:NE2	2:C:228:ALA:CB	2.65	0.59
1:F:20:TYR:HD2	1:F:21:GLY:H	1.49	0.59
3:D:26:VAL:CG2	3:D:93:ILE:HG12	2.32	0.59
3:N:210:ARG:HB2	3:N:389:GLU:HG3	1.82	0.59
2:M:352:ALA:CA	2:M:355:VAL:HG12	2.32	0.59
3:D:1169:ASP:O	3:D:1172:HIS:HB2	2.02	0.59
2:H:1052:MET:HA	2:H:1056:LYS:HD2	1.83	0.59
1:K:99:LEU:HB3	1:K:114:PHE:CD2	2.38	0.59
4:O:27:ALA:HA	4:O:30:LEU:HD12	1.82	0.59
3:D:1363:LEU:H	3:D:1363:LEU:HD23	1.67	0.59
2:C:931:GLY:O	2:C:933:GLY:N	2.35	0.59
1:B:213:GLN:O	1:B:217:ILE:HG12	2.02	0.59
2:M:435:TYR:HE1	2:M:539:VAL:HG22	1.67	0.59
3:N:1167:SER:O	3:N:1171:VAL:HG23	2.02	0.59
2:H:274:ARG:HG3	2:H:285:LEU:HD22	1.84	0.59
3:N:358:GLY:HA2	3:N:385:VAL:CA	2.32	0.59
3:D:1452:ILE:CD1	3:D:1452:ILE:N	2.64	0.59
2:C:285:LEU:HD23	2:C:285:LEU:O	2.02	0.59
2:H:544:THR:C	2:H:546:LEU:H	2.06	0.59
3:D:789:LEU:HD12	3:D:911:LEU:HD21	1.84	0.59
2:M:432:ARG:HH12	3:N:1047:LYS:HG2	1.66	0.59
3:I:850:LEU:HD12	3:I:850:LEU:N	2.14	0.59
1:A:127:LEU:HD12	1:A:128:HIS:N	2.17	0.59
3:N:715:ALA:HB3	3:N:764:LEU:HA	1.84	0.59
3:N:508:ARG:HB3	3:N:509:PRO:HD2	1.84	0.59
7:Z:7:LEU:HD23	7:Z:109:GLU:OE2	2.03	0.59
2:C:754:ILE:HG13	2:C:791:ARG:NH1	2.17	0.59
2:M:751:PRO:HA	2:M:792:VAL:HG12	1.84	0.59
3:I:1356:TYR:HD2	3:I:1361:VAL:HG11	1.67	0.59
2:C:295:ASP:HB3	2:C:297:GLU:OE2	2.01	0.59
3:D:1393:GLN:HB2	3:D:1398:TRP:CZ2	2.37	0.59
3:N:181:ASP:HA	3:N:205:TYR:HB3	1.85	0.59
1:A:40:LEU:HA	1:A:43:ILE:HD12	1.83	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:167:GLU:HB3	3:N:169:TYR:HE1	1.67	0.59
3:N:908:LYS:NZ	7:Z:35:GLU:OE1	2.35	0.59
3:D:162:ARG:HG3	3:D:452:ILE:CG2	2.33	0.59
2:M:344:PHE:CD2	2:M:378:LEU:HD11	2.37	0.59
3:I:1112:CYS:HB2	3:I:1195:GLN:HG2	1.84	0.59
2:M:200:LEU:CD1	2:M:202:TYR:CD2	2.86	0.59
3:I:1033:GLN:HE22	7:Y:54:GLU:HG2	1.64	0.59
2:M:272:ALA:HA	2:M:464:LEU:HD21	1.84	0.59
2:H:1009:SER:HB3	3:I:651:GLU:OE1	2.02	0.59
2:C:64:LEU:HB2	2:C:359:MET:CG	2.33	0.59
1:F:76:VAL:HA	1:F:79:ILE:HG13	1.83	0.59
1:F:206:THR:HG22	1:F:209:GLU:CG	2.29	0.59
1:L:22:GLU:OE2	1:L:198:ARG:HB3	2.03	0.59
2:H:569:VAL:HG12	2:H:996:LYS:O	2.02	0.59
3:N:845:ASN:H	3:N:848:GLU:HG3	1.67	0.59
2:H:587:VAL:HG11	2:H:666:LEU:CD2	2.32	0.59
3:N:1200:VAL:HG22	3:N:1373:ARG:NH1	2.17	0.59
5:P:20:DC:H2''	5:P:21:DG:H5'	1.84	0.59
3:N:403:PHE:CE2	3:N:444:VAL:HG23	2.38	0.59
3:D:1018:ASN:HB3	3:D:1021:TYR:HB3	1.84	0.59
3:D:632:VAL:CG2	3:D:725:SER:HB2	2.32	0.59
3:I:1209:LEU:HD11	4:J:16:LYS:HD2	1.85	0.59
2:M:203:ASP:HB2	2:M:205:GLU:OE2	2.02	0.59
3:I:843:PHE:HE1	3:I:864:VAL:HG11	1.66	0.59
3:N:1356:TYR:HD2	3:N:1361:VAL:HG11	1.68	0.59
2:C:433:THR:CG2	2:C:488:ALA:HB1	2.33	0.59
3:N:141:ILE:N	3:N:162:ARG:HH12	1.99	0.59
3:N:804:LEU:HD13	3:N:829:VAL:CG1	2.33	0.59
3:I:520:LEU:HD12	3:I:521:PRO:HD2	1.85	0.59
2:H:67:ASP:OD1	2:H:68:PHE:N	2.35	0.59
2:C:1055:LEU:HD22	2:C:1066:ALA:HB2	1.82	0.59
2:M:39:ARG:HD2	2:M:39:ARG:N	2.12	0.59
2:C:720:GLU:HG2	2:C:760:SER:HB3	1.84	0.59
3:N:729:HIS:O	3:N:732:VAL:HG23	2.03	0.59
3:I:880:ILE:HG22	3:I:881:LEU:H	1.67	0.59
2:C:134:ARG:HH21	2:C:393:GLN:HA	1.67	0.59
3:D:996:TRP:CE2	3:D:1056:PRO:HG2	2.37	0.59
2:H:177:GLU:CD	2:H:179:ASN:HB3	2.23	0.59
2:C:498:GLN:HE21	2:C:498:GLN:CA	2.14	0.59
3:I:54:LYS:CG	3:I:55:ASP:H	2.15	0.59
3:D:701:LEU:HD12	3:D:701:LEU:N	2.17	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:21:GLY:HA3	1:A:207:PRO:CB	2.32	0.59
2:M:537:LYS:HG3	2:M:545:ASN:OD1	2.03	0.59
3:N:1295:GLU:CB	3:N:1300:SER:HB3	2.32	0.59
2:H:494:TYR:N	2:H:494:TYR:CD1	2.70	0.59
3:I:482:LYS:HE2	3:I:1388:ARG:NH2	2.17	0.59
3:D:190:GLU:HG2	3:D:196:VAL:HG22	1.84	0.59
2:C:151:ASP:HB2	2:C:157:ARG:O	2.03	0.59
3:D:889:ALA:HB1	3:D:930:LEU:HA	1.83	0.59
2:H:208:ALA:O	2:H:212:GLY:N	2.33	0.59
2:H:267:TYR:CB	2:H:272:ALA:CB	2.80	0.59
3:N:185:VAL:HG21	3:N:191:LEU:HD21	1.83	0.59
1:K:21:GLY:HA3	1:K:207:PRO:CB	2.33	0.59
3:N:875:THR:HG23	3:N:879:ARG:HG3	1.83	0.59
3:N:493:ARG:HG3	3:N:494:LYS:N	2.18	0.59
2:M:1035:MET:HA	2:M:1038:TRP:CE3	2.38	0.59
3:N:804:LEU:O	3:N:804:LEU:HD23	2.03	0.59
2:H:872:ASN:HD21	2:H:874:LEU:HD12	1.67	0.59
2:M:207:LEU:HD21	2:M:221:LEU:HD22	1.84	0.59
2:C:701:THR:HG23	2:C:832:LYS:HA	1.85	0.59
2:C:870:ILE:N	2:C:870:ILE:HD13	2.17	0.59
3:I:1256:LEU:HD12	3:I:1259:VAL:HB	1.85	0.59
3:I:637:LEU:HD21	3:I:642:CYS:HA	1.85	0.59
3:D:98:PRO:O	3:D:458:ALA:HB3	2.03	0.59
3:N:925:GLU:CD	4:O:6:ILE:HG22	2.23	0.59
1:L:52:ALA:HB2	1:L:170:VAL:C	2.23	0.59
1:B:56:VAL:HG11	1:B:140:MET:CE	2.33	0.59
2:M:384:GLU:O	2:M:388:ARG:HB2	2.02	0.59
2:M:1005:MET:CE	3:N:648:MET:HG3	2.33	0.59
2:H:288:ARG:HH11	2:H:288:ARG:CB	2.16	0.59
3:D:1165:TYR:CE2	3:D:1214:PRO:HB3	2.37	0.59
1:F:39:PRO:O	1:F:43:ILE:HG12	2.02	0.59
4:J:9:LEU:HB3	4:J:19:LEU:CD2	2.31	0.59
2:H:983:ILE:CD1	3:I:944:THR:HG22	2.33	0.59
2:M:226:VAL:HG13	2:M:227:PHE:CD1	2.37	0.59
3:I:804:LEU:CG	3:I:831:GLY:HA3	2.33	0.59
3:D:58:CYS:HB2	3:D:78:VAL:CB	2.33	0.59
3:D:87:ARG:O	3:D:524:LEU:HD11	2.03	0.59
3:N:127:LEU:CD1	3:N:127:LEU:C	2.72	0.59
4:O:47:LYS:N	4:O:54:LEU:HD13	2.18	0.59
3:I:1264:GLU:O	3:I:1266:ARG:HG3	2.02	0.59
3:D:1388:ARG:HG3	3:D:1389:LEU:H	1.67	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:309:TYR:CE2	2:C:321:GLU:HB3	2.37	0.59
3:N:1147:ARG:HB3	3:N:1188:VAL:CG2	2.32	0.59
2:M:1019:GLN:HB2	2:M:1021:LEU:HD11	1.85	0.59
3:D:991:GLN:HE22	7:X:112:VAL:HB	1.68	0.59
2:M:89:THR:O	2:M:91:GLN:HG3	2.02	0.59
2:H:570:PRO:HD2	2:H:635:THR:HG21	1.85	0.59
7:Z:134:VAL:CG2	7:Z:153:ALA:HA	2.33	0.59
2:C:460:ARG:HG3	2:C:460:ARG:HH11	1.67	0.59
3:N:17:LYS:HA	3:N:20:SER:HB2	1.84	0.59
1:G:54:THR:HG21	1:G:158:ILE:HG13	1.84	0.59
2:M:480:THR:HG22	2:M:481:ASP:H	1.68	0.59
1:A:226:SER:O	1:A:228:PRO:HD3	2.03	0.59
1:F:30:ARG:NH1	1:F:191:ASP:HB2	2.17	0.59
2:C:677:MET:HA	2:C:873:PRO:CG	2.33	0.59
3:I:800:LYS:CG	3:I:801:GLY:N	2.65	0.59
3:N:452:ILE:HD13	3:N:452:ILE:H	1.68	0.59
3:I:606:ILE:O	3:I:606:ILE:HG12	2.03	0.59
3:D:789:LEU:CD1	3:D:934:LEU:HD22	2.33	0.59
3:N:1209:LEU:HD23	3:N:1211:MET:H	1.68	0.59
3:D:181:ASP:HA	3:D:205:TYR:CB	2.33	0.59
3:D:206:ARG:HB3	3:D:207:PHE:CE1	2.38	0.59
3:I:988:ARG:HD3	3:I:992:ILE:HD11	1.85	0.59
3:I:1041:LEU:O	3:I:1041:LEU:HD23	2.02	0.59
2:H:498:GLN:HE21	2:H:498:GLN:CA	2.04	0.59
1:F:64:GLU:O	1:F:75:VAL:HB	2.02	0.59
3:D:143:ASN:CA	3:D:161:LEU:HD21	2.33	0.59
2:H:997:LEU:C	2:H:999:HIS:H	2.05	0.59
1:F:45:LEU:N	1:F:45:LEU:HD12	2.18	0.59
2:M:1105:LYS:NZ	2:M:1107:ASN:HB2	2.18	0.59
4:O:27:ALA:O	4:O:31:LEU:CD1	2.51	0.59
7:X:78:GLY:O	7:X:156:GLY:HA2	2.03	0.59
3:N:982:PHE:CE1	7:Z:117:MET:HG2	2.38	0.58
3:D:1369:GLU:HA	3:D:1372:VAL:HG12	1.85	0.58
2:M:205:GLU:HA	2:M:209:ARG:CZ	2.33	0.58
2:C:1046:ALA:HB1	3:D:1471:LEU:CD1	2.19	0.58
3:I:29:PRO:HD3	3:I:548:ILE:CG2	2.32	0.58
3:N:171:LEU:CD2	3:N:172:PRO:HD2	2.33	0.58
1:G:83:LYS:HZ1	3:I:844:ALA:H	1.50	0.58
2:H:1041:GLU:HB3	3:I:1223:ILE:CD1	2.33	0.58
2:M:281:LEU:CG	2:M:282:GLY:H	2.16	0.58
2:C:701:THR:CG2	2:C:832:LYS:HA	2.33	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1273:VAL:O	3:D:1273:VAL:HG23	2.03	0.58
1:K:46:SER:HB3	2:M:856:GLU:CG	2.33	0.58
3:N:729:HIS:NE2	3:N:731:LEU:HB2	2.17	0.58
1:F:26:GLU:CB	1:F:194:LYS:HG3	2.31	0.58
7:X:17:GLN:O	7:X:21:ARG:HD3	2.03	0.58
3:I:465:LEU:HD22	3:I:510:GLU:CA	2.33	0.58
3:D:361:VAL:HG13	3:D:379:ALA:HB1	1.85	0.58
2:M:688:ILE:HD13	2:M:847:GLY:HA3	1.84	0.58
1:L:18:ARG:O	1:L:201:THR:OG1	2.21	0.58
3:N:1194:CYS:SG	3:N:1200:VAL:HG13	2.43	0.58
7:Z:91:LEU:HB3	7:Z:149:PHE:HB3	1.85	0.58
2:C:501:THR:CG2	2:C:513:VAL:HG13	2.33	0.58
2:C:12:VAL:HB	2:C:472:ARG:NH1	2.17	0.58
3:I:741:ASP:OD2	3:I:743:ASP:OD2	2.20	0.58
3:D:1037:GLN:HG2	3:D:1042:ARG:HB3	1.84	0.58
3:D:1481:VAL:CG1	4:E:18:ARG:HA	2.13	0.58
3:D:119:SER:H	3:D:123:LEU:CD2	2.15	0.58
3:I:804:LEU:CD2	3:I:831:GLY:HA3	2.33	0.58
3:N:1037:GLN:OE1	3:N:1042:ARG:NH1	2.36	0.58
3:D:139:GLY:O	3:D:162:ARG:NH2	2.34	0.58
3:N:1340:GLY:O	3:N:1344:VAL:HG23	2.03	0.58
3:I:87:ARG:CB	3:I:523:ASP:HB2	2.28	0.58
2:H:52:PHE:C	2:H:52:PHE:CD1	2.76	0.58
3:I:1094:LEU:HG	3:I:1098:LEU:HD13	1.85	0.58
2:M:243:ARG:N	2:M:244:PRO:CD	2.66	0.58
3:N:1007:VAL:HG12	3:N:1011:PHE:CE2	2.38	0.58
3:D:465:LEU:HD13	3:D:510:GLU:HA	1.85	0.58
3:I:156:GLU:O	3:I:160:GLU:HB2	2.03	0.58
3:N:902:LEU:HD23	3:N:902:LEU:H	1.68	0.58
3:D:1026:SER:C	3:D:1028:ALA:H	2.05	0.58
3:I:731:LEU:HD21	3:I:781:PRO:HA	1.85	0.58
4:J:59:ASN:ND2	4:J:61:VAL:CG2	2.66	0.58
3:I:710:ARG:HG3	3:I:711:LEU:N	2.18	0.58
1:F:50:GLY:HA3	1:F:173:PRO:HG3	1.83	0.58
3:N:1189:ARG:HG3	3:N:1189:ARG:NH1	2.18	0.58
3:N:1200:VAL:HG22	3:N:1373:ARG:HH12	1.68	0.58
1:G:68:ILE:HD12	1:G:68:ILE:N	2.18	0.58
3:I:696:HIS:ND1	4:J:48:MET:SD	2.76	0.58
2:H:857:ASP:CB	2:H:978:ARG:HG2	2.21	0.58
3:I:770:LEU:HB2	3:I:1210:SER:O	2.04	0.58
2:C:260:LEU:CA	2:C:291:ALA:HB1	2.34	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:581:LEU:CD2	3:I:581:LEU:H	2.14	0.58
3:D:348:GLN:H	3:D:351:MET:HE2	1.66	0.58
1:G:56:VAL:CG1	1:G:57:TYR:N	2.65	0.58
2:M:456:ALA:HB3	2:M:459:ALA:CB	2.29	0.58
2:H:1026:GLN:OE1	2:H:1026:GLN:HA	2.03	0.58
3:D:179:VAL:HG13	3:D:183:GLU:CB	2.26	0.58
2:C:193:LEU:N	2:C:193:LEU:HD12	2.19	0.58
2:C:64:LEU:HB2	2:C:359:MET:HG3	1.85	0.58
3:I:1202:GLN:HB2	3:I:1217:ILE:HD11	1.85	0.58
2:H:79:PRO:HG2	2:H:82:GLU:HB2	1.86	0.58
3:D:409:VAL:HG13	3:D:410:SER:H	1.67	0.58
3:I:95:LEU:HD21	3:I:574:LEU:HD11	1.85	0.58
3:I:720:LEU:H	3:I:720:LEU:CD1	2.16	0.58
1:L:25:LEU:HD21	1:L:28:LEU:HD21	1.86	0.58
3:I:584:ASN:ND2	3:I:590:PRO:HD2	2.18	0.58
3:D:851:LEU:N	3:D:851:LEU:HD23	2.19	0.58
2:M:176:VAL:O	2:M:176:VAL:HG23	2.02	0.58
2:M:714:ASP:OD1	2:M:719:PRO:HG3	2.03	0.58
3:D:979:GLU:O	7:X:143:PRO:HD2	2.02	0.58
3:N:1095:THR:HG23	3:N:1230:GLY:HA3	1.83	0.58
2:C:352:ALA:HA	2:C:355:VAL:CG1	2.33	0.58
3:I:123:LEU:HD21	3:I:151:GLN:NE2	2.18	0.58
3:I:128:TYR:CE2	3:I:458:ALA:HA	2.34	0.58
2:M:208:ALA:O	2:M:212:GLY:N	2.35	0.58
2:M:281:LEU:CD1	2:M:309:TYR:HB2	2.33	0.58
4:E:54:LEU:HG	4:E:58:PRO:HB3	1.85	0.58
3:D:489:ARG:NH2	3:D:1389:LEU:HD11	2.17	0.58
2:M:495:THR:CG2	2:M:517:ARG:HH21	2.11	0.58
2:H:18:LEU:N	2:H:18:LEU:HD12	2.17	0.58
2:H:224:GLU:OE1	2:H:226:VAL:HG13	2.04	0.58
3:N:1273:VAL:O	3:N:1273:VAL:HG23	2.03	0.58
2:C:725:ASP:HB3	2:C:783:ARG:HH12	1.69	0.58
2:C:717:LEU:HB3	2:C:761:PHE:CG	2.38	0.58
2:M:462:ASP:CB	2:M:468:ARG:HD2	2.32	0.58
3:N:104:PHE:O	3:N:112:ILE:CG2	2.51	0.58
1:F:91:ASN:OD1	1:F:92:PRO:HD2	2.03	0.58
1:K:56:VAL:HG12	1:K:57:TYR:H	1.66	0.58
3:N:131:LYS:HG3	3:N:456:MET:HE3	1.84	0.58
2:C:611:ILE:HG13	2:C:625:LEU:HD21	1.86	0.58
1:F:63:HIS:CB	2:H:799:ILE:HG21	2.33	0.58
2:H:252:LYS:O	2:H:255:ALA:N	2.37	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:261:ILE:HG22	2:H:266:ARG:NH2	2.18	0.58
2:H:165:LEU:HB3	2:H:265:ARG:CZ	2.34	0.58
2:C:997:LEU:C	2:C:999:HIS:H	2.06	0.58
3:I:804:LEU:HD23	3:I:831:GLY:CA	2.33	0.58
3:I:812:ALA:O	3:I:816:HIS:HB2	2.02	0.58
2:M:606:VAL:HG11	2:M:643:VAL:O	2.02	0.58
3:D:104:PHE:CD1	3:D:512:MET:HG2	2.38	0.58
2:H:1097:LEU:HG	3:I:10:ILE:CG2	2.31	0.58
3:D:762:GLN:NE2	4:E:20:THR:HG21	2.14	0.58
3:N:1048:PRO:O	3:N:1079:LYS:HE3	2.03	0.58
3:N:688:TRP:HA	3:N:688:TRP:CE3	2.38	0.58
1:A:206:THR:HG23	1:A:208:LEU:H	1.67	0.58
2:C:736:ASP:O	2:C:744:ARG:HG2	2.02	0.58
3:D:689:ASP:O	3:D:693:GLU:HB2	2.03	0.58
2:C:329:GLY:HA3	2:C:489:THR:CG2	2.33	0.58
2:M:430:VAL:HG13	3:N:1075:HIS:ND1	2.18	0.58
1:K:194:LYS:HZ1	1:K:196:THR:HG21	1.67	0.58
2:C:742:VAL:HG12	2:C:743:VAL:H	1.68	0.58
2:M:401:LEU:CD1	2:M:587:VAL:HG11	2.33	0.58
3:I:52:PRO:HG2	3:I:80:VAL:HG22	1.86	0.58
4:J:40:LEU:CD2	4:J:67:GLU:HA	2.33	0.58
3:N:40:GLU:OE1	3:N:40:GLU:HA	2.04	0.58
1:B:227:ASN:HD22	1:B:227:ASN:N	2.01	0.58
3:N:1183:ILE:HD12	3:N:1183:ILE:O	2.04	0.58
2:H:272:ALA:O	2:H:276:LYS:NZ	2.29	0.58
2:C:1061:GLU:OE2	3:D:84:ILE:CD1	2.45	0.58
3:D:58:CYS:HB2	3:D:78:VAL:CG1	2.33	0.58
2:C:267:TYR:N	2:C:267:TYR:CD2	2.65	0.58
3:N:165:LYS:NZ	3:N:199:LEU:CD2	2.66	0.58
3:N:907:GLU:HG2	3:N:908:LYS:N	2.18	0.58
3:D:644:LEU:HD12	3:D:645:PRO:HD2	1.84	0.58
3:I:1007:VAL:CG1	3:I:1011:PHE:HE2	2.15	0.58
3:I:1101:VAL:HG11	3:I:1424:VAL:O	2.04	0.58
3:N:1003:VAL:O	3:N:1007:VAL:HG23	2.03	0.58
4:E:54:LEU:O	4:E:54:LEU:HD23	2.03	0.58
3:D:1292:VAL:HG23	3:D:1305:LEU:HG	1.84	0.58
2:H:571:LEU:HD21	2:H:700:TYR:HA	1.86	0.58
1:K:43:ILE:CD1	1:L:35:THR:HG21	2.33	0.58
2:M:1105:LYS:HD2	2:M:1107:ASN:ND2	2.18	0.58
2:C:47:ALA:O	2:C:348:LEU:HD23	2.03	0.58
3:I:23:TYR:O	3:I:49:ILE:HG23	2.03	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:399:ASN:O	2:H:402:SER:HB3	2.03	0.58
2:H:159:ILE:O	2:H:159:ILE:HD12	2.04	0.58
3:D:1066:THR:HG22	3:D:1069:GLU:CB	2.22	0.58
2:H:857:ASP:OD1	2:H:857:ASP:N	2.36	0.58
3:D:805:GLU:O	3:D:809:PRO:HD2	2.03	0.58
3:D:810:GLU:C	3:D:812:ALA:N	2.56	0.58
1:K:44:LEU:O	1:K:48:ILE:HD12	2.03	0.58
3:D:39:PRO:O	3:D:40:GLU:O	2.21	0.58
3:D:83:SER:O	3:D:86:ARG:HB2	2.04	0.58
3:N:1481:VAL:HG11	4:O:18:ARG:CA	2.11	0.58
3:N:804:LEU:HD22	3:N:831:GLY:CA	2.26	0.58
2:H:877:PRO:HG3	3:I:1023:MET:SD	2.44	0.58
3:N:849:ALA:O	3:N:853:VAL:HG23	2.03	0.58
3:I:8:VAL:CG2	3:I:1459:LEU:HD11	2.33	0.58
3:I:983:LEU:H	3:I:983:LEU:HD23	1.68	0.58
3:N:890:VAL:HG11	3:N:922:LEU:HD12	1.82	0.58
2:H:976:ASP:CB	2:H:979:THR:HG22	2.34	0.58
2:M:1008:ARG:HH12	2:M:1010:THR:HA	1.68	0.58
2:C:976:ASP:CB	2:C:979:THR:HG22	2.33	0.58
3:N:400:VAL:HG22	3:N:443:VAL:CG2	2.32	0.58
3:N:367:ILE:CB	3:N:377:VAL:HG12	2.32	0.58
1:B:48:ILE:H	1:B:48:ILE:CD1	2.15	0.58
2:C:483:VAL:HG12	2:C:484:VAL:N	2.18	0.58
2:M:838:LYS:HD3	2:M:846:LYS:NZ	2.19	0.58
3:N:963:TYR:CE2	3:N:1002:LYS:HD3	2.38	0.58
2:H:690:ILE:HD11	2:H:694:LEU:HD12	1.86	0.58
3:D:1299:PHE:N	3:D:1299:PHE:HD2	2.01	0.58
3:N:1299:PHE:HD2	3:N:1299:PHE:N	2.02	0.58
2:H:593:ALA:HB1	2:H:659:PRO:HD2	1.86	0.58
1:F:186:LEU:HD23	1:F:187:GLY:N	2.18	0.58
2:H:304:LEU:CD2	2:H:305:PRO:HD3	2.33	0.58
3:D:1367:HIS:HA	3:D:1370:ILE:HD12	1.86	0.58
3:N:358:GLY:HA2	3:N:385:VAL:C	2.24	0.58
1:A:39:PRO:HG3	1:B:39:PRO:HG3	1.86	0.58
1:L:62:LEU:HD13	1:L:63:HIS:CD2	2.38	0.58
1:B:80:LEU:HG	3:D:844:ALA:HB2	1.84	0.58
2:C:1060:ILE:HG21	3:D:87:ARG:NH2	2.18	0.58
3:D:45:PHE:HD1	3:D:522:PRO:HB3	1.69	0.58
3:N:165:LYS:HE2	3:N:167:GLU:HG3	1.86	0.58
3:D:398:ALA:HB2	3:D:447:VAL:HA	1.84	0.58
3:I:1007:VAL:CG1	3:I:1011:PHE:CE2	2.86	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:950:LEU:HD12	2:C:952:LEU:CD2	2.32	0.58
2:H:12:VAL:CG2	2:H:13:ILE:HG23	2.26	0.58
2:H:403:SER:O	2:H:407:LYS:HG3	2.04	0.58
1:G:124:ASN:N	1:G:125:PRO:HD3	2.17	0.58
3:I:650:LEU:HD13	3:I:688:TRP:CZ3	2.30	0.58
2:H:129:ILE:CD1	2:H:386:PHE:HB3	2.33	0.58
2:C:654:LEU:HD23	2:C:654:LEU:N	2.17	0.58
2:C:136:ILE:N	2:C:136:ILE:HD12	2.19	0.58
2:C:208:ALA:O	2:C:212:GLY:N	2.32	0.58
1:L:179:PHE:N	1:L:179:PHE:CD2	2.70	0.58
2:M:374:ASN:HD21	2:M:376:ARG:HB2	1.66	0.58
1:B:56:VAL:CG1	1:B:140:MET:HE3	2.33	0.58
2:M:189:ARG:NH1	2:M:190:LYS:HD2	2.18	0.58
2:H:94:LEU:HD12	2:H:95:TYR:O	2.04	0.58
3:I:482:LYS:HE2	3:I:1388:ARG:HH22	1.69	0.58
3:N:871:LYS:HE2	3:N:873:LEU:HD21	1.86	0.58
2:H:38:LYS:HE2	2:H:38:LYS:HA	1.86	0.58
3:D:1217:ILE:HB	3:D:1480:PHE:CD2	2.39	0.58
4:J:48:MET:HG3	4:J:49:GLN:H	1.67	0.58
1:G:29:GLU:HB2	1:G:32:PHE:CD1	2.39	0.58
2:H:943:VAL:HG11	2:H:973:VAL:HG13	1.85	0.58
2:M:224:GLU:HG3	2:M:227:PHE:HB2	1.86	0.58
3:D:1459:LEU:N	3:D:1459:LEU:HD12	2.19	0.58
1:K:89:PHE:CD1	1:K:89:PHE:N	2.70	0.58
3:D:47:GLU:O	3:D:51:GLY:N	2.36	0.58
3:D:141:ILE:CG2	3:D:162:ARG:HH11	2.16	0.58
3:N:705:ALA:CB	3:N:706:PRO:CD	2.82	0.58
3:D:739:ASP:OD1	3:D:743:ASP:OD2	2.22	0.58
3:D:715:ALA:HB3	3:D:764:LEU:HA	1.86	0.58
2:M:174:LEU:HD23	2:M:184:MET:HG3	1.86	0.58
2:H:654:LEU:H	2:H:654:LEU:CD2	2.05	0.58
3:I:179:VAL:HG21	3:I:189:GLN:NE2	2.19	0.58
1:B:185:ARG:NH1	3:D:692:GLU:HG2	2.19	0.58
3:I:701:LEU:HD11	3:I:750:PRO:HG3	1.85	0.58
2:M:597:ALA:CA	2:M:655:LEU:HD11	2.33	0.58
3:N:1147:ARG:HD2	3:N:1188:VAL:HG21	1.84	0.58
3:D:202:VAL:O	3:D:395:VAL:CG1	2.49	0.58
2:C:134:ARG:HB3	2:C:393:GLN:O	2.03	0.58
2:H:172:ILE:H	2:H:172:ILE:HD12	1.67	0.58
1:G:206:THR:HG23	1:G:209:GLU:H	1.69	0.58
2:M:794:PRO:CG	2:M:1025:ALA:HA	2.34	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:690:ILE:HD11	2:M:694:LEU:HB2	1.85	0.58
7:X:5:VAL:HB	7:X:72:ALA:HA	1.86	0.58
2:C:1011:GLY:HA3	2:C:1026:GLN:HG2	1.86	0.58
3:D:972:LEU:O	3:D:976:GLN:HG3	2.03	0.58
2:H:267:TYR:HB2	2:H:272:ALA:HB2	1.82	0.58
2:H:274:ARG:O	2:H:277:ALA:HB3	2.03	0.58
2:C:668:LEU:O	2:C:995:MET:HB3	2.03	0.58
3:D:1366:LYS:O	3:D:1370:ILE:HG13	2.04	0.58
4:J:46:PRO:HB2	4:J:54:LEU:HD22	1.85	0.58
3:N:181:ASP:CA	3:N:205:TYR:HB3	2.34	0.58
3:D:87:ARG:CB	3:D:523:ASP:HB2	2.16	0.58
2:C:332:ARG:HG3	2:C:464:LEU:O	2.03	0.58
3:D:105:VAL:HG22	3:D:112:ILE:HG21	1.85	0.58
3:D:465:LEU:HD11	3:D:512:MET:HB2	1.86	0.58
1:A:83:LYS:HD3	1:A:167:VAL:HG12	1.86	0.58
2:C:701:THR:HA	2:C:831:ARG:O	2.04	0.58
2:H:1096:ALA:HB2	3:I:101:HIS:CD2	2.38	0.58
2:H:260:LEU:HA	2:H:291:ALA:CB	2.34	0.58
3:I:1166:LEU:HD23	3:I:1166:LEU:H	1.68	0.58
3:I:701:LEU:C	3:I:702:LEU:HD12	2.24	0.58
3:D:980:MET:HB3	3:D:982:PHE:HE2	1.64	0.58
2:C:129:ILE:HG22	2:C:130:ASN:H	1.66	0.58
2:H:937:ASP:CB	2:H:940:GLU:HG3	2.33	0.58
3:D:1264:GLU:HG2	3:D:1266:ARG:NH2	2.18	0.58
3:N:415:VAL:HG12	3:N:416:ALA:N	2.18	0.58
2:C:136:ILE:CG2	2:C:336:VAL:HG22	2.34	0.58
2:C:22:GLN:NE2	2:C:336:VAL:CG2	2.67	0.58
1:G:41:ARG:HG3	1:G:177:VAL:HG21	1.85	0.58
3:N:1161:GLU:HG2	3:N:1164:ARG:HB2	1.85	0.58
3:N:1123:PHE:CE2	3:N:1184:GLN:HA	2.39	0.58
1:G:68:ILE:H	1:G:68:ILE:HD12	1.67	0.58
3:D:1405:GLU:OE2	3:D:1411:GLY:O	2.21	0.58
3:D:1110:ALA:O	3:D:1111:ASP:C	2.42	0.57
2:M:224:GLU:OE1	2:M:226:VAL:CG1	2.52	0.57
1:A:36:LEU:C	1:A:39:PRO:HD2	2.24	0.57
1:B:80:LEU:HG	3:D:844:ALA:CB	2.34	0.57
3:N:1481:VAL:HG12	4:O:21:VAL:HG21	1.85	0.57
2:H:876:VAL:O	2:H:879:ARG:O	2.22	0.57
3:D:204:LEU:O	3:D:393:ILE:HG23	2.04	0.57
1:L:219:ARG:O	1:L:222:LEU:HB2	2.04	0.57
2:H:260:LEU:HD22	2:H:292:ARG:NH1	2.18	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:1066:THR:OG1	3:I:1067:VAL:N	2.37	0.57
2:H:1076:VAL:HG11	3:I:752:SER:HA	1.86	0.57
2:H:352:ALA:C	2:H:355:VAL:HG12	2.24	0.57
1:A:45:LEU:HD12	1:A:45:LEU:N	2.19	0.57
2:M:682:TYR:CD1	3:N:635:PRO:HG2	2.39	0.57
2:M:328:LEU:HB2	2:M:433:THR:CG2	2.34	0.57
2:H:473:ARG:HG2	2:H:473:ARG:HH11	1.69	0.57
2:H:463:GLU:OE1	2:H:463:GLU:HA	2.04	0.57
3:N:975:GLU:HA	3:N:975:GLU:OE1	2.03	0.57
3:I:618:LEU:HD11	3:I:1463:LYS:HE2	1.85	0.57
2:H:218:VAL:HG23	2:H:311:PHE:HE1	1.70	0.57
2:C:194:VAL:O	2:C:197:LEU:N	2.37	0.57
2:C:1097:LEU:HD12	3:D:10:ILE:HG23	1.86	0.57
3:I:834:THR:HB	3:I:838:ARG:HB2	1.86	0.57
2:M:878:SER:OG	3:N:1029:ARG:NH1	2.37	0.57
3:N:829:VAL:CG1	3:N:830:ALA:N	2.66	0.57
3:D:834:THR:HB	3:D:838:ARG:HB2	1.86	0.57
2:C:577:PRO:HG3	2:C:993:PHE:CE1	2.39	0.57
2:M:861:LEU:HD22	2:M:865:THR:CG2	2.34	0.57
3:N:28:LYS:HD3	3:N:41:ARG:NH2	2.19	0.57
2:C:224:GLU:CB	2:C:228:ALA:HB2	2.33	0.57
3:I:1465:ASN:HD22	3:I:1468:LEU:HD12	1.69	0.57
3:I:1135:ARG:HD2	3:I:1139:ASP:CB	2.28	0.57
2:M:239:PHE:CZ	2:M:252:LYS:CA	2.86	0.57
2:M:516:ARG:HG3	3:N:1068:LEU:HD11	1.86	0.57
3:D:127:LEU:CD1	3:D:127:LEU:C	2.73	0.57
2:H:1055:LEU:HD22	2:H:1066:ALA:HB2	1.85	0.57
3:D:1356:TYR:HD2	3:D:1361:VAL:HG11	1.69	0.57
2:M:1090:LYS:HA	2:M:1093:GLN:HG3	1.86	0.57
1:B:82:LEU:HD13	1:B:142:VAL:HG11	1.85	0.57
7:X:33:LEU:HD12	7:X:51:ALA:CB	2.34	0.57
1:G:73:GLU:OE1	1:G:130:ALA:HA	2.04	0.57
3:I:1391:GLU:OE1	3:I:1393:GLN:NE2	2.37	0.57
3:D:1372:VAL:HA	3:D:1375:MET:CE	2.34	0.57
2:H:425:PHE:CZ	3:I:1079:LYS:HD3	2.40	0.57
2:C:1084:SER:O	2:C:1087:VAL:HG12	2.04	0.57
3:D:1452:ILE:N	3:D:1452:ILE:HD12	2.19	0.57
3:I:827:ILE:HA	3:I:836:VAL:HG13	1.85	0.57
2:C:267:TYR:H	2:C:267:TYR:HD2	1.50	0.57
3:N:162:ARG:CG	3:N:452:ILE:HD12	2.31	0.57
3:D:162:ARG:HG3	3:D:452:ILE:HG21	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:834:THR:HA	3:D:838:ARG:NH1	2.19	0.57
2:C:98:LEU:N	2:C:98:LEU:CD1	2.64	0.57
3:N:1000:THR:HG23	3:N:1001:GLU:H	1.69	0.57
2:M:193:LEU:HD12	2:M:193:LEU:N	2.19	0.57
2:H:376:ARG:NH1	2:H:380:ALA:HB2	2.11	0.57
4:J:36:LYS:NZ	4:J:45:ARG:NH2	2.50	0.57
3:I:984:THR:HG22	3:I:987:GLU:CD	2.25	0.57
1:A:91:ASN:HD22	1:A:93:SER:HB3	1.70	0.57
2:H:523:ILE:HG23	2:H:523:ILE:O	2.02	0.57
2:H:588:VAL:HG21	2:H:664:GLY:O	2.04	0.57
1:G:197:LEU:HD23	1:G:199:ILE:HD11	1.86	0.57
2:M:967:PHE:CD1	2:M:972:VAL:HG12	2.37	0.57
7:X:6:LYS:HB2	7:X:85:LEU:HD12	1.85	0.57
2:M:328:LEU:CD2	2:M:437:ARG:HD3	2.35	0.57
1:L:55:SER:OG	1:L:158:ILE:HB	2.05	0.57
2:C:690:ILE:HG23	2:C:852:ILE:HA	1.85	0.57
2:H:808:ARG:O	2:H:810:ASP:N	2.37	0.57
3:I:1487:VAL:HG13	3:I:1491:THR:HB	1.86	0.57
2:H:218:VAL:HG13	2:H:221:LEU:HD11	1.86	0.57
7:Z:120:SER:HB2	7:Z:123:SER:CB	2.18	0.57
3:N:181:ASP:O	3:N:205:TYR:N	2.37	0.57
1:G:43:ILE:HG22	1:G:47:SER:HB3	1.84	0.57
3:I:800:LYS:CG	3:I:826:PRO:CD	2.70	0.57
2:H:677:MET:HA	2:H:873:PRO:CG	2.33	0.57
3:D:907:GLU:CD	3:D:909:ASN:HD22	2.06	0.57
3:N:1369:GLU:HA	3:N:1372:VAL:HG12	1.87	0.57
3:D:205:TYR:HD1	3:D:390:PRO:CG	2.17	0.57
3:I:845:ASN:O	3:I:848:GLU:HB2	2.04	0.57
2:C:52:PHE:HE1	2:C:66:LEU:HG	1.68	0.57
3:I:1349:VAL:HA	3:I:1368:ILE:CG2	2.34	0.57
2:M:115:LEU:HA	2:M:375:SER:OG	2.05	0.57
3:N:1044:LEU:HD21	3:N:1056:PRO:HG3	1.86	0.57
3:I:1459:LEU:HD23	3:I:1470:ARG:HH21	1.65	0.57
2:H:496:ILE:HA	2:H:531:PHE:O	2.04	0.57
1:G:201:THR:HG21	1:G:205:VAL:O	2.03	0.57
1:G:197:LEU:HD21	1:G:199:ILE:HD11	1.86	0.57
3:D:149:LYS:HE2	3:D:149:LYS:H	1.69	0.57
2:C:457:ALA:HB3	2:C:538:GLN:HA	1.87	0.57
3:N:55:ASP:O	3:N:56:TYR:HB2	2.05	0.57
7:Z:77:GLU:HG3	7:Z:77:GLU:O	2.04	0.57
1:A:165:ILE:HG12	1:A:165:ILE:O	2.03	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:591:SER:O	2:C:592:LEU:HB2	2.04	0.57
2:H:174:LEU:HD21	2:H:184:MET:HG3	1.86	0.57
2:H:332:ARG:HG2	2:H:333:ILE:N	2.19	0.57
3:D:1109:GLU:HG3	3:D:1217:ILE:CD1	2.33	0.57
3:N:181:ASP:HA	3:N:205:TYR:CB	2.35	0.57
3:D:811:GLU:O	3:D:815:ALA:HB3	2.04	0.57
3:D:1103:HIS:CD2	3:D:1463:LYS:HB2	2.38	0.57
3:I:841:TYR:HB2	3:I:864:VAL:CG1	2.34	0.57
3:D:52:PRO:CA	3:D:86:ARG:HD3	2.34	0.57
2:C:328:LEU:HD13	2:C:433:THR:HB	1.85	0.57
3:N:99:ALA:HA	3:N:575:GLN:NE2	2.18	0.57
3:N:827:ILE:HG22	3:N:827:ILE:O	2.04	0.57
2:M:860:HIS:CE1	2:M:975:TYR:HB2	2.40	0.57
2:M:455:LEU:HD13	2:M:459:ALA:CB	2.26	0.57
2:H:878:SER:HB3	3:I:1029:ARG:NH1	2.20	0.57
3:N:812:ALA:O	3:N:816:HIS:HB2	2.04	0.57
3:I:162:ARG:HG3	3:I:452:ILE:HD12	1.86	0.57
2:M:767:PRO:HB3	2:M:772:ARG:HH21	1.68	0.57
3:D:980:MET:SD	7:X:147:ARG:NH1	2.78	0.57
3:N:688:TRP:HA	3:N:688:TRP:HE3	1.69	0.57
1:F:56:VAL:HG21	1:F:82:LEU:HD12	1.86	0.57
2:M:679:PHE:O	2:M:680:ASP:C	2.43	0.57
2:H:124:ASP:HB3	2:H:592:LEU:HD12	1.87	0.57
1:A:64:GLU:O	1:A:75:VAL:HB	2.04	0.57
4:E:25:LYS:O	4:E:29:GLN:HG3	2.04	0.57
3:I:191:LEU:HD21	3:I:203:ALA:CB	2.34	0.57
3:I:1422:MET:CE	3:I:1427:SER:HA	2.35	0.57
1:F:36:LEU:C	1:F:39:PRO:HD2	2.24	0.57
3:I:204:LEU:HB2	3:I:394:LEU:CG	2.34	0.57
2:C:1037:VAL:HG13	2:C:1049:LEU:CD1	2.33	0.57
2:M:689:VAL:O	2:M:869:VAL:HG23	2.04	0.57
3:D:162:ARG:HG3	3:D:452:ILE:HD12	1.87	0.57
3:D:461:ILE:HD13	3:D:461:ILE:N	2.18	0.57
3:I:1352:ILE:HG21	3:I:1368:ILE:CD1	2.28	0.57
2:M:52:PHE:CE1	2:M:67:ASP:C	2.78	0.57
3:N:26:VAL:HG11	3:N:44:LEU:HD23	1.85	0.57
3:N:1434:TRP:CD1	3:N:1435:LEU:N	2.73	0.57
2:C:64:LEU:HD13	2:C:359:MET:HG3	1.86	0.57
3:I:1047:LYS:CB	3:I:1048:PRO:CD	2.81	0.57
3:N:762:GLN:HE21	4:O:20:THR:CG2	2.17	0.57
2:M:516:ARG:HG3	3:N:1068:LEU:HD13	1.84	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:102:LYS:HB3	1:F:139:ASN:CG	2.24	0.57
2:M:585:GLU:O	2:M:588:VAL:HG22	2.05	0.57
2:M:684:PHE:CG	2:M:685:GLU:N	2.72	0.57
2:C:500:ASN:ND2	2:C:500:ASN:N	2.51	0.57
1:L:12:THR:OG1	1:L:24:VAL:HB	2.04	0.57
2:C:1029:GLY:O	3:D:622:ARG:HB3	2.04	0.57
2:H:1016:ILE:HG13	2:H:1017:THR:H	1.69	0.57
1:G:151:VAL:HG12	1:G:156:HIS:HD2	1.70	0.57
2:H:184:MET:HB2	2:H:193:LEU:CG	2.32	0.57
2:H:211:LEU:HD21	2:H:221:LEU:HD22	1.85	0.57
4:E:15:SER:O	4:E:18:ARG:HB3	2.04	0.57
2:C:338:GLU:O	2:C:341:THR:HG22	2.05	0.57
3:N:206:ARG:HG3	3:N:391:ALA:HB3	1.86	0.57
2:C:839:LEU:HD21	2:C:849:VAL:HG23	1.86	0.57
2:C:857:ASP:HB2	2:C:978:ARG:CG	2.23	0.57
2:M:939:ARG:HA	2:M:939:ARG:NE	2.12	0.57
2:C:950:LEU:HB3	2:C:952:LEU:CD2	2.28	0.57
2:M:304:LEU:HG	2:M:305:PRO:CD	2.35	0.57
3:N:814:ALA:HB1	3:N:818:ARG:HH21	1.68	0.57
2:M:606:VAL:CG2	2:M:645:VAL:HG13	2.29	0.57
2:C:224:GLU:OE1	2:C:226:VAL:CG1	2.53	0.57
2:H:1097:LEU:HD23	3:I:10:ILE:HG12	1.86	0.57
2:M:966:LEU:HD21	2:M:986:PRO:HG2	1.85	0.57
3:I:637:LEU:CD1	3:I:641:GLN:HB2	2.34	0.57
2:H:496:ILE:HG13	2:H:531:PHE:HB2	1.87	0.57
2:H:937:ASP:OD2	2:H:939:ARG:HG2	2.04	0.57
2:H:1076:VAL:CG1	3:I:752:SER:HA	2.34	0.57
3:D:879:ARG:O	3:D:882:PHE:HB3	2.05	0.57
1:K:86:VAL:HG13	1:K:124:ASN:HB2	1.87	0.57
3:I:703:ASN:HD21	3:I:707:THR:HG23	1.70	0.57
2:M:897:LEU:HD21	2:M:921:ALA:CA	2.35	0.57
1:F:101:LEU:HB2	1:F:114:PHE:CD2	2.39	0.57
1:B:27:PRO:C	1:B:28:LEU:HD23	2.25	0.57
2:C:524:VAL:HG13	2:C:528:GLU:OE1	2.04	0.57
3:D:1281:VAL:HG21	3:D:1313:VAL:CG2	2.34	0.57
2:M:175:GLU:OE1	2:M:177:GLU:HB2	2.04	0.57
3:N:651:GLU:HA	3:N:651:GLU:OE1	2.03	0.57
7:Y:141:ASP:OD2	7:Y:142:THR:N	2.38	0.57
3:I:1389:LEU:HD12	3:I:1390:LEU:HD23	1.86	0.57
7:Z:14:ARG:HB3	7:Z:14:ARG:NH1	2.19	0.57
2:H:191:PHE:HE2	2:H:195:LEU:HB3	1.67	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:206:THR:HG23	2:H:207:LEU:H	1.69	0.57
2:H:212:GLY:HA3	2:H:218:VAL:HG21	1.85	0.57
2:H:338:GLU:HA	2:H:341:THR:CG2	2.35	0.57
3:I:1106:VAL:HG21	3:I:1474:ALA:HB2	1.87	0.57
1:B:80:LEU:HG	3:D:844:ALA:HA	1.86	0.57
2:C:433:THR:HG21	2:C:488:ALA:HB1	1.85	0.57
3:D:181:ASP:O	3:D:205:TYR:N	2.38	0.57
3:I:1148:VAL:HG13	3:I:1163:GLY:O	2.04	0.57
4:E:48:MET:N	4:E:54:LEU:HB2	2.20	0.57
3:N:10:ILE:O	3:N:10:ILE:HG22	2.03	0.57
1:A:167:VAL:HG12	1:A:168:ASP:N	2.19	0.57
2:H:251:ASP:C	2:H:253:ALA:H	2.08	0.57
2:M:496:ILE:HA	2:M:531:PHE:O	2.05	0.57
2:H:512:ARG:CA	2:H:523:ILE:HD11	2.35	0.57
1:B:165:ILE:CD1	1:B:165:ILE:N	2.65	0.57
2:C:121:MET:HE3	2:C:125:GLY:O	2.05	0.57
1:G:12:THR:OG1	1:G:24:VAL:HB	2.03	0.57
2:M:31:GLN:O	2:M:71:TYR:OH	2.13	0.57
3:D:687:VAL:O	3:D:690:ALA:HB3	2.05	0.57
1:G:94:LEU:HD13	1:G:120:VAL:HG22	1.86	0.57
3:D:1295:GLU:N	3:D:1295:GLU:OE2	2.37	0.57
2:C:1009:SER:OG	2:C:1010:THR:N	2.37	0.57
2:H:1059:ASP:OD1	2:H:1062:GLY:N	2.37	0.57
2:H:144:PRO:HA	2:H:163:ILE:HG13	1.85	0.57
2:H:266:ARG:HA	2:H:288:ARG:HD2	1.85	0.57
2:C:516:ARG:HE	3:D:1068:LEU:HD13	1.69	0.57
3:D:1102:THR:HA	3:D:1105:ILE:CD1	2.31	0.57
3:D:1213:ARG:HG3	3:D:1214:PRO:HD2	1.87	0.57
3:N:1080:GLY:HA2	7:Z:49:GLU:HG3	1.85	0.57
2:H:946:ARG:NH2	3:I:859:ASP:HB3	2.19	0.57
1:K:45:LEU:HD11	1:K:177:VAL:CG2	2.35	0.57
3:I:914:LEU:HD22	3:I:930:LEU:HD21	1.87	0.57
3:D:844:ALA:O	3:D:867:ARG:HB3	2.05	0.57
3:N:1330:ILE:HG13	3:N:1347:TYR:HE1	1.70	0.57
3:N:1264:GLU:OE2	3:N:1424:VAL:N	2.38	0.57
3:I:520:LEU:CD1	3:I:521:PRO:HD2	2.34	0.57
3:D:1091:SER:HB3	5:P:19:DC:C5'	2.33	0.57
3:I:1264:GLU:HG2	3:I:1266:ARG:HH21	1.70	0.57
3:I:814:ALA:HB1	3:I:818:ARG:NH2	2.18	0.57
2:M:257:VAL:HG12	2:M:263:ASP:CG	2.25	0.57
2:H:878:SER:HA	3:I:1034:GLN:NE2	2.19	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:1001:VAL:HB	3:I:724:GLN:NE2	2.19	0.57
2:M:958:THR:CG2	2:M:961:GLU:HG3	2.30	0.57
2:H:502:PRO:HB2	2:H:509:ALA:CB	2.34	0.57
2:M:474:VAL:HG23	2:M:478:VAL:C	2.24	0.57
2:M:756:VAL:HB	2:M:790:LEU:HB3	1.87	0.57
2:H:6:PHE:N	2:H:6:PHE:CD1	2.73	0.57
2:H:901:TYR:N	2:H:901:TYR:CD1	2.72	0.57
1:L:39:PRO:O	1:L:43:ILE:HG12	2.03	0.57
1:L:52:ALA:HB1	1:L:170:VAL:H	1.69	0.57
1:L:54:THR:HG21	1:L:158:ILE:HG13	1.86	0.57
2:H:1052:MET:SD	2:H:1056:LYS:HD3	2.45	0.57
2:M:498:GLN:HE21	2:M:499:ALA:H	1.52	0.57
3:N:39:PRO:O	3:N:40:GLU:O	2.22	0.57
3:D:610:LYS:O	3:D:615:ARG:HG2	2.04	0.57
2:M:122:THR:HG22	2:M:123:GLU:N	2.19	0.57
2:C:437:ARG:C	2:C:438:ILE:HD12	2.25	0.57
3:N:133:ILE:O	3:N:152:LEU:HB2	2.05	0.57
3:N:1043:GLY:O	3:N:1057:VAL:N	2.34	0.57
3:N:875:THR:CG2	3:N:879:ARG:CB	2.83	0.57
3:D:789:LEU:HD11	3:D:934:LEU:HD22	1.87	0.57
3:I:525:ARG:O	3:I:525:ARG:HG2	2.03	0.57
3:N:1253:THR:HB	3:N:1258:ARG:HD3	1.87	0.57
2:M:211:LEU:CD2	2:M:221:LEU:CD2	2.82	0.57
2:M:183:SER:C	2:M:193:LEU:HD11	2.24	0.57
1:F:18:ARG:O	1:F:207:PRO:HD3	2.05	0.57
1:L:123:MET:C	1:L:125:PRO:HD3	2.26	0.57
1:G:185:ARG:NH1	3:I:692:GLU:HB2	2.18	0.57
3:D:982:PHE:HD2	3:D:982:PHE:H	1.52	0.57
2:H:512:ARG:HA	2:H:523:ILE:HD11	1.85	0.57
2:H:468:ARG:HG2	2:H:486:MET:O	2.04	0.57
1:K:198:ARG:HD3	1:K:200:TRP:CH2	2.40	0.57
2:H:171:TRP:CH2	2:H:417:GLY:O	2.58	0.57
3:I:893:GLU:O	3:I:896:ALA:HB3	2.05	0.57
2:C:153:ALA:O	2:C:155:PRO:HD3	2.05	0.57
3:D:781:PRO:HB2	3:D:786:ILE:HD11	1.86	0.56
3:I:107:ASP:O	3:I:108:VAL:C	2.44	0.56
3:D:1094:LEU:HG	3:D:1098:LEU:HD11	1.87	0.56
3:D:1481:VAL:O	3:D:1481:VAL:HG12	2.03	0.56
3:D:1209:LEU:HD21	4:E:16:LYS:NZ	2.19	0.56
3:N:204:LEU:HD11	3:N:441:ARG:NH1	2.19	0.56
3:D:142:LEU:HD22	3:D:145:VAL:C	2.25	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:394:LEU:H	3:D:394:LEU:HD23	1.69	0.56
1:G:56:VAL:O	1:G:164:ALA:HB1	2.06	0.56
2:M:127:PHE:CE1	2:M:136:ILE:HD13	2.40	0.56
2:M:289:THR:HG22	2:M:290:LEU:HD23	1.87	0.56
3:D:465:LEU:HD21	3:D:509:PRO:CB	2.26	0.56
2:H:254:VAL:HA	2:H:257:VAL:HG23	1.86	0.56
3:I:1397:LYS:HE2	3:I:1432:LYS:HZ1	1.70	0.56
3:N:699:VAL:HA	3:N:718:PRO:HD3	1.86	0.56
3:D:1404:ASN:CG	3:D:1408:ILE:HD13	2.24	0.56
3:I:857:ILE:H	3:I:857:ILE:CD1	2.17	0.56
1:K:39:PRO:HG3	1:L:39:PRO:HG3	1.86	0.56
1:B:59:GLU:OE2	1:B:139:ASN:CB	2.53	0.56
2:H:187:ASN:CG	2:H:187:ASN:O	2.44	0.56
3:N:1459:LEU:HD23	3:N:1465:ASN:ND2	2.19	0.56
2:M:504:GLU:CG	2:M:504:GLU:O	2.53	0.56
1:B:56:VAL:HG13	1:B:142:VAL:HG12	1.86	0.56
2:H:1016:ILE:HG13	2:H:1017:THR:N	2.20	0.56
3:N:959:GLU:O	3:N:962:GLN:HB3	2.05	0.56
2:H:795:GLY:O	2:H:796:GLU:HG2	2.05	0.56
2:H:153:ALA:O	2:H:155:PRO:HD3	2.05	0.56
2:M:50:GLU:HG2	2:M:51:THR:HG23	1.87	0.56
2:H:338:GLU:CA	2:H:341:THR:HG22	2.35	0.56
3:D:782:SER:O	3:D:785:ILE:CD1	2.52	0.56
2:C:1086:ARG:CB	2:C:1112:PHE:HE2	2.04	0.56
7:Z:28:GLU:O	7:Z:32:ILE:HG13	2.05	0.56
1:B:152:PRO:HG2	3:D:857:ILE:CD1	2.35	0.56
3:D:206:ARG:HB3	3:D:207:PHE:CD1	2.40	0.56
2:M:1083:GLU:OE2	3:N:87:ARG:CZ	2.53	0.56
2:M:196:LEU:O	2:M:199:VAL:HB	2.05	0.56
2:M:722:ILE:HD13	2:M:722:ILE:O	2.04	0.56
3:I:1198:TYR:OH	3:I:1432:LYS:HD3	2.05	0.56
1:L:25:LEU:CD2	1:L:28:LEU:HD21	2.35	0.56
3:D:1231:GLU:CB	3:D:1232:PRO:HD3	2.34	0.56
3:D:198:ARG:HG3	3:D:198:ARG:NH1	2.17	0.56
3:D:684:LYS:HB2	3:D:687:VAL:HG23	1.87	0.56
3:I:54:LYS:HG3	3:I:55:ASP:N	2.20	0.56
2:H:598:GLU:HB2	2:H:615:TYR:OH	2.05	0.56
2:M:1063:ARG:C	2:M:1063:ARG:HD3	2.26	0.56
2:M:1105:LYS:HD2	2:M:1107:ASN:HD22	1.69	0.56
1:L:101:LEU:HD23	1:L:101:LEU:C	2.25	0.56
2:M:119:PRO:HG2	2:M:386:PHE:CD2	2.40	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:293:PHE:C	2:M:293:PHE:CD1	2.78	0.56
2:H:139:GLN:HE22	2:H:415:PRO:HD3	1.69	0.56
2:C:882:LEU:HD21	3:D:1038:LEU:CD2	2.35	0.56
3:D:1061:PHE:HE1	3:D:1065:LEU:HD22	1.71	0.56
3:D:1109:GLU:HG2	3:D:1202:GLN:H	1.71	0.56
3:N:356:PRO:CA	3:N:441:ARG:HA	2.35	0.56
1:G:34:VAL:HG11	2:H:978:ARG:HB3	1.87	0.56
2:H:676:ILE:HG22	2:H:988:VAL:HG13	1.86	0.56
2:M:204:GLN:OE1	2:M:204:GLN:N	2.38	0.56
3:D:1435:LEU:HD13	3:D:1457:ASP:CG	2.25	0.56
1:B:79:ILE:HD12	1:B:80:LEU:N	2.21	0.56
3:D:47:GLU:O	3:D:51:GLY:CA	2.53	0.56
2:C:140:ILE:HD11	2:C:412:ALA:CA	2.28	0.56
3:N:141:ILE:HG13	3:N:448:GLU:OE2	2.04	0.56
3:N:142:LEU:O	3:N:161:LEU:HD23	2.05	0.56
3:N:789:LEU:O	3:N:792:ILE:HG23	2.05	0.56
3:N:1391:GLU:OE1	3:N:1393:GLN:NE2	2.38	0.56
3:D:800:LYS:HD2	3:D:804:LEU:HD22	1.88	0.56
3:D:789:LEU:CD1	3:D:911:LEU:HD21	2.35	0.56
2:M:64:LEU:HD22	2:M:359:MET:CG	2.29	0.56
3:N:1372:VAL:HG23	3:N:1375:MET:HE3	1.87	0.56
3:D:368:VAL:HB	3:D:377:VAL:CG2	2.35	0.56
3:D:205:TYR:HD1	3:D:390:PRO:HG3	1.69	0.56
3:N:119:SER:OG	3:N:123:LEU:HD22	2.05	0.56
1:A:184:THR:HG1	1:A:192:LEU:HB2	1.64	0.56
3:N:170:PRO:HA	3:N:392:SER:CB	2.35	0.56
2:H:1041:GLU:OE1	3:I:1223:ILE:HD11	2.05	0.56
3:N:470:LEU:HD12	3:N:503:LEU:CD2	2.36	0.56
2:M:197:LEU:HA	2:M:200:LEU:HD21	1.85	0.56
2:H:878:SER:HB3	3:I:1029:ARG:HH11	1.71	0.56
3:I:1031:ASN:OD1	3:I:1033:GLN:HB3	2.04	0.56
2:C:571:LEU:HD21	2:C:700:TYR:HA	1.88	0.56
3:I:1372:VAL:HA	3:I:1375:MET:CE	2.35	0.56
1:B:206:THR:HG22	1:B:209:GLU:H	1.71	0.56
3:D:1128:VAL:C	3:D:1129:THR:HG22	2.26	0.56
2:H:435:TYR:HA	3:I:1071:PHE:HE2	1.70	0.56
3:I:700:VAL:HG22	3:I:718:PRO:HG3	1.86	0.56
1:K:67:THR:CG2	2:M:627:ARG:HD2	2.36	0.56
1:K:124:ASN:HD21	1:K:127:LEU:HD22	1.70	0.56
1:G:19:GLU:O	1:G:200:TRP:HA	2.04	0.56
2:H:890:LEU:HD21	2:H:901:TYR:CD1	2.40	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:88:LEU:HD22	2:M:814:GLU:CD	2.26	0.56
3:N:581:LEU:CD2	3:N:581:LEU:H	2.16	0.56
4:O:37:ASN:ND2	4:O:93:TYR:CD2	2.72	0.56
2:H:389:SER:C	2:H:391:LEU:H	2.08	0.56
3:D:402:PRO:CA	3:D:443:VAL:HG23	2.35	0.56
3:I:54:LYS:CG	3:I:55:ASP:N	2.68	0.56
1:A:20:TYR:HE2	1:A:198:ARG:HB2	1.71	0.56
3:N:1128:VAL:O	3:N:1129:THR:HG22	2.04	0.56
3:D:577:ALA:O	3:D:580:ALA:HB3	2.05	0.56
2:C:931:GLY:C	2:C:933:GLY:N	2.57	0.56
3:N:55:ASP:OD1	3:N:55:ASP:N	2.37	0.56
2:C:187:ASN:O	2:C:188:LYS:HB2	2.06	0.56
1:A:197:LEU:HD23	1:A:197:LEU:H	1.69	0.56
1:B:128:HIS:CE1	1:B:131:THR:HG23	2.40	0.56
3:D:215:TYR:CE1	3:D:380:GLU:HB2	2.41	0.56
2:M:732:ALA:O	2:M:735:ARG:HG3	2.06	0.56
2:H:464:LEU:O	2:H:464:LEU:HD12	2.06	0.56
2:C:676:ILE:HG22	2:C:988:VAL:O	2.04	0.56
4:O:54:LEU:HA	4:O:58:PRO:CG	2.36	0.56
3:N:799:LYS:O	3:N:826:PRO:HG2	2.05	0.56
2:M:1084:SER:O	2:M:1087:VAL:HG12	2.05	0.56
2:C:579:VAL:HB	2:C:890:LEU:HD22	1.86	0.56
3:D:767:HIS:HA	3:D:924:MET:SD	2.45	0.56
3:D:495:ARG:O	3:D:499:VAL:HG23	2.04	0.56
2:C:226:VAL:HG13	2:C:227:PHE:CD1	2.41	0.56
2:H:555:ALA:HA	3:I:1070:TYR:OH	2.05	0.56
3:D:1261:GLU:OE1	3:D:1268:PRO:HA	2.05	0.56
3:I:670:VAL:HG13	3:I:671:LYS:N	2.20	0.56
2:M:47:ALA:O	2:M:348:LEU:HD23	2.05	0.56
2:H:9:ILE:HG12	2:H:907:ASP:CG	2.25	0.56
2:M:1102:LEU:HA	2:M:1107:ASN:O	2.05	0.56
3:I:953:ASP:OD1	3:I:1019:PRO:HG2	2.05	0.56
2:H:439:CYS:HB2	2:H:541:SER:HB2	1.87	0.56
2:H:281:LEU:O	2:H:282:GLY:O	2.24	0.56
2:C:838:LYS:NZ	2:C:846:LYS:HZ1	2.03	0.56
2:C:1097:LEU:HD21	3:D:1447:LEU:HB3	1.86	0.56
3:D:1448:THR:O	3:D:1451:ALA:HB3	2.06	0.56
3:N:889:ALA:HB1	3:N:930:LEU:HA	1.88	0.56
3:D:833:GLU:OE2	3:D:833:GLU:HA	2.06	0.56
2:C:897:LEU:HD21	2:C:921:ALA:CA	2.35	0.56
2:H:606:VAL:HG21	2:H:645:VAL:N	2.20	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:806:PHE:CD1	3:I:809:PRO:O	2.58	0.56
2:M:260:LEU:CA	2:M:291:ALA:HB1	2.35	0.56
2:C:670:GLN:NE2	2:C:699:PHE:O	2.38	0.56
3:I:655:PRO:O	3:I:658:LEU:HB2	2.05	0.56
3:D:875:THR:HG22	3:D:879:ARG:HB2	1.87	0.56
1:A:161:ARG:CZ	1:F:102:LYS:HE3	2.34	0.56
3:N:543:LEU:HD21	3:N:600:LEU:HD13	1.87	0.56
7:Z:83:ILE:CD1	7:Z:89:VAL:HG21	2.36	0.56
3:N:1459:LEU:CD2	3:N:1470:ARG:HH21	2.19	0.56
4:J:41:GLU:N	4:J:42:PRO:CD	2.69	0.56
1:B:170:VAL:HG11	3:D:848:GLU:OE2	2.06	0.56
3:I:1281:VAL:HG12	3:I:1282:ARG:N	2.20	0.56
2:H:265:ARG:HB3	2:H:267:TYR:CD2	2.41	0.56
2:H:275:TYR:CD2	2:H:276:LYS:HG3	2.41	0.56
3:D:1042:ARG:HH11	3:D:1042:ARG:CB	2.19	0.56
3:N:982:PHE:HA	7:Z:125:MET:SD	2.46	0.56
1:G:40:LEU:HD21	1:G:215:VAL:HG12	1.88	0.56
4:J:13:VAL:HG11	4:J:18:ARG:HB3	1.85	0.56
2:H:554:ASP:HB2	3:I:1061:PHE:HE2	1.69	0.56
1:G:30:ARG:HH12	2:H:854:PRO:HB3	1.71	0.56
3:N:1462:LEU:N	3:N:1462:LEU:HD23	2.20	0.56
2:C:202:TYR:CZ	2:C:304:LEU:HD22	2.41	0.56
2:M:206:THR:HG23	2:M:207:LEU:N	2.19	0.56
2:M:678:PRO:HG3	2:M:873:PRO:HD2	1.87	0.56
2:M:762:LYS:HE3	2:M:786:LYS:CE	2.36	0.56
2:H:838:LYS:O	2:H:838:LYS:HG3	2.04	0.56
2:M:129:ILE:HD12	2:M:129:ILE:N	2.20	0.56
2:M:78:PHE:HB3	2:M:79:PRO:CD	2.36	0.56
2:M:430:VAL:HG13	2:M:430:VAL:O	2.04	0.56
1:K:14:ARG:HH22	1:K:24:VAL:HG23	1.70	0.56
1:L:24:VAL:HG13	1:L:196:THR:HG22	1.88	0.56
2:H:441:VAL:HG12	2:H:559:LEU:HA	1.87	0.56
3:N:1065:LEU:HD23	3:N:1070:TYR:HD2	1.71	0.56
4:E:83:ASP:O	4:E:86:GLN:HG2	2.05	0.56
2:H:266:ARG:C	2:H:288:ARG:HD3	2.26	0.56
2:C:680:ASP:O	3:D:939:PHE:HB3	2.04	0.56
3:N:204:LEU:HB3	3:N:394:LEU:HG	1.86	0.56
3:N:95:LEU:CD2	3:N:574:LEU:HD21	2.36	0.56
3:N:1381:VAL:HG21	3:N:1391:GLU:HB2	1.87	0.56
2:H:317:VAL:HG12	2:H:317:VAL:O	2.04	0.56
3:I:142:LEU:HD23	3:I:146:PRO:HA	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:41:ARG:HG3	1:L:177:VAL:CG2	2.32	0.56
3:D:157:GLU:HA	3:D:160:GLU:HB3	1.86	0.56
1:A:88:ARG:HD3	1:A:123:MET:HE1	1.87	0.56
1:L:185:ARG:HD3	3:N:692:GLU:OE2	2.05	0.56
3:N:700:VAL:HB	3:N:748:HIS:O	2.05	0.56
1:F:24:VAL:HG13	1:F:196:THR:CG2	2.32	0.56
1:A:102:LYS:HE3	1:F:57:TYR:HE2	1.70	0.56
2:C:218:VAL:HG23	2:C:311:PHE:CE1	2.38	0.56
2:M:77:PRO:CD	2:M:91:GLN:O	2.54	0.56
7:Z:82:VAL:HG13	7:Z:132:HIS:O	2.05	0.56
4:O:37:ASN:N	4:O:37:ASN:HD22	2.03	0.56
3:N:1457:ASP:O	3:N:1459:LEU:HD12	2.06	0.56
3:D:1108:ARG:H	3:D:1108:ARG:HD3	1.68	0.56
3:N:1145:TYR:CD2	3:N:1168:MET:SD	2.99	0.56
1:K:175:ARG:HD3	1:K:176:ARG:HG2	1.88	0.56
2:M:931:GLY:O	2:M:933:GLY:N	2.39	0.56
2:C:261:ILE:H	2:C:261:ILE:HD12	1.70	0.56
3:N:1169:ASP:O	3:N:1172:HIS:HB2	2.06	0.56
2:H:285:LEU:HD11	2:H:288:ARG:O	2.06	0.56
2:C:588:VAL:HG11	2:C:661:SER:HB3	1.86	0.56
3:N:181:ASP:CB	3:N:441:ARG:HD3	2.34	0.56
2:H:1046:ALA:CB	3:I:1476:THR:HB	2.36	0.56
2:C:170:PRO:HG2	2:C:258:TYR:HE1	1.68	0.56
3:D:10:ILE:O	3:D:1454:GLY:HA2	2.05	0.56
3:D:1223:ILE:HD11	3:D:1462:LEU:HD12	1.88	0.56
2:C:140:ILE:HD12	2:C:140:ILE:O	2.05	0.56
4:O:46:PRO:HB2	4:O:54:LEU:CD2	2.36	0.56
3:I:577:ALA:O	3:I:580:ALA:HB3	2.06	0.56
3:D:639:LEU:HD22	3:D:766:ALA:HA	1.88	0.56
3:N:366:LYS:NZ	3:N:376:GLU:OE1	2.34	0.56
2:M:937:ASP:HB3	2:M:940:GLU:HG3	1.88	0.56
2:H:642:ARG:HG2	2:H:657:ASP:OD2	2.06	0.56
3:D:550:ARG:NE	3:D:573:MET:HE3	2.21	0.56
2:M:578:VAL:HG11	2:M:991:GLN:HB3	1.87	0.56
3:I:954:ALA:O	3:I:1062:ARG:NH1	2.36	0.56
3:N:215:TYR:HA	3:N:382:GLU:O	2.05	0.56
2:M:657:ASP:HB3	2:M:661:SER:O	2.06	0.56
2:H:236:ILE:HD11	2:H:249:LYS:HZ2	1.69	0.56
3:D:1291:SER:HB2	3:D:1293:PHE:CE1	2.39	0.56
2:C:94:LEU:HD12	2:C:95:TYR:O	2.06	0.56
3:I:1274:ILE:HG13	3:I:1334:GLN:NE2	2.20	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:1173:LEU:HD12	3:I:1176:LYS:CE	2.35	0.56
1:A:26:GLU:OE2	1:A:194:LYS:HE3	2.06	0.56
3:N:440:VAL:HB	3:N:441:ARG:HH21	1.71	0.56
3:I:1209:LEU:HD23	3:I:1211:MET:N	2.05	0.56
3:D:1099:VAL:O	3:D:1103:HIS:CB	2.50	0.56
7:Z:29:ALA:O	7:Z:32:ILE:HB	2.05	0.56
3:D:826:PRO:HD2	3:D:829:VAL:CG2	2.36	0.56
3:D:181:ASP:CA	3:D:205:TYR:HB3	2.35	0.56
3:I:127:LEU:HD23	3:I:134:VAL:HG13	1.88	0.56
2:C:708:TYR:CE2	2:C:793:PRO:HD2	2.40	0.56
3:N:955:VAL:O	3:N:1039:CYS:HB3	2.05	0.56
3:D:1326:THR:CG2	3:D:1327:ARG:H	2.19	0.56
2:C:64:LEU:CD2	2:C:359:MET:HG3	2.36	0.56
3:I:1435:LEU:HD21	3:I:1468:LEU:HD21	1.88	0.56
3:I:139:GLY:H	3:I:147:VAL:HG21	1.70	0.56
3:N:554:LEU:HD13	3:N:570:GLU:HB3	1.88	0.56
2:C:89:THR:HG21	2:C:383:ARG:HH22	1.70	0.56
2:C:722:ILE:CG2	2:C:821:GLU:OE1	2.54	0.56
3:N:759:ALA:O	3:N:763:MET:HB3	2.05	0.56
1:K:75:VAL:O	1:K:79:ILE:HG23	2.05	0.56
3:D:1108:ARG:NH2	3:D:1198:TYR:O	2.39	0.56
4:O:30:LEU:HD22	4:O:35:PHE:CZ	2.41	0.56
3:N:1299:PHE:N	3:N:1299:PHE:CD2	2.72	0.56
2:C:642:ARG:HD3	2:C:642:ARG:O	2.05	0.56
3:D:540:LEU:H	3:D:540:LEU:HD12	1.70	0.56
2:H:293:PHE:CD1	2:H:293:PHE:C	2.77	0.56
3:I:47:GLU:O	3:I:51:GLY:N	2.38	0.56
7:Z:15:LEU:HD22	7:Z:65:LEU:HD22	1.87	0.56
2:H:221:LEU:C	2:H:223:ASP:N	2.60	0.56
3:D:1263:PHE:HB3	3:D:1424:VAL:CG1	2.36	0.56
3:I:1209:LEU:HD22	3:I:1211:MET:HB3	1.86	0.56
2:C:194:VAL:O	2:C:197:LEU:HB2	2.06	0.56
2:C:1038:TRP:CE2	3:D:1099:VAL:HG11	2.41	0.56
3:N:154:THR:HG23	3:N:157:GLU:H	1.71	0.56
2:H:684:PHE:CD2	2:H:685:GLU:N	2.74	0.56
3:N:1098:LEU:HD21	3:N:1229:ILE:HB	1.87	0.56
2:C:571:LEU:HD11	2:C:701:THR:H	1.71	0.56
3:I:185:VAL:CG2	3:I:189:GLN:HE22	2.11	0.56
2:H:642:ARG:NH1	2:H:657:ASP:OD2	2.39	0.56
3:I:452:ILE:C	3:I:452:ILE:HD13	2.26	0.56
7:X:91:LEU:HB3	7:X:149:PHE:HB3	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:838:LYS:C	2:H:839:LEU:HD23	2.26	0.56
2:C:405:ARG:HD2	2:C:442:GLU:OE1	2.06	0.56
2:C:442:GLU:CG	2:C:454:SER:HB2	2.34	0.56
1:F:161:ARG:HB2	1:F:161:ARG:CZ	2.35	0.56
2:C:221:LEU:C	2:C:221:LEU:HD12	2.26	0.56
3:N:115:LEU:C	3:N:115:LEU:HD23	2.26	0.56
3:I:1104:GLU:HG3	3:I:1105:ILE:HD13	1.88	0.56
2:C:588:VAL:CG1	2:C:661:SER:HB3	2.36	0.55
2:H:986:PRO:O	2:H:987:ILE:HD13	2.06	0.55
3:D:1452:ILE:HD13	3:D:1452:ILE:H	1.71	0.55
1:K:44:LEU:HD23	1:K:48:ILE:CD1	2.28	0.55
2:C:274:ARG:NE	2:C:285:LEU:HD22	2.21	0.55
2:H:681:GLY:C	3:I:635:PRO:HG3	2.26	0.55
2:H:853:LEU:CB	2:H:858:MET:CE	2.81	0.55
2:M:1082:PRO:C	2:M:1084:SER:N	2.59	0.55
3:D:170:PRO:HA	3:D:392:SER:HB3	1.88	0.55
3:D:347:VAL:HG13	3:D:351:MET:CB	2.31	0.55
3:I:29:PRO:CB	3:I:545:ARG:HG3	2.36	0.55
3:I:127:LEU:C	3:I:127:LEU:CD1	2.74	0.55
3:D:638:LYS:HD3	3:D:932:ASP:CG	2.26	0.55
2:M:94:LEU:HD12	2:M:95:TYR:O	2.07	0.55
3:I:1047:LYS:NZ	3:I:1053:PHE:HA	2.21	0.55
3:I:714:GLN:HG3	3:I:736:PHE:CZ	2.41	0.55
2:M:730:SER:O	2:M:734:LEU:HD13	2.06	0.55
3:I:1129:THR:HG23	3:I:1130:ARG:H	1.71	0.55
1:B:23:PHE:O	1:B:196:THR:HA	2.07	0.55
1:L:81:ASN:O	1:L:84:GLU:HB3	2.06	0.55
3:D:1189:ARG:HG3	3:D:1189:ARG:HH11	1.70	0.55
2:H:445:GLU:HG3	2:H:560:MET:HE3	1.85	0.55
1:F:221:HIS:HA	1:F:224:TYR:HD2	1.71	0.55
1:L:19:GLU:HG3	1:L:201:THR:O	2.05	0.55
2:M:486:MET:CE	2:M:491:GLU:HA	2.37	0.55
2:C:13:ILE:O	2:C:13:ILE:HG13	2.05	0.55
2:H:341:THR:O	2:H:345:ARG:HD3	2.06	0.55
3:I:493:ARG:HG3	3:I:494:LYS:N	2.20	0.55
3:D:1216:SER:HB3	4:E:15:SER:OG	2.05	0.55
3:N:434:ARG:HB3	3:N:447:VAL:CG2	2.36	0.55
3:I:1106:VAL:HG11	3:I:1474:ALA:HB2	1.88	0.55
2:H:927:GLY:HA2	2:H:930:LYS:CD	2.36	0.55
3:I:889:ALA:HB1	3:I:930:LEU:HA	1.89	0.55
2:C:1005:MET:HE1	3:D:724:GLN:HA	1.87	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1388:ARG:O	3:N:1391:GLU:HG3	2.06	0.55
3:I:84:ILE:HG13	3:I:85:VAL:N	2.21	0.55
2:H:1083:GLU:OE1	3:I:87:ARG:NH1	2.38	0.55
2:M:80:GLN:O	2:M:83:CYS:HB2	2.07	0.55
2:H:12:VAL:CG1	2:H:534:VAL:HG13	2.36	0.55
2:H:380:ALA:O	2:H:384:GLU:HB2	2.06	0.55
2:M:573:ARG:O	2:M:670:GLN:NE2	2.39	0.55
2:M:432:ARG:HH22	3:N:1047:LYS:CE	2.18	0.55
3:D:13:ALA:HB1	3:D:18:ILE:CD1	2.36	0.55
1:A:56:VAL:HG12	1:A:57:TYR:N	2.20	0.55
3:N:1106:VAL:CG1	3:N:1107:VAL:H	2.18	0.55
4:E:68:LEU:HD12	4:E:73:LEU:HD22	1.87	0.55
2:M:391:LEU:HD23	2:M:391:LEU:C	2.27	0.55
2:M:177:GLU:OE1	2:M:179:ASN:HB2	2.06	0.55
1:L:33:GLY:O	1:L:195:LEU:HD22	2.06	0.55
3:N:1485:GLN:O	4:O:75:PHE:HA	2.06	0.55
2:M:1044:GLY:HA2	3:N:1475:GLY:HA3	1.89	0.55
2:M:523:ILE:HD13	2:M:523:ILE:C	2.26	0.55
2:H:620:LEU:O	2:H:620:LEU:HD12	2.06	0.55
2:H:931:GLY:O	2:H:933:GLY:N	2.39	0.55
2:H:425:PHE:CE2	3:I:1079:LYS:HD3	2.40	0.55
2:C:1096:ALA:N	3:D:101:HIS:NE2	2.52	0.55
3:N:154:THR:CG2	3:N:157:GLU:OE2	2.54	0.55
2:H:688:ILE:HD13	2:H:847:GLY:HA3	1.88	0.55
2:M:1087:VAL:O	2:M:1091:GLU:HG3	2.05	0.55
3:N:1209:LEU:HD23	3:N:1210:SER:N	2.21	0.55
2:M:96:ALA:O	2:M:98:LEU:CD1	2.55	0.55
3:N:1434:TRP:NE1	3:N:1435:LEU:HD13	2.22	0.55
2:C:56:GLU:HB3	2:C:64:LEU:HB3	1.87	0.55
3:D:481:MET:SD	3:D:1388:ARG:HD3	2.46	0.55
3:D:493:ARG:HG3	3:D:494:LYS:H	1.71	0.55
3:N:970:LYS:HG2	3:N:995:LEU:CD1	2.36	0.55
2:H:98:LEU:HD11	2:H:113:VAL:HG23	1.88	0.55
3:I:689:ASP:O	3:I:693:GLU:HB2	2.06	0.55
3:I:1273:VAL:HG21	3:I:1305:LEU:HD21	1.88	0.55
2:M:757:GLY:HA2	2:M:789:SER:OG	2.06	0.55
2:H:142:ARG:HD3	2:H:325:ILE:HG23	1.87	0.55
3:N:411:THR:HG23	3:N:435:VAL:O	2.06	0.55
1:G:179:PHE:HD2	1:G:179:PHE:N	2.04	0.55
3:N:1194:CYS:SG	3:N:1200:VAL:HA	2.46	0.55
2:H:216:GLU:HG2	2:H:219:GLN:CD	2.27	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:175:ARG:HH11	1:L:202:ASP:HB3	1.71	0.55
3:I:780:LYS:HD3	3:I:912:LYS:HE3	1.87	0.55
3:D:1101:VAL:HG11	3:D:1424:VAL:HG23	1.88	0.55
1:F:29:GLU:HB2	1:F:32:PHE:CE1	2.41	0.55
2:H:943:VAL:HG23	2:H:985:GLY:H	1.71	0.55
3:D:1468:LEU:CD1	3:D:1470:ARG:HD3	2.36	0.55
3:D:1468:LEU:HD23	3:D:1468:LEU:O	2.06	0.55
3:D:880:ILE:HG23	3:D:881:LEU:N	2.21	0.55
2:C:54:ILE:HG23	2:C:54:ILE:O	2.06	0.55
3:I:1101:VAL:CG1	3:I:1424:VAL:O	2.55	0.55
2:C:1102:LEU:HA	2:C:1107:ASN:O	2.07	0.55
3:I:637:LEU:HD11	3:I:641:GLN:HB2	1.89	0.55
3:D:409:VAL:HG12	3:D:410:SER:O	2.05	0.55
4:O:70:THR:HB	4:O:72:ARG:CG	2.36	0.55
2:H:6:PHE:HZ	2:H:901:TYR:CD2	2.22	0.55
3:N:939:PHE:O	3:N:943:THR:HG23	2.07	0.55
3:N:590:PRO:O	3:N:600:LEU:HD12	2.06	0.55
2:H:1051:GLU:HG2	2:H:1056:LYS:HE3	1.89	0.55
3:N:354:VAL:HG12	3:N:354:VAL:O	2.06	0.55
3:I:1495:ILE:HG13	4:J:80:VAL:CG1	2.37	0.55
2:M:9:ILE:HG12	2:M:907:ASP:CG	2.27	0.55
2:C:850:ALA:HA	3:D:632:VAL:HG13	1.88	0.55
2:M:198:ARG:HD2	2:M:204:GLN:OE1	2.06	0.55
2:C:1034:GLU:HG3	2:C:1038:TRP:CZ2	2.42	0.55
3:N:804:LEU:HD13	3:N:829:VAL:HB	1.89	0.55
2:H:557:ARG:HG3	2:H:557:ARG:HH11	1.70	0.55
3:D:911:LEU:O	3:D:915:VAL:HG23	2.07	0.55
3:N:1372:VAL:O	3:N:1375:MET:HB2	2.07	0.55
2:M:1004:LYS:HD2	3:N:744:GLN:HE22	1.66	0.55
2:H:1041:GLU:OE1	3:I:1462:LEU:HD12	2.05	0.55
2:M:221:LEU:C	2:M:223:ASP:N	2.60	0.55
2:H:1001:VAL:HG11	3:I:724:GLN:HG3	1.88	0.55
3:D:642:CYS:HB3	3:D:716:PHE:HB3	1.88	0.55
2:H:1013:TYR:HB3	2:H:1018:GLN:NE2	2.19	0.55
2:H:455:LEU:HD13	2:H:459:ALA:CB	2.27	0.55
2:H:642:ARG:CZ	2:H:657:ASP:OD2	2.54	0.55
3:I:1372:VAL:HA	3:I:1375:MET:HE2	1.87	0.55
1:A:215:VAL:HG13	1:B:222:LEU:HD22	1.88	0.55
3:N:1165:TYR:H	3:N:1165:TYR:HD1	1.54	0.55
2:H:937:ASP:O	2:H:941:VAL:HG23	2.06	0.55
3:N:1429:LEU:O	3:N:1441:GLN:NE2	2.40	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:1198:TYR:OH	3:I:1394:VAL:HG11	2.06	0.55
2:C:508:ILE:CD1	2:C:526:PRO:HB3	2.35	0.55
3:D:984:THR:HG23	3:D:987:GLU:H	1.71	0.55
3:N:1280:VAL:O	3:N:1294:VAL:HA	2.06	0.55
1:A:61:VAL:HG11	1:A:75:VAL:HG21	1.87	0.55
2:H:1014:SER:HB2	2:H:1021:LEU:HD12	1.89	0.55
2:H:931:GLY:C	2:H:933:GLY:N	2.59	0.55
2:C:808:ARG:O	2:C:810:ASP:N	2.38	0.55
1:F:156:HIS:HD2	1:F:157:GLY:N	2.04	0.55
1:B:147:GLY:HA3	1:B:171:PHE:CE2	2.41	0.55
3:N:730:PRO:O	3:N:733:CYS:HB2	2.07	0.55
3:N:445:ARG:NH1	3:N:445:ARG:HG2	2.20	0.55
3:I:1209:LEU:O	3:I:1210:SER:C	2.45	0.55
2:M:224:GLU:OE1	2:M:226:VAL:HG12	2.07	0.55
3:N:984:THR:CG2	3:N:987:GLU:H	2.17	0.55
2:H:843:HIS:CD2	2:H:884:GLN:HA	2.41	0.55
3:D:800:LYS:CB	3:D:829:VAL:HG13	2.31	0.55
3:N:770:LEU:HD22	3:N:775:GLY:O	2.07	0.55
3:D:210:ARG:HD3	3:D:344:ASP:OD1	2.06	0.55
1:A:156:HIS:CE1	1:A:158:ILE:HD11	2.41	0.55
2:M:218:VAL:HG13	2:M:221:LEU:HD21	1.89	0.55
3:I:1040:GLY:O	3:I:1041:LEU:HB3	2.07	0.55
4:E:54:LEU:CG	4:E:58:PRO:HG3	2.36	0.55
3:N:1434:TRP:C	3:N:1434:TRP:CD1	2.80	0.55
2:C:196:LEU:O	2:C:199:VAL:HB	2.07	0.55
2:M:831:ARG:NH1	2:M:1000:MET:SD	2.79	0.55
3:I:1465:ASN:HD21	3:I:1470:ARG:CB	2.19	0.55
3:I:1124:GLN:OE1	3:I:1135:ARG:HA	2.07	0.55
2:H:737:LEU:CD2	2:H:742:VAL:O	2.54	0.55
3:D:606:ILE:O	3:D:613:ARG:CG	2.54	0.55
3:D:554:LEU:HD21	3:D:571:LYS:HD3	1.88	0.55
2:H:981:GLU:HG3	2:H:982:PRO:HD2	1.88	0.55
2:H:573:ARG:HB2	2:H:670:GLN:HE22	1.72	0.55
2:C:158:TYR:CE1	2:C:313:LEU:HD11	2.41	0.55
2:M:808:ARG:O	2:M:810:ASP:N	2.39	0.55
2:H:480:THR:HG21	2:H:482:GLU:HB2	1.88	0.55
2:H:367:LEU:HD23	2:H:371:LYS:HE3	1.87	0.55
7:X:26:LEU:HD13	7:X:58:ILE:HG21	1.89	0.55
3:I:1169:ASP:O	3:I:1172:HIS:HB2	2.07	0.55
3:N:126:VAL:O	3:N:130:SER:HB3	2.06	0.55
3:I:203:ALA:HA	3:I:395:VAL:HG22	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1397:LYS:HE2	3:N:1432:LYS:HZ2	1.72	0.55
3:D:1031:ASN:OD1	3:D:1034:GLN:HG3	2.07	0.55
2:C:302:VAL:HG13	2:C:303:PHE:H	1.72	0.55
1:B:80:LEU:HG	3:D:844:ALA:CA	2.36	0.55
1:K:101:LEU:HD22	1:K:140:MET:CE	2.37	0.55
2:M:874:LEU:O	3:N:1029:ARG:CD	2.45	0.55
3:D:1091:SER:CB	5:P:19:DC:H5'	2.34	0.55
2:H:469:THR:OG1	2:H:470:PRO:HD2	2.07	0.55
3:N:501:ALA:HB1	3:N:1452:ILE:HG22	1.88	0.55
2:M:966:LEU:HD21	2:M:986:PRO:HG3	1.88	0.55
2:H:382:ILE:CD1	2:H:382:ILE:H	2.20	0.55
3:N:1066:THR:HG22	3:N:1069:GLU:CB	2.33	0.55
3:N:918:ALA:CB	3:N:927:THR:HG23	2.36	0.55
1:K:84:GLU:HB3	1:K:127:LEU:HD21	1.88	0.55
2:H:571:LEU:HD11	2:H:701:THR:N	2.21	0.55
1:K:43:ILE:HD11	1:L:35:THR:HG21	1.87	0.55
1:L:206:THR:HG22	1:L:209:GLU:H	1.71	0.55
1:F:48:ILE:HG22	1:F:49:PRO:HD2	1.88	0.55
1:F:48:ILE:HG23	1:F:49:PRO:HD2	1.89	0.55
2:H:73:LEU:HB2	2:H:93:PRO:O	2.07	0.55
3:I:1495:ILE:HG13	4:J:80:VAL:HG13	1.88	0.55
4:J:37:ASN:HD22	4:J:37:ASN:N	2.04	0.55
1:B:162:ILE:O	1:B:162:ILE:HD12	2.07	0.55
1:L:138:LEU:HD23	1:L:138:LEU:C	2.27	0.55
3:N:952:ASP:HA	3:N:1062:ARG:HH21	1.71	0.55
1:K:109:VAL:HG21	1:K:138:LEU:HD23	1.89	0.55
2:H:304:LEU:HG	2:H:305:PRO:HD3	1.89	0.55
3:D:1041:LEU:HB2	3:D:1059:SER:O	2.07	0.55
3:I:1481:VAL:O	3:I:1481:VAL:HG12	2.07	0.55
2:M:234:ALA:HA	2:M:237:ARG:HB2	1.89	0.55
3:D:1433:SER:OG	3:D:1457:ASP:OD2	2.25	0.55
3:D:1467:ILE:N	3:D:1467:ILE:HD13	2.22	0.55
2:C:333:ILE:HD13	2:C:467:ILE:HG13	1.89	0.55
3:N:795:VAL:CG2	3:N:879:ARG:NH1	2.65	0.55
3:D:1144:LEU:CD2	3:D:1186:VAL:HG11	2.36	0.55
2:H:853:LEU:CD2	2:H:858:MET:HE2	2.37	0.55
2:C:316:GLY:C	2:C:318:PRO:HD3	2.27	0.55
2:M:404:LEU:O	2:M:408:ARG:HG2	2.07	0.55
2:M:455:LEU:C	2:M:455:LEU:HD12	2.27	0.55
2:M:182:VAL:C	2:M:193:LEU:HD13	2.26	0.55
2:M:272:ALA:O	2:M:276:LYS:NZ	2.24	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:333:ILE:HD12	2:M:410:ILE:HG12	1.89	0.55
2:M:140:ILE:HD11	2:M:412:ALA:CA	2.35	0.55
2:C:182:VAL:C	2:C:193:LEU:HD13	2.26	0.55
1:A:25:LEU:CD2	1:A:28:LEU:HD11	2.30	0.55
2:H:1066:ALA:O	2:H:1070:ILE:HG12	2.07	0.55
3:I:658:LEU:O	3:I:661:MET:HB2	2.06	0.55
1:G:84:GLU:HB3	1:G:127:LEU:HD21	1.88	0.55
1:F:101:LEU:HD23	1:F:102:LYS:N	2.22	0.55
2:C:221:LEU:C	2:C:223:ASP:N	2.57	0.55
7:Y:5:VAL:CG1	7:Y:72:ALA:HB2	2.37	0.55
2:H:816:LYS:HB2	2:H:819:VAL:CG2	2.37	0.55
1:B:101:LEU:HD12	1:B:114:PHE:N	2.22	0.55
2:M:269:LEU:HD23	2:M:269:LEU:C	2.27	0.55
3:D:1034:GLN:O	3:D:1037:GLN:N	2.38	0.55
3:D:1094:LEU:HG	3:D:1098:LEU:HD21	1.89	0.55
3:N:355:VAL:HG11	3:N:385:VAL:HG21	1.86	0.55
2:C:1046:ALA:CB	3:D:1472:ILE:HD11	2.37	0.55
3:D:857:ILE:HG22	3:D:858:VAL:HG13	1.89	0.55
2:H:1102:LEU:HA	2:H:1107:ASN:O	2.07	0.55
3:D:208:PRO:HG2	3:D:347:VAL:HG11	1.89	0.55
1:G:58:ILE:CD1	1:G:140:MET:HB3	2.36	0.55
2:C:110:GLU:HG3	2:C:369:PRO:CG	2.36	0.55
3:N:84:ILE:O	3:N:87:ARG:HG3	2.06	0.55
3:N:807:ALA:HA	3:N:833:GLU:HG2	1.88	0.55
2:M:309:TYR:HE2	2:M:321:GLU:HB3	1.72	0.55
2:M:193:LEU:H	2:M:193:LEU:CD1	2.18	0.55
1:A:83:LYS:NZ	2:C:698:ASP:OD2	2.27	0.55
3:D:1128:VAL:HB	3:D:1133:ARG:HH22	1.72	0.55
2:H:769:PRO:HG2	3:I:36:THR:HA	1.88	0.55
2:H:771:GLU:O	2:H:775:ARG:HG2	2.07	0.55
1:G:41:ARG:NH1	1:G:177:VAL:O	2.36	0.55
1:F:45:LEU:HD11	1:F:177:VAL:HG21	1.89	0.55
3:D:1189:ARG:HB3	3:D:1204:CYS:HA	1.88	0.55
3:D:130:SER:HG	3:D:132:TYR:HD1	1.54	0.55
2:C:11:GLU:HG2	2:C:537:LYS:HZ1	1.71	0.55
2:H:708:TYR:HE1	2:H:827:VAL:HB	1.72	0.55
3:I:473:LEU:O	3:I:477:LEU:HG	2.06	0.55
2:C:672:VAL:HG21	2:C:869:VAL:HG11	1.87	0.55
2:H:507:ARG:HG3	2:H:508:ILE:N	2.21	0.55
3:I:1330:ILE:HD12	3:I:1347:TYR:CE1	2.42	0.55
2:H:338:GLU:C	2:H:341:THR:HG22	2.27	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:1211:MET:SD	3:I:1213:ARG:HG2	2.47	0.55
2:M:224:GLU:HB3	2:M:228:ALA:H	1.71	0.55
3:D:17:LYS:O	3:D:20:SER:HB3	2.07	0.55
3:N:107:ASP:O	3:N:108:VAL:C	2.44	0.55
3:D:798:GLU:HG2	3:D:799:LYS:H	1.71	0.55
2:C:897:LEU:HB3	2:C:899:GLN:NE2	2.19	0.55
2:M:182:VAL:O	2:M:193:LEU:CD1	2.55	0.55
2:H:642:ARG:CG	2:H:657:ASP:OD2	2.55	0.55
1:G:59:GLU:HG3	1:G:139:ASN:ND2	2.20	0.55
2:M:1052:MET:HG3	3:N:623:VAL:HG22	1.89	0.55
3:N:1281:VAL:HG12	3:N:1282:ARG:N	2.22	0.55
2:M:496:ILE:HG13	2:M:531:PHE:HB2	1.89	0.55
3:D:553:ARG:HD2	3:D:570:GLU:OE1	2.07	0.55
7:X:102:VAL:CG1	7:X:103:GLN:N	2.69	0.55
2:C:292:ARG:HD2	2:C:299:LYS:CD	2.37	0.55
2:M:610:ARG:HG3	2:M:610:ARG:NH1	2.22	0.55
2:C:339:LEU:O	2:C:342:ASP:HB3	2.07	0.55
7:X:19:LEU:HD22	7:X:69:LEU:HD12	1.89	0.55
1:K:132:LEU:HD23	1:K:136:GLY:O	2.07	0.55
3:I:800:LYS:CE	3:I:824:ASN:O	2.55	0.54
3:N:1362:LYS:CD	7:Z:34:GLN:HE22	2.20	0.54
1:F:150:TYR:CE2	1:F:152:PRO:HG3	2.42	0.54
3:N:1462:LEU:O	3:N:1466:VAL:HG23	2.07	0.54
3:N:87:ARG:HB2	3:N:524:LEU:HD12	1.89	0.54
3:I:996:TRP:HA	3:I:999:THR:HG22	1.90	0.54
3:N:850:LEU:O	3:N:853:VAL:HB	2.07	0.54
2:H:1024:LYS:CG	2:H:1025:ALA:N	2.61	0.54
2:C:182:VAL:O	2:C:193:LEU:HD13	2.06	0.54
3:D:486:ARG:HA	3:D:489:ARG:CG	2.36	0.54
3:D:902:LEU:H	3:D:902:LEU:CD2	2.13	0.54
2:H:457:ALA:HB3	2:H:538:GLN:HA	1.89	0.54
1:B:41:ARG:HH11	1:B:177:VAL:HG23	1.70	0.54
3:N:367:ILE:HB	3:N:377:VAL:CG1	2.33	0.54
3:D:1408:ILE:HD12	3:D:1408:ILE:N	2.19	0.54
3:I:116:LEU:HD22	3:I:118:LEU:CG	2.37	0.54
2:M:86:LYS:O	2:M:87:ASP:HB2	2.07	0.54
7:Z:6:LYS:HZ1	7:Z:85:LEU:HG	1.71	0.54
3:D:1194:CYS:HB3	3:D:1373:ARG:HH12	1.71	0.54
3:N:1487:VAL:HG12	3:N:1488:ASP:N	2.23	0.54
2:H:998:TYR:O	2:H:998:TYR:CG	2.59	0.54
2:M:1112:PHE:HD2	2:M:1112:PHE:C	2.11	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:70:GLY:N	2:H:607:ASP:OD1	2.36	0.54
3:N:182:GLY:H	3:N:357:GLU:HG2	1.72	0.54
2:H:1082:PRO:C	2:H:1084:SER:N	2.60	0.54
3:N:1434:TRP:NE1	3:N:1435:LEU:CD1	2.70	0.54
2:M:1097:LEU:CD1	3:N:1451:ALA:CB	2.76	0.54
4:E:32:ARG:HB2	4:E:32:ARG:NH1	2.22	0.54
3:I:141:ILE:HG13	3:I:448:GLU:CD	2.27	0.54
3:N:1047:LYS:HB3	3:N:1048:PRO:HD2	1.90	0.54
3:I:1109:GLU:CG	3:I:1202:GLN:H	2.20	0.54
3:N:1310:ARG:HB2	3:N:1327:ARG:HD2	1.87	0.54
2:M:1019:GLN:HG3	3:N:621:LYS:HD2	1.90	0.54
2:H:589:ARG:HH21	2:H:596:TYR:HE2	1.53	0.54
3:N:639:LEU:HD22	3:N:766:ALA:HA	1.88	0.54
3:D:658:LEU:O	3:D:661:MET:HB2	2.07	0.54
2:C:395:LYS:HE2	2:C:403:SER:HB2	1.89	0.54
2:M:575:GLN:O	2:M:667:ALA:HB1	2.07	0.54
2:M:668:LEU:CD1	2:M:668:LEU:N	2.69	0.54
1:G:48:ILE:HD12	1:G:174:VAL:HG21	1.87	0.54
2:C:876:VAL:O	2:C:879:ARG:O	2.26	0.54
2:H:34:VAL:HB	2:H:38:LYS:HG3	1.88	0.54
1:A:97:VAL:HG12	1:A:99:LEU:HD12	1.90	0.54
3:N:176:ASP:OD2	3:N:177:ALA:N	2.40	0.54
1:G:190:THR:HG22	1:G:190:THR:O	2.06	0.54
2:C:516:ARG:NE	3:D:1068:LEU:HD13	2.22	0.54
3:D:1101:VAL:HG11	3:D:1424:VAL:O	2.08	0.54
3:N:152:LEU:HD12	3:N:152:LEU:C	2.27	0.54
3:N:1415:VAL:O	3:N:1417:TRP:HE3	1.90	0.54
3:I:1278:ASP:HB3	3:I:1321:ALA:N	2.22	0.54
2:C:304:LEU:HG	2:C:305:PRO:CD	2.35	0.54
2:C:205:GLU:HB3	2:C:209:ARG:NH1	2.22	0.54
1:A:168:ASP:OD1	2:C:832:LYS:NZ	2.40	0.54
3:D:1273:VAL:O	3:D:1325:LEU:HB2	2.08	0.54
3:D:956:ILE:HG13	3:D:1039:CYS:O	2.07	0.54
1:B:206:THR:HG22	1:B:209:GLU:OE1	2.07	0.54
3:I:147:VAL:HG23	3:I:162:ARG:HH22	1.72	0.54
2:H:1074:GLU:HG2	2:H:1075:ASP:N	2.15	0.54
3:D:980:MET:CB	3:D:982:PHE:CE2	2.90	0.54
2:C:89:THR:CA	2:C:129:ILE:O	2.52	0.54
7:Z:54:GLU:O	7:Z:58:ILE:HD13	2.07	0.54
1:A:62:LEU:CD1	1:A:62:LEU:H	2.17	0.54
2:C:761:PHE:HE2	2:C:764:GLU:O	1.91	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:62:LEU:CD1	1:B:62:LEU:H	2.15	0.54
1:K:99:LEU:HB2	1:K:142:VAL:CG2	2.37	0.54
2:H:1014:SER:HB3	2:H:1017:THR:O	2.06	0.54
1:G:190:THR:HB	3:I:722:GLU:OE1	2.07	0.54
4:O:69:LEU:O	4:O:69:LEU:HD23	2.07	0.54
2:M:544:THR:C	2:M:546:LEU:H	2.10	0.54
2:M:36:PRO:HG2	2:M:70:GLU:HG2	1.88	0.54
2:C:606:VAL:HG21	2:C:645:VAL:N	2.22	0.54
3:I:695:ILE:HD12	3:I:698:LYS:HB2	1.89	0.54
2:C:1097:LEU:CD1	3:D:1451:ALA:CB	2.85	0.54
3:I:829:VAL:O	3:I:835:SER:HB3	2.08	0.54
3:D:520:LEU:HD12	3:D:521:PRO:HD2	1.88	0.54
2:C:437:ARG:HH22	2:C:488:ALA:HA	1.72	0.54
2:M:1034:GLU:HA	2:M:1037:VAL:CG2	2.37	0.54
2:H:872:ASN:HD21	2:H:874:LEU:HB2	1.73	0.54
2:C:110:GLU:HB2	2:C:369:PRO:HD3	1.89	0.54
3:I:996:TRP:HA	3:I:999:THR:CG2	2.37	0.54
2:C:946:ARG:O	2:C:950:LEU:HB2	2.07	0.54
3:I:563:PRO:HB2	3:I:566:ILE:HD13	1.90	0.54
2:M:207:LEU:HD22	2:M:221:LEU:CD1	2.37	0.54
2:H:115:LEU:HD22	2:H:373:VAL:HG13	1.88	0.54
3:I:1273:VAL:O	3:I:1273:VAL:HG23	2.07	0.54
3:I:984:THR:HG23	3:I:987:GLU:H	1.71	0.54
3:D:793:THR:HG21	3:D:906:GLN:HG2	1.88	0.54
7:X:57:ARG:NH2	7:X:61:ARG:HD2	2.23	0.54
3:I:729:HIS:HD1	3:I:731:LEU:N	2.05	0.54
3:N:1114:THR:O	3:N:1114:THR:CG2	2.56	0.54
1:F:128:HIS:CE1	1:F:131:THR:HG23	2.42	0.54
2:M:12:VAL:HG22	2:M:13:ILE:HG23	1.89	0.54
2:M:498:GLN:NE2	2:M:498:GLN:HA	2.22	0.54
3:D:1256:LEU:HG	3:D:1260:ILE:HD11	1.88	0.54
3:N:63:TYR:HB3	3:N:68:PHE:CE1	2.42	0.54
2:H:199:VAL:CG2	2:H:238:LEU:HD12	2.32	0.54
3:D:119:SER:HB2	3:D:123:LEU:N	2.22	0.54
2:C:1090:LYS:HZ3	2:C:1112:PHE:HE1	1.54	0.54
3:I:827:ILE:C	3:I:828:LYS:HG3	2.27	0.54
3:N:1482:ARG:HH21	3:N:1483:PHE:HZ	1.54	0.54
2:H:684:PHE:CG	2:H:685:GLU:N	2.74	0.54
3:D:842:VAL:HA	3:D:865:THR:OG1	2.07	0.54
2:M:110:GLU:HB2	2:M:368:THR:CG2	2.37	0.54
1:G:56:VAL:CG1	1:G:57:TYR:H	2.20	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:949:ILE:N	3:N:949:ILE:HD12	2.21	0.54
3:N:1326:THR:CG2	3:N:1327:ARG:H	2.17	0.54
1:A:56:VAL:HG12	1:A:57:TYR:H	1.72	0.54
2:C:1103:ASP:CG	3:D:2:LYS:HG3	2.28	0.54
3:N:1071:PHE:O	3:N:1074:SER:HB3	2.08	0.54
1:G:89:PHE:HD1	1:G:120:VAL:HG13	1.71	0.54
3:D:1137:ARG:HH11	3:D:1137:ARG:HG3	1.72	0.54
1:A:12:THR:OG1	1:A:24:VAL:HB	2.07	0.54
1:L:101:LEU:HD12	1:L:113:ASP:C	2.27	0.54
4:O:59:ASN:HD22	4:O:60:ALA:N	2.04	0.54
2:M:931:GLY:C	2:M:933:GLY:N	2.60	0.54
2:C:771:GLU:HG2	2:C:771:GLU:O	2.05	0.54
1:K:26:GLU:HB2	1:K:27:PRO:HA	1.89	0.54
7:Y:59:GLU:O	7:Y:62:ILE:HB	2.07	0.54
2:H:250:ARG:C	2:H:252:LYS:H	2.04	0.54
2:H:305:PRO:HA	2:H:308:ARG:HB2	1.89	0.54
3:D:1101:VAL:CG1	3:D:1424:VAL:O	2.55	0.54
2:C:249:LYS:HD2	2:C:250:ARG:N	2.22	0.54
1:G:38:ASN:HB3	1:G:39:PRO:HD3	1.89	0.54
2:C:408:ARG:NH1	2:C:542:VAL:HG21	2.22	0.54
3:N:158:TYR:CE1	3:N:452:ILE:HD11	2.38	0.54
2:C:281:LEU:O	2:C:282:GLY:O	2.24	0.54
3:D:397:LYS:HG2	3:D:397:LYS:O	2.08	0.54
3:I:603:LEU:O	3:I:606:ILE:CG2	2.56	0.54
3:D:799:LYS:O	3:D:826:PRO:HG2	2.08	0.54
3:D:352:ASN:C	3:D:368:VAL:HG13	2.27	0.54
4:E:59:ASN:CB	4:E:62:THR:OG1	2.55	0.54
3:D:107:ASP:O	3:D:108:VAL:C	2.45	0.54
3:I:628:ARG:HH11	3:I:628:ARG:HG3	1.72	0.54
3:I:1109:GLU:HG2	3:I:1202:GLN:N	2.21	0.54
3:I:984:THR:CG2	3:I:987:GLU:H	2.20	0.54
2:C:855:VAL:HG13	2:C:856:GLU:N	2.23	0.54
3:I:1197:ARG:HB3	3:I:1396:GLU:HG2	1.89	0.54
2:M:274:ARG:CG	2:M:285:LEU:HD13	2.38	0.54
3:I:670:VAL:HG13	3:I:671:LYS:HG3	1.90	0.54
2:M:428:ARG:CG	2:M:451:LEU:HD21	2.37	0.54
2:M:462:ASP:CB	2:M:468:ARG:HH11	2.19	0.54
1:L:206:THR:HG22	1:L:209:GLU:CG	2.38	0.54
2:M:524:VAL:CG1	2:M:525:SER:N	2.71	0.54
1:G:89:PHE:CD1	1:G:120:VAL:HG13	2.42	0.54
1:B:141:GLU:OE2	1:B:161:ARG:HD3	2.06	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:Z:14:ARG:HB3	7:Z:14:ARG:HH11	1.73	0.54
1:B:146:ARG:HG3	1:B:146:ARG:O	2.07	0.54
1:L:65:PHE:CD1	1:L:65:PHE:N	2.75	0.54
2:C:384:GLU:O	2:C:388:ARG:HB2	2.08	0.54
2:H:953:VAL:O	2:H:955:PRO:HD3	2.08	0.54
2:H:183:SER:OG	2:H:190:LYS:HD3	2.07	0.54
2:H:300:ASP:C	2:H:302:VAL:N	2.61	0.54
3:D:1029:ARG:NH1	3:D:1029:ARG:HG2	2.23	0.54
3:D:1225:ALA:O	3:D:1229:ILE:HG13	2.07	0.54
3:D:1331:ASP:OD2	3:D:1332:PRO:HD2	2.08	0.54
3:D:1372:VAL:HA	3:D:1375:MET:HE2	1.88	0.54
3:I:795:VAL:HG12	3:I:796:ARG:N	2.22	0.54
1:K:101:LEU:HD22	1:K:140:MET:HE1	1.90	0.54
2:M:66:LEU:HD13	2:M:100:LEU:HB2	1.89	0.54
1:G:76:VAL:HB	3:I:872:ARG:NH1	2.23	0.54
2:C:111:ASP:O	2:C:112:GLU:CG	2.56	0.54
2:H:612:VAL:HG22	2:H:622:GLU:HG3	1.88	0.54
2:M:147:TYR:O	2:M:148:PHE:CD2	2.60	0.54
2:C:204:GLN:CD	2:C:228:ALA:HB1	2.28	0.54
2:M:943:VAL:HG23	2:M:985:GLY:H	1.72	0.54
3:D:1114:THR:HG22	3:D:1195:GLN:HB3	1.90	0.54
3:I:637:LEU:HD11	3:I:642:CYS:N	2.23	0.54
3:I:658:LEU:HA	3:I:661:MET:HG3	1.89	0.54
3:N:1326:THR:CG2	3:N:1327:ARG:N	2.69	0.54
2:M:1104:GLU:HG2	3:N:3:LYS:H	1.72	0.54
3:N:639:LEU:N	3:N:729:HIS:ND1	2.56	0.54
3:I:15:PRO:HA	3:I:18:ILE:CD1	2.36	0.54
2:C:404:LEU:HA	2:C:407:LYS:HD3	1.90	0.54
1:F:168:ASP:OD1	2:H:832:LYS:NZ	2.41	0.54
7:Z:7:LEU:O	7:Z:74:ILE:HG23	2.07	0.54
3:D:628:ARG:HG3	3:D:628:ARG:NH1	2.22	0.54
2:C:707:ARG:HG3	2:C:826:TYR:CE1	2.43	0.54
3:D:949:ILE:HD11	3:D:1023:MET:HE2	1.88	0.54
3:N:387:LEU:CD1	3:N:387:LEU:H	2.11	0.54
4:O:41:GLU:HG2	4:O:42:PRO:N	2.20	0.54
3:D:1119:SER:HA	3:D:1186:VAL:O	2.08	0.54
3:D:820:GLU:HG3	3:D:836:VAL:HG21	1.90	0.54
3:D:185:VAL:HG21	3:D:203:ALA:CB	2.38	0.54
2:M:22:GLN:HB3	2:M:121:MET:CE	2.38	0.54
2:C:174:LEU:HD21	2:C:184:MET:HG3	1.90	0.54
2:M:704:HIS:HB2	2:M:831:ARG:HE	1.72	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:724:ARG:HD2	2:H:738:ASP:O	2.07	0.54
3:D:553:ARG:O	3:D:557:LEU:HG	2.08	0.54
1:K:67:THR:HG22	2:M:627:ARG:CZ	2.37	0.54
2:M:1104:GLU:CG	3:N:3:LYS:HB2	2.37	0.54
1:F:101:LEU:HD12	1:F:114:PHE:N	2.23	0.54
2:H:447:ALA:HA	3:I:1085:ALA:HB1	1.90	0.54
1:K:216:GLU:O	1:K:220:GLU:HG3	2.07	0.54
3:I:116:LEU:O	3:I:117:ASP:HB3	2.07	0.54
3:N:633:VAL:HB	3:N:740:PHE:CE1	2.43	0.54
1:B:179:PHE:N	1:B:179:PHE:HD2	2.05	0.54
2:M:900:ARG:HH11	2:M:900:ARG:HG3	1.73	0.54
1:F:133:GLU:OE2	2:H:605:LYS:HB3	2.08	0.54
2:C:987:ILE:HD11	3:D:946:GLY:CA	2.38	0.54
2:C:850:ALA:HA	3:D:632:VAL:HG11	1.90	0.54
2:C:239:PHE:HZ	2:C:252:LYS:CA	2.14	0.54
2:H:676:ILE:HD13	2:H:871:LEU:HB2	1.90	0.54
2:H:987:ILE:HD12	3:I:948:THR:HG23	1.89	0.54
4:O:41:GLU:N	4:O:42:PRO:HD3	2.23	0.54
2:H:680:ASP:O	3:I:939:PHE:HB3	2.07	0.54
2:M:369:PRO:CG	2:M:370:ALA:N	2.64	0.54
3:I:1263:PHE:O	3:I:1424:VAL:HG12	2.08	0.54
2:M:140:ILE:HG23	2:M:410:ILE:HG21	1.90	0.54
2:H:455:LEU:HD12	2:H:455:LEU:C	2.28	0.54
2:H:263:ASP:HB2	2:H:264:PRO:CD	2.37	0.54
7:Y:112:VAL:HG13	7:Y:117:MET:HE2	1.89	0.54
3:N:1377:LYS:HE2	3:N:1378:TYR:OH	2.07	0.54
3:D:658:LEU:HA	3:D:661:MET:HG3	1.90	0.54
2:C:762:LYS:O	2:C:764:GLU:N	2.41	0.54
2:C:762:LYS:HG3	2:C:763:GLY:H	1.72	0.54
3:D:62:LYS:HE2	3:D:62:LYS:HA	1.89	0.54
2:M:91:GLN:NE2	2:M:117:HIS:HB3	2.23	0.54
2:H:769:PRO:HG2	3:I:37:LEU:H	1.72	0.54
1:G:106:PRO:HG2	1:G:134:GLU:OE1	2.08	0.54
3:I:415:VAL:HG12	3:I:416:ALA:N	2.22	0.54
1:L:83:LYS:HE2	1:L:168:ASP:HB2	1.90	0.54
2:C:501:THR:HG22	2:C:513:VAL:HG13	1.90	0.54
4:E:69:LEU:O	4:E:69:LEU:HD23	2.08	0.54
3:N:1277:ILE:HD12	3:N:1277:ILE:N	2.23	0.54
2:H:267:TYR:CG	2:H:272:ALA:CB	2.91	0.54
2:H:304:LEU:CG	2:H:305:PRO:HD3	2.37	0.54
1:K:20:TYR:HD2	1:K:21:GLY:H	1.56	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:481:MET:HE2	3:N:493:ARG:CA	2.33	0.54
3:D:384:VAL:HG12	3:D:385:VAL:N	2.23	0.54
3:I:1101:VAL:CG2	3:I:1424:VAL:HG23	2.38	0.54
3:N:996:TRP:O	3:N:999:THR:HG22	2.07	0.54
2:M:337:GLY:O	2:M:341:THR:HG22	2.08	0.54
2:H:404:LEU:O	2:H:407:LYS:HB2	2.07	0.54
3:D:1326:THR:CG2	3:D:1327:ARG:N	2.71	0.54
2:H:259:GLY:O	2:H:291:ALA:CA	2.54	0.54
3:D:57:GLU:HG3	3:D:64:LYS:HD2	1.89	0.54
3:N:970:LYS:HE3	3:N:973:GLN:NE2	2.23	0.54
2:H:352:ALA:HA	2:H:355:VAL:HG11	1.89	0.54
3:N:695:ILE:O	3:N:696:HIS:C	2.46	0.54
2:M:501:THR:HG22	2:M:513:VAL:HG13	1.90	0.54
2:H:897:LEU:HD21	2:H:921:ALA:HA	1.90	0.54
1:L:73:GLU:OE1	1:L:128:HIS:HE1	1.91	0.54
3:N:1112:CYS:CB	3:N:1195:GLN:HG2	2.38	0.54
2:C:1043:TYR:CE2	3:D:710:ARG:HD2	2.42	0.54
2:M:6:PHE:CZ	2:M:901:TYR:HD2	2.24	0.54
2:H:598:GLU:N	2:H:615:TYR:OH	2.41	0.54
2:C:537:LYS:HG3	2:C:545:ASN:OD1	2.08	0.54
1:G:179:PHE:CD2	1:G:179:PHE:N	2.75	0.54
7:Z:6:LYS:HG2	7:Z:75:LEU:HD11	1.90	0.54
3:D:1281:VAL:HG21	3:D:1313:VAL:HG21	1.90	0.54
2:M:1005:MET:HE1	3:N:648:MET:HG3	1.90	0.54
2:M:9:ILE:HG13	2:M:9:ILE:O	2.08	0.54
3:D:1126:ASP:C	3:D:1126:ASP:OD1	2.46	0.54
4:J:26:ARG:O	4:J:30:LEU:HD13	2.08	0.53
1:K:91:ASN:ND2	1:K:93:SER:HB2	2.24	0.53
3:I:804:LEU:CD2	3:I:829:VAL:HB	2.37	0.53
3:N:1225:ALA:HB2	3:N:1370:ILE:HD12	1.90	0.53
2:M:861:LEU:HD22	2:M:863:ASP:OD1	2.08	0.53
3:D:116:LEU:O	3:D:117:ASP:HB3	2.07	0.53
2:M:496:ILE:O	2:M:515:ALA:HB1	2.09	0.53
2:M:515:ALA:O	2:M:516:ARG:HD3	2.08	0.53
2:H:224:GLU:HB2	2:H:228:ALA:HB2	1.89	0.53
2:H:496:ILE:HG13	2:H:531:PHE:CB	2.38	0.53
2:H:906:PHE:CZ	3:I:1067:VAL:HA	2.43	0.53
3:N:1109:GLU:CG	3:N:1202:GLN:H	2.20	0.53
3:N:637:LEU:HD21	3:N:642:CYS:HA	1.89	0.53
1:F:26:GLU:HG2	1:F:27:PRO:CG	2.38	0.53
2:H:893:ALA:HB1	2:H:897:LEU:HD12	1.88	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:697:ARG:HD2	2:H:699:PHE:CD1	2.43	0.53
2:H:666:LEU:HD12	2:H:667:ALA:H	1.72	0.53
2:M:283:ILE:CG2	2:M:284:ARG:N	2.71	0.53
3:N:507:ASN:H	3:N:507:ASN:ND2	2.06	0.53
1:F:211:LEU:HD12	1:F:215:VAL:HG23	1.90	0.53
2:M:159:ILE:HD12	2:M:159:ILE:O	2.09	0.53
2:M:806:LEU:HD12	2:M:822:VAL:CG2	2.37	0.53
3:I:93:ILE:HG22	3:I:551:ASN:ND2	2.24	0.53
3:D:1136:LYS:HB2	3:D:1139:ASP:OD2	2.08	0.53
2:H:278:GLU:OE2	2:H:283:ILE:O	2.25	0.53
2:H:281:LEU:O	2:H:282:GLY:C	2.45	0.53
2:H:274:ARG:HG3	2:H:285:LEU:CB	2.33	0.53
2:C:872:ASN:ND2	2:C:874:LEU:HB2	2.22	0.53
3:D:1109:GLU:CG	3:D:1201:CYS:HB2	2.38	0.53
2:H:101:ILE:CG2	2:H:107:LEU:HD22	2.14	0.53
2:C:259:GLY:O	2:C:291:ALA:CA	2.56	0.53
2:C:281:LEU:O	2:C:282:GLY:C	2.46	0.53
3:D:1144:LEU:HD21	3:D:1186:VAL:CG1	2.36	0.53
3:I:603:LEU:CA	3:I:606:ILE:HG22	2.37	0.53
3:I:813:LEU:CD1	3:I:814:ALA:N	2.64	0.53
3:I:1110:ALA:O	3:I:1111:ASP:C	2.46	0.53
3:I:1024:ALA:HA	3:I:1029:ARG:O	2.07	0.53
1:A:124:ASN:HD21	1:A:127:LEU:HD22	1.73	0.53
2:H:158:TYR:N	2:H:158:TYR:CD1	2.77	0.53
7:X:127:LYS:C	7:X:127:LYS:HD3	2.28	0.53
3:N:689:ASP:O	3:N:693:GLU:HB2	2.09	0.53
2:M:724:ARG:HG2	2:M:724:ARG:O	2.08	0.53
2:M:742:VAL:HG12	2:M:743:VAL:N	2.23	0.53
3:N:1197:ARG:HA	3:N:1396:GLU:HG3	1.90	0.53
3:I:687:VAL:O	3:I:690:ALA:HB3	2.09	0.53
4:O:89:MET:O	4:O:93:TYR:HD1	1.91	0.53
2:M:142:ARG:NE	2:M:325:ILE:HD12	2.22	0.53
2:M:177:GLU:OE1	2:M:179:ASN:CB	2.56	0.53
1:A:26:GLU:HB2	1:A:27:PRO:HA	1.88	0.53
2:C:593:ALA:HB1	2:C:659:PRO:HD2	1.90	0.53
1:K:151:VAL:HG23	1:K:169:ALA:HB3	1.90	0.53
2:H:206:THR:CG2	2:H:207:LEU:N	2.72	0.53
2:C:300:ASP:O	2:C:302:VAL:N	2.42	0.53
3:D:814:ALA:HB1	3:D:818:ARG:NH2	2.17	0.53
3:D:139:GLY:HA3	3:D:162:ARG:CZ	2.37	0.53
2:C:848:VAL:HG12	2:C:849:VAL:N	2.23	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:58:ILE:HD13	1:G:140:MET:HB2	1.91	0.53
2:M:863:ASP:OD1	2:M:865:THR:CG2	2.56	0.53
3:I:1034:GLN:O	3:I:1037:GLN:N	2.40	0.53
2:H:12:VAL:HG13	2:H:13:ILE:N	2.23	0.53
2:H:12:VAL:HG13	2:H:13:ILE:H	1.74	0.53
2:H:1097:LEU:CD1	3:I:1451:ALA:HB2	2.37	0.53
2:M:873:PRO:HB3	3:N:949:ILE:HD12	1.91	0.53
3:I:1434:TRP:CE3	3:I:1457:ASP:HB2	2.43	0.53
3:I:456:MET:HE3	3:I:568:ARG:HD3	1.89	0.53
3:I:143:ASN:CB	3:I:161:LEU:HD21	2.38	0.53
3:I:699:VAL:HA	3:I:718:PRO:HD3	1.90	0.53
1:A:89:PHE:C	1:A:90:LEU:HD12	2.29	0.53
2:H:523:ILE:HD13	2:H:524:VAL:N	2.23	0.53
2:C:759:THR:HB	2:C:785:VAL:CG2	2.37	0.53
2:M:737:LEU:HD21	2:M:741:GLY:H	1.72	0.53
2:M:442:GLU:HG2	2:M:454:SER:OG	2.09	0.53
1:L:133:GLU:CG	1:L:134:GLU:H	2.21	0.53
1:B:56:VAL:CG1	1:B:57:TYR:N	2.71	0.53
2:C:545:ASN:HB3	2:C:583:LEU:CD2	2.38	0.53
1:B:170:VAL:HG23	1:B:170:VAL:O	2.08	0.53
3:D:628:ARG:HG3	3:D:628:ARG:HH11	1.73	0.53
1:L:10:VAL:HG12	1:L:12:THR:HG23	1.88	0.53
3:I:198:ARG:HH11	3:I:198:ARG:HG3	1.73	0.53
3:N:1440:PHE:N	3:N:1440:PHE:CD1	2.75	0.53
3:I:150:ARG:HH11	3:I:150:ARG:HB3	1.73	0.53
2:H:199:VAL:HG22	2:H:235:LEU:HA	1.91	0.53
2:H:199:VAL:CG2	2:H:235:LEU:HD23	2.35	0.53
2:H:461:VAL:CG1	2:H:465:GLY:HA2	2.38	0.53
3:N:356:PRO:HG2	3:N:442:ASN:ND2	2.23	0.53
3:D:1462:LEU:HD23	3:D:1473:PRO:HD2	1.90	0.53
3:N:133:ILE:HG22	3:N:134:VAL:H	1.72	0.53
2:H:544:THR:O	2:H:546:LEU:N	2.42	0.53
3:D:789:LEU:O	3:D:792:ILE:HG23	2.08	0.53
2:C:897:LEU:HD22	2:C:920:GLN:HG2	1.91	0.53
1:B:124:ASN:N	1:B:125:PRO:HD3	2.23	0.53
2:M:194:VAL:O	2:M:197:LEU:HB2	2.09	0.53
2:C:238:LEU:O	2:C:241:LEU:CB	2.56	0.53
4:J:32:ARG:HH11	4:J:32:ARG:CB	2.20	0.53
3:N:669:ASN:ND2	3:N:672:ALA:H	2.06	0.53
2:M:786:LYS:CG	2:M:787:ASP:N	2.71	0.53
3:N:516:ALA:O	3:N:518:PRO:HD3	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:73:GLU:OE1	1:A:130:ALA:HA	2.08	0.53
2:M:339:LEU:HD11	2:M:391:LEU:CD1	2.39	0.53
2:H:575:GLN:O	2:H:667:ALA:HB1	2.08	0.53
3:D:1281:VAL:HG12	3:D:1282:ARG:N	2.24	0.53
5:P:23:DC:H2''	5:P:24:DG:H5'	1.91	0.53
3:N:615:ARG:HG3	3:N:619:LEU:HD13	1.90	0.53
3:I:426:LYS:HE3	3:I:427:VAL:HG23	1.90	0.53
3:I:421:LEU:HB2	3:I:427:VAL:HG12	1.90	0.53
1:K:226:SER:O	1:K:228:PRO:HD3	2.09	0.53
3:D:1369:GLU:O	3:D:1372:VAL:HG12	2.07	0.53
1:F:46:SER:CB	2:H:856:GLU:CD	2.75	0.53
3:N:984:THR:CG2	3:N:987:GLU:CG	2.69	0.53
2:C:281:LEU:HD11	2:C:306:THR:CG2	2.38	0.53
3:D:820:GLU:HG2	3:D:825:ALA:O	2.09	0.53
2:C:101:ILE:HD12	2:C:107:LEU:HD13	1.89	0.53
2:M:281:LEU:HD12	2:M:309:TYR:HB2	1.90	0.53
3:N:1018:ASN:OD1	3:N:1020:LEU:HB3	2.08	0.53
4:E:47:LYS:CA	4:E:54:LEU:HB3	2.35	0.53
3:D:12:LEU:HD21	3:D:104:PHE:CE1	2.44	0.53
3:D:112:ILE:C	3:D:112:ILE:HD13	2.29	0.53
3:I:1459:LEU:CD2	3:I:1468:LEU:HD13	2.35	0.53
2:H:579:VAL:HG11	2:H:887:GLU:HG3	1.90	0.53
2:H:636:ALA:HB2	2:H:703:ILE:HB	1.91	0.53
3:D:437:VAL:HA	3:D:444:VAL:HG22	1.90	0.53
3:N:1065:LEU:HD23	3:N:1070:TYR:CD2	2.43	0.53
3:I:583:ASP:OD2	3:I:604:THR:HG21	2.08	0.53
2:C:564:MET:HE1	2:C:997:LEU:HG	1.89	0.53
2:C:840:ALA:HB2	2:C:846:LYS:HG3	1.91	0.53
3:D:1041:LEU:CD1	3:D:1058:ARG:HA	2.39	0.53
3:N:358:GLY:CA	3:N:385:VAL:HB	2.38	0.53
1:B:38:ASN:O	1:B:42:ARG:HG3	2.09	0.53
2:C:267:TYR:N	2:C:267:TYR:HD2	2.05	0.53
3:N:127:LEU:O	3:N:457:GLY:HA2	2.09	0.53
2:C:278:GLU:OE2	2:C:283:ILE:O	2.26	0.53
3:N:1105:ILE:CD1	3:N:1105:ILE:N	2.71	0.53
3:N:1221:VAL:CG1	3:N:1370:ILE:HD13	2.38	0.53
1:G:56:VAL:HB	1:G:165:ILE:CD1	2.37	0.53
2:C:100:LEU:HD22	2:C:372:LEU:HD21	1.90	0.53
3:D:922:LEU:N	3:D:922:LEU:HD23	2.23	0.53
2:H:1092:LEU:HD21	3:I:1447:LEU:HD23	1.91	0.53
3:I:1465:ASN:ND2	3:I:1468:LEU:HD12	2.23	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:1369:GLU:CA	3:I:1372:VAL:HG12	2.37	0.53
3:I:1372:VAL:O	3:I:1375:MET:HB2	2.08	0.53
2:H:351:LEU:HD12	2:H:351:LEU:O	2.09	0.53
3:N:1283:ILE:CD1	3:N:1292:VAL:HG13	2.38	0.53
3:I:982:PHE:CD2	3:I:983:LEU:N	2.76	0.53
1:A:62:LEU:CD1	1:A:62:LEU:N	2.67	0.53
2:C:218:VAL:CG2	2:C:311:PHE:HE1	2.21	0.53
2:M:352:ALA:O	2:M:355:VAL:HG12	2.08	0.53
1:L:94:LEU:HD22	1:L:97:VAL:CG2	2.37	0.53
4:O:26:ARG:NH2	4:O:37:ASN:O	2.42	0.53
2:H:172:ILE:N	2:H:172:ILE:HD12	2.24	0.53
1:B:163:ASN:N	1:B:163:ASN:OD1	2.41	0.53
2:H:94:LEU:HD12	2:H:95:TYR:N	2.23	0.53
3:D:1194:CYS:SG	3:D:1200:VAL:HA	2.49	0.53
1:L:24:VAL:HG22	1:L:196:THR:HG22	1.90	0.53
3:N:1171:VAL:O	3:N:1175:ILE:HG13	2.08	0.53
3:N:421:LEU:HD22	3:N:444:VAL:HG11	1.90	0.53
2:C:672:VAL:HG21	2:C:869:VAL:CG1	2.38	0.53
2:M:1112:PHE:C	2:M:1112:PHE:CD2	2.82	0.53
1:L:197:LEU:HD23	1:L:197:LEU:O	2.09	0.53
2:C:838:LYS:NZ	2:C:846:LYS:NZ	2.57	0.53
3:D:1209:LEU:O	3:D:1210:SER:C	2.45	0.53
3:D:1371:VAL:HG12	3:D:1375:MET:CE	2.39	0.53
2:H:683:ASN:HB2	2:H:872:ASN:HB2	1.91	0.53
3:I:520:LEU:O	3:I:525:ARG:NH1	2.41	0.53
2:C:100:LEU:HD22	2:C:372:LEU:CD2	2.39	0.53
2:M:200:LEU:HD11	2:M:202:TYR:HD2	1.73	0.53
2:C:692:GLU:HG2	2:C:696:LYS:HE3	1.90	0.53
2:H:408:ARG:NH2	2:H:455:LEU:HD11	2.20	0.53
3:N:1286:THR:O	3:N:1287:GLU:CB	2.56	0.53
2:H:260:LEU:HA	2:H:291:ALA:HB1	1.88	0.53
2:M:915:LYS:HE2	2:M:968:LEU:O	2.08	0.53
3:I:657:LEU:O	3:I:661:MET:HG2	2.09	0.53
2:M:786:LYS:HG2	2:M:787:ASP:N	2.23	0.53
2:M:274:ARG:O	2:M:277:ALA:HB3	2.08	0.53
3:D:115:LEU:C	3:D:115:LEU:CD2	2.73	0.53
1:F:58:ILE:CD1	1:F:58:ILE:N	2.72	0.53
2:M:557:ARG:NH1	2:M:560:MET:HG3	2.24	0.53
2:M:838:LYS:HD3	2:M:846:LYS:HZ3	1.74	0.53
3:D:999:THR:CG2	3:D:1000:THR:N	2.71	0.53
2:H:625:LEU:HB3	2:H:639:GLN:HB2	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:116:LEU:HD22	3:I:118:LEU:CD1	2.39	0.53
1:L:19:GLU:O	1:L:200:TRP:HA	2.09	0.53
2:M:1093:GLN:HB3	3:N:21:TRP:CZ3	2.44	0.53
2:M:295:ASP:HB3	2:M:297:GLU:OE2	2.08	0.53
2:C:345:ARG:HA	2:C:348:LEU:HB2	1.90	0.53
7:Y:59:GLU:HA	7:Y:62:ILE:HD12	1.91	0.53
7:Y:48:LEU:HD12	7:Y:52:LYS:HE2	1.91	0.53
3:N:25:GLU:HG3	3:N:92:HIS:O	2.08	0.53
2:H:170:PRO:CG	2:H:258:TYR:HE2	1.92	0.53
2:C:516:ARG:HG3	3:D:1068:LEU:HD11	1.90	0.53
3:D:1029:ARG:HH11	3:D:1029:ARG:HG2	1.73	0.53
3:I:875:THR:HG22	3:I:876:SER:N	2.20	0.53
3:D:52:PRO:HG2	3:D:80:VAL:HG22	1.90	0.53
3:N:881:LEU:O	3:N:881:LEU:HD12	2.08	0.53
2:H:556:ASN:OD1	7:Y:46:SER:HB3	2.08	0.53
2:C:418:LEU:CD1	2:C:418:LEU:H	2.22	0.53
3:D:861:GLN:H	3:D:861:GLN:CD	2.13	0.53
3:D:838:ARG:HB3	3:D:865:THR:CG2	2.39	0.53
1:G:74:ASP:O	1:G:78:ILE:HG13	2.09	0.53
2:C:548:PRO:HG2	2:C:842:ARG:NH2	2.24	0.53
2:C:204:GLN:NE2	2:C:228:ALA:HB1	2.24	0.53
3:N:1434:TRP:HZ3	3:N:1455:LYS:O	1.91	0.53
2:H:257:VAL:HG12	2:H:263:ASP:CG	2.29	0.53
7:X:99:ARG:HG3	7:X:99:ARG:NH1	2.14	0.53
2:M:632:ASN:C	2:M:633:GLN:NE2	2.62	0.53
7:Z:22:GLU:OE2	7:Z:25:ARG:NH1	2.42	0.53
2:M:172:ILE:CD1	2:M:172:ILE:H	2.18	0.53
1:G:20:TYR:CD2	1:G:21:GLY:N	2.76	0.53
1:L:56:VAL:HG12	1:L:57:TYR:N	2.24	0.53
3:N:939:PHE:O	3:N:942:SER:HB3	2.09	0.53
2:M:342:ASP:O	2:M:346:VAL:HG23	2.08	0.53
3:D:690:ALA:O	3:D:694:VAL:HG23	2.09	0.53
1:L:133:GLU:HG3	1:L:134:GLU:N	2.24	0.53
3:D:415:VAL:HG12	3:D:416:ALA:N	2.24	0.53
1:B:179:PHE:N	1:B:179:PHE:CD2	2.75	0.53
2:H:722:ILE:CD1	2:H:823:VAL:HG21	2.39	0.53
4:O:27:ALA:O	4:O:31:LEU:HD12	2.09	0.53
2:M:1003:ASP:OD2	2:M:1003:ASP:O	2.27	0.53
2:C:216:GLU:HG3	2:C:219:GLN:HE22	1.73	0.53
7:X:105:VAL:CG2	7:X:109:GLU:HB2	2.39	0.53
3:N:1146:GLY:CA	3:N:1207:TYR:HB2	2.38	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:Y:61:ARG:HH21	7:Y:61:ARG:HG2	1.72	0.53
7:X:43:TYR:HB3	7:X:44:ASP:OD1	2.09	0.53
3:D:1349:VAL:O	3:D:1352:ILE:HB	2.09	0.53
2:C:1084:SER:HA	2:C:1087:VAL:HG12	1.89	0.53
3:D:501:ALA:HB1	3:D:1453:ALA:CB	2.35	0.53
2:C:430:VAL:O	2:C:430:VAL:HG13	2.09	0.53
3:D:800:LYS:CD	3:D:804:LEU:HD22	2.39	0.53
3:N:1262:LEU:HD23	3:N:1352:ILE:CD1	2.38	0.53
2:M:861:LEU:HG	2:M:862:PRO:CD	2.29	0.53
2:M:194:VAL:O	2:M:197:LEU:N	2.42	0.53
3:N:814:ALA:HB1	3:N:818:ARG:NH2	2.24	0.53
3:D:921:ARG:C	3:D:922:LEU:HD23	2.29	0.53
2:H:430:VAL:O	2:H:430:VAL:HG13	2.09	0.53
3:D:156:GLU:O	3:D:160:GLU:HB2	2.09	0.53
1:A:123:MET:O	1:A:125:PRO:HD3	2.09	0.53
2:M:762:LYS:HE3	2:M:786:LYS:HE3	1.90	0.53
2:H:77:PRO:CD	2:H:91:GLN:O	2.57	0.53
2:M:1104:GLU:CD	3:N:3:LYS:HB2	2.30	0.53
3:N:918:ALA:HB3	3:N:927:THR:HG23	1.89	0.53
2:H:147:TYR:O	2:H:148:PHE:CD2	2.62	0.53
2:H:695:LEU:HD21	2:H:832:LYS:HB3	1.90	0.53
3:I:510:GLU:O	3:I:513:ILE:HG13	2.09	0.53
7:Y:6:LYS:HB2	7:Y:6:LYS:NZ	2.23	0.53
3:I:1487:VAL:HG12	3:I:1488:ASP:N	2.23	0.53
4:O:38:THR:OG1	4:O:39:VAL:N	2.40	0.53
3:D:366:LYS:HE2	3:D:369:ALA:HB2	1.91	0.53
3:I:937:TYR:HB3	3:I:941:PHE:HE1	1.73	0.53
1:B:188:GLN:HG2	3:D:685:ASP:OD1	2.08	0.53
3:N:455:ARG:HD3	3:N:459:GLU:HG2	1.91	0.53
2:H:305:PRO:HA	2:H:308:ARG:CB	2.39	0.53
7:Z:102:VAL:HG13	7:Z:119:ILE:HG12	1.91	0.53
3:D:1147:ARG:HD2	3:D:1188:VAL:HG21	1.91	0.53
2:C:290:LEU:HB3	2:C:302:VAL:CG1	2.11	0.53
2:C:675:ALA:HB2	2:C:867:VAL:HG11	1.90	0.53
3:D:50:PHE:CG	3:D:522:PRO:HD3	2.42	0.53
3:N:397:LYS:HG2	3:N:397:LYS:O	2.09	0.53
3:D:438:ASP:HB2	3:D:445:ARG:HH12	1.73	0.53
2:C:835:VAL:O	2:C:849:VAL:O	2.27	0.53
3:I:810:GLU:C	3:I:812:ALA:H	2.11	0.53
2:M:127:PHE:CD1	2:M:136:ILE:HD13	2.43	0.53
2:C:548:PRO:HG2	2:C:842:ARG:CZ	2.39	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:200:LEU:HD13	2:M:300:ASP:CG	2.29	0.53
2:M:202:TYR:OH	2:M:304:LEU:HD22	2.08	0.53
2:M:316:GLY:C	2:M:318:PRO:HD3	2.30	0.53
2:C:224:GLU:HG3	2:C:227:PHE:HB2	1.90	0.53
3:D:481:MET:CE	3:D:496:LEU:HD23	2.39	0.53
3:D:493:ARG:HG3	3:D:494:LYS:N	2.24	0.53
3:I:161:LEU:HG	3:I:397:LYS:NZ	2.23	0.53
1:F:21:GLY:HA3	1:F:207:PRO:CB	2.38	0.53
2:H:737:LEU:HD21	2:H:741:GLY:C	2.29	0.53
2:C:1091:GLU:HB3	3:D:607:LEU:HD21	1.91	0.53
2:H:516:ARG:CD	3:I:1068:LEU:HD22	2.39	0.53
2:H:768:THR:HB	2:H:771:GLU:HB3	1.90	0.53
2:M:876:VAL:O	2:M:879:ARG:O	2.26	0.53
4:E:26:ARG:NH1	4:E:73:LEU:HD21	2.24	0.53
1:L:38:ASN:HB3	1:L:39:PRO:HD3	1.90	0.53
3:N:845:ASN:O	3:N:848:GLU:HB2	2.08	0.53
2:C:20:GLU:OE2	2:C:460:ARG:HB2	2.09	0.53
1:K:49:PRO:O	1:K:173:PRO:HG2	2.09	0.53
4:J:91:ARG:HD2	4:J:92:LEU:HG	1.91	0.53
3:D:787:LEU:HD12	3:D:787:LEU:O	2.09	0.52
3:D:1481:VAL:HG22	4:E:18:ARG:NH2	2.23	0.52
3:N:204:LEU:HD23	3:N:394:LEU:HD11	1.91	0.52
3:I:799:LYS:O	3:I:800:LYS:CD	2.48	0.52
3:D:861:GLN:NE2	3:D:861:GLN:N	2.56	0.52
3:I:805:GLU:O	3:I:809:PRO:HD2	2.08	0.52
3:D:918:ALA:HB3	3:D:927:THR:HG23	1.90	0.52
1:K:184:THR:CG2	1:K:185:ARG:N	2.72	0.52
2:C:193:LEU:HD12	2:C:193:LEU:H	1.74	0.52
3:I:1189:ARG:HB3	3:I:1204:CYS:HA	1.91	0.52
3:D:160:GLU:HA	3:D:165:LYS:CB	2.36	0.52
3:N:890:VAL:CG1	3:N:922:LEU:HD13	2.39	0.52
3:N:1109:GLU:HG2	3:N:1202:GLN:N	2.23	0.52
3:D:202:VAL:C	3:D:395:VAL:HG13	2.30	0.52
3:D:563:PRO:CG	3:D:566:ILE:HD12	2.37	0.52
2:C:653:ASP:OD1	2:C:654:LEU:HD23	2.08	0.52
2:H:148:PHE:CE1	2:H:309:TYR:HB3	2.42	0.52
3:D:1288:GLU:HG3	3:D:1289:LYS:HG3	1.91	0.52
2:M:88:LEU:HD22	2:M:814:GLU:HG2	1.90	0.52
2:M:376:ARG:CB	2:M:377:PRO:HD3	2.39	0.52
3:D:702:LEU:O	3:D:713:ILE:HA	2.09	0.52
2:M:540:PHE:CE1	2:M:550:LEU:HD23	2.45	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:167:VAL:HG12	1:K:168:ASP:N	2.24	0.52
3:D:1041:LEU:HD12	3:D:1058:ARG:HA	1.89	0.52
7:Z:123:SER:O	7:Z:127:LYS:N	2.40	0.52
3:I:695:ILE:O	3:I:696:HIS:C	2.48	0.52
3:N:205:TYR:CE2	3:N:441:ARG:NH2	2.77	0.52
4:J:23:VAL:HG22	4:J:68:LEU:CD2	2.39	0.52
1:B:42:ARG:NH1	1:B:42:ARG:HG2	2.21	0.52
3:D:1103:HIS:HD2	3:D:1463:LYS:HB2	1.73	0.52
3:I:843:PHE:CE2	3:I:849:ALA:HA	2.43	0.52
3:D:52:PRO:N	3:D:86:ARG:CD	2.71	0.52
2:M:106:GLY:C	2:M:107:LEU:HD23	2.29	0.52
3:N:1330:ILE:HB	3:N:1347:TYR:OH	2.08	0.52
3:I:955:VAL:O	3:I:1039:CYS:HB3	2.08	0.52
3:I:1101:VAL:CG1	3:I:1424:VAL:HG23	2.39	0.52
2:M:861:LEU:HA	2:M:974:LEU:CD1	2.36	0.52
3:D:695:ILE:O	3:D:696:HIS:C	2.47	0.52
2:M:1088:LEU:HD23	2:M:1092:LEU:HD12	1.91	0.52
3:I:1434:TRP:CD1	3:I:1435:LEU:N	2.78	0.52
3:I:705:ALA:CB	3:I:706:PRO:HD3	2.36	0.52
2:H:204:GLN:NE2	2:H:228:ALA:CB	2.71	0.52
1:L:86:VAL:CG1	1:L:124:ASN:HB2	2.35	0.52
3:I:1217:ILE:HB	3:I:1480:PHE:HD2	1.71	0.52
2:M:579:VAL:HG11	2:M:887:GLU:HG3	1.90	0.52
3:I:484:PRO:CB	3:I:488:ARG:NE	2.71	0.52
1:F:123:MET:C	1:F:125:PRO:HD3	2.29	0.52
1:F:56:VAL:CG1	1:F:57:TYR:N	2.72	0.52
1:K:35:THR:HG21	1:L:43:ILE:CD1	2.39	0.52
2:H:1029:GLY:O	3:I:622:ARG:HB3	2.09	0.52
2:M:6:PHE:CD1	2:M:6:PHE:N	2.76	0.52
1:B:57:TYR:HB2	1:B:164:ALA:HB2	1.92	0.52
1:B:56:VAL:HG12	1:B:57:TYR:H	1.73	0.52
2:M:20:GLU:OE2	2:M:460:ARG:HB2	2.09	0.52
1:K:49:PRO:HB3	1:K:148:VAL:HG22	1.91	0.52
3:N:563:PRO:HG2	3:N:566:ILE:HB	1.91	0.52
3:D:131:LYS:O	3:D:131:LYS:HG2	2.09	0.52
7:X:45:ASP:O	7:X:47:GLY:N	2.36	0.52
3:N:203:ALA:HB1	3:N:393:ILE:HG21	1.91	0.52
3:D:136:ASP:HB3	3:D:453:ASP:O	2.10	0.52
2:M:204:GLN:CD	2:M:228:ALA:HB1	2.29	0.52
2:C:431:HIS:CD2	2:C:433:THR:OG1	2.63	0.52
3:D:835:SER:H	3:D:838:ARG:NE	2.08	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:438:ASP:HB2	3:D:445:ARG:NH1	2.24	0.52
2:C:1001:VAL:HG13	2:C:1004:LYS:HB3	1.91	0.52
3:N:1011:PHE:HB3	3:N:1021:TYR:CD1	2.43	0.52
2:M:181:VAL:HG12	2:M:182:VAL:N	2.22	0.52
3:N:810:GLU:C	3:N:812:ALA:N	2.63	0.52
2:M:140:ILE:CG2	2:M:333:ILE:HD13	2.39	0.52
2:C:191:PHE:CZ	2:C:196:LEU:HD12	2.43	0.52
2:C:64:LEU:CB	2:C:359:MET:HG3	2.40	0.52
2:H:260:LEU:C	2:H:260:LEU:HD12	2.30	0.52
3:D:550:ARG:NE	3:D:573:MET:CE	2.72	0.52
3:D:977:ALA:HB3	3:D:983:LEU:HD11	1.89	0.52
3:N:1190:SER:OG	3:N:1191:PRO:HD2	2.09	0.52
2:H:355:VAL:HG23	2:H:372:LEU:HG	1.91	0.52
3:N:698:LYS:HB3	3:N:756:GLN:NE2	2.23	0.52
1:A:161:ARG:NH1	1:F:102:LYS:HE3	2.24	0.52
7:Z:133:ARG:HG2	7:Z:134:VAL:N	2.24	0.52
2:M:850:ALA:HA	3:N:632:VAL:CG1	2.39	0.52
2:M:909:ALA:HB1	2:M:914:ILE:HD11	1.91	0.52
1:B:57:TYR:CE2	1:B:161:ARG:HG2	2.45	0.52
3:I:1137:ARG:NH2	3:I:1172:HIS:NE2	2.57	0.52
3:N:30:GLU:HA	3:N:30:GLU:OE1	2.10	0.52
2:C:806:LEU:HB2	2:C:822:VAL:HG22	1.91	0.52
2:H:953:VAL:HG11	2:H:962:GLN:HB3	1.91	0.52
3:I:1177:ALA:CB	3:I:1183:ILE:HD11	2.40	0.52
1:F:222:LEU:HD21	1:G:218:LEU:HD23	1.90	0.52
3:D:1426:LYS:HA	3:D:1429:LEU:HB2	1.91	0.52
1:G:36:LEU:HD23	1:G:36:LEU:N	2.25	0.52
3:I:1194:CYS:HB3	3:I:1373:ARG:NH1	2.23	0.52
2:H:946:ARG:HD2	2:H:984:GLU:HB2	1.88	0.52
2:C:170:PRO:CD	2:C:258:TYR:HE1	2.22	0.52
3:I:796:ARG:HG3	3:I:861:GLN:O	2.10	0.52
3:I:804:LEU:CG	3:I:831:GLY:CA	2.86	0.52
1:B:80:LEU:CD2	3:D:867:ARG:HB2	2.39	0.52
3:N:165:LYS:HZ3	3:N:199:LEU:CD2	2.22	0.52
3:N:397:LYS:CG	3:N:448:GLU:HB2	2.29	0.52
3:N:885:ILE:HG23	3:N:937:TYR:CE1	2.45	0.52
7:Z:31:LYS:O	7:Z:34:GLN:HB3	2.10	0.52
2:H:686:ASP:O	2:H:688:ILE:CD1	2.58	0.52
2:H:687:ALA:HB1	2:H:850:ALA:HB2	1.92	0.52
3:D:452:ILE:HD13	3:D:452:ILE:O	2.09	0.52
3:D:880:ILE:CG2	3:D:881:LEU:N	2.71	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:127:LEU:O	3:I:457:GLY:HA2	2.09	0.52
2:M:861:LEU:HD23	2:M:863:ASP:H	1.73	0.52
2:C:544:THR:C	2:C:546:LEU:H	2.13	0.52
2:M:148:PHE:HE1	2:M:309:TYR:HD2	1.56	0.52
2:C:691:SER:OG	2:C:693:GLU:HB3	2.10	0.52
2:C:176:VAL:HG12	2:C:182:VAL:HG13	1.91	0.52
2:C:56:GLU:C	2:C:56:GLU:CD	2.68	0.52
1:F:75:VAL:O	1:F:79:ILE:HG23	2.09	0.52
4:E:31:LEU:HD12	4:E:32:ARG:H	1.67	0.52
3:N:969:ARG:HG3	3:N:970:LYS:N	2.24	0.52
3:D:982:PHE:CD1	7:X:125:MET:SD	3.02	0.52
3:I:954:ALA:HB3	3:I:1062:ARG:HG2	1.91	0.52
3:D:1314:LYS:N	3:D:1314:LYS:CD	2.69	0.52
2:C:725:ASP:HB3	2:C:783:ARG:NH1	2.24	0.52
3:D:1408:ILE:H	3:D:1408:ILE:CD1	2.21	0.52
1:K:198:ARG:HD3	1:K:200:TRP:HH2	1.73	0.52
2:M:50:GLU:HA	2:M:266:ARG:CZ	2.40	0.52
3:N:577:ALA:O	3:N:580:ALA:HB3	2.08	0.52
7:Z:21:ARG:HH11	7:Z:21:ARG:HG2	1.73	0.52
3:I:1496:GLU:CD	3:I:1500:LYS:HE3	2.30	0.52
3:I:1304:LYS:O	3:I:1306:PRO:HD3	2.08	0.52
3:D:593:ASN:O	3:D:594:PRO:C	2.47	0.52
2:C:512:ARG:CA	2:C:523:ILE:HD11	2.39	0.52
3:D:787:LEU:HD12	3:D:787:LEU:C	2.30	0.52
3:I:1481:VAL:HG12	4:J:21:VAL:HG21	1.91	0.52
3:I:1209:LEU:HD21	4:J:16:LYS:HZ1	1.71	0.52
4:J:19:LEU:O	4:J:23:VAL:HG23	2.10	0.52
3:N:770:LEU:HB2	3:N:1210:SER:O	2.10	0.52
2:C:52:PHE:HD1	2:C:52:PHE:O	1.92	0.52
3:I:1102:THR:HG21	3:I:1371:VAL:HG22	1.92	0.52
2:H:1092:LEU:HD13	2:H:1099:VAL:HG21	1.92	0.52
2:H:78:PHE:HB3	2:H:79:PRO:CD	2.37	0.52
2:C:722:ILE:HD13	2:C:722:ILE:C	2.29	0.52
2:H:838:LYS:NZ	2:H:846:LYS:NZ	2.58	0.52
3:N:402:PRO:HA	3:N:443:VAL:HG23	1.92	0.52
2:M:161:SER:O	2:M:162:ILE:HD12	2.10	0.52
1:A:73:GLU:HB3	1:A:77:GLU:HG2	1.91	0.52
2:M:524:VAL:CG1	2:M:525:SER:H	2.22	0.52
3:I:899:LEU:HD12	3:I:900:ILE:CG2	2.39	0.52
2:M:12:VAL:HB	2:M:472:ARG:HH11	1.73	0.52
3:D:845:ASN:O	3:D:848:GLU:HB2	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:630:ARG:HH11	2:M:630:ARG:HG3	1.75	0.52
1:A:174:VAL:HG13	1:A:200:TRP:O	2.10	0.52
2:M:554:ASP:HB2	2:M:880:MET:HB2	1.91	0.52
2:H:94:LEU:C	2:H:94:LEU:HD12	2.30	0.52
1:A:7:LYS:HD3	1:A:7:LYS:O	2.09	0.52
2:C:931:GLY:C	2:C:933:GLY:H	2.13	0.52
1:A:104:GLU:OE1	1:A:137:ARG:HG2	2.09	0.52
2:C:455:LEU:C	2:C:455:LEU:CD1	2.78	0.52
3:I:875:THR:CG2	3:I:879:ARG:HG3	2.40	0.52
3:N:1401:GLU:OE2	3:N:1415:VAL:CG2	2.57	0.52
2:H:683:ASN:CA	2:H:687:ALA:HB3	2.38	0.52
2:H:52:PHE:CG	2:H:53:PRO:N	2.78	0.52
2:M:395:LYS:HG2	2:M:397:GLU:HG3	1.90	0.52
4:E:54:LEU:HG	4:E:58:PRO:HG3	1.91	0.52
2:H:1009:SER:OG	2:H:1010:THR:N	2.43	0.52
1:A:167:VAL:HG12	1:A:168:ASP:H	1.75	0.52
3:I:1205:TYR:CE1	3:I:1221:VAL:HG11	2.45	0.52
3:N:179:VAL:HG13	3:N:183:GLU:CB	2.33	0.52
2:C:943:VAL:HG23	2:C:985:GLY:N	2.16	0.52
3:I:699:VAL:H	3:I:756:GLN:NE2	2.07	0.52
3:I:650:LEU:HD22	3:I:688:TRP:HH2	1.75	0.52
1:B:199:ILE:HB	1:B:207:PRO:HB3	1.91	0.52
3:N:1122:LEU:HD11	3:N:1186:VAL:CG2	2.34	0.52
1:K:156:HIS:CD2	1:K:158:ILE:HG12	2.33	0.52
3:D:683:ILE:HD13	3:D:688:TRP:HZ2	1.75	0.52
1:B:24:VAL:HG13	1:B:196:THR:HG22	1.92	0.52
3:N:1108:ARG:HH11	3:N:1108:ARG:HG3	1.75	0.52
3:N:1166:LEU:N	3:N:1166:LEU:HD23	2.21	0.52
1:A:170:VAL:CG2	1:A:170:VAL:O	2.53	0.52
3:I:1119:SER:HA	3:I:1186:VAL:O	2.10	0.52
1:F:41:ARG:HG3	1:F:177:VAL:CG1	2.40	0.52
7:Y:115:THR:CB	7:Y:116:PRO:CD	2.87	0.52
3:N:140:ALA:CB	3:N:450:TYR:CE2	2.90	0.52
3:D:1082:ALA:O	3:D:1086:LEU:HD13	2.10	0.52
2:H:1051:GLU:CG	2:H:1056:LYS:HE3	2.40	0.52
3:I:696:HIS:HB2	4:J:48:MET:CE	2.40	0.52
3:I:166:GLN:NE2	3:I:394:LEU:HD12	2.24	0.52
7:Z:32:ILE:O	7:Z:35:GLU:HB2	2.09	0.52
3:I:543:LEU:HD22	3:I:580:ALA:CB	2.25	0.52
3:I:133:ILE:HG22	3:I:134:VAL:H	1.74	0.52
2:M:96:ALA:O	2:M:98:LEU:HD11	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:946:ARG:HD3	2:C:984:GLU:HB2	1.91	0.52
3:I:564:GLU:N	2:M:223:ASP:HB2	2.22	0.52
2:M:199:VAL:CG2	2:M:238:LEU:HD12	2.39	0.52
3:N:1448:THR:O	3:N:1452:ILE:HD13	2.09	0.52
3:D:179:VAL:HG21	3:D:189:GLN:NE2	2.17	0.52
3:I:1205:TYR:HD2	3:I:1215:VAL:CG2	2.17	0.52
1:F:206:THR:HG23	1:F:208:LEU:N	2.24	0.52
3:I:702:LEU:O	3:I:713:ILE:HA	2.09	0.52
7:X:102:VAL:HG11	7:X:125:MET:HE2	1.92	0.52
1:L:185:ARG:CZ	3:N:692:GLU:HB3	2.40	0.52
1:B:41:ARG:HG3	1:B:177:VAL:HG23	1.89	0.52
2:H:77:PRO:HD2	2:H:91:GLN:O	2.10	0.52
2:H:567:GLN:HB2	2:H:997:LEU:HD12	1.91	0.52
3:N:702:LEU:O	3:N:713:ILE:HA	2.09	0.52
1:F:58:ILE:HG21	1:F:61:VAL:HG23	1.92	0.52
1:L:100:LEU:CD2	1:L:141:GLU:HB3	2.40	0.52
3:N:104:PHE:CD1	3:N:512:MET:HG2	2.44	0.52
2:M:690:ILE:HG23	2:M:852:ILE:HA	1.91	0.52
7:Y:6:LYS:HD2	7:Y:75:LEU:CD1	2.40	0.52
4:E:85:LEU:O	4:E:85:LEU:HD23	2.09	0.52
3:D:1221:VAL:CG1	3:D:1370:ILE:HD13	2.40	0.52
3:N:398:ALA:HB2	3:N:447:VAL:HA	1.90	0.52
2:H:863:ASP:O	2:H:865:THR:N	2.43	0.52
2:H:676:ILE:HG22	2:H:988:VAL:O	2.09	0.52
2:C:300:ASP:OD2	2:C:303:PHE:HB2	2.10	0.52
2:C:265:ARG:H	2:C:289:THR:HG21	1.75	0.52
2:M:101:ILE:HD12	2:M:107:LEU:HD13	1.92	0.52
3:N:1205:TYR:CE1	3:N:1221:VAL:HG11	2.44	0.52
2:H:1081:VAL:CG1	2:H:1085:PHE:HB3	2.40	0.52
3:I:616:GLN:NE2	3:I:621:LYS:HG3	2.25	0.52
3:D:396:VAL:HG23	3:D:398:ALA:HB3	1.91	0.52
3:I:1101:VAL:HG21	3:I:1424:VAL:HG23	1.91	0.52
2:M:344:PHE:CE2	2:M:378:LEU:HD11	2.44	0.52
2:M:69:LEU:HD12	2:M:97:ARG:HB3	1.90	0.52
2:C:391:LEU:HD23	2:C:391:LEU:O	2.09	0.52
3:I:628:ARG:NH1	3:I:628:ARG:HG3	2.25	0.52
1:A:124:ASN:HD21	1:A:127:LEU:CD2	2.22	0.52
3:D:143:ASN:HB3	3:D:161:LEU:HD21	1.89	0.52
3:N:687:VAL:O	3:N:690:ALA:HB3	2.10	0.52
2:M:1008:ARG:NE	2:M:1027:PHE:O	2.43	0.52
2:M:897:LEU:HD21	2:M:921:ALA:HA	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:102:ILE:CD1	3:D:106:LYS:HB2	2.39	0.52
3:N:1110:ALA:O	3:N:1111:ASP:C	2.47	0.52
7:X:84:GLY:CA	7:X:130:LEU:HD11	2.40	0.52
3:D:1293:PHE:HZ	3:D:1302:GLU:CD	2.13	0.52
2:H:90:TYR:CD1	2:H:120:LEU:HB2	2.45	0.52
1:A:20:TYR:O	1:A:207:PRO:HG2	2.10	0.52
3:I:1493:LYS:HA	3:I:1493:LYS:HE2	1.91	0.52
3:N:1189:ARG:HB3	3:N:1204:CYS:HA	1.91	0.52
1:G:54:THR:CG2	1:G:158:ILE:HG13	2.40	0.52
7:Z:77:GLU:O	7:Z:77:GLU:CG	2.56	0.52
3:I:202:VAL:O	3:I:395:VAL:HA	2.09	0.52
1:B:147:GLY:HA3	1:B:171:PHE:CZ	2.44	0.52
3:N:1301:LYS:HA	3:N:1301:LYS:HE2	1.90	0.52
4:J:6:ILE:HG13	4:J:10:PHE:CE1	2.45	0.52
2:M:707:ARG:HG3	2:M:826:TYR:CE1	2.44	0.52
2:C:285:LEU:CD2	2:C:285:LEU:O	2.58	0.52
3:N:793:THR:O	3:N:879:ARG:NH1	2.43	0.52
3:D:827:ILE:HG22	3:D:827:ILE:O	2.10	0.52
3:N:1364:HIS:CE1	3:N:1366:LYS:HG3	2.45	0.52
3:D:705:ALA:HB1	6:Q:10:G:H21	1.75	0.52
2:C:111:ASP:O	2:C:112:GLU:HG2	2.10	0.52
3:I:1098:LEU:HD23	3:I:1226:ALA:O	2.10	0.52
3:I:1263:PHE:HB3	3:I:1424:VAL:CG1	2.39	0.52
2:M:191:PHE:HB2	2:M:241:LEU:CD1	2.40	0.52
3:N:1025:GLN:NE2	3:N:1025:GLN:HA	2.25	0.52
3:N:501:ALA:HB1	3:N:1453:ALA:HB2	1.92	0.52
2:H:198:ARG:NH2	2:H:203:ASP:HA	2.24	0.52
2:M:726:ILE:CG1	2:M:734:LEU:HD11	2.39	0.52
3:D:683:ILE:HD13	3:D:688:TRP:CZ2	2.45	0.52
2:M:893:ALA:O	2:M:897:LEU:HG	2.10	0.52
3:I:554:LEU:HD13	3:I:570:GLU:HB3	1.91	0.52
2:C:508:ILE:HD12	2:C:526:PRO:HB3	1.91	0.52
3:I:426:LYS:NZ	3:I:427:VAL:HG23	2.24	0.52
2:C:557:ARG:NH1	2:C:560:MET:HG3	2.25	0.52
1:F:39:PRO:HG3	1:G:39:PRO:HG3	1.91	0.52
4:J:9:LEU:HD22	4:J:19:LEU:HD11	1.91	0.52
2:C:431:HIS:CG	2:C:432:ARG:N	2.78	0.52
3:N:882:PHE:HA	3:N:885:ILE:HD12	1.92	0.52
3:D:396:VAL:O	3:D:398:ALA:N	2.43	0.52
3:D:645:PRO:HD3	3:D:726:ILE:HG12	1.91	0.52
2:M:136:ILE:N	2:M:136:ILE:CD1	2.72	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:639:LEU:HD12	3:D:640:HIS:N	2.25	0.52
2:M:218:VAL:O	2:M:221:LEU:HG	2.10	0.52
3:I:1148:VAL:HG22	3:I:1165:TYR:CD2	2.45	0.52
3:N:814:ALA:O	3:N:818:ARG:HG3	2.10	0.52
1:L:211:LEU:O	1:L:215:VAL:HG13	2.10	0.52
3:D:696:HIS:NE2	4:E:54:LEU:HD11	2.25	0.52
4:E:54:LEU:HG	4:E:58:PRO:CG	2.40	0.52
3:I:111:LYS:HE3	3:I:1448:THR:CG2	2.38	0.52
3:D:957:PRO:HG2	3:D:1007:VAL:CA	2.40	0.52
3:I:967:ALA:O	3:I:970:LYS:HB3	2.10	0.52
1:F:206:THR:OG1	1:F:207:PRO:CD	2.56	0.52
3:I:982:PHE:CG	3:I:983:LEU:HD23	2.45	0.52
1:L:185:ARG:HH11	3:N:689:ASP:HA	1.72	0.52
3:N:15:PRO:O	3:N:19:ARG:HG3	2.10	0.52
2:H:118:ILE:O	2:H:118:ILE:HD13	2.08	0.52
2:M:1012:PRO:HD3	2:M:1026:GLN:HB2	1.90	0.52
3:D:180:LYS:NZ	3:D:387:LEU:H	2.07	0.52
3:N:695:ILE:HD11	3:N:718:PRO:CB	2.40	0.52
1:F:86:VAL:HG13	1:F:124:ASN:HB2	1.89	0.52
3:I:669:ASN:ND2	3:I:671:LYS:HB2	2.25	0.52
1:L:24:VAL:HG22	1:L:196:THR:CG2	2.39	0.52
1:F:156:HIS:HD2	1:F:157:GLY:H	1.57	0.52
2:H:111:ASP:O	2:H:112:GLU:HG2	2.10	0.52
3:N:722:GLU:O	3:N:722:GLU:HG3	2.07	0.52
3:I:72:VAL:HG22	3:I:77:GLY:HA2	1.92	0.52
2:H:174:LEU:HD23	2:H:184:MET:HA	1.92	0.51
2:C:553:ASP:OD2	2:C:883:GLY:N	2.40	0.51
3:D:1040:GLY:O	3:D:1060:SER:HB3	2.10	0.51
4:J:30:LEU:HD21	4:J:63:TRP:CB	2.39	0.51
2:C:455:LEU:HD12	2:C:455:LEU:O	2.10	0.51
2:C:1085:PHE:HD2	3:D:1468:LEU:HA	1.74	0.51
2:C:1019:GLN:CD	3:D:621:LYS:HB3	2.29	0.51
3:N:452:ILE:HD13	3:N:452:ILE:N	2.25	0.51
3:N:1384:PRO:HB3	3:N:1387:SER:O	2.10	0.51
2:M:1033:GLY:O	2:M:1037:VAL:HG23	2.10	0.51
3:D:841:TYR:HB2	3:D:864:VAL:HG13	1.91	0.51
3:D:208:PRO:HG3	3:D:353:VAL:HG13	1.91	0.51
2:C:886:LEU:HD22	3:D:951:ILE:HD12	1.92	0.51
1:G:56:VAL:HG21	1:G:82:LEU:CD1	2.40	0.51
3:I:996:TRP:HE3	3:I:999:THR:HG21	1.75	0.51
1:B:212:ASN:O	1:B:215:VAL:CG2	2.46	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:290:LEU:H	2:M:290:LEU:HD23	1.73	0.51
3:N:1025:GLN:HE21	3:N:1025:GLN:HA	1.74	0.51
3:N:957:PRO:HG3	3:N:1007:VAL:HA	1.91	0.51
3:N:949:ILE:HG22	3:N:950:GLY:N	2.25	0.51
2:C:374:ASN:H	2:C:374:ASN:HD22	1.58	0.51
7:X:99:ARG:CG	7:X:99:ARG:NH1	2.70	0.51
3:I:1295:GLU:OE2	3:I:1295:GLU:N	2.43	0.51
2:M:1012:PRO:HD3	2:M:1026:GLN:CG	2.40	0.51
3:D:666:ILE:CD1	3:D:686:GLU:HB2	2.41	0.51
2:C:136:ILE:HB	2:C:336:VAL:HG22	1.93	0.51
1:L:134:GLU:OE2	1:L:134:GLU:HA	2.10	0.51
3:D:1108:ARG:HH11	3:D:1108:ARG:HG3	1.76	0.51
3:D:1395:LEU:HD23	3:D:1396:GLU:N	2.24	0.51
2:H:1047:HIS:HB2	3:I:758:GLU:OE1	2.10	0.51
2:C:606:VAL:HG11	2:C:643:VAL:O	2.09	0.51
3:I:470:LEU:HB2	3:I:503:LEU:HD21	1.93	0.51
1:G:154:GLU:OE2	3:I:840:LYS:HE2	2.10	0.51
2:H:250:ARG:NH1	2:H:250:ARG:CB	2.69	0.51
3:D:949:ILE:HD12	3:D:949:ILE:N	2.26	0.51
3:N:202:VAL:O	3:N:395:VAL:HA	2.10	0.51
3:N:396:VAL:O	3:N:398:ALA:N	2.43	0.51
2:C:300:ASP:C	2:C:302:VAL:N	2.61	0.51
2:C:861:LEU:HD23	2:C:863:ASP:N	2.21	0.51
2:C:925:TYR:O	2:C:925:TYR:CD2	2.64	0.51
3:I:826:PRO:C	3:I:828:LYS:H	2.14	0.51
2:M:1082:PRO:C	2:M:1084:SER:H	2.13	0.51
3:N:1209:LEU:O	3:N:1210:SER:C	2.47	0.51
3:D:208:PRO:HG2	3:D:347:VAL:HB	1.91	0.51
1:A:54:THR:O	1:A:158:ILE:HD13	2.10	0.51
3:I:1114:THR:O	3:I:1114:THR:CG2	2.57	0.51
3:I:1033:GLN:OE1	3:I:1036:ARG:NH1	2.43	0.51
2:H:317:VAL:N	2:H:318:PRO:HD3	2.25	0.51
2:C:198:ARG:NH1	2:C:228:ALA:O	2.42	0.51
2:C:184:MET:HE2	2:C:186:VAL:CG1	2.39	0.51
2:C:174:LEU:HD22	2:C:193:LEU:HD21	1.92	0.51
2:H:257:VAL:HG12	2:H:263:ASP:OD2	2.09	0.51
1:L:88:ARG:NH1	1:L:123:MET:HE1	2.19	0.51
3:D:13:ALA:CB	3:D:18:ILE:HD11	2.39	0.51
2:C:129:ILE:CG2	2:C:130:ASN:N	2.67	0.51
3:D:180:LYS:HZ1	3:D:386:HIS:CA	2.23	0.51
3:I:483:HIS:CB	3:I:484:PRO:HD3	2.37	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:206:THR:HG23	1:A:208:LEU:N	2.25	0.51
7:Z:57:ARG:NH2	7:Z:61:ARG:HD2	2.26	0.51
1:L:56:VAL:O	1:L:164:ALA:HB1	2.09	0.51
3:I:62:LYS:HD2	3:I:75:ARG:HD2	1.92	0.51
7:Y:139:SER:OG	7:Y:148:GLU:CG	2.56	0.51
2:H:690:ILE:HG23	2:H:852:ILE:HG23	1.92	0.51
2:M:159:ILE:HD12	2:M:159:ILE:C	2.30	0.51
1:F:44:LEU:HD23	1:F:214:ALA:HB2	1.91	0.51
1:K:178:ALA:HB2	2:M:864:GLY:N	2.25	0.51
3:D:626:SER:O	3:D:652:LEU:HD11	2.10	0.51
1:L:146:ARG:O	1:L:146:ARG:HG3	2.10	0.51
7:Y:105:VAL:HB	7:Y:109:GLU:HB2	1.92	0.51
2:H:139:GLN:NE2	2:H:414:GLY:HA3	2.25	0.51
2:C:682:TYR:CE1	2:C:851:LYS:HD3	2.44	0.51
7:Z:102:VAL:CG1	7:Z:103:GLN:N	2.73	0.51
3:N:982:PHE:CD2	7:Z:119:ILE:HG23	2.45	0.51
2:H:861:LEU:HD23	2:H:863:ASP:H	1.74	0.51
2:C:170:PRO:CG	2:C:258:TYR:HE1	2.23	0.51
2:C:863:ASP:CG	2:C:865:THR:HG22	2.31	0.51
3:I:804:LEU:HB3	3:I:831:GLY:HA2	1.92	0.51
3:N:1481:VAL:O	3:N:1481:VAL:HG12	2.09	0.51
3:N:796:ARG:HB2	3:N:828:LYS:HD3	1.93	0.51
3:D:208:PRO:HG2	3:D:347:VAL:CB	2.40	0.51
3:D:384:VAL:CG1	3:D:385:VAL:N	2.74	0.51
3:N:470:LEU:HD12	3:N:503:LEU:HD23	1.92	0.51
3:I:1258:ARG:HH21	3:I:1351:GLU:CG	2.23	0.51
2:M:259:GLY:O	2:M:291:ALA:CA	2.57	0.51
2:M:603:VAL:HG21	2:M:643:VAL:CG1	2.40	0.51
2:M:571:LEU:HD23	2:M:670:GLN:NE2	2.21	0.51
2:C:722:ILE:HG21	2:C:821:GLU:OE1	2.10	0.51
2:H:564:MET:CE	2:H:846:LYS:HD2	2.40	0.51
3:N:368:VAL:HB	3:N:377:VAL:CG2	2.40	0.51
7:Z:58:ILE:O	7:Z:62:ILE:HD13	2.10	0.51
2:C:480:THR:HG22	2:C:481:ASP:N	2.23	0.51
3:I:1063:GLU:CD	3:I:1064:GLY:N	2.62	0.51
2:M:794:PRO:HG2	2:M:1025:ALA:C	2.30	0.51
1:F:63:HIS:HB2	2:H:799:ILE:HG21	1.91	0.51
7:Z:10:ALA:O	7:Z:14:ARG:HG3	2.10	0.51
3:I:1330:ILE:HB	3:I:1347:TYR:OH	2.10	0.51
3:N:1132:LEU:N	3:N:1132:LEU:HD12	2.26	0.51
3:I:1486:VAL:HG23	4:J:29:GLN:HE22	1.75	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:170:PRO:HD2	2:C:258:TYR:HE1	1.75	0.51
2:M:224:GLU:CD	2:M:227:PHE:HD1	2.13	0.51
1:K:18:ARG:NH1	1:K:88:ARG:HE	2.09	0.51
2:C:925:TYR:C	2:C:925:TYR:CD2	2.83	0.51
2:C:437:ARG:HG2	2:C:467:ILE:O	2.09	0.51
2:H:686:ASP:OD1	2:H:879:ARG:NH2	2.44	0.51
3:I:617:ASN:O	3:I:1466:VAL:CG1	2.58	0.51
3:D:176:ASP:HB2	3:D:388:HIS:C	2.30	0.51
2:C:578:VAL:HG11	2:C:991:GLN:HB3	1.91	0.51
2:C:839:LEU:N	2:C:839:LEU:HD23	2.25	0.51
2:C:54:ILE:HG21	2:C:66:LEU:HB3	1.92	0.51
2:C:957:LYS:CD	2:C:961:GLU:HB3	2.40	0.51
2:M:195:LEU:HD23	2:M:241:LEU:CD1	2.40	0.51
2:M:140:ILE:HA	2:M:332:ARG:O	2.11	0.51
3:I:160:GLU:HG2	3:I:165:LYS:CG	2.40	0.51
3:D:458:ALA:HB2	3:D:575:GLN:NE2	2.26	0.51
7:X:123:SER:O	7:X:127:LYS:N	2.38	0.51
3:I:983:LEU:HD23	3:I:983:LEU:N	2.25	0.51
2:M:1012:PRO:HD3	2:M:1026:GLN:NE2	2.24	0.51
1:A:100:LEU:HD21	1:A:102:LYS:HE2	1.93	0.51
3:I:140:ALA:N	3:I:450:TYR:CE2	2.64	0.51
2:C:207:LEU:HD22	2:C:221:LEU:HD13	1.91	0.51
3:I:672:ALA:O	3:I:676:MET:HB2	2.11	0.51
4:E:26:ARG:O	4:E:30:LEU:HD12	2.10	0.51
4:E:30:LEU:O	4:E:35:PHE:HA	2.09	0.51
7:Z:152:VAL:O	7:Z:153:ALA:HB2	2.11	0.51
3:N:140:ALA:N	3:N:450:TYR:CE2	2.74	0.51
2:H:122:THR:CG2	2:H:123:GLU:N	2.74	0.51
3:D:1403:LEU:O	3:D:1407:LEU:HD13	2.10	0.51
2:M:108:ILE:H	2:M:108:ILE:HD12	1.75	0.51
3:D:1487:VAL:HG12	3:D:1488:ASP:N	2.25	0.51
4:E:75:PHE:CD2	4:E:75:PHE:N	2.79	0.51
3:D:1256:LEU:O	3:D:1260:ILE:HG13	2.11	0.51
3:N:1295:GLU:HB2	3:N:1300:SER:HB3	1.92	0.51
2:C:512:ARG:HA	2:C:523:ILE:HD11	1.93	0.51
7:X:54:GLU:HA	7:X:54:GLU:OE1	2.10	0.51
2:M:889:HIS:O	2:M:892:LEU:HB3	2.11	0.51
2:C:118:ILE:HD12	2:C:119:PRO:O	2.10	0.51
1:F:174:VAL:HG13	1:F:200:TRP:O	2.11	0.51
2:H:200:LEU:HD13	2:H:300:ASP:CG	2.31	0.51
2:H:302:VAL:C	2:H:305:PRO:HD2	2.30	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:515:ALA:O	2:C:516:ARG:HD3	2.11	0.51
3:D:1221:VAL:O	3:D:1222:GLY:C	2.49	0.51
2:C:1082:PRO:HD2	3:D:1468:LEU:O	2.11	0.51
3:N:154:THR:CG2	3:N:157:GLU:HB2	2.40	0.51
2:H:876:VAL:N	2:H:877:PRO:HD2	2.25	0.51
2:M:101:ILE:HD12	2:M:107:LEU:HD22	1.92	0.51
3:N:1225:ALA:HB2	3:N:1370:ILE:CD1	2.39	0.51
3:N:704:ARG:HH12	3:N:743:ASP:CG	2.14	0.51
2:M:1001:VAL:HG13	2:M:1004:LYS:HB3	1.92	0.51
2:C:368:THR:HB	2:C:369:PRO:HD2	1.88	0.51
3:I:1011:PHE:HB3	3:I:1021:TYR:CD1	2.45	0.51
2:M:140:ILE:CG2	2:M:410:ILE:HG21	2.41	0.51
3:D:696:HIS:CD2	4:E:58:PRO:HB2	2.46	0.51
3:D:1272:ALA:CA	3:D:1326:THR:HB	2.40	0.51
3:I:1256:LEU:O	3:I:1260:ILE:HG13	2.10	0.51
1:L:86:VAL:HG12	1:L:124:ASN:ND2	2.25	0.51
1:G:185:ARG:HD2	1:G:186:LEU:CA	2.40	0.51
7:X:125:MET:O	7:X:129:LEU:HG	2.10	0.51
2:H:545:ASN:HB3	2:H:583:LEU:CD2	2.41	0.51
3:N:80:VAL:HG12	3:N:81:THR:N	2.25	0.51
2:M:549:PHE:CD1	2:M:886:LEU:HD23	2.44	0.51
3:N:1422:MET:HE2	3:N:1427:SER:HA	1.92	0.51
3:N:642:CYS:HB3	3:N:716:PHE:CD2	2.45	0.51
2:M:666:LEU:HD12	2:M:667:ALA:N	2.25	0.51
2:H:610:ARG:HH11	2:H:610:ARG:HG3	1.75	0.51
2:M:339:LEU:O	2:M:342:ASP:HB3	2.10	0.51
1:L:52:ALA:HB3	1:L:171:PHE:CD1	2.46	0.51
3:N:1176:LYS:O	3:N:1179:GLU:HB2	2.09	0.51
3:N:1493:LYS:HA	3:N:1493:LYS:HE2	1.93	0.51
3:D:1041:LEU:HD12	3:D:1058:ARG:CA	2.41	0.51
2:C:1060:ILE:HG13	2:C:1061:GLU:N	2.25	0.51
3:D:204:LEU:HD13	3:D:441:ARG:NH1	2.24	0.51
3:I:957:PRO:HA	3:I:1010:ASN:HD22	1.74	0.51
3:N:1353:GLN:NE2	3:N:1368:ILE:HD11	2.25	0.51
3:I:813:LEU:O	3:I:817:GLU:CB	2.55	0.51
2:M:289:THR:C	2:M:291:ALA:N	2.64	0.51
2:M:317:VAL:O	2:M:317:VAL:HG12	2.11	0.51
2:C:691:SER:O	2:C:692:GLU:C	2.49	0.51
2:C:853:LEU:HB3	2:C:858:MET:HE3	1.92	0.51
3:D:481:MET:HE2	3:D:493:ARG:CB	2.41	0.51
3:D:1129:THR:HG23	3:D:1130:ARG:N	2.26	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1107:VAL:O	3:N:1218:GLY:N	2.38	0.51
3:I:1235:GLN:HB2	7:Y:37:MET:HE3	1.91	0.51
2:H:918:LEU:HD23	2:H:968:LEU:HA	1.92	0.51
2:M:843:HIS:CD2	2:M:884:GLN:HA	2.45	0.51
1:G:24:VAL:HG13	1:G:196:THR:HG22	1.91	0.51
2:M:139:GLN:HE22	2:M:414:GLY:HA3	1.74	0.51
2:C:90:TYR:CE1	2:C:120:LEU:HB2	2.45	0.51
2:H:690:ILE:HD12	2:H:833:LEU:HD23	1.92	0.51
1:F:62:LEU:CD1	1:F:62:LEU:N	2.73	0.51
1:G:62:LEU:HD12	1:G:62:LEU:H	1.76	0.51
1:L:195:LEU:HD12	1:L:196:THR:N	2.26	0.51
2:H:507:ARG:HH11	2:H:507:ARG:HG2	1.76	0.51
1:G:228:PRO:O	1:G:229:GLN:HG3	2.11	0.51
2:M:353:ARG:HH11	2:M:353:ARG:HG3	1.76	0.51
2:C:775:ARG:HD2	2:C:782:ALA:HB3	1.93	0.51
7:Z:70:SER:OG	7:Z:71:ARG:HG3	2.11	0.51
3:I:922:LEU:HD23	3:I:922:LEU:N	2.25	0.51
2:H:194:VAL:O	2:H:197:LEU:N	2.44	0.51
2:H:196:LEU:O	2:H:199:VAL:CB	2.52	0.51
3:D:1105:ILE:HD12	3:D:1105:ILE:H	1.74	0.51
3:D:1147:ARG:O	3:D:1165:TYR:HA	2.10	0.51
2:C:1082:PRO:C	2:C:1084:SER:N	2.63	0.51
3:D:501:ALA:CB	3:D:1452:ILE:HG22	2.41	0.51
3:I:862:ASP:O	3:I:864:VAL:HG23	2.11	0.51
2:C:274:ARG:HB2	2:C:285:LEU:CD1	2.23	0.51
2:H:876:VAL:H	2:H:877:PRO:HD2	1.75	0.51
2:H:554:ASP:HB2	2:H:880:MET:HB2	1.92	0.51
2:H:691:SER:O	2:H:692:GLU:C	2.49	0.51
3:D:907:GLU:N	3:D:910:SER:OG	2.42	0.51
3:I:520:LEU:HD11	3:I:524:LEU:CD2	2.41	0.51
3:D:441:ARG:NH1	3:D:445:ARG:NH2	2.57	0.51
3:D:644:LEU:HD12	3:D:645:PRO:CD	2.41	0.51
3:N:170:PRO:HA	3:N:392:SER:HB3	1.92	0.51
3:I:1101:VAL:HG11	3:I:1424:VAL:HG23	1.91	0.51
2:M:601:GLY:HA2	2:M:616:GLU:HG2	1.92	0.51
2:H:253:ALA:O	2:H:257:VAL:CG2	2.59	0.51
2:M:429:ASP:CG	3:N:1079:LYS:HE2	2.31	0.51
2:C:309:TYR:HE2	2:C:321:GLU:HB3	1.75	0.51
3:D:584:ASN:CG	3:D:590:PRO:HD2	2.30	0.51
1:F:58:ILE:HA	1:F:140:MET:HB3	1.92	0.51
3:N:215:TYR:HB3	3:N:383:GLY:HA2	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:876:VAL:H	2:M:877:PRO:HD2	1.73	0.51
2:C:630:ARG:HA	2:C:705:ILE:HD12	1.93	0.51
3:D:1402:ALA:HB2	3:D:1415:VAL:HG21	1.90	0.51
3:D:102:ILE:HD12	3:D:586:ARG:HG3	1.93	0.51
3:N:988:ARG:HD3	3:N:992:ILE:CD1	2.40	0.51
1:A:19:GLU:O	1:A:207:PRO:HG3	2.11	0.51
3:I:890:VAL:HG11	3:I:922:LEU:CD1	2.41	0.51
4:J:85:LEU:C	4:J:85:LEU:HD23	2.31	0.51
7:Y:20:GLU:HA	7:Y:20:GLU:OE1	2.09	0.51
2:M:805:ARG:HD3	2:M:807:ARG:HG2	1.92	0.51
2:H:181:VAL:HG12	2:H:182:VAL:N	2.25	0.51
2:C:554:ASP:OD2	2:C:556:ASN:HB3	2.11	0.51
2:C:557:ARG:HH11	2:C:557:ARG:HG3	1.76	0.51
3:D:1258:ARG:HH21	3:D:1351:GLU:CG	2.21	0.51
3:N:1080:GLY:O	3:N:1084:THR:HG23	2.10	0.51
3:I:1107:VAL:O	3:I:1218:GLY:N	2.38	0.51
2:H:952:LEU:HD11	2:H:971:LYS:NZ	2.26	0.51
2:C:862:PRO:HG2	2:C:925:TYR:OH	2.11	0.51
3:D:520:LEU:O	3:D:525:ARG:NH1	2.44	0.51
3:N:789:LEU:CD1	3:N:911:LEU:HD21	2.41	0.51
3:N:1380:GLU:HA	3:N:1391:GLU:O	2.11	0.51
2:H:679:PHE:H	2:H:683:ASN:ND2	2.08	0.51
3:I:784:ASP:HB3	3:I:939:PHE:CE2	2.46	0.51
3:N:1192:LEU:HD22	3:N:1345:GLU:OE2	2.10	0.51
3:I:1320:GLU:CG	3:I:1339:LYS:HZ2	2.21	0.51
2:M:281:LEU:O	2:M:282:GLY:O	2.29	0.51
3:D:117:ASP:HB2	3:D:495:ARG:NH2	2.26	0.51
3:I:131:LYS:HE3	3:I:456:MET:CE	2.40	0.51
3:N:178:LEU:O	3:N:179:VAL:HG23	2.10	0.51
3:N:758:GLU:HB3	4:O:20:THR:HG21	1.91	0.51
3:I:850:LEU:H	3:I:850:LEU:CD1	2.18	0.51
3:D:98:PRO:HG2	3:D:462:GLN:OE1	2.11	0.51
4:J:28:GLN:O	4:J:31:LEU:HD12	2.10	0.51
7:X:128:ALA:CB	7:X:140:LEU:HD11	2.40	0.51
1:L:185:ARG:NH2	3:N:692:GLU:HG2	2.26	0.51
2:H:887:GLU:OE1	2:H:993:PHE:N	2.31	0.51
3:I:1066:THR:HG22	3:I:1069:GLU:CD	2.30	0.51
2:M:1008:ARG:HH12	2:M:1010:THR:CA	2.24	0.51
3:I:465:LEU:HD11	3:I:509:PRO:O	2.10	0.51
2:M:440:PRO:HB2	3:N:1074:SER:OG	2.10	0.51
2:M:1071:ILE:O	3:N:659:LYS:HG2	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:1073:GLY:N	3:N:659:LYS:HG3	2.25	0.51
7:Z:48:LEU:HD12	7:Z:52:LYS:HE3	1.93	0.51
3:N:550:ARG:NE	3:N:573:MET:HE2	2.26	0.51
2:C:151:ASP:CG	2:C:152:PRO:HD2	2.31	0.51
3:N:30:GLU:HB3	3:N:40:GLU:CB	2.41	0.51
1:B:227:ASN:ND2	1:B:227:ASN:N	2.58	0.51
3:I:72:VAL:CG2	3:I:77:GLY:HA2	2.41	0.51
7:Z:66:GLU:O	7:Z:70:SER:HB3	2.11	0.51
2:C:728:HIS:O	2:C:729:LEU:HD22	2.11	0.51
2:C:463:GLU:OE2	2:C:463:GLU:HA	2.10	0.51
2:H:165:LEU:HA	2:H:166:PRO:O	2.11	0.51
3:I:493:ARG:CG	3:I:494:LYS:N	2.74	0.51
7:Z:115:THR:OG1	7:Z:116:PRO:CD	2.50	0.51
7:Z:102:VAL:CG2	7:Z:119:ILE:HD11	2.35	0.51
2:C:1092:LEU:HD21	3:D:1447:LEU:CD2	2.41	0.51
2:C:328:LEU:HD21	2:C:438:ILE:CD1	2.41	0.51
2:M:1001:VAL:O	2:M:1001:VAL:CG1	2.59	0.51
3:D:705:ALA:HB3	3:D:706:PRO:CD	2.35	0.51
2:H:470:PRO:HB2	2:H:534:VAL:HG21	1.93	0.51
1:G:59:GLU:CG	1:G:139:ASN:ND2	2.74	0.51
3:I:1140:ILE:CG2	3:I:1175:ILE:HD11	2.35	0.51
3:N:1426:LYS:HA	3:N:1429:LEU:HD22	1.92	0.51
3:D:1277:ILE:HD13	3:D:1301:LYS:CB	2.37	0.51
1:G:133:GLU:HG3	1:G:134:GLU:N	2.24	0.51
3:D:1189:ARG:HG3	3:D:1189:ARG:NH1	2.25	0.51
2:M:890:LEU:HD21	2:M:901:TYR:CG	2.46	0.51
3:D:1108:ARG:N	3:D:1108:ARG:HD3	2.25	0.51
2:H:367:LEU:HB3	2:H:371:LYS:HE3	1.92	0.51
3:I:1137:ARG:HH11	3:I:1137:ARG:HG3	1.76	0.51
3:I:1389:LEU:HD12	3:I:1390:LEU:CD2	2.41	0.51
3:N:1394:VAL:HG21	3:N:1432:LYS:NZ	2.26	0.51
2:M:806:LEU:HB2	2:M:822:VAL:HG22	1.91	0.51
2:H:191:PHE:HD2	2:H:195:LEU:HD23	1.75	0.51
3:D:1205:TYR:OH	3:D:1367:HIS:CE1	2.59	0.51
3:D:1332:PRO:HB2	3:D:1421:LEU:HD21	1.91	0.51
3:D:148:GLU:HB3	3:D:151:GLN:HB2	1.93	0.51
3:I:949:ILE:N	3:I:949:ILE:HD12	2.26	0.51
2:M:198:ARG:CZ	2:M:203:ASP:HA	2.41	0.51
2:C:1090:LYS:HA	2:C:1093:GLN:HG3	1.93	0.51
3:N:141:ILE:CG1	3:N:448:GLU:OE1	2.57	0.51
3:N:781:PRO:HB2	3:N:786:ILE:CD1	2.40	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:100:LEU:HD12	2:M:101:ILE:N	2.26	0.51
3:N:1221:VAL:O	3:N:1222:GLY:C	2.47	0.51
3:N:1256:LEU:HD12	3:N:1259:VAL:HB	1.92	0.51
3:I:521:PRO:CB	3:I:524:LEU:HD13	2.26	0.51
3:I:1021:TYR:CE2	3:I:1025:GLN:HG2	2.46	0.51
3:I:810:GLU:C	3:I:812:ALA:N	2.63	0.51
2:M:115:LEU:HD12	2:M:378:LEU:HD22	1.94	0.51
2:M:207:LEU:CD2	2:M:208:ALA:N	2.74	0.51
3:N:810:GLU:C	3:N:812:ALA:H	2.13	0.51
3:N:1434:TRP:CZ3	3:N:1455:LYS:O	2.64	0.51
2:H:263:ASP:C	2:H:264:PRO:O	2.48	0.51
3:D:590:PRO:HB2	3:D:600:LEU:CD1	2.41	0.51
3:D:93:ILE:HD13	3:D:548:ILE:CD1	2.41	0.51
7:Y:125:MET:O	7:Y:129:LEU:HG	2.10	0.51
3:I:1066:THR:HG22	3:I:1069:GLU:CG	2.40	0.51
2:M:1008:ARG:HH22	2:M:1011:GLY:CA	2.24	0.51
2:M:1013:TYR:CZ	2:M:1060:ILE:HD11	2.46	0.51
2:M:710:ILE:HD11	2:M:758:ARG:CD	2.41	0.51
1:A:56:VAL:CG1	1:A:142:VAL:HG12	2.38	0.51
1:A:41:ARG:O	1:A:45:LEU:HD13	2.11	0.51
2:M:680:ASP:O	3:N:939:PHE:HB3	2.11	0.51
1:F:91:ASN:HD22	1:F:93:SER:CB	2.24	0.51
3:D:1401:GLU:CD	3:D:1415:VAL:HG11	2.32	0.51
3:N:1114:THR:HG22	3:N:1195:GLN:HB3	1.92	0.51
1:B:19:GLU:HG3	1:B:201:THR:O	2.11	0.51
1:G:143:ARG:CZ	1:G:158:ILE:HD12	2.41	0.51
4:O:27:ALA:HB1	4:O:60:ALA:HB1	1.92	0.51
3:D:215:TYR:HE2	3:D:343:LYS:HB2	1.76	0.51
3:N:1383:ASP:HB2	3:N:1416:ALA:HB3	1.93	0.51
3:I:1146:GLY:CA	3:I:1207:TYR:HB2	2.41	0.50
2:C:197:LEU:HA	2:C:200:LEU:HD12	1.93	0.50
3:I:436:GLU:CD	3:I:447:VAL:HG22	2.31	0.50
3:N:481:MET:O	3:N:489:ARG:HB2	2.11	0.50
2:C:317:VAL:HG12	2:C:317:VAL:O	2.10	0.50
1:G:80:LEU:HD21	3:I:867:ARG:HB2	1.93	0.50
3:I:135:LEU:HD23	3:I:136:ASP:H	1.75	0.50
2:M:408:ARG:HH21	2:M:455:LEU:HD12	1.76	0.50
2:C:984:GLU:HG2	3:D:944:THR:O	2.11	0.50
2:M:281:LEU:O	2:M:282:GLY:C	2.49	0.50
2:C:235:LEU:HD11	2:C:298:PHE:HZ	1.75	0.50
3:D:720:LEU:CD1	3:D:720:LEU:N	2.74	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:185:ARG:CD	1:G:186:LEU:N	2.73	0.50
2:C:722:ILE:CD1	2:C:722:ILE:O	2.55	0.50
3:N:1422:MET:HE3	3:N:1426:LYS:HB3	1.92	0.50
1:F:87:VAL:CG2	1:F:144:VAL:HG11	2.38	0.50
3:D:1301:LYS:HG3	3:D:1303:TYR:CE1	2.46	0.50
3:I:1336:LEU:HA	3:I:1344:VAL:CG2	2.42	0.50
2:M:122:THR:HG22	2:M:124:ASP:H	1.76	0.50
1:L:156:HIS:CG	1:L:157:GLY:N	2.79	0.50
2:H:160:ALA:O	2:H:173:ASP:HA	2.11	0.50
2:C:878:SER:HB3	3:D:1029:ARG:HD3	1.93	0.50
2:C:554:ASP:HB2	2:C:880:MET:HB2	1.93	0.50
2:C:679:PHE:C	3:D:943:THR:CG2	2.80	0.50
3:N:396:VAL:HG21	3:N:445:ARG:HD3	1.94	0.50
2:H:495:THR:CG2	2:H:517:ARG:HH21	2.01	0.50
2:C:139:GLN:HB3	2:C:334:ARG:HG3	1.92	0.50
3:N:141:ILE:H	3:N:162:ARG:NH1	2.08	0.50
3:D:646:LYS:HG3	3:D:647:ARG:H	1.75	0.50
1:G:83:LYS:NZ	3:I:844:ALA:H	2.09	0.50
2:M:218:VAL:HG13	2:M:221:LEU:CD2	2.41	0.50
2:M:251:ASP:C	2:M:253:ALA:H	2.15	0.50
3:N:996:TRP:O	3:N:1000:THR:HG22	2.10	0.50
3:D:625:TYR:HB3	3:D:749:VAL:HG23	1.93	0.50
2:C:224:GLU:OE1	2:C:226:VAL:HG12	2.11	0.50
2:H:382:ILE:HD12	2:H:382:ILE:N	2.26	0.50
1:A:85:LEU:HA	1:A:124:ASN:ND2	2.26	0.50
3:D:572:ARG:O	3:D:573:MET:C	2.50	0.50
1:L:185:ARG:NH1	3:N:692:GLU:HB3	2.26	0.50
3:N:1422:MET:CE	3:N:1427:SER:HA	2.41	0.50
3:I:1235:GLN:CG	7:Y:37:MET:HE3	2.41	0.50
2:C:762:LYS:HG2	2:C:763:GLY:N	2.26	0.50
2:M:588:VAL:HG21	2:M:664:GLY:O	2.11	0.50
2:H:695:LEU:CD2	2:H:832:LYS:HD3	2.41	0.50
2:C:742:VAL:CG1	2:C:743:VAL:N	2.75	0.50
2:H:575:GLN:C	2:H:667:ALA:HB1	2.32	0.50
1:K:170:VAL:HG23	1:K:170:VAL:O	2.11	0.50
3:I:614:PHE:CD2	3:I:1438:ALA:HB1	2.47	0.50
2:C:882:LEU:CD1	3:D:1061:PHE:HB3	2.41	0.50
3:D:632:VAL:CG2	3:D:725:SER:CB	2.90	0.50
7:Z:127:LYS:HD3	7:Z:127:LYS:C	2.31	0.50
4:J:48:MET:HG3	4:J:49:GLN:N	2.26	0.50
1:K:89:PHE:HD1	1:K:89:PHE:N	2.08	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:260:LEU:HA	2:C:291:ALA:CB	2.41	0.50
2:C:328:LEU:CD1	2:C:328:LEU:N	2.74	0.50
3:I:603:LEU:HA	3:I:606:ILE:CG2	2.41	0.50
3:I:525:ARG:HB2	3:I:538:SER:HB3	1.92	0.50
2:C:794:PRO:CG	2:C:1025:ALA:HA	2.42	0.50
1:L:66:SER:OG	1:L:75:VAL:HG21	2.12	0.50
2:H:404:LEU:HA	2:H:407:LYS:CD	2.40	0.50
1:G:112:ARG:HB3	1:G:125:PRO:HB3	1.91	0.50
2:H:1097:LEU:HD12	3:I:1451:ALA:HB2	1.93	0.50
3:I:1053:PHE:CZ	3:I:1072:ILE:HD12	2.47	0.50
2:H:115:LEU:HB2	2:H:375:SER:HA	1.92	0.50
2:H:307:LEU:CD1	2:H:310:LEU:HD23	2.41	0.50
3:N:672:ALA:O	3:N:676:MET:HB2	2.12	0.50
3:N:584:ASN:HD21	3:N:590:PRO:HD2	1.75	0.50
1:F:127:LEU:HG	1:F:129:ILE:HD13	1.94	0.50
3:N:963:TYR:CD2	3:N:1002:LYS:HB3	2.47	0.50
1:B:133:GLU:HG3	1:B:134:GLU:N	2.26	0.50
2:H:668:LEU:H	2:H:668:LEU:HD12	1.76	0.50
3:I:202:VAL:O	3:I:395:VAL:HG13	2.12	0.50
2:M:293:PHE:HD1	2:M:293:PHE:C	2.14	0.50
3:N:65:ARG:HG3	3:N:66:GLN:H	1.76	0.50
2:H:42:VAL:HG12	2:H:268:ASP:OD2	2.10	0.50
3:D:1084:THR:HG22	3:D:1087:ARG:HH11	1.75	0.50
2:C:988:VAL:HG12	3:D:948:THR:OG1	2.10	0.50
4:O:45:ARG:HG2	4:O:46:PRO:CD	2.36	0.50
3:N:1380:GLU:HG2	3:N:1381:VAL:N	2.26	0.50
2:H:678:PRO:HG3	2:H:873:PRO:HD2	1.92	0.50
3:I:1026:SER:C	3:I:1028:ALA:N	2.63	0.50
2:M:112:GLU:O	2:M:112:GLU:HG2	2.12	0.50
2:M:64:LEU:CB	2:M:359:MET:HG3	2.41	0.50
2:M:839:LEU:N	2:M:839:LEU:CD2	2.70	0.50
3:N:1253:THR:CG2	3:N:1268:PRO:HB3	2.42	0.50
2:M:302:VAL:C	2:M:305:PRO:HD2	2.31	0.50
2:M:265:ARG:HG2	2:M:267:TYR:CG	2.46	0.50
2:H:1001:VAL:O	2:H:1004:LYS:N	2.29	0.50
2:C:224:GLU:HB3	2:C:228:ALA:N	2.26	0.50
3:I:1459:LEU:H	3:I:1459:LEU:HD12	1.76	0.50
3:D:614:PHE:CE2	3:D:1438:ALA:HB1	2.46	0.50
3:I:756:GLN:O	3:I:759:ALA:HB3	2.10	0.50
7:X:102:VAL:HG13	7:X:103:GLN:N	2.26	0.50
3:D:160:GLU:HG2	3:D:165:LYS:CG	2.42	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1272:ALA:CA	3:N:1326:THR:HB	2.41	0.50
2:C:854:PRO:O	2:C:855:VAL:C	2.50	0.50
1:F:182:GLU:OE1	1:F:194:LYS:HG2	2.10	0.50
3:D:202:VAL:O	3:D:395:VAL:HA	2.11	0.50
2:H:899:GLN:O	2:H:901:TYR:CE1	2.65	0.50
2:C:570:PRO:HD2	2:C:635:THR:CG2	2.37	0.50
3:D:997:THR:HG23	7:X:57:ARG:NH1	2.26	0.50
1:F:91:ASN:HD22	1:F:93:SER:HB3	1.77	0.50
3:D:1299:PHE:H	3:D:1299:PHE:HD2	1.59	0.50
2:C:1018:GLN:NE2	2:C:1018:GLN:HA	2.27	0.50
7:Z:99:ARG:HH11	7:Z:99:ARG:CG	2.24	0.50
7:Z:84:GLY:HA2	7:Z:130:LEU:HD11	1.93	0.50
3:N:1405:GLU:OE2	3:N:1411:GLY:O	2.29	0.50
3:N:1063:GLU:CD	3:N:1064:GLY:H	2.14	0.50
1:G:109:VAL:O	1:G:129:ILE:HG12	2.10	0.50
2:C:612:VAL:HG13	2:C:621:VAL:O	2.12	0.50
2:M:766:GLU:CD	3:N:37:LEU:HD21	2.31	0.50
2:H:267:TYR:CD2	2:H:267:TYR:N	2.80	0.50
2:H:282:GLY:O	2:H:283:ILE:CG1	2.30	0.50
2:H:425:PHE:CZ	3:I:1079:LYS:CE	2.94	0.50
2:C:455:LEU:HD12	2:C:456:ALA:O	2.11	0.50
2:C:302:VAL:HG13	2:C:303:PHE:N	2.27	0.50
3:I:411:THR:HG23	3:I:435:VAL:O	2.10	0.50
2:C:1032:PHE:HD2	2:C:1037:VAL:HG22	1.75	0.50
2:C:1037:VAL:O	2:C:1041:GLU:HG3	2.11	0.50
1:L:62:LEU:CD1	1:L:63:HIS:N	2.69	0.50
2:C:434:HIS:HB3	2:C:438:ILE:HB	1.94	0.50
2:C:437:ARG:CZ	2:C:488:ALA:HA	2.41	0.50
2:M:869:VAL:CG2	2:M:870:ILE:N	2.75	0.50
7:Z:34:GLN:O	7:Z:38:GLU:HG3	2.12	0.50
2:H:858:MET:CG	2:H:859:PRO:CD	2.89	0.50
2:M:1004:LYS:HG2	3:N:630:VAL:CG2	2.24	0.50
2:H:68:PHE:CD1	2:H:69:LEU:N	2.79	0.50
3:I:137:PRO:HG2	3:I:453:ASP:H	1.77	0.50
2:M:165:LEU:HA	2:M:166:PRO:O	2.12	0.50
3:D:465:LEU:HD11	3:D:509:PRO:O	2.11	0.50
2:C:182:VAL:O	2:C:193:LEU:CD1	2.60	0.50
3:D:481:MET:HE2	3:D:493:ARG:CA	2.38	0.50
3:N:1292:VAL:O	3:N:1303:TYR:HB2	2.12	0.50
3:I:654:LYS:HB3	3:I:655:PRO:CD	2.35	0.50
3:N:676:MET:SD	3:N:684:LYS:HE3	2.51	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:73:LEU:HD22	2:C:94:LEU:HB2	1.93	0.50
1:A:9:PRO:HD2	1:B:224:TYR:CE1	2.46	0.50
2:C:12:VAL:HB	2:C:472:ARG:HH11	1.75	0.50
2:C:293:PHE:H	2:C:293:PHE:HD1	1.54	0.50
2:H:75:GLU:OE1	2:H:75:GLU:HA	2.10	0.50
3:D:506:GLY:O	3:D:507:ASN:C	2.49	0.50
3:N:645:PRO:HG2	3:N:724:GLN:O	2.11	0.50
3:D:785:ILE:H	3:D:785:ILE:CD1	1.94	0.50
3:D:1101:VAL:CG1	3:D:1424:VAL:HG23	2.41	0.50
3:N:166:GLN:CD	3:N:394:LEU:HD12	2.32	0.50
3:I:433:GLY:CA	3:I:447:VAL:O	2.59	0.50
3:I:402:PRO:N	3:I:443:VAL:HG23	2.27	0.50
1:K:45:LEU:N	1:K:45:LEU:HD12	2.26	0.50
1:K:91:ASN:OD1	1:K:92:PRO:HD2	2.12	0.50
3:N:149:LYS:H	3:N:149:LYS:CE	2.25	0.50
2:C:110:GLU:OE1	2:C:112:GLU:O	2.29	0.50
2:C:54:ILE:O	2:C:54:ILE:CG2	2.59	0.50
3:I:957:PRO:CG	3:I:1007:VAL:HA	2.41	0.50
3:N:1353:GLN:HG2	3:N:1368:ILE:CD1	2.41	0.50
2:M:207:LEU:HD22	2:M:221:LEU:HD11	1.93	0.50
1:K:222:LEU:HD23	1:L:219:ARG:HB2	1.93	0.50
2:H:289:THR:C	2:H:291:ALA:N	2.64	0.50
3:I:1205:TYR:OH	3:I:1367:HIS:HE1	1.93	0.50
1:G:59:GLU:CG	1:G:139:ASN:HD22	2.20	0.50
3:I:143:ASN:CA	3:I:161:LEU:HD21	2.40	0.50
3:N:1097:LYS:O	3:N:1100:ASP:HB2	2.11	0.50
2:M:496:ILE:N	2:M:496:ILE:CD1	2.75	0.50
1:G:185:ARG:NH2	3:I:692:GLU:CB	2.72	0.50
1:G:186:LEU:HD23	1:G:186:LEU:O	2.11	0.50
3:D:982:PHE:HA	7:X:125:MET:HB3	1.92	0.50
3:N:683:ILE:HD13	3:N:688:TRP:CZ2	2.46	0.50
1:B:197:LEU:HD21	1:B:199:ILE:HD11	1.93	0.50
2:M:1019:GLN:OE1	3:N:621:LYS:HB3	2.11	0.50
3:N:695:ILE:HD11	3:N:718:PRO:CG	2.42	0.50
2:M:1074:GLU:HG2	2:M:1075:ASP:N	2.19	0.50
1:F:54:THR:HG22	1:F:158:ILE:CG1	2.39	0.50
3:I:1235:GLN:NE2	7:Y:37:MET:HE3	2.27	0.50
2:H:701:THR:HA	2:H:831:ARG:O	2.11	0.50
3:D:583:ASP:OD2	3:D:604:THR:HG21	2.11	0.50
1:L:176:ARG:HD2	1:L:200:TRP:CZ3	2.47	0.50
1:G:146:ARG:HG3	1:G:146:ARG:O	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:62:LEU:HD22	2:H:745:ILE:CG2	2.42	0.50
7:X:32:ILE:HG22	7:X:33:LEU:N	2.25	0.50
2:M:690:ILE:C	2:M:690:ILE:HD13	2.32	0.50
3:N:1394:VAL:HG12	3:N:1397:LYS:H	1.77	0.50
2:C:473:ARG:HA	2:C:531:PHE:CE1	2.47	0.50
3:D:1107:VAL:CG1	3:D:1217:ILE:HA	2.40	0.50
3:N:204:LEU:CD1	3:N:441:ARG:NH1	2.75	0.50
2:C:861:LEU:HA	2:C:974:LEU:HD12	1.93	0.50
3:D:52:PRO:O	3:D:86:ARG:HG3	2.12	0.50
3:N:462:GLN:HG3	3:N:513:ILE:HG12	1.93	0.50
2:C:274:ARG:CG	2:C:285:LEU:HD22	2.40	0.50
2:C:284:ARG:CG	2:C:285:LEU:N	2.75	0.50
3:I:581:LEU:CD2	3:I:581:LEU:N	2.73	0.50
2:C:115:LEU:HA	2:C:375:SER:HG	1.74	0.50
2:C:52:PHE:CZ	2:C:98:LEU:HB3	2.38	0.50
2:M:73:LEU:HB3	2:M:94:LEU:HA	1.93	0.50
3:N:102:ILE:HG23	3:N:103:TRP:N	2.25	0.50
2:M:943:VAL:HG13	2:M:944:LEU:N	2.24	0.50
2:H:260:LEU:HB2	2:H:291:ALA:HB1	1.93	0.50
3:D:481:MET:O	3:D:489:ARG:HB2	2.12	0.50
2:H:98:LEU:CD1	2:H:98:LEU:N	2.57	0.50
2:H:154:ARG:HH22	2:H:178:PRO:HD2	1.75	0.50
3:D:160:GLU:HG2	3:D:165:LYS:CB	2.41	0.50
1:A:110:LYS:HB2	1:A:112:ARG:HG2	1.93	0.50
2:H:839:LEU:HD21	2:H:849:VAL:HG23	1.94	0.50
2:C:597:ALA:HA	2:C:655:LEU:HD11	1.93	0.50
3:N:897:TRP:CZ3	3:N:902:LEU:HD21	2.46	0.50
1:F:102:LYS:CD	1:F:139:ASN:ND2	2.75	0.50
3:I:63:TYR:HB3	3:I:68:PHE:CD1	2.46	0.50
3:I:684:LYS:HB2	3:I:687:VAL:HG23	1.94	0.50
3:D:400:VAL:HG22	3:D:443:VAL:CG2	2.41	0.50
2:M:688:ILE:CD1	2:M:847:GLY:HA3	2.42	0.50
2:H:754:ILE:HG12	2:H:791:ARG:NH1	2.27	0.50
3:N:1061:PHE:HE1	3:N:1065:LEU:HD22	1.75	0.50
3:I:1324:PRO:HG3	3:I:1330:ILE:HD11	1.94	0.50
3:I:26:VAL:HB	3:I:93:ILE:HD11	1.93	0.50
3:N:1012:GLU:HG3	3:N:1012:GLU:O	2.12	0.50
2:H:140:ILE:C	2:H:140:ILE:HD12	2.32	0.50
2:H:140:ILE:HG23	2:H:410:ILE:HG23	1.94	0.50
2:H:332:ARG:HG3	2:H:464:LEU:O	2.12	0.50
3:I:1207:TYR:CE2	3:I:1212:ALA:O	2.65	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:411:THR:HG23	3:I:436:GLU:HA	1.94	0.50
3:I:206:ARG:NH2	3:I:441:ARG:NH2	2.59	0.50
3:D:1468:LEU:HD13	3:D:1470:ARG:HD3	1.94	0.50
2:C:1084:SER:CB	3:D:617:ASN:HD21	2.18	0.50
3:N:143:ASN:CA	3:N:161:LEU:HD21	2.22	0.50
3:N:786:ILE:HD13	3:N:911:LEU:HD22	1.93	0.50
3:I:784:ASP:CB	3:I:939:PHE:HE2	2.25	0.50
1:G:83:LYS:NZ	3:I:848:GLU:OE1	2.44	0.50
2:C:113:VAL:HG11	2:C:373:VAL:CG1	2.42	0.50
3:I:968:ASP:O	3:I:971:LEU:HB3	2.11	0.50
2:M:191:PHE:HD2	2:M:195:LEU:HD23	1.76	0.50
2:C:182:VAL:HG12	2:C:193:LEU:CD2	2.33	0.50
3:N:554:LEU:CD1	3:N:570:GLU:HB3	2.42	0.50
1:A:112:ARG:HH21	1:A:125:PRO:HB2	1.76	0.50
1:A:88:ARG:HH12	1:A:90:LEU:HD11	1.77	0.50
1:L:186:LEU:O	1:L:187:GLY:C	2.50	0.50
3:N:684:LYS:HB2	3:N:687:VAL:CG2	2.35	0.50
2:H:524:VAL:HG11	2:H:528:GLU:HB2	1.91	0.50
1:F:78:ILE:O	1:F:81:ASN:N	2.45	0.50
2:H:2:GLU:O	2:H:899:GLN:HB2	2.12	0.50
2:C:134:ARG:NH2	2:C:392:SER:O	2.44	0.50
1:G:41:ARG:HG3	1:G:177:VAL:HG23	1.94	0.50
2:M:137:VAL:HG22	2:M:391:LEU:O	2.12	0.50
3:N:572:ARG:O	3:N:573:MET:C	2.50	0.50
4:O:30:LEU:O	4:O:35:PHE:HA	2.12	0.50
2:C:1012:PRO:HD2	2:C:1026:GLN:HB2	1.94	0.50
2:M:1044:GLY:HA2	3:N:1475:GLY:CA	2.42	0.50
3:D:633:VAL:N	3:D:740:PHE:CE2	2.80	0.50
3:I:39:PRO:O	3:I:40:GLU:O	2.30	0.50
2:C:242:LEU:HD11	2:C:254:VAL:HG21	1.94	0.50
2:C:473:ARG:HA	2:C:531:PHE:CD1	2.47	0.50
3:D:1213:ARG:CB	3:D:1214:PRO:CD	2.90	0.50
2:C:1086:ARG:NH1	3:D:88:TYR:CZ	2.80	0.50
3:D:51:GLY:O	3:D:86:ARG:NE	2.45	0.50
2:C:282:GLY:O	2:C:283:ILE:CD1	2.60	0.50
2:H:684:PHE:CB	3:I:633:VAL:HG21	2.42	0.50
3:D:850:LEU:CD1	3:D:850:LEU:H	2.10	0.50
3:D:176:ASP:HB2	3:D:388:HIS:O	2.11	0.50
3:D:181:ASP:OD1	3:D:441:ARG:CZ	2.60	0.50
1:G:82:LEU:HD13	1:G:142:VAL:HG11	1.94	0.50
2:M:26:TYR:CE1	2:M:340:MET:HE3	2.47	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:195:LEU:HD12	2:M:195:LEU:C	2.32	0.50
2:M:304:LEU:CG	2:M:305:PRO:HD3	2.42	0.50
3:N:29:PRO:HD3	3:N:548:ILE:HG22	1.93	0.50
3:N:1452:ILE:CD1	3:N:1452:ILE:H	2.23	0.50
3:D:481:MET:HE2	3:D:493:ARG:HB2	1.94	0.50
3:D:956:ILE:HD11	3:D:1062:ARG:CB	2.42	0.50
3:I:456:MET:CE	3:I:568:ARG:HD3	2.42	0.50
3:N:1053:PHE:CE1	3:N:1072:ILE:HG23	2.47	0.50
2:H:224:GLU:OE1	2:H:226:VAL:CG1	2.60	0.50
7:X:119:ILE:HG13	7:X:125:MET:SD	2.51	0.50
7:X:125:MET:HA	7:X:140:LEU:CD1	2.42	0.50
3:N:1273:VAL:HG22	3:N:1326:THR:OG1	2.12	0.50
3:I:1066:THR:CG2	3:I:1069:GLU:HB2	2.42	0.50
3:I:1272:ALA:HA	3:I:1326:THR:HB	1.93	0.50
2:M:838:LYS:CD	2:M:846:LYS:HZ1	2.25	0.50
2:M:352:ALA:C	2:M:355:VAL:HG12	2.31	0.50
1:L:42:ARG:HG2	1:L:42:ARG:HH11	1.77	0.50
2:C:292:ARG:CB	2:C:299:LYS:HG2	2.42	0.50
7:Y:134:VAL:HG23	7:Y:154:ILE:CD1	2.41	0.50
2:M:1067:TYR:CE2	2:M:1071:ILE:HD11	2.46	0.50
2:M:997:LEU:O	2:M:999:HIS:N	2.39	0.50
4:J:40:LEU:HD21	4:J:67:GLU:HA	1.93	0.50
2:C:12:VAL:CB	2:C:472:ARG:HH11	2.25	0.50
2:C:216:GLU:CG	2:C:219:GLN:HE22	2.25	0.50
3:D:1040:GLY:O	3:D:1041:LEU:HB3	2.11	0.49
3:D:1057:VAL:HG13	3:D:1069:GLU:CG	2.41	0.49
3:I:1476:THR:CG2	4:J:21:VAL:HG22	2.42	0.49
2:C:1036:GLU:HG3	3:D:707:THR:OG1	2.12	0.49
2:C:139:GLN:O	2:C:333:ILE:HA	2.12	0.49
3:N:100:ALA:HB2	3:N:128:TYR:OH	2.12	0.49
3:N:142:LEU:HA	3:N:145:VAL:O	2.12	0.49
3:D:142:LEU:HD22	3:D:145:VAL:N	2.28	0.49
3:N:1330:ILE:HG22	3:N:1331:ASP:N	2.27	0.49
3:D:352:ASN:O	3:D:368:VAL:HG13	2.12	0.49
2:H:368:THR:CB	2:H:369:PRO:CD	2.89	0.49
2:C:66:LEU:HD13	2:C:372:LEU:HD23	1.95	0.49
1:B:124:ASN:CG	1:B:127:LEU:HD22	2.32	0.49
2:C:964:LYS:O	2:C:968:LEU:HG	2.12	0.49
1:A:156:HIS:ND1	1:A:158:ILE:HD11	2.26	0.49
2:M:140:ILE:HD13	2:M:331:ARG:HH21	1.77	0.49
1:K:184:THR:HG21	1:K:192:LEU:CD1	2.40	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:185:ARG:NH1	3:D:692:GLU:HB3	2.26	0.49
2:H:115:LEU:HA	2:H:375:SER:HB2	1.93	0.49
3:I:991:GLN:O	3:I:994:GLN:HB3	2.11	0.49
2:H:98:LEU:HD11	2:H:113:VAL:CG2	2.41	0.49
2:H:742:VAL:CG1	2:H:743:VAL:N	2.74	0.49
2:H:435:TYR:HA	3:I:1071:PHE:CE2	2.46	0.49
7:X:100:LEU:HD11	7:X:117:MET:CE	2.41	0.49
2:H:577:PRO:HG3	2:H:993:PHE:CE1	2.48	0.49
2:H:83:CYS:HB3	2:H:88:LEU:O	2.12	0.49
1:A:206:THR:HG22	1:A:209:GLU:CG	2.41	0.49
3:I:557:LEU:HD12	3:I:570:GLU:HG3	1.94	0.49
2:M:162:ILE:O	2:M:164:PRO:HD3	2.12	0.49
2:C:127:PHE:CE1	2:C:136:ILE:HD13	2.47	0.49
1:L:56:VAL:HG21	1:L:82:LEU:HD12	1.94	0.49
3:N:1197:ARG:CG	3:N:1198:TYR:H	2.24	0.49
7:Y:5:VAL:HG11	7:Y:72:ALA:HB2	1.94	0.49
2:C:150:PRO:HA	2:C:158:TYR:HB3	1.93	0.49
3:N:1403:LEU:HD22	3:N:1407:LEU:HD22	1.94	0.49
2:C:582:GLY:C	2:C:583:LEU:HD12	2.33	0.49
2:C:503:LEU:HD23	2:C:507:ARG:C	2.32	0.49
2:M:471:TYR:OH	2:M:491:GLU:CD	2.50	0.49
3:I:1086:LEU:HD12	3:I:1086:LEU:N	2.26	0.49
3:N:593:ASN:O	3:N:594:PRO:C	2.48	0.49
2:H:196:LEU:HD23	2:H:200:LEU:HD11	1.94	0.49
2:H:239:PHE:CZ	2:H:255:ALA:HB2	2.46	0.49
2:H:139:GLN:O	2:H:333:ILE:HA	2.13	0.49
3:D:1042:ARG:HH11	3:D:1042:ARG:HB2	1.75	0.49
7:Z:119:ILE:N	7:Z:119:ILE:HD13	2.27	0.49
3:D:1372:VAL:O	3:D:1375:MET:HB2	2.12	0.49
3:I:396:VAL:O	3:I:398:ALA:N	2.45	0.49
2:C:1086:ARG:NH1	3:D:88:TYR:CE1	2.77	0.49
3:D:1434:TRP:CZ3	3:D:1457:ASP:HB2	2.47	0.49
3:N:148:GLU:HB3	3:N:151:GLN:CG	2.42	0.49
2:C:274:ARG:HH11	2:C:274:ARG:HG2	1.76	0.49
2:C:274:ARG:HG3	2:C:285:LEU:HD22	1.94	0.49
3:N:1381:VAL:CG2	3:N:1391:GLU:HB2	2.41	0.49
3:N:477:LEU:HD22	3:N:492:ALA:CB	2.39	0.49
3:D:142:LEU:HD23	3:D:145:VAL:C	2.31	0.49
3:I:1231:GLU:CB	3:I:1232:PRO:CD	2.90	0.49
3:N:1262:LEU:HD21	3:N:1351:GLU:HG3	1.93	0.49
3:I:1101:VAL:HG23	3:I:1102:THR:HG23	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:956:ILE:HD12	3:D:956:ILE:N	2.27	0.49
2:H:540:PHE:CD2	2:H:540:PHE:N	2.77	0.49
3:I:465:LEU:HD22	3:I:510:GLU:N	2.28	0.49
3:N:409:VAL:HG12	3:N:410:SER:H	1.76	0.49
3:I:1380:GLU:HA	3:I:1391:GLU:O	2.13	0.49
2:H:293:PHE:C	2:H:293:PHE:HD1	2.13	0.49
7:Y:58:ILE:HG22	7:Y:59:GLU:N	2.27	0.49
4:O:3:GLU:OE1	4:O:3:GLU:HA	2.12	0.49
4:O:36:LYS:HA	4:O:36:LYS:HE2	1.93	0.49
3:I:765:SER:O	3:I:767:HIS:N	2.45	0.49
1:A:151:VAL:HB	1:A:169:ALA:HB3	1.94	0.49
1:B:143:ARG:HH11	1:B:158:ILE:CG2	2.25	0.49
3:I:1115:THR:CG2	3:I:1151:ARG:HH21	2.25	0.49
2:M:227:PHE:HD2	2:M:237:ARG:HE	1.60	0.49
2:M:839:LEU:H	2:M:839:LEU:HD23	1.73	0.49
2:C:100:LEU:HD12	2:C:101:ILE:N	2.27	0.49
3:N:847:ASP:O	3:N:851:LEU:HG	2.12	0.49
3:D:700:VAL:HG22	3:D:718:PRO:HG3	1.94	0.49
3:N:1443:THR:O	3:N:1447:LEU:HD13	2.12	0.49
2:H:358:ARG:NH2	2:H:374:ASN:HB3	2.27	0.49
3:N:1286:THR:CG2	3:N:1286:THR:O	2.41	0.49
2:H:254:VAL:HA	2:H:257:VAL:CG2	2.42	0.49
3:I:1366:LYS:O	3:I:1369:GLU:HB2	2.12	0.49
3:I:646:LYS:HG3	3:I:647:ARG:H	1.76	0.49
7:Y:123:SER:O	7:Y:127:LYS:N	2.40	0.49
3:D:795:VAL:CG2	3:D:879:ARG:NH1	2.75	0.49
2:H:904:PRO:CD	2:H:908:GLY:HA2	2.40	0.49
1:A:44:LEU:HD13	1:A:177:VAL:HG21	1.94	0.49
2:M:428:ARG:NH2	2:M:451:LEU:HD11	2.27	0.49
2:H:236:ILE:HD11	2:H:249:LYS:HZ3	1.75	0.49
4:O:67:GLU:C	4:O:73:LEU:HD11	2.33	0.49
1:A:21:GLY:HA3	1:A:207:PRO:HB3	1.95	0.49
1:A:22:GLU:HG2	1:A:198:ARG:HB3	1.94	0.49
2:H:690:ILE:CD1	2:H:694:LEU:HD12	2.42	0.49
2:M:997:LEU:C	2:M:999:HIS:N	2.65	0.49
3:N:1487:VAL:CG1	3:N:1488:ASP:N	2.75	0.49
2:H:300:ASP:O	2:H:302:VAL:N	2.45	0.49
2:C:661:SER:HA	2:C:665:PHE:O	2.12	0.49
7:Z:102:VAL:HG13	7:Z:103:GLN:N	2.28	0.49
3:D:1205:TYR:CE2	3:D:1215:VAL:HG21	2.47	0.49
3:D:1434:TRP:CE2	3:D:1435:LEU:HD12	2.47	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:796:ARG:HB2	3:I:828:LYS:HD2	1.95	0.49
3:I:829:VAL:CG1	3:I:830:ALA:N	2.75	0.49
3:N:1026:SER:C	3:N:1028:ALA:N	2.65	0.49
3:N:109:PRO:CB	3:N:494:LYS:HZ3	2.14	0.49
3:N:820:GLU:HG2	3:N:825:ALA:O	2.12	0.49
3:N:1364:HIS:ND1	3:N:1365:ASP:N	2.59	0.49
1:G:76:VAL:HB	3:I:872:ARG:CZ	2.42	0.49
3:I:1000:THR:HG23	3:I:1001:GLU:H	1.77	0.49
2:M:22:GLN:HB3	2:M:121:MET:HE1	1.93	0.49
2:C:603:VAL:HB	2:C:646:GLY:N	2.27	0.49
3:D:728:LEU:HD22	3:D:745:MET:SD	2.52	0.49
2:M:193:LEU:N	2:M:193:LEU:CD1	2.75	0.49
2:M:988:VAL:HG12	3:N:948:THR:OG1	2.11	0.49
3:D:486:ARG:HA	3:D:489:ARG:CD	2.43	0.49
3:I:1221:VAL:O	3:I:1222:GLY:C	2.50	0.49
3:I:1205:TYR:OH	3:I:1367:HIS:CE1	2.65	0.49
3:D:957:PRO:HG3	3:D:1007:VAL:HA	1.94	0.49
2:H:88:LEU:HD13	2:H:89:THR:N	2.27	0.49
2:C:41:ASN:O	2:C:41:ASN:ND2	2.46	0.49
1:G:198:ARG:HG3	1:G:200:TRP:CH2	2.47	0.49
2:H:327:HIS:CE1	2:H:489:THR:HA	2.47	0.49
2:M:78:PHE:CD1	2:M:78:PHE:N	2.80	0.49
3:D:1401:GLU:OE2	3:D:1415:VAL:HG21	2.11	0.49
4:O:33:HIS:CD2	4:O:89:MET:HG2	2.47	0.49
3:N:62:LYS:HB2	3:N:73:CYS:SG	2.53	0.49
2:M:292:ARG:HD2	2:M:299:LYS:CE	2.41	0.49
3:N:1123:PHE:CE2	3:N:1184:GLN:HG3	2.47	0.49
3:D:1086:LEU:HD12	3:D:1086:LEU:H	1.77	0.49
2:M:556:ASN:OD1	7:Z:46:SER:N	2.46	0.49
3:D:975:GLU:O	3:D:979:GLU:HG3	2.12	0.49
1:F:63:HIS:HB3	2:H:799:ILE:HG21	1.93	0.49
1:F:156:HIS:CD2	1:F:157:GLY:N	2.80	0.49
2:C:242:LEU:CD1	2:C:254:VAL:HG21	2.43	0.49
3:N:47:GLU:O	3:N:51:GLY:N	2.46	0.49
3:I:638:LYS:HA	3:I:932:ASP:OD1	2.12	0.49
3:I:407:VAL:HG12	3:I:408:GLU:N	2.28	0.49
1:K:73:GLU:HG2	1:K:77:GLU:HG2	1.95	0.49
3:D:1043:GLY:O	3:D:1057:VAL:N	2.38	0.49
7:Z:115:THR:HG1	7:Z:116:PRO:HD3	1.75	0.49
2:H:987:ILE:HD12	3:I:948:THR:CG2	2.43	0.49
2:C:863:ASP:O	2:C:865:THR:N	2.45	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:800:LYS:HG2	3:I:825:ALA:HA	1.94	0.49
3:I:820:GLU:CG	3:I:836:VAL:HG11	2.43	0.49
3:D:51:GLY:C	3:D:86:ARG:HD3	2.32	0.49
3:N:134:VAL:CG1	3:N:135:LEU:N	2.75	0.49
3:N:149:LYS:HE3	3:N:149:LYS:H	1.78	0.49
2:C:281:LEU:HD12	2:C:306:THR:HA	1.93	0.49
3:N:1105:ILE:HD12	3:N:1105:ILE:H	1.73	0.49
3:D:208:PRO:HG2	3:D:347:VAL:CG1	2.42	0.49
3:N:834:THR:HG22	3:N:838:ARG:NH1	2.25	0.49
2:H:794:PRO:HG2	2:H:1025:ALA:C	2.33	0.49
2:M:95:TYR:CD2	2:M:114:PHE:CB	2.96	0.49
2:M:174:LEU:HD21	2:M:184:MET:HG3	1.93	0.49
2:H:13:ILE:O	2:H:13:ILE:HG13	2.09	0.49
2:M:144:PRO:O	2:M:276:LYS:NZ	2.41	0.49
4:E:54:LEU:HG	4:E:58:PRO:CB	2.42	0.49
4:E:61:VAL:HG23	4:E:62:THR:N	2.28	0.49
2:C:389:SER:C	2:C:391:LEU:H	2.16	0.49
4:E:32:ARG:HG2	4:E:33:HIS:N	2.27	0.49
3:N:1047:LYS:HD2	3:N:1051:GLU:HG3	1.94	0.49
3:I:666:ILE:HG12	3:I:686:GLU:OE2	2.12	0.49
2:M:30:LEU:CD1	2:M:30:LEU:O	2.57	0.49
4:O:51:LEU:C	4:O:53:GLY:N	2.60	0.49
2:M:588:VAL:HG13	2:M:666:LEU:HB2	1.93	0.49
1:G:13:VAL:HG22	1:G:23:PHE:HD1	1.77	0.49
2:H:575:GLN:HE21	2:H:671:ASN:H	1.59	0.49
1:K:25:LEU:HD13	1:L:225:PHE:CE2	2.47	0.49
7:X:6:LYS:CD	7:X:75:LEU:HD11	2.42	0.49
2:C:428:ARG:CZ	2:C:451:LEU:HD11	2.43	0.49
1:G:206:THR:CG2	1:G:209:GLU:H	2.26	0.49
2:M:1063:ARG:NH2	3:N:625:TYR:OH	2.46	0.49
1:A:24:VAL:HG22	1:A:196:THR:CG2	2.43	0.49
3:D:546:ARG:HH11	3:D:546:ARG:CG	2.25	0.49
3:N:868:TYR:CE1	3:N:869:MET:HG3	2.48	0.49
3:N:122:GLU:O	3:N:126:VAL:HG23	2.11	0.49
2:C:631:SER:CB	2:C:637:LEU:HD11	2.43	0.49
3:I:730:PRO:HA	3:I:733:CYS:SG	2.52	0.49
1:B:122:ILE:HD12	1:B:122:ILE:N	2.27	0.49
2:C:610:ARG:HH11	2:C:610:ARG:HG3	1.78	0.49
3:I:409:VAL:HG12	3:I:410:SER:N	2.28	0.49
3:I:409:VAL:HG12	3:I:410:SER:H	1.78	0.49
3:D:1332:PRO:CB	3:D:1421:LEU:HD21	2.43	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:355:VAL:HG13	3:N:356:PRO:HD2	1.94	0.49
2:C:300:ASP:O	2:C:300:ASP:CG	2.50	0.49
3:I:785:ILE:HG22	3:I:789:LEU:CD1	2.43	0.49
2:C:673:LEU:HD23	2:C:674:VAL:N	2.26	0.49
3:D:40:GLU:OE1	3:D:40:GLU:HA	2.10	0.49
3:D:520:LEU:CD1	3:D:521:PRO:HD2	2.43	0.49
3:D:52:PRO:HG2	3:D:80:VAL:CG2	2.42	0.49
2:C:165:LEU:CB	2:C:265:ARG:NH1	2.76	0.49
4:O:47:LYS:CA	4:O:54:LEU:HB3	2.37	0.49
3:D:460:ALA:C	3:D:461:ILE:HD13	2.33	0.49
2:M:835:VAL:O	2:M:849:VAL:O	2.30	0.49
3:D:704:ARG:NH1	3:D:743:ASP:HB3	2.28	0.49
2:C:101:ILE:CD1	2:C:107:LEU:HB3	2.42	0.49
2:M:455:LEU:CD1	2:M:459:ALA:HB3	2.26	0.49
2:C:227:PHE:HD2	2:C:237:ARG:HD3	1.76	0.49
2:C:193:LEU:CD1	2:C:193:LEU:H	2.25	0.49
3:D:1311:LEU:HD23	3:D:1311:LEU:H	1.73	0.49
2:H:392:SER:C	2:H:393:GLN:HG3	2.32	0.49
3:I:1459:LEU:CD1	3:I:1459:LEU:H	2.25	0.49
3:I:1205:TYR:O	3:I:1366:LYS:HE2	2.12	0.49
3:I:715:ALA:HB3	3:I:764:LEU:HA	1.93	0.49
1:L:185:ARG:CZ	3:N:692:GLU:CG	2.89	0.49
3:D:387:LEU:H	3:D:387:LEU:CD1	2.21	0.49
1:K:62:LEU:HD23	1:K:163:ASN:HD21	1.73	0.49
2:M:339:LEU:HD22	2:M:385:PHE:HZ	1.77	0.49
1:B:26:GLU:CB	1:B:27:PRO:HA	2.36	0.49
3:I:434:ARG:HB2	3:I:449:SER:HB3	1.94	0.49
2:C:580:MET:SD	2:C:584:GLU:HG3	2.53	0.49
2:M:759:THR:HB	2:M:785:VAL:HG21	1.93	0.49
3:N:506:GLY:O	3:N:507:ASN:C	2.51	0.49
3:N:212:ARG:HB3	3:N:386:HIS:HB2	1.94	0.49
3:N:1132:LEU:CD1	3:N:1132:LEU:N	2.76	0.49
7:Z:99:ARG:HH11	7:Z:99:ARG:HG3	1.78	0.49
1:G:104:GLU:HA	1:G:136:GLY:O	2.13	0.49
3:I:149:LYS:H	3:I:149:LYS:CE	2.25	0.49
3:D:1065:LEU:HD23	3:D:1070:TYR:CD2	2.48	0.49
3:N:991:GLN:NE2	7:Z:111:ASN:OD1	2.46	0.49
3:D:51:GLY:O	3:D:86:ARG:CZ	2.60	0.49
3:N:1415:VAL:O	3:N:1417:TRP:CE3	2.66	0.49
2:H:677:MET:C	2:H:873:PRO:HD3	2.33	0.49
3:D:141:ILE:HG13	3:D:448:GLU:OE1	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:576:ALA:HB3	2:C:900:ARG:NH1	2.27	0.49
3:N:87:ARG:HD2	3:N:88:TYR:HE2	1.76	0.49
3:I:999:THR:CG2	3:I:1000:THR:N	2.74	0.49
2:M:616:GLU:CD	2:M:648:ARG:HH12	2.16	0.49
3:N:483:HIS:N	3:N:483:HIS:CD2	2.81	0.49
3:N:970:LYS:HE3	3:N:973:GLN:HE21	1.77	0.49
3:I:1426:LYS:O	3:I:1426:LYS:HG2	2.12	0.49
3:N:1147:ARG:HD2	3:N:1188:VAL:CG2	2.42	0.49
3:D:180:LYS:NZ	3:D:387:LEU:N	2.60	0.49
1:G:84:GLU:CB	1:G:127:LEU:HD21	2.43	0.49
1:F:26:GLU:HG2	1:F:27:PRO:HA	1.94	0.49
2:C:251:ASP:C	2:C:253:ALA:H	2.16	0.49
3:D:470:LEU:HD12	3:D:503:LEU:CD2	2.42	0.49
3:N:1112:CYS:SG	3:N:1112:CYS:O	2.70	0.49
3:D:1164:ARG:NH1	3:D:1170:ASP:OD1	2.45	0.49
3:D:24:GLY:HA3	3:D:49:ILE:HG12	1.94	0.49
1:F:62:LEU:HB3	2:H:746:GLY:HA3	1.95	0.49
1:K:65:PHE:CZ	2:M:799:ILE:HD12	2.47	0.49
1:A:7:LYS:HB2	1:A:186:LEU:HD22	1.94	0.49
3:I:1356:TYR:HB3	3:I:1361:VAL:HB	1.93	0.49
2:M:523:ILE:O	2:M:523:ILE:HG23	2.12	0.49
7:Y:57:ARG:NH2	7:Y:61:ARG:HD2	2.27	0.49
1:K:178:ALA:HB2	2:M:864:GLY:H	1.77	0.49
2:M:322:VAL:HG23	2:M:322:VAL:O	2.13	0.49
2:M:740:GLU:N	2:M:740:GLU:OE1	2.45	0.49
1:F:65:PHE:CD2	1:F:65:PHE:N	2.78	0.49
2:H:303:PHE:O	2:H:306:THR:OG1	2.26	0.49
2:C:556:ASN:OD1	7:X:45:ASP:HA	2.13	0.49
2:C:1019:GLN:NE2	3:D:621:LYS:HG3	2.27	0.49
2:C:1085:PHE:O	2:C:1089:VAL:HG23	2.13	0.49
3:D:1220:ALA:HB1	3:D:1223:ILE:HG12	1.93	0.49
1:K:48:ILE:HD13	1:K:210:ALA:HB1	1.95	0.49
2:C:165:LEU:HA	2:C:166:PRO:O	2.13	0.49
2:M:674:VAL:HB	2:M:869:VAL:HG13	1.93	0.49
3:N:783:ARG:NH1	7:Z:41:ASP:OD1	2.45	0.49
3:N:1484:THR:HG21	4:O:22:VAL:HG22	1.95	0.49
3:D:139:GLY:CA	3:D:162:ARG:NH2	2.75	0.49
3:D:840:LYS:HB3	3:D:841:TYR:CD2	2.47	0.49
3:I:84:ILE:HD12	3:I:88:TYR:CE1	2.47	0.49
3:D:354:VAL:HG12	3:D:354:VAL:O	2.12	0.49
3:I:29:PRO:HB2	3:I:545:ARG:HG3	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:886:LEU:CD2	3:D:951:ILE:HD12	2.43	0.49
2:C:548:PRO:CG	2:C:842:ARG:NH1	2.76	0.49
2:M:94:LEU:HD12	2:M:95:TYR:N	2.28	0.49
2:M:196:LEU:HD23	2:M:200:LEU:HD21	1.95	0.49
2:M:602:GLU:HG3	2:M:603:VAL:H	1.77	0.49
3:I:1171:VAL:O	3:I:1175:ILE:HG12	2.13	0.49
3:N:1282:ARG:O	3:N:1283:ILE:HD13	2.13	0.49
2:H:224:GLU:HB3	2:H:228:ALA:H	1.78	0.49
1:K:46:SER:HB3	2:M:856:GLU:CD	2.33	0.49
2:H:496:ILE:CD1	2:H:496:ILE:N	2.75	0.49
2:H:835:VAL:O	2:H:849:VAL:O	2.31	0.49
3:I:1397:LYS:HD2	3:I:1432:LYS:NZ	2.28	0.49
3:N:1377:LYS:HG2	3:N:1378:TYR:CE1	2.48	0.49
3:I:729:HIS:ND1	3:I:731:LEU:N	2.61	0.49
3:N:581:LEU:N	3:N:581:LEU:CD2	2.75	0.49
2:M:1042:ALA:CB	3:N:1227:GLN:HE22	2.26	0.49
2:H:73:LEU:O	2:H:73:LEU:HD12	2.13	0.49
2:M:751:PRO:HA	2:M:792:VAL:CG1	2.42	0.49
1:A:64:GLU:OE2	1:A:79:ILE:CD1	2.60	0.49
2:H:473:ARG:HG2	2:H:473:ARG:NH1	2.28	0.49
2:M:380:ALA:O	2:M:384:GLU:HB2	2.12	0.49
7:Z:21:ARG:NH1	7:Z:21:ARG:HG2	2.28	0.49
2:C:816:LYS:HB2	2:C:819:VAL:HG21	1.95	0.49
4:O:84:ARG:HH11	4:O:84:ARG:HG3	1.77	0.49
2:H:1044:GLY:HA2	3:I:1475:GLY:HA3	1.95	0.49
3:I:403:PHE:HB2	3:I:423:ASP:OD1	2.13	0.49
1:A:50:GLY:HA3	1:A:173:PRO:HG3	1.95	0.49
1:K:111:ALA:HA	1:K:129:ILE:HD11	1.95	0.49
1:B:186:LEU:O	1:B:187:GLY:C	2.51	0.49
2:H:288:ARG:HB2	2:H:288:ARG:CZ	2.43	0.49
2:C:564:MET:SD	2:C:846:LYS:HD2	2.53	0.49
3:D:1235:GLN:HG2	7:X:37:MET:HG2	1.95	0.49
3:D:1101:VAL:HG21	3:D:1424:VAL:HG23	1.94	0.49
3:D:1207:TYR:CE2	3:D:1214:PRO:N	2.81	0.49
3:D:814:ALA:O	3:D:818:ARG:HG3	2.13	0.49
3:I:835:SER:H	3:I:838:ARG:HD3	1.78	0.49
2:C:328:LEU:HD21	2:C:438:ILE:HD13	1.95	0.49
3:D:209:ARG:CB	3:D:389:GLU:HB2	2.43	0.49
2:C:65:VAL:HB	2:C:101:ILE:HB	1.93	0.49
2:C:199:VAL:HG21	2:C:238:LEU:CD1	2.38	0.49
2:C:195:LEU:HG	2:C:238:LEU:HG	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:328:LEU:N	2:H:433:THR:HG21	2.28	0.49
2:H:939:ARG:HG3	2:H:975:TYR:CE2	2.48	0.49
2:M:1014:SER:CB	2:M:1017:THR:O	2.58	0.49
7:Y:84:GLY:CA	7:Y:130:LEU:HD11	2.38	0.49
3:D:409:VAL:CG1	3:D:413:ASP:HB3	2.42	0.49
2:M:89:THR:HG21	2:M:383:ARG:HH22	1.77	0.49
3:I:584:ASN:HB2	3:I:602:SER:HB3	1.95	0.49
7:Z:89:VAL:HG12	7:Z:90:GLU:N	2.28	0.49
3:N:1041:LEU:HD23	3:N:1041:LEU:O	2.12	0.49
3:D:845:ASN:HB3	3:D:848:GLU:HG2	1.94	0.49
2:M:580:MET:SD	2:M:584:GLU:HG3	2.52	0.49
3:D:138:LYS:HD3	3:D:138:LYS:H	1.75	0.49
2:M:691:SER:O	2:M:692:GLU:C	2.51	0.49
2:M:997:LEU:N	2:M:997:LEU:HD22	2.27	0.49
1:B:184:THR:O	1:B:192:LEU:HB2	2.13	0.49
3:I:400:VAL:HG23	3:I:445:ARG:CG	2.39	0.49
3:D:521:PRO:C	3:D:525:ARG:HH11	2.16	0.49
2:C:260:LEU:HA	2:C:291:ALA:HB1	1.94	0.49
2:C:412:ALA:HB1	2:C:419:THR:HG21	1.95	0.49
3:D:141:ILE:HG13	3:D:448:GLU:OE2	2.13	0.49
3:D:1091:SER:OG	5:P:19:DC:P	2.71	0.49
2:M:242:LEU:C	2:M:244:PRO:CD	2.81	0.49
2:M:170:PRO:HG2	2:M:258:TYR:CE2	2.48	0.49
3:N:813:LEU:HD12	3:N:814:ALA:CA	2.42	0.49
2:M:275:TYR:CD2	2:M:276:LYS:HG3	2.48	0.49
2:C:205:GLU:HB3	2:C:209:ARG:HH12	1.78	0.49
3:D:104:PHE:HD1	3:D:512:MET:HG2	1.75	0.49
2:C:572:ILE:HG23	2:C:703:ILE:CD1	2.43	0.49
2:C:572:ILE:HG23	2:C:703:ILE:HD11	1.95	0.49
2:H:1092:LEU:HB3	2:H:1099:VAL:CG2	2.42	0.49
3:I:1465:ASN:ND2	3:I:1465:ASN:O	2.46	0.49
3:I:160:GLU:HG2	3:I:165:LYS:HG3	1.94	0.49
2:M:964:LYS:O	2:M:968:LEU:HG	2.13	0.49
3:D:550:ARG:HD3	3:D:573:MET:HB3	1.95	0.49
2:H:523:ILE:HD13	2:H:523:ILE:C	2.32	0.49
2:H:588:VAL:HG23	2:H:589:ARG:N	2.27	0.49
3:N:209:ARG:N	3:N:389:GLU:O	2.46	0.49
2:C:136:ILE:CD1	2:C:136:ILE:N	2.76	0.49
1:A:101:LEU:HD21	1:A:109:VAL:HG11	1.94	0.49
1:A:102:LYS:HE3	1:F:57:TYR:CE2	2.47	0.49
3:I:63:TYR:HD1	3:I:73:CYS:HG	1.61	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:661:SER:HA	2:M:665:PHE:O	2.13	0.49
2:H:39:ARG:HD2	2:H:39:ARG:N	2.25	0.49
2:C:1103:ASP:OD2	3:D:2:LYS:HG3	2.13	0.49
7:X:84:GLY:HA2	7:X:130:LEU:CD1	2.42	0.49
2:C:545:ASN:OD1	2:C:905:ILE:HG13	2.13	0.49
7:Y:134:VAL:N	7:Y:154:ILE:HD11	2.28	0.49
2:H:806:LEU:HD13	2:H:813:VAL:HG21	1.94	0.49
3:I:1488:ASP:O	3:I:1491:THR:N	2.38	0.49
2:H:474:VAL:HG22	2:H:474:VAL:O	2.12	0.49
1:F:156:HIS:CD2	1:F:157:GLY:H	2.30	0.49
3:N:176:ASP:CG	3:N:388:HIS:O	2.52	0.49
2:C:729:LEU:HG	2:C:729:LEU:O	2.12	0.49
3:N:1086:LEU:HD12	3:N:1086:LEU:N	2.28	0.49
1:K:107:LYS:HG2	1:K:108:GLU:N	2.28	0.49
3:I:626:SER:O	3:I:652:LEU:HD11	2.13	0.49
2:H:211:LEU:CD2	2:H:221:LEU:CD2	2.91	0.48
2:H:220:GLY:O	2:H:223:ASP:OD2	2.31	0.48
2:C:496:ILE:O	2:C:515:ALA:HB1	2.12	0.48
2:C:873:PRO:HB3	3:D:949:ILE:HD12	1.94	0.48
3:D:1031:ASN:HB3	3:D:1034:GLN:HG3	1.95	0.48
4:E:17:TYR:O	4:E:21:VAL:HG23	2.13	0.48
1:F:225:PHE:CD1	1:G:215:VAL:HG11	2.48	0.48
3:I:835:SER:N	3:I:838:ARG:HD3	2.28	0.48
3:N:984:THR:OG1	3:N:985:ASP:N	2.46	0.48
3:N:1330:ILE:HB	3:N:1347:TYR:CZ	2.48	0.48
3:D:433:GLY:HA3	3:D:446:VAL:HG12	1.95	0.48
2:M:1086:ARG:HH22	2:M:1111:ILE:C	2.15	0.48
2:C:546:LEU:C	2:C:581:THR:HG21	2.33	0.48
2:M:212:GLY:HA2	2:M:218:VAL:CG2	2.41	0.48
2:M:221:LEU:HD12	2:M:221:LEU:C	2.34	0.48
2:M:304:LEU:HG	2:M:305:PRO:HD3	1.95	0.48
3:I:1043:GLY:O	3:I:1057:VAL:N	2.37	0.48
2:C:238:LEU:O	2:C:241:LEU:HB3	2.13	0.48
3:N:1285:GLU:O	3:N:1286:THR:HB	2.12	0.48
2:C:1016:ILE:HG13	2:C:1017:THR:N	2.28	0.48
4:J:32:ARG:HB2	4:J:32:ARG:CZ	2.41	0.48
2:H:1075:ASP:OD1	4:J:28:GLN:HG2	2.12	0.48
1:G:185:ARG:NH1	3:I:692:GLU:HG3	2.28	0.48
2:H:515:ALA:C	2:H:516:ARG:HD3	2.33	0.48
2:M:1008:ARG:HG2	2:M:1008:ARG:HH11	1.77	0.48
3:N:368:VAL:HB	3:N:377:VAL:HB	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:111:ALA:HA	1:A:129:ILE:HD11	1.95	0.48
3:N:465:LEU:HD13	3:N:510:GLU:CA	2.43	0.48
1:G:23:PHE:CE2	1:G:199:ILE:HD13	2.48	0.48
2:C:498:GLN:NE2	2:C:498:GLN:HA	2.24	0.48
7:X:6:LYS:CG	7:X:75:LEU:HD11	2.43	0.48
2:C:545:ASN:HA	2:C:905:ILE:HD11	1.94	0.48
2:M:328:LEU:HD23	2:M:437:ARG:HD3	1.95	0.48
7:X:25:ARG:HB3	7:X:58:ILE:HD11	1.95	0.48
1:A:7:LYS:O	1:A:7:LYS:CD	2.60	0.48
3:I:1183:ILE:N	3:I:1183:ILE:HD12	2.28	0.48
2:H:398:THR:HG22	2:H:568:ALA:O	2.12	0.48
2:C:575:GLN:O	2:C:667:ALA:HB1	2.13	0.48
2:H:946:ARG:HB3	2:H:946:ARG:HH11	1.78	0.48
2:C:1031:ARG:HG2	2:C:1033:GLY:H	1.78	0.48
3:N:143:ASN:CA	3:N:161:LEU:CD2	2.83	0.48
2:C:1005:MET:HE3	3:D:724:GLN:O	2.12	0.48
3:N:909:ASN:HA	3:N:912:LYS:HB3	1.95	0.48
3:D:835:SER:N	3:D:838:ARG:CD	2.76	0.48
2:C:1001:VAL:O	2:C:1001:VAL:HG12	2.11	0.48
2:C:546:LEU:HD13	2:C:565:GLN:OE1	2.12	0.48
3:D:699:VAL:HA	3:D:718:PRO:HD3	1.94	0.48
2:H:1010:THR:O	2:H:1026:GLN:HG3	2.13	0.48
2:H:1097:LEU:HD21	3:I:10:ILE:HD13	1.95	0.48
2:H:292:ARG:CG	2:H:294:GLU:HG2	2.40	0.48
3:I:141:ILE:HG13	3:I:448:GLU:OE2	2.13	0.48
2:M:39:ARG:HG3	2:M:39:ARG:HH11	1.77	0.48
2:H:204:GLN:CD	2:H:228:ALA:HB1	2.34	0.48
2:C:720:GLU:OE1	2:C:758:ARG:NH1	2.46	0.48
1:F:99:LEU:CD2	1:F:144:VAL:HG21	2.43	0.48
2:C:483:VAL:CG1	2:C:484:VAL:N	2.76	0.48
2:H:142:ARG:NH1	2:H:147:TYR:HD1	2.11	0.48
1:K:24:VAL:HG13	1:K:196:THR:HG22	1.94	0.48
2:C:524:VAL:CG1	2:C:528:GLU:HB2	2.43	0.48
3:N:1200:VAL:CG2	3:N:1373:ARG:NH1	2.75	0.48
2:M:1005:MET:HE2	3:N:648:MET:CG	2.42	0.48
2:C:86:LYS:O	2:C:87:ASP:HB2	2.13	0.48
2:C:626:ARG:HB2	2:C:639:GLN:HE21	1.78	0.48
2:C:85:GLU:O	2:C:824:ARG:NH2	2.46	0.48
2:M:1050:GLN:HA	2:M:1050:GLN:OE1	2.12	0.48
2:H:721:ARG:HH11	2:H:721:ARG:HG3	1.77	0.48
1:G:60:ASP:OD1	1:G:60:ASP:N	2.44	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:676:ILE:HG23	2:C:988:VAL:HG13	1.91	0.48
3:D:1263:PHE:O	3:D:1424:VAL:HG12	2.14	0.48
3:D:1459:LEU:HD21	3:D:1468:LEU:HD12	1.94	0.48
2:C:973:VAL:HG12	2:C:974:LEU:N	2.27	0.48
3:I:799:LYS:O	3:I:826:PRO:HG2	2.14	0.48
3:N:984:THR:HG23	3:N:987:GLU:N	2.20	0.48
3:N:914:LEU:HD22	3:N:930:LEU:HD21	1.95	0.48
2:H:689:VAL:HG11	2:H:870:ILE:HD11	1.95	0.48
3:D:826:PRO:C	3:D:828:LYS:H	2.16	0.48
3:D:204:LEU:HG	3:D:394:LEU:HD21	1.95	0.48
3:D:925:GLU:HB3	4:E:2:ALA:HB3	1.95	0.48
2:M:184:MET:SD	2:M:191:PHE:HE1	2.36	0.48
2:M:207:LEU:HD23	2:M:208:ALA:N	2.28	0.48
2:C:693:GLU:OE1	2:C:696:LYS:HD2	2.14	0.48
2:C:699:PHE:C	2:C:700:TYR:HD1	2.16	0.48
2:H:384:GLU:O	2:H:388:ARG:HB2	2.13	0.48
2:H:263:ASP:O	2:H:264:PRO:O	2.31	0.48
3:D:1112:CYS:HB2	3:D:1195:GLN:OE1	2.13	0.48
3:N:1282:ARG:HH11	3:N:1282:ARG:HG2	1.78	0.48
1:G:188:GLN:N	1:G:188:GLN:HE21	2.03	0.48
2:M:394:PHE:CD1	2:M:632:ASN:ND2	2.82	0.48
7:Z:62:ILE:N	7:Z:62:ILE:HD12	2.27	0.48
2:C:220:GLY:O	2:C:223:ASP:OD2	2.31	0.48
2:M:810:ASP:OD1	2:M:813:VAL:CG1	2.61	0.48
2:M:1067:TYR:CD2	2:M:1071:ILE:HD11	2.48	0.48
3:D:1086:LEU:N	3:D:1086:LEU:CD1	2.76	0.48
2:M:805:ARG:CD	2:M:807:ARG:HG2	2.44	0.48
2:C:681:GLY:C	3:D:635:PRO:HG3	2.33	0.48
1:G:132:LEU:HD23	1:G:136:GLY:O	2.14	0.48
4:O:28:GLN:HB3	4:O:32:ARG:HH21	1.78	0.48
3:I:481:MET:O	3:I:489:ARG:HB2	2.14	0.48
2:H:206:THR:CG2	2:H:207:LEU:H	2.26	0.48
2:H:200:LEU:HD13	2:H:300:ASP:OD1	2.13	0.48
2:H:334:ARG:NH2	2:H:342:ASP:OD2	2.46	0.48
2:C:441:VAL:HG12	2:C:559:LEU:HA	1.94	0.48
3:D:1352:ILE:O	3:D:1355:VAL:HG23	2.13	0.48
3:I:875:THR:HG22	3:I:879:ARG:HG3	1.95	0.48
3:N:134:VAL:HG12	3:N:135:LEU:H	1.76	0.48
3:N:881:LEU:C	3:N:881:LEU:HD12	2.34	0.48
4:O:45:ARG:NH1	4:O:55:PHE:O	2.46	0.48
2:C:368:THR:O	2:C:372:LEU:HB2	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:52:PHE:CD1	2:C:52:PHE:O	2.65	0.48
2:C:52:PHE:CE1	2:C:66:LEU:HG	2.48	0.48
3:I:1098:LEU:HD21	3:I:1229:ILE:CG2	2.43	0.48
3:I:1111:ASP:CG	3:I:1203:LYS:HD2	2.34	0.48
2:M:193:LEU:H	2:M:193:LEU:HD12	1.78	0.48
3:D:511:TRP:CE3	3:D:511:TRP:N	2.81	0.48
3:D:109:PRO:HB3	3:D:494:LYS:HZ1	1.78	0.48
3:D:1387:SER:CB	3:D:1391:GLU:OE2	2.58	0.48
3:I:650:LEU:HD11	3:I:657:LEU:CD2	2.43	0.48
3:N:400:VAL:HG13	3:N:400:VAL:O	2.12	0.48
3:N:899:LEU:HD12	3:N:900:ILE:HG22	1.95	0.48
2:M:983:ILE:O	2:M:984:GLU:C	2.51	0.48
2:C:395:LYS:HG2	2:C:397:GLU:CG	2.41	0.48
3:D:759:ALA:O	3:D:763:MET:HB3	2.12	0.48
3:N:409:VAL:HG12	3:N:410:SER:O	2.13	0.48
2:C:1012:PRO:HD2	2:C:1026:GLN:CB	2.43	0.48
2:M:931:GLY:C	2:M:933:GLY:H	2.17	0.48
1:K:83:LYS:NZ	2:M:698:ASP:OD2	2.44	0.48
2:H:86:LYS:O	2:H:87:ASP:HB2	2.13	0.48
2:M:500:ASN:N	2:M:500:ASN:ND2	2.62	0.48
3:I:572:ARG:O	3:I:573:MET:C	2.52	0.48
3:D:41:ARG:O	3:D:46:ASP:HB2	2.12	0.48
3:D:214:GLU:O	3:D:383:GLY:HA2	2.13	0.48
7:Y:50:ALA:O	7:Y:51:ALA:C	2.51	0.48
2:H:195:LEU:HG	2:H:238:LEU:HG	1.94	0.48
3:D:791:TYR:CD2	3:D:945:SER:HB2	2.49	0.48
7:Z:111:ASN:HD21	7:Z:113:LEU:HD12	1.77	0.48
3:I:696:HIS:NE2	4:J:54:LEU:HD11	2.29	0.48
1:G:32:PHE:O	1:G:36:LEU:HG	2.13	0.48
2:H:861:LEU:CG	2:H:862:PRO:HD2	2.43	0.48
2:C:290:LEU:CD2	2:C:290:LEU:H	2.26	0.48
1:B:181:VAL:O	1:B:181:VAL:HG12	2.12	0.48
3:N:129:PHE:HE2	3:N:579:ASP:OD2	1.97	0.48
3:D:1119:SER:O	3:D:1121:PRO:HD3	2.13	0.48
3:N:804:LEU:HB3	3:N:831:GLY:HA2	1.96	0.48
2:H:678:PRO:CG	3:I:947:ILE:HD11	2.40	0.48
3:D:139:GLY:H	3:D:147:VAL:HG21	1.77	0.48
3:D:1091:SER:HB3	5:P:19:DC:O4'	2.13	0.48
1:G:80:LEU:HG	3:I:844:ALA:HA	1.94	0.48
3:I:100:ALA:CB	3:I:128:TYR:OH	2.60	0.48
3:I:1352:ILE:HG22	3:I:1353:GLN:N	2.27	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:603:VAL:HB	2:C:646:GLY:H	1.78	0.48
2:M:73:LEU:HD12	2:M:73:LEU:C	2.33	0.48
3:D:636:GLN:CG	3:D:637:LEU:N	2.77	0.48
1:B:226:SER:O	1:B:228:PRO:HD3	2.13	0.48
2:H:1097:LEU:HD12	3:I:1451:ALA:CB	2.44	0.48
3:I:185:VAL:CG2	3:I:189:GLN:NE2	2.75	0.48
1:B:185:ARG:NE	3:D:692:GLU:HG2	2.27	0.48
3:I:142:LEU:HD23	3:I:146:PRO:N	2.29	0.48
1:A:91:ASN:ND2	1:A:93:SER:CB	2.77	0.48
3:N:926:LYS:HE3	3:N:929:ARG:NH1	2.29	0.48
2:C:598:GLU:HB2	2:C:615:TYR:CZ	2.48	0.48
3:N:1377:LYS:HE2	3:N:1378:TYR:CE2	2.48	0.48
3:I:95:LEU:CD2	3:I:574:LEU:HD21	2.43	0.48
2:M:668:LEU:H	2:M:668:LEU:HD12	1.75	0.48
3:I:465:LEU:HD21	3:I:509:PRO:CB	2.41	0.48
2:H:480:THR:HG22	2:H:481:ASP:N	2.23	0.48
2:C:73:LEU:CB	2:C:93:PRO:O	2.61	0.48
1:F:171:PHE:O	1:F:173:PRO:HD3	2.14	0.48
3:I:1051:GLU:CG	3:I:1051:GLU:O	2.60	0.48
7:Z:6:LYS:HB2	7:Z:85:LEU:HD12	1.95	0.48
2:M:537:LYS:H	2:M:537:LYS:HD3	1.79	0.48
3:I:1340:GLY:O	3:I:1344:VAL:HG23	2.13	0.48
3:I:1356:TYR:N	3:I:1356:TYR:CD1	2.81	0.48
3:I:426:LYS:CE	3:I:427:VAL:HG23	2.44	0.48
2:C:523:ILE:HD13	2:C:523:ILE:C	2.33	0.48
1:L:91:ASN:HB2	1:L:92:PRO:HD2	1.94	0.48
2:C:975:TYR:HA	2:C:982:PRO:HA	1.94	0.48
3:N:434:ARG:HB3	3:N:447:VAL:HG23	1.96	0.48
1:A:38:ASN:HB3	1:A:39:PRO:HD3	1.96	0.48
1:K:44:LEU:HA	1:K:48:ILE:HD11	1.96	0.48
3:I:826:PRO:HD2	3:I:829:VAL:CG2	2.41	0.48
3:N:880:ILE:HG22	3:N:881:LEU:H	1.79	0.48
2:H:853:LEU:HD22	2:H:858:MET:HE2	1.96	0.48
3:I:1320:GLU:CG	3:I:1339:LYS:NZ	2.59	0.48
3:D:368:VAL:HB	3:D:377:VAL:HG21	1.95	0.48
3:D:176:ASP:HB2	3:D:388:HIS:HB3	1.94	0.48
3:N:521:PRO:C	3:N:525:ARG:HH11	2.17	0.48
2:M:304:LEU:HG	2:M:305:PRO:N	2.27	0.48
3:I:1036:ARG:O	3:I:1041:LEU:N	2.46	0.48
2:M:603:VAL:HG21	2:M:643:VAL:HG11	1.95	0.48
2:C:351:LEU:CD1	2:C:374:ASN:ND2	2.76	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:226:VAL:HG13	2:H:227:PHE:H	1.79	0.48
7:Y:10:ALA:O	7:Y:14:ARG:HG3	2.13	0.48
3:D:793:THR:O	3:D:879:ARG:NH1	2.46	0.48
1:F:161:ARG:HB2	1:F:161:ARG:NH1	2.28	0.48
1:K:32:PHE:CE2	1:L:43:ILE:CD1	2.96	0.48
1:F:94:LEU:HD11	1:F:119:ASP:OD2	2.13	0.48
2:H:627:ARG:O	2:H:638:ASP:CB	2.60	0.48
1:F:127:LEU:HD12	1:F:128:HIS:N	2.29	0.48
1:F:49:PRO:HA	1:F:148:VAL:HG22	1.94	0.48
3:N:1318:TYR:CD1	3:N:1319:VAL:N	2.81	0.48
2:H:1047:HIS:O	2:H:1051:GLU:HB2	2.13	0.48
2:M:188:LYS:CG	2:M:188:LYS:O	2.62	0.48
2:C:159:ILE:HD12	2:C:159:ILE:C	2.34	0.48
2:H:474:VAL:HG13	2:H:530:GLU:C	2.34	0.48
2:C:728:HIS:O	2:C:729:LEU:CD2	2.61	0.48
3:I:639:LEU:HD12	3:I:640:HIS:N	2.29	0.48
3:N:1284:GLU:HA	3:N:1284:GLU:OE1	2.13	0.48
2:M:18:LEU:HD13	2:M:590:ASP:OD2	2.13	0.48
3:I:1332:PRO:CB	3:I:1421:LEU:HD21	2.43	0.48
2:H:163:ILE:O	2:H:163:ILE:HG13	2.13	0.48
3:N:1084:THR:HG22	3:N:1087:ARG:HH22	1.78	0.48
2:C:170:PRO:CG	2:C:258:TYR:CE1	2.94	0.48
1:K:90:LEU:HD13	1:K:119:ASP:O	2.14	0.48
3:D:844:ALA:HB1	3:D:867:ARG:HH21	1.78	0.48
3:D:39:PRO:HG3	3:D:45:PHE:O	2.14	0.48
2:M:1049:LEU:HD23	3:N:1472:ILE:HD13	1.95	0.48
3:D:181:ASP:HA	3:D:205:TYR:CG	2.48	0.48
3:D:629:SER:OG	3:D:630:VAL:N	2.47	0.48
3:I:975:GLU:OE1	3:I:988:ARG:NH1	2.46	0.48
2:M:52:PHE:CD2	2:M:68:PHE:CB	2.93	0.48
2:M:863:ASP:OD2	2:M:865:THR:HG22	2.13	0.48
3:D:925:GLU:O	3:D:928:ALA:HB3	2.14	0.48
2:M:95:TYR:H	2:M:95:TYR:HD1	1.59	0.48
3:I:566:ILE:HG12	2:M:180:GLY:HA2	1.90	0.48
2:C:64:LEU:CG	2:C:359:MET:HG3	2.44	0.48
2:H:260:LEU:CD2	2:H:292:ARG:HH11	2.27	0.48
2:H:442:GLU:OE2	2:H:543:ASN:HB3	2.14	0.48
2:M:496:ILE:HG13	2:M:531:PHE:CB	2.44	0.48
3:N:1068:LEU:O	3:N:1072:ILE:HG12	2.14	0.48
3:D:581:LEU:H	3:D:581:LEU:HD23	1.77	0.48
2:M:722:ILE:C	2:M:722:ILE:HD13	2.34	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:897:TRP:CE3	3:N:902:LEU:HD21	2.49	0.48
1:A:208:LEU:HD23	1:A:212:ASN:OD1	2.13	0.48
1:A:102:LYS:CD	1:A:139:ASN:ND2	2.73	0.48
2:M:838:LYS:CD	2:M:846:LYS:NZ	2.76	0.48
2:M:853:LEU:HB2	2:M:858:MET:CE	2.44	0.48
2:M:339:LEU:CD1	2:M:391:LEU:HD13	2.43	0.48
1:B:102:LYS:HD2	1:B:139:ASN:ND2	2.28	0.48
2:H:627:ARG:HG3	2:H:628:PHE:H	1.78	0.48
3:D:400:VAL:CG2	3:D:443:VAL:HG21	2.42	0.48
1:L:58:ILE:HB	1:L:61:VAL:CG2	2.42	0.48
3:D:889:ALA:CB	3:D:930:LEU:HA	2.44	0.48
2:M:1005:MET:HE2	3:N:648:MET:SD	2.54	0.48
2:H:824:ARG:HH11	2:H:824:ARG:HG2	1.77	0.48
2:C:458:TYR:CD1	2:C:458:TYR:N	2.81	0.48
3:N:356:PRO:O	3:N:385:VAL:HG11	2.13	0.48
1:B:42:ARG:CG	1:B:42:ARG:HH11	2.20	0.48
3:D:1466:VAL:HG12	3:D:1467:ILE:N	2.29	0.48
3:N:133:ILE:CG2	3:N:134:VAL:N	2.77	0.48
3:N:1380:GLU:O	3:N:1417:TRP:HB2	2.13	0.48
3:D:208:PRO:HG3	3:D:353:VAL:CG1	2.43	0.48
3:I:957:PRO:HG3	3:I:1007:VAL:HA	1.95	0.48
2:M:98:LEU:CD2	2:M:113:VAL:HG21	2.33	0.48
2:M:73:LEU:CB	2:M:93:PRO:O	2.54	0.48
2:M:147:TYR:C	2:M:148:PHE:CD2	2.87	0.48
3:D:116:LEU:CD2	3:D:118:LEU:HG	2.26	0.48
2:M:276:LYS:O	2:M:280:LYS:HB2	2.14	0.48
1:L:80:LEU:HG	3:N:844:ALA:HB2	1.95	0.48
3:D:179:VAL:CG2	3:D:189:GLN:HE22	2.20	0.48
2:H:408:ARG:HH21	2:H:455:LEU:HD12	1.77	0.48
3:I:507:ASN:N	3:I:507:ASN:ND2	2.44	0.48
2:H:725:ASP:C	2:H:726:ILE:HD12	2.34	0.48
3:I:142:LEU:HD23	3:I:146:PRO:CA	2.44	0.48
1:F:22:GLU:HG2	1:F:198:ARG:HB3	1.94	0.48
2:H:997:LEU:C	2:H:999:HIS:N	2.67	0.48
3:D:875:THR:CG2	3:D:876:SER:N	2.77	0.48
2:M:270:GLY:HA2	2:M:274:ARG:HH11	1.79	0.48
3:D:894:LYS:O	3:D:898:GLU:HG3	2.13	0.48
1:A:56:VAL:O	1:A:164:ALA:HB1	2.14	0.48
2:M:389:SER:C	2:M:391:LEU:H	2.15	0.48
2:C:1045:ALA:HB1	2:C:1048:THR:HB	1.95	0.48
7:Y:115:THR:HB	7:Y:116:PRO:CD	2.43	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:524:VAL:CG1	2:C:525:SER:N	2.74	0.48
3:I:1288:GLU:O	3:I:1307:LYS:CG	2.61	0.48
3:N:212:ARG:N	3:N:386:HIS:O	2.43	0.48
7:Z:75:LEU:HD12	7:Z:75:LEU:N	2.28	0.48
3:I:52:PRO:HG2	3:I:80:VAL:HG13	1.95	0.48
4:O:75:PHE:CD2	4:O:75:PHE:N	2.82	0.48
3:I:1155:VAL:O	3:I:1182:GLU:OE2	2.31	0.48
3:I:890:VAL:HG12	3:I:926:LYS:HE2	1.96	0.48
3:I:556:LYS:O	3:I:560:GLN:HG3	2.14	0.48
2:C:31:GLN:NE2	2:C:71:TYR:OH	2.46	0.48
3:D:1383:ASP:HB2	3:D:1416:ALA:HB3	1.96	0.48
3:D:673:ALA:O	3:D:677:LEU:HG	2.14	0.48
3:N:1087:ARG:HG3	3:N:1088:THR:N	2.29	0.48
2:C:1096:ALA:HB2	3:D:101:HIS:CE1	2.49	0.48
3:I:835:SER:N	3:I:838:ARG:CD	2.76	0.48
3:I:843:PHE:CE1	3:I:864:VAL:HG11	2.46	0.48
3:I:914:LEU:CD2	3:I:930:LEU:HD21	2.43	0.48
3:D:30:GLU:HA	3:D:30:GLU:OE1	2.14	0.48
3:N:160:GLU:OE1	3:N:161:LEU:HD12	2.14	0.48
3:N:95:LEU:HD21	3:N:574:LEU:HD21	1.95	0.48
2:C:579:VAL:O	2:C:579:VAL:HG22	2.12	0.48
2:C:1004:LYS:CG	3:D:630:VAL:CG2	2.89	0.48
2:H:794:PRO:HG3	2:H:1025:ALA:HA	1.94	0.48
2:M:602:GLU:HG2	2:M:614:ARG:HH21	1.79	0.48
3:I:1369:GLU:O	3:I:1370:ILE:C	2.51	0.48
2:H:115:LEU:HD12	2:H:378:LEU:HB3	1.95	0.48
3:D:157:GLU:CD	3:D:157:GLU:N	2.66	0.48
1:A:88:ARG:C	1:A:120:VAL:HG23	2.33	0.48
2:M:724:ARG:HG3	2:M:737:LEU:HD22	1.95	0.48
3:D:680:GLN:O	3:D:680:GLN:HG2	2.14	0.48
3:N:699:VAL:HG22	3:N:756:GLN:OE1	2.13	0.48
3:N:701:LEU:HD21	3:N:763:MET:HE1	1.96	0.48
4:O:9:LEU:HD22	4:O:19:LEU:HD11	1.95	0.48
2:H:142:ARG:HE	2:H:325:ILE:HD12	1.77	0.48
2:M:838:LYS:O	2:M:838:LYS:HG3	2.13	0.48
1:F:131:THR:O	1:F:132:LEU:HD12	2.14	0.48
3:N:1223:ILE:O	3:N:1226:ALA:N	2.47	0.48
2:M:684:PHE:HD2	3:N:740:PHE:HE1	1.60	0.48
3:N:1036:ARG:O	3:N:1041:LEU:N	2.47	0.48
2:H:460:ARG:HG3	2:H:460:ARG:NH1	2.27	0.48
2:M:794:PRO:HG2	2:M:1025:ALA:CA	2.43	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:632:ASN:HB3	2:C:633:GLN:HE21	1.78	0.48
2:C:86:LYS:HD3	2:C:813:VAL:HB	1.96	0.48
2:H:994:ILE:HG22	2:H:995:MET:N	2.28	0.48
3:D:782:SER:N	3:D:785:ILE:HD13	2.27	0.48
3:N:185:VAL:HG21	3:N:203:ALA:CB	2.42	0.48
3:N:433:GLY:CA	3:N:447:VAL:O	2.62	0.48
1:B:80:LEU:HD23	3:D:867:ARG:HG3	1.96	0.48
2:M:1046:ALA:HB2	3:N:1476:THR:HB	1.96	0.48
2:M:949:LYS:HD3	3:N:796:ARG:HH22	1.74	0.48
3:D:829:VAL:CG1	3:D:830:ALA:N	2.77	0.48
3:D:181:ASP:OD1	3:D:181:ASP:C	2.52	0.48
2:M:994:ILE:HG22	2:M:995:MET:N	2.29	0.48
2:C:113:VAL:HG11	2:C:373:VAL:HG11	1.95	0.48
2:C:52:PHE:CE1	2:C:67:ASP:C	2.88	0.48
2:M:80:GLN:N	2:M:90:TYR:HE2	2.12	0.48
2:C:235:LEU:HD11	2:C:298:PHE:CZ	2.48	0.48
3:I:1256:LEU:N	3:I:1257:PRO:CD	2.77	0.48
2:H:431:HIS:HD2	2:H:433:THR:OG1	1.95	0.48
3:N:1108:ARG:NH1	3:N:1108:ARG:HG3	2.29	0.48
2:C:524:VAL:CG1	2:C:525:SER:H	2.26	0.48
3:N:963:TYR:CE2	3:N:1002:LYS:HB3	2.48	0.48
2:M:292:ARG:HG3	2:M:294:GLU:H	1.79	0.48
1:B:128:HIS:HE1	1:B:131:THR:HG23	1.78	0.48
2:M:350:ARG:O	2:M:353:ARG:HB3	2.13	0.48
2:M:548:PRO:HG2	2:M:842:ARG:CZ	2.44	0.48
3:I:401:TYR:OH	3:I:430:ASP:HB2	2.14	0.48
3:D:1087:ARG:NH2	7:X:43:TYR:OH	2.47	0.47
7:X:45:ASP:C	7:X:47:GLY:N	2.67	0.47
3:D:770:LEU:HD23	3:D:777:PRO:HA	1.96	0.47
2:C:1061:GLU:HG3	3:D:84:ILE:CD1	2.44	0.47
3:N:1024:ALA:HA	3:N:1029:ARG:O	2.14	0.47
2:H:843:HIS:CD2	2:H:884:GLN:CA	2.97	0.47
3:I:578:VAL:O	3:I:582:LEU:HG	2.14	0.47
3:N:1221:VAL:HG12	3:N:1370:ILE:HD13	1.94	0.47
3:N:1369:GLU:O	3:N:1370:ILE:C	2.52	0.47
3:N:1209:LEU:HD21	4:O:16:LYS:HZ1	1.79	0.47
3:N:171:LEU:HD21	3:N:192:ALA:CB	2.44	0.47
2:H:1041:GLU:CB	3:I:1223:ILE:CD1	2.92	0.47
2:M:939:ARG:HD3	2:M:982:PRO:HD3	1.96	0.47
1:A:156:HIS:CG	1:A:158:ILE:HD11	2.49	0.47
2:M:181:VAL:CG1	2:M:182:VAL:N	2.77	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:700:VAL:HG12	3:D:749:VAL:HG13	1.96	0.47
3:I:506:GLY:O	3:I:507:ASN:C	2.51	0.47
2:M:1052:MET:SD	3:N:623:VAL:HG11	2.54	0.47
1:F:64:GLU:HA	1:F:75:VAL:HG11	1.96	0.47
3:D:1114:THR:CG2	3:D:1114:THR:O	2.62	0.47
3:N:761:ILE:HD12	4:O:20:THR:HA	1.96	0.47
2:H:724:ARG:HG3	2:H:740:GLU:CA	2.36	0.47
3:N:1119:SER:O	3:N:1121:PRO:HD3	2.14	0.47
2:H:564:MET:HE1	2:H:846:LYS:HD2	1.96	0.47
3:N:209:ARG:HA	3:N:347:VAL:HB	1.96	0.47
3:I:877:PRO:O	3:I:880:ILE:HG22	2.14	0.47
2:M:445:GLU:HG3	2:M:560:MET:HE1	1.94	0.47
1:G:106:PRO:HG3	1:G:134:GLU:CD	2.35	0.47
2:M:630:ARG:CG	2:M:630:ARG:HH11	2.26	0.47
1:F:176:ARG:HB2	1:F:200:TRP:HE3	1.79	0.47
2:M:75:GLU:OE1	2:M:75:GLU:HA	2.14	0.47
3:I:593:ASN:O	3:I:594:PRO:C	2.50	0.47
2:H:600:ASP:OD1	2:H:650:ARG:HA	2.14	0.47
1:F:106:PRO:HG3	1:F:134:GLU:OE1	2.13	0.47
3:D:1066:THR:CG2	3:D:1069:GLU:H	2.26	0.47
2:C:250:ARG:HA	2:C:250:ARG:HD3	1.57	0.47
2:C:1095:LEU:HD11	2:C:1097:LEU:HD22	1.93	0.47
2:C:1095:LEU:O	2:C:1096:ALA:C	2.52	0.47
3:D:1452:ILE:H	3:D:1452:ILE:HD12	1.74	0.47
1:K:206:THR:OG1	1:K:207:PRO:HD2	2.14	0.47
3:N:1356:TYR:HB3	3:N:1361:VAL:HB	1.95	0.47
3:N:134:VAL:O	3:N:454:ALA:CB	2.60	0.47
3:N:879:ARG:O	3:N:882:PHE:HB3	2.14	0.47
2:H:546:LEU:C	2:H:581:THR:HG21	2.34	0.47
2:H:557:ARG:CD	2:H:879:ARG:HB3	2.39	0.47
3:D:794:GLN:OE1	3:D:794:GLN:HA	2.14	0.47
2:H:69:LEU:HB3	2:H:70:GLU:OE2	2.14	0.47
2:M:218:VAL:HG22	2:M:311:PHE:CE1	2.47	0.47
3:I:907:GLU:OE1	3:I:909:ASN:HB2	2.14	0.47
3:N:1025:GLN:HE21	3:N:1025:GLN:CA	2.26	0.47
2:M:1097:LEU:HD11	3:N:1451:ALA:CA	2.42	0.47
2:C:1075:ASP:OD1	4:E:28:GLN:HG2	2.13	0.47
3:I:1139:ASP:O	3:I:1142:ALA:HB3	2.14	0.47
3:I:141:ILE:CG1	3:I:448:GLU:CD	2.82	0.47
2:M:239:PHE:CZ	2:M:252:LYS:HB2	2.49	0.47
2:H:198:ARG:HD3	2:H:228:ALA:HA	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:976:GLN:O	3:N:980:MET:HG2	2.14	0.47
3:I:1065:LEU:HD21	3:I:1070:TYR:HA	1.96	0.47
2:M:277:ALA:O	2:M:278:GLU:C	2.52	0.47
3:I:516:ALA:O	3:I:518:PRO:HD3	2.14	0.47
3:D:1277:ILE:HD12	3:D:1277:ILE:N	2.29	0.47
2:H:893:ALA:HB2	2:H:918:LEU:HD12	1.94	0.47
2:H:142:ARG:NH1	2:H:147:TYR:CD1	2.82	0.47
2:H:147:TYR:C	2:H:148:PHE:CD2	2.88	0.47
2:C:447:ALA:O	2:C:448:ASN:CB	2.60	0.47
3:I:104:PHE:CD2	3:I:104:PHE:N	2.82	0.47
2:H:452:ILE:HD12	2:H:452:ILE:N	2.29	0.47
1:F:131:THR:C	1:F:132:LEU:HD12	2.34	0.47
2:M:1042:ALA:HB2	3:N:1227:GLN:HE22	1.78	0.47
3:I:811:GLU:O	3:I:815:ALA:CB	2.62	0.47
3:I:1274:ILE:HD12	3:I:1274:ILE:O	2.14	0.47
1:A:64:GLU:HA	1:A:75:VAL:HG11	1.96	0.47
7:Z:85:LEU:HA	7:Z:85:LEU:HD22	1.72	0.47
3:D:963:TYR:CE2	3:D:1002:LYS:HD3	2.50	0.47
3:I:198:ARG:NH1	3:I:198:ARG:HG3	2.27	0.47
3:I:474:GLU:O	3:I:478:LEU:HG	2.14	0.47
1:K:179:PHE:O	1:K:179:PHE:CD1	2.67	0.47
4:J:57:ASP:CG	4:J:57:ASP:O	2.52	0.47
3:I:1460:ILE:H	3:I:1460:ILE:HD13	1.79	0.47
2:C:948:GLU:HG2	2:C:955:PRO:HG3	1.96	0.47
2:H:972:VAL:HG22	2:H:989:VAL:HG22	1.96	0.47
1:B:153:ALA:HB2	1:B:168:ASP:OD1	2.13	0.47
1:L:96:THR:HB	1:L:145:ASP:OD2	2.15	0.47
2:H:415:PRO:HB2	2:H:418:LEU:CD1	2.44	0.47
2:H:971:LYS:HA	2:H:988:VAL:HA	1.96	0.47
1:K:20:TYR:O	1:K:207:PRO:HG2	2.15	0.47
3:I:603:LEU:C	3:I:606:ILE:HG22	2.34	0.47
2:C:352:ALA:CA	2:C:355:VAL:HG12	2.41	0.47
3:N:23:TYR:CE1	3:N:89:ARG:HG2	2.50	0.47
3:N:525:ARG:CG	3:N:525:ARG:O	2.62	0.47
2:M:408:ARG:NH2	2:M:455:LEU:CD1	2.75	0.47
3:D:639:LEU:CD1	3:D:640:HIS:N	2.78	0.47
3:I:1114:THR:CG2	3:I:1195:GLN:HB3	2.44	0.47
2:M:332:ARG:HD2	2:M:464:LEU:HG	1.97	0.47
2:M:332:ARG:HG3	2:M:465:GLY:HA3	1.95	0.47
2:M:1088:LEU:HD21	3:N:614:PHE:CE1	2.49	0.47
2:H:1092:LEU:O	2:H:1095:LEU:O	2.32	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:18:LEU:H	2:H:18:LEU:HD12	1.78	0.47
4:E:33:HIS:CD2	4:E:89:MET:HG2	2.50	0.47
3:N:970:LYS:O	3:N:973:GLN:CG	2.62	0.47
3:D:127:LEU:O	3:D:457:GLY:HA2	2.14	0.47
2:M:961:GLU:O	2:M:964:LYS:HB3	2.14	0.47
2:C:309:TYR:CE2	2:C:321:GLU:CB	2.97	0.47
1:G:186:LEU:O	1:G:187:GLY:C	2.52	0.47
3:D:550:ARG:NH1	3:D:573:MET:HB3	2.30	0.47
3:I:1305:LEU:HD12	3:I:1311:LEU:CD2	2.36	0.47
2:H:535:SER:OG	2:H:536:PRO:HD2	2.15	0.47
2:H:536:PRO:O	2:H:539:VAL:HG23	2.14	0.47
3:N:639:LEU:CD2	3:N:766:ALA:HA	2.43	0.47
3:N:415:VAL:CG1	3:N:416:ALA:N	2.77	0.47
3:N:1106:VAL:HG11	3:N:1474:ALA:HB2	1.97	0.47
3:I:1235:GLN:CB	7:Y:37:MET:HE3	2.44	0.47
1:A:139:ASN:ND2	1:F:59:GLU:OE1	2.46	0.47
3:D:470:LEU:N	3:D:470:LEU:HD23	2.29	0.47
3:N:361:VAL:HG13	3:N:379:ALA:CB	2.42	0.47
2:M:137:VAL:HG23	2:M:391:LEU:HG	1.96	0.47
3:D:475:LYS:HA	3:D:478:LEU:CG	2.42	0.47
3:D:669:ASN:HD21	3:D:671:LYS:HB2	1.79	0.47
2:C:73:LEU:C	2:C:73:LEU:HD12	2.35	0.47
2:H:500:ASN:ND2	2:H:500:ASN:H	2.11	0.47
3:D:1492:LEU:HD13	3:D:1492:LEU:C	2.33	0.47
1:K:25:LEU:CD2	1:K:28:LEU:HD11	2.44	0.47
2:M:216:GLU:HG3	2:M:217:LEU:N	2.30	0.47
2:H:45:GLN:O	2:H:48:PHE:CB	2.62	0.47
3:I:1488:ASP:N	3:I:1488:ASP:OD1	2.46	0.47
3:D:1256:LEU:O	3:D:1259:VAL:N	2.46	0.47
3:I:1389:LEU:CD1	3:I:1390:LEU:HD23	2.43	0.47
1:B:16:GLN:HE21	1:B:16:GLN:HA	1.79	0.47
2:H:674:VAL:HG12	2:H:990:GLY:O	2.15	0.47
2:C:1044:GLY:HA2	3:D:1475:GLY:HA3	1.96	0.47
3:D:407:VAL:HA	3:D:422:ALA:CB	2.44	0.47
2:H:250:ARG:CZ	2:H:250:ARG:HA	2.44	0.47
3:D:947:ILE:C	3:D:947:ILE:HD12	2.30	0.47
2:H:554:ASP:OD2	2:H:556:ASN:CG	2.53	0.47
3:I:783:ARG:NH1	7:Y:41:ASP:HB2	2.30	0.47
3:D:209:ARG:HB2	3:D:389:GLU:O	2.14	0.47
2:H:67:ASP:OD1	2:H:68:PHE:O	2.32	0.47
3:D:1089:ALA:C	3:D:1091:SER:H	2.18	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:76:VAL:HB	3:I:872:ARG:NH2	2.28	0.47
2:M:151:ASP:HB3	2:M:154:ARG:O	2.14	0.47
2:M:267:TYR:CG	2:M:272:ALA:CB	2.97	0.47
2:H:1012:PRO:HD3	2:H:1026:GLN:CB	2.44	0.47
3:D:758:GLU:HA	4:E:20:THR:CG2	2.43	0.47
4:E:33:HIS:HB2	4:E:37:ASN:OD1	2.14	0.47
2:M:1010:THR:HG22	2:M:1011:GLY:N	2.29	0.47
2:M:722:ILE:HG12	2:M:757:GLY:O	2.14	0.47
2:C:442:GLU:O	2:C:442:GLU:HG3	2.13	0.47
3:N:353:VAL:HG12	3:N:368:VAL:HG21	1.97	0.47
3:I:1084:THR:O	3:I:1088:THR:CB	2.59	0.47
1:F:102:LYS:HD2	1:F:139:ASN:ND2	2.30	0.47
3:D:657:LEU:O	3:D:661:MET:HG2	2.15	0.47
2:M:983:ILE:HG23	3:N:944:THR:HA	1.95	0.47
1:G:106:PRO:CG	1:G:134:GLU:OE1	2.63	0.47
1:K:39:PRO:CG	1:L:39:PRO:CG	2.90	0.47
1:G:177:VAL:HG12	1:G:199:ILE:HG23	1.96	0.47
3:I:1096:ARG:HG2	3:I:1096:ARG:HH11	1.79	0.47
4:J:41:GLU:N	4:J:42:PRO:HD3	2.29	0.47
1:B:56:VAL:CG1	1:B:57:TYR:H	2.27	0.47
3:D:1108:ARG:NH1	3:D:1108:ARG:HG3	2.27	0.47
2:C:36:PRO:CG	2:C:70:GLU:HG2	2.44	0.47
1:G:206:THR:HG22	1:G:209:GLU:HG3	1.96	0.47
3:D:1086:LEU:CD1	3:D:1086:LEU:H	2.27	0.47
2:C:492:ASP:HB3	2:C:518:LYS:HE2	1.96	0.47
2:M:435:TYR:CE1	2:M:539:VAL:HG22	2.47	0.47
3:N:130:SER:OG	3:N:131:LYS:N	2.47	0.47
2:H:507:ARG:HG3	2:H:508:ILE:H	1.79	0.47
1:B:153:ALA:HB2	1:B:168:ASP:N	2.29	0.47
7:X:139:SER:HB3	7:X:148:GLU:HG3	1.97	0.47
3:I:496:LEU:O	3:I:496:LEU:HD12	2.14	0.47
3:I:30:GLU:OE1	3:I:30:GLU:HA	2.15	0.47
3:D:1207:TYR:CZ	3:D:1213:ARG:HA	2.50	0.47
3:I:166:GLN:O	2:M:209:ARG:O	2.32	0.47
3:D:1103:HIS:CD2	3:D:1463:LYS:HE3	2.49	0.47
3:I:804:LEU:HD23	3:I:831:GLY:HA3	1.95	0.47
3:D:520:LEU:HG	3:D:521:PRO:N	2.28	0.47
3:D:834:THR:CA	3:D:838:ARG:HD3	2.44	0.47
3:D:850:LEU:HA	3:D:853:VAL:CG2	2.44	0.47
3:D:368:VAL:HB	3:D:377:VAL:HB	1.95	0.47
3:N:206:ARG:HG2	3:N:392:SER:N	2.23	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:113:VAL:HB	2:C:115:LEU:CD2	2.44	0.47
3:I:1095:THR:O	3:I:1099:VAL:CG2	2.59	0.47
3:N:857:ILE:HG22	3:N:858:VAL:HG13	1.97	0.47
3:N:999:THR:HG23	3:N:1000:THR:N	2.29	0.47
1:B:30:ARG:HH12	2:C:692:GLU:CD	2.18	0.47
2:C:689:VAL:HB	2:C:870:ILE:CG1	2.35	0.47
3:I:1205:TYR:CE1	3:I:1221:VAL:CG1	2.96	0.47
3:D:758:GLU:HA	4:E:20:THR:HG21	1.96	0.47
3:I:1280:VAL:O	3:I:1294:VAL:HA	2.15	0.47
2:M:1070:ILE:HG21	3:N:655:PRO:HB2	1.95	0.47
2:H:577:PRO:O	2:H:580:MET:HG2	2.14	0.47
3:I:1066:THR:HG23	3:I:1069:GLU:H	1.79	0.47
1:B:222:LEU:O	1:B:225:PHE:HD1	1.98	0.47
2:H:997:LEU:O	2:H:999:HIS:N	2.42	0.47
2:M:739:GLU:H	2:M:739:GLU:HG2	1.51	0.47
2:C:442:GLU:OE2	2:C:543:ASN:HB3	2.15	0.47
3:N:1106:VAL:CG1	3:N:1107:VAL:N	2.70	0.47
2:C:395:LYS:HD3	2:C:397:GLU:OE2	2.14	0.47
2:C:630:ARG:HG3	2:C:630:ARG:HH11	1.77	0.47
7:Z:7:LEU:HA	7:Z:109:GLU:OE2	2.14	0.47
3:I:1080:GLY:C	7:Y:49:GLU:HG3	2.35	0.47
1:L:199:ILE:HB	1:L:207:PRO:HB3	1.96	0.47
2:C:580:MET:HB3	2:C:584:GLU:CD	2.35	0.47
3:N:1313:VAL:HG21	3:N:1319:VAL:HG11	1.96	0.47
2:H:759:THR:HB	2:H:785:VAL:CG2	2.45	0.47
3:D:1256:LEU:O	3:D:1257:PRO:C	2.52	0.47
3:N:403:PHE:HE2	3:N:444:VAL:HG23	1.79	0.47
3:N:131:LYS:O	3:N:131:LYS:HG2	2.15	0.47
3:D:618:LEU:HG	3:D:619:LEU:HD23	1.96	0.47
7:Y:57:ARG:HG2	7:Y:57:ARG:HH21	1.78	0.47
3:D:635:PRO:O	3:D:935:LYS:HE3	2.15	0.47
3:I:765:SER:OG	3:I:766:ALA:N	2.45	0.47
2:C:953:VAL:O	2:C:955:PRO:HD3	2.14	0.47
2:M:109:LYS:O	2:M:111:ASP:OD1	2.33	0.47
4:E:38:THR:OG1	4:E:39:VAL:N	2.47	0.47
3:N:982:PHE:HB2	7:Z:125:MET:HE1	1.96	0.47
3:D:1211:MET:SD	3:D:1213:ARG:HG2	2.55	0.47
2:C:1033:GLY:O	2:C:1037:VAL:HG23	2.14	0.47
1:K:92:PRO:C	1:K:94:LEU:H	2.17	0.47
3:I:807:ALA:CB	3:I:833:GLU:OE1	2.62	0.47
2:C:338:GLU:CA	2:C:341:THR:HG22	2.44	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:145:VAL:HG22	3:N:146:PRO:CD	2.43	0.47
3:N:1037:GLN:HG2	3:N:1042:ARG:HB3	1.96	0.47
3:N:907:GLU:CG	3:N:908:LYS:N	2.78	0.47
2:H:557:ARG:HH21	2:H:879:ARG:HE	1.62	0.47
2:H:880:MET:CE	7:Y:46:SER:OG	2.63	0.47
2:M:64:LEU:HB2	2:M:359:MET:HG3	1.97	0.47
2:C:897:LEU:HD21	2:C:921:ALA:N	2.30	0.47
3:I:99:ALA:HA	3:I:575:GLN:HE22	1.79	0.47
2:M:26:TYR:HB2	2:M:121:MET:SD	2.54	0.47
3:D:765:SER:OG	3:D:766:ALA:N	2.45	0.47
2:M:184:MET:SD	2:M:303:PHE:HE2	2.36	0.47
3:N:1000:THR:CG2	3:N:1001:GLU:N	2.78	0.47
3:N:811:GLU:O	3:N:815:ALA:CB	2.63	0.47
2:C:205:GLU:CB	2:C:209:ARG:NH1	2.78	0.47
2:M:1092:LEU:HD21	3:N:1447:LEU:HD21	1.96	0.47
3:N:102:ILE:CG2	3:N:103:TRP:N	2.77	0.47
2:M:572:ILE:HG13	2:M:573:ARG:H	1.79	0.47
2:H:251:ASP:C	2:H:253:ALA:N	2.68	0.47
3:D:1380:GLU:HA	3:D:1391:GLU:O	2.14	0.47
1:F:20:TYR:O	1:F:207:PRO:HG2	2.15	0.47
1:L:177:VAL:HG23	1:L:177:VAL:O	2.13	0.47
1:A:88:ARG:HD3	1:A:123:MET:CE	2.45	0.47
3:N:658:LEU:O	3:N:661:MET:HB2	2.15	0.47
3:N:686:GLU:HG3	3:N:686:GLU:H	1.43	0.47
3:N:1119:SER:HA	3:N:1186:VAL:O	2.14	0.47
1:B:44:LEU:CA	1:B:48:ILE:HD13	2.44	0.47
3:N:405:ASP:HB3	3:N:406:ASP:H	1.58	0.47
3:N:1108:ARG:HA	3:N:1217:ILE:HG23	1.96	0.47
3:N:1197:ARG:HG3	3:N:1198:TYR:H	1.79	0.47
2:C:443:THR:OG1	2:C:450:GLY:N	2.39	0.47
7:Y:26:LEU:HD12	7:Y:55:LYS:HG3	1.97	0.47
3:N:54:LYS:HG3	3:N:55:ASP:N	2.30	0.47
3:I:26:VAL:HB	3:I:93:ILE:CD1	2.44	0.47
2:M:1098:ASP:N	3:N:11:ALA:O	2.22	0.47
2:H:165:LEU:HD12	2:H:167:LYS:N	2.30	0.47
2:H:207:LEU:HD22	2:H:221:LEU:HD13	1.97	0.47
2:H:332:ARG:CG	2:H:465:GLY:HA3	2.33	0.47
2:H:250:ARG:CA	2:H:250:ARG:CZ	2.92	0.47
2:C:575:GLN:C	2:C:667:ALA:HB1	2.35	0.47
3:D:947:ILE:O	3:D:948:THR:HG22	2.14	0.47
4:J:48:MET:HB2	4:J:54:LEU:HB2	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:J:54:LEU:HG	4:J:58:PRO:CB	2.42	0.47
3:N:355:VAL:HA	3:N:356:PRO:HD3	1.55	0.47
4:J:30:LEU:O	4:J:35:PHE:HA	2.14	0.47
2:C:1081:VAL:CG1	2:C:1085:PHE:HB3	2.39	0.47
3:D:28:LYS:HG3	3:D:30:GLU:HG2	1.96	0.47
2:C:165:LEU:O	2:C:265:ARG:NE	2.47	0.47
2:C:338:GLU:HA	2:C:341:THR:CG2	2.44	0.47
3:N:911:LEU:O	3:N:915:VAL:HG23	2.14	0.47
3:N:786:ILE:CD1	3:N:911:LEU:HD22	2.45	0.47
2:H:854:PRO:O	2:H:855:VAL:C	2.53	0.47
2:H:1086:ARG:NH2	2:H:1111:ILE:O	2.47	0.47
3:D:706:PRO:HG3	5:P:19:DC:O2	2.15	0.47
2:C:54:ILE:HD11	2:C:355:VAL:CG1	2.45	0.47
3:I:1094:LEU:O	3:I:1098:LEU:N	2.34	0.47
3:I:999:THR:O	3:I:1002:LYS:HB2	2.14	0.47
3:N:843:PHE:CD2	3:N:849:ALA:HA	2.50	0.47
3:N:847:ASP:HA	3:N:850:LEU:HD13	1.97	0.47
2:M:408:ARG:NH2	2:M:455:LEU:HD11	2.29	0.47
3:D:729:HIS:CE1	3:D:731:LEU:H	2.33	0.47
2:M:195:LEU:HD23	2:M:241:LEU:HD12	1.97	0.47
2:M:260:LEU:HA	2:M:291:ALA:CB	2.44	0.47
3:N:1055:VAL:HG12	3:N:1056:PRO:N	2.29	0.47
3:N:370:ALA:N	3:N:376:GLU:OE2	2.30	0.47
2:M:21:ILE:HD12	2:M:461:VAL:HG23	1.96	0.47
2:H:1004:LYS:CG	3:I:630:VAL:HG23	2.43	0.47
2:H:403:SER:OG	2:H:404:LEU:N	2.46	0.47
3:I:111:LYS:CE	3:I:1448:THR:HG22	2.38	0.47
2:M:701:THR:HA	2:M:831:ARG:O	2.14	0.47
2:H:254:VAL:CA	2:H:257:VAL:HG23	2.45	0.47
3:D:1195:GLN:HG3	3:D:1196:THR:N	2.30	0.47
1:F:198:ARG:C	1:F:199:ILE:HD13	2.35	0.47
2:M:239:PHE:HZ	2:M:252:LYS:HB2	1.80	0.47
3:N:1305:LEU:N	3:N:1305:LEU:HD23	2.30	0.47
1:G:185:ARG:NH2	3:I:692:GLU:HB3	2.27	0.47
2:M:854:PRO:O	2:M:855:VAL:C	2.53	0.47
2:H:582:GLY:N	2:H:584:GLU:OE2	2.38	0.47
2:H:588:VAL:CG2	2:H:589:ARG:N	2.77	0.47
3:N:701:LEU:CD1	3:N:750:PRO:HD3	2.44	0.47
3:N:700:VAL:HG13	3:N:718:PRO:CG	2.44	0.47
3:D:413:ASP:O	3:D:435:VAL:HG23	2.15	0.47
1:G:188:GLN:NE2	1:G:188:GLN:H	2.03	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:903:SER:OG	2:H:908:GLY:CA	2.58	0.47
2:H:148:PHE:CE1	2:H:309:TYR:HD2	2.32	0.47
1:F:167:VAL:HG12	1:F:168:ASP:N	2.30	0.47
7:Y:5:VAL:HG12	7:Y:72:ALA:HB1	1.96	0.47
2:C:1103:ASP:CG	3:D:2:LYS:HA	2.35	0.47
2:C:876:VAL:N	2:C:877:PRO:CD	2.76	0.47
2:H:587:VAL:CG1	2:H:666:LEU:HD22	2.44	0.47
2:M:216:GLU:HB2	2:M:219:GLN:HE22	1.80	0.47
1:B:101:LEU:O	1:B:101:LEU:HD23	2.14	0.47
2:H:473:ARG:HG3	2:H:474:VAL:N	2.29	0.47
3:I:53:ILE:HG13	3:I:86:ARG:HH12	1.78	0.47
3:N:54:LYS:HG3	3:N:55:ASP:H	1.80	0.47
2:C:672:VAL:CG2	2:C:869:VAL:CG1	2.93	0.47
1:K:50:GLY:O	1:K:146:ARG:HA	2.15	0.47
1:B:138:LEU:C	1:B:138:LEU:HD23	2.35	0.47
3:D:1014:ASN:C	3:D:1016:PRO:HD3	2.34	0.47
2:H:105:THR:HG23	2:H:105:THR:O	2.14	0.47
3:D:651:GLU:HA	3:D:651:GLU:OE1	2.14	0.47
2:M:479:VAL:HG23	2:M:479:VAL:O	2.15	0.47
2:H:334:ARG:CA	2:H:338:GLU:OE2	2.59	0.47
3:D:1101:VAL:CG2	3:D:1424:VAL:HG23	2.45	0.47
3:I:1476:THR:HG23	4:J:21:VAL:HG22	1.97	0.47
3:D:1434:TRP:CE3	3:D:1457:ASP:HB2	2.49	0.47
3:I:841:TYR:HB3	3:I:843:PHE:HE1	1.80	0.47
3:D:52:PRO:HB2	3:D:80:VAL:CG1	2.27	0.47
3:N:167:GLU:HB3	3:N:169:TYR:CE1	2.49	0.47
2:H:554:ASP:HB2	3:I:1061:PHE:CE2	2.49	0.47
2:C:708:TYR:CE2	2:C:793:PRO:CD	2.98	0.47
2:M:197:LEU:CD2	2:M:202:TYR:HD2	2.28	0.47
2:M:302:VAL:HG13	2:M:303:PHE:H	1.80	0.47
1:L:76:VAL:O	1:L:80:LEU:HB2	2.14	0.47
2:C:224:GLU:OE1	2:C:226:VAL:HG13	2.15	0.47
2:H:1008:ARG:NH1	2:H:1010:THR:HA	2.29	0.47
2:C:56:GLU:HB3	2:C:359:MET:SD	2.55	0.47
3:D:590:PRO:O	3:D:600:LEU:HD12	2.14	0.47
7:Y:102:VAL:HG21	7:Y:119:ILE:HD11	1.96	0.47
2:H:848:VAL:HG12	2:H:849:VAL:N	2.30	0.47
1:A:177:VAL:CG2	1:A:199:ILE:HG23	2.38	0.47
3:D:988:ARG:O	3:D:992:ILE:HG13	2.14	0.47
1:F:57:TYR:O	1:F:140:MET:CB	2.63	0.47
3:D:1286:THR:O	3:D:1287:GLU:CG	2.61	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:221:LEU:CD1	2:C:222:MET:N	2.75	0.47
2:M:875:GLY:CA	2:M:879:ARG:NH1	2.78	0.47
2:M:881:ASN:O	2:M:884:GLN:HG3	2.14	0.47
3:N:633:VAL:O	3:N:635:PRO:HD3	2.14	0.47
3:N:1041:LEU:HD12	3:N:1058:ARG:C	2.35	0.47
2:H:690:ILE:CG2	2:H:852:ILE:HG12	2.44	0.47
2:C:606:VAL:CG2	2:C:645:VAL:HG22	2.45	0.47
2:C:242:LEU:HD11	2:C:254:VAL:HG11	1.96	0.47
2:M:18:LEU:HD13	2:M:590:ASP:CG	2.35	0.47
3:N:1382:THR:HG23	3:N:1418:LYS:HE3	1.97	0.47
2:M:434:HIS:HB3	2:M:438:ILE:HB	1.97	0.47
3:I:1383:ASP:HB2	3:I:1416:ALA:HB3	1.96	0.47
2:C:266:ARG:HA	2:C:288:ARG:HD3	1.96	0.47
2:H:277:ALA:O	2:H:278:GLU:C	2.52	0.47
3:I:882:PHE:O	3:I:886:VAL:HG23	2.15	0.47
2:M:689:VAL:CB	2:M:870:ILE:HG12	2.21	0.47
3:N:643:GLY:N	3:N:727:GLN:O	2.48	0.47
2:H:688:ILE:N	2:H:688:ILE:HD12	2.29	0.47
3:D:820:GLU:CD	3:D:820:GLU:C	2.74	0.47
2:M:101:ILE:CD1	2:M:107:LEU:HD22	2.45	0.47
2:H:1082:PRO:C	2:H:1084:SER:H	2.16	0.47
3:I:613:ARG:NH1	3:I:616:GLN:HG2	2.30	0.47
3:D:1089:ALA:C	3:D:1091:SER:N	2.66	0.47
3:D:706:PRO:CG	6:Q:10:G:N2	2.77	0.47
2:M:300:ASP:O	2:M:302:VAL:N	2.47	0.47
3:I:165:LYS:HE2	3:I:167:GLU:OE1	2.15	0.47
3:N:1096:ARG:HG3	3:N:1097:LYS:N	2.30	0.47
3:I:642:CYS:HB3	3:I:716:PHE:HB3	1.92	0.47
3:D:554:LEU:HD13	3:D:570:GLU:HB3	1.96	0.47
2:C:759:THR:HB	2:C:785:VAL:HG21	1.97	0.47
2:H:573:ARG:HB2	2:H:670:GLN:NE2	2.30	0.47
2:M:875:GLY:HA2	2:M:879:ARG:HH12	1.80	0.47
2:C:630:ARG:HD2	2:C:634:GLY:HA2	1.97	0.47
3:D:1080:GLY:HA3	7:X:49:GLU:HG3	1.94	0.47
3:D:660:LYS:NZ	3:D:660:LYS:HA	2.28	0.47
7:Y:96:SER:OG	7:Y:98:GLU:HB2	2.14	0.47
3:I:1177:ALA:HB1	3:I:1183:ILE:HD11	1.95	0.47
2:M:589:ARG:HA	2:M:596:TYR:OH	2.15	0.47
7:Y:146:ARG:HE	7:Y:146:ARG:HB3	1.45	0.47
2:C:322:VAL:HG23	2:C:322:VAL:O	2.14	0.47
3:N:407:VAL:HA	3:N:422:ALA:CB	2.45	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:143:SER:O	2:H:144:PRO:C	2.53	0.47
2:H:159:ILE:C	2:H:159:ILE:HD12	2.34	0.47
3:N:978:TYR:N	3:N:983:LEU:HD21	2.30	0.47
7:Z:115:THR:CB	7:Z:116:PRO:CD	2.93	0.47
3:D:1330:ILE:HG22	3:D:1331:ASP:N	2.30	0.47
2:C:274:ARG:HD2	2:C:285:LEU:HD21	1.96	0.47
2:C:277:ALA:O	2:C:278:GLU:C	2.53	0.47
2:H:872:ASN:OD1	2:H:873:PRO:HD2	2.15	0.47
2:M:101:ILE:HG22	2:M:102:HIS:N	2.30	0.47
3:N:1105:ILE:CD1	3:N:1105:ILE:H	2.28	0.47
3:D:393:ILE:N	3:D:393:ILE:HD12	2.30	0.47
2:C:101:ILE:HG22	2:C:102:HIS:N	2.31	0.47
3:I:1110:ALA:O	3:I:1112:CYS:N	2.48	0.47
2:M:206:THR:HG23	2:M:207:LEU:H	1.80	0.47
2:M:207:LEU:HD21	2:M:221:LEU:CD2	2.45	0.47
2:M:263:ASP:HB2	2:M:264:PRO:HD3	1.96	0.47
2:M:235:LEU:HD11	2:M:298:PHE:CE1	2.50	0.47
3:I:630:VAL:CG1	3:I:631:ILE:N	2.78	0.47
4:E:51:LEU:HD12	4:E:53:GLY:H	1.80	0.47
3:D:680:GLN:O	3:D:683:ILE:HG13	2.15	0.47
2:C:207:LEU:HD23	2:C:211:LEU:HD23	1.96	0.47
2:C:211:LEU:O	2:C:211:LEU:HD12	2.15	0.47
3:D:1026:SER:C	3:D:1028:ALA:N	2.68	0.47
2:M:559:LEU:CD2	2:M:559:LEU:C	2.84	0.47
2:M:559:LEU:HD23	2:M:560:MET:N	2.30	0.47
3:I:508:ARG:HB3	3:I:509:PRO:HD2	1.96	0.47
3:D:102:ILE:O	3:D:102:ILE:HD13	2.14	0.47
4:J:41:GLU:CD	4:J:41:GLU:H	2.18	0.47
3:D:1197:ARG:HG3	3:D:1198:TYR:H	1.78	0.47
7:Z:6:LYS:CD	7:Z:75:LEU:HD13	2.45	0.47
3:I:1487:VAL:CG1	3:I:1488:ASP:N	2.78	0.47
1:G:91:ASN:N	1:G:91:ASN:ND2	2.63	0.47
3:I:1384:PRO:HB3	3:I:1387:SER:O	2.15	0.47
2:C:512:ARG:HD3	2:C:523:ILE:HG13	1.96	0.47
3:I:652:LEU:HA	3:I:652:LEU:HD12	1.74	0.47
1:L:7:LYS:HE3	1:L:7:LYS:O	2.15	0.47
2:M:1024:LYS:HA	2:M:1024:LYS:HD2	1.53	0.47
3:N:38:LYS:HE2	3:N:38:LYS:HB3	1.57	0.47
2:H:250:ARG:HD2	7:Z:80:GLY:HA2	1.97	0.46
3:D:939:PHE:O	3:D:943:THR:HG23	2.13	0.46
1:G:221:HIS:HA	1:G:224:TYR:CD2	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:198:ARG:NH2	2:M:203:ASP:OD2	2.48	0.46
3:N:1099:VAL:HG12	3:N:1103:HIS:HB3	1.97	0.46
3:N:1232:PRO:HB2	3:N:1356:TYR:CE2	2.47	0.46
2:C:274:ARG:NH1	2:C:274:ARG:HG2	2.30	0.46
7:Z:30:THR:O	7:Z:31:LYS:C	2.53	0.46
3:I:578:VAL:HA	3:I:581:LEU:HD21	1.97	0.46
3:D:804:LEU:CG	3:D:830:ALA:O	2.63	0.46
2:H:1082:PRO:HB2	2:H:1084:SER:OG	2.14	0.46
2:C:4:LYS:HZ3	2:C:917:LEU:HD21	1.79	0.46
2:H:69:LEU:HD21	2:H:99:GLN:OE1	2.15	0.46
3:N:841:TYR:CD2	3:N:841:TYR:N	2.81	0.46
4:E:58:PRO:CG	4:E:59:ASN:H	2.23	0.46
2:M:1052:MET:HG3	3:N:623:VAL:CG2	2.45	0.46
4:J:31:LEU:HD12	4:J:31:LEU:H	1.81	0.46
3:D:553:ARG:HH12	3:D:573:MET:HE1	1.80	0.46
7:Y:128:ALA:HB2	7:Y:140:LEU:CD2	2.39	0.46
3:N:1144:LEU:HA	3:N:1147:ARG:HG3	1.96	0.46
4:O:6:ILE:HA	4:O:9:LEU:HD12	1.95	0.46
2:M:897:LEU:HD21	2:M:921:ALA:N	2.30	0.46
1:L:161:ARG:HG3	1:L:161:ARG:NH1	2.27	0.46
2:M:843:HIS:CD2	2:M:884:GLN:CA	2.98	0.46
3:N:105:VAL:HG22	3:N:112:ILE:CG2	2.45	0.46
3:N:1164:ARG:NH1	3:N:1170:ASP:OD1	2.47	0.46
1:G:94:LEU:O	1:G:146:ARG:NH2	2.47	0.46
3:I:1283:ILE:HG22	3:I:1284:GLU:N	2.31	0.46
3:I:1137:ARG:NH1	3:I:1137:ARG:HG3	2.30	0.46
3:N:1313:VAL:HG21	3:N:1319:VAL:CG1	2.44	0.46
2:M:188:LYS:HZ3	2:M:188:LYS:HB2	1.81	0.46
1:F:189:ARG:HG3	1:F:191:ASP:OD1	2.16	0.46
2:M:544:THR:O	2:M:546:LEU:N	2.47	0.46
3:N:561:GLY:O	3:N:563:PRO:HD2	2.15	0.46
3:N:1126:ASP:OD1	3:N:1126:ASP:C	2.52	0.46
1:A:213:GLN:O	1:A:217:ILE:HG13	2.15	0.46
2:M:695:LEU:HD21	2:M:832:LYS:HB3	1.96	0.46
2:H:1098:ASP:N	3:I:11:ALA:O	2.26	0.46
2:C:987:ILE:HD12	3:D:948:THR:CG2	2.45	0.46
3:D:1083:ASP:O	3:D:1087:ARG:HB3	2.16	0.46
3:D:781:PRO:HB2	3:D:786:ILE:CD1	2.44	0.46
3:D:1213:ARG:HB2	3:D:1214:PRO:CD	2.45	0.46
4:J:47:LYS:O	4:J:54:LEU:HD13	2.14	0.46
2:H:949:LYS:HD3	3:I:796:ARG:NH2	2.30	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:95:LEU:HA	3:N:551:ASN:OD1	2.15	0.46
3:D:145:VAL:HG22	3:D:146:PRO:CD	2.45	0.46
3:N:1219:GLU:OE1	4:O:17:TYR:OH	2.32	0.46
3:D:354:VAL:HB	3:D:367:ILE:O	2.15	0.46
3:I:1098:LEU:HD23	3:I:1229:ILE:HB	1.94	0.46
2:C:571:LEU:CD1	2:C:701:THR:H	2.28	0.46
2:C:697:ARG:CD	2:C:699:PHE:CD1	2.92	0.46
3:I:10:ILE:O	3:I:1454:GLY:HA2	2.14	0.46
3:I:1221:VAL:O	3:I:1224:VAL:HB	2.15	0.46
1:A:86:VAL:HG13	1:A:86:VAL:O	2.16	0.46
2:M:39:ARG:NH1	2:M:39:ARG:HG3	2.30	0.46
2:H:151:ASP:HB3	2:H:154:ARG:O	2.15	0.46
3:D:95:LEU:HA	3:D:551:ASN:OD1	2.13	0.46
7:X:125:MET:HA	7:X:140:LEU:HD11	1.97	0.46
1:L:57:TYR:HB3	1:L:141:GLU:HG2	1.97	0.46
2:M:88:LEU:HD22	2:M:814:GLU:CG	2.44	0.46
1:L:73:GLU:HG3	1:L:130:ALA:CB	2.45	0.46
2:H:480:THR:HB	2:H:482:GLU:H	1.80	0.46
2:H:25:SER:O	2:H:29:ALA:HB2	2.15	0.46
1:L:68:ILE:N	1:L:68:ILE:HD12	2.30	0.46
3:N:628:ARG:NH1	3:N:628:ARG:HG3	2.30	0.46
2:H:722:ILE:CG2	2:H:821:GLU:OE1	2.63	0.46
2:C:118:ILE:HA	2:C:119:PRO:HD3	1.82	0.46
2:C:293:PHE:N	2:C:293:PHE:CD1	2.76	0.46
3:N:482:LYS:O	3:N:482:LYS:HG3	2.15	0.46
2:H:139:GLN:HE22	2:H:414:GLY:HA3	1.79	0.46
7:Z:125:MET:HA	7:Z:140:LEU:CD1	2.44	0.46
3:D:1102:THR:HG21	3:D:1371:VAL:HG22	1.96	0.46
2:C:860:HIS:HA	2:C:866:PRO:HA	1.98	0.46
2:C:260:LEU:C	2:C:260:LEU:HD23	2.36	0.46
3:N:1254:GLN:HG2	3:N:1255:GLY:N	2.30	0.46
2:C:897:LEU:CD2	2:C:920:GLN:HG2	2.46	0.46
2:M:26:TYR:HA	2:M:29:ALA:HB3	1.97	0.46
3:D:502:PHE:CZ	3:D:509:PRO:HB3	2.51	0.46
2:H:1099:VAL:HG22	3:I:10:ILE:HG12	1.97	0.46
2:H:504:GLU:OE2	2:H:504:GLU:CA	2.50	0.46
3:I:17:LYS:CG	3:I:21:TRP:HE1	2.16	0.46
3:I:1192:LEU:HD22	3:I:1345:GLU:OE2	2.15	0.46
3:D:54:LYS:CG	3:D:55:ASP:N	2.78	0.46
3:I:969:ARG:CG	3:I:970:LYS:N	2.73	0.46
1:A:142:VAL:HG23	1:A:142:VAL:O	2.14	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:54:ILE:HG21	2:H:66:LEU:HB3	1.93	0.46
3:D:470:LEU:CB	3:D:503:LEU:HD21	2.42	0.46
2:M:840:ALA:HB2	2:M:846:LYS:HA	1.96	0.46
1:L:206:THR:CG2	1:L:209:GLU:H	2.27	0.46
3:D:172:PRO:HG2	3:D:175:VAL:HG21	1.98	0.46
2:M:12:VAL:HG11	2:M:472:ARG:HD3	1.96	0.46
2:C:690:ILE:HG13	2:C:694:LEU:CD1	2.46	0.46
2:M:1030:GLN:HE22	3:N:628:ARG:HE	1.63	0.46
3:I:918:ALA:O	3:I:922:LEU:HG	2.15	0.46
3:I:149:LYS:H	3:I:149:LYS:HE2	1.81	0.46
3:N:198:ARG:HG3	3:N:198:ARG:HH11	1.80	0.46
2:H:5:ARG:HG2	2:H:5:ARG:O	2.13	0.46
1:A:69:PRO:O	1:A:71:VAL:HG23	2.15	0.46
7:Y:18:GLN:O	7:Y:22:GLU:HG2	2.16	0.46
2:M:816:LYS:HB2	2:M:819:VAL:HG21	1.98	0.46
2:C:496:ILE:HD12	2:C:496:ILE:H	1.81	0.46
3:D:1109:GLU:CG	3:D:1202:GLN:H	2.29	0.46
3:I:696:HIS:HB2	4:J:48:MET:HE2	1.96	0.46
2:H:946:ARG:HD2	2:H:984:GLU:CB	2.45	0.46
2:C:170:PRO:HD3	2:C:263:ASP:CB	2.46	0.46
2:C:263:ASP:O	2:C:264:PRO:C	2.52	0.46
2:C:1031:ARG:HH21	3:D:621:LYS:HZ2	1.63	0.46
2:C:1092:LEU:HD21	3:D:1447:LEU:HD23	1.97	0.46
3:D:1466:VAL:O	3:D:1469:GLY:N	2.46	0.46
3:I:87:ARG:HG3	3:I:88:TYR:CD2	2.50	0.46
3:D:351:MET:CG	3:D:370:ALA:HB2	2.32	0.46
2:C:6:PHE:N	2:C:6:PHE:CD1	2.83	0.46
2:C:54:ILE:HG22	2:C:66:LEU:H	1.81	0.46
3:N:996:TRP:CE3	3:N:999:THR:HG21	2.51	0.46
3:D:584:ASN:OD1	3:D:590:PRO:HG2	2.16	0.46
2:H:535:SER:HG	2:H:537:LYS:HZ3	1.61	0.46
2:M:1008:ARG:NH2	2:M:1012:PRO:HD2	2.29	0.46
3:N:368:VAL:H	3:N:377:VAL:HB	1.81	0.46
1:F:26:GLU:HG2	1:F:27:PRO:N	2.31	0.46
2:M:654:LEU:HD23	2:M:654:LEU:N	2.28	0.46
2:M:657:ASP:CG	2:M:662:GLU:HA	2.35	0.46
3:N:606:ILE:O	3:N:613:ARG:HB2	2.15	0.46
1:F:92:PRO:C	1:F:94:LEU:H	2.18	0.46
3:D:102:ILE:HD13	3:D:106:LYS:HB2	1.96	0.46
1:F:45:LEU:CD1	1:F:45:LEU:N	2.77	0.46
2:M:374:ASN:ND2	2:M:376:ARG:H	2.13	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:194:LYS:HG2	1:K:194:LYS:O	2.13	0.46
2:C:449:ILE:O	2:C:451:LEU:HG	2.16	0.46
2:M:437:ARG:CZ	2:M:488:ALA:HA	2.46	0.46
3:N:1299:PHE:H	3:N:1299:PHE:HD2	1.62	0.46
2:M:486:MET:HE2	2:M:491:GLU:HA	1.96	0.46
3:I:464:LEU:O	3:I:468:LEU:HG	2.14	0.46
7:X:134:VAL:HG22	7:X:153:ALA:HA	1.98	0.46
3:I:471:GLU:H	3:I:471:GLU:HG2	1.56	0.46
2:M:640:ARG:HG2	2:M:640:ARG:NH1	2.30	0.46
2:M:224:GLU:HB2	2:M:228:ALA:HB2	1.97	0.46
2:C:1099:VAL:HG22	3:D:10:ILE:CG1	2.45	0.46
1:K:91:ASN:ND2	1:K:93:SER:CB	2.79	0.46
3:I:864:VAL:HG12	3:I:865:THR:H	1.79	0.46
3:I:795:VAL:CG2	3:I:879:ARG:NH1	2.75	0.46
2:C:139:GLN:HG2	2:C:140:ILE:N	2.29	0.46
3:N:880:ILE:O	3:N:881:LEU:C	2.54	0.46
3:N:906:GLN:HB3	3:N:911:LEU:CD1	2.33	0.46
2:M:114:PHE:O	2:M:114:PHE:CD1	2.68	0.46
2:M:1092:LEU:CD2	3:N:1447:LEU:HD23	2.45	0.46
2:C:174:LEU:CD2	2:C:184:MET:HG3	2.46	0.46
3:I:1256:LEU:O	3:I:1257:PRO:C	2.53	0.46
4:J:51:LEU:C	4:J:53:GLY:N	2.65	0.46
4:J:53:GLY:C	4:J:55:PHE:H	2.19	0.46
3:D:1412:LYS:C	3:D:1414:PRO:HD3	2.34	0.46
3:D:95:LEU:HD23	3:D:551:ASN:OD1	2.16	0.46
2:H:579:VAL:CG1	2:H:887:GLU:HG3	2.46	0.46
3:N:57:GLU:HG3	3:N:64:LYS:HD2	1.97	0.46
2:M:579:VAL:HG13	2:M:579:VAL:O	2.15	0.46
2:H:838:LYS:HZ2	2:H:846:LYS:HZ1	1.63	0.46
3:D:875:THR:CG2	3:D:879:ARG:HB2	2.46	0.46
3:N:639:LEU:CD1	3:N:766:ALA:HB2	2.46	0.46
2:C:26:TYR:O	2:C:29:ALA:HB3	2.14	0.46
2:H:901:TYR:HE2	2:H:917:LEU:HD13	1.81	0.46
3:I:140:ALA:N	3:I:450:TYR:CD2	2.83	0.46
2:M:88:LEU:HD13	2:M:89:THR:H	1.79	0.46
2:H:611:ILE:CG1	2:H:625:LEU:HD21	2.46	0.46
2:M:443:THR:HG21	3:N:1078:ARG:CD	2.46	0.46
1:K:162:ILE:HD12	1:K:163:ASN:N	2.31	0.46
3:I:1096:ARG:NH1	3:I:1096:ARG:HG2	2.29	0.46
2:M:890:LEU:HD21	2:M:901:TYR:CD1	2.49	0.46
3:D:149:LYS:H	3:D:149:LYS:HE3	1.78	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:226:SER:O	1:L:228:PRO:HD3	2.15	0.46
1:A:20:TYR:CE2	1:A:198:ARG:HB2	2.51	0.46
1:L:83:LYS:HE3	1:L:167:VAL:HG12	1.97	0.46
7:X:5:VAL:HG11	7:X:72:ALA:HB2	1.97	0.46
2:H:805:ARG:CB	2:H:805:ARG:HH11	2.27	0.46
4:O:59:ASN:HD22	4:O:60:ALA:H	1.62	0.46
7:X:155:HIS:O	7:X:156:GLY:C	2.53	0.46
2:C:1011:GLY:CA	2:C:1026:GLN:HG2	2.46	0.46
3:N:66:GLN:O	3:N:66:GLN:NE2	2.49	0.46
1:B:16:GLN:NE2	1:B:16:GLN:HA	2.30	0.46
3:D:184:GLU:HA	3:D:184:GLU:OE1	2.15	0.46
2:M:48:PHE:HD1	2:M:48:PHE:HA	1.62	0.46
3:I:619:LEU:HA	3:I:619:LEU:HD23	1.59	0.46
3:D:994:GLN:OE1	3:D:994:GLN:HA	2.16	0.46
3:D:1176:LYS:O	3:D:1179:GLU:HB2	2.15	0.46
2:C:617:ASP:OD1	2:C:619:ARG:HG3	2.15	0.46
3:D:1109:GLU:HG2	3:D:1201:CYS:CB	2.46	0.46
2:H:1046:ALA:HB2	3:I:1476:THR:HB	1.98	0.46
2:C:1092:LEU:O	2:C:1095:LEU:O	2.34	0.46
3:I:800:LYS:CG	3:I:826:PRO:HD2	2.39	0.46
3:D:142:LEU:HA	3:D:145:VAL:O	2.15	0.46
3:D:843:PHE:HB2	3:D:866:VAL:HG22	1.98	0.46
3:D:207:PHE:CD1	3:D:207:PHE:N	2.83	0.46
2:H:110:GLU:HB2	2:H:368:THR:CG2	2.45	0.46
3:I:1223:ILE:O	3:I:1226:ALA:N	2.49	0.46
7:Y:28:GLU:O	7:Y:32:ILE:HG12	2.16	0.46
4:E:51:LEU:C	4:E:53:GLY:N	2.65	0.46
2:M:1092:LEU:O	2:M:1095:LEU:O	2.32	0.46
2:C:831:ARG:HG3	2:C:1000:MET:HE3	1.97	0.46
3:I:141:ILE:HG12	3:I:448:GLU:OE1	2.16	0.46
3:N:1303:TYR:HB3	3:N:1305:LEU:HD21	1.97	0.46
3:D:100:ALA:CB	3:D:128:TYR:OH	2.60	0.46
3:I:644:LEU:HD12	3:I:645:PRO:HD2	1.95	0.46
3:D:589:ALA:HA	3:D:590:PRO:HD3	1.81	0.46
3:I:660:LYS:HZ1	3:I:660:LYS:HA	1.80	0.46
1:B:197:LEU:C	1:B:197:LEU:HD23	2.35	0.46
2:M:627:ARG:O	2:M:638:ASP:CB	2.59	0.46
2:C:1006:HIS:O	3:D:627:GLY:HA2	2.15	0.46
3:N:756:GLN:O	3:N:759:ALA:HB3	2.15	0.46
3:N:365:ASP:H	3:N:379:ALA:HB3	1.81	0.46
3:I:1063:GLU:OE1	3:I:1063:GLU:HA	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:434:ARG:H	3:I:449:SER:HB3	1.81	0.46
2:H:575:GLN:NE2	2:H:671:ASN:H	2.13	0.46
3:N:1207:TYR:HB3	3:N:1208:ASP:H	1.58	0.46
3:N:407:VAL:HA	3:N:422:ALA:HB2	1.97	0.46
4:E:8:LYS:O	4:E:12:MET:HG3	2.15	0.46
7:Y:89:VAL:HG12	7:Y:90:GLU:N	2.31	0.46
1:G:16:GLN:HE21	1:G:16:GLN:HA	1.81	0.46
2:M:716:LYS:HE2	2:M:716:LYS:HB3	1.72	0.46
3:D:469:ASP:O	3:D:472:ALA:HB3	2.15	0.46
3:I:1287:GLU:O	3:I:1289:LYS:N	2.49	0.46
3:N:1233:GLY:HA2	3:N:1236:LEU:CD1	2.46	0.46
3:D:72:VAL:CG2	3:D:77:GLY:HA2	2.45	0.46
2:C:752:GLY:H	2:C:792:VAL:HB	1.80	0.46
2:H:714:ASP:HB2	2:H:818:GLY:O	2.15	0.46
2:H:140:ILE:CG2	2:H:333:ILE:CD1	2.90	0.46
2:C:557:ARG:HG3	2:C:557:ARG:NH1	2.31	0.46
2:C:668:LEU:CD1	2:C:668:LEU:N	2.74	0.46
2:C:556:ASN:OD1	7:X:46:SER:N	2.49	0.46
2:C:249:LYS:HD2	2:C:250:ARG:H	1.81	0.46
3:N:1080:GLY:HA3	7:Z:49:GLU:HG3	1.96	0.46
3:I:788:GLY:O	3:I:792:ILE:HG22	2.15	0.46
2:C:1061:GLU:HG3	3:D:84:ILE:HD12	1.97	0.46
2:C:461:VAL:HG13	2:C:465:GLY:HA2	1.97	0.46
3:N:481:MET:HE1	3:N:496:LEU:HD23	1.98	0.46
2:C:141:HIS:HB3	2:C:418:LEU:CG	2.45	0.46
3:D:798:GLU:CG	3:D:799:LYS:H	2.29	0.46
3:D:827:ILE:C	3:D:828:LYS:CG	2.84	0.46
3:N:770:LEU:HD23	3:N:777:PRO:HA	1.97	0.46
3:D:208:PRO:C	3:D:210:ARG:N	2.68	0.46
3:I:806:PHE:C	3:I:808:THR:N	2.68	0.46
2:M:863:ASP:O	2:M:865:THR:N	2.49	0.46
3:N:1021:TYR:HE2	3:N:1025:GLN:HG2	1.75	0.46
2:M:140:ILE:HG22	2:M:333:ILE:HD13	1.98	0.46
2:C:691:SER:O	2:C:693:GLU:N	2.49	0.46
2:M:676:ILE:HG12	2:M:676:ILE:O	2.14	0.46
3:D:1388:ARG:HG3	3:D:1389:LEU:N	2.31	0.46
3:I:1459:LEU:CD1	3:I:1459:LEU:N	2.77	0.46
3:I:1192:LEU:HG	3:I:1369:GLU:HB3	1.96	0.46
3:I:142:LEU:HD23	3:I:145:VAL:C	2.35	0.46
3:I:145:VAL:HG22	3:I:146:PRO:CD	2.42	0.46
1:F:21:GLY:HA3	1:F:207:PRO:HB3	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:187:GLY:O	3:I:688:TRP:HD1	1.99	0.46
2:M:756:VAL:O	2:M:789:SER:HB3	2.16	0.46
3:D:869:MET:SD	3:D:894:LYS:HE3	2.56	0.46
3:D:996:TRP:O	3:D:999:THR:HG22	2.15	0.46
1:L:104:GLU:HA	1:L:136:GLY:O	2.15	0.46
7:X:26:LEU:HD13	7:X:58:ILE:HG22	1.97	0.46
3:N:507:ASN:N	3:N:507:ASN:ND2	2.64	0.46
7:Z:6:LYS:HB3	7:Z:75:LEU:HD13	1.98	0.46
3:D:416:ALA:HA	3:D:432:TYR:CD2	2.51	0.46
3:D:1280:VAL:O	3:D:1294:VAL:HA	2.15	0.46
2:H:759:THR:HB	2:H:785:VAL:HG22	1.98	0.46
3:I:1356:TYR:HD1	3:I:1356:TYR:H	1.62	0.46
3:I:407:VAL:HA	3:I:422:ALA:CB	2.46	0.46
2:H:265:ARG:O	2:H:288:ARG:HG2	2.15	0.46
2:C:677:MET:C	2:C:873:PRO:HD3	2.35	0.46
2:C:282:GLY:O	2:C:283:ILE:CG1	2.64	0.46
3:N:786:ILE:O	3:N:787:LEU:C	2.54	0.46
3:N:1471:LEU:HD21	3:N:1477:GLY:HA2	1.97	0.46
3:D:850:LEU:HA	3:D:853:VAL:HG23	1.97	0.46
3:D:853:VAL:HG13	3:D:858:VAL:O	2.15	0.46
3:N:1229:ILE:HD12	3:N:1371:VAL:HG21	1.97	0.46
3:D:204:LEU:HB3	3:D:394:LEU:CG	2.41	0.46
2:M:1086:ARG:HD3	3:N:88:TYR:CD2	2.50	0.46
2:H:794:PRO:HG2	2:H:1025:ALA:O	2.15	0.46
3:D:918:ALA:CB	3:D:927:THR:HG23	2.46	0.46
2:M:160:ALA:O	2:M:173:ASP:HA	2.16	0.46
2:M:242:LEU:CD1	2:M:254:VAL:HG21	2.45	0.46
1:G:86:VAL:HG12	1:G:124:ASN:CG	2.37	0.46
2:M:670:GLN:CG	2:M:700:TYR:CE1	2.99	0.46
2:H:393:GLN:HB2	2:H:393:GLN:HE21	1.58	0.46
3:I:131:LYS:HD2	3:I:568:ARG:CG	2.37	0.46
3:D:1493:LYS:HA	3:D:1493:LYS:HE2	1.97	0.46
2:H:939:ARG:NE	2:H:939:ARG:HA	2.24	0.46
3:D:1288:GLU:OE2	3:D:1289:LYS:HE3	2.15	0.46
2:M:77:PRO:HD3	2:M:91:GLN:O	2.16	0.46
7:Y:5:VAL:CG1	7:Y:72:ALA:CB	2.92	0.46
1:F:91:ASN:ND2	1:F:93:SER:HB2	2.30	0.46
3:D:471:GLU:O	3:D:474:GLU:HB3	2.16	0.46
3:D:475:LYS:H	3:D:475:LYS:HG3	1.49	0.46
1:F:127:LEU:HG	1:F:129:ILE:CD1	2.46	0.46
2:H:22:GLN:NE2	2:H:336:VAL:CG2	2.79	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:64:GLU:HB3	1:B:65:PHE:CD1	2.51	0.46
3:I:52:PRO:HG3	3:I:78:VAL:HG13	1.98	0.46
3:I:1387:SER:HB3	3:I:1391:GLU:OE2	2.16	0.46
2:M:36:PRO:CB	2:M:70:GLU:HG2	2.45	0.46
1:B:153:ALA:CB	1:B:168:ASP:OD1	2.63	0.46
3:I:790:TYR:CD1	3:I:790:TYR:C	2.89	0.46
3:N:546:ARG:HG2	3:N:546:ARG:NH1	2.31	0.46
3:I:41:ARG:C	3:I:43:GLY:H	2.19	0.46
3:N:667:ALA:HA	3:N:668:PRO:HD3	1.78	0.46
2:H:235:LEU:O	2:H:239:PHE:HD2	1.97	0.46
2:C:677:MET:HA	2:C:873:PRO:HG2	1.97	0.46
2:C:874:LEU:HD21	3:D:787:LEU:HD22	1.97	0.46
3:D:939:PHE:O	3:D:942:SER:HB3	2.15	0.46
2:C:679:PHE:C	3:D:943:THR:HG22	2.36	0.46
3:D:1094:LEU:CD1	3:D:1098:LEU:CD1	2.93	0.46
3:D:1147:ARG:HD2	3:D:1188:VAL:CG2	2.46	0.46
3:I:1107:VAL:HG13	3:I:1200:VAL:O	2.16	0.46
3:N:1379:VAL:HA	3:N:1420:LEU:HB2	1.98	0.46
3:N:1031:ASN:HD21	7:Z:32:ILE:HG23	1.81	0.46
2:H:691:SER:O	2:H:693:GLU:N	2.49	0.46
3:D:907:GLU:CG	3:D:908:LYS:N	2.77	0.46
2:M:64:LEU:CD1	2:M:100:LEU:HD13	2.46	0.46
3:D:204:LEU:N	3:D:394:LEU:O	2.48	0.46
3:D:434:ARG:HB2	3:D:449:SER:OG	2.15	0.46
3:I:1220:ALA:HB1	3:I:1223:ILE:HD12	1.97	0.46
2:M:1086:ARG:HH12	2:M:1111:ILE:HG13	1.81	0.46
3:N:834:THR:HB	3:N:838:ARG:HB2	1.96	0.46
3:I:136:ASP:CB	3:I:137:PRO:HD3	2.38	0.46
1:B:212:ASN:C	1:B:215:VAL:HG22	2.33	0.46
2:M:147:TYR:O	2:M:148:PHE:HD2	1.98	0.46
2:M:200:LEU:HD13	2:M:300:ASP:OD2	2.16	0.46
3:N:999:THR:CG2	3:N:1000:THR:N	2.79	0.46
2:M:332:ARG:CG	2:M:465:GLY:HA3	2.46	0.46
2:M:1095:LEU:O	2:M:1096:ALA:C	2.55	0.46
2:C:174:LEU:HD22	2:C:193:LEU:CD2	2.46	0.46
3:D:1389:LEU:H	3:D:1389:LEU:HD23	1.80	0.46
3:D:481:MET:HE1	3:D:496:LEU:HD23	1.98	0.46
3:I:970:LYS:HA	3:I:973:GLN:HE21	1.81	0.46
2:M:249:LYS:C	2:M:249:LYS:NZ	2.70	0.46
2:H:227:PHE:HD2	2:H:237:ARG:HE	1.62	0.46
2:H:307:LEU:HD12	2:H:307:LEU:HA	1.78	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:675:ALA:CA	2:M:989:VAL:HG12	2.39	0.46
7:Y:127:LYS:HD3	7:Y:127:LYS:C	2.36	0.46
3:I:1068:LEU:O	3:I:1069:GLU:C	2.53	0.46
2:C:1070:ILE:HG21	3:D:655:PRO:HB2	1.98	0.46
1:L:38:ASN:O	1:L:42:ARG:HG3	2.16	0.46
4:O:33:HIS:ND1	4:O:89:MET:HG2	2.31	0.46
2:M:890:LEU:CD2	2:M:901:TYR:CD1	2.98	0.46
3:I:1080:GLY:HA2	7:Y:49:GLU:HG3	1.98	0.46
1:F:50:GLY:O	1:F:146:ARG:HA	2.16	0.46
3:D:984:THR:HG22	3:D:987:GLU:HG3	1.98	0.46
2:M:433:THR:HG21	2:M:488:ALA:HB1	1.97	0.46
3:N:1159:ARG:NH1	3:N:1159:ARG:HG2	2.28	0.46
2:M:470:PRO:HB2	2:M:534:VAL:HG21	1.98	0.46
7:Z:48:LEU:O	7:Z:52:LYS:HG3	2.16	0.46
1:L:91:ASN:N	1:L:91:ASN:OD1	2.48	0.46
3:I:1149:LEU:HD23	3:I:1187:PRO:O	2.15	0.46
2:H:205:GLU:CD	2:H:206:THR:N	2.63	0.46
2:H:250:ARG:CZ	2:H:250:ARG:CB	2.94	0.46
2:H:304:LEU:HG	2:H:305:PRO:CD	2.46	0.46
2:C:554:ASP:OD2	2:C:556:ASN:CB	2.64	0.46
2:C:997:LEU:C	2:C:999:HIS:N	2.69	0.46
3:D:1369:GLU:O	3:D:1370:ILE:C	2.54	0.46
2:C:1090:LYS:NZ	2:C:1112:PHE:HE1	2.14	0.46
3:D:10:ILE:HG22	3:D:1451:ALA:HA	1.98	0.46
3:D:52:PRO:O	3:D:86:ARG:CD	2.59	0.46
2:M:874:LEU:HD23	3:N:1023:MET:SD	2.56	0.46
3:N:800:LYS:HD3	3:N:830:ALA:HB3	1.98	0.46
3:D:347:VAL:CG1	3:D:351:MET:HB3	2.36	0.46
2:C:115:LEU:H	2:C:115:LEU:HG	1.35	0.46
2:H:1010:THR:HG21	2:H:1063:ARG:HH21	1.80	0.46
2:C:160:ALA:O	2:C:173:ASP:HA	2.16	0.46
2:H:437:ARG:NH2	2:H:488:ALA:HA	2.31	0.46
3:N:483:HIS:HB2	3:N:484:PRO:CD	2.37	0.46
2:M:249:LYS:HZ2	2:M:249:LYS:C	2.19	0.46
2:M:249:LYS:HD2	2:M:249:LYS:HA	1.78	0.46
1:B:45:LEU:HD11	1:B:177:VAL:HG22	1.98	0.46
2:C:42:VAL:HA	2:C:46:ALA:HB2	1.97	0.46
2:M:409:ARG:HB3	2:M:454:SER:OG	2.16	0.46
2:C:84:ARG:HD3	2:C:131:GLY:O	2.15	0.46
1:A:101:LEU:HG	1:A:102:LYS:N	2.29	0.46
1:A:115:LEU:HD12	1:A:116:PRO:HD2	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:443:THR:HG21	3:N:1078:ARG:NE	2.31	0.46
3:I:104:PHE:HB3	3:I:512:MET:SD	2.56	0.46
3:D:1167:SER:O	3:D:1171:VAL:HG23	2.16	0.46
1:B:57:TYR:HB2	1:B:164:ALA:CB	2.46	0.46
3:D:1135:ARG:HD2	3:D:1139:ASP:HB2	1.96	0.46
1:A:50:GLY:O	1:A:146:ARG:HA	2.16	0.46
2:H:824:ARG:NH1	2:H:824:ARG:HG2	2.30	0.46
2:M:18:LEU:H	2:M:18:LEU:HD12	1.81	0.46
2:M:998:TYR:CG	2:M:998:TYR:O	2.68	0.46
2:H:900:ARG:HH11	2:H:900:ARG:HG3	1.81	0.46
2:M:591:SER:O	2:M:592:LEU:HB2	2.15	0.46
3:D:199:LEU:HD23	3:D:200:ASP:N	2.30	0.46
3:D:199:LEU:HD23	3:D:200:ASP:O	2.16	0.46
3:I:1150:ALA:O	3:I:1162:GLU:HG2	2.16	0.46
2:H:363:SER:HA	7:Z:12:TYR:OH	2.15	0.46
2:C:880:MET:HB3	3:D:1061:PHE:HE2	1.81	0.45
7:Z:88:VAL:HG22	7:Z:103:GLN:HG3	1.98	0.45
2:H:1046:ALA:HB3	3:I:1476:THR:HB	1.98	0.45
2:C:1093:GLN:HB3	3:D:21:TRP:HZ3	1.79	0.45
1:K:18:ARG:HH12	1:K:88:ARG:HE	1.64	0.45
1:K:44:LEU:HA	1:K:48:ILE:CD1	2.46	0.45
2:H:677:MET:HA	2:H:873:PRO:HG3	1.96	0.45
3:I:783:ARG:HD2	3:I:783:ARG:H	1.81	0.45
1:F:150:TYR:CE1	2:H:696:LYS:HA	2.51	0.45
3:D:841:TYR:HB2	3:D:864:VAL:CG1	2.46	0.45
2:H:1019:GLN:NE2	3:I:621:LYS:HD2	2.31	0.45
3:D:166:GLN:NE2	3:D:394:LEU:HD12	2.30	0.45
3:D:925:GLU:HG2	3:D:926:LYS:N	2.31	0.45
2:M:207:LEU:CD2	2:M:211:LEU:HD23	2.46	0.45
2:M:165:LEU:HA	2:M:166:PRO:C	2.37	0.45
1:F:79:ILE:C	1:F:79:ILE:HD12	2.36	0.45
4:J:36:LYS:HZ3	4:J:45:ARG:NH2	2.12	0.45
3:I:1201:CYS:SG	3:I:1204:CYS:SG	3.15	0.45
3:I:978:TYR:HB2	3:I:983:LEU:HD11	1.99	0.45
7:Y:102:VAL:CG2	7:Y:119:ILE:HD11	2.46	0.45
2:H:501:THR:HA	2:H:502:PRO:HD3	1.77	0.45
2:C:720:GLU:HG2	2:C:760:SER:CB	2.46	0.45
2:M:710:ILE:HD11	2:M:758:ARG:HD3	1.97	0.45
1:A:41:ARG:CG	1:A:41:ARG:HH11	2.27	0.45
2:M:342:ASP:O	2:M:345:ARG:HG2	2.17	0.45
2:M:524:VAL:HG12	2:M:528:GLU:HB2	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:808:ARG:HH21	2:H:820:ARG:HH21	1.63	0.45
2:H:889:HIS:O	2:H:892:LEU:HB3	2.16	0.45
2:H:1014:SER:CB	2:H:1017:THR:O	2.65	0.45
3:I:921:ARG:C	3:I:922:LEU:HD23	2.37	0.45
7:X:35:GLU:OE1	7:X:35:GLU:HA	2.16	0.45
3:N:540:LEU:H	3:N:540:LEU:HD12	1.81	0.45
3:N:1460:ILE:HD13	3:N:1460:ILE:H	1.81	0.45
3:D:473:LEU:HA	3:D:476:GLU:HB2	1.98	0.45
2:C:1035:MET:HA	2:C:1038:TRP:CZ3	2.51	0.45
2:C:1096:ALA:CB	3:D:101:HIS:NE2	2.79	0.45
3:I:843:PHE:CD1	3:I:843:PHE:N	2.83	0.45
2:C:165:LEU:HB3	2:C:265:ARG:NH1	2.31	0.45
2:C:139:GLN:HB3	2:C:334:ARG:CG	2.47	0.45
3:N:148:GLU:HB3	3:N:151:GLN:HB2	1.97	0.45
2:M:66:LEU:HD22	2:M:372:LEU:HD23	1.99	0.45
3:I:520:LEU:HD21	3:I:524:LEU:HB3	1.98	0.45
2:M:90:TYR:CD1	2:M:120:LEU:HB2	2.52	0.45
2:C:794:PRO:HG2	2:C:1025:ALA:CA	2.46	0.45
3:I:1047:LYS:HG2	3:I:1053:PHE:CD1	2.51	0.45
3:N:950:GLY:O	3:N:953:ASP:N	2.46	0.45
3:N:1287:GLU:O	3:N:1289:LYS:N	2.49	0.45
3:D:54:LYS:HG2	3:D:57:GLU:OE2	2.16	0.45
1:F:80:LEU:HA	1:F:83:LYS:HE3	1.98	0.45
2:C:1014:SER:HB2	2:C:1021:LEU:CD1	2.45	0.45
1:F:206:THR:HG23	1:F:209:GLU:H	1.78	0.45
3:N:1311:LEU:H	3:N:1311:LEU:HD23	1.77	0.45
3:N:1118:ILE:HD12	3:N:1118:ILE:N	2.32	0.45
3:N:1147:ARG:O	3:N:1165:TYR:HA	2.16	0.45
2:M:710:ILE:HG21	2:M:756:VAL:CG1	2.43	0.45
3:I:1197:ARG:HG3	3:I:1198:TYR:H	1.81	0.45
3:N:638:LYS:O	3:N:640:HIS:N	2.49	0.45
2:C:127:PHE:CD1	2:C:136:ILE:HD13	2.52	0.45
3:I:450:TYR:CD1	3:I:450:TYR:C	2.89	0.45
2:M:441:VAL:HG12	2:M:559:LEU:HA	1.98	0.45
2:C:286:SER:CB	2:C:299:LYS:HE3	2.43	0.45
7:Y:153:ALA:C	7:Y:154:ILE:HG13	2.37	0.45
3:I:1492:LEU:HD21	4:J:79:LEU:HD11	1.98	0.45
1:K:228:PRO:O	1:K:229:GLN:HG3	2.16	0.45
3:I:414:ARG:N	3:I:414:ARG:HD2	2.31	0.45
1:B:211:LEU:O	1:B:214:ALA:HB3	2.16	0.45
2:C:557:ARG:NH1	2:C:560:MET:CG	2.79	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:585:GLU:O	2:C:588:VAL:CG2	2.61	0.45
2:C:997:LEU:O	2:C:999:HIS:N	2.45	0.45
3:D:1094:LEU:CG	3:D:1098:LEU:HD11	2.46	0.45
3:I:1216:SER:CB	4:J:16:LYS:HB3	2.46	0.45
2:H:676:ILE:O	3:I:948:THR:CG2	2.62	0.45
3:N:143:ASN:CB	3:N:161:LEU:CD2	2.95	0.45
3:N:804:LEU:HD13	3:N:829:VAL:CB	2.46	0.45
1:B:152:PRO:HG2	3:D:857:ILE:HD12	1.97	0.45
3:N:1365:ASP:O	3:N:1366:LYS:C	2.53	0.45
3:D:355:VAL:CG2	3:D:367:ILE:HG23	2.47	0.45
2:C:889:HIS:CD2	3:D:951:ILE:HG22	2.51	0.45
2:C:69:LEU:CD1	2:C:97:ARG:HB3	2.27	0.45
3:I:1352:ILE:O	3:I:1355:VAL:CG2	2.65	0.45
3:I:1263:PHE:HE2	3:I:1371:VAL:HG11	1.81	0.45
2:M:68:PHE:HE1	2:M:96:ALA:HB1	1.81	0.45
3:I:1114:THR:O	3:I:1114:THR:HG23	2.16	0.45
3:N:957:PRO:HG2	3:N:1007:VAL:CA	2.43	0.45
2:M:265:ARG:HB3	2:M:267:TYR:CD2	2.49	0.45
3:N:10:ILE:CG2	3:N:1451:ALA:HA	2.45	0.45
3:I:1161:GLU:CG	3:I:1164:ARG:HB2	2.46	0.45
2:C:571:LEU:HD11	2:C:700:TYR:CA	2.46	0.45
2:H:263:ASP:OD2	2:H:263:ASP:N	2.49	0.45
2:C:376:ARG:CB	2:C:377:PRO:HD3	2.46	0.45
3:N:179:VAL:HG13	3:N:183:GLU:CD	2.37	0.45
7:Y:110:ALA:O	7:Y:111:ASN:HB2	2.16	0.45
3:I:1305:LEU:HD12	3:I:1311:LEU:HD13	1.97	0.45
1:A:94:LEU:HD11	1:A:119:ASP:OD1	2.16	0.45
2:C:722:ILE:O	2:C:722:ILE:HG23	2.16	0.45
2:M:722:ILE:O	2:M:722:ILE:CG2	2.63	0.45
2:C:1008:ARG:NH1	3:D:624:ASP:OD1	2.49	0.45
2:C:486:MET:HE2	2:C:491:GLU:HA	1.92	0.45
3:N:641:GLN:O	3:N:716:PHE:CD2	2.64	0.45
1:L:20:TYR:HE2	1:L:198:ARG:HB2	1.80	0.45
1:B:24:VAL:HG22	1:B:196:THR:CG2	2.46	0.45
2:C:122:THR:HB	2:C:124:ASP:OD1	2.17	0.45
2:M:77:PRO:HB2	2:M:78:PHE:HD1	1.82	0.45
3:I:36:THR:C	3:I:38:LYS:H	2.20	0.45
1:B:62:LEU:HD12	1:B:63:HIS:H	1.80	0.45
1:G:197:LEU:HD23	1:G:197:LEU:C	2.36	0.45
1:L:170:VAL:O	1:L:170:VAL:HG23	2.17	0.45
2:H:30:LEU:HD12	2:H:30:LEU:O	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:1030:GLN:NE2	3:N:628:ARG:HD3	2.32	0.45
2:H:559:LEU:C	2:H:559:LEU:HD23	2.36	0.45
3:D:1139:ASP:OD1	3:D:1357:ARG:HD3	2.17	0.45
1:K:50:GLY:HA3	1:K:173:PRO:HG3	1.98	0.45
3:I:926:LYS:O	3:I:929:ARG:HB2	2.16	0.45
3:N:1233:GLY:HA2	3:N:1236:LEU:HD11	1.99	0.45
3:N:1486:VAL:CG2	4:O:29:GLN:OE1	2.64	0.45
2:C:640:ARG:HG2	2:C:640:ARG:NH1	2.32	0.45
4:E:63:TRP:N	4:E:63:TRP:CD1	2.83	0.45
1:F:227:ASN:O	1:F:227:ASN:ND2	2.50	0.45
3:N:1087:ARG:HB3	3:N:1237:THR:HG23	1.98	0.45
1:G:221:HIS:HA	1:G:224:TYR:HD2	1.81	0.45
3:D:30:GLU:HB3	3:D:40:GLU:HB3	1.99	0.45
1:B:34:VAL:CG2	1:B:181:VAL:HG21	2.29	0.45
2:C:430:VAL:HA	2:C:434:HIS:ND1	2.32	0.45
2:M:869:VAL:HG22	2:M:870:ILE:N	2.31	0.45
4:O:54:LEU:HA	4:O:58:PRO:HG3	1.97	0.45
3:I:606:ILE:O	3:I:606:ILE:CG1	2.63	0.45
3:D:827:ILE:CD1	3:D:827:ILE:H	2.20	0.45
2:M:64:LEU:HB2	2:M:359:MET:CG	2.47	0.45
3:D:1166:LEU:CD2	3:D:1166:LEU:N	2.64	0.45
3:I:844:ALA:O	3:I:867:ARG:HB3	2.17	0.45
2:H:1041:GLU:O	2:H:1042:ALA:C	2.55	0.45
3:D:1305:LEU:CD1	3:D:1311:LEU:HD22	2.33	0.45
2:H:433:THR:CG2	2:H:488:ALA:HB1	2.46	0.45
3:I:1047:LYS:HZ1	3:I:1053:PHE:HA	1.81	0.45
2:H:264:PRO:HB3	2:H:289:THR:HG21	1.97	0.45
3:I:1457:ASP:O	3:I:1459:LEU:CD1	2.60	0.45
2:H:724:ARG:HG3	2:H:741:GLY:H	1.81	0.45
3:D:26:VAL:CG2	3:D:519:VAL:HG21	2.47	0.45
3:D:554:LEU:HD22	3:D:574:LEU:HD22	1.98	0.45
1:L:185:ARG:NE	3:N:692:GLU:CG	2.76	0.45
3:I:1251:ASP:C	3:I:1252:ILE:HG12	2.36	0.45
2:M:1019:GLN:O	2:M:1021:LEU:HD12	2.16	0.45
2:H:997:LEU:HD22	2:H:997:LEU:N	2.32	0.45
2:C:1047:HIS:O	2:C:1051:GLU:HB2	2.16	0.45
3:I:880:ILE:O	3:I:881:LEU:C	2.54	0.45
3:D:666:ILE:HD11	3:D:686:GLU:HB2	1.97	0.45
3:N:660:LYS:HD2	3:N:694:VAL:HG22	1.98	0.45
3:D:996:TRP:CA	3:D:999:THR:HG22	2.45	0.45
1:B:161:ARG:HB3	1:B:163:ASN:OD1	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:1284:GLU:OE1	3:I:1284:GLU:HA	2.16	0.45
3:D:1108:ARG:CD	3:D:1108:ARG:N	2.79	0.45
7:Y:6:LYS:HZ3	7:Y:6:LYS:HB2	1.81	0.45
3:I:482:LYS:HG3	3:I:1388:ARG:NH2	2.32	0.45
3:I:47:GLU:O	3:I:51:GLY:CA	2.65	0.45
2:H:931:GLY:C	2:H:933:GLY:H	2.19	0.45
2:H:86:LYS:NZ	2:H:811:PRO:HB2	2.32	0.45
3:N:1014:ASN:C	3:N:1016:PRO:HD3	2.37	0.45
2:C:1063:ARG:HE	2:C:1063:ARG:HB3	1.64	0.45
3:N:568:ARG:HD2	3:N:568:ARG:HA	1.83	0.45
2:C:45:GLN:O	2:C:48:PHE:HB2	2.16	0.45
2:C:496:ILE:CD1	2:C:496:ILE:N	2.76	0.45
3:D:786:ILE:O	3:D:787:LEU:C	2.54	0.45
2:H:985:GLY:HA2	2:H:986:PRO:HD3	1.85	0.45
3:I:204:LEU:HB2	3:I:394:LEU:HD21	1.99	0.45
3:D:1459:LEU:H	3:D:1459:LEU:HD12	1.79	0.45
2:C:143:SER:O	2:C:144:PRO:C	2.54	0.45
2:C:333:ILE:HD12	2:C:333:ILE:N	2.31	0.45
3:N:148:GLU:HB3	3:N:151:GLN:HG2	1.98	0.45
3:N:880:ILE:HG23	3:N:881:LEU:N	2.31	0.45
3:I:947:ILE:HG13	3:I:947:ILE:H	1.66	0.45
1:F:150:TYR:HE1	2:H:696:LYS:HA	1.81	0.45
2:H:853:LEU:HB2	2:H:858:MET:HE3	1.95	0.45
3:D:800:LYS:HB3	3:D:800:LYS:HE3	1.81	0.45
2:H:1111:ILE:HG13	2:H:1111:ILE:H	1.53	0.45
3:D:355:VAL:CG1	3:D:385:VAL:HG21	2.45	0.45
3:D:714:GLN:HG3	3:D:736:PHE:CZ	2.51	0.45
3:I:134:VAL:CG2	3:I:460:ALA:CB	2.91	0.45
2:H:604:ALA:O	2:H:645:VAL:HG12	2.16	0.45
3:I:1262:LEU:HD23	3:I:1352:ILE:HG13	1.98	0.45
1:A:158:ILE:CD1	1:A:158:ILE:H	2.15	0.45
1:K:218:LEU:HD23	1:L:222:LEU:CD2	2.31	0.45
2:C:693:GLU:HG3	2:C:697:ARG:HH21	1.80	0.45
2:C:704:HIS:CE1	2:C:1000:MET:CE	3.00	0.45
2:M:697:ARG:HD2	2:M:699:PHE:CD1	2.51	0.45
3:N:190:GLU:HG2	3:N:196:VAL:CG2	2.38	0.45
3:N:762:GLN:NE2	4:O:20:THR:CG2	2.77	0.45
3:I:1273:VAL:O	3:I:1325:LEU:HB2	2.16	0.45
3:I:1317:ASP:OD1	3:I:1318:TYR:N	2.45	0.45
2:H:496:ILE:HG22	2:H:497:ALA:N	2.31	0.45
1:F:26:GLU:CG	1:F:194:LYS:HD2	2.42	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:701:THR:HG23	2:H:832:LYS:HA	1.99	0.45
2:H:127:PHE:O	2:H:133:ASP:HA	2.16	0.45
4:E:41:GLU:N	4:E:42:PRO:HD2	2.30	0.45
2:M:690:ILE:HG12	2:M:694:LEU:HD12	1.99	0.45
3:I:1422:MET:HE3	3:I:1427:SER:HA	1.97	0.45
1:G:67:THR:O	1:G:69:PRO:HD3	2.17	0.45
3:N:578:VAL:O	3:N:582:LEU:HG	2.16	0.45
2:H:338:GLU:O	2:H:341:THR:CG2	2.64	0.45
3:D:1235:GLN:HB2	7:X:37:MET:CE	2.46	0.45
3:D:1213:ARG:CG	3:D:1214:PRO:HD2	2.47	0.45
3:I:398:ALA:HB2	3:I:447:VAL:HA	1.99	0.45
3:I:441:ARG:NH1	3:I:445:ARG:NH2	2.65	0.45
2:C:1036:GLU:OE1	2:C:1036:GLU:N	2.39	0.45
3:I:796:ARG:HB2	3:I:828:LYS:CD	2.47	0.45
3:I:914:LEU:HD23	3:I:914:LEU:O	2.17	0.45
3:N:789:LEU:HD12	3:N:911:LEU:HD21	1.98	0.45
2:H:685:GLU:OE2	7:Y:41:ASP:CG	2.55	0.45
2:H:1094:ALA:HB1	3:I:603:LEU:CD1	2.46	0.45
3:D:841:TYR:CE1	3:D:858:VAL:HG12	2.51	0.45
2:H:1061:GLU:OE1	3:I:84:ILE:HD13	2.16	0.45
3:N:119:SER:OG	3:N:123:LEU:HB2	2.16	0.45
3:I:806:PHE:HD1	3:I:809:PRO:O	1.97	0.45
2:C:304:LEU:HG	2:C:308:ARG:HH21	1.82	0.45
3:N:1044:LEU:HA	3:N:1044:LEU:HD23	1.70	0.45
2:H:374:ASN:ND2	2:H:377:PRO:HD3	2.31	0.45
3:I:501:ALA:HB1	3:I:1453:ALA:CA	2.46	0.45
3:D:54:LYS:CG	3:D:55:ASP:H	2.29	0.45
2:M:1065:ALA:CB	2:M:1077:PRO:HG2	2.37	0.45
7:Z:13:GLU:HG2	7:Z:17:GLN:NE2	2.20	0.45
2:M:1104:GLU:HA	2:M:1104:GLU:OE1	2.16	0.45
1:A:46:SER:HB3	2:C:856:GLU:HG2	1.98	0.45
1:F:101:LEU:C	1:F:101:LEU:HD23	2.37	0.45
2:C:26:TYR:CE2	2:C:30:LEU:HD21	2.52	0.45
2:M:409:ARG:HA	2:M:454:SER:HA	1.99	0.45
2:H:758:ARG:HH21	2:H:788:THR:HB	1.82	0.45
3:N:509:PRO:O	3:N:512:MET:HB2	2.17	0.45
1:K:39:PRO:CG	1:L:39:PRO:HG2	2.43	0.45
1:F:67:THR:CG2	2:H:627:ARG:NH2	2.79	0.45
3:I:899:LEU:HD12	3:I:900:ILE:HG23	1.98	0.45
2:C:449:ILE:CG1	2:C:450:GLY:N	2.80	0.45
2:M:433:THR:CG2	2:M:488:ALA:HB1	2.47	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:1415:VAL:O	3:I:1417:TRP:HE3	1.99	0.45
3:N:1488:ASP:O	3:N:1491:THR:N	2.40	0.45
1:B:143:ARG:NH1	1:B:158:ILE:HG23	2.31	0.45
2:C:640:ARG:HG2	2:C:640:ARG:HH11	1.81	0.45
3:D:1063:GLU:CD	3:D:1064:GLY:H	2.20	0.45
1:F:179:PHE:CD1	1:F:179:PHE:O	2.69	0.45
2:H:1090:LYS:HA	2:H:1090:LYS:HD3	1.72	0.45
1:B:190:THR:O	1:B:190:THR:HG22	2.17	0.45
2:C:882:LEU:HD21	3:D:1038:LEU:HD22	1.98	0.45
3:D:813:LEU:O	3:D:817:GLU:CB	2.53	0.45
1:K:91:ASN:HD22	1:K:93:SER:HB3	1.82	0.45
3:I:835:SER:O	3:I:837:GLY:N	2.50	0.45
3:D:1053:PHE:CE1	3:D:1072:ILE:HG23	2.51	0.45
3:N:1031:ASN:HB3	3:N:1034:GLN:CG	2.46	0.45
4:O:48:MET:HB2	4:O:54:LEU:HB2	1.98	0.45
2:M:368:THR:O	2:M:372:LEU:HB2	2.17	0.45
3:D:353:VAL:HA	3:D:368:VAL:HG22	1.98	0.45
2:M:127:PHE:O	2:M:133:ASP:HA	2.16	0.45
3:I:563:PRO:HA	2:M:223:ASP:CB	2.38	0.45
1:A:168:ASP:CG	2:C:832:LYS:HZ1	2.20	0.45
3:D:458:ALA:HB2	3:D:575:GLN:HE22	1.80	0.45
1:A:82:LEU:O	1:A:85:LEU:HB3	2.17	0.45
1:L:186:LEU:O	1:L:186:LEU:HD23	2.17	0.45
3:D:879:ARG:HH21	3:D:903:ASP:C	2.20	0.45
2:M:274:ARG:CB	2:M:285:LEU:HD13	2.45	0.45
3:N:695:ILE:CD1	3:N:718:PRO:HB2	2.44	0.45
2:C:502:PRO:O	2:C:509:ALA:HB3	2.16	0.45
3:D:1441:GLN:NE2	3:D:1446:VAL:HG23	2.32	0.45
3:N:411:THR:HA	3:N:435:VAL:HG12	1.98	0.45
3:I:1312:LEU:HD23	3:I:1312:LEU:HA	1.77	0.45
1:L:28:LEU:O	1:L:192:LEU:CD2	2.64	0.45
2:C:94:LEU:HD12	2:C:95:TYR:N	2.31	0.45
1:B:19:GLU:O	1:B:200:TRP:HA	2.16	0.45
1:B:73:GLU:HG3	1:B:130:ALA:HA	1.97	0.45
2:H:48:PHE:CE2	2:H:71:TYR:HB3	2.52	0.45
7:Y:6:LYS:CD	7:Y:75:LEU:HD11	2.45	0.45
7:X:5:VAL:HG23	7:X:71:ARG:HH11	1.82	0.45
1:A:64:GLU:OE2	1:A:79:ILE:HD11	2.16	0.45
2:H:468:ARG:HG2	2:H:486:MET:C	2.37	0.45
3:N:1276:GLU:C	3:N:1277:ILE:HD12	2.37	0.45
3:D:1115:THR:CG2	3:D:1151:ARG:HH21	2.30	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:X:89:VAL:HG12	7:X:90:GLU:N	2.31	0.45
2:C:353:ARG:HH11	2:C:353:ARG:HG3	1.82	0.45
2:M:231:PRO:HB2	2:M:232:GLU:H	1.66	0.45
2:H:140:ILE:HA	2:H:332:ARG:O	2.16	0.45
2:H:174:LEU:CD2	2:H:184:MET:HG3	2.47	0.45
3:D:1098:LEU:HD23	3:D:1229:ILE:HB	1.99	0.45
3:I:889:ALA:CB	3:I:930:LEU:HA	2.46	0.45
3:I:910:SER:OG	3:I:911:LEU:HD12	2.17	0.45
2:M:878:SER:CA	3:N:1034:GLN:HE22	2.24	0.45
2:M:1037:VAL:HG13	2:M:1049:LEU:CD1	2.42	0.45
3:I:540:LEU:HD21	3:I:603:LEU:HD23	1.98	0.45
3:D:881:LEU:O	3:D:885:ILE:HG12	2.17	0.45
1:G:57:TYR:HB3	1:G:141:GLU:HG2	1.99	0.45
3:N:853:VAL:HG22	3:N:858:VAL:CG2	2.45	0.45
1:B:86:VAL:CG2	1:B:202:ASP:OD2	2.64	0.45
3:I:907:GLU:HG2	3:I:909:ASN:H	1.82	0.45
3:I:631:ILE:HG13	3:I:631:ILE:O	2.15	0.45
2:H:1008:ARG:HH12	2:H:1010:THR:HA	1.82	0.45
3:D:957:PRO:CD	3:D:1007:VAL:HG22	2.47	0.45
3:D:1112:CYS:HB2	3:D:1195:GLN:CG	2.47	0.45
3:I:704:ARG:HG3	3:I:705:ALA:N	2.31	0.45
3:I:650:LEU:CD1	3:I:657:LEU:HD22	2.47	0.45
2:H:313:LEU:HG	2:H:314:THR:N	2.29	0.45
1:A:91:ASN:ND2	1:A:93:SER:H	2.14	0.45
2:H:555:ALA:HB2	3:I:1070:TYR:CE2	2.52	0.45
3:N:19:ARG:HH11	3:N:19:ARG:HG2	1.82	0.45
1:L:181:VAL:HG12	1:L:181:VAL:O	2.16	0.45
2:M:1060:ILE:HA	2:M:1060:ILE:HD12	1.73	0.45
2:M:904:PRO:CD	2:M:908:GLY:HA2	2.39	0.45
1:F:101:LEU:HD12	1:F:113:ASP:C	2.37	0.45
2:M:443:THR:HA	2:M:444:PRO:HD3	1.74	0.45
3:N:62:LYS:CE	3:N:62:LYS:HA	2.45	0.45
2:C:94:LEU:HD12	2:C:94:LEU:C	2.36	0.45
3:N:1129:THR:CG2	3:N:1130:ARG:N	2.79	0.45
2:M:691:SER:O	2:M:693:GLU:N	2.50	0.45
2:M:458:TYR:CD1	2:M:458:TYR:N	2.85	0.45
3:I:1356:TYR:N	3:I:1356:TYR:HD1	2.15	0.45
3:I:1167:SER:N	3:I:1170:ASP:OD2	2.46	0.45
3:N:1492:LEU:O	3:N:1492:LEU:HD13	2.17	0.45
3:N:1350:GLU:OE2	3:N:1357:ARG:NH1	2.50	0.45
2:H:191:PHE:CZ	2:H:196:LEU:HD12	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:182:VAL:C	2:H:193:LEU:HD13	2.37	0.45
3:D:1093:TYR:O	3:D:1096:ARG:HB3	2.17	0.45
2:H:973:VAL:HG12	2:H:974:LEU:N	2.32	0.45
2:C:170:PRO:HG2	2:C:258:TYR:CD1	2.52	0.45
3:D:1463:LYS:O	3:D:1466:VAL:HB	2.16	0.45
1:K:21:GLY:HA3	1:K:207:PRO:HB3	1.98	0.45
3:N:909:ASN:O	3:N:912:LYS:HB3	2.16	0.45
3:N:799:LYS:HE2	3:N:801:GLY:H	1.82	0.45
3:I:939:PHE:O	3:I:943:THR:HG23	2.17	0.45
2:M:975:TYR:HA	2:M:982:PRO:HA	1.98	0.45
3:N:1007:VAL:HG11	3:N:1039:CYS:HB2	1.99	0.45
3:D:477:LEU:HD11	3:D:495:ARG:HG2	1.99	0.45
3:I:111:LYS:HG2	3:I:1448:THR:HG22	1.98	0.45
2:H:437:ARG:C	2:H:438:ILE:HG13	2.37	0.45
2:H:467:ILE:H	2:H:467:ILE:CD1	2.23	0.45
3:I:1465:ASN:ND2	3:I:1470:ARG:HB3	2.22	0.45
3:I:501:ALA:HB3	3:I:1452:ILE:CG2	2.44	0.45
2:H:115:LEU:HD13	2:H:375:SER:HA	1.99	0.45
2:H:382:ILE:CD1	2:H:382:ILE:N	2.79	0.45
1:F:79:ILE:HD12	1:F:80:LEU:CA	2.47	0.45
7:Y:111:ASN:OD1	7:Y:113:LEU:HB2	2.17	0.45
2:M:516:ARG:HH11	2:M:521:PRO:HB3	1.82	0.45
3:I:649:ALA:CB	3:I:691:LEU:HD21	2.47	0.45
3:D:982:PHE:HB2	3:D:983:LEU:CD2	2.44	0.45
3:N:686:GLU:O	3:N:689:ASP:HB2	2.17	0.45
3:N:15:PRO:HA	3:N:18:ILE:CD1	2.46	0.45
2:M:724:ARG:HD3	2:M:734:LEU:HD23	1.99	0.45
3:N:639:LEU:CD1	3:N:640:HIS:N	2.80	0.45
3:N:729:HIS:CD2	3:N:731:LEU:HB2	2.51	0.45
3:D:1441:GLN:NE2	3:D:1442:ASN:N	2.65	0.45
1:B:195:LEU:HD12	1:B:196:THR:N	2.32	0.45
2:M:575:GLN:C	2:M:667:ALA:HB1	2.38	0.45
2:C:158:TYR:CZ	2:C:313:LEU:HD11	2.52	0.45
3:N:1459:LEU:HD21	3:N:1468:LEU:HG	1.98	0.45
2:H:928:LYS:HZ3	2:H:932:GLU:HG2	1.79	0.45
2:M:1105:LYS:HZ2	2:M:1107:ASN:HB2	1.81	0.45
3:N:628:ARG:HH11	3:N:628:ARG:HG3	1.81	0.45
2:C:12:VAL:HG11	2:C:472:ARG:CD	2.46	0.45
2:M:471:TYR:HH	2:M:491:GLU:CD	2.19	0.45
1:K:83:LYS:HD3	1:K:168:ASP:HB2	1.99	0.45
3:D:1425:THR:HG22	3:D:1426:LYS:N	2.31	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1385:GLY:HA2	3:N:1413:THR:HG21	1.99	0.45
7:Z:76:GLU:O	7:Z:76:GLU:CG	2.65	0.45
2:C:833:LEU:HA	2:C:833:LEU:HD12	1.72	0.45
7:X:30:THR:O	7:X:31:LYS:C	2.55	0.45
2:M:1006:HIS:O	3:N:627:GLY:HA2	2.17	0.45
2:C:588:VAL:HG13	2:C:666:LEU:HB2	1.98	0.45
3:D:1094:LEU:HG	3:D:1098:LEU:HD13	1.99	0.45
3:D:1106:VAL:CG1	3:D:1107:VAL:N	2.64	0.45
3:I:1481:VAL:CG1	4:J:21:VAL:HG21	2.47	0.45
3:D:10:ILE:O	3:D:10:ILE:HG22	2.17	0.45
3:I:29:PRO:HB2	3:I:545:ARG:CG	2.46	0.45
2:C:578:VAL:HA	2:C:900:ARG:HG2	1.98	0.45
3:I:957:PRO:HG2	3:I:1007:VAL:HG22	1.97	0.45
3:D:729:HIS:HE1	3:D:731:LEU:HB2	1.77	0.45
2:M:191:PHE:CE2	2:M:238:LEU:HD21	2.52	0.45
2:H:383:ARG:CB	2:H:383:ARG:NH1	2.74	0.45
3:N:41:ARG:C	3:N:43:GLY:H	2.21	0.45
2:H:214:TYR:OH	2:H:312:ALA:HA	2.17	0.45
2:M:985:GLY:O	2:M:987:ILE:HD12	2.16	0.45
2:M:1000:MET:HG3	2:M:1000:MET:H	1.48	0.45
2:H:16:PRO:O	2:H:18:LEU:CD1	2.55	0.45
2:M:494:TYR:HB2	2:M:496:ILE:HD11	1.99	0.45
3:I:984:THR:CG2	3:I:987:GLU:HG3	2.46	0.45
2:C:543:ASN:ND2	2:C:562:SER:HB3	2.32	0.45
3:I:567:ILE:CG2	3:I:571:LYS:HE3	2.43	0.45
3:D:1441:GLN:HE21	3:D:1446:VAL:HG23	1.82	0.45
3:D:1440:PHE:O	3:D:1441:GLN:O	2.35	0.45
1:A:100:LEU:CD2	1:A:102:LYS:HE2	2.47	0.45
2:M:559:LEU:CD2	2:M:560:MET:N	2.80	0.45
2:H:449:ILE:O	2:H:451:LEU:HG	2.17	0.45
7:Z:153:ALA:C	7:Z:154:ILE:HG13	2.37	0.45
3:D:129:PHE:CE2	3:D:579:ASP:OD2	2.70	0.45
2:C:1068:GLU:O	2:C:1071:ILE:HB	2.16	0.45
3:D:984:THR:CG2	3:D:987:GLU:H	2.30	0.45
2:C:339:LEU:HD22	2:C:385:PHE:HZ	1.82	0.45
1:B:101:LEU:HD11	1:B:113:ASP:HB3	1.99	0.45
2:H:87:ASP:CG	2:H:824:ARG:HH21	2.21	0.45
1:B:153:ALA:HA	1:B:156:HIS:NE2	2.31	0.45
2:H:243:ARG:H	2:H:243:ARG:HG3	1.39	0.45
2:C:969:GLN:HE21	2:C:969:GLN:HB3	1.49	0.45
3:I:1078:ARG:HD3	3:I:1078:ARG:HA	1.74	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:61:GLY:HA3	3:I:64:LYS:NZ	2.32	0.45
3:D:1496:GLU:HB2	3:D:1499:ARG:NH2	2.31	0.45
4:E:6:ILE:HD11	4:E:10:PHE:CE2	2.52	0.45
1:L:102:LYS:HD2	1:L:139:ASN:ND2	2.32	0.45
2:H:288:ARG:NH1	2:H:288:ARG:CB	2.71	0.44
2:C:841:ASN:OD1	2:C:845:ASN:N	2.48	0.44
2:C:843:HIS:CD2	2:C:884:GLN:HA	2.52	0.44
2:C:840:ALA:O	2:C:995:MET:HG3	2.17	0.44
2:C:878:SER:O	3:D:1034:GLN:NE2	2.50	0.44
3:D:1068:LEU:O	3:D:1069:GLU:C	2.55	0.44
2:M:205:GLU:HG3	2:M:205:GLU:H	1.42	0.44
1:A:39:PRO:HA	1:B:35:THR:HG23	1.98	0.44
3:D:1468:LEU:CD2	3:D:1470:ARG:HB2	2.30	0.44
2:C:1090:LYS:CE	3:D:90:MET:SD	3.05	0.44
3:I:800:LYS:HD2	3:I:800:LYS:HA	1.59	0.44
2:C:333:ILE:HG13	2:C:410:ILE:CD1	2.44	0.44
3:N:792:ILE:HG13	3:N:860:LEU:HD13	2.00	0.44
2:H:544:THR:C	2:H:546:LEU:N	2.70	0.44
3:D:643:GLY:N	3:D:727:GLN:O	2.49	0.44
2:C:317:VAL:N	2:C:318:PRO:HD3	2.31	0.44
3:N:864:VAL:CG1	3:N:865:THR:N	2.60	0.44
3:I:135:LEU:C	3:I:135:LEU:HD23	2.38	0.44
1:L:215:VAL:CG2	1:L:216:GLU:N	2.80	0.44
2:H:1092:LEU:CB	2:H:1099:VAL:HG21	2.47	0.44
2:H:742:VAL:HG12	2:H:743:VAL:H	1.81	0.44
3:I:646:LYS:HG3	3:I:647:ARG:N	2.32	0.44
3:D:1441:GLN:NE2	3:D:1442:ASN:H	2.15	0.44
2:M:129:ILE:CD1	2:M:129:ILE:N	2.80	0.44
2:M:654:LEU:CD2	2:M:654:LEU:H	2.26	0.44
7:Z:83:ILE:HG12	7:Z:89:VAL:CG2	2.47	0.44
3:I:1093:TYR:HA	3:I:1096:ARG:CD	2.45	0.44
3:N:1274:ILE:HD11	3:N:1334:GLN:HE21	1.82	0.44
2:C:449:ILE:C	2:C:451:LEU:H	2.21	0.44
2:M:1063:ARG:NH1	2:M:1067:TYR:HB2	2.33	0.44
2:C:729:LEU:O	2:C:729:LEU:CG	2.65	0.44
3:I:765:SER:C	3:I:767:HIS:N	2.71	0.44
3:D:407:VAL:HA	3:D:422:ALA:HB2	1.98	0.44
2:H:27:ARG:HG3	2:H:27:ARG:HH11	1.82	0.44
2:C:364:GLU:OE1	2:C:364:GLU:HA	2.17	0.44
2:M:625:LEU:HD11	2:M:641:PRO:HG3	1.99	0.44
7:X:64:SER:O	7:X:68:ILE:HG12	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:181:VAL:CG1	2:H:182:VAL:N	2.80	0.44
1:F:42:ARG:CZ	2:H:857:ASP:HB3	2.44	0.44
2:C:1083:GLU:OE2	2:C:1086:ARG:HD2	2.17	0.44
3:I:835:SER:O	3:I:836:VAL:C	2.54	0.44
2:M:1036:GLU:O	2:M:1039:ALA:HB3	2.18	0.44
3:N:827:ILE:HA	3:N:836:VAL:HG13	1.98	0.44
3:N:829:VAL:O	3:N:835:SER:HB3	2.16	0.44
2:H:686:ASP:O	2:H:688:ILE:HD12	2.18	0.44
2:H:853:LEU:HB2	2:H:858:MET:HE2	1.94	0.44
3:D:162:ARG:CG	3:D:452:ILE:HG21	2.47	0.44
3:N:1254:GLN:OE1	3:N:1257:PRO:HG2	2.17	0.44
2:C:899:GLN:HG3	2:C:901:TYR:CZ	2.52	0.44
2:H:36:PRO:CG	2:H:70:GLU:HB3	2.48	0.44
1:G:78:ILE:O	1:G:82:LEU:HG	2.17	0.44
1:G:82:LEU:O	1:G:85:LEU:HB3	2.17	0.44
1:G:99:LEU:CB	1:G:142:VAL:HG23	2.47	0.44
2:C:96:ALA:O	2:C:98:LEU:CD1	2.66	0.44
2:C:922:PHE:CE1	2:C:964:LYS:HA	2.53	0.44
2:M:263:ASP:O	2:M:264:PRO:C	2.54	0.44
3:N:996:TRP:CG	3:N:1056:PRO:HG2	2.50	0.44
2:H:836:GLY:C	2:H:1001:VAL:CG2	2.85	0.44
1:L:77:GLU:CB	3:N:872:ARG:HH21	2.27	0.44
2:M:1097:LEU:HG	3:N:10:ILE:HD13	1.99	0.44
2:C:186:VAL:O	2:C:186:VAL:HG23	2.16	0.44
2:H:602:GLU:HA	2:H:647:GLN:O	2.18	0.44
2:M:937:ASP:OD2	2:M:938:LYS:N	2.50	0.44
2:M:572:ILE:HG12	2:M:701:THR:O	2.17	0.44
2:C:351:LEU:HD12	2:C:374:ASN:ND2	2.32	0.44
1:A:131:THR:C	1:A:132:LEU:HD12	2.38	0.44
3:D:550:ARG:NH2	3:D:573:MET:HE3	2.32	0.44
2:M:274:ARG:HG2	2:M:285:LEU:HB3	1.99	0.44
3:N:729:HIS:HE2	3:N:731:LEU:HB2	1.81	0.44
3:I:567:ILE:O	3:I:571:LYS:HG2	2.17	0.44
3:I:1301:LYS:HG3	3:I:1303:TYR:CZ	2.50	0.44
2:C:136:ILE:HG13	2:C:392:SER:OG	2.18	0.44
2:C:207:LEU:CD2	2:C:211:LEU:HD23	2.47	0.44
3:D:851:LEU:N	3:D:851:LEU:CD2	2.75	0.44
3:N:73:CYS:HB3	3:N:76:CYS:O	2.17	0.44
2:C:73:LEU:CD2	2:C:94:LEU:HB2	2.47	0.44
3:D:421:LEU:HD22	3:D:444:VAL:CG1	2.46	0.44
2:M:673:LEU:HD22	2:M:867:VAL:HG12	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:X:115:THR:CB	7:X:116:PRO:CD	2.95	0.44
2:C:1100:GLN:HE21	2:C:1100:GLN:HA	1.81	0.44
4:O:59:ASN:O	4:O:63:TRP:CD1	2.70	0.44
2:M:548:PRO:HG2	2:M:842:ARG:NH2	2.32	0.44
1:A:217:ILE:O	1:A:221:HIS:CD2	2.70	0.44
3:D:1464:GLU:HG2	3:D:1464:GLU:H	1.64	0.44
2:H:756:VAL:O	2:H:789:SER:HB3	2.17	0.44
2:M:636:ALA:HB2	2:M:703:ILE:HB	2.00	0.44
3:D:63:TYR:HB3	3:D:68:PHE:CE1	2.52	0.44
2:H:443:THR:HA	2:H:444:PRO:HD3	1.80	0.44
3:D:1093:TYR:CZ	3:D:1097:LYS:HG3	2.50	0.44
3:D:1107:VAL:HB	3:D:1219:GLU:H	1.82	0.44
3:D:1221:VAL:HG12	3:D:1370:ILE:HD13	2.00	0.44
3:D:1481:VAL:C	3:D:1483:PHE:N	2.70	0.44
3:I:1146:GLY:HA2	3:I:1207:TYR:CD1	2.52	0.44
2:C:1050:GLN:NE2	3:D:1469:GLY:O	2.50	0.44
3:I:827:ILE:O	3:I:828:LYS:HG3	2.18	0.44
3:N:158:TYR:C	3:N:158:TYR:CD1	2.89	0.44
2:H:557:ARG:NH1	2:H:557:ARG:HG3	2.31	0.44
3:D:820:GLU:CD	3:D:820:GLU:O	2.56	0.44
3:D:835:SER:O	3:D:838:ARG:HD2	2.17	0.44
3:I:87:ARG:O	3:I:88:TYR:HD2	2.00	0.44
3:D:433:GLY:CA	3:D:447:VAL:O	2.65	0.44
3:I:1264:GLU:HG2	3:I:1266:ARG:NH2	2.32	0.44
3:I:1263:PHE:CE1	3:I:1352:ILE:CD1	3.01	0.44
2:M:195:LEU:O	2:M:199:VAL:HG23	2.17	0.44
2:H:12:VAL:HG11	2:H:534:VAL:HG13	1.99	0.44
3:I:630:VAL:HG12	3:I:631:ILE:N	2.31	0.44
3:N:844:ALA:O	3:N:867:ARG:HB3	2.18	0.44
1:K:184:THR:HG22	1:K:185:ARG:H	1.82	0.44
3:I:131:LYS:CE	3:I:456:MET:SD	2.96	0.44
2:H:344:PHE:CE2	2:H:378:LEU:HD21	2.52	0.44
1:F:20:TYR:OH	1:F:198:ARG:CD	2.64	0.44
3:N:1068:LEU:O	3:N:1069:GLU:C	2.55	0.44
1:L:86:VAL:O	1:L:86:VAL:CG1	2.62	0.44
3:N:1109:GLU:CD	3:N:1202:GLN:H	2.21	0.44
2:H:447:ALA:O	2:H:448:ASN:CB	2.57	0.44
3:D:1288:GLU:O	3:D:1307:LYS:HG2	2.18	0.44
3:I:676:MET:SD	3:I:684:LYS:HE3	2.57	0.44
1:L:73:GLU:OE1	1:L:131:THR:N	2.50	0.44
3:D:1153:VAL:HG12	3:D:1155:VAL:CG2	2.43	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:56:VAL:CG2	1:B:142:VAL:HG12	2.45	0.44
2:M:328:LEU:HD22	2:M:437:ARG:HD3	1.99	0.44
2:M:470:PRO:HD3	2:M:485:TYR:HE2	1.82	0.44
2:C:342:ASP:O	2:C:345:ARG:HG2	2.17	0.44
1:K:99:LEU:HD21	1:K:122:ILE:HD11	1.98	0.44
4:O:27:ALA:O	4:O:30:LEU:HB2	2.17	0.44
2:H:111:ASP:O	2:H:112:GLU:CG	2.66	0.44
2:C:775:ARG:NH1	2:C:782:ALA:HB1	2.33	0.44
1:K:179:PHE:CD1	1:K:179:PHE:C	2.90	0.44
2:M:596:TYR:N	2:M:596:TYR:CD1	2.84	0.44
2:H:913:GLU:O	2:H:916:GLU:HB3	2.17	0.44
2:H:217:LEU:H	2:H:217:LEU:HG	1.42	0.44
3:N:935:LYS:HB3	3:N:935:LYS:HE2	1.85	0.44
2:H:483:VAL:HG12	2:H:484:VAL:N	2.32	0.44
3:I:972:LEU:O	3:I:976:GLN:HG3	2.17	0.44
3:D:1495:ILE:HG13	4:E:80:VAL:HG13	1.99	0.44
3:D:1109:GLU:HG2	3:D:1202:GLN:N	2.32	0.44
3:D:1207:TYR:CE1	3:D:1212:ALA:O	2.71	0.44
3:D:1370:ILE:HG13	3:D:1370:ILE:H	1.51	0.44
2:H:863:ASP:OD1	2:H:865:THR:HG22	2.17	0.44
2:H:926:PHE:O	2:H:929:ARG:HB2	2.16	0.44
2:C:972:VAL:HG23	2:C:973:VAL:O	2.16	0.44
3:I:786:ILE:O	3:I:787:LEU:C	2.56	0.44
3:I:794:GLN:CD	3:I:795:VAL:H	2.18	0.44
1:K:58:ILE:HB	1:K:61:VAL:HB	1.98	0.44
3:D:799:LYS:HD3	3:D:826:PRO:HG2	2.00	0.44
3:D:704:ARG:HH12	3:D:743:ASP:HB3	1.83	0.44
3:I:1055:VAL:HA	3:I:1056:PRO:HD3	1.72	0.44
3:I:1264:GLU:OE2	3:I:1423:GLY:HA3	2.17	0.44
2:M:267:TYR:CD1	2:M:272:ALA:HB1	2.52	0.44
2:M:412:ALA:HB1	2:M:419:THR:HG21	1.99	0.44
3:D:1273:VAL:HG21	3:D:1305:LEU:HD21	1.99	0.44
2:C:354:GLY:O	2:C:358:ARG:HD3	2.17	0.44
1:G:185:ARG:C	1:G:185:ARG:CD	2.83	0.44
2:H:838:LYS:HZ2	2:H:846:LYS:NZ	2.16	0.44
3:N:729:HIS:C	3:N:729:HIS:CD2	2.91	0.44
2:M:553:ASP:OD1	2:M:843:HIS:ND1	2.50	0.44
3:D:400:VAL:CG1	3:D:400:VAL:O	2.65	0.44
3:D:1197:ARG:CG	3:D:1198:TYR:H	2.31	0.44
3:D:1395:LEU:C	3:D:1395:LEU:CD2	2.86	0.44
7:Y:26:LEU:CD1	7:Y:55:LYS:HG3	2.47	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:J:39:VAL:HG22	4:J:67:GLU:OE2	2.18	0.44
3:I:93:ILE:HG22	3:I:551:ASN:HD22	1.82	0.44
3:D:1353:GLN:HB3	3:D:1357:ARG:NE	2.33	0.44
3:N:36:THR:C	3:N:38:LYS:H	2.21	0.44
2:M:625:LEU:CD1	2:M:641:PRO:HG3	2.47	0.44
2:C:903:SER:OG	2:C:908:GLY:HA3	2.18	0.44
2:C:357:GLU:O	2:C:360:LEU:HG	2.18	0.44
1:G:138:LEU:HD23	1:G:138:LEU:O	2.18	0.44
3:N:31:THR:OG1	3:N:32:ILE:N	2.49	0.44
2:H:911:GLU:HB3	2:H:912:PRO:HD3	1.99	0.44
3:D:1037:GLN:OE1	3:D:1042:ARG:NH1	2.50	0.44
3:D:1329:ALA:CA	3:D:1330:ILE:HD12	2.47	0.44
4:J:13:VAL:CG1	4:J:18:ARG:HB3	2.46	0.44
1:K:18:ARG:O	1:K:207:PRO:HD3	2.17	0.44
3:I:804:LEU:HD22	3:I:829:VAL:CB	2.43	0.44
2:C:1060:ILE:HG23	2:C:1061:GLU:H	1.83	0.44
3:D:30:GLU:HB3	3:D:40:GLU:CB	2.46	0.44
2:C:267:TYR:O	2:C:268:ASP:C	2.56	0.44
2:C:289:THR:C	2:C:291:ALA:N	2.66	0.44
4:O:54:LEU:CB	4:O:58:PRO:HG2	2.46	0.44
3:D:1144:LEU:HD13	3:D:1174:LEU:CD1	2.47	0.44
3:D:829:VAL:O	3:D:835:SER:HB3	2.18	0.44
3:N:1372:VAL:HG23	3:N:1375:MET:CE	2.47	0.44
2:H:52:PHE:CE1	2:H:67:ASP:OD1	2.70	0.44
3:N:1389:LEU:H	3:N:1389:LEU:HG	1.29	0.44
2:M:80:GLN:HG2	2:M:80:GLN:H	1.58	0.44
2:C:304:LEU:HD23	2:C:304:LEU:H	1.82	0.44
3:N:996:TRP:O	3:N:999:THR:N	2.50	0.44
3:N:28:LYS:HB2	3:N:41:ARG:CZ	2.48	0.44
3:N:41:ARG:O	3:N:46:ASP:HB2	2.18	0.44
3:N:501:ALA:CB	3:N:1453:ALA:HB2	2.47	0.44
2:H:442:GLU:HG2	2:H:454:SER:OG	2.17	0.44
3:I:701:LEU:N	3:I:701:LEU:CD1	2.76	0.44
3:N:683:ILE:HG21	3:N:688:TRP:CZ2	2.51	0.44
2:C:89:THR:HB	2:C:129:ILE:O	2.16	0.44
3:N:1120:VAL:HG23	3:N:1188:VAL:HG11	2.00	0.44
3:N:1118:ILE:HD11	3:N:1193:THR:HG23	1.99	0.44
1:K:54:THR:HG22	1:K:158:ILE:CG1	2.39	0.44
1:F:58:ILE:CG2	1:F:61:VAL:HG23	2.48	0.44
3:N:362:GLU:O	3:N:379:ALA:HB1	2.18	0.44
2:C:221:LEU:O	2:C:223:ASP:N	2.50	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:Z:43:TYR:HB3	7:Z:44:ASP:H	1.50	0.44
3:D:172:PRO:HG2	3:D:175:VAL:CG2	2.47	0.44
2:M:1090:LYS:HD3	2:M:1093:GLN:HG3	1.98	0.44
3:N:1128:VAL:O	3:N:1128:VAL:HG12	2.17	0.44
3:N:1159:ARG:CG	3:N:1159:ARG:HH11	2.30	0.44
2:M:556:ASN:OD1	7:Z:45:ASP:HA	2.17	0.44
2:M:1105:LYS:HZ3	2:M:1107:ASN:HB2	1.82	0.44
1:A:80:LEU:C	1:A:80:LEU:HD23	2.37	0.44
2:H:1052:MET:HA	2:H:1056:LYS:CD	2.48	0.44
3:I:171:LEU:HD21	3:I:192:ALA:HB3	1.98	0.44
2:C:86:LYS:NZ	2:C:811:PRO:HB2	2.33	0.44
2:M:483:VAL:HG12	2:M:484:VAL:N	2.32	0.44
3:I:762:GLN:NE2	4:J:20:THR:OG1	2.50	0.44
2:C:666:LEU:CG	2:C:668:LEU:HD11	2.36	0.44
2:C:667:ALA:C	2:C:668:LEU:HD12	2.37	0.44
2:C:838:LYS:HD3	2:C:846:LYS:HZ3	1.83	0.44
3:D:791:TYR:CD1	3:D:1022:VAL:HG11	2.53	0.44
3:D:1094:LEU:HD11	3:D:1098:LEU:HD11	2.00	0.44
3:D:1262:LEU:HB3	3:D:1352:ILE:HD11	1.99	0.44
1:K:45:LEU:CD1	1:K:45:LEU:N	2.81	0.44
3:I:789:LEU:HD13	3:I:911:LEU:HD21	1.99	0.44
3:N:142:LEU:HD23	3:N:144:GLY:C	2.37	0.44
3:N:148:GLU:CB	3:N:151:GLN:HB2	2.48	0.44
3:N:156:GLU:HB2	3:N:157:GLU:OE2	2.17	0.44
3:N:911:LEU:O	3:N:914:LEU:HB3	2.17	0.44
3:I:633:VAL:O	3:I:635:PRO:HD3	2.18	0.44
3:D:800:LYS:CE	3:D:804:LEU:HD22	2.48	0.44
3:D:392:SER:O	3:D:393:ILE:HD12	2.16	0.44
2:C:886:LEU:HA	2:C:886:LEU:HD12	1.45	0.44
2:C:1001:VAL:HG13	2:C:1004:LYS:CB	2.48	0.44
3:N:841:TYR:HB3	3:N:843:PHE:CZ	2.53	0.44
2:M:26:TYR:OH	2:M:340:MET:HE2	2.18	0.44
2:C:670:GLN:HB2	2:C:700:TYR:HE1	1.82	0.44
3:I:1365:ASP:O	3:I:1366:LYS:C	2.55	0.44
3:D:581:LEU:N	3:D:581:LEU:HD23	2.32	0.44
3:N:646:LYS:HG3	3:N:647:ARG:HG3	1.99	0.44
2:M:1021:LEU:HD12	2:M:1021:LEU:H	1.82	0.44
2:M:723:THR:OG1	2:M:724:ARG:N	2.51	0.44
1:B:165:ILE:HA	1:B:166:PRO:HD3	1.69	0.44
1:A:161:ARG:HB2	1:A:161:ARG:HH11	1.79	0.44
2:C:26:TYR:HA	2:C:29:ALA:HB3	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:135:VAL:HG21	2:C:406:HIS:HD2	1.82	0.44
3:D:470:LEU:H	3:D:470:LEU:HD23	1.83	0.44
7:Z:83:ILE:HD13	7:Z:89:VAL:HG21	1.98	0.44
3:N:1459:LEU:HD22	3:N:1470:ARG:NH2	2.32	0.44
2:H:26:TYR:CE2	2:H:30:LEU:HD21	2.53	0.44
2:M:1089:VAL:O	2:M:1093:GLN:HG2	2.17	0.44
2:M:717:LEU:HD13	2:M:763:GLY:O	2.18	0.44
3:D:1137:ARG:NH2	3:D:1172:HIS:NE2	2.65	0.44
1:G:111:ALA:O	1:G:114:PHE:HD1	2.00	0.44
3:I:1377:LYS:HE2	3:I:1378:TYR:CZ	2.53	0.44
2:H:145:GLY:H	2:H:163:ILE:HG23	1.83	0.44
2:H:207:LEU:O	2:H:211:LEU:HB3	2.18	0.44
3:D:1209:LEU:HD12	3:D:1216:SER:H	1.82	0.44
3:D:1348:LEU:N	3:D:1348:LEU:CD1	2.80	0.44
4:J:13:VAL:HG21	4:J:19:LEU:HB2	2.00	0.44
2:C:263:ASP:HB2	2:C:264:PRO:HD3	2.00	0.44
2:C:1032:PHE:CD1	2:C:1052:MET:HG2	2.52	0.44
3:I:820:GLU:HG2	3:I:836:VAL:HG11	1.99	0.44
3:I:827:ILE:CG2	3:I:827:ILE:O	2.56	0.44
2:C:270:GLY:HA2	2:C:274:ARG:HD2	2.00	0.44
2:H:682:TYR:O	2:H:687:ALA:HB1	2.18	0.44
2:H:1094:ALA:HB1	3:I:603:LEU:HD11	2.00	0.44
3:D:833:GLU:O	3:D:834:THR:HG23	2.18	0.44
1:B:83:LYS:NZ	3:D:842:VAL:O	2.36	0.44
3:D:866:VAL:HG11	3:D:880:ILE:HD11	1.99	0.44
2:M:110:GLU:OE2	2:M:112:GLU:OE2	2.35	0.44
2:M:836:GLY:CA	2:M:1001:VAL:HG21	2.36	0.44
1:G:56:VAL:CG2	1:G:142:VAL:HG12	2.29	0.44
2:C:106:GLY:C	2:C:107:LEU:HD23	2.38	0.44
2:M:44:ILE:HD13	2:M:344:PHE:CD1	2.53	0.44
2:M:865:THR:HA	2:M:866:PRO:HD3	1.82	0.44
2:H:12:VAL:HG22	2:H:13:ILE:HG22	1.95	0.44
2:H:836:GLY:C	2:H:1001:VAL:HG21	2.38	0.44
3:N:1452:ILE:HD12	3:N:1452:ILE:N	2.32	0.44
3:N:1288:GLU:O	3:N:1307:LYS:HG2	2.18	0.44
2:H:539:VAL:C	2:H:540:PHE:CD2	2.91	0.44
2:M:762:LYS:HE3	2:M:786:LYS:HE2	2.00	0.44
3:N:52:PRO:HG3	3:N:78:VAL:CG1	2.45	0.44
2:M:552:HIS:CD2	2:M:886:LEU:HD22	2.53	0.44
2:M:1019:GLN:HB2	2:M:1021:LEU:CD1	2.46	0.44
1:G:184:THR:CG2	1:G:194:LYS:HB2	2.48	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:479:GLU:O	3:D:483:HIS:ND1	2.44	0.44
1:F:73:GLU:HB2	1:F:78:ILE:HD11	2.00	0.44
3:I:1197:ARG:HD3	3:I:1198:TYR:CD1	2.53	0.44
3:I:1197:ARG:CG	3:I:1198:TYR:H	2.31	0.44
1:A:45:LEU:HD11	1:A:177:VAL:HB	2.00	0.44
3:N:405:ASP:N	3:N:423:ASP:OD1	2.40	0.44
3:I:1312:LEU:HG	3:I:1327:ARG:HD3	2.00	0.44
3:N:1149:LEU:CG	3:N:1166:LEU:HD22	2.46	0.44
3:D:989:TYR:CD2	3:D:993:LEU:HD11	2.53	0.44
2:H:610:ARG:C	2:H:611:ILE:HD13	2.38	0.44
3:I:857:ILE:H	3:I:857:ILE:HD12	1.70	0.44
2:M:374:ASN:C	2:M:374:ASN:HD22	2.21	0.44
3:D:701:LEU:HD21	3:D:763:MET:HE1	2.00	0.44
1:B:99:LEU:HB2	1:B:142:VAL:HG23	2.00	0.44
2:C:428:ARG:O	3:D:1078:ARG:NH1	2.51	0.44
3:N:1189:ARG:HD2	3:N:1204:CYS:SG	2.58	0.44
1:G:222:LEU:HA	1:G:222:LEU:HD23	1.87	0.44
3:I:639:LEU:CD1	3:I:640:HIS:N	2.81	0.44
7:Z:146:ARG:HE	7:Z:146:ARG:HB3	1.50	0.44
2:M:748:GLU:HG2	2:M:748:GLU:O	2.17	0.44
3:N:1278:ASP:HB3	3:N:1321:ALA:N	2.32	0.44
2:H:601:GLY:HA2	2:H:616:GLU:HG2	1.98	0.44
2:H:159:ILE:HG22	2:H:175:GLU:HG3	1.99	0.44
3:I:490:ALA:O	3:I:493:ARG:HG3	2.17	0.44
3:I:1194:CYS:HB3	3:I:1373:ARG:HH12	1.83	0.44
3:I:1207:TYR:CD2	3:I:1212:ALA:O	2.71	0.44
4:J:27:ALA:O	4:J:30:LEU:HB2	2.17	0.44
3:D:148:GLU:N	3:D:148:GLU:OE2	2.50	0.44
3:I:206:ARG:HH11	3:I:206:ARG:HG3	1.83	0.44
2:M:205:GLU:HB3	2:M:209:ARG:NH1	2.31	0.44
3:D:522:PRO:HA	3:D:525:ARG:NH1	2.33	0.44
3:N:1031:ASN:HD21	7:Z:32:ILE:CG2	2.31	0.44
3:N:826:PRO:C	3:N:828:LYS:H	2.21	0.44
3:I:784:ASP:HB3	3:I:939:PHE:HE2	1.81	0.44
1:G:30:ARG:HB3	1:G:30:ARG:NH1	2.32	0.44
3:N:1205:TYR:CE1	3:N:1221:VAL:CG1	3.00	0.44
3:N:1254:GLN:O	3:N:1255:GLY:O	2.35	0.44
2:H:1101:THR:HG21	2:H:1111:ILE:HG23	1.96	0.44
2:C:113:VAL:CG1	2:C:373:VAL:HG11	2.48	0.44
3:I:1095:THR:OG1	3:I:1230:GLY:HA3	2.18	0.44
3:N:843:PHE:HB2	3:N:866:VAL:HG22	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:860:HIS:HA	2:M:866:PRO:HA	1.99	0.44
2:C:544:THR:O	2:C:546:LEU:N	2.50	0.44
3:N:806:PHE:C	3:N:808:THR:N	2.71	0.44
3:D:700:VAL:HB	3:D:748:HIS:O	2.18	0.44
2:M:1088:LEU:HD23	2:M:1092:LEU:CD1	2.48	0.44
3:D:465:LEU:CD1	3:D:509:PRO:O	2.66	0.44
1:A:150:TYR:CD1	2:C:696:LYS:HG2	2.53	0.44
2:M:677:MET:C	2:M:873:PRO:HD3	2.38	0.44
2:H:263:ASP:O	2:H:264:PRO:C	2.52	0.44
3:I:650:LEU:HA	3:I:650:LEU:HD12	1.60	0.44
3:I:712:GLY:C	3:I:713:ILE:HG13	2.38	0.44
3:D:160:GLU:OE1	3:D:161:LEU:CD1	2.58	0.44
3:I:1313:VAL:HG21	3:I:1319:VAL:HG11	1.99	0.44
3:N:402:PRO:CA	3:N:443:VAL:HG23	2.48	0.44
2:M:722:ILE:HD13	2:M:741:GLY:HA3	2.00	0.44
2:M:172:ILE:CD1	2:M:172:ILE:N	2.72	0.44
7:Z:43:TYR:O	7:Z:44:ASP:C	2.54	0.44
2:H:700:TYR:HD2	2:H:996:LYS:HB2	1.83	0.44
3:N:12:LEU:HD21	3:N:104:PHE:CE1	2.52	0.44
2:M:688:ILE:N	2:M:688:ILE:HD12	2.32	0.44
3:I:895:VAL:O	3:I:899:LEU:HG	2.18	0.44
3:N:1124:GLN:HA	3:N:1125:PRO:HD3	1.85	0.44
2:M:630:ARG:HD2	2:M:634:GLY:HA2	1.98	0.44
2:H:668:LEU:N	2:H:668:LEU:CD1	2.77	0.44
7:Z:48:LEU:HA	7:Z:48:LEU:HD13	1.77	0.44
2:H:468:ARG:HD3	2:H:485:TYR:O	2.17	0.44
1:G:227:ASN:HA	1:G:228:PRO:HD3	1.80	0.44
7:X:144:LYS:HE3	7:X:144:LYS:HB2	1.74	0.44
2:C:145:GLY:H	2:C:163:ILE:HG23	1.83	0.44
2:H:361:MET:CE	3:N:1314:LYS:HZ2	2.31	0.44
2:H:139:GLN:NE2	2:H:415:PRO:HD3	2.33	0.44
2:C:559:LEU:C	2:C:559:LEU:HD23	2.38	0.44
2:C:559:LEU:HD23	2:C:560:MET:N	2.32	0.44
3:D:1484:THR:HG21	4:E:18:ARG:HD2	2.00	0.44
1:G:36:LEU:C	1:G:39:PRO:HD2	2.38	0.44
3:I:792:ILE:HG13	3:I:860:LEU:HD13	2.00	0.44
3:N:882:PHE:O	3:N:886:VAL:HG23	2.18	0.44
3:N:907:GLU:HG2	3:N:909:ASN:H	1.82	0.44
2:M:368:THR:CB	2:M:369:PRO:CD	2.91	0.44
3:N:1098:LEU:HD21	3:N:1229:ILE:CB	2.45	0.44
3:N:1101:VAL:CG1	3:N:1424:VAL:O	2.66	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1256:LEU:O	3:N:1259:VAL:N	2.51	0.44
3:D:210:ARG:N	3:D:389:GLU:HB2	2.32	0.44
3:D:177:ALA:N	3:D:388:HIS:O	2.48	0.44
2:C:54:ILE:CD1	2:C:355:VAL:CG1	2.96	0.44
2:C:68:PHE:C	2:C:69:LEU:HD23	2.39	0.44
3:I:133:ILE:CG2	3:I:134:VAL:N	2.80	0.44
2:M:1086:ARG:HG3	2:M:1111:ILE:HD12	1.99	0.44
2:C:952:LEU:N	2:C:952:LEU:CD2	2.81	0.44
2:H:878:SER:CA	3:I:1034:GLN:HE22	2.29	0.44
2:C:184:MET:HE2	2:C:186:VAL:HG13	2.00	0.44
2:H:603:VAL:HB	2:H:646:GLY:H	1.83	0.44
2:M:873:PRO:HB3	3:N:949:ILE:CD1	2.47	0.44
2:M:704:HIS:CB	2:M:831:ARG:HE	2.30	0.44
3:D:481:MET:SD	3:D:1388:ARG:CG	3.04	0.44
3:I:1364:HIS:ND1	3:I:1365:ASP:N	2.65	0.44
2:M:516:ARG:CG	3:N:1068:LEU:HD13	2.47	0.44
2:H:158:TYR:CZ	2:H:313:LEU:HD11	2.53	0.44
3:I:987:GLU:OE1	7:Y:120:SER:CB	2.66	0.44
3:I:1066:THR:HG22	3:I:1069:GLU:CB	2.45	0.44
2:H:89:THR:CA	2:H:129:ILE:O	2.59	0.44
1:B:44:LEU:C	1:B:48:ILE:HD13	2.38	0.44
2:H:896:PHE:CE2	2:H:925:TYR:CB	3.01	0.44
2:M:560:MET:O	2:M:564:MET:HG2	2.17	0.44
2:C:630:ARG:HH11	2:C:630:ARG:CG	2.31	0.44
2:M:850:ALA:HA	3:N:632:VAL:HG11	2.00	0.44
2:H:95:TYR:N	2:H:95:TYR:CD1	2.85	0.44
2:H:816:LYS:O	2:H:819:VAL:HB	2.17	0.44
1:K:99:LEU:CD2	1:K:122:ILE:HD11	2.48	0.44
3:D:1256:LEU:HD12	3:D:1256:LEU:O	2.18	0.44
2:C:294:GLU:O	2:C:295:ASP:HB2	2.17	0.44
1:K:175:ARG:HE	1:K:176:ARG:HB3	1.81	0.44
1:K:26:GLU:CB	1:K:27:PRO:HA	2.48	0.44
3:D:1426:LYS:O	3:D:1426:LYS:HG2	2.18	0.44
2:C:523:ILE:HG23	2:C:523:ILE:O	2.18	0.44
7:Z:20:GLU:HA	7:Z:20:GLU:OE1	2.18	0.44
2:M:463:GLU:HA	2:M:463:GLU:OE2	2.18	0.44
3:D:1346:ARG:HD2	3:D:1346:ARG:HA	1.84	0.44
1:K:31:GLY:O	1:K:34:VAL:HG12	2.18	0.44
2:M:511:GLU:O	2:M:526:PRO:HD3	2.17	0.44
2:H:1006:HIS:O	3:I:627:GLY:HA2	2.18	0.44
3:D:520:LEU:HD21	3:D:524:LEU:HB3	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1047:LYS:NZ	3:D:1053:PHE:HA	2.32	0.43
3:N:987:GLU:HA	3:N:987:GLU:OE2	2.18	0.43
3:N:1481:VAL:C	3:N:1483:PHE:N	2.72	0.43
2:H:691:SER:C	2:H:693:GLU:N	2.71	0.43
3:N:1259:VAL:O	3:N:1263:PHE:HD1	2.01	0.43
3:D:434:ARG:HB3	3:D:447:VAL:HG23	2.00	0.43
1:G:58:ILE:HB	1:G:61:VAL:CB	2.47	0.43
3:I:1229:ILE:HG22	3:I:1229:ILE:O	2.18	0.43
2:C:983:ILE:O	2:C:984:GLU:C	2.56	0.43
3:D:926:LYS:O	3:D:929:ARG:HB2	2.18	0.43
3:I:1040:GLY:O	3:I:1060:SER:HB3	2.18	0.43
3:N:1447:LEU:HD12	3:N:1447:LEU:N	2.33	0.43
3:N:1451:ALA:O	3:N:1452:ILE:C	2.56	0.43
3:D:508:ARG:HB3	3:D:509:PRO:HD2	1.99	0.43
3:I:1256:LEU:O	3:I:1259:VAL:N	2.51	0.43
3:I:143:ASN:ND2	3:I:143:ASN:N	2.66	0.43
3:I:158:TYR:HE1	3:I:452:ILE:HD11	1.82	0.43
2:M:249:LYS:HB3	2:M:250:ARG:H	1.58	0.43
2:H:577:PRO:HG3	2:H:993:PHE:CD1	2.52	0.43
2:M:1009:SER:OG	2:M:1010:THR:N	2.51	0.43
3:D:875:THR:CG2	3:D:879:ARG:CB	2.95	0.43
3:N:699:VAL:HB	3:N:716:PHE:O	2.18	0.43
3:N:759:ALA:HA	3:N:763:MET:HE2	2.00	0.43
1:G:128:HIS:CE1	1:G:131:THR:HG23	2.52	0.43
2:M:553:ASP:OD2	2:M:881:ASN:HA	2.18	0.43
3:D:996:TRP:O	3:D:999:THR:N	2.51	0.43
3:I:669:ASN:ND2	3:I:672:ALA:H	2.15	0.43
2:M:901:TYR:N	2:M:901:TYR:CD1	2.86	0.43
3:D:149:LYS:HE3	3:D:149:LYS:N	2.33	0.43
1:F:49:PRO:CA	1:F:148:VAL:HG22	2.48	0.43
3:D:1161:GLU:CG	3:D:1164:ARG:HB2	2.46	0.43
2:H:575:GLN:HB3	2:H:671:ASN:ND2	2.32	0.43
1:A:19:GLU:N	1:A:19:GLU:OE1	2.50	0.43
7:X:5:VAL:CG1	7:X:72:ALA:HB2	2.47	0.43
3:I:1358:ALA:O	7:Y:55:LYS:NZ	2.47	0.43
2:M:36:PRO:HG2	2:M:70:GLU:HB3	2.00	0.43
3:I:93:ILE:CG2	3:I:551:ASN:HD22	2.30	0.43
3:I:922:LEU:N	3:I:922:LEU:CD2	2.81	0.43
3:D:633:VAL:O	3:D:635:PRO:HD3	2.18	0.43
1:F:106:PRO:HG3	1:F:134:GLU:CD	2.38	0.43
2:M:128:ILE:HD12	2:M:128:ILE:N	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:494:TYR:CD1	2:C:494:TYR:N	2.86	0.43
3:D:1319:VAL:HG23	3:D:1319:VAL:O	2.18	0.43
1:L:60:ASP:N	1:L:60:ASP:OD2	2.51	0.43
7:X:77:GLU:O	7:X:77:GLU:HG3	2.18	0.43
2:C:620:LEU:O	2:C:620:LEU:HD12	2.18	0.43
3:N:982:PHE:HD2	3:N:982:PHE:O	2.00	0.43
2:H:495:THR:CG2	2:H:517:ARG:HE	2.29	0.43
3:I:206:ARG:HH21	3:I:441:ARG:HH21	1.62	0.43
2:C:1036:GLU:O	2:C:1039:ALA:HB3	2.18	0.43
1:K:41:ARG:HG3	1:K:177:VAL:HG12	1.99	0.43
1:K:88:ARG:NH1	1:K:90:LEU:CD1	2.71	0.43
1:K:89:PHE:HD2	1:K:94:LEU:O	1.99	0.43
3:I:804:LEU:CD2	3:I:831:GLY:CA	2.94	0.43
3:I:827:ILE:HA	3:I:836:VAL:CG1	2.48	0.43
3:N:860:LEU:HD22	3:N:878:GLY:N	2.33	0.43
3:N:493:ARG:CG	3:N:494:LYS:N	2.81	0.43
3:N:1466:VAL:O	3:N:1469:GLY:N	2.50	0.43
3:D:441:ARG:NH1	3:D:445:ARG:CZ	2.80	0.43
2:M:68:PHE:CD1	2:M:69:LEU:N	2.86	0.43
2:C:708:TYR:HE2	2:C:793:PRO:HG2	1.83	0.43
3:I:1037:GLN:OE1	3:I:1042:ARG:NH1	2.50	0.43
2:M:141:HIS:N	2:M:141:HIS:CD2	2.85	0.43
2:M:143:SER:O	2:M:144:PRO:C	2.55	0.43
1:L:215:VAL:HG23	1:L:216:GLU:N	2.32	0.43
3:D:465:LEU:HD22	3:D:510:GLU:N	2.33	0.43
2:H:395:LYS:HD3	2:H:397:GLU:OE2	2.17	0.43
2:C:691:SER:C	2:C:693:GLU:N	2.70	0.43
2:C:701:THR:CG2	2:C:832:LYS:HG2	2.48	0.43
2:H:455:LEU:CD1	2:H:456:ALA:O	2.62	0.43
3:N:970:LYS:O	3:N:973:GLN:HG2	2.18	0.43
3:N:654:LYS:O	3:N:658:LEU:HG	2.18	0.43
2:M:739:GLU:HB2	2:M:742:VAL:HB	2.00	0.43
2:H:897:LEU:HD21	2:H:921:ALA:N	2.34	0.43
2:M:442:GLU:HG3	2:M:442:GLU:O	2.19	0.43
2:M:445:GLU:OE2	7:Z:44:ASP:CG	2.57	0.43
3:I:511:TRP:N	3:I:511:TRP:CE3	2.86	0.43
3:N:581:LEU:O	3:N:603:LEU:HG	2.18	0.43
1:F:88:ARG:O	1:F:120:VAL:HG23	2.18	0.43
3:N:409:VAL:CG1	3:N:410:SER:N	2.80	0.43
1:K:65:PHE:CE1	2:M:799:ILE:HB	2.53	0.43
2:C:501:THR:HG21	2:C:513:VAL:HG13	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:1389:LEU:O	3:I:1390:LEU:HB2	2.17	0.43
3:I:1330:ILE:HG22	3:I:1331:ASP:N	2.34	0.43
3:D:1125:PRO:HB2	3:D:1126:ASP:H	1.59	0.43
3:I:936:TYR:HD1	3:I:937:TYR:CD1	2.36	0.43
1:F:174:VAL:CG1	1:F:200:TRP:O	2.66	0.43
3:D:63:TYR:HB3	3:D:68:PHE:CD1	2.52	0.43
2:H:365:ASP:CG	2:H:365:ASP:O	2.56	0.43
1:K:137:ARG:HG3	1:K:137:ARG:NH1	2.33	0.43
4:E:24:ALA:O	4:E:27:ALA:N	2.50	0.43
3:D:1024:ALA:HB2	3:D:1035:ILE:HD11	1.99	0.43
2:C:988:VAL:CG1	3:D:949:ILE:O	2.52	0.43
3:D:754:PHE:CZ	4:E:21:VAL:HA	2.54	0.43
1:F:32:PHE:CE1	1:G:221:HIS:NE2	2.86	0.43
3:I:1218:GLY:O	4:J:17:TYR:CE2	2.71	0.43
2:C:1032:PHE:CE2	2:C:1037:VAL:HG22	2.53	0.43
3:D:501:ALA:HB1	3:D:1452:ILE:HG22	2.00	0.43
3:I:820:GLU:CB	3:I:836:VAL:HG21	2.47	0.43
2:C:267:TYR:CB	2:C:272:ALA:HB1	2.42	0.43
3:N:95:LEU:HD22	3:N:574:LEU:HD21	1.99	0.43
3:N:860:LEU:HA	3:N:877:PRO:HB2	2.00	0.43
3:N:908:LYS:NZ	7:Z:35:GLU:CD	2.72	0.43
2:H:547:ILE:HA	2:H:548:PRO:HD3	1.82	0.43
3:N:490:ALA:O	3:N:493:ARG:HG3	2.17	0.43
2:C:897:LEU:CD2	2:C:921:ALA:HA	2.46	0.43
1:G:57:TYR:O	1:G:140:MET:HA	2.17	0.43
2:C:111:ASP:O	2:C:112:GLU:CD	2.56	0.43
3:I:1041:LEU:HB2	3:I:1059:SER:O	2.18	0.43
3:D:1305:LEU:HD12	3:D:1311:LEU:CD2	2.34	0.43
4:E:9:LEU:HD22	4:E:19:LEU:HD11	2.00	0.43
4:J:53:GLY:C	4:J:55:PHE:N	2.70	0.43
1:F:206:THR:CG2	1:F:209:GLU:HG3	2.36	0.43
2:C:1091:GLU:OE2	3:D:613:ARG:HG3	2.18	0.43
2:H:226:VAL:HG13	2:H:227:PHE:N	2.33	0.43
2:H:46:ALA:O	2:H:50:GLU:HG2	2.18	0.43
3:I:1108:ARG:HD3	3:I:1108:ARG:N	2.32	0.43
1:G:176:ARG:HG2	1:G:200:TRP:CE3	2.53	0.43
2:H:327:HIS:O	2:H:329:GLY:N	2.51	0.43
2:M:588:VAL:HG11	2:M:661:SER:HB2	1.98	0.43
2:C:1103:ASP:OD1	3:D:2:LYS:HG3	2.18	0.43
3:D:362:GLU:O	3:D:379:ALA:HB1	2.18	0.43
2:H:30:LEU:HA	2:H:44:ILE:HG13	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:58:ILE:HD11	1:B:140:MET:HE3	1.99	0.43
3:I:1336:LEU:CD1	3:I:1341:PRO:HG3	2.47	0.43
3:D:1257:PRO:HA	3:D:1260:ILE:CD1	2.47	0.43
3:I:1281:VAL:CG1	3:I:1282:ARG:N	2.81	0.43
2:M:486:MET:HE3	2:M:491:GLU:HA	1.99	0.43
2:C:806:LEU:HD13	2:C:813:VAL:HG21	2.00	0.43
3:I:638:LYS:O	3:I:640:HIS:N	2.50	0.43
2:M:343:GLN:NE2	2:M:343:GLN:CA	2.81	0.43
2:M:928:LYS:HA	2:M:928:LYS:HD2	1.85	0.43
3:N:1138:ALA:O	3:N:1141:GLU:HB2	2.19	0.43
1:L:31:GLY:N	1:L:193:ASP:OD1	2.52	0.43
2:C:682:TYR:O	2:C:850:ALA:HB3	2.18	0.43
3:D:1347:TYR:HD2	3:D:1348:LEU:HD12	1.83	0.43
1:F:38:ASN:HB3	1:F:39:PRO:HD3	2.00	0.43
4:J:19:LEU:HD12	4:J:23:VAL:HG23	2.00	0.43
2:C:455:LEU:HD13	2:C:459:ALA:HB3	2.00	0.43
1:K:92:PRO:C	1:K:94:LEU:N	2.70	0.43
1:B:74:ASP:O	1:B:75:VAL:C	2.55	0.43
3:D:58:CYS:HA	3:D:78:VAL:HG11	2.01	0.43
3:N:1356:TYR:H	3:N:1356:TYR:HD1	1.67	0.43
3:N:1356:TYR:N	3:N:1356:TYR:CD1	2.87	0.43
3:N:127:LEU:HD22	3:N:134:VAL:CG2	2.49	0.43
3:N:888:GLU:O	3:N:889:ALA:C	2.57	0.43
3:D:841:TYR:CD1	3:D:858:VAL:CG1	3.01	0.43
2:M:836:GLY:HA3	2:M:1001:VAL:CG2	2.34	0.43
2:C:113:VAL:O	2:C:115:LEU:CD2	2.66	0.43
3:N:1258:ARG:HH21	3:N:1351:GLU:HG2	1.83	0.43
2:H:379:GLU:O	2:H:383:ARG:HB3	2.19	0.43
3:D:509:PRO:O	3:D:512:MET:HB2	2.18	0.43
2:C:571:LEU:CD1	2:C:701:THR:N	2.77	0.43
2:C:184:MET:CE	2:C:186:VAL:CG1	2.97	0.43
2:M:831:ARG:HH12	2:M:1002:GLU:CG	2.31	0.43
2:M:670:GLN:HG3	2:M:700:TYR:CD1	2.53	0.43
3:I:1434:TRP:CZ3	3:I:1455:LYS:O	2.72	0.43
3:I:1135:ARG:CD	3:I:1139:ASP:HB2	2.37	0.43
3:I:160:GLU:OE2	3:I:165:LYS:HD2	2.18	0.43
3:N:1051:GLU:O	3:N:1051:GLU:HG3	2.18	0.43
3:D:462:GLN:O	3:D:466:LYS:HG3	2.19	0.43
2:H:537:LYS:HE2	2:H:537:LYS:HB2	1.82	0.43
3:N:1422:MET:HE3	3:N:1426:LYS:HE2	2.00	0.43
2:M:742:VAL:CG1	2:M:743:VAL:N	2.81	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:348:GLN:O	3:N:351:MET:HB2	2.18	0.43
2:M:146:VAL:CG2	2:M:162:ILE:HG13	2.45	0.43
1:K:182:GLU:CG	1:K:183:ASP:H	2.24	0.43
1:A:45:LEU:CD1	1:A:45:LEU:N	2.81	0.43
3:D:1437:ALA:HB3	3:D:1446:VAL:HG11	2.00	0.43
2:H:635:THR:O	2:H:637:LEU:HG	2.17	0.43
1:B:59:GLU:HG2	1:B:139:ASN:HB3	2.00	0.43
2:H:928:LYS:HZ1	2:H:932:GLU:HG2	1.83	0.43
1:L:87:VAL:CG2	1:L:144:VAL:HG11	2.44	0.43
2:M:682:TYR:O	2:M:850:ALA:HB3	2.18	0.43
1:G:44:LEU:O	1:G:48:ILE:HD12	2.19	0.43
1:L:58:ILE:HG12	1:L:140:MET:HB3	2.00	0.43
2:M:792:VAL:HA	2:M:793:PRO:HD3	1.86	0.43
2:M:177:GLU:OE2	2:M:179:ASN:HB2	2.18	0.43
2:C:1012:PRO:CD	2:C:1026:GLN:HB2	2.49	0.43
2:H:1014:SER:HB2	2:H:1021:LEU:CD1	2.49	0.43
7:X:141:ASP:OD2	7:X:142:THR:N	2.52	0.43
3:I:65:ARG:HA	3:I:65:ARG:HD2	1.87	0.43
2:H:269:LEU:C	2:H:269:LEU:HD23	2.38	0.43
3:N:72:VAL:CG2	3:N:77:GLY:HA2	2.48	0.43
1:A:55:SER:HB3	1:A:143:ARG:HB3	1.99	0.43
2:H:267:TYR:O	2:H:268:ASP:C	2.57	0.43
2:C:874:LEU:HD23	3:D:1023:MET:SD	2.58	0.43
3:D:1041:LEU:HD12	3:D:1057:VAL:O	2.18	0.43
3:D:945:SER:OG	3:D:947:ILE:HG23	2.17	0.43
3:N:991:GLN:HE22	7:Z:113:LEU:HG	1.83	0.43
2:C:1032:PHE:HD2	2:C:1037:VAL:CG2	2.32	0.43
2:C:1032:PHE:CE2	2:C:1037:VAL:HA	2.39	0.43
2:C:1082:PRO:C	2:C:1084:SER:H	2.22	0.43
1:K:210:ALA:O	1:K:211:LEU:C	2.57	0.43
2:C:140:ILE:HA	2:C:332:ARG:O	2.18	0.43
3:N:97:THR:HB	3:N:571:LYS:HE2	2.00	0.43
2:M:1038:TRP:O	2:M:1039:ALA:C	2.57	0.43
3:N:1471:LEU:CD2	3:N:1477:GLY:HA2	2.48	0.43
3:D:142:LEU:HB3	3:D:144:GLY:H	1.83	0.43
3:D:880:ILE:CG2	3:D:881:LEU:H	2.31	0.43
3:I:1466:VAL:O	3:I:1469:GLY:N	2.49	0.43
3:N:704:ARG:CD	3:N:705:ALA:H	2.32	0.43
2:C:4:LYS:HZ2	2:C:917:LEU:HD21	1.81	0.43
2:C:984:GLU:CG	3:D:944:THR:O	2.66	0.43
2:M:192:PRO:O	2:M:195:LEU:HB3	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:207:LEU:CD2	2:M:207:LEU:C	2.87	0.43
2:C:1076:VAL:HA	2:C:1077:PRO:HD3	1.87	0.43
2:C:205:GLU:HG3	2:C:205:GLU:H	1.56	0.43
1:K:184:THR:CG2	1:K:185:ARG:H	2.31	0.43
2:H:437:ARG:HG2	2:H:467:ILE:O	2.19	0.43
1:F:20:TYR:HH	1:F:198:ARG:HD3	1.83	0.43
2:H:724:ARG:HG2	2:H:737:LEU:HD22	2.00	0.43
3:D:128:TYR:HD2	3:D:128:TYR:HA	1.43	0.43
2:H:157:ARG:CG	2:H:158:TYR:N	2.78	0.43
1:L:185:ARG:CZ	3:N:692:GLU:CB	2.97	0.43
2:M:886:LEU:HA	2:M:886:LEU:HD12	1.73	0.43
3:N:1190:SER:OG	3:N:1191:PRO:CD	2.65	0.43
2:M:474:VAL:CG2	2:M:478:VAL:O	2.58	0.43
3:I:1394:VAL:HB	3:I:1397:LYS:HB2	2.01	0.43
3:N:765:SER:OG	3:N:766:ALA:N	2.50	0.43
1:K:82:LEU:O	1:K:85:LEU:HB3	2.19	0.43
2:H:309:TYR:CE2	2:H:321:GLU:HB3	2.53	0.43
1:L:56:VAL:HG12	1:L:57:TYR:H	1.83	0.43
2:M:383:ARG:HB2	2:M:383:ARG:NH1	2.32	0.43
2:M:838:LYS:NZ	2:M:846:LYS:NZ	2.66	0.43
3:I:670:VAL:CG1	3:I:671:LYS:H	2.27	0.43
2:C:474:VAL:HG13	2:C:530:GLU:C	2.38	0.43
2:M:137:VAL:HG23	2:M:391:LEU:CD2	2.49	0.43
1:F:45:LEU:CD1	1:F:177:VAL:HG21	2.49	0.43
3:N:1110:ALA:O	3:N:1112:CYS:N	2.51	0.43
2:H:367:LEU:O	2:H:367:LEU:HD12	2.19	0.43
1:K:56:VAL:CG1	1:K:57:TYR:N	2.78	0.43
1:B:101:LEU:HD12	1:B:114:PHE:CA	2.49	0.43
2:C:787:ASP:O	2:C:787:ASP:OD1	2.37	0.43
1:F:189:ARG:HA	1:F:189:ARG:HD3	1.76	0.43
3:I:1155:VAL:CG1	3:I:1177:ALA:HB1	2.48	0.43
2:H:471:TYR:O	2:H:483:VAL:HG13	2.19	0.43
2:M:343:GLN:HE21	2:M:343:GLN:CA	2.30	0.43
3:D:1321:ALA:O	3:D:1339:LYS:HD2	2.18	0.43
4:E:92:LEU:O	4:E:93:TYR:CD2	2.72	0.43
3:D:1358:ALA:O	7:X:55:LYS:NZ	2.47	0.43
2:H:400:PRO:O	2:H:401:LEU:C	2.56	0.43
2:M:598:GLU:HB2	2:M:615:TYR:CE1	2.53	0.43
2:H:710:ILE:HB	2:H:790:LEU:HD22	2.00	0.43
2:C:588:VAL:HG23	2:C:589:ARG:N	2.34	0.43
1:F:225:PHE:HD1	1:G:215:VAL:HG11	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:853:LEU:HA	2:H:854:PRO:HD3	1.83	0.43
3:D:908:LYS:CB	3:D:1027:GLY:HA3	2.38	0.43
3:D:181:ASP:CA	3:D:205:TYR:CD2	2.98	0.43
3:D:353:VAL:HG23	3:D:353:VAL:O	2.18	0.43
3:I:549:ASN:HA	3:I:549:ASN:HD22	1.52	0.43
3:N:86:ARG:HD3	3:N:523:ASP:OD2	2.18	0.43
3:N:84:ILE:HG13	3:N:85:VAL:N	2.33	0.43
2:M:455:LEU:HD12	2:M:456:ALA:N	2.34	0.43
3:D:639:LEU:C	3:D:639:LEU:CD1	2.87	0.43
2:M:206:THR:CG2	2:M:207:LEU:N	2.82	0.43
3:N:813:LEU:CD1	3:N:814:ALA:N	2.76	0.43
3:D:625:TYR:HB3	3:D:749:VAL:CG2	2.49	0.43
3:N:1434:TRP:CG	3:N:1435:LEU:N	2.87	0.43
2:C:176:VAL:O	2:C:176:VAL:HG23	2.18	0.43
2:H:1092:LEU:HB3	2:H:1099:VAL:HG23	2.01	0.43
2:H:328:LEU:HD11	2:H:434:HIS:CD2	2.53	0.43
2:H:409:ARG:HA	2:H:454:SER:HA	2.01	0.43
3:I:700:VAL:HG13	3:I:718:PRO:HG2	2.00	0.43
2:C:89:THR:HG21	2:C:383:ARG:NH2	2.32	0.43
1:K:42:ARG:CZ	2:M:857:ASP:HB3	2.48	0.43
2:M:1019:GLN:HG3	3:N:621:LYS:HZ2	1.82	0.43
3:I:1108:ARG:NH2	3:I:1198:TYR:O	2.51	0.43
2:C:399:ASN:O	2:C:402:SER:HB3	2.17	0.43
1:L:57:TYR:CD2	1:L:161:ARG:HG2	2.53	0.43
4:J:59:ASN:HB3	4:J:62:THR:OG1	2.18	0.43
7:Z:133:ARG:N	7:Z:136:ASP:OD2	2.34	0.43
2:H:389:SER:C	2:H:391:LEU:N	2.71	0.43
3:D:402:PRO:N	3:D:443:VAL:HG23	2.34	0.43
2:H:90:TYR:O	2:H:90:TYR:HD1	2.02	0.43
1:B:82:LEU:N	1:B:82:LEU:HD23	2.33	0.43
2:H:690:ILE:HG13	2:H:694:LEU:HD12	1.99	0.43
2:H:690:ILE:CG1	2:H:694:LEU:HD12	2.48	0.43
7:X:115:THR:HB	7:X:116:PRO:CD	2.47	0.43
1:L:83:LYS:HE2	1:L:168:ASP:O	2.18	0.43
3:N:1159:ARG:CG	3:N:1159:ARG:NH1	2.81	0.43
3:D:1137:ARG:NH1	3:D:1137:ARG:HG3	2.32	0.43
3:I:80:VAL:HG12	3:I:81:THR:N	2.33	0.43
3:I:917:GLN:HA	3:I:920:LEU:HD12	2.00	0.43
2:C:928:LYS:HD2	2:C:928:LYS:HA	1.76	0.43
3:D:821:VAL:O	3:D:821:VAL:HG12	2.19	0.43
2:H:595:LEU:HA	2:H:595:LEU:HD12	1.81	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:96:THR:HB	1:G:145:ASP:OD2	2.19	0.43
2:C:994:ILE:HG22	2:C:995:MET:N	2.32	0.43
4:J:24:ALA:O	4:J:27:ALA:N	2.52	0.43
3:D:52:PRO:O	3:D:86:ARG:CG	2.66	0.43
3:N:462:GLN:CG	3:N:466:LYS:HE3	2.39	0.43
2:C:282:GLY:C	2:C:283:ILE:CG1	2.85	0.43
3:N:1043:GLY:O	3:N:1057:VAL:HG23	2.18	0.43
3:N:907:GLU:O	3:N:911:LEU:HD13	2.19	0.43
2:H:850:ALA:HA	3:I:632:VAL:HG13	2.01	0.43
3:I:1026:SER:O	3:I:1028:ALA:N	2.51	0.43
3:D:788:GLY:O	3:D:792:ILE:HG22	2.18	0.43
3:N:1209:LEU:HG	3:N:1219:GLU:OE1	2.19	0.43
2:H:1084:SER:HA	2:H:1087:VAL:HG12	2.01	0.43
3:I:620:GLY:O	3:I:621:LYS:HG2	2.19	0.43
3:D:348:GLN:HB3	3:D:349:PRO:HD2	2.01	0.43
2:C:1004:LYS:CG	3:D:630:VAL:HG23	2.49	0.43
3:I:996:TRP:CZ2	3:I:1056:PRO:HG2	2.53	0.43
3:I:1353:GLN:HB3	3:I:1357:ARG:NE	2.33	0.43
2:M:120:LEU:O	2:M:127:PHE:CD2	2.71	0.43
3:D:925:GLU:OE1	4:E:7:ASP:OD2	2.36	0.43
2:M:151:ASP:OD1	2:M:152:PRO:HD2	2.18	0.43
3:N:549:ASN:HD22	3:N:549:ASN:HA	1.62	0.43
3:D:12:LEU:HD21	3:D:104:PHE:HE1	1.83	0.43
2:H:574:ALA:O	2:H:662:GLU:OE1	2.36	0.43
2:M:944:LEU:CD2	2:M:953:VAL:HG21	2.49	0.43
3:N:1288:GLU:HG3	3:N:1307:LYS:CE	2.49	0.43
3:D:54:LYS:HG3	3:D:55:ASP:N	2.33	0.43
3:I:1425:THR:C	3:I:1429:LEU:HD13	2.35	0.43
2:H:198:ARG:CZ	2:H:203:ASP:HA	2.48	0.43
3:I:646:LYS:O	3:I:649:ALA:HB3	2.19	0.43
3:D:1283:ILE:HD11	3:D:1314:LYS:HA	2.01	0.43
2:C:979:THR:HG23	2:C:981:GLU:N	2.22	0.43
3:N:764:LEU:HD12	3:N:765:SER:N	2.31	0.43
1:A:78:ILE:O	1:A:81:ASN:N	2.52	0.43
1:F:82:LEU:HD13	1:F:142:VAL:HG11	2.00	0.43
7:Z:83:ILE:HG12	7:Z:89:VAL:HG21	2.01	0.43
2:H:335:THR:O	2:H:336:VAL:C	2.57	0.43
1:B:58:ILE:HD12	1:B:58:ILE:N	2.33	0.43
1:B:52:ALA:HB1	1:B:170:VAL:N	2.34	0.43
2:M:705:ILE:HD12	2:M:705:ILE:N	2.34	0.43
3:N:180:LYS:N	3:N:180:LYS:HD2	2.34	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:1047:HIS:HA	2:H:1050:GLN:HB3	2.01	0.43
3:I:52:PRO:CG	3:I:80:VAL:HG22	2.48	0.43
2:M:175:GLU:HG2	2:M:176:VAL:H	1.83	0.43
3:I:1380:GLU:HB2	3:I:1420:LEU:HD11	2.01	0.43
4:E:85:LEU:HD23	4:E:85:LEU:C	2.38	0.43
2:C:948:GLU:CD	2:C:955:PRO:HA	2.39	0.43
2:M:111:ASP:N	2:M:111:ASP:OD1	2.51	0.43
3:D:1173:LEU:HD12	3:D:1176:LYS:HE2	2.00	0.43
3:D:1495:ILE:HD13	3:D:1495:ILE:HA	1.95	0.43
2:C:1024:LYS:HE3	2:C:1024:LYS:CA	2.46	0.43
2:M:795:GLY:O	2:M:796:GLU:HG2	2.18	0.43
3:D:1385:GLY:HA2	3:D:1413:THR:HG21	2.01	0.43
1:B:104:GLU:HA	1:B:136:GLY:O	2.19	0.43
2:M:626:ARG:H	2:M:639:GLN:NE2	2.16	0.43
2:C:662:GLU:O	2:C:663:ASN:HB2	2.18	0.43
2:C:683:ASN:CA	2:C:687:ALA:HB3	2.47	0.43
3:D:1105:ILE:CD1	3:D:1105:ILE:H	2.30	0.43
3:D:1109:GLU:HG2	3:D:1201:CYS:HB2	2.00	0.43
3:D:119:SER:CB	3:D:123:LEU:H	2.31	0.43
3:D:50:PHE:CG	3:D:522:PRO:CG	3.01	0.43
3:I:581:LEU:O	3:I:603:LEU:HG	2.19	0.43
3:D:181:ASP:O	3:D:204:LEU:HA	2.19	0.43
3:D:704:ARG:CD	3:D:705:ALA:H	2.32	0.43
1:G:165:ILE:HD12	1:G:165:ILE:O	2.19	0.43
3:N:841:TYR:HB3	3:N:843:PHE:CE1	2.53	0.43
3:N:850:LEU:H	3:N:850:LEU:CD1	2.25	0.43
2:M:182:VAL:C	2:M:193:LEU:CD1	2.87	0.43
3:N:812:ALA:HB1	3:N:816:HIS:HD2	1.79	0.43
2:H:351:LEU:HD12	2:H:351:LEU:C	2.39	0.43
2:M:855:VAL:HG13	2:M:856:GLU:N	2.33	0.43
3:N:57:GLU:O	3:N:80:VAL:HG21	2.19	0.43
1:B:219:ARG:O	1:B:222:LEU:N	2.51	0.43
2:M:1013:TYR:HA	2:M:1019:GLN:O	2.19	0.43
2:H:596:TYR:CD1	2:H:596:TYR:N	2.87	0.43
7:Z:62:ILE:N	7:Z:62:ILE:CD1	2.81	0.43
2:C:22:GLN:NE2	2:C:336:VAL:HG21	2.34	0.43
3:I:415:VAL:CG1	3:I:416:ALA:N	2.82	0.43
1:A:20:TYR:HD2	1:A:21:GLY:H	1.66	0.43
2:M:720:GLU:OE2	2:M:760:SER:HB3	2.19	0.43
7:Y:147:ARG:NH2	7:Y:149:PHE:CZ	2.87	0.43
3:N:1359:GLN:NE2	7:Z:33:LEU:HD21	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:916:TYR:O	3:N:920:LEU:HD12	2.18	0.43
2:H:111:ASP:C	2:H:112:GLU:HG2	2.39	0.43
3:I:403:PHE:CE2	3:I:444:VAL:HG23	2.54	0.43
7:X:133:ARG:O	7:X:134:VAL:C	2.57	0.43
2:C:627:ARG:O	2:C:638:ASP:HB3	2.18	0.43
3:I:871:LYS:HB3	3:I:871:LYS:HE2	1.81	0.43
3:D:667:ALA:HA	3:D:668:PRO:HD3	1.82	0.43
2:C:776:SER:HA	2:C:780:GLU:HB3	2.01	0.43
1:A:149:GLY:O	1:A:171:PHE:HB2	2.18	0.43
2:H:163:ILE:HA	2:H:164:PRO:HD3	1.81	0.43
1:K:90:LEU:H	1:K:94:LEU:CD1	2.31	0.43
2:C:865:THR:HA	2:C:866:PRO:HD3	1.70	0.43
3:N:142:LEU:HD23	3:N:144:GLY:O	2.19	0.43
3:N:1031:ASN:ND2	7:Z:32:ILE:CG2	2.81	0.43
3:N:1034:GLN:O	3:N:1037:GLN:N	2.46	0.43
3:D:1123:PHE:CE2	3:D:1184:GLN:CA	2.89	0.43
3:N:1256:LEU:O	3:N:1257:PRO:C	2.56	0.43
3:N:1348:LEU:CD1	3:N:1348:LEU:N	2.81	0.43
2:C:1004:LYS:HA	2:C:1004:LYS:HD3	1.84	0.43
2:C:99:GLN:HE21	2:C:101:ILE:HD11	1.83	0.43
2:C:110:GLU:CB	2:C:369:PRO:HB3	2.48	0.43
2:H:1041:GLU:HB2	3:I:1223:ILE:HD13	2.01	0.43
3:I:127:LEU:HD11	3:I:461:ILE:HD11	2.00	0.43
3:N:87:ARG:HD2	3:N:88:TYR:CE2	2.53	0.43
3:N:1262:LEU:HA	3:N:1262:LEU:HD12	1.64	0.43
2:M:113:VAL:CG2	2:M:113:VAL:O	2.66	0.43
2:M:22:GLN:NE2	2:M:336:VAL:HG21	2.33	0.43
2:M:140:ILE:HD11	2:M:412:ALA:CB	2.49	0.43
1:L:211:LEU:O	1:L:214:ALA:HB3	2.19	0.43
4:E:61:VAL:CG2	4:E:62:THR:N	2.82	0.43
2:C:184:MET:HB2	2:C:193:LEU:HG	2.01	0.43
2:M:571:LEU:CD2	2:M:670:GLN:HE21	2.27	0.43
2:H:242:LEU:HD21	2:H:254:VAL:HG11	1.99	0.43
2:M:432:ARG:HH22	3:N:1047:LYS:HE3	1.84	0.43
7:X:128:ALA:O	7:X:138:LEU:HD13	2.18	0.43
3:I:1323:GLN:O	3:I:1325:LEU:HD13	2.19	0.43
7:Y:102:VAL:HG22	7:Y:117:MET:O	2.19	0.43
1:A:92:PRO:C	1:A:94:LEU:H	2.21	0.43
2:H:578:VAL:HG23	2:H:579:VAL:HG12	2.01	0.43
2:H:582:GLY:C	2:H:583:LEU:HD12	2.39	0.43
2:C:1008:ARG:NE	2:C:1027:PHE:O	2.50	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:347:VAL:HG13	3:N:351:MET:CB	2.42	0.43
2:H:897:LEU:CD2	2:H:921:ALA:HA	2.49	0.43
2:M:810:ASP:HB3	2:M:813:VAL:HG12	2.01	0.43
2:M:684:PHE:CB	3:N:633:VAL:HG21	2.49	0.43
1:B:58:ILE:HG21	1:B:61:VAL:HG23	2.00	0.43
1:G:202:ASP:OD1	1:G:202:ASP:C	2.56	0.43
3:I:1274:ILE:CG1	3:I:1334:GLN:HE21	2.28	0.43
2:H:71:TYR:N	2:H:71:TYR:CD2	2.84	0.43
2:C:2:GLU:C	2:C:3:ILE:HD12	2.40	0.43
2:C:810:ASP:HB3	2:C:813:VAL:HG12	2.01	0.43
3:I:1183:ILE:H	3:I:1183:ILE:HD12	1.84	0.43
3:I:470:LEU:HD12	3:I:503:LEU:CD2	2.47	0.43
3:I:639:LEU:HD12	3:I:640:HIS:H	1.84	0.43
2:C:833:LEU:HD12	2:C:837:ASP:OD2	2.18	0.43
2:M:626:ARG:HB3	2:M:629:TYR:CD1	2.53	0.43
2:H:966:LEU:HD12	2:H:966:LEU:HA	1.74	0.43
3:N:511:TRP:N	3:N:511:TRP:CE3	2.87	0.43
3:D:1132:LEU:N	3:D:1132:LEU:HD12	2.34	0.43
2:H:1:MET:SD	2:H:1:MET:O	2.76	0.43
1:F:151:VAL:HB	1:F:169:ALA:HB3	2.00	0.43
2:C:599:GLU:HG3	2:C:600:ASP:H	1.83	0.43
3:I:1440:PHE:CD2	3:I:1441:GLN:N	2.87	0.43
2:H:281:LEU:CG	2:H:282:GLY:N	2.68	0.43
2:C:676:ILE:O	2:C:676:ILE:HG23	2.19	0.43
3:N:359:ALA:H	3:N:385:VAL:HB	1.83	0.43
3:I:1481:VAL:C	3:I:1483:PHE:N	2.69	0.43
2:H:676:ILE:HD12	2:H:871:LEU:HB2	2.01	0.43
2:C:1019:GLN:CD	3:D:621:LYS:CB	2.87	0.43
1:K:23:PHE:CD2	1:K:211:LEU:HD22	2.54	0.43
3:D:141:ILE:CG1	3:D:448:GLU:OE1	2.67	0.43
3:D:838:ARG:HD2	3:D:838:ARG:H	1.84	0.43
3:D:880:ILE:O	3:D:881:LEU:C	2.56	0.43
2:H:621:VAL:HG12	2:H:622:GLU:H	1.84	0.43
2:M:939:ARG:HE	2:M:939:ARG:CA	2.09	0.43
2:M:404:LEU:HA	2:M:407:LYS:CD	2.42	0.43
1:B:111:ALA:HB3	1:B:124:ASN:O	2.19	0.43
3:D:728:LEU:CD2	3:D:745:MET:SD	3.07	0.43
3:D:639:LEU:CD2	3:D:766:ALA:HA	2.48	0.43
2:M:338:GLU:C	2:M:341:THR:HG22	2.39	0.43
3:N:1434:TRP:HE1	3:N:1435:LEU:CD1	2.31	0.43
2:H:358:ARG:HH22	2:H:374:ASN:CG	2.21	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:374:ASN:O	2:H:377:PRO:HD2	2.19	0.43
3:I:1457:ASP:OD1	3:I:1457:ASP:C	2.57	0.43
3:I:1459:LEU:CD2	3:I:1470:ARG:NH2	2.64	0.43
3:I:1140:ILE:HG21	3:I:1175:ILE:CD1	2.39	0.43
3:N:970:LYS:HG2	3:N:995:LEU:HD13	1.99	0.43
3:I:714:GLN:HB2	3:I:716:PHE:CE1	2.54	0.43
3:N:1144:LEU:HD11	3:N:1186:VAL:HG21	2.01	0.43
3:D:1283:ILE:HG22	3:D:1284:GLU:N	2.34	0.43
1:F:99:LEU:N	1:F:99:LEU:CD1	2.78	0.43
2:C:462:ASP:HB3	2:C:468:ARG:HD2	2.00	0.43
2:H:1035:MET:HG2	3:I:707:THR:O	2.19	0.43
2:H:1036:GLU:H	2:H:1036:GLU:CD	2.16	0.43
1:F:26:GLU:CB	1:F:27:PRO:HA	2.48	0.43
3:I:554:LEU:HD11	3:I:571:LYS:CE	2.48	0.43
2:H:327:HIS:C	2:H:329:GLY:N	2.72	0.43
2:C:218:VAL:HG22	2:C:221:LEU:CD2	2.48	0.43
3:D:1356:TYR:H	3:D:1356:TYR:HD1	1.67	0.43
1:F:92:PRO:C	1:F:94:LEU:N	2.72	0.43
3:D:1487:VAL:CG1	3:D:1488:ASP:N	2.82	0.43
2:C:47:ALA:HB2	2:C:345:ARG:HD2	2.01	0.43
3:D:1281:VAL:HG21	3:D:1313:VAL:HG22	2.00	0.43
2:M:187:ASN:O	2:M:188:LYS:CB	2.64	0.43
2:H:153:ALA:O	2:H:155:PRO:CD	2.67	0.43
3:I:927:THR:O	3:I:928:ALA:C	2.58	0.43
3:I:765:SER:C	3:I:767:HIS:H	2.22	0.43
2:C:470:PRO:HB3	2:C:485:TYR:CZ	2.54	0.43
2:C:80:GLN:H	2:C:80:GLN:HG2	1.61	0.43
3:I:1346:ARG:HD2	3:I:1346:ARG:HA	1.80	0.43
1:A:33:GLY:O	1:A:195:LEU:HD22	2.19	0.43
1:A:31:GLY:N	1:A:193:ASP:OD1	2.41	0.43
2:H:140:ILE:HD11	2:H:412:ALA:HA	2.01	0.42
3:N:978:TYR:HB2	3:N:983:LEU:HD11	2.01	0.42
2:H:952:LEU:N	2:H:952:LEU:CD2	2.81	0.42
2:C:408:ARG:NH2	2:C:455:LEU:CD1	2.65	0.42
2:C:290:LEU:N	2:C:290:LEU:HD23	2.27	0.42
3:I:206:ARG:HA	3:I:206:ARG:HD3	1.77	0.42
2:C:861:LEU:CG	2:C:862:PRO:CD	2.89	0.42
4:O:47:LYS:HA	4:O:54:LEU:CB	2.40	0.42
2:M:835:VAL:HG13	2:M:836:GLY:N	2.34	0.42
2:M:839:LEU:CB	2:M:995:MET:O	2.67	0.42
2:C:102:HIS:HD2	2:C:106:GLY:O	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:109:LYS:HE2	2:C:111:ASP:OD2	2.19	0.42
3:I:996:TRP:O	3:I:997:THR:C	2.56	0.42
2:C:794:PRO:HG2	2:C:1025:ALA:HA	1.99	0.42
3:I:566:ILE:HG12	2:M:180:GLY:CA	2.49	0.42
2:M:300:ASP:C	2:M:302:VAL:N	2.61	0.42
3:N:1000:THR:CG2	3:N:1001:GLU:H	2.30	0.42
3:N:1018:ASN:HB3	3:N:1021:TYR:CB	2.48	0.42
2:M:333:ILE:CD1	2:M:410:ILE:HG12	2.48	0.42
3:D:699:VAL:HB	3:D:716:PHE:O	2.19	0.42
2:C:193:LEU:N	2:C:193:LEU:CD1	2.81	0.42
3:D:581:LEU:O	3:D:603:LEU:HB2	2.19	0.42
2:M:39:ARG:O	2:M:40:GLU:C	2.57	0.42
3:D:590:PRO:O	3:D:600:LEU:CD1	2.67	0.42
3:N:1165:TYR:CD2	3:N:1214:PRO:HG3	2.54	0.42
3:N:415:VAL:HG13	3:N:419:ASP:CB	2.41	0.42
2:M:439:CYS:SG	2:M:441:VAL:HG23	2.60	0.42
3:N:508:ARG:HB3	3:N:510:GLU:OE2	2.18	0.42
3:D:851:LEU:H	3:D:851:LEU:HG	1.41	0.42
2:M:810:ASP:HA	2:M:811:PRO:HD3	1.90	0.42
3:N:1161:GLU:CG	3:N:1164:ARG:HB2	2.49	0.42
2:H:806:LEU:HD12	2:H:822:VAL:CG2	2.48	0.42
2:C:79:PRO:HG2	2:C:82:GLU:HB2	2.00	0.42
4:O:35:PHE:CD2	4:O:35:PHE:O	2.72	0.42
3:I:150:ARG:CB	3:I:150:ARG:NH1	2.82	0.42
2:C:216:GLU:O	2:C:219:GLN:CD	2.57	0.42
4:O:84:ARG:NH1	4:O:84:ARG:HG3	2.33	0.42
3:I:486:ARG:HA	3:I:489:ARG:HG2	2.00	0.42
1:L:102:LYS:HB2	1:L:139:ASN:ND2	2.34	0.42
1:B:95:GLN:HE21	1:B:95:GLN:HB2	1.54	0.42
1:G:14:ARG:NH1	1:G:14:ARG:HB2	2.34	0.42
3:I:1014:ASN:C	3:I:1016:PRO:HD3	2.40	0.42
2:H:1103:ASP:OD2	3:I:3:LYS:HD2	2.19	0.42
1:G:211:LEU:O	1:G:214:ALA:HB3	2.18	0.42
2:M:775:ARG:O	2:M:779:GLY:C	2.58	0.42
1:B:157:GLY:O	1:B:159:LYS:HE3	2.19	0.42
2:H:143:SER:O	2:H:145:GLY:N	2.52	0.42
2:H:146:VAL:HG22	2:H:162:ILE:HA	2.02	0.42
2:H:183:SER:CA	2:H:193:LEU:HD11	2.48	0.42
2:C:861:LEU:CD2	2:C:862:PRO:HD2	2.48	0.42
3:N:162:ARG:HA	3:N:162:ARG:HD3	1.70	0.42
3:D:133:ILE:HG22	3:D:134:VAL:H	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:885:ILE:HG23	3:D:937:TYR:CE1	2.54	0.42
3:N:1098:LEU:HD21	3:N:1229:ILE:HG22	1.99	0.42
2:C:835:VAL:CG1	2:C:836:GLY:N	2.81	0.42
2:M:335:THR:O	2:M:336:VAL:C	2.57	0.42
2:M:196:LEU:O	2:M:200:LEU:HD23	2.19	0.42
2:M:260:LEU:HA	2:M:291:ALA:HB1	1.99	0.42
3:I:1031:ASN:ND2	7:Y:32:ILE:HG21	2.33	0.42
2:M:272:ALA:HA	2:M:464:LEU:HD22	1.97	0.42
2:H:431:HIS:CG	2:H:432:ARG:N	2.87	0.42
2:C:376:ARG:HB3	2:C:377:PRO:HD3	2.01	0.42
1:A:85:LEU:HA	1:A:124:ASN:HD22	1.84	0.42
3:I:649:ALA:O	3:I:650:LEU:C	2.58	0.42
3:D:93:ILE:CD1	3:D:548:ILE:HD11	2.49	0.42
2:H:539:VAL:C	2:H:540:PHE:HD2	2.22	0.42
2:M:609:ASN:ND2	2:M:627:ARG:HG3	2.34	0.42
3:D:483:HIS:CB	3:D:484:PRO:HD3	2.39	0.42
3:N:634:GLY:O	3:N:637:LEU:HB3	2.19	0.42
2:M:1043:TYR:CE1	3:N:710:ARG:O	2.72	0.42
1:A:41:ARG:HG3	1:A:41:ARG:NH1	2.27	0.42
2:H:899:GLN:HG3	2:H:901:TYR:CZ	2.53	0.42
3:I:63:TYR:HD1	3:I:73:CYS:SG	2.42	0.42
1:K:64:GLU:HA	1:K:75:VAL:HG11	2.00	0.42
3:D:996:TRP:O	3:D:997:THR:C	2.57	0.42
2:M:345:ARG:HA	2:M:348:LEU:HB2	2.01	0.42
2:M:682:TYR:CE1	3:N:635:PRO:HD2	2.54	0.42
2:H:25:SER:CB	2:H:335:THR:HB	2.49	0.42
2:C:292:ARG:HD2	2:C:299:LYS:CE	2.49	0.42
3:I:1283:ILE:CD1	3:I:1292:VAL:HG13	2.49	0.42
2:M:400:PRO:O	2:M:401:LEU:C	2.57	0.42
1:B:221:HIS:HA	1:B:224:TYR:HD2	1.84	0.42
2:M:1105:LYS:HG3	2:M:1105:LYS:H	1.63	0.42
3:D:1281:VAL:HG23	3:D:1317:ASP:O	2.19	0.42
2:M:177:GLU:CD	2:M:179:ASN:HB2	2.40	0.42
4:O:27:ALA:O	4:O:31:LEU:HD11	2.17	0.42
4:O:35:PHE:HE2	4:O:63:TRP:CE2	2.37	0.42
3:N:871:LYS:HE2	3:N:873:LEU:CD2	2.49	0.42
1:K:176:ARG:HG3	1:K:200:TRP:HB2	2.02	0.42
4:E:69:LEU:C	4:E:69:LEU:HD23	2.39	0.42
3:I:614:PHE:CE2	3:I:1438:ALA:HB1	2.53	0.42
3:D:53:ILE:HG13	3:D:53:ILE:O	2.18	0.42
4:J:69:LEU:O	4:J:69:LEU:HD23	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:1363:LEU:HG	3:I:1363:LEU:O	2.19	0.42
3:N:1333:HIS:O	3:N:1336:LEU:HB3	2.18	0.42
3:I:608:SER:O	3:I:612:GLY:HA3	2.19	0.42
2:H:193:LEU:H	2:H:193:LEU:HD13	1.83	0.42
2:H:194:VAL:HG11	2:H:221:LEU:O	2.19	0.42
3:N:181:ASP:O	3:N:204:LEU:HA	2.20	0.42
3:I:1216:SER:OG	4:J:16:LYS:HB3	2.19	0.42
2:H:983:ILE:O	2:H:984:GLU:C	2.57	0.42
2:M:224:GLU:CB	2:M:228:ALA:HB2	2.50	0.42
2:C:1085:PHE:CD1	2:C:1085:PHE:C	2.93	0.42
3:D:1071:PHE:C	3:D:1071:PHE:CD1	2.93	0.42
2:C:270:GLY:CA	2:C:274:ARG:HD3	2.47	0.42
3:D:853:VAL:HG22	3:D:858:VAL:HG23	2.02	0.42
3:I:525:ARG:CG	3:I:525:ARG:O	2.67	0.42
3:N:87:ARG:O	3:N:524:LEU:HD11	2.19	0.42
3:I:971:LEU:CD1	3:I:992:ILE:HG23	2.49	0.42
3:N:996:TRP:O	3:N:997:THR:C	2.56	0.42
2:M:165:LEU:HG	2:M:166:PRO:CA	2.37	0.42
2:H:456:ALA:HB3	2:H:459:ALA:CB	2.40	0.42
2:M:676:ILE:CG2	2:M:988:VAL:O	2.58	0.42
3:D:1388:ARG:HG3	3:D:1389:LEU:HD23	2.01	0.42
2:M:327:HIS:O	2:M:330:ASN:N	2.44	0.42
3:D:955:VAL:HG23	3:D:1011:PHE:HE1	1.85	0.42
3:D:608:SER:O	3:D:612:GLY:HA3	2.19	0.42
2:C:1094:ALA:HB1	3:D:603:LEU:HD11	2.00	0.42
2:M:39:ARG:O	2:M:41:ASN:N	2.53	0.42
3:I:650:LEU:HD12	3:I:657:LEU:HD22	2.01	0.42
2:C:383:ARG:O	2:C:387:SER:OG	2.33	0.42
2:H:580:MET:HB3	2:H:584:GLU:OE1	2.18	0.42
2:H:1076:VAL:HG23	2:H:1077:PRO:O	2.19	0.42
1:A:73:GLU:OE1	1:A:129:ILE:O	2.37	0.42
2:C:508:ILE:HD13	2:C:526:PRO:HB3	2.01	0.42
2:C:221:LEU:HD12	2:C:222:MET:CA	2.49	0.42
2:C:313:LEU:HG	2:C:314:THR:N	2.33	0.42
2:M:810:ASP:OD2	2:M:815:LEU:HD22	2.19	0.42
2:M:376:ARG:HB3	2:M:377:PRO:CD	2.49	0.42
3:D:171:LEU:HD21	3:D:192:ALA:CB	2.49	0.42
2:H:598:GLU:CB	2:H:615:TYR:OH	2.67	0.42
1:A:228:PRO:O	1:A:229:GLN:HB2	2.18	0.42
7:Z:107:PRO:HD3	7:Z:121:ASP:HB3	2.02	0.42
2:H:1058:ASP:O	2:H:1060:ILE:N	2.53	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:Y:137:VAL:HG22	7:Y:150:ARG:HB2	2.01	0.42
2:H:191:PHE:HB3	2:H:241:LEU:HD21	2.01	0.42
3:D:1331:ASP:HA	3:D:1332:PRO:HD3	1.71	0.42
2:C:263:ASP:CB	2:C:264:PRO:HD3	2.49	0.42
2:M:224:GLU:HB3	2:M:228:ALA:N	2.34	0.42
2:C:1031:ARG:HG2	2:C:1032:PHE:N	2.35	0.42
2:C:435:TYR:HA	3:D:1071:PHE:CE2	2.51	0.42
2:C:274:ARG:CD	2:C:285:LEU:CD2	2.82	0.42
3:N:889:ALA:CB	3:N:930:LEU:HA	2.49	0.42
3:D:835:SER:O	3:D:837:GLY:N	2.52	0.42
3:D:368:VAL:HB	3:D:377:VAL:CB	2.50	0.42
2:C:897:LEU:HD11	2:C:917:LEU:O	2.20	0.42
3:D:736:PHE:O	3:D:737:ASN:C	2.58	0.42
3:I:151:GLN:HE21	3:I:152:LEU:CD2	2.32	0.42
2:M:614:ARG:HG2	2:M:614:ARG:O	2.19	0.42
3:N:614:PHE:CD2	3:N:1438:ALA:HB1	2.54	0.42
2:H:1011:GLY:HA3	2:H:1012:PRO:HD3	1.66	0.42
2:M:1052:MET:SD	2:M:1056:LYS:CD	3.05	0.42
3:D:54:LYS:HE3	3:D:55:ASP:OD1	2.19	0.42
1:G:185:ARG:HH22	3:I:692:GLU:HB2	1.82	0.42
2:C:383:ARG:HH11	2:C:383:ARG:CB	2.22	0.42
2:M:579:VAL:CG1	2:M:887:GLU:HG3	2.49	0.42
1:A:218:LEU:O	1:A:222:LEU:HD13	2.19	0.42
2:H:119:PRO:HG2	2:H:386:PHE:CE2	2.54	0.42
2:M:1008:ARG:HH12	2:M:1010:THR:C	2.22	0.42
2:C:979:THR:HG23	2:C:981:GLU:HB2	2.02	0.42
3:D:991:GLN:HE22	7:X:112:VAL:CB	2.30	0.42
2:M:897:LEU:CD2	2:M:921:ALA:HA	2.49	0.42
2:C:122:THR:CG2	2:C:124:ASP:OD1	2.67	0.42
2:M:679:PHE:C	3:N:943:THR:HG22	2.40	0.42
2:C:474:VAL:HG22	2:C:474:VAL:O	2.18	0.42
1:L:227:ASN:HA	1:L:228:PRO:HD3	1.61	0.42
2:H:598:GLU:HB2	2:H:615:TYR:CE2	2.55	0.42
2:C:292:ARG:HD2	2:C:299:LYS:HE2	2.01	0.42
1:G:101:LEU:HB2	1:G:114:PHE:HA	2.01	0.42
3:N:1146:GLY:HA3	3:N:1207:TYR:HB2	2.01	0.42
3:I:890:VAL:HG11	3:I:922:LEU:HD13	2.00	0.42
2:H:87:ASP:OD2	2:H:824:ARG:NH2	2.53	0.42
7:X:152:VAL:O	7:X:153:ALA:HB2	2.19	0.42
2:H:443:THR:OG1	2:H:450:GLY:N	2.39	0.42
2:H:597:ALA:HB2	2:H:655:LEU:HD21	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:183:ASP:OD1	1:A:183:ASP:N	2.52	0.42
3:N:1297:GLU:OE2	3:N:1297:GLU:HA	2.19	0.42
2:M:1054:THR:OG1	2:M:1055:LEU:N	2.47	0.42
4:J:3:GLU:OE1	4:J:4:PRO:HD2	2.19	0.42
3:N:420:VAL:CG1	3:N:424:GLY:O	2.67	0.42
4:J:33:HIS:CG	4:J:89:MET:HG2	2.54	0.42
2:C:607:ASP:OD2	2:C:609:ASN:HB2	2.18	0.42
2:H:192:PRO:O	2:H:195:LEU:HB3	2.20	0.42
2:H:211:LEU:CD2	2:H:221:LEU:HD22	2.48	0.42
3:D:1147:ARG:CB	3:D:1188:VAL:HG21	2.42	0.42
2:M:224:GLU:OE1	2:M:226:VAL:HG13	2.19	0.42
3:D:17:LYS:HA	3:D:20:SER:HB2	2.01	0.42
2:C:967:PHE:CD1	2:C:972:VAL:HG12	2.54	0.42
3:I:785:ILE:O	3:I:786:ILE:C	2.57	0.42
2:C:139:GLN:NE2	2:C:414:GLY:HA3	2.34	0.42
2:C:281:LEU:HD11	2:C:306:THR:HG23	2.02	0.42
3:N:875:THR:CG2	3:N:876:SER:H	2.29	0.42
3:I:632:VAL:O	3:I:727:GLN:HA	2.20	0.42
3:I:643:GLY:N	3:I:727:GLN:O	2.49	0.42
3:D:794:GLN:HG2	3:D:1017:PHE:HE2	1.83	0.42
3:D:835:SER:O	3:D:836:VAL:C	2.56	0.42
3:I:520:LEU:HG	3:I:521:PRO:N	2.34	0.42
2:C:578:VAL:HA	2:C:900:ARG:CG	2.49	0.42
2:C:548:PRO:CG	2:C:842:ARG:CZ	2.98	0.42
2:C:708:TYR:CE2	2:C:793:PRO:HG2	2.55	0.42
2:H:134:ARG:HH21	2:H:393:GLN:CA	2.19	0.42
2:C:374:ASN:HD22	2:C:374:ASN:N	2.16	0.42
1:F:83:LYS:NZ	2:H:698:ASP:OD2	2.35	0.42
3:N:973:GLN:HG2	3:N:973:GLN:H	1.45	0.42
3:I:853:VAL:HG22	3:I:858:VAL:CG2	2.47	0.42
1:L:86:VAL:HG12	1:L:124:ASN:CG	2.39	0.42
3:I:661:MET:HE2	3:I:673:ALA:HB1	2.02	0.42
1:A:91:ASN:OD1	1:A:92:PRO:CD	2.56	0.42
3:N:666:ILE:HG23	3:N:684:LYS:HD2	2.00	0.42
2:M:886:LEU:O	2:M:887:GLU:C	2.58	0.42
2:H:975:TYR:HA	2:H:982:PRO:HA	2.01	0.42
2:C:854:PRO:O	2:C:856:GLU:N	2.53	0.42
3:N:728:LEU:HD12	3:N:729:HIS:H	1.82	0.42
3:N:415:VAL:CG1	3:N:419:ASP:HB2	2.42	0.42
3:I:1128:VAL:O	3:I:1129:THR:CG2	2.62	0.42
2:C:502:PRO:O	2:C:509:ALA:CB	2.67	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:971:LEU:CD1	3:D:992:ILE:HG23	2.50	0.42
1:F:142:VAL:O	1:F:142:VAL:HG23	2.18	0.42
3:N:365:ASP:O	3:N:379:ALA:CB	2.66	0.42
2:M:653:ASP:OD1	2:M:654:LEU:HD23	2.20	0.42
2:M:662:GLU:O	2:M:663:ASN:HB2	2.20	0.42
3:I:731:LEU:HD22	3:I:779:ALA:O	2.20	0.42
7:Y:148:GLU:N	7:Y:148:GLU:OE1	2.53	0.42
1:L:71:VAL:HG22	1:L:132:LEU:HG	2.01	0.42
1:F:49:PRO:HB3	1:F:148:VAL:HG22	2.01	0.42
7:X:6:LYS:NZ	7:X:85:LEU:CD1	2.83	0.42
3:I:1173:LEU:HD12	3:I:1176:LYS:HE2	2.01	0.42
2:M:36:PRO:CG	2:M:70:GLU:HG2	2.50	0.42
7:Y:19:LEU:O	7:Y:23:ARG:HG3	2.19	0.42
3:D:406:ASP:O	3:D:422:ALA:HB1	2.19	0.42
3:N:1382:THR:CG2	3:N:1418:LYS:HE3	2.49	0.42
1:A:70:GLY:N	2:C:607:ASP:OD1	2.46	0.42
2:M:925:TYR:C	2:M:925:TYR:CD2	2.92	0.42
1:L:162:ILE:HG13	1:L:163:ASN:N	2.34	0.42
2:C:882:LEU:O	2:C:883:GLY:C	2.56	0.42
3:D:1084:THR:HA	3:D:1087:ARG:HH11	1.84	0.42
3:D:1106:VAL:HG11	3:D:1474:ALA:HB2	2.01	0.42
3:D:1213:ARG:HB2	3:D:1214:PRO:HD3	2.00	0.42
3:D:1262:LEU:HD23	3:D:1352:ILE:HD13	2.02	0.42
3:D:1205:TYR:CE1	3:D:1366:LYS:HD3	2.54	0.42
3:N:166:GLN:HA	3:N:395:VAL:O	2.19	0.42
3:N:205:TYR:HE2	3:N:441:ARG:NH2	2.16	0.42
2:C:1084:SER:HA	2:C:1087:VAL:CG1	2.50	0.42
2:C:1086:ARG:CD	3:D:88:TYR:CE1	2.99	0.42
2:C:139:GLN:HB3	2:C:334:ARG:HD3	2.00	0.42
2:C:332:ARG:CG	2:C:465:GLY:HA3	2.34	0.42
3:N:165:LYS:HD3	3:N:165:LYS:O	2.20	0.42
1:G:30:ARG:HH12	2:H:854:PRO:CB	2.32	0.42
2:H:853:LEU:CB	2:H:858:MET:HE2	2.48	0.42
3:D:833:GLU:O	3:D:834:THR:CG2	2.68	0.42
1:G:76:VAL:O	1:G:80:LEU:HB2	2.19	0.42
2:C:113:VAL:O	2:C:115:LEU:HD21	2.20	0.42
3:I:563:PRO:CB	3:I:566:ILE:HD13	2.50	0.42
2:M:207:LEU:HD21	2:M:211:LEU:HD23	2.01	0.42
2:M:254:VAL:O	2:M:258:TYR:CE1	2.72	0.42
2:M:140:ILE:HG23	2:M:410:ILE:CG2	2.49	0.42
3:I:1053:PHE:CE1	3:I:1072:ILE:HG23	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:772:ARG:HE	2:H:772:ARG:HB2	1.55	0.42
3:I:974:ILE:HD13	3:I:974:ILE:N	2.35	0.42
1:L:59:GLU:CB	1:L:137:ARG:HH12	2.18	0.42
3:D:143:ASN:CB	3:D:161:LEU:CD2	2.90	0.42
3:I:977:ALA:CB	3:I:983:LEU:HD21	2.49	0.42
2:C:76:PRO:O	2:C:77:PRO:C	2.57	0.42
3:N:618:LEU:HD21	3:N:1463:LYS:NZ	2.33	0.42
2:C:405:ARG:CD	2:C:442:GLU:OE1	2.66	0.42
2:C:1051:GLU:HG2	2:C:1056:LYS:HE3	2.02	0.42
3:N:714:GLN:OE1	3:N:732:VAL:CG1	2.61	0.42
4:O:9:LEU:O	4:O:12:MET:HB2	2.19	0.42
3:I:557:LEU:CD1	3:I:570:GLU:HG3	2.49	0.42
1:G:176:ARG:CD	3:I:884:ARG:NH2	2.82	0.42
2:C:650:ARG:CG	2:C:653:ASP:HB2	2.50	0.42
2:H:319:GLY:O	2:H:321:GLU:CD	2.58	0.42
3:I:508:ARG:CB	3:I:509:PRO:HD2	2.50	0.42
2:M:86:LYS:HB3	2:M:813:VAL:HG23	2.00	0.42
3:D:421:LEU:HB2	3:D:427:VAL:HG12	2.01	0.42
2:C:39:ARG:N	2:C:39:ARG:HD2	2.31	0.42
1:L:199:ILE:HG22	1:L:200:TRP:N	2.35	0.42
2:C:805:ARG:O	2:C:806:LEU:HD23	2.19	0.42
1:F:176:ARG:HB2	1:F:200:TRP:CE3	2.54	0.42
2:C:470:PRO:HD3	2:C:485:TYR:CE2	2.55	0.42
3:N:1346:ARG:HD2	3:N:1346:ARG:HA	1.75	0.42
3:I:514:LEU:HD23	3:I:514:LEU:HA	1.75	0.42
3:D:1417:TRP:CD1	3:D:1417:TRP:C	2.93	0.42
3:I:1484:THR:C	3:I:1485:GLN:HG2	2.35	0.42
2:H:341:THR:HG23	2:H:342:ASP:N	2.35	0.42
2:C:676:ILE:HG21	2:C:988:VAL:HG13	1.93	0.42
3:N:166:GLN:OE1	3:N:394:LEU:HD12	2.20	0.42
2:H:950:LEU:HD13	2:H:950:LEU:O	2.20	0.42
1:B:36:LEU:C	1:B:39:PRO:HD2	2.40	0.42
3:N:139:GLY:HA3	3:N:162:ARG:CZ	2.50	0.42
2:C:834:GLN:NE2	3:D:724:GLN:CG	2.68	0.42
2:C:274:ARG:HD2	2:C:285:LEU:HD22	1.80	0.42
3:N:875:THR:HG22	3:N:879:ARG:HB2	1.99	0.42
3:D:1122:LEU:HD13	3:D:1184:GLN:C	2.39	0.42
3:D:141:ILE:CD1	3:D:142:LEU:O	2.63	0.42
2:H:1085:PHE:O	2:H:1089:VAL:HG23	2.18	0.42
3:I:84:ILE:HG13	3:I:85:VAL:H	1.84	0.42
2:M:90:TYR:HD1	2:M:120:LEU:HB2	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:221:LEU:O	2:M:223:ASP:N	2.53	0.42
2:M:267:TYR:O	2:M:268:ASP:C	2.56	0.42
2:M:602:GLU:HA	2:M:647:GLN:O	2.20	0.42
2:M:1052:MET:SD	3:N:623:VAL:CG1	3.08	0.42
3:N:1093:TYR:C	3:N:1096:ARG:HB3	2.38	0.42
3:I:625:TYR:OH	3:I:655:PRO:HG2	2.19	0.42
3:D:93:ILE:HG22	3:D:551:ASN:ND2	2.34	0.42
3:D:160:GLU:HG2	3:D:165:LYS:HG3	2.01	0.42
1:A:89:PHE:HZ	1:A:144:VAL:HG12	1.84	0.42
1:L:185:ARG:HG2	1:L:186:LEU:N	2.34	0.42
2:M:722:ILE:CD1	2:M:741:GLY:HA3	2.50	0.42
2:C:468:ARG:HG2	2:C:486:MET:O	2.19	0.42
3:N:731:LEU:HD22	3:N:779:ALA:O	2.19	0.42
2:C:135:VAL:O	2:C:392:SER:HA	2.20	0.42
3:N:361:VAL:O	3:N:382:GLU:HA	2.19	0.42
2:H:177:GLU:OE2	2:H:179:ASN:HB3	2.19	0.42
2:M:684:PHE:CD2	2:M:685:GLU:N	2.88	0.42
2:H:26:TYR:O	2:H:29:ALA:HB3	2.20	0.42
3:N:963:TYR:HD2	3:N:1002:LYS:HD3	1.82	0.42
1:L:153:ALA:HB2	1:L:168:ASP:N	2.34	0.42
3:N:659:LYS:O	3:N:659:LYS:HD3	2.19	0.42
1:K:65:PHE:N	1:K:65:PHE:CD1	2.85	0.42
3:N:1194:CYS:HB3	3:N:1373:ARG:NH1	2.34	0.42
2:C:501:THR:HG21	2:C:513:VAL:CG1	2.49	0.42
1:G:151:VAL:HB	1:G:169:ALA:HB3	2.01	0.42
2:C:729:LEU:C	2:C:729:LEU:HD23	2.40	0.42
3:I:1332:PRO:HB3	3:I:1421:LEU:HD21	2.01	0.42
2:M:343:GLN:NE2	2:M:343:GLN:HA	2.34	0.42
3:D:350:HIS:N	3:D:350:HIS:ND1	2.62	0.42
3:N:150:ARG:CB	3:N:150:ARG:HH11	2.33	0.42
2:H:15:LEU:O	2:H:586:ARG:NH2	2.48	0.42
2:C:1078:GLU:HA	2:C:1079:PRO:HD3	1.78	0.42
2:C:16:PRO:O	2:C:18:LEU:HD12	2.19	0.42
2:H:285:LEU:HD21	2:H:287:GLY:O	2.19	0.42
2:H:415:PRO:HD2	2:H:418:LEU:CD1	2.48	0.42
3:D:1031:ASN:OD1	3:D:1033:GLN:HB3	2.20	0.42
3:D:1217:ILE:HB	3:D:1480:PHE:HD2	1.83	0.42
2:H:930:LYS:H	2:H:930:LYS:HG3	1.70	0.42
3:I:888:GLU:O	3:I:889:ALA:C	2.58	0.42
2:C:267:TYR:CB	2:C:272:ALA:CB	2.85	0.42
3:N:880:ILE:CG2	3:N:881:LEU:H	2.32	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:O:47:LYS:O	4:O:54:LEU:CD1	2.68	0.42
3:D:142:LEU:HD23	3:D:146:PRO:N	2.35	0.42
3:D:704:ARG:HH12	3:D:743:ASP:CB	2.33	0.42
2:C:108:ILE:HB	2:C:368:THR:HG21	2.00	0.42
3:I:1011:PHE:HZ	3:I:1039:CYS:SG	2.43	0.42
3:N:1353:GLN:O	3:N:1354:LYS:C	2.58	0.42
7:Y:30:THR:O	7:Y:31:LYS:C	2.57	0.42
7:Y:31:LYS:HG2	7:Y:32:ILE:N	2.34	0.42
3:N:1434:TRP:O	3:N:1435:LEU:C	2.58	0.42
1:G:86:VAL:O	1:G:86:VAL:CG1	2.67	0.42
3:I:101:HIS:O	3:I:105:VAL:CG2	2.61	0.42
2:H:292:ARG:HD2	2:H:292:ARG:HA	1.79	0.42
3:I:498:VAL:HA	3:I:1452:ILE:HG21	2.02	0.42
2:M:1056:LYS:CD	3:N:623:VAL:HG13	2.36	0.42
3:N:762:GLN:NE2	4:O:20:THR:OG1	2.52	0.42
3:D:157:GLU:O	3:D:161:LEU:HB2	2.20	0.42
3:N:1310:ARG:CB	3:N:1327:ARG:CD	2.89	0.42
2:C:1006:HIS:CG	2:C:1027:PHE:HD1	2.36	0.42
2:M:666:LEU:HG	2:M:668:LEU:HD11	2.02	0.42
2:H:768:THR:HA	2:H:769:PRO:HD3	1.77	0.42
2:H:625:LEU:CD1	2:H:641:PRO:HG3	2.47	0.42
1:K:35:THR:O	1:K:39:PRO:HG2	2.19	0.42
3:N:606:ILE:HG13	3:N:606:ILE:O	2.20	0.42
2:M:457:ALA:HB3	2:M:538:GLN:HA	2.02	0.42
2:C:95:TYR:N	2:C:95:TYR:CD1	2.87	0.42
2:C:739:GLU:OE1	2:C:742:VAL:HB	2.19	0.42
2:H:26:TYR:OH	2:H:340:MET:HE2	2.19	0.42
3:I:1401:GLU:OE2	3:I:1402:ALA:N	2.53	0.42
3:D:543:LEU:HD23	3:D:546:ARG:HD2	2.01	0.42
3:I:979:GLU:O	7:Y:142:THR:CG2	2.68	0.42
1:K:176:ARG:HD2	1:K:200:TRP:CE3	2.55	0.42
1:A:197:LEU:N	1:A:197:LEU:HD23	2.34	0.42
1:K:167:VAL:HG12	1:K:168:ASP:H	1.84	0.42
3:N:47:GLU:O	3:N:51:GLY:CA	2.68	0.42
3:I:1440:PHE:HD2	3:I:1441:GLN:N	2.18	0.42
2:H:1100:GLN:OE1	3:I:9:ARG:NH2	2.53	0.42
3:I:1467:ILE:HG13	3:I:1467:ILE:H	1.55	0.42
3:I:446:VAL:O	3:I:446:VAL:HG23	2.18	0.42
3:N:653:PHE:N	3:N:653:PHE:CD1	2.88	0.42
6:Q:7:G:H2'	6:Q:8:C:O4'	2.20	0.42
2:C:279:GLU:HG3	2:C:280:LYS:N	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:164:PRO:HD2	2:H:170:PRO:O	2.19	0.42
2:C:987:ILE:HG23	3:D:948:THR:CG2	2.15	0.42
3:D:1481:VAL:O	3:D:1481:VAL:CG1	2.68	0.42
2:H:945:ARG:HE	2:H:949:LYS:NZ	2.18	0.42
3:N:1024:ALA:HB2	3:N:1035:ILE:HD11	2.01	0.42
3:N:804:LEU:CD1	3:N:829:VAL:HG11	2.49	0.42
2:C:1004:LYS:CB	3:D:630:VAL:HG23	2.50	0.42
3:D:928:ALA:HA	3:D:931:LEU:HD12	2.01	0.42
3:I:1147:ARG:O	3:I:1165:TYR:HA	2.19	0.42
1:L:216:GLU:HA	1:L:219:ARG:NH1	2.35	0.42
3:D:178:LEU:O	3:D:179:VAL:HG23	2.20	0.42
2:C:184:MET:SD	2:C:191:PHE:CE1	3.13	0.42
2:C:191:PHE:CZ	2:C:196:LEU:HB2	2.55	0.42
3:I:1448:THR:O	3:I:1451:ALA:HB3	2.19	0.42
2:C:374:ASN:O	2:C:377:PRO:HD2	2.20	0.42
2:C:1016:ILE:HG13	2:C:1017:THR:HG23	2.02	0.42
2:H:742:VAL:CG1	2:H:743:VAL:H	2.33	0.42
3:N:927:THR:O	3:N:928:ALA:C	2.56	0.42
2:H:1036:GLU:O	2:H:1039:ALA:HB3	2.19	0.42
2:H:957:LYS:HD3	2:H:961:GLU:HB3	2.02	0.42
2:H:329:GLY:HA3	2:H:489:THR:CG2	2.44	0.42
2:C:327:HIS:C	2:C:329:GLY:N	2.73	0.42
2:M:89:THR:HG21	2:M:383:ARG:NH2	2.34	0.42
3:D:1230:GLY:O	3:D:1231:GLU:C	2.58	0.42
3:N:12:LEU:HD21	3:N:104:PHE:CZ	2.54	0.42
1:L:209:GLU:O	1:L:213:GLN:NE2	2.53	0.42
1:F:88:ARG:HH12	1:F:90:LEU:HD11	1.84	0.42
3:D:586:ARG:HD3	3:D:586:ARG:HA	1.85	0.42
3:N:1403:LEU:HD22	3:N:1407:LEU:CD2	2.50	0.42
7:X:49:GLU:O	7:X:53:GLN:HB2	2.20	0.42
3:D:1492:LEU:HA	3:D:1492:LEU:HD22	1.90	0.42
3:N:17:LYS:O	3:N:20:SER:HB3	2.20	0.42
2:H:660:ALA:HB1	2:H:667:ALA:O	2.19	0.42
3:N:550:ARG:NE	3:N:573:MET:CE	2.82	0.42
1:A:79:ILE:HG13	1:A:80:LEU:N	2.33	0.42
2:H:402:SER:HA	2:H:566:THR:HG23	2.01	0.42
2:C:606:VAL:HG21	2:C:645:VAL:HG22	2.01	0.42
3:D:1151:ARG:HG2	3:D:1187:PRO:HB2	2.01	0.42
3:N:473:LEU:HA	3:N:476:GLU:HB2	2.01	0.42
1:A:107:LYS:NZ	1:A:113:ASP:OD2	2.45	0.42
1:B:96:THR:HG23	1:B:96:THR:O	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:230:ARG:HG2	2:C:230:ARG:HH11	1.85	0.42
2:M:776:SER:HA	2:M:780:GLU:HA	2.01	0.42
2:M:1047:HIS:O	2:M:1051:GLU:HB2	2.19	0.42
2:M:149:THR:OG1	2:M:150:PRO:HD2	2.20	0.42
2:M:569:VAL:HG12	2:M:996:LYS:O	2.19	0.42
2:C:684:PHE:CG	2:C:685:GLU:N	2.85	0.42
2:C:424:GLY:O	2:C:425:PHE:C	2.57	0.42
2:C:657:ASP:CG	2:C:662:GLU:HA	2.40	0.42
3:D:1258:ARG:NH2	3:D:1351:GLU:HG2	2.27	0.42
1:F:42:ARG:HH12	2:H:857:ASP:CA	2.30	0.42
3:N:134:VAL:CG1	3:N:135:LEU:H	2.33	0.42
3:D:647:ARG:HH11	3:D:724:GLN:NE2	2.18	0.42
4:O:40:LEU:C	4:O:42:PRO:HD2	2.40	0.42
2:C:369:PRO:CG	2:C:370:ALA:H	2.17	0.42
2:H:1037:VAL:HG12	2:H:1041:GLU:OE2	2.20	0.42
3:I:1094:LEU:O	3:I:1098:LEU:HB2	2.20	0.42
3:N:1353:GLN:O	3:N:1355:VAL:N	2.53	0.42
2:M:94:LEU:C	2:M:95:TYR:CD1	2.92	0.42
2:M:290:LEU:CD1	2:M:303:PHE:HE1	2.32	0.42
2:M:317:VAL:N	2:M:318:PRO:HD3	2.34	0.42
2:C:238:LEU:O	2:C:241:LEU:HB2	2.19	0.42
3:I:131:LYS:HE2	3:I:131:LYS:O	2.20	0.42
3:N:1305:LEU:N	3:N:1305:LEU:CD2	2.83	0.42
2:H:77:PRO:HB2	2:H:78:PHE:HD1	1.85	0.42
2:M:1012:PRO:CD	2:M:1026:GLN:HB2	2.50	0.42
1:L:14:ARG:HB2	1:L:22:GLU:HB2	2.02	0.42
2:C:127:PHE:O	2:C:133:ASP:HA	2.19	0.42
2:C:480:THR:HB	2:C:482:GLU:H	1.85	0.42
3:D:1232:PRO:HB2	3:D:1356:TYR:HE2	1.85	0.42
2:M:450:GLY:HA2	3:N:1078:ARG:NH1	2.35	0.42
1:G:24:VAL:HG22	1:G:196:THR:CG2	2.49	0.42
3:D:475:LYS:CA	3:D:478:LEU:HG	2.43	0.42
3:I:771:SER:HA	3:I:772:PRO:HD3	1.94	0.42
2:H:26:TYR:CE1	2:H:340:MET:HE3	2.55	0.42
1:A:18:ARG:O	1:A:201:THR:OG1	2.37	0.42
2:H:889:HIS:HE1	3:I:951:ILE:H	1.68	0.42
2:M:545:ASN:HB3	2:M:583:LEU:HD22	2.02	0.42
2:M:735:ARG:HH11	2:M:735:ARG:HG2	1.85	0.42
3:I:950:GLY:O	3:I:953:ASP:N	2.48	0.42
2:C:707:ARG:HG3	2:C:826:TYR:CD1	2.55	0.42
3:I:39:PRO:HB3	3:I:45:PHE:HB2	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:180:GLN:HE21	1:K:180:GLN:HB3	1.56	0.42
1:F:96:THR:OG1	1:F:143:ARG:HD2	2.20	0.42
3:I:129:PHE:HE2	3:I:579:ASP:OD2	2.02	0.42
3:D:1036:ARG:O	3:D:1041:LEU:N	2.52	0.41
3:D:1219:GLU:O	3:D:1221:VAL:N	2.49	0.41
3:D:1192:LEU:HG	3:D:1369:GLU:HB3	2.02	0.41
2:H:856:GLU:HB2	2:H:857:ASP:OD1	2.20	0.41
3:I:1481:VAL:O	3:I:1483:PHE:N	2.53	0.41
2:H:863:ASP:CG	2:H:865:THR:HG22	2.41	0.41
1:K:88:ARG:HD2	1:K:123:MET:HE1	2.01	0.41
3:I:800:LYS:HE2	3:I:824:ASN:O	2.18	0.41
3:D:33:ASN:HB2	3:D:40:GLU:OE2	2.19	0.41
2:C:140:ILE:HG13	2:C:410:ILE:HG23	2.02	0.41
3:N:143:ASN:ND2	3:N:145:VAL:HG12	2.33	0.41
3:N:133:ILE:HD12	3:N:158:TYR:HD2	1.85	0.41
2:C:1005:MET:HE1	3:D:724:GLN:CA	2.50	0.41
3:N:1387:SER:HB3	3:N:1391:GLU:OE2	2.20	0.41
3:D:1122:LEU:HD12	3:D:1122:LEU:N	2.35	0.41
3:D:885:ILE:HD12	3:D:937:TYR:CZ	2.55	0.41
3:N:851:LEU:N	3:N:851:LEU:HD23	2.35	0.41
2:M:135:VAL:C	2:M:136:ILE:HD12	2.40	0.41
2:C:793:PRO:O	2:C:794:PRO:C	2.58	0.41
1:G:86:VAL:CG1	1:G:124:ASN:ND2	2.79	0.41
2:C:572:ILE:HD12	2:C:573:ARG:N	2.16	0.41
2:H:662:GLU:O	2:H:663:ASN:HB2	2.19	0.41
2:M:943:VAL:CG1	2:M:944:LEU:N	2.82	0.41
2:M:966:LEU:HD11	2:M:986:PRO:HG2	2.02	0.41
3:I:1434:TRP:CG	3:I:1435:LEU:N	2.88	0.41
3:I:1135:ARG:HE	3:I:1140:ILE:HD13	1.85	0.41
2:H:115:LEU:HD11	2:H:378:LEU:HB2	2.02	0.41
3:I:142:LEU:HA	3:I:145:VAL:O	2.19	0.41
1:F:20:TYR:CD2	1:F:21:GLY:N	2.87	0.41
3:I:699:VAL:HB	3:I:716:PHE:O	2.20	0.41
2:H:76:PRO:O	2:H:77:PRO:C	2.57	0.41
2:H:88:LEU:HD22	2:H:88:LEU:HA	1.76	0.41
3:N:1147:ARG:HH12	3:N:1190:SER:HB2	1.85	0.41
3:N:700:VAL:HG13	3:N:718:PRO:HG3	2.02	0.41
2:C:744:ARG:CG	2:C:747:ALA:HB2	2.41	0.41
3:D:654:LYS:HB3	3:D:655:PRO:CD	2.42	0.41
1:L:115:LEU:O	1:L:115:LEU:CD1	2.62	0.41
3:D:421:LEU:HB2	3:D:427:VAL:O	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:850:ALA:HA	3:N:632:VAL:HG13	2.00	0.41
2:H:90:TYR:CE1	2:H:120:LEU:HB2	2.55	0.41
2:M:1090:LYS:HD2	3:N:90:MET:SD	2.60	0.41
2:M:498:GLN:HE21	2:M:499:ALA:N	2.17	0.41
2:M:523:ILE:CD1	2:M:523:ILE:C	2.88	0.41
2:H:111:ASP:O	2:H:112:GLU:OE1	2.38	0.41
3:I:41:ARG:HD2	3:I:42:ASP:N	2.35	0.41
3:I:57:GLU:HB2	3:I:64:LYS:HG3	2.02	0.41
2:M:776:SER:HA	2:M:780:GLU:HB3	2.02	0.41
7:Y:68:ILE:HD13	7:Y:108:ALA:CB	2.50	0.41
1:A:122:ILE:HD12	1:A:122:ILE:N	2.35	0.41
1:F:178:ALA:HB2	2:H:864:GLY:H	1.84	0.41
2:H:159:ILE:CG2	2:H:175:GLU:HG3	2.49	0.41
2:C:881:ASN:O	2:C:884:GLN:HG2	2.20	0.41
7:X:43:TYR:O	7:X:45:ASP:N	2.53	0.41
4:E:14:ASP:OD2	4:E:18:ARG:NH2	2.54	0.41
4:J:47:LYS:CA	4:J:54:LEU:HB3	2.44	0.41
4:J:30:LEU:CD2	4:J:63:TRP:HB2	2.46	0.41
2:C:263:ASP:C	2:C:264:PRO:O	2.56	0.41
3:D:1220:ALA:HB1	3:D:1223:ILE:CG1	2.50	0.41
3:D:1434:TRP:CD1	3:D:1434:TRP:C	2.92	0.41
1:K:18:ARG:NH1	1:K:88:ARG:NE	2.68	0.41
1:K:199:ILE:HG13	1:K:207:PRO:HB3	2.02	0.41
3:N:133:ILE:CG2	3:N:134:VAL:H	2.34	0.41
3:N:785:ILE:O	3:N:786:ILE:C	2.57	0.41
7:Z:35:GLU:O	7:Z:38:GLU:HB2	2.20	0.41
3:N:1380:GLU:CG	3:N:1381:VAL:N	2.84	0.41
3:D:907:GLU:O	3:D:911:LEU:CD1	2.63	0.41
3:N:1258:ARG:O	3:N:1262:LEU:HB2	2.19	0.41
3:N:771:SER:HA	3:N:772:PRO:HD3	1.88	0.41
2:M:195:LEU:HG	2:M:238:LEU:CG	2.41	0.41
3:N:954:ALA:HA	3:N:1020:LEU:CD2	2.51	0.41
3:N:366:LYS:CE	3:N:369:ALA:HB2	2.33	0.41
1:L:76:VAL:O	1:L:79:ILE:HG12	2.20	0.41
2:H:1012:PRO:HD3	2:H:1026:GLN:HB2	2.02	0.41
2:C:689:VAL:HG11	2:C:853:LEU:HD22	2.02	0.41
2:H:1092:LEU:O	2:H:1097:LEU:O	2.38	0.41
2:M:670:GLN:HB2	2:M:700:TYR:HE1	1.84	0.41
3:N:1272:ALA:HB1	3:N:1326:THR:HB	2.01	0.41
3:N:646:LYS:O	3:N:649:ALA:HB3	2.20	0.41
3:N:646:LYS:HE3	3:N:647:ARG:HE	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:886:LEU:HD12	2:H:886:LEU:HA	1.51	0.41
2:H:886:LEU:O	2:H:887:GLU:C	2.58	0.41
3:N:701:LEU:CD1	3:N:701:LEU:N	2.77	0.41
1:F:68:ILE:N	1:F:68:ILE:CD1	2.80	0.41
3:D:1287:GLU:O	3:D:1289:LYS:N	2.53	0.41
2:C:211:LEU:HD11	2:C:311:PHE:CD1	2.56	0.41
1:K:63:HIS:CD2	1:K:66:SER:HB2	2.55	0.41
3:D:997:THR:HG23	7:X:57:ARG:HH12	1.85	0.41
2:H:451:LEU:O	2:H:452:ILE:HD12	2.21	0.41
3:D:132:TYR:CD1	3:D:132:TYR:N	2.87	0.41
1:K:56:VAL:CG1	1:K:57:TYR:H	2.32	0.41
2:M:717:LEU:O	2:M:761:PHE:CD2	2.73	0.41
2:M:301:GLU:O	2:M:301:GLU:HG2	2.20	0.41
2:H:17:PRO:HB2	2:H:20:GLU:HB3	2.01	0.41
4:O:35:PHE:HE2	4:O:63:TRP:CZ2	2.38	0.41
3:D:615:ARG:O	3:D:619:LEU:HG	2.20	0.41
3:I:551:ASN:O	3:I:555:LYS:HG3	2.20	0.41
3:I:925:GLU:OE2	4:J:6:ILE:N	2.53	0.41
3:N:1363:LEU:HG	3:N:1363:LEU:O	2.18	0.41
3:D:1360:GLY:CA	7:X:34:GLN:HB2	2.50	0.41
3:I:1405:GLU:OE2	3:I:1411:GLY:O	2.38	0.41
2:C:400:PRO:O	2:C:401:LEU:C	2.56	0.41
2:H:247:PRO:HA	2:H:248:PRO:HD3	1.74	0.41
2:C:343:GLN:O	2:C:346:VAL:HB	2.19	0.41
2:H:191:PHE:HE2	2:H:195:LEU:CB	2.31	0.41
2:C:678:PRO:CD	3:D:947:ILE:HD11	2.49	0.41
3:D:1094:LEU:CG	3:D:1098:LEU:CD1	2.93	0.41
3:D:1109:GLU:OE1	3:D:1111:ASP:N	2.53	0.41
3:D:1207:TYR:HA	3:D:1214:PRO:HA	2.02	0.41
2:H:984:GLU:CG	3:I:944:THR:O	2.66	0.41
1:K:41:ARG:HG3	1:K:177:VAL:HG11	2.02	0.41
3:N:1031:ASN:HB3	3:N:1034:GLN:CD	2.40	0.41
3:N:734:GLU:OE1	7:Z:38:GLU:O	2.37	0.41
3:I:727:GLN:HE21	3:I:727:GLN:HB3	1.68	0.41
2:H:1106:ASP:OD1	3:I:7:LYS:CD	2.63	0.41
2:C:6:PHE:HE2	2:C:917:LEU:HD11	1.85	0.41
3:I:806:PHE:CE1	3:I:809:PRO:O	2.74	0.41
3:I:814:ALA:O	3:I:818:ARG:HG3	2.19	0.41
2:M:253:ALA:HA	2:M:256:TYR:HB3	2.01	0.41
2:M:141:HIS:O	2:M:331:ARG:HA	2.20	0.41
2:M:1097:LEU:HD12	3:N:10:ILE:HG23	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:1095:LEU:O	2:H:1096:ALA:C	2.59	0.41
2:C:56:GLU:HG2	2:C:356:ARG:CG	2.36	0.41
2:H:772:ARG:NH1	3:N:484:PRO:C	2.73	0.41
3:N:762:GLN:HG2	3:N:762:GLN:H	1.63	0.41
2:H:203:ASP:O	2:H:204:GLN:C	2.58	0.41
7:X:128:ALA:HB3	7:X:140:LEU:HD11	2.02	0.41
2:M:1019:GLN:CD	3:N:621:LYS:CG	2.88	0.41
1:K:68:ILE:HA	1:K:69:PRO:HD3	1.83	0.41
2:C:25:SER:O	2:C:29:ALA:HB2	2.20	0.41
3:I:38:LYS:HB3	3:I:38:LYS:HE2	1.71	0.41
2:M:679:PHE:CE2	2:M:853:LEU:HD21	2.55	0.41
3:D:1055:VAL:HA	3:D:1056:PRO:HD3	1.79	0.41
3:D:1025:GLN:NE2	3:D:1025:GLN:CA	2.73	0.41
3:D:1198:TYR:OH	3:D:1394:VAL:HG11	2.19	0.41
2:M:630:ARG:NH1	2:M:630:ARG:CG	2.82	0.41
2:C:451:LEU:HA	2:C:451:LEU:HD23	1.80	0.41
1:L:54:THR:CG2	1:L:158:ILE:HG13	2.49	0.41
2:H:1051:GLU:C	2:H:1056:LYS:HD2	2.41	0.41
3:D:1256:LEU:HB3	3:D:1257:PRO:HD3	2.01	0.41
3:D:888:GLU:O	3:D:889:ALA:C	2.58	0.41
1:G:190:THR:CG2	1:G:190:THR:O	2.68	0.41
7:Z:84:GLY:HA2	7:Z:130:LEU:CD1	2.50	0.41
1:A:163:ASN:HD22	1:A:163:ASN:HA	1.62	0.41
3:D:1236:LEU:O	3:D:1237:THR:C	2.59	0.41
2:H:185:LYS:HE2	2:H:188:LYS:HA	2.00	0.41
2:C:971:LYS:HA	2:C:988:VAL:HA	2.03	0.41
3:N:977:ALA:CB	3:N:983:LEU:HD21	2.50	0.41
3:D:1225:ALA:HB2	3:D:1370:ILE:CD1	2.49	0.41
3:D:1375:MET:O	3:D:1376:MET:HG3	2.21	0.41
3:N:438:ASP:OD2	3:N:445:ARG:NH1	2.54	0.41
3:N:141:ILE:HD13	3:N:142:LEU:O	2.19	0.41
3:D:647:ARG:NH1	3:D:724:GLN:NE2	2.68	0.41
3:N:1026:SER:O	3:N:1028:ALA:N	2.53	0.41
4:O:54:LEU:CD2	4:O:58:PRO:HG2	2.46	0.41
3:N:117:ASP:CG	3:N:117:ASP:O	2.59	0.41
3:N:489:ARG:CG	3:N:490:ALA:N	2.83	0.41
3:D:794:GLN:O	3:D:861:GLN:HB3	2.21	0.41
3:D:789:LEU:HD13	3:D:934:LEU:HD22	2.01	0.41
2:C:355:VAL:HG22	2:C:355:VAL:O	2.19	0.41
3:N:1021:TYR:CE2	3:N:1025:GLN:HG3	2.56	0.41
3:D:477:LEU:HD22	3:D:492:ALA:CB	2.46	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:470:PRO:O	2:H:534:VAL:HG23	2.20	0.41
2:M:332:ARG:CG	2:M:464:LEU:O	2.67	0.41
3:D:642:CYS:HB3	3:D:716:PHE:CG	2.55	0.41
1:L:74:ASP:O	1:L:75:VAL:C	2.59	0.41
2:C:64:LEU:HB2	2:C:359:MET:CE	2.49	0.41
3:I:179:VAL:CG2	3:I:189:GLN:NE2	2.83	0.41
2:C:358:ARG:NH2	2:C:374:ASN:HB3	2.17	0.41
3:D:93:ILE:HD13	3:D:548:ILE:HD13	2.01	0.41
3:N:1272:ALA:CB	3:N:1326:THR:HB	2.51	0.41
2:M:1070:ILE:CG2	3:N:655:PRO:HB2	2.51	0.41
2:C:759:THR:HB	2:C:785:VAL:HG22	2.02	0.41
3:I:1397:LYS:CD	3:I:1432:LYS:NZ	2.83	0.41
1:K:84:GLU:O	1:K:124:ASN:ND2	2.54	0.41
2:C:84:ARG:NE	2:C:133:ASP:OD2	2.25	0.41
3:D:470:LEU:HD12	3:D:503:LEU:HD23	2.02	0.41
3:N:1217:ILE:HB	3:N:1480:PHE:CD2	2.56	0.41
2:M:654:LEU:HD13	2:M:663:ASN:C	2.41	0.41
1:L:97:VAL:CG1	1:L:98:THR:N	2.84	0.41
7:Z:82:VAL:CG1	7:Z:83:ILE:N	2.83	0.41
7:Z:7:LEU:O	7:Z:74:ILE:HA	2.20	0.41
2:C:443:THR:HA	2:C:444:PRO:HD3	1.76	0.41
2:M:437:ARG:HG2	2:M:467:ILE:O	2.20	0.41
3:D:543:LEU:HD22	3:D:580:ALA:HB1	2.02	0.41
3:N:55:ASP:O	3:N:56:TYR:CB	2.66	0.41
1:B:108:GLU:OE1	1:B:128:HIS:NE2	2.53	0.41
1:K:132:LEU:CD2	1:K:136:GLY:O	2.67	0.41
1:K:227:ASN:HA	1:K:228:PRO:HD3	1.75	0.41
7:Y:61:ARG:HG2	7:Y:61:ARG:NH2	2.35	0.41
4:J:25:LYS:O	4:J:29:GLN:HG3	2.21	0.41
3:N:592:THR:HG22	3:N:593:ASN:N	2.35	0.41
3:I:423:ASP:OD1	3:I:423:ASP:N	2.53	0.41
2:C:1024:LYS:HA	2:C:1024:LYS:HE3	2.02	0.41
1:F:178:ALA:HB2	2:H:864:GLY:N	2.36	0.41
2:C:269:LEU:HG	2:C:287:GLY:O	2.20	0.41
3:N:1408:ILE:HD12	3:N:1408:ILE:N	2.36	0.41
2:M:1081:VAL:O	2:M:1081:VAL:HG12	2.20	0.41
2:C:10:ARG:HA	2:C:10:ARG:HD3	1.93	0.41
3:N:399:ARG:HD2	3:N:401:TYR:OH	2.20	0.41
1:F:32:PHE:HA	1:F:35:THR:OG1	2.19	0.41
3:D:136:ASP:H	3:D:137:PRO:CD	2.33	0.41
2:M:224:GLU:HA	2:M:224:GLU:OE1	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1038:TRP:O	2:C:1039:ALA:C	2.58	0.41
2:C:1097:LEU:HD13	3:D:1451:ALA:HB2	1.98	0.41
2:C:272:ALA:O	2:C:276:LYS:NZ	2.38	0.41
2:C:338:GLU:C	2:C:341:THR:HG22	2.39	0.41
2:C:431:HIS:N	2:C:434:HIS:CE1	2.72	0.41
3:N:160:GLU:OE2	3:N:165:LYS:HD2	2.21	0.41
3:N:1031:ASN:OD1	3:N:1033:GLN:HB3	2.20	0.41
4:O:54:LEU:O	4:O:58:PRO:HD3	2.21	0.41
3:N:486:ARG:HA	3:N:489:ARG:HD3	2.02	0.41
3:N:489:ARG:HG3	3:N:490:ALA:N	2.35	0.41
7:Y:41:ASP:HB3	7:Y:42:ASP:H	1.71	0.41
3:D:133:ILE:HD12	3:D:158:TYR:CD2	2.55	0.41
3:D:834:THR:HB	3:D:838:ARG:CD	2.32	0.41
3:N:1219:GLU:O	3:N:1221:VAL:N	2.48	0.41
3:N:1256:LEU:HG	3:N:1260:ILE:HD11	2.02	0.41
3:N:770:LEU:CD2	3:N:775:GLY:O	2.69	0.41
3:D:630:VAL:HG12	3:D:631:ILE:N	2.35	0.41
2:C:54:ILE:CD1	2:C:355:VAL:HG13	2.47	0.41
3:I:813:LEU:C	3:I:813:LEU:HD12	2.37	0.41
3:N:1007:VAL:HG12	3:N:1011:PHE:HE2	1.83	0.41
1:K:219:ARG:O	1:K:222:LEU:HB2	2.20	0.41
4:E:47:LYS:HB3	4:E:55:PHE:HE2	1.86	0.41
2:H:1010:THR:HG22	2:H:1011:GLY:N	2.36	0.41
2:C:695:LEU:HD21	2:C:832:LYS:HD3	2.03	0.41
2:C:199:VAL:HG13	2:C:235:LEU:HG	2.03	0.41
2:C:64:LEU:CD1	2:C:359:MET:HG3	2.50	0.41
3:I:1459:LEU:HB2	3:I:1470:ARG:HH22	1.85	0.41
3:I:1369:GLU:C	3:I:1372:VAL:HG12	2.39	0.41
2:C:344:PHE:HD2	2:C:378:LEU:HD11	1.86	0.41
2:C:344:PHE:CD2	2:C:378:LEU:HD11	2.56	0.41
3:D:97:THR:HB	3:D:571:LYS:HD2	2.02	0.41
3:I:1318:TYR:CD1	3:I:1319:VAL:N	2.89	0.41
2:C:976:ASP:HB3	2:C:979:THR:HG22	2.01	0.41
3:D:387:LEU:N	3:D:387:LEU:CD1	2.77	0.41
1:F:195:LEU:HD12	1:F:196:THR:N	2.35	0.41
7:X:57:ARG:HG2	7:X:57:ARG:HH21	1.84	0.41
2:M:449:ILE:HG12	2:M:450:GLY:N	2.35	0.41
1:K:165:ILE:HG12	1:K:165:ILE:O	2.21	0.41
3:N:986:ARG:O	3:N:989:TYR:HB3	2.20	0.41
2:M:1042:ALA:CB	3:N:1227:GLN:NE2	2.82	0.41
2:H:1067:TYR:O	2:H:1071:ILE:HG13	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1100:GLN:HE21	2:C:1100:GLN:CA	2.33	0.41
7:Z:48:LEU:HD12	7:Z:52:LYS:CE	2.51	0.41
2:C:3:ILE:N	2:C:3:ILE:CD1	2.83	0.41
4:J:40:LEU:HD23	4:J:67:GLU:HA	2.00	0.41
2:C:153:ALA:O	2:C:155:PRO:CD	2.69	0.41
3:N:610:LYS:O	3:N:615:ARG:HG2	2.21	0.41
7:Y:48:LEU:CD1	7:Y:52:LYS:HE2	2.50	0.41
3:I:1115:THR:HG21	3:I:1151:ARG:HH21	1.85	0.41
2:H:972:VAL:HG22	2:H:989:VAL:CG2	2.50	0.41
3:D:1015:TYR:N	3:D:1016:PRO:HD3	2.35	0.41
3:N:1406:ARG:HG3	3:N:1406:ARG:HH11	1.86	0.41
3:D:1020:LEU:HA	3:D:1020:LEU:HD12	1.69	0.41
1:A:65:PHE:CD1	1:A:65:PHE:N	2.88	0.41
7:Y:43:TYR:O	7:Y:44:ASP:C	2.59	0.41
2:C:516:ARG:HG3	3:D:1068:LEU:CD1	2.51	0.41
3:D:785:ILE:O	3:D:786:ILE:C	2.58	0.41
3:D:1365:ASP:O	3:D:1366:LYS:C	2.59	0.41
2:H:424:GLY:O	2:H:425:PHE:C	2.57	0.41
4:J:19:LEU:O	4:J:19:LEU:HD12	2.20	0.41
4:J:63:TRP:O	4:J:64:ALA:C	2.58	0.41
2:H:862:PRO:HB3	2:H:929:ARG:NH2	2.24	0.41
2:M:203:ASP:O	2:M:204:GLN:C	2.59	0.41
3:D:813:LEU:HD12	3:D:814:ALA:CA	2.51	0.41
2:C:1084:SER:C	2:C:1087:VAL:HG12	2.41	0.41
1:K:206:THR:HG23	1:K:209:GLU:H	1.84	0.41
2:C:1061:GLU:CD	3:D:84:ILE:HD12	2.37	0.41
2:C:139:GLN:C	2:C:334:ARG:HG3	2.41	0.41
3:N:575:GLN:O	3:N:579:ASP:OD2	2.39	0.41
2:H:52:PHE:CZ	2:H:53:PRO:HG3	2.56	0.41
3:I:1230:GLY:O	3:I:1231:GLU:C	2.58	0.41
2:M:52:PHE:CD1	2:M:68:PHE:N	2.88	0.41
2:M:158:TYR:CD1	2:M:313:LEU:HD21	2.56	0.41
7:Y:32:ILE:O	7:Y:35:GLU:HB2	2.21	0.41
3:N:1055:VAL:CG1	3:N:1056:PRO:N	2.82	0.41
3:D:508:ARG:CB	3:D:509:PRO:HD2	2.49	0.41
3:I:1447:LEU:N	3:I:1447:LEU:HD12	2.35	0.41
1:F:83:LYS:HE2	1:F:83:LYS:HB3	1.89	0.41
3:N:1045:MET:HG3	3:N:1073:SER:HA	2.03	0.41
2:C:799:ILE:N	2:C:799:ILE:CD1	2.75	0.41
2:M:501:THR:HA	2:M:502:PRO:HD3	1.79	0.41
3:I:1129:THR:CG2	3:I:1130:ARG:N	2.76	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:442:GLU:OE2	2:M:543:ASN:HB3	2.21	0.41
2:C:206:THR:HG23	2:C:207:LEU:H	1.86	0.41
3:N:12:LEU:HD23	3:N:12:LEU:HA	1.75	0.41
3:D:672:ALA:O	3:D:676:MET:HB2	2.20	0.41
2:C:583:LEU:O	2:C:584:GLU:C	2.59	0.41
1:K:189:ARG:CG	1:K:191:ASP:OD1	2.67	0.41
3:I:1402:ALA:HB2	3:I:1415:VAL:HG23	2.03	0.41
4:O:24:ALA:O	4:O:27:ALA:N	2.52	0.41
2:M:124:ASP:OD1	2:M:125:GLY:N	2.54	0.41
3:I:26:VAL:HG11	3:I:44:LEU:HD12	2.01	0.41
1:B:55:SER:OG	1:B:158:ILE:HB	2.20	0.41
1:K:107:LYS:HG2	1:K:108:GLU:H	1.84	0.41
2:M:925:TYR:O	2:M:925:TYR:CD2	2.74	0.41
3:D:1254:GLN:H	3:D:1254:GLN:HG3	1.65	0.41
3:N:892:ASP:HB3	3:N:895:VAL:HG23	2.01	0.41
1:B:106:PRO:HA	1:B:132:LEU:O	2.20	0.41
2:C:679:PHE:C	3:D:943:THR:HG21	2.41	0.41
7:Z:103:GLN:OE1	7:Z:116:PRO:HG2	2.21	0.41
7:Z:123:SER:OG	7:Z:124:PRO:HD2	2.19	0.41
1:A:43:ILE:HG13	1:A:43:ILE:H	1.61	0.41
3:D:501:ALA:HB1	3:D:1453:ALA:CA	2.51	0.41
3:I:833:GLU:O	3:I:834:THR:CG2	2.68	0.41
1:B:76:VAL:O	1:B:80:LEU:HB2	2.20	0.41
3:D:50:PHE:CG	3:D:522:PRO:CD	3.04	0.41
3:D:84:ILE:C	3:D:86:ARG:H	2.21	0.41
3:N:788:GLY:O	3:N:792:ILE:HG22	2.21	0.41
4:O:47:LYS:C	4:O:54:LEU:HD13	2.41	0.41
2:C:142:ARG:HE	2:C:325:ILE:HG23	1.85	0.41
3:D:355:VAL:HG21	3:D:367:ILE:HG23	2.02	0.41
2:C:577:PRO:C	2:C:579:VAL:N	2.73	0.41
2:C:110:GLU:HG3	2:C:369:PRO:HG3	2.03	0.41
2:C:68:PHE:CD1	2:C:69:LEU:N	2.89	0.41
3:I:996:TRP:O	3:I:999:THR:N	2.54	0.41
2:M:148:PHE:HE1	2:M:309:TYR:CD2	2.35	0.41
3:I:1145:TYR:O	3:I:1147:ARG:HG2	2.21	0.41
2:M:140:ILE:C	2:M:140:ILE:HD12	2.41	0.41
3:D:511:TRP:C	3:D:513:ILE:N	2.73	0.41
2:H:603:VAL:CG2	2:H:647:GLN:HB3	2.51	0.41
3:I:1192:LEU:HD11	3:I:1369:GLU:HG2	2.02	0.41
3:D:1007:VAL:HG11	3:D:1039:CYS:HB2	2.03	0.41
3:I:139:GLY:CA	3:I:162:ARG:NH2	2.81	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1066:THR:HG23	3:N:1069:GLU:N	2.32	0.41
3:I:661:MET:CE	3:I:673:ALA:HB1	2.50	0.41
3:I:1251:ASP:N	3:I:1251:ASP:OD2	2.53	0.41
2:M:609:ASN:HA	2:M:609:ASN:HD22	1.65	0.41
3:N:3:LYS:HB3	3:N:4:GLU:H	1.60	0.41
3:D:180:LYS:HD2	3:D:180:LYS:N	2.36	0.41
2:M:274:ARG:CG	2:M:285:LEU:HB3	2.49	0.41
2:M:903:SER:OG	2:M:908:GLY:HA3	2.20	0.41
2:H:897:LEU:HB3	2:H:899:GLN:NE2	2.26	0.41
2:C:508:ILE:HG22	2:C:509:ALA:N	2.35	0.41
2:C:395:LYS:HE3	2:C:407:LYS:HD2	2.02	0.41
3:N:215:TYR:CD2	3:N:215:TYR:O	2.73	0.41
7:X:57:ARG:HH22	7:X:61:ARG:HD2	1.85	0.41
4:E:26:ARG:NH2	4:E:67:GLU:OE2	2.54	0.41
7:Z:133:ARG:O	7:Z:134:VAL:C	2.58	0.41
3:D:701:LEU:O	3:D:702:LEU:HD12	2.20	0.41
3:N:17:LYS:CG	3:N:21:TRP:HE1	2.30	0.41
2:H:468:ARG:HB3	2:H:485:TYR:HB3	2.02	0.41
3:I:1156:LEU:HD23	3:I:1156:LEU:HA	1.74	0.41
3:N:598:ARG:HA	3:N:599:PRO:HD3	1.91	0.41
2:C:83:CYS:HA	2:C:88:LEU:HB3	2.03	0.41
2:H:511:GLU:O	2:H:526:PRO:HD3	2.21	0.41
2:M:360:LEU:C	2:M:362:GLY:N	2.74	0.41
2:H:163:ILE:C	2:H:163:ILE:HD12	2.41	0.41
2:H:332:ARG:NH2	2:H:338:GLU:CD	2.74	0.41
2:C:843:HIS:CD2	2:C:884:GLN:CA	3.03	0.41
3:D:1206:GLY:O	3:D:1215:VAL:HG23	2.21	0.41
4:J:46:PRO:CB	4:J:54:LEU:HD22	2.51	0.41
2:H:865:THR:HA	2:H:866:PRO:HD3	1.69	0.41
2:C:258:TYR:CZ	2:C:264:PRO:HG3	2.55	0.41
3:I:181:ASP:OD1	3:I:441:ARG:CZ	2.68	0.41
2:C:1034:GLU:OE1	2:C:1038:TRP:HZ2	2.04	0.41
3:D:1462:LEU:O	3:D:1466:VAL:HG23	2.21	0.41
2:C:328:LEU:HD13	2:C:328:LEU:H	1.86	0.41
3:N:907:GLU:N	3:N:910:SER:OG	2.44	0.41
3:N:727:GLN:HB3	3:N:727:GLN:HE21	1.60	0.41
3:N:496:LEU:HA	3:N:499:VAL:CG2	2.51	0.41
3:D:841:TYR:N	3:D:841:TYR:CD2	2.87	0.41
3:D:877:PRO:C	3:D:880:ILE:HG22	2.34	0.41
3:N:1347:TYR:HD2	3:N:1348:LEU:HD12	1.86	0.41
3:D:181:ASP:OD1	3:D:441:ARG:NE	2.53	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:368:THR:HG22	2:H:369:PRO:N	2.36	0.41
3:I:1462:LEU:HD23	3:I:1473:PRO:HD2	2.03	0.41
2:C:922:PHE:HZ	2:C:963:LEU:HB3	1.85	0.41
3:N:778:LEU:HD12	3:N:778:LEU:HA	1.83	0.41
2:M:94:LEU:HG	2:M:94:LEU:O	2.18	0.41
3:I:1045:MET:HG3	3:I:1073:SER:HA	2.03	0.41
3:I:646:LYS:HG3	3:I:647:ARG:HG3	2.02	0.41
3:D:26:VAL:HG21	3:D:519:VAL:HG21	2.01	0.41
2:H:501:THR:CG2	2:H:513:VAL:HG13	2.51	0.41
1:K:156:HIS:HB2	1:K:158:ILE:HD11	2.03	0.41
2:M:1043:TYR:CE2	3:N:763:MET:HA	2.56	0.41
3:N:1377:LYS:HG2	3:N:1378:TYR:CD1	2.55	0.41
1:K:127:LEU:HD12	1:K:128:HIS:N	2.35	0.41
1:F:102:LYS:HD3	1:F:139:ASN:ND2	2.35	0.41
2:C:367:LEU:CD2	2:C:371:LYS:HE3	2.43	0.41
3:I:590:PRO:O	3:I:600:LEU:CD1	2.69	0.41
3:I:600:LEU:CD1	3:I:600:LEU:H	2.15	0.41
2:H:26:TYR:CD2	2:H:121:MET:HB2	2.55	0.41
3:D:171:LEU:HD22	3:D:172:PRO:HD2	1.98	0.41
3:D:1160:LEU:CD2	3:D:1164:ARG:HH11	2.33	0.41
3:I:1097:LYS:O	3:I:1100:ASP:N	2.53	0.41
7:X:6:LYS:HG2	7:X:75:LEU:HD11	2.02	0.41
2:M:1063:ARG:NH2	3:N:625:TYR:CZ	2.89	0.41
3:I:1168:MET:HG3	3:I:1172:HIS:CE1	2.56	0.41
2:M:188:LYS:NZ	2:M:188:LYS:HB2	2.34	0.41
7:Z:99:ARG:NH1	7:Z:99:ARG:CG	2.83	0.41
1:B:183:ASP:HA	1:B:192:LEU:O	2.21	0.41
1:G:16:GLN:HA	1:G:16:GLN:NE2	2.36	0.41
3:I:1276:GLU:HA	3:I:1338:ALA:HB2	2.01	0.41
3:I:1020:LEU:HD12	3:I:1020:LEU:HA	1.73	0.41
7:Y:12:TYR:CD2	7:Y:12:TYR:C	2.94	0.41
3:I:1277:ILE:HD13	3:I:1277:ILE:HA	1.97	0.41
2:H:141:HIS:N	2:H:141:HIS:CD2	2.88	0.41
2:H:194:VAL:O	2:H:195:LEU:C	2.59	0.41
2:H:281:LEU:HD11	2:H:306:THR:N	2.35	0.41
2:H:165:LEU:HD12	2:H:165:LEU:HA	1.91	0.41
2:H:274:ARG:CG	2:H:285:LEU:CB	2.96	0.41
2:C:841:ASN:ND2	2:C:843:HIS:HB2	2.35	0.41
2:C:516:ARG:CD	3:D:1068:LEU:HD22	2.51	0.41
3:D:1348:LEU:O	3:D:1349:VAL:C	2.58	0.41
3:D:1371:VAL:HG12	3:D:1372:VAL:N	2.36	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1258:ARG:CZ	3:D:1262:LEU:HD13	2.51	0.41
3:N:412:GLY:HA2	3:N:434:ARG:CD	2.41	0.41
1:F:35:THR:H	1:F:35:THR:HG1	1.56	0.41
2:C:170:PRO:CD	2:C:263:ASP:HB3	2.49	0.41
1:A:39:PRO:HG3	1:B:39:PRO:CG	2.49	0.41
2:C:1090:LYS:CE	3:D:90:MET:CG	2.78	0.41
2:C:1013:TYR:CE1	2:C:1020:PRO:HG3	2.56	0.41
2:C:1013:TYR:HA	2:C:1019:GLN:O	2.21	0.41
2:C:1054:THR:HG21	2:C:1082:PRO:HG3	2.03	0.41
3:D:1451:ALA:O	3:D:1452:ILE:C	2.58	0.41
3:D:17:LYS:HG2	3:D:21:TRP:NE1	2.35	0.41
1:K:91:ASN:HD22	1:K:93:SER:CB	2.34	0.41
2:C:863:ASP:OD1	2:C:865:THR:HG22	2.20	0.41
3:I:838:ARG:HB3	3:I:865:THR:HG23	1.99	0.41
3:I:914:LEU:HD23	3:I:914:LEU:C	2.41	0.41
2:C:265:ARG:N	2:C:289:THR:HG21	2.35	0.41
2:C:332:ARG:NH2	2:C:338:GLU:CD	2.74	0.41
4:O:47:LYS:C	4:O:54:LEU:CD1	2.89	0.41
2:H:683:ASN:HA	2:H:687:ALA:CB	2.44	0.41
2:H:693:GLU:HA	2:H:696:LYS:HD2	2.02	0.41
3:D:800:LYS:HD2	3:D:804:LEU:HD23	2.00	0.41
3:D:877:PRO:HA	3:D:880:ILE:HG22	2.02	0.41
2:M:100:LEU:HB2	2:M:372:LEU:HD21	2.03	0.41
3:N:770:LEU:HD23	3:N:770:LEU:HA	1.72	0.41
3:N:1192:LEU:HD21	3:N:1372:VAL:CG1	2.51	0.41
2:H:1102:LEU:N	2:H:1102:LEU:HD12	2.35	0.41
3:D:436:GLU:OE1	3:D:447:VAL:HG13	2.20	0.41
2:C:69:LEU:CD1	2:C:109:LYS:HE3	2.51	0.41
3:I:148:GLU:HB3	3:I:151:GLN:HB2	2.03	0.41
3:I:97:THR:HG23	3:I:98:PRO:HD2	2.03	0.41
3:I:805:GLU:OE1	3:I:816:HIS:NE2	2.54	0.41
3:I:1264:GLU:HB3	3:I:1266:ARG:NE	2.36	0.41
1:B:84:GLU:HB3	1:B:127:LEU:HD21	2.02	0.41
3:D:638:LYS:O	3:D:640:HIS:N	2.54	0.41
2:M:194:VAL:O	2:M:195:LEU:C	2.59	0.41
2:M:148:PHE:CE1	2:M:309:TYR:HD2	2.37	0.41
3:D:116:LEU:O	3:D:117:ASP:CB	2.69	0.41
2:M:267:TYR:HB2	2:M:272:ALA:HB2	1.91	0.41
4:E:53:GLY:C	4:E:55:PHE:H	2.24	0.41
2:C:203:ASP:O	2:C:204:GLN:C	2.59	0.41
2:C:224:GLU:O	2:C:228:ALA:CB	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:121:GLU:OE2	1:G:123:MET:SD	2.79	0.41
2:C:691:SER:HB2	2:C:858:MET:SD	2.60	0.41
3:I:101:HIS:CE1	3:I:103:TRP:HB2	2.52	0.41
3:I:1236:LEU:HB2	3:I:1256:LEU:HB2	2.03	0.41
2:M:940:GLU:O	2:M:943:VAL:CG1	2.65	0.41
3:N:1287:GLU:O	3:N:1288:GLU:C	2.59	0.41
3:I:17:LYS:HA	3:I:20:SER:HB2	2.02	0.41
3:I:17:LYS:O	3:I:20:SER:CB	2.65	0.41
3:I:1135:ARG:CD	3:I:1139:ASP:CB	2.97	0.41
2:H:347:GLY:CA	2:H:378:LEU:HD12	2.38	0.41
4:J:45:ARG:NH2	4:J:55:PHE:O	2.54	0.41
3:I:716:PHE:CD1	3:I:716:PHE:N	2.89	0.41
1:A:132:LEU:CD2	1:A:136:GLY:O	2.65	0.41
2:H:198:ARG:NH1	2:H:204:GLN:OE1	2.54	0.41
3:I:1325:LEU:HD12	3:I:1325:LEU:HA	1.85	0.41
7:Y:123:SER:O	7:Y:126:GLY:N	2.54	0.41
2:H:551:GLU:OE1	2:H:905:ILE:O	2.38	0.41
2:H:583:LEU:HD12	2:H:583:LEU:N	2.36	0.41
2:H:502:PRO:O	2:H:509:ALA:HB3	2.20	0.41
2:C:854:PRO:C	2:C:856:GLU:N	2.74	0.41
3:I:484:PRO:HB3	3:I:488:ARG:CZ	2.50	0.41
3:N:765:SER:O	3:N:767:HIS:N	2.53	0.41
3:N:701:LEU:O	3:N:702:LEU:HD12	2.21	0.41
3:N:351:MET:O	3:N:352:ASN:OD1	2.39	0.41
2:C:511:GLU:O	2:C:526:PRO:HD3	2.21	0.41
2:C:397:GLU:HG2	2:C:403:SER:HB3	2.03	0.41
1:F:58:ILE:HG21	1:F:61:VAL:CG2	2.50	0.41
1:L:142:VAL:O	1:L:142:VAL:HG23	2.21	0.41
2:M:657:ASP:OD1	2:M:662:GLU:HA	2.21	0.41
3:I:37:LEU:HD23	3:I:37:LEU:HA	1.90	0.41
2:M:843:HIS:CD2	2:M:884:GLN:N	2.89	0.41
2:M:449:ILE:C	2:M:451:LEU:H	2.24	0.41
3:I:465:LEU:CD1	3:I:512:MET:HB2	2.46	0.41
2:H:449:ILE:C	2:H:451:LEU:H	2.24	0.41
3:N:616:GLN:HE21	3:N:616:GLN:HB2	1.70	0.41
3:D:583:ASP:CG	3:D:586:ARG:HG2	2.40	0.41
1:L:73:GLU:HB2	1:L:78:ILE:HG13	2.03	0.41
3:I:919:PHE:CE1	3:I:924:MET:HG3	2.43	0.41
2:M:524:VAL:HG13	2:M:528:GLU:OE1	2.21	0.41
3:D:1080:GLY:C	7:X:49:GLU:HG3	2.41	0.41
1:F:171:PHE:O	1:F:173:PRO:CD	2.68	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:701:LEU:HD11	3:D:750:PRO:CG	2.49	0.41
2:M:1090:LYS:HA	2:M:1090:LYS:HD3	1.90	0.41
3:D:130:SER:O	3:D:568:ARG:NH2	2.47	0.41
1:F:122:ILE:N	1:F:122:ILE:CD1	2.80	0.41
2:M:793:PRO:O	2:M:794:PRO:C	2.58	0.41
3:D:660:LYS:HZ1	3:D:663:GLU:HG3	1.85	0.41
1:A:14:ARG:HH22	1:A:24:VAL:CG2	2.33	0.41
3:N:1156:LEU:CD1	3:N:1176:LYS:HE3	2.49	0.41
2:M:537:LYS:CA	2:M:545:ASN:HD21	2.31	0.41
1:F:165:ILE:HA	1:F:166:PRO:HD3	1.77	0.41
3:I:1336:LEU:HA	3:I:1344:VAL:HG21	2.03	0.41
1:B:198:ARG:H	1:B:198:ARG:HG2	1.50	0.41
2:M:480:THR:HG22	2:M:481:ASP:N	2.32	0.41
3:N:975:GLU:O	3:N:979:GLU:HG3	2.20	0.41
7:Y:141:ASP:OD2	7:Y:145:GLY:O	2.37	0.41
2:C:13:ILE:HA	2:C:14:PRO:HD3	1.93	0.41
2:C:806:LEU:HD12	2:C:822:VAL:CG2	2.50	0.41
3:N:1432:LYS:CG	3:N:1432:LYS:O	2.67	0.41
3:I:885:ILE:CD1	3:I:937:TYR:CD2	3.03	0.41
3:I:1304:LYS:HB3	3:I:1304:LYS:HE2	1.87	0.41
2:C:775:ARG:O	2:C:779:GLY:C	2.59	0.41
7:Y:20:GLU:OE1	7:Y:23:ARG:HD2	2.21	0.41
2:C:604:ALA:HB3	2:C:612:VAL:O	2.21	0.41
3:N:592:THR:O	3:N:593:ASN:C	2.58	0.41
1:B:143:ARG:HH11	1:B:158:ILE:HG23	1.86	0.41
1:G:70:GLY:O	1:G:132:LEU:HA	2.20	0.41
2:H:1044:GLY:HA2	3:I:1475:GLY:CA	2.50	0.41
3:I:762:GLN:H	3:I:762:GLN:HG2	1.68	0.41
7:Y:150:ARG:NH1	7:Y:152:VAL:HG22	2.35	0.41
2:H:15:LEU:HD12	2:H:15:LEU:H	1.86	0.41
3:I:446:VAL:CG2	3:I:446:VAL:O	2.69	0.41
2:C:83:CYS:HB3	2:C:88:LEU:O	2.20	0.41
3:I:586:ARG:HD3	3:I:586:ARG:HA	1.82	0.41
3:D:1310:ARG:HD3	3:D:1310:ARG:HA	1.68	0.41
2:C:706:GLU:HA	2:C:706:GLU:OE2	2.20	0.41
3:N:1464:GLU:H	3:N:1464:GLU:HG2	1.55	0.41
2:M:963:LEU:HD21	2:M:973:VAL:HG23	2.03	0.41
2:H:702:SER:OG	2:H:704:HIS:ND1	2.53	0.41
1:B:51:THR:HG22	1:B:89:PHE:CE2	2.55	0.41
4:E:57:ASP:O	4:E:57:ASP:OD1	2.39	0.41
3:N:805:GLU:H	3:N:805:GLU:HG2	1.59	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:751:PRO:HA	2:H:792:VAL:CG1	2.51	0.41
4:J:17:TYR:O	4:J:21:VAL:HG23	2.21	0.41
3:D:521:PRO:C	3:D:525:ARG:NH1	2.74	0.41
3:N:153:LEU:HD12	3:N:153:LEU:O	2.20	0.41
3:N:97:THR:HA	3:N:98:PRO:HD3	1.88	0.41
2:C:278:GLU:HA	2:C:283:ILE:HA	2.03	0.41
4:O:40:LEU:HD12	4:O:40:LEU:C	2.42	0.41
2:H:682:TYR:CE1	3:I:635:PRO:HD2	2.56	0.41
3:I:939:PHE:O	3:I:942:SER:HB3	2.21	0.41
3:D:835:SER:N	3:D:838:ARG:HD3	2.35	0.41
2:H:1083:GLU:O	2:H:1087:VAL:HB	2.21	0.41
2:C:886:LEU:O	2:C:887:GLU:C	2.58	0.41
2:H:36:PRO:HG2	2:H:70:GLU:HB3	2.03	0.41
1:G:77:GLU:HB2	3:I:872:ARG:HH21	1.86	0.41
2:C:112:GLU:CA	2:C:112:GLU:OE1	2.67	0.41
2:H:604:ALA:HB3	2:H:612:VAL:O	2.21	0.41
2:M:263:ASP:C	2:M:264:PRO:O	2.57	0.41
2:M:606:VAL:CG2	2:M:645:VAL:HA	2.51	0.41
2:C:172:ILE:HG22	2:C:173:ASP:N	2.35	0.41
2:M:327:HIS:C	2:M:329:GLY:N	2.74	0.41
3:D:899:LEU:HD12	3:D:900:ILE:CG2	2.37	0.41
3:I:1124:GLN:HA	3:I:1125:PRO:HD3	1.92	0.41
3:D:614:PHE:CD2	3:D:1438:ALA:HB1	2.55	0.41
4:E:70:THR:HB	4:E:72:ARG:CD	2.36	0.41
3:I:705:ALA:HB3	3:I:706:PRO:CD	2.40	0.41
3:I:749:VAL:HA	3:I:750:PRO:HD3	1.76	0.41
3:N:116:LEU:HD23	3:N:116:LEU:C	2.41	0.41
1:A:91:ASN:HD22	1:A:93:SER:CB	2.34	0.41
3:N:649:ALA:O	3:N:650:LEU:C	2.59	0.41
2:H:118:ILE:HA	2:H:119:PRO:HD3	1.82	0.41
2:H:119:PRO:HG2	2:H:386:PHE:CG	2.56	0.41
2:H:979:THR:HG23	2:H:981:GLU:N	2.23	0.41
3:N:1422:MET:CE	3:N:1426:LYS:O	2.69	0.41
2:M:737:LEU:CD2	2:M:737:LEU:O	2.68	0.41
3:I:1235:GLN:HE21	7:Y:37:MET:HE3	1.86	0.41
2:C:30:LEU:CD1	2:C:30:LEU:O	2.62	0.41
3:I:36:THR:C	3:I:38:LYS:N	2.74	0.41
2:M:557:ARG:HE	2:M:879:ARG:HD3	1.86	0.41
1:F:128:HIS:NE2	1:F:131:THR:HG23	2.36	0.41
2:H:73:LEU:CD1	2:H:73:LEU:C	2.85	0.41
3:D:845:ASN:N	3:D:848:GLU:HG3	2.31	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:47:ALA:CB	2:C:345:ARG:HD2	2.51	0.41
1:K:142:VAL:O	1:K:142:VAL:CG2	2.69	0.41
1:B:115:LEU:HA	1:B:116:PRO:HD3	1.86	0.41
3:N:456:MET:HA	3:N:460:ALA:HB2	2.03	0.41
1:G:16:GLN:CA	1:G:16:GLN:NE2	2.82	0.41
7:Y:44:ASP:OD1	7:Y:44:ASP:N	2.54	0.41
3:D:1386:ASP:C	3:D:1386:ASP:OD1	2.59	0.41
3:D:1265:ALA:HB1	3:D:1333:HIS:CE1	2.56	0.41
2:H:182:VAL:O	2:H:193:LEU:CD1	2.60	0.40
2:H:221:LEU:O	2:H:223:ASP:N	2.54	0.40
2:H:144:PRO:O	2:H:276:LYS:HD3	2.21	0.40
2:H:304:LEU:H	2:H:304:LEU:HD23	1.86	0.40
3:D:814:ALA:CB	3:D:818:ARG:HH21	2.24	0.40
2:C:1041:GLU:O	2:C:1042:ALA:C	2.59	0.40
3:D:1100:ASP:C	3:D:1103:HIS:HD1	2.23	0.40
3:D:549:ASN:HA	3:D:549:ASN:HD22	1.62	0.40
1:A:42:ARG:NH2	1:B:31:GLY:O	2.54	0.40
2:C:334:ARG:HA	2:C:338:GLU:OE2	2.20	0.40
2:C:430:VAL:HA	2:C:434:HIS:CE1	2.56	0.40
4:O:41:GLU:HA	4:O:45:ARG:HG3	2.03	0.40
3:N:1393:GLN:HB2	3:N:1398:TRP:CZ2	2.55	0.40
3:N:835:SER:O	3:N:836:VAL:C	2.59	0.40
2:H:881:ASN:O	2:H:884:GLN:HG3	2.22	0.40
3:D:158:TYR:O	3:D:162:ARG:N	2.47	0.40
3:D:807:ALA:HA	3:D:833:GLU:CG	2.48	0.40
3:D:820:GLU:CB	3:D:836:VAL:HG21	2.51	0.40
3:D:860:LEU:CB	3:D:861:GLN:HE21	2.35	0.40
2:M:56:GLU:O	2:M:64:LEU:N	2.55	0.40
3:D:727:GLN:HB3	3:D:727:GLN:HE21	1.62	0.40
3:I:1262:LEU:HD21	3:I:1351:GLU:HG3	2.03	0.40
3:D:927:THR:O	3:D:928:ALA:C	2.60	0.40
3:I:1112:CYS:HB2	3:I:1195:GLN:CD	2.42	0.40
3:N:957:PRO:HG2	3:N:1007:VAL:CG2	2.49	0.40
3:D:695:ILE:CD1	3:D:718:PRO:HB2	2.50	0.40
3:D:105:VAL:O	3:D:105:VAL:HG12	2.21	0.40
1:B:185:ARG:HH11	3:D:692:GLU:HB3	1.87	0.40
2:H:739:GLU:O	2:H:741:GLY:N	2.54	0.40
2:H:496:ILE:CG2	2:H:497:ALA:N	2.84	0.40
1:A:222:LEU:HD21	1:B:218:LEU:HD23	2.04	0.40
3:N:890:VAL:HG12	3:N:926:LYS:HE2	2.03	0.40
2:H:501:THR:HG22	2:H:513:VAL:HG13	2.02	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1147:ARG:NH1	3:N:1190:SER:HB2	2.36	0.40
2:H:937:ASP:HB3	2:H:940:GLU:H	1.86	0.40
2:H:838:LYS:O	2:H:997:LEU:HD23	2.21	0.40
3:N:1428:ALA:O	3:N:1429:LEU:C	2.60	0.40
3:N:765:SER:C	3:N:767:HIS:N	2.75	0.40
3:D:1261:GLU:O	3:D:1264:GLU:O	2.39	0.40
2:H:899:GLN:HG3	2:H:901:TYR:OH	2.21	0.40
2:C:327:HIS:O	2:C:329:GLY:N	2.54	0.40
3:D:1231:GLU:CB	3:D:1232:PRO:CD	2.99	0.40
3:N:104:PHE:HB3	3:N:512:MET:SD	2.61	0.40
3:I:502:PHE:CE1	3:I:509:PRO:HB3	2.56	0.40
2:M:339:LEU:HD22	2:M:385:PHE:CZ	2.56	0.40
2:M:684:PHE:HB3	3:N:633:VAL:HG21	2.03	0.40
2:C:584:GLU:H	2:C:584:GLU:CD	2.22	0.40
3:I:1168:MET:HE3	3:I:1168:MET:HA	2.04	0.40
2:M:284:ARG:HB3	2:M:301:GLU:OE2	2.22	0.40
2:C:78:PHE:HB3	2:C:79:PRO:CD	2.50	0.40
3:D:1488:ASP:C	3:D:1490:LYS:N	2.75	0.40
4:O:63:TRP:O	4:O:64:ALA:C	2.59	0.40
7:Z:14:ARG:HH11	7:Z:14:ARG:CB	2.32	0.40
2:M:544:THR:C	2:M:546:LEU:N	2.73	0.40
2:C:458:TYR:HB3	2:C:470:PRO:HG3	2.02	0.40
2:C:627:ARG:O	2:C:638:ASP:CB	2.70	0.40
2:M:214:TYR:CD1	2:M:214:TYR:C	2.94	0.40
4:E:40:LEU:C	4:E:40:LEU:HD12	2.40	0.40
3:D:730:PRO:HA	3:D:733:CYS:SG	2.61	0.40
3:I:469:ASP:O	3:I:472:ALA:HB3	2.21	0.40
2:M:424:GLY:O	2:M:425:PHE:C	2.59	0.40
3:D:1258:ARG:NH2	3:D:1262:LEU:HD11	2.36	0.40
3:N:355:VAL:HG11	3:N:385:VAL:CG2	2.51	0.40
1:F:38:ASN:N	1:F:39:PRO:CD	2.84	0.40
2:H:950:LEU:CB	2:H:952:LEU:HD23	2.37	0.40
2:C:1019:GLN:HG3	3:D:621:LYS:HD2	2.04	0.40
1:K:90:LEU:H	1:K:94:LEU:HD12	1.86	0.40
3:N:1230:GLY:O	3:N:1231:GLU:C	2.58	0.40
2:C:139:GLN:OE1	2:C:334:ARG:HD3	2.21	0.40
2:C:1005:MET:CE	3:D:724:GLN:HB3	2.50	0.40
3:N:117:ASP:HB2	3:N:495:ARG:NH1	2.36	0.40
3:N:477:LEU:HD11	3:N:495:ARG:HG2	2.03	0.40
3:N:496:LEU:O	3:N:496:LEU:HD12	2.21	0.40
3:I:632:VAL:HG23	3:I:725:SER:HB2	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:355:VAL:HG13	3:D:359:ALA:HB3	2.02	0.40
3:D:355:VAL:CG1	3:D:359:ALA:HB3	2.51	0.40
2:M:981:GLU:CG	2:M:982:PRO:HD2	2.48	0.40
2:C:961:GLU:O	2:C:964:LYS:HB3	2.20	0.40
2:M:206:THR:CG2	2:M:207:LEU:H	2.34	0.40
2:M:195:LEU:CD2	2:M:238:LEU:HG	2.51	0.40
2:M:193:LEU:HD23	2:M:307:LEU:HD11	2.03	0.40
2:M:985:GLY:HA2	2:M:986:PRO:HD3	1.93	0.40
2:H:661:SER:HA	2:H:665:PHE:O	2.21	0.40
3:I:970:LYS:NZ	7:Y:113:LEU:HA	2.37	0.40
1:F:19:GLU:O	1:F:207:PRO:HG3	2.20	0.40
3:I:699:VAL:HG22	3:I:756:GLN:HE22	1.86	0.40
3:I:688:TRP:CE3	3:I:688:TRP:CA	3.02	0.40
1:K:85:LEU:HD12	1:K:86:VAL:N	2.37	0.40
2:M:162:ILE:HG22	2:M:162:ILE:O	2.20	0.40
3:D:655:PRO:HA	3:D:658:LEU:HD12	2.03	0.40
3:D:1231:GLU:HG2	3:D:1232:PRO:N	2.35	0.40
3:I:687:VAL:O	3:I:690:ALA:N	2.55	0.40
3:N:584:ASN:CG	3:N:590:PRO:HD2	2.40	0.40
3:I:511:TRP:C	3:I:513:ILE:N	2.75	0.40
3:I:778:LEU:HA	3:I:778:LEU:HD12	1.89	0.40
3:I:12:LEU:CD1	3:I:12:LEU:H	2.30	0.40
7:X:6:LYS:CB	7:X:85:LEU:HD12	2.49	0.40
3:D:1403:LEU:HD22	3:D:1407:LEU:HD22	2.03	0.40
2:C:449:ILE:O	2:C:451:LEU:N	2.54	0.40
7:X:5:VAL:HG12	7:X:72:ALA:CB	2.51	0.40
3:I:1487:VAL:CG2	4:J:79:LEU:HD23	2.51	0.40
1:F:211:LEU:HD12	1:F:211:LEU:O	2.21	0.40
3:I:427:VAL:O	3:I:427:VAL:HG12	2.20	0.40
1:B:138:LEU:O	1:B:138:LEU:HD23	2.21	0.40
3:I:1440:PHE:HD2	3:I:1441:GLN:H	1.69	0.40
2:M:390:GLN:HG3	2:M:390:GLN:H	1.60	0.40
2:M:246:ASP:HB3	2:M:247:PRO:CD	2.51	0.40
3:I:680:GLN:HA	3:I:683:ILE:HD11	2.03	0.40
2:H:19:THR:HG22	2:H:23:VAL:HG23	2.04	0.40
7:Z:123:SER:O	7:Z:126:GLY:N	2.54	0.40
3:N:181:ASP:CB	3:N:205:TYR:HB3	2.51	0.40
1:F:31:GLY:O	1:F:35:THR:OG1	2.38	0.40
2:H:860:HIS:HD2	2:H:861:LEU:O	2.04	0.40
3:I:87:ARG:HB3	3:I:523:ASP:CB	2.33	0.40
3:D:368:VAL:H	3:D:377:VAL:HB	1.85	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:128:TYR:HA	3:I:128:TYR:HD2	1.53	0.40
2:M:1058:ASP:OD2	2:M:1083:GLU:HB2	2.20	0.40
3:I:995:LEU:O	3:I:999:THR:HB	2.20	0.40
3:N:1352:ILE:O	3:N:1353:GLN:C	2.57	0.40
3:I:1262:LEU:HD21	3:I:1351:GLU:CG	2.51	0.40
1:B:175:ARG:NH1	1:B:202:ASP:HB3	2.36	0.40
2:M:241:LEU:O	2:M:242:LEU:C	2.59	0.40
3:N:1055:VAL:HA	3:N:1056:PRO:HD3	1.77	0.40
1:L:219:ARG:HA	1:L:222:LEU:HD12	2.02	0.40
2:M:1099:VAL:HG22	3:N:10:ILE:CG1	2.51	0.40
2:C:1104:GLU:HB2	2:C:1105:LYS:H	1.75	0.40
2:C:182:VAL:C	2:C:193:LEU:CD1	2.89	0.40
3:D:952:ASP:HA	3:D:1062:ARG:HH11	1.87	0.40
3:I:1425:THR:HG22	3:I:1426:LYS:N	2.36	0.40
7:X:102:VAL:HG22	7:X:117:MET:HB2	2.03	0.40
1:A:92:PRO:C	1:A:94:LEU:N	2.74	0.40
2:H:579:VAL:O	2:H:579:VAL:HG13	2.21	0.40
3:N:926:LYS:O	3:N:929:ARG:HB2	2.22	0.40
2:M:739:GLU:O	2:M:741:GLY:N	2.53	0.40
2:M:710:ILE:CG2	2:M:756:VAL:HG11	2.45	0.40
3:D:688:TRP:HA	3:D:688:TRP:CE3	2.57	0.40
3:I:1108:ARG:HG3	3:I:1108:ARG:HH11	1.86	0.40
3:I:881:LEU:O	3:I:884:ARG:HB3	2.22	0.40
3:D:986:ARG:O	3:D:989:TYR:HB3	2.21	0.40
2:M:557:ARG:HH11	2:M:560:MET:HG3	1.87	0.40
1:F:90:LEU:H	1:F:94:LEU:HD12	1.86	0.40
3:D:102:ILE:C	3:D:102:ILE:HD13	2.42	0.40
3:D:102:ILE:CD1	3:D:586:ARG:HG3	2.51	0.40
2:C:90:TYR:HD1	2:C:120:LEU:HB2	1.83	0.40
2:H:754:ILE:CG1	2:H:791:ARG:NH1	2.84	0.40
1:B:161:ARG:NH1	1:B:161:ARG:HG3	2.37	0.40
7:Y:133:ARG:O	7:Y:134:VAL:C	2.59	0.40
1:G:206:THR:HG23	1:G:208:LEU:N	2.36	0.40
2:M:458:TYR:HB3	2:M:470:PRO:HG3	2.02	0.40
1:A:99:LEU:N	1:A:99:LEU:HD12	2.37	0.40
2:M:806:LEU:HD12	2:M:822:VAL:HG21	2.02	0.40
1:L:50:GLY:O	1:L:146:ARG:HA	2.22	0.40
3:I:638:LYS:C	3:I:640:HIS:H	2.25	0.40
2:H:363:SER:HB2	2:H:364:GLU:H	1.66	0.40
3:N:891:GLU:OE2	3:N:891:GLU:O	2.40	0.40
2:C:340:MET:C	2:C:340:MET:SD	3.00	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:411:SER:HA	2:M:452:ILE:HG12	2.03	0.40
2:H:165:LEU:CD1	2:H:166:PRO:HA	2.51	0.40
2:C:987:ILE:HD12	3:D:948:THR:HG23	2.02	0.40
3:N:358:GLY:HA2	3:N:385:VAL:HB	2.02	0.40
2:C:1083:GLU:OE1	2:C:1086:ARG:NE	2.54	0.40
3:I:793:THR:O	3:I:879:ARG:NH1	2.54	0.40
1:L:62:LEU:H	1:L:62:LEU:HG	1.57	0.40
3:N:165:LYS:HZ3	3:N:199:LEU:CD1	2.34	0.40
2:H:1084:SER:C	2:H:1087:VAL:HG12	2.41	0.40
3:N:206:ARG:CB	3:N:392:SER:H	2.35	0.40
3:D:703:ASN:HD22	3:D:704:ARG:H	1.69	0.40
1:G:76:VAL:O	1:G:79:ILE:CG1	2.70	0.40
2:C:52:PHE:O	2:C:54:ILE:N	2.54	0.40
1:B:84:GLU:HG2	1:B:127:LEU:CD1	2.45	0.40
3:D:767:HIS:CE1	4:E:2:ALA:HB1	2.56	0.40
2:M:222:MET:HE3	2:M:222:MET:HB2	1.89	0.40
1:G:121:GLU:HG2	1:G:122:ILE:N	2.36	0.40
3:D:1327:ARG:HG3	3:D:1328:GLY:N	2.36	0.40
2:H:455:LEU:HD12	2:H:456:ALA:N	2.37	0.40
2:H:328:LEU:HB2	2:H:433:THR:HG21	2.03	0.40
3:I:167:GLU:OE2	3:I:169:TYR:CE1	2.64	0.40
3:N:1282:ARG:C	3:N:1283:ILE:HD13	2.42	0.40
3:I:704:ARG:HA	3:I:745:MET:HG2	2.03	0.40
3:D:26:VAL:CG2	3:D:26:VAL:O	2.67	0.40
2:M:855:VAL:CG1	2:M:856:GLU:N	2.83	0.40
1:F:101:LEU:HD11	1:F:113:ASP:HB2	2.03	0.40
3:N:1217:ILE:HB	3:N:1480:PHE:HD2	1.85	0.40
3:D:1026:SER:O	3:D:1028:ALA:N	2.54	0.40
2:H:766:GLU:OE1	3:I:37:LEU:HD23	2.21	0.40
3:D:996:TRP:O	3:D:998:GLU:N	2.55	0.40
2:H:26:TYR:HA	2:H:29:ALA:HB3	2.03	0.40
2:H:336:VAL:O	2:H:339:LEU:N	2.54	0.40
3:D:1155:VAL:HG13	3:D:1183:ILE:HG13	2.03	0.40
7:Z:139:SER:OG	7:Z:148:GLU:CG	2.69	0.40
3:D:1488:ASP:N	3:D:1488:ASP:OD1	2.54	0.40
3:I:1488:ASP:C	3:I:1490:LYS:N	2.75	0.40
2:M:555:ALA:HA	3:N:1070:TYR:OH	2.22	0.40
1:B:50:GLY:O	1:B:146:ARG:HA	2.21	0.40
2:H:673:LEU:HD23	2:H:674:VAL:N	2.36	0.40
3:N:546:ARG:HG2	3:N:546:ARG:HH11	1.86	0.40
3:N:1314:LYS:HG2	3:N:1314:LYS:H	1.71	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:360:LEU:C	2:M:362:GLY:H	2.23	0.40
3:N:464:LEU:O	3:N:468:LEU:HG	2.22	0.40
4:O:82:GLU:N	4:O:82:GLU:OE1	2.42	0.40
2:M:749:VAL:HG23	2:M:749:VAL:O	2.21	0.40
3:D:420:VAL:HG13	3:D:424:GLY:O	2.21	0.40
2:H:175:GLU:O	2:H:183:SER:N	2.46	0.40
2:H:176:VAL:HG23	2:H:176:VAL:O	2.22	0.40
2:H:196:LEU:HD22	2:H:303:PHE:CE2	2.57	0.40
2:C:682:TYR:O	2:C:687:ALA:HB1	2.21	0.40
2:C:884:GLN:HB2	2:C:992:MET:CE	2.51	0.40
3:D:1057:VAL:HA	3:D:1069:GLU:HG2	2.03	0.40
7:Z:124:PRO:HB2	7:Z:125:MET:H	1.70	0.40
3:D:1209:LEU:HD23	3:D:1210:SER:N	2.36	0.40
2:C:1053:LEU:HD23	2:C:1053:LEU:N	2.36	0.40
1:K:89:PHE:HZ	1:K:144:VAL:HG12	1.86	0.40
2:C:270:GLY:C	2:C:274:ARG:HD3	2.40	0.40
2:C:282:GLY:O	2:C:283:ILE:HG12	2.21	0.40
2:M:1046:ALA:HA	3:N:1472:ILE:CD1	2.39	0.40
2:H:1081:VAL:HA	2:H:1082:PRO:HD3	1.99	0.40
1:G:74:ASP:O	1:G:75:VAL:C	2.60	0.40
2:M:860:HIS:HD2	2:M:861:LEU:O	2.04	0.40
3:D:765:SER:O	3:D:767:HIS:N	2.55	0.40
3:D:638:LYS:HA	3:D:932:ASP:OD1	2.22	0.40
3:I:563:PRO:O	3:I:566:ILE:HD13	2.20	0.40
2:M:305:PRO:HA	2:M:308:ARG:HB3	1.99	0.40
2:C:226:VAL:HG13	2:C:227:PHE:N	2.37	0.40
1:A:150:TYR:CE2	1:A:152:PRO:HG3	2.57	0.40
2:H:654:LEU:HD13	2:H:663:ASN:C	2.41	0.40
3:N:949:ILE:CG2	3:N:950:GLY:N	2.83	0.40
2:H:642:ARG:HA	2:H:642:ARG:HD3	1.81	0.40
3:I:1434:TRP:NE1	3:I:1435:LEU:CD1	2.85	0.40
2:M:239:PHE:CZ	2:M:252:LYS:CB	3.05	0.40
7:X:119:ILE:HG22	7:X:123:SER:HB3	2.03	0.40
2:H:976:ASP:CG	2:H:979:THR:HG22	2.42	0.40
3:I:1235:GLN:HB2	7:Y:37:MET:CE	2.51	0.40
1:A:41:ARG:HA	1:A:44:LEU:HD12	2.04	0.40
2:M:984:GLU:HG3	2:M:984:GLU:O	2.21	0.40
2:M:650:ARG:CG	2:M:653:ASP:HB2	2.52	0.40
1:K:165:ILE:HD13	1:K:165:ILE:N	2.27	0.40
1:L:81:ASN:HD22	1:L:129:ILE:HD13	1.87	0.40
3:N:988:ARG:HD2	3:N:989:TYR:N	2.37	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:460:ARG:HG3	2:C:460:ARG:NH1	2.33	0.40
3:D:1108:ARG:O	3:D:1108:ARG:HG2	2.22	0.40
2:H:806:LEU:HD12	2:H:822:VAL:HG21	2.04	0.40
2:M:1102:LEU:N	2:M:1102:LEU:HD12	2.36	0.40
7:Y:144:LYS:HG3	7:Y:145:GLY:N	2.34	0.40
2:H:171:TRP:HH2	2:H:417:GLY:O	2.02	0.40
1:A:99:LEU:HB3	1:A:114:PHE:CD2	2.56	0.40
1:F:211:LEU:O	1:F:215:VAL:HG23	2.22	0.40
3:I:150:ARG:HD2	3:I:464:LEU:HD22	2.03	0.40
3:I:918:ALA:HB3	3:I:927:THR:HG23	2.03	0.40
3:N:65:ARG:HA	3:N:65:ARG:HD2	1.82	0.40
2:C:18:LEU:H	2:C:18:LEU:HD12	1.87	0.40
7:Z:78:GLY:O	7:Z:156:GLY:OXT	2.39	0.40
3:N:469:ASP:O	3:N:472:ALA:HB3	2.22	0.40
3:D:914:LEU:CD2	3:D:914:LEU:C	2.90	0.40
3:I:440:VAL:O	3:I:440:VAL:HG12	2.22	0.40
3:N:968:ASP:O	3:N:971:LEU:HB3	2.22	0.40
2:C:15:LEU:O	2:C:586:ARG:NH2	2.45	0.40

All (3) symmetry-related close contacts are listed below. The label for Atom-2 includes the symmetry operator and encoded unit-cell translations to be applied.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:223:ASP:O	3:N:562:ALA:O[2_647]	1.66	0.54
3:D:562:ALA:O	2:H:223:ASP:O[2_646]	2.02	0.18
3:D:159:ARG:O	2:H:209:ARG:NH1[2_646]	2.15	0.05

5.3 Torsion angles [i](#)

5.3.1 Protein backbone [i](#)

In the following table, the Percentiles column shows the percent Ramachandran outliers of the chain as a percentile score with respect to all X-ray entries followed by that with respect to entries of similar resolution.

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
1	A	221/315 (70%)	181 (82%)	33 (15%)	7 (3%)	5 43

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	B	221/315 (70%)	188 (85%)	28 (13%)	5 (2%)	8	50
1	F	220/315 (70%)	182 (83%)	32 (14%)	6 (3%)	6	47
1	G	221/315 (70%)	190 (86%)	27 (12%)	4 (2%)	11	55
1	K	220/315 (70%)	183 (83%)	29 (13%)	8 (4%)	4	41
1	L	221/315 (70%)	189 (86%)	26 (12%)	6 (3%)	6	47
2	C	1102/1119 (98%)	873 (79%)	169 (15%)	60 (5%)	2	30
2	H	1099/1119 (98%)	882 (80%)	157 (14%)	60 (6%)	2	30
2	M	1101/1119 (98%)	892 (81%)	150 (14%)	59 (5%)	2	30
3	D	1341/1524 (88%)	1055 (79%)	221 (16%)	65 (5%)	3	32
3	I	1281/1524 (84%)	1006 (78%)	216 (17%)	59 (5%)	3	33
3	N	1343/1524 (88%)	1068 (80%)	211 (16%)	64 (5%)	3	32
4	E	91/99 (92%)	71 (78%)	15 (16%)	5 (6%)	2	30
4	J	90/99 (91%)	71 (79%)	14 (16%)	5 (6%)	2	29
4	O	91/99 (92%)	70 (77%)	16 (18%)	5 (6%)	2	30
7	X	150/156 (96%)	119 (79%)	26 (17%)	5 (3%)	5	43
7	Y	150/156 (96%)	121 (81%)	26 (17%)	3 (2%)	9	54
7	Z	150/156 (96%)	123 (82%)	21 (14%)	6 (4%)	4	37
All	All	9313/10584 (88%)	7464 (80%)	1417 (15%)	432 (5%)	3	33

All (432) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	133	GLU
1	A	226	SER
2	C	44	ILE
2	C	80	GLN
2	C	152	PRO
2	C	231	PRO
2	C	249	LYS
2	C	251	ASP
2	C	368	THR
2	C	545	ASN
2	C	684	PHE
2	C	762	LYS
2	C	763	GLY
2	C	809	GLY

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Mol	Chain	Res	Type
2	C	864	GLY
2	C	905	ILE
2	C	1033	GLY
2	C	1096	ALA
2	C	1106	ASP
3	D	40	GLU
3	D	96	ALA
3	D	665	GLY
3	D	696	HIS
3	D	1028	ALA
3	D	1125	PRO
3	D	1441	GLN
3	D	1452	ILE
3	D	1489	GLN
4	E	52	GLU
4	E	58	PRO
4	E	82	GLU
2	H	152	PRO
2	H	164	PRO
2	H	250	ARG
2	H	251	ASP
2	H	545	ASN
2	H	684	PHE
2	H	740	GLU
2	H	762	LYS
2	H	809	GLY
2	H	864	GLY
2	H	1033	GLY
2	H	1096	ALA
2	H	1106	ASP
3	I	40	GLU
3	I	96	ALA
3	I	665	GLY
3	I	696	HIS
3	I	737	ASN
3	I	1028	ALA
3	I	1125	PRO
3	I	1286	THR
3	I	1452	ILE
3	I	1489	GLN
4	J	52	GLU
4	J	58	PRO

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Mol	Chain	Res	Type
4	J	82	GLU
1	K	133	GLU
1	K	226	SER
2	M	80	GLN
2	M	152	PRO
2	M	251	ASP
2	M	545	ASN
2	M	684	PHE
2	M	762	LYS
2	M	809	GLY
2	M	864	GLY
2	M	1033	GLY
2	M	1096	ALA
2	M	1106	ASP
3	N	40	GLU
3	N	96	ALA
3	N	377	VAL
3	N	381	ALA
3	N	665	GLY
3	N	696	HIS
3	N	1028	ALA
3	N	1125	PRO
3	N	1286	THR
3	N	1452	ILE
3	N	1489	GLN
4	O	42	PRO
4	O	52	GLU
4	O	58	PRO
4	O	82	GLU
7	X	44	ASP
7	Z	44	ASP
1	B	187	GLY
2	C	23	VAL
2	C	31	GLN
2	C	40	GLU
2	C	156	GLY
2	C	164	PRO
2	C	207	LEU
2	C	268	ASP
2	C	274	ARG
2	C	282	GLY
2	C	283	ILE

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Mol	Chain	Res	Type
2	C	290	LEU
2	C	301	GLU
2	C	369	PRO
2	C	381	ALA
2	C	740	GLU
2	C	808	ARG
2	C	908	GLY
2	C	1097	LEU
3	D	31	THR
3	D	119	SER
3	D	377	VAL
3	D	735	ALA
3	D	737	ASN
3	D	808	THR
3	D	989	TYR
3	D	1111	ASP
3	D	1211	MET
3	D	1254	GLN
3	D	1315	ASP
3	D	1338	ALA
3	D	1410	GLU
3	D	1454	GLY
1	F	133	GLU
1	G	187	GLY
2	H	23	VAL
2	H	31	GLN
2	H	40	GLU
2	H	44	ILE
2	H	80	GLN
2	H	111	ASP
2	H	129	ILE
2	H	156	GLY
2	H	207	LEU
2	H	231	PRO
2	H	278	GLU
2	H	282	GLY
2	H	283	ILE
2	H	290	LEU
2	H	368	THR
2	H	369	PRO
2	H	908	GLY
3	I	31	THR

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Mol	Chain	Res	Type
3	I	119	SER
3	I	735	ALA
3	I	766	ALA
3	I	783	ARG
3	I	786	ILE
3	I	1111	ASP
3	I	1211	MET
3	I	1252	ILE
3	I	1338	ALA
3	I	1410	GLU
3	I	1441	GLN
3	I	1454	GLY
1	L	187	GLY
2	M	23	VAL
2	M	31	GLN
2	M	40	GLU
2	M	111	ASP
2	M	156	GLY
2	M	164	PRO
2	M	207	LEU
2	M	231	PRO
2	M	250	ARG
2	M	282	GLY
2	M	283	ILE
2	M	290	LEU
2	M	368	THR
2	M	369	PRO
2	M	740	GLU
2	M	908	GLY
3	N	31	THR
3	N	119	SER
3	N	120	ALA
3	N	382	GLU
3	N	735	ALA
3	N	737	ASN
3	N	989	TYR
3	N	1111	ASP
3	N	1197	ARG
3	N	1211	MET
3	N	1255	GLY
3	N	1288	GLU
3	N	1338	ALA

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Mol	Chain	Res	Type
3	N	1407	LEU
3	N	1410	GLU
3	N	1441	GLN
3	N	1454	GLY
7	X	136	ASP
7	Z	43	TYR
7	Z	136	ASP
1	A	30	ARG
1	A	118	ALA
1	A	125	PRO
1	B	44	LEU
1	B	118	ALA
1	B	224	TYR
2	C	10	ARG
2	C	111	ASP
2	C	144	PRO
2	C	278	GLU
2	C	589	ARG
2	C	932	GLU
2	C	998	TYR
3	D	120	ALA
3	D	140	ALA
3	D	208	PRO
3	D	356	PRO
3	D	572	ARG
3	D	783	ARG
3	D	827	ILE
3	D	1197	ARG
3	D	1220	ALA
3	D	1269	LYS
3	D	1407	LEU
4	E	42	PRO
4	E	46	PRO
1	F	30	ARG
1	F	125	PRO
1	F	226	SER
1	G	118	ALA
1	G	224	TYR
2	H	10	ARG
2	H	144	PRO
2	H	268	ASP
2	H	301	GLU

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Mol	Chain	Res	Type
2	H	589	ARG
2	H	808	ARG
2	H	932	GLU
3	I	120	ALA
3	I	572	ARG
3	I	580	ALA
3	I	639	LEU
3	I	827	ILE
3	I	989	TYR
3	I	1197	ARG
3	I	1207	TYR
3	I	1269	LYS
3	I	1315	ASP
3	I	1407	LEU
4	J	42	PRO
4	J	46	PRO
1	K	30	ARG
1	K	118	ALA
1	K	125	PRO
1	L	44	LEU
1	L	224	TYR
2	M	44	ILE
2	M	129	ILE
2	M	249	LYS
2	M	278	GLU
2	M	381	ALA
2	M	474	VAL
2	M	517	ARG
2	M	627	ARG
2	M	808	ARG
2	M	905	ILE
2	M	932	GLU
2	M	998	TYR
2	M	1097	LEU
3	N	137	PRO
3	N	540	LEU
3	N	572	ARG
3	N	639	LEU
3	N	766	ALA
3	N	783	ARG
3	N	1049	SER
3	N	1091	SER

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Mol	Chain	Res	Type
3	N	1207	TYR
3	N	1220	ALA
3	N	1269	LYS
3	N	1306	PRO
3	N	1315	ASP
3	N	1354	LYS
7	Y	115	THR
7	Z	115	THR
1	A	72	LYS
2	C	129	ILE
2	C	222	MET
2	C	424	GLY
2	C	627	ARG
2	C	765	SER
2	C	960	GLU
3	D	146	PRO
3	D	507	ASN
3	D	540	LEU
3	D	580	ALA
3	D	594	PRO
3	D	639	LEU
3	D	757	ALA
3	D	766	ALA
3	D	1306	PRO
3	D	1349	VAL
3	D	1354	LYS
1	G	44	LEU
2	H	222	MET
2	H	264	PRO
2	H	381	ALA
2	H	424	GLY
2	H	960	GLU
2	H	998	TYR
3	I	146	PRO
3	I	757	ALA
3	I	808	THR
3	I	892	ASP
3	I	1049	SER
3	I	1067	VAL
3	I	1196	THR
3	I	1220	ALA
3	I	1224	VAL

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Mol	Chain	Res	Type
3	I	1306	PRO
3	I	1354	LYS
3	I	1459	LEU
1	L	118	ALA
2	M	10	ARG
2	M	144	PRO
2	M	222	MET
2	M	274	ARG
2	M	301	GLU
2	M	450	GLY
2	M	859	PRO
3	N	140	ALA
3	N	580	ALA
3	N	705	ALA
3	N	757	ALA
3	N	786	ILE
3	N	808	THR
3	N	827	ILE
3	N	1265	ALA
3	N	1287	GLU
3	N	1459	LEU
7	X	46	SER
7	Y	136	ASP
1	A	9	PRO
1	B	125	PRO
2	C	450	GLY
2	C	474	VAL
2	C	517	ARG
2	C	859	PRO
3	D	137	PRO
3	D	483	HIS
3	D	484	PRO
3	D	504	ASP
3	D	705	ALA
3	D	786	ILE
3	D	1265	ALA
1	F	9	PRO
1	F	93	SER
2	H	249	LYS
3	I	483	HIS
3	I	484	PRO
3	I	507	ASN

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Mol	Chain	Res	Type
3	I	512	MET
3	I	540	LEU
3	I	1265	ALA
3	I	1324	PRO
1	K	9	PRO
1	K	72	LYS
1	L	59	GLU
2	M	365	ASP
2	M	424	GLY
2	M	960	GLU
3	N	160	GLU
3	N	483	HIS
3	N	507	ASN
3	N	1041	LEU
3	N	1411	GLY
7	X	115	THR
7	Y	44	ASP
2	C	681	GLY
3	D	512	MET
3	D	650	LEU
3	D	1324	PRO
3	D	1411	GLY
2	H	272	ALA
2	H	474	VAL
2	H	680	ASP
2	H	681	GLY
2	H	1059	ASP
3	I	564	GLU
3	I	705	ALA
1	L	125	PRO
2	M	180	GLY
2	M	589	ARG
3	N	146	PRO
3	N	896	ALA
3	N	1324	PRO
7	Z	124	PRO
7	Z	146	ARG
2	C	180	GLY
2	C	646	GLY
2	C	855	VAL
3	D	1223	ILE
3	D	1408	ILE

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Mol	Chain	Res	Type
2	H	180	GLY
2	M	681	GLY
2	M	727	PRO
3	N	484	PRO
3	N	1050	GLY
3	N	1408	ILE
3	D	1050	GLY
2	H	336	VAL
2	H	450	GLY
2	H	646	GLY
2	H	855	VAL
2	H	905	ILE
3	I	1050	GLY
3	I	1385	GLY
3	I	1411	GLY
2	M	74	GLY
2	M	243	ARG
2	M	779	GLY
2	C	74	GLY
2	C	779	GLY
3	D	108	VAL
3	D	1224	VAL
3	D	1385	GLY
2	H	779	GLY
2	M	646	GLY
4	O	46	PRO
2	C	727	PRO
2	C	797	GLY
3	D	683	ILE
3	D	1067	VAL
2	H	74	GLY
2	H	587	VAL
2	H	797	GLY
2	H	1076	VAL
3	I	108	VAL
2	M	77	PRO
7	X	124	PRO
3	D	1371	VAL
1	K	21	GLY
3	N	136	ASP

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%)	170 (87%)	26 (13%)	5	30
1	B	196/273 (72%)	169 (86%)	27 (14%)	4	29
1	F	195/273 (71%)	160 (82%)	35 (18%)	2	17
1	G	196/273 (72%)	165 (84%)	31 (16%)	3	23
1	K	195/273 (71%)	168 (86%)	27 (14%)	4	29
1	L	196/273 (72%)	168 (86%)	28 (14%)	4	28
2	C	932/941 (99%)	740 (79%)	192 (21%)	1	12
2	H	930/941 (99%)	743 (80%)	187 (20%)	1	13
2	M	932/941 (99%)	761 (82%)	171 (18%)	2	16
3	D	1142/1279 (89%)	943 (83%)	199 (17%)	2	18
3	I	1092/1279 (85%)	902 (83%)	190 (17%)	2	18
3	N	1143/1279 (89%)	957 (84%)	186 (16%)	3	22
4	E	82/88 (93%)	70 (85%)	12 (15%)	4	26
4	J	82/88 (93%)	69 (84%)	13 (16%)	3	23
4	O	82/88 (93%)	69 (84%)	13 (16%)	3	23
7	X	128/131 (98%)	114 (89%)	14 (11%)	8	39
7	Y	128/131 (98%)	109 (85%)	19 (15%)	4	26
7	Z	128/131 (98%)	109 (85%)	19 (15%)	4	26
All	All	7975/8955 (89%)	6586 (83%)	1389 (17%)	2	18

All (1389) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	16	GLN
1	A	20	TYR
1	A	25	LEU
1	A	26	GLU
1	A	30	ARG
1	A	34	VAL

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Mol	Chain	Res	Type
1	A	62	LEU
1	A	65	PHE
1	A	74	ASP
1	A	100	LEU
1	A	113	ASP
1	A	126	ASP
1	A	131	THR
1	A	141	GLU
1	A	143	ARG
1	A	145	ASP
1	A	156	HIS
1	A	161	ARG
1	A	163	ASN
1	A	165	ILE
1	A	175	ARG
1	A	180	GLN
1	A	184	THR
1	A	189	ARG
1	A	206	THR
1	A	219	ARG
1	B	18	ARG
1	B	20	TYR
1	B	25	LEU
1	B	28	LEU
1	B	59	GLU
1	B	62	LEU
1	B	65	PHE
1	B	73	GLU
1	B	74	ASP
1	B	95	GLN
1	B	104	GLU
1	B	159	LYS
1	B	161	ARG
1	B	162	ILE
1	B	163	ASN
1	B	165	ILE
1	B	167	VAL
1	B	168	ASP
1	B	179	PHE
1	B	180	GLN
1	B	185	ARG
1	B	191	ASP

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Mol	Chain	Res	Type
1	B	197	LEU
1	B	198	ARG
1	B	201	THR
1	B	206	THR
1	B	227	ASN
2	C	6	PHE
2	C	20	GLU
2	C	26	TYR
2	C	30	LEU
2	C	31	GLN
2	C	33	ASP
2	C	34	VAL
2	C	39	ARG
2	C	48	PHE
2	C	49	ARG
2	C	52	PHE
2	C	56	GLU
2	C	67	ASP
2	C	75	GLU
2	C	77	PRO
2	C	80	GLN
2	C	81	ASP
2	C	84	ARG
2	C	88	LEU
2	C	89	THR
2	C	94	LEU
2	C	95	TYR
2	C	98	LEU
2	C	104	ASP
2	C	107	LEU
2	C	112	GLU
2	C	113	VAL
2	C	114	PHE
2	C	115	LEU
2	C	117	HIS
2	C	118	ILE
2	C	122	THR
2	C	124	ASP
2	C	141	HIS
2	C	142	ARG
2	C	144	PRO
2	C	158	TYR

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Mol	Chain	Res	Type
2	C	173	ASP
2	C	178	PRO
2	C	187	ASN
2	C	189	ARG
2	C	190	LYS
2	C	198	ARG
2	C	205	GLU
2	C	206	THR
2	C	209	ARG
2	C	210	GLU
2	C	216	GLU
2	C	237	ARG
2	C	238	LEU
2	C	241	LEU
2	C	242	LEU
2	C	248	PRO
2	C	249	LYS
2	C	250	ARG
2	C	251	ASP
2	C	252	LYS
2	C	258	TYR
2	C	261	ILE
2	C	264	PRO
2	C	267	TYR
2	C	281	LEU
2	C	283	ILE
2	C	285	LEU
2	C	289	THR
2	C	290	LEU
2	C	293	PHE
2	C	295	ASP
2	C	297	GLU
2	C	298	PHE
2	C	306	THR
2	C	308	ARG
2	C	309	TYR
2	C	313	LEU
2	C	321	GLU
2	C	322	VAL
2	C	328	LEU
2	C	335	THR
2	C	343	GLN

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Mol	Chain	Res	Type
2	C	345	ARG
2	C	359	MET
2	C	360	LEU
2	C	364	GLU
2	C	367	LEU
2	C	368	THR
2	C	374	ASN
2	C	376	ARG
2	C	383	ARG
2	C	388	ARG
2	C	393	GLN
2	C	419	THR
2	C	422	ARG
2	C	425	PHE
2	C	433	THR
2	C	453	THR
2	C	455	LEU
2	C	469	THR
2	C	480	THR
2	C	481	ASP
2	C	486	MET
2	C	498	GLN
2	C	500	ASN
2	C	503	LEU
2	C	514	VAL
2	C	523	ILE
2	C	525	SER
2	C	556	ASN
2	C	557	ARG
2	C	569	VAL
2	C	572	ILE
2	C	575	GLN
2	C	579	VAL
2	C	584	GLU
2	C	602	GLU
2	C	606	VAL
2	C	609	ASN
2	C	613	VAL
2	C	621	VAL
2	C	627	ARG
2	C	635	THR
2	C	640	ARG

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Mol	Chain	Res	Type
2	C	642	ARG
2	C	645	VAL
2	C	654	LEU
2	C	661	SER
2	C	662	GLU
2	C	668	LEU
2	C	679	PHE
2	C	683	ASN
2	C	685	GLU
2	C	691	SER
2	C	695	LEU
2	C	699	PHE
2	C	701	THR
2	C	702	SER
2	C	704	HIS
2	C	714	ASP
2	C	722	ILE
2	C	727	PRO
2	C	728	HIS
2	C	729	LEU
2	C	738	ASP
2	C	740	GLU
2	C	764	GLU
2	C	766	GLU
2	C	768	THR
2	C	784	ASP
2	C	787	ASP
2	C	794	PRO
2	C	796	GLU
2	C	805	ARG
2	C	807	ARG
2	C	837	ASP
2	C	839	LEU
2	C	858	MET
2	C	863	ASP
2	C	869	VAL
2	C	870	ILE
2	C	881	ASN
2	C	886	LEU
2	C	918	LEU
2	C	920	GLN
2	C	923	GLU

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Mol	Chain	Res	Type
2	C	929	ARG
2	C	938	LYS
2	C	939	ARG
2	C	946	ARG
2	C	950	LEU
2	C	952	LEU
2	C	958	THR
2	C	959	PRO
2	C	975	TYR
2	C	981	GLU
2	C	988	VAL
2	C	995	MET
2	C	999	HIS
2	C	1004	LYS
2	C	1005	MET
2	C	1010	THR
2	C	1027	PHE
2	C	1035	MET
2	C	1050	GLN
2	C	1052	MET
2	C	1060	ILE
2	C	1076	VAL
2	C	1088	LEU
2	C	1092	LEU
2	C	1095	LEU
2	C	1103	ASP
2	C	1105	LYS
2	C	1110	ASP
2	C	1111	ILE
3	D	3	LYS
3	D	6	ARG
3	D	21	TRP
3	D	34	TYR
3	D	37	LEU
3	D	41	ARG
3	D	42	ASP
3	D	47	GLU
3	D	52	PRO
3	D	55	ASP
3	D	57	GLU
3	D	64	LYS
3	D	68	PHE

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Mol	Chain	Res	Type
3	D	69	GLU
3	D	74	GLU
3	D	75	ARG
3	D	80	VAL
3	D	84	ILE
3	D	95	LEU
3	D	98	PRO
3	D	102	ILE
3	D	108	VAL
3	D	112	ILE
3	D	124	GLU
3	D	127	LEU
3	D	128	TYR
3	D	136	ASP
3	D	137	PRO
3	D	138	LYS
3	D	141	ILE
3	D	149	LYS
3	D	151	GLN
3	D	153	LEU
3	D	154	THR
3	D	157	GLU
3	D	158	TYR
3	D	162	ARG
3	D	166	GLN
3	D	199	LEU
3	D	200	ASP
3	D	205	TYR
3	D	209	ARG
3	D	213	VAL
3	D	350	HIS
3	D	351	MET
3	D	387	LEU
3	D	392	SER
3	D	408	GLU
3	D	419	ASP
3	D	438	ASP
3	D	447	VAL
3	D	448	GLU
3	D	449	SER
3	D	450	TYR
3	D	452	ILE

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Mol	Chain	Res	Type
3	D	455	ARG
3	D	456	MET
3	D	463	GLN
3	D	465	LEU
3	D	469	ASP
3	D	471	GLU
3	D	475	LYS
3	D	486	ARG
3	D	489	ARG
3	D	504	ASP
3	D	511	TRP
3	D	512	MET
3	D	515	GLU
3	D	525	ARG
3	D	594	PRO
3	D	596	SER
3	D	600	LEU
3	D	614	PHE
3	D	622	ARG
3	D	624	ASP
3	D	631	ILE
3	D	639	LEU
3	D	641	GLN
3	D	642	CYS
3	D	651	GLU
3	D	652	LEU
3	D	660	LYS
3	D	676	MET
3	D	682	ASP
3	D	686	GLU
3	D	688	TRP
3	D	702	LEU
3	D	703	ASN
3	D	709	HIS
3	D	710	ARG
3	D	736	PHE
3	D	749	VAL
3	D	754	PHE
3	D	764	LEU
3	D	765	SER
3	D	772	PRO
3	D	783	ARG

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Mol	Chain	Res	Type
3	D	785	ILE
3	D	787	LEU
3	D	791	TYR
3	D	792	ILE
3	D	799	LYS
3	D	804	LEU
3	D	810	GLU
3	D	824	ASN
3	D	833	GLU
3	D	851	LEU
3	D	855	HIS
3	D	861	GLN
3	D	863	VAL
3	D	879	ARG
3	D	890	VAL
3	D	892	ASP
3	D	897	TRP
3	D	900	ILE
3	D	902	LEU
3	D	914	LEU
3	D	922	LEU
3	D	925	GLU
3	D	952	ASP
3	D	959	GLU
3	D	964	LEU
3	D	982	PHE
3	D	983	LEU
3	D	988	ARG
3	D	991	GLN
3	D	999	THR
3	D	1001	GLU
3	D	1003	VAL
3	D	1029	ARG
3	D	1031	ASN
3	D	1041	LEU
3	D	1042	ARG
3	D	1053	PHE
3	D	1061	PHE
3	D	1062	ARG
3	D	1067	VAL
3	D	1068	LEU
3	D	1079	LYS

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Mol	Chain	Res	Type
3	D	1083	ASP
3	D	1087	ARG
3	D	1090	ASP
3	D	1095	THR
3	D	1098	LEU
3	D	1105	ILE
3	D	1108	ARG
3	D	1109	GLU
3	D	1112	CYS
3	D	1127	GLU
3	D	1135	ARG
3	D	1151	ARG
3	D	1161	GLU
3	D	1166	LEU
3	D	1183	ILE
3	D	1197	ARG
3	D	1204	CYS
3	D	1207	TYR
3	D	1234	THR
3	D	1254	GLN
3	D	1257	PRO
3	D	1262	LEU
3	D	1282	ARG
3	D	1296	SER
3	D	1297	GLU
3	D	1299	PHE
3	D	1302	GLU
3	D	1304	LYS
3	D	1305	LEU
3	D	1308	GLU
3	D	1311	LEU
3	D	1314	LYS
3	D	1320	GLU
3	D	1325	LEU
3	D	1337	GLU
3	D	1342	GLU
3	D	1355	VAL
3	D	1381	VAL
3	D	1382	THR
3	D	1383	ASP
3	D	1386	ASP
3	D	1387	SER

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Mol	Chain	Res	Type
3	D	1388	ARG
3	D	1389	LEU
3	D	1390	LEU
3	D	1396	GLU
3	D	1410	GLU
3	D	1424	VAL
3	D	1425	THR
3	D	1434	TRP
3	D	1439	SER
3	D	1440	PHE
3	D	1441	GLN
3	D	1452	ILE
3	D	1465	ASN
3	D	1472	ILE
3	D	1483	PHE
3	D	1485	GLN
3	D	1488	ASP
3	D	1496	GLU
4	E	14	ASP
4	E	18	ARG
4	E	20	THR
4	E	30	LEU
4	E	36	LYS
4	E	37	ASN
4	E	48	MET
4	E	62	THR
4	E	72	ARG
4	E	74	VAL
4	E	78	ASN
4	E	81	PRO
1	F	16	GLN
1	F	20	TYR
1	F	26	GLU
1	F	30	ARG
1	F	34	VAL
1	F	35	THR
1	F	41	ARG
1	F	47	SER
1	F	49	PRO
1	F	55	SER
1	F	60	ASP
1	F	62	LEU

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Mol	Chain	Res	Type
1	F	65	PHE
1	F	74	ASP
1	F	76	VAL
1	F	96	THR
1	F	99	LEU
1	F	100	LEU
1	F	113	ASP
1	F	119	ASP
1	F	123	MET
1	F	126	ASP
1	F	140	MET
1	F	163	ASN
1	F	175	ARG
1	F	176	ARG
1	F	180	GLN
1	F	182	GLU
1	F	184	THR
1	F	188	GLN
1	F	189	ARG
1	F	204	SER
1	F	211	LEU
1	F	216	GLU
1	F	219	ARG
1	G	20	TYR
1	G	26	GLU
1	G	32	PHE
1	G	35	THR
1	G	36	LEU
1	G	60	ASP
1	G	62	LEU
1	G	64	GLU
1	G	65	PHE
1	G	66	SER
1	G	67	THR
1	G	69	PRO
1	G	73	GLU
1	G	91	ASN
1	G	95	GLN
1	G	99	LEU
1	G	101	LEU
1	G	113	ASP
1	G	123	MET

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Mol	Chain	Res	Type
1	G	140	MET
1	G	163	ASN
1	G	179	PHE
1	G	181	VAL
1	G	184	THR
1	G	188	GLN
1	G	197	LEU
1	G	201	THR
1	G	212	ASN
1	G	213	GLN
1	G	219	ARG
1	G	220	GLU
2	H	1	MET
2	H	5	ARG
2	H	6	PHE
2	H	26	TYR
2	H	30	LEU
2	H	31	GLN
2	H	33	ASP
2	H	34	VAL
2	H	39	ARG
2	H	48	PHE
2	H	52	PHE
2	H	54	ILE
2	H	67	ASP
2	H	75	GLU
2	H	80	GLN
2	H	81	ASP
2	H	88	LEU
2	H	89	THR
2	H	94	LEU
2	H	95	TYR
2	H	98	LEU
2	H	104	ASP
2	H	113	VAL
2	H	115	LEU
2	H	117	HIS
2	H	118	ILE
2	H	121	MET
2	H	141	HIS
2	H	142	ARG
2	H	144	PRO

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Mol	Chain	Res	Type
2	H	158	TYR
2	H	163	ILE
2	H	173	ASP
2	H	191	PHE
2	H	194	VAL
2	H	196	LEU
2	H	198	ARG
2	H	199	VAL
2	H	203	ASP
2	H	204	GLN
2	H	205	GLU
2	H	209	ARG
2	H	230	ARG
2	H	233	GLU
2	H	237	ARG
2	H	238	LEU
2	H	240	THR
2	H	241	LEU
2	H	243	ARG
2	H	250	ARG
2	H	251	ASP
2	H	257	VAL
2	H	261	ILE
2	H	264	PRO
2	H	267	TYR
2	H	268	ASP
2	H	269	LEU
2	H	274	ARG
2	H	275	TYR
2	H	279	GLU
2	H	281	LEU
2	H	285	LEU
2	H	289	THR
2	H	290	LEU
2	H	292	ARG
2	H	293	PHE
2	H	294	GLU
2	H	295	ASP
2	H	297	GLU
2	H	298	PHE
2	H	302	VAL
2	H	306	THR

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Mol	Chain	Res	Type
2	H	309	TYR
2	H	313	LEU
2	H	321	GLU
2	H	335	THR
2	H	343	GLN
2	H	345	ARG
2	H	348	LEU
2	H	358	ARG
2	H	359	MET
2	H	360	LEU
2	H	365	ASP
2	H	366	SER
2	H	367	LEU
2	H	369	PRO
2	H	383	ARG
2	H	388	ARG
2	H	390	GLN
2	H	391	LEU
2	H	393	GLN
2	H	394	PHE
2	H	403	SER
2	H	418	LEU
2	H	419	THR
2	H	421	GLU
2	H	422	ARG
2	H	433	THR
2	H	453	THR
2	H	455	LEU
2	H	464	LEU
2	H	474	VAL
2	H	480	THR
2	H	486	MET
2	H	498	GLN
2	H	500	ASN
2	H	504	GLU
2	H	523	ILE
2	H	533	ASP
2	H	546	LEU
2	H	556	ASN
2	H	557	ARG
2	H	564	MET
2	H	584	GLU

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Mol	Chain	Res	Type
2	H	585	GLU
2	H	592	LEU
2	H	603	VAL
2	H	606	VAL
2	H	609	ASN
2	H	611	ILE
2	H	613	VAL
2	H	620	LEU
2	H	621	VAL
2	H	635	THR
2	H	645	VAL
2	H	654	LEU
2	H	662	GLU
2	H	668	LEU
2	H	680	ASP
2	H	691	SER
2	H	695	LEU
2	H	699	PHE
2	H	701	THR
2	H	702	SER
2	H	714	ASP
2	H	730	SER
2	H	740	GLU
2	H	764	GLU
2	H	766	GLU
2	H	785	VAL
2	H	787	ASP
2	H	803	THR
2	H	805	ARG
2	H	807	ARG
2	H	839	LEU
2	H	862	PRO
2	H	863	ASP
2	H	870	ILE
2	H	884	GLN
2	H	901	TYR
2	H	920	GLN
2	H	923	GLU
2	H	929	ARG
2	H	932	GLU
2	H	939	ARG
2	H	946	ARG

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Mol	Chain	Res	Type
2	H	950	LEU
2	H	952	LEU
2	H	953	VAL
2	H	954	THR
2	H	958	THR
2	H	963	LEU
2	H	966	LEU
2	H	988	VAL
2	H	995	MET
2	H	1000	MET
2	H	1004	LYS
2	H	1005	MET
2	H	1014	SER
2	H	1018	GLN
2	H	1026	GLN
2	H	1035	MET
2	H	1052	MET
2	H	1057	SER
2	H	1058	ASP
2	H	1060	ILE
2	H	1063	ARG
2	H	1064	ASN
2	H	1076	VAL
2	H	1080	SER
2	H	1083	GLU
2	H	1085	PHE
2	H	1095	LEU
2	H	1097	LEU
2	H	1103	ASP
2	H	1104	GLU
2	H	1105	LYS
3	I	6	ARG
3	I	21	TRP
3	I	42	ASP
3	I	47	GLU
3	I	56	TYR
3	I	57	GLU
3	I	64	LYS
3	I	68	PHE
3	I	69	GLU
3	I	73	CYS
3	I	74	GLU

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Mol	Chain	Res	Type
3	I	75	ARG
3	I	76	CYS
3	I	105	VAL
3	I	108	VAL
3	I	116	LEU
3	I	121	THR
3	I	127	LEU
3	I	128	TYR
3	I	131	LYS
3	I	134	VAL
3	I	138	LYS
3	I	141	ILE
3	I	143	ASN
3	I	146	PRO
3	I	149	LYS
3	I	151	GLN
3	I	152	LEU
3	I	153	LEU
3	I	154	THR
3	I	157	GLU
3	I	158	TYR
3	I	162	ARG
3	I	163	TYR
3	I	176	ASP
3	I	195	VAL
3	I	405	ASP
3	I	406	ASP
3	I	423	ASP
3	I	438	ASP
3	I	448	GLU
3	I	450	TYR
3	I	452	ILE
3	I	465	LEU
3	I	471	GLU
3	I	489	ARG
3	I	493	ARG
3	I	504	ASP
3	I	507	ASN
3	I	511	TRP
3	I	512	MET
3	I	525	ARG
3	I	538	SER

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Mol	Chain	Res	Type
3	I	549	ASN
3	I	566	ILE
3	I	598	ARG
3	I	600	LEU
3	I	618	LEU
3	I	622	ARG
3	I	624	ASP
3	I	626	SER
3	I	639	LEU
3	I	641	GLN
3	I	642	CYS
3	I	651	GLU
3	I	652	LEU
3	I	660	LYS
3	I	676	MET
3	I	678	GLU
3	I	679	ARG
3	I	680	GLN
3	I	681	ARG
3	I	685	ASP
3	I	688	TRP
3	I	692	GLU
3	I	707	THR
3	I	709	HIS
3	I	710	ARG
3	I	721	VAL
3	I	734	GLU
3	I	736	PHE
3	I	747	VAL
3	I	749	VAL
3	I	754	PHE
3	I	765	SER
3	I	778	LEU
3	I	781	PRO
3	I	783	ARG
3	I	784	ASP
3	I	800	LYS
3	I	805	GLU
3	I	824	ASN
3	I	833	GLU
3	I	838	ARG
3	I	842	VAL

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Mol	Chain	Res	Type
3	I	845	ASN
3	I	847	ASP
3	I	863	VAL
3	I	864	VAL
3	I	867	ARG
3	I	879	ARG
3	I	880	ILE
3	I	886	VAL
3	I	892	ASP
3	I	897	TRP
3	I	900	ILE
3	I	902	LEU
3	I	917	GLN
3	I	922	LEU
3	I	925	GLU
3	I	927	THR
3	I	944	THR
3	I	952	ASP
3	I	959	GLU
3	I	964	LEU
3	I	982	PHE
3	I	983	LEU
3	I	988	ARG
3	I	991	GLN
3	I	999	THR
3	I	1000	THR
3	I	1001	GLU
3	I	1025	GLN
3	I	1031	ASN
3	I	1041	LEU
3	I	1042	ARG
3	I	1062	ARG
3	I	1068	LEU
3	I	1083	ASP
3	I	1084	THR
3	I	1088	THR
3	I	1095	THR
3	I	1100	ASP
3	I	1108	ARG
3	I	1109	GLU
3	I	1112	CYS
3	I	1114	THR

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Mol	Chain	Res	Type
3	I	1119	SER
3	I	1131	SER
3	I	1132	LEU
3	I	1135	ARG
3	I	1151	ARG
3	I	1156	LEU
3	I	1161	GLU
3	I	1166	LEU
3	I	1183	ILE
3	I	1195	GLN
3	I	1197	ARG
3	I	1207	TYR
3	I	1209	LEU
3	I	1210	SER
3	I	1216	SER
3	I	1236	LEU
3	I	1252	ILE
3	I	1262	LEU
3	I	1282	ARG
3	I	1290	LEU
3	I	1297	GLU
3	I	1299	PHE
3	I	1304	LYS
3	I	1305	LEU
3	I	1306	PRO
3	I	1307	LYS
3	I	1308	GLU
3	I	1310	ARG
3	I	1311	LEU
3	I	1320	GLU
3	I	1337	GLU
3	I	1339	LYS
3	I	1342	GLU
3	I	1348	LEU
3	I	1355	VAL
3	I	1359	GLN
3	I	1382	THR
3	I	1389	LEU
3	I	1390	LEU
3	I	1396	GLU
3	I	1415	VAL
3	I	1424	VAL

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Mol	Chain	Res	Type
3	I	1431	THR
3	I	1434	TRP
3	I	1460	ILE
3	I	1465	ASN
3	I	1472	ILE
3	I	1483	PHE
3	I	1485	GLN
3	I	1488	ASP
3	I	1492	LEU
3	I	1496	GLU
3	I	1501	GLU
4	J	9	LEU
4	J	12	MET
4	J	13	VAL
4	J	31	LEU
4	J	37	ASN
4	J	38	THR
4	J	41	GLU
4	J	45	ARG
4	J	51	LEU
4	J	57	ASP
4	J	74	VAL
4	J	75	PHE
4	J	89	MET
1	K	16	GLN
1	K	19	GLU
1	K	20	TYR
1	K	26	GLU
1	K	64	GLU
1	K	65	PHE
1	K	68	ILE
1	K	74	ASP
1	K	89	PHE
1	K	96	THR
1	K	113	ASP
1	K	119	ASP
1	K	123	MET
1	K	133	GLU
1	K	140	MET
1	K	141	GLU
1	K	143	ARG
1	K	151	VAL

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Mol	Chain	Res	Type
1	K	165	ILE
1	K	175	ARG
1	K	176	ARG
1	K	180	GLN
1	K	185	ARG
1	K	188	GLN
1	K	198	ARG
1	K	199	ILE
1	K	206	THR
1	L	7	LYS
1	L	15	THR
1	L	20	TYR
1	L	25	LEU
1	L	26	GLU
1	L	30	ARG
1	L	32	PHE
1	L	62	LEU
1	L	66	SER
1	L	67	THR
1	L	73	GLU
1	L	88	ARG
1	L	91	ASN
1	L	95	GLN
1	L	104	GLU
1	L	115	LEU
1	L	119	ASP
1	L	123	MET
1	L	161	ARG
1	L	163	ASN
1	L	167	VAL
1	L	179	PHE
1	L	197	LEU
1	L	198	ARG
1	L	206	THR
1	L	213	GLN
1	L	223	THR
1	L	227	ASN
2	M	6	PHE
2	M	19	THR
2	M	20	GLU
2	M	26	TYR
2	M	31	GLN

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Mol	Chain	Res	Type
2	M	33	ASP
2	M	34	VAL
2	M	39	ARG
2	M	48	PHE
2	M	52	PHE
2	M	56	GLU
2	M	75	GLU
2	M	80	GLN
2	M	84	ARG
2	M	88	LEU
2	M	89	THR
2	M	94	LEU
2	M	95	TYR
2	M	98	LEU
2	M	104	ASP
2	M	111	ASP
2	M	114	PHE
2	M	115	LEU
2	M	117	HIS
2	M	118	ILE
2	M	121	MET
2	M	141	HIS
2	M	142	ARG
2	M	158	TYR
2	M	168	ARG
2	M	173	ASP
2	M	179	ASN
2	M	189	ARG
2	M	190	LYS
2	M	191	PHE
2	M	194	VAL
2	M	198	ARG
2	M	200	LEU
2	M	203	ASP
2	M	204	GLN
2	M	205	GLU
2	M	209	ARG
2	M	214	TYR
2	M	235	LEU
2	M	237	ARG
2	M	238	LEU
2	M	241	LEU

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Mol	Chain	Res	Type
2	M	249	LYS
2	M	250	ARG
2	M	260	LEU
2	M	266	ARG
2	M	267	TYR
2	M	268	ASP
2	M	274	ARG
2	M	275	TYR
2	M	278	GLU
2	M	279	GLU
2	M	285	LEU
2	M	289	THR
2	M	293	PHE
2	M	295	ASP
2	M	297	GLU
2	M	304	LEU
2	M	309	TYR
2	M	321	GLU
2	M	335	THR
2	M	343	GLN
2	M	345	ARG
2	M	348	LEU
2	M	358	ARG
2	M	359	MET
2	M	360	LEU
2	M	361	MET
2	M	363	SER
2	M	367	LEU
2	M	371	LYS
2	M	374	ASN
2	M	376	ARG
2	M	383	ARG
2	M	388	ARG
2	M	390	GLN
2	M	393	GLN
2	M	394	PHE
2	M	418	LEU
2	M	419	THR
2	M	421	GLU
2	M	422	ARG
2	M	453	THR
2	M	455	LEU

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Mol	Chain	Res	Type
2	M	469	THR
2	M	481	ASP
2	M	484	VAL
2	M	486	MET
2	M	498	GLN
2	M	503	LEU
2	M	504	GLU
2	M	508	ILE
2	M	514	VAL
2	M	523	ILE
2	M	533	ASP
2	M	545	ASN
2	M	548	PRO
2	M	556	ASN
2	M	559	LEU
2	M	563	ASN
2	M	590	ASP
2	M	602	GLU
2	M	606	VAL
2	M	609	ASN
2	M	613	VAL
2	M	621	VAL
2	M	635	THR
2	M	638	ASP
2	M	645	VAL
2	M	648	ARG
2	M	662	GLU
2	M	668	LEU
2	M	679	PHE
2	M	680	ASP
2	M	690	ILE
2	M	691	SER
2	M	693	GLU
2	M	695	LEU
2	M	699	PHE
2	M	701	THR
2	M	702	SER
2	M	710	ILE
2	M	714	ASP
2	M	722	ILE
2	M	727	PRO
2	M	738	ASP

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Mol	Chain	Res	Type
2	M	739	GLU
2	M	781	LYS
2	M	787	ASP
2	M	794	PRO
2	M	803	THR
2	M	805	ARG
2	M	839	LEU
2	M	863	ASP
2	M	870	ILE
2	M	881	ASN
2	M	884	GLN
2	M	920	GLN
2	M	923	GLU
2	M	938	LYS
2	M	939	ARG
2	M	946	ARG
2	M	950	LEU
2	M	958	THR
2	M	975	TYR
2	M	981	GLU
2	M	988	VAL
2	M	995	MET
2	M	999	HIS
2	M	1000	MET
2	M	1004	LYS
2	M	1005	MET
2	M	1012	PRO
2	M	1027	PHE
2	M	1035	MET
2	M	1052	MET
2	M	1055	LEU
2	M	1057	SER
2	M	1063	ARG
2	M	1076	VAL
2	M	1080	SER
2	M	1085	PHE
2	M	1088	LEU
2	M	1097	LEU
2	M	1105	LYS
2	M	1112	PHE
3	N	6	ARG
3	N	10	ILE

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Mol	Chain	Res	Type
3	N	21	TRP
3	N	41	ARG
3	N	47	GLU
3	N	53	ILE
3	N	55	ASP
3	N	57	GLU
3	N	60	CYS
3	N	64	LYS
3	N	68	PHE
3	N	69	GLU
3	N	74	GLU
3	N	75	ARG
3	N	87	ARG
3	N	95	LEU
3	N	108	VAL
3	N	112	ILE
3	N	127	LEU
3	N	128	TYR
3	N	135	LEU
3	N	137	PRO
3	N	141	ILE
3	N	149	LYS
3	N	150	ARG
3	N	153	LEU
3	N	154	THR
3	N	158	TYR
3	N	162	ARG
3	N	163	TYR
3	N	165	LYS
3	N	197	SER
3	N	206	ARG
3	N	349	PRO
3	N	351	MET
3	N	361	VAL
3	N	387	LEU
3	N	405	ASP
3	N	408	GLU
3	N	410	SER
3	N	419	ASP
3	N	445	ARG
3	N	447	VAL
3	N	448	GLU

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Mol	Chain	Res	Type
3	N	450	TYR
3	N	451	ASP
3	N	452	ILE
3	N	453	ASP
3	N	465	LEU
3	N	469	ASP
3	N	471	GLU
3	N	486	ARG
3	N	488	ARG
3	N	489	ARG
3	N	507	ASN
3	N	512	MET
3	N	525	ARG
3	N	538	SER
3	N	549	ASN
3	N	570	GLU
3	N	605	ASP
3	N	611	GLN
3	N	617	ASN
3	N	624	ASP
3	N	626	SER
3	N	631	ILE
3	N	636	GLN
3	N	639	LEU
3	N	641	GLN
3	N	651	GLU
3	N	652	LEU
3	N	660	LYS
3	N	682	ASP
3	N	688	TRP
3	N	703	ASN
3	N	709	HIS
3	N	710	ARG
3	N	721	VAL
3	N	732	VAL
3	N	733	CYS
3	N	734	GLU
3	N	749	VAL
3	N	754	PHE
3	N	765	SER
3	N	783	ARG
3	N	792	ILE

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Mol	Chain	Res	Type
3	N	799	LYS
3	N	804	LEU
3	N	805	GLU
3	N	808	THR
3	N	824	ASN
3	N	827	ILE
3	N	833	GLU
3	N	838	ARG
3	N	842	VAL
3	N	847	ASP
3	N	862	ASP
3	N	863	VAL
3	N	876	SER
3	N	881	LEU
3	N	892	ASP
3	N	897	TRP
3	N	900	ILE
3	N	902	LEU
3	N	914	LEU
3	N	920	LEU
3	N	927	THR
3	N	940	THR
3	N	944	THR
3	N	952	ASP
3	N	955	VAL
3	N	959	GLU
3	N	964	LEU
3	N	970	LYS
3	N	973	GLN
3	N	982	PHE
3	N	983	LEU
3	N	988	ARG
3	N	991	GLN
3	N	1001	GLU
3	N	1029	ARG
3	N	1041	LEU
3	N	1042	ARG
3	N	1053	PHE
3	N	1062	ARG
3	N	1068	LEU
3	N	1083	ASP
3	N	1090	ASP

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Mol	Chain	Res	Type
3	N	1095	THR
3	N	1100	ASP
3	N	1105	ILE
3	N	1108	ARG
3	N	1109	GLU
3	N	1112	CYS
3	N	1130	ARG
3	N	1131	SER
3	N	1151	ARG
3	N	1156	LEU
3	N	1161	GLU
3	N	1165	TYR
3	N	1166	LEU
3	N	1195	GLN
3	N	1197	ARG
3	N	1204	CYS
3	N	1207	TYR
3	N	1208	ASP
3	N	1235	GLN
3	N	1236	LEU
3	N	1237	THR
3	N	1254	GLN
3	N	1257	PRO
3	N	1261	GLU
3	N	1262	LEU
3	N	1264	GLU
3	N	1282	ARG
3	N	1287	GLU
3	N	1297	GLU
3	N	1299	PHE
3	N	1305	LEU
3	N	1311	LEU
3	N	1320	GLU
3	N	1325	LEU
3	N	1337	GLU
3	N	1342	GLU
3	N	1355	VAL
3	N	1363	LEU
3	N	1382	THR
3	N	1387	SER
3	N	1388	ARG
3	N	1389	LEU

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Mol	Chain	Res	Type
3	N	1396	GLU
3	N	1415	VAL
3	N	1424	VAL
3	N	1433	SER
3	N	1434	TRP
3	N	1435	LEU
3	N	1440	PHE
3	N	1460	ILE
3	N	1465	ASN
3	N	1470	ARG
3	N	1472	ILE
3	N	1483	PHE
3	N	1485	GLN
3	N	1488	ASP
3	N	1496	GLU
3	N	1501	GLU
4	O	7	ASP
4	O	31	LEU
4	O	37	ASN
4	O	41	GLU
4	O	45	ARG
4	O	50	THR
4	O	56	ASP
4	O	57	ASP
4	O	59	ASN
4	O	73	LEU
4	O	78	ASN
4	O	82	GLU
4	O	86	GLN
7	X	21	ARG
7	X	41	ASP
7	X	43	TYR
7	X	44	ASP
7	X	74	ILE
7	X	76	GLU
7	X	85	LEU
7	X	98	GLU
7	X	99	ARG
7	X	114	ASP
7	X	115	THR
7	X	124	PRO
7	X	133	ARG

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Mol	Chain	Res	Type
7	X	138	LEU
7	Y	21	ARG
7	Y	34	GLN
7	Y	43	TYR
7	Y	73	VAL
7	Y	74	ILE
7	Y	76	GLU
7	Y	85	LEU
7	Y	98	GLU
7	Y	99	ARG
7	Y	102	VAL
7	Y	105	VAL
7	Y	114	ASP
7	Y	115	THR
7	Y	119	ILE
7	Y	124	PRO
7	Y	133	ARG
7	Y	138	LEU
7	Y	143	PRO
7	Y	155	HIS
7	Z	21	ARG
7	Z	44	ASP
7	Z	63	ASP
7	Z	64	SER
7	Z	71	ARG
7	Z	76	GLU
7	Z	81	GLU
7	Z	85	LEU
7	Z	98	GLU
7	Z	99	ARG
7	Z	102	VAL
7	Z	107	PRO
7	Z	113	LEU
7	Z	114	ASP
7	Z	115	THR
7	Z	117	MET
7	Z	119	ILE
7	Z	138	LEU
7	Z	139	SER

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (249) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	38	ASN
1	A	63	HIS
1	A	91	ASN
1	A	124	ASN
1	A	128	HIS
1	A	139	ASN
1	A	156	HIS
1	A	163	ASN
1	A	180	GLN
1	A	188	GLN
1	A	221	HIS
1	A	229	GLN
1	B	16	GLN
1	B	38	ASN
1	B	95	GLN
1	B	180	GLN
1	B	212	ASN
1	B	227	ASN
2	C	22	GLN
2	C	31	GLN
2	C	41	ASN
2	C	45	GLN
2	C	80	GLN
2	C	99	GLN
2	C	102	HIS
2	C	343	GLN
2	C	374	ASN
2	C	390	GLN
2	C	393	GLN
2	C	406	HIS
2	C	431	HIS
2	C	498	GLN
2	C	552	HIS
2	C	575	GLN
2	C	633	GLN
2	C	639	GLN
2	C	670	GLN
2	C	829	GLN
2	C	834	GLN
2	C	845	ASN
2	C	872	ASN
2	C	881	ASN
2	C	884	GLN

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Mol	Chain	Res	Type
2	C	899	GLN
2	C	969	GLN
2	C	1018	GLN
2	C	1047	HIS
2	C	1100	GLN
2	C	1107	ASN
3	D	151	GLN
3	D	166	GLN
3	D	189	GLN
3	D	463	GLN
3	D	549	ASN
3	D	560	GLN
3	D	593	ASN
3	D	617	ASN
3	D	669	ASN
3	D	703	ASN
3	D	709	HIS
3	D	724	GLN
3	D	727	GLN
3	D	744	GLN
3	D	762	GLN
3	D	767	HIS
3	D	768	ASN
3	D	816	HIS
3	D	824	ASN
3	D	909	ASN
3	D	976	GLN
3	D	1025	GLN
3	D	1034	GLN
3	D	1116	ASN
3	D	1202	GLN
3	D	1323	GLN
3	D	1367	HIS
3	D	1441	GLN
4	E	28	GLN
4	E	33	HIS
4	E	37	ASN
4	E	86	GLN
1	F	38	ASN
1	F	63	HIS
1	F	81	ASN
1	F	91	ASN

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Mol	Chain	Res	Type
1	F	128	HIS
1	F	156	HIS
1	F	163	ASN
1	F	180	GLN
1	F	188	GLN
1	F	212	ASN
1	F	213	GLN
1	F	227	ASN
1	G	16	GLN
1	G	38	ASN
1	G	63	HIS
1	G	81	ASN
1	G	91	ASN
1	G	95	GLN
1	G	124	ASN
1	G	139	ASN
1	G	180	GLN
1	G	188	GLN
1	G	212	ASN
1	G	227	ASN
2	H	31	GLN
2	H	41	ASN
2	H	45	GLN
2	H	102	HIS
2	H	343	GLN
2	H	374	ASN
2	H	393	GLN
2	H	406	HIS
2	H	431	HIS
2	H	434	HIS
2	H	498	GLN
2	H	552	HIS
2	H	556	ASN
2	H	575	GLN
2	H	609	ASN
2	H	633	GLN
2	H	639	GLN
2	H	683	ASN
2	H	860	HIS
2	H	872	ASN
2	H	881	ASN
2	H	889	HIS

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Mol	Chain	Res	Type
2	H	899	GLN
2	H	969	GLN
2	H	1018	GLN
2	H	1019	GLN
2	H	1030	GLN
2	H	1107	ASN
3	I	151	GLN
3	I	189	GLN
3	I	463	GLN
3	I	507	ASN
3	I	549	ASN
3	I	560	GLN
3	I	593	ASN
3	I	616	GLN
3	I	703	ASN
3	I	709	HIS
3	I	717	GLN
3	I	724	GLN
3	I	727	GLN
3	I	737	ASN
3	I	744	GLN
3	I	756	GLN
3	I	762	GLN
3	I	824	ASN
3	I	845	ASN
3	I	917	GLN
3	I	973	GLN
3	I	1010	ASN
3	I	1014	ASN
3	I	1025	GLN
3	I	1046	GLN
3	I	1323	GLN
3	I	1359	GLN
3	I	1367	HIS
3	I	1393	GLN
4	J	28	GLN
4	J	29	GLN
4	J	37	ASN
4	J	59	ASN
1	K	63	HIS
1	K	91	ASN
1	K	156	HIS

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Mol	Chain	Res	Type
1	K	180	GLN
1	L	38	ASN
1	L	63	HIS
1	L	81	ASN
1	L	95	GLN
1	L	124	ASN
1	L	180	GLN
1	L	213	GLN
2	M	22	GLN
2	M	31	GLN
2	M	41	ASN
2	M	91	GLN
2	M	102	HIS
2	M	139	GLN
2	M	219	GLN
2	M	327	HIS
2	M	343	GLN
2	M	374	ASN
2	M	390	GLN
2	M	448	ASN
2	M	498	GLN
2	M	563	ASN
2	M	575	GLN
2	M	609	ASN
2	M	633	GLN
2	M	639	GLN
2	M	670	GLN
2	M	829	GLN
2	M	834	GLN
2	M	841	ASN
2	M	860	HIS
2	M	872	ASN
2	M	881	ASN
2	M	884	GLN
2	M	889	HIS
2	M	899	GLN
2	M	1026	GLN
2	M	1030	GLN
2	M	1100	GLN
2	M	1107	ASN
3	N	66	GLN
3	N	143	ASN

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Mol	Chain	Res	Type
3	N	166	GLN
3	N	189	GLN
3	N	442	ASN
3	N	462	GLN
3	N	463	GLN
3	N	507	ASN
3	N	549	ASN
3	N	616	GLN
3	N	703	ASN
3	N	709	HIS
3	N	727	GLN
3	N	729	HIS
3	N	744	GLN
3	N	762	GLN
3	N	816	HIS
3	N	824	ASN
3	N	973	GLN
3	N	976	GLN
3	N	1025	GLN
3	N	1034	GLN
3	N	1116	ASN
3	N	1227	GLN
3	N	1323	GLN
3	N	1359	GLN
3	N	1441	GLN
4	O	33	HIS
4	O	37	ASN
4	O	59	ASN
4	O	86	GLN
7	X	17	GLN
7	X	27	GLN
7	Y	17	GLN
7	Y	27	GLN
7	Y	53	GLN
7	Z	17	GLN
7	Z	27	GLN
7	Z	34	GLN
7	Z	132	HIS

5.3.3 RNA ⓘ

Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
6	Q	6/33 (18%)	0	0

There are no RNA backbone outliers to report.

There are no RNA pucker outliers to report.

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

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

5.5 Carbohydrates [i](#)

There are no carbohydrates in this entry.

5.6 Ligand geometry [i](#)

Of 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 [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

6 Fit of model and data ⓘ

6.1 Protein, DNA and RNA chains ⓘ

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

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
1	A	223/315 (70%)	-0.26	1 (0%) 93 90	81, 153, 225, 265	0
1	B	223/315 (70%)	-0.27	0 100 100	97, 154, 223, 265	0
1	F	222/315 (70%)	-0.33	0 100 100	84, 150, 216, 265	0
1	G	223/315 (70%)	-0.31	0 100 100	85, 150, 216, 248	0
1	K	222/315 (70%)	-0.02	1 (0%) 91 88	110, 167, 229, 262	0
1	L	223/315 (70%)	-0.19	0 100 100	103, 164, 222, 265	0
2	C	1106/1119 (98%)	-0.14	24 (2%) 65 55	70, 158, 243, 265	0
2	H	1103/1119 (98%)	-0.13	31 (2%) 56 45	73, 155, 251, 267	0
2	M	1105/1119 (98%)	-0.04	36 (3%) 50 38	79, 166, 255, 265	0
3	D	1349/1524 (88%)	-0.02	53 (3%) 43 33	74, 171, 259, 267	0
3	I	1289/1524 (84%)	-0.01	67 (5%) 31 23	70, 173, 259, 267	0
3	N	1351/1524 (88%)	-0.03	57 (4%) 40 31	76, 167, 254, 267	0
4	E	93/99 (93%)	0.04	2 (2%) 65 55	114, 183, 262, 265	0
4	J	92/99 (92%)	-0.04	2 (2%) 65 55	92, 176, 254, 265	0
4	O	93/99 (93%)	-0.01	4 (4%) 39 29	99, 173, 246, 265	0
5	P	6/27 (22%)	1.87	3 (50%) 0 1	198, 198, 198, 198	0
6	Q	7/33 (21%)	2.65	4 (57%) 0 1	188, 198, 198, 198	0
7	X	152/156 (97%)	0.20	5 (3%) 50 38	105, 187, 241, 267	0
7	Y	152/156 (97%)	0.15	4 (2%) 59 48	99, 186, 246, 267	0
7	Z	152/156 (97%)	-0.03	3 (1%) 68 58	109, 171, 248, 267	0
All	All	9386/10644 (88%)	-0.07	297 (3%) 51 39	70, 166, 252, 267	0

All (297) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
2	H	763	GLY	6.9
2	H	765	SER	6.4
2	M	721	ARG	6.0
3	D	801	GLY	5.8
2	H	764	GLU	5.7
3	I	202	VAL	5.5
2	H	778	PHE	5.4
4	E	56	ASP	5.3
2	H	616	GLU	5.1
3	I	191	LEU	5.1
3	N	57	GLU	5.0
3	D	77	GLY	4.8
2	M	269	LEU	4.6
3	I	67	ARG	4.5
4	E	57	ASP	4.5
2	M	785	VAL	4.4
3	D	420	VAL	4.4
2	H	757	GLY	4.4
3	N	59	ALA	4.4
3	N	65	ARG	4.3
3	D	65	ARG	4.3
3	N	165	LYS	4.3
3	N	211	VAL	4.2
6	Q	4	G	4.2
3	N	433	GLY	4.1
2	H	762	LYS	4.1
3	D	67	ARG	4.1
3	I	182	GLY	4.1
2	C	780	GLU	4.0
4	O	56	ASP	4.0
3	I	66	GLN	3.9
3	I	177	ALA	3.9
2	C	785	VAL	3.9
3	I	49	ILE	3.9
7	X	156	GLY	3.8
2	M	180	GLY	3.7
2	C	776	SER	3.7
3	D	397	LYS	3.6
2	C	270	GLY	3.6
2	H	775	ARG	3.6
3	I	50	PHE	3.6
2	C	775	ARG	3.5
3	I	39	PRO	3.5

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Mol	Chain	Res	Type	RSRZ
3	I	206	ARG	3.5
3	D	60	CYS	3.5
3	I	425	GLY	3.5
6	Q	6	G	3.5
6	Q	5	C	3.5
3	N	75	ARG	3.4
3	N	58	CYS	3.4
3	N	60	CYS	3.4
2	M	759	THR	3.3
3	I	174	GLY	3.3
3	I	171	LEU	3.3
3	N	39	PRO	3.3
3	D	58	CYS	3.3
3	N	63	TYR	3.3
3	N	72	VAL	3.3
2	H	270	GLY	3.3
3	N	82	LYS	3.2
3	I	399	ARG	3.2
3	D	54	LYS	3.2
3	I	46	ASP	3.2
3	D	407	VAL	3.2
3	D	191	LEU	3.2
3	D	1292	VAL	3.2
2	H	807	ARG	3.2
2	M	783	ARG	3.2
4	J	33	HIS	3.1
2	M	757	GLY	3.1
2	C	786	LYS	3.1
3	N	347	VAL	3.1
2	H	814	GLU	3.1
2	M	248	PRO	3.1
3	N	360	ARG	3.1
2	M	713	ARG	3.1
2	C	770	GLU	3.1
3	N	189	GLN	3.1
3	I	445	ARG	3.1
3	N	1301	LYS	3.1
3	I	1414	PRO	3.1
2	H	779	GLY	3.0
3	D	80	VAL	3.0
3	I	73	CYS	3.0
3	I	666	ILE	3.0

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Mol	Chain	Res	Type	RSRZ
3	D	78	VAL	3.0
3	D	1495	ILE	3.0
3	I	161	LEU	3.0
3	I	204	LEU	3.0
2	H	781	LYS	3.0
3	N	70	GLY	3.0
2	M	782	ALA	2.9
2	H	422	ARG	2.9
3	I	1183	ILE	2.9
3	I	52	PRO	2.9
3	N	188	GLY	2.9
2	C	781	LYS	2.9
3	D	61	GLY	2.9
3	N	77	GLY	2.9
3	I	192	ALA	2.9
3	N	1294	VAL	2.9
3	I	176	ASP	2.9
2	C	777	ILE	2.9
2	C	268	ASP	2.9
3	N	1304	LYS	2.9
3	I	190	GLU	2.9
3	N	1319	VAL	2.8
3	D	85	VAL	2.8
2	H	756	VAL	2.8
6	Q	9	G	2.8
3	N	61	GLY	2.8
3	N	64	LYS	2.8
3	I	57	GLU	2.8
4	O	57	ASP	2.8
3	I	203	ALA	2.8
7	Y	91	LEU	2.8
2	C	760	SER	2.8
3	D	429	SER	2.8
3	D	73	CYS	2.8
2	M	266	ARG	2.8
3	I	1304	LYS	2.7
3	I	86	ARG	2.7
2	C	783	ARG	2.7
3	N	421	LEU	2.7
3	D	1497	GLU	2.7
2	H	168	ARG	2.7
2	M	711	GLU	2.7

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Mol	Chain	Res	Type	RSRZ
3	N	1407	LEU	2.7
2	M	533	ASP	2.7
3	I	56	TYR	2.7
3	I	68	PHE	2.7
3	I	1303	TYR	2.7
7	Z	150	ARG	2.7
2	M	270	GLY	2.7
3	D	340	THR	2.7
3	N	78	VAL	2.7
3	D	1303	TYR	2.6
3	I	80	VAL	2.6
3	D	445	ARG	2.6
2	H	772	ARG	2.6
3	I	432	TYR	2.6
3	D	182	GLY	2.6
3	D	64	LYS	2.6
5	P	22	DC	2.6
2	H	417	GLY	2.6
3	I	58	CYS	2.6
3	N	73	CYS	2.6
7	Y	104	VAL	2.6
3	D	55	ASP	2.6
3	D	59	ALA	2.6
2	C	771	GLU	2.6
3	D	436	GLU	2.6
2	C	820	ARG	2.6
3	I	81	THR	2.6
3	I	446	VAL	2.6
3	N	76	CYS	2.6
3	I	31	THR	2.6
2	M	720	GLU	2.6
3	N	210	ARG	2.6
2	H	780	GLU	2.6
3	I	193	PRO	2.5
3	D	72	VAL	2.5
3	D	66	GLN	2.5
3	N	2	LYS	2.5
3	D	81	THR	2.5
4	O	39	VAL	2.5
2	H	758	ARG	2.5
3	N	79	GLU	2.5
2	C	808	ARG	2.5

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Mol	Chain	Res	Type	RSRZ
2	H	766	GLU	2.5
3	N	209	ARG	2.5
3	N	1502	ALA	2.5
7	Y	129	LEU	2.5
2	M	806	LEU	2.5
3	D	1304	LYS	2.5
3	D	430	ASP	2.5
3	I	32	ILE	2.4
2	H	783	ARG	2.4
3	D	424	GLY	2.4
3	I	1499	ARG	2.4
3	D	1302	GLU	2.4
2	H	248	PRO	2.4
3	D	185	VAL	2.4
3	D	76	CYS	2.4
4	O	38	THR	2.4
1	K	87	VAL	2.4
3	N	203	ALA	2.4
3	N	36	THR	2.4
3	D	1274	ILE	2.4
2	H	813	VAL	2.4
2	M	615	TYR	2.4
2	M	769	PRO	2.4
2	M	781	LYS	2.4
3	N	62	LYS	2.4
3	N	71	LYS	2.4
3	N	212	ARG	2.4
2	M	293	PHE	2.4
2	C	251	ASP	2.4
3	N	357	GLU	2.4
3	N	35	ARG	2.4
2	H	712	ALA	2.4
3	I	1302	GLU	2.4
2	H	268	ASP	2.3
3	I	1398	TRP	2.3
3	N	83	SER	2.3
3	D	415	VAL	2.3
3	D	212	ARG	2.3
3	I	181	ASP	2.3
3	N	481	MET	2.3
2	H	365	ASP	2.3
3	N	1276	GLU	2.3

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Mol	Chain	Res	Type	RSRZ
2	H	711	GLU	2.3
2	M	472	ARG	2.3
2	M	617	ASP	2.3
2	H	367	LEU	2.3
3	I	396	VAL	2.3
2	M	770	GLU	2.3
3	I	1412	LYS	2.3
2	M	268	ASP	2.3
2	C	720	GLU	2.3
3	N	160	GLU	2.3
7	Y	90	GLU	2.3
3	N	191	LEU	2.3
2	C	269	LEU	2.2
7	X	140	LEU	2.2
2	M	771	GLU	2.2
3	I	1301	LYS	2.2
3	I	51	GLY	2.2
3	D	57	GLU	2.2
3	N	448	GLU	2.2
2	H	777	ILE	2.2
3	I	71	LYS	2.2
3	I	55	ASP	2.2
3	I	1408	ILE	2.2
2	C	1080	SER	2.2
2	M	482	GLU	2.2
3	I	72	VAL	2.2
3	I	431	VAL	2.2
4	J	93	TYR	2.2
3	D	398	ALA	2.2
3	N	33	ASN	2.2
5	P	24	DG	2.2
2	C	614	ARG	2.2
3	D	82	LYS	2.2
3	I	184	GLU	2.2
3	N	68	PHE	2.2
3	I	201	GLY	2.2
3	I	1292	VAL	2.2
2	M	762	LYS	2.2
3	N	387	LEU	2.2
3	D	446	VAL	2.2
3	N	161	LEU	2.2
2	M	778	PHE	2.2

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Mol	Chain	Res	Type	RSRZ
3	I	1407	LEU	2.2
3	N	1295	GLU	2.1
3	I	400	VAL	2.1
3	I	189	GLN	2.1
2	M	774	LEU	2.1
2	M	374	ASN	2.1
2	M	765	SER	2.1
3	D	1319	VAL	2.1
3	I	187	LYS	2.1
7	Z	140	LEU	2.1
2	M	760	SER	2.1
3	D	62	LYS	2.1
3	D	74	GLU	2.1
3	D	1305	LEU	2.1
3	N	1292	VAL	2.1
3	I	1501	GLU	2.1
2	M	813	VAL	2.1
7	X	110	ALA	2.1
7	Z	125	MET	2.1
3	I	811	GLU	2.1
2	M	532	MET	2.1
5	P	19	DC	2.1
3	N	81	THR	2.1
2	C	1112	PHE	2.1
3	D	355	VAL	2.1
2	H	420	ARG	2.1
2	C	712	ALA	2.1
2	M	768	THR	2.1
3	D	357	GLU	2.1
3	I	61	GLY	2.1
2	M	1080	SER	2.1
3	D	421	LEU	2.0
3	N	798	GLU	2.0
3	D	48	ARG	2.0
3	D	433	GLY	2.0
1	A	204	SER	2.0
2	C	762	LYS	2.0
3	I	65	ARG	2.0
7	X	139	SER	2.0
2	C	778	PHE	2.0
3	I	78	VAL	2.0
3	I	38	LYS	2.0

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Mol	Chain	Res	Type	RSRZ
7	X	141	ASP	2.0
3	N	67	ARG	2.0

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

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

6.3 Carbohydrates [i](#)

There are no carbohydrates in this entry.

6.4 Ligands [i](#)

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

Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(Å ²)	Q<0.9
8	ZN	N	2003	1/1	0.98	0.08	-1.07	94,94,94,94	0
8	ZN	D	2001	1/1	0.97	0.06	-1.17	94,94,94,94	0
8	ZN	I	2002	1/1	0.99	0.07	-1.19	94,94,94,94	0
9	MG	N	2006	1/1	0.90	0.48	-	94,94,94,94	0
9	MG	I	2005	1/1	0.92	0.36	-	94,94,94,94	0
9	MG	D	2004	1/1	0.97	0.08	-	94,94,94,94	0

6.5 Other polymers [i](#)

There are no such residues in this entry.