



# Full wwPDB X-ray Structure Validation Report ⓘ

Jun 16, 2024 – 10:31 AM EDT

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

This is a Full wwPDB X-ray Structure Validation Report for a publicly released PDB entry.

We welcome your comments at [validation@mail.wwpdb.org](mailto:validation@mail.wwpdb.org)

A user guide is available at

<https://www.wwpdb.org/validation/2017/XrayValidationReportHelp>

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

<http://www.wwpdb.org/validation/2017/FAQs#types>.

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

MolProbity : 4.02b-467  
Xtriage (Phenix) : 1.13  
EDS : 2.37.1  
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)  
Refmac : 5.8.0158  
CCP4 : 7.0.044 (Gargrove)  
Ideal geometry (proteins) : Engh & Huber (2001)  
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)  
Validation Pipeline (wwPDB-VP) : 2.37.1

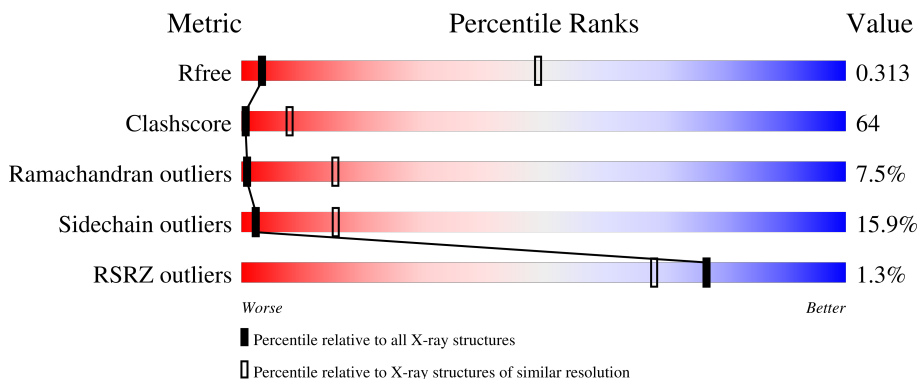
# 1 Overall quality at a glance i

The following experimental techniques were used to determine the structure:

*X-RAY DIFFRACTION*

The reported resolution of this entry is 4.40 Å.

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




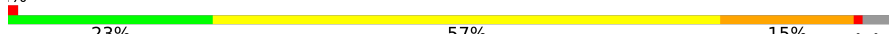
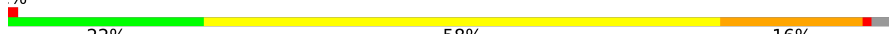
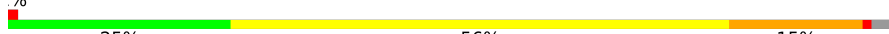



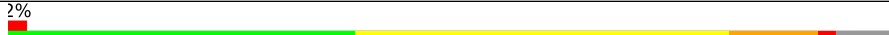
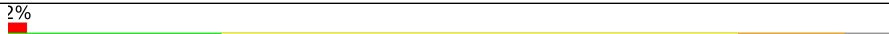

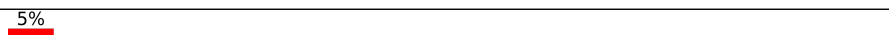

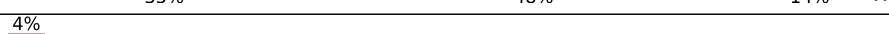
Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
$R_{free}$	130704	1043 (5.00-3.80)
Clashscore	141614	1111 (5.00-3.80)
Ramachandran outliers	138981	1059 (5.00-3.80)
Sidechain outliers	138945	1041 (5.00-3.80)
RSRZ outliers	127900	1095 (5.08-3.70)

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 of the lower bar indicate the fraction of residues that contain outliers for  $\geq 3$ , 2, 1 and 0 types of geometric quality criteria respectively. A grey segment represents the fraction of residues that are not modelled. The numeric value for each fraction is indicated below the corresponding segment, with a dot representing fractions  $\leq 5\%$ . The upper red bar (where present) indicates the fraction of residues that have poor fit to the electron density. The numeric value is given above the bar.

Mol	Chain	Length	Quality of chain
1	A	315	<div style="display: flex; align-items: center;"> <div style="width: 10%; height: 10px; background-color: red; margin-right: 5px;"></div> <div style="width: 17%; height: 10px; background-color: green; margin-right: 5px;"></div> <div style="width: 43%; height: 10px; background-color: yellow; margin-right: 5px;"></div> <div style="width: 10%; height: 10px; background-color: orange; margin-right: 5px;"></div> <div style="width: 29%; height: 10px; background-color: grey;"></div> </div> <p style="font-size: small; margin-top: 5px;">% 17% 43% 10% 29%</p>
1	B	315	<div style="display: flex; align-items: center;"> <div style="width: 17%; height: 10px; background-color: green; margin-right: 5px;"></div> <div style="width: 44%; height: 10px; background-color: yellow; margin-right: 5px;"></div> <div style="width: 10%; height: 10px; background-color: orange; margin-right: 5px;"></div> <div style="width: 29%; height: 10px; background-color: grey;"></div> </div> <p style="font-size: small; margin-top: 5px;">17% 44% 10% 29%</p>
1	F	315	<div style="display: flex; align-items: center;"> <div style="width: 19%; height: 10px; background-color: green; margin-right: 5px;"></div> <div style="width: 39%; height: 10px; background-color: yellow; margin-right: 5px;"></div> <div style="width: 12%; height: 10px; background-color: orange; margin-right: 5px;"></div> <div style="width: 29%; height: 10px; background-color: grey;"></div> </div> <p style="font-size: small; margin-top: 5px;">19% 39% 12% 29%</p>
1	G	315	<div style="display: flex; align-items: center;"> <div style="width: 20%; height: 10px; background-color: green; margin-right: 5px;"></div> <div style="width: 39%; height: 10px; background-color: yellow; margin-right: 5px;"></div> <div style="width: 11%; height: 10px; background-color: orange; margin-right: 5px;"></div> <div style="width: 29%; height: 10px; background-color: grey;"></div> </div> <p style="font-size: small; margin-top: 5px;">20% 39% 11% 29%</p>
1	K	315	<div style="display: flex; align-items: center;"> <div style="width: 10%; height: 10px; background-color: red; margin-right: 5px;"></div> <div style="width: 19%; height: 10px; background-color: green; margin-right: 5px;"></div> <div style="width: 43%; height: 10px; background-color: yellow; margin-right: 5px;"></div> <div style="width: 10%; height: 10px; background-color: orange; margin-right: 5px;"></div> <div style="width: 29%; height: 10px; background-color: grey;"></div> </div> <p style="font-size: small; margin-top: 5px;">% 19% 43% 10% 29%</p>

*Continued on next page...*

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

## 2 Entry composition

There are 7 unique types of molecules in this entry. The entry contains 73369 atoms, of which 0 are hydrogens and 0 are deuteriums.

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

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

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

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

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

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

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

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

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

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

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

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

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

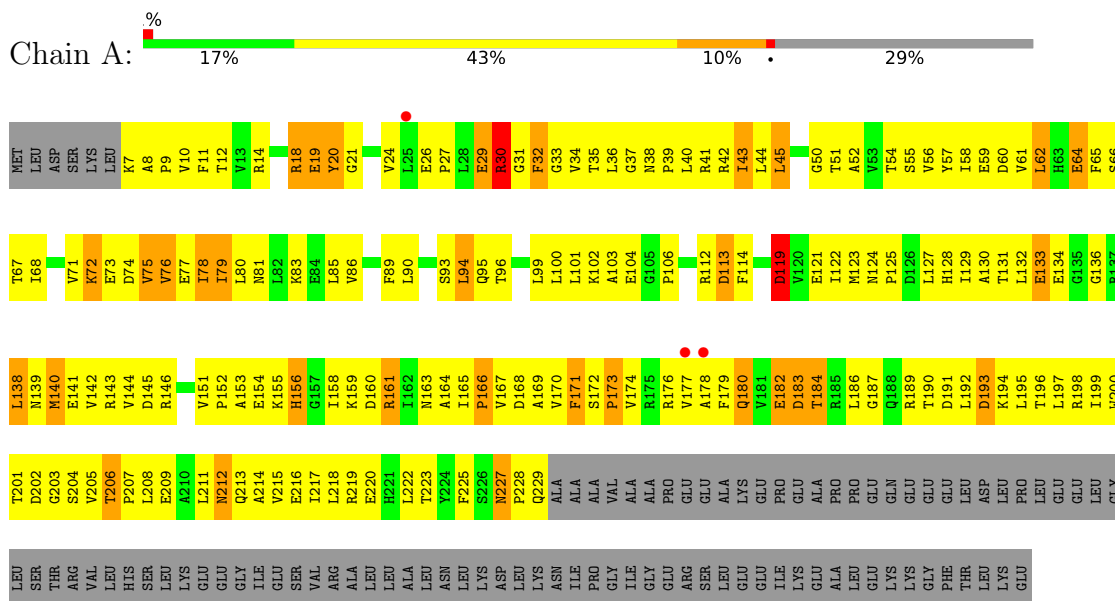
- Molecule 7 is MAGNESIUM ION (three-letter code: MG) (formula: Mg).

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

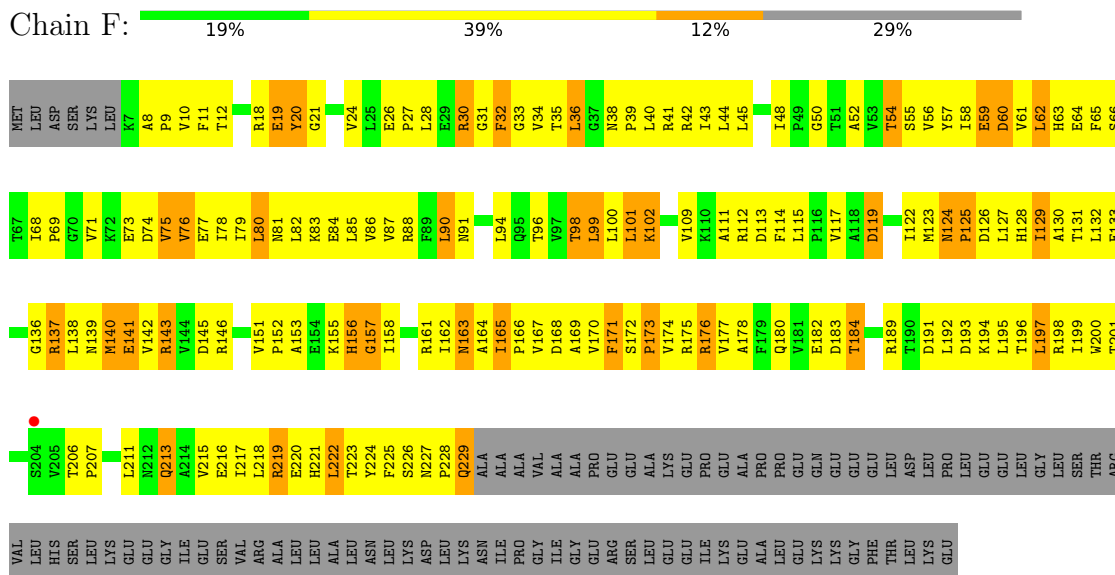
### 3 Residue-property plots [i](#)

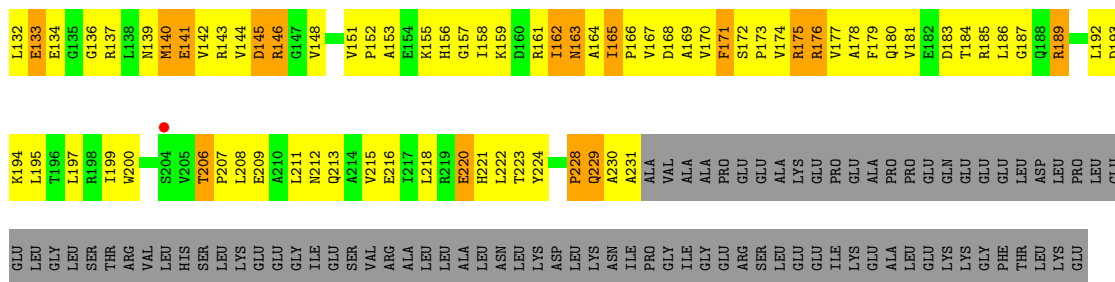
These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and electron density.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

- Molecule 1: DNA-directed RNA polymerase subunit alpha

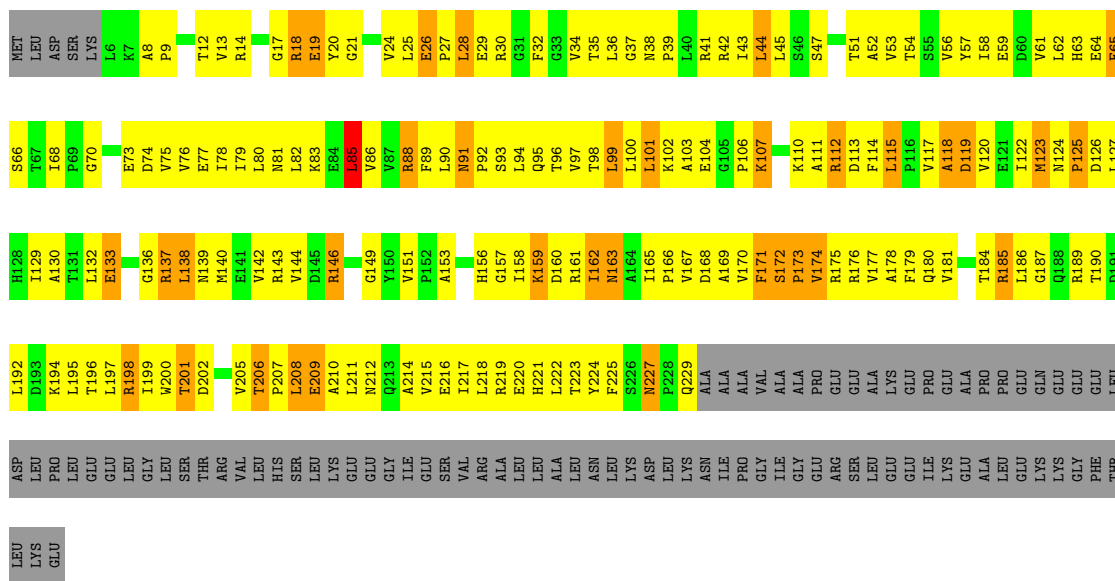
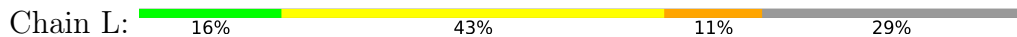


- Molecule 1: DNA-directed RNA polymerase subunit alpha

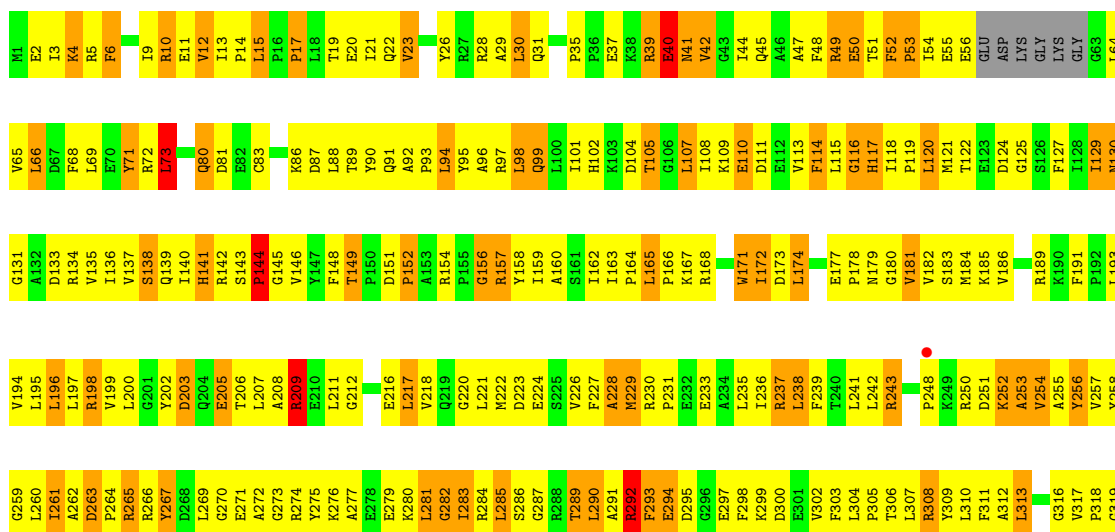




• Molecule 1: DNA-directed RNA polymerase subunit alpha



• Molecule 2: DNA-directed RNA polymerase subunit beta



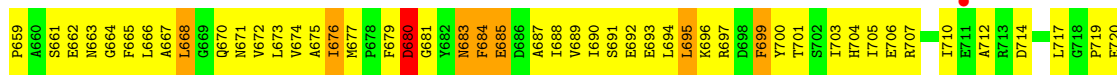
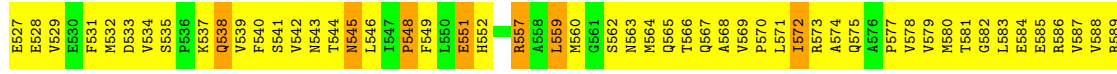
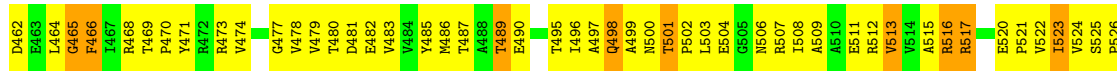
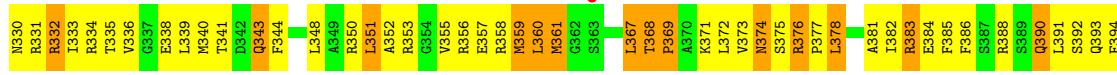
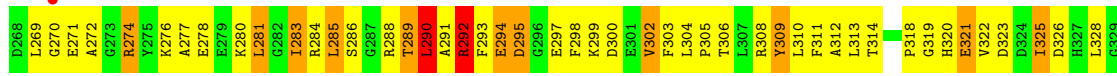
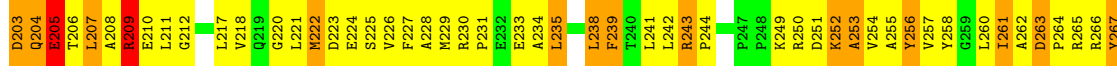
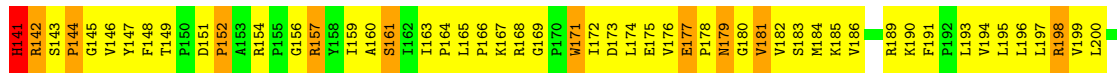
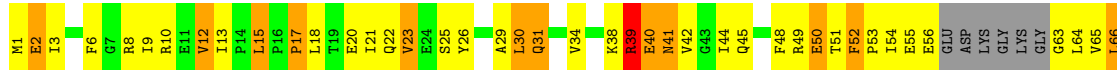




LYS	R134	R198	A262	I325	R388	A457	I523	E585	V649	E711	ARG	G836	G898	V973
GLY	V135	V199	D263	D326	S389	V461	V624	R686	R650	A712	SER	D637	Q899	R973
G63	L136	L200	P264	H327	Q390	R213	S525	V587	D653	R713	ILE	K838	R900	L974
L64	V137	G201	R265	L328	L391	D462	R213	V588	R654	R714	PHE	L839	R901	Y975
V65	S138	G329	R266	G329	S392	E463	E527	R689	L655	K715	GLY	A840	G902	D976
L66	S139	Y267	D203	N330	Q393	L464	E528	D590	L655	K716	GLU	M841	S903	G977
D67	I140	Q204	D268	R331	F394	G465	V529	S691	A656	P719	ALA	R842	P904	R978
F68	H141	E206	L269	R332	K395	F466	E530	L592	D657	E720	ALA	K846	I905	R979
L69	R142	T206	G270	I333	D396	L467	F531	A939	G658	R721	ARG	K846	F906	G980
E70	S143	A208	E271	R334	E397	R468	M532	A594	S661	I722	ASP	G847	G907	E981
R72	G145	A208	A272	T335	T398	T469	D533	L595	E662	R723	VAL	V848	G908	P982
L73	V146	R209	G273	V336	G337	P470	V534	V596	N663	T724	K786	A849	A909	I983
G74	V147	E210	R274	E338	S402	Y471	S835	A597	G664	D725	T788	A850	K910	E984
E75	F148	L211	Y275	E339	S403	R472	F536	A598	G665	R726	T789	A851	E911	G885
P76	T149	G212	K276	L339	L404	R473	R537	E599	F666	I727	S789	R852	P912	P986
E76	T149	A213	A277	M340	R405	V474	M538	E599	L666	P727	L790	L853	E913	I987
P76	P150	Y214	E278	T341	H406	R474	V539	D600	A667	H728	R791	P854	E914	V988
Q80	D151	Y214	E279	K407	K407	G475	F540	G601	G668	E731	P793	E855	E915	V989
D81	P152	L217	K280	Q343	R408	G477	S541	V603	G669	A732	F794	D857	E916	G990
L88	R153	V218	L281	Q344	R409	V478	V542	A604	Q670	A733	R794	M858	L917	Q991
T89	A154	Q219	G282	R345	L410	V478	V542	K605	M671	A734	R794	M858	L918	M992
R90	P155	G220	G282	R345	L410	V478	V542	K605	M671	A734	R794	M858	L918	M992
Y90	G156	G220	R283	S411	T480	T480	T544	V606	V672	L734	E796	P859	G927	F993
Q91	R157	M222	R284	G347	A412	D481	M545	D607	L673	R735	G797	H860	R928	I994
A92	Y158	M222	R285	L348	L413	E482	L546	G608	V674	D736	G798	H861	R929	M995
P93	L159	D223	S286	A349	G414	V483	I547	N609	A675	L737	I799	P862	E925	K996
L94	L160	E224	G287	R350	P415	V484	F548	R610	I676	E740	V800	D863	Y925	L997
R97	S161	S225	R288	L351	G416	V485	F549	G611	M677	E741	V801	G864	F926	Y998
L98	I162	F227	T289	A352	G417	V486	L550	V612	G678	G741	R802	T865	G927	H999
Q99	I163	A228	L290	R353	L418	T487	E551	V613	F679	V742	T803	P866	K928	M1000
L100	L164	M229	A291	G354	T419	A488	H552	R614	D680	V743	R804	P867	R929	V1001
I101	L165	R230	A291	V355	T419	A488	H552	R614	D680	V743	R804	P867	R929	V1001
D104	K167	R230	F293	R356	T419	A488	H552	R614	D680	V743	R804	P867	R929	V1001
T105	G168	R230	F293	R356	T419	A488	H552	R614	D680	V743	R804	P867	R929	V1001
G106	G169	R230	F293	R356	T419	A488	H552	R614	D680	V743	R804	P867	R929	V1001
L107	P170	R230	F293	R356	T419	A488	H552	R614	D680	V743	R804	P867	R929	V1001
L108	M171	R230	F293	R356	T419	A488	H552	R614	D680	V743	R804	P867	R929	V1001
K109	D172	R230	F293	R356	T419	A488	H552	R614	D680	V743	R804	P867	R929	V1001
E110	D173	R230	F293	R356	T419	A488	H552	R614	D680	V743	R804	P867	R929	V1001
D111	L174	R230	F293	R356	T419	A488	H552	R614	D680	V743	R804	P867	R929	V1001
E112	E175	R230	F293	R356	T419	A488	H552	R614	D680	V743	R804	P867	R929	V1001
V113	V176	R230	F293	R356	T419	A488	H552	R614	D680	V743	R804	P867	R929	V1001
F114	E177	R230	F293	R356	T419	A488	H552	R614	D680	V743	R804	P867	R929	V1001
G116	P178	R230	F293	R356	T419	A488	H552	R614	D680	V743	R804	P867	R929	V1001
H117	M179	R230	F293	R356	T419	A488	H552	R614	D680	V743	R804	P867	R929	V1001
I118	G180	R230	F293	R356	T419	A488	H552	R614	D680	V743	R804	P867	R929	V1001
P119	V181	R230	F293	R356	T419	A488	H552	R614	D680	V743	R804	P867	R929	V1001
L120	D251	R230	F293	R356	T419	A488	H552	R614	D680	V743	R804	P867	R929	V1001
D124	K185	R230	F293	R356	T419	A488	H552	R614	D680	V743	R804	P867	R929	V1001
G125	A253	R230	F293	R356	T419	A488	H552	R614	D680	V743	R804	P867	R929	V1001
S126	V317	R230	F293	R356	T419	A488	H552	R614	D680	V743	R804	P867	R929	V1001
I129	V254	R230	F293	R356	T419	A488	H552	R614	D680	V743	R804	P867	R929	V1001
A132	R189	R230	F293	R356	T419	A488	H552	R614	D680	V743	R804	P867	R929	V1001
D133	L193	R230	F293	R356	T419	A488	H552	R614	D680	V743	R804	P867	R929	V1001
	V194	R230	F293	R356	T419	A488	H552	R614	D680	V743	R804	P867	R929	V1001
	L195	R230	F293	R356	T419	A488	H552	R614	D680	V743	R804	P867	R929	V1001
	L196	R230	F293	R356	T419	A488	H552	R614	D680	V743	R804	P867	R929	V1001
	L197	R230	F293	R356	T419	A488	H552	R614	D680	V743	R804	P867	R929	V1001
	I261	R230	F293	R356	T419	A488	H552	R614	D680	V743	R804	P867	R929	V1001
	A262	R230	F293	R356	T419	A488	H552	R614	D680	V743	R804	P867	R929	V1001
	D263	R230	F293	R356	T419	A488	H552	R614	D680	V743	R804	P867	R929	V1001
	P264	R230	F293	R356	T419	A488	H552	R614	D680	V743	R804	P867	R929	V1001
	R265	R230	F293	R356	T419	A488	H552	R614	D680	V743	R804	P867	R929	V1001
	G201	R230	F293	R356	T419	A488	H552	R614	D680	V743	R804	P867	R929	V1001
	G329	R230	F293	R356	T419	A488	H552	R614	D680	V743	R804	P867	R929	V1001
	Y267	R230	F293	R356	T419	A488	H552	R614	D680	V743	R804	P867	R929	V1001
	D268	R230	F293	R356	T419	A488	H552	R614	D680	V743	R804	P867	R929	V1001
	L269	R230	F293	R356	T419	A488	H552	R614	D680	V743	R804	P867	R929	V1001
	G270	R230	F293	R356	T419	A488	H552	R614	D680	V743	R804	P867	R929	V1001
	E206	R230	F293	R356	T419	A488	H552	R614	D680	V743	R804	P867	R929	V1001
	S143	R230	F293	R356	T419	A488	H552	R614	D680	V743	R804	P867	R929	V1001
	A208	R230	F293	R356	T419	A488	H552	R614	D680	V743	R804	P867	R929	V1001
	A272	R230	F293	R356	T419	A488	H552	R614	D680	V743	R804	P867	R929	V1001
	G145	R230	F293	R356	T419	A488	H552	R614	D680	V743	R804	P867	R929	V1001
	V146	R230	F293	R356	T419	A488	H552	R614	D680	V743	R804	P867	R929	V1001
	V147	R230	F293	R356	T419	A488	H552	R614	D680	V743	R804	P867	R929	V1001
	F148	R230	F293	R356	T419	A488	H552	R614	D680	V743	R804	P867	R929	V1001
	T149	R230	F293	R356	T419	A488	H552	R614	D680	V743	R804	P867	R929	V1001
	P150	R230	F293	R356	T419	A488	H552	R614	D680	V743	R804	P867	R929	V1001
	D151	R230	F293	R356	T419	A488	H552	R614	D680	V743	R804	P867	R929	V1001
	P152	R230	F293	R356	T419	A488	H552	R614	D680	V743	R804	P867	R929	V1001
	R153	R230	F293	R356	T419	A488	H552	R614	D680	V743	R804	P867	R929	V1001
	A154	R230	F293	R356	T419	A488	H552	R614	D680	V743	R804	P867	R929	V1001
	P155	R230	F293	R356	T419	A488	H552	R614	D680	V743	R804	P867	R929	V1001
	G156	R230	F293	R356	T419	A488	H552	R614	D680	V743	R804	P867	R929	V1001
	R157	R230	F293	R356	T419	A488	H552	R614	D680	V743	R804	P867	R929	V1001
	L158	R230	F293	R356	T419	A488	H552	R614	D680	V743	R804	P867	R929	V1001
	L159	R230	F293	R356	T419	A488	H552	R614	D680	V743	R804	P867	R929	V1001
	A160	R230	F293	R356	T419	A488	H552	R614	D680	V743	R804	P867	R929	V1001
	S161	R230	F293	R356	T419	A488	H552	R614	D680	V743	R804	P867	R929	V1001
	V226	R230	F293	R356	T419	A488	H552	R614	D680	V743	R804	P867	R929	V1001
	F227	R230	F293	R356	T419	A488	H552	R614	D680	V743	R804	P867	R929	V1001
	I162	R230	F293	R356	T419	A488	H552	R614	D680	V743	R804	P867	R929	V1001
	I163	R230	F293	R356	T419	A488	H552	R614	D680	V743	R804	P867	R929	V1001
	A228	R230	F293	R356	T419	A488	H552	R614	D680	V743	R804	P867	R929	V1001
	A291	R230	F293	R356	T419	A488	H552	R614	D680	V743	R804	P867	R929	V1001
	M229	R230	F293	R356	T419	A488	H552	R614	D680	V743	R804	P867	R929	V1001
	R230	R230	F293	R356	T419	A488	H552	R614	D680	V743	R804	P867	R929	V1001
	R230	R230	F293	R356	T419	A488	H552	R614	D680	V743	R804	P867	R929	V1001</



● Molecule 2: DNA-directed RNA polymerase subunit beta





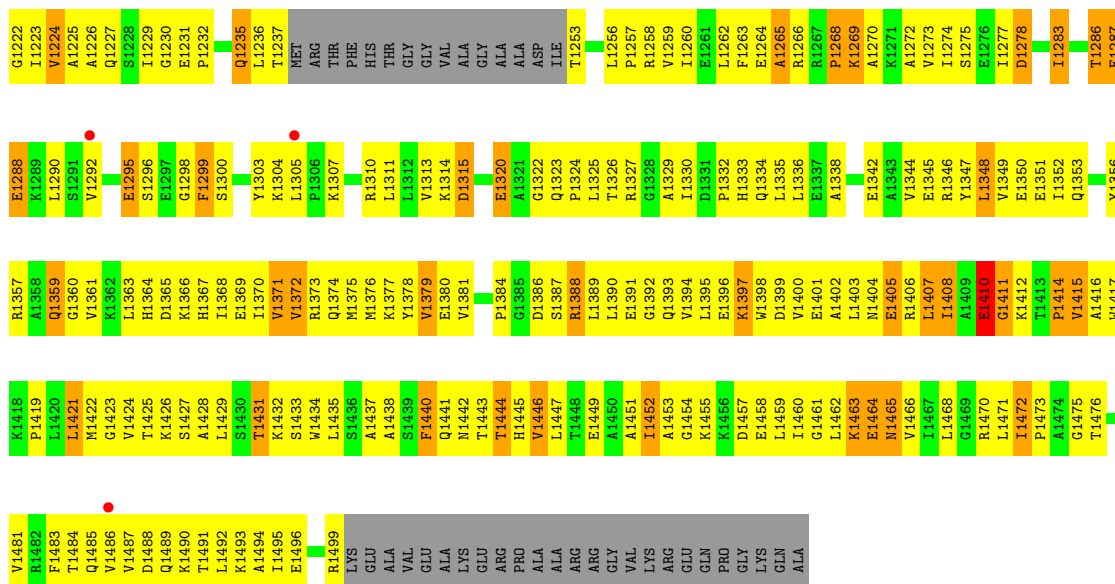
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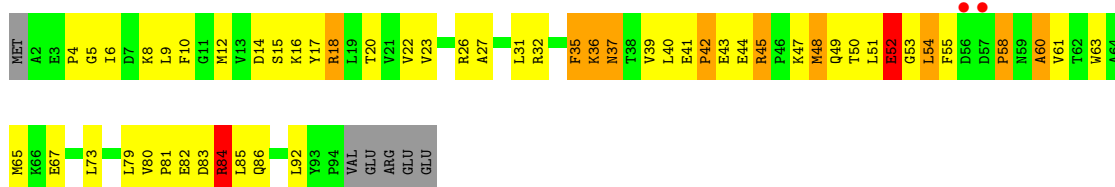


L1160	L1161	E1162	G1163	R1164	Y1165	L1166	S1167	M1168	D1169	D1170	H1171	H1172	L1173	L1174	L1175	K1176	A1177	A1178	E1179	E1182	I1183	V1186	F1187	V1188	R1189	S1190	F1191	L1192	T1193	L1194	Q1195	T1196	R1197	Y1198	G1199	V1200	Q1201	Q1202	K1203	C1204	Y1205	G1206	Y1207	D1208	L1209	S1210	M1211	A1212	R1213	P1214	V1215	S1216	I1217	G1218	E1219	A1220	V1221																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
L1098	V1099	D1100	H1101	H1102	H1103	E1104	L1105	V1106	R1107	R1108	E1109	A1110	D1111	G1112	G1113	T1114	T1115	M1116	Y1117	I1118	S1119	V1120	P1121	L1122	F1123	P1124	P1125	S1126	E1127	V1128	L1129	R1130	S1131	L1132	R1133	L1134	R1135	K1136	R1137	I1140	E1141	L1144	Y1145	G1146	R1147	V1148	L1149	A1150	R1151	E1152	V1153	V1154	S1155	V1156	L1157	G1158	E1159	V1160	R1161																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
L1029	G1030	M1031	Q1034	I1035	R1036	Q1037	L1038	C1039	G1040	L1041	L1042	G1043	L1044	M1045	Q1046	Y1047	E1048	P1048	S1049	G1050	E1051	V1052	F1053	E1054	V1055	P1056	V1057	R1058	S1059	I1060	F1061	R1062	L1065	T1066	V1067	L1068	E1069	I1072	S1073	S1074	H1075	G1081	A1082	D1083	T1084	A1085	L1086	L1087	S1089	Y1091	G1092	A1093	M1023	S1026	G1027	A1028																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
L899	I900	R901	L902	R903	R904	P905	Q906	R907	R908	R909	S910	L911	K912	D913	L914	Y915	G916	M980	Q917	A918	F919	L920	R921	L922	G923	M924	E925	K926	T927	Q928	Q929	I929	L930	L931	P932	L934	K935	V936	Y937	G938	F939	T1004	F941	S942	V1007	M1010	Y1015	P1016	F1017	M1018	P1019	L1020	Y1021	V1022	M1023	S1026	G1027	A1028																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
L839	R840	Y841	T842	F843	A844	R845	F846	D847	E848	L849	L850	L851	A852	R853	L854	H855	G856	L857	R858	D859	L860	Q861	D862	R863	L864	R865	R866	R867	Y868	R869	G870	R871	L872	L873	T874	E875	R876	F877	R878	R879	L880	L881	F882	A883	L884	L885	V886	A887	E888	A889	R890	D891	D892	E893	A894	V895	L896	R897	E898																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
L778	A779	K780	P781	M782	S783	D784	L785	L786	L787	G788	L789	L792	H793	T794	V795	R796	K797	E798	K799	R800	L801	D802	G803	L804	R805	F806	R807	L808	L809	L810	L811	L812	L813	L814	A815	H816	E817	R818	C819	E820	V821	A822	L823	M824	A825	P826	K828	V829	A830	C831	R832	R833	E834	T834	S835	V836	R837	R838																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
G712	I713	Q714	A715	F716	Q717	P718	V719	L720	L721	E722	Q723	L728	H729	F730	L731	V732	C733	E734	A735	F736	N737	A738	D739	F740	D743	Q744	H745	H746	V747	H748	V749	P750	L751	S752	S753	F754	A755	E756	A757	E758	A759	R760	L761	Q762	M763	L764	S765	A766	H767	N768	L769	A770	P771	L772	M773	L774	L775	L776	L777	G778	E779	P777																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
P645	K646	R647	M648	A649	L650	B651	L652	P653	K654	P655	F656	L658	K659	A660	M661	N662	V663	A664	A665	A666	R667	R668	D669	L670	L671	E672	L673	L674	L675	L676	L677	E678	D679	L680	L681	L682	D683	L684	L685	L686	L687	L688	L689	L690	L691	L692	L693	L694	L695	L696	L697	L698	L699	L700	L701	L702	M703	R704	A705	P706	T707	L708	H709	R710	E711	G712	L713	L714	L715	L716	L717	L718	L719	L720	L721	L722	L723	L724	L725	L726	L727	L728	L729	L730	L731	L732	L733	L734	L735	L736	L737	L738	L739	L740	L741	L742	L743	L744	L745	L746	L747	L748	L749	L750	L751	L752	L753	L754	L755	L756	L757	L758	L759	L760	L761	L762	L763	L764	L765	L766	L767	L768	L769	L770	L771	L772	L773	L774	L775	L776	L777	L778	L779	L780	L781	L782	L783	L784	L785	L786	L787	L788	L789	L790	L791	L792	L793	L794	L795	L796	L797	L798	L799	L800	L801	L802	L803	L804	L805	L806	L807	L808	L809	L810	L811	L812	L813	L814	L815	L816	L817	L818	L819	L820	L821	L822	L823	L824	L825	L826	L827	L828	L829	L830	L831	L832	L833	L834	L835	L836	L837	L838	L839	L840	L841	L842	L843	L844	L845	L846	L847	L848	L849	L850	L851	L852	L853	L854	L855	L856	L857	L858	L859	L860	L861	L862	L863	L864	L865	L866	L867	L868	L869	L870	L871	L872	L873	L874	L875	L876	L877	L878	L879	L880	L881	L882	L883	L884	L885	L886	L887	L888	L889	L890	L891	L892	L893	L894	L895	L896	L897	L898	L899	L900	L901	L902	L903	L904	L905	L906	L907	L908	L909	L910	L911	L912	L913	L914	L915	L916	L917	L918	L919	L920	L921	L922	L923	L924	L925	L926	L927	L928	L929	L930	L931	L932	L933	L934	L935	L936	L937	L938	L939	L940	L941	L942	L943	L944	L945	L946	L947	L948	L949	L950	L951	L952	L953	L954	L955	L956	L957	L958	L959	L960	L961	L962	L963	L964	L965	L966	L967	L968	L969	L970	L971	L972	L973	L974	L975	L976	L977	L978	L979	L980	L981	L982	L983	L984	L985	L986	L987	L988	L989	L990	L991	L992	L993	L994	L995	L996	L997	L998	L999	L1000	L1001	L1002	L1003	L1004	L1005	L1006	L1007	L1008	L1009	L1010	L1011	L1012	L1013	L1014	L1015	L1016	L1017	L1018	L1019	L1020	L1021	L1022	L1023	L1024	L1025	L1026	L1027	L1028	L1029	L1030	L1031	L1032	L1033	L1034	L1035	L1036	L1037	L1038	L1039	L1040	L1041	L1042	L1043	L1044	L1045	L1046	L1047	L1048	L1049	L1050	L1051	L1052	L1053	L1054	L1055	L1056	L1057	L1058	L1059	L1060	L1061	L1062	L1063	L1064	L1065	L1066	L1067	L1068	L1069	L1070	L1071	L1072	L1073	L1074	L1075	L1076	L1077	L1078	L1079	L1080	L1081	L1082	L1083	L1084	L1085	L1086	L1087	L1088	L1089	L1090	L1091	L1092	L1093	L1094	L1095	L1096	L1097	L1098	L1099	L1100	L1101	L1102	L1103	L1104	L1105	L1106	L1107	L1108	L1109	L1110	L1111	L1112	L1113	L1114	L1115	L1116	L1117	L1118	L1119	L1120	L1121	L1122	L1123	L1124	L1125	L1126	L1127	L1128	L1129	L1130	L1131	L1132	L1133	L1134	L1135	L1136	L1137	L1138	L1139	L1140	L1141	L1142	L1143	L1144	L1145	L1146	L1147	L1148	L1149	L1150	L1151	L1152	L1153	L1154	L1155	L1156	L1157	L1158	L1159	L1160	L1161	L1162	L1163	L1164	L1165	L1166	L1167	L1168	L1169	L1170	L1171	L1172	L1173	L1174	L1175	L1176	L1177	L1178	L1179	L1180	L1181	L1182	L1183	L1184	L1185	L1186	L1187	L1188	L1189	L1190	L1191	L1192	L1193	L1194	L1195	L1196	L1197	L1198	L1199	L1200	L1201	L1202	L1203	L1204	L1205	L1206	L1207	L1208	L1209	L1210	L1211	L1212	L1213	L1214	L1215	L1216	L1217	L1218	L1219	L1220	L1221
E380	A381	E382	G383	V384	V385	H386	L387	H388	G201	P390	A391	S392	I393	L394	V395	V396	K397	Q462	R399	V400	Y401	L402	F403	E404	D405	L406	V407	E408	L409	G412	D413	R414	V415	A416	P417	V853	D419	V420	V355	P356	A422	D423	G424	G425	K426	V427	K428	S429	D430	V431	Y432	G433	R434	V435	E374	E375	L439	V440	I377	R441	N442																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
V443	V446	V447	E448	S449	Y450	D451	L452	D453	A454	R455	M456	G457	A458	E459	A460	V396	I461	Q462	Q463	L464	L465	K466	E467	L468	D469	L470	E471	A472	L473	E474	K475	E480	M481	K482	H483	P484	S485	R486	A487	R488	R489	R493	K494	R495	L496	V499	L503	D504	S505	G506	N507	R508	P509	E510	W511																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
M512	I513	L514	E515	V516	V517	P518	V519	D583	N584	P522	D523	L524	R525	P526	M527	V528	GLN	VAL	ASP	GLY	ARG	L600	PHE	ALA	TS37	S538	D539	L540	M541	D542	L543	Y544	R545	R546	L547	I548	M549	R550	N551	N552	R553	R488	L554	K555	K556	L557	L558	A559	Q560	G561	A562	P563	E564	I565	I566	I567	R568	M573	L574																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
Q575	E576	A577	V578	D579	A580	L581	L582	D583	N584	G585	R586	L587	G588	A589	P590	V591	P594	R598	P599	L600	R601	S602	L603	T604	D605	L606	L607	R613	Q616	M617	L618	L619	G620	K621	R622	V623	D624	E625	V626	G627	I631	V632	V633	G634	P635	Q636	L637	K638	A705	I566	H640	Q641	G642	G643	L644																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
P645	K646	R647	M648	A649	L650	B651	L652	P653	K654	P655	F656	L658	K659	A660	M661	N662	V663	A664	A665	A666	R667	R668	D669	L670	L671	E672	L673	L674	L675	L676	L677	E678	D679	L680	L681	L682	D683	L684	L685	L686	L687	L688	L689	L690	L691	L692	L693	L694	L695	L696	L697	L698	L699	L700	L701	L702	M703	R704	A705	P706	T707	L708	H709	R710	E711	G712	L713	L714	L715	L716	L717	L718	L719	L720	L721	L722	L723	L724	L725	L726	L727	L728	L729	L730	L731	L732	L733	L734	L735	L736	L737	L738	L739	L740	L741	L742	L743	L744	L745	L746	L747	L748	L749	L750	L751	L752	L753	L754	L755	L756	L757	L758	L759	L760	L761	L762	L763	L764	L765	L766	L767	L768	L769	L770	L771	L772	L773	L774	L775	L776	L777	L778	L779	L780	L781	L782	L783	L784	L785	L786	L787	L788	L789	L790	L791	L792	L793	L794	L795	L796	L797	L798	L799	L800	L801	L802	L803	L804	L805	L806	L807	L808	L809	L810	L811	L812	L813	L814	L815	L816	L817	L818	L819	L820	L821	L822	L823	L824	L825	L826	L827	L828	L829	L830	L831	L832	L833	L834	L835	L836	L837	L838	L839	L840	L841	L842	L843	L844	L845	L846	L847	L848	L849	L850	L851	L852	L853	L854	L855	L856	L857	L858	L859	L860	L861	L862	L863	L864	L865	L866	L867	L868	L869	L870	L871	L872	L873	L874	L875	L876	L877	L878	L879	L880	L881	L882	L883	L884	L885																																																																																																																																																																																																																																																																																																																																																





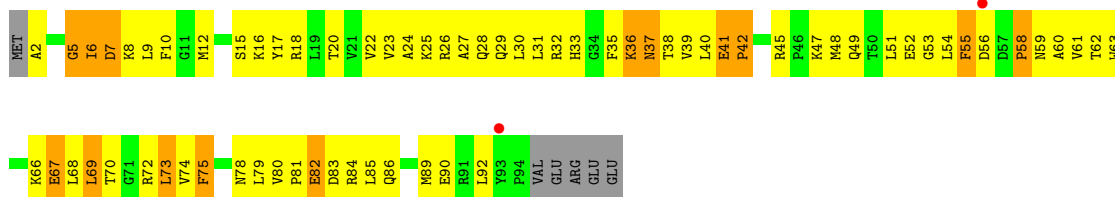
• Molecule 4: DNA-directed RNA polymerase subunit omega



• Molecule 4: DNA-directed RNA polymerase subunit omega

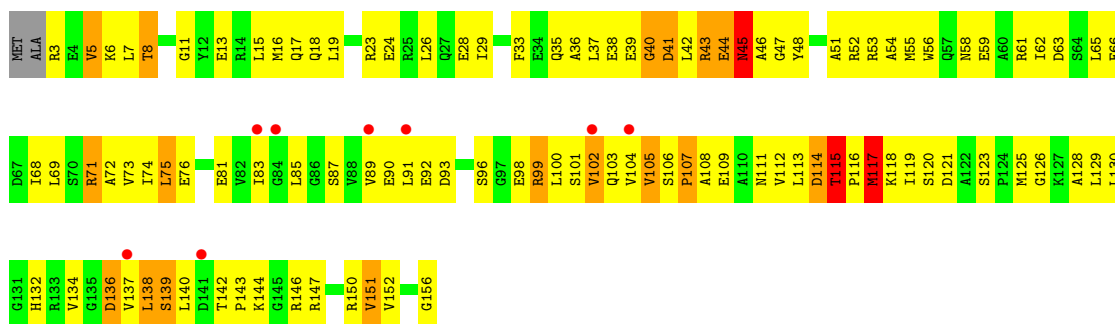


• Molecule 4: DNA-directed RNA polymerase subunit omega



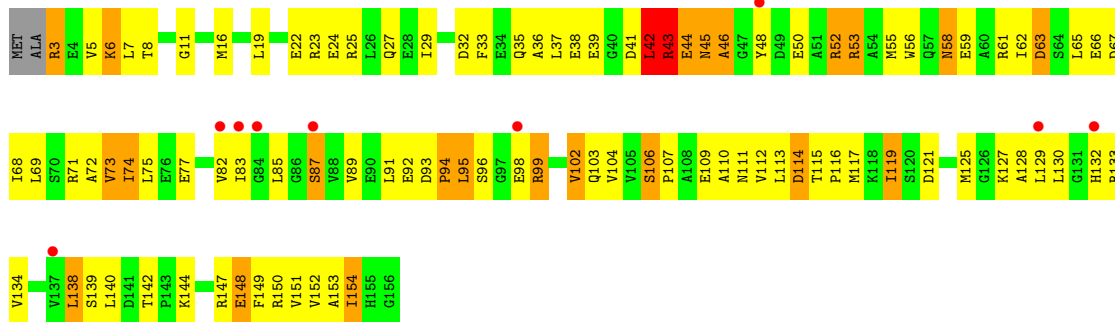
- Molecule 5: RNA cleavage stimulating factor (GreA/Gfh1 chimeric protein Gre-C1)

Chain X:  5% 29% 56% 11% ..



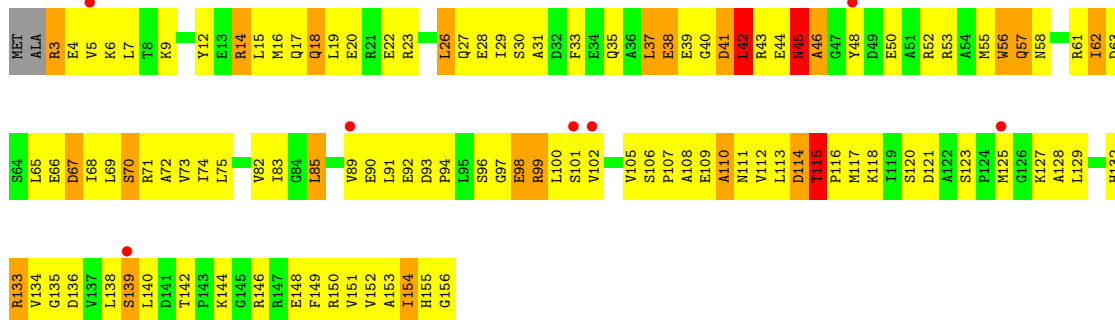
- Molecule 5: RNA cleavage stimulating factor (GreA/Gfh1 chimeric protein Gre-C1)

Chain Y:  6% 35% 48% 14% ..



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

Chain Z:  4% 26% 57% 13% ..



## 4 Data and refinement statistics

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, $\alpha$ , $\beta$ , $\gamma$	189.57Å 263.77Å 195.85Å 90.00° 116.83° 90.00°	Depositor
Resolution (Å)	45.79 – 4.40 45.79 – 4.40	Depositor EDS
% Data completeness (in resolution range)	96.4 (45.79-4.40) 96.5 (45.79-4.40)	Depositor EDS
$R_{merge}$	(Not available)	Depositor
$R_{sym}$	0.17	Depositor
$\langle I/\sigma(I) \rangle$ <sup>1</sup>	1.70 (at 4.45Å)	Xtrriage
Refinement program	CNS 1.3	Depositor
R, $R_{free}$	0.260 , 0.313 0.260 , 0.313	Depositor DCC
$R_{free}$ test set	3149 reflections (3.01%)	wwPDB-VP
Wilson B-factor (Å <sup>2</sup> )	151.2	Xtrriage
Anisotropy	0.098	Xtrriage
Bulk solvent $k_{sol}$ (e/Å <sup>3</sup> ), $B_{sol}$ (Å <sup>2</sup> )	0.22 , 136.8	EDS
L-test for twinning <sup>2</sup>	$\langle  L  \rangle = 0.35$ , $\langle L^2 \rangle = 0.17$	Xtrriage
Estimated twinning fraction	0.129 for l,-k,h	Xtrriage
$F_o, F_c$ correlation	0.89	EDS
Total number of atoms	73369	wwPDB-VP
Average B, all atoms (Å <sup>2</sup> )	179.0	wwPDB-VP

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

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

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

## 5 Model quality i

### 5.1 Standard geometry i

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

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z  >5	RMSZ	# Z  >5
1	A	0.46	0/1791	0.64	0/2436
1	B	0.51	0/1799	0.65	0/2447
1	F	0.51	0/1791	0.66	0/2436
1	G	0.51	0/1791	0.68	0/2436
1	K	0.45	0/1801	0.60	0/2450
1	L	0.51	0/1799	0.65	0/2447
2	C	0.51	0/8683	0.63	0/11747
2	H	0.53	0/8692	0.64	0/11758
2	M	0.49	0/8683	0.63	0/11747
3	D	0.52	0/10692	0.65	1/14452 (0.0%)
3	I	0.50	0/10571	0.62	0/14288
3	N	0.50	0/10617	0.63	0/14350
4	E	0.49	0/768	0.62	0/1035
4	J	0.51	0/768	0.63	0/1035
4	O	0.53	0/768	0.62	0/1035
5	X	0.68	0/1212	0.81	1/1629 (0.1%)
5	Y	0.64	0/1212	0.82	1/1629 (0.1%)
5	Z	0.62	0/1212	0.87	2/1629 (0.1%)
All	All	0.51	0/74650	0.65	5/100986 (0.0%)

There are no bond length outliers.

All (5) bond angle outliers are listed below:

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

There are no chirality outliers.

There are no planarity outliers.

## 5.2 Too-close contacts

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

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

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 64.

All (9501) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:6:ARG:HH21	3:I:1460:ILE:HG22	1.20	1.03
3:N:922:LEU:HD23	3:N:922:LEU:H	1.19	1.02
3:N:1209:LEU:HD23	3:N:1211:MET:H	1.22	1.02
2:M:165:LEU:HG	2:M:166:PRO:HA	1.41	1.02
2:M:721:ARG:HG2	2:M:820:ARG:HH12	1.21	1.02
3:N:843:PHE:HB2	3:N:866:VAL:HG22	1.42	1.02
3:N:1065:LEU:HD11	3:N:1069:GLU:HB3	1.38	1.02
2:C:708:TYR:O	2:C:825:VAL:HG12	1.59	1.01
3:D:1472:ILE:HD13	3:D:1472:ILE:H	1.20	1.01
2:H:640:ARG:HB2	2:H:642:ARG:HH21	1.24	1.01
3:N:1310:ARG:HB3	3:N:1327:ARG:HH21	1.23	1.01
4:J:25:LYS:HA	4:J:28:GLN:HE21	1.26	1.01
3:I:1476:THR:HG23	4:J:21:VAL:HG22	1.42	1.00
2:M:283:ILE:HG23	2:M:284:ARG:H	1.26	1.00
2:C:750:LYS:HZ2	2:C:751:PRO:HD3	1.26	1.00
2:C:918:LEU:HD11	2:C:968:LEU:HA	1.42	1.00
3:D:483:HIS:HB2	3:D:484:PRO:HD3	1.41	1.00
3:D:1320:GLU:H	3:D:1323:GLN:NE2	1.59	1.00
3:I:136:ASP:HB3	3:I:137:PRO:HD3	1.40	1.00
3:I:769:LEU:O	3:I:778:LEU:HG	1.60	1.00
1:G:78:ILE:O	1:G:82:LEU:HD23	1.61	0.99
2:C:701:THR:HG22	2:C:832:LYS:HA	1.40	0.99
3:D:1240:THR:HG22	3:D:1241:PHE:H	1.24	0.99
2:M:208:ALA:HB2	2:M:222:MET:HG3	1.41	0.99
2:C:290:LEU:HD23	2:C:290:LEU:H	1.27	0.99
1:G:53:VAL:HA	1:G:144:VAL:HG22	1.41	0.99
3:D:1087:ARG:HE	3:D:1235:GLN:HA	1.26	0.98
3:D:1209:LEU:HD23	3:D:1211:MET:H	1.27	0.98
3:N:119:SER:HB3	3:N:123:LEU:HB2	1.44	0.98
2:H:250:ARG:NH1	2:H:250:ARG:HA	1.78	0.98
2:M:168:ARG:NH1	2:M:262:ALA:HB3	1.77	0.98
3:N:12:LEU:H	3:N:12:LEU:HD22	1.27	0.98
3:N:366:LYS:HE2	3:N:369:ALA:HB2	1.45	0.98
2:H:726:ILE:HD13	2:H:734:LEU:HD21	1.44	0.98
3:N:705:ALA:HB3	3:N:706:PRO:HD3	1.43	0.98
1:B:74:ASP:HB2	3:D:872:ARG:HH22	1.29	0.98
3:N:162:ARG:NH1	3:N:450:TYR:HB3	1.79	0.98
2:C:915:LYS:HA	2:C:918:LEU:HD23	1.43	0.98
5:Y:41:ASP:O	5:Y:43:ARG:N	1.97	0.98
3:D:800:LYS:HA	3:D:829:VAL:HG13	1.44	0.98
3:D:1120:VAL:HG23	3:D:1186:VAL:HB	1.46	0.98

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

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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:928:ALA:HA	3:I:931:LEU:HD12	1.49	0.92
4:O:18:ARG:O	4:O:22:VAL:HG23	1.68	0.92
3:N:136:ASP:HB3	3:N:137:PRO:HD3	1.53	0.91
2:C:292:ARG:HD2	2:C:299:LYS:HE3	1.51	0.91
3:I:864:VAL:HG12	3:I:865:THR:H	1.34	0.91
2:C:141:HIS:HB3	2:C:418:LEU:HD23	1.51	0.91
1:F:64:GLU:HA	1:F:75:VAL:HG11	1.52	0.91
2:M:142:ARG:HB3	2:M:142:ARG:HH11	1.36	0.91
3:N:191:LEU:HD21	3:N:197:SER:HB3	1.52	0.91
2:C:368:THR:HB	2:C:369:PRO:HD3	1.52	0.91
3:D:804:LEU:HD22	3:D:831:GLY:HA2	1.51	0.91
1:G:80:LEU:HD11	3:I:867:ARG:HD2	1.50	0.91
2:H:118:ILE:HD13	2:H:118:ILE:H	1.35	0.91
3:I:483:HIS:HB2	3:I:484:PRO:HD3	1.53	0.91
2:M:876:VAL:H	2:M:877:PRO:HD2	1.33	0.91
3:D:850:LEU:HD12	3:D:850:LEU:H	1.36	0.91
3:I:850:LEU:H	3:I:850:LEU:HD12	1.35	0.91
2:M:722:ILE:HG21	2:M:821:GLU:OE1	1.70	0.91
2:M:495:THR:HG21	2:M:517:ARG:HH21	1.34	0.90
1:B:184:THR:HG23	1:B:192:LEU:HD12	1.52	0.90
2:H:577:PRO:HD2	2:H:580:MET:HE3	1.53	0.90
1:B:85:LEU:HD12	1:B:124:ASN:HB3	1.50	0.90
3:D:1147:ARG:HB3	3:D:1188:VAL:HG21	1.50	0.90
3:N:793:THR:HG21	3:N:906:GLN:HG2	1.53	0.90
2:C:198:ARG:HH12	2:C:203:ASP:HA	1.35	0.90
2:H:250:ARG:HA	2:H:250:ARG:HH11	1.35	0.90
3:N:996:TRP:HA	3:N:999:THR:HG22	1.53	0.90
2:H:154:ARG:HH22	2:H:178:PRO:HG2	1.34	0.90
3:D:1192:LEU:HD21	3:D:1369:GLU:HB3	1.53	0.90
2:H:276:LYS:HA	2:H:280:LYS:HZ2	1.36	0.90
2:H:331:ARG:HH12	2:H:427:VAL:HG11	1.34	0.90
2:H:874:LEU:HD13	3:I:783:ARG:HB2	1.52	0.90
2:C:595:LEU:HD23	2:C:655:LEU:HB2	1.51	0.90
2:C:805:ARG:HG2	2:C:806:LEU:H	1.36	0.90
2:C:1095:LEU:HD22	3:D:603:LEU:HD22	1.54	0.90
3:I:804:LEU:O	3:I:832:ARG:HG2	1.72	0.90
3:D:807:ALA:H	3:D:832:ARG:HG2	1.35	0.90
3:D:825:ALA:HB1	3:D:829:VAL:HG21	1.51	0.90
1:B:117:VAL:HG12	1:B:118:ALA:H	1.35	0.90
2:C:606:VAL:HG22	2:C:645:VAL:HG13	1.53	0.90
3:D:1237:THR:HG22	3:D:1238:MET:H	1.36	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:132:LEU:HD11	1:G:138:LEU:HD13	1.52	0.90
2:H:136:ILE:HG21	2:H:336:VAL:HG13	1.54	0.90
1:B:58:ILE:HG13	1:B:140:MET:HB3	1.50	0.89
1:K:58:ILE:HD13	1:K:140:MET:HB3	1.53	0.89
3:N:522:PRO:HA	3:N:525:ARG:NH1	1.86	0.89
2:M:756:VAL:HG22	2:M:790:LEU:HB3	1.53	0.89
2:C:744:ARG:HG3	2:C:747:ALA:HB2	1.54	0.89
3:I:1465:ASN:HD21	3:I:1470:ARG:HB3	1.37	0.89
3:N:1422:MET:HE3	3:N:1426:LYS:HG2	1.55	0.89
2:M:12:VAL:HG13	2:M:13:ILE:H	1.38	0.89
3:I:1107:VAL:HB	3:I:1218:GLY:H	1.35	0.89
2:M:168:ARG:HH11	2:M:262:ALA:HB3	1.32	0.89
2:H:140:ILE:HG22	2:H:333:ILE:HG12	1.55	0.89
3:D:1426:LYS:HA	3:D:1429:LEU:HD22	1.52	0.89
1:F:100:LEU:HD11	1:F:102:LYS:HZ1	1.32	0.89
2:H:97:ARG:C	2:H:98:LEU:HD13	1.93	0.89
2:M:874:LEU:HD13	3:N:783:ARG:HB3	1.55	0.89
3:I:809:PRO:HB2	3:I:812:ALA:HB2	1.53	0.89
2:M:328:LEU:HD13	2:M:433:THR:HB	1.52	0.89
2:M:537:LYS:HE3	2:M:905:ILE:HD13	1.54	0.89
3:D:860:LEU:HA	3:D:877:PRO:HB2	1.54	0.89
2:M:328:LEU:HB2	2:M:433:THR:HG21	1.54	0.89
4:O:48:MET:SD	4:O:54:LEU:HD12	2.13	0.89
2:H:73:LEU:HD22	2:H:94:LEU:HB2	1.55	0.89
2:M:946:ARG:HB3	2:M:946:ARG:HH11	1.36	0.89
2:M:987:ILE:HA	3:N:948:THR:HG21	1.55	0.89
2:M:840:ALA:HB2	2:M:846:LYS:HA	1.53	0.88
3:N:87:ARG:HB3	3:N:523:ASP:HB2	1.52	0.88
3:I:716:PHE:O	3:I:718:PRO:HD3	1.72	0.88
3:I:800:LYS:HA	3:I:829:VAL:HG13	1.55	0.88
3:I:1018:ASN:O	3:I:1022:VAL:HG23	1.71	0.88
2:M:496:ILE:HG13	2:M:531:PHE:HB2	1.54	0.88
3:N:165:LYS:NZ	3:N:397:LYS:H	1.71	0.88
2:C:758:ARG:HD3	2:C:788:THR:O	1.74	0.88
4:J:54:LEU:HG	4:J:58:PRO:CG	2.03	0.88
1:L:219:ARG:HB3	1:L:219:ARG:HH11	1.39	0.88
2:M:950:LEU:HB3	2:M:952:LEU:HD23	1.55	0.88
2:C:939:ARG:HB3	2:C:982:PRO:HG3	1.54	0.88
3:D:358:GLY:H	3:D:385:VAL:HB	1.38	0.88
1:L:151:VAL:H	1:L:169:ALA:HB3	1.38	0.88
2:C:673:LEU:HD22	2:C:868:ASP:N	1.88	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:676:ILE:HG23	2:C:988:VAL:HG13	1.55	0.88
3:D:1205:TYR:CD2	3:D:1215:VAL:HG21	2.08	0.88
2:H:611:ILE:HG12	2:H:625:LEU:HD11	1.53	0.88
2:H:679:PHE:HD2	2:H:680:ASP:H	1.18	0.88
3:N:522:PRO:HA	3:N:525:ARG:HH11	1.37	0.88
5:Y:41:ASP:HA	5:Y:45:ASN:HD21	1.37	0.88
2:C:118:ILE:HG22	2:C:382:ILE:HD13	1.55	0.88
3:D:684:LYS:HB2	3:D:687:VAL:HG23	1.56	0.88
3:N:165:LYS:HZ1	3:N:397:LYS:H	0.88	0.88
2:H:21:ILE:H	2:H:21:ILE:HD12	1.36	0.88
2:H:873:PRO:HB3	3:I:949:ILE:HD13	1.54	0.88
2:M:833:LEU:HD11	2:M:996:LYS:HD2	1.56	0.88
3:N:165:LYS:HZ1	3:N:397:LYS:N	1.71	0.87
3:I:881:LEU:HG	3:I:885:ILE:HD11	1.56	0.87
2:M:1059:ASP:HA	2:M:1083:GLU:HG3	1.56	0.87
4:O:73:LEU:H	4:O:73:LEU:HD22	1.35	0.87
1:B:151:VAL:H	1:B:169:ALA:HB3	1.39	0.87
2:H:565:GLN:NE2	2:H:842:ARG:HG2	1.89	0.87
1:B:86:VAL:HG12	1:B:124:ASN:HB2	1.56	0.87
3:D:119:SER:H	3:D:123:LEU:HD22	1.37	0.87
2:H:732:ALA:HA	2:H:735:ARG:HH22	1.39	0.87
1:A:212:ASN:H	1:A:212:ASN:HD22	1.20	0.87
2:C:154:ARG:HH12	2:C:178:PRO:HG3	1.39	0.87
2:H:877:PRO:HB3	3:I:1023:MET:HE1	1.55	0.87
2:H:1095:LEU:HD12	3:I:603:LEU:HD13	1.57	0.87
3:I:44:LEU:H	3:I:44:LEU:HD12	1.39	0.87
3:N:922:LEU:HD12	3:N:926:LYS:HB3	1.54	0.87
2:C:160:ALA:HB3	2:C:174:LEU:HB2	1.57	0.87
3:I:477:LEU:HD21	3:I:495:ARG:HD3	1.57	0.87
3:N:844:ALA:HB1	3:N:867:ARG:HH22	1.40	0.87
3:N:922:LEU:HD12	3:N:926:LYS:CB	2.04	0.87
1:B:54:THR:HG21	1:B:143:ARG:HH21	1.40	0.87
1:B:100:LEU:HD23	1:B:115:LEU:HD21	1.57	0.87
3:D:947:ILE:HD12	3:D:947:ILE:O	1.75	0.87
3:D:1363:LEU:HD23	3:D:1363:LEU:H	1.39	0.87
2:H:217:LEU:H	2:H:217:LEU:HD22	1.39	0.87
1:A:184:THR:HB	1:A:192:LEU:HB2	1.56	0.87
2:H:154:ARG:NH2	2:H:178:PRO:HG2	1.89	0.87
2:H:157:ARG:HB3	2:H:176:VAL:HG21	1.57	0.87
2:H:333:ILE:H	2:H:465:GLY:HA3	1.38	0.87
2:H:987:ILE:HG23	3:I:948:THR:HG21	1.57	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:358:GLY:H	3:I:385:VAL:HB	1.39	0.87
3:I:771:SER:HB3	3:I:778:LEU:CD2	2.04	0.87
2:M:726:ILE:HG12	2:M:734:LEU:HD11	1.57	0.87
1:A:103:ALA:H	1:A:138:LEU:CD2	1.87	0.86
3:I:1379:VAL:HG12	3:I:1419:PRO:HA	1.56	0.86
2:M:405:ARG:HD3	2:M:543:ASN:HD22	1.39	0.86
4:E:6:ILE:HA	4:E:9:LEU:HD12	1.55	0.86
2:H:565:GLN:HE22	2:H:842:ARG:HG2	1.40	0.86
3:I:726:ILE:H	3:I:726:ILE:HD12	1.41	0.86
1:L:138:LEU:HD22	1:L:139:ASN:N	1.89	0.86
2:M:17:PRO:HB2	2:M:20:GLU:HB3	1.55	0.86
3:N:187:LYS:HG3	3:N:199:LEU:HA	1.54	0.86
3:N:922:LEU:HB2	3:N:926:LYS:HD3	1.55	0.86
1:A:44:LEU:O	1:A:174:VAL:HG21	1.74	0.86
2:C:64:LEU:HD11	2:C:372:LEU:HD21	1.56	0.86
3:D:902:LEU:HD23	3:D:902:LEU:H	1.41	0.86
2:H:572:ILE:HD12	2:H:573:ARG:H	1.38	0.86
2:H:710:ILE:HG21	2:H:756:VAL:HG21	1.55	0.86
3:N:785:ILE:HD12	3:N:938:GLY:HA3	1.55	0.86
3:D:353:VAL:HG12	3:D:368:VAL:HG22	1.57	0.86
3:D:563:PRO:HA	2:H:223:ASP:HB2	1.56	0.86
3:I:642:CYS:SG	3:I:716:PHE:HB2	2.15	0.86
1:K:35:THR:HG21	1:L:43:ILE:CD1	2.06	0.86
3:N:18:ILE:HG23	3:N:518:PRO:HG3	1.58	0.86
3:D:365:ASP:H	3:D:379:ALA:CB	1.89	0.86
3:N:661:MET:HE3	3:N:673:ALA:HB1	1.56	0.86
3:N:1217:ILE:HD12	3:N:1217:ILE:H	1.38	0.86
3:N:1493:LYS:HE2	3:N:1493:LYS:HA	1.56	0.86
3:D:645:PRO:HB2	3:D:648:MET:HG3	1.58	0.86
3:D:1122:LEU:HD11	3:D:1186:VAL:HG23	1.55	0.86
2:H:676:ILE:HG23	2:H:988:VAL:HG13	1.57	0.86
5:Z:26:LEU:HD13	5:Z:58:ASN:HD22	1.40	0.86
2:H:17:PRO:HB2	2:H:20:GLU:HB3	1.57	0.86
2:M:415:PRO:HD2	2:M:418:LEU:HD21	1.56	0.86
2:C:374:ASN:HD22	2:C:374:ASN:N	1.74	0.86
2:C:65:VAL:HB	2:C:101:ILE:O	1.76	0.85
3:D:1206:GLY:O	3:D:1215:VAL:HG23	1.75	0.85
3:I:804:LEU:HD21	3:I:831:GLY:HA2	1.57	0.85
1:K:48:ILE:HG22	1:K:173:PRO:HD2	1.56	0.85
1:L:190:THR:HB	3:N:722:GLU:OE1	1.75	0.85
3:N:785:ILE:HD13	3:N:935:LYS:HA	1.56	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Z:73:VAL:HG12	5:Z:74:ILE:H	1.41	0.85
2:C:146:VAL:HG11	2:C:281:LEU:HD22	1.56	0.85
2:C:572:ILE:HD13	2:C:573:ARG:H	1.38	0.85
3:N:761:ILE:HD13	4:O:20:THR:HA	1.56	0.85
3:N:902:LEU:HD23	3:N:902:LEU:H	1.40	0.85
2:C:950:LEU:HB3	2:C:952:LEU:HD23	1.58	0.85
3:D:1245:GLY:O	3:D:1246:VAL:HG13	1.75	0.85
1:B:124:ASN:ND2	1:B:127:LEU:HD12	1.90	0.85
2:C:479:VAL:HG11	2:C:503:LEU:HD21	1.58	0.85
3:I:637:LEU:HD21	3:I:642:CYS:HA	1.56	0.85
1:B:156:HIS:ND1	1:B:158:ILE:HG12	1.92	0.85
1:G:85:LEU:HA	1:G:124:ASN:HD22	1.39	0.85
2:H:160:ALA:HB3	2:H:174:LEU:HB2	1.57	0.85
2:M:572:ILE:HD12	2:M:701:THR:HB	1.58	0.85
5:X:45:ASN:O	5:X:46:ALA:C	2.15	0.85
2:M:1095:LEU:HB3	3:N:603:LEU:HD13	1.56	0.85
3:N:825:ALA:HB1	3:N:829:VAL:HG21	1.58	0.85
3:D:1209:LEU:HD23	3:D:1211:MET:N	1.92	0.85
2:H:876:VAL:H	2:H:877:PRO:HD2	1.42	0.85
3:N:546:ARG:HB3	3:N:546:ARG:NH1	1.91	0.85
3:N:1272:ALA:HA	3:N:1326:THR:HB	1.57	0.85
3:D:461:ILE:HA	3:D:464:LEU:HD12	1.59	0.85
3:D:564:GLU:N	2:H:223:ASP:HB2	1.91	0.85
3:I:767:HIS:HA	3:I:924:MET:SD	2.16	0.85
3:N:710:ARG:HH22	3:N:1210:SER:HB3	1.38	0.85
3:D:1106:VAL:HG22	3:D:1220:ALA:HA	1.58	0.85
3:D:1481:VAL:HG11	4:E:18:ARG:HA	1.57	0.85
3:I:720:LEU:HD13	3:I:720:LEU:H	1.36	0.85
4:J:54:LEU:HG	4:J:58:PRO:HG3	1.56	0.84
1:K:54:THR:HG22	1:K:158:ILE:HG13	1.59	0.84
2:M:857:ASP:HB2	2:M:978:ARG:HG2	1.59	0.84
3:D:484:PRO:HB3	3:D:488:ARG:NE	1.91	0.84
1:G:117:VAL:HG12	1:G:118:ALA:H	1.41	0.84
3:I:654:LYS:HB3	3:I:655:PRO:HD3	1.58	0.84
3:N:85:VAL:HG23	3:N:86:ARG:HD3	1.59	0.84
3:D:1345:GLU:HA	3:D:1348:LEU:HD22	1.56	0.84
1:F:109:VAL:HB	1:F:130:ALA:H	1.42	0.84
3:I:8:VAL:HG23	3:I:1459:LEU:HD11	1.59	0.84
3:I:703:ASN:HD22	3:I:713:ILE:HG23	1.42	0.84
3:N:1135:ARG:HB2	3:N:1140:ILE:HD11	1.58	0.84
1:A:102:LYS:HA	1:A:138:LEU:HG	1.58	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1056:LYS:HB3	3:D:623:VAL:HG12	1.59	0.84
3:I:131:LYS:HD3	3:I:568:ARG:HG2	1.59	0.84
3:I:890:VAL:HG12	3:I:926:LYS:HG3	1.59	0.84
3:I:1485:GLN:HG3	4:J:79:LEU:H	1.40	0.84
2:M:107:LEU:HD13	2:M:109:LYS:H	1.42	0.84
3:D:813:LEU:HD12	3:D:814:ALA:N	1.91	0.84
2:M:312:ALA:HB1	2:M:318:PRO:HG2	1.59	0.84
2:C:516:ARG:NH2	3:D:1068:LEU:HB2	1.91	0.84
3:D:996:TRP:HA	3:D:999:THR:CG2	2.06	0.84
3:I:825:ALA:HB1	3:I:829:VAL:HG21	1.56	0.84
3:I:1147:ARG:HB3	3:I:1188:VAL:HG21	1.60	0.84
2:M:136:ILE:H	2:M:136:ILE:HD12	1.42	0.84
2:C:808:ARG:HH21	2:C:820:ARG:HE	1.26	0.84
3:I:1109:GLU:CD	3:I:1201:CYS:HA	1.98	0.84
1:L:189:ARG:HG3	1:L:192:LEU:HD21	1.60	0.84
3:D:361:VAL:HG12	3:D:383:GLY:H	1.43	0.84
3:D:1095:THR:HG23	3:D:1230:GLY:HA3	1.57	0.84
2:H:159:ILE:HG22	2:H:175:GLU:HA	1.59	0.84
2:M:18:LEU:H	2:M:18:LEU:HD12	1.42	0.84
3:I:1020:LEU:HA	3:I:1023:MET:HE2	1.60	0.84
3:N:390:PRO:HB2	3:N:393:ILE:HD11	1.59	0.84
3:N:600:LEU:HD12	3:N:600:LEU:H	1.43	0.84
3:I:522:PRO:HA	3:I:525:ARG:NH1	1.93	0.84
3:I:820:GLU:HG3	3:I:836:VAL:HG11	1.59	0.84
3:N:809:PRO:HB2	3:N:812:ALA:HB2	1.60	0.84
2:C:850:ALA:HA	3:D:632:VAL:HG11	1.58	0.83
3:D:1472:ILE:H	3:D:1472:ILE:CD1	1.89	0.83
1:F:219:ARG:HA	1:F:222:LEU:HD22	1.59	0.83
1:G:90:LEU:HB3	1:G:119:ASP:HB3	1.59	0.83
2:H:276:LYS:HA	2:H:280:LYS:NZ	1.92	0.83
2:H:10:ARG:HH11	2:H:10:ARG:HA	1.39	0.83
2:H:701:THR:HG23	2:H:832:LYS:HA	1.58	0.83
3:I:875:THR:HG22	3:I:879:ARG:HD3	1.58	0.83
3:N:638:LYS:H	3:N:641:GLN:HE22	1.21	0.83
2:C:400:PRO:O	2:C:404:LEU:HD23	1.78	0.83
3:I:600:LEU:H	3:I:600:LEU:HD12	1.41	0.83
1:A:41:ARG:HH11	1:A:177:VAL:HB	1.43	0.83
2:C:431:HIS:H	2:C:434:HIS:CE1	1.96	0.83
2:H:383:ARG:HB2	2:H:383:ARG:HH11	1.41	0.83
3:N:983:LEU:HD12	3:N:987:GLU:HB3	1.58	0.83
2:C:872:ASN:HD21	2:C:874:LEU:HD12	1.40	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:137:PRO:HG3	3:D:453:ASP:H	1.42	0.83
2:M:1052:MET:HG3	3:N:623:VAL:HG11	1.60	0.83
2:C:697:ARG:HD2	2:C:699:PHE:CZ	2.14	0.83
3:N:179:VAL:HG13	3:N:183:GLU:HB3	1.59	0.83
3:N:720:LEU:HD13	3:N:720:LEU:H	1.43	0.83
3:D:1213:ARG:HH22	4:E:10:PHE:HB3	1.43	0.83
1:G:44:LEU:HD13	1:G:177:VAL:HG11	1.60	0.83
1:G:100:LEU:HB2	1:G:115:LEU:HD11	1.59	0.83
2:H:73:LEU:HB2	2:H:93:PRO:O	1.79	0.83
2:H:939:ARG:HB3	2:H:982:PRO:HG3	1.59	0.83
3:I:158:TYR:O	3:I:162:ARG:HB3	1.78	0.83
3:I:1036:ARG:HH21	3:I:1043:GLY:H	1.25	0.83
2:M:676:ILE:HG23	2:M:988:VAL:HG13	1.60	0.83
3:N:1122:LEU:HD21	3:N:1144:LEU:HD11	1.60	0.83
3:D:102:ILE:HD11	3:D:586:ARG:HH11	1.42	0.83
2:M:151:ASP:OD1	2:M:154:ARG:HB3	1.77	0.83
2:M:754:ILE:H	2:M:754:ILE:HD12	1.41	0.83
2:M:1032:PHE:HZ	2:M:1040:LEU:HD22	1.43	0.83
3:N:930:LEU:O	3:N:934:LEU:HG	1.79	0.83
2:M:474:VAL:HG11	2:M:529:VAL:HG12	1.59	0.83
2:C:1014:SER:HB3	2:C:1019:GLN:H	1.44	0.83
3:D:1252:ILE:HG12	3:D:1253:THR:N	1.93	0.83
2:M:690:ILE:HG23	2:M:852:ILE:HG23	1.61	0.83
3:D:1274:ILE:HG22	3:D:1323:GLN:O	1.78	0.82
3:I:1166:LEU:HD23	3:I:1166:LEU:H	1.44	0.82
3:N:387:LEU:H	3:N:387:LEU:CD1	1.91	0.82
3:N:1034:GLN:HA	3:N:1037:GLN:HE21	1.43	0.82
3:N:1166:LEU:H	3:N:1166:LEU:HD23	1.42	0.82
1:A:85:LEU:HD12	1:A:124:ASN:HB3	1.59	0.82
3:D:150:ARG:HH12	3:D:468:LEU:HD11	1.43	0.82
2:H:668:LEU:H	2:H:668:LEU:HD12	1.42	0.82
2:H:749:VAL:HG12	2:H:753:ASP:HB2	1.61	0.82
4:J:36:LYS:HA	4:J:36:LYS:HE3	1.61	0.82
2:H:98:LEU:HD22	2:H:98:LEU:N	1.92	0.82
2:H:800:VAL:HG13	2:H:826:TYR:O	1.79	0.82
3:I:366:LYS:H	3:I:366:LYS:HD2	1.42	0.82
2:M:122:THR:HG22	2:M:123:GLU:H	1.43	0.82
3:N:658:LEU:HA	3:N:661:MET:HG3	1.60	0.82
3:N:771:SER:HB2	3:N:778:LEU:HD11	1.59	0.82
1:G:185:ARG:HG3	3:I:720:LEU:HG	1.62	0.82
4:J:18:ARG:O	4:J:22:VAL:HG23	1.78	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:1053:LEU:HD12	2:M:1054:THR:HG23	1.58	0.82
3:N:1106:VAL:HG13	3:N:1219:GLU:O	1.80	0.82
5:Z:26:LEU:HD22	5:Z:58:ASN:HB3	1.61	0.82
3:I:695:ILE:HD12	3:I:698:LYS:HB2	1.60	0.82
1:K:39:PRO:HG3	1:L:39:PRO:HG3	1.62	0.82
2:M:803:THR:HG22	2:M:825:VAL:HA	1.59	0.82
3:N:414:ARG:HH11	3:N:414:ARG:HB2	1.44	0.82
1:F:111:ALA:HA	1:F:129:ILE:HD11	1.59	0.82
2:H:53:PRO:HG3	2:H:67:ASP:OD1	1.80	0.82
2:H:524:VAL:HG11	2:H:528:GLU:HB2	1.60	0.82
2:H:939:ARG:NH1	2:H:981:GLU:HG3	1.93	0.82
3:I:1211:MET:HG2	3:I:1212:ALA:H	1.44	0.82
2:M:263:ASP:HB2	2:M:264:PRO:HD3	1.62	0.82
3:I:87:ARG:HB3	3:I:523:ASP:HB2	1.60	0.82
3:I:835:SER:H	3:I:838:ARG:HH11	1.27	0.82
2:M:937:ASP:HB3	2:M:940:GLU:HG3	1.62	0.82
2:C:129:ILE:HD12	2:C:129:ILE:N	1.95	0.82
3:I:1197:ARG:HD3	3:I:1198:TYR:H	1.45	0.82
3:N:782:SER:O	3:N:785:ILE:HG22	1.80	0.82
1:A:214:ALA:HA	1:A:217:ILE:HD12	1.62	0.82
1:G:106:PRO:HA	1:G:132:LEU:O	1.78	0.82
2:C:212:GLY:HA3	2:C:218:VAL:HB	1.60	0.82
3:D:411:THR:HG23	3:D:437:VAL:H	1.44	0.82
3:I:1042:ARG:HD2	3:I:1061:PHE:HE1	1.42	0.82
1:K:102:LYS:HG2	1:K:139:ASN:HA	1.60	0.82
2:C:15:LEU:HD12	2:C:15:LEU:H	1.45	0.81
3:I:1220:ALA:HB1	3:I:1223:ILE:HD12	1.61	0.81
5:Y:144:LYS:HD3	5:Y:147:ARG:HH11	1.45	0.81
3:D:715:ALA:HB3	3:D:764:LEU:HA	1.61	0.81
3:D:737:ASN:ND2	5:X:42:LEU:HD21	1.93	0.81
3:D:1200:VAL:HG12	3:D:1201:CYS:H	1.46	0.81
2:H:1014:SER:HB3	2:H:1019:GLN:H	1.42	0.81
1:K:165:ILE:HD13	1:K:165:ILE:H	1.44	0.81
2:M:185:LYS:HE2	2:M:190:LYS:HD3	1.61	0.81
2:C:700:TYR:HB3	2:C:833:LEU:HD13	1.61	0.81
3:D:162:ARG:HE	3:D:452:ILE:HG12	1.45	0.81
3:D:172:PRO:HG2	3:D:175:VAL:HB	1.63	0.81
3:D:843:PHE:HB2	3:D:866:VAL:HG22	1.60	0.81
3:D:1102:THR:HA	3:D:1105:ILE:HD13	1.60	0.81
2:H:537:LYS:HE2	2:H:905:ILE:HD13	1.60	0.81
3:I:804:LEU:HD21	3:I:831:GLY:CA	2.10	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:872:ASN:HD21	2:M:874:LEU:HD12	1.44	0.81
2:M:1049:LEU:HD23	3:N:1472:ILE:HD12	1.62	0.81
2:H:263:ASP:HB2	2:H:264:PRO:HD3	1.63	0.81
2:H:749:VAL:O	2:H:750:LYS:HD2	1.80	0.81
1:K:229:GLN:HB3	1:L:12:THR:HA	1.63	0.81
2:M:154:ARG:HH12	2:M:157:ARG:H	1.27	0.81
2:M:332:ARG:HB3	2:M:332:ARG:HH11	1.45	0.81
2:M:339:LEU:HD13	2:M:391:LEU:HD11	1.62	0.81
3:N:36:THR:HB	3:N:38:LYS:HG3	1.63	0.81
2:C:290:LEU:H	2:C:290:LEU:CD2	1.93	0.81
3:D:1053:PHE:HD2	3:D:1054:GLU:H	1.26	0.81
1:G:185:ARG:HD2	1:G:186:LEU:N	1.96	0.81
3:N:1434:TRP:CZ3	3:N:1457:ASP:HB2	2.16	0.81
3:D:141:ILE:HD11	3:D:432:TYR:HB2	1.61	0.81
4:E:48:MET:SD	4:E:54:LEU:HD12	2.21	0.81
3:I:1146:GLY:HA3	3:I:1207:TYR:HB2	1.61	0.81
1:K:42:ARG:HH12	1:L:34:VAL:HB	1.45	0.81
1:K:65:PHE:HE1	2:M:799:ILE:HD12	1.44	0.81
3:N:639:LEU:HD13	3:N:640:HIS:N	1.96	0.81
5:Y:134:VAL:HG22	5:Y:153:ALA:HA	1.62	0.81
2:C:474:VAL:HG11	2:C:529:VAL:HG12	1.63	0.81
3:D:720:LEU:H	3:D:720:LEU:HD13	1.46	0.81
1:L:123:MET:N	1:L:123:MET:SD	2.54	0.81
2:C:1066:ALA:HA	2:C:1077:PRO:CD	2.11	0.81
3:I:103:TRP:CZ2	3:I:604:THR:HG22	2.15	0.81
2:M:185:LYS:HG2	2:M:190:LYS:HG2	1.62	0.81
2:M:673:LEU:HD12	2:M:867:VAL:HA	1.61	0.81
3:N:112:ILE:HB	3:N:512:MET:HE3	1.62	0.81
2:M:297:GLU:HG2	2:M:298:PHE:H	1.45	0.80
3:I:912:LYS:O	3:I:915:VAL:HG23	1.81	0.80
3:N:412:GLY:HA2	3:N:434:ARG:HE	1.47	0.80
3:N:1102:THR:HA	3:N:1105:ILE:HD13	1.63	0.80
2:C:909:ALA:HB1	2:C:914:ILE:HD11	1.64	0.80
3:D:673:ALA:HA	3:D:676:MET:HG3	1.61	0.80
3:I:857:ILE:HG22	3:I:858:VAL:HG13	1.63	0.80
3:N:804:LEU:O	3:N:804:LEU:HD22	1.81	0.80
1:F:35:THR:HG21	1:G:43:ILE:CD1	2.10	0.80
2:H:367:LEU:HB3	2:H:371:LYS:HG2	1.62	0.80
3:N:1066:THR:HG23	3:N:1069:GLU:HB2	1.63	0.80
3:D:1320:GLU:H	3:D:1323:GLN:HE21	1.29	0.80
2:H:966:LEU:HD21	2:H:986:PRO:HG2	1.63	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:57:TYR:C	1:B:58:ILE:HD12	2.00	0.80
2:C:73:LEU:HD12	2:C:73:LEU:N	1.97	0.80
2:C:172:ILE:H	2:C:172:ILE:HD12	1.45	0.80
2:C:876:VAL:H	2:C:877:PRO:HD2	1.46	0.80
1:G:219:ARG:HB3	1:G:219:ARG:NH1	1.95	0.80
2:H:238:LEU:O	2:H:241:LEU:HB3	1.81	0.80
3:I:871:LYS:HG2	3:I:873:LEU:HG	1.63	0.80
2:M:154:ARG:NH1	2:M:157:ARG:H	1.79	0.80
2:C:94:LEU:O	2:C:94:LEU:HD13	1.82	0.80
3:D:90:MET:HG2	3:D:521:PRO:HD3	1.64	0.80
3:D:810:GLU:O	3:D:813:LEU:HG	1.81	0.80
2:M:495:THR:HG21	2:M:517:ARG:NH2	1.96	0.80
2:C:1100:GLN:HB3	3:D:9:ARG:HB3	1.64	0.80
1:G:99:LEU:HD12	1:G:99:LEU:H	1.46	0.80
2:C:89:THR:HA	2:C:129:ILE:O	1.82	0.80
3:N:708:LEU:H	3:N:708:LEU:HD12	1.45	0.80
3:N:1211:MET:HG2	3:N:1212:ALA:H	1.46	0.80
3:N:1364:HIS:CE1	3:N:1366:LYS:HG3	2.17	0.80
2:C:679:PHE:HB2	2:C:683:ASN:HD21	1.46	0.80
2:C:848:VAL:HG12	2:C:849:VAL:H	1.47	0.80
3:D:89:ARG:O	3:D:521:PRO:HG3	1.82	0.80
1:F:101:LEU:HG	1:F:114:PHE:HA	1.62	0.80
2:C:233:GLU:HA	2:C:236:ILE:HD13	1.63	0.79
3:D:358:GLY:N	3:D:385:VAL:HB	1.97	0.79
3:I:496:LEU:HD23	3:I:1388:ARG:HD3	1.62	0.79
3:I:843:PHE:HB2	3:I:866:VAL:HG22	1.64	0.79
1:F:124:ASN:HD22	1:F:127:LEU:HB2	1.47	0.79
2:M:334:ARG:HG2	2:M:338:GLU:OE2	1.82	0.79
1:A:14:ARG:HH22	2:C:934:PHE:HZ	1.30	0.79
2:H:988:VAL:HG12	3:I:948:THR:OG1	1.83	0.79
3:I:805:GLU:HA	3:I:832:ARG:CG	2.13	0.79
2:M:367:LEU:HD13	2:M:371:LYS:HG2	1.64	0.79
2:M:683:ASN:HD22	2:M:683:ASN:N	1.76	0.79
3:N:1363:LEU:HD23	3:N:1363:LEU:H	1.46	0.79
5:X:3:ARG:NH1	5:X:6:LYS:HE3	1.96	0.79
3:D:102:ILE:CD1	3:D:586:ARG:HH11	1.94	0.79
2:H:165:LEU:HB3	2:H:265:ARG:HH21	1.45	0.79
2:M:6:PHE:CD1	2:M:909:ALA:HB2	2.18	0.79
3:I:401:TYR:HB3	3:I:427:VAL:CG1	2.12	0.79
3:I:546:ARG:HB2	3:I:546:ARG:HH11	1.47	0.79
3:I:804:LEU:CD1	3:I:831:GLY:HA2	2.13	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:238:LEU:HD23	2:M:241:LEU:HD12	1.63	0.79
1:B:57:TYR:HE1	1:B:163:ASN:HD21	1.31	0.79
3:D:737:ASN:HD21	5:X:42:LEU:HD21	1.46	0.79
3:D:807:ALA:N	3:D:832:ARG:HG2	1.97	0.79
3:I:119:SER:HB2	3:I:123:LEU:HB2	1.63	0.79
3:I:670:VAL:HG13	3:I:671:LYS:H	1.48	0.79
3:I:1036:ARG:HB3	3:I:1036:ARG:HH11	1.48	0.79
1:K:88:ARG:HB3	1:K:88:ARG:HH11	1.48	0.79
3:N:347:VAL:HG13	3:N:351:MET:HB3	1.64	0.79
3:N:758:GLU:HB3	4:O:20:THR:HG21	1.64	0.79
2:C:69:LEU:HD11	2:C:99:GLN:HG2	1.65	0.79
3:D:1301:LYS:HA	3:D:1301:LYS:NZ	1.98	0.79
1:F:224:TYR:CE1	1:G:9:PRO:HD2	2.18	0.79
1:K:89:PHE:HB3	1:K:94:LEU:HD12	1.65	0.79
3:N:996:TRP:O	3:N:1000:THR:HG22	1.83	0.79
5:Y:106:SER:HA	5:Y:121:ASP:HB2	1.65	0.79
3:I:947:ILE:H	3:I:947:ILE:HD12	1.47	0.79
2:M:861:LEU:HD23	2:M:862:PRO:HD2	1.65	0.79
3:N:150:ARG:NH1	3:N:468:LEU:HD11	1.97	0.79
1:B:45:LEU:HD11	1:B:177:VAL:HG22	1.65	0.79
2:C:312:ALA:HB1	2:C:318:PRO:HG2	1.62	0.79
3:D:400:VAL:HG22	3:D:402:PRO:HD3	1.65	0.79
3:D:1394:VAL:HB	3:D:1397:LYS:HG3	1.64	0.79
1:F:197:LEU:HD23	1:F:197:LEU:H	1.46	0.79
2:H:304:LEU:HB3	2:H:305:PRO:HD3	1.64	0.79
2:H:474:VAL:HG11	2:H:529:VAL:HG12	1.65	0.79
3:I:150:ARG:HH22	3:I:468:LEU:HD11	1.48	0.79
3:I:690:ALA:O	3:I:694:VAL:HG23	1.83	0.79
3:N:168:THR:HG23	3:N:394:LEU:HD22	1.65	0.79
3:N:1209:LEU:HD23	3:N:1211:MET:N	1.97	0.79
2:C:141:HIS:CE1	2:C:332:ARG:HB3	2.18	0.79
3:D:716:PHE:O	3:D:718:PRO:HD3	1.82	0.79
3:D:719:VAL:O	3:D:721:VAL:HG13	1.83	0.79
2:H:205:GLU:O	2:H:209:ARG:HG2	1.83	0.79
2:H:393:GLN:NE2	2:H:409:ARG:HH21	1.81	0.79
3:N:550:ARG:CZ	3:N:573:MET:HB3	2.13	0.79
3:N:660:LYS:HD3	3:N:693:GLU:HG2	1.63	0.79
2:C:750:LYS:HG3	2:C:751:PRO:HD2	1.66	0.78
3:D:996:TRP:CA	3:D:999:THR:HG22	2.11	0.78
2:H:690:ILE:HG23	2:H:852:ILE:HG23	1.65	0.78
2:H:854:PRO:HB2	2:H:856:GLU:HG2	1.64	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:53:VAL:HA	1:L:144:VAL:HG22	1.65	0.78
2:M:25:SER:OG	2:M:335:THR:HB	1.83	0.78
1:B:100:LEU:HD22	1:B:100:LEU:N	1.98	0.78
2:C:404:LEU:HD11	2:C:591:SER:HA	1.63	0.78
1:G:213:GLN:O	1:G:217:ILE:HG12	1.83	0.78
2:H:80:GLN:HG2	2:H:90:TYR:HE2	1.48	0.78
2:M:1076:VAL:HG21	3:N:752:SER:HA	1.63	0.78
2:H:267:TYR:HB2	2:H:272:ALA:CB	2.13	0.78
1:L:45:LEU:HD11	1:L:177:VAL:HG22	1.64	0.78
1:L:81:ASN:ND2	1:L:129:ILE:HA	1.97	0.78
2:M:129:ILE:HD13	2:M:134:ARG:HG3	1.65	0.78
3:N:387:LEU:HD13	3:N:387:LEU:N	1.97	0.78
1:B:176:ARG:HG2	1:B:177:VAL:N	1.98	0.78
2:C:49:ARG:NH1	2:C:49:ARG:HB2	1.97	0.78
3:D:96:ALA:HB3	3:D:554:LEU:HD23	1.65	0.78
3:D:1120:VAL:HG21	3:D:1144:LEU:HD21	1.66	0.78
3:D:1252:ILE:HD11	3:D:1258:ARG:NH1	1.98	0.78
3:D:1461:GLY:H	3:D:1473:PRO:HG2	1.49	0.78
2:H:542:VAL:HG12	2:H:546:LEU:HD21	1.66	0.78
3:I:782:SER:O	3:I:786:ILE:HG12	1.83	0.78
3:I:1269:LYS:HG2	3:I:1270:ALA:N	1.98	0.78
1:F:56:VAL:HA	1:F:141:GLU:O	1.84	0.78
2:H:343:GLN:HG2	2:H:385:PHE:HB2	1.65	0.78
2:M:134:ARG:HH12	2:M:392:SER:C	1.87	0.78
2:M:572:ILE:HG12	2:M:573:ARG:N	1.98	0.78
2:C:1040:LEU:HD23	2:C:1049:LEU:HD13	1.65	0.78
2:H:1076:VAL:HG21	3:I:752:SER:HA	1.65	0.78
2:M:164:PRO:O	2:M:169:GLY:HA3	1.83	0.78
3:N:707:THR:HG23	3:N:712:GLY:HA3	1.65	0.78
5:X:6:LYS:HD2	5:X:85:LEU:CD1	2.13	0.78
3:D:737:ASN:HD21	5:X:42:LEU:CD2	1.96	0.78
3:I:644:LEU:H	3:I:721:VAL:HG21	1.49	0.78
2:M:89:THR:HG21	2:M:383:ARG:HH21	1.48	0.78
3:N:1107:VAL:O	3:N:1218:GLY:HA2	1.83	0.78
3:D:367:ILE:HD12	3:D:377:VAL:HG12	1.66	0.78
3:D:834:THR:OG1	3:D:838:ARG:HB2	1.82	0.78
3:D:1087:ARG:NE	3:D:1235:GLN:HA	1.98	0.78
3:D:1425:THR:O	3:D:1429:LEU:HD13	1.84	0.78
3:I:162:ARG:CD	3:I:452:ILE:HD12	2.13	0.78
3:I:800:LYS:NZ	3:I:830:ALA:HB3	1.98	0.78
2:M:115:LEU:HD12	2:M:378:LEU:HD22	1.63	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:991:GLN:HA	3:N:991:GLN:HE21	1.49	0.78
2:C:1031:ARG:HH21	3:D:621:LYS:NZ	1.81	0.78
4:E:54:LEU:HG	4:E:58:PRO:HG3	1.66	0.78
2:H:1045:ALA:HB1	2:H:1048:THR:HB	1.66	0.78
3:I:1295:GLU:HB3	3:I:1300:SER:HB3	1.66	0.78
2:M:679:PHE:HD2	2:M:680:ASP:H	1.31	0.78
2:M:754:ILE:HA	2:M:791:ARG:HA	1.66	0.78
5:Z:7:LEU:HD22	5:Z:109:GLU:HG3	1.63	0.78
2:C:689:VAL:HG12	2:C:690:ILE:H	1.48	0.78
3:D:141:ILE:HG23	3:D:448:GLU:CD	2.04	0.78
3:D:431:VAL:HG12	3:D:432:TYR:H	1.49	0.78
3:D:1147:ARG:HB2	3:D:1166:LEU:HD21	1.66	0.78
1:F:59:GLU:HG3	1:F:139:ASN:HB3	1.65	0.78
2:H:470:PRO:HG2	2:H:538:GLN:NE2	1.99	0.78
2:M:22:GLN:OE1	2:M:336:VAL:HG23	1.84	0.78
3:N:1404:ASN:HA	3:N:1408:ILE:HD13	1.66	0.78
1:B:76:VAL:HA	1:B:79:ILE:HG12	1.67	0.77
1:G:48:ILE:H	1:G:48:ILE:HD12	1.49	0.77
3:I:84:ILE:HG22	3:I:87:ARG:HH21	1.49	0.77
3:I:481:MET:HG2	3:I:1388:ARG:NH2	1.99	0.77
3:I:660:LYS:HG3	3:I:664:LYS:HE2	1.66	0.77
2:M:39:ARG:HA	2:M:39:ARG:HE	1.49	0.77
2:M:98:LEU:O	2:M:98:LEU:HD22	1.85	0.77
1:A:35:THR:HG21	1:B:43:ILE:HD11	1.66	0.77
3:D:477:LEU:O	3:D:481:MET:HG2	1.83	0.77
3:D:792:ILE:HD11	3:D:881:LEU:HD23	1.65	0.77
3:I:963:TYR:HE2	3:I:1002:LYS:HB3	1.49	0.77
1:K:229:GLN:HG3	1:K:230:ALA:H	1.48	0.77
2:M:107:LEU:O	2:M:108:ILE:HD13	1.84	0.77
1:B:117:VAL:HB	1:B:120:VAL:HG21	1.66	0.77
1:F:140:MET:N	1:F:140:MET:SD	2.57	0.77
2:H:806:LEU:HB2	2:H:822:VAL:HG22	1.67	0.77
1:K:184:THR:HG21	1:K:192:LEU:HD12	1.66	0.77
3:D:567:ILE:HG23	3:D:571:LYS:HZ3	1.49	0.77
3:N:95:LEU:HD21	3:N:574:LEU:HD21	1.66	0.77
2:C:976:ASP:OD1	2:C:978:ARG:HG3	1.83	0.77
3:D:1144:LEU:HD11	3:D:1186:VAL:HG21	1.66	0.77
2:H:270:GLY:HA2	2:H:274:ARG:HD2	1.66	0.77
2:H:329:GLY:HA3	2:H:489:THR:HG23	1.67	0.77
3:I:141:ILE:HD12	3:I:448:GLU:HG3	1.64	0.77
1:K:59:GLU:HB2	1:K:139:ASN:HD22	1.50	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:358:ARG:HA	2:M:361:MET:SD	2.24	0.77
2:M:383:ARG:HB2	2:M:383:ARG:HH11	1.49	0.77
1:A:86:VAL:HG12	1:A:124:ASN:HB2	1.65	0.77
1:G:118:ALA:O	1:G:120:VAL:HG22	1.83	0.77
2:M:897:LEU:HB3	2:M:899:GLN:HE21	1.49	0.77
2:C:712:ALA:HB3	2:C:821:GLU:HG3	1.67	0.77
2:H:983:ILE:CD1	3:I:944:THR:HA	2.12	0.77
2:H:1000:MET:HG3	2:H:1001:VAL:H	1.49	0.77
2:M:140:ILE:HG22	2:M:333:ILE:HD12	1.66	0.77
4:O:54:LEU:HG	4:O:58:PRO:HB3	1.67	0.77
3:D:829:VAL:HG12	3:D:830:ALA:H	1.49	0.77
1:F:101:LEU:HD23	1:F:102:LYS:H	1.48	0.77
2:H:840:ALA:HB2	2:H:846:LYS:HA	1.66	0.77
3:I:881:LEU:O	3:I:885:ILE:HG13	1.83	0.77
1:K:86:VAL:HG12	1:K:124:ASN:ND2	1.99	0.77
5:X:119:ILE:HG21	5:X:125:MET:HB3	1.66	0.77
2:C:673:LEU:HB3	2:C:868:ASP:CG	2.05	0.77
1:F:58:ILE:HA	1:F:139:ASN:O	1.84	0.77
1:K:64:GLU:HA	1:K:75:VAL:HG11	1.65	0.77
3:N:179:VAL:CG1	3:N:183:GLU:HB3	2.13	0.77
3:N:461:ILE:HG23	3:N:464:LEU:HD12	1.67	0.77
3:N:627:GLY:O	3:N:747:VAL:HG12	1.84	0.77
3:N:1108:ARG:HE	3:N:1199:GLY:HA3	1.50	0.77
2:C:611:ILE:HG13	2:C:625:LEU:HD11	1.64	0.77
3:D:637:LEU:HD21	3:D:642:CYS:HA	1.66	0.77
3:D:1449:GLU:HA	3:D:1452:ILE:HD13	1.66	0.77
2:H:838:LYS:HE2	2:H:999:HIS:HB2	1.65	0.77
3:I:676:MET:HB3	3:I:677:LEU:HD22	1.67	0.77
3:I:785:ILE:HD12	3:I:785:ILE:H	1.50	0.77
3:I:873:LEU:H	3:I:873:LEU:HD12	1.48	0.77
2:M:136:ILE:HD13	2:M:336:VAL:HG21	1.67	0.77
2:M:581:THR:OG1	2:M:583:LEU:HD13	1.85	0.77
2:M:668:LEU:H	2:M:668:LEU:HD12	1.49	0.77
3:N:112:ILE:HD12	3:N:115:LEU:HD13	1.67	0.77
1:B:115:LEU:HD12	1:B:115:LEU:O	1.85	0.76
3:D:1365:ASP:HA	3:D:1368:ILE:HD13	1.66	0.76
3:D:1498:ALA:HB3	4:E:84:ARG:HH21	1.49	0.76
1:F:141:GLU:HG3	1:F:161:ARG:HH12	1.49	0.76
2:H:328:LEU:HB2	2:H:433:THR:HG21	1.65	0.76
2:H:374:ASN:O	2:H:377:PRO:HD2	1.86	0.76
2:H:395:LYS:HG2	2:H:397:GLU:HG2	1.67	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:860:LEU:HD12	3:I:861:GLN:HE22	1.50	0.76
3:N:729:HIS:CD2	3:N:731:LEU:HB2	2.19	0.76
4:J:26:ARG:O	4:J:30:LEU:HD13	1.86	0.76
2:M:569:VAL:CG1	2:M:996:LYS:HB3	2.16	0.76
1:A:206:THR:HG22	1:A:209:GLU:HG2	1.66	0.76
2:C:258:TYR:HE2	2:C:290:LEU:HG	1.50	0.76
2:H:1092:LEU:O	2:H:1095:LEU:HD22	1.84	0.76
3:I:729:HIS:O	3:I:732:VAL:HG23	1.85	0.76
2:C:361:MET:HB2	3:I:1314:LYS:HD2	1.67	0.76
2:C:437:ARG:C	2:C:438:ILE:HD12	2.05	0.76
2:H:107:LEU:HD13	2:H:109:LYS:H	1.50	0.76
3:I:1206:GLY:O	3:I:1215:VAL:HG23	1.84	0.76
1:A:42:ARG:HH12	1:B:34:VAL:HB	1.49	0.76
3:D:141:ILE:HD12	3:D:448:GLU:HG3	1.66	0.76
3:I:1084:THR:HB	5:Y:43:ARG:HD3	1.68	0.76
3:N:704:ARG:NH1	3:N:705:ALA:H	1.84	0.76
3:N:1286:THR:O	3:N:1287:GLU:HB3	1.85	0.76
1:A:94:LEU:HD11	1:A:119:ASP:HB3	1.67	0.76
2:C:73:LEU:HB2	2:C:93:PRO:O	1.85	0.76
2:C:805:ARG:HG2	2:C:806:LEU:N	2.00	0.76
3:D:168:THR:OG1	3:D:394:LEU:HD22	1.86	0.76
2:H:979:THR:HG23	2:H:981:GLU:H	1.50	0.76
2:M:367:LEU:HD22	2:M:371:LYS:HE2	1.67	0.76
2:M:892:LEU:HD13	2:M:989:VAL:HG23	1.68	0.76
3:N:137:PRO:HG2	3:N:453:ASP:H	1.50	0.76
1:A:56:VAL:HA	1:A:141:GLU:O	1.85	0.76
1:A:140:MET:HE2	1:A:142:VAL:HG13	1.65	0.76
2:H:212:GLY:HA3	2:H:218:VAL:HB	1.66	0.76
2:H:328:LEU:CD1	2:H:433:THR:HB	2.07	0.76
3:I:12:LEU:H	3:I:12:LEU:HD12	1.49	0.76
2:M:1099:VAL:HG22	3:N:10:ILE:HD11	1.68	0.76
3:N:483:HIS:HB2	3:N:484:PRO:HD3	1.65	0.76
4:O:48:MET:HB2	4:O:54:LEU:HB2	1.68	0.76
2:H:342:ASP:O	2:H:345:ARG:HG2	1.86	0.76
2:H:498:GLN:OE1	3:I:1068:LEU:HD13	1.85	0.76
3:I:214:GLU:HB2	3:I:384:VAL:HG12	1.68	0.76
3:I:764:LEU:HD12	3:I:765:SER:H	1.51	0.76
2:M:756:VAL:CG2	2:M:790:LEU:HB3	2.14	0.76
3:N:834:THR:OG1	3:N:838:ARG:HB2	1.85	0.76
3:N:1127:GLU:HB2	3:N:1133:ARG:HE	1.50	0.76
2:M:107:LEU:CD1	2:M:109:LYS:H	1.98	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:520:LEU:HD21	3:N:524:LEU:HD23	1.68	0.76
1:G:219:ARG:HB3	1:G:219:ARG:HH11	1.48	0.76
2:C:473:ARG:HA	2:C:531:PHE:CD1	2.21	0.75
3:N:996:TRP:CD2	3:N:1056:PRO:HG2	2.21	0.75
3:N:1487:VAL:HG11	3:N:1492:LEU:HD23	1.69	0.75
2:C:734:LEU:HD12	2:C:737:LEU:HB3	1.67	0.75
3:D:1336:LEU:HD22	3:D:1421:LEU:HD23	1.66	0.75
2:H:1014:SER:CB	2:H:1019:GLN:H	2.00	0.75
3:I:111:LYS:HG3	3:I:1452:ILE:HD11	1.68	0.75
1:K:57:TYR:CD2	1:K:161:ARG:HD2	2.21	0.75
2:M:221:LEU:HD12	2:M:222:MET:N	2.01	0.75
2:M:565:GLN:HA	2:M:995:MET:CE	2.14	0.75
3:N:928:ALA:HA	3:N:931:LEU:HD12	1.68	0.75
2:C:111:ASP:O	2:C:113:VAL:HG23	1.84	0.75
3:D:1166:LEU:HD23	3:D:1166:LEU:H	1.52	0.75
2:H:1039:ALA:HB3	3:I:713:ILE:HD11	1.67	0.75
3:I:521:PRO:HB2	3:I:524:LEU:HD13	1.68	0.75
2:M:100:LEU:HD13	2:M:101:ILE:N	2.01	0.75
2:C:997:LEU:HD22	2:C:997:LEU:N	2.02	0.75
3:D:403:PHE:HB2	3:D:423:ASP:OD1	1.86	0.75
3:I:677:LEU:HD12	3:I:680:GLN:HG2	1.68	0.75
3:N:470:LEU:H	3:N:470:LEU:HD12	1.51	0.75
3:N:1481:VAL:HG11	4:O:18:ARG:HA	1.67	0.75
1:A:161:ARG:NH1	1:A:161:ARG:HB2	2.01	0.75
1:F:57:TYR:O	1:F:140:MET:HA	1.86	0.75
1:G:85:LEU:HD12	1:G:86:VAL:H	1.51	0.75
1:G:158:ILE:O	1:G:166:PRO:HG3	1.86	0.75
2:H:597:ALA:HB2	2:H:655:LEU:HD21	1.69	0.75
2:H:679:PHE:HD2	2:H:680:ASP:N	1.85	0.75
2:H:722:ILE:HD11	2:H:741:GLY:HA3	1.69	0.75
3:N:864:VAL:HG12	3:N:865:THR:H	1.52	0.75
3:N:908:LYS:HG3	3:N:909:ASN:H	1.51	0.75
1:B:227:ASN:HD22	1:B:227:ASN:H	1.34	0.75
2:C:181:VAL:HA	2:C:220:GLY:O	1.87	0.75
3:D:97:THR:HG21	3:D:571:LYS:HD2	1.68	0.75
3:D:207:PHE:CZ	2:H:283:ILE:HB	2.22	0.75
3:N:1147:ARG:HB3	3:N:1188:VAL:HG21	1.69	0.75
1:B:215:VAL:HA	1:B:218:LEU:HD23	1.67	0.75
2:C:267:TYR:HB2	2:C:272:ALA:CB	2.17	0.75
3:D:1213:ARG:NH2	4:E:10:PHE:HB3	2.02	0.75
1:F:42:ARG:NH1	1:G:34:VAL:HB	2.02	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:437:ARG:HG3	2:H:467:ILE:HG22	1.68	0.75
2:H:654:LEU:HD23	2:H:654:LEU:H	1.50	0.75
3:I:100:ALA:HB3	3:I:575:GLN:HE22	1.51	0.75
3:I:1493:LYS:HE2	3:I:1493:LYS:HA	1.68	0.75
2:M:73:LEU:HD22	2:M:74:GLY:N	2.02	0.75
3:N:141:ILE:HG22	3:N:162:ARG:HH22	1.52	0.75
2:C:603:VAL:HA	2:C:613:VAL:HG12	1.68	0.75
2:H:600:ASP:OD1	2:H:650:ARG:HA	1.87	0.75
3:I:361:VAL:HG23	3:I:383:GLY:O	1.87	0.75
3:I:475:LYS:HA	3:I:478:LEU:HD12	1.67	0.75
3:I:1146:GLY:CA	3:I:1207:TYR:HB2	2.16	0.75
2:M:513:VAL:HG23	2:M:524:VAL:O	1.87	0.75
2:M:705:ILE:HG22	2:M:706:GLU:H	1.52	0.75
3:N:526:PRO:HD2	3:N:538:SER:OG	1.85	0.75
3:D:116:LEU:CD2	3:D:468:LEU:HD12	2.16	0.75
3:I:728:LEU:HD12	3:I:729:HIS:H	1.51	0.75
2:M:139:GLN:HG3	2:M:334:ARG:HB2	1.69	0.75
3:D:135:LEU:HD23	3:D:136:ASP:H	1.52	0.74
3:D:141:ILE:HG23	3:D:448:GLU:OE2	1.86	0.74
3:D:828:LYS:HG2	3:D:863:VAL:HG22	1.67	0.74
3:D:1095:THR:O	3:D:1099:VAL:HG23	1.87	0.74
1:G:160:ASP:HB3	1:G:161:ARG:HH11	1.51	0.74
3:I:631:ILE:HD11	3:I:743:ASP:HB2	1.68	0.74
3:N:1408:ILE:HD12	3:N:1408:ILE:H	1.51	0.74
5:Z:82:VAL:HG22	5:Z:133:ARG:HH21	1.51	0.74
3:D:644:LEU:HD12	3:D:645:PRO:HD2	1.69	0.74
3:D:1122:LEU:HD13	3:D:1184:GLN:O	1.87	0.74
3:I:644:LEU:H	3:I:721:VAL:CG2	2.00	0.74
1:K:112:ARG:NE	1:K:125:PRO:HB3	2.00	0.74
1:K:167:VAL:HG12	1:K:168:ASP:H	1.51	0.74
3:N:138:LYS:HD3	3:N:138:LYS:H	1.51	0.74
3:N:642:CYS:SG	3:N:716:PHE:HB2	2.27	0.74
5:X:43:ARG:O	5:X:44:GLU:OE1	2.05	0.74
2:C:162:ILE:HD11	2:C:306:THR:HG21	1.70	0.74
1:K:59:GLU:HB2	1:K:139:ASN:ND2	2.02	0.74
1:K:72:LYS:NZ	2:M:644:VAL:HG12	2.03	0.74
2:M:368:THR:HB	2:M:369:PRO:CD	2.15	0.74
3:N:982:PHE:HE1	5:Z:117:MET:HB3	1.53	0.74
3:N:1264:GLU:OE2	3:N:1423:GLY:HA3	1.86	0.74
2:C:129:ILE:HD12	2:C:129:ILE:H	1.51	0.74
2:C:710:ILE:HB	2:C:790:LEU:HD13	1.67	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:172:PRO:HG2	3:I:175:VAL:HB	1.68	0.74
3:I:907:GLU:OE2	3:I:908:LYS:HB3	1.87	0.74
2:M:631:SER:HB3	2:M:635:THR:H	1.52	0.74
2:M:1052:MET:HE3	3:N:748:HIS:HB3	1.69	0.74
3:N:638:LYS:HB2	3:N:641:GLN:OE1	1.88	0.74
5:Y:144:LYS:HD3	5:Y:147:ARG:NH1	2.01	0.74
2:C:676:ILE:HG13	2:C:873:PRO:HG3	1.69	0.74
3:D:857:ILE:HG22	3:D:858:VAL:HG13	1.70	0.74
3:D:1481:VAL:HG13	4:E:18:ARG:HH21	1.52	0.74
1:F:197:LEU:HD23	1:F:197:LEU:N	2.02	0.74
2:H:442:GLU:HG2	2:H:454:SER:HB2	1.70	0.74
2:H:829:GLN:HG3	2:H:831:ARG:HH12	1.53	0.74
3:I:582:LEU:HA	3:I:603:LEU:HD12	1.70	0.74
2:M:31:GLN:NE2	2:M:34:VAL:HG22	2.03	0.74
3:N:129:PHE:C	3:N:568:ARG:HH21	1.89	0.74
3:N:150:ARG:HH12	3:N:468:LEU:HD11	1.51	0.74
2:C:304:LEU:HB3	2:C:305:PRO:HD3	1.69	0.74
3:D:1368:ILE:H	3:D:1368:ILE:HD12	1.49	0.74
1:B:58:ILE:CG1	1:B:140:MET:HB3	2.17	0.74
2:C:239:PHE:CE2	2:C:252:LYS:HA	2.22	0.74
3:D:805:GLU:HA	3:D:832:ARG:HD2	1.70	0.74
3:D:1364:HIS:CE1	3:D:1366:LYS:HG3	2.23	0.74
1:K:158:ILE:O	1:K:166:PRO:HG3	1.86	0.74
2:M:100:LEU:O	2:M:107:LEU:HD12	1.87	0.74
3:N:716:PHE:O	3:N:718:PRO:HD3	1.87	0.74
3:N:845:ASN:HD21	3:N:848:GLU:H	1.33	0.74
3:N:1397:LYS:HB2	3:N:1397:LYS:HZ3	1.53	0.74
5:Z:29:ILE:HD12	5:Z:58:ASN:ND2	2.02	0.74
3:D:466:LYS:HG2	3:D:510:GLU:HG3	1.70	0.74
3:D:1003:VAL:O	3:D:1007:VAL:HG23	1.88	0.74
3:D:1155:VAL:HG11	3:D:1183:ILE:HD12	1.69	0.74
1:F:76:VAL:O	1:F:79:ILE:HG13	1.86	0.74
2:M:15:LEU:HD22	2:M:15:LEU:H	1.51	0.74
1:A:75:VAL:O	1:A:79:ILE:HG23	1.87	0.74
2:C:91:GLN:HB3	2:C:117:HIS:HB2	1.70	0.74
4:J:54:LEU:HG	4:J:58:PRO:CB	2.18	0.74
4:O:68:LEU:HA	4:O:73:LEU:HD21	1.69	0.74
5:X:40:GLY:O	5:X:41:ASP:O	2.04	0.74
1:A:31:GLY:O	1:A:34:VAL:HG12	1.88	0.74
1:B:54:THR:HG21	1:B:143:ARG:NH2	2.01	0.74
3:D:844:ALA:HB1	3:D:867:ARG:NH1	2.03	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:100:LEU:CB	1:G:115:LEU:HD11	2.17	0.74
1:K:44:LEU:O	1:K:174:VAL:HG21	1.88	0.74
3:N:519:VAL:HA	3:N:544:TYR:OH	1.88	0.74
3:N:729:HIS:ND1	3:N:730:PRO:HD2	2.02	0.74
3:N:828:LYS:HG2	3:N:863:VAL:HG23	1.70	0.74
3:D:160:GLU:HG2	3:D:161:LEU:HD22	1.70	0.73
3:D:1029:ARG:HB3	3:D:1029:ARG:NH1	1.97	0.73
3:D:1229:ILE:O	3:D:1232:PRO:HD2	1.87	0.73
2:H:572:ILE:HG13	2:H:701:THR:O	1.88	0.73
2:H:678:PRO:HA	2:H:683:ASN:HD21	1.53	0.73
2:H:705:ILE:HD12	2:H:705:ILE:N	2.03	0.73
3:I:187:LYS:HE2	3:I:199:LEU:HG	1.68	0.73
3:I:860:LEU:HA	3:I:877:PRO:HB2	1.68	0.73
3:I:882:PHE:HA	3:I:885:ILE:HD12	1.68	0.73
3:I:908:LYS:H	3:I:1027:GLY:HA3	1.52	0.73
3:I:1485:GLN:HE21	4:J:79:LEU:N	1.86	0.73
1:K:151:VAL:HG13	1:K:155:LYS:HD2	1.69	0.73
2:M:334:ARG:HG2	2:M:338:GLU:CD	2.09	0.73
3:N:1272:ALA:CA	3:N:1326:THR:HB	2.18	0.73
2:C:350:ARG:HG2	2:C:353:ARG:HH21	1.53	0.73
1:K:87:VAL:HG12	1:K:122:ILE:CG1	2.17	0.73
1:L:76:VAL:HB	3:N:872:ARG:HH22	1.53	0.73
2:C:73:LEU:HD23	2:C:94:LEU:HA	1.70	0.73
2:H:154:ARG:HH22	2:H:178:PRO:CG	1.99	0.73
2:H:451:LEU:HB3	2:H:452:ILE:HD12	1.69	0.73
3:I:105:VAL:HG12	3:I:106:LYS:CE	2.17	0.73
4:J:41:GLU:OE2	4:J:42:PRO:HD3	1.88	0.73
2:M:181:VAL:HA	2:M:220:GLY:O	1.88	0.73
2:M:741:GLY:O	2:M:756:VAL:HA	1.88	0.73
3:N:51:GLY:HA3	3:N:86:ARG:HG3	1.67	0.73
3:N:1381:VAL:HG23	3:N:1391:GLU:O	1.88	0.73
5:Y:6:LYS:HB3	5:Y:75:LEU:HD12	1.69	0.73
2:C:50:GLU:OE2	2:C:345:ARG:HD2	1.88	0.73
2:C:198:ARG:NH1	2:C:203:ASP:HA	2.03	0.73
2:C:750:LYS:NZ	2:C:751:PRO:HD3	2.01	0.73
3:D:138:LYS:H	3:D:138:LYS:HE2	1.53	0.73
2:H:640:ARG:HB2	2:H:642:ARG:NH2	2.03	0.73
2:H:853:LEU:HD12	2:H:854:PRO:HD2	1.68	0.73
3:I:805:GLU:CD	3:I:816:HIS:HE2	1.91	0.73
4:J:54:LEU:HG	4:J:58:PRO:HB3	1.69	0.73
2:M:572:ILE:HG12	2:M:573:ARG:HG3	1.70	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:860:LEU:HA	3:N:877:PRO:HB2	1.70	0.73
3:N:1236:LEU:HB2	3:N:1256:LEU:HB2	1.70	0.73
2:C:750:LYS:HZ3	2:C:750:LYS:HA	1.52	0.73
3:I:433:GLY:HA3	3:I:449:SER:H	1.53	0.73
2:M:405:ARG:HD3	2:M:543:ASN:ND2	2.04	0.73
2:M:805:ARG:HG2	2:M:806:LEU:H	1.52	0.73
3:N:1397:LYS:HB2	3:N:1397:LYS:NZ	2.02	0.73
5:X:37:LEU:HD21	5:X:48:TYR:HE2	1.53	0.73
3:D:1282:ARG:NH2	3:D:1315:ASP:HB3	2.04	0.73
1:F:220:GLU:O	1:F:223:THR:HG22	1.89	0.73
3:I:122:GLU:O	3:I:126:VAL:HG23	1.89	0.73
1:K:87:VAL:HG12	1:K:122:ILE:HG12	1.70	0.73
2:M:942:GLU:O	2:M:945:ARG:HB3	1.89	0.73
3:N:525:ARG:CB	3:N:540:LEU:HD22	2.17	0.73
5:Z:19:LEU:HA	5:Z:65:LEU:HD13	1.70	0.73
3:D:365:ASP:H	3:D:379:ALA:HB3	1.54	0.73
3:D:554:LEU:HD11	3:D:571:LYS:HZ2	1.52	0.73
2:M:683:ASN:HA	2:M:687:ALA:HB3	1.70	0.73
2:C:803:THR:HG22	2:C:825:VAL:HA	1.70	0.73
2:H:334:ARG:HH11	2:H:418:LEU:HD21	1.54	0.73
3:I:119:SER:HB2	3:I:123:LEU:H	1.52	0.73
2:M:1012:PRO:HD3	2:M:1026:GLN:OE1	1.88	0.73
1:A:45:LEU:CD2	1:A:174:VAL:HB	2.19	0.73
1:K:231:ALA:HB2	1:L:14:ARG:HD3	1.70	0.73
2:M:749:VAL:HG11	2:M:755:LEU:HD21	1.71	0.73
2:M:790:LEU:O	2:M:790:LEU:HD23	1.89	0.73
4:O:39:VAL:HG22	4:O:67:GLU:HG2	1.71	0.73
2:C:471:TYR:H	2:C:483:VAL:HG13	1.53	0.73
2:C:750:LYS:NZ	2:C:750:LYS:HA	2.03	0.73
2:H:52:PHE:CD2	2:H:68:PHE:HB2	2.24	0.73
2:H:300:ASP:HB2	2:H:302:VAL:HG13	1.70	0.73
2:H:853:LEU:HD11	2:H:857:ASP:OD2	1.89	0.73
2:M:66:LEU:HD11	2:M:98:LEU:HD23	1.70	0.73
2:M:1016:ILE:H	2:M:1016:ILE:HD13	1.53	0.73
1:A:102:LYS:HA	1:A:138:LEU:CG	2.19	0.72
3:I:150:ARG:HH12	3:I:468:LEU:HD11	1.53	0.72
2:M:134:ARG:HH12	2:M:393:GLN:N	1.86	0.72
3:N:828:LYS:HD3	3:N:862:ASP:HA	1.69	0.72
3:N:939:PHE:O	3:N:943:THR:HG23	1.89	0.72
5:Y:16:MET:CE	5:Y:69:LEU:HD13	2.19	0.72
2:C:86:LYS:HE2	2:C:813:VAL:HB	1.70	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:627:GLY:O	3:D:747:VAL:HG12	1.89	0.72
3:D:1183:ILE:HD13	3:D:1183:ILE:H	1.54	0.72
2:M:542:VAL:HG12	2:M:546:LEU:HD21	1.71	0.72
2:M:658:GLY:H	2:M:661:SER:HB3	1.55	0.72
3:N:1083:ASP:HB3	3:N:1237:THR:HG21	1.70	0.72
3:N:1201:CYS:SG	3:N:1204:CYS:HB2	2.28	0.72
2:C:1016:ILE:HG13	2:C:1017:THR:H	1.52	0.72
3:D:170:PRO:O	3:D:171:LEU:HD23	1.89	0.72
2:H:367:LEU:HD22	2:H:371:LYS:HB2	1.70	0.72
2:H:673:LEU:O	2:H:868:ASP:HB2	1.89	0.72
2:H:952:LEU:HD12	2:H:969:GLN:HE22	1.53	0.72
3:I:684:LYS:HB2	3:I:687:VAL:HG23	1.70	0.72
3:I:833:GLU:HG2	1:L:161:ARG:HH22	1.53	0.72
1:L:91:ASN:HD22	1:L:91:ASN:H	1.37	0.72
3:N:1065:LEU:HD11	3:N:1069:GLU:CB	2.18	0.72
1:A:44:LEU:HD11	1:A:199:ILE:HD13	1.70	0.72
1:A:161:ARG:HB2	1:A:161:ARG:HH11	1.54	0.72
1:B:106:PRO:HG2	1:B:134:GLU:OE1	1.89	0.72
4:E:54:LEU:HG	4:E:58:PRO:CG	2.19	0.72
2:H:241:LEU:HD23	2:H:242:LEU:N	2.04	0.72
3:I:543:LEU:HD21	3:I:600:LEU:HB2	1.71	0.72
1:K:58:ILE:CD1	1:K:140:MET:HB3	2.20	0.72
1:K:209:GLU:HA	1:K:212:ASN:HD21	1.55	0.72
1:K:211:LEU:O	1:K:215:VAL:HG23	1.89	0.72
1:L:58:ILE:HG23	1:L:139:ASN:O	1.88	0.72
3:N:1208:ASP:O	3:N:1215:VAL:HG22	1.88	0.72
3:N:1379:VAL:HG22	3:N:1398:TRP:NE1	2.03	0.72
3:D:171:LEU:HD12	3:D:390:PRO:O	1.88	0.72
3:D:187:LYS:HB2	3:D:200:ASP:OD2	1.90	0.72
1:F:213:GLN:O	1:F:217:ILE:HG12	1.89	0.72
2:H:632:ASN:HB2	2:H:633:GLN:HE21	1.54	0.72
2:M:331:ARG:NH2	2:M:427:VAL:HG21	2.03	0.72
2:M:871:LEU:HD13	2:M:872:ASN:N	2.05	0.72
3:N:1368:ILE:H	3:N:1368:ILE:HD12	1.55	0.72
1:B:52:ALA:O	1:B:144:VAL:HG13	1.89	0.72
1:B:80:LEU:HG	3:D:844:ALA:HB2	1.70	0.72
2:C:208:ALA:HB2	2:C:222:MET:HG3	1.71	0.72
3:D:366:LYS:HE2	3:D:369:ALA:HB2	1.69	0.72
3:D:525:ARG:HB2	3:D:540:LEU:HD23	1.70	0.72
4:E:41:GLU:HG2	4:E:42:PRO:HD3	1.71	0.72
2:H:911:GLU:HB3	2:H:912:PRO:HD3	1.71	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:1000:THR:O	3:I:1003:VAL:HG13	1.90	0.72
3:I:1095:THR:O	3:I:1099:VAL:HG23	1.89	0.72
2:M:749:VAL:HG11	2:M:755:LEU:CD2	2.20	0.72
3:N:767:HIS:HA	3:N:924:MET:SD	2.30	0.72
3:N:976:GLN:HA	3:N:979:GLU:OE1	1.90	0.72
5:Z:44:GLU:O	5:Z:46:ALA:N	2.22	0.72
2:C:99:GLN:HB3	2:C:110:GLU:HB3	1.72	0.72
1:F:76:VAL:HA	1:F:79:ILE:HG12	1.72	0.72
2:H:12:VAL:HG13	2:H:13:ILE:N	2.02	0.72
3:I:957:PRO:HG2	3:I:1007:VAL:HG22	1.70	0.72
2:M:267:TYR:HB2	2:M:272:ALA:HB1	1.72	0.72
4:O:70:THR:HG22	4:O:72:ARG:HG3	1.71	0.72
1:A:24:VAL:HA	1:A:196:THR:HG22	1.71	0.72
1:A:177:VAL:HG22	1:A:199:ILE:HG23	1.70	0.72
1:A:212:ASN:HD22	1:A:212:ASN:N	1.85	0.72
2:C:448:ASN:HA	2:C:451:LEU:HD12	1.72	0.72
2:C:876:VAL:N	2:C:877:PRO:HD2	2.04	0.72
2:H:331:ARG:NH1	2:H:427:VAL:HG11	2.05	0.72
2:H:577:PRO:HD2	2:H:580:MET:CE	2.20	0.72
3:I:820:GLU:HG2	3:I:825:ALA:O	1.90	0.72
2:M:134:ARG:HH22	2:M:393:GLN:HA	1.54	0.72
1:B:56:VAL:HG23	1:B:167:VAL:HG21	1.71	0.72
2:C:975:TYR:HA	2:C:982:PRO:HA	1.72	0.72
3:D:525:ARG:HB2	3:D:540:LEU:CD2	2.20	0.72
3:D:1029:ARG:HH11	3:D:1029:ARG:CB	1.97	0.72
1:F:167:VAL:HG12	1:F:168:ASP:H	1.53	0.72
2:H:383:ARG:HB2	2:H:383:ARG:NH1	2.04	0.72
3:N:465:LEU:HD22	3:N:509:PRO:HB2	1.72	0.72
2:C:146:VAL:HG11	2:C:281:LEU:CD2	2.19	0.72
3:D:846:PRO:HB3	3:D:880:ILE:HD11	1.70	0.72
3:D:1271:LYS:HD2	3:D:1334:GLN:HE22	1.55	0.72
2:H:88:LEU:HD13	2:H:89:THR:H	1.55	0.72
2:H:760:SER:HG	2:H:786:LYS:N	1.87	0.72
2:M:300:ASP:HB2	2:M:302:VAL:HG13	1.72	0.72
3:N:365:ASP:H	3:N:379:ALA:HB3	1.54	0.72
3:N:613:ARG:O	3:N:613:ARG:HD3	1.90	0.72
3:N:809:PRO:O	3:N:812:ALA:HB3	1.90	0.72
3:D:910:SER:HG	3:D:911:LEU:HD12	1.55	0.71
2:H:267:TYR:HB2	2:H:272:ALA:HB1	1.72	0.71
2:H:749:VAL:C	2:H:750:LYS:HD2	2.10	0.71
3:I:882:PHE:O	3:I:886:VAL:HG23	1.89	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:63:HIS:HB3	2:M:799:ILE:HG21	1.72	0.71
2:M:946:ARG:HB3	2:M:946:ARG:NH1	2.04	0.71
2:M:1051:GLU:OE1	3:N:750:PRO:HA	1.90	0.71
3:N:351:MET:HG2	3:N:368:VAL:HG12	1.71	0.71
3:N:459:GLU:O	3:N:462:GLN:HB3	1.90	0.71
3:N:930:LEU:CD1	3:N:934:LEU:HD21	2.19	0.71
4:O:40:LEU:HD13	4:O:72:ARG:HH22	1.55	0.71
1:A:167:VAL:HG12	1:A:168:ASP:H	1.54	0.71
3:D:209:ARG:HB3	3:D:389:GLU:HB2	1.71	0.71
3:D:571:LYS:O	3:D:574:LEU:HB3	1.89	0.71
3:D:1160:LEU:HD21	3:D:1164:ARG:HD2	1.72	0.71
3:I:804:LEU:HD21	3:I:831:GLY:N	2.04	0.71
2:M:30:LEU:HA	2:M:44:ILE:HD13	1.72	0.71
2:M:224:GLU:O	2:M:228:ALA:HB3	1.90	0.71
1:B:108:GLU:HA	1:B:131:THR:HG22	1.71	0.71
2:C:630:ARG:NH2	2:C:707:ARG:H	1.87	0.71
3:D:44:LEU:H	3:D:44:LEU:HD12	1.55	0.71
3:D:135:LEU:HD23	3:D:136:ASP:N	2.05	0.71
3:D:169:TYR:HB2	3:D:393:ILE:O	1.89	0.71
3:D:1205:TYR:CE2	3:D:1215:VAL:HG21	2.24	0.71
3:I:26:VAL:HG22	3:I:49:ILE:HD13	1.73	0.71
3:I:804:LEU:CD2	3:I:831:GLY:HA2	2.18	0.71
3:I:868:TYR:CD1	3:I:869:MET:HG2	2.25	0.71
3:I:1156:LEU:HD13	3:I:1176:LYS:HE3	1.72	0.71
1:L:143:ARG:NH2	1:L:158:ILE:HG21	2.05	0.71
2:M:195:LEU:O	2:M:199:VAL:HG23	1.89	0.71
2:M:267:TYR:HB2	2:M:272:ALA:CB	2.20	0.71
2:C:794:PRO:HB3	2:C:1027:PHE:CE1	2.26	0.71
2:C:1081:VAL:HG13	2:C:1085:PHE:HD1	1.53	0.71
3:D:1301:LYS:HG3	3:D:1303:TYR:CE1	2.25	0.71
2:H:976:ASP:OD2	2:H:978:ARG:HB2	1.90	0.71
3:D:87:ARG:HB2	3:D:524:LEU:CD1	2.21	0.71
3:D:864:VAL:HG12	3:D:865:THR:H	1.52	0.71
3:D:1106:VAL:HG13	3:D:1219:GLU:O	1.91	0.71
3:D:1333:HIS:HA	3:D:1421:LEU:HD21	1.72	0.71
3:D:1379:VAL:HG22	3:D:1398:TRP:CE2	2.25	0.71
2:H:292:ARG:HG2	2:H:299:LYS:HG2	1.71	0.71
2:H:940:GLU:HG2	2:H:973:VAL:HG21	1.72	0.71
3:I:484:PRO:HB3	3:I:488:ARG:NE	2.03	0.71
3:I:805:GLU:HA	3:I:832:ARG:HG2	1.72	0.71
2:M:107:LEU:HD13	2:M:108:ILE:N	2.06	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:480:THR:HG22	2:M:482:GLU:N	2.00	0.71
3:N:1262:LEU:HD23	3:N:1352:ILE:HD13	1.71	0.71
3:D:849:ALA:O	3:D:853:VAL:HG23	1.90	0.71
2:H:73:LEU:HD12	2:H:74:GLY:N	2.06	0.71
2:H:176:VAL:O	2:H:178:PRO:HD3	1.90	0.71
3:I:581:LEU:HD23	3:I:581:LEU:H	1.53	0.71
3:I:1209:LEU:HD12	3:I:1210:SER:H	1.55	0.71
2:M:374:ASN:HD22	2:M:374:ASN:N	1.89	0.71
4:O:37:ASN:HD22	4:O:37:ASN:N	1.87	0.71
3:D:111:LYS:HG2	3:D:1452:ILE:HD11	1.72	0.71
3:D:162:ARG:NE	3:D:452:ILE:HG12	2.06	0.71
3:D:1170:ASP:O	3:D:1174:LEU:HG	1.91	0.71
1:F:101:LEU:H	1:F:140:MET:HE1	1.55	0.71
2:H:199:VAL:HG21	2:H:238:LEU:HD12	1.73	0.71
2:H:569:VAL:HG11	2:H:996:LYS:HB2	1.73	0.71
2:H:703:ILE:HD12	2:H:703:ILE:H	1.55	0.71
2:M:611:ILE:HG13	2:M:625:LEU:HD11	1.73	0.71
3:N:165:LYS:HB3	3:N:165:LYS:NZ	2.05	0.71
2:C:475:VAL:O	2:C:478:VAL:HG23	1.88	0.71
2:C:584:GLU:H	2:C:584:GLU:CD	1.93	0.71
3:D:365:ASP:H	3:D:379:ALA:HB2	1.56	0.71
3:D:1263:PHE:CE2	3:D:1371:VAL:HG11	2.26	0.71
3:D:1301:LYS:HA	3:D:1301:LYS:HZ2	1.52	0.71
2:H:98:LEU:HD22	2:H:98:LEU:H	1.55	0.71
2:H:139:GLN:HE22	2:H:415:PRO:CD	2.04	0.71
2:H:224:GLU:O	2:H:228:ALA:HB3	1.91	0.71
2:H:859:PRO:O	2:H:867:VAL:HG13	1.91	0.71
3:I:996:TRP:CE2	3:I:1056:PRO:HG2	2.26	0.71
1:K:62:LEU:HB3	2:M:746:GLY:HA3	1.73	0.71
1:L:117:VAL:HG12	1:L:118:ALA:H	1.56	0.71
3:N:1405:GLU:OE2	3:N:1406:ARG:HB2	1.91	0.71
5:Z:115:THR:HB	5:Z:116:PRO:HD3	1.73	0.71
2:C:290:LEU:CB	2:C:302:VAL:HG11	2.18	0.71
2:H:802:ARG:O	2:H:803:THR:HG23	1.90	0.71
2:H:863:ASP:O	2:H:865:THR:HG22	1.91	0.71
2:M:89:THR:HA	2:M:129:ILE:O	1.90	0.71
2:M:447:ALA:HA	3:N:1085:ALA:HB1	1.72	0.71
2:C:668:LEU:HD12	2:C:668:LEU:H	1.55	0.71
2:C:713:ARG:HE	2:C:758:ARG:NH2	1.88	0.71
2:C:1030:GLN:HA	3:D:622:ARG:HH11	1.53	0.71
3:D:1103:HIS:NE2	3:D:1463:LYS:HD2	2.06	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:1033:GLY:O	2:H:1037:VAL:HG23	1.90	0.71
3:I:474:GLU:O	3:I:478:LEU:HG	1.90	0.71
3:I:574:LEU:O	3:I:578:VAL:HG23	1.91	0.71
2:M:858:MET:HE2	2:M:859:PRO:HD2	1.73	0.71
3:N:1231:GLU:HB3	3:N:1232:PRO:HD3	1.73	0.71
3:D:18:ILE:HG23	3:D:518:PRO:HG3	1.73	0.70
4:E:48:MET:HB2	4:E:54:LEU:HB2	1.72	0.70
2:H:90:TYR:HD1	2:H:120:LEU:HD23	1.55	0.70
3:I:150:ARG:NH2	3:I:468:LEU:HD11	2.04	0.70
3:I:1493:LYS:O	3:I:1497:GLU:HG2	1.90	0.70
3:N:347:VAL:CG1	3:N:351:MET:HB3	2.20	0.70
5:X:36:ALA:HA	5:X:39:GLU:OE1	1.90	0.70
2:H:889:HIS:HE1	3:I:951:ILE:H	1.39	0.70
2:H:1109:VAL:HG11	3:I:5:VAL:HG22	1.72	0.70
3:I:636:GLN:HE21	3:I:637:LEU:H	1.37	0.70
3:I:908:LYS:HB2	3:I:1027:GLY:HA3	1.73	0.70
3:I:996:TRP:CD2	3:I:1056:PRO:HG2	2.26	0.70
2:M:212:GLY:HA3	2:M:218:VAL:HB	1.72	0.70
3:N:141:ILE:HG22	3:N:162:ARG:NH2	2.05	0.70
3:N:493:ARG:NE	3:N:1390:LEU:HD23	2.06	0.70
3:N:996:TRP:HA	3:N:999:THR:CG2	2.22	0.70
3:N:1095:THR:O	3:N:1099:VAL:HG23	1.92	0.70
1:F:99:LEU:HD22	1:F:99:LEU:H	1.56	0.70
1:F:109:VAL:HB	1:F:130:ALA:N	2.07	0.70
1:F:177:VAL:HG13	1:F:199:ILE:CD1	2.21	0.70
2:H:803:THR:CG2	2:H:825:VAL:HA	2.19	0.70
3:I:996:TRP:HA	3:I:999:THR:HG22	1.71	0.70
2:M:18:LEU:H	2:M:18:LEU:CD1	2.04	0.70
3:N:358:GLY:N	3:N:385:VAL:HB	2.06	0.70
3:N:1000:THR:O	3:N:1003:VAL:HG22	1.91	0.70
2:C:263:ASP:HB2	2:C:264:PRO:HD3	1.73	0.70
2:C:470:PRO:HG2	2:C:538:GLN:NE2	2.06	0.70
2:C:674:VAL:HG12	2:C:990:GLY:O	1.91	0.70
2:H:542:VAL:O	2:H:546:LEU:HG	1.90	0.70
2:H:575:GLN:NE2	2:H:671:ASN:H	1.87	0.70
2:H:732:ALA:HA	2:H:735:ARG:NH2	2.05	0.70
3:N:1272:ALA:CB	3:N:1326:THR:HB	2.21	0.70
2:C:839:LEU:N	2:C:839:LEU:HD23	2.06	0.70
3:D:156:GLU:HA	3:D:159:ARG:NH2	2.06	0.70
3:D:569:ASN:HA	3:D:572:ARG:HD3	1.73	0.70
3:D:805:GLU:HG3	3:D:809:PRO:HG2	1.74	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:910:SER:OG	3:D:911:LEU:HD12	1.92	0.70
3:I:153:LEU:H	3:I:153:LEU:HD12	1.57	0.70
3:I:613:ARG:HH11	3:I:613:ARG:HA	1.55	0.70
3:I:782:SER:HB3	3:I:783:ARG:HD2	1.73	0.70
3:I:1266:ARG:O	3:I:1268:PRO:HD3	1.91	0.70
1:K:92:PRO:HA	1:K:146:ARG:NH2	2.06	0.70
3:N:1258:ARG:CZ	3:N:1262:LEU:HD11	2.20	0.70
5:X:140:LEU:O	5:X:146:ARG:HG3	1.90	0.70
2:C:673:LEU:O	2:C:868:ASP:HB2	1.90	0.70
2:C:857:ASP:HB2	2:C:978:ARG:HG2	1.72	0.70
1:F:115:LEU:HD12	1:F:115:LEU:O	1.91	0.70
2:H:881:ASN:HD22	2:H:884:GLN:NE2	1.89	0.70
2:H:913:GLU:O	2:H:917:LEU:HD12	1.92	0.70
2:M:928:LYS:HA	2:M:928:LYS:NZ	2.07	0.70
3:N:767:HIS:CE1	4:O:6:ILE:HD12	2.25	0.70
5:Z:129:LEU:HD23	5:Z:138:LEU:HD11	1.74	0.70
1:A:39:PRO:CG	1:B:39:PRO:HG3	2.20	0.70
2:C:612:VAL:HG22	2:C:622:GLU:HG3	1.73	0.70
2:C:636:ALA:CB	2:C:703:ILE:HD13	2.21	0.70
3:D:207:PHE:HB2	3:D:391:ALA:HB2	1.74	0.70
3:D:537:THR:O	3:D:538:SER:C	2.30	0.70
2:H:15:LEU:H	2:H:15:LEU:HD12	1.55	0.70
2:H:572:ILE:CD1	2:H:573:ARG:H	2.04	0.70
2:M:26:TYR:CE2	2:M:30:LEU:HD21	2.27	0.70
2:M:876:VAL:N	2:M:877:PRO:HD2	2.03	0.70
2:M:1015:LEU:H	2:M:1015:LEU:HD12	1.55	0.70
3:N:168:THR:HA	3:N:394:LEU:HB3	1.74	0.70
3:N:625:TYR:CE1	3:N:751:LEU:HD11	2.26	0.70
3:N:1082:ALA:O	3:N:1086:LEU:HD13	1.92	0.70
4:O:31:LEU:HD12	4:O:32:ARG:N	2.05	0.70
1:A:66:SER:O	1:A:75:VAL:HG23	1.91	0.70
2:C:154:ARG:NH1	2:C:178:PRO:HG3	2.06	0.70
2:C:710:ILE:HD11	2:C:758:ARG:HH11	1.57	0.70
2:C:1029:GLY:HA2	3:D:626:SER:HB2	1.72	0.70
3:I:31:THR:HA	3:I:44:LEU:HD13	1.74	0.70
3:I:704:ARG:HE	3:I:706:PRO:HD2	1.56	0.70
3:I:804:LEU:CG	3:I:831:GLY:HA2	2.22	0.70
3:N:729:HIS:HE1	3:N:935:LYS:HD3	1.56	0.70
1:B:85:LEU:HA	1:B:124:ASN:HD22	1.57	0.70
2:C:89:THR:HG21	2:C:383:ARG:NH2	2.06	0.70
2:C:572:ILE:HD12	2:C:701:THR:O	1.92	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:878:SER:HB3	3:D:1029:ARG:HH12	1.56	0.70
2:H:66:LEU:HD22	2:H:372:LEU:HD23	1.74	0.70
2:H:754:ILE:HD11	2:H:791:ARG:NH1	2.06	0.70
2:H:943:VAL:HG23	2:H:985:GLY:H	1.56	0.70
2:M:838:LYS:HG3	2:M:997:LEU:HD23	1.73	0.70
3:N:151:GLN:HG3	3:N:152:LEU:N	2.05	0.70
2:C:211:LEU:HD21	2:C:221:LEU:HD21	1.72	0.70
3:D:539:ASP:OD1	3:D:600:LEU:HA	1.91	0.70
3:D:710:ARG:HG3	3:D:711:LEU:N	2.06	0.70
2:H:165:LEU:HD21	2:H:418:LEU:HD11	1.74	0.70
3:I:886:VAL:HG13	3:I:930:LEU:HD11	1.72	0.70
2:M:109:LYS:HB3	2:M:368:THR:HG21	1.74	0.70
2:M:578:VAL:HG11	2:M:991:GLN:HE21	1.57	0.70
3:N:769:LEU:O	3:N:778:LEU:HD22	1.91	0.70
2:H:183:SER:C	2:H:193:LEU:HD11	2.12	0.69
3:I:169:TYR:CE2	3:I:197:SER:HA	2.27	0.69
4:J:48:MET:SD	4:J:54:LEU:HD12	2.32	0.69
2:M:521:PRO:HB3	3:N:1068:LEU:HD21	1.73	0.69
3:N:983:LEU:HD23	3:N:983:LEU:H	1.57	0.69
3:N:1379:VAL:HG21	3:N:1417:TRP:HB2	1.71	0.69
2:C:183:SER:C	2:C:193:LEU:HD11	2.12	0.69
2:C:350:ARG:HG2	2:C:353:ARG:NH2	2.07	0.69
4:E:37:ASN:HD22	4:E:37:ASN:N	1.90	0.69
2:H:450:GLY:HA2	3:I:1078:ARG:HH11	1.55	0.69
2:H:537:LYS:N	2:H:537:LYS:HE3	2.06	0.69
3:N:82:LYS:HG2	3:N:83:SER:H	1.56	0.69
3:N:1035:ILE:HA	3:N:1038:LEU:HD12	1.74	0.69
3:N:1083:ASP:HB3	3:N:1237:THR:CG2	2.22	0.69
1:G:19:GLU:HA	1:G:201:THR:HG23	1.74	0.69
2:H:139:GLN:HE22	2:H:415:PRO:HD2	1.56	0.69
2:H:164:PRO:O	2:H:169:GLY:HA3	1.92	0.69
2:H:1081:VAL:HB	2:H:1086:ARG:HH22	1.57	0.69
3:I:477:LEU:HD11	3:I:495:ARG:HG2	1.74	0.69
3:I:586:ARG:NH2	3:I:1444:THR:HG21	2.07	0.69
3:N:845:ASN:OD1	3:N:847:ASP:HB2	1.92	0.69
5:X:44:GLU:OE1	5:X:44:GLU:CA	2.40	0.69
5:Y:44:GLU:O	5:Y:44:GLU:OE2	2.11	0.69
2:C:576:ALA:HB3	2:C:900:ARG:NH1	2.07	0.69
3:D:800:LYS:HA	3:D:829:VAL:CG1	2.21	0.69
3:D:1183:ILE:HD13	3:D:1183:ILE:N	2.08	0.69
1:F:35:THR:O	1:F:39:PRO:HG2	1.92	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:184:MET:HB2	2:H:193:LEU:HG	1.75	0.69
2:H:831:ARG:HG2	2:H:831:ARG:HH11	1.57	0.69
3:I:1461:GLY:H	3:I:1473:PRO:HG2	1.57	0.69
2:M:31:GLN:HE22	2:M:34:VAL:HG22	1.55	0.69
3:N:9:ARG:O	3:N:10:ILE:HD12	1.91	0.69
5:Y:55:MET:O	5:Y:59:GLU:HG3	1.91	0.69
1:B:199:ILE:HG12	1:B:211:LEU:HD11	1.73	0.69
2:C:572:ILE:CD1	2:C:573:ARG:H	2.04	0.69
2:C:580:MET:HB3	2:C:584:GLU:OE1	1.92	0.69
2:C:1012:PRO:HB2	2:C:1021:LEU:O	1.92	0.69
3:D:101:HIS:NE2	3:D:582:LEU:HD21	2.07	0.69
1:F:91:ASN:HB3	1:F:94:LEU:CD1	2.23	0.69
2:H:906:PHE:CE1	3:I:1067:VAL:HA	2.28	0.69
2:M:334:ARG:NH1	2:M:415:PRO:HG2	2.07	0.69
2:M:867:VAL:HG21	2:M:870:ILE:HD11	1.74	0.69
3:N:1197:ARG:HG3	3:N:1198:TYR:H	1.55	0.69
2:C:598:GLU:HB2	2:C:615:TYR:OH	1.93	0.69
3:D:1344:VAL:O	3:D:1348:LEU:HD13	1.92	0.69
3:D:1462:LEU:O	3:D:1466:VAL:HG23	1.92	0.69
1:G:19:GLU:HG3	1:G:201:THR:O	1.92	0.69
2:H:674:VAL:HG12	2:H:990:GLY:O	1.91	0.69
2:H:1049:LEU:HD23	2:H:1050:GLN:N	2.08	0.69
3:I:581:LEU:O	3:I:602:SER:HB2	1.92	0.69
3:I:806:PHE:HE1	3:I:813:LEU:HB3	1.55	0.69
3:I:951:ILE:O	3:I:951:ILE:HD13	1.92	0.69
3:I:1289:LYS:HE2	3:I:1306:PRO:HG3	1.74	0.69
2:M:326:ASP:HA	2:M:331:ARG:HD2	1.73	0.69
2:M:1066:ALA:HA	2:M:1077:PRO:CD	2.21	0.69
1:B:159:LYS:H	1:B:159:LYS:HD3	1.55	0.69
2:C:636:ALA:HB2	2:C:703:ILE:HB	1.75	0.69
2:C:994:ILE:HG22	2:C:995:MET:H	1.56	0.69
2:C:1055:LEU:HG	2:C:1079:PRO:HG2	1.73	0.69
2:C:1067:TYR:O	2:C:1071:ILE:HG12	1.93	0.69
1:G:90:LEU:CB	1:G:119:ASP:HB3	2.23	0.69
2:H:151:ASP:CG	2:H:152:PRO:HD2	2.13	0.69
3:I:143:ASN:CB	3:I:161:LEU:HD13	2.21	0.69
3:I:783:ARG:HG2	3:I:784:ASP:H	1.55	0.69
3:N:185:VAL:HG21	3:N:203:ALA:HB3	1.75	0.69
3:N:1115:THR:HG23	3:N:1189:ARG:NH2	2.05	0.69
5:Z:116:PRO:HD2	5:Z:118:LYS:NZ	2.07	0.69
2:C:676:ILE:CG2	2:C:988:VAL:HG13	2.21	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:794:PRO:HB3	2:C:1027:PHE:HE1	1.57	0.69
2:C:1070:ILE:HD11	2:C:1076:VAL:HG12	1.75	0.69
3:D:1111:ASP:HA	3:D:1201:CYS:SG	2.33	0.69
3:D:1205:TYR:HD2	3:D:1215:VAL:HG21	1.52	0.69
3:D:1465:ASN:HD21	3:D:1470:ARG:HB3	1.57	0.69
2:H:344:PHE:HE2	2:H:378:LEU:HD21	1.57	0.69
2:H:1063:ARG:HD3	2:H:1064:ASN:N	2.07	0.69
3:I:136:ASP:HB3	3:I:137:PRO:CD	2.21	0.69
3:I:466:LYS:HG2	3:I:510:GLU:HG2	1.74	0.69
3:I:710:ARG:NH2	3:I:1210:SER:HB2	2.07	0.69
3:I:788:GLY:O	3:I:792:ILE:HG22	1.93	0.69
3:I:1103:HIS:CD2	3:I:1463:LYS:HB2	2.28	0.69
3:I:1148:VAL:HG13	3:I:1163:GLY:HA2	1.75	0.69
3:I:1426:LYS:HA	3:I:1429:LEU:HD22	1.75	0.69
1:K:62:LEU:HD13	2:M:745:ILE:O	1.93	0.69
2:M:141:HIS:HB3	2:M:418:LEU:HB2	1.74	0.69
2:M:975:TYR:HA	2:M:982:PRO:HA	1.75	0.69
3:N:19:ARG:O	3:N:22:SER:HB3	1.93	0.69
3:N:882:PHE:CE2	3:N:906:GLN:HG3	2.28	0.69
3:N:925:GLU:HG2	3:N:929:ARG:NH1	2.08	0.69
3:N:974:ILE:HD12	3:N:995:LEU:HD21	1.75	0.69
3:N:1102:THR:HG22	3:N:1222:GLY:HA2	1.72	0.69
3:N:1221:VAL:O	3:N:1224:VAL:HG12	1.93	0.69
3:N:1434:TRP:CD1	3:N:1435:LEU:N	2.61	0.69
5:X:137:VAL:HG22	5:X:150:ARG:HB2	1.73	0.69
5:Y:6:LYS:HB3	5:Y:75:LEU:CD1	2.23	0.69
1:B:25:LEU:HD23	1:B:28:LEU:HD11	1.74	0.69
2:C:442:GLU:HG2	2:C:454:SER:HB2	1.73	0.69
2:C:872:ASN:ND2	2:C:874:LEU:HB2	2.07	0.69
2:C:1066:ALA:HA	2:C:1077:PRO:HD2	1.75	0.69
3:I:705:ALA:CB	3:I:706:PRO:HD3	2.16	0.69
1:K:101:LEU:HD11	1:K:113:ASP:HB2	1.75	0.69
2:M:122:THR:HG22	2:M:123:GLU:N	2.07	0.69
2:M:313:LEU:HD21	2:M:322:VAL:HG22	1.74	0.69
2:M:344:PHE:CE2	2:M:378:LEU:HD11	2.28	0.69
3:N:41:ARG:HD3	3:N:42:ASP:N	2.08	0.69
1:B:218:LEU:HG	1:B:219:ARG:N	2.07	0.69
2:C:690:ILE:HG23	2:C:852:ILE:HG13	1.75	0.69
1:G:52:ALA:HB1	1:G:170:VAL:H	1.57	0.69
2:H:141:HIS:HB3	2:H:418:LEU:HD23	1.75	0.69
3:I:1197:ARG:HA	3:I:1396:GLU:HG3	1.74	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:178:ALA:O	1:K:197:LEU:HD13	1.93	0.69
2:M:111:ASP:O	2:M:113:VAL:HG22	1.93	0.69
2:M:627:ARG:O	2:M:638:ASP:HA	1.93	0.69
3:N:638:LYS:H	3:N:641:GLN:NE2	1.91	0.69
3:N:1462:LEU:O	3:N:1466:VAL:HG23	1.93	0.69
5:X:36:ALA:HA	5:X:39:GLU:CD	2.14	0.69
2:C:4:LYS:HE2	2:C:917:LEU:HD11	1.74	0.68
2:C:595:LEU:HD21	2:C:656:ALA:HB3	1.74	0.68
3:D:758:GLU:HB3	4:E:20:THR:HG21	1.75	0.68
3:D:844:ALA:HB1	3:D:867:ARG:HH12	1.58	0.68
1:G:50:GLY:HA3	1:G:173:PRO:HD3	1.75	0.68
2:H:239:PHE:CE2	2:H:252:LYS:HA	2.27	0.68
3:I:800:LYS:CE	3:I:830:ALA:HB3	2.22	0.68
1:L:51:THR:HG22	1:L:89:PHE:CE2	2.28	0.68
1:A:35:THR:O	1:A:39:PRO:HG2	1.93	0.68
3:D:704:ARG:NE	3:D:705:ALA:H	1.91	0.68
3:D:1172:HIS:HA	3:D:1175:ILE:HD12	1.76	0.68
1:G:48:ILE:HD12	1:G:48:ILE:N	2.08	0.68
2:H:15:LEU:HD21	2:H:583:LEU:HD12	1.73	0.68
2:H:142:ARG:NH2	2:H:325:ILE:HA	2.06	0.68
2:H:686:ASP:O	2:H:688:ILE:HD12	1.93	0.68
3:I:843:PHE:HE1	3:I:864:VAL:HG11	1.56	0.68
3:N:162:ARG:HH12	3:N:450:TYR:HB3	1.58	0.68
3:N:796:ARG:HB2	3:N:828:LYS:NZ	2.07	0.68
1:B:81:ASN:HA	1:B:84:GLU:OE1	1.93	0.68
1:G:151:VAL:H	1:G:169:ALA:HB3	1.57	0.68
2:H:257:VAL:HG12	2:H:263:ASP:CG	2.13	0.68
2:H:744:ARG:CG	2:H:747:ALA:HB2	2.22	0.68
3:I:1041:LEU:HD12	3:I:1041:LEU:O	1.93	0.68
1:L:45:LEU:HD21	1:L:177:VAL:HG13	1.75	0.68
2:M:290:LEU:HD23	2:M:290:LEU:H	1.58	0.68
3:N:654:LYS:HB3	3:N:655:PRO:HD3	1.75	0.68
2:C:455:LEU:HD13	2:C:467:ILE:HD13	1.74	0.68
3:D:95:LEU:HD13	3:D:96:ALA:N	2.07	0.68
3:D:406:ASP:O	3:D:422:ALA:HB1	1.93	0.68
4:E:18:ARG:O	4:E:22:VAL:HG23	1.93	0.68
2:H:30:LEU:HD23	2:H:340:MET:HE1	1.74	0.68
2:H:260:LEU:HB3	2:H:291:ALA:HB1	1.75	0.68
3:I:356:PRO:HG2	3:I:359:ALA:HB2	1.76	0.68
2:M:134:ARG:HB3	2:M:134:ARG:NH1	2.09	0.68
2:M:841:ASN:HD21	2:M:843:HIS:HB2	1.58	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:879:ARG:HH12	3:N:905:PRO:HA	1.58	0.68
3:N:971:LEU:HG	3:N:972:LEU:HD22	1.74	0.68
3:N:1490:LYS:HZ2	3:N:1490:LYS:HB2	1.56	0.68
4:O:59:ASN:ND2	4:O:61:VAL:HG23	2.05	0.68
2:C:258:TYR:HE2	2:C:290:LEU:CG	2.06	0.68
2:C:673:LEU:HD23	2:C:673:LEU:C	2.13	0.68
2:C:689:VAL:HG12	2:C:690:ILE:N	2.07	0.68
2:C:1030:GLN:HA	3:D:622:ARG:NH1	2.09	0.68
3:D:550:ARG:HG2	3:D:553:ARG:HH21	1.58	0.68
2:H:376:ARG:HB3	2:H:377:PRO:HD3	1.76	0.68
3:I:111:LYS:HZ1	3:I:1449:GLU:HG3	1.59	0.68
1:K:151:VAL:H	1:K:169:ALA:HB3	1.58	0.68
1:K:218:LEU:HD23	1:L:222:LEU:HD13	1.74	0.68
1:L:138:LEU:O	1:L:138:LEU:HD13	1.93	0.68
2:M:495:THR:HG22	2:M:517:ARG:HE	1.58	0.68
2:M:569:VAL:HG11	2:M:996:LYS:HB3	1.74	0.68
3:N:1310:ARG:HB3	3:N:1327:ARG:NH2	2.04	0.68
4:O:8:LYS:O	4:O:12:MET:HG3	1.93	0.68
2:C:511:GLU:O	2:C:526:PRO:HD3	1.94	0.68
2:C:535:SER:O	2:C:538:GLN:HG2	1.93	0.68
3:D:401:TYR:HB3	3:D:427:VAL:CG1	2.23	0.68
3:D:843:PHE:HE1	3:D:864:VAL:HG11	1.58	0.68
3:D:1245:GLY:O	3:D:1246:VAL:HG22	1.93	0.68
2:H:34:VAL:HG12	2:H:35:PRO:HD2	1.76	0.68
3:I:673:ALA:O	3:I:676:MET:HB2	1.93	0.68
3:I:1054:GLU:O	3:I:1056:PRO:HD3	1.93	0.68
1:K:74:ASP:OD1	1:K:76:VAL:HG23	1.93	0.68
2:M:495:THR:CG2	2:M:517:ARG:HH21	2.07	0.68
3:N:793:THR:HG21	3:N:906:GLN:CG	2.23	0.68
3:N:1369:GLU:O	3:N:1372:VAL:HG13	1.93	0.68
5:X:83:ILE:HD13	5:X:89:VAL:HG21	1.75	0.68
5:X:105:VAL:HG21	5:X:109:GLU:HG2	1.75	0.68
5:Y:50:GLU:HG2	5:Y:53:ARG:NH1	2.09	0.68
1:A:132:LEU:HD21	1:A:138:LEU:HB3	1.75	0.68
2:C:666:LEU:HD12	2:C:667:ALA:H	1.59	0.68
2:H:328:LEU:HB2	2:H:433:THR:CG2	2.23	0.68
2:H:575:GLN:HE21	2:H:671:ASN:H	1.41	0.68
3:I:1207:TYR:CE2	3:I:1213:ARG:HA	2.28	0.68
1:L:41:ARG:HD2	1:L:177:VAL:HG23	1.75	0.68
2:M:68:PHE:O	2:M:69:LEU:HD23	1.93	0.68
3:N:165:LYS:HD2	3:N:166:GLN:N	2.08	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:704:ARG:HD3	3:N:738:ALA:HB2	1.74	0.68
3:N:1148:VAL:HG13	3:N:1148:VAL:O	1.94	0.68
3:N:1495:ILE:HG21	4:O:80:VAL:HG13	1.76	0.68
5:X:42:LEU:O	5:X:43:ARG:HG2	1.93	0.68
1:A:65:PHE:CZ	2:C:830:LYS:HG3	2.29	0.68
2:C:48:PHE:O	2:C:52:PHE:HB2	1.94	0.68
2:C:191:PHE:HZ	2:C:196:LEU:HD12	1.58	0.68
2:C:196:LEU:HD13	2:C:303:PHE:HE2	1.59	0.68
3:D:166:GLN:NE2	3:D:396:VAL:HB	2.09	0.68
1:G:124:ASN:ND2	1:G:127:LEU:HD22	2.09	0.68
2:H:272:ALA:HA	2:H:464:LEU:CD2	2.24	0.68
3:I:203:ALA:HB2	3:I:395:VAL:HG23	1.75	0.68
2:M:368:THR:CB	2:M:369:PRO:HD3	2.14	0.68
2:M:1029:GLY:HA2	3:N:626:SER:OG	1.93	0.68
3:N:845:ASN:ND2	3:N:848:GLU:H	1.91	0.68
3:N:860:LEU:HB2	3:N:861:GLN:HE21	1.59	0.68
5:Y:41:ASP:CG	5:Y:48:TYR:CB	2.62	0.68
5:Y:41:ASP:C	5:Y:43:ARG:N	2.47	0.68
3:D:119:SER:CB	3:D:123:LEU:HD13	2.23	0.68
1:F:206:THR:OG1	1:F:207:PRO:HD2	1.94	0.68
2:H:181:VAL:HA	2:H:220:GLY:O	1.93	0.68
3:I:639:LEU:HD13	3:I:640:HIS:N	2.08	0.68
3:I:657:LEU:O	3:I:661:MET:HG2	1.94	0.68
3:N:539:ASP:OD1	3:N:600:LEU:HA	1.93	0.68
4:O:47:LYS:O	4:O:54:LEU:HD13	1.94	0.68
4:O:66:LYS:O	4:O:69:LEU:HB3	1.94	0.68
2:C:343:GLN:HG2	2:C:385:PHE:HB2	1.76	0.68
2:C:1104:GLU:HB2	2:C:1105:LYS:HE3	1.76	0.68
3:D:484:PRO:HB3	3:D:488:ARG:CZ	2.24	0.68
1:F:42:ARG:HD3	1:G:35:THR:HG23	1.74	0.68
1:G:185:ARG:HD2	1:G:186:LEU:H	1.57	0.68
2:H:119:PRO:C	2:H:120:LEU:HD22	2.15	0.68
2:H:622:GLU:HG3	2:H:623:TYR:N	2.09	0.68
3:I:179:VAL:HG21	3:I:189:GLN:HE22	1.59	0.68
3:I:771:SER:CB	3:I:778:LEU:HD21	2.15	0.68
2:M:1012:PRO:HB2	2:M:1021:LEU:O	1.93	0.68
3:N:119:SER:HB3	3:N:123:LEU:H	1.59	0.68
3:I:150:ARG:NH1	3:I:468:LEU:HD11	2.08	0.67
3:I:1361:VAL:HG12	3:I:1363:LEU:HD22	1.75	0.67
2:C:40:GLU:O	2:C:41:ASN:HB2	1.93	0.67
2:C:139:GLN:NE2	2:C:414:GLY:HA3	2.09	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:151:ASP:CG	2:C:152:PRO:HD2	2.14	0.67
2:C:1008:ARG:O	3:D:652:LEU:HG	1.95	0.67
2:C:1081:VAL:HG13	2:C:1085:PHE:CD1	2.29	0.67
3:D:486:ARG:HA	3:D:489:ARG:HG2	1.74	0.67
3:D:501:ALA:HB1	3:D:1452:ILE:HG22	1.75	0.67
3:D:563:PRO:HA	2:H:223:ASP:OD2	1.94	0.67
3:D:1120:VAL:CG2	3:D:1186:VAL:HB	2.23	0.67
3:D:1237:THR:HG22	3:D:1238:MET:N	2.09	0.67
3:I:550:ARG:HD3	3:I:573:MET:HB3	1.77	0.67
3:I:809:PRO:O	3:I:812:ALA:HB3	1.93	0.67
3:I:812:ALA:HA	3:I:816:HIS:ND1	2.09	0.67
1:L:212:ASN:O	1:L:215:VAL:HG22	1.93	0.67
2:M:1:MET:SD	2:M:900:ARG:HG3	2.34	0.67
2:M:630:ARG:HD3	2:M:705:ILE:HB	1.75	0.67
2:M:705:ILE:HG22	2:M:706:GLU:N	2.08	0.67
3:N:792:ILE:HG21	3:N:941:PHE:CD1	2.29	0.67
3:N:963:TYR:CE2	3:N:1002:LYS:HD3	2.30	0.67
1:A:57:TYR:HE1	1:A:163:ASN:HB2	1.59	0.67
1:B:100:LEU:HD22	1:B:100:LEU:H	1.56	0.67
1:F:43:ILE:HG22	1:G:32:PHE:HE2	1.58	0.67
1:G:186:LEU:HB3	1:G:192:LEU:HD11	1.76	0.67
2:H:115:LEU:N	2:H:115:LEU:HD23	2.09	0.67
2:H:882:LEU:HD21	3:I:1038:LEU:HD22	1.75	0.67
3:I:179:VAL:HG21	3:I:191:LEU:HD23	1.75	0.67
3:I:797:LYS:HE3	3:I:1016:PRO:HG2	1.76	0.67
3:I:1364:HIS:CE1	3:I:1366:LYS:HG3	2.29	0.67
2:M:297:GLU:HG2	2:M:298:PHE:N	2.08	0.67
3:N:810:GLU:O	3:N:813:LEU:HG	1.94	0.67
4:O:47:LYS:HA	4:O:54:LEU:HB3	1.77	0.67
5:Z:115:THR:CB	5:Z:116:PRO:HD3	2.25	0.67
1:F:78:ILE:HD12	1:F:130:ALA:HB2	1.76	0.67
1:G:85:LEU:HD12	1:G:124:ASN:HB3	1.76	0.67
2:H:470:PRO:HG2	2:H:538:GLN:HE22	1.58	0.67
2:H:755:LEU:N	2:H:755:LEU:HD23	2.10	0.67
2:H:906:PHE:CD1	3:I:1067:VAL:HG22	2.29	0.67
2:H:1100:GLN:HB2	3:I:9:ARG:HB3	1.75	0.67
3:I:187:LYS:HG2	3:I:200:ASP:N	2.10	0.67
3:I:1020:LEU:HA	3:I:1023:MET:CE	2.25	0.67
3:N:637:LEU:HD21	3:N:642:CYS:HA	1.75	0.67
5:X:5:VAL:HG21	5:X:68:ILE:HG23	1.77	0.67
1:A:45:LEU:HG	1:A:174:VAL:CG1	2.24	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:138:LEU:O	1:B:138:LEU:HD13	1.94	0.67
1:B:201:THR:HG22	1:B:203:GLY:H	1.59	0.67
2:C:94:LEU:HD12	2:C:115:LEU:O	1.94	0.67
2:C:333:ILE:HD11	2:C:410:ILE:HG21	1.75	0.67
3:D:1107:VAL:O	3:D:1218:GLY:HA2	1.95	0.67
3:D:1240:THR:HG22	3:D:1241:PHE:N	2.03	0.67
1:G:32:PHE:O	1:G:36:LEU:HG	1.94	0.67
3:I:15:PRO:HA	3:I:18:ILE:HD12	1.76	0.67
3:I:1031:ASN:HD21	5:Y:32:ASP:CB	2.08	0.67
3:I:1200:VAL:HG22	3:I:1373:ARG:HH12	1.60	0.67
3:I:1262:LEU:HD23	3:I:1352:ILE:HD13	1.75	0.67
4:J:37:ASN:N	4:J:37:ASN:HD22	1.92	0.67
2:M:1007:ALA:HB2	3:N:648:MET:SD	2.34	0.67
2:M:1076:VAL:CG2	3:N:752:SER:HA	2.23	0.67
3:N:25:GLU:HB2	3:N:92:HIS:CE1	2.29	0.67
2:C:463:GLU:C	2:C:464:LEU:HD23	2.15	0.67
2:C:676:ILE:HD12	2:C:871:LEU:O	1.94	0.67
3:D:496:LEU:HD12	3:D:499:VAL:HB	1.77	0.67
2:H:3:ILE:HB	2:H:902:ILE:HD11	1.76	0.67
2:H:612:VAL:HG22	2:H:622:GLU:CD	2.15	0.67
2:H:674:VAL:HG23	2:H:869:VAL:HG13	1.77	0.67
3:I:6:ARG:C	3:I:1459:LEU:HD13	2.15	0.67
2:M:66:LEU:HD11	2:M:98:LEU:HB2	1.77	0.67
2:M:689:VAL:HB	2:M:870:ILE:HB	1.76	0.67
3:N:179:VAL:HG13	3:N:183:GLU:CD	2.15	0.67
3:N:695:ILE:HG23	3:N:696:HIS:H	1.59	0.67
3:N:987:GLU:O	3:N:991:GLN:HB2	1.94	0.67
3:D:133:ILE:HG23	3:D:455:ARG:O	1.94	0.67
3:D:1041:LEU:HB2	3:D:1059:SER:O	1.94	0.67
3:D:1189:ARG:HB3	3:D:1204:CYS:HA	1.76	0.67
3:D:1345:GLU:CA	3:D:1348:LEU:HD22	2.25	0.67
1:F:75:VAL:O	1:F:79:ILE:HG23	1.95	0.67
2:H:65:VAL:O	2:H:100:LEU:HD22	1.95	0.67
2:H:876:VAL:N	2:H:877:PRO:HD2	2.08	0.67
2:H:1107:ASN:HD22	3:I:2:LYS:NZ	1.92	0.67
3:I:700:VAL:HG12	3:I:749:VAL:HG13	1.75	0.67
3:I:963:TYR:CE2	3:I:1002:LYS:HB3	2.30	0.67
3:I:1277:ILE:HD11	3:I:1301:LYS:NZ	2.10	0.67
2:M:328:LEU:HB2	2:M:433:THR:CG2	2.25	0.67
4:O:54:LEU:HG	4:O:58:PRO:CG	2.23	0.67
2:C:140:ILE:O	2:C:141:HIS:HB3	1.95	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:310:LEU:O	2:C:313:LEU:HD23	1.94	0.67
2:C:336:VAL:HA	2:C:339:LEU:HD12	1.75	0.67
3:D:108:VAL:HB	3:D:109:PRO:CD	2.22	0.67
3:D:142:LEU:H	3:D:142:LEU:HD12	1.59	0.67
3:D:809:PRO:HB2	3:D:812:ALA:CB	2.18	0.67
3:D:1498:ALA:HB3	4:E:84:ARG:NH2	2.09	0.67
1:F:73:GLU:HB2	1:F:78:ILE:HD11	1.75	0.67
1:F:94:LEU:HD21	1:F:119:ASP:HB3	1.76	0.67
1:F:162:ILE:HD12	1:F:163:ASN:N	2.10	0.67
2:H:115:LEU:HA	2:H:375:SER:HB2	1.76	0.67
2:H:571:LEU:HD11	2:H:701:THR:N	2.10	0.67
3:I:126:VAL:O	3:I:130:SER:HB3	1.95	0.67
3:I:1036:ARG:NH2	3:I:1043:GLY:H	1.92	0.67
1:L:156:HIS:ND1	1:L:158:ILE:HG12	2.09	0.67
1:L:159:LYS:HE2	1:L:159:LYS:N	2.10	0.67
2:M:224:GLU:OE1	2:M:227:PHE:HB2	1.95	0.67
4:O:41:GLU:HG3	4:O:42:PRO:HD3	1.77	0.67
5:X:120:SER:HB2	5:X:123:SER:HB2	1.77	0.67
1:A:44:LEU:HD21	1:A:199:ILE:HG21	1.76	0.67
1:B:123:MET:C	1:B:125:PRO:HD3	2.15	0.67
2:C:1072:LYS:O	3:D:659:LYS:NZ	2.28	0.67
3:D:29:PRO:HG3	3:D:549:ASN:ND2	2.09	0.67
3:D:345:TYR:CD2	3:D:377:VAL:HG22	2.29	0.67
3:D:1200:VAL:HG12	3:D:1201:CYS:N	2.10	0.67
3:I:1345:GLU:HA	3:I:1348:LEU:HD22	1.77	0.67
1:K:220:GLU:O	1:K:223:THR:HG22	1.94	0.67
3:N:675:ARG:HA	3:N:678:GLU:HB3	1.77	0.67
2:C:196:LEU:HD13	2:C:303:PHE:CE2	2.30	0.67
3:D:720:LEU:HD13	3:D:720:LEU:N	2.10	0.67
2:H:80:GLN:HG2	2:H:90:TYR:CE2	2.30	0.67
3:I:844:ALA:O	3:I:867:ARG:HG2	1.94	0.67
3:I:1305:LEU:HD22	3:I:1311:LEU:HD11	1.76	0.67
2:M:13:ILE:HG13	2:M:13:ILE:O	1.95	0.67
2:M:943:VAL:HG23	2:M:985:GLY:H	1.58	0.67
2:M:1037:VAL:HG13	2:M:1049:LEU:HD11	1.77	0.67
3:N:138:LYS:HD3	3:N:138:LYS:N	2.08	0.67
3:N:637:LEU:HD12	3:N:641:GLN:HE21	1.60	0.67
3:N:843:PHE:HE1	3:N:864:VAL:HG11	1.60	0.67
3:N:899:LEU:HD12	3:N:900:ILE:HG23	1.77	0.67
3:N:1265:ALA:HB2	3:N:1421:LEU:HD11	1.76	0.67
1:B:83:LYS:HD3	1:B:167:VAL:HG12	1.76	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:847:ASP:HA	3:D:850:LEU:HD13	1.78	0.66
3:D:1330:ILE:HG22	3:D:1331:ASP:N	2.09	0.66
1:G:71:VAL:HG13	1:G:73:GLU:OE1	1.95	0.66
2:H:471:TYR:CE2	2:H:496:ILE:HG21	2.30	0.66
1:L:138:LEU:HD22	1:L:138:LEU:C	2.14	0.66
2:M:511:GLU:O	2:M:526:PRO:HD3	1.94	0.66
2:M:672:VAL:HG22	2:M:994:ILE:HD11	1.76	0.66
2:M:722:ILE:O	2:M:722:ILE:HD13	1.95	0.66
2:M:863:ASP:O	2:M:865:THR:HG22	1.95	0.66
3:N:834:THR:HG23	3:N:839:LEU:HD21	1.76	0.66
5:Z:111:ASN:H	5:Z:118:LYS:HB2	1.59	0.66
2:C:544:THR:O	2:C:547:ILE:HG12	1.96	0.66
2:C:569:VAL:O	2:C:571:LEU:HD12	1.94	0.66
3:D:615:ARG:HB2	3:D:615:ARG:HH11	1.60	0.66
3:D:879:ARG:HH21	3:D:903:ASP:C	1.98	0.66
1:F:128:HIS:HE1	1:F:131:THR:HG23	1.59	0.66
1:G:30:ARG:HB3	1:G:30:ARG:HH11	1.60	0.66
2:H:471:TYR:O	2:H:483:VAL:HG13	1.95	0.66
2:H:1046:ALA:HB1	3:I:1471:LEU:HD11	1.76	0.66
2:H:1066:ALA:HA	2:H:1077:PRO:CD	2.26	0.66
2:H:1092:LEU:HD12	2:H:1099:VAL:HG21	1.75	0.66
3:I:184:GLU:OE1	3:I:202:VAL:HG13	1.94	0.66
3:I:403:PHE:HB2	3:I:423:ASP:OD1	1.94	0.66
1:K:102:LYS:HD3	1:K:139:ASN:OD1	1.95	0.66
1:K:106:PRO:HG3	1:K:133:GLU:O	1.94	0.66
1:K:189:ARG:HH11	1:K:189:ARG:HG3	1.61	0.66
2:M:230:ARG:HB3	2:M:233:GLU:HB3	1.77	0.66
3:N:412:GLY:HA2	3:N:434:ARG:NE	2.09	0.66
3:N:646:LYS:CD	3:N:647:ARG:HH12	2.08	0.66
3:N:922:LEU:HD12	3:N:926:LYS:HB2	1.78	0.66
1:B:117:VAL:HG12	1:B:118:ALA:N	2.10	0.66
2:C:174:LEU:HD22	2:C:193:LEU:HD21	1.77	0.66
3:D:625:TYR:O	3:D:652:LEU:HD21	1.95	0.66
2:H:262:ALA:HA	2:H:266:ARG:HD2	1.77	0.66
2:H:409:ARG:O	2:H:410:ILE:HD13	1.95	0.66
3:I:396:VAL:HG21	3:I:447:VAL:HG22	1.77	0.66
3:I:644:LEU:HD12	3:I:645:PRO:CD	2.24	0.66
3:I:1036:ARG:HH21	3:I:1043:GLY:N	1.92	0.66
2:M:710:ILE:HD11	2:M:758:ARG:CZ	2.24	0.66
3:D:628:ARG:HH11	3:D:628:ARG:HG3	1.60	0.66
1:F:12:THR:HA	1:G:229:GLN:HB2	1.77	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:73:GLU:HB2	1:F:78:ILE:CD1	2.26	0.66
1:F:74:ASP:O	1:F:78:ILE:HG12	1.95	0.66
1:F:79:ILE:HG13	1:F:80:LEU:N	2.11	0.66
3:I:365:ASP:H	3:I:379:ALA:HB3	1.61	0.66
1:K:38:ASN:O	1:K:42:ARG:HG3	1.94	0.66
2:M:64:LEU:HD12	2:M:100:LEU:HD21	1.78	0.66
3:N:471:GLU:O	3:N:475:LYS:HG3	1.96	0.66
3:N:1374:GLN:NE2	3:N:1377:LYS:HD2	2.11	0.66
3:N:1484:THR:HG21	4:O:22:VAL:HG22	1.78	0.66
1:A:42:ARG:NH1	1:B:34:VAL:HB	2.09	0.66
1:A:142:VAL:HG23	1:A:142:VAL:O	1.95	0.66
1:B:19:GLU:HG3	1:B:201:THR:O	1.96	0.66
1:B:138:LEU:HD22	1:B:139:ASN:N	2.11	0.66
2:C:679:PHE:HD2	2:C:680:ASP:H	1.43	0.66
2:C:710:ILE:CD1	2:C:758:ARG:HH11	2.08	0.66
2:C:808:ARG:HH21	2:C:820:ARG:NE	1.93	0.66
3:D:551:ASN:O	3:D:555:LYS:HG3	1.96	0.66
3:D:1197:ARG:HA	3:D:1396:GLU:HG3	1.76	0.66
3:D:1258:ARG:NE	3:D:1262:LEU:HD11	2.10	0.66
2:H:724:ARG:NH2	2:H:734:LEU:HD13	2.10	0.66
3:I:452:ILE:HG12	3:I:453:ASP:N	2.08	0.66
3:I:459:GLU:O	3:I:462:GLN:HB3	1.95	0.66
3:I:603:LEU:O	3:I:606:ILE:HG22	1.95	0.66
3:I:806:PHE:H	3:I:832:ARG:HG3	1.59	0.66
3:I:1286:THR:O	3:I:1287:GLU:HB2	1.95	0.66
2:M:115:LEU:HD23	2:M:115:LEU:N	2.11	0.66
2:M:239:PHE:CE2	2:M:252:LYS:HA	2.30	0.66
3:N:209:ARG:HG3	3:N:209:ARG:NH1	2.08	0.66
3:N:776:GLU:OE1	3:N:912:LYS:HD3	1.94	0.66
3:N:792:ILE:HD12	3:N:793:THR:N	2.09	0.66
1:A:72:LYS:HE3	2:C:644:VAL:HG12	1.77	0.66
2:C:87:ASP:HA	2:C:131:GLY:HA3	1.76	0.66
2:C:605:LYS:HD3	2:C:610:ARG:NH1	2.10	0.66
2:C:1065:ALA:C	2:C:1077:PRO:HG2	2.15	0.66
3:D:405:ASP:HB2	3:D:423:ASP:HA	1.78	0.66
3:D:873:LEU:HD23	3:D:874:GLU:N	2.11	0.66
3:D:1381:VAL:HG23	3:D:1391:GLU:O	1.95	0.66
1:G:153:ALA:HB2	1:G:168:ASP:N	2.11	0.66
2:H:91:GLN:HB3	2:H:117:HIS:HB2	1.76	0.66
3:I:544:TYR:O	3:I:547:LEU:HB3	1.94	0.66
3:N:847:ASP:O	3:N:851:LEU:HG	1.96	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:X:115:THR:CB	5:X:116:PRO:HD3	2.25	0.66
5:Y:41:ASP:OD1	5:Y:48:TYR:HB3	1.94	0.66
5:Y:139:SER:HB3	5:Y:148:GLU:OE1	1.96	0.66
2:C:236:ILE:HD12	2:C:236:ILE:H	1.59	0.66
2:C:569:VAL:HG12	2:C:996:LYS:O	1.95	0.66
3:D:707:THR:HG21	3:D:713:ILE:HD11	1.77	0.66
3:D:1242:HIS:O	3:D:1243:THR:HG22	1.96	0.66
2:H:577:PRO:HA	2:H:671:ASN:HD21	1.61	0.66
2:H:994:ILE:HD12	2:H:994:ILE:N	2.11	0.66
3:I:39:PRO:HG2	3:I:45:PHE:O	1.96	0.66
3:I:136:ASP:CB	3:I:137:PRO:HD3	2.23	0.66
1:K:78:ILE:HG23	1:K:129:ILE:HG22	1.78	0.66
1:L:227:ASN:HD22	1:L:227:ASN:N	1.93	0.66
2:M:592:LEU:HD13	2:M:592:LEU:O	1.95	0.66
3:N:520:LEU:HG	3:N:521:PRO:HD2	1.78	0.66
2:C:94:LEU:HB3	2:C:116:GLY:O	1.96	0.66
2:C:274:ARG:O	2:C:277:ALA:HB3	1.96	0.66
2:C:706:GLU:HB3	2:C:827:VAL:CG1	2.26	0.66
2:C:722:ILE:HD11	2:C:741:GLY:HA3	1.77	0.66
2:C:878:SER:HB3	3:D:1029:ARG:NH1	2.11	0.66
2:C:939:ARG:HG3	2:C:975:TYR:CE2	2.31	0.66
3:D:817:GLU:O	3:D:820:GLU:HB3	1.96	0.66
3:D:907:GLU:HG2	3:D:1027:GLY:N	2.10	0.66
2:H:289:THR:O	2:H:291:ALA:N	2.29	0.66
2:H:1050:GLN:HE22	3:I:1471:LEU:N	1.93	0.66
3:I:674:ARG:HB3	3:I:675:ARG:NH2	2.11	0.66
3:I:889:ALA:HB3	3:I:930:LEU:HD12	1.77	0.66
3:I:1084:THR:CB	5:Y:43:ARG:HD3	2.26	0.66
4:J:25:LYS:HA	4:J:28:GLN:NE2	2.07	0.66
2:M:18:LEU:HD12	2:M:18:LEU:N	2.10	0.66
2:M:1042:ALA:HA	3:N:1220:ALA:HB3	1.78	0.66
3:N:1171:VAL:O	3:N:1175:ILE:HD13	1.96	0.66
4:O:5:GLY:HA3	4:O:8:LYS:HD2	1.77	0.66
2:C:83:CYS:HA	2:C:88:LEU:HB3	1.78	0.66
2:C:148:PHE:HE2	2:C:310:LEU:HD13	1.61	0.66
3:D:54:LYS:HG3	3:D:55:ASP:H	1.61	0.66
1:G:58:ILE:HB	1:G:61:VAL:CG2	2.26	0.66
2:H:93:PRO:HA	2:H:117:HIS:ND1	2.11	0.66
2:H:397:GLU:H	2:H:633:GLN:NE2	1.94	0.66
2:H:471:TYR:H	2:H:483:VAL:HG13	1.61	0.66
3:I:636:GLN:HE21	3:I:637:LEU:N	1.94	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:700:VAL:HG13	3:I:718:PRO:HG2	1.78	0.66
3:N:1485:GLN:HG3	4:O:79:LEU:HB2	1.77	0.66
2:C:736:ASP:O	2:C:744:ARG:HG2	1.96	0.66
3:D:1103:HIS:CD2	3:D:1463:LYS:HD2	2.31	0.66
1:F:56:VAL:HG22	1:F:142:VAL:HG12	1.76	0.66
2:H:140:ILE:CG2	2:H:333:ILE:HG12	2.26	0.66
2:H:424:GLY:O	2:H:428:ARG:HG3	1.96	0.66
2:H:632:ASN:HB2	2:H:633:GLN:NE2	2.10	0.66
3:I:401:TYR:HB3	3:I:427:VAL:HG11	1.77	0.66
3:I:433:GLY:HA2	3:I:449:SER:O	1.96	0.66
3:I:875:THR:CG2	3:I:879:ARG:HD3	2.25	0.66
1:K:43:ILE:HD11	1:L:35:THR:HG21	1.76	0.66
1:L:159:LYS:HE2	1:L:159:LYS:H	1.61	0.66
2:M:50:GLU:HG3	2:M:266:ARG:HD2	1.77	0.66
2:M:310:LEU:HD23	2:M:311:PHE:CE2	2.31	0.66
2:M:442:GLU:HG2	2:M:454:SER:HB2	1.78	0.66
3:N:781:PRO:HB3	3:N:785:ILE:HG21	1.78	0.66
5:X:89:VAL:HG13	5:X:151:VAL:HG13	1.78	0.66
5:Y:50:GLU:HG2	5:Y:53:ARG:HH12	1.60	0.66
3:D:112:ILE:O	3:D:115:LEU:HB3	1.96	0.65
3:D:119:SER:HB2	3:D:123:LEU:HB2	1.77	0.65
3:D:168:THR:CA	3:D:394:LEU:HB3	2.20	0.65
3:D:409:VAL:CG1	3:D:435:VAL:HG11	2.26	0.65
3:D:1102:THR:O	3:D:1222:GLY:HA3	1.95	0.65
3:D:1274:ILE:HG22	3:D:1323:GLN:C	2.16	0.65
1:F:99:LEU:HD22	1:F:99:LEU:N	2.11	0.65
1:F:123:MET:C	1:F:125:PRO:HD3	2.16	0.65
1:G:80:LEU:HD21	3:I:867:ARG:NH1	2.11	0.65
2:H:599:GLU:HG3	2:H:600:ASP:N	2.10	0.65
2:H:1016:ILE:HD13	2:H:1016:ILE:N	2.07	0.65
2:H:1031:ARG:HA	3:I:622:ARG:HA	1.78	0.65
2:H:1042:ALA:HB2	3:I:1223:ILE:HG21	1.78	0.65
2:H:1094:ALA:HB3	2:H:1095:LEU:HD13	1.78	0.65
2:M:835:VAL:HG13	2:M:836:GLY:H	1.60	0.65
3:N:141:ILE:HG12	3:N:142:LEU:N	2.11	0.65
3:N:188:GLY:HA2	3:N:197:SER:O	1.96	0.65
4:O:59:ASN:HD21	4:O:61:VAL:CG2	2.07	0.65
1:B:85:LEU:CD1	1:B:124:ASN:HB3	2.22	0.65
1:B:90:LEU:HB3	1:B:119:ASP:HB3	1.79	0.65
2:C:29:ALA:O	2:C:44:ILE:HD13	1.95	0.65
2:C:841:ASN:HD22	2:C:992:MET:CE	2.09	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:860:HIS:HA	2:C:866:PRO:HA	1.79	0.65
2:C:884:GLN:HG3	2:C:885:ILE:H	1.62	0.65
3:D:516:ALA:O	3:D:518:PRO:HD3	1.97	0.65
3:D:540:LEU:H	3:D:540:LEU:HD13	1.60	0.65
3:D:800:LYS:HD3	3:D:802:ALA:C	2.16	0.65
3:D:1105:ILE:N	3:D:1105:ILE:HD12	2.11	0.65
3:D:1117:TYR:C	3:D:1118:ILE:HD12	2.16	0.65
2:H:338:GLU:O	2:H:341:THR:HG22	1.96	0.65
2:H:853:LEU:HD23	2:H:858:MET:HE3	1.78	0.65
3:I:1102:THR:O	3:I:1222:GLY:HA3	1.95	0.65
3:I:1165:TYR:OH	3:I:1202:GLN:HG2	1.96	0.65
1:L:52:ALA:HB1	1:L:170:VAL:H	1.61	0.65
2:M:66:LEU:HD23	2:M:100:LEU:HD23	1.78	0.65
2:M:113:VAL:HG11	2:M:373:VAL:HG21	1.78	0.65
2:M:662:GLU:HG2	2:M:663:ASN:ND2	2.11	0.65
2:M:684:PHE:CG	2:M:685:GLU:N	2.63	0.65
5:X:16:MET:HE2	5:X:69:LEU:HD22	1.78	0.65
5:Z:6:LYS:HB3	5:Z:75:LEU:HD11	1.77	0.65
1:A:156:HIS:ND1	1:A:158:ILE:HD13	2.10	0.65
2:C:221:LEU:HD12	2:C:222:MET:N	2.11	0.65
3:D:53:ILE:HG13	3:D:53:ILE:O	1.96	0.65
3:D:795:VAL:HG11	3:D:863:VAL:HG13	1.77	0.65
3:I:729:HIS:CE1	3:I:731:LEU:HB2	2.32	0.65
2:M:874:LEU:HD13	3:N:783:ARG:CB	2.26	0.65
3:N:366:LYS:HE2	3:N:369:ALA:CB	2.23	0.65
3:N:400:VAL:HG23	3:N:443:VAL:HG21	1.78	0.65
1:A:58:ILE:HB	1:A:61:VAL:HB	1.78	0.65
2:C:546:LEU:HB2	2:C:565:GLN:HE22	1.60	0.65
2:C:626:ARG:HB3	2:C:629:TYR:CD1	2.32	0.65
2:C:880:MET:N	2:C:880:MET:SD	2.68	0.65
3:D:150:ARG:HH12	3:D:468:LEU:CD1	2.10	0.65
3:D:786:ILE:HG21	3:D:1028:ALA:N	2.11	0.65
2:H:19:THR:O	2:H:23:VAL:HG23	1.97	0.65
2:H:276:LYS:H	2:H:276:LYS:HD2	1.62	0.65
2:H:861:LEU:HD23	2:H:862:PRO:N	2.11	0.65
3:I:89:ARG:HH11	3:I:89:ARG:HG3	1.62	0.65
3:I:1406:ARG:HB2	3:I:1412:LYS:HE3	1.79	0.65
2:M:572:ILE:HG23	2:M:701:THR:O	1.96	0.65
2:M:840:ALA:O	2:M:994:ILE:HG22	1.95	0.65
2:M:861:LEU:HD23	2:M:862:PRO:CD	2.25	0.65
3:N:15:PRO:HA	3:N:18:ILE:HD12	1.77	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:96:ALA:HB3	3:N:554:LEU:HD23	1.77	0.65
4:O:47:LYS:N	4:O:54:LEU:HD22	2.12	0.65
2:C:352:ALA:HA	2:C:355:VAL:CG1	2.27	0.65
3:D:171:LEU:HD11	3:D:393:ILE:HD12	1.78	0.65
3:D:554:LEU:HD11	3:D:571:LYS:NZ	2.11	0.65
3:I:800:LYS:HE2	3:I:830:ALA:HB3	1.77	0.65
2:M:198:ARG:HG3	2:M:228:ALA:HA	1.78	0.65
3:N:489:ARG:HH22	3:N:1389:LEU:HD11	1.61	0.65
3:N:540:LEU:H	3:N:540:LEU:HD12	1.61	0.65
3:N:1490:LYS:HB2	3:N:1490:LYS:NZ	2.12	0.65
1:A:52:ALA:CB	1:A:170:VAL:HG22	2.27	0.65
1:A:211:LEU:O	1:A:215:VAL:HG23	1.96	0.65
2:C:95:TYR:HA	2:C:114:PHE:HB2	1.79	0.65
2:C:572:ILE:HG22	2:C:703:ILE:HD11	1.78	0.65
3:D:603:LEU:O	3:D:606:ILE:HG22	1.97	0.65
1:F:39:PRO:CG	1:G:39:PRO:HG3	2.24	0.65
2:H:261:ILE:CG1	2:H:262:ALA:H	2.09	0.65
2:H:675:ALA:HA	2:H:989:VAL:HG12	1.78	0.65
3:I:657:LEU:HD22	3:I:691:LEU:HD13	1.76	0.65
3:I:804:LEU:O	3:I:804:LEU:HD12	1.97	0.65
1:K:100:LEU:HD12	1:K:101:LEU:H	1.62	0.65
1:K:123:MET:C	1:K:125:PRO:HD3	2.16	0.65
2:M:1037:VAL:HG13	2:M:1049:LEU:CD1	2.26	0.65
3:N:128:TYR:CE2	3:N:458:ALA:HA	2.32	0.65
3:N:141:ILE:HG12	3:N:142:LEU:H	1.61	0.65
3:N:553:ARG:O	3:N:557:LEU:HG	1.97	0.65
5:Y:6:LYS:HD2	5:Y:6:LYS:N	2.11	0.65
2:C:49:ARG:HB2	2:C:49:ARG:HH11	1.59	0.65
2:C:148:PHE:CE2	2:C:310:LEU:HD13	2.32	0.65
2:C:258:TYR:CE2	2:C:290:LEU:HG	2.30	0.65
2:C:261:ILE:H	2:C:261:ILE:HD12	1.61	0.65
2:C:603:VAL:HG23	2:C:647:GLN:O	1.96	0.65
2:C:697:ARG:HD2	2:C:699:PHE:CE1	2.30	0.65
2:C:848:VAL:HG23	3:D:740:PHE:O	1.97	0.65
2:H:165:LEU:HB3	2:H:265:ARG:NH2	2.10	0.65
2:H:544:THR:O	2:H:547:ILE:HD13	1.97	0.65
2:H:673:LEU:HD13	2:H:674:VAL:N	2.12	0.65
2:H:897:LEU:HB3	2:H:899:GLN:HE21	1.61	0.65
3:I:925:GLU:HG3	3:I:926:LYS:H	1.62	0.65
3:I:1037:GLN:HG2	3:I:1042:ARG:HB3	1.79	0.65
3:I:1115:THR:HG22	3:I:1151:ARG:NH2	2.11	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:1462:LEU:HD23	3:I:1472:ILE:HB	1.78	0.65
2:M:408:ARG:HE	2:M:455:LEU:HD11	1.61	0.65
2:M:992:MET:CE	2:M:993:PHE:H	2.09	0.65
3:N:41:ARG:HD3	3:N:42:ASP:H	1.61	0.65
3:N:209:ARG:HG3	3:N:209:ARG:HH11	1.61	0.65
3:N:620:GLY:O	3:N:621:LYS:HG2	1.97	0.65
3:N:985:ASP:O	3:N:988:ARG:HG2	1.96	0.65
3:N:1046:GLN:HA	3:N:1052:THR:HA	1.78	0.65
5:X:26:LEU:HD13	5:X:58:ASN:CB	2.26	0.65
5:Z:45:ASN:HB3	5:Z:48:TYR:HB2	1.78	0.65
2:C:1030:GLN:OE1	3:D:628:ARG:HG2	1.97	0.65
3:D:838:ARG:HG3	3:D:863:VAL:HB	1.79	0.65
3:D:1481:VAL:CG1	4:E:18:ARG:HA	2.27	0.65
4:E:58:PRO:HG2	4:E:63:TRP:HE1	1.62	0.65
1:F:177:VAL:HG13	1:F:199:ILE:HD12	1.77	0.65
2:H:571:LEU:HD21	2:H:700:TYR:HA	1.79	0.65
4:J:68:LEU:HD13	4:J:68:LEU:N	2.12	0.65
1:L:99:LEU:CD2	1:L:115:LEU:HD12	2.26	0.65
1:L:101:LEU:HD23	1:L:101:LEU:O	1.97	0.65
2:M:266:ARG:O	2:M:266:ARG:HD3	1.97	0.65
2:M:723:THR:HG23	2:M:725:ASP:HB3	1.79	0.65
2:M:833:LEU:HA	2:M:837:ASP:OD2	1.96	0.65
3:N:1170:ASP:O	3:N:1173:LEU:HG	1.97	0.65
3:N:1349:VAL:HG12	3:N:1368:ILE:HG22	1.78	0.65
1:A:156:HIS:H	1:A:156:HIS:CD2	2.14	0.65
2:C:328:LEU:HD11	2:C:434:HIS:HD2	1.62	0.65
3:D:1108:ARG:O	3:D:1108:ARG:HG2	1.96	0.65
3:D:1379:VAL:CG2	3:D:1417:TRP:HB2	2.25	0.65
1:F:80:LEU:HD23	1:F:81:ASN:N	2.11	0.65
2:H:12:VAL:HG13	2:H:13:ILE:HG22	1.77	0.65
3:I:147:VAL:HG22	3:I:149:LYS:H	1.61	0.65
3:N:834:THR:HG1	3:N:838:ARG:HB2	1.61	0.65
4:O:47:LYS:C	4:O:54:LEU:HB3	2.18	0.65
2:C:292:ARG:HD2	2:C:299:LYS:CE	2.26	0.65
2:C:477:GLY:HA2	2:C:508:ILE:CD1	2.27	0.65
2:C:943:VAL:HG13	2:C:944:LEU:N	2.11	0.65
2:C:1015:LEU:H	2:C:1015:LEU:HD12	1.62	0.65
2:H:159:ILE:HD12	2:H:159:ILE:O	1.96	0.65
2:H:1036:GLU:OE1	2:H:1036:GLU:N	2.30	0.65
3:I:6:ARG:NH2	3:I:1460:ILE:HG22	2.03	0.65
3:I:400:VAL:HG23	3:I:443:VAL:HG21	1.79	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:696:HIS:CE1	4:J:54:LEU:HD11	2.32	0.65
1:L:185:ARG:HG3	3:N:720:LEU:HG	1.79	0.65
2:M:733:ALA:HB1	2:M:754:ILE:HD11	1.78	0.65
2:M:750:LYS:HG3	2:M:751:PRO:HD2	1.79	0.65
3:N:759:ALA:O	3:N:763:MET:HB3	1.97	0.65
3:N:792:ILE:O	3:N:878:GLY:HA3	1.95	0.65
3:N:977:ALA:HB1	3:N:982:PHE:CG	2.32	0.65
2:C:352:ALA:HA	2:C:355:VAL:HG12	1.79	0.64
3:D:807:ALA:HA	3:D:833:GLU:OE1	1.97	0.64
3:D:1237:THR:O	3:D:1238:MET:HB2	1.96	0.64
2:H:272:ALA:HA	2:H:464:LEU:HD22	1.79	0.64
2:H:498:GLN:HB2	2:H:514:VAL:HG23	1.79	0.64
3:I:470:LEU:HD12	3:I:503:LEU:HD23	1.79	0.64
3:I:1106:VAL:HG13	3:I:1219:GLU:O	1.98	0.64
1:L:34:VAL:HG22	1:L:181:VAL:CG2	2.26	0.64
2:M:351:LEU:HD21	2:M:374:ASN:O	1.97	0.64
2:M:503:LEU:HD23	2:M:504:GLU:N	2.12	0.64
4:O:54:LEU:HG	4:O:58:PRO:CB	2.26	0.64
5:Z:93:ASP:HB2	5:Z:149:PHE:CZ	2.32	0.64
1:A:78:ILE:HG23	1:A:130:ALA:HB2	1.77	0.64
1:B:151:VAL:N	1:B:169:ALA:HB3	2.10	0.64
2:C:3:ILE:HD12	2:C:3:ILE:O	1.97	0.64
2:C:12:VAL:HG13	2:C:13:ILE:N	2.09	0.64
2:C:325:ILE:H	2:C:325:ILE:CD1	2.04	0.64
3:D:1387:SER:HB3	3:D:1391:GLU:OE2	1.97	0.64
1:F:58:ILE:CD1	1:F:140:MET:HB3	2.27	0.64
2:H:524:VAL:CG1	2:H:528:GLU:HB2	2.26	0.64
2:H:752:GLY:H	2:H:792:VAL:HB	1.63	0.64
3:I:806:PHE:H	3:I:832:ARG:CG	2.10	0.64
3:I:1344:VAL:O	3:I:1348:LEU:HD13	1.96	0.64
2:M:115:LEU:HA	2:M:375:SER:OG	1.98	0.64
2:M:118:ILE:HG22	2:M:382:ILE:HD13	1.78	0.64
2:M:542:VAL:O	2:M:546:LEU:HG	1.96	0.64
2:M:850:ALA:HA	3:N:632:VAL:HG11	1.79	0.64
3:N:516:ALA:O	3:N:518:PRO:HD3	1.97	0.64
3:N:719:VAL:O	3:N:721:VAL:HG13	1.97	0.64
3:N:1152:GLU:HG3	3:N:1161:GLU:HA	1.79	0.64
3:N:1496:GLU:N	3:N:1499:ARG:HH21	1.95	0.64
5:X:44:GLU:O	5:X:45:ASN:C	2.35	0.64
1:B:40:LEU:HD22	1:B:44:LEU:HD11	1.77	0.64
2:C:595:LEU:HD22	2:C:595:LEU:H	1.62	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:483:HIS:CB	3:D:484:PRO:HD3	2.24	0.64
3:D:982:PHE:HD1	5:X:117:MET:CE	2.11	0.64
2:H:496:ILE:O	2:H:515:ALA:HB1	1.97	0.64
3:I:782:SER:C	3:I:786:ILE:HG12	2.18	0.64
3:I:984:THR:HG23	3:I:987:GLU:H	1.63	0.64
2:M:333:ILE:HG22	2:M:465:GLY:HA2	1.80	0.64
3:N:700:VAL:HG13	3:N:718:PRO:HG2	1.78	0.64
3:N:1058:ARG:HG2	3:N:1058:ARG:HH11	1.61	0.64
4:O:47:LYS:CA	4:O:54:LEU:HB3	2.28	0.64
2:C:658:GLY:H	2:C:661:SER:HB3	1.63	0.64
2:C:1076:VAL:HG21	3:D:752:SER:HA	1.79	0.64
3:D:53:ILE:HB	3:D:86:ARG:HH12	1.62	0.64
3:D:820:GLU:HG3	3:D:836:VAL:HG11	1.79	0.64
3:D:1192:LEU:CD2	3:D:1369:GLU:HB3	2.25	0.64
2:H:219:GLN:HA	2:H:222:MET:CG	2.27	0.64
2:H:689:VAL:HB	2:H:870:ILE:HB	1.78	0.64
3:I:869:MET:HB2	3:I:871:LYS:HE3	1.79	0.64
3:I:886:VAL:O	3:I:890:VAL:HG22	1.97	0.64
3:I:1476:THR:HG23	4:J:21:VAL:CG2	2.25	0.64
1:L:169:ALA:HB1	1:L:171:PHE:CE2	2.32	0.64
2:M:31:GLN:HG2	2:M:45:GLN:HE22	1.62	0.64
2:M:333:ILE:HG22	2:M:465:GLY:CA	2.27	0.64
2:M:468:ARG:HB3	2:M:485:TYR:HB3	1.80	0.64
2:M:743:VAL:HG11	2:M:755:LEU:HD22	1.79	0.64
3:N:603:LEU:O	3:N:606:ILE:HG22	1.98	0.64
2:C:334:ARG:HD2	2:C:418:LEU:HD21	1.80	0.64
2:C:516:ARG:CZ	3:D:1068:LEU:HB2	2.27	0.64
3:D:362:GLU:O	3:D:379:ALA:HB1	1.97	0.64
1:G:118:ALA:O	1:G:120:VAL:N	2.30	0.64
1:G:185:ARG:CG	3:I:720:LEU:HG	2.27	0.64
2:H:94:LEU:C	2:H:94:LEU:HD12	2.17	0.64
2:H:138:SER:HB2	2:H:410:ILE:HD12	1.78	0.64
2:H:674:VAL:CG2	2:H:871:LEU:HD23	2.27	0.64
3:I:1156:LEU:CD1	3:I:1176:LYS:HE3	2.28	0.64
3:I:1379:VAL:CG1	3:I:1419:PRO:HA	2.28	0.64
4:J:80:VAL:HG13	4:J:81:PRO:HD2	1.78	0.64
2:M:31:GLN:HB3	2:M:45:GLN:OE1	1.97	0.64
2:M:577:PRO:HG3	2:M:993:PHE:CE2	2.32	0.64
1:A:122:ILE:HG22	1:A:124:ASN:H	1.62	0.64
1:B:51:THR:HG21	1:B:87:VAL:CG2	2.28	0.64
1:B:173:PRO:O	1:B:201:THR:HA	1.96	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:193:LEU:O	2:C:197:LEU:HG	1.98	0.64
2:C:524:VAL:HG11	2:C:528:GLU:HB2	1.79	0.64
2:C:850:ALA:HA	3:D:632:VAL:CG1	2.28	0.64
2:C:1088:LEU:HD21	3:D:613:ARG:HB3	1.78	0.64
3:D:650:LEU:HD13	3:D:688:TRP:CZ3	2.32	0.64
3:D:886:VAL:O	3:D:890:VAL:HG22	1.97	0.64
3:D:1211:MET:SD	3:D:1213:ARG:HG2	2.38	0.64
3:D:1379:VAL:HG22	3:D:1398:TRP:NE1	2.13	0.64
2:H:393:GLN:HE22	2:H:409:ARG:HH21	1.45	0.64
2:H:683:ASN:HA	2:H:687:ALA:HB3	1.78	0.64
2:H:987:ILE:HG23	3:I:948:THR:CG2	2.26	0.64
3:I:214:GLU:HB2	3:I:384:VAL:CG1	2.27	0.64
2:M:252:LYS:HG2	2:M:255:ALA:HB3	1.80	0.64
3:N:881:LEU:O	3:N:885:ILE:HG12	1.98	0.64
2:C:331:ARG:HH12	2:C:427:VAL:CG1	2.10	0.64
2:C:1004:LYS:HG2	3:D:744:GLN:OE1	1.97	0.64
2:H:580:MET:HB3	2:H:584:GLU:CD	2.18	0.64
2:H:838:LYS:HA	2:H:848:VAL:HA	1.79	0.64
3:I:169:TYR:HE1	3:I:395:VAL:HG12	1.63	0.64
1:K:67:THR:HG22	2:M:627:ARG:NH2	2.13	0.64
1:L:104:GLU:OE1	1:L:137:ARG:HG2	1.98	0.64
2:M:754:ILE:HD12	2:M:754:ILE:N	2.12	0.64
3:N:214:GLU:HA	3:N:342:PRO:HA	1.79	0.64
3:N:406:ASP:O	3:N:422:ALA:HB1	1.97	0.64
3:N:1290:LEU:HD13	3:N:1307:LYS:HA	1.80	0.64
5:Z:99:ARG:HG2	5:Z:99:ARG:HH11	1.62	0.64
1:A:58:ILE:HG23	1:A:139:ASN:O	1.98	0.64
2:C:17:PRO:HB2	2:C:20:GLU:HB3	1.79	0.64
2:C:252:LYS:HG2	2:C:255:ALA:HB3	1.80	0.64
2:C:1008:ARG:HG2	2:C:1009:SER:N	2.13	0.64
3:D:159:ARG:HG3	2:H:209:ARG:NH1	2.12	0.64
3:D:1493:LYS:HA	3:D:1493:LYS:HE3	1.78	0.64
2:H:99:GLN:HB3	2:H:110:GLU:HB2	1.80	0.64
2:H:366:SER:O	2:H:367:LEU:HG	1.97	0.64
2:H:673:LEU:HD13	2:H:673:LEU:C	2.19	0.64
3:I:44:LEU:HD12	3:I:44:LEU:N	2.11	0.64
3:I:358:GLY:N	3:I:385:VAL:HB	2.09	0.64
3:I:1205:TYR:CD2	3:I:1215:VAL:HG21	2.33	0.64
3:I:1240:THR:HG23	5:Y:56:TRP:HH2	1.61	0.64
2:M:292:ARG:HD2	2:M:299:LYS:CE	2.28	0.64
2:M:549:PHE:HB3	2:M:552:HIS:HD2	1.61	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:109:PRO:O	3:N:111:LYS:HD2	1.98	0.64
3:N:865:THR:HG22	3:N:874:GLU:HG2	1.79	0.64
3:N:1003:VAL:O	3:N:1007:VAL:HG23	1.97	0.64
5:X:99:ARG:HE	5:X:152:VAL:HG21	1.62	0.64
1:A:76:VAL:HA	1:A:79:ILE:HG12	1.80	0.64
3:D:112:ILE:HD11	3:D:465:LEU:HD21	1.80	0.64
3:D:1345:GLU:HA	3:D:1348:LEU:CD2	2.28	0.64
3:D:1363:LEU:HD23	3:D:1363:LEU:N	2.11	0.64
2:H:263:ASP:CB	2:H:264:PRO:HD3	2.26	0.64
2:H:569:VAL:CG1	2:H:996:LYS:HB2	2.28	0.64
2:H:627:ARG:HG3	2:H:628:PHE:H	1.62	0.64
2:H:727:PRO:HD2	2:H:787:ASP:HB2	1.78	0.64
3:I:50:PHE:O	3:I:89:ARG:HD2	1.97	0.64
2:M:73:LEU:HB2	2:M:93:PRO:O	1.98	0.64
2:M:165:LEU:CG	2:M:166:PRO:HA	2.23	0.64
2:M:693:GLU:HA	2:M:696:LYS:HD2	1.79	0.64
2:M:754:ILE:HG13	2:M:791:ARG:NH1	2.12	0.64
3:N:701:LEU:O	3:N:747:VAL:HG23	1.98	0.64
3:N:1435:LEU:CD2	3:N:1468:LEU:HD21	2.21	0.64
5:Z:35:GLN:HB3	5:Z:39:GLU:OE2	1.98	0.64
5:Z:127:LYS:HD3	5:Z:128:ALA:N	2.12	0.64
1:A:50:GLY:O	1:A:146:ARG:HG3	1.98	0.64
1:B:79:ILE:HG13	1:B:80:LEU:N	2.11	0.64
2:C:129:ILE:H	2:C:129:ILE:CD1	2.10	0.64
3:D:401:TYR:HB2	3:D:444:VAL:O	1.98	0.64
3:D:984:THR:HG23	3:D:986:ARG:H	1.61	0.64
2:H:678:PRO:HG3	2:H:873:PRO:HD2	1.80	0.64
2:H:860:HIS:O	2:H:974:LEU:HD12	1.98	0.64
3:I:137:PRO:HG2	3:I:453:ASP:H	1.63	0.64
3:I:1046:GLN:HA	3:I:1052:THR:HA	1.80	0.64
1:K:36:LEU:C	1:K:39:PRO:HD2	2.19	0.64
1:L:28:LEU:HD22	1:L:32:PHE:HB3	1.80	0.64
3:N:12:LEU:HD23	3:N:507:ASN:HB2	1.80	0.64
3:N:1434:TRP:HE3	3:N:1455:LYS:HD2	1.64	0.64
5:X:5:VAL:HG21	5:X:68:ILE:HD12	1.79	0.64
5:Y:75:LEU:HD22	5:Y:77:GLU:OE2	1.97	0.64
1:B:56:VAL:O	1:B:165:ILE:HD13	1.97	0.63
2:C:987:ILE:HG23	3:D:948:THR:HG21	1.80	0.63
3:D:102:ILE:HG22	3:D:582:LEU:HD13	1.79	0.63
3:D:166:GLN:HE21	3:D:396:VAL:HB	1.62	0.63
2:H:157:ARG:CB	2:H:176:VAL:HG21	2.28	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:161:LEU:HD21	3:I:397:LYS:NZ	2.13	0.63
3:I:897:TRP:HA	3:I:900:ILE:HD12	1.79	0.63
3:I:1426:LYS:HD3	3:I:1429:LEU:HD22	1.80	0.63
2:M:98:LEU:HD13	2:M:98:LEU:N	2.12	0.63
2:M:461:VAL:HG13	2:M:465:GLY:O	1.97	0.63
3:N:484:PRO:HB3	3:N:488:ARG:NE	2.13	0.63
5:Y:95:LEU:HD12	5:Y:95:LEU:H	1.62	0.63
1:A:44:LEU:HD22	1:A:177:VAL:HG21	1.81	0.63
2:C:710:ILE:HD13	2:C:790:LEU:HD12	1.80	0.63
3:D:139:GLY:H	3:D:147:VAL:HG21	1.64	0.63
3:D:804:LEU:N	3:D:804:LEU:HD12	2.13	0.63
3:D:1097:LYS:HA	3:D:1100:ASP:OD2	1.99	0.63
3:D:1421:LEU:HD12	3:D:1421:LEU:O	1.97	0.63
1:G:83:LYS:HD3	1:G:167:VAL:HG12	1.80	0.63
2:H:31:GLN:HG3	2:H:40:GLU:HG3	1.79	0.63
2:H:939:ARG:NH1	2:H:982:PRO:HD2	2.12	0.63
3:I:18:ILE:HD12	3:I:516:ALA:HB3	1.80	0.63
3:I:719:VAL:O	3:I:721:VAL:HG22	1.99	0.63
3:I:793:THR:HG21	3:I:906:GLN:HG2	1.80	0.63
3:I:902:LEU:HD23	3:I:902:LEU:H	1.63	0.63
3:I:1209:LEU:CD1	3:I:1210:SER:H	2.11	0.63
3:I:1311:LEU:HD22	3:I:1326:THR:HA	1.78	0.63
1:L:75:VAL:O	1:L:79:ILE:HG22	1.98	0.63
3:N:974:ILE:HD11	5:Z:113:LEU:HD11	1.80	0.63
1:A:102:LYS:HB3	1:A:138:LEU:O	1.99	0.63
1:A:124:ASN:ND2	1:A:127:LEU:HD22	2.14	0.63
2:C:98:LEU:C	2:C:98:LEU:HD22	2.18	0.63
3:D:553:ARG:HD2	3:D:557:LEU:HD11	1.80	0.63
3:D:897:TRP:HA	3:D:900:ILE:HD12	1.81	0.63
2:H:40:GLU:O	2:H:41:ASN:HB2	1.97	0.63
2:H:806:LEU:HB2	2:H:822:VAL:CG2	2.27	0.63
2:M:161:SER:HB3	2:M:173:ASP:OD2	1.98	0.63
3:N:109:PRO:HB3	3:N:494:LYS:NZ	2.12	0.63
3:N:1058:ARG:HG2	3:N:1058:ARG:NH1	2.13	0.63
3:N:1232:PRO:O	3:N:1235:GLN:HG2	1.98	0.63
4:O:73:LEU:HD22	4:O:73:LEU:N	2.11	0.63
5:X:73:VAL:HG12	5:X:74:ILE:H	1.63	0.63
1:A:41:ARG:NH1	1:A:177:VAL:HB	2.13	0.63
2:C:430:VAL:HG13	3:D:1075:HIS:ND1	2.13	0.63
2:C:560:MET:HE2	2:C:560:MET:HA	1.78	0.63
3:D:550:ARG:HG2	3:D:553:ARG:NH2	2.14	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:628:ARG:HG3	3:D:628:ARG:NH1	2.13	0.63
3:D:922:LEU:HD22	3:D:926:LYS:HD3	1.80	0.63
3:D:1487:VAL:HG11	3:D:1492:LEU:HD23	1.79	0.63
2:H:584:GLU:CD	2:H:584:GLU:H	2.00	0.63
2:H:707:ARG:HD2	2:H:824:ARG:NH1	2.14	0.63
3:I:470:LEU:HB2	3:I:503:LEU:HD21	1.80	0.63
3:I:710:ARG:HH22	3:I:1210:SER:HB2	1.64	0.63
3:I:1458:GLU:HB3	3:I:1460:ILE:HD12	1.79	0.63
2:M:151:ASP:HB3	2:M:154:ARG:O	1.98	0.63
3:N:650:LEU:HD12	3:N:691:LEU:HD13	1.80	0.63
3:N:1310:ARG:CB	3:N:1327:ARG:HH21	2.04	0.63
1:A:8:ALA:HB1	1:B:224:TYR:HE1	1.64	0.63
2:C:292:ARG:CG	2:C:299:LYS:HG2	2.29	0.63
2:C:292:ARG:HG2	2:C:299:LYS:HG2	1.81	0.63
3:D:133:ILE:O	3:D:152:LEU:HB2	1.98	0.63
3:D:147:VAL:HG22	3:D:149:LYS:H	1.62	0.63
3:D:1209:LEU:HD12	3:D:1215:VAL:HG13	1.80	0.63
2:H:1094:ALA:C	2:H:1095:LEU:HD13	2.17	0.63
3:I:630:VAL:O	3:I:726:ILE:HD12	1.97	0.63
3:I:804:LEU:HD11	3:I:831:GLY:CA	2.26	0.63
3:I:1426:LYS:HD3	3:I:1429:LEU:CD2	2.28	0.63
1:L:162:ILE:HG13	1:L:163:ASN:N	2.12	0.63
3:N:631:ILE:H	3:N:631:ILE:HD13	1.64	0.63
4:O:40:LEU:HD13	4:O:72:ARG:NH2	2.12	0.63
5:Y:19:LEU:HD11	5:Y:62:ILE:CD1	2.29	0.63
2:C:205:GLU:O	2:C:209:ARG:HD2	1.99	0.63
2:C:267:TYR:HB2	2:C:272:ALA:HB3	1.81	0.63
3:D:8:VAL:HG12	3:D:1434:TRP:CH2	2.33	0.63
3:D:809:PRO:O	3:D:812:ALA:HB3	1.98	0.63
3:D:948:THR:C	3:D:949:ILE:HD12	2.18	0.63
3:D:1323:GLN:O	3:D:1325:LEU:HD12	1.98	0.63
1:F:41:ARG:O	1:F:45:LEU:HD13	1.98	0.63
2:H:26:TYR:CE2	2:H:30:LEU:HD21	2.33	0.63
2:H:948:GLU:OE1	2:H:955:PRO:HA	1.99	0.63
3:I:30:GLU:HB3	3:I:40:GLU:HB3	1.81	0.63
3:I:153:LEU:HD12	3:I:153:LEU:N	2.12	0.63
2:M:256:TYR:CZ	2:M:261:ILE:HG13	2.34	0.63
2:M:1025:ALA:O	2:M:1026:GLN:HG3	1.98	0.63
5:X:45:ASN:O	5:X:47:GLY:N	2.31	0.63
5:Z:109:GLU:O	5:Z:110:ALA:O	2.17	0.63
1:A:26:GLU:OE1	1:A:194:LYS:HG3	1.97	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:89:PHE:CD2	1:A:146:ARG:HD2	2.34	0.63
1:B:62:LEU:HD13	1:B:63:HIS:H	1.63	0.63
3:D:135:LEU:HD11	3:D:147:VAL:CG2	2.29	0.63
3:D:783:ARG:HE	3:D:1029:ARG:HD2	1.61	0.63
2:H:705:ILE:HG22	2:H:706:GLU:N	2.13	0.63
2:H:805:ARG:HG3	2:H:823:VAL:HG22	1.80	0.63
2:H:964:LYS:O	2:H:968:LEU:HG	1.99	0.63
2:H:1067:TYR:CE1	2:H:1071:ILE:HD11	2.34	0.63
3:I:125:GLN:HE22	3:I:587:ARG:HH21	1.47	0.63
3:I:465:LEU:HD22	3:I:509:PRO:HB2	1.81	0.63
3:I:811:GLU:HG2	3:I:815:ALA:HB2	1.81	0.63
3:I:1115:THR:HG22	3:I:1115:THR:O	1.98	0.63
3:I:1182:GLU:O	3:I:1183:ILE:HG23	1.98	0.63
1:L:29:GLU:OE1	1:L:30:ARG:HG3	1.97	0.63
2:M:983:ILE:HG22	3:N:944:THR:HA	1.80	0.63
3:N:119:SER:HB3	3:N:123:LEU:CB	2.24	0.63
3:N:586:ARG:HH21	3:N:1444:THR:HG21	1.64	0.63
3:N:800:LYS:HA	3:N:829:VAL:HG13	1.80	0.63
3:N:1434:TRP:CE3	3:N:1457:ASP:HB2	2.34	0.63
5:X:132:HIS:HB3	5:X:136:ASP:OD2	1.99	0.63
1:A:32:PHE:CZ	1:B:43:ILE:HD12	2.33	0.63
2:C:141:HIS:CB	2:C:418:LEU:HD23	2.27	0.63
2:C:1043:TYR:HB3	3:D:763:MET:HE1	1.80	0.63
3:D:25:GLU:HG3	3:D:92:HIS:O	1.98	0.63
3:D:39:PRO:HG2	3:D:45:PHE:O	1.99	0.63
3:D:829:VAL:HG12	3:D:830:ALA:N	2.14	0.63
3:D:1121:PRO:HD2	3:D:1346:ARG:HH21	1.64	0.63
3:D:1132:LEU:H	3:D:1132:LEU:HD12	1.63	0.63
3:D:1256:LEU:HD13	3:D:1256:LEU:O	1.98	0.63
1:F:225:PHE:CE2	1:G:25:LEU:HD22	2.34	0.63
2:H:203:ASP:HB2	2:H:206:THR:HG22	1.78	0.63
2:H:1066:ALA:O	2:H:1070:ILE:HG12	1.98	0.63
3:I:366:LYS:HD2	3:I:366:LYS:N	2.12	0.63
3:I:1147:ARG:HB2	3:I:1166:LEU:HD21	1.79	0.63
3:I:1312:LEU:HD21	3:I:1327:ARG:NE	2.13	0.63
1:K:35:THR:O	1:K:39:PRO:HG2	1.99	0.63
2:M:679:PHE:H	2:M:683:ASN:HD21	1.46	0.63
3:N:1330:ILE:HG21	3:N:1335:LEU:HD13	1.81	0.63
5:X:115:THR:OG1	5:X:116:PRO:HD3	1.98	0.63
5:Y:104:VAL:HG13	5:Y:119:ILE:HB	1.79	0.63
2:C:597:ALA:HB2	2:C:655:LEU:HD21	1.80	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:683:ASN:HA	2:C:687:ALA:HB3	1.81	0.63
3:D:669:ASN:O	3:D:672:ALA:HB3	1.99	0.63
3:D:835:SER:H	3:D:838:ARG:NE	1.97	0.63
3:D:996:TRP:O	3:D:1000:THR:HG22	1.99	0.63
3:D:1283:ILE:HG22	3:D:1284:GLU:H	1.64	0.63
1:G:58:ILE:HG23	1:G:139:ASN:O	1.98	0.63
3:I:177:ALA:HB3	3:I:205:TYR:OH	1.99	0.63
2:M:135:VAL:O	2:M:392:SER:HA	1.99	0.63
2:M:726:ILE:HD13	2:M:730:SER:H	1.64	0.63
3:N:135:LEU:HD12	3:N:136:ASP:H	1.64	0.63
3:N:200:ASP:CG	3:N:201:GLY:H	2.02	0.63
3:N:669:ASN:OD1	3:N:672:ALA:HB2	1.97	0.63
3:N:1263:PHE:HE2	3:N:1371:VAL:HG11	1.63	0.63
5:Y:104:VAL:HG22	5:Y:119:ILE:HG13	1.81	0.63
1:B:74:ASP:HB2	3:D:872:ARG:NH2	2.08	0.62
2:C:713:ARG:HE	2:C:758:ARG:HH22	1.44	0.62
2:C:801:VAL:HG22	2:C:826:TYR:O	1.99	0.62
3:D:361:VAL:HG12	3:D:383:GLY:N	2.14	0.62
1:F:62:LEU:H	1:F:62:LEU:HD12	1.64	0.62
1:F:165:ILE:H	1:F:165:ILE:HD12	1.63	0.62
2:H:48:PHE:O	2:H:52:PHE:HB2	1.98	0.62
2:H:679:PHE:CD2	2:H:680:ASP:N	2.63	0.62
3:I:84:ILE:HG22	3:I:87:ARG:NH2	2.14	0.62
3:I:513:ILE:O	3:I:513:ILE:HD12	1.99	0.62
3:I:636:GLN:HE21	3:I:637:LEU:HB2	1.64	0.62
3:I:1200:VAL:HG22	3:I:1373:ARG:NH1	2.13	0.62
3:I:1463:LYS:O	3:I:1466:VAL:HB	1.99	0.62
1:K:101:LEU:HG	1:K:114:PHE:HA	1.81	0.62
2:M:700:TYR:HB3	2:M:833:LEU:HD13	1.80	0.62
2:M:754:ILE:HG13	2:M:791:ARG:HH12	1.64	0.62
2:M:755:LEU:HB2	2:M:790:LEU:CD2	2.29	0.62
3:N:367:ILE:HD11	3:N:379:ALA:HA	1.81	0.62
3:N:400:VAL:HG22	3:N:402:PRO:HD3	1.80	0.62
3:N:636:GLN:NE2	3:N:637:LEU:H	1.97	0.62
3:N:1197:ARG:HA	3:N:1396:GLU:HG3	1.80	0.62
3:N:1377:LYS:O	3:N:1377:LYS:HG2	1.98	0.62
3:N:1491:THR:HG23	4:O:92:LEU:HD12	1.80	0.62
5:X:99:ARG:HE	5:X:152:VAL:HG11	1.64	0.62
2:C:94:LEU:HD22	2:C:94:LEU:C	2.20	0.62
3:D:971:LEU:HD13	3:D:995:LEU:HD23	1.81	0.62
3:D:1282:ARG:HH21	3:D:1315:ASP:HB3	1.62	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:26:GLU:HB2	1:F:194:LYS:HA	1.80	0.62
2:H:69:LEU:HD12	2:H:110:GLU:HG3	1.81	0.62
2:H:261:ILE:HG13	2:H:262:ALA:H	1.64	0.62
3:I:895:VAL:HG13	3:I:921:ARG:HH12	1.64	0.62
3:I:1044:LEU:HD22	3:I:1053:PHE:HB3	1.81	0.62
1:K:9:PRO:HG3	1:K:27:PRO:O	1.99	0.62
1:K:52:ALA:HB1	1:K:170:VAL:HG22	1.81	0.62
1:K:96:THR:HG22	1:K:145:ASP:OD2	1.98	0.62
3:N:1093:TYR:O	3:N:1096:ARG:HB2	2.00	0.62
3:N:1485:GLN:HE21	4:O:79:LEU:H	1.46	0.62
4:O:54:LEU:HG	4:O:58:PRO:HG3	1.81	0.62
1:A:225:PHE:CE2	1:B:25:LEU:HD13	2.33	0.62
1:B:185:ARG:HG2	1:B:186:LEU:N	2.13	0.62
2:C:50:GLU:HG2	2:C:51:THR:N	2.13	0.62
2:C:944:LEU:HD11	2:C:963:LEU:CD2	2.30	0.62
3:D:704:ARG:HE	3:D:705:ALA:H	1.46	0.62
3:D:731:LEU:HD22	3:D:779:ALA:HA	1.81	0.62
1:F:55:SER:HA	1:F:167:VAL:HG23	1.80	0.62
1:G:68:ILE:HD12	1:G:68:ILE:N	2.14	0.62
2:H:877:PRO:HG2	2:H:878:SER:H	1.64	0.62
3:I:1042:ARG:HD2	3:I:1061:PHE:CE1	2.30	0.62
4:J:86:GLN:O	4:J:90:GLU:HG3	1.98	0.62
1:L:57:TYR:C	1:L:58:ILE:HD12	2.18	0.62
2:M:331:ARG:HH22	2:M:427:VAL:HG21	1.63	0.62
3:N:1045:MET:SD	3:N:1073:SER:HA	2.38	0.62
3:N:1106:VAL:HG22	3:N:1220:ALA:HA	1.81	0.62
5:Y:41:ASP:OD1	5:Y:45:ASN:ND2	2.31	0.62
2:C:666:LEU:HG	2:C:668:LEU:HD11	1.81	0.62
2:C:673:LEU:O	2:C:869:VAL:HG12	2.00	0.62
2:C:1029:GLY:O	3:D:622:ARG:HD2	1.99	0.62
3:D:12:LEU:H	3:D:12:LEU:HD12	1.65	0.62
3:D:521:PRO:HB2	3:D:524:LEU:HD13	1.80	0.62
3:D:1231:GLU:HB3	3:D:1232:PRO:HD3	1.81	0.62
1:G:52:ALA:HB2	1:G:170:VAL:C	2.19	0.62
2:H:885:ILE:HD12	3:I:949:ILE:HG22	1.80	0.62
2:H:939:ARG:CZ	2:H:982:PRO:HD2	2.28	0.62
3:I:44:LEU:H	3:I:44:LEU:CD1	2.10	0.62
3:I:1485:GLN:HE21	4:J:79:LEU:H	1.47	0.62
1:L:70:GLY:O	1:L:132:LEU:HA	2.00	0.62
2:M:585:GLU:O	2:M:588:VAL:HG22	2.00	0.62
5:Z:93:ASP:HB3	5:Z:98:GLU:H	1.63	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:61:VAL:HG23	1:B:68:ILE:HD11	1.80	0.62
2:C:66:LEU:HG	2:C:66:LEU:O	1.99	0.62
2:C:752:GLY:H	2:C:792:VAL:HB	1.63	0.62
3:D:1062:ARG:O	3:D:1062:ARG:HD3	1.99	0.62
3:D:1108:ARG:CZ	3:D:1198:TYR:O	2.47	0.62
3:D:1149:LEU:HD21	3:D:1166:LEU:HD22	1.80	0.62
3:D:1156:LEU:HD12	3:D:1177:ALA:HB2	1.81	0.62
1:F:141:GLU:HG3	1:F:161:ARG:NH1	2.15	0.62
2:H:54:ILE:HD13	2:H:355:VAL:HG22	1.82	0.62
2:H:461:VAL:HG13	2:H:465:GLY:O	1.99	0.62
3:I:843:PHE:CE1	3:I:864:VAL:HG11	2.34	0.62
3:I:1434:TRP:CZ3	3:I:1457:ASP:HB2	2.35	0.62
3:N:600:LEU:H	3:N:600:LEU:CD1	2.12	0.62
3:N:1256:LEU:HD22	3:N:1259:VAL:HB	1.81	0.62
5:X:96:SER:OG	5:X:98:GLU:HB2	1.98	0.62
5:Y:41:ASP:CG	5:Y:48:TYR:CG	2.72	0.62
1:A:85:LEU:HA	1:A:124:ASN:ND2	2.13	0.62
1:A:152:PRO:HD2	1:A:155:LYS:HD2	1.82	0.62
1:B:51:THR:HG21	1:B:87:VAL:HG23	1.81	0.62
2:C:468:ARG:HD3	2:C:485:TYR:O	1.99	0.62
2:C:704:HIS:O	2:C:828:ALA:HB1	2.00	0.62
2:C:910:LYS:O	2:C:914:ILE:HD13	1.99	0.62
1:G:180:GLN:HA	1:G:180:GLN:HE21	1.64	0.62
1:G:219:ARG:HH11	1:G:219:ARG:CB	2.13	0.62
2:H:15:LEU:HD12	2:H:15:LEU:N	2.13	0.62
2:H:726:ILE:HG22	2:H:728:HIS:H	1.63	0.62
3:I:562:ALA:N	3:I:563:PRO:HD3	2.13	0.62
3:I:800:LYS:HZ3	3:I:830:ALA:HB3	1.63	0.62
3:I:1264:GLU:OE1	3:I:1425:THR:HB	2.00	0.62
1:K:25:LEU:HD23	1:K:28:LEU:HD21	1.82	0.62
2:M:39:ARG:HA	2:M:39:ARG:NE	2.15	0.62
2:M:1050:GLN:HA	2:M:1053:LEU:CG	2.30	0.62
3:N:887:ALA:HB1	3:N:893:GLU:HG3	1.82	0.62
3:N:1256:LEU:HD13	3:N:1256:LEU:C	2.20	0.62
4:O:31:LEU:HD12	4:O:32:ARG:H	1.64	0.62
4:O:38:THR:HG21	4:O:45:ARG:HH21	1.63	0.62
5:X:16:MET:SD	5:X:69:LEU:HD13	2.40	0.62
1:A:8:ALA:HB1	1:B:224:TYR:CE1	2.34	0.62
3:D:1031:ASN:O	3:D:1035:ILE:HG12	1.99	0.62
3:D:1472:ILE:HD13	3:D:1472:ILE:N	2.04	0.62
2:H:154:ARG:HD2	2:H:156:GLY:HA3	1.80	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:925:GLU:HG3	3:I:926:LYS:N	2.14	0.62
1:K:86:VAL:HG12	1:K:124:ASN:HD22	1.63	0.62
1:L:58:ILE:HD12	1:L:58:ILE:N	2.14	0.62
1:L:99:LEU:HD23	1:L:115:LEU:HD12	1.82	0.62
2:M:278:GLU:HG3	2:M:283:ILE:HD12	1.81	0.62
2:M:1055:LEU:HG	2:M:1079:PRO:HG2	1.82	0.62
3:N:802:ALA:O	3:N:804:LEU:N	2.32	0.62
1:B:177:VAL:HG12	1:B:199:ILE:HG13	1.82	0.62
1:B:184:THR:O	1:B:192:LEU:HG	1.99	0.62
2:C:12:VAL:HG22	2:C:13:ILE:N	2.13	0.62
2:C:69:LEU:HD11	2:C:99:GLN:CG	2.29	0.62
2:C:1073:GLY:HA3	3:D:659:LYS:HE2	1.80	0.62
3:D:792:ILE:O	3:D:878:GLY:HA3	1.99	0.62
1:F:56:VAL:CG1	1:F:140:MET:HB2	2.29	0.62
2:H:994:ILE:HG22	2:H:995:MET:H	1.64	0.62
1:K:39:PRO:CG	1:L:39:PRO:HG3	2.30	0.62
1:K:72:LYS:HZ2	2:M:644:VAL:HG12	1.63	0.62
1:K:101:LEU:HD12	1:K:114:PHE:CD1	2.35	0.62
3:N:834:THR:HB	3:N:874:GLU:OE1	2.00	0.62
3:N:1344:VAL:O	3:N:1348:LEU:HD22	2.00	0.62
1:A:45:LEU:HG	1:A:174:VAL:HG11	1.81	0.62
2:C:1056:LYS:HA	3:D:624:ASP:OD2	1.99	0.62
3:D:116:LEU:HD22	3:D:468:LEU:HD12	1.81	0.62
3:D:879:ARG:HH21	3:D:904:VAL:N	1.97	0.62
3:D:1262:LEU:HD21	3:D:1351:GLU:HG3	1.81	0.62
1:G:34:VAL:HG22	1:G:181:VAL:HG21	1.82	0.62
2:H:111:ASP:O	2:H:113:VAL:HG23	2.00	0.62
2:H:470:PRO:HB2	2:H:534:VAL:HG21	1.82	0.62
3:I:613:ARG:HA	3:I:613:ARG:NH1	2.15	0.62
3:N:1101:VAL:HG21	3:N:1424:VAL:HG23	1.82	0.62
3:D:563:PRO:HA	2:H:223:ASP:CB	2.27	0.62
3:D:785:ILE:H	3:D:785:ILE:HD12	1.64	0.62
3:D:814:ALA:HA	3:D:817:GLU:OE1	2.00	0.62
3:D:1208:ASP:O	3:D:1215:VAL:HG22	1.99	0.62
1:G:186:LEU:CB	1:G:192:LEU:HD11	2.29	0.62
1:G:195:LEU:HD22	1:G:196:THR:N	2.14	0.62
2:H:165:LEU:HB3	2:H:265:ARG:HE	1.63	0.62
2:H:196:LEU:O	2:H:200:LEU:HG	2.00	0.62
2:H:636:ALA:HB2	2:H:703:ILE:HD13	1.81	0.62
3:I:759:ALA:O	3:I:763:MET:HB3	1.99	0.62
1:K:88:ARG:NH1	1:K:121:GLU:HB3	2.11	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:118:ILE:HG13	2:M:118:ILE:O	2.00	0.62
2:M:860:HIS:HA	2:M:866:PRO:HA	1.81	0.62
2:M:861:LEU:CD2	2:M:862:PRO:HD2	2.30	0.62
3:N:659:LYS:O	3:N:659:LYS:HE3	1.99	0.62
3:N:841:TYR:HB2	3:N:864:VAL:HG13	1.81	0.62
4:O:70:THR:CG2	4:O:72:ARG:HG3	2.29	0.62
5:X:61:ARG:O	5:X:65:LEU:HG	1.99	0.62
5:X:136:ASP:O	5:X:150:ARG:HA	1.99	0.62
2:C:670:GLN:HB2	2:C:700:TYR:CE1	2.35	0.61
3:D:135:LEU:HD11	3:D:147:VAL:HG23	1.81	0.61
2:H:170:PRO:HG2	2:H:258:TYR:CE2	2.35	0.61
2:H:193:LEU:CD1	2:H:193:LEU:H	2.13	0.61
2:H:395:LYS:HE3	2:H:407:LYS:HE2	1.81	0.61
3:I:25:GLU:HB2	3:I:92:HIS:CE1	2.34	0.61
3:I:141:ILE:HD11	3:I:432:TYR:HB2	1.82	0.61
3:I:1166:LEU:HD23	3:I:1166:LEU:N	2.15	0.61
2:M:8:ARG:HB2	2:M:907:ASP:OD1	1.99	0.61
2:M:12:VAL:HG22	2:M:13:ILE:N	2.15	0.61
2:M:257:VAL:HG12	2:M:263:ASP:CG	2.20	0.61
2:M:260:LEU:HB2	2:M:291:ALA:HB1	1.82	0.61
2:M:343:GLN:HG2	2:M:385:PHE:HB2	1.82	0.61
2:M:705:ILE:HD12	2:M:705:ILE:N	2.14	0.61
3:N:482:LYS:HZ3	3:N:1389:LEU:HD21	1.65	0.61
3:N:705:ALA:CB	3:N:706:PRO:HD3	2.25	0.61
3:N:930:LEU:HD12	3:N:934:LEU:HD21	1.80	0.61
3:N:1235:GLN:OE1	5:Z:42:LEU:HD13	2.00	0.61
2:C:163:ILE:HD12	2:C:171:TRP:HE1	1.65	0.61
2:C:549:PHE:CD2	2:C:886:LEU:HB3	2.35	0.61
3:D:477:LEU:HD21	3:D:495:ARG:HD3	1.82	0.61
2:H:516:ARG:HG2	2:H:516:ARG:O	1.99	0.61
2:H:943:VAL:HG13	2:H:944:LEU:N	2.15	0.61
3:I:26:VAL:HG22	3:I:49:ILE:CD1	2.29	0.61
3:I:465:LEU:HD22	3:I:509:PRO:O	1.99	0.61
3:I:1003:VAL:O	3:I:1007:VAL:HG23	2.01	0.61
3:I:1481:VAL:HG13	4:J:18:ARG:NH2	2.16	0.61
2:C:73:LEU:HD23	2:C:94:LEU:CA	2.29	0.61
2:C:196:LEU:HG	2:C:238:LEU:HD11	1.80	0.61
3:D:639:LEU:HD12	3:D:640:HIS:N	2.15	0.61
3:D:792:ILE:HG23	3:D:793:THR:N	2.14	0.61
3:D:843:PHE:CE1	3:D:864:VAL:HG11	2.33	0.61
4:E:54:LEU:HG	4:E:58:PRO:HB3	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:10:VAL:HG11	1:G:229:GLN:HE21	1.66	0.61
1:F:197:LEU:N	1:F:197:LEU:CD2	2.63	0.61
1:G:71:VAL:CG1	1:G:73:GLU:HG2	2.29	0.61
1:G:124:ASN:N	1:G:125:PRO:HD3	2.15	0.61
2:H:417:GLY:C	2:H:418:LEU:HD12	2.19	0.61
2:H:439:CYS:HB3	2:H:442:GLU:HB2	1.81	0.61
2:H:499:ALA:HB2	2:H:533:ASP:HB2	1.81	0.61
3:I:115:LEU:O	3:I:115:LEU:HD23	2.00	0.61
3:I:434:ARG:HG3	3:I:435:VAL:N	2.13	0.61
3:I:805:GLU:HA	3:I:832:ARG:HG3	1.82	0.61
2:M:209:ARG:HB3	2:M:210:GLU:OE2	2.01	0.61
2:M:283:ILE:HG23	2:M:284:ARG:N	2.07	0.61
3:N:951:ILE:HG12	3:N:1062:ARG:HD3	1.82	0.61
3:N:1155:VAL:HG13	3:N:1182:GLU:HB3	1.82	0.61
5:X:93:ASP:HB3	5:X:96:SER:HB3	1.83	0.61
1:B:176:ARG:HG2	1:B:177:VAL:H	1.65	0.61
2:C:50:GLU:HG2	2:C:51:THR:HG23	1.82	0.61
2:C:252:LYS:HG2	2:C:252:LYS:O	1.98	0.61
1:F:28:LEU:HD22	1:F:32:PHE:HB3	1.82	0.61
1:F:151:VAL:N	1:F:169:ALA:HB3	2.15	0.61
2:H:300:ASP:OD2	2:H:303:PHE:HB2	2.00	0.61
2:H:390:GLN:CD	2:H:390:GLN:H	2.03	0.61
2:H:1076:VAL:CG2	3:I:752:SER:HA	2.31	0.61
3:I:133:ILE:HD12	3:I:158:TYR:CD2	2.36	0.61
3:I:415:VAL:HG12	3:I:416:ALA:N	2.15	0.61
3:I:807:ALA:HB2	3:I:833:GLU:OE2	1.99	0.61
3:I:887:ALA:HB1	3:I:893:GLU:HG3	1.81	0.61
2:M:545:ASN:OD1	2:M:905:ILE:HG12	2.00	0.61
2:M:1031:ARG:HG2	2:M:1032:PHE:H	1.65	0.61
3:N:481:MET:SD	3:N:493:ARG:HA	2.40	0.61
3:N:798:GLU:CD	3:N:828:LYS:HZ2	2.03	0.61
3:N:1108:ARG:HG2	3:N:1108:ARG:O	2.00	0.61
2:C:118:ILE:HD12	2:C:119:PRO:O	1.99	0.61
2:C:195:LEU:HD21	2:C:238:LEU:HA	1.82	0.61
2:C:583:LEU:O	2:C:587:VAL:HG23	1.99	0.61
2:C:639:GLN:O	2:C:641:PRO:HD3	2.01	0.61
3:D:1216:SER:OG	4:E:16:LYS:HB2	2.01	0.61
2:H:329:GLY:CA	2:H:489:THR:HG23	2.30	0.61
2:H:1068:GLU:HG2	2:H:1072:LYS:CD	2.30	0.61
3:I:15:PRO:HA	3:I:18:ILE:CD1	2.31	0.61
3:I:179:VAL:CG1	3:I:183:GLU:HB3	2.30	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:679:ARG:CZ	3:I:679:ARG:O	2.48	0.61
3:I:997:THR:HG21	5:Y:61:ARG:NH1	2.15	0.61
3:I:1099:VAL:HG22	3:I:1226:ALA:HB1	1.82	0.61
1:L:165:ILE:HD12	1:L:165:ILE:O	2.00	0.61
2:M:535:SER:O	2:M:538:GLN:HG2	2.01	0.61
3:N:834:THR:CG2	3:N:839:LEU:HD21	2.31	0.61
5:X:89:VAL:CG1	5:X:151:VAL:HG13	2.30	0.61
1:A:79:ILE:HG13	1:A:80:LEU:N	2.14	0.61
1:A:206:THR:H	1:A:209:GLU:HG3	1.65	0.61
2:C:194:VAL:HA	2:C:197:LEU:HD12	1.82	0.61
2:C:471:TYR:O	2:C:483:VAL:HG13	2.00	0.61
2:C:516:ARG:NH2	3:D:1067:VAL:HG23	2.15	0.61
2:C:943:VAL:HG23	2:C:985:GLY:H	1.66	0.61
2:C:1046:ALA:HB1	3:D:1471:LEU:HG	1.82	0.61
3:D:650:LEU:HD12	3:D:691:LEU:HD22	1.81	0.61
3:D:701:LEU:O	3:D:747:VAL:HA	2.00	0.61
3:D:1333:HIS:ND1	3:D:1421:LEU:HD11	2.15	0.61
2:H:585:GLU:O	2:H:588:VAL:HG22	1.99	0.61
2:H:1053:LEU:HD12	2:H:1054:THR:OG1	1.99	0.61
3:I:100:ALA:HB3	3:I:575:GLN:NE2	2.15	0.61
1:L:58:ILE:HG13	1:L:140:MET:HB3	1.80	0.61
2:M:44:ILE:N	2:M:44:ILE:HD12	2.16	0.61
2:M:374:ASN:N	2:M:374:ASN:ND2	2.49	0.61
2:M:470:PRO:HD3	2:M:485:TYR:CE2	2.35	0.61
3:N:105:VAL:HG22	3:N:112:ILE:HG21	1.81	0.61
3:N:356:PRO:HG2	3:N:359:ALA:HB2	1.83	0.61
3:N:698:LYS:HD3	3:N:756:GLN:HG2	1.83	0.61
1:B:124:ASN:HD22	1:B:127:LEU:HD12	1.63	0.61
2:C:367:LEU:HD22	2:C:371:LYS:HG2	1.83	0.61
2:C:713:ARG:HG3	2:C:758:ARG:HH22	1.64	0.61
2:C:918:LEU:HD11	2:C:968:LEU:HD23	1.82	0.61
3:D:649:ALA:O	3:D:653:PHE:HB2	2.01	0.61
3:D:684:LYS:H	3:D:684:LYS:HD3	1.65	0.61
3:D:1042:ARG:HD3	3:D:1045:MET:SD	2.40	0.61
2:H:722:ILE:CD1	2:H:741:GLY:HA3	2.30	0.61
3:I:104:PHE:O	3:I:112:ILE:HG22	2.00	0.61
3:I:681:ARG:H	3:I:681:ARG:HD2	1.65	0.61
3:I:978:TYR:HB2	3:I:983:LEU:HD12	1.82	0.61
1:L:158:ILE:O	1:L:166:PRO:HG3	1.99	0.61
1:L:219:ARG:HB3	1:L:219:ARG:NH1	2.12	0.61
2:M:508:ILE:HD13	2:M:529:VAL:HG21	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:104:PHE:O	3:N:112:ILE:HG22	1.99	0.61
3:N:908:LYS:HG3	3:N:909:ASN:N	2.13	0.61
1:B:185:ARG:HG2	1:B:186:LEU:H	1.66	0.61
2:C:120:LEU:HD23	2:C:121:MET:H	1.66	0.61
2:C:154:ARG:HH22	2:C:178:PRO:HG3	1.64	0.61
2:C:791:ARG:O	2:C:793:PRO:HD3	2.01	0.61
3:D:355:VAL:CG1	3:D:356:PRO:HD2	2.31	0.61
1:F:58:ILE:HG13	1:F:140:MET:HB3	1.82	0.61
2:H:118:ILE:H	2:H:118:ILE:CD1	2.12	0.61
2:H:339:LEU:HD13	2:H:391:LEU:HD11	1.82	0.61
2:H:1107:ASN:HB3	3:I:2:LYS:HD2	1.83	0.61
3:I:26:VAL:HG13	3:I:42:ASP:O	1.99	0.61
3:I:655:PRO:HA	3:I:658:LEU:HD12	1.83	0.61
3:I:679:ARG:O	3:I:679:ARG:NE	2.34	0.61
3:I:1231:GLU:HB3	3:I:1232:PRO:HD3	1.83	0.61
3:I:1279:GLY:HA3	3:I:1296:SER:OG	2.00	0.61
3:I:1424:VAL:HG13	3:I:1425:THR:N	2.15	0.61
2:M:89:THR:HG21	2:M:383:ARG:NH2	2.16	0.61
2:M:107:LEU:HD11	2:M:109:LYS:HB2	1.82	0.61
2:M:1031:ARG:HH22	3:N:619:LEU:HD22	1.65	0.61
3:N:464:LEU:O	3:N:464:LEU:HD22	2.01	0.61
3:N:520:LEU:CD2	3:N:524:LEU:HD23	2.30	0.61
3:N:1443:THR:O	3:N:1447:LEU:HD12	2.01	0.61
4:O:54:LEU:O	4:O:54:LEU:HD23	2.00	0.61
5:Z:70:SER:O	5:Z:72:ALA:N	2.29	0.61
1:A:44:LEU:HD11	1:A:199:ILE:CD1	2.31	0.61
2:C:492:ASP:HB3	2:C:518:LYS:HG2	1.82	0.61
3:D:105:VAL:HG13	3:D:124:GLU:HG2	1.81	0.61
3:D:890:VAL:HB	3:D:922:LEU:CD1	2.29	0.61
3:D:1490:LYS:NZ	4:E:39:VAL:HG12	2.15	0.61
1:F:101:LEU:HD12	1:F:114:PHE:CD1	2.36	0.61
3:I:123:LEU:HD21	3:I:152:LEU:HD21	1.83	0.61
2:M:730:SER:O	2:M:734:LEU:HD13	2.01	0.61
2:M:971:LYS:HB3	2:M:986:PRO:CB	2.31	0.61
3:N:127:LEU:HG	3:N:128:TYR:N	2.16	0.61
3:N:1189:ARG:HH11	3:N:1189:ARG:HG3	1.64	0.61
3:N:1277:ILE:HG12	3:N:1299:PHE:CZ	2.35	0.61
3:N:1363:LEU:HD23	3:N:1363:LEU:N	2.15	0.61
5:X:91:LEU:HD21	5:X:129:LEU:HD21	1.83	0.61
5:Z:29:ILE:HG22	5:Z:55:MET:HG2	1.83	0.61
1:A:83:LYS:HD3	1:A:167:VAL:HG12	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:103:ALA:H	1:A:138:LEU:HD23	1.66	0.61
2:C:73:LEU:N	2:C:73:LEU:CD1	2.64	0.61
2:C:441:VAL:HG23	2:C:544:THR:HG21	1.83	0.61
1:G:150:TYR:CE2	3:I:852:ALA:HB2	2.36	0.61
2:H:703:ILE:HD12	2:H:703:ILE:N	2.16	0.61
2:H:1013:TYR:HE1	2:H:1020:PRO:HG3	1.65	0.61
3:I:133:ILE:HD12	3:I:158:TYR:CE2	2.36	0.61
3:I:187:LYS:CE	3:I:199:LEU:HG	2.31	0.61
3:I:769:LEU:HD12	3:I:924:MET:HE3	1.83	0.61
3:I:1381:VAL:HG13	3:I:1398:TRP:HH2	1.65	0.61
4:J:59:ASN:HD21	4:J:61:VAL:CG2	2.13	0.61
1:K:35:THR:CG2	1:L:43:ILE:HD11	2.19	0.61
1:K:99:LEU:H	1:K:99:LEU:HD12	1.65	0.61
1:L:86:VAL:HG13	1:L:123:MET:SD	2.41	0.61
2:M:139:GLN:HE22	2:M:414:GLY:HA3	1.65	0.61
2:M:211:LEU:HD21	2:M:221:LEU:HD21	1.83	0.61
2:M:905:ILE:HG22	2:M:906:PHE:HD2	1.65	0.61
2:M:1034:GLU:HB3	3:N:618:LEU:O	2.00	0.61
2:M:1101:THR:O	2:M:1109:VAL:HB	2.01	0.61
3:N:148:GLU:HB3	3:N:151:GLN:HB3	1.83	0.61
3:N:162:ARG:HD3	3:N:162:ARG:C	2.20	0.61
3:N:1147:ARG:O	3:N:1165:TYR:HA	2.00	0.61
1:A:218:LEU:O	1:A:222:LEU:HD13	2.01	0.60
2:C:224:GLU:O	2:C:228:ALA:HB3	2.01	0.60
2:C:690:ILE:CG2	2:C:852:ILE:HG13	2.30	0.60
2:C:848:VAL:HG12	2:C:849:VAL:N	2.16	0.60
3:D:477:LEU:HD11	3:D:495:ARG:HG2	1.83	0.60
2:H:149:THR:HG23	2:H:159:ILE:HD11	1.81	0.60
2:H:497:ALA:HA	2:H:515:ALA:CB	2.30	0.60
2:H:1021:LEU:HD21	3:I:622:ARG:NE	2.16	0.60
3:I:1487:VAL:HG23	4:J:79:LEU:HD23	1.83	0.60
2:M:99:GLN:HB3	2:M:110:GLU:HB2	1.83	0.60
2:M:164:PRO:HB2	2:M:265:ARG:H	1.66	0.60
2:M:571:LEU:HD23	2:M:700:TYR:HA	1.83	0.60
2:M:607:ASP:CB	2:M:610:ARG:HG2	2.31	0.60
2:M:953:VAL:HG11	2:M:962:GLN:HB3	1.82	0.60
3:N:17:LYS:O	3:N:20:SER:HB2	2.01	0.60
3:N:550:ARG:HG3	3:N:553:ARG:HH21	1.66	0.60
3:N:813:LEU:HD12	3:N:814:ALA:N	2.16	0.60
3:N:992:ILE:O	3:N:995:LEU:HB2	2.01	0.60
3:N:1209:LEU:HD12	3:N:1215:VAL:HG13	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:O:35:PHE:O	4:O:36:LYS:HG2	2.01	0.60
5:Z:48:TYR:OH	5:Z:52:ARG:NH2	2.33	0.60
1:A:44:LEU:HD13	1:A:177:VAL:HG11	1.83	0.60
2:C:20:GLU:HA	2:C:23:VAL:HB	1.83	0.60
2:C:343:GLN:HA	2:C:343:GLN:HE21	1.65	0.60
3:D:729:HIS:CE1	3:D:731:LEU:HB2	2.36	0.60
3:D:1256:LEU:N	3:D:1257:PRO:CD	2.64	0.60
3:D:1356:TYR:HB3	3:D:1361:VAL:HB	1.83	0.60
3:D:1382:THR:HB	3:D:1416:ALA:HB3	1.83	0.60
3:D:1485:GLN:HG3	4:E:79:LEU:H	1.66	0.60
1:G:41:ARG:NH1	1:G:177:VAL:HG23	2.16	0.60
2:H:168:ARG:O	2:H:263:ASP:HA	2.02	0.60
2:H:373:VAL:HG22	2:H:374:ASN:N	2.16	0.60
3:I:705:ALA:HB3	3:I:706:PRO:CD	2.23	0.60
3:I:935:LYS:HE2	3:I:936:TYR:N	2.16	0.60
3:I:1209:LEU:HG	3:I:1210:SER:N	2.16	0.60
2:M:479:VAL:HG11	2:M:503:LEU:HD11	1.81	0.60
3:N:984:THR:HG23	3:N:987:GLU:H	1.65	0.60
1:A:153:ALA:HA	1:A:156:HIS:NE2	2.17	0.60
1:B:85:LEU:HD21	1:B:111:ALA:HB1	1.83	0.60
2:C:203:ASP:HB2	2:C:205:GLU:OE2	2.00	0.60
3:D:598:ARG:O	3:D:598:ARG:HG2	2.01	0.60
3:D:804:LEU:CD2	3:D:831:GLY:HA2	2.29	0.60
1:F:162:ILE:HD12	1:F:163:ASN:H	1.67	0.60
2:H:1067:TYR:CZ	2:H:1071:ILE:HD11	2.36	0.60
3:I:106:LYS:HE2	3:I:106:LYS:HA	1.83	0.60
3:I:353:VAL:HG22	3:I:368:VAL:HG22	1.83	0.60
3:I:401:TYR:HB3	3:I:427:VAL:HG13	1.83	0.60
3:I:546:ARG:HH11	3:I:546:ARG:CB	2.14	0.60
3:I:799:LYS:HD2	3:I:799:LYS:C	2.21	0.60
3:I:1044:LEU:CD2	3:I:1053:PHE:HB3	2.31	0.60
3:I:1447:LEU:H	3:I:1447:LEU:HD12	1.65	0.60
2:M:1031:ARG:NH2	3:N:619:LEU:HD22	2.17	0.60
2:M:1045:ALA:HB1	2:M:1048:THR:HB	1.84	0.60
2:M:1099:VAL:HG22	3:N:10:ILE:CD1	2.30	0.60
3:N:1425:THR:O	3:N:1429:LEU:HD13	2.01	0.60
5:Y:107:PRO:HD3	5:Y:121:ASP:CB	2.30	0.60
5:Z:53:ARG:O	5:Z:56:TRP:HB3	2.00	0.60
1:A:158:ILE:O	1:A:166:PRO:HG3	2.02	0.60
1:A:220:GLU:O	1:A:223:THR:HG22	2.00	0.60
1:B:104:GLU:O	1:B:107:LYS:HD3	2.02	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:119:SER:HB2	3:D:123:LEU:HD13	1.82	0.60
3:D:1236:LEU:HD12	3:D:1256:LEU:HD22	1.84	0.60
3:D:1463:LYS:O	3:D:1466:VAL:HB	2.00	0.60
4:E:48:MET:HB3	4:E:51:LEU:O	2.02	0.60
1:F:26:GLU:HG3	1:F:27:PRO:HA	1.83	0.60
1:G:156:HIS:ND1	1:G:158:ILE:HG12	2.17	0.60
1:G:177:VAL:HG12	1:G:199:ILE:HG23	1.83	0.60
2:H:195:LEU:HD21	2:H:238:LEU:HA	1.82	0.60
2:H:313:LEU:HD12	2:H:314:THR:HG23	1.82	0.60
2:H:571:LEU:HD23	2:H:670:GLN:NE2	2.17	0.60
2:H:839:LEU:N	2:H:839:LEU:HD23	2.16	0.60
3:I:616:GLN:C	3:I:618:LEU:H	2.04	0.60
3:I:1093:TYR:CE1	3:I:1097:LYS:HD3	2.37	0.60
1:L:76:VAL:HA	1:L:79:ILE:CG2	2.31	0.60
2:M:107:LEU:HD13	2:M:109:LYS:N	2.16	0.60
2:M:418:LEU:HD12	2:M:419:THR:H	1.65	0.60
2:M:683:ASN:CA	2:M:687:ALA:HB3	2.31	0.60
2:M:1014:SER:HB3	2:M:1019:GLN:H	1.66	0.60
3:N:11:ALA:HA	3:N:1451:ALA:O	2.02	0.60
3:N:136:ASP:CB	3:N:137:PRO:HD3	2.30	0.60
3:N:930:LEU:HD11	3:N:934:LEU:HD21	1.82	0.60
3:N:1054:GLU:O	3:N:1056:PRO:HD3	2.01	0.60
2:C:595:LEU:CD2	2:C:655:LEU:HB2	2.30	0.60
2:C:670:GLN:HB2	2:C:700:TYR:HE1	1.67	0.60
2:C:861:LEU:HD12	2:C:862:PRO:HD2	1.83	0.60
2:C:1033:GLY:O	2:C:1037:VAL:HG23	2.01	0.60
3:D:411:THR:HG23	3:D:437:VAL:N	2.15	0.60
3:D:581:LEU:O	3:D:602:SER:HB2	2.02	0.60
1:G:85:LEU:HD12	1:G:86:VAL:N	2.16	0.60
1:G:165:ILE:O	1:G:165:ILE:HG12	2.01	0.60
2:H:64:LEU:HD22	2:H:356:ARG:HA	1.83	0.60
2:H:352:ALA:HA	2:H:355:VAL:CG1	2.31	0.60
2:H:572:ILE:HD13	2:H:573:ARG:HG3	1.84	0.60
3:I:171:LEU:HD13	3:I:390:PRO:HG2	1.82	0.60
3:I:189:GLN:HG2	3:I:190:GLU:N	2.17	0.60
3:I:586:ARG:HH21	3:I:1444:THR:HG21	1.67	0.60
3:I:695:ILE:HG23	3:I:696:HIS:N	2.16	0.60
3:I:720:LEU:HD13	3:I:720:LEU:N	2.14	0.60
3:I:860:LEU:CD1	3:I:861:GLN:HE22	2.14	0.60
3:I:860:LEU:N	3:I:860:LEU:HD23	2.16	0.60
3:I:1277:ILE:HD11	3:I:1301:LYS:HZ1	1.67	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:52:ALA:O	1:K:144:VAL:HG13	2.02	0.60
1:K:58:ILE:HD13	1:K:139:ASN:O	2.01	0.60
1:K:99:LEU:HD12	1:K:99:LEU:N	2.17	0.60
2:M:332:ARG:HD3	2:M:464:LEU:O	2.02	0.60
3:N:102:ILE:HD11	3:N:106:LYS:CG	2.32	0.60
3:N:141:ILE:HD13	3:N:161:LEU:O	2.01	0.60
3:N:807:ALA:HB2	3:N:832:ARG:CG	2.31	0.60
5:Z:15:LEU:HD11	5:Z:109:GLU:HG2	1.83	0.60
5:Z:134:VAL:HG22	5:Z:153:ALA:HA	1.83	0.60
1:B:109:VAL:HB	1:B:130:ALA:O	2.01	0.60
2:C:854:PRO:HB2	2:C:856:GLU:HG3	1.83	0.60
3:D:423:ASP:O	3:D:426:LYS:HD3	2.02	0.60
1:G:56:VAL:HG13	1:G:142:VAL:HG12	1.84	0.60
2:H:508:ILE:HD13	2:H:529:VAL:HG21	1.82	0.60
2:H:625:LEU:HA	2:H:639:GLN:OE1	2.01	0.60
2:H:1008:ARG:HG3	2:H:1027:PHE:O	2.01	0.60
3:I:105:VAL:HG13	3:I:124:GLU:HG2	1.84	0.60
3:I:108:VAL:HB	3:I:109:PRO:CD	2.23	0.60
3:I:699:VAL:HG12	3:I:717:GLN:HA	1.83	0.60
1:K:100:LEU:HD12	1:K:101:LEU:N	2.15	0.60
2:M:549:PHE:HZ	2:M:890:LEU:HD12	1.66	0.60
2:M:736:ASP:HA	2:M:744:ARG:HD2	1.84	0.60
2:M:905:ILE:HG22	2:M:906:PHE:CD2	2.37	0.60
3:N:644:LEU:HD12	3:N:645:PRO:HD2	1.82	0.60
3:N:911:LEU:O	3:N:915:VAL:HG23	2.00	0.60
5:X:45:ASN:HB3	5:X:48:TYR:H	1.65	0.60
5:Y:16:MET:HE1	5:Y:69:LEU:HD13	1.82	0.60
1:A:58:ILE:HD12	1:A:140:MET:HB3	1.83	0.60
1:B:90:LEU:HD13	1:B:119:ASP:OD1	2.02	0.60
2:C:6:PHE:CD1	2:C:909:ALA:HB2	2.37	0.60
2:C:471:TYR:H	2:C:483:VAL:CG1	2.15	0.60
2:C:537:LYS:HE3	2:C:905:ILE:HD13	1.84	0.60
3:D:26:VAL:HG12	3:D:49:ILE:HD12	1.83	0.60
3:D:378:ILE:HG22	3:D:379:ALA:N	2.15	0.60
3:D:1067:VAL:HG23	3:D:1068:LEU:H	1.67	0.60
3:D:1239:ARG:N	5:X:56:TRP:HZ3	2.00	0.60
3:D:1350:GLU:O	3:D:1354:LYS:HG2	2.02	0.60
1:G:165:ILE:HD13	1:G:165:ILE:N	2.17	0.60
3:I:653:PHE:HE1	3:I:749:VAL:HG11	1.67	0.60
3:I:877:PRO:O	3:I:880:ILE:HG22	2.02	0.60
3:I:1036:ARG:HB3	3:I:1036:ARG:NH1	2.17	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:1256:LEU:HD12	3:I:1259:VAL:HG21	1.83	0.60
2:M:263:ASP:CB	2:M:264:PRO:HD3	2.32	0.60
2:M:290:LEU:HA	2:M:302:VAL:HG11	1.81	0.60
3:N:52:PRO:HD2	3:N:86:ARG:HE	1.66	0.60
3:N:1275:SER:HB3	3:N:1325:LEU:HD21	1.83	0.60
3:N:1464:GLU:O	3:N:1468:LEU:HD23	2.02	0.60
2:C:328:LEU:HD11	2:C:434:HIS:CD2	2.37	0.60
3:D:1107:VAL:HB	3:D:1218:GLY:H	1.67	0.60
3:D:1320:GLU:H	3:D:1323:GLN:HE22	1.47	0.60
2:H:1:MET:HG3	2:H:899:GLN:HA	1.83	0.60
2:H:113:VAL:CG1	2:H:373:VAL:HG21	2.32	0.60
2:H:859:PRO:O	2:H:867:VAL:HG22	2.01	0.60
3:I:10:ILE:HD12	3:I:1434:TRP:CE2	2.37	0.60
3:I:143:ASN:HB3	3:I:161:LEU:HD13	1.83	0.60
3:I:893:GLU:O	3:I:896:ALA:HB3	2.02	0.60
3:I:1208:ASP:O	3:I:1215:VAL:HG22	2.02	0.60
2:M:12:VAL:HG13	2:M:13:ILE:N	2.14	0.60
2:M:683:ASN:N	2:M:683:ASN:ND2	2.49	0.60
2:M:860:HIS:O	2:M:974:LEU:HD12	2.01	0.60
5:Y:35:GLN:HB3	5:Y:39:GLU:OE2	2.02	0.60
2:C:102:HIS:NE2	2:C:107:LEU:HD13	2.15	0.60
2:C:328:LEU:HD22	2:C:433:THR:O	2.01	0.60
2:C:915:LYS:HA	2:C:918:LEU:CD2	2.27	0.60
3:D:207:PHE:HB2	3:D:391:ALA:CB	2.30	0.60
3:D:553:ARG:O	3:D:557:LEU:HG	2.02	0.60
3:D:971:LEU:HD11	3:D:992:ILE:HG12	1.84	0.60
1:G:57:TYR:O	1:G:58:ILE:HD13	2.02	0.60
2:H:269:LEU:HG	2:H:287:GLY:O	2.01	0.60
2:H:393:GLN:HE22	2:H:409:ARG:NH2	1.99	0.60
2:H:437:ARG:HH12	2:H:488:ALA:HA	1.66	0.60
3:I:403:PHE:CD2	3:I:444:VAL:HG23	2.36	0.60
3:I:675:ARG:HH11	3:I:675:ARG:HG3	1.67	0.60
1:K:137:ARG:HH11	1:K:137:ARG:HG3	1.66	0.60
1:L:24:VAL:HG22	1:L:196:THR:HG22	1.84	0.60
2:M:670:GLN:HB2	2:M:700:TYR:CE1	2.36	0.60
3:N:893:GLU:O	3:N:896:ALA:HB3	2.02	0.60
3:N:1097:LYS:HA	3:N:1100:ASP:OD2	2.02	0.60
5:X:128:ALA:HB1	5:X:138:LEU:HD12	1.82	0.60
5:X:132:HIS:HB3	5:X:136:ASP:CG	2.21	0.60
5:Z:85:LEU:HD23	5:Z:105:VAL:HA	1.83	0.60
2:C:139:GLN:O	2:C:333:ILE:HD13	2.02	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:293:PHE:HA	2:C:298:PHE:HD2	1.67	0.60
2:C:383:ARG:HG2	2:C:388:ARG:NH1	2.15	0.60
2:C:806:LEU:HB2	2:C:822:VAL:CG2	2.32	0.60
2:C:879:ARG:NH2	5:X:41:ASP:OD2	2.35	0.60
3:D:804:LEU:HD11	3:D:830:ALA:O	2.01	0.60
3:D:1250:ALA:O	3:D:1251:ASP:CB	2.49	0.60
2:H:100:LEU:HD13	2:H:101:ILE:N	2.17	0.60
2:H:265:ARG:HB3	2:H:267:TYR:CE2	2.36	0.60
2:H:588:VAL:HG23	2:H:596:TYR:OH	2.01	0.60
2:H:754:ILE:HG13	2:H:791:ARG:HG3	1.83	0.60
3:I:714:GLN:HB2	3:I:736:PHE:HZ	1.66	0.60
3:I:891:GLU:H	3:I:926:LYS:NZ	2.00	0.60
3:I:921:ARG:HH11	3:I:921:ARG:HG3	1.66	0.60
3:I:1146:GLY:HA3	3:I:1207:TYR:CB	2.29	0.60
1:L:132:LEU:HD21	1:L:138:LEU:CB	2.29	0.60
2:M:63:GLY:HA3	2:M:103:LYS:NZ	2.17	0.60
2:M:674:VAL:HG23	2:M:869:VAL:HG13	1.84	0.60
3:N:30:GLU:HB3	3:N:40:GLU:HB3	1.83	0.60
3:N:806:PHE:CZ	3:N:813:LEU:HB3	2.37	0.60
5:X:26:LEU:HD13	5:X:58:ASN:HB3	1.84	0.60
5:Y:138:LEU:O	5:Y:148:GLU:HG3	2.00	0.60
2:C:472:ARG:HA	2:C:483:VAL:HG22	1.83	0.59
3:D:1250:ALA:O	3:D:1251:ASP:HB2	2.02	0.59
4:E:31:LEU:HD12	4:E:32:ARG:N	2.16	0.59
2:H:261:ILE:HG13	2:H:262:ALA:N	2.15	0.59
3:I:394:LEU:HD12	3:I:394:LEU:O	2.01	0.59
1:K:184:THR:CG2	1:K:192:LEU:HD12	2.32	0.59
2:M:205:GLU:HA	2:M:209:ARG:NH1	2.16	0.59
2:M:756:VAL:HG22	2:M:790:LEU:CD2	2.32	0.59
2:M:889:HIS:CE1	2:M:970:GLY:HA3	2.37	0.59
2:M:1095:LEU:CD2	3:N:603:LEU:HD22	2.27	0.59
3:N:814:ALA:O	3:N:817:GLU:HB3	2.02	0.59
5:X:52:ARG:O	5:X:55:MET:HB2	2.00	0.59
5:Y:7:LEU:CD2	5:Y:109:GLU:HG3	2.32	0.59
2:C:707:ARG:HG2	2:C:826:TYR:CE1	2.37	0.59
2:C:710:ILE:HD11	2:C:758:ARG:NH1	2.17	0.59
3:D:1256:LEU:HD12	3:D:1260:ILE:HD11	1.84	0.59
4:E:49:GLN:HG3	4:E:50:THR:N	2.17	0.59
1:G:53:VAL:CA	1:G:144:VAL:HG22	2.27	0.59
2:H:592:LEU:O	2:H:592:LEU:HD13	2.02	0.59
3:I:52:PRO:C	3:I:86:ARG:HE	2.05	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:525:ARG:HB3	3:I:540:LEU:CD2	2.12	0.59
3:I:1147:ARG:O	3:I:1165:TYR:HA	2.03	0.59
1:L:70:GLY:HA2	1:L:133:GLU:HG2	1.83	0.59
2:M:353:ARG:HH11	2:M:353:ARG:HG3	1.66	0.59
2:M:534:VAL:HB	2:M:538:GLN:OE1	2.03	0.59
2:M:835:VAL:HG13	2:M:836:GLY:N	2.17	0.59
3:N:147:VAL:HG22	3:N:149:LYS:H	1.67	0.59
3:N:398:ALA:HB2	3:N:447:VAL:HG12	1.85	0.59
5:Z:19:LEU:HD21	5:Z:23:ARG:HH21	1.67	0.59
3:D:137:PRO:HG2	3:D:452:ILE:HB	1.84	0.59
3:D:137:PRO:CG	3:D:452:ILE:HB	2.33	0.59
3:D:495:ARG:O	3:D:499:VAL:HG23	2.02	0.59
3:D:785:ILE:O	3:D:789:LEU:HD13	2.02	0.59
3:D:1491:THR:HG23	4:E:92:LEU:HD12	1.83	0.59
1:F:161:ARG:HB2	1:F:161:ARG:CZ	2.32	0.59
2:H:328:LEU:C	2:H:330:ASN:H	2.05	0.59
2:H:1037:VAL:O	2:H:1041:GLU:HG3	2.02	0.59
2:H:1052:MET:HE1	2:H:1056:LYS:HE3	1.82	0.59
2:M:221:LEU:C	2:M:223:ASP:H	2.05	0.59
2:M:376:ARG:HB3	2:M:377:PRO:HD3	1.82	0.59
2:M:560:MET:O	2:M:564:MET:HG2	2.03	0.59
2:M:690:ILE:HD11	2:M:694:LEU:HD22	1.84	0.59
2:M:837:ASP:O	2:M:849:VAL:HG23	2.02	0.59
3:N:102:ILE:HD11	3:N:106:LYS:HG3	1.83	0.59
3:N:1108:ARG:HH11	3:N:1108:ARG:HG3	1.67	0.59
5:Y:5:VAL:HB	5:Y:72:ALA:HA	1.84	0.59
5:Y:35:GLN:O	5:Y:39:GLU:HG3	2.01	0.59
5:Y:41:ASP:HA	5:Y:45:ASN:ND2	2.12	0.59
2:C:64:LEU:CD1	2:C:372:LEU:HD21	2.32	0.59
2:C:159:ILE:HD12	2:C:159:ILE:O	2.01	0.59
3:D:899:LEU:HD23	3:D:921:ARG:HE	1.67	0.59
2:H:1095:LEU:HD13	2:H:1095:LEU:N	2.18	0.59
3:I:696:HIS:NE2	4:J:54:LEU:HD11	2.17	0.59
3:I:704:ARG:HE	3:I:706:PRO:CD	2.16	0.59
3:I:942:SER:O	3:I:947:ILE:HD11	2.02	0.59
3:I:1236:LEU:HB2	3:I:1256:LEU:HB2	1.84	0.59
3:I:1424:VAL:HG13	3:I:1425:THR:H	1.67	0.59
2:M:292:ARG:HG2	2:M:299:LYS:HG2	1.84	0.59
2:M:700:TYR:O	2:M:833:LEU:HD13	2.03	0.59
2:M:744:ARG:HG3	2:M:747:ALA:HB2	1.83	0.59
2:M:1077:PRO:O	2:M:1079:PRO:HD3	2.02	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:1104:GLU:HB2	2:M:1105:LYS:HE2	1.85	0.59
3:N:169:TYR:OH	3:N:198:ARG:HG3	2.01	0.59
3:N:358:GLY:H	3:N:385:VAL:HB	1.68	0.59
3:N:843:PHE:HD2	3:N:848:GLU:HB3	1.66	0.59
1:A:103:ALA:H	1:A:138:LEU:HD21	1.64	0.59
1:B:143:ARG:CZ	1:B:158:ILE:HG21	2.32	0.59
2:C:13:ILE:O	2:C:13:ILE:HG23	2.02	0.59
2:C:202:TYR:OH	2:C:304:LEU:HB2	2.02	0.59
2:C:331:ARG:HH12	2:C:427:VAL:HG11	1.68	0.59
3:D:702:LEU:O	3:D:713:ILE:HA	2.02	0.59
3:D:813:LEU:HD12	3:D:814:ALA:HB2	1.85	0.59
3:D:841:TYR:HB2	3:D:864:VAL:HG13	1.83	0.59
3:D:1054:GLU:O	3:D:1056:PRO:HD3	2.02	0.59
3:D:1388:ARG:CZ	3:D:1389:LEU:HD22	2.32	0.59
3:D:1435:LEU:HD13	3:D:1457:ASP:OD2	2.02	0.59
3:D:1485:GLN:HE21	4:E:79:LEU:H	1.50	0.59
1:F:132:LEU:HG	1:F:136:GLY:HA3	1.84	0.59
1:G:99:LEU:HD12	1:G:99:LEU:N	2.18	0.59
1:G:190:THR:HB	3:I:722:GLU:OE1	2.02	0.59
2:H:154:ARG:HG3	2:H:154:ARG:O	2.01	0.59
2:H:906:PHE:HD1	3:I:1067:VAL:HG22	1.64	0.59
2:H:976:ASP:OD2	2:H:979:THR:HG22	2.03	0.59
3:I:613:ARG:O	3:I:613:ARG:HD3	2.02	0.59
3:I:1211:MET:CG	3:I:1212:ALA:H	2.12	0.59
4:J:68:LEU:N	4:J:68:LEU:CD1	2.66	0.59
1:K:101:LEU:HD23	1:K:102:LYS:N	2.17	0.59
2:M:810:ASP:HB3	2:M:813:VAL:HG12	1.85	0.59
2:M:994:ILE:H	2:M:994:ILE:HD12	1.67	0.59
3:N:708:LEU:HD12	3:N:708:LEU:N	2.16	0.59
3:N:714:GLN:HB2	3:N:736:PHE:HZ	1.65	0.59
3:N:806:PHE:HD1	3:N:812:ALA:HB3	1.68	0.59
5:X:107:PRO:HD3	5:X:121:ASP:HB2	1.83	0.59
1:A:90:LEU:HB2	1:A:119:ASP:OD2	2.02	0.59
1:A:124:ASN:HD21	1:A:127:LEU:HD22	1.68	0.59
2:C:439:CYS:HB3	2:C:442:GLU:HB2	1.85	0.59
3:D:119:SER:H	3:D:123:LEU:CD2	2.12	0.59
3:D:160:GLU:HG3	3:D:165:LYS:HD2	1.83	0.59
3:D:562:ALA:HB3	2:H:225:SER:H	1.68	0.59
3:D:695:ILE:HG23	3:D:696:HIS:H	1.66	0.59
3:D:1103:HIS:ND1	3:D:1104:GLU:HG3	2.18	0.59
3:D:1110:ALA:O	3:D:1111:ASP:HB3	2.01	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1488:ASP:HB3	4:E:26:ARG:NH2	2.17	0.59
2:H:751:PRO:HG3	2:H:796:GLU:HA	1.84	0.59
3:I:835:SER:N	3:I:838:ARG:HH11	1.99	0.59
3:I:910:SER:OG	3:I:911:LEU:HD12	2.02	0.59
3:I:1258:ARG:CZ	3:I:1262:LEU:HD11	2.32	0.59
1:L:85:LEU:HB2	1:L:127:LEU:HD23	1.84	0.59
2:M:876:VAL:H	2:M:877:PRO:CD	2.13	0.59
3:N:879:ARG:HH22	3:N:905:PRO:HG3	1.67	0.59
3:N:1330:ILE:HD13	3:N:1347:TYR:OH	2.03	0.59
5:Z:26:LEU:HD12	5:Z:26:LEU:O	2.02	0.59
1:A:138:LEU:C	1:A:138:LEU:HD12	2.22	0.59
2:C:904:PRO:HB2	2:C:907:ASP:HB3	1.83	0.59
3:D:1426:LYS:HD3	3:D:1429:LEU:HD22	1.85	0.59
1:G:56:VAL:O	1:G:165:ILE:HD13	2.03	0.59
2:H:45:GLN:HA	2:H:48:PHE:HD2	1.66	0.59
1:K:85:LEU:HB2	1:K:127:LEU:CD2	2.32	0.59
1:K:85:LEU:HB2	1:K:127:LEU:HD22	1.85	0.59
1:L:78:ILE:O	1:L:82:LEU:HG	2.01	0.59
1:L:89:PHE:HB3	1:L:94:LEU:HD12	1.84	0.59
2:M:15:LEU:HD22	2:M:15:LEU:N	2.16	0.59
2:M:164:PRO:CB	2:M:265:ARG:H	2.16	0.59
3:N:142:LEU:H	3:N:142:LEU:HD22	1.67	0.59
3:N:957:PRO:HG2	3:N:1007:VAL:CG2	2.27	0.59
1:B:83:LYS:O	1:B:170:VAL:HG21	2.02	0.59
2:C:630:ARG:HH21	2:C:706:GLU:HA	1.68	0.59
3:D:426:LYS:O	3:D:428:LYS:HG3	2.02	0.59
3:D:538:SER:HB2	3:D:540:LEU:CD2	2.24	0.59
3:D:617:ASN:HB2	3:D:1467:ILE:HA	1.83	0.59
3:D:1406:ARG:HD2	3:D:1412:LYS:HG2	1.84	0.59
1:F:57:TYR:HB2	1:F:164:ALA:HB2	1.84	0.59
1:F:63:HIS:NE2	2:H:801:VAL:HG23	2.18	0.59
2:H:173:ASP:HB2	2:H:185:LYS:HB3	1.84	0.59
2:H:465:GLY:O	2:H:466:PHE:C	2.41	0.59
2:H:1068:GLU:HG2	2:H:1072:LYS:HD3	1.84	0.59
3:I:166:GLN:NE2	3:I:394:LEU:HD13	2.18	0.59
1:K:75:VAL:O	1:K:79:ILE:HG23	2.02	0.59
1:L:178:ALA:HB3	1:L:198:ARG:NH1	2.18	0.59
2:M:496:ILE:N	2:M:496:ILE:HD12	2.18	0.59
2:M:754:ILE:HG23	2:M:791:ARG:HG2	1.85	0.59
2:M:992:MET:HE3	2:M:993:PHE:H	1.66	0.59
3:N:137:PRO:HG2	3:N:453:ASP:N	2.18	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:351:MET:HG3	3:N:370:ALA:HB2	1.83	0.59
3:N:1376:MET:O	3:N:1395:LEU:HD12	2.03	0.59
4:O:26:ARG:NH2	4:O:37:ASN:HB3	2.17	0.59
5:Y:59:GLU:O	5:Y:62:ILE:HG22	2.02	0.59
1:B:172:SER:OG	1:B:174:VAL:HG23	2.02	0.59
1:B:199:ILE:CG1	1:B:211:LEU:HD11	2.32	0.59
2:C:9:ILE:HG12	2:C:907:ASP:OD2	2.02	0.59
2:C:994:ILE:HD12	2:C:994:ILE:H	1.68	0.59
3:D:119:SER:N	3:D:123:LEU:HD22	2.14	0.59
3:D:358:GLY:H	3:D:385:VAL:CB	2.13	0.59
3:D:564:GLU:H	2:H:223:ASP:CB	2.09	0.59
3:D:641:GLN:O	3:D:716:PHE:HD2	1.86	0.59
3:D:690:ALA:O	3:D:694:VAL:HG23	2.02	0.59
3:D:720:LEU:H	3:D:720:LEU:HD22	1.68	0.59
3:D:850:LEU:H	3:D:850:LEU:CD1	2.12	0.59
3:D:984:THR:HG22	3:D:987:GLU:CG	2.33	0.59
2:H:251:ASP:C	2:H:253:ALA:H	2.06	0.59
2:H:275:TYR:O	2:H:279:GLU:HB3	2.03	0.59
2:H:571:LEU:HD11	2:H:701:THR:H	1.68	0.59
2:H:1013:TYR:CE2	2:H:1060:ILE:HG22	2.37	0.59
3:I:703:ASN:HD22	3:I:713:ILE:CG2	2.15	0.59
3:I:895:VAL:HG11	3:I:922:LEU:HD21	1.84	0.59
3:I:1057:VAL:HA	3:I:1069:GLU:OE2	2.03	0.59
3:I:1156:LEU:HD12	3:I:1177:ALA:HA	1.85	0.59
1:K:181:VAL:O	2:M:938:LYS:HB2	2.02	0.59
2:M:358:ARG:HG2	2:M:371:LYS:O	2.03	0.59
2:M:477:GLY:O	2:M:507:ARG:HA	2.03	0.59
2:M:569:VAL:HG13	2:M:571:LEU:HD12	1.85	0.59
3:N:785:ILE:HD13	3:N:935:LYS:CA	2.31	0.59
3:N:1485:GLN:HB2	4:O:79:LEU:HD22	1.85	0.59
1:A:102:LYS:CB	1:A:138:LEU:O	2.50	0.59
1:A:152:PRO:HB2	1:A:155:LYS:HB2	1.83	0.59
1:A:153:ALA:N	1:A:168:ASP:OD1	2.36	0.59
2:C:165:LEU:HB3	2:C:265:ARG:NH2	2.18	0.59
2:C:275:TYR:OH	2:C:489:THR:HG21	2.03	0.59
2:C:605:LYS:HB2	2:C:612:VAL:CG2	2.33	0.59
3:D:26:VAL:HG23	3:D:93:ILE:HD11	1.85	0.59
3:D:97:THR:HG22	3:D:554:LEU:HD21	1.85	0.59
3:D:486:ARG:NH1	3:D:486:ARG:HB2	2.18	0.59
3:D:873:LEU:HD22	3:D:875:THR:OG1	2.01	0.59
3:I:415:VAL:HG12	3:I:416:ALA:H	1.66	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:563:PRO:HB3	3:I:566:ILE:HD13	1.85	0.59
3:I:764:LEU:HD12	3:I:765:SER:N	2.16	0.59
1:L:80:LEU:HG	3:N:844:ALA:HB2	1.85	0.59
2:M:48:PHE:O	2:M:52:PHE:HB2	2.02	0.59
2:M:253:ALA:O	2:M:257:VAL:HG23	2.03	0.59
2:M:431:HIS:CD2	2:M:432:ARG:HG2	2.38	0.59
2:M:922:PHE:HB2	2:M:967:PHE:CD2	2.38	0.59
2:M:1092:LEU:CD1	2:M:1099:VAL:HG21	2.25	0.59
3:N:112:ILE:HD11	3:N:465:LEU:HD21	1.85	0.59
3:N:139:GLY:H	3:N:147:VAL:CG2	2.16	0.59
3:N:179:VAL:HG13	3:N:183:GLU:CB	2.33	0.59
3:N:700:VAL:CG1	3:N:718:PRO:HG2	2.32	0.59
3:N:1330:ILE:HD13	3:N:1347:TYR:CE1	2.38	0.59
5:X:68:ILE:HD13	5:X:71:ARG:HH21	1.66	0.59
5:Y:41:ASP:OD2	5:Y:48:TYR:CD1	2.56	0.59
5:Z:91:LEU:CD2	5:Z:151:VAL:HG22	2.33	0.59
1:A:62:LEU:HD12	1:A:62:LEU:N	2.18	0.58
2:C:139:GLN:HE22	2:C:414:GLY:HA3	1.67	0.58
2:C:835:VAL:HG13	2:C:836:GLY:H	1.68	0.58
3:D:162:ARG:NE	3:D:452:ILE:HG23	2.17	0.58
3:D:409:VAL:HG11	3:D:435:VAL:HG11	1.82	0.58
3:D:473:LEU:H	3:D:473:LEU:HD12	1.68	0.58
3:D:650:LEU:CD1	3:D:691:LEU:HD22	2.32	0.58
3:D:820:GLU:HG2	3:D:825:ALA:O	2.03	0.58
3:D:939:PHE:O	3:D:943:THR:HG23	2.04	0.58
3:D:1095:THR:CG2	3:D:1230:GLY:HA3	2.31	0.58
1:G:73:GLU:OE2	1:G:130:ALA:HA	2.02	0.58
2:H:1054:THR:HG21	2:H:1082:PRO:HB3	1.85	0.58
3:I:1236:LEU:HD12	3:I:1256:LEU:HD13	1.85	0.58
1:L:123:MET:C	1:L:125:PRO:HD3	2.23	0.58
2:M:15:LEU:HD21	2:M:586:ARG:HG3	1.85	0.58
2:M:679:PHE:C	2:M:681:GLY:H	2.07	0.58
3:N:486:ARG:HA	3:N:489:ARG:HG2	1.85	0.58
3:N:922:LEU:H	3:N:922:LEU:CD2	2.00	0.58
1:A:85:LEU:CD1	1:A:124:ASN:HB3	2.31	0.58
2:C:575:GLN:NE2	2:C:671:ASN:H	2.01	0.58
2:C:577:PRO:HG3	2:C:993:PHE:CE1	2.38	0.58
2:C:589:ARG:O	2:C:592:LEU:HD23	2.03	0.58
2:C:1089:VAL:HG11	2:C:1111:ILE:HD13	1.83	0.58
3:D:483:HIS:HB2	3:D:484:PRO:CD	2.27	0.58
2:H:193:LEU:N	2:H:193:LEU:HD12	2.18	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:831:ARG:HG2	2:H:831:ARG:NH1	2.16	0.58
3:I:108:VAL:CB	3:I:109:PRO:HD3	2.20	0.58
3:I:1109:GLU:CG	3:I:1201:CYS:HA	2.33	0.58
1:L:185:ARG:HG2	1:L:186:LEU:N	2.18	0.58
2:M:89:THR:O	2:M:91:GLN:HG3	2.03	0.58
2:M:455:LEU:HD22	2:M:456:ALA:O	2.03	0.58
3:N:112:ILE:CD1	3:N:115:LEU:HD13	2.33	0.58
3:N:141:ILE:HD12	3:N:448:GLU:OE2	2.02	0.58
3:N:180:LYS:HA	3:N:387:LEU:HD21	1.85	0.58
3:N:639:LEU:HD13	3:N:640:HIS:H	1.69	0.58
3:N:1463:LYS:O	3:N:1466:VAL:HB	2.02	0.58
5:X:104:VAL:HG22	5:X:119:ILE:HB	1.84	0.58
5:Z:139:SER:HB3	5:Z:148:GLU:HG3	1.85	0.58
2:H:281:LEU:HD12	2:H:306:THR:HA	1.85	0.58
2:H:469:THR:OG1	2:H:470:PRO:HD2	2.03	0.58
3:I:636:GLN:NE2	3:I:637:LEU:N	2.45	0.58
3:I:730:PRO:O	3:I:733:CYS:SG	2.59	0.58
3:I:1211:MET:HG2	3:I:1212:ALA:N	2.17	0.58
2:M:182:VAL:O	2:M:193:LEU:HD13	2.04	0.58
2:M:584:GLU:CD	2:M:584:GLU:H	2.05	0.58
3:N:205:TYR:HA	3:N:393:ILE:HG13	1.86	0.58
3:N:789:LEU:CD1	3:N:911:LEU:HD21	2.33	0.58
3:N:861:GLN:NE2	3:N:861:GLN:H	2.01	0.58
3:N:992:ILE:CG2	3:N:996:TRP:HE1	2.16	0.58
3:N:1348:LEU:O	3:N:1352:ILE:HG12	2.02	0.58
5:Y:7:LEU:O	5:Y:74:ILE:HD12	2.04	0.58
2:C:135:VAL:O	2:C:392:SER:HA	2.04	0.58
2:C:151:ASP:OD1	2:C:154:ARG:HB2	2.03	0.58
3:D:434:ARG:O	3:D:446:VAL:HG13	2.03	0.58
3:D:885:ILE:HD12	3:D:937:TYR:CE1	2.38	0.58
1:F:85:LEU:HD12	1:F:86:VAL:H	1.69	0.58
1:F:101:LEU:HD23	1:F:102:LYS:N	2.18	0.58
1:G:85:LEU:CD1	1:G:124:ASN:HB3	2.33	0.58
2:H:221:LEU:HD12	2:H:222:MET:N	2.17	0.58
3:I:420:VAL:HG11	3:I:424:GLY:O	2.04	0.58
3:I:652:LEU:HD12	3:I:653:PHE:CD1	2.39	0.58
3:I:849:ALA:O	3:I:853:VAL:HG23	2.02	0.58
2:M:334:ARG:HB3	2:M:339:LEU:HD21	1.84	0.58
2:M:496:ILE:HA	2:M:531:PHE:O	2.04	0.58
3:N:210:ARG:HD2	3:N:388:HIS:HB2	1.84	0.58
3:N:395:VAL:O	3:N:396:VAL:HG13	2.02	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1155:VAL:CG1	3:N:1177:ALA:HB1	2.34	0.58
5:Z:111:ASN:HD21	5:Z:113:LEU:HD12	1.67	0.58
1:B:13:VAL:HG12	1:B:14:ARG:H	1.69	0.58
1:B:190:THR:HG22	3:D:722:GLU:HG2	1.86	0.58
2:C:47:ALA:O	2:C:50:GLU:HB3	2.03	0.58
2:C:163:ILE:HD12	2:C:171:TRP:NE1	2.18	0.58
2:C:1008:ARG:HH12	3:D:624:ASP:HB3	1.67	0.58
3:D:139:GLY:H	3:D:147:VAL:CG2	2.16	0.58
3:D:1245:GLY:C	3:D:1246:VAL:HG22	2.24	0.58
3:D:1348:LEU:HD13	3:D:1348:LEU:N	2.19	0.58
2:H:707:ARG:HD3	2:H:826:TYR:CE2	2.38	0.58
3:I:770:LEU:HD13	3:I:1211:MET:O	2.04	0.58
2:M:195:LEU:HD23	2:M:241:LEU:HD11	1.84	0.58
2:M:861:LEU:HD22	2:M:863:ASP:OD1	2.04	0.58
2:M:1061:GLU:OE2	3:N:84:ILE:HD12	2.04	0.58
3:N:829:VAL:O	3:N:835:SER:HB2	2.04	0.58
3:N:859:ASP:O	3:N:877:PRO:HG2	2.03	0.58
3:N:907:GLU:OE1	3:N:909:ASN:N	2.34	0.58
2:C:841:ASN:HD22	2:C:992:MET:HE1	1.69	0.58
3:D:214:GLU:HA	3:D:342:PRO:HB3	1.86	0.58
3:D:720:LEU:N	3:D:720:LEU:HD22	2.19	0.58
3:D:832:ARG:HG3	3:D:833:GLU:OE2	2.03	0.58
4:E:54:LEU:HG	4:E:58:PRO:CB	2.33	0.58
1:F:56:VAL:CG2	1:F:142:VAL:HG12	2.34	0.58
1:G:162:ILE:HD12	1:G:162:ILE:N	2.18	0.58
2:H:474:VAL:HG23	2:H:478:VAL:O	2.04	0.58
3:I:119:SER:CB	3:I:123:LEU:HB2	2.34	0.58
3:I:859:ASP:HB2	3:I:862:ASP:OD1	2.03	0.58
3:I:1290:LEU:HD13	3:I:1307:LYS:HA	1.85	0.58
2:M:52:PHE:CD2	2:M:68:PHE:HB2	2.38	0.58
2:M:304:LEU:HB3	2:M:305:PRO:HD3	1.86	0.58
2:M:1083:GLU:CD	3:N:87:ARG:HH21	2.07	0.58
3:N:123:LEU:O	3:N:127:LEU:HD23	2.04	0.58
3:N:170:PRO:HA	3:N:392:SER:HB2	1.86	0.58
3:N:176:ASP:CA	3:N:389:GLU:HG2	2.34	0.58
3:N:807:ALA:HB2	3:N:832:ARG:HH11	1.68	0.58
3:N:879:ARG:HH12	3:N:905:PRO:CA	2.16	0.58
3:N:926:LYS:HA	3:N:929:ARG:HD2	1.84	0.58
3:N:1134:LEU:HD23	3:N:1134:LEU:O	2.04	0.58
3:N:1485:GLN:CG	4:O:79:LEU:HB2	2.33	0.58
5:Y:153:ALA:O	5:Y:154:ILE:HG13	2.03	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:65:PHE:HZ	2:C:830:LYS:HG3	1.67	0.58
2:C:297:GLU:HG2	2:C:298:PHE:H	1.68	0.58
2:C:304:LEU:CB	2:C:305:PRO:HD3	2.33	0.58
3:D:911:LEU:HD12	3:D:911:LEU:N	2.18	0.58
4:E:45:ARG:NH1	4:E:55:PHE:HB3	2.19	0.58
1:G:59:GLU:OE1	1:G:139:ASN:HB3	2.03	0.58
1:G:173:PRO:HB3	1:G:202:ASP:OD1	2.04	0.58
2:H:68:PHE:O	2:H:69:LEU:HD23	2.04	0.58
2:H:636:ALA:O	2:H:637:LEU:HD23	2.03	0.58
2:H:839:LEU:HA	2:H:997:LEU:CD2	2.34	0.58
3:I:1042:ARG:HH21	3:I:1045:MET:CE	2.16	0.58
2:M:721:ARG:HG2	2:M:820:ARG:NH1	2.05	0.58
3:N:625:TYR:CZ	3:N:751:LEU:HD11	2.39	0.58
3:N:785:ILE:HG23	3:N:786:ILE:N	2.19	0.58
5:X:6:LYS:O	5:X:7:LEU:HD23	2.03	0.58
1:A:64:GLU:HA	1:A:75:VAL:HG11	1.84	0.58
1:B:40:LEU:HD22	1:B:44:LEU:CD1	2.33	0.58
1:B:80:LEU:O	1:B:84:GLU:HG3	2.04	0.58
3:D:112:ILE:O	3:D:112:ILE:HD13	2.03	0.58
3:D:1026:SER:C	3:D:1028:ALA:H	2.07	0.58
1:F:36:LEU:C	1:F:39:PRO:HD2	2.24	0.58
1:F:151:VAL:H	1:F:169:ALA:HB3	1.69	0.58
1:G:161:ARG:HB3	1:G:163:ASN:OD1	2.03	0.58
2:H:393:GLN:NE2	2:H:409:ARG:NH2	2.49	0.58
2:H:431:HIS:NE2	2:H:433:THR:OG1	2.37	0.58
2:H:997:LEU:HD22	2:H:997:LEU:N	2.19	0.58
3:I:684:LYS:HD3	3:I:686:GLU:OE1	2.04	0.58
3:I:728:LEU:HD12	3:I:729:HIS:N	2.18	0.58
3:I:868:TYR:HD1	3:I:869:MET:HG2	1.68	0.58
2:M:6:PHE:CE1	2:M:909:ALA:HB2	2.38	0.58
2:M:974:LEU:HB3	2:M:987:ILE:HD13	1.85	0.58
3:N:151:GLN:CG	3:N:152:LEU:H	2.12	0.58
3:N:203:ALA:HA	3:N:395:VAL:HA	1.84	0.58
3:N:465:LEU:HD11	3:N:512:MET:HB2	1.85	0.58
3:N:1106:VAL:CG1	3:N:1107:VAL:N	2.67	0.58
3:N:1412:LYS:O	3:N:1414:PRO:HD3	2.04	0.58
5:Y:19:LEU:CD1	5:Y:62:ILE:HD12	2.34	0.58
5:Z:139:SER:OG	5:Z:146:ARG:HG3	2.04	0.58
1:A:100:LEU:HD23	1:A:101:LEU:N	2.18	0.58
1:A:102:LYS:CA	1:A:138:LEU:HG	2.33	0.58
2:C:21:ILE:H	2:C:21:ILE:HD12	1.68	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:140:ILE:HG13	2:C:412:ALA:HA	1.86	0.58
2:C:374:ASN:N	2:C:374:ASN:ND2	2.46	0.58
2:C:417:GLY:C	2:C:418:LEU:HD12	2.24	0.58
3:D:30:GLU:HB3	3:D:40:GLU:HB3	1.86	0.58
3:D:806:PHE:CE1	3:D:813:LEU:HB3	2.39	0.58
1:F:43:ILE:HG23	1:G:35:THR:HG21	1.85	0.58
1:G:48:ILE:H	1:G:48:ILE:CD1	2.05	0.58
1:G:80:LEU:HD23	1:G:81:ASN:N	2.19	0.58
2:H:309:TYR:OH	2:H:321:GLU:HB3	2.03	0.58
2:H:358:ARG:O	2:H:371:LYS:HE3	2.04	0.58
3:I:481:MET:SD	3:I:493:ARG:HB3	2.44	0.58
3:I:891:GLU:H	3:I:926:LYS:HZ2	1.51	0.58
1:K:67:THR:HG22	2:M:627:ARG:CZ	2.34	0.58
1:K:228:PRO:O	1:K:229:GLN:HB2	2.04	0.58
2:M:118:ILE:HD12	2:M:119:PRO:O	2.04	0.58
2:M:292:ARG:HD3	2:M:294:GLU:OE1	2.03	0.58
2:M:838:LYS:O	2:M:997:LEU:HD22	2.03	0.58
2:M:974:LEU:HD23	2:M:983:ILE:HD11	1.84	0.58
3:N:176:ASP:HA	3:N:389:GLU:HG2	1.86	0.58
3:N:760:ARG:HH12	4:O:59:ASN:ND2	2.02	0.58
3:N:910:SER:OG	3:N:911:LEU:HD12	2.03	0.58
3:N:1367:HIS:O	3:N:1371:VAL:HG23	2.03	0.58
5:Y:16:MET:SD	5:Y:69:LEU:HD13	2.43	0.58
5:Y:65:LEU:O	5:Y:69:LEU:HG	2.03	0.58
5:Z:45:ASN:HB3	5:Z:48:TYR:CB	2.34	0.58
5:Z:91:LEU:HD23	5:Z:151:VAL:HG22	1.86	0.58
1:A:100:LEU:HD23	1:A:101:LEU:H	1.69	0.58
2:C:55:GLU:HA	2:C:64:LEU:O	2.04	0.58
2:C:167:LYS:HD2	2:C:415:PRO:HB3	1.86	0.58
2:C:265:ARG:HB3	2:C:267:TYR:CE2	2.39	0.58
2:C:290:LEU:HD23	2:C:290:LEU:N	2.10	0.58
2:C:300:ASP:HB2	2:C:302:VAL:HG12	1.85	0.58
2:C:676:ILE:HD11	2:C:873:PRO:HA	1.86	0.58
2:C:755:LEU:HD21	2:C:792:VAL:HG22	1.86	0.58
3:D:137:PRO:HB2	3:D:138:LYS:NZ	2.19	0.58
3:D:417:PRO:HG3	3:D:431:VAL:CA	2.34	0.58
3:D:624:ASP:HB2	3:D:625:TYR:HD1	1.68	0.58
3:D:730:PRO:O	3:D:733:CYS:HB2	2.04	0.58
3:D:1310:ARG:HB3	3:D:1310:ARG:NH1	2.19	0.58
1:F:50:GLY:HA3	1:F:173:PRO:HG3	1.86	0.58
1:F:184:THR:HB	1:F:192:LEU:HB2	1.86	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:118:ILE:HD13	2:H:118:ILE:N	2.11	0.58
2:H:1012:PRO:HB2	2:H:1021:LEU:O	2.04	0.58
3:I:18:ILE:CD1	3:I:516:ALA:HB3	2.34	0.58
3:I:563:PRO:HB2	3:I:566:ILE:HB	1.86	0.58
1:K:44:LEU:HA	1:K:48:ILE:HD13	1.85	0.58
2:M:99:GLN:HA	2:M:109:LYS:O	2.03	0.58
2:M:350:ARG:HG2	2:M:377:PRO:HB3	1.84	0.58
3:N:420:VAL:HG11	3:N:424:GLY:O	2.04	0.58
3:N:1041:LEU:HB2	3:N:1059:SER:O	2.04	0.58
1:A:57:TYR:HB2	1:A:164:ALA:HB2	1.84	0.57
2:C:115:LEU:HD21	2:C:373:VAL:HG13	1.86	0.57
2:C:455:LEU:HD12	2:C:456:ALA:H	1.68	0.57
2:C:474:VAL:HG12	2:C:531:PHE:HA	1.86	0.57
2:C:477:GLY:O	2:C:508:ILE:HG13	2.04	0.57
2:C:544:THR:C	2:C:546:LEU:H	2.08	0.57
3:D:1459:LEU:HD12	3:D:1465:ASN:ND2	2.19	0.57
1:F:111:ALA:CA	1:F:129:ILE:HD11	2.33	0.57
1:G:100:LEU:HB2	1:G:115:LEU:HD21	1.86	0.57
2:H:252:LYS:HZ2	2:H:255:ALA:HB3	1.69	0.57
2:H:873:PRO:HB3	3:I:949:ILE:CD1	2.31	0.57
2:H:1088:LEU:O	2:H:1092:LEU:HG	2.04	0.57
3:I:89:ARG:HG3	3:I:89:ARG:NH1	2.18	0.57
3:I:1394:VAL:HB	3:I:1397:LYS:HG3	1.86	0.57
1:L:90:LEU:HB3	1:L:119:ASP:HB2	1.86	0.57
2:M:630:ARG:HH21	2:M:707:ARG:H	1.50	0.57
2:M:666:LEU:CD1	2:M:668:LEU:HG	2.26	0.57
2:M:987:ILE:N	2:M:987:ILE:HD12	2.18	0.57
3:N:102:ILE:HB	3:N:579:ASP:OD1	2.04	0.57
3:N:983:LEU:HD11	3:N:988:ARG:HA	1.86	0.57
3:N:1018:ASN:O	3:N:1022:VAL:HG23	2.03	0.57
3:N:1106:VAL:HG12	3:N:1107:VAL:N	2.18	0.57
1:A:35:THR:HG23	1:B:39:PRO:HA	1.86	0.57
1:B:64:GLU:HG3	1:B:64:GLU:O	2.03	0.57
1:B:106:PRO:HD3	1:B:134:GLU:HA	1.85	0.57
2:C:970:GLY:O	2:C:988:VAL:HA	2.04	0.57
2:C:1006:HIS:H	3:D:628:ARG:NH1	2.02	0.57
3:D:128:TYR:CE2	3:D:458:ALA:HA	2.39	0.57
3:D:703:ASN:N	3:D:745:MET:HE2	2.18	0.57
3:D:802:ALA:O	3:D:804:LEU:N	2.36	0.57
3:D:902:LEU:H	3:D:902:LEU:CD2	2.14	0.57
3:D:1000:THR:O	3:D:1003:VAL:HG12	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1101:VAL:HG12	3:D:1428:ALA:HB2	1.86	0.57
3:D:1256:LEU:O	3:D:1260:ILE:HD12	2.05	0.57
1:G:59:GLU:HB2	1:G:137:ARG:HH12	1.69	0.57
1:G:161:ARG:N	1:G:161:ARG:HD2	2.19	0.57
2:H:204:GLN:OE1	2:H:228:ALA:HB1	2.04	0.57
2:H:864:GLY:O	2:H:865:THR:C	2.42	0.57
2:H:1009:SER:HB2	3:I:652:LEU:HA	1.85	0.57
2:H:1073:GLY:HA3	3:I:659:LYS:HE2	1.85	0.57
3:I:111:LYS:NZ	3:I:1449:GLU:HG3	2.18	0.57
1:L:124:ASN:N	1:L:125:PRO:HD3	2.19	0.57
2:M:63:GLY:N	2:M:103:LYS:HE2	2.19	0.57
2:M:583:LEU:O	2:M:587:VAL:HG23	2.04	0.57
2:M:1006:HIS:O	3:N:627:GLY:HA2	2.04	0.57
3:N:210:ARG:HD2	3:N:388:HIS:CB	2.33	0.57
3:N:215:TYR:H	3:N:342:PRO:N	2.01	0.57
3:N:360:ARG:HA	3:N:383:GLY:O	2.04	0.57
3:N:843:PHE:CE1	3:N:864:VAL:HG11	2.39	0.57
5:Z:9:LYS:O	5:Z:12:TYR:HB3	2.04	0.57
2:C:205:GLU:CD	2:C:206:THR:H	2.07	0.57
2:C:915:LYS:HD3	2:C:918:LEU:CD2	2.34	0.57
3:D:578:VAL:O	3:D:581:LEU:HG	2.04	0.57
3:D:608:SER:O	3:D:612:GLY:HA3	2.03	0.57
3:D:704:ARG:HG3	3:D:706:PRO:HD2	1.85	0.57
3:D:1412:LYS:O	3:D:1414:PRO:HD3	2.05	0.57
1:G:185:ARG:HD2	1:G:187:GLY:N	2.19	0.57
1:G:197:LEU:HD23	1:G:197:LEU:H	1.69	0.57
2:H:44:ILE:CD1	2:H:44:ILE:H	2.17	0.57
2:H:461:VAL:HG12	2:H:462:ASP:N	2.19	0.57
3:I:470:LEU:HB2	3:I:503:LEU:CD2	2.35	0.57
3:I:829:VAL:O	3:I:831:GLY:N	2.35	0.57
4:J:9:LEU:HD13	4:J:19:LEU:HD11	1.86	0.57
1:K:56:VAL:HA	1:K:141:GLU:O	2.04	0.57
1:K:92:PRO:HA	1:K:146:ARG:HH22	1.67	0.57
2:M:690:ILE:HD11	2:M:694:LEU:HD13	1.84	0.57
2:M:1095:LEU:HG	2:M:1095:LEU:O	2.03	0.57
3:N:112:ILE:HD12	3:N:115:LEU:HD22	1.86	0.57
3:N:206:ARG:O	3:N:207:PHE:HD1	1.86	0.57
3:N:728:LEU:HD12	3:N:729:HIS:H	1.68	0.57
3:N:917:GLN:NE2	3:N:917:GLN:HA	2.19	0.57
3:N:1155:VAL:HG11	3:N:1177:ALA:HB1	1.86	0.57
3:N:1206:GLY:O	3:N:1215:VAL:HG23	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1209:LEU:HG	3:N:1210:SER:H	1.69	0.57
3:N:1211:MET:CG	3:N:1212:ALA:H	2.15	0.57
1:A:81:ASN:O	1:A:127:LEU:HD21	2.04	0.57
1:B:13:VAL:HG12	1:B:14:ARG:N	2.19	0.57
2:C:98:LEU:HD22	2:C:98:LEU:O	2.04	0.57
2:C:115:LEU:HA	2:C:375:SER:OG	2.05	0.57
3:D:644:LEU:HD23	3:D:718:PRO:HB3	1.85	0.57
3:D:695:ILE:CD1	3:D:717:GLN:HE22	2.18	0.57
3:D:1236:LEU:HD12	3:D:1256:LEU:CD2	2.34	0.57
1:F:84:GLU:HG2	1:F:127:LEU:CD1	2.34	0.57
2:H:172:ILE:O	2:H:172:ILE:HG13	2.03	0.57
2:H:182:VAL:O	2:H:193:LEU:HD13	2.05	0.57
2:H:994:ILE:HD12	2:H:994:ILE:H	1.68	0.57
3:I:165:LYS:HG2	3:I:166:GLN:N	2.19	0.57
3:I:1220:ALA:CB	3:I:1223:ILE:HD12	2.33	0.57
3:I:1233:GLY:O	3:I:1256:LEU:HD22	2.04	0.57
3:I:1472:ILE:HD13	3:I:1472:ILE:N	2.19	0.57
4:J:53:GLY:C	4:J:55:PHE:H	2.07	0.57
1:K:67:THR:HG21	2:M:609:ASN:HD21	1.68	0.57
1:K:178:ALA:HB2	2:M:864:GLY:N	2.20	0.57
2:M:265:ARG:HG2	2:M:267:TYR:CG	2.40	0.57
2:M:313:LEU:HD13	2:M:321:GLU:H	1.70	0.57
3:N:14:SER:HB3	3:N:16:GLU:OE1	2.04	0.57
3:N:996:TRP:CA	3:N:999:THR:HG22	2.30	0.57
3:N:1428:ALA:O	3:N:1431:THR:HG22	2.04	0.57
1:A:24:VAL:HG22	1:A:196:THR:HG22	1.87	0.57
1:A:101:LEU:HD13	1:A:113:ASP:O	2.05	0.57
2:C:473:ARG:HA	2:C:531:PHE:HD1	1.66	0.57
2:C:560:MET:O	2:C:564:MET:HG2	2.04	0.57
3:D:26:VAL:O	3:D:93:ILE:HD13	2.04	0.57
3:D:156:GLU:HG2	3:D:159:ARG:NH2	2.19	0.57
3:D:168:THR:HA	3:D:394:LEU:CB	2.22	0.57
3:D:1273:VAL:O	3:D:1325:LEU:HB2	2.05	0.57
1:G:35:THR:C	1:G:36:LEU:HD23	2.24	0.57
1:G:45:LEU:CA	1:G:48:ILE:HD11	2.35	0.57
2:H:367:LEU:HB3	2:H:371:LYS:CG	2.33	0.57
2:H:858:MET:HE2	2:H:859:PRO:HD2	1.84	0.57
3:I:432:TYR:HB3	3:I:450:TYR:HB2	1.86	0.57
1:L:19:GLU:HG3	1:L:201:THR:O	2.04	0.57
2:M:26:TYR:CZ	2:M:30:LEU:HD21	2.39	0.57
2:M:690:ILE:CG2	2:M:852:ILE:HG13	2.34	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:44:LEU:O	3:N:44:LEU:HD23	2.04	0.57
5:X:19:LEU:HD21	5:X:23:ARG:HH21	1.69	0.57
1:A:121:GLU:HG2	1:A:122:ILE:N	2.18	0.57
2:C:275:TYR:O	2:C:279:GLU:HB3	2.04	0.57
3:D:809:PRO:CB	3:D:812:ALA:HB2	2.22	0.57
3:D:1122:LEU:HD11	3:D:1186:VAL:CG2	2.32	0.57
2:H:162:ILE:HD11	2:H:306:THR:HG21	1.86	0.57
2:H:193:LEU:H	2:H:193:LEU:HD12	1.69	0.57
2:H:468:ARG:HG2	2:H:487:THR:HA	1.85	0.57
2:H:475:VAL:O	2:H:478:VAL:HG23	2.04	0.57
2:H:640:ARG:HG3	2:H:657:ASP:HB2	1.85	0.57
2:H:905:ILE:HG22	2:H:906:PHE:N	2.18	0.57
2:M:805:ARG:HG2	2:M:806:LEU:N	2.18	0.57
2:M:852:ILE:N	2:M:852:ILE:HD12	2.20	0.57
2:M:1003:ASP:C	2:M:1004:LYS:HD3	2.25	0.57
2:M:1014:SER:CB	2:M:1019:GLN:H	2.17	0.57
3:N:112:ILE:CD1	3:N:465:LEU:HD21	2.35	0.57
3:N:354:VAL:O	3:N:354:VAL:HG12	2.05	0.57
3:N:733:CYS:SG	3:N:738:ALA:O	2.59	0.57
3:N:1263:PHE:CE2	3:N:1371:VAL:HG11	2.40	0.57
1:A:176:ARG:NH2	2:C:865:THR:HB	2.20	0.57
2:C:547:ILE:HD12	2:C:842:ARG:O	2.04	0.57
2:C:865:THR:O	2:C:865:THR:HG23	2.04	0.57
3:D:1194:CYS:SG	3:D:1200:VAL:HG13	2.44	0.57
1:G:173:PRO:HB3	1:G:204:SER:HB3	1.86	0.57
2:H:610:ARG:HB2	2:H:622:GLU:OE2	2.05	0.57
2:H:666:LEU:HD12	2:H:667:ALA:H	1.69	0.57
2:H:861:LEU:HD21	2:H:925:TYR:CZ	2.40	0.57
2:H:1048:THR:HA	3:I:755:ALA:HB1	1.86	0.57
3:I:82:LYS:HG2	3:I:83:SER:H	1.69	0.57
3:I:1161:GLU:OE2	3:I:1164:ARG:HG3	2.05	0.57
1:K:229:GLN:CB	1:L:12:THR:HA	2.32	0.57
1:L:25:LEU:HD23	1:L:25:LEU:O	2.05	0.57
2:M:311:PHE:HA	2:M:314:THR:OG1	2.04	0.57
2:M:848:VAL:HG12	2:M:849:VAL:N	2.20	0.57
3:N:111:LYS:CE	3:N:1449:GLU:HG2	2.33	0.57
3:N:1266:ARG:O	3:N:1268:PRO:HD3	2.04	0.57
1:A:156:HIS:H	1:A:156:HIS:HD2	1.52	0.57
2:C:355:VAL:HG23	2:C:372:LEU:HG	1.86	0.57
3:D:564:GLU:HB2	2:H:223:ASP:HA	1.87	0.57
3:D:643:GLY:HA3	3:D:727:GLN:HB2	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1147:ARG:HB3	3:D:1188:VAL:CG2	2.29	0.57
3:D:1348:LEU:HD13	3:D:1348:LEU:H	1.70	0.57
1:F:176:ARG:HG3	1:F:200:TRP:CE3	2.40	0.57
1:G:13:VAL:HG12	1:G:14:ARG:H	1.69	0.57
1:G:48:ILE:HD13	1:G:172:SER:OG	2.05	0.57
2:H:217:LEU:H	2:H:217:LEU:CD2	2.13	0.57
2:H:756:VAL:O	2:H:789:SER:HB2	2.04	0.57
3:I:18:ILE:HD13	3:I:516:ALA:O	2.05	0.57
3:I:139:GLY:HA2	3:I:162:ARG:NH2	2.19	0.57
3:I:470:LEU:HD21	3:I:508:ARG:HD3	1.87	0.57
3:I:1294:VAL:O	3:I:1294:VAL:HG12	2.04	0.57
1:K:11:PHE:HB2	1:L:224:TYR:O	2.05	0.57
2:M:688:ILE:HG12	2:M:848:VAL:O	2.05	0.57
3:N:17:LYS:HA	3:N:20:SER:OG	2.04	0.57
3:N:1368:ILE:O	3:N:1372:VAL:HG12	2.04	0.57
3:N:1486:VAL:HG21	4:O:25:LYS:HB3	1.87	0.57
3:N:1493:LYS:HE2	3:N:1493:LYS:CA	2.32	0.57
4:O:9:LEU:HD22	4:O:68:LEU:HD23	1.86	0.57
5:X:29:ILE:HD12	5:X:58:ASN:HD22	1.70	0.57
1:A:31:GLY:HA2	1:A:193:ASP:OD2	2.04	0.57
1:B:159:LYS:HD3	1:B:159:LYS:N	2.19	0.57
1:B:227:ASN:HD22	1:B:227:ASN:N	2.03	0.57
2:C:858:MET:HA	2:C:858:MET:HE3	1.87	0.57
2:C:1088:LEU:HG	3:D:613:ARG:HD2	1.85	0.57
3:D:704:ARG:HB2	3:D:736:PHE:HB3	1.87	0.57
3:D:975:GLU:OE1	3:D:988:ARG:HD3	2.04	0.57
3:D:1046:GLN:HA	3:D:1052:THR:HA	1.87	0.57
3:D:1283:ILE:HG22	3:D:1284:GLU:N	2.19	0.57
3:D:1320:GLU:N	3:D:1323:GLN:NE2	2.42	0.57
3:D:1373:ARG:HD3	3:D:1374:GLN:HE22	1.70	0.57
1:F:68:ILE:HD12	1:F:68:ILE:N	2.19	0.57
2:H:64:LEU:HD21	2:H:355:VAL:HG22	1.87	0.57
2:H:196:LEU:HD13	2:H:197:LEU:N	2.20	0.57
2:H:473:ARG:HE	2:H:531:PHE:HE1	1.52	0.57
2:H:599:GLU:HB3	2:H:615:TYR:CD2	2.40	0.57
2:H:1060:ILE:O	2:H:1063:ARG:HB3	2.05	0.57
2:H:1107:ASN:ND2	3:I:2:LYS:NZ	2.53	0.57
3:I:16:GLU:HA	3:I:19:ARG:NH1	2.19	0.57
3:I:18:ILE:HG23	3:I:518:PRO:HG3	1.86	0.57
3:I:154:THR:OG1	3:I:157:GLU:HG2	2.03	0.57
3:I:817:GLU:O	3:I:820:GLU:HB3	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:1062:ARG:O	3:I:1062:ARG:HD3	2.04	0.57
2:M:697:ARG:HD2	2:M:699:PHE:CE1	2.40	0.57
2:M:726:ILE:HD13	2:M:730:SER:N	2.20	0.57
3:N:718:PRO:O	3:N:719:VAL:HG13	2.04	0.57
3:N:1175:ILE:O	3:N:1179:GLU:HG2	2.04	0.57
3:N:1330:ILE:HD13	3:N:1347:TYR:CZ	2.40	0.57
3:N:1356:TYR:HB3	3:N:1361:VAL:HB	1.85	0.57
1:B:201:THR:HG21	1:B:205:VAL:O	2.04	0.57
2:C:852:ILE:HD12	2:C:852:ILE:N	2.18	0.57
3:D:928:ALA:HA	3:D:931:LEU:HD12	1.87	0.57
1:F:177:VAL:CG2	1:F:199:ILE:HG23	2.28	0.57
2:H:205:GLU:CD	2:H:206:THR:H	2.08	0.57
2:H:265:ARG:HD3	2:H:267:TYR:CD1	2.40	0.57
2:H:576:ALA:HB1	2:H:580:MET:HE3	1.87	0.57
3:I:1148:VAL:O	3:I:1188:VAL:HG23	2.04	0.57
3:I:1149:LEU:HD23	3:I:1149:LEU:H	1.69	0.57
1:K:57:TYR:CE2	1:K:161:ARG:HD2	2.39	0.57
2:M:497:ALA:HA	2:M:515:ALA:HA	1.87	0.57
2:M:542:VAL:CG1	2:M:546:LEU:HD21	2.35	0.57
2:M:913:GLU:O	2:M:916:GLU:HB3	2.05	0.57
3:N:50:PHE:CD2	3:N:522:PRO:HD3	2.40	0.57
3:N:95:LEU:HD23	3:N:96:ALA:N	2.19	0.57
3:N:603:LEU:O	3:N:607:LEU:HG	2.05	0.57
3:N:1109:GLU:CD	3:N:1201:CYS:HA	2.25	0.57
3:N:1146:GLY:CA	3:N:1207:TYR:HB2	2.35	0.57
4:O:35:PHE:O	4:O:36:LYS:HE2	2.05	0.57
2:C:227:PHE:C	2:C:229:MET:H	2.09	0.56
2:C:710:ILE:HB	2:C:790:LEU:CD1	2.34	0.56
3:D:25:GLU:HB2	3:D:92:HIS:CE1	2.40	0.56
3:D:151:GLN:HG3	3:D:152:LEU:H	1.70	0.56
3:D:432:TYR:HB3	3:D:450:TYR:CG	2.40	0.56
3:D:484:PRO:HB3	3:D:488:ARG:CD	2.35	0.56
3:D:716:PHE:HZ	3:D:732:VAL:HG11	1.69	0.56
3:D:1236:LEU:HB2	3:D:1256:LEU:HD23	1.87	0.56
3:D:1304:LYS:HB3	3:D:1304:LYS:NZ	2.19	0.56
1:G:67:THR:HG21	1:L:159:LYS:CE	2.30	0.56
2:H:132:ALA:HB1	2:H:394:PHE:HE1	1.70	0.56
2:H:162:ILE:HB	2:H:172:ILE:CG1	2.34	0.56
3:I:795:VAL:HG13	3:I:861:GLN:O	2.04	0.56
3:I:803:GLY:O	3:I:805:GLU:HG3	2.05	0.56
3:I:1205:TYR:CZ	3:I:1366:LYS:HD3	2.39	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:267:TYR:N	2:M:267:TYR:CD2	2.71	0.56
2:M:805:ARG:HG3	2:M:823:VAL:HG23	1.87	0.56
3:N:520:LEU:CG	3:N:524:LEU:HD23	2.34	0.56
3:N:809:PRO:O	3:N:812:ALA:CB	2.52	0.56
3:N:1345:GLU:HA	3:N:1348:LEU:HD22	1.87	0.56
3:N:1465:ASN:ND2	3:N:1470:ARG:HB3	2.20	0.56
3:N:1481:VAL:HG13	4:O:18:ARG:HD3	1.87	0.56
5:X:45:ASN:O	5:X:48:TYR:N	2.38	0.56
1:B:186:LEU:O	1:B:186:LEU:HD23	2.05	0.56
2:C:286:SER:HB3	2:C:299:LYS:NZ	2.20	0.56
2:C:557:ARG:HH11	2:C:557:ARG:HG3	1.70	0.56
2:C:612:VAL:HG22	2:C:622:GLU:CG	2.35	0.56
2:C:1008:ARG:HG2	2:C:1008:ARG:HH11	1.69	0.56
3:D:643:GLY:O	3:D:644:LEU:HB2	2.04	0.56
3:D:1198:TYR:OH	3:D:1432:LYS:HE2	2.05	0.56
4:E:49:GLN:HG3	4:E:50:THR:H	1.69	0.56
1:F:9:PRO:HG3	1:F:27:PRO:O	2.06	0.56
1:F:35:THR:CG2	1:G:43:ILE:HD11	2.28	0.56
1:G:13:VAL:HG12	1:G:14:ARG:N	2.20	0.56
2:H:146:VAL:HG11	2:H:281:LEU:HD22	1.86	0.56
2:H:605:LYS:HD2	2:H:612:VAL:HG21	1.85	0.56
3:I:445:ARG:HG2	3:I:445:ARG:HH11	1.68	0.56
3:I:569:ASN:HA	3:I:572:ARG:HD2	1.86	0.56
3:I:1015:TYR:HB3	3:I:1018:ASN:HB2	1.86	0.56
2:M:21:ILE:HG22	2:M:22:GLN:NE2	2.21	0.56
2:M:1008:ARG:NH2	2:M:1011:GLY:N	2.53	0.56
3:N:15:PRO:HA	3:N:18:ILE:CD1	2.36	0.56
3:N:563:PRO:HB2	3:N:566:ILE:HG12	1.86	0.56
3:N:661:MET:HE1	3:N:677:LEU:HD11	1.87	0.56
3:N:1152:GLU:HG2	3:N:1160:LEU:O	2.06	0.56
3:N:1236:LEU:CB	3:N:1256:LEU:HB2	2.35	0.56
5:X:42:LEU:O	5:X:43:ARG:CG	2.53	0.56
5:Y:115:THR:HB	5:Y:116:PRO:CD	2.28	0.56
1:B:100:LEU:HD23	1:B:115:LEU:HD11	1.88	0.56
1:B:106:PRO:HG2	1:B:134:GLU:CD	2.25	0.56
2:C:260:LEU:O	2:C:260:LEU:HD23	2.05	0.56
2:C:271:GLU:OE1	2:C:464:LEU:HD21	2.05	0.56
2:C:825:VAL:HG13	2:C:825:VAL:O	2.04	0.56
2:C:1009:SER:HB2	3:D:652:LEU:HA	1.86	0.56
2:C:1046:ALA:HA	3:D:1472:ILE:HD11	1.86	0.56
3:D:53:ILE:HB	3:D:86:ARG:NH1	2.20	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:106:LYS:HB3	3:D:586:ARG:HD2	1.87	0.56
3:D:131:LYS:HE3	2:H:219:GLN:NE2	2.21	0.56
3:D:136:ASP:HB3	3:D:137:PRO:HD3	1.87	0.56
3:D:141:ILE:HG22	3:D:142:LEU:N	2.21	0.56
3:D:834:THR:HA	3:D:838:ARG:NH1	2.19	0.56
3:D:887:ALA:HB1	3:D:893:GLU:HG3	1.87	0.56
3:D:1007:VAL:HG12	3:D:1011:PHE:CE2	2.40	0.56
3:D:1353:GLN:HB3	3:D:1357:ARG:NE	2.19	0.56
3:D:1365:ASP:O	3:D:1369:GLU:HG3	2.06	0.56
3:D:1389:LEU:HD23	3:D:1390:LEU:HG	1.88	0.56
2:H:302:VAL:HG22	2:H:303:PHE:CD1	2.40	0.56
2:H:517:ARG:HG2	2:H:518:LYS:HG3	1.85	0.56
2:H:693:GLU:HB2	2:H:855:VAL:HB	1.87	0.56
2:H:1077:PRO:O	2:H:1079:PRO:HD3	2.06	0.56
3:I:105:VAL:HG22	3:I:112:ILE:HG21	1.86	0.56
3:I:141:ILE:HD12	3:I:448:GLU:CG	2.34	0.56
3:I:199:LEU:HD23	3:I:200:ASP:N	2.20	0.56
3:I:702:LEU:HD23	3:I:716:PHE:CD1	2.41	0.56
3:I:811:GLU:O	3:I:815:ALA:N	2.37	0.56
3:I:1465:ASN:ND2	3:I:1470:ARG:HB3	2.14	0.56
1:K:52:ALA:CB	1:K:170:VAL:HG22	2.35	0.56
1:L:206:THR:CG2	1:L:208:LEU:HB3	2.36	0.56
2:M:15:LEU:HD23	2:M:586:ARG:HE	1.70	0.56
2:M:97:ARG:HG3	2:M:112:GLU:OE1	2.04	0.56
2:M:332:ARG:HB3	2:M:332:ARG:NH1	2.17	0.56
2:M:557:ARG:HH11	2:M:557:ARG:HG3	1.70	0.56
2:M:601:GLY:HA2	2:M:616:GLU:CD	2.25	0.56
2:M:860:HIS:HE1	2:M:977:GLY:HA2	1.70	0.56
3:N:112:ILE:O	3:N:115:LEU:HB3	2.05	0.56
3:N:543:LEU:HD21	3:N:600:LEU:HB2	1.88	0.56
3:N:804:LEU:HD11	3:N:830:ALA:C	2.26	0.56
3:N:901:GLN:HB2	3:N:904:VAL:HG22	1.88	0.56
5:Z:106:SER:HA	5:Z:121:ASP:HB2	1.85	0.56
1:A:140:MET:CE	1:A:142:VAL:HG13	2.34	0.56
1:B:65:PHE:CE1	3:D:813:LEU:HD13	2.40	0.56
2:C:145:GLY:HA3	2:C:276:LYS:HG2	1.88	0.56
2:C:402:SER:HA	2:C:566:THR:HG23	1.87	0.56
2:C:666:LEU:HD12	2:C:667:ALA:N	2.19	0.56
2:C:806:LEU:HB2	2:C:822:VAL:HG23	1.86	0.56
3:D:98:PRO:O	3:D:458:ALA:HB3	2.06	0.56
3:D:366:LYS:HE2	3:D:369:ALA:CB	2.36	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:139:GLN:NE2	2:H:414:GLY:HA3	2.20	0.56
2:H:627:ARG:O	2:H:638:ASP:HA	2.05	0.56
3:I:701:LEU:C	3:I:702:LEU:HD22	2.26	0.56
3:I:770:LEU:HD22	3:I:1211:MET:O	2.05	0.56
1:K:189:ARG:HG3	1:K:189:ARG:NH1	2.20	0.56
1:L:186:LEU:HB2	1:L:192:LEU:HD11	1.87	0.56
2:M:949:LYS:HD3	3:N:796:ARG:HH21	1.70	0.56
2:M:966:LEU:HD21	2:M:986:PRO:HG2	1.88	0.56
2:M:1029:GLY:HA3	3:N:623:VAL:O	2.06	0.56
3:N:481:MET:O	3:N:489:ARG:HB2	2.05	0.56
3:N:1272:ALA:HA	3:N:1326:THR:CB	2.33	0.56
5:Z:123:SER:O	5:Z:127:LYS:N	2.38	0.56
1:A:11:PHE:HB2	1:B:224:TYR:O	2.05	0.56
1:A:86:VAL:HG13	1:A:86:VAL:O	2.05	0.56
2:C:676:ILE:HD11	2:C:873:PRO:CA	2.36	0.56
2:C:858:MET:HE2	2:C:859:PRO:HD2	1.86	0.56
2:C:860:HIS:HE1	2:C:977:GLY:HA2	1.71	0.56
3:D:10:ILE:HG12	3:D:1451:ALA:HA	1.87	0.56
3:D:31:THR:HG23	3:D:545:ARG:HD3	1.86	0.56
3:D:486:ARG:HA	3:D:489:ARG:HD3	1.88	0.56
3:D:1235:GLN:O	3:D:1236:LEU:HD23	2.06	0.56
3:D:1452:ILE:H	3:D:1452:ILE:HD12	1.70	0.56
1:G:205:VAL:CG2	1:G:209:GLU:HB2	2.35	0.56
2:H:267:TYR:CD2	2:H:267:TYR:N	2.72	0.56
2:H:313:LEU:HD12	2:H:314:THR:N	2.19	0.56
2:H:471:TYR:N	2:H:483:VAL:HG13	2.21	0.56
2:H:496:ILE:H	2:H:496:ILE:HD12	1.69	0.56
2:H:1052:MET:HA	2:H:1052:MET:CE	2.35	0.56
3:I:766:ALA:HB1	4:J:2:ALA:HB2	1.87	0.56
3:I:1128:VAL:HG21	5:Y:23:ARG:NH2	2.21	0.56
2:M:276:LYS:H	2:M:276:LYS:HD2	1.71	0.56
2:M:477:GLY:O	2:M:507:ARG:HG3	2.04	0.56
2:M:575:GLN:OE1	2:M:670:GLN:HB3	2.05	0.56
2:M:601:GLY:HA2	2:M:616:GLU:OE1	2.06	0.56
3:N:111:LYS:NZ	3:N:1449:GLU:HG2	2.21	0.56
3:N:756:GLN:O	3:N:760:ARG:HG2	2.06	0.56
3:N:1330:ILE:HD12	3:N:1330:ILE:N	2.19	0.56
5:X:128:ALA:HB2	5:X:140:LEU:HD21	1.88	0.56
1:A:89:PHE:HD2	1:A:146:ARG:HD2	1.70	0.56
1:B:14:ARG:HH22	1:B:24:VAL:HG23	1.69	0.56
1:B:28:LEU:HB2	1:B:193:ASP:HB2	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:45:LEU:HD23	1:B:174:VAL:HB	1.88	0.56
2:C:72:ARG:C	2:C:73:LEU:HD12	2.25	0.56
2:C:282:GLY:O	2:C:283:ILE:HD13	2.06	0.56
2:C:508:ILE:HG22	2:C:509:ALA:N	2.20	0.56
2:C:542:VAL:O	2:C:546:LEU:HG	2.06	0.56
2:C:839:LEU:HD21	2:C:849:VAL:CG2	2.35	0.56
2:C:994:ILE:HD12	2:C:994:ILE:N	2.21	0.56
3:D:735:ALA:HB2	3:D:778:LEU:HD21	1.87	0.56
3:D:815:ALA:HA	3:D:818:ARG:CD	2.36	0.56
1:F:195:LEU:HD12	1:F:196:THR:N	2.21	0.56
1:G:179:PHE:O	1:G:180:GLN:HG2	2.05	0.56
2:H:108:ILE:HD13	2:H:108:ILE:N	2.20	0.56
2:H:344:PHE:CD2	2:H:378:LEU:HD11	2.41	0.56
2:H:486:MET:CE	2:H:491:GLU:HA	2.36	0.56
3:I:417:PRO:HG3	3:I:430:ASP:C	2.26	0.56
3:I:879:ARG:HH22	3:I:904:VAL:C	2.07	0.56
3:N:12:LEU:H	3:N:12:LEU:CD2	2.05	0.56
3:N:108:VAL:HB	3:N:109:PRO:CD	2.20	0.56
3:N:109:PRO:HB3	3:N:494:LYS:HZ3	1.71	0.56
3:N:704:ARG:HH11	3:N:705:ALA:H	1.53	0.56
3:N:851:LEU:N	3:N:851:LEU:HD23	2.20	0.56
1:A:180:GLN:HB3	1:A:182:GLU:OE2	2.05	0.56
1:B:105:GLY:O	1:B:107:LYS:HG2	2.04	0.56
2:C:6:PHE:CE1	2:C:909:ALA:HB2	2.40	0.56
2:C:89:THR:HG21	2:C:383:ARG:HH22	1.70	0.56
2:C:200:LEU:HD13	2:C:300:ASP:OD2	2.05	0.56
2:C:224:GLU:HB3	2:C:228:ALA:CB	2.36	0.56
2:C:860:HIS:CE1	2:C:977:GLY:HA2	2.41	0.56
2:C:906:PHE:CE1	3:D:1067:VAL:HA	2.41	0.56
3:D:14:SER:O	3:D:18:ILE:HG12	2.06	0.56
3:D:117:ASP:HB2	3:D:495:ARG:HH12	1.71	0.56
3:D:122:GLU:O	3:D:126:VAL:HG23	2.05	0.56
3:D:1281:VAL:HG23	3:D:1317:ASP:O	2.05	0.56
1:G:26:GLU:HB2	1:G:27:PRO:HA	1.88	0.56
1:G:30:ARG:HH11	1:G:30:ARG:CB	2.18	0.56
1:G:212:ASN:O	1:G:215:VAL:HG22	2.06	0.56
2:H:174:LEU:HD22	2:H:193:LEU:HD21	1.87	0.56
3:I:770:LEU:HD22	3:I:1209:LEU:O	2.05	0.56
3:I:1359:GLN:HA	3:I:1359:GLN:HE21	1.71	0.56
1:K:229:GLN:HB3	1:L:12:THR:CA	2.33	0.56
1:L:52:ALA:O	1:L:144:VAL:HG13	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:243:ARG:HB2	2:M:244:PRO:HD3	1.87	0.56
2:M:756:VAL:HG13	2:M:790:LEU:HD22	1.86	0.56
3:N:657:LEU:O	3:N:661:MET:HG2	2.05	0.56
3:N:696:HIS:CE1	4:O:54:LEU:HD11	2.41	0.56
3:N:857:ILE:HG22	3:N:858:VAL:HG13	1.88	0.56
3:N:1472:ILE:HD13	3:N:1472:ILE:N	2.05	0.56
5:Y:91:LEU:HB3	5:Y:149:PHE:HB3	1.88	0.56
1:A:183:ASP:HA	2:C:938:LYS:NZ	2.21	0.56
1:B:213:GLN:O	1:B:217:ILE:HG12	2.05	0.56
2:C:257:VAL:HG12	2:C:263:ASP:OD1	2.06	0.56
2:C:267:TYR:HB2	2:C:272:ALA:HB1	1.87	0.56
2:C:437:ARG:HH22	2:C:488:ALA:N	2.04	0.56
2:C:576:ALA:HB3	2:C:900:ARG:HH11	1.68	0.56
2:C:835:VAL:HG13	2:C:836:GLY:N	2.21	0.56
2:C:873:PRO:O	2:C:876:VAL:HG23	2.06	0.56
3:D:702:LEU:CD2	3:D:728:LEU:HD13	2.35	0.56
3:D:1155:VAL:C	3:D:1157:GLY:H	2.10	0.56
1:F:62:LEU:HD12	1:F:62:LEU:N	2.21	0.56
3:I:23:TYR:O	3:I:49:ILE:HA	2.06	0.56
3:I:563:PRO:CB	3:I:566:ILE:HD13	2.35	0.56
3:I:785:ILE:HG13	3:I:939:PHE:CE2	2.41	0.56
3:I:1381:VAL:HG22	3:I:1398:TRP:CZ2	2.39	0.56
2:M:15:LEU:H	2:M:15:LEU:HD13	1.71	0.56
2:M:806:LEU:O	2:M:821:GLU:HB2	2.06	0.56
2:M:926:PHE:HA	2:M:929:ARG:HG3	1.87	0.56
2:M:1050:GLN:HA	2:M:1053:LEU:HG	1.87	0.56
3:N:514:LEU:HD12	3:N:514:LEU:O	2.05	0.56
3:N:548:ILE:HD12	3:N:548:ILE:H	1.70	0.56
3:N:1093:TYR:CE2	3:N:1097:LYS:HD2	2.41	0.56
3:N:1286:THR:O	3:N:1287:GLU:CB	2.54	0.56
3:N:1345:GLU:O	3:N:1349:VAL:HG22	2.05	0.56
3:N:1434:TRP:NE1	3:N:1435:LEU:HD13	2.21	0.56
5:Y:142:THR:HG22	5:Y:144:LYS:HG2	1.87	0.56
2:C:332:ARG:HH21	2:C:338:GLU:CD	2.09	0.56
2:C:673:LEU:CD2	2:C:868:ASP:H	2.14	0.56
2:C:678:PRO:HG3	2:C:873:PRO:HD2	1.88	0.56
2:C:751:PRO:HG3	2:C:796:GLU:HA	1.86	0.56
2:C:917:LEU:O	2:C:920:GLN:HB3	2.06	0.56
3:D:414:ARG:HB3	3:D:450:TYR:HE1	1.71	0.56
3:D:650:LEU:HD22	3:D:688:TRP:CH2	2.41	0.56
3:D:814:ALA:O	3:D:818:ARG:HG3	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:161:ARG:NH1	1:F:161:ARG:HB2	2.21	0.56
1:F:222:LEU:HD21	1:G:218:LEU:CD2	2.36	0.56
1:G:106:PRO:HG3	1:G:134:GLU:N	2.20	0.56
1:G:117:VAL:HG12	1:G:118:ALA:N	2.18	0.56
2:H:211:LEU:HD23	2:H:218:VAL:HG23	1.88	0.56
2:H:281:LEU:CD1	2:H:306:THR:HA	2.36	0.56
2:H:317:VAL:HG13	2:H:320:HIS:ND1	2.20	0.56
3:I:365:ASP:O	3:I:379:ALA:HB2	2.05	0.56
3:I:1344:VAL:HG12	3:I:1348:LEU:HD21	1.87	0.56
3:I:1379:VAL:HG22	3:I:1398:TRP:NE1	2.21	0.56
1:L:111:ALA:O	1:L:114:PHE:HD1	1.89	0.56
2:M:325:ILE:H	2:M:325:ILE:HD12	1.70	0.56
2:M:607:ASP:HB2	2:M:610:ARG:HG2	1.88	0.56
3:N:39:PRO:HG2	3:N:45:PHE:O	2.06	0.56
3:N:849:ALA:O	3:N:853:VAL:HG23	2.06	0.56
3:N:974:ILE:HG13	5:Z:113:LEU:HD21	1.88	0.56
2:C:139:GLN:OE1	2:C:334:ARG:HD3	2.06	0.56
2:C:267:TYR:CD2	2:C:267:TYR:N	2.72	0.56
2:C:334:ARG:HD2	2:C:418:LEU:CD2	2.35	0.56
2:C:442:GLU:HG2	2:C:454:SER:CB	2.35	0.56
3:D:494:LYS:HA	3:D:497:GLU:OE2	2.06	0.56
3:D:859:ASP:O	3:D:877:PRO:HG2	2.06	0.56
3:D:1121:PRO:HB2	3:D:1135:ARG:HH12	1.71	0.56
3:D:1219:GLU:O	3:D:1221:VAL:HG23	2.05	0.56
3:D:1293:PHE:HD2	3:D:1300:SER:HB2	1.71	0.56
3:D:1424:VAL:HG13	3:D:1425:THR:H	1.71	0.56
1:F:32:PHE:O	1:F:36:LEU:HG	2.06	0.56
1:F:79:ILE:HG13	1:F:80:LEU:H	1.70	0.56
2:H:194:VAL:HG11	2:H:224:GLU:HB2	1.87	0.56
2:H:283:ILE:HD13	2:H:283:ILE:N	2.21	0.56
2:H:440:PRO:HA	3:I:1078:ARG:HH21	1.70	0.56
2:H:676:ILE:CG2	2:H:988:VAL:HG13	2.31	0.56
2:H:1052:MET:HE1	2:H:1056:LYS:CE	2.36	0.56
3:I:516:ALA:O	3:I:518:PRO:HD3	2.05	0.56
3:I:540:LEU:H	3:I:540:LEU:CD1	2.13	0.56
3:I:813:LEU:C	3:I:813:LEU:HD12	2.25	0.56
3:I:879:ARG:NH2	3:I:904:VAL:C	2.59	0.56
3:I:966:GLU:O	3:I:970:LYS:HB2	2.05	0.56
3:I:1166:LEU:H	3:I:1166:LEU:CD2	2.18	0.56
3:I:1209:LEU:CG	3:I:1210:SER:N	2.69	0.56
3:I:1236:LEU:CD1	3:I:1256:LEU:HD13	2.36	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:1353:GLN:HB3	3:I:1357:ARG:NE	2.21	0.56
1:K:229:GLN:HG2	1:L:12:THR:HG22	1.88	0.56
2:M:139:GLN:HA	2:M:411:SER:O	2.06	0.56
2:M:157:ARG:HG3	2:M:314:THR:HG22	1.88	0.56
2:M:833:LEU:CD1	2:M:996:LYS:HD2	2.32	0.56
5:Z:38:GLU:C	5:Z:40:GLY:N	2.58	0.56
5:Z:73:VAL:HG12	5:Z:74:ILE:N	2.18	0.56
1:A:32:PHE:CE2	1:B:43:ILE:HD12	2.42	0.55
1:A:36:LEU:HD22	1:A:40:LEU:HD11	1.88	0.55
2:C:251:ASP:C	2:C:253:ALA:H	2.08	0.55
2:C:922:PHE:HB2	2:C:967:PHE:CD2	2.41	0.55
3:D:7:LYS:HE2	3:D:1458:GLU:OE2	2.06	0.55
3:D:786:ILE:O	3:D:787:LEU:C	2.44	0.55
3:D:1207:TYR:HE2	3:D:1214:PRO:HD3	1.71	0.55
1:F:100:LEU:CD1	1:F:102:LYS:HZ1	2.10	0.55
1:G:206:THR:HG22	1:G:209:GLU:OE1	2.05	0.55
2:H:398:THR:CA	2:H:633:GLN:HG3	2.35	0.55
2:H:482:GLU:HG2	2:H:483:VAL:N	2.20	0.55
2:H:500:ASN:N	2:H:500:ASN:ND2	2.53	0.55
2:H:878:SER:HA	3:I:1034:GLN:HE22	1.71	0.55
3:I:109:PRO:O	3:I:111:LYS:HD2	2.06	0.55
3:I:709:HIS:H	3:I:709:HIS:CD2	2.22	0.55
3:I:895:VAL:HG13	3:I:921:ARG:NH1	2.21	0.55
3:I:1021:TYR:CZ	3:I:1025:GLN:HG3	2.41	0.55
3:I:1283:ILE:HG22	3:I:1284:GLU:N	2.21	0.55
1:L:102:LYS:HG3	1:L:139:ASN:HB2	1.87	0.55
2:M:159:ILE:HD12	2:M:159:ILE:O	2.06	0.55
2:M:205:GLU:CD	2:M:206:THR:H	2.09	0.55
2:M:456:ALA:HB3	2:M:459:ALA:HB3	1.88	0.55
2:M:721:ARG:HA	2:M:820:ARG:NH2	2.21	0.55
2:M:756:VAL:HG22	2:M:790:LEU:HD22	1.88	0.55
2:M:840:ALA:CB	2:M:846:LYS:HA	2.33	0.55
2:M:850:ALA:HA	3:N:632:VAL:CG1	2.35	0.55
3:N:142:LEU:O	3:N:143:ASN:HB3	2.06	0.55
3:N:465:LEU:HD13	3:N:509:PRO:O	2.06	0.55
3:N:787:LEU:HG	3:N:942:SER:OG	2.06	0.55
3:N:1496:GLU:CA	3:N:1499:ARG:HH21	2.19	0.55
2:C:205:GLU:CG	2:C:206:THR:N	2.69	0.55
2:C:238:LEU:O	2:C:241:LEU:HB2	2.06	0.55
2:C:969:GLN:HE21	2:C:971:LYS:HE3	1.71	0.55
1:F:74:ASP:CG	1:F:77:GLU:HG3	2.26	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:128:HIS:CE1	1:F:131:THR:HG23	2.40	0.55
2:H:119:PRO:HG2	2:H:386:PHE:CD2	2.41	0.55
2:H:154:ARG:HH22	2:H:178:PRO:CD	2.19	0.55
2:H:706:GLU:HB3	2:H:708:TYR:CE1	2.41	0.55
3:I:150:ARG:CZ	3:I:468:LEU:HD11	2.36	0.55
1:K:32:PHE:CZ	1:L:43:ILE:HD12	2.41	0.55
1:K:175:ARG:HB3	1:K:200:TRP:HB2	1.88	0.55
2:M:890:LEU:HD22	2:M:901:TYR:CD1	2.42	0.55
3:N:116:LEU:O	3:N:116:LEU:HD22	2.06	0.55
3:N:137:PRO:HD2	3:N:453:ASP:O	2.06	0.55
3:N:834:THR:HA	3:N:838:ARG:NH1	2.21	0.55
3:N:1095:THR:HG23	3:N:1230:GLY:HA3	1.88	0.55
4:O:35:PHE:C	4:O:36:LYS:HG2	2.27	0.55
5:X:92:GLU:HG3	5:X:98:GLU:O	2.06	0.55
2:C:10:ARG:NH1	2:C:10:ARG:HA	2.20	0.55
2:C:328:LEU:HA	2:C:331:ARG:HB2	1.87	0.55
2:C:598:GLU:O	2:C:651:LYS:HG3	2.06	0.55
3:D:470:LEU:HD23	3:D:470:LEU:H	1.71	0.55
3:D:1495:ILE:HG23	4:E:84:ARG:NH1	2.21	0.55
1:F:24:VAL:HG22	1:F:196:THR:HG22	1.87	0.55
1:G:85:LEU:HA	1:G:124:ASN:ND2	2.14	0.55
2:H:909:ALA:HB1	2:H:914:ILE:HD11	1.89	0.55
1:K:80:LEU:HD23	1:K:81:ASN:N	2.20	0.55
2:M:424:GLY:O	2:M:428:ARG:HG3	2.06	0.55
2:M:557:ARG:HA	2:M:560:MET:HG3	1.88	0.55
3:N:46:ASP:OD2	3:N:48:ARG:HB3	2.06	0.55
3:N:143:ASN:HB2	3:N:161:LEU:HD13	1.88	0.55
3:N:401:TYR:C	3:N:443:VAL:HG23	2.26	0.55
3:N:844:ALA:HB1	3:N:867:ARG:NH2	2.16	0.55
3:N:1360:GLY:C	5:Z:37:LEU:HD12	2.27	0.55
4:O:41:GLU:HA	4:O:45:ARG:CD	2.36	0.55
5:Z:139:SER:OG	5:Z:140:LEU:N	2.39	0.55
1:A:212:ASN:N	1:A:212:ASN:ND2	2.54	0.55
1:B:90:LEU:CB	1:B:119:ASP:HB3	2.35	0.55
1:B:159:LYS:O	1:B:159:LYS:HG2	2.07	0.55
2:C:224:GLU:HB3	2:C:228:ALA:HB2	1.89	0.55
2:C:376:ARG:HB3	2:C:377:PRO:CD	2.30	0.55
2:C:679:PHE:HB2	2:C:683:ASN:ND2	2.19	0.55
2:C:684:PHE:CG	2:C:685:GLU:N	2.74	0.55
2:C:739:GLU:HG2	2:C:740:GLU:H	1.69	0.55
3:D:107:ASP:O	3:D:108:VAL:C	2.44	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:127:LEU:HD21	3:D:461:ILE:HD11	1.88	0.55
3:D:478:LEU:HA	3:D:481:MET:HG3	1.87	0.55
3:D:521:PRO:C	3:D:525:ARG:HH12	2.10	0.55
3:D:709:HIS:H	3:D:709:HIS:CD2	2.23	0.55
3:D:769:LEU:O	3:D:778:LEU:HB2	2.07	0.55
3:D:1118:ILE:HG12	3:D:1190:SER:HB3	1.88	0.55
3:D:1277:ILE:HD12	3:D:1277:ILE:H	1.70	0.55
3:D:1422:MET:HE2	3:D:1426:LYS:HB3	1.88	0.55
1:F:172:SER:O	1:F:174:VAL:N	2.34	0.55
2:H:69:LEU:HG	2:H:98:LEU:HA	1.88	0.55
2:H:115:LEU:CA	2:H:375:SER:HB2	2.36	0.55
2:H:333:ILE:H	2:H:465:GLY:CA	2.15	0.55
2:H:472:ARG:NH1	2:H:481:ASP:HA	2.21	0.55
3:I:189:GLN:HE22	3:I:191:LEU:HD23	1.70	0.55
3:I:649:ALA:O	3:I:653:PHE:HB2	2.06	0.55
3:I:1098:LEU:CD2	3:I:1229:ILE:HB	2.37	0.55
1:K:42:ARG:NH1	1:L:34:VAL:HB	2.19	0.55
1:L:184:THR:HG23	1:L:192:LEU:HB2	1.86	0.55
2:M:44:ILE:CD1	2:M:44:ILE:H	2.19	0.55
2:M:239:PHE:CZ	2:M:252:LYS:HA	2.40	0.55
2:M:408:ARG:HH21	2:M:455:LEU:HD11	1.71	0.55
2:M:750:LYS:HA	2:M:750:LYS:HE3	1.87	0.55
2:M:756:VAL:O	2:M:789:SER:HB3	2.07	0.55
3:N:376:GLU:O	3:N:378:ILE:HG13	2.07	0.55
3:N:690:ALA:O	3:N:693:GLU:HB3	2.06	0.55
3:N:1189:ARG:HG3	3:N:1189:ARG:NH1	2.20	0.55
2:C:205:GLU:CG	2:C:206:THR:H	2.19	0.55
2:C:270:GLY:CA	2:C:274:ARG:HD3	2.21	0.55
3:D:407:VAL:HG21	3:D:437:VAL:CG1	2.37	0.55
3:D:974:ILE:N	3:D:974:ILE:HD12	2.22	0.55
2:H:89:THR:HA	2:H:129:ILE:O	2.05	0.55
3:I:783:ARG:HD2	3:I:783:ARG:N	2.22	0.55
3:I:1104:GLU:CD	3:I:1104:GLU:H	2.10	0.55
1:L:112:ARG:HD2	1:L:125:PRO:HB3	1.88	0.55
2:M:177:GLU:OE2	2:M:179:ASN:HB2	2.06	0.55
2:M:654:LEU:HD23	2:M:654:LEU:H	1.71	0.55
3:N:695:ILE:HD11	3:N:717:GLN:NE2	2.21	0.55
1:B:48:ILE:HG22	1:B:172:SER:HA	1.89	0.55
2:C:149:THR:O	2:C:159:ILE:HG13	2.07	0.55
2:C:647:GLN:O	2:C:649:VAL:HG13	2.05	0.55
2:C:905:ILE:HD12	2:C:905:ILE:H	1.71	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1081:VAL:HG13	2:C:1085:PHE:HB3	1.87	0.55
2:H:227:PHE:C	2:H:229:MET:H	2.10	0.55
2:H:551:GLU:HG3	2:H:552:HIS:CD2	2.42	0.55
2:H:735:ARG:CZ	2:H:735:ARG:HB2	2.34	0.55
3:I:671:LYS:HB3	3:I:675:ARG:HH21	1.72	0.55
3:I:1473:PRO:O	3:I:1478:SER:HA	2.06	0.55
1:K:224:TYR:CE1	1:L:9:PRO:HD2	2.41	0.55
1:L:44:LEU:O	1:L:45:LEU:HD23	2.06	0.55
2:M:292:ARG:CG	2:M:299:LYS:HG2	2.37	0.55
2:M:376:ARG:CB	2:M:377:PRO:HD3	2.36	0.55
2:M:676:ILE:CG2	2:M:988:VAL:HG13	2.34	0.55
2:M:1067:TYR:O	2:M:1071:ILE:HG12	2.06	0.55
3:N:215:TYR:OH	3:N:380:GLU:HB2	2.06	0.55
3:N:365:ASP:H	3:N:379:ALA:CB	2.18	0.55
3:N:637:LEU:CD2	3:N:642:CYS:HA	2.37	0.55
3:N:812:ALA:HA	3:N:816:HIS:ND1	2.21	0.55
3:N:814:ALA:HA	3:N:817:GLU:OE1	2.07	0.55
1:A:12:THR:OG1	1:A:24:VAL:HB	2.06	0.55
1:A:44:LEU:O	1:A:44:LEU:HD23	2.07	0.55
1:B:165:ILE:HD13	1:B:165:ILE:N	2.21	0.55
2:C:144:PRO:HB3	2:C:163:ILE:O	2.07	0.55
2:C:805:ARG:HG3	2:C:823:VAL:HG22	1.89	0.55
3:D:15:PRO:HA	3:D:18:ILE:CG1	2.36	0.55
3:D:1258:ARG:O	3:D:1262:LEU:HD13	2.06	0.55
4:E:83:ASP:C	4:E:85:LEU:H	2.10	0.55
1:F:109:VAL:O	1:F:129:ILE:HG13	2.05	0.55
1:F:156:HIS:H	1:F:156:HIS:CD2	2.24	0.55
1:F:218:LEU:O	1:F:222:LEU:HD13	2.06	0.55
1:G:206:THR:CG2	1:G:209:GLU:HG3	2.37	0.55
2:H:196:LEU:O	2:H:196:LEU:HD22	2.05	0.55
2:H:332:ARG:HG2	2:H:465:GLY:HA3	1.89	0.55
2:H:367:LEU:CB	2:H:371:LYS:HG2	2.34	0.55
2:H:758:ARG:HH21	2:H:788:THR:HG22	1.71	0.55
2:H:902:ILE:HD12	2:H:902:ILE:N	2.21	0.55
3:I:761:ILE:HG22	3:I:762:GLN:HG2	1.89	0.55
1:K:66:SER:O	1:K:75:VAL:HG23	2.06	0.55
1:L:9:PRO:HG3	1:L:27:PRO:O	2.07	0.55
2:M:54:ILE:HG22	2:M:66:LEU:O	2.07	0.55
2:M:292:ARG:HD2	2:M:299:LYS:HE2	1.89	0.55
2:M:759:THR:O	2:M:760:SER:HB2	2.06	0.55
2:M:946:ARG:HD3	2:M:984:GLU:HB2	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:14:SER:HB2	3:N:17:LYS:HE3	1.89	0.55
3:N:361:VAL:HG12	3:N:383:GLY:H	1.72	0.55
3:N:1207:TYR:CE2	3:N:1213:ARG:HA	2.42	0.55
3:N:1253:THR:HG23	3:N:1269:LYS:HB3	1.87	0.55
3:N:1421:LEU:C	3:N:1421:LEU:HD12	2.27	0.55
4:O:51:LEU:O	4:O:53:GLY:N	2.39	0.55
5:X:128:ALA:HB1	5:X:138:LEU:CD1	2.36	0.55
5:Z:26:LEU:HD13	5:Z:58:ASN:ND2	2.16	0.55
1:A:102:LYS:HA	1:A:138:LEU:CD1	2.37	0.55
1:A:215:VAL:HG11	1:B:225:PHE:HD1	1.72	0.55
1:B:173:PRO:HB3	1:B:202:ASP:OD1	2.07	0.55
2:C:339:LEU:HD13	2:C:391:LEU:HD11	1.89	0.55
2:C:351:LEU:HD22	2:C:377:PRO:HB2	1.88	0.55
2:C:368:THR:CB	2:C:369:PRO:HD3	2.32	0.55
2:C:840:ALA:HB2	2:C:846:LYS:HA	1.89	0.55
2:C:918:LEU:CD1	2:C:968:LEU:HA	2.26	0.55
3:D:87:ARG:CB	3:D:523:ASP:HB2	2.26	0.55
3:D:841:TYR:HB2	3:D:864:VAL:CG1	2.36	0.55
3:D:890:VAL:HB	3:D:922:LEU:HD11	1.87	0.55
3:D:1485:GLN:HE21	4:E:79:LEU:N	2.05	0.55
1:G:7:LYS:O	1:G:9:PRO:HD3	2.07	0.55
1:G:175:ARG:HB2	1:G:200:TRP:CB	2.37	0.55
2:H:577:PRO:CA	2:H:671:ASN:HD21	2.20	0.55
2:H:612:VAL:HG22	2:H:622:GLU:HB2	1.88	0.55
2:H:673:LEU:HD22	2:H:674:VAL:H	1.70	0.55
3:I:992:ILE:O	3:I:995:LEU:HB3	2.07	0.55
3:N:187:LYS:HA	3:N:199:LEU:O	2.06	0.55
3:N:205:TYR:CE1	3:N:208:PRO:HD3	2.41	0.55
3:N:464:LEU:HD13	3:N:465:LEU:N	2.21	0.55
3:N:819:GLY:O	3:N:824:ASN:HB2	2.07	0.55
3:N:996:TRP:O	3:N:999:THR:HG22	2.05	0.55
1:A:62:LEU:HD12	1:A:62:LEU:H	1.71	0.55
1:B:62:LEU:HD22	1:B:63:HIS:N	2.22	0.55
2:C:205:GLU:HA	2:C:209:ARG:HH11	1.72	0.55
2:C:673:LEU:HD23	2:C:674:VAL:N	2.22	0.55
2:C:1055:LEU:HD11	2:C:1079:PRO:HD3	1.87	0.55
3:D:1394:VAL:HB	3:D:1397:LYS:CG	2.33	0.55
2:H:73:LEU:HD22	2:H:94:LEU:CB	2.33	0.55
2:H:195:LEU:HG	2:H:238:LEU:HG	1.88	0.55
2:H:343:GLN:HE21	2:H:343:GLN:HA	1.72	0.55
2:H:524:VAL:CG1	2:H:525:SER:N	2.70	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:710:ILE:HB	2:H:790:LEU:HD22	1.87	0.55
3:I:433:GLY:HA3	3:I:447:VAL:O	2.07	0.55
3:I:1106:VAL:HG12	3:I:1107:VAL:N	2.21	0.55
3:I:1313:VAL:HG11	3:I:1325:LEU:CD1	2.37	0.55
3:I:1462:LEU:O	3:I:1466:VAL:HG23	2.07	0.55
1:K:109:VAL:HB	1:K:130:ALA:H	1.72	0.55
2:M:840:ALA:HB2	2:M:846:LYS:CA	2.33	0.55
2:M:904:PRO:HD2	2:M:908:GLY:HA2	1.88	0.55
3:N:465:LEU:CD1	3:N:512:MET:HB2	2.36	0.55
3:N:1462:LEU:HD22	3:N:1472:ILE:CG2	2.36	0.55
4:O:37:ASN:N	4:O:37:ASN:ND2	2.54	0.55
1:A:79:ILE:HD12	1:A:83:LYS:NZ	2.22	0.55
1:B:95:GLN:HE21	1:B:95:GLN:H	1.54	0.55
2:C:358:ARG:HH22	2:C:373:VAL:C	2.10	0.55
2:C:468:ARG:HB3	2:C:485:TYR:HB3	1.89	0.55
2:C:595:LEU:HD13	2:C:595:LEU:N	2.21	0.55
2:C:950:LEU:HD11	3:D:1017:PHE:HB3	1.87	0.55
3:D:116:LEU:HB2	3:D:118:LEU:HG	1.88	0.55
3:D:1104:GLU:C	3:D:1105:ILE:HD12	2.28	0.55
1:F:12:THR:HG22	1:G:229:GLN:NE2	2.21	0.55
1:F:101:LEU:HD21	1:F:113:ASP:HB3	1.89	0.55
2:H:724:ARG:HG2	2:H:737:LEU:HD22	1.88	0.55
3:I:624:ASP:HB3	3:I:625:TYR:CD1	2.41	0.55
3:I:650:LEU:CD1	3:I:691:LEU:HD22	2.37	0.55
3:I:1213:ARG:NH2	4:J:10:PHE:HB3	2.22	0.55
3:I:1379:VAL:HA	3:I:1420:LEU:H	1.72	0.55
4:J:36:LYS:C	4:J:37:ASN:HD22	2.11	0.55
1:K:184:THR:OG1	1:K:192:LEU:HB2	2.07	0.55
2:M:300:ASP:C	2:M:302:VAL:H	2.09	0.55
2:M:400:PRO:HB3	2:M:593:ALA:HB2	1.89	0.55
2:M:408:ARG:NE	2:M:455:LEU:HD11	2.22	0.55
3:N:783:ARG:NH2	5:Z:41:ASP:OD2	2.40	0.55
5:Y:153:ALA:C	5:Y:154:ILE:HG13	2.27	0.55
1:A:20:TYR:HD2	1:A:21:GLY:H	1.54	0.54
1:A:124:ASN:OD1	1:A:127:LEU:HB2	2.07	0.54
2:C:165:LEU:HG	2:C:166:PRO:HA	1.88	0.54
2:C:463:GLU:HB2	2:C:464:LEU:HD23	1.88	0.54
2:C:473:ARG:HG2	2:C:473:ARG:HH11	1.71	0.54
3:D:189:GLN:O	3:D:196:VAL:HG13	2.07	0.54
3:D:971:LEU:HD22	3:D:996:TRP:HZ2	1.73	0.54
3:D:984:THR:HG23	3:D:986:ARG:N	2.22	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1018:ASN:O	3:D:1022:VAL:HG23	2.06	0.54
3:D:1128:VAL:O	3:D:1129:THR:HG22	2.06	0.54
2:H:64:LEU:CD2	2:H:356:ARG:HA	2.36	0.54
2:H:368:THR:OG1	2:H:369:PRO:HD3	2.07	0.54
2:H:477:GLY:O	2:H:507:ARG:HD2	2.06	0.54
2:H:477:GLY:O	2:H:508:ILE:HG13	2.08	0.54
2:H:674:VAL:HG21	2:H:871:LEU:HD23	1.89	0.54
3:I:624:ASP:HB3	3:I:625:TYR:HD1	1.72	0.54
3:I:1495:ILE:CD1	4:J:88:GLU:HG3	2.31	0.54
2:M:15:LEU:HD23	2:M:586:ARG:NE	2.22	0.54
2:M:31:GLN:HG3	2:M:31:GLN:O	2.07	0.54
2:M:498:GLN:HE21	2:M:498:GLN:HA	1.71	0.54
2:M:858:MET:HE3	2:M:858:MET:HA	1.88	0.54
2:M:1088:LEU:O	2:M:1092:LEU:HD12	2.07	0.54
3:N:209:ARG:HH11	3:N:209:ARG:CG	2.18	0.54
3:N:452:ILE:HG12	3:N:453:ASP:N	2.22	0.54
3:N:907:GLU:HG2	3:N:1027:GLY:N	2.22	0.54
5:X:107:PRO:HD3	5:X:121:ASP:CB	2.36	0.54
1:B:143:ARG:NH2	1:B:158:ILE:HG21	2.22	0.54
2:C:177:GLU:OE1	2:C:179:ASN:HB3	2.07	0.54
2:C:906:PHE:HE1	3:D:1067:VAL:HA	1.70	0.54
2:C:909:ALA:CB	2:C:914:ILE:HD11	2.34	0.54
3:D:367:ILE:CD1	3:D:377:VAL:HG12	2.37	0.54
3:D:702:LEU:O	3:D:713:ILE:HG23	2.07	0.54
3:D:1114:THR:HB	3:D:1195:GLN:HB3	1.89	0.54
3:D:1201:CYS:SG	3:D:1202:GLN:N	2.79	0.54
3:D:1377:LYS:HZ3	3:D:1394:VAL:HG11	1.72	0.54
1:F:10:VAL:HG12	1:F:12:THR:HG23	1.88	0.54
2:H:165:LEU:CB	2:H:265:ARG:HE	2.20	0.54
2:H:874:LEU:HD13	3:I:783:ARG:CB	2.31	0.54
3:I:84:ILE:CG2	3:I:87:ARG:HH21	2.20	0.54
3:I:520:LEU:HD11	3:I:524:LEU:HD22	1.89	0.54
3:I:832:ARG:HB3	3:I:833:GLU:OE1	2.07	0.54
3:I:916:TYR:CZ	3:I:920:LEU:HD11	2.42	0.54
3:I:1289:LYS:CE	3:I:1306:PRO:HG3	2.36	0.54
2:M:64:LEU:HD21	2:M:355:VAL:HG22	1.89	0.54
2:M:80:GLN:HA	2:M:90:TYR:CE2	2.41	0.54
2:M:625:LEU:HA	2:M:639:GLN:OE1	2.07	0.54
2:M:862:PRO:HG2	2:M:973:VAL:HB	1.88	0.54
3:N:600:LEU:HD12	3:N:600:LEU:N	2.19	0.54
3:N:1045:MET:CE	3:N:1073:SER:HA	2.37	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1326:THR:HG22	3:N:1327:ARG:N	2.22	0.54
5:Y:107:PRO:HD3	5:Y:121:ASP:HB2	1.89	0.54
1:A:173:PRO:O	1:A:201:THR:HA	2.06	0.54
2:C:304:LEU:HD21	2:C:308:ARG:HH21	1.73	0.54
2:C:1039:ALA:HB1	3:D:710:ARG:HA	1.90	0.54
3:D:984:THR:HG22	3:D:987:GLU:HG3	1.89	0.54
3:D:1122:LEU:O	3:D:1134:LEU:HD12	2.07	0.54
3:D:1166:LEU:HD23	3:D:1166:LEU:N	2.21	0.54
1:G:25:LEU:HB3	1:G:195:LEU:HD12	1.90	0.54
2:H:107:LEU:HD13	2:H:108:ILE:N	2.22	0.54
2:H:164:PRO:CB	2:H:265:ARG:H	2.21	0.54
2:H:700:TYR:HD2	2:H:996:LYS:HG3	1.71	0.54
2:H:926:PHE:CD1	2:H:929:ARG:HG3	2.42	0.54
3:I:25:GLU:HG3	3:I:92:HIS:O	2.07	0.54
3:I:206:ARG:HA	3:I:206:ARG:NE	2.22	0.54
3:I:677:LEU:HA	3:I:680:GLN:HG3	1.89	0.54
3:I:703:ASN:ND2	3:I:713:ILE:HG23	2.19	0.54
3:I:1211:MET:SD	3:I:1213:ARG:HG2	2.46	0.54
1:K:156:HIS:HD2	1:K:157:GLY:N	2.05	0.54
2:M:80:GLN:HA	2:M:90:TYR:HE2	1.72	0.54
2:M:395:LYS:HE2	2:M:403:SER:HB2	1.90	0.54
2:M:569:VAL:O	2:M:571:LEU:HD12	2.06	0.54
2:M:979:THR:HG23	2:M:981:GLU:H	1.71	0.54
5:X:11:GLY:HA3	5:X:109:GLU:OE1	2.07	0.54
5:X:45:ASN:C	5:X:47:GLY:N	2.57	0.54
5:Y:19:LEU:HD11	5:Y:62:ILE:HD11	1.89	0.54
5:Y:94:PRO:HD3	5:Y:148:GLU:O	2.07	0.54
5:Z:38:GLU:C	5:Z:40:GLY:H	2.10	0.54
2:C:328:LEU:N	2:C:328:LEU:CD1	2.71	0.54
2:C:673:LEU:HD13	2:C:868:ASP:OD1	2.07	0.54
2:C:1086:ARG:HB3	2:C:1086:ARG:NH1	2.23	0.54
3:D:101:HIS:ND1	3:D:103:TRP:HB2	2.21	0.54
3:D:520:LEU:HD11	3:D:524:LEU:HD22	1.89	0.54
3:D:646:LYS:HG3	3:D:647:ARG:N	2.23	0.54
3:D:782:SER:H	3:D:785:ILE:HD13	1.71	0.54
3:D:1132:LEU:HD12	3:D:1132:LEU:N	2.22	0.54
3:D:1265:ALA:HB1	3:D:1333:HIS:CE1	2.41	0.54
3:D:1401:GLU:CD	3:D:1415:VAL:HG21	2.28	0.54
1:F:59:GLU:HG3	1:F:139:ASN:CB	2.36	0.54
2:H:52:PHE:HB3	2:H:53:PRO:HD3	1.89	0.54
2:H:97:ARG:O	2:H:98:LEU:HD13	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:487:THR:HG22	2:H:489:THR:H	1.73	0.54
2:H:598:GLU:HB2	2:H:615:TYR:OH	2.07	0.54
2:H:853:LEU:CD1	2:H:854:PRO:HD2	2.37	0.54
3:I:587:ARG:HG2	3:I:587:ARG:HH11	1.71	0.54
3:I:809:PRO:O	3:I:812:ALA:CB	2.55	0.54
3:I:949:ILE:HG22	3:I:949:ILE:O	2.07	0.54
3:I:1321:ALA:O	3:I:1339:LYS:HD3	2.07	0.54
2:M:148:PHE:CE1	2:M:309:TYR:HB3	2.42	0.54
2:M:546:LEU:HD12	2:M:565:GLN:OE1	2.06	0.54
3:N:850:LEU:H	3:N:850:LEU:HD12	1.72	0.54
3:N:886:VAL:O	3:N:890:VAL:HG22	2.08	0.54
3:N:922:LEU:HG	3:N:923:GLY:H	1.72	0.54
3:N:1108:ARG:HH21	3:N:1198:TYR:HB3	1.72	0.54
3:N:1424:VAL:HG13	3:N:1425:THR:N	2.22	0.54
3:N:1472:ILE:H	3:N:1472:ILE:CD1	1.96	0.54
1:A:73:GLU:HG2	1:A:77:GLU:OE1	2.08	0.54
1:B:20:TYR:O	1:B:207:PRO:HG2	2.07	0.54
1:B:51:THR:CB	1:B:87:VAL:HG22	2.37	0.54
1:B:58:ILE:HG13	1:B:140:MET:CB	2.32	0.54
2:C:113:VAL:CG1	2:C:373:VAL:HG11	2.38	0.54
2:C:559:LEU:C	2:C:559:LEU:HD23	2.28	0.54
2:C:580:MET:O	2:C:902:ILE:HA	2.08	0.54
2:C:1073:GLY:HA3	3:D:659:LYS:CE	2.37	0.54
3:D:567:ILE:HG23	3:D:571:LYS:NZ	2.21	0.54
3:D:642:CYS:SG	3:D:716:PHE:HB2	2.48	0.54
3:D:642:CYS:SG	3:D:716:PHE:CB	2.96	0.54
3:D:800:LYS:HZ3	3:D:830:ALA:HB3	1.73	0.54
1:F:58:ILE:HD12	1:F:140:MET:HB3	1.90	0.54
1:G:185:ARG:CD	1:G:187:GLY:H	2.20	0.54
2:H:452:ILE:HD12	2:H:452:ILE:N	2.23	0.54
2:H:575:GLN:HB2	2:H:670:GLN:HA	1.89	0.54
2:H:576:ALA:HB1	2:H:580:MET:CE	2.37	0.54
2:H:658:GLY:H	2:H:661:SER:HB2	1.72	0.54
2:H:704:HIS:C	2:H:705:ILE:HD12	2.27	0.54
2:H:897:LEU:HB3	2:H:899:GLN:NE2	2.21	0.54
3:I:433:GLY:CA	3:I:449:SER:H	2.20	0.54
3:I:681:ARG:H	3:I:681:ARG:CD	2.20	0.54
3:I:762:GLN:NE2	4:J:20:THR:OG1	2.40	0.54
3:I:871:LYS:H	3:I:871:LYS:HD2	1.72	0.54
4:J:58:PRO:HG2	4:J:63:TRP:HE1	1.73	0.54
2:M:141:HIS:HB3	2:M:418:LEU:CB	2.38	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:205:GLU:HA	2:M:209:ARG:CZ	2.38	0.54
3:N:358:GLY:CA	3:N:385:VAL:HB	2.38	0.54
3:N:493:ARG:CZ	3:N:1390:LEU:HD23	2.37	0.54
3:N:1422:MET:CE	3:N:1426:LYS:HG2	2.34	0.54
3:N:1442:ASN:O	3:N:1446:VAL:HG23	2.07	0.54
5:Z:3:ARG:O	5:Z:4:GLU:HG3	2.07	0.54
5:Z:7:LEU:HD11	5:Z:108:ALA:HB3	1.89	0.54
5:Z:92:GLU:CD	5:Z:99:ARG:HH22	2.11	0.54
1:B:165:ILE:HG12	1:B:165:ILE:O	2.07	0.54
1:B:211:LEU:O	1:B:214:ALA:HB3	2.08	0.54
2:C:98:LEU:H	2:C:98:LEU:HD13	1.73	0.54
2:C:610:ARG:HA	2:C:625:LEU:HG	1.90	0.54
2:C:808:ARG:NH2	2:C:820:ARG:HE	2.01	0.54
2:C:1012:PRO:HD3	2:C:1026:GLN:CD	2.28	0.54
3:D:589:ALA:O	3:D:591:VAL:HG13	2.07	0.54
3:D:970:LYS:HG2	3:D:995:LEU:HD13	1.89	0.54
3:D:1120:VAL:HG22	3:D:1186:VAL:O	2.08	0.54
1:G:40:LEU:O	1:G:44:LEU:HB2	2.07	0.54
1:G:185:ARG:HD2	1:G:187:GLY:H	1.72	0.54
2:H:282:GLY:C	2:H:283:ILE:HD13	2.28	0.54
2:H:524:VAL:HG12	2:H:525:SER:N	2.21	0.54
2:H:578:VAL:HA	2:H:900:ARG:HG2	1.90	0.54
3:I:617:ASN:HB2	3:I:1467:ILE:HA	1.90	0.54
1:L:85:LEU:HB2	1:L:127:LEU:CD2	2.38	0.54
2:M:15:LEU:N	2:M:15:LEU:HD13	2.23	0.54
2:M:274:ARG:NH1	2:M:285:LEU:HB3	2.22	0.54
2:M:971:LYS:HG2	2:M:988:VAL:N	2.22	0.54
2:M:1013:TYR:CE2	2:M:1060:ILE:HD11	2.42	0.54
3:N:522:PRO:O	3:N:525:ARG:HD3	2.07	0.54
3:N:563:PRO:HG2	3:N:566:ILE:HB	1.90	0.54
3:N:690:ALA:O	3:N:694:VAL:HG23	2.07	0.54
3:N:1093:TYR:CZ	3:N:1097:LYS:HD2	2.43	0.54
3:N:1147:ARG:HH12	3:N:1190:SER:HB2	1.73	0.54
5:Y:41:ASP:OD2	5:Y:43:ARG:O	2.25	0.54
1:A:38:ASN:O	1:A:42:ARG:HG3	2.07	0.54
2:C:177:GLU:OE2	2:C:179:ASN:HB3	2.08	0.54
2:C:374:ASN:HD22	2:C:374:ASN:H	1.53	0.54
3:D:357:GLU:HA	3:D:385:VAL:HG11	1.89	0.54
3:D:700:VAL:HG12	3:D:749:VAL:HG12	1.89	0.54
3:D:1488:ASP:HB3	4:E:26:ARG:HH22	1.70	0.54
2:H:754:ILE:HG13	2:H:791:ARG:CG	2.37	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:162:ARG:HD2	3:I:452:ILE:CD1	2.31	0.54
3:I:616:GLN:O	3:I:618:LEU:N	2.40	0.54
3:I:637:LEU:HD11	3:I:641:GLN:HB2	1.88	0.54
3:I:649:ALA:HA	3:I:652:LEU:HG	1.89	0.54
3:I:911:LEU:O	3:I:914:LEU:N	2.40	0.54
3:I:1000:THR:O	3:I:1003:VAL:CG1	2.56	0.54
3:I:1378:TYR:CE2	3:I:1394:VAL:HG22	2.42	0.54
3:I:1485:GLN:CB	4:J:79:LEU:HB2	2.37	0.54
1:L:176:ARG:O	1:L:200:TRP:HE3	1.90	0.54
2:M:136:ILE:HG22	2:M:391:LEU:HD22	1.90	0.54
2:M:199:VAL:HG22	2:M:234:ALA:CB	2.38	0.54
2:M:203:ASP:O	2:M:207:LEU:HB2	2.07	0.54
2:M:269:LEU:HD12	2:M:288:ARG:HG3	1.89	0.54
2:M:854:PRO:HB2	2:M:856:GLU:OE2	2.07	0.54
2:M:1013:TYR:CZ	2:M:1060:ILE:HD11	2.43	0.54
3:N:589:ALA:O	3:N:591:VAL:HG13	2.08	0.54
3:N:728:LEU:HD11	3:N:732:VAL:HG21	1.89	0.54
3:N:966:GLU:O	3:N:970:LYS:HB2	2.08	0.54
1:A:79:ILE:HD12	1:A:83:LYS:HZ1	1.72	0.54
1:A:215:VAL:O	1:A:218:LEU:HB3	2.08	0.54
1:B:100:LEU:N	1:B:100:LEU:CD2	2.69	0.54
1:B:199:ILE:CD1	1:B:211:LEU:HD11	2.38	0.54
2:C:205:GLU:HG2	2:C:206:THR:N	2.22	0.54
2:C:1103:ASP:HB3	2:C:1107:ASN:OD1	2.08	0.54
3:D:119:SER:OG	3:D:123:LEU:HD22	2.08	0.54
3:D:162:ARG:CD	3:D:452:ILE:HG12	2.38	0.54
3:D:493:ARG:HG3	3:D:494:LYS:N	2.23	0.54
3:D:948:THR:O	3:D:949:ILE:HD12	2.08	0.54
3:D:1003:VAL:O	3:D:1006:ALA:HB3	2.08	0.54
3:D:1197:ARG:HB3	3:D:1396:GLU:HG3	1.90	0.54
1:F:66:SER:O	1:F:75:VAL:HG23	2.07	0.54
1:G:60:ASP:OD2	1:G:137:ARG:NH1	2.41	0.54
1:G:74:ASP:O	1:G:78:ILE:HD12	2.08	0.54
2:H:31:GLN:HB3	2:H:71:TYR:OH	2.07	0.54
2:H:860:HIS:HA	2:H:866:PRO:HA	1.88	0.54
2:H:953:VAL:O	2:H:955:PRO:HD3	2.08	0.54
3:I:908:LYS:HB2	3:I:1027:GLY:CA	2.36	0.54
3:I:1277:ILE:HD13	3:I:1301:LYS:HB2	1.90	0.54
3:I:1277:ILE:HG12	3:I:1299:PHE:CE1	2.42	0.54
2:M:64:LEU:HB2	2:M:359:MET:HG3	1.90	0.54
2:M:334:ARG:HH12	2:M:415:PRO:HG2	1.72	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:1016:ILE:HG12	2:M:1017:THR:H	1.73	0.54
3:N:18:ILE:HD13	3:N:516:ALA:O	2.08	0.54
3:N:922:LEU:HD23	3:N:922:LEU:N	2.03	0.54
3:N:1403:LEU:O	3:N:1407:LEU:HB2	2.07	0.54
2:C:437:ARG:HH12	2:C:488:ALA:HA	1.72	0.54
2:C:902:ILE:N	2:C:902:ILE:HD12	2.22	0.54
3:D:119:SER:OG	3:D:123:LEU:HD13	2.08	0.54
3:D:161:LEU:HD11	3:D:397:LYS:NZ	2.23	0.54
3:D:181:ASP:OD1	3:D:205:TYR:HD2	1.90	0.54
3:D:980:MET:HA	5:X:142:THR:HG23	1.90	0.54
3:D:1333:HIS:CE1	3:D:1421:LEU:HD11	2.42	0.54
3:D:1381:VAL:HG22	3:D:1398:TRP:CH2	2.43	0.54
1:F:54:THR:CG2	1:F:158:ILE:HG13	2.18	0.54
1:G:45:LEU:HD11	1:G:177:VAL:HG22	1.89	0.54
1:G:165:ILE:HD13	1:G:165:ILE:H	1.71	0.54
2:H:199:VAL:HG23	2:H:234:ALA:CB	2.38	0.54
2:H:243:ARG:HB2	2:H:244:PRO:HD3	1.89	0.54
2:H:328:LEU:HD22	2:H:433:THR:HG22	1.88	0.54
3:I:162:ARG:NH1	3:I:452:ILE:HG23	2.23	0.54
3:I:720:LEU:H	3:I:720:LEU:CD1	2.14	0.54
3:I:811:GLU:HG2	3:I:815:ALA:CB	2.38	0.54
2:M:134:ARG:HB3	2:M:393:GLN:O	2.08	0.54
2:M:168:ARG:O	2:M:263:ASP:HA	2.08	0.54
5:Z:99:ARG:HG2	5:Z:99:ARG:NH1	2.21	0.54
1:A:10:VAL:HG12	1:A:12:THR:HG23	1.88	0.54
2:C:1008:ARG:HG2	2:C:1008:ARG:NH1	2.23	0.54
2:C:1013:TYR:OH	2:C:1063:ARG:HG3	2.08	0.54
3:D:133:ILE:HG12	3:D:456:MET:HB3	1.90	0.54
3:D:800:LYS:NZ	3:D:804:LEU:CD1	2.71	0.54
4:E:80:VAL:HG13	4:E:81:PRO:HD2	1.89	0.54
1:F:35:THR:HG23	1:G:42:ARG:HB2	1.90	0.54
2:H:165:LEU:CG	2:H:166:PRO:HA	2.30	0.54
2:H:409:ARG:HA	2:H:454:SER:HA	1.90	0.54
2:H:498:GLN:OE1	3:I:1067:VAL:HB	2.08	0.54
2:H:806:LEU:CD1	2:H:813:VAL:HG21	2.38	0.54
2:H:953:VAL:CG2	2:H:966:LEU:HD22	2.38	0.54
3:I:795:VAL:HG11	3:I:863:VAL:HG13	1.89	0.54
2:M:52:PHE:O	2:M:54:ILE:N	2.41	0.54
2:M:140:ILE:HD12	2:M:331:ARG:HE	1.73	0.54
2:M:199:VAL:CG1	2:M:235:LEU:HG	2.38	0.54
2:M:432:ARG:NH1	3:N:1048:PRO:HD2	2.23	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:1059:ASP:OD2	2:M:1083:GLU:HG2	2.08	0.54
3:N:52:PRO:HD2	3:N:86:ARG:NE	2.23	0.54
3:N:701:LEU:O	3:N:747:VAL:HA	2.08	0.54
1:A:9:PRO:HD2	1:B:224:TYR:CE1	2.43	0.53
1:A:45:LEU:HG	1:A:174:VAL:HB	1.91	0.53
1:B:19:GLU:O	1:B:200:TRP:HA	2.08	0.53
2:C:54:ILE:HG13	2:C:356:ARG:HH21	1.72	0.53
3:D:1209:LEU:C	3:D:1211:MET:N	2.62	0.53
4:E:23:VAL:HG12	4:E:61:VAL:HG12	1.89	0.53
2:H:107:LEU:CD1	2:H:109:LYS:H	2.21	0.53
2:H:284:ARG:HG3	2:H:285:LEU:N	2.23	0.53
2:H:744:ARG:HG2	2:H:747:ALA:HB2	1.88	0.53
2:H:760:SER:OG	2:H:786:LYS:HB3	2.08	0.53
3:I:348:GLN:HB3	3:I:349:PRO:HD2	1.89	0.53
3:I:730:PRO:HA	3:I:733:CYS:SG	2.48	0.53
4:J:41:GLU:CD	4:J:42:PRO:HD3	2.28	0.53
1:K:68:ILE:HD13	1:K:68:ILE:N	2.23	0.53
1:K:184:THR:HG22	1:K:185:ARG:N	2.23	0.53
2:M:755:LEU:HB2	2:M:790:LEU:HD21	1.90	0.53
3:N:99:ALA:HB3	3:N:514:LEU:HG	1.91	0.53
3:N:712:GLY:C	3:N:713:ILE:HG13	2.28	0.53
3:N:715:ALA:HB3	3:N:764:LEU:HA	1.90	0.53
3:N:1098:LEU:HD23	3:N:1226:ALA:HA	1.90	0.53
3:N:1108:ARG:HG3	3:N:1108:ARG:NH1	2.23	0.53
5:Y:41:ASP:OD2	5:Y:48:TYR:CG	2.62	0.53
1:A:101:LEU:HD12	1:A:102:LYS:H	1.73	0.53
1:A:140:MET:SD	1:A:140:MET:N	2.81	0.53
1:B:70:GLY:HA2	1:B:133:GLU:HG2	1.91	0.53
1:B:218:LEU:O	1:B:222:LEU:HG	2.08	0.53
2:C:136:ILE:O	2:C:136:ILE:HG22	2.09	0.53
2:C:724:ARG:HB3	2:C:734:LEU:HD11	1.89	0.53
2:C:911:GLU:HB3	2:C:912:PRO:HD3	1.90	0.53
3:D:102:ILE:CD1	3:D:586:ARG:NH1	2.69	0.53
3:D:433:GLY:HA3	3:D:449:SER:H	1.74	0.53
3:D:453:ASP:O	3:D:454:ALA:HB2	2.09	0.53
3:D:977:ALA:CB	3:D:983:LEU:HD21	2.38	0.53
3:D:1019:PRO:O	3:D:1020:LEU:C	2.44	0.53
3:D:1065:LEU:HD23	3:D:1066:THR:O	2.07	0.53
1:F:44:LEU:O	1:F:174:VAL:HG21	2.09	0.53
2:H:18:LEU:HD13	2:H:590:ASP:OD1	2.09	0.53
2:H:94:LEU:O	2:H:114:PHE:HB2	2.07	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:265:ARG:HG2	2:H:267:TYR:CG	2.43	0.53
2:H:300:ASP:C	2:H:302:VAL:H	2.12	0.53
2:H:672:VAL:HG22	2:H:994:ILE:CD1	2.38	0.53
4:J:41:GLU:CD	4:J:41:GLU:H	2.11	0.53
4:J:85:LEU:HD23	4:J:86:GLN:N	2.22	0.53
1:K:32:PHE:CE2	1:L:43:ILE:HD12	2.43	0.53
1:K:85:LEU:HD13	1:K:127:LEU:HD22	1.89	0.53
1:K:199:ILE:HD11	1:K:207:PRO:HB3	1.91	0.53
2:M:369:PRO:O	2:M:373:VAL:HG23	2.08	0.53
2:M:468:ARG:HD3	2:M:485:TYR:O	2.07	0.53
2:M:564:MET:SD	2:M:846:LYS:HE2	2.48	0.53
2:M:854:PRO:HB2	2:M:856:GLU:CD	2.29	0.53
2:M:887:GLU:OE1	2:M:992:MET:HA	2.07	0.53
3:N:111:LYS:HG3	3:N:1452:ILE:HD11	1.91	0.53
3:N:527:MET:HA	3:N:537:THR:OG1	2.09	0.53
3:N:907:GLU:O	3:N:910:SER:N	2.42	0.53
3:N:1353:GLN:HB3	3:N:1357:ARG:NE	2.23	0.53
3:N:1359:GLN:HE22	5:Z:52:ARG:HH21	1.56	0.53
5:X:37:LEU:HD21	5:X:48:TYR:CE2	2.39	0.53
2:C:71:TYR:H	2:C:71:TYR:HD2	1.57	0.53
2:C:107:LEU:HD23	2:C:109:LYS:H	1.74	0.53
2:C:473:ARG:HG2	2:C:473:ARG:NH1	2.23	0.53
2:C:498:GLN:NE2	3:D:1067:VAL:HG21	2.24	0.53
2:C:758:ARG:HB2	2:C:788:THR:C	2.28	0.53
2:C:939:ARG:HG3	2:C:975:TYR:HE2	1.73	0.53
2:C:1111:ILE:HB	2:C:1112:PHE:CD1	2.42	0.53
3:D:119:SER:HB2	3:D:123:LEU:CB	2.39	0.53
3:D:982:PHE:HA	5:X:125:MET:SD	2.48	0.53
3:D:1492:LEU:HD12	3:D:1493:LYS:HZ2	1.73	0.53
1:F:58:ILE:CG1	1:F:140:MET:HB3	2.37	0.53
2:H:221:LEU:C	2:H:223:ASP:H	2.11	0.53
2:H:480:THR:HG22	2:H:482:GLU:H	1.72	0.53
3:I:565:ILE:O	3:I:569:ASN:HB2	2.08	0.53
3:I:780:LYS:HZ3	5:Y:38:GLU:CD	2.11	0.53
3:I:792:ILE:HD12	3:I:941:PHE:CE1	2.44	0.53
4:J:47:LYS:HE3	4:J:55:PHE:HE2	1.73	0.53
1:K:78:ILE:HG12	1:K:130:ALA:HB2	1.91	0.53
2:M:194:VAL:HG11	2:M:224:GLU:HB2	1.89	0.53
2:M:522:VAL:HG12	2:M:523:ILE:N	2.23	0.53
2:M:673:LEU:O	2:M:868:ASP:HB2	2.08	0.53
2:M:929:ARG:HG3	2:M:929:ARG:HH11	1.74	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:1006:HIS:CE1	2:M:1027:PHE:HB3	2.43	0.53
2:M:1008:ARG:O	3:N:625:TYR:HA	2.08	0.53
2:M:1076:VAL:HG21	3:N:752:SER:CA	2.36	0.53
3:N:135:LEU:HD12	3:N:136:ASP:N	2.22	0.53
3:N:654:LYS:O	3:N:658:LEU:HG	2.07	0.53
3:N:908:LYS:HB3	3:N:1027:GLY:HA3	1.90	0.53
5:Z:129:LEU:CD2	5:Z:138:LEU:HD11	2.38	0.53
2:C:149:THR:HG23	2:C:159:ILE:HD11	1.90	0.53
2:C:448:ASN:HA	2:C:451:LEU:CD1	2.36	0.53
3:D:95:LEU:HD21	3:D:574:LEU:HD11	1.90	0.53
3:D:838:ARG:HA	3:D:864:VAL:HA	1.90	0.53
3:D:957:PRO:CG	3:D:1007:VAL:HG13	2.37	0.53
3:D:1149:LEU:CD2	3:D:1166:LEU:HD22	2.39	0.53
2:H:148:PHE:CZ	2:H:309:TYR:HB3	2.42	0.53
2:H:523:ILE:C	2:H:523:ILE:HD13	2.29	0.53
2:H:627:ARG:C	2:H:628:PHE:HD2	2.12	0.53
2:H:666:LEU:HD11	2:H:668:LEU:HG	1.90	0.53
2:H:1032:PHE:O	2:H:1036:GLU:CD	2.46	0.53
3:I:111:LYS:CG	3:I:1452:ILE:HD11	2.38	0.53
3:I:126:VAL:O	3:I:132:TYR:HB2	2.09	0.53
3:I:435:VAL:HG22	3:I:446:VAL:CG1	2.30	0.53
3:I:461:ILE:HA	3:I:464:LEU:HD12	1.90	0.53
3:I:789:LEU:O	3:I:792:ILE:HG23	2.07	0.53
2:M:946:ARG:CD	2:M:984:GLU:HB2	2.39	0.53
3:N:641:GLN:HB3	3:N:717:GLN:O	2.08	0.53
3:N:646:LYS:HD3	3:N:647:ARG:HH12	1.73	0.53
3:N:984:THR:HG22	3:N:987:GLU:OE1	2.08	0.53
3:N:1202:GLN:HE21	3:N:1214:PRO:HB3	1.74	0.53
5:Y:107:PRO:HD3	5:Y:121:ASP:HB3	1.90	0.53
2:C:269:LEU:HG	2:C:287:GLY:O	2.07	0.53
2:C:713:ARG:NE	2:C:758:ARG:NH2	2.57	0.53
3:D:15:PRO:HA	3:D:18:ILE:HG12	1.91	0.53
3:D:165:LYS:HE2	3:D:167:GLU:HB2	1.91	0.53
3:D:631:ILE:HG13	3:D:743:ASP:O	2.08	0.53
3:D:982:PHE:CD1	5:X:117:MET:CE	2.92	0.53
3:D:1271:LYS:HB3	3:D:1271:LYS:NZ	2.22	0.53
1:F:18:ARG:O	1:F:207:PRO:HD3	2.08	0.53
1:F:69:PRO:O	1:F:71:VAL:HG23	2.08	0.53
2:H:4:LYS:HD3	2:H:6:PHE:CZ	2.44	0.53
2:H:90:TYR:CD1	2:H:120:LEU:HD23	2.39	0.53
2:H:134:ARG:NH2	2:H:393:GLN:HA	2.23	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:257:VAL:O	2:H:263:ASP:HB2	2.09	0.53
2:H:833:LEU:HA	2:H:837:ASP:OD2	2.09	0.53
2:H:1052:MET:HG3	3:I:623:VAL:CG1	2.30	0.53
3:I:168:THR:HG22	3:I:170:PRO:HD3	1.91	0.53
3:I:548:ILE:N	3:I:548:ILE:HD12	2.24	0.53
3:I:639:LEU:HD12	3:I:932:ASP:OD2	2.09	0.53
3:I:644:LEU:O	3:I:721:VAL:HG23	2.09	0.53
1:K:186:LEU:HD23	1:K:187:GLY:N	2.24	0.53
1:L:64:GLU:HA	1:L:75:VAL:HG11	1.89	0.53
2:M:146:VAL:HG21	2:M:306:THR:HG22	1.91	0.53
2:M:501:THR:CG2	2:M:513:VAL:HG12	2.39	0.53
3:N:23:TYR:O	3:N:49:ILE:HA	2.09	0.53
3:N:216:VAL:O	3:N:216:VAL:HG12	2.07	0.53
3:N:355:VAL:HG13	3:N:356:PRO:HD2	1.91	0.53
3:N:789:LEU:HD12	3:N:911:LEU:HD21	1.89	0.53
3:N:1461:GLY:H	3:N:1473:PRO:HG2	1.72	0.53
5:X:144:LYS:HD3	5:X:147:ARG:HH11	1.73	0.53
5:Z:83:ILE:HG13	5:Z:132:HIS:O	2.09	0.53
1:A:122:ILE:N	1:A:122:ILE:HD12	2.24	0.53
2:C:521:PRO:HG3	3:D:1068:LEU:CD2	2.39	0.53
3:D:180:LYS:HB2	3:D:183:GLU:HB2	1.90	0.53
3:D:414:ARG:HB3	3:D:450:TYR:CE1	2.44	0.53
3:D:505:SER:OG	3:D:1453:ALA:HA	2.09	0.53
3:D:675:ARG:HA	3:D:678:GLU:HB3	1.90	0.53
3:D:1014:ASN:C	3:D:1016:PRO:HD3	2.29	0.53
3:D:1020:LEU:HA	3:D:1023:MET:HE2	1.88	0.53
3:D:1189:ARG:HH11	3:D:1189:ARG:HG3	1.72	0.53
3:D:1257:PRO:CA	3:D:1260:ILE:HD13	2.30	0.53
2:H:508:ILE:HG22	2:H:509:ALA:N	2.23	0.53
2:H:1041:GLU:HB2	3:I:1223:ILE:HD13	1.90	0.53
3:I:112:ILE:HD13	3:I:512:MET:HE3	1.90	0.53
3:I:138:LYS:H	3:I:138:LYS:HE2	1.74	0.53
3:I:191:LEU:HD22	3:I:393:ILE:HD13	1.90	0.53
3:I:357:GLU:OE2	3:I:387:LEU:HG	2.08	0.53
3:I:574:LEU:HD13	3:I:575:GLN:N	2.24	0.53
3:I:1122:LEU:HD13	3:I:1178:ALA:HB2	1.90	0.53
3:I:1307:LYS:H	3:I:1307:LYS:HD3	1.74	0.53
1:K:63:HIS:CD2	2:M:801:VAL:HG12	2.44	0.53
1:K:101:LEU:HD23	1:K:102:LYS:H	1.74	0.53
2:M:425:PHE:HA	2:M:428:ARG:HD2	1.90	0.53
2:M:548:PRO:HB2	2:M:843:HIS:CE1	2.44	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:101:HIS:O	3:N:103:TRP:N	2.42	0.53
3:N:851:LEU:HD23	3:N:851:LEU:H	1.74	0.53
3:N:1148:VAL:O	3:N:1188:VAL:HG23	2.08	0.53
5:Y:125:MET:HA	5:Y:140:LEU:HD11	1.91	0.53
5:Z:135:GLY:O	5:Z:150:ARG:HG3	2.08	0.53
1:A:52:ALA:HB1	1:A:170:VAL:HG22	1.90	0.53
2:C:39:ARG:HH11	2:C:39:ARG:HB2	1.73	0.53
2:C:575:GLN:C	2:C:667:ALA:HB1	2.29	0.53
2:C:620:LEU:HD12	2:C:620:LEU:O	2.07	0.53
2:C:729:LEU:HG	2:C:729:LEU:O	2.09	0.53
2:C:754:ILE:HD12	2:C:754:ILE:N	2.24	0.53
3:D:101:HIS:CG	3:D:582:LEU:HD11	2.44	0.53
3:D:708:LEU:HD22	3:D:1231:GLU:N	2.24	0.53
3:D:1171:VAL:HG12	3:D:1175:ILE:HD11	1.90	0.53
3:D:1192:LEU:HD22	3:D:1192:LEU:N	2.24	0.53
3:D:1335:LEU:HD23	3:D:1344:VAL:HA	1.90	0.53
2:H:134:ARG:HH21	2:H:393:GLN:HA	1.72	0.53
2:H:274:ARG:O	2:H:277:ALA:HB3	2.08	0.53
2:H:599:GLU:HB3	2:H:615:TYR:HD2	1.72	0.53
2:H:726:ILE:CD1	2:H:734:LEU:HD21	2.27	0.53
2:H:806:LEU:HD11	2:H:813:VAL:HG21	1.91	0.53
2:H:1017:THR:O	2:H:1018:GLN:HG2	2.08	0.53
3:I:431:VAL:HG12	3:I:432:TYR:N	2.24	0.53
3:I:436:GLU:OE1	3:I:445:ARG:HD3	2.08	0.53
3:I:1098:LEU:HD21	3:I:1229:ILE:HB	1.89	0.53
1:L:91:ASN:H	1:L:91:ASN:ND2	2.05	0.53
2:M:140:ILE:HG22	2:M:333:ILE:CD1	2.36	0.53
2:M:939:ARG:HB3	2:M:982:PRO:HG3	1.90	0.53
3:N:51:GLY:HA3	3:N:86:ARG:CG	2.39	0.53
3:N:87:ARG:CB	3:N:523:ASP:HB2	2.32	0.53
3:N:991:GLN:O	3:N:995:LEU:HD13	2.08	0.53
3:N:1292:VAL:HG23	3:N:1305:LEU:HD22	1.91	0.53
4:O:25:LYS:O	4:O:29:GLN:HG3	2.08	0.53
1:A:35:THR:HG21	1:B:43:ILE:CD1	2.35	0.53
1:A:100:LEU:HA	1:A:140:MET:HE1	1.91	0.53
1:A:173:PRO:HB3	1:A:202:ASP:OD2	2.08	0.53
2:C:19:THR:O	2:C:23:VAL:HG23	2.08	0.53
2:C:879:ARG:HG3	2:C:879:ARG:HH11	1.73	0.53
2:C:1008:ARG:NH1	3:D:624:ASP:HB3	2.24	0.53
3:D:179:VAL:CG1	3:D:183:GLU:HB3	2.39	0.53
3:D:631:ILE:HD12	3:D:631:ILE:O	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:992:ILE:O	3:D:995:LEU:HB3	2.09	0.53
3:D:1268:PRO:HG2	3:D:1330:ILE:O	2.09	0.53
4:E:67:GLU:OE2	4:E:73:LEU:HD21	2.09	0.53
2:H:250:ARG:HH22	2:H:252:LYS:HB2	1.73	0.53
2:H:802:ARG:O	2:H:803:THR:CG2	2.57	0.53
2:H:806:LEU:HD13	2:H:813:VAL:HG11	1.90	0.53
3:I:777:PRO:C	3:I:778:LEU:HD23	2.30	0.53
3:I:800:LYS:HG2	3:I:802:ALA:N	2.24	0.53
3:I:1098:LEU:HG	3:I:1226:ALA:HA	1.91	0.53
3:I:1472:ILE:N	3:I:1472:ILE:CD1	2.72	0.53
2:M:91:GLN:HB3	2:M:117:HIS:HB2	1.91	0.53
2:M:471:TYR:O	2:M:483:VAL:HG13	2.09	0.53
2:M:704:HIS:ND1	2:M:831:ARG:HG3	2.23	0.53
2:M:1085:PHE:O	2:M:1089:VAL:HG23	2.09	0.53
3:N:1041:LEU:HD12	3:N:1042:ARG:O	2.09	0.53
5:X:75:LEU:HD13	5:X:85:LEU:HB3	1.89	0.53
5:X:115:THR:HB	5:X:116:PRO:HD3	1.89	0.53
1:B:55:SER:HA	1:B:167:VAL:HG23	1.90	0.53
2:C:516:ARG:NE	3:D:1068:LEU:HD22	2.24	0.53
2:C:905:ILE:HG22	2:C:906:PHE:CD2	2.44	0.53
3:D:141:ILE:CD1	3:D:432:TYR:HB2	2.36	0.53
3:D:1155:VAL:O	3:D:1157:GLY:N	2.41	0.53
3:D:1252:ILE:HG23	3:D:1253:THR:N	2.23	0.53
3:D:1330:ILE:CG2	3:D:1331:ASP:N	2.72	0.53
1:F:31:GLY:HA2	1:F:193:ASP:OD2	2.09	0.53
1:F:39:PRO:HG3	1:G:39:PRO:CG	2.29	0.53
1:F:123:MET:O	1:F:125:PRO:HD3	2.08	0.53
1:F:124:ASN:ND2	1:F:127:LEU:HB2	2.20	0.53
2:H:165:LEU:HD21	2:H:418:LEU:CD1	2.38	0.53
2:H:250:ARG:HH22	2:H:252:LYS:HG3	1.74	0.53
2:H:398:THR:HA	2:H:633:GLN:HG3	1.90	0.53
2:H:472:ARG:HH12	2:H:481:ASP:HA	1.73	0.53
2:H:577:PRO:CD	2:H:580:MET:HE3	2.33	0.53
2:H:755:LEU:HD11	2:H:790:LEU:HG	1.91	0.53
2:H:889:HIS:O	2:H:892:LEU:HB3	2.08	0.53
3:I:166:GLN:HE22	3:I:394:LEU:HB2	1.74	0.53
3:I:567:ILE:HG22	3:I:571:LYS:HE3	1.89	0.53
1:K:48:ILE:CG2	1:K:173:PRO:HD2	2.34	0.53
1:L:19:GLU:O	1:L:200:TRP:HA	2.08	0.53
2:M:34:VAL:CG2	2:M:38:LYS:HB2	2.39	0.53
2:M:40:GLU:O	2:M:41:ASN:HB2	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:100:LEU:HB2	2:M:368:THR:HG23	1.90	0.53
2:M:139:GLN:NE2	2:M:414:GLY:HA3	2.24	0.53
2:M:140:ILE:HD11	2:M:427:VAL:HG11	1.90	0.53
2:M:197:LEU:HA	2:M:200:LEU:HD12	1.91	0.53
2:M:551:GLU:HG2	2:M:906:PHE:HA	1.90	0.53
2:M:791:ARG:HB3	2:M:791:ARG:HH11	1.72	0.53
2:M:858:MET:HE2	2:M:859:PRO:CD	2.39	0.53
3:N:135:LEU:HD21	3:N:147:VAL:CG2	2.39	0.53
3:N:845:ASN:ND2	3:N:845:ASN:O	2.42	0.53
3:N:924:MET:HB3	4:O:7:ASP:OD1	2.08	0.53
3:N:1344:VAL:HG12	3:N:1348:LEU:HD21	1.91	0.53
3:N:1399:ASP:HA	3:N:1402:ALA:HB3	1.89	0.53
2:C:286:SER:HB3	2:C:299:LYS:HZ1	1.73	0.53
2:C:691:SER:HA	2:C:853:LEU:O	2.09	0.53
2:C:724:ARG:HG2	2:C:734:LEU:HD11	1.90	0.53
2:C:915:LYS:HD3	2:C:918:LEU:HD23	1.91	0.53
3:D:907:GLU:O	3:D:908:LYS:C	2.47	0.53
1:F:153:ALA:HA	1:F:167:VAL:O	2.08	0.53
1:G:90:LEU:HD13	1:G:119:ASP:OD1	2.09	0.53
1:G:184:THR:HG23	1:G:192:LEU:HB2	1.90	0.53
2:H:52:PHE:O	2:H:54:ILE:N	2.42	0.53
2:H:165:LEU:HA	2:H:166:PRO:O	2.09	0.53
2:H:537:LYS:O	2:H:539:VAL:N	2.42	0.53
2:H:744:ARG:HG3	2:H:747:ALA:HB2	1.91	0.53
3:I:211:VAL:HG22	3:I:387:LEU:HD23	1.91	0.53
3:I:681:ARG:HD2	3:I:681:ARG:N	2.24	0.53
4:J:30:LEU:O	4:J:35:PHE:HA	2.09	0.53
1:K:101:LEU:HB2	1:K:114:PHE:CD2	2.44	0.53
1:K:167:VAL:HG12	1:K:168:ASP:N	2.20	0.53
1:K:179:PHE:HB3	1:K:197:LEU:HD11	1.91	0.53
1:L:39:PRO:O	1:L:43:ILE:HG12	2.08	0.53
1:L:88:ARG:HB2	1:L:123:MET:CE	2.39	0.53
2:M:313:LEU:HD22	2:M:321:GLU:O	2.09	0.53
2:M:557:ARG:HG3	2:M:557:ARG:NH1	2.22	0.53
2:M:798:GLY:HA3	2:M:828:ALA:O	2.09	0.53
2:M:1080:SER:O	2:M:1081:VAL:HG23	2.09	0.53
3:N:514:LEU:HD21	3:N:578:VAL:HG11	1.91	0.53
3:N:780:LYS:HD2	3:N:912:LYS:HE2	1.90	0.53
5:X:99:ARG:NE	5:X:152:VAL:HG11	2.24	0.53
5:X:104:VAL:HG13	5:X:119:ILE:O	2.08	0.53
5:Y:62:ILE:CG2	5:Y:63:ASP:N	2.71	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Z:83:ILE:N	5:Z:132:HIS:O	2.31	0.53
1:B:58:ILE:HD12	1:B:58:ILE:N	2.24	0.52
1:B:110:LYS:HD3	1:B:126:ASP:HA	1.90	0.52
1:B:117:VAL:HB	1:B:120:VAL:CG2	2.38	0.52
2:C:264:PRO:HB3	2:C:289:THR:HB	1.91	0.52
2:C:527:GLU:CD	2:C:527:GLU:N	2.62	0.52
2:C:679:PHE:C	2:C:681:GLY:H	2.13	0.52
2:C:859:PRO:O	2:C:867:VAL:HG22	2.08	0.52
2:C:1024:LYS:CG	2:C:1025:ALA:H	2.22	0.52
3:D:101:HIS:CD2	3:D:582:LEU:HD11	2.44	0.52
3:D:408:GLU:HG3	3:D:409:VAL:N	2.24	0.52
3:D:672:ALA:O	3:D:676:MET:HG2	2.09	0.52
3:D:695:ILE:HD11	3:D:717:GLN:OE1	2.08	0.52
1:F:42:ARG:HH12	1:G:34:VAL:HB	1.73	0.52
1:F:56:VAL:HG22	1:F:142:VAL:HA	1.92	0.52
1:F:177:VAL:HG12	1:F:178:ALA:N	2.24	0.52
1:G:160:ASP:HB3	1:G:161:ARG:NH1	2.23	0.52
2:H:119:PRO:HG2	2:H:386:PHE:CG	2.44	0.52
2:H:549:PHE:CD2	2:H:886:LEU:HB3	2.44	0.52
2:H:581:THR:OG1	2:H:583:LEU:HD23	2.09	0.52
2:H:791:ARG:O	2:H:793:PRO:HD3	2.09	0.52
2:H:861:LEU:HD23	2:H:862:PRO:CD	2.38	0.52
3:I:212:ARG:HB3	3:I:386:HIS:HB2	1.90	0.52
3:I:792:ILE:HD11	3:I:881:LEU:HD23	1.90	0.52
3:I:1045:MET:O	3:I:1053:PHE:HB2	2.08	0.52
3:I:1065:LEU:HD11	3:I:1069:GLU:HB3	1.90	0.52
1:K:143:ARG:HH11	1:K:143:ARG:HG3	1.75	0.52
1:L:91:ASN:OD1	1:L:93:SER:HB3	2.09	0.52
2:M:44:ILE:HG21	2:M:71:TYR:CE1	2.44	0.52
2:M:473:ARG:HA	2:M:531:PHE:CD1	2.44	0.52
2:M:498:GLN:HB3	2:M:500:ASN:OD1	2.08	0.52
2:M:1031:ARG:HG2	2:M:1032:PHE:N	2.24	0.52
2:M:1097:LEU:H	2:M:1097:LEU:HD22	1.73	0.52
3:N:108:VAL:CB	3:N:109:PRO:HD3	2.21	0.52
3:N:639:LEU:C	3:N:639:LEU:HD22	2.29	0.52
3:N:1188:VAL:HG22	3:N:1189:ARG:N	2.24	0.52
3:N:1264:GLU:CD	3:N:1423:GLY:HA3	2.29	0.52
1:A:114:PHE:HE2	1:A:142:VAL:HG21	1.74	0.52
2:C:300:ASP:C	2:C:302:VAL:H	2.12	0.52
2:C:383:ARG:HG2	2:C:388:ARG:HH12	1.74	0.52
2:C:833:LEU:HA	2:C:837:ASP:OD2	2.08	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:540:LEU:HD22	3:D:540:LEU:N	2.24	0.52
3:D:709:HIS:HE1	3:D:735:ALA:O	1.93	0.52
3:D:792:ILE:HD12	3:D:941:PHE:CE2	2.44	0.52
3:D:811:GLU:O	3:D:815:ALA:N	2.42	0.52
1:G:179:PHE:N	1:G:179:PHE:CD2	2.76	0.52
2:H:398:THR:N	2:H:633:GLN:HG3	2.24	0.52
2:H:603:VAL:HA	2:H:613:VAL:HG12	1.92	0.52
2:H:1086:ARG:HG3	2:H:1111:ILE:HD12	1.91	0.52
3:I:398:ALA:HB2	3:I:447:VAL:HA	1.89	0.52
3:I:644:LEU:N	3:I:721:VAL:HG21	2.23	0.52
3:I:695:ILE:O	3:I:697:GLY:N	2.43	0.52
3:I:907:GLU:HG2	3:I:1027:GLY:N	2.24	0.52
3:I:1099:VAL:HG22	3:I:1226:ALA:CB	2.39	0.52
3:I:1235:GLN:NE2	5:Y:37:LEU:HD22	2.25	0.52
3:I:1412:LYS:O	3:I:1414:PRO:HD3	2.10	0.52
2:M:683:ASN:HA	2:M:687:ALA:CB	2.39	0.52
3:N:2:LYS:HB2	3:N:2:LYS:NZ	2.23	0.52
3:N:10:ILE:HD13	3:N:1434:TRP:CZ2	2.44	0.52
3:N:148:GLU:HG2	3:N:151:GLN:CB	2.39	0.52
3:N:954:ALA:HB3	3:N:1062:ARG:HG3	1.91	0.52
3:N:1379:VAL:HG23	3:N:1380:GLU:N	2.25	0.52
1:A:41:ARG:HH11	1:A:41:ARG:HG3	1.74	0.52
2:C:124:ASP:HA	2:C:592:LEU:HD12	1.92	0.52
2:C:154:ARG:NH2	2:C:178:PRO:HG3	2.24	0.52
2:C:266:ARG:O	2:C:266:ARG:HD3	2.09	0.52
2:C:605:LYS:HB2	2:C:612:VAL:HB	1.91	0.52
2:C:1005:MET:O	2:C:1005:MET:HG3	2.09	0.52
2:C:1087:VAL:O	2:C:1091:GLU:HB2	2.10	0.52
3:D:654:LYS:O	3:D:658:LEU:HG	2.08	0.52
3:D:1442:ASN:HD21	3:D:1444:THR:HB	1.74	0.52
2:H:219:GLN:HA	2:H:222:MET:HG2	1.91	0.52
2:H:1046:ALA:C	3:I:1471:LEU:HD11	2.29	0.52
3:I:783:ARG:CG	3:I:784:ASP:H	2.15	0.52
3:I:1152:GLU:HB3	3:I:1162:GLU:N	2.24	0.52
3:I:1202:GLN:HE21	3:I:1214:PRO:HB3	1.74	0.52
3:I:1363:LEU:HD23	3:I:1363:LEU:H	1.73	0.52
3:I:1485:GLN:CG	4:J:79:LEU:H	2.16	0.52
4:J:37:ASN:N	4:J:37:ASN:ND2	2.56	0.52
1:K:85:LEU:HD11	1:K:122:ILE:HD13	1.91	0.52
2:M:31:GLN:HG2	2:M:45:GLN:NE2	2.24	0.52
2:M:175:GLU:HG2	2:M:176:VAL:N	2.24	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:471:TYR:H	2:M:483:VAL:HG13	1.74	0.52
3:N:482:LYS:NZ	3:N:1389:LEU:HD21	2.25	0.52
3:N:675:ARG:HG2	3:N:675:ARG:HH11	1.73	0.52
1:A:194:LYS:HG2	1:A:194:LYS:O	2.08	0.52
2:C:252:LYS:HD2	2:C:298:PHE:HZ	1.73	0.52
2:C:300:ASP:HB2	2:C:302:VAL:CG1	2.39	0.52
2:C:374:ASN:O	2:C:377:PRO:HD2	2.08	0.52
2:C:676:ILE:HD11	2:C:873:PRO:N	2.24	0.52
2:C:1032:PHE:CD2	2:C:1037:VAL:HG22	2.45	0.52
2:C:1043:TYR:HB3	3:D:763:MET:CE	2.39	0.52
3:D:95:LEU:HD12	3:D:97:THR:O	2.09	0.52
3:D:185:VAL:HG21	3:D:203:ALA:HB3	1.91	0.52
3:D:539:ASP:O	3:D:541:ASN:N	2.42	0.52
3:D:982:PHE:HD1	5:X:117:MET:HE1	1.75	0.52
3:D:1200:VAL:CG1	3:D:1201:CYS:H	2.21	0.52
3:D:1221:VAL:O	3:D:1224:VAL:HB	2.09	0.52
3:D:1260:ILE:HD12	3:D:1260:ILE:H	1.73	0.52
3:D:1482:ARG:HH21	3:D:1483:PHE:HZ	1.57	0.52
4:E:23:VAL:HG21	4:E:65:MET:HE3	1.91	0.52
2:H:629:TYR:O	2:H:637:LEU:HD12	2.10	0.52
2:H:714:ASP:OD2	2:H:719:PRO:HB3	2.09	0.52
2:H:737:LEU:HD21	2:H:741:GLY:C	2.29	0.52
3:I:26:VAL:CG2	3:I:49:ILE:HD13	2.39	0.52
3:I:165:LYS:HZ3	3:I:397:LYS:HB2	1.74	0.52
3:I:351:MET:HG2	3:I:370:ALA:HB2	1.92	0.52
3:I:540:LEU:HD12	3:I:540:LEU:N	2.11	0.52
3:I:719:VAL:HG12	3:I:720:LEU:HD22	1.92	0.52
3:I:826:PRO:HD2	3:I:829:VAL:HG22	1.90	0.52
3:I:989:TYR:O	3:I:993:LEU:HG	2.10	0.52
3:I:1391:GLU:HB3	3:I:1393:GLN:NE2	2.24	0.52
1:K:101:LEU:HD11	1:K:113:ASP:CB	2.38	0.52
1:L:137:ARG:NH1	1:L:139:ASN:HB3	2.24	0.52
1:L:143:ARG:CZ	1:L:158:ILE:HG21	2.40	0.52
2:M:30:LEU:CA	2:M:44:ILE:HD13	2.39	0.52
2:M:196:LEU:O	2:M:200:LEU:HG	2.09	0.52
2:M:276:LYS:HA	2:M:280:LYS:HE3	1.91	0.52
2:M:328:LEU:C	2:M:330:ASN:H	2.12	0.52
2:M:721:ARG:HA	2:M:820:ARG:CZ	2.39	0.52
2:M:919:ALA:HB1	2:M:964:LYS:NZ	2.24	0.52
3:N:180:LYS:NZ	3:N:386:HIS:HA	2.24	0.52
3:N:637:LEU:HD12	3:N:641:GLN:NE2	2.24	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1288:GLU:O	3:N:1307:LYS:HE2	2.09	0.52
3:N:1326:THR:HG22	3:N:1327:ARG:H	1.74	0.52
5:Y:43:ARG:HD2	5:Y:43:ARG:C	2.30	0.52
5:Y:128:ALA:HB2	5:Y:140:LEU:HD21	1.91	0.52
5:Z:62:ILE:CG2	5:Z:63:ASP:N	2.72	0.52
1:B:29:GLU:CD	1:B:30:ARG:H	2.13	0.52
1:B:173:PRO:O	1:B:201:THR:HG23	2.10	0.52
2:C:44:ILE:O	2:C:47:ALA:HB3	2.10	0.52
2:C:73:LEU:HD23	2:C:94:LEU:HB2	1.91	0.52
2:C:229:MET:O	2:C:229:MET:SD	2.68	0.52
2:C:432:ARG:HH22	3:D:1047:LYS:HG2	1.75	0.52
2:C:537:LYS:NZ	2:C:904:PRO:HB3	2.24	0.52
2:C:1008:ARG:O	3:D:625:TYR:HA	2.09	0.52
2:C:1035:MET:HA	2:C:1038:TRP:CE3	2.45	0.52
3:D:869:MET:CE	3:D:897:TRP:HE1	2.23	0.52
3:D:1293:PHE:CZ	3:D:1302:GLU:HB2	2.44	0.52
2:H:15:LEU:CD2	2:H:583:LEU:HD12	2.39	0.52
2:H:402:SER:HB3	2:H:566:THR:O	2.09	0.52
2:H:891:GLY:O	2:H:894:GLY:N	2.43	0.52
4:J:40:LEU:O	4:J:40:LEU:HD12	2.09	0.52
1:K:73:GLU:OE2	1:K:130:ALA:HA	2.10	0.52
2:M:564:MET:HE2	2:M:840:ALA:HB3	1.91	0.52
2:M:872:ASN:ND2	2:M:874:LEU:HB2	2.24	0.52
3:N:16:GLU:CD	3:N:16:GLU:H	2.13	0.52
3:N:606:ILE:O	3:N:606:ILE:HG13	2.10	0.52
3:N:884:ARG:O	3:N:888:GLU:HB2	2.09	0.52
3:N:1258:ARG:NE	3:N:1262:LEU:HD11	2.25	0.52
3:N:1408:ILE:H	3:N:1408:ILE:CD1	2.22	0.52
4:O:51:LEU:C	4:O:53:GLY:H	2.11	0.52
5:X:106:SER:HA	5:X:121:ASP:HB2	1.92	0.52
5:Y:33:PHE:HE2	5:Y:52:ARG:HG2	1.75	0.52
1:A:213:GLN:O	1:A:217:ILE:HG13	2.10	0.52
2:C:859:PRO:O	2:C:867:VAL:HG13	2.09	0.52
2:C:1035:MET:HB2	2:C:1036:GLU:OE1	2.09	0.52
3:D:562:ALA:HB2	2:H:226:VAL:HB	1.92	0.52
3:D:702:LEU:HB3	3:D:745:MET:CE	2.40	0.52
4:E:53:GLY:C	4:E:55:PHE:H	2.12	0.52
1:F:50:GLY:O	1:F:146:ARG:HG3	2.08	0.52
1:F:142:VAL:O	1:F:142:VAL:HG23	2.10	0.52
1:F:219:ARG:CA	1:F:222:LEU:HD22	2.38	0.52
2:H:111:ASP:OD1	2:H:369:PRO:HG3	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:565:GLN:OE1	2:H:995:MET:CE	2.58	0.52
3:I:636:GLN:HE21	3:I:637:LEU:CB	2.23	0.52
3:I:653:PHE:CZ	3:I:695:ILE:HD13	2.44	0.52
3:I:769:LEU:HG	3:I:924:MET:HE2	1.90	0.52
3:I:859:ASP:O	3:I:877:PRO:HG2	2.09	0.52
2:M:92:ALA:HB2	2:M:120:LEU:HD11	1.92	0.52
2:M:381:ALA:O	2:M:384:GLU:HB3	2.10	0.52
2:M:543:ASN:OD1	2:M:562:SER:HB3	2.10	0.52
2:M:841:ASN:ND2	2:M:843:HIS:HB2	2.24	0.52
3:N:12:LEU:HD22	3:N:12:LEU:N	2.11	0.52
3:N:1485:GLN:HG3	4:O:79:LEU:H	1.74	0.52
5:X:33:PHE:HZ	5:X:51:ALA:C	2.13	0.52
1:A:99:LEU:HD12	1:A:99:LEU:N	2.25	0.52
1:A:138:LEU:O	1:A:139:ASN:ND2	2.43	0.52
1:B:138:LEU:HD13	1:B:138:LEU:C	2.29	0.52
2:C:259:GLY:HA3	2:C:293:PHE:CD2	2.45	0.52
2:C:291:ALA:O	2:C:292:ARG:HB3	2.10	0.52
2:C:693:GLU:HA	2:C:696:LYS:HD2	1.92	0.52
2:C:808:ARG:NH2	2:C:820:ARG:NE	2.57	0.52
2:C:909:ALA:HB1	2:C:914:ILE:CD1	2.38	0.52
3:D:618:LEU:C	3:D:620:GLY:H	2.13	0.52
3:D:957:PRO:HG2	3:D:1007:VAL:HA	1.91	0.52
3:D:1225:ALA:HA	3:D:1367:HIS:HB3	1.92	0.52
3:D:1274:ILE:HD11	3:D:1334:GLN:HB3	1.92	0.52
3:D:1385:GLY:HA2	3:D:1413:THR:HG21	1.92	0.52
3:D:1435:LEU:HD13	3:D:1457:ASP:CG	2.30	0.52
1:G:52:ALA:O	1:G:144:VAL:HG13	2.09	0.52
1:G:66:SER:O	1:G:75:VAL:HG23	2.09	0.52
2:H:242:LEU:HD13	2:H:254:VAL:HG21	1.91	0.52
1:L:172:SER:OG	1:L:174:VAL:HG23	2.08	0.52
2:M:34:VAL:HG21	2:M:38:LYS:HB2	1.92	0.52
2:M:103:LYS:NZ	2:M:103:LYS:HB3	2.24	0.52
2:M:129:ILE:HG12	2:M:386:PHE:O	2.09	0.52
2:M:251:ASP:C	2:M:253:ALA:H	2.13	0.52
2:M:372:LEU:N	2:M:372:LEU:HD12	2.25	0.52
2:M:532:MET:HG2	2:M:533:ASP:N	2.23	0.52
2:M:544:THR:C	2:M:546:LEU:H	2.13	0.52
2:M:848:VAL:HG23	3:N:740:PHE:O	2.10	0.52
2:M:889:HIS:O	2:M:892:LEU:HB3	2.10	0.52
2:M:1109:VAL:HG11	3:N:5:VAL:CG2	2.40	0.52
3:N:18:ILE:CD1	3:N:516:ALA:HB3	2.38	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:787:LEU:HG	3:N:788:GLY:N	2.23	0.52
3:N:1053:PHE:CE1	3:N:1072:ILE:HG23	2.44	0.52
3:N:1101:VAL:HG12	3:N:1428:ALA:HB2	1.90	0.52
3:N:1124:GLN:HB3	3:N:1135:ARG:HG2	1.92	0.52
1:A:151:VAL:N	1:A:169:ALA:HB3	2.24	0.52
1:B:62:LEU:HD22	1:B:63:HIS:HB2	1.92	0.52
2:C:465:GLY:O	2:C:466:PHE:C	2.48	0.52
2:C:693:GLU:OE2	2:C:855:VAL:HG21	2.09	0.52
2:C:1043:TYR:CD2	3:D:763:MET:HG3	2.45	0.52
3:D:537:THR:O	3:D:538:SER:O	2.27	0.52
3:D:1422:MET:CE	3:D:1426:LYS:HB3	2.39	0.52
1:F:64:GLU:O	1:F:75:VAL:HB	2.10	0.52
1:G:185:ARG:CD	1:G:186:LEU:N	2.72	0.52
2:H:861:LEU:HD21	2:H:925:TYR:CE2	2.45	0.52
2:H:943:VAL:HG13	2:H:944:LEU:H	1.74	0.52
3:I:548:ILE:HD12	3:I:548:ILE:H	1.75	0.52
3:I:587:ARG:HG2	3:I:587:ARG:NH1	2.24	0.52
3:I:783:ARG:O	3:I:784:ASP:C	2.48	0.52
3:I:1107:VAL:HB	3:I:1218:GLY:N	2.16	0.52
4:J:28:GLN:HB3	4:J:32:ARG:HH12	1.75	0.52
4:J:54:LEU:CG	4:J:58:PRO:HB3	2.37	0.52
1:L:56:VAL:HG13	1:L:142:VAL:HG12	1.92	0.52
2:M:302:VAL:HG22	2:M:303:PHE:CD1	2.45	0.52
2:M:442:GLU:OE2	2:M:543:ASN:HB3	2.10	0.52
2:M:577:PRO:HB3	2:M:842:ARG:NH1	2.24	0.52
2:M:603:VAL:HG23	2:M:647:GLN:O	2.10	0.52
3:N:367:ILE:HD12	3:N:377:VAL:HG12	1.90	0.52
3:N:758:GLU:HB3	4:O:20:THR:CG2	2.37	0.52
3:N:844:ALA:CB	3:N:867:ARG:HH22	2.18	0.52
3:N:902:LEU:H	3:N:902:LEU:CD2	2.17	0.52
5:X:102:VAL:HG13	5:X:103:GLN:N	2.25	0.52
2:C:146:VAL:HG12	2:C:276:LYS:O	2.10	0.52
2:C:271:GLU:HB3	2:C:464:LEU:HD11	1.92	0.52
2:C:404:LEU:HD21	2:C:591:SER:OG	2.10	0.52
2:C:522:VAL:HG12	2:C:523:ILE:N	2.25	0.52
2:C:606:VAL:HG21	2:C:645:VAL:HG22	1.91	0.52
2:C:643:VAL:HG12	2:C:644:VAL:H	1.74	0.52
2:C:722:ILE:HD12	2:C:805:ARG:HH21	1.75	0.52
2:C:1080:SER:O	2:C:1081:VAL:HG23	2.09	0.52
3:D:119:SER:CB	3:D:123:LEU:HD22	2.40	0.52
3:D:509:PRO:O	3:D:512:MET:HG2	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:800:LYS:NZ	3:D:804:LEU:HD12	2.24	0.52
3:D:813:LEU:HD12	3:D:814:ALA:CB	2.39	0.52
3:D:1330:ILE:HD13	3:D:1347:TYR:CE1	2.44	0.52
4:E:47:LYS:C	4:E:54:LEU:HB3	2.30	0.52
1:F:88:ARG:HH12	1:F:90:LEU:HD12	1.75	0.52
1:G:56:VAL:HG12	1:G:57:TYR:N	2.24	0.52
1:G:123:MET:C	1:G:125:PRO:HD3	2.30	0.52
1:G:175:ARG:O	1:G:176:ARG:HB2	2.08	0.52
2:H:198:ARG:HG3	2:H:228:ALA:HA	1.91	0.52
2:H:333:ILE:HD13	2:H:334:ARG:H	1.75	0.52
2:H:418:LEU:HD12	2:H:418:LEU:N	2.25	0.52
2:H:569:VAL:HG12	2:H:996:LYS:O	2.10	0.52
3:I:367:ILE:HG22	3:I:368:VAL:HG23	1.92	0.52
3:I:563:PRO:O	3:I:567:ILE:HG12	2.10	0.52
3:I:1183:ILE:O	3:I:1183:ILE:HD12	2.09	0.52
3:I:1240:THR:HG23	5:Y:56:TRP:CH2	2.44	0.52
3:I:1280:VAL:HG22	3:I:1295:GLU:O	2.10	0.52
1:K:31:GLY:O	1:K:34:VAL:HG12	2.10	0.52
1:L:100:LEU:H	1:L:115:LEU:HD11	1.74	0.52
2:M:569:VAL:HG12	2:M:996:LYS:O	2.09	0.52
2:M:666:LEU:HD11	2:M:668:LEU:CG	2.30	0.52
2:M:1046:ALA:CA	3:N:1472:ILE:HD11	2.28	0.52
2:M:1096:ALA:O	2:M:1097:LEU:C	2.47	0.52
3:N:99:ALA:HB3	3:N:514:LEU:CD1	2.39	0.52
3:N:1295:GLU:HB3	3:N:1300:SER:HB3	1.92	0.52
3:N:1351:GLU:OE1	3:N:1351:GLU:HA	2.10	0.52
5:X:68:ILE:CD1	5:X:71:ARG:HH21	2.22	0.52
1:B:132:LEU:HD11	1:B:138:LEU:HB3	1.92	0.52
2:C:154:ARG:HH12	2:C:178:PRO:CG	2.19	0.52
2:C:196:LEU:O	2:C:200:LEU:HG	2.10	0.52
2:C:373:VAL:HG12	2:C:374:ASN:N	2.24	0.52
2:C:443:THR:HG21	3:D:1078:ARG:NE	2.25	0.52
2:C:455:LEU:HD11	2:C:459:ALA:HB3	1.91	0.52
2:C:474:VAL:HG23	2:C:478:VAL:O	2.10	0.52
2:C:905:ILE:H	2:C:905:ILE:CD1	2.23	0.52
3:D:130:SER:O	3:D:568:ARG:NH2	2.43	0.52
3:D:1478:SER:O	3:D:1482:ARG:HB2	2.10	0.52
4:E:15:SER:O	4:E:18:ARG:HB3	2.10	0.52
4:E:47:LYS:HA	4:E:54:LEU:HB3	1.92	0.52
2:H:197:LEU:HA	2:H:200:LEU:HD12	1.91	0.52
2:H:257:VAL:HG12	2:H:263:ASP:OD2	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:281:LEU:H	2:H:281:LEU:HD23	1.74	0.52
2:H:292:ARG:NE	2:H:299:LYS:HE2	2.25	0.52
3:I:187:LYS:HG2	3:I:199:LEU:C	2.29	0.52
3:I:845:ASN:HD22	3:I:845:ASN:N	2.08	0.52
3:I:1359:GLN:HE21	3:I:1359:GLN:CA	2.22	0.52
4:J:23:VAL:HG22	4:J:68:LEU:HD21	1.91	0.52
2:M:133:ASP:HB2	2:M:632:ASN:HD21	1.75	0.52
2:M:157:ARG:HB3	2:M:176:VAL:HG21	1.92	0.52
2:M:289:THR:O	2:M:291:ALA:N	2.43	0.52
2:M:572:ILE:CG1	2:M:573:ARG:N	2.72	0.52
2:M:575:GLN:HB2	2:M:670:GLN:HA	1.92	0.52
2:M:668:LEU:O	2:M:995:MET:HB3	2.10	0.52
2:M:1006:HIS:CD2	2:M:1027:PHE:CD2	2.98	0.52
2:M:1055:LEU:HD11	2:M:1079:PRO:HD3	1.92	0.52
3:N:18:ILE:HD12	3:N:516:ALA:HB3	1.92	0.52
3:N:519:VAL:HG13	3:N:544:TYR:CE2	2.45	0.52
3:N:806:PHE:CE1	3:N:813:LEU:HB3	2.45	0.52
3:N:907:GLU:O	3:N:908:LYS:C	2.48	0.52
3:N:1211:MET:HG2	3:N:1212:ALA:N	2.19	0.52
5:Z:27:GLN:O	5:Z:30:SER:HB3	2.10	0.52
2:C:203:ASP:O	2:C:207:LEU:HB2	2.09	0.51
2:C:242:LEU:HD13	2:C:254:VAL:HG21	1.91	0.51
2:C:525:SER:C	2:C:527:GLU:H	2.14	0.51
2:C:557:ARG:HG3	2:C:557:ARG:NH1	2.23	0.51
3:D:851:LEU:O	3:D:855:HIS:HB2	2.11	0.51
1:G:45:LEU:HA	1:G:48:ILE:HD11	1.93	0.51
1:G:100:LEU:CG	1:G:115:LEU:HD11	2.40	0.51
2:H:144:PRO:HG2	2:H:265:ARG:CZ	2.39	0.51
2:H:249:LYS:HG2	2:H:250:ARG:H	1.74	0.51
2:H:354:GLY:HA3	2:H:358:ARG:NH1	2.25	0.51
2:H:854:PRO:CB	2:H:856:GLU:HG2	2.37	0.51
2:H:1046:ALA:HB1	3:I:1471:LEU:CD1	2.39	0.51
3:I:117:ASP:HB2	3:I:495:ARG:HH12	1.75	0.51
3:I:181:ASP:CG	3:I:441:ARG:HE	2.13	0.51
3:I:455:ARG:HB3	3:I:459:GLU:OE1	2.11	0.51
3:I:813:LEU:HD12	3:I:814:ALA:N	2.24	0.51
1:K:178:ALA:HB2	2:M:864:GLY:H	1.74	0.51
1:L:211:LEU:O	1:L:214:ALA:HB3	2.10	0.51
2:M:710:ILE:HD11	2:M:758:ARG:NH1	2.26	0.51
3:N:103:TRP:HZ2	3:N:604:THR:HG1	1.58	0.51
3:N:107:ASP:O	3:N:108:VAL:C	2.47	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:162:ARG:CD	3:N:452:ILE:HD12	2.40	0.51
3:N:1121:PRO:HD2	3:N:1346:ARG:HH21	1.75	0.51
3:N:1377:LYS:HD3	3:N:1378:TYR:CE1	2.44	0.51
5:X:99:ARG:NE	5:X:152:VAL:HG21	2.24	0.51
2:C:275:TYR:CE2	2:C:280:LYS:NZ	2.79	0.51
2:C:350:ARG:HH21	2:C:381:ALA:HB2	1.75	0.51
3:D:10:ILE:HG23	3:D:10:ILE:O	2.10	0.51
3:D:719:VAL:CG1	3:D:720:LEU:HD22	2.40	0.51
3:D:1277:ILE:HD12	3:D:1277:ILE:N	2.25	0.51
3:D:1391:GLU:HB3	3:D:1393:GLN:NE2	2.25	0.51
1:F:59:GLU:CG	1:F:139:ASN:HB3	2.37	0.51
2:H:10:ARG:HA	2:H:10:ARG:NH1	2.18	0.51
2:H:15:LEU:H	2:H:15:LEU:CD1	2.21	0.51
2:H:196:LEU:HD22	2:H:196:LEU:C	2.31	0.51
2:H:283:ILE:HG12	2:H:284:ARG:H	1.76	0.51
2:H:341:THR:O	2:H:344:PHE:HB3	2.11	0.51
2:H:544:THR:C	2:H:546:LEU:H	2.12	0.51
2:H:1107:ASN:HD22	3:I:2:LYS:HZ2	1.56	0.51
3:I:780:LYS:NZ	5:Y:38:GLU:OE2	2.37	0.51
3:I:1403:LEU:O	3:I:1407:LEU:HB2	2.11	0.51
1:K:39:PRO:HG3	1:L:39:PRO:CG	2.38	0.51
1:K:89:PHE:HE1	1:K:146:ARG:HB3	1.75	0.51
1:K:99:LEU:HB2	1:K:142:VAL:CG2	2.40	0.51
1:K:111:ALA:HB2	1:K:127:LEU:HD23	1.92	0.51
2:M:258:TYR:N	2:M:258:TYR:CD1	2.79	0.51
2:M:501:THR:HG22	2:M:513:VAL:HG12	1.92	0.51
2:M:579:VAL:HG13	2:M:579:VAL:O	2.10	0.51
2:M:1061:GLU:HG3	3:N:84:ILE:HG13	1.92	0.51
3:N:345:TYR:CE1	3:N:377:VAL:HG22	2.45	0.51
3:N:817:GLU:O	3:N:821:VAL:HG23	2.09	0.51
3:N:829:VAL:HG12	3:N:830:ALA:H	1.76	0.51
3:N:1435:LEU:HD23	3:N:1464:GLU:HB2	1.93	0.51
5:Z:37:LEU:HD23	5:Z:42:LEU:HD11	1.92	0.51
2:C:578:VAL:HG23	2:C:579:VAL:HG13	1.91	0.51
2:C:858:MET:HG3	2:C:867:VAL:HG22	1.93	0.51
3:D:615:ARG:CZ	3:D:1439:SER:O	2.58	0.51
3:D:800:LYS:HD3	3:D:803:GLY:N	2.25	0.51
3:D:1333:HIS:O	3:D:1336:LEU:HB3	2.09	0.51
1:F:165:ILE:HD12	1:F:165:ILE:N	2.25	0.51
1:G:104:GLU:HA	1:G:132:LEU:HD23	1.92	0.51
2:H:73:LEU:CB	2:H:94:LEU:HA	2.41	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:129:ILE:HD12	2:H:386:PHE:HB3	1.93	0.51
2:H:323:ASP:OD2	2:H:323:ASP:N	2.42	0.51
2:H:606:VAL:HA	2:H:611:ILE:CD1	2.40	0.51
2:H:705:ILE:HG23	2:H:827:VAL:O	2.10	0.51
3:I:17:LYS:HG2	3:I:21:TRP:HE1	1.75	0.51
3:I:105:VAL:HG22	3:I:112:ILE:CG2	2.41	0.51
3:I:119:SER:HB2	3:I:123:LEU:N	2.24	0.51
3:I:137:PRO:CG	3:I:453:ASP:HB2	2.40	0.51
3:I:206:ARG:HA	3:I:206:ARG:HE	1.76	0.51
3:I:802:ALA:O	3:I:804:LEU:N	2.44	0.51
3:I:851:LEU:O	3:I:855:HIS:HB2	2.11	0.51
3:I:959:GLU:CD	3:I:959:GLU:H	2.14	0.51
3:I:1330:ILE:HD12	3:I:1330:ILE:N	2.25	0.51
1:K:73:GLU:CD	1:K:130:ALA:HA	2.30	0.51
1:K:177:VAL:CG2	1:K:199:ILE:HG22	2.31	0.51
1:L:56:VAL:HG12	1:L:57:TYR:N	2.25	0.51
2:M:54:ILE:HG12	2:M:64:LEU:HD21	1.92	0.51
2:M:124:ASP:OD1	2:M:124:ASP:N	2.41	0.51
3:N:916:TYR:CZ	3:N:920:LEU:HD11	2.45	0.51
3:N:1117:TYR:C	3:N:1118:ILE:HD12	2.30	0.51
3:N:1277:ILE:H	3:N:1277:ILE:HD12	1.74	0.51
3:N:1288:GLU:O	3:N:1307:LYS:HG3	2.10	0.51
3:N:1422:MET:HE2	3:N:1427:SER:HA	1.92	0.51
4:O:48:MET:HB3	4:O:51:LEU:O	2.10	0.51
4:O:59:ASN:ND2	4:O:62:THR:H	2.08	0.51
4:O:73:LEU:N	4:O:73:LEU:HD13	2.25	0.51
5:X:42:LEU:O	5:X:43:ARG:CB	2.58	0.51
5:Z:45:ASN:O	5:Z:48:TYR:N	2.27	0.51
1:A:99:LEU:O	1:A:142:VAL:HG22	2.11	0.51
1:B:156:HIS:CD2	1:B:157:GLY:H	2.28	0.51
2:C:66:LEU:CD1	2:C:98:LEU:HD23	2.32	0.51
2:C:221:LEU:C	2:C:223:ASP:H	2.14	0.51
2:C:281:LEU:HD23	2:C:281:LEU:H	1.76	0.51
2:C:463:GLU:HB2	2:C:464:LEU:CD2	2.41	0.51
2:C:724:ARG:HG2	2:C:737:LEU:HD22	1.90	0.51
3:D:409:VAL:HG12	3:D:435:VAL:HG11	1.93	0.51
3:D:431:VAL:HG12	3:D:432:TYR:N	2.21	0.51
3:D:563:PRO:CA	2:H:223:ASP:HB2	2.36	0.51
3:D:811:GLU:HG2	3:D:815:ALA:HB2	1.92	0.51
3:D:1087:ARG:HH21	3:D:1235:GLN:HG3	1.75	0.51
3:D:1099:VAL:HG22	3:D:1226:ALA:HB1	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1192:LEU:HD22	3:D:1192:LEU:H	1.74	0.51
3:D:1258:ARG:HE	3:D:1262:LEU:HD11	1.75	0.51
3:D:1460:ILE:O	3:D:1460:ILE:HG13	2.10	0.51
3:D:1498:ALA:CB	4:E:84:ARG:HH21	2.20	0.51
4:E:81:PRO:HB2	4:E:84:ARG:HB2	1.92	0.51
1:F:32:PHE:CZ	1:G:43:ILE:HD12	2.44	0.51
1:F:57:TYR:CE2	1:F:161:ARG:HD2	2.45	0.51
1:F:84:GLU:HG2	1:F:127:LEU:HD11	1.92	0.51
2:H:199:VAL:HG23	2:H:234:ALA:HB1	1.92	0.51
2:H:199:VAL:HG13	2:H:235:LEU:HD23	1.93	0.51
2:H:355:VAL:HG23	2:H:372:LEU:HD11	1.92	0.51
2:H:881:ASN:HD22	2:H:884:GLN:HE22	1.58	0.51
2:H:1016:ILE:H	2:H:1016:ILE:CD1	2.05	0.51
1:L:98:THR:HG23	1:L:143:ARG:HG3	1.92	0.51
2:M:755:LEU:HB2	2:M:790:LEU:HD23	1.91	0.51
2:M:946:ARG:HH22	3:N:796:ARG:NH1	2.07	0.51
3:N:463:GLN:HA	3:N:466:LYS:HE2	1.93	0.51
3:N:631:ILE:H	3:N:631:ILE:CD1	2.23	0.51
3:N:794:GLN:HG2	3:N:1017:PHE:CE2	2.44	0.51
3:N:1256:LEU:O	3:N:1259:VAL:N	2.42	0.51
3:N:1259:VAL:O	3:N:1263:PHE:HD1	1.92	0.51
3:N:1424:VAL:HG13	3:N:1425:THR:H	1.74	0.51
5:Y:45:ASN:OD1	5:Y:45:ASN:N	2.43	0.51
5:Y:93:ASP:OD1	5:Y:94:PRO:HD2	2.11	0.51
1:B:32:PHE:O	1:B:36:LEU:HG	2.10	0.51
2:C:54:ILE:HG12	2:C:64:LEU:HD23	1.92	0.51
2:C:405:ARG:HH12	2:C:563:ASN:HA	1.75	0.51
3:D:95:LEU:HD13	3:D:96:ALA:H	1.74	0.51
3:D:728:LEU:HD22	3:D:745:MET:SD	2.50	0.51
3:D:815:ALA:HA	3:D:818:ARG:HD2	1.92	0.51
3:D:1229:ILE:C	3:D:1232:PRO:HD2	2.29	0.51
1:F:41:ARG:NH1	1:F:177:VAL:O	2.44	0.51
1:F:169:ALA:HB1	1:F:171:PHE:CE2	2.46	0.51
2:H:8:ARG:N	2:H:907:ASP:OD2	2.44	0.51
2:H:885:ILE:HG22	2:H:889:HIS:CE1	2.44	0.51
2:H:1094:ALA:CB	2:H:1095:LEU:HD13	2.40	0.51
3:I:139:GLY:H	3:I:147:VAL:CG2	2.24	0.51
3:I:663:GLU:C	3:I:664:LYS:HD3	2.30	0.51
3:I:853:VAL:HG22	3:I:858:VAL:HG23	1.93	0.51
3:I:1103:HIS:O	3:I:1462:LEU:HD12	2.10	0.51
3:I:1485:GLN:NE2	4:J:79:LEU:H	2.09	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:633:GLN:O	2:M:998:TYR:HE1	1.93	0.51
3:N:633:VAL:HG22	3:N:635:PRO:HD3	1.93	0.51
5:Y:7:LEU:HD22	5:Y:109:GLU:HG3	1.93	0.51
5:Z:111:ASN:N	5:Z:118:LYS:HB2	2.25	0.51
1:B:207:PRO:O	1:B:210:ALA:HB3	2.10	0.51
2:C:127:PHE:O	2:C:133:ASP:HA	2.10	0.51
2:C:165:LEU:HG	2:C:166:PRO:C	2.31	0.51
2:C:263:ASP:CB	2:C:264:PRO:HD3	2.39	0.51
2:C:521:PRO:HG3	3:D:1068:LEU:HD21	1.91	0.51
2:C:939:ARG:HB2	2:C:975:TYR:OH	2.10	0.51
2:C:943:VAL:CG1	2:C:944:LEU:N	2.74	0.51
2:C:1029:GLY:HA3	3:D:623:VAL:O	2.10	0.51
3:D:433:GLY:HA3	3:D:447:VAL:O	2.10	0.51
3:D:644:LEU:C	3:D:721:VAL:HG22	2.30	0.51
3:D:1189:ARG:HG3	3:D:1189:ARG:NH1	2.24	0.51
1:G:80:LEU:CD1	3:I:844:ALA:HA	2.40	0.51
2:H:26:TYR:CZ	2:H:30:LEU:HD21	2.45	0.51
2:H:54:ILE:HG22	2:H:66:LEU:O	2.10	0.51
2:H:432:ARG:HH22	3:I:1047:LYS:HG2	1.75	0.51
2:H:622:GLU:HG3	2:H:623:TYR:H	1.76	0.51
1:K:57:TYR:O	1:K:140:MET:HA	2.10	0.51
1:K:132:LEU:HG	1:K:136:GLY:HA3	1.93	0.51
1:K:137:ARG:HG3	1:K:137:ARG:NH1	2.23	0.51
1:L:88:ARG:HB2	1:L:123:MET:HE2	1.93	0.51
1:L:99:LEU:HD22	1:L:114:PHE:HD2	1.75	0.51
2:M:238:LEU:CD2	2:M:241:LEU:HD12	2.36	0.51
2:M:292:ARG:CB	2:M:299:LYS:HG2	2.41	0.51
2:M:304:LEU:CB	2:M:305:PRO:HD3	2.40	0.51
2:M:600:ASP:OD1	2:M:649:VAL:O	2.29	0.51
3:N:84:ILE:HD13	3:N:84:ILE:H	1.75	0.51
3:N:148:GLU:HG2	3:N:151:GLN:HB3	1.92	0.51
3:N:169:TYR:HB2	3:N:393:ILE:O	2.10	0.51
3:N:186:VAL:HA	3:N:200:ASP:OD1	2.10	0.51
3:N:654:LYS:CB	3:N:655:PRO:HD3	2.41	0.51
3:N:982:PHE:HA	5:Z:125:MET:SD	2.51	0.51
3:N:1044:LEU:H	3:N:1044:LEU:HD12	1.74	0.51
3:N:1305:LEU:HD23	3:N:1305:LEU:H	1.76	0.51
1:A:178:ALA:HB2	2:C:864:GLY:H	1.75	0.51
1:B:43:ILE:O	1:B:48:ILE:HD13	2.11	0.51
1:B:122:ILE:H	1:B:122:ILE:HD12	1.76	0.51
2:C:293:PHE:HA	2:C:298:PHE:CD2	2.46	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:537:LYS:O	2:C:539:VAL:N	2.44	0.51
2:C:706:GLU:HB3	2:C:827:VAL:HG13	1.93	0.51
2:C:1037:VAL:O	2:C:1040:LEU:HB3	2.11	0.51
2:C:1056:LYS:O	3:D:624:ASP:OD1	2.28	0.51
3:D:18:ILE:HG23	3:D:518:PRO:CG	2.41	0.51
3:D:204:LEU:HD11	3:D:441:ARG:NH1	2.25	0.51
3:D:618:LEU:O	3:D:620:GLY:N	2.44	0.51
3:D:984:THR:CG2	3:D:987:GLU:H	2.23	0.51
3:D:1106:VAL:HG12	3:D:1107:VAL:N	2.24	0.51
3:D:1160:LEU:CD2	3:D:1164:ARG:HD2	2.39	0.51
1:F:156:HIS:ND1	1:F:158:ILE:HD11	2.26	0.51
1:F:211:LEU:O	1:F:215:VAL:HG23	2.11	0.51
2:H:290:LEU:HA	2:H:302:VAL:HG11	1.92	0.51
2:H:704:HIS:CE1	2:H:831:ARG:HG3	2.46	0.51
2:H:800:VAL:HA	2:H:827:VAL:HA	1.92	0.51
2:H:879:ARG:HH11	2:H:879:ARG:HG3	1.75	0.51
3:I:834:THR:HG22	3:I:838:ARG:HD3	1.91	0.51
3:I:895:VAL:HG22	3:I:921:ARG:HH22	1.76	0.51
3:I:1036:ARG:NH2	3:I:1042:ARG:HA	2.25	0.51
1:L:206:THR:HG23	1:L:208:LEU:HB3	1.92	0.51
1:L:221:HIS:HA	1:L:224:TYR:HD2	1.75	0.51
2:M:44:ILE:N	2:M:44:ILE:CD1	2.73	0.51
2:M:374:ASN:O	2:M:377:PRO:HD2	2.10	0.51
2:M:750:LYS:HE3	2:M:751:PRO:HD3	1.93	0.51
2:M:839:LEU:N	2:M:839:LEU:HD23	2.26	0.51
3:N:84:ILE:O	3:N:87:ARG:HG2	2.11	0.51
3:N:520:LEU:O	3:N:525:ARG:NH2	2.44	0.51
3:N:554:LEU:O	3:N:558:LEU:HG	2.11	0.51
3:N:804:LEU:CD2	3:N:831:GLY:HA2	2.12	0.51
3:N:835:SER:N	3:N:838:ARG:HD3	2.26	0.51
3:N:1370:ILE:O	3:N:1373:ARG:HB3	2.11	0.51
4:O:26:ARG:HH22	4:O:37:ASN:HB3	1.73	0.51
5:Y:5:VAL:HB	5:Y:72:ALA:CB	2.40	0.51
1:A:57:TYR:HE1	1:A:163:ASN:CB	2.24	0.51
1:A:153:ALA:HA	1:A:167:VAL:O	2.11	0.51
1:B:13:VAL:HG13	1:B:23:PHE:CD1	2.46	0.51
1:B:209:GLU:O	1:B:210:ALA:C	2.48	0.51
2:C:194:VAL:HA	2:C:197:LEU:CD1	2.39	0.51
2:C:253:ALA:O	2:C:257:VAL:HG23	2.11	0.51
2:C:458:TYR:O	2:C:460:ARG:HG3	2.11	0.51
2:C:473:ARG:HA	2:C:531:PHE:CE1	2.45	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:571:LEU:HD23	2:C:700:TYR:HA	1.93	0.51
2:C:755:LEU:HD12	2:C:790:LEU:CD2	2.41	0.51
2:C:877:PRO:HG3	3:D:1023:MET:SD	2.50	0.51
2:C:1013:TYR:CE2	2:C:1063:ARG:NH2	2.79	0.51
3:D:181:ASP:HA	3:D:205:TYR:HB3	1.92	0.51
3:D:642:CYS:O	3:D:718:PRO:HA	2.11	0.51
3:D:1465:ASN:ND2	3:D:1470:ARG:HB3	2.24	0.51
2:H:243:ARG:H	2:H:243:ARG:NE	2.09	0.51
2:H:268:ASP:OD2	2:H:272:ALA:HB2	2.11	0.51
2:H:1019:GLN:CD	3:I:621:LYS:HD2	2.31	0.51
2:H:1051:GLU:OE2	3:I:751:LEU:HB2	2.10	0.51
3:I:588:GLY:O	3:I:589:ALA:HB2	2.11	0.51
3:I:957:PRO:HG2	3:I:1007:VAL:HA	1.93	0.51
3:I:1047:LYS:NZ	3:I:1053:PHE:HA	2.26	0.51
1:K:67:THR:HG21	2:M:609:ASN:ND2	2.26	0.51
2:M:52:PHE:HE1	2:M:66:LEU:HD12	1.76	0.51
2:M:283:ILE:CG2	2:M:284:ARG:H	2.08	0.51
2:M:367:LEU:HB2	2:M:371:LYS:HG2	1.91	0.51
2:M:439:CYS:SG	2:M:540:PHE:HB3	2.51	0.51
2:M:946:ARG:O	2:M:950:LEU:HB2	2.11	0.51
2:M:1065:ALA:C	2:M:1077:PRO:HG2	2.31	0.51
3:N:461:ILE:CG2	3:N:464:LEU:HD12	2.40	0.51
5:Z:6:LYS:CB	5:Z:75:LEU:HD11	2.39	0.51
1:A:123:MET:SD	1:A:203:GLY:O	2.69	0.51
2:C:145:GLY:HA3	2:C:276:LYS:CG	2.41	0.51
2:C:252:LYS:HE3	2:C:256:TYR:CD1	2.46	0.51
2:C:328:LEU:N	2:C:328:LEU:HD12	2.25	0.51
2:C:599:GLU:HA	2:C:651:LYS:HG3	1.93	0.51
2:C:722:ILE:O	2:C:722:ILE:HD13	2.11	0.51
2:C:759:THR:O	2:C:760:SER:HB2	2.10	0.51
2:C:988:VAL:HG11	3:D:949:ILE:O	2.11	0.51
2:C:1005:MET:N	3:D:628:ARG:HH12	2.09	0.51
2:C:1103:ASP:CG	2:C:1104:GLU:H	2.14	0.51
3:D:162:ARG:CZ	3:D:452:ILE:HG23	2.41	0.51
3:D:749:VAL:O	3:D:749:VAL:HG23	2.10	0.51
3:D:964:LEU:C	3:D:964:LEU:HD23	2.30	0.51
1:F:58:ILE:CG2	1:F:59:GLU:N	2.73	0.51
1:F:78:ILE:HD12	1:F:130:ALA:CB	2.40	0.51
1:F:101:LEU:CD2	1:F:102:LYS:N	2.73	0.51
1:G:162:ILE:N	1:G:162:ILE:CD1	2.74	0.51
1:G:211:LEU:O	1:G:214:ALA:HB3	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:118:ILE:CD1	2:H:118:ILE:N	2.73	0.51
2:H:442:GLU:OE2	2:H:541:SER:HB3	2.10	0.51
2:H:579:VAL:HG13	2:H:579:VAL:O	2.10	0.51
2:H:581:THR:HG1	2:H:583:LEU:HD23	1.74	0.51
2:H:678:PRO:HD3	2:H:873:PRO:HG2	1.93	0.51
2:H:918:LEU:HD21	2:H:967:PHE:O	2.11	0.51
3:I:566:ILE:HD12	3:I:566:ILE:N	2.25	0.51
3:I:583:ASP:OD2	3:I:604:THR:HG21	2.10	0.51
3:I:736:PHE:O	3:I:738:ALA:N	2.43	0.51
3:I:781:PRO:C	3:I:786:ILE:HD11	2.31	0.51
3:I:1098:LEU:O	3:I:1101:VAL:HG22	2.10	0.51
1:L:83:LYS:HD3	1:L:168:ASP:HB2	1.92	0.51
2:M:546:LEU:HB2	2:M:565:GLN:OE1	2.11	0.51
2:M:592:LEU:O	2:M:592:LEU:HD22	2.11	0.51
2:M:911:GLU:HB3	2:M:912:PRO:HD3	1.92	0.51
2:M:1038:TRP:O	2:M:1041:GLU:HB2	2.10	0.51
3:N:112:ILE:CD1	3:N:115:LEU:HD22	2.41	0.51
3:N:162:ARG:HD2	3:N:452:ILE:HD12	1.93	0.51
3:N:642:CYS:O	3:N:718:PRO:HA	2.11	0.51
3:N:806:PHE:CD1	3:N:812:ALA:HB3	2.46	0.51
3:N:832:ARG:HH11	3:N:832:ARG:HG3	1.75	0.51
3:N:835:SER:H	3:N:838:ARG:HD3	1.76	0.51
3:N:1036:ARG:NH1	3:N:1041:LEU:O	2.44	0.51
3:N:1040:GLY:O	3:N:1041:LEU:HB3	2.11	0.51
3:N:1119:SER:O	3:N:1121:PRO:HD3	2.11	0.51
5:X:100:LEU:HD12	5:X:101:SER:H	1.76	0.51
1:A:57:TYR:CE1	1:A:161:ARG:HG2	2.46	0.51
1:B:125:PRO:O	1:B:127:LEU:N	2.43	0.51
1:B:127:LEU:HD22	1:B:129:ILE:HD13	1.93	0.51
2:C:94:LEU:HD22	2:C:95:TYR:N	2.25	0.51
2:C:636:ALA:HB2	2:C:703:ILE:HD13	1.92	0.51
2:C:722:ILE:CD1	2:C:741:GLY:HA3	2.40	0.51
3:D:102:ILE:HG22	3:D:582:LEU:CD1	2.40	0.51
3:D:200:ASP:OD2	3:D:200:ASP:N	2.43	0.51
3:D:207:PHE:O	3:D:390:PRO:HA	2.11	0.51
3:D:642:CYS:HB3	3:D:716:PHE:HB3	1.92	0.51
3:D:824:ASN:HD22	3:D:824:ASN:N	2.07	0.51
1:F:100:LEU:HD22	1:F:115:LEU:HD21	1.93	0.51
2:H:939:ARG:HA	2:H:939:ARG:HE	1.75	0.51
2:H:1056:LYS:NZ	3:I:625:TYR:HB2	2.26	0.51
3:I:125:GLN:NE2	3:I:587:ARG:HH21	2.09	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:1394:VAL:HB	3:I:1397:LYS:CG	2.40	0.51
1:K:165:ILE:HD13	1:K:165:ILE:N	2.19	0.51
1:L:173:PRO:HB3	1:L:202:ASP:OD1	2.11	0.51
2:M:294:GLU:HG2	2:M:295:ASP:N	2.26	0.51
2:M:343:GLN:HE21	2:M:343:GLN:HA	1.76	0.51
2:M:842:ARG:NH2	2:M:993:PHE:HB3	2.26	0.51
3:N:116:LEU:HG	3:N:464:LEU:HD11	1.92	0.51
3:N:142:LEU:N	3:N:142:LEU:HD22	2.26	0.51
3:N:1132:LEU:H	3:N:1132:LEU:HD12	1.75	0.51
5:X:26:LEU:HD13	5:X:58:ASN:HB2	1.91	0.51
5:Y:19:LEU:HD11	5:Y:62:ILE:HD12	1.91	0.51
2:C:1096:ALA:O	2:C:1097:LEU:C	2.49	0.50
3:D:629:SER:OG	3:D:630:VAL:N	2.43	0.50
3:D:1183:ILE:N	3:D:1183:ILE:CD1	2.73	0.50
3:D:1245:GLY:O	3:D:1246:VAL:CG1	2.53	0.50
4:E:35:PHE:O	4:E:36:LYS:HG2	2.10	0.50
4:E:37:ASN:N	4:E:37:ASN:ND2	2.56	0.50
1:F:102:LYS:HB2	1:F:138:LEU:O	2.12	0.50
1:G:129:ILE:N	1:G:129:ILE:HD12	2.26	0.50
2:H:409:ARG:C	2:H:410:ILE:HD13	2.31	0.50
2:H:575:GLN:NE2	2:H:671:ASN:N	2.58	0.50
2:H:944:LEU:HD11	2:H:963:LEU:CD2	2.41	0.50
2:H:953:VAL:HG11	2:H:962:GLN:HB3	1.93	0.50
3:I:97:THR:HG22	3:I:554:LEU:HD21	1.93	0.50
3:I:185:VAL:HG21	3:I:191:LEU:HD21	1.93	0.50
4:J:23:VAL:HG22	4:J:68:LEU:CD2	2.41	0.50
4:J:59:ASN:HD21	4:J:61:VAL:HG23	1.77	0.50
1:K:43:ILE:HD12	1:L:32:PHE:CE2	2.46	0.50
1:L:44:LEU:O	1:L:174:VAL:HG21	2.11	0.50
2:M:520:GLU:O	2:M:522:VAL:HG23	2.10	0.50
2:M:971:LYS:HB3	2:M:986:PRO:HB3	1.92	0.50
3:N:1209:LEU:HD13	3:N:1215:VAL:HA	1.93	0.50
3:N:1268:PRO:HB2	3:N:1329:ALA:HB3	1.91	0.50
3:N:1468:LEU:HD22	3:N:1468:LEU:N	2.26	0.50
1:A:76:VAL:O	1:A:79:ILE:HG13	2.11	0.50
1:B:180:GLN:HB2	1:B:196:THR:OG1	2.11	0.50
2:C:15:LEU:HD12	2:C:15:LEU:N	2.21	0.50
2:C:54:ILE:CD1	2:C:355:VAL:HG13	2.41	0.50
2:C:217:LEU:H	2:C:217:LEU:HD12	1.75	0.50
2:C:516:ARG:HD2	3:D:1068:LEU:HD22	1.92	0.50
2:C:572:ILE:CG1	2:C:573:ARG:N	2.74	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:181:ASP:HB3	3:D:357:GLU:CD	2.31	0.50
3:D:601:ARG:HH22	3:D:611:GLN:NE2	2.10	0.50
3:D:786:ILE:HG21	3:D:1027:GLY:C	2.31	0.50
3:D:847:ASP:O	3:D:851:LEU:HG	2.11	0.50
1:G:54:THR:HG22	1:G:158:ILE:HB	1.92	0.50
2:H:44:ILE:CD1	2:H:44:ILE:N	2.74	0.50
2:H:140:ILE:C	2:H:140:ILE:HD12	2.32	0.50
2:H:431:HIS:CD2	2:H:433:THR:OG1	2.65	0.50
3:I:112:ILE:HD13	3:I:465:LEU:HD21	1.92	0.50
3:I:171:LEU:HD23	3:I:172:PRO:HD2	1.94	0.50
3:I:400:VAL:HG22	3:I:402:PRO:HD3	1.93	0.50
3:I:432:TYR:CB	3:I:450:TYR:HB2	2.41	0.50
3:I:608:SER:O	3:I:612:GLY:HA3	2.10	0.50
3:I:623:VAL:HG12	3:I:624:ASP:N	2.26	0.50
3:I:726:ILE:HD12	3:I:726:ILE:N	2.19	0.50
3:I:789:LEU:O	3:I:792:ILE:CG2	2.60	0.50
3:I:984:THR:HG22	3:I:987:GLU:OE1	2.10	0.50
3:I:1098:LEU:CD2	3:I:1226:ALA:HA	2.41	0.50
3:I:1213:ARG:HB2	3:I:1214:PRO:CD	2.41	0.50
3:I:1461:GLY:O	3:I:1464:GLU:HG3	2.11	0.50
1:K:79:ILE:HG13	1:K:80:LEU:N	2.26	0.50
1:K:218:LEU:HD23	1:L:222:LEU:CD1	2.39	0.50
2:M:198:ARG:HD2	2:M:228:ALA:O	2.11	0.50
3:N:153:LEU:CD1	3:N:158:TYR:HB2	2.41	0.50
3:N:365:ASP:O	3:N:379:ALA:HB2	2.11	0.50
3:N:493:ARG:CZ	3:N:1390:LEU:HB3	2.41	0.50
3:N:970:LYS:HG2	5:Z:113:LEU:HD22	1.91	0.50
5:Y:87:SER:OG	5:Y:154:ILE:HG22	2.11	0.50
2:C:265:ARG:HB3	2:C:267:TYR:CZ	2.45	0.50
2:C:396:ASP:OD2	2:C:402:SER:HB2	2.10	0.50
2:C:431:HIS:HB3	2:C:434:HIS:NE2	2.27	0.50
2:C:627:ARG:O	2:C:638:ASP:HA	2.11	0.50
2:C:637:LEU:HD23	2:C:659:PRO:CG	2.41	0.50
2:C:708:TYR:HB2	2:C:825:VAL:CG1	2.42	0.50
3:D:485:SER:O	3:D:489:ARG:HB3	2.10	0.50
3:D:585:GLY:O	3:D:587:ARG:N	2.44	0.50
3:D:862:ASP:O	3:D:864:VAL:HG23	2.10	0.50
3:D:1072:ILE:HA	3:D:1075:HIS:CD2	2.46	0.50
1:F:48:ILE:HG22	1:F:173:PRO:HD2	1.93	0.50
1:F:57:TYR:HB3	1:F:141:GLU:CG	2.41	0.50
2:H:176:VAL:O	2:H:176:VAL:HG23	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:1041:GLU:HB2	3:I:1223:ILE:CD1	2.41	0.50
2:H:1086:ARG:NH1	2:H:1111:ILE:O	2.44	0.50
3:I:415:VAL:CG1	3:I:419:ASP:HB2	2.41	0.50
3:I:729:HIS:CE1	3:I:731:LEU:H	2.26	0.50
3:I:790:TYR:HE1	3:I:794:GLN:NE2	2.10	0.50
3:I:1167:SER:O	3:I:1171:VAL:HG23	2.12	0.50
4:J:41:GLU:O	4:J:45:ARG:HD2	2.12	0.50
4:J:54:LEU:CG	4:J:58:PRO:CG	2.85	0.50
1:K:36:LEU:O	1:K:39:PRO:HD2	2.11	0.50
1:K:38:ASN:HB3	1:K:39:PRO:HD3	1.93	0.50
1:K:56:VAL:HG23	1:K:165:ILE:HD11	1.93	0.50
1:L:52:ALA:CB	1:L:170:VAL:H	2.24	0.50
1:L:99:LEU:C	1:L:100:LEU:HD23	2.32	0.50
1:L:205:VAL:HB	1:L:209:GLU:OE2	2.11	0.50
2:M:21:ILE:H	2:M:21:ILE:HD12	1.75	0.50
2:M:22:GLN:OE1	2:M:336:VAL:CG2	2.59	0.50
2:M:304:LEU:HD11	2:M:308:ARG:HH21	1.75	0.50
2:M:310:LEU:O	2:M:314:THR:HG23	2.12	0.50
2:M:568:ALA:HB2	2:M:995:MET:HE1	1.93	0.50
2:M:714:ASP:OD1	2:M:719:PRO:HG3	2.11	0.50
3:N:119:SER:H	3:N:123:LEU:HD22	1.77	0.50
5:Y:73:VAL:HG12	5:Y:74:ILE:H	1.77	0.50
1:A:7:LYS:NZ	1:A:27:PRO:HD2	2.26	0.50
1:A:153:ALA:HB2	1:A:168:ASP:OD1	2.11	0.50
1:B:56:VAL:O	1:B:165:ILE:CD1	2.59	0.50
2:C:136:ILE:HD12	2:C:136:ILE:N	2.26	0.50
2:C:367:LEU:HB2	2:C:371:LYS:HG2	1.93	0.50
2:C:572:ILE:HG22	2:C:703:ILE:CD1	2.42	0.50
2:C:575:GLN:N	2:C:667:ALA:HB1	2.27	0.50
2:C:722:ILE:CD1	2:C:740:GLU:O	2.60	0.50
2:C:838:LYS:C	2:C:839:LEU:HD23	2.32	0.50
3:D:717:GLN:NE2	3:D:718:PRO:O	2.45	0.50
3:D:736:PHE:O	3:D:738:ALA:N	2.45	0.50
3:D:820:GLU:HG3	3:D:836:VAL:HG21	1.93	0.50
3:D:875:THR:HG22	3:D:879:ARG:HG3	1.94	0.50
3:D:1123:PHE:CD2	3:D:1184:GLN:HG3	2.47	0.50
3:D:1209:LEU:HD11	4:E:16:LYS:NZ	2.26	0.50
3:D:1241:PHE:CD1	3:D:1241:PHE:C	2.84	0.50
2:H:368:THR:CB	2:H:369:PRO:HD3	2.42	0.50
2:H:926:PHE:HE1	2:H:929:ARG:HE	1.59	0.50
3:I:1066:THR:HG22	3:I:1069:GLU:OE1	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:1258:ARG:O	3:I:1262:LEU:HD13	2.10	0.50
3:I:1283:ILE:HD12	3:I:1292:VAL:HG22	1.94	0.50
3:I:1481:VAL:O	3:I:1481:VAL:HG12	2.12	0.50
1:K:80:LEU:HD23	1:K:81:ASN:CG	2.31	0.50
2:M:474:VAL:HG23	2:M:478:VAL:O	2.10	0.50
2:M:864:GLY:O	2:M:865:THR:C	2.50	0.50
2:M:943:VAL:HG13	2:M:944:LEU:N	2.25	0.50
3:N:98:PRO:HG2	3:N:462:GLN:HE22	1.76	0.50
3:N:968:ASP:O	3:N:971:LEU:HG	2.11	0.50
4:O:48:MET:HG3	4:O:49:GLN:H	1.75	0.50
5:X:45:ASN:HB3	5:X:48:TYR:HB2	1.92	0.50
5:Z:116:PRO:HD2	5:Z:118:LYS:HZ1	1.73	0.50
1:B:26:GLU:HB2	1:B:193:ASP:O	2.12	0.50
1:B:127:LEU:HD23	1:B:128:HIS:N	2.27	0.50
2:C:52:PHE:CD2	2:C:68:PHE:HB2	2.47	0.50
2:C:350:ARG:CG	2:C:353:ARG:HH21	2.23	0.50
2:C:428:ARG:CZ	2:C:451:LEU:HD21	2.42	0.50
3:D:102:ILE:CD1	3:D:586:ARG:HG3	2.41	0.50
3:D:108:VAL:CB	3:D:109:PRO:HD3	2.24	0.50
3:D:141:ILE:CD1	3:D:448:GLU:HG3	2.40	0.50
3:D:586:ARG:HH22	3:D:1444:THR:HG21	1.76	0.50
3:D:900:ILE:HD11	3:D:902:LEU:HD22	1.94	0.50
3:D:982:PHE:CD1	5:X:117:MET:HE2	2.46	0.50
3:D:1252:ILE:HD11	3:D:1258:ARG:CZ	2.41	0.50
3:D:1496:GLU:OE2	3:D:1499:ARG:HD2	2.12	0.50
1:F:56:VAL:HG12	1:F:140:MET:HB2	1.93	0.50
1:F:64:GLU:CA	1:F:75:VAL:HG11	2.32	0.50
1:F:98:THR:HG23	1:F:143:ARG:HA	1.93	0.50
1:F:109:VAL:HG12	1:F:129:ILE:HD12	1.94	0.50
1:G:36:LEU:HD23	1:G:36:LEU:N	2.27	0.50
1:G:179:PHE:N	1:G:179:PHE:HD2	2.10	0.50
2:H:332:ARG:NE	2:H:464:LEU:HD23	2.26	0.50
2:H:550:LEU:HG	3:I:1070:TYR:HE1	1.77	0.50
2:H:561:GLY:HA2	2:H:564:MET:HB2	1.93	0.50
2:H:726:ILE:C	2:H:728:HIS:H	2.15	0.50
3:I:141:ILE:HG23	3:I:448:GLU:CD	2.32	0.50
1:L:13:VAL:HG12	1:L:14:ARG:H	1.76	0.50
1:L:97:VAL:HG11	1:L:120:VAL:HG21	1.92	0.50
2:M:98:LEU:N	2:M:98:LEU:CD1	2.74	0.50
2:M:157:ARG:HD3	2:M:314:THR:HB	1.92	0.50
2:M:174:LEU:HD22	2:M:193:LEU:HD21	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:191:PHE:HZ	2:M:196:LEU:HD12	1.77	0.50
2:M:430:VAL:HG13	3:N:1075:HIS:ND1	2.26	0.50
2:M:465:GLY:O	2:M:466:PHE:C	2.50	0.50
2:M:637:LEU:HD23	2:M:659:PRO:HG2	1.94	0.50
3:N:162:ARG:HG3	3:N:163:TYR:HD2	1.76	0.50
3:N:496:LEU:O	3:N:499:VAL:HB	2.11	0.50
3:N:1392:GLY:O	3:N:1393:GLN:NE2	2.44	0.50
3:N:1404:ASN:CA	3:N:1408:ILE:HD13	2.39	0.50
5:Z:7:LEU:HD11	5:Z:108:ALA:CB	2.41	0.50
1:A:85:LEU:HD12	1:A:124:ASN:CB	2.36	0.50
1:A:209:GLU:O	1:A:213:GLN:HG3	2.11	0.50
1:B:100:LEU:HD23	1:B:115:LEU:CD2	2.37	0.50
1:B:108:GLU:HG2	1:B:131:THR:CG2	2.42	0.50
2:C:283:ILE:HG22	2:C:284:ARG:N	2.26	0.50
2:C:937:ASP:HB3	2:C:940:GLU:HG3	1.93	0.50
2:C:953:VAL:O	2:C:955:PRO:HD3	2.12	0.50
3:D:102:ILE:CD1	3:D:106:LYS:HB2	2.41	0.50
3:D:166:GLN:C	3:D:166:GLN:OE1	2.50	0.50
3:D:786:ILE:N	3:D:786:ILE:HD12	2.26	0.50
3:D:1238:MET:O	3:D:1239:ARG:HB2	2.12	0.50
3:D:1492:LEU:HD12	3:D:1493:LYS:NZ	2.26	0.50
2:H:44:ILE:N	2:H:44:ILE:HD12	2.26	0.50
2:H:261:ILE:CG1	2:H:262:ALA:N	2.72	0.50
2:H:472:ARG:O	2:H:531:PHE:HA	2.11	0.50
2:H:572:ILE:HD12	2:H:573:ARG:N	2.18	0.50
2:H:1000:MET:HB3	2:H:1002:GLU:HG2	1.93	0.50
3:I:655:PRO:O	3:I:658:LEU:HB2	2.11	0.50
3:I:1229:ILE:O	3:I:1232:PRO:HD2	2.12	0.50
2:M:89:THR:OG1	2:M:91:GLN:NE2	2.44	0.50
2:M:221:LEU:HD12	2:M:222:MET:H	1.76	0.50
2:M:391:LEU:HD23	2:M:391:LEU:C	2.32	0.50
2:M:572:ILE:HG12	2:M:573:ARG:H	1.76	0.50
2:M:1008:ARG:HH22	2:M:1011:GLY:H	1.60	0.50
3:N:638:LYS:N	3:N:641:GLN:HE22	1.98	0.50
3:N:804:LEU:HD11	3:N:830:ALA:O	2.12	0.50
3:N:848:GLU:HA	3:N:851:LEU:CD1	2.41	0.50
5:Y:5:VAL:O	5:Y:73:VAL:HG23	2.11	0.50
5:Z:29:ILE:HD12	5:Z:58:ASN:HD21	1.74	0.50
1:A:50:GLY:H	1:A:171:PHE:HB3	1.76	0.50
1:B:153:ALA:HB2	1:B:168:ASP:N	2.27	0.50
2:C:274:ARG:HG2	2:C:285:LEU:HB3	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:421:GLU:HG3	2:C:422:ARG:HH11	1.76	0.50
2:C:472:ARG:NH1	2:C:532:MET:HE2	2.26	0.50
2:C:477:GLY:HA2	2:C:508:ILE:HD12	1.92	0.50
2:C:630:ARG:NH2	2:C:707:ARG:N	2.56	0.50
2:C:876:VAL:N	2:C:877:PRO:CD	2.73	0.50
3:D:31:THR:HA	3:D:44:LEU:HD13	1.93	0.50
3:D:470:LEU:HB2	3:D:503:LEU:HD21	1.93	0.50
3:D:644:LEU:HD12	3:D:645:PRO:CD	2.39	0.50
3:D:673:ALA:HA	3:D:676:MET:CG	2.38	0.50
3:D:792:ILE:HG12	3:D:878:GLY:HA2	1.94	0.50
3:D:1109:GLU:CG	3:D:1201:CYS:HA	2.42	0.50
3:D:1434:TRP:CE3	3:D:1457:ASP:HB2	2.46	0.50
1:F:177:VAL:CG1	1:F:178:ALA:N	2.75	0.50
2:H:100:LEU:O	2:H:107:LEU:HD12	2.11	0.50
2:H:471:TYR:H	2:H:483:VAL:CG1	2.23	0.50
3:I:133:ILE:HG22	3:I:454:ALA:HB1	1.93	0.50
3:I:637:LEU:CD2	3:I:642:CYS:HA	2.35	0.50
3:I:675:ARG:HA	3:I:678:GLU:HB2	1.92	0.50
3:I:1044:LEU:HG	3:I:1056:PRO:HA	1.93	0.50
3:I:1071:PHE:CE1	3:I:1075:HIS:HE1	2.29	0.50
3:I:1153:VAL:HG12	3:I:1155:VAL:HG22	1.94	0.50
3:I:1425:THR:O	3:I:1429:LEU:HD13	2.11	0.50
2:M:66:LEU:HD22	2:M:99:GLN:O	2.12	0.50
2:M:129:ILE:HG22	2:M:130:ASN:N	2.26	0.50
2:M:144:PRO:HB2	2:M:265:ARG:HD3	1.94	0.50
2:M:200:LEU:HD13	2:M:300:ASP:OD2	2.12	0.50
2:M:471:TYR:N	2:M:483:VAL:HG13	2.27	0.50
2:M:588:VAL:HG23	2:M:596:TYR:OH	2.12	0.50
2:M:752:GLY:O	2:M:791:ARG:NH1	2.45	0.50
2:M:1032:PHE:CZ	2:M:1040:LEU:HD22	2.34	0.50
3:N:1173:LEU:C	3:N:1173:LEU:HD12	2.33	0.50
4:O:68:LEU:HA	4:O:73:LEU:CD2	2.41	0.50
5:Y:144:LYS:HE2	5:Y:147:ARG:HD2	1.93	0.50
1:A:229:GLN:NE2	1:B:12:THR:HG22	2.27	0.50
2:C:406:HIS:ND1	2:C:409:ARG:HD2	2.27	0.50
2:C:861:LEU:HA	2:C:974:LEU:HD12	1.94	0.50
2:C:1095:LEU:HG	2:C:1095:LEU:O	2.12	0.50
3:D:552:ASN:O	3:D:556:LYS:HG3	2.12	0.50
3:D:630:VAL:O	3:D:725:SER:HB2	2.11	0.50
3:D:1008:PHE:O	3:D:1012:GLU:HB2	2.11	0.50
3:D:1434:TRP:CZ3	3:D:1457:ASP:HB2	2.47	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:109:VAL:HG21	1:F:130:ALA:HB3	1.93	0.50
1:F:198:ARG:C	1:F:199:ILE:HD13	2.32	0.50
1:F:221:HIS:HA	1:F:224:TYR:CD2	2.46	0.50
2:H:68:PHE:HZ	2:H:71:TYR:HD2	1.58	0.50
2:H:332:ARG:HE	2:H:464:LEU:HD23	1.77	0.50
2:H:551:GLU:HB3	2:H:906:PHE:HD2	1.76	0.50
2:H:1099:VAL:HA	3:I:9:ARG:O	2.12	0.50
3:I:11:ALA:HA	3:I:1451:ALA:O	2.12	0.50
3:I:171:LEU:HD12	3:I:392:SER:HA	1.93	0.50
3:I:907:GLU:O	3:I:908:LYS:C	2.50	0.50
3:I:1196:THR:O	3:I:1197:ARG:C	2.50	0.50
2:M:2:GLU:CD	2:M:2:GLU:H	2.15	0.50
2:M:204:GLN:HB3	2:M:222:MET:CE	2.42	0.50
2:M:384:GLU:HA	2:M:388:ARG:HD2	1.94	0.50
2:M:892:LEU:CD1	2:M:989:VAL:HG23	2.40	0.50
2:M:1046:ALA:HB3	3:N:1476:THR:OG1	2.12	0.50
3:N:1323:GLN:O	3:N:1325:LEU:HD13	2.12	0.50
1:A:206:THR:HG23	1:A:208:LEU:H	1.77	0.50
1:B:21:GLY:O	1:B:198:ARG:HA	2.11	0.50
2:C:884:GLN:HG3	2:C:885:ILE:N	2.26	0.50
2:C:1073:GLY:N	3:D:659:LYS:HD3	2.26	0.50
2:C:1086:ARG:CB	2:C:1086:ARG:HH11	2.25	0.50
2:C:1095:LEU:N	2:C:1095:LEU:HD23	2.27	0.50
3:D:119:SER:HB2	3:D:123:LEU:H	1.75	0.50
3:D:138:LYS:HD2	3:D:138:LYS:O	2.12	0.50
3:D:206:ARG:C	3:D:207:PHE:HD1	2.15	0.50
3:D:394:LEU:N	3:D:394:LEU:HD23	2.27	0.50
3:D:710:ARG:CG	3:D:711:LEU:N	2.73	0.50
3:D:828:LYS:HG2	3:D:863:VAL:CG2	2.39	0.50
3:D:1330:ILE:HD13	3:D:1347:TYR:HE1	1.77	0.50
1:F:109:VAL:HB	1:F:130:ALA:O	2.12	0.50
1:G:97:VAL:HG11	1:G:120:VAL:HG11	1.94	0.50
2:H:168:ARG:NH1	2:H:262:ALA:HB3	2.27	0.50
2:H:173:ASP:O	2:H:174:LEU:HD23	2.12	0.50
2:H:211:LEU:HD11	2:H:307:LEU:HD23	1.93	0.50
2:H:224:GLU:OE1	2:H:226:VAL:HG12	2.11	0.50
2:H:242:LEU:HD11	2:H:254:VAL:HG11	1.94	0.50
3:I:711:LEU:HD21	3:I:768:ASN:HB3	1.94	0.50
3:I:838:ARG:HA	3:I:864:VAL:HA	1.93	0.50
3:I:860:LEU:HD23	3:I:860:LEU:H	1.76	0.50
3:I:1283:ILE:HG22	3:I:1284:GLU:H	1.75	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:1289:LYS:HD2	3:I:1304:LYS:NZ	2.27	0.50
1:K:67:THR:CG2	2:M:609:ASN:HD21	2.25	0.50
1:L:215:VAL:HG23	1:L:216:GLU:N	2.26	0.50
2:M:352:ALA:HA	2:M:355:VAL:HG12	1.93	0.50
2:M:395:LYS:HG2	2:M:397:GLU:HG2	1.94	0.50
2:M:435:TYR:CE2	2:M:516:ARG:HD3	2.47	0.50
3:N:139:GLY:H	3:N:147:VAL:HG23	1.77	0.50
3:N:897:TRP:HA	3:N:900:ILE:CD1	2.41	0.50
3:N:1346:ARG:HG3	3:N:1346:ARG:NH1	2.27	0.50
5:Y:52:ARG:O	5:Y:53:ARG:C	2.50	0.50
1:A:52:ALA:HB2	1:A:170:VAL:HG22	1.92	0.49
1:B:189:ARG:HG3	1:B:192:LEU:HD21	1.94	0.49
2:C:162:ILE:HG22	2:C:172:ILE:HD13	1.94	0.49
2:C:333:ILE:H	2:C:465:GLY:HA3	1.76	0.49
2:C:369:PRO:O	2:C:373:VAL:HG23	2.12	0.49
2:C:1031:ARG:HG2	2:C:1032:PHE:H	1.76	0.49
3:D:156:GLU:HG2	3:D:159:ARG:HH21	1.76	0.49
3:D:421:LEU:HD12	3:D:427:VAL:HG12	1.92	0.49
3:D:764:LEU:HB3	3:D:767:HIS:CD2	2.47	0.49
3:D:1379:VAL:HG23	3:D:1380:GLU:N	2.26	0.49
3:D:1426:LYS:HD3	3:D:1429:LEU:CD2	2.41	0.49
2:H:20:GLU:HA	2:H:23:VAL:HB	1.92	0.49
2:H:141:HIS:CB	2:H:418:LEU:HD23	2.42	0.49
2:H:165:LEU:HB3	2:H:265:ARG:NE	2.25	0.49
2:H:313:LEU:CD1	2:H:314:THR:HG23	2.42	0.49
2:H:801:VAL:O	2:H:801:VAL:CG2	2.60	0.49
2:H:1052:MET:CG	3:I:623:VAL:HG11	2.34	0.49
3:I:496:LEU:O	3:I:499:VAL:HB	2.12	0.49
3:I:639:LEU:HD22	3:I:639:LEU:C	2.32	0.49
3:I:644:LEU:C	3:I:721:VAL:HG23	2.32	0.49
3:I:1256:LEU:N	3:I:1257:PRO:CD	2.74	0.49
1:K:112:ARG:HE	1:K:125:PRO:CB	2.11	0.49
1:L:58:ILE:HG13	1:L:140:MET:CB	2.41	0.49
1:L:185:ARG:HG2	1:L:186:LEU:H	1.75	0.49
2:M:408:ARG:NH2	2:M:455:LEU:HD11	2.27	0.49
2:M:607:ASP:HB3	2:M:610:ARG:HG2	1.93	0.49
2:M:670:GLN:HB2	2:M:700:TYR:HE1	1.76	0.49
2:M:1006:HIS:CE1	2:M:1028:GLY:H	2.29	0.49
3:N:799:LYS:HG2	3:N:800:LYS:N	2.27	0.49
3:N:1381:VAL:HG22	3:N:1398:TRP:CZ2	2.47	0.49
3:N:1401:GLU:O	3:N:1405:GLU:HB3	2.11	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:106:PRO:HG3	1:A:133:GLU:O	2.12	0.49
1:A:183:ASP:HA	2:C:938:LYS:HZ3	1.77	0.49
1:B:87:VAL:HG23	1:B:88:ARG:N	2.26	0.49
2:C:22:GLN:HB3	2:C:121:MET:CE	2.21	0.49
2:C:706:GLU:O	2:C:827:VAL:HG12	2.12	0.49
2:C:1076:VAL:CG2	3:D:752:SER:HA	2.41	0.49
3:D:145:VAL:HG22	3:D:146:PRO:HD2	1.92	0.49
3:D:162:ARG:HE	3:D:452:ILE:HG23	1.76	0.49
3:D:210:ARG:NH1	3:D:210:ARG:HB3	2.27	0.49
3:D:355:VAL:HG12	3:D:356:PRO:HD2	1.94	0.49
3:D:774:SER:C	3:D:776:GLU:H	2.14	0.49
3:D:832:ARG:HA	3:D:832:ARG:NE	2.27	0.49
3:D:1035:ILE:HA	3:D:1038:LEU:HD12	1.95	0.49
3:D:1192:LEU:HD21	3:D:1369:GLU:CB	2.36	0.49
4:E:27:ALA:HB1	4:E:60:ALA:HB1	1.93	0.49
1:G:58:ILE:HB	1:G:61:VAL:HG23	1.93	0.49
1:G:153:ALA:HB2	1:G:167:VAL:C	2.31	0.49
2:H:610:ARG:O	2:H:611:ILE:HD13	2.12	0.49
2:H:719:PRO:HB2	2:H:820:ARG:NH1	2.26	0.49
3:I:169:TYR:CE1	3:I:395:VAL:HG12	2.45	0.49
3:I:407:VAL:HG13	3:I:444:VAL:HG21	1.94	0.49
1:L:44:LEU:HD13	1:L:177:VAL:HG11	1.93	0.49
1:L:153:ALA:HB2	1:L:168:ASP:N	2.27	0.49
2:M:183:SER:C	2:M:193:LEU:HD11	2.33	0.49
2:M:703:ILE:HD13	2:M:830:LYS:HA	1.94	0.49
2:M:1033:GLY:O	2:M:1037:VAL:HG23	2.11	0.49
2:M:1050:GLN:HA	2:M:1053:LEU:HD21	1.93	0.49
2:M:1081:VAL:HG13	2:M:1085:PHE:HB3	1.94	0.49
3:N:25:GLU:HG3	3:N:92:HIS:O	2.11	0.49
3:N:122:GLU:O	3:N:126:VAL:HG23	2.12	0.49
3:N:642:CYS:SG	3:N:716:PHE:CB	2.99	0.49
3:N:1155:VAL:HG21	3:N:1183:ILE:HG12	1.93	0.49
5:Y:111:ASN:OD1	5:Y:113:LEU:HD12	2.11	0.49
1:A:178:ALA:HB2	2:C:864:GLY:N	2.27	0.49
1:B:66:SER:O	1:B:75:VAL:HG23	2.12	0.49
2:C:211:LEU:HG	2:C:212:GLY:N	2.27	0.49
2:C:502:PRO:HB2	2:C:509:ALA:CB	2.42	0.49
2:C:609:ASN:O	2:C:625:LEU:HG	2.12	0.49
2:C:959:PRO:O	2:C:963:LEU:HG	2.12	0.49
2:C:1067:TYR:CE2	2:C:1071:ILE:HG13	2.47	0.49
3:D:26:VAL:CG1	3:D:49:ILE:HD12	2.42	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:461:ILE:HD13	3:D:461:ILE:N	2.26	0.49
3:D:592:THR:HB	3:D:596:SER:HB3	1.94	0.49
3:D:627:GLY:C	3:D:747:VAL:HG12	2.33	0.49
3:D:659:LYS:HE3	3:D:663:GLU:OE1	2.13	0.49
3:D:925:GLU:OE2	4:E:6:ILE:HG22	2.13	0.49
3:D:1406:ARG:HD2	3:D:1412:LYS:CD	2.42	0.49
4:E:45:ARG:HH11	4:E:55:PHE:HB3	1.76	0.49
2:H:52:PHE:CG	2:H:68:PHE:HB2	2.47	0.49
2:H:585:GLU:HA	2:H:664:GLY:O	2.12	0.49
3:I:123:LEU:CD1	3:I:152:LEU:HD11	2.42	0.49
3:I:1253:THR:OG1	3:I:1258:ARG:HD3	2.13	0.49
3:I:1492:LEU:HD13	3:I:1492:LEU:C	2.32	0.49
4:J:54:LEU:CG	4:J:58:PRO:HG3	2.38	0.49
1:K:44:LEU:HA	1:K:48:ILE:CD1	2.41	0.49
1:K:44:LEU:C	1:K:45:LEU:HD12	2.33	0.49
2:M:55:GLU:HA	2:M:64:LEU:O	2.11	0.49
2:M:264:PRO:CB	2:M:289:THR:HB	2.42	0.49
2:M:331:ARG:NH2	2:M:427:VAL:HG11	2.28	0.49
2:M:410:ILE:HD11	2:M:455:LEU:HB3	1.93	0.49
2:M:461:VAL:HG12	2:M:462:ASP:N	2.27	0.49
2:M:584:GLU:HB2	2:M:666:LEU:H	1.77	0.49
2:M:928:LYS:HA	2:M:928:LYS:HZ2	1.76	0.49
2:M:1008:ARG:HG2	2:M:1009:SER:N	2.27	0.49
2:M:1087:VAL:HG22	2:M:1091:GLU:CD	2.32	0.49
3:N:459:GLU:HA	3:N:462:GLN:HE21	1.77	0.49
3:N:640:HIS:HB3	3:N:641:GLN:OE1	2.12	0.49
3:N:1274:ILE:HG22	3:N:1323:GLN:C	2.33	0.49
3:N:1398:TRP:HZ3	3:N:1415:VAL:HB	1.77	0.49
5:Y:111:ASN:OD1	5:Y:113:LEU:HB2	2.12	0.49
2:C:953:VAL:HG11	2:C:962:GLN:HG2	1.93	0.49
3:D:403:PHE:HD2	3:D:443:VAL:HA	1.78	0.49
3:D:804:LEU:HD21	3:D:831:GLY:N	2.27	0.49
3:D:850:LEU:HD21	3:D:884:ARG:NH2	2.28	0.49
3:D:1044:LEU:HG	3:D:1056:PRO:HA	1.94	0.49
3:D:1114:THR:HG21	3:D:1193:THR:O	2.12	0.49
4:E:47:LYS:HG2	4:E:55:PHE:HE2	1.77	0.49
2:H:5:ARG:HA	2:H:902:ILE:O	2.11	0.49
2:H:31:GLN:HG3	2:H:40:GLU:CG	2.41	0.49
2:H:114:PHE:C	2:H:115:LEU:HD23	2.31	0.49
2:H:151:ASP:OD1	2:H:154:ARG:HB3	2.13	0.49
2:H:261:ILE:O	2:H:266:ARG:CZ	2.60	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:473:ARG:HA	2:H:531:PHE:CD1	2.47	0.49
2:H:498:GLN:HA	2:H:533:ASP:OD2	2.12	0.49
3:I:126:VAL:HG12	3:I:132:TYR:CG	2.46	0.49
3:I:206:ARG:HG3	3:I:207:PHE:HD1	1.77	0.49
3:I:436:GLU:O	3:I:436:GLU:HG3	2.12	0.49
3:I:436:GLU:HG3	3:I:445:ARG:HG3	1.93	0.49
3:I:676:MET:C	3:I:677:LEU:HD22	2.32	0.49
3:I:1135:ARG:HH21	3:I:1139:ASP:HB3	1.76	0.49
3:I:1289:LYS:HD2	3:I:1304:LYS:HZ3	1.76	0.49
4:J:27:ALA:O	4:J:30:LEU:HB2	2.13	0.49
1:L:30:ARG:HB3	1:L:30:ARG:NH1	2.28	0.49
1:L:62:LEU:HD12	1:L:63:HIS:N	2.27	0.49
2:M:302:VAL:HG22	2:M:303:PHE:HD1	1.78	0.49
2:M:737:LEU:HD21	2:M:755:LEU:O	2.13	0.49
3:N:205:TYR:C	3:N:205:TYR:CD2	2.84	0.49
3:N:390:PRO:HB2	3:N:393:ILE:CD1	2.38	0.49
3:N:453:ASP:O	3:N:454:ALA:HB2	2.11	0.49
3:N:563:PRO:HB2	3:N:566:ILE:CG1	2.42	0.49
3:N:875:THR:HG23	3:N:876:SER:N	2.26	0.49
5:X:92:GLU:OE2	5:X:99:ARG:HG2	2.11	0.49
5:X:111:ASN:OD1	5:X:113:LEU:HB2	2.12	0.49
1:A:73:GLU:O	1:A:78:ILE:HD11	2.11	0.49
1:A:151:VAL:H	1:A:169:ALA:HB3	1.77	0.49
1:B:90:LEU:HD22	1:B:119:ASP:OD2	2.13	0.49
2:C:261:ILE:HG22	2:C:262:ALA:N	2.28	0.49
2:C:630:ARG:HG2	2:C:707:ARG:CD	2.42	0.49
2:C:707:ARG:HG2	2:C:826:TYR:CD1	2.47	0.49
3:D:36:THR:C	3:D:38:LYS:H	2.16	0.49
3:D:44:LEU:HD12	3:D:44:LEU:N	2.24	0.49
1:F:44:LEU:C	1:F:45:LEU:HD12	2.32	0.49
1:F:58:ILE:HD12	1:F:58:ILE:N	2.27	0.49
1:F:215:VAL:O	1:F:218:LEU:HB3	2.12	0.49
2:H:157:ARG:HG3	2:H:314:THR:HG22	1.95	0.49
3:I:28:LYS:HG2	3:I:41:ARG:HH21	1.78	0.49
3:I:135:LEU:HD21	3:I:147:VAL:CG2	2.42	0.49
3:I:505:SER:OG	3:I:1453:ALA:HA	2.13	0.49
3:I:664:LYS:C	3:I:666:ILE:H	2.16	0.49
3:I:871:LYS:HE2	3:I:871:LYS:N	2.28	0.49
3:I:1147:ARG:HB3	3:I:1188:VAL:CG2	2.37	0.49
3:I:1460:ILE:HD13	3:I:1460:ILE:H	1.78	0.49
1:L:90:LEU:HB3	1:L:119:ASP:CB	2.42	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:300:ASP:OD2	2:M:303:PHE:HB2	2.13	0.49
2:M:479:VAL:HG21	2:M:503:LEU:HD11	1.95	0.49
2:M:983:ILE:HG13	2:M:987:ILE:HD11	1.95	0.49
3:N:155:ASP:HA	3:N:158:TYR:HB3	1.94	0.49
3:N:550:ARG:CG	3:N:553:ARG:HH21	2.25	0.49
5:Y:3:ARG:N	5:Y:71:ARG:NH1	2.60	0.49
5:Z:89:VAL:HG12	5:Z:90:GLU:N	2.28	0.49
2:C:257:VAL:HG12	2:C:263:ASP:CG	2.33	0.49
2:C:258:TYR:CE2	2:C:264:PRO:HG3	2.47	0.49
2:C:703:ILE:HD12	2:C:703:ILE:N	2.27	0.49
2:C:1006:HIS:O	3:D:627:GLY:HA2	2.13	0.49
3:D:31:THR:CG2	3:D:44:LEU:HD13	2.43	0.49
3:D:87:ARG:HA	3:D:521:PRO:HB3	1.93	0.49
3:D:109:PRO:O	3:D:111:LYS:N	2.46	0.49
3:D:702:LEU:HD13	3:D:716:PHE:CD1	2.48	0.49
3:D:705:ALA:HB3	3:D:706:PRO:CD	2.35	0.49
3:D:881:LEU:O	3:D:885:ILE:HG12	2.12	0.49
3:D:1040:GLY:O	3:D:1060:SER:HB3	2.13	0.49
3:D:1129:THR:O	3:D:1131:SER:N	2.45	0.49
3:D:1209:LEU:HD23	3:D:1210:SER:N	2.28	0.49
3:D:1209:LEU:C	3:D:1211:MET:H	2.15	0.49
3:D:1345:GLU:CD	3:D:1376:MET:SD	2.90	0.49
1:F:152:PRO:HB2	1:F:155:LYS:HB2	1.95	0.49
1:F:165:ILE:H	1:F:165:ILE:CD1	2.19	0.49
2:H:466:PHE:HD1	2:H:466:PHE:H	1.61	0.49
2:H:508:ILE:CD1	2:H:529:VAL:HG21	2.41	0.49
2:H:810:ASP:HB3	2:H:813:VAL:HG12	1.95	0.49
2:H:1045:ALA:HB1	2:H:1048:THR:CB	2.40	0.49
1:K:42:ARG:HD3	1:L:35:THR:HG23	1.92	0.49
1:L:179:PHE:HB3	1:L:197:LEU:HG	1.95	0.49
2:M:149:THR:HG22	2:M:159:ILE:HD11	1.94	0.49
2:M:281:LEU:HD12	2:M:306:THR:HA	1.93	0.49
2:M:281:LEU:CD1	2:M:306:THR:HA	2.43	0.49
2:M:508:ILE:HD12	2:M:526:PRO:HB3	1.94	0.49
2:M:744:ARG:CG	2:M:747:ALA:HB2	2.42	0.49
3:N:767:HIS:NE2	4:O:6:ILE:HD12	2.27	0.49
3:N:966:GLU:O	3:N:970:LYS:HE2	2.12	0.49
1:B:52:ALA:HB1	1:B:170:VAL:H	1.76	0.49
2:C:251:ASP:O	2:C:253:ALA:N	2.42	0.49
2:C:260:LEU:HB2	2:C:291:ALA:HB1	1.93	0.49
2:C:585:GLU:HA	2:C:664:GLY:O	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:627:ARG:H	2:C:627:ARG:HD3	1.77	0.49
2:C:810:ASP:HB3	2:C:813:VAL:HG12	1.93	0.49
2:C:861:LEU:CD1	2:C:862:PRO:HD2	2.42	0.49
2:C:997:LEU:N	2:C:997:LEU:CD2	2.74	0.49
2:C:1090:LYS:HA	2:C:1093:GLN:HG3	1.94	0.49
3:D:140:ALA:HB1	3:D:432:TYR:CZ	2.48	0.49
3:D:522:PRO:O	3:D:524:LEU:N	2.45	0.49
2:H:411:SER:OG	2:H:413:LEU:HG	2.13	0.49
2:H:861:LEU:HG	2:H:862:PRO:HD2	1.94	0.49
3:I:211:VAL:HG13	3:I:387:LEU:HD23	1.93	0.49
3:I:355:VAL:CG2	3:I:356:PRO:HD2	2.43	0.49
3:I:613:ARG:NH1	3:I:616:GLN:HG2	2.28	0.49
3:I:781:PRO:HB2	3:I:786:ILE:HD11	1.94	0.49
3:I:1336:LEU:O	3:I:1340:GLY:HA2	2.12	0.49
4:J:74:VAL:HG12	4:J:75:PHE:N	2.28	0.49
4:J:83:ASP:C	4:J:85:LEU:H	2.16	0.49
1:L:123:MET:CE	1:L:123:MET:H	2.26	0.49
1:L:218:LEU:O	1:L:222:LEU:HG	2.11	0.49
2:M:340:MET:C	2:M:340:MET:SD	2.91	0.49
2:M:412:ALA:HB1	2:M:419:THR:HG21	1.94	0.49
2:M:953:VAL:HG11	2:M:962:GLN:CB	2.43	0.49
3:N:31:THR:HB	3:N:45:PHE:HE2	1.78	0.49
3:N:710:ARG:C	3:N:712:GLY:H	2.16	0.49
3:N:800:LYS:HD3	3:N:830:ALA:HB3	1.94	0.49
3:N:1146:GLY:HA2	3:N:1207:TYR:HB2	1.95	0.49
3:N:1149:LEU:HD11	3:N:1160:LEU:O	2.13	0.49
3:N:1211:MET:SD	3:N:1213:ARG:HG2	2.53	0.49
3:N:1346:ARG:HH12	3:N:1350:GLU:HB2	1.78	0.49
1:A:24:VAL:HG22	1:A:196:THR:CG2	2.43	0.49
1:A:43:ILE:HG23	1:B:32:PHE:CZ	2.47	0.49
1:A:205:VAL:HB	1:A:209:GLU:HB2	1.94	0.49
1:B:83:LYS:HZ2	1:B:167:VAL:CG1	2.26	0.49
2:C:44:ILE:HD12	2:C:44:ILE:N	2.28	0.49
2:C:98:LEU:HD13	2:C:98:LEU:N	2.28	0.49
2:C:165:LEU:HB3	2:C:265:ARG:CZ	2.42	0.49
2:C:496:ILE:HD12	2:C:496:ILE:N	2.27	0.49
2:C:983:ILE:HG23	3:D:944:THR:HA	1.95	0.49
2:C:1078:GLU:CD	2:C:1078:GLU:H	2.16	0.49
3:D:11:ALA:HA	3:D:1451:ALA:O	2.12	0.49
3:D:836:VAL:HG13	3:D:837:GLY:N	2.27	0.49
3:D:911:LEU:O	3:D:915:VAL:HG23	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:916:TYR:CZ	3:D:920:LEU:HD12	2.48	0.49
3:D:957:PRO:HG2	3:D:1007:VAL:HG13	1.94	0.49
3:D:1401:GLU:OE1	3:D:1415:VAL:HG22	2.13	0.49
1:F:12:THR:HG22	1:G:229:GLN:CG	2.42	0.49
1:G:38:ASN:HB3	1:G:39:PRO:HD3	1.93	0.49
2:H:55:GLU:HA	2:H:64:LEU:O	2.13	0.49
2:H:92:ALA:H	2:H:117:HIS:HB3	1.77	0.49
2:H:251:ASP:O	2:H:253:ALA:N	2.45	0.49
2:H:877:PRO:O	2:H:879:ARG:N	2.45	0.49
2:H:889:HIS:CE1	3:I:951:ILE:H	2.26	0.49
2:H:1046:ALA:HB1	3:I:1471:LEU:CG	2.42	0.49
3:I:162:ARG:C	3:I:162:ARG:HD3	2.33	0.49
3:I:490:ALA:O	3:I:493:ARG:HG3	2.12	0.49
3:I:551:ASN:O	3:I:554:LEU:HB3	2.13	0.49
3:I:872:ARG:CB	3:I:872:ARG:HH11	2.26	0.49
3:I:1148:VAL:C	3:I:1188:VAL:HG23	2.32	0.49
2:M:1067:TYR:OH	3:N:674:ARG:NH1	2.46	0.49
2:M:1085:PHE:CE2	3:N:1468:LEU:HD12	2.48	0.49
3:N:554:LEU:HD22	3:N:574:LEU:HD22	1.95	0.49
3:N:782:SER:O	3:N:783:ARG:C	2.50	0.49
5:X:45:ASN:HD22	5:X:45:ASN:HA	1.38	0.49
5:Y:83:ILE:HG12	5:Y:154:ILE:HG12	1.95	0.49
2:C:121:MET:HG2	2:C:125:GLY:HA2	1.95	0.49
2:C:197:LEU:HA	2:C:200:LEU:CD1	2.43	0.49
2:C:604:ALA:HB3	2:C:612:VAL:O	2.12	0.49
3:D:157:GLU:HA	3:D:160:GLU:HB3	1.93	0.49
3:D:166:GLN:HG2	3:D:396:VAL:HB	1.94	0.49
3:D:525:ARG:HD2	3:D:540:LEU:HB2	1.94	0.49
3:D:790:TYR:CE1	3:D:1022:VAL:HG13	2.48	0.49
3:D:1348:LEU:N	3:D:1348:LEU:CD1	2.75	0.49
2:H:232:GLU:HG3	2:H:235:LEU:HD12	1.94	0.49
2:H:272:ALA:HA	2:H:464:LEU:HD21	1.93	0.49
2:H:626:ARG:HB3	2:H:629:TYR:CD1	2.47	0.49
2:H:636:ALA:CB	2:H:703:ILE:HD13	2.43	0.49
2:H:876:VAL:HG11	2:H:885:ILE:HD11	1.95	0.49
3:I:374:GLU:O	3:I:375:GLU:HG2	2.13	0.49
3:I:606:ILE:O	3:I:606:ILE:HG12	2.13	0.49
3:I:1044:LEU:HD13	3:I:1053:PHE:O	2.13	0.49
3:I:1379:VAL:HG21	3:I:1417:TRP:HB2	1.95	0.49
2:M:122:THR:CG2	2:M:123:GLU:H	2.19	0.49
2:M:503:LEU:HD21	2:M:507:ARG:N	2.28	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:575:GLN:H	2:M:667:ALA:HB1	1.77	0.49
2:M:1075:ASP:HB2	4:O:31:LEU:HD11	1.94	0.49
3:N:93:ILE:CD1	3:N:548:ILE:HD11	2.43	0.49
3:N:409:VAL:CG2	3:N:421:LEU:HA	2.43	0.49
3:N:705:ALA:HB3	3:N:706:PRO:CD	2.30	0.49
3:N:710:ARG:NH2	3:N:1210:SER:HB3	2.19	0.49
3:N:956:ILE:HD12	3:N:1039:CYS:O	2.13	0.49
5:X:139:SER:HB2	5:X:146:ARG:HG2	1.95	0.49
5:Y:6:LYS:N	5:Y:6:LYS:CD	2.74	0.49
5:Y:125:MET:HA	5:Y:140:LEU:CD1	2.43	0.49
1:A:58:ILE:CD1	1:A:140:MET:HB3	2.42	0.49
1:A:212:ASN:H	1:A:212:ASN:ND2	1.96	0.49
1:A:216:GLU:OE2	1:A:219:ARG:HD2	2.13	0.49
1:B:56:VAL:HG23	1:B:167:VAL:CG2	2.38	0.49
1:B:61:VAL:CG1	1:B:62:LEU:N	2.76	0.49
2:C:300:ASP:OD2	2:C:303:PHE:HB2	2.12	0.49
2:C:559:LEU:HD23	2:C:560:MET:N	2.28	0.49
2:C:605:LYS:H	2:C:612:VAL:HB	1.78	0.49
2:C:874:LEU:CD1	3:D:783:ARG:HB2	2.34	0.49
3:D:592:THR:HB	3:D:596:SER:OG	2.12	0.49
3:D:634:GLY:O	3:D:637:LEU:HB3	2.13	0.49
3:D:982:PHE:HD1	5:X:117:MET:HE2	1.78	0.49
3:D:1084:THR:HG22	3:D:1087:ARG:NH1	2.27	0.49
3:D:1108:ARG:O	3:D:1109:GLU:HB3	2.13	0.49
1:F:101:LEU:CD2	1:F:102:LYS:H	2.21	0.49
1:F:194:LYS:O	1:F:194:LYS:HG2	2.13	0.49
2:H:723:THR:HG23	2:H:725:ASP:HB3	1.94	0.49
3:I:107:ASP:O	3:I:108:VAL:C	2.50	0.49
3:I:161:LEU:HD21	3:I:397:LYS:HZ2	1.77	0.49
1:K:152:PRO:HD2	1:K:155:LYS:HE3	1.93	0.49
1:L:80:LEU:CD2	3:N:844:ALA:HA	2.42	0.49
2:M:66:LEU:CD1	2:M:98:LEU:HB2	2.41	0.49
2:M:683:ASN:H	2:M:683:ASN:ND2	1.93	0.49
2:M:928:LYS:HA	2:M:928:LYS:HZ3	1.75	0.49
3:N:98:PRO:O	3:N:458:ALA:HB3	2.13	0.49
3:N:168:THR:HG23	3:N:394:LEU:CD2	2.38	0.49
3:N:399:ARG:HD2	3:N:401:TYR:OH	2.12	0.49
3:N:464:LEU:HD22	3:N:464:LEU:C	2.34	0.49
3:N:639:LEU:HD21	3:N:766:ALA:HB2	1.95	0.49
3:N:1366:LYS:O	3:N:1369:GLU:HB2	2.13	0.49
3:N:1379:VAL:HG22	3:N:1398:TRP:HE1	1.75	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1388:ARG:HA	3:N:1388:ARG:NE	2.28	0.49
4:O:10:PHE:HE1	4:O:16:LYS:HG3	1.78	0.49
4:O:70:THR:HG21	4:O:72:ARG:NE	2.27	0.49
1:A:94:LEU:HD11	1:A:119:ASP:CB	2.40	0.48
1:B:186:LEU:O	1:B:186:LEU:CG	2.61	0.48
2:C:630:ARG:HE	2:C:705:ILE:HB	1.78	0.48
2:C:710:ILE:CD1	2:C:758:ARG:NH1	2.73	0.48
3:D:140:ALA:HB1	3:D:432:TYR:CE1	2.48	0.48
3:D:153:LEU:HD13	3:D:154:THR:O	2.13	0.48
3:D:553:ARG:CD	3:D:557:LEU:HD11	2.41	0.48
3:D:826:PRO:HD2	3:D:829:VAL:HG22	1.95	0.48
3:D:971:LEU:HD22	3:D:996:TRP:CZ2	2.48	0.48
1:F:101:LEU:HD11	1:F:113:ASP:CB	2.43	0.48
2:H:498:GLN:HE21	2:H:499:ALA:H	1.61	0.48
2:H:580:MET:HE1	2:H:665:PHE:HB3	1.95	0.48
2:H:591:SER:O	2:H:592:LEU:HB3	2.12	0.48
2:H:605:LYS:HB2	2:H:612:VAL:HG23	1.94	0.48
2:H:688:ILE:HB	2:H:848:VAL:O	2.13	0.48
3:I:650:LEU:HD12	3:I:691:LEU:HD22	1.95	0.48
3:I:756:GLN:O	3:I:760:ARG:HG2	2.13	0.48
4:J:45:ARG:HD3	4:J:55:PHE:CD1	2.47	0.48
4:J:64:ALA:O	4:J:68:LEU:HD13	2.13	0.48
1:K:45:LEU:HD11	1:K:177:VAL:CG2	2.42	0.48
1:L:54:THR:HG21	1:L:158:ILE:HG13	1.96	0.48
1:L:99:LEU:CD2	1:L:114:PHE:HB3	2.43	0.48
1:L:206:THR:HG23	1:L:208:LEU:H	1.78	0.48
2:M:274:ARG:HD3	2:M:285:LEU:HB2	1.95	0.48
2:M:348:LEU:HD12	2:M:378:LEU:CD1	2.43	0.48
2:M:473:ARG:HG3	2:M:474:VAL:N	2.28	0.48
3:N:160:GLU:OE2	3:N:161:LEU:HG	2.12	0.48
3:N:760:ARG:HH12	4:O:59:ASN:HD21	1.61	0.48
3:N:766:ALA:O	3:N:924:MET:HE1	2.13	0.48
3:N:1459:LEU:HD23	3:N:1470:ARG:HE	1.78	0.48
1:A:195:LEU:HD11	1:A:197:LEU:HD11	1.93	0.48
1:B:62:LEU:HD13	1:B:62:LEU:H	1.77	0.48
2:C:270:GLY:C	2:C:274:ARG:HB2	2.33	0.48
2:C:274:ARG:HG2	2:C:285:LEU:CB	2.42	0.48
2:C:600:ASP:OD2	2:C:600:ASP:N	2.44	0.48
2:C:710:ILE:HD11	2:C:758:ARG:HD2	1.95	0.48
2:C:722:ILE:HD13	2:C:740:GLU:O	2.13	0.48
2:C:1042:ALA:HB2	3:D:1223:ILE:CG2	2.43	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:126:VAL:O	3:D:130:SER:HB3	2.13	0.48
3:D:700:VAL:HG13	3:D:718:PRO:HG2	1.95	0.48
3:D:1397:LYS:NZ	3:D:1432:LYS:HD2	2.28	0.48
1:F:41:ARG:HH11	1:F:41:ARG:HG3	1.78	0.48
2:H:512:ARG:HH21	2:H:523:ILE:HD12	1.77	0.48
2:H:626:ARG:HB2	2:H:639:GLN:HE22	1.77	0.48
2:H:804:VAL:HG12	2:H:805:ARG:H	1.78	0.48
3:I:50:PHE:CD2	3:I:522:PRO:HD3	2.48	0.48
3:I:179:VAL:CG2	3:I:189:GLN:HE22	2.24	0.48
2:M:129:ILE:HG22	2:M:130:ASN:OD1	2.13	0.48
3:N:704:ARG:HB2	3:N:736:PHE:HB3	1.94	0.48
3:N:832:ARG:HG3	3:N:832:ARG:NH1	2.28	0.48
3:N:1369:GLU:O	3:N:1372:VAL:CG1	2.59	0.48
5:X:7:LEU:HD13	5:X:15:LEU:HD12	1.94	0.48
5:Y:99:ARG:HH11	5:Y:99:ARG:HG3	1.77	0.48
5:Z:44:GLU:O	5:Z:45:ASN:C	2.51	0.48
1:A:45:LEU:CG	1:A:174:VAL:HB	2.43	0.48
2:C:35:PRO:HB2	2:C:37:GLU:HG2	1.95	0.48
2:C:905:ILE:HD12	2:C:905:ILE:N	2.26	0.48
3:D:639:LEU:HD13	3:D:766:ALA:HB2	1.96	0.48
3:D:799:LYS:NZ	3:D:826:PRO:HD3	2.27	0.48
3:D:1156:LEU:HD11	3:D:1176:LYS:HE3	1.94	0.48
1:F:33:GLY:O	1:F:195:LEU:HD22	2.13	0.48
1:F:170:VAL:HG23	1:F:170:VAL:O	2.11	0.48
2:H:53:PRO:CG	2:H:67:ASP:OD1	2.57	0.48
2:H:679:PHE:C	2:H:681:GLY:H	2.16	0.48
2:H:706:GLU:O	2:H:827:VAL:HG12	2.13	0.48
2:H:905:ILE:H	2:H:905:ILE:HD12	1.79	0.48
2:H:988:VAL:HG12	3:I:948:THR:CB	2.43	0.48
3:I:600:LEU:H	3:I:600:LEU:CD1	2.16	0.48
3:I:899:LEU:HD12	3:I:914:LEU:HD23	1.95	0.48
3:I:948:THR:C	3:I:949:ILE:HD12	2.33	0.48
3:I:1042:ARG:HH11	3:I:1061:PHE:HE1	1.59	0.48
3:I:1068:LEU:O	3:I:1072:ILE:HG12	2.13	0.48
3:I:1096:ARG:HB3	3:I:1096:ARG:NH1	2.28	0.48
3:I:1221:VAL:O	3:I:1222:GLY:C	2.52	0.48
4:J:47:LYS:O	4:J:54:LEU:HD13	2.13	0.48
1:L:112:ARG:HD2	1:L:125:PRO:CB	2.44	0.48
2:M:265:ARG:HB3	2:M:267:TYR:CE2	2.48	0.48
2:M:271:GLU:O	2:M:272:ALA:C	2.51	0.48
2:M:502:PRO:HB2	2:M:509:ALA:CB	2.43	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:1042:ALA:HA	3:N:1220:ALA:CB	2.43	0.48
3:N:93:ILE:HD13	3:N:548:ILE:HD11	1.95	0.48
3:N:160:GLU:O	3:N:162:ARG:N	2.46	0.48
3:N:179:VAL:CG1	3:N:180:LYS:N	2.76	0.48
3:N:800:LYS:NZ	3:N:803:GLY:HA2	2.27	0.48
3:N:954:ALA:CB	3:N:1062:ARG:HG3	2.43	0.48
3:N:1148:VAL:HG23	3:N:1163:GLY:HA2	1.95	0.48
4:O:53:GLY:C	4:O:55:PHE:H	2.16	0.48
5:X:83:ILE:O	5:X:130:LEU:HD12	2.13	0.48
1:B:150:TYR:CD1	1:B:169:ALA:O	2.66	0.48
2:C:307:LEU:HG	2:C:311:PHE:CE2	2.47	0.48
2:C:343:GLN:HE21	2:C:346:VAL:HG21	1.79	0.48
2:C:630:ARG:NE	2:C:705:ILE:HB	2.27	0.48
2:C:1056:LYS:HG2	3:D:624:ASP:OD2	2.13	0.48
3:D:184:GLU:OE1	3:D:184:GLU:HA	2.13	0.48
3:D:639:LEU:HD12	3:D:639:LEU:C	2.33	0.48
3:D:1481:VAL:HG13	4:E:18:ARG:NH2	2.22	0.48
1:F:36:LEU:O	1:F:39:PRO:HD2	2.13	0.48
1:F:101:LEU:H	1:F:140:MET:CE	2.25	0.48
1:F:189:ARG:HB3	1:F:192:LEU:HD21	1.95	0.48
1:G:86:VAL:HG12	1:G:124:ASN:HB2	1.95	0.48
2:H:148:PHE:CE2	2:H:309:TYR:HD1	2.31	0.48
2:H:204:GLN:NE2	2:H:224:GLU:O	2.46	0.48
2:H:252:LYS:NZ	2:H:255:ALA:HB3	2.27	0.48
2:H:1042:ALA:HB2	3:I:1223:ILE:CG2	2.43	0.48
2:H:1097:LEU:HD11	3:I:10:ILE:HD13	1.95	0.48
3:I:28:LYS:HG3	3:I:30:GLU:HG2	1.94	0.48
3:I:208:PRO:HB3	3:I:387:LEU:HD22	1.94	0.48
3:I:538:SER:OG	3:I:540:LEU:CD1	2.48	0.48
3:I:704:ARG:HH11	3:I:738:ALA:HB2	1.77	0.48
3:I:758:GLU:HA	4:J:20:THR:HG21	1.96	0.48
3:I:1109:GLU:OE2	3:I:1217:ILE:HD12	2.13	0.48
3:I:1118:ILE:CD1	3:I:1190:SER:HB3	2.43	0.48
1:K:206:THR:OG1	1:K:207:PRO:HD2	2.14	0.48
1:L:70:GLY:HA2	1:L:133:GLU:CG	2.43	0.48
1:L:76:VAL:HB	3:N:872:ARG:NH2	2.25	0.48
2:M:512:ARG:HD3	2:M:523:ILE:HG13	1.96	0.48
2:M:816:LYS:O	2:M:819:VAL:HB	2.13	0.48
2:M:887:GLU:OE2	2:M:992:MET:HA	2.13	0.48
2:M:1013:TYR:CZ	2:M:1060:ILE:CD1	2.96	0.48
3:N:467:GLU:O	3:N:468:LEU:C	2.51	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:578:VAL:O	3:N:582:LEU:HG	2.12	0.48
3:N:1026:SER:C	3:N:1028:ALA:H	2.17	0.48
3:N:1224:VAL:CG1	3:N:1225:ALA:N	2.77	0.48
3:N:1229:ILE:C	3:N:1232:PRO:HD2	2.34	0.48
5:Y:16:MET:SD	5:Y:69:LEU:CD1	3.01	0.48
1:B:43:ILE:HD13	1:B:43:ILE:N	2.28	0.48
2:C:98:LEU:N	2:C:98:LEU:CD1	2.76	0.48
2:C:172:ILE:HG23	2:C:186:VAL:CG1	2.43	0.48
2:C:630:ARG:CD	2:C:705:ILE:HB	2.44	0.48
3:D:160:GLU:CG	3:D:161:LEU:HD22	2.43	0.48
3:D:521:PRO:HB2	3:D:524:LEU:CD1	2.43	0.48
3:D:642:CYS:HB3	3:D:716:PHE:CB	2.43	0.48
3:D:713:ILE:HD12	3:D:713:ILE:N	2.28	0.48
3:D:927:THR:O	3:D:930:LEU:HB3	2.14	0.48
3:D:1252:ILE:CG1	3:D:1253:THR:N	2.66	0.48
4:E:6:ILE:HD12	4:E:9:LEU:HD12	1.96	0.48
2:H:107:LEU:HD21	2:H:109:LYS:HG3	1.95	0.48
2:H:425:PHE:CG	3:I:1239:ARG:NH2	2.82	0.48
2:H:450:GLY:HA2	3:I:1078:ARG:NH1	2.24	0.48
2:H:511:GLU:O	2:H:526:PRO:HD3	2.14	0.48
2:H:512:ARG:HH21	2:H:523:ILE:CD1	2.25	0.48
2:H:691:SER:HB2	2:H:858:MET:SD	2.53	0.48
2:H:905:ILE:H	2:H:905:ILE:CD1	2.25	0.48
3:I:52:PRO:C	3:I:86:ARG:NE	2.67	0.48
3:I:699:VAL:HG21	3:I:760:ARG:HB3	1.96	0.48
3:I:1329:ALA:C	3:I:1330:ILE:HD12	2.34	0.48
3:I:1340:GLY:O	3:I:1344:VAL:HG23	2.14	0.48
1:K:156:HIS:CD2	1:K:157:GLY:N	2.82	0.48
1:L:125:PRO:O	1:L:127:LEU:N	2.40	0.48
2:M:876:VAL:N	2:M:877:PRO:CD	2.71	0.48
2:M:877:PRO:HG2	2:M:878:SER:H	1.77	0.48
3:N:141:ILE:HG13	3:N:448:GLU:CD	2.34	0.48
3:N:1388:ARG:HA	3:N:1388:ARG:HE	1.78	0.48
3:N:1429:LEU:HA	3:N:1441:GLN:HE21	1.78	0.48
4:O:30:LEU:O	4:O:35:PHE:HA	2.13	0.48
5:X:45:ASN:CB	5:X:48:TYR:HB2	2.43	0.48
5:Z:16:MET:O	5:Z:20:GLU:HG3	2.13	0.48
5:Z:150:ARG:NH1	5:Z:152:VAL:HG22	2.28	0.48
1:A:19:GLU:HG3	1:A:201:THR:O	2.14	0.48
1:A:52:ALA:O	1:A:144:VAL:HG13	2.13	0.48
1:B:14:ARG:HB2	1:B:22:GLU:HB2	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:44:LEU:HD23	1:B:177:VAL:HG11	1.93	0.48
1:B:65:PHE:CD1	3:D:813:LEU:HD22	2.49	0.48
1:B:172:SER:C	1:B:174:VAL:H	2.17	0.48
2:C:13:ILE:HD12	2:C:14:PRO:HD2	1.94	0.48
2:C:483:VAL:HG12	2:C:484:VAL:N	2.29	0.48
2:C:496:ILE:O	2:C:515:ALA:HB1	2.13	0.48
2:C:516:ARG:HH22	3:D:1067:VAL:HG23	1.79	0.48
3:D:1109:GLU:HG2	3:D:1201:CYS:HB2	1.94	0.48
3:D:1323:GLN:O	3:D:1325:LEU:CD1	2.62	0.48
1:G:101:LEU:HB2	1:G:114:PHE:CD2	2.48	0.48
1:G:132:LEU:HD21	1:G:138:LEU:HB3	1.95	0.48
2:H:540:PHE:HE1	2:H:905:ILE:HG21	1.78	0.48
2:H:565:GLN:CD	2:H:842:ARG:HG2	2.34	0.48
2:H:607:ASP:C	2:H:609:ASN:H	2.17	0.48
2:H:639:GLN:O	2:H:641:PRO:HD3	2.14	0.48
2:H:949:LYS:HD2	3:I:796:ARG:HH21	1.79	0.48
2:H:1067:TYR:O	2:H:1071:ILE:HG13	2.13	0.48
3:I:127:LEU:HB2	3:I:132:TYR:O	2.13	0.48
3:I:500:ARG:HG3	3:I:500:ARG:HH11	1.78	0.48
3:I:849:ALA:O	3:I:850:LEU:C	2.51	0.48
3:I:1149:LEU:HD23	3:I:1164:ARG:O	2.13	0.48
1:K:43:ILE:HG22	1:K:47:SER:HB2	1.96	0.48
2:M:139:GLN:OE1	2:M:334:ARG:HD2	2.13	0.48
2:M:442:GLU:O	2:M:442:GLU:HG3	2.14	0.48
2:M:929:ARG:HG3	2:M:929:ARG:NH1	2.29	0.48
2:M:1066:ALA:HA	2:M:1077:PRO:HD3	1.95	0.48
2:M:1087:VAL:CG2	3:N:524:LEU:HD11	2.43	0.48
3:N:133:ILE:HG12	3:N:456:MET:HB3	1.94	0.48
3:N:829:VAL:HG12	3:N:830:ALA:N	2.28	0.48
3:N:1147:ARG:HB2	3:N:1166:LEU:HD21	1.96	0.48
5:Y:83:ILE:CG1	5:Y:154:ILE:HG12	2.44	0.48
1:A:38:ASN:HB3	1:A:39:PRO:HD3	1.95	0.48
1:A:85:LEU:HD12	1:A:124:ASN:HD22	1.79	0.48
1:B:26:GLU:HB2	1:B:27:PRO:HA	1.95	0.48
1:B:138:LEU:HD22	1:B:138:LEU:C	2.33	0.48
2:C:15:LEU:H	2:C:15:LEU:CD1	2.20	0.48
2:C:52:PHE:O	2:C:54:ILE:N	2.46	0.48
2:C:64:LEU:HD11	2:C:372:LEU:CD2	2.38	0.48
2:C:102:HIS:CE1	2:C:107:LEU:HD13	2.49	0.48
2:C:838:LYS:NZ	3:D:742:GLY:HA3	2.27	0.48
3:D:102:ILE:HD11	3:D:586:ARG:HG3	1.93	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:117:ASP:HB2	3:D:495:ARG:NH1	2.27	0.48
3:D:421:LEU:HD21	3:D:429:SER:HB2	1.96	0.48
3:D:838:ARG:CG	3:D:863:VAL:HB	2.43	0.48
3:D:1363:LEU:N	3:D:1363:LEU:CD2	2.76	0.48
1:F:50:GLY:CA	1:F:173:PRO:HG3	2.44	0.48
1:F:79:ILE:HA	1:F:82:LEU:HD12	1.95	0.48
1:F:102:LYS:NZ	1:F:139:ASN:ND2	2.62	0.48
1:F:126:ASP:O	1:F:127:LEU:C	2.48	0.48
1:F:158:ILE:O	1:F:166:PRO:HG3	2.13	0.48
2:H:479:VAL:HG22	2:H:506:ASN:C	2.34	0.48
2:H:976:ASP:OD1	2:H:978:ARG:HD3	2.13	0.48
3:I:134:VAL:HA	3:I:152:LEU:HB3	1.95	0.48
3:I:183:GLU:O	3:I:185:VAL:HG23	2.14	0.48
3:I:847:ASP:HA	3:I:850:LEU:HD13	1.96	0.48
3:I:1019:PRO:O	3:I:1020:LEU:C	2.51	0.48
3:I:1209:LEU:CG	3:I:1210:SER:H	2.24	0.48
3:I:1345:GLU:CA	3:I:1348:LEU:HD22	2.42	0.48
1:L:99:LEU:HD22	1:L:114:PHE:HB3	1.95	0.48
2:M:890:LEU:HD22	2:M:901:TYR:CE1	2.48	0.48
3:N:133:ILE:HG23	3:N:455:ARG:O	2.14	0.48
3:N:137:PRO:CD	3:N:453:ASP:O	2.61	0.48
3:N:777:PRO:C	3:N:778:LEU:HD13	2.34	0.48
3:N:861:GLN:NE2	3:N:861:GLN:N	2.62	0.48
3:N:963:TYR:HE2	3:N:1002:LYS:HD3	1.79	0.48
3:N:1277:ILE:HD12	3:N:1277:ILE:N	2.28	0.48
3:N:1278:ASP:HB3	3:N:1320:GLU:HA	1.95	0.48
3:N:1440:PHE:CE1	3:N:1463:LYS:HE2	2.49	0.48
5:X:19:LEU:HD22	5:X:66:GLU:HG3	1.95	0.48
1:A:208:LEU:HD23	1:A:212:ASN:ND2	2.28	0.48
2:C:554:ASP:OD2	2:C:556:ASN:HB2	2.14	0.48
2:C:643:VAL:HG12	2:C:644:VAL:N	2.28	0.48
2:C:666:LEU:HG	2:C:668:LEU:CD1	2.43	0.48
2:C:745:ILE:H	2:C:745:ILE:HD12	1.78	0.48
2:C:1006:HIS:CD2	3:D:628:ARG:NH2	2.82	0.48
2:C:1029:GLY:HA3	3:D:626:SER:HG	1.79	0.48
3:D:131:LYS:HG3	3:D:568:ARG:HG3	1.96	0.48
3:D:482:LYS:HE2	3:D:1388:ARG:HH21	1.78	0.48
3:D:658:LEU:HD23	3:D:661:MET:HE2	1.96	0.48
3:D:843:PHE:O	3:D:866:VAL:HA	2.13	0.48
3:D:857:ILE:HG22	3:D:858:VAL:CG1	2.42	0.48
1:G:205:VAL:HG22	1:G:206:THR:O	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:30:LEU:HB3	2:H:44:ILE:CD1	2.44	0.48
2:H:164:PRO:HB2	2:H:265:ARG:H	1.77	0.48
2:H:196:LEU:CD2	2:H:200:LEU:HD21	2.44	0.48
2:H:304:LEU:HD23	2:H:304:LEU:C	2.33	0.48
2:H:391:LEU:C	2:H:391:LEU:HD23	2.34	0.48
2:H:494:TYR:CD2	2:H:531:PHE:HE2	2.32	0.48
2:H:595:LEU:HD13	2:H:596:TYR:H	1.78	0.48
2:H:1084:SER:O	2:H:1087:VAL:HG12	2.14	0.48
3:I:654:LYS:CB	3:I:655:PRO:HD3	2.38	0.48
3:I:1110:ALA:O	3:I:1111:ASP:HB3	2.13	0.48
2:M:15:LEU:CD2	2:M:586:ARG:HG3	2.43	0.48
2:M:44:ILE:HD12	2:M:44:ILE:H	1.78	0.48
2:M:88:LEU:HA	2:M:814:GLU:OE1	2.14	0.48
2:M:596:TYR:HB3	2:M:652:GLY:HA2	1.96	0.48
3:N:179:VAL:HG22	3:N:183:GLU:OE2	2.13	0.48
3:N:941:PHE:C	3:N:943:THR:H	2.16	0.48
3:N:988:ARG:HH11	3:N:988:ARG:HG3	1.77	0.48
3:N:1269:LYS:HG2	3:N:1270:ALA:N	2.28	0.48
3:N:1272:ALA:HB1	3:N:1326:THR:HB	1.94	0.48
3:N:1273:VAL:O	3:N:1325:LEU:HB2	2.14	0.48
3:N:1274:ILE:HB	3:N:1322:GLY:HA2	1.96	0.48
3:N:1275:SER:HA	3:N:1303:TYR:OH	2.13	0.48
3:N:1422:MET:HB2	3:N:1426:LYS:CG	2.44	0.48
3:N:1434:TRP:CD1	3:N:1434:TRP:C	2.86	0.48
5:Y:50:GLU:HA	5:Y:53:ARG:HD2	1.95	0.48
2:C:72:ARG:O	2:C:73:LEU:CB	2.61	0.48
2:C:265:ARG:HG2	2:C:267:TYR:CG	2.48	0.48
2:C:544:THR:HG22	2:C:562:SER:OG	2.13	0.48
2:C:1090:LYS:HD3	2:C:1093:GLN:HG3	1.94	0.48
3:D:171:LEU:HB2	3:D:391:ALA:O	2.14	0.48
3:D:1146:GLY:CA	3:D:1207:TYR:HB2	2.44	0.48
4:E:51:LEU:C	4:E:53:GLY:H	2.17	0.48
1:F:10:VAL:CG1	1:G:229:GLN:HE21	2.26	0.48
1:G:30:ARG:HB3	1:G:30:ARG:NH1	2.26	0.48
1:G:175:ARG:HB2	1:G:200:TRP:HB3	1.96	0.48
2:H:207:LEU:O	2:H:208:ALA:C	2.52	0.48
2:H:694:LEU:HD11	2:H:700:TYR:H	1.78	0.48
3:I:179:VAL:HG13	3:I:183:GLU:HB3	1.95	0.48
3:I:431:VAL:HG12	3:I:432:TYR:H	1.78	0.48
3:I:620:GLY:O	3:I:621:LYS:CB	2.61	0.48
3:I:769:LEU:HD12	3:I:924:MET:CE	2.44	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:774:SER:C	3:I:776:GLU:H	2.16	0.48
3:I:846:PRO:O	3:I:849:ALA:HB3	2.13	0.48
3:I:1107:VAL:O	3:I:1218:GLY:HA2	2.13	0.48
3:I:1189:ARG:HG3	3:I:1189:ARG:NH1	2.28	0.48
3:I:1256:LEU:O	3:I:1259:VAL:N	2.45	0.48
3:I:1348:LEU:HD23	3:I:1372:VAL:HG21	1.95	0.48
1:K:89:PHE:C	1:K:90:LEU:HD12	2.34	0.48
1:K:142:VAL:HG23	1:K:142:VAL:O	2.14	0.48
1:L:163:ASN:O	1:L:163:ASN:ND2	2.46	0.48
2:M:904:PRO:HB2	2:M:907:ASP:HB3	1.96	0.48
2:M:958:THR:O	2:M:962:GLN:HG3	2.13	0.48
2:M:971:LYS:HB3	2:M:986:PRO:HB2	1.95	0.48
3:N:118:LEU:HD23	3:N:123:LEU:HD23	1.95	0.48
3:N:550:ARG:NE	3:N:573:MET:HB3	2.29	0.48
3:N:921:ARG:HG3	3:N:921:ARG:HH11	1.79	0.48
3:N:927:THR:O	3:N:930:LEU:HB3	2.14	0.48
3:N:991:GLN:HA	3:N:991:GLN:NE2	2.23	0.48
3:N:1192:LEU:HD21	3:N:1372:VAL:HG13	1.96	0.48
3:N:1283:ILE:HD13	3:N:1283:ILE:N	2.29	0.48
3:N:1357:ARG:C	3:N:1359:GLN:H	2.17	0.48
5:X:7:LEU:HD21	5:X:108:ALA:HB3	1.95	0.48
1:A:54:THR:O	1:A:167:VAL:HG23	2.14	0.48
1:A:153:ALA:HB3	1:A:154:GLU:OE2	2.14	0.48
1:A:184:THR:HG21	1:A:190:THR:HA	1.95	0.48
1:B:100:LEU:HB2	1:B:115:LEU:HD21	1.96	0.48
1:B:194:LYS:NZ	1:B:196:THR:HG21	2.29	0.48
2:C:1066:ALA:O	2:C:1070:ILE:HD13	2.14	0.48
3:D:17:LYS:HA	3:D:20:SER:HB2	1.96	0.48
3:D:26:VAL:HG23	3:D:26:VAL:O	2.13	0.48
3:D:700:VAL:O	3:D:701:LEU:HD12	2.14	0.48
3:D:711:LEU:HD21	3:D:768:ASN:HB3	1.95	0.48
3:D:800:LYS:HD3	3:D:803:GLY:HA2	1.96	0.48
3:D:885:ILE:HG23	3:D:937:TYR:CE1	2.49	0.48
3:D:887:ALA:O	3:D:890:VAL:O	2.31	0.48
3:D:908:LYS:H	3:D:1027:GLY:HA3	1.79	0.48
3:D:1277:ILE:HD13	3:D:1301:LYS:HG2	1.96	0.48
1:F:42:ARG:HH21	2:H:857:ASP:HB3	1.79	0.48
1:F:229:GLN:O	1:G:12:THR:HA	2.14	0.48
1:G:56:VAL:HG22	1:G:142:VAL:HG12	1.95	0.48
1:G:117:VAL:HB	1:G:120:VAL:HG21	1.95	0.48
1:G:191:ASP:CG	1:G:191:ASP:O	2.53	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:250:ARG:NH1	2:H:250:ARG:CA	2.64	0.48
2:H:347:GLY:HA3	2:H:378:LEU:HD12	1.96	0.48
2:H:367:LEU:HB3	2:H:371:LYS:CB	2.44	0.48
2:H:477:GLY:HA2	2:H:508:ILE:CD1	2.44	0.48
2:H:486:MET:SD	2:H:491:GLU:HA	2.53	0.48
2:H:582:GLY:N	2:H:584:GLU:OE2	2.46	0.48
2:H:583:LEU:O	2:H:587:VAL:HG23	2.14	0.48
2:H:597:ALA:HA	2:H:655:LEU:HD11	1.95	0.48
2:H:705:ILE:HG22	2:H:706:GLU:H	1.78	0.48
2:H:869:VAL:HG22	2:H:870:ILE:N	2.28	0.48
2:H:884:GLN:HB2	2:H:992:MET:HE1	1.94	0.48
3:I:134:VAL:HG22	3:I:152:LEU:HD22	1.96	0.48
3:I:204:LEU:HD21	3:I:445:ARG:CD	2.43	0.48
3:I:702:LEU:O	3:I:713:ILE:HG22	2.14	0.48
3:I:729:HIS:HB3	3:I:732:VAL:CG2	2.44	0.48
3:I:829:VAL:HG12	3:I:830:ALA:N	2.29	0.48
3:I:879:ARG:HH22	3:I:904:VAL:CA	2.27	0.48
3:I:896:ALA:C	3:I:898:GLU:H	2.17	0.48
3:I:972:LEU:HG	3:I:976:GLN:HE21	1.79	0.48
3:I:982:PHE:CZ	5:Y:119:ILE:CD1	2.97	0.48
1:K:176:ARG:O	1:K:200:TRP:HE3	1.96	0.48
1:L:173:PRO:O	1:L:201:THR:HA	2.14	0.48
1:L:175:ARG:HB2	1:L:200:TRP:HB2	1.96	0.48
2:M:56:GLU:OE2	2:M:356:ARG:HD3	2.14	0.48
2:M:134:ARG:HB3	2:M:134:ARG:CZ	2.43	0.48
2:M:630:ARG:NH2	2:M:707:ARG:H	2.11	0.48
3:N:203:ALA:HB1	3:N:393:ILE:HG22	1.96	0.48
3:N:1440:PHE:CZ	3:N:1463:LYS:HE2	2.49	0.48
2:C:455:LEU:HD11	2:C:459:ALA:CB	2.44	0.47
2:C:490:GLU:O	2:C:493:ARG:HB2	2.14	0.47
2:C:710:ILE:CG1	2:C:758:ARG:HH11	2.27	0.47
3:D:214:GLU:O	3:D:383:GLY:HA2	2.14	0.47
3:D:471:GLU:O	3:D:475:LYS:HG3	2.14	0.47
3:D:592:THR:HB	3:D:596:SER:CB	2.43	0.47
3:D:702:LEU:HD23	3:D:728:LEU:HD13	1.96	0.47
3:D:1031:ASN:HB3	3:D:1034:GLN:HG3	1.95	0.47
3:D:1150:ALA:O	3:D:1162:GLU:HB2	2.14	0.47
3:D:1207:TYR:CE2	3:D:1213:ARG:HA	2.48	0.47
4:E:6:ILE:HG13	4:E:10:PHE:CE1	2.49	0.47
1:F:63:HIS:CE1	2:H:801:VAL:HG23	2.49	0.47
1:G:87:VAL:HG12	1:G:122:ILE:HG22	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:109:LYS:HZ3	2:H:369:PRO:HD3	1.78	0.47
2:H:196:LEU:HD21	2:H:200:LEU:HD21	1.96	0.47
2:H:442:GLU:HG2	2:H:454:SER:CB	2.43	0.47
2:H:606:VAL:HA	2:H:611:ILE:HD12	1.95	0.47
2:H:835:VAL:HG13	2:H:836:GLY:N	2.28	0.47
3:I:701:LEU:HD21	3:I:763:MET:CE	2.43	0.47
3:I:1307:LYS:HD3	3:I:1307:LYS:N	2.29	0.47
1:L:44:LEU:HD13	1:L:199:ILE:HD12	1.95	0.47
2:M:359:MET:SD	2:M:359:MET:C	2.92	0.47
2:M:373:VAL:HG12	2:M:374:ASN:N	2.28	0.47
2:M:693:GLU:OE1	2:M:855:VAL:HG21	2.14	0.47
2:M:1019:GLN:O	2:M:1021:LEU:HD12	2.14	0.47
3:N:356:PRO:HD3	3:N:442:ASN:ND2	2.29	0.47
3:N:456:MET:CA	3:N:460:ALA:HB2	2.44	0.47
3:N:766:ALA:HB3	4:O:2:ALA:HA	1.96	0.47
3:N:943:THR:OG1	3:N:944:THR:N	2.46	0.47
4:O:10:PHE:CE1	4:O:16:LYS:HG3	2.49	0.47
5:Y:89:VAL:HG11	5:Y:129:LEU:HD22	1.96	0.47
2:C:91:GLN:NE2	2:C:383:ARG:HH12	2.12	0.47
2:C:256:TYR:CE1	2:C:293:PHE:HB2	2.48	0.47
2:C:343:GLN:O	2:C:346:VAL:HB	2.14	0.47
2:C:384:GLU:O	2:C:388:ARG:HB2	2.14	0.47
2:C:498:GLN:CD	3:D:1067:VAL:HG21	2.34	0.47
2:C:584:GLU:CD	2:C:584:GLU:N	2.65	0.47
2:C:1081:VAL:CG1	2:C:1085:PHE:HD1	2.22	0.47
3:D:101:HIS:HA	3:D:514:LEU:HD11	1.97	0.47
3:D:162:ARG:NH2	3:D:452:ILE:HG23	2.28	0.47
3:D:465:LEU:HD13	3:D:512:MET:HB2	1.96	0.47
3:D:536:ALA:O	3:D:537:THR:C	2.53	0.47
2:H:165:LEU:HG	2:H:166:PRO:CA	2.31	0.47
2:H:498:GLN:HE21	2:H:498:GLN:CA	2.27	0.47
2:H:595:LEU:HD13	2:H:596:TYR:N	2.29	0.47
2:H:710:ILE:HD11	2:H:758:ARG:NH1	2.29	0.47
2:H:945:ARG:HH22	3:I:859:ASP:CG	2.18	0.47
3:I:44:LEU:HD21	3:I:545:ARG:HG3	1.95	0.47
3:I:90:MET:HE2	3:I:519:VAL:C	2.33	0.47
3:I:111:LYS:HG3	3:I:1452:ILE:CD1	2.41	0.47
3:I:180:LYS:HZ3	3:I:180:LYS:HA	1.79	0.47
3:I:795:VAL:HG12	3:I:796:ARG:H	1.80	0.47
3:I:804:LEU:HD23	3:I:829:VAL:CG1	2.43	0.47
3:I:877:PRO:HA	3:I:880:ILE:HG22	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:1277:ILE:HD13	3:I:1301:LYS:CB	2.44	0.47
3:I:1394:VAL:HB	3:I:1397:LYS:HD2	1.96	0.47
1:K:106:PRO:HA	1:K:132:LEU:O	2.14	0.47
1:K:123:MET:O	1:K:125:PRO:HD3	2.13	0.47
1:K:156:HIS:CD2	1:K:158:ILE:HG12	2.49	0.47
1:K:181:VAL:HG12	1:K:193:ASP:OD2	2.14	0.47
2:M:114:PHE:C	2:M:115:LEU:HD23	2.34	0.47
2:M:199:VAL:HG22	2:M:234:ALA:HB3	1.96	0.47
2:M:461:VAL:CG1	2:M:462:ASP:N	2.77	0.47
2:M:992:MET:HE2	2:M:993:PHE:O	2.15	0.47
3:N:95:LEU:HD23	3:N:96:ALA:H	1.78	0.47
3:N:109:PRO:O	3:N:111:LYS:N	2.47	0.47
3:N:119:SER:CB	3:N:123:LEU:H	2.27	0.47
3:N:496:LEU:HD12	3:N:499:VAL:HB	1.97	0.47
3:N:1015:TYR:HB3	3:N:1018:ASN:HB2	1.96	0.47
3:N:1109:GLU:HG2	3:N:1201:CYS:HB3	1.97	0.47
5:Z:7:LEU:HD21	5:Z:108:ALA:HB3	1.96	0.47
5:Z:14:ARG:HB3	5:Z:14:ARG:HH11	1.79	0.47
1:B:212:ASN:O	1:B:215:VAL:HG22	2.15	0.47
2:C:15:LEU:HD21	2:C:583:LEU:CD1	2.45	0.47
2:C:73:LEU:HD23	2:C:94:LEU:CB	2.44	0.47
2:C:73:LEU:HG	2:C:94:LEU:HD23	1.96	0.47
2:C:141:HIS:NE2	2:C:332:ARG:HB3	2.29	0.47
2:C:154:ARG:C	2:C:156:GLY:H	2.17	0.47
2:C:953:VAL:CG1	2:C:962:GLN:HG2	2.44	0.47
2:C:1054:THR:OG1	2:C:1055:LEU:N	2.47	0.47
2:C:1072:LYS:C	3:D:659:LYS:NZ	2.67	0.47
2:C:1073:GLY:HA3	3:D:659:LYS:HZ3	1.80	0.47
3:D:470:LEU:HD23	3:D:470:LEU:N	2.29	0.47
3:D:642:CYS:SG	3:D:716:PHE:HB3	2.54	0.47
3:D:702:LEU:HD13	3:D:716:PHE:HD1	1.80	0.47
3:D:1076:GLY:HA2	5:X:53:ARG:HH22	1.80	0.47
3:D:1106:VAL:HG13	3:D:1219:GLU:C	2.34	0.47
3:D:1359:GLN:HA	3:D:1359:GLN:NE2	2.29	0.47
4:E:47:LYS:CG	4:E:55:PHE:HE2	2.27	0.47
1:F:184:THR:CG2	1:F:192:LEU:H	2.27	0.47
2:H:263:ASP:CB	2:H:264:PRO:CD	2.93	0.47
2:H:678:PRO:HB2	3:I:942:SER:OG	2.14	0.47
2:H:690:ILE:HD12	2:H:852:ILE:HG23	1.97	0.47
2:H:861:LEU:HD23	2:H:861:LEU:C	2.35	0.47
2:H:892:LEU:HD13	2:H:989:VAL:HG23	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:1092:LEU:HD13	2:H:1097:LEU:HD23	1.96	0.47
3:I:406:ASP:O	3:I:422:ALA:HB1	2.14	0.47
3:I:615:ARG:HH12	3:I:1439:SER:HB3	1.79	0.47
3:I:718:PRO:O	3:I:719:VAL:HG23	2.14	0.47
3:I:870:GLY:H	3:I:871:LYS:CE	2.27	0.47
3:I:1026:SER:C	3:I:1028:ALA:H	2.16	0.47
1:L:206:THR:HG22	1:L:209:GLU:OE1	2.14	0.47
2:M:473:ARG:HD3	2:M:531:PHE:CE1	2.49	0.47
2:M:743:VAL:HG11	2:M:755:LEU:CD2	2.43	0.47
3:N:36:THR:C	3:N:38:LYS:H	2.16	0.47
3:N:98:PRO:HB3	3:N:513:ILE:HD13	1.96	0.47
3:N:813:LEU:HD12	3:N:813:LEU:C	2.34	0.47
3:N:850:LEU:H	3:N:850:LEU:CD1	2.26	0.47
3:N:863:VAL:HA	3:N:875:THR:O	2.14	0.47
3:N:1173:LEU:HD12	3:N:1174:LEU:N	2.29	0.47
3:N:1333:HIS:O	3:N:1336:LEU:HB3	2.15	0.47
4:O:30:LEU:HB3	4:O:35:PHE:CE1	2.49	0.47
1:B:51:THR:HG22	1:B:89:PHE:CE2	2.49	0.47
1:B:218:LEU:CG	1:B:219:ARG:N	2.77	0.47
2:C:173:ASP:O	2:C:174:LEU:HD23	2.14	0.47
2:C:328:LEU:C	2:C:330:ASN:H	2.17	0.47
2:C:437:ARG:HB3	2:C:438:ILE:HD12	1.95	0.47
2:C:572:ILE:HG12	2:C:573:ARG:N	2.29	0.47
3:D:195:VAL:HG12	3:D:196:VAL:N	2.29	0.47
3:D:608:SER:HB2	3:D:1443:THR:OG1	2.14	0.47
3:D:637:LEU:CD2	3:D:642:CYS:HA	2.41	0.47
3:D:804:LEU:HD12	3:D:804:LEU:H	1.78	0.47
3:D:850:LEU:O	3:D:853:VAL:N	2.48	0.47
3:D:963:TYR:CE2	3:D:1002:LYS:HB3	2.50	0.47
3:D:1042:ARG:NH2	3:D:1061:PHE:HE1	2.13	0.47
3:D:1350:GLU:HG3	3:D:1354:LYS:HE3	1.95	0.47
3:D:1406:ARG:HD2	3:D:1412:LYS:CG	2.44	0.47
1:F:54:THR:O	1:F:167:VAL:HG23	2.14	0.47
1:F:61:VAL:CG2	1:F:68:ILE:HD11	2.44	0.47
2:H:120:LEU:HD22	2:H:120:LEU:N	2.28	0.47
2:H:250:ARG:NH2	2:H:256:TYR:OH	2.47	0.47
2:H:335:THR:O	2:H:336:VAL:C	2.52	0.47
2:H:755:LEU:HD23	2:H:755:LEU:H	1.77	0.47
2:H:758:ARG:HB3	2:H:788:THR:O	2.14	0.47
2:H:861:LEU:HD23	2:H:862:PRO:HD2	1.96	0.47
2:H:1019:GLN:OE1	3:I:621:LYS:HB3	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:112:ILE:CD1	3:I:465:LEU:HD21	2.45	0.47
3:I:1031:ASN:HD21	5:Y:32:ASP:HB3	1.75	0.47
3:I:1264:GLU:O	3:I:1266:ARG:HG3	2.13	0.47
3:I:1381:VAL:HG23	3:I:1391:GLU:O	2.15	0.47
1:L:76:VAL:HA	1:L:79:ILE:HG22	1.96	0.47
2:M:145:GLY:HA3	2:M:276:LYS:HG2	1.95	0.47
2:M:351:LEU:CD1	2:M:374:ASN:HD21	2.27	0.47
2:M:478:VAL:HA	2:M:506:ASN:O	2.14	0.47
2:M:692:GLU:HG2	2:M:696:LYS:HE3	1.96	0.47
3:N:137:PRO:CG	3:N:453:ASP:HB2	2.44	0.47
3:N:508:ARG:HB3	3:N:510:GLU:OE2	2.14	0.47
3:N:661:MET:CE	3:N:677:LEU:HD11	2.44	0.47
3:N:729:HIS:NE2	3:N:731:LEU:HB2	2.29	0.47
3:N:817:GLU:O	3:N:820:GLU:HB3	2.15	0.47
3:N:1313:VAL:HG13	3:N:1313:VAL:O	2.15	0.47
4:O:9:LEU:HD22	4:O:68:LEU:CD2	2.44	0.47
4:O:41:GLU:HA	4:O:45:ARG:NE	2.29	0.47
2:C:243:ARG:NH1	2:C:243:ARG:HG2	2.30	0.47
2:C:604:ALA:HB3	2:C:612:VAL:C	2.35	0.47
3:D:466:LYS:HG2	3:D:510:GLU:CG	2.43	0.47
3:D:522:PRO:C	3:D:524:LEU:H	2.18	0.47
3:D:584:ASN:OD1	3:D:590:PRO:HD2	2.15	0.47
3:D:700:VAL:HB	3:D:748:HIS:O	2.15	0.47
3:D:892:ASP:OD2	3:D:895:VAL:HG23	2.13	0.47
3:D:1294:VAL:HG13	3:D:1319:VAL:HG21	1.97	0.47
3:D:1344:VAL:O	3:D:1347:TYR:HB3	2.14	0.47
1:F:102:LYS:CB	1:F:138:LEU:O	2.62	0.47
1:G:58:ILE:HB	1:G:61:VAL:HB	1.96	0.47
1:G:124:ASN:HD21	1:G:127:LEU:HD22	1.77	0.47
1:G:180:GLN:HB3	1:G:182:GLU:OE1	2.15	0.47
2:H:54:ILE:HD13	2:H:355:VAL:CG2	2.44	0.47
2:H:88:LEU:HD13	2:H:89:THR:N	2.27	0.47
2:H:202:TYR:HB3	2:H:207:LEU:HD12	1.96	0.47
2:H:254:VAL:HG12	2:H:258:TYR:CE1	2.49	0.47
2:H:328:LEU:CD1	2:H:328:LEU:H	2.27	0.47
2:H:333:ILE:HG22	2:H:465:GLY:HA2	1.96	0.47
2:H:471:TYR:OH	2:H:491:GLU:OE1	2.30	0.47
2:H:516:ARG:HH11	2:H:516:ARG:H	1.61	0.47
2:H:612:VAL:CG2	2:H:622:GLU:CD	2.82	0.47
2:H:835:VAL:HG13	2:H:836:GLY:H	1.77	0.47
2:H:876:VAL:N	2:H:877:PRO:CD	2.76	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:36:THR:C	3:I:38:LYS:H	2.17	0.47
3:I:361:VAL:HG11	3:I:367:ILE:HD11	1.96	0.47
3:I:481:MET:CG	3:I:1388:ARG:NH2	2.73	0.47
3:I:704:ARG:HD3	3:I:738:ALA:HB2	1.96	0.47
3:I:996:TRP:CG	3:I:1056:PRO:HG2	2.49	0.47
1:L:62:LEU:HD12	1:L:63:HIS:HB2	1.96	0.47
2:M:184:MET:HB3	2:M:191:PHE:CE1	2.49	0.47
2:M:338:GLU:HA	2:M:341:THR:HG22	1.96	0.47
2:M:441:VAL:HG12	2:M:559:LEU:HA	1.96	0.47
2:M:569:VAL:HG12	2:M:996:LYS:HB3	1.92	0.47
2:M:888:THR:O	2:M:990:GLY:HA3	2.13	0.47
2:M:905:ILE:H	2:M:905:ILE:HD12	1.80	0.47
2:M:1109:VAL:HG21	3:N:5:VAL:HG13	1.95	0.47
3:N:150:ARG:HH12	3:N:468:LEU:HD21	1.79	0.47
3:N:637:LEU:HD11	3:N:642:CYS:N	2.30	0.47
3:N:925:GLU:HG2	3:N:929:ARG:HH12	1.78	0.47
3:N:1037:GLN:O	3:N:1038:LEU:HD23	2.14	0.47
3:N:1349:VAL:HA	3:N:1368:ILE:HG21	1.97	0.47
3:N:1380:GLU:HG3	3:N:1381:VAL:N	2.30	0.47
5:X:85:LEU:HD21	5:X:121:ASP:OD1	2.14	0.47
1:A:114:PHE:CE2	1:A:142:VAL:HG21	2.49	0.47
1:B:118:ALA:O	1:B:120:VAL:N	2.45	0.47
2:C:15:LEU:HD21	2:C:583:LEU:HD12	1.97	0.47
2:C:276:LYS:HA	2:C:280:LYS:HD3	1.97	0.47
3:D:102:ILE:HD13	3:D:102:ILE:C	2.35	0.47
3:D:162:ARG:HE	3:D:452:ILE:CG2	2.28	0.47
3:D:345:TYR:CE2	3:D:377:VAL:HA	2.50	0.47
3:D:388:HIS:O	3:D:390:PRO:HD3	2.14	0.47
3:D:729:HIS:HE2	3:D:935:LYS:HZ3	1.62	0.47
1:F:64:GLU:HB2	1:F:165:ILE:HG12	1.96	0.47
1:F:100:LEU:HD22	1:F:115:LEU:CD2	2.45	0.47
2:H:29:ALA:O	2:H:44:ILE:HD13	2.14	0.47
2:H:163:ILE:HD13	2:H:171:TRP:CD1	2.49	0.47
2:H:193:LEU:CD1	2:H:193:LEU:N	2.75	0.47
2:H:390:GLN:H	2:H:390:GLN:NE2	2.13	0.47
2:H:755:LEU:HG	2:H:790:LEU:O	2.13	0.47
2:H:905:ILE:HD12	2:H:905:ILE:N	2.30	0.47
2:H:987:ILE:CG2	3:I:948:THR:HG21	2.37	0.47
2:H:1087:VAL:O	2:H:1091:GLU:HG3	2.15	0.47
3:I:187:LYS:HD3	3:I:199:LEU:HA	1.97	0.47
3:I:452:ILE:HG12	3:I:453:ASP:O	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:499:VAL:HG12	3:I:503:LEU:CD1	2.45	0.47
3:I:670:VAL:HG13	3:I:671:LYS:N	2.24	0.47
3:I:800:LYS:HD3	3:I:802:ALA:C	2.35	0.47
3:I:871:LYS:HD2	3:I:871:LYS:N	2.29	0.47
3:I:936:TYR:HD1	3:I:937:TYR:CD1	2.32	0.47
3:I:1098:LEU:HD21	3:I:1226:ALA:HA	1.97	0.47
3:I:1320:GLU:HG3	3:I:1321:ALA:N	2.30	0.47
2:M:679:PHE:O	2:M:681:GLY:N	2.48	0.47
2:M:1036:GLU:CD	2:M:1036:GLU:N	2.68	0.47
2:M:1056:LYS:HB3	3:N:623:VAL:HG12	1.95	0.47
2:M:1081:VAL:HG13	2:M:1085:PHE:HD1	1.79	0.47
3:N:112:ILE:CB	3:N:512:MET:HE3	2.40	0.47
3:N:116:LEU:HG	3:N:464:LEU:HD21	1.96	0.47
3:N:505:SER:OG	3:N:1453:ALA:HA	2.15	0.47
3:N:941:PHE:C	3:N:943:THR:N	2.68	0.47
3:N:1083:ASP:O	3:N:1087:ARG:HG2	2.13	0.47
3:N:1144:LEU:HD22	3:N:1186:VAL:HG11	1.96	0.47
4:O:54:LEU:CG	4:O:58:PRO:HB3	2.43	0.47
1:A:61:VAL:HG23	1:A:68:ILE:HD11	1.97	0.47
1:A:138:LEU:HG	1:A:138:LEU:O	2.14	0.47
1:B:85:LEU:HD12	1:B:124:ASN:HD22	1.78	0.47
1:B:124:ASN:HD21	1:B:127:LEU:HD12	1.77	0.47
1:B:185:ARG:HB2	3:D:720:LEU:HD23	1.97	0.47
2:C:41:ASN:HA	2:C:45:GLN:CD	2.34	0.47
2:C:177:GLU:CD	2:C:179:ASN:HB3	2.35	0.47
2:C:181:VAL:HG12	2:C:182:VAL:O	2.14	0.47
2:C:196:LEU:CD2	2:C:200:LEU:HD21	2.44	0.47
2:C:218:VAL:C	2:C:220:GLY:H	2.18	0.47
2:C:304:LEU:HD11	2:C:308:ARG:HE	1.78	0.47
2:C:328:LEU:HB2	2:C:433:THR:CG2	2.45	0.47
2:C:425:PHE:HA	2:C:428:ARG:HD2	1.95	0.47
2:C:615:TYR:HB2	2:C:619:ARG:CG	2.44	0.47
2:C:684:PHE:O	2:C:685:GLU:C	2.53	0.47
2:C:713:ARG:HG3	2:C:758:ARG:NH2	2.29	0.47
2:C:913:GLU:O	2:C:916:GLU:HB3	2.14	0.47
2:C:944:LEU:HD11	2:C:963:LEU:HD23	1.97	0.47
3:D:44:LEU:HD21	3:D:545:ARG:HG2	1.96	0.47
3:D:86:ARG:O	3:D:86:ARG:HD3	2.14	0.47
3:D:212:ARG:CZ	3:D:388:HIS:NE2	2.78	0.47
3:D:417:PRO:HG3	3:D:431:VAL:HA	1.96	0.47
3:D:486:ARG:HA	3:D:489:ARG:CG	2.43	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:782:SER:OG	3:D:783:ARG:N	2.48	0.47
3:D:792:ILE:HG12	3:D:878:GLY:CA	2.44	0.47
3:D:804:LEU:HD11	3:D:830:ALA:C	2.34	0.47
3:D:963:TYR:HE2	3:D:1002:LYS:HB3	1.80	0.47
3:D:1087:ARG:HH21	3:D:1235:GLN:HE21	1.61	0.47
3:D:1330:ILE:HB	3:D:1347:TYR:OH	2.15	0.47
4:E:54:LEU:CG	4:E:58:PRO:HB3	2.45	0.47
1:F:38:ASN:HB3	1:F:39:PRO:HD3	1.97	0.47
1:F:55:SER:HB2	1:F:166:PRO:HA	1.97	0.47
1:F:64:GLU:O	1:F:64:GLU:HG2	2.13	0.47
1:F:78:ILE:O	1:F:81:ASN:N	2.48	0.47
1:F:189:ARG:HD2	1:F:191:ASP:OD1	2.14	0.47
1:G:175:ARG:N	1:G:200:TRP:O	2.48	0.47
2:H:34:VAL:HG11	2:H:38:LYS:NZ	2.30	0.47
2:H:44:ILE:HG22	2:H:45:GLN:N	2.29	0.47
2:H:178:PRO:C	2:H:180:GLY:H	2.18	0.47
2:H:311:PHE:HA	2:H:314:THR:OG1	2.14	0.47
2:H:496:ILE:HB	2:H:516:ARG:HD2	1.97	0.47
2:H:801:VAL:O	2:H:801:VAL:HG22	2.14	0.47
2:H:837:ASP:O	2:H:849:VAL:HG23	2.15	0.47
2:H:861:LEU:CD2	2:H:862:PRO:HD2	2.44	0.47
3:I:141:ILE:HG23	3:I:448:GLU:OE2	2.15	0.47
3:I:142:LEU:HB3	3:I:143:ASN:H	1.51	0.47
3:I:189:GLN:NE2	3:I:191:LEU:HD23	2.29	0.47
3:I:467:GLU:O	3:I:468:LEU:C	2.52	0.47
3:I:561:GLY:C	3:I:563:PRO:HD3	2.35	0.47
3:I:636:GLN:NE2	3:I:637:LEU:HB2	2.27	0.47
3:I:729:HIS:CG	3:I:730:PRO:HD2	2.49	0.47
3:I:764:LEU:HD23	3:I:767:HIS:CE1	2.50	0.47
3:I:850:LEU:HD12	3:I:850:LEU:N	2.16	0.47
3:I:864:VAL:HG12	3:I:865:THR:N	2.15	0.47
3:I:890:VAL:HA	3:I:926:LYS:HE3	1.95	0.47
3:I:1047:LYS:HZ1	3:I:1053:PHE:HA	1.78	0.47
3:I:1379:VAL:HB	3:I:1418:LYS:C	2.35	0.47
3:I:1422:MET:CE	3:I:1427:SER:HA	2.45	0.47
3:I:1441:GLN:HG2	3:I:1442:ASN:H	1.80	0.47
4:J:41:GLU:N	4:J:42:PRO:CD	2.78	0.47
1:K:48:ILE:N	1:K:48:ILE:HD12	2.29	0.47
1:K:101:LEU:HD21	1:K:113:ASP:HB3	1.95	0.47
1:K:117:VAL:O	1:K:117:VAL:HG12	2.14	0.47
1:K:229:GLN:HG3	1:K:230:ALA:N	2.25	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:72:ARG:O	2:M:73:LEU:HB3	2.15	0.47
2:M:129:ILE:N	2:M:129:ILE:HD12	2.30	0.47
2:M:145:GLY:HA3	2:M:276:LYS:CG	2.45	0.47
2:M:178:PRO:C	2:M:180:GLY:N	2.67	0.47
2:M:196:LEU:CD2	2:M:200:LEU:HD11	2.45	0.47
2:M:269:LEU:HG	2:M:285:LEU:CD2	2.45	0.47
2:M:331:ARG:NH2	2:M:427:VAL:CG2	2.74	0.47
2:M:639:GLN:O	2:M:641:PRO:HD3	2.15	0.47
2:M:860:HIS:CE1	2:M:977:GLY:HA2	2.49	0.47
3:N:112:ILE:HG23	3:N:113:GLY:N	2.30	0.47
3:N:135:LEU:HG	3:N:149:LYS:O	2.15	0.47
3:N:153:LEU:HD13	3:N:158:TYR:HB2	1.97	0.47
3:N:493:ARG:HG3	3:N:494:LYS:N	2.30	0.47
3:N:651:GLU:C	3:N:653:PHE:H	2.16	0.47
3:N:766:ALA:CB	4:O:2:ALA:HA	2.45	0.47
3:N:957:PRO:HG2	3:N:1007:VAL:HA	1.97	0.47
3:N:1062:ARG:HD2	3:N:1062:ARG:O	2.14	0.47
3:N:1197:ARG:CG	3:N:1198:TYR:H	2.21	0.47
3:N:1374:GLN:HE22	3:N:1377:LYS:HD2	1.80	0.47
5:X:6:LYS:HD2	5:X:85:LEU:HD12	1.94	0.47
5:X:114:ASP:HB2	5:X:118:LYS:HG3	1.97	0.47
5:X:123:SER:O	5:X:126:GLY:N	2.47	0.47
5:Y:19:LEU:HD21	5:Y:66:GLU:HG2	1.97	0.47
5:Y:44:GLU:C	5:Y:45:ASN:OD1	2.53	0.47
5:Z:89:VAL:HA	5:Z:154:ILE:HG23	1.97	0.47
5:Z:109:GLU:O	5:Z:110:ALA:C	2.52	0.47
5:Z:115:THR:HB	5:Z:116:PRO:CD	2.43	0.47
1:A:45:LEU:HG	1:A:174:VAL:CB	2.44	0.47
1:A:128:HIS:NE2	1:A:131:THR:HG23	2.30	0.47
1:B:147:GLY:HA3	1:B:171:PHE:CE2	2.49	0.47
1:B:201:THR:HG22	1:B:202:ASP:N	2.30	0.47
2:C:129:ILE:HD13	2:C:134:ARG:HG3	1.96	0.47
2:C:205:GLU:HA	2:C:209:ARG:NH1	2.29	0.47
2:C:335:THR:O	2:C:339:LEU:HG	2.15	0.47
2:C:700:TYR:O	2:C:833:LEU:HD13	2.15	0.47
2:C:879:ARG:HB3	2:C:881:ASN:HD21	1.80	0.47
2:C:911:GLU:HG3	3:D:951:ILE:HD11	1.97	0.47
3:D:15:PRO:O	3:D:18:ILE:HB	2.14	0.47
3:D:496:LEU:HA	3:D:499:VAL:CG2	2.45	0.47
3:D:501:ALA:HB1	3:D:1452:ILE:CG2	2.42	0.47
3:D:1109:GLU:OE2	3:D:1201:CYS:SG	2.73	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:80:LEU:HD21	3:I:867:ARG:CZ	2.44	0.47
2:H:157:ARG:HE	2:H:314:THR:HB	1.79	0.47
2:H:163:ILE:HG12	2:H:171:TRP:NE1	2.29	0.47
2:H:230:ARG:HB3	2:H:233:GLU:HB2	1.96	0.47
2:H:410:ILE:O	2:H:452:ILE:HG23	2.15	0.47
3:I:33:ASN:HD22	3:I:34:TYR:H	1.62	0.47
3:I:118:LEU:HD22	3:I:123:LEU:HD23	1.96	0.47
3:I:119:SER:HB2	3:I:123:LEU:CB	2.38	0.47
3:I:162:ARG:NH1	3:I:450:TYR:HB3	2.29	0.47
3:I:209:ARG:NH2	3:I:390:PRO:O	2.45	0.47
3:I:660:LYS:HG3	3:I:664:LYS:CE	2.41	0.47
3:I:702:LEU:O	3:I:713:ILE:HA	2.14	0.47
3:I:710:ARG:C	3:I:712:GLY:H	2.16	0.47
3:I:841:TYR:HB2	3:I:864:VAL:HG13	1.96	0.47
3:I:943:THR:OG1	3:I:944:THR:N	2.48	0.47
3:I:1149:LEU:HD21	3:I:1164:ARG:HB3	1.96	0.47
3:I:1229:ILE:C	3:I:1232:PRO:HD2	2.35	0.47
3:I:1262:LEU:HD21	3:I:1351:GLU:HG3	1.96	0.47
1:L:92:PRO:O	1:L:146:ARG:NH2	2.48	0.47
2:M:425:PHE:CE2	3:N:1082:ALA:HB1	2.49	0.47
2:M:575:GLN:HG3	2:M:670:GLN:HG2	1.96	0.47
2:M:628:PHE:CD1	2:M:638:ASP:HB3	2.50	0.47
2:M:1071:ILE:O	3:N:659:LYS:HD2	2.15	0.47
3:N:361:VAL:HG12	3:N:383:GLY:N	2.30	0.47
3:N:652:LEU:C	3:N:653:PHE:CD1	2.88	0.47
3:N:867:ARG:HA	3:N:871:LYS:O	2.15	0.47
3:N:989:TYR:OH	3:N:1052:THR:O	2.33	0.47
3:N:1256:LEU:N	3:N:1257:PRO:CD	2.78	0.47
5:Z:26:LEU:HA	5:Z:58:ASN:ND2	2.29	0.47
1:A:37:GLY:HA2	1:A:197:LEU:HD11	1.97	0.47
1:A:133:GLU:OE2	2:C:605:LYS:HG2	2.15	0.47
1:B:57:TYR:HE1	1:B:163:ASN:ND2	2.07	0.47
1:B:78:ILE:O	1:B:82:LEU:HG	2.14	0.47
2:C:69:LEU:HB2	2:C:97:ARG:O	2.15	0.47
2:C:118:ILE:HD12	2:C:118:ILE:O	2.15	0.47
2:C:470:PRO:HB2	2:C:534:VAL:HG21	1.95	0.47
2:C:532:MET:HG2	2:C:533:ASP:N	2.29	0.47
2:C:1014:SER:CB	2:C:1019:GLN:H	2.21	0.47
2:C:1089:VAL:O	2:C:1093:GLN:HG2	2.14	0.47
3:D:650:LEU:HD13	3:D:688:TRP:HZ3	1.77	0.47
3:D:980:MET:HA	5:X:142:THR:CG2	2.45	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:990:ASP:HA	3:D:993:LEU:HD12	1.96	0.47
1:F:195:LEU:HD12	1:F:196:THR:H	1.79	0.47
1:G:111:ALA:O	1:G:114:PHE:HD1	1.98	0.47
2:H:9:ILE:HG13	2:H:9:ILE:O	2.14	0.47
2:H:47:ALA:O	2:H:50:GLU:HB2	2.15	0.47
2:H:604:ALA:HB3	2:H:612:VAL:O	2.15	0.47
3:I:202:VAL:HG11	3:I:445:ARG:HH21	1.78	0.47
3:I:895:VAL:HA	3:I:898:GLU:HG2	1.97	0.47
3:I:996:TRP:HA	3:I:999:THR:CG2	2.42	0.47
3:I:1256:LEU:HD12	3:I:1259:VAL:CG2	2.44	0.47
3:I:1434:TRP:CE3	3:I:1457:ASP:HB2	2.49	0.47
1:L:81:ASN:ND2	1:L:129:ILE:HD13	2.30	0.47
1:L:207:PRO:O	1:L:210:ALA:HB3	2.15	0.47
2:M:676:ILE:HG13	2:M:873:PRO:HG3	1.96	0.47
2:M:949:LYS:HD3	3:N:796:ARG:NH2	2.30	0.47
3:N:11:ALA:HB2	3:N:1454:GLY:HA2	1.97	0.47
3:N:99:ALA:HB3	3:N:514:LEU:HD11	1.97	0.47
3:N:179:VAL:HG12	3:N:180:LYS:N	2.29	0.47
3:N:187:LYS:HB2	3:N:187:LYS:HE3	1.76	0.47
3:N:812:ALA:HA	3:N:816:HIS:HD1	1.80	0.47
3:N:1031:ASN:O	3:N:1035:ILE:HG12	2.15	0.47
3:N:1128:VAL:O	3:N:1129:THR:HG22	2.15	0.47
3:N:1348:LEU:HD13	3:N:1348:LEU:N	2.29	0.47
3:N:1438:ALA:O	3:N:1443:THR:HG22	2.14	0.47
5:X:102:VAL:CG1	5:X:103:GLN:N	2.78	0.47
5:Y:33:PHE:HZ	5:Y:52:ARG:HE	1.60	0.47
5:Z:94:PRO:HD3	5:Z:149:PHE:HA	1.96	0.47
1:A:55:SER:HB3	1:A:158:ILE:HG21	1.96	0.47
1:B:85:LEU:CD2	1:B:111:ALA:HB1	2.45	0.47
1:B:95:GLN:HA	1:B:146:ARG:HG2	1.96	0.47
2:C:135:VAL:C	2:C:136:ILE:HD12	2.36	0.47
2:C:437:ARG:O	2:C:438:ILE:HD12	2.14	0.47
2:C:984:GLU:O	3:D:946:GLY:HA3	2.15	0.47
2:C:1031:ARG:NH2	3:D:621:LYS:NZ	2.58	0.47
3:D:112:ILE:HB	3:D:512:MET:HE3	1.97	0.47
3:D:162:ARG:HE	3:D:452:ILE:CG1	2.20	0.47
3:D:704:ARG:HD3	3:D:738:ALA:HB2	1.97	0.47
3:D:818:ARG:O	3:D:821:VAL:N	2.48	0.47
3:D:877:PRO:HA	3:D:880:ILE:HG22	1.97	0.47
3:D:1299:PHE:CD2	3:D:1299:PHE:N	2.83	0.47
1:F:56:VAL:HG21	1:F:82:LEU:HD13	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:58:ILE:HG22	1:F:59:GLU:N	2.29	0.47
1:F:226:SER:OG	1:F:227:ASN:N	2.48	0.47
2:H:72:ARG:O	2:H:73:LEU:HB3	2.14	0.47
2:H:402:SER:HA	2:H:566:THR:HG23	1.96	0.47
2:H:408:ARG:NH2	2:H:456:ALA:O	2.47	0.47
2:H:520:GLU:O	2:H:522:VAL:HG23	2.15	0.47
2:H:1088:LEU:HG	3:I:613:ARG:HD2	1.96	0.47
3:I:199:LEU:HD21	3:I:397:LYS:HD2	1.97	0.47
3:I:477:LEU:HD12	3:I:499:VAL:HG21	1.97	0.47
3:I:704:ARG:HB2	3:I:736:PHE:HB3	1.97	0.47
3:I:988:ARG:HG3	3:I:988:ARG:NH1	2.29	0.47
3:I:1205:TYR:CE2	3:I:1215:VAL:HG21	2.49	0.47
1:K:60:ASP:HB2	1:K:68:ILE:CG2	2.44	0.47
2:M:274:ARG:O	2:M:277:ALA:HB3	2.15	0.47
2:M:563:ASN:O	2:M:566:THR:HB	2.15	0.47
2:M:973:VAL:HG12	2:M:974:LEU:N	2.29	0.47
3:N:213:VAL:O	3:N:342:PRO:HA	2.15	0.47
3:N:435:VAL:HG22	3:N:446:VAL:HG22	1.97	0.47
3:N:1117:TYR:HB3	3:N:1150:ALA:CB	2.44	0.47
3:N:1166:LEU:HD23	3:N:1166:LEU:N	2.19	0.47
3:N:1217:ILE:H	3:N:1217:ILE:CD1	2.11	0.47
3:N:1491:THR:O	3:N:1494:ALA:HB3	2.15	0.47
4:O:27:ALA:O	4:O:30:LEU:HB2	2.15	0.47
5:Y:5:VAL:HG11	5:Y:68:ILE:HG23	1.97	0.47
1:A:18:ARG:O	1:A:207:PRO:HD3	2.14	0.46
2:C:90:TYR:O	2:C:119:PRO:HA	2.15	0.46
2:C:137:VAL:HG22	2:C:138:SER:O	2.15	0.46
2:C:239:PHE:CD1	2:C:242:LEU:HD12	2.50	0.46
2:C:979:THR:HG23	2:C:981:GLU:H	1.79	0.46
3:D:709:HIS:C	3:D:1227:GLN:NE2	2.68	0.46
3:D:711:LEU:C	3:D:713:ILE:N	2.68	0.46
1:F:55:SER:CB	1:F:166:PRO:HA	2.45	0.46
1:F:171:PHE:O	1:F:172:SER:C	2.54	0.46
1:G:156:HIS:CE1	1:G:158:ILE:H	2.34	0.46
2:H:171:TRP:HH2	2:H:417:GLY:HA2	1.80	0.46
2:H:178:PRO:C	2:H:180:GLY:N	2.68	0.46
2:H:189:ARG:HG3	2:H:243:ARG:HD2	1.96	0.46
2:H:455:LEU:O	2:H:541:SER:HB2	2.15	0.46
2:H:688:ILE:HD13	2:H:847:GLY:HA3	1.96	0.46
3:I:185:VAL:HG11	3:I:191:LEU:HD21	1.97	0.46
3:I:426:LYS:O	3:I:428:LYS:HG3	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:539:ASP:O	3:I:540:LEU:C	2.54	0.46
3:I:1389:LEU:HD12	3:I:1390:LEU:HD22	1.97	0.46
1:L:37:GLY:HA2	1:L:197:LEU:HD11	1.96	0.46
2:M:113:VAL:HG11	2:M:373:VAL:CG2	2.45	0.46
2:M:167:LYS:C	2:M:169:GLY:H	2.18	0.46
2:M:508:ILE:CD1	2:M:529:VAL:HG21	2.44	0.46
2:M:731:GLU:C	2:M:733:ALA:H	2.18	0.46
2:M:749:VAL:HG11	2:M:755:LEU:HD23	1.93	0.46
2:M:1056:LYS:HB3	3:N:623:VAL:CG1	2.46	0.46
3:N:119:SER:HB3	3:N:123:LEU:N	2.27	0.46
3:N:133:ILE:HD12	3:N:158:TYR:CE2	2.50	0.46
3:N:152:LEU:HD12	3:N:152:LEU:C	2.35	0.46
3:N:761:ILE:CD1	4:O:20:THR:HA	2.36	0.46
3:N:815:ALA:O	3:N:818:ARG:N	2.48	0.46
3:N:925:GLU:O	3:N:928:ALA:HB3	2.15	0.46
3:N:1108:ARG:NE	3:N:1199:GLY:HA3	2.24	0.46
4:O:15:SER:O	4:O:18:ARG:HB3	2.15	0.46
1:A:179:PHE:CB	1:A:197:LEU:HG	2.45	0.46
2:C:200:LEU:HB3	2:C:300:ASP:OD1	2.16	0.46
2:C:226:VAL:HG13	2:C:227:PHE:HD1	1.80	0.46
2:C:442:GLU:HG3	2:C:442:GLU:O	2.16	0.46
2:C:833:LEU:HD11	2:C:996:LYS:HD3	1.96	0.46
2:C:1085:PHE:O	2:C:1089:VAL:HG23	2.15	0.46
3:D:168:THR:HG21	2:H:308:ARG:HD2	1.96	0.46
3:D:521:PRO:O	3:D:525:ARG:NH1	2.47	0.46
3:D:601:ARG:HD3	3:D:606:ILE:CD1	2.46	0.46
3:D:664:LYS:C	3:D:666:ILE:H	2.18	0.46
3:D:889:ALA:HB1	3:D:930:LEU:HA	1.96	0.46
3:D:1330:ILE:HG22	3:D:1331:ASP:H	1.77	0.46
3:D:1398:TRP:CE3	3:D:1417:TRP:HB3	2.51	0.46
1:F:43:ILE:HG13	1:F:44:LEU:N	2.30	0.46
1:G:115:LEU:HD12	1:G:115:LEU:O	2.15	0.46
2:H:3:ILE:O	2:H:3:ILE:HG13	2.15	0.46
2:H:135:VAL:O	2:H:392:SER:HA	2.15	0.46
2:H:467:ILE:N	2:H:467:ILE:HD12	2.29	0.46
2:H:516:ARG:HH21	3:I:1068:LEU:HD11	1.81	0.46
2:H:554:ASP:OD2	2:H:556:ASN:HB3	2.16	0.46
2:H:724:ARG:HB3	2:H:724:ARG:CZ	2.44	0.46
2:H:948:GLU:HB3	2:H:955:PRO:HG3	1.97	0.46
2:H:1002:GLU:HG3	2:H:1003:ASP:N	2.30	0.46
2:H:1103:ASP:CB	3:I:2:LYS:HG3	2.45	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:84:ILE:HD13	3:I:84:ILE:H	1.80	0.46
3:I:138:LYS:H	3:I:138:LYS:CD	2.28	0.46
3:I:138:LYS:H	3:I:138:LYS:CE	2.27	0.46
3:I:462:GLN:HG3	3:I:513:ILE:HG12	1.98	0.46
3:I:629:SER:OG	3:I:630:VAL:N	2.49	0.46
3:I:703:ASN:HB2	3:I:713:ILE:CG2	2.45	0.46
3:I:1148:VAL:HG21	3:I:1203:LYS:HA	1.96	0.46
3:I:1200:VAL:HG12	3:I:1201:CYS:H	1.79	0.46
3:I:1236:LEU:CB	3:I:1256:LEU:HB2	2.45	0.46
1:K:73:GLU:HB3	1:K:77:GLU:HG2	1.98	0.46
1:K:90:LEU:HD13	1:K:119:ASP:O	2.14	0.46
2:M:157:ARG:HA	2:M:157:ARG:NE	2.29	0.46
2:M:309:TYR:O	2:M:312:ALA:HB3	2.14	0.46
2:M:694:LEU:HD11	2:M:868:ASP:HB3	1.98	0.46
2:M:1046:ALA:HB1	3:N:1471:LEU:HG	1.97	0.46
3:N:524:LEU:HD12	3:N:524:LEU:HA	1.71	0.46
3:N:832:ARG:NE	3:N:832:ARG:HA	2.30	0.46
3:N:983:LEU:HB2	3:N:987:GLU:HB3	1.96	0.46
3:N:1149:LEU:HD21	3:N:1161:GLU:O	2.14	0.46
1:A:90:LEU:HB2	1:A:119:ASP:CG	2.34	0.46
1:A:102:LYS:HA	1:A:138:LEU:HD11	1.98	0.46
2:C:350:ARG:NH2	2:C:377:PRO:O	2.49	0.46
2:C:411:SER:HB2	2:C:452:ILE:HG12	1.98	0.46
2:C:516:ARG:CD	3:D:1068:LEU:HD22	2.45	0.46
2:C:676:ILE:O	2:C:677:MET:HB3	2.14	0.46
2:C:1105:LYS:HB2	2:C:1105:LYS:NZ	2.30	0.46
3:D:171:LEU:HG	3:D:392:SER:CA	2.31	0.46
3:D:633:VAL:HG22	3:D:634:GLY:N	2.31	0.46
3:D:692:GLU:HB2	3:D:720:LEU:HD11	1.96	0.46
3:D:1171:VAL:HA	3:D:1174:LEU:CD1	2.45	0.46
3:D:1242:HIS:C	3:D:1243:THR:HG22	2.34	0.46
3:D:1476:THR:HG21	4:E:20:THR:HG21	1.96	0.46
1:F:206:THR:OG1	1:F:207:PRO:CD	2.62	0.46
2:H:13:ILE:HD12	2:H:14:PRO:HD2	1.97	0.46
2:H:74:GLY:C	2:H:76:PRO:HD3	2.36	0.46
2:H:129:ILE:HG21	2:H:387:SER:HB3	1.96	0.46
2:H:154:ARG:NH1	2:H:154:ARG:HG2	2.30	0.46
2:H:536:PRO:HD2	2:H:537:LYS:NZ	2.30	0.46
2:H:580:MET:HB3	2:H:584:GLU:OE1	2.15	0.46
2:H:666:LEU:HD12	2:H:667:ALA:N	2.30	0.46
2:H:952:LEU:HD12	2:H:969:GLN:NE2	2.27	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:130:SER:OG	3:I:131:LYS:N	2.47	0.46
3:I:649:ALA:HA	3:I:652:LEU:CD2	2.46	0.46
3:I:767:HIS:HE1	4:J:2:ALA:HB1	1.80	0.46
3:I:1098:LEU:CG	3:I:1226:ALA:HA	2.45	0.46
3:I:1313:VAL:HG11	3:I:1325:LEU:HD12	1.96	0.46
3:I:1379:VAL:HG23	3:I:1380:GLU:N	2.30	0.46
1:L:13:VAL:HG12	1:L:14:ARG:N	2.30	0.46
1:L:54:THR:O	1:L:167:VAL:N	2.46	0.46
1:L:172:SER:O	1:L:174:VAL:N	2.48	0.46
1:L:221:HIS:HA	1:L:224:TYR:CD2	2.50	0.46
2:M:589:ARG:NH1	2:M:596:TYR:CE2	2.83	0.46
2:M:1036:GLU:CD	2:M:1036:GLU:H	2.19	0.46
3:N:171:LEU:HD21	3:N:175:VAL:O	2.15	0.46
3:N:704:ARG:CZ	3:N:705:ALA:HB3	2.44	0.46
3:N:1197:ARG:HG3	3:N:1198:TYR:N	2.29	0.46
3:N:1434:TRP:CG	3:N:1435:LEU:N	2.83	0.46
3:N:1485:GLN:CB	4:O:79:LEU:HD22	2.44	0.46
4:O:84:ARG:HD3	4:O:84:ARG:HA	1.79	0.46
5:X:29:ILE:HG23	5:X:33:PHE:HE2	1.80	0.46
5:Y:46:ALA:O	5:Y:50:GLU:HB2	2.15	0.46
5:Z:92:GLU:HB2	5:Z:152:VAL:HG23	1.97	0.46
1:A:101:LEU:O	1:A:140:MET:SD	2.73	0.46
2:C:72:ARG:O	2:C:73:LEU:HB3	2.16	0.46
2:C:554:ASP:HB2	2:C:880:MET:HG2	1.97	0.46
2:C:605:LYS:HB2	2:C:612:VAL:HG23	1.97	0.46
2:C:1050:GLN:HE21	3:D:1471:LEU:N	2.13	0.46
3:D:87:ARG:HA	3:D:521:PRO:CB	2.46	0.46
3:D:161:LEU:HD11	3:D:397:LYS:HZ2	1.81	0.46
3:D:806:PHE:HD1	3:D:812:ALA:HB3	1.81	0.46
3:D:984:THR:HG22	3:D:987:GLU:H	1.80	0.46
3:D:1237:THR:CG2	3:D:1238:MET:N	2.75	0.46
1:F:39:PRO:HA	1:G:35:THR:HG22	1.95	0.46
1:F:56:VAL:HG12	1:F:57:TYR:N	2.30	0.46
2:H:384:GLU:HG3	2:H:388:ARG:HB2	1.97	0.46
2:H:461:VAL:CG1	2:H:462:ASP:N	2.79	0.46
2:H:571:LEU:HD23	2:H:670:GLN:HE21	1.79	0.46
2:H:594:ALA:HB1	2:H:656:ALA:O	2.16	0.46
2:H:873:PRO:O	2:H:876:VAL:HG23	2.15	0.46
3:I:477:LEU:CD1	3:I:499:VAL:HG21	2.46	0.46
3:I:980:MET:HA	5:Y:142:THR:HG23	1.98	0.46
3:I:1277:ILE:HG12	3:I:1299:PHE:CZ	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:J:73:LEU:HD22	4:J:73:LEU:N	2.30	0.46
1:K:13:VAL:HG22	1:K:23:PHE:CD1	2.50	0.46
1:L:175:ARG:HH21	3:N:847:ASP:HB2	1.80	0.46
2:M:66:LEU:CD2	2:M:100:LEU:HD23	2.45	0.46
2:M:671:ASN:OD1	2:M:993:PHE:HD2	1.98	0.46
3:N:26:VAL:HG13	3:N:42:ASP:O	2.15	0.46
3:N:100:ALA:C	3:N:514:LEU:HD23	2.35	0.46
3:N:118:LEU:CD2	3:N:123:LEU:HD23	2.45	0.46
3:N:195:VAL:HG12	3:N:196:VAL:N	2.30	0.46
3:N:356:PRO:HG2	3:N:359:ALA:CB	2.44	0.46
3:N:756:GLN:HA	3:N:756:GLN:NE2	2.30	0.46
3:N:889:ALA:HB1	3:N:930:LEU:HA	1.97	0.46
3:N:1053:PHE:CZ	3:N:1072:ILE:HD12	2.51	0.46
3:N:1144:LEU:O	3:N:1145:TYR:C	2.52	0.46
3:N:1152:GLU:CG	3:N:1161:GLU:HA	2.43	0.46
3:N:1422:MET:HG3	3:N:1427:SER:OG	2.16	0.46
1:A:30:ARG:HH12	1:A:191:ASP:HB2	1.80	0.46
1:B:76:VAL:O	1:B:79:ILE:HG13	2.16	0.46
2:C:162:ILE:HG22	2:C:164:PRO:HD3	1.97	0.46
2:C:1042:ALA:HB2	3:D:1223:ILE:HG21	1.98	0.46
2:C:1088:LEU:CG	3:D:613:ARG:HD2	2.46	0.46
3:D:646:LYS:HD2	3:D:688:TRP:CZ2	2.50	0.46
3:D:731:LEU:HD22	3:D:779:ALA:CA	2.44	0.46
3:D:732:VAL:HB	3:D:736:PHE:HE1	1.80	0.46
3:D:1045:MET:CE	3:D:1073:SER:HA	2.45	0.46
3:D:1266:ARG:O	3:D:1268:PRO:HD3	2.16	0.46
3:D:1382:THR:HB	3:D:1416:ALA:O	2.15	0.46
1:F:11:PHE:HB2	1:G:224:TYR:O	2.15	0.46
1:G:90:LEU:HD23	1:G:91:ASN:N	2.30	0.46
1:G:227:ASN:HD22	1:G:227:ASN:N	2.12	0.46
2:H:54:ILE:HD11	2:H:356:ARG:HB2	1.96	0.46
2:H:708:TYR:HE1	2:H:827:VAL:HG11	1.81	0.46
2:H:975:TYR:HA	2:H:982:PRO:HA	1.98	0.46
3:I:440:VAL:HB	3:I:441:ARG:HD2	1.98	0.46
3:I:616:GLN:C	3:I:618:LEU:N	2.68	0.46
3:I:666:ILE:HG22	3:I:676:MET:HE2	1.96	0.46
3:I:765:SER:C	3:I:767:HIS:H	2.19	0.46
3:I:1264:GLU:OE2	3:I:1424:VAL:HG12	2.14	0.46
2:M:147:TYR:C	2:M:148:PHE:HD2	2.18	0.46
2:M:235:LEU:HD11	2:M:298:PHE:CZ	2.51	0.46
2:M:535:SER:OG	2:M:537:LYS:HD3	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:841:ASN:HD21	2:M:884:GLN:HG2	1.80	0.46
2:M:1050:GLN:HA	2:M:1053:LEU:CD2	2.46	0.46
3:N:415:VAL:HG13	3:N:419:ASP:HB2	1.96	0.46
3:N:911:LEU:O	3:N:914:LEU:HB3	2.15	0.46
5:X:19:LEU:HD21	5:X:23:ARG:NH2	2.31	0.46
5:X:36:ALA:O	5:X:39:GLU:HB2	2.15	0.46
5:Z:115:THR:CB	5:Z:116:PRO:CD	2.93	0.46
1:A:99:LEU:HB3	1:A:114:PHE:HD2	1.80	0.46
2:C:196:LEU:HD22	2:C:200:LEU:HD21	1.98	0.46
2:C:673:LEU:C	2:C:673:LEU:CD2	2.84	0.46
2:C:678:PRO:HD3	2:C:873:PRO:HG2	1.96	0.46
2:C:892:LEU:HD13	2:C:989:VAL:HG23	1.97	0.46
2:C:953:VAL:HG11	2:C:962:GLN:CG	2.45	0.46
2:C:1090:LYS:HA	2:C:1093:GLN:CG	2.45	0.46
3:D:138:LYS:H	3:D:138:LYS:CE	2.24	0.46
3:D:407:VAL:HG21	3:D:437:VAL:HG13	1.97	0.46
3:D:615:ARG:O	3:D:619:LEU:HG	2.15	0.46
3:D:892:ASP:OD2	3:D:894:LYS:HB2	2.16	0.46
3:D:971:LEU:HD11	3:D:992:ILE:HG23	1.96	0.46
4:E:31:LEU:HD12	4:E:32:ARG:HG3	1.96	0.46
4:E:47:LYS:CA	4:E:54:LEU:HB3	2.45	0.46
2:H:92:ALA:C	2:H:117:HIS:HB3	2.35	0.46
2:H:473:ARG:HA	2:H:531:PHE:HD1	1.81	0.46
2:H:583:LEU:N	2:H:584:GLU:OE2	2.49	0.46
2:H:685:GLU:HG2	3:I:739:ASP:CB	2.45	0.46
3:I:15:PRO:HB3	3:I:515:GLU:HG3	1.98	0.46
3:I:198:ARG:CZ	3:I:198:ARG:HA	2.46	0.46
3:I:356:PRO:O	3:I:385:VAL:HG21	2.15	0.46
3:I:365:ASP:H	3:I:379:ALA:CB	2.26	0.46
3:I:470:LEU:HD23	3:I:470:LEU:H	1.81	0.46
3:I:639:LEU:HD13	3:I:640:HIS:H	1.80	0.46
3:I:684:LYS:HB2	3:I:687:VAL:CG2	2.42	0.46
3:I:795:VAL:HG12	3:I:796:ARG:N	2.30	0.46
3:I:1036:ARG:C	3:I:1038:LEU:H	2.18	0.46
3:I:1108:ARG:O	3:I:1108:ARG:HG2	2.15	0.46
3:I:1189:ARG:HB3	3:I:1204:CYS:HA	1.98	0.46
3:I:1304:LYS:NZ	3:I:1304:LYS:HB3	2.31	0.46
3:I:1486:VAL:HG12	4:J:22:VAL:HG13	1.97	0.46
1:L:56:VAL:HG21	1:L:82:LEU:HD12	1.97	0.46
2:M:166:PRO:O	2:M:169:GLY:N	2.48	0.46
2:M:676:ILE:HD11	3:N:949:ILE:HB	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:834:GLN:H	2:M:837:ASP:CG	2.18	0.46
2:M:872:ASN:HD21	2:M:874:LEU:HB2	1.80	0.46
2:M:1086:ARG:HD2	3:N:88:TYR:CD2	2.51	0.46
2:M:1095:LEU:HB2	3:N:101:HIS:HE2	1.79	0.46
3:N:119:SER:CB	3:N:123:LEU:HB2	2.31	0.46
3:N:397:LYS:HG3	3:N:397:LYS:O	2.16	0.46
3:N:520:LEU:HG	3:N:521:PRO:CD	2.46	0.46
5:Z:19:LEU:HD21	5:Z:23:ARG:NH2	2.31	0.46
1:A:83:LYS:HB3	1:A:170:VAL:HG11	1.97	0.46
1:A:93:SER:O	1:A:95:GLN:N	2.47	0.46
1:B:190:THR:CG2	3:D:722:GLU:HG2	2.45	0.46
2:C:142:ARG:O	2:C:143:SER:C	2.54	0.46
2:C:164:PRO:CB	2:C:265:ARG:H	2.28	0.46
2:C:550:LEU:HG	3:D:1070:TYR:HE1	1.81	0.46
2:C:630:ARG:HD3	2:C:705:ILE:HB	1.98	0.46
2:C:642:ARG:NH1	2:C:642:ARG:HG2	2.30	0.46
3:D:148:GLU:HB3	3:D:151:GLN:HB3	1.98	0.46
3:D:378:ILE:CG2	3:D:379:ALA:N	2.78	0.46
3:D:696:HIS:CE1	4:E:54:LEU:HD11	2.50	0.46
3:D:835:SER:N	3:D:838:ARG:HD3	2.30	0.46
3:D:842:VAL:HG23	3:D:842:VAL:O	2.15	0.46
4:E:8:LYS:O	4:E:12:MET:HG2	2.15	0.46
1:G:110:LYS:HB2	1:G:112:ARG:HD3	1.97	0.46
2:H:437:ARG:HH22	2:H:488:ALA:HA	1.81	0.46
2:H:691:SER:HA	2:H:853:LEU:O	2.15	0.46
2:H:824:ARG:HG2	2:H:824:ARG:HH11	1.80	0.46
2:H:858:MET:HE2	2:H:859:PRO:CD	2.45	0.46
2:H:1039:ALA:CB	3:I:713:ILE:HD11	2.43	0.46
3:I:547:LEU:HG	3:I:548:ILE:HD12	1.98	0.46
2:M:89:THR:HG22	2:M:129:ILE:O	2.15	0.46
2:M:360:LEU:HD23	2:M:361:MET:N	2.31	0.46
2:M:674:VAL:HG22	2:M:675:ALA:N	2.31	0.46
2:M:1109:VAL:HG11	3:N:5:VAL:HG22	1.98	0.46
3:N:166:GLN:HE21	3:N:396:VAL:HG11	1.80	0.46
3:N:729:HIS:NE2	3:N:731:LEU:HD12	2.31	0.46
3:N:1464:GLU:HG2	3:N:1465:ASN:H	1.80	0.46
3:N:1490:LYS:HE3	4:O:39:VAL:HG12	1.97	0.46
5:Y:62:ILE:HG23	5:Y:63:ASP:N	2.30	0.46
1:A:30:ARG:HD2	3:D:855:HIS:HE1	1.81	0.46
1:A:170:VAL:HG23	1:A:170:VAL:O	2.15	0.46
2:C:104:ASP:O	2:C:105:THR:C	2.54	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:264:PRO:CB	2:C:289:THR:HB	2.44	0.46
2:C:367:LEU:CB	2:C:371:LYS:HG2	2.46	0.46
2:C:606:VAL:HG11	2:C:644:VAL:C	2.36	0.46
2:C:637:LEU:HD23	2:C:659:PRO:HG2	1.98	0.46
2:C:848:VAL:HG23	3:D:740:PHE:C	2.36	0.46
3:D:128:TYR:HE2	3:D:458:ALA:HA	1.79	0.46
3:D:162:ARG:HH21	3:D:452:ILE:CG2	2.29	0.46
3:D:563:PRO:CG	3:D:566:ILE:HD12	2.46	0.46
3:D:644:LEU:O	3:D:721:VAL:HG22	2.16	0.46
3:D:684:LYS:H	3:D:684:LYS:CD	2.28	0.46
3:D:1470:ARG:HG2	3:D:1470:ARG:HH11	1.79	0.46
3:D:1492:LEU:HD13	3:D:1492:LEU:C	2.36	0.46
1:G:176:ARG:NH2	3:I:884:ARG:NH1	2.64	0.46
2:H:467:ILE:HG22	2:H:467:ILE:O	2.14	0.46
2:H:479:VAL:HG22	2:H:506:ASN:HA	1.98	0.46
2:H:679:PHE:O	2:H:681:GLY:N	2.48	0.46
2:H:872:ASN:ND2	2:H:874:LEU:HG	2.31	0.46
2:H:1052:MET:HA	2:H:1052:MET:HE2	1.96	0.46
2:H:1107:ASN:ND2	3:I:2:LYS:HZ1	2.14	0.46
3:I:352:ASN:O	3:I:368:VAL:HG13	2.16	0.46
3:I:668:PRO:HD2	3:I:672:ALA:HB1	1.96	0.46
3:I:778:LEU:C	3:I:780:LYS:H	2.19	0.46
3:I:862:ASP:O	3:I:876:SER:HB2	2.16	0.46
2:M:199:VAL:HG11	2:M:235:LEU:HG	1.97	0.46
2:M:704:HIS:ND1	2:M:831:ARG:NH1	2.64	0.46
2:M:839:LEU:HB2	2:M:995:MET:O	2.15	0.46
2:M:861:LEU:HD23	2:M:862:PRO:N	2.30	0.46
2:M:890:LEU:HG	2:M:914:ILE:HD12	1.97	0.46
3:N:105:VAL:HG22	3:N:112:ILE:CG2	2.45	0.46
3:N:345:TYR:CE1	3:N:377:VAL:HG13	2.51	0.46
3:N:465:LEU:HD22	3:N:509:PRO:O	2.16	0.46
3:N:701:LEU:HD21	3:N:763:MET:SD	2.55	0.46
3:N:787:LEU:HD11	3:N:947:ILE:HG12	1.97	0.46
3:N:850:LEU:O	3:N:853:VAL:HB	2.16	0.46
3:N:964:LEU:HD23	3:N:964:LEU:C	2.36	0.46
3:N:1381:VAL:HG13	3:N:1398:TRP:HH2	1.79	0.46
3:N:1458:GLU:O	3:N:1460:ILE:N	2.46	0.46
4:O:36:LYS:NZ	4:O:45:ARG:HH22	2.14	0.46
4:O:70:THR:HG21	4:O:72:ARG:HE	1.80	0.46
5:X:76:GLU:HG2	5:X:76:GLU:O	2.15	0.46
5:Z:6:LYS:O	5:Z:7:LEU:HD23	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:79:ILE:HA	1:B:82:LEU:HG	1.98	0.46
2:C:168:ARG:O	2:C:263:ASP:HA	2.15	0.46
2:C:270:GLY:O	2:C:274:ARG:HB2	2.15	0.46
2:C:469:THR:OG1	2:C:470:PRO:HD2	2.16	0.46
2:C:572:ILE:HD13	2:C:573:ARG:N	2.17	0.46
2:C:1024:LYS:HG3	2:C:1025:ALA:H	1.81	0.46
3:D:470:LEU:H	3:D:470:LEU:CD2	2.27	0.46
3:D:539:ASP:HB3	3:D:600:LEU:HB3	1.97	0.46
3:D:719:VAL:HG13	3:D:720:LEU:HD22	1.97	0.46
3:D:1156:LEU:CD1	3:D:1176:LYS:HE3	2.46	0.46
3:D:1211:MET:HE1	3:D:1213:ARG:HB3	1.98	0.46
3:D:1330:ILE:CG2	3:D:1331:ASP:H	2.29	0.46
4:E:51:LEU:O	4:E:53:GLY:N	2.43	0.46
1:F:36:LEU:HD12	1:F:195:LEU:HD23	1.98	0.46
1:F:117:VAL:O	1:F:117:VAL:HG12	2.15	0.46
1:G:100:LEU:HB2	1:G:115:LEU:CD1	2.37	0.46
2:H:145:GLY:HA3	2:H:276:LYS:HG2	1.98	0.46
2:H:184:MET:HB2	2:H:193:LEU:CG	2.45	0.46
2:H:325:ILE:H	2:H:325:ILE:HD12	1.81	0.46
2:H:578:VAL:N	2:H:671:ASN:ND2	2.64	0.46
2:H:626:ARG:CB	2:H:639:GLN:HE22	2.29	0.46
2:H:950:LEU:HD12	2:H:952:LEU:CD2	2.46	0.46
3:I:892:ASP:OD2	3:I:895:VAL:N	2.48	0.46
3:I:1388:ARG:N	3:I:1391:GLU:OE2	2.49	0.46
1:K:26:GLU:OE1	1:K:194:LYS:HG3	2.15	0.46
1:L:99:LEU:HD23	1:L:100:LEU:H	1.81	0.46
2:M:333:ILE:HD11	2:M:410:ILE:HG21	1.98	0.46
2:M:582:GLY:N	2:M:584:GLU:OE2	2.48	0.46
2:M:756:VAL:HG22	2:M:790:LEU:CB	2.36	0.46
2:M:873:PRO:O	2:M:876:VAL:HG23	2.16	0.46
3:N:165:LYS:HZ2	3:N:397:LYS:HG2	1.81	0.46
3:N:484:PRO:HB3	3:N:488:ARG:HE	1.80	0.46
3:N:613:ARG:HD3	3:N:613:ARG:C	2.36	0.46
3:N:685:ASP:N	3:N:685:ASP:OD1	2.49	0.46
3:N:695:ILE:HG23	3:N:696:HIS:N	2.29	0.46
3:N:702:LEU:O	3:N:713:ILE:HA	2.15	0.46
3:N:736:PHE:O	3:N:738:ALA:N	2.49	0.46
3:N:1136:LYS:O	3:N:1140:ILE:HG12	2.15	0.46
4:O:80:VAL:HG13	4:O:81:PRO:HD2	1.98	0.46
1:A:208:LEU:O	1:A:211:LEU:HB3	2.15	0.46
1:B:85:LEU:HB2	1:B:127:LEU:CD1	2.45	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:206:THR:OG1	1:B:207:PRO:HD2	2.16	0.46
2:C:71:TYR:CD2	2:C:71:TYR:N	2.84	0.46
2:C:144:PRO:HG2	2:C:165:LEU:HB2	1.97	0.46
2:C:328:LEU:HB2	2:C:433:THR:HG21	1.98	0.46
2:C:471:TYR:N	2:C:483:VAL:HG13	2.27	0.46
2:C:550:LEU:CG	3:D:1070:TYR:HE1	2.28	0.46
2:C:967:PHE:HD1	2:C:972:VAL:HG12	1.80	0.46
3:D:563:PRO:CB	3:D:566:ILE:HD12	2.46	0.46
3:D:782:SER:O	3:D:786:ILE:HD13	2.16	0.46
3:D:810:GLU:HG3	3:D:811:GLU:N	2.31	0.46
3:D:843:PHE:CE2	3:D:849:ALA:HA	2.50	0.46
3:D:850:LEU:O	3:D:853:VAL:HB	2.15	0.46
3:D:1063:GLU:CD	3:D:1064:GLY:H	2.19	0.46
3:D:1175:ILE:O	3:D:1179:GLU:HG3	2.16	0.46
1:G:195:LEU:C	1:G:195:LEU:HD13	2.36	0.46
2:H:139:GLN:HE22	2:H:414:GLY:HA3	1.81	0.46
2:H:209:ARG:C	2:H:211:LEU:H	2.18	0.46
2:H:252:LYS:NZ	2:H:255:ALA:CB	2.78	0.46
2:H:690:ILE:HD13	2:H:691:SER:N	2.31	0.46
2:H:809:GLY:O	2:H:811:PRO:HD3	2.16	0.46
2:H:851:LYS:NZ	2:H:851:LYS:HB3	2.31	0.46
2:H:996:LYS:C	2:H:997:LEU:HD22	2.36	0.46
2:H:1000:MET:HG3	2:H:1001:VAL:N	2.25	0.46
3:I:582:LEU:O	3:I:604:THR:HG23	2.16	0.46
3:I:1152:GLU:HB2	3:I:1160:LEU:O	2.15	0.46
3:I:1213:ARG:HB2	3:I:1214:PRO:HD2	1.96	0.46
1:K:57:TYR:HB2	1:K:164:ALA:HB2	1.98	0.46
1:K:88:ARG:HB3	1:K:88:ARG:NH1	2.24	0.46
1:L:172:SER:C	1:L:174:VAL:H	2.18	0.46
2:M:68:PHE:C	2:M:69:LEU:HD23	2.37	0.46
2:M:895:TYR:HD1	2:M:991:GLN:OE1	1.99	0.46
3:N:399:ARG:NH1	3:N:430:ASP:HB2	2.31	0.46
3:N:485:SER:O	3:N:489:ARG:HB3	2.16	0.46
3:N:514:LEU:HD21	3:N:578:VAL:CG1	2.46	0.46
3:N:767:HIS:CD2	4:O:2:ALA:HB1	2.51	0.46
3:N:1188:VAL:CG2	3:N:1189:ARG:N	2.79	0.46
1:B:85:LEU:HA	1:B:124:ASN:ND2	2.29	0.45
2:C:274:ARG:NH1	2:C:285:LEU:N	2.64	0.45
2:C:603:VAL:HG21	2:C:647:GLN:HB3	1.98	0.45
2:C:750:LYS:HG3	2:C:751:PRO:CD	2.40	0.45
2:C:877:PRO:HG2	2:C:878:SER:H	1.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:45:PHE:HD1	3:D:522:PRO:HB3	1.80	0.45
3:D:145:VAL:CG2	3:D:146:PRO:HD2	2.46	0.45
2:H:136:ILE:HG22	2:H:136:ILE:O	2.14	0.45
2:H:139:GLN:O	2:H:333:ILE:HD13	2.16	0.45
2:H:477:GLY:HA2	2:H:508:ILE:HD12	1.97	0.45
2:H:674:VAL:HG23	2:H:871:LEU:HD23	1.98	0.45
3:I:453:ASP:O	3:I:454:ALA:HB2	2.16	0.45
3:I:615:ARG:O	3:I:619:LEU:HG	2.16	0.45
3:I:679:ARG:O	3:I:679:ARG:HG2	2.17	0.45
3:I:729:HIS:HB3	3:I:732:VAL:HG22	1.98	0.45
3:I:800:LYS:HD3	3:I:803:GLY:N	2.30	0.45
3:I:806:PHE:N	3:I:832:ARG:HG3	2.30	0.45
3:I:1118:ILE:HD13	3:I:1188:VAL:O	2.16	0.45
3:I:1240:THR:O	3:I:1241:PHE:C	2.54	0.45
3:I:1336:LEU:HD11	3:I:1341:PRO:HG3	1.98	0.45
3:I:1379:VAL:CG1	3:I:1395:LEU:HG	2.46	0.45
4:J:47:LYS:C	4:J:54:LEU:HB3	2.36	0.45
1:L:132:LEU:HD23	1:L:136:GLY:O	2.16	0.45
1:L:206:THR:HG22	1:L:209:GLU:CD	2.36	0.45
2:M:204:GLN:HB3	2:M:222:MET:HE3	1.98	0.45
2:M:428:ARG:HG2	2:M:428:ARG:HH11	1.80	0.45
2:M:487:THR:HG22	2:M:489:THR:H	1.81	0.45
2:M:500:ASN:O	2:M:501:THR:C	2.53	0.45
2:M:1048:THR:HA	3:N:755:ALA:HB1	1.97	0.45
3:N:547:LEU:HD11	3:N:578:VAL:HG22	1.97	0.45
3:N:669:ASN:O	3:N:672:ALA:HB3	2.16	0.45
3:N:1035:ILE:HA	3:N:1038:LEU:CD1	2.43	0.45
3:N:1256:LEU:HA	3:N:1259:VAL:HG23	1.97	0.45
3:N:1485:GLN:CB	4:O:79:LEU:HB2	2.46	0.45
5:Y:53:ARG:O	5:Y:56:TRP:HB3	2.16	0.45
1:A:123:MET:C	1:A:125:PRO:HD3	2.36	0.45
1:A:179:PHE:HB3	1:A:197:LEU:HG	1.98	0.45
1:B:56:VAL:HG21	1:B:82:LEU:HD12	1.98	0.45
2:C:328:LEU:CD1	2:C:328:LEU:H	2.28	0.45
2:C:483:VAL:CG1	2:C:484:VAL:N	2.79	0.45
2:C:551:GLU:OE2	2:C:910:LYS:NZ	2.49	0.45
2:C:1032:PHE:O	2:C:1036:GLU:HB2	2.17	0.45
2:C:1053:LEU:HG	2:C:1053:LEU:O	2.15	0.45
2:C:1063:ARG:HD2	2:C:1064:ASN:N	2.31	0.45
3:D:540:LEU:HD13	3:D:540:LEU:N	2.29	0.45
3:D:585:GLY:C	3:D:587:ARG:H	2.20	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:781:PRO:HB2	3:D:786:ILE:HD11	1.98	0.45
3:D:1106:VAL:CG1	3:D:1107:VAL:N	2.78	0.45
3:D:1401:GLU:OE2	3:D:1402:ALA:N	2.49	0.45
1:F:57:TYR:HB3	1:F:141:GLU:HG2	1.97	0.45
2:H:69:LEU:HD11	2:H:99:GLN:HG2	1.98	0.45
2:H:177:GLU:OE2	2:H:179:ASN:HB2	2.15	0.45
2:H:376:ARG:CB	2:H:377:PRO:HD3	2.46	0.45
2:H:382:ILE:HD12	2:H:382:ILE:N	2.31	0.45
2:H:435:TYR:HA	3:I:1071:PHE:CE2	2.51	0.45
2:H:443:THR:HG21	3:I:1078:ARG:CD	2.46	0.45
2:H:523:ILE:HG23	2:H:523:ILE:O	2.17	0.45
2:H:737:LEU:HD23	2:H:742:VAL:O	2.15	0.45
2:H:839:LEU:HB2	2:H:995:MET:O	2.16	0.45
2:H:926:PHE:HA	2:H:929:ARG:HG3	1.97	0.45
2:H:949:LYS:HD2	3:I:796:ARG:NH2	2.32	0.45
2:H:1042:ALA:N	3:I:1223:ILE:HD13	2.31	0.45
2:H:1087:VAL:HG13	2:H:1088:LEU:N	2.31	0.45
3:I:123:LEU:HD11	3:I:152:LEU:HD11	1.98	0.45
3:I:805:GLU:CD	3:I:805:GLU:H	2.19	0.45
3:I:871:LYS:N	3:I:871:LYS:CD	2.79	0.45
3:I:911:LEU:O	3:I:912:LYS:C	2.54	0.45
3:I:1295:GLU:HB3	3:I:1300:SER:CB	2.41	0.45
4:J:49:GLN:O	4:J:50:THR:C	2.53	0.45
2:M:65:VAL:C	2:M:100:LEU:HD22	2.37	0.45
2:M:69:LEU:HG	2:M:98:LEU:HA	1.98	0.45
2:M:516:ARG:HB3	2:M:516:ARG:CZ	2.46	0.45
2:M:574:ALA:HB1	2:M:667:ALA:HB3	1.97	0.45
2:M:859:PRO:O	2:M:867:VAL:HG13	2.15	0.45
2:M:1060:ILE:HG23	2:M:1061:GLU:N	2.32	0.45
2:M:1103:ASP:CG	2:M:1104:GLU:H	2.19	0.45
1:A:168:ASP:OD2	2:C:832:LYS:NZ	2.49	0.45
1:B:80:LEU:HD23	3:D:867:ARG:NH2	2.31	0.45
1:B:97:VAL:HG11	1:B:120:VAL:HG11	1.99	0.45
1:B:218:LEU:HD11	1:B:222:LEU:HD11	1.98	0.45
2:C:87:ASP:HA	2:C:131:GLY:CA	2.43	0.45
2:C:95:TYR:HA	2:C:114:PHE:HA	1.98	0.45
2:C:137:VAL:O	2:C:391:LEU:HD21	2.17	0.45
2:C:139:GLN:HE22	2:C:415:PRO:HD2	1.80	0.45
2:C:405:ARG:NH1	2:C:563:ASN:HA	2.31	0.45
2:C:568:ALA:HB2	2:C:995:MET:HE1	1.98	0.45
3:D:213:VAL:HG12	3:D:214:GLU:H	1.80	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:808:THR:OG1	3:D:809:PRO:HD3	2.16	0.45
3:D:970:LYS:HG3	3:D:971:LEU:N	2.30	0.45
3:D:1152:GLU:HG3	3:D:1160:LEU:O	2.16	0.45
3:D:1200:VAL:CG1	3:D:1201:CYS:N	2.79	0.45
3:D:1355:VAL:O	3:D:1359:GLN:HG2	2.16	0.45
1:G:57:TYR:C	1:G:58:ILE:HD13	2.36	0.45
2:H:396:ASP:O	2:H:403:SER:HA	2.17	0.45
2:H:795:GLY:O	2:H:796:GLU:HG2	2.16	0.45
2:H:1065:ALA:C	2:H:1077:PRO:HG2	2.36	0.45
3:I:32:ILE:CD1	3:I:39:PRO:HG3	2.47	0.45
3:I:843:PHE:O	3:I:866:VAL:HA	2.16	0.45
3:I:860:LEU:CG	3:I:861:GLN:HE22	2.29	0.45
3:I:947:ILE:O	3:I:947:ILE:CD1	2.64	0.45
3:I:982:PHE:HA	5:Y:125:MET:SD	2.57	0.45
3:I:1123:PHE:CD2	3:I:1184:GLN:HG3	2.51	0.45
3:I:1372:VAL:HA	3:I:1375:MET:CE	2.46	0.45
3:I:1441:GLN:HG2	3:I:1442:ASN:N	2.31	0.45
1:L:43:ILE:HG22	1:L:47:SER:HB2	1.98	0.45
1:L:54:THR:HG23	1:L:156:HIS:CE1	2.51	0.45
1:L:149:GLY:O	1:L:171:PHE:HD2	1.99	0.45
2:M:39:ARG:HH21	2:M:45:GLN:NE2	2.15	0.45
2:M:328:LEU:HD21	2:M:438:ILE:HD11	1.98	0.45
2:M:448:ASN:HD22	2:M:448:ASN:HA	1.56	0.45
2:M:477:GLY:HA2	2:M:508:ILE:CD1	2.46	0.45
2:M:896:PHE:CZ	2:M:925:TYR:HB2	2.51	0.45
3:N:991:GLN:HE21	3:N:991:GLN:CA	2.25	0.45
3:N:1346:ARG:HG3	3:N:1346:ARG:HH11	1.80	0.45
4:O:48:MET:CB	4:O:54:LEU:HB2	2.44	0.45
1:A:39:PRO:O	1:A:43:ILE:HG13	2.17	0.45
1:A:85:LEU:HD12	1:A:124:ASN:ND2	2.31	0.45
1:B:227:ASN:H	1:B:227:ASN:ND2	2.10	0.45
2:C:50:GLU:CD	2:C:345:ARG:HD2	2.36	0.45
2:C:94:LEU:HD22	2:C:95:TYR:O	2.17	0.45
2:C:127:PHE:CD1	2:C:136:ILE:HD13	2.51	0.45
2:C:163:ILE:O	2:C:163:ILE:HG12	2.15	0.45
2:C:333:ILE:HG23	2:C:334:ARG:N	2.30	0.45
2:C:1019:GLN:NE2	2:C:1057:SER:OG	2.43	0.45
2:C:1045:ALA:HB2	3:D:763:MET:SD	2.57	0.45
2:C:1078:GLU:CD	2:C:1078:GLU:N	2.70	0.45
3:D:137:PRO:HD2	3:D:453:ASP:O	2.17	0.45
3:D:141:ILE:CG2	3:D:142:LEU:N	2.79	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:379:ALA:O	3:D:380:GLU:HG3	2.15	0.45
3:D:783:ARG:HE	3:D:1029:ARG:CD	2.28	0.45
3:D:794:GLN:HG2	3:D:1017:PHE:HE2	1.80	0.45
3:D:987:GLU:OE1	5:X:120:SER:HB2	2.17	0.45
3:D:1330:ILE:N	3:D:1330:ILE:HD12	2.32	0.45
3:D:1464:GLU:HA	3:D:1467:ILE:HD11	1.99	0.45
3:D:1467:ILE:H	3:D:1467:ILE:HG13	1.44	0.45
1:F:79:ILE:CG1	1:F:80:LEU:N	2.79	0.45
1:G:206:THR:HG23	1:G:209:GLU:HG3	1.98	0.45
2:H:73:LEU:HB3	2:H:94:LEU:HA	1.99	0.45
2:H:91:GLN:HB3	2:H:117:HIS:CB	2.46	0.45
2:H:307:LEU:HD11	2:H:311:PHE:HE2	1.81	0.45
2:H:472:ARG:HA	2:H:483:VAL:HG22	1.99	0.45
2:H:569:VAL:O	2:H:571:LEU:N	2.49	0.45
2:H:710:ILE:HB	2:H:790:LEU:CD2	2.46	0.45
2:H:754:ILE:HA	2:H:791:ARG:HA	1.99	0.45
2:H:878:SER:HA	3:I:1034:GLN:NE2	2.30	0.45
2:H:926:PHE:HD1	2:H:929:ARG:HG3	1.80	0.45
2:H:1090:LYS:HG2	2:H:1112:PHE:HZ	1.81	0.45
3:I:199:LEU:HD23	3:I:200:ASP:H	1.79	0.45
3:I:789:LEU:CD1	3:I:934:LEU:HD22	2.45	0.45
3:I:804:LEU:CD2	3:I:829:VAL:HB	2.46	0.45
3:I:1434:TRP:CD1	3:I:1434:TRP:C	2.89	0.45
4:J:40:LEU:HD11	4:J:46:PRO:HD3	1.97	0.45
1:L:112:ARG:HB3	1:L:125:PRO:HB3	1.99	0.45
2:M:328:LEU:C	2:M:330:ASN:N	2.69	0.45
2:M:585:GLU:HG2	2:M:665:PHE:CE2	2.51	0.45
2:M:1052:MET:SD	2:M:1056:LYS:HD2	2.57	0.45
3:N:514:LEU:HD13	3:N:517:VAL:HG22	1.97	0.45
3:N:1107:VAL:O	3:N:1108:ARG:HB3	2.16	0.45
3:N:1129:THR:O	3:N:1131:SER:N	2.49	0.45
3:N:1192:LEU:HD11	3:N:1369:GLU:HG2	1.99	0.45
1:A:43:ILE:HG13	1:A:43:ILE:H	1.40	0.45
2:C:139:GLN:HA	2:C:411:SER:O	2.17	0.45
2:C:971:LYS:HB3	2:C:986:PRO:HB2	1.98	0.45
3:D:792:ILE:CG2	3:D:793:THR:N	2.79	0.45
3:D:863:VAL:HA	3:D:875:THR:O	2.17	0.45
3:D:893:GLU:O	3:D:896:ALA:HB3	2.17	0.45
3:D:964:LEU:HG	3:D:1058:ARG:HH22	1.81	0.45
3:D:977:ALA:HB1	3:D:983:LEU:HD21	1.99	0.45
3:D:1101:VAL:HG21	3:D:1424:VAL:HG23	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1148:VAL:H	3:D:1188:VAL:HG23	1.82	0.45
3:D:1167:SER:H	3:D:1170:ASP:CG	2.20	0.45
3:D:1256:LEU:N	3:D:1257:PRO:HD2	2.32	0.45
2:H:173:ASP:O	2:H:184:MET:HA	2.17	0.45
2:H:688:ILE:CD1	2:H:847:GLY:HA3	2.46	0.45
2:H:701:THR:HG23	2:H:832:LYS:CA	2.38	0.45
2:H:757:GLY:HA2	2:H:789:SER:HB2	1.99	0.45
2:H:1063:ARG:HD3	2:H:1063:ARG:C	2.36	0.45
2:H:1086:ARG:HG3	2:H:1086:ARG:HH11	1.81	0.45
3:I:185:VAL:HG13	3:I:189:GLN:OE1	2.17	0.45
3:I:407:VAL:HG11	3:I:437:VAL:HG13	1.99	0.45
3:I:718:PRO:O	3:I:719:VAL:CG2	2.65	0.45
3:I:767:HIS:HE1	4:J:3:GLU:H	1.64	0.45
3:I:804:LEU:HD23	3:I:829:VAL:HG12	1.98	0.45
1:L:80:LEU:HD23	3:N:844:ALA:HA	1.99	0.45
1:L:103:ALA:H	1:L:138:LEU:HD13	1.80	0.45
2:M:182:VAL:HB	2:M:193:LEU:HD22	1.99	0.45
2:M:862:PRO:CG	2:M:973:VAL:HB	2.47	0.45
2:M:1037:VAL:O	2:M:1040:LEU:N	2.49	0.45
3:N:200:ASP:CG	3:N:201:GLY:N	2.69	0.45
3:N:519:VAL:HG13	3:N:544:TYR:CZ	2.50	0.45
3:N:637:LEU:HD11	3:N:641:GLN:HB2	1.97	0.45
3:N:1275:SER:HB3	3:N:1325:LEU:CD2	2.45	0.45
3:N:1360:GLY:CA	5:Z:37:LEU:HD12	2.47	0.45
5:Y:42:LEU:O	5:Y:44:GLU:N	2.49	0.45
1:A:59:GLU:OE1	1:A:59:GLU:HA	2.16	0.45
1:B:165:ILE:HD13	1:B:165:ILE:H	1.79	0.45
2:C:44:ILE:N	2:C:44:ILE:CD1	2.79	0.45
2:C:73:LEU:CB	2:C:93:PRO:O	2.61	0.45
2:C:367:LEU:HB2	2:C:371:LYS:CB	2.47	0.45
3:D:473:LEU:HD12	3:D:473:LEU:N	2.30	0.45
3:D:474:GLU:HG3	3:D:496:LEU:HD11	1.99	0.45
3:D:794:GLN:HG2	3:D:1017:PHE:CE2	2.51	0.45
3:D:877:PRO:HA	3:D:880:ILE:CG2	2.45	0.45
1:F:74:ASP:OD1	1:F:76:VAL:HG23	2.17	0.45
2:H:113:VAL:CG1	2:H:373:VAL:HG11	2.47	0.45
2:H:140:ILE:O	2:H:141:HIS:HB3	2.17	0.45
2:H:144:PRO:HB2	2:H:265:ARG:CD	2.47	0.45
2:H:184:MET:HB2	2:H:193:LEU:CD1	2.47	0.45
2:H:592:LEU:O	2:H:592:LEU:HD22	2.17	0.45
2:H:647:GLN:O	2:H:649:VAL:HG13	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:832:LYS:O	2:H:833:LEU:C	2.54	0.45
3:I:541:ASN:O	3:I:542:ASP:C	2.55	0.45
3:I:800:LYS:HE2	3:I:830:ALA:CB	2.46	0.45
3:I:1307:LYS:H	3:I:1307:LYS:CD	2.30	0.45
3:I:1347:TYR:O	3:I:1351:GLU:HB2	2.16	0.45
1:L:179:PHE:HB3	1:L:197:LEU:HD21	1.98	0.45
2:M:54:ILE:HG12	2:M:64:LEU:CD2	2.47	0.45
2:M:73:LEU:HD13	2:M:73:LEU:C	2.36	0.45
2:M:144:PRO:HA	2:M:163:ILE:O	2.16	0.45
2:M:257:VAL:HG12	2:M:263:ASP:OD1	2.16	0.45
2:M:474:VAL:HG13	2:M:529:VAL:O	2.17	0.45
2:M:690:ILE:HD12	2:M:868:ASP:O	2.17	0.45
2:M:906:PHE:CE1	3:N:1067:VAL:HA	2.50	0.45
2:M:1044:GLY:HA3	4:O:17:TYR:HE1	1.81	0.45
2:M:1089:VAL:HG13	2:M:1099:VAL:CG1	2.47	0.45
3:N:84:ILE:HA	3:N:87:ARG:HG2	1.99	0.45
3:N:165:LYS:NZ	3:N:397:LYS:HG2	2.32	0.45
3:N:168:THR:CG2	3:N:394:LEU:HD22	2.41	0.45
3:N:550:ARG:NH1	3:N:573:MET:HB3	2.32	0.45
3:N:793:THR:HB	3:N:879:ARG:NH1	2.31	0.45
3:N:875:THR:OG1	3:N:879:ARG:HG3	2.16	0.45
3:N:1397:LYS:O	3:N:1400:VAL:HB	2.17	0.45
3:N:1422:MET:HB2	3:N:1426:LYS:HG2	1.99	0.45
3:N:1475:GLY:HA2	4:O:17:TYR:CE1	2.52	0.45
4:O:41:GLU:N	4:O:42:PRO:CD	2.80	0.45
5:X:37:LEU:CD2	5:X:48:TYR:HE2	2.26	0.45
5:X:81:GLU:OE2	5:X:134:VAL:HG23	2.17	0.45
5:Z:114:ASP:OD2	5:Z:118:LYS:HE2	2.17	0.45
5:Z:138:LEU:O	5:Z:148:GLU:HA	2.16	0.45
1:A:54:THR:CG2	1:A:158:ILE:HG12	2.46	0.45
1:B:42:ARG:HG2	1:B:42:ARG:HH11	1.82	0.45
1:B:80:LEU:CG	3:D:844:ALA:HB2	2.45	0.45
1:B:108:GLU:OE2	1:B:110:LYS:HG3	2.16	0.45
2:C:5:ARG:NH1	2:C:5:ARG:HB2	2.31	0.45
2:C:197:LEU:HA	2:C:200:LEU:HD12	1.99	0.45
2:C:355:VAL:HG23	2:C:372:LEU:CG	2.46	0.45
2:C:431:HIS:HB3	2:C:434:HIS:CD2	2.51	0.45
2:C:798:GLY:HA3	2:C:828:ALA:O	2.17	0.45
2:C:1090:LYS:HD2	3:D:90:MET:SD	2.56	0.45
3:D:89:ARG:C	3:D:521:PRO:HG3	2.36	0.45
3:D:639:LEU:CD1	3:D:766:ALA:HB2	2.47	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:827:ILE:H	3:D:827:ILE:HD12	1.82	0.45
3:D:1108:ARG:O	3:D:1108:ARG:CG	2.63	0.45
3:D:1283:ILE:HD12	3:D:1315:ASP:OD2	2.17	0.45
1:F:137:ARG:HH11	1:F:137:ARG:HG3	1.81	0.45
1:F:177:VAL:CG1	1:F:199:ILE:HD12	2.44	0.45
1:G:185:ARG:NH1	3:I:692:GLU:OE2	2.49	0.45
2:H:37:GLU:O	2:H:39:ARG:HG3	2.17	0.45
2:H:47:ALA:HB1	2:H:348:LEU:HD22	1.98	0.45
2:H:243:ARG:H	2:H:243:ARG:CD	2.30	0.45
2:H:292:ARG:HG2	2:H:299:LYS:HE2	1.98	0.45
2:H:524:VAL:HG12	2:H:525:SER:O	2.17	0.45
2:H:839:LEU:N	2:H:839:LEU:CD2	2.79	0.45
2:H:1013:TYR:CE1	2:H:1020:PRO:HG3	2.49	0.45
3:I:16:GLU:HA	3:I:19:ARG:HH12	1.81	0.45
3:I:675:ARG:HG3	3:I:675:ARG:NH1	2.31	0.45
3:I:785:ILE:HG22	3:I:789:LEU:HD11	1.98	0.45
3:I:1127:GLU:HG2	3:I:1128:VAL:N	2.32	0.45
3:I:1344:VAL:O	3:I:1348:LEU:HD22	2.16	0.45
3:I:1348:LEU:HD13	3:I:1348:LEU:N	2.32	0.45
3:I:1394:VAL:HG12	3:I:1396:GLU:H	1.82	0.45
1:L:195:LEU:HD12	1:L:196:THR:N	2.31	0.45
2:M:151:ASP:OD2	2:M:152:PRO:HD2	2.17	0.45
2:M:175:GLU:HB3	2:M:183:SER:HB3	1.98	0.45
2:M:199:VAL:HG21	2:M:238:LEU:HD12	1.99	0.45
2:M:527:GLU:HG3	2:M:528:GLU:HG3	1.99	0.45
2:M:720:GLU:HA	2:M:759:THR:O	2.16	0.45
2:M:848:VAL:HG23	3:N:740:PHE:C	2.36	0.45
3:N:166:GLN:NE2	3:N:396:VAL:HG11	2.31	0.45
3:N:426:LYS:O	3:N:428:LYS:HG3	2.16	0.45
3:N:540:LEU:O	3:N:541:ASN:C	2.54	0.45
3:N:546:ARG:HH11	3:N:546:ARG:CB	2.07	0.45
3:N:941:PHE:O	3:N:943:THR:N	2.50	0.45
3:N:1481:VAL:O	3:N:1483:PHE:N	2.50	0.45
4:O:73:LEU:H	4:O:73:LEU:CD2	2.19	0.45
1:A:206:THR:N	1:A:209:GLU:HG3	2.30	0.45
2:C:572:ILE:HG12	2:C:573:ARG:HG3	1.99	0.45
2:C:692:GLU:HB3	2:C:854:PRO:HA	1.99	0.45
2:C:744:ARG:CG	2:C:747:ALA:HB2	2.37	0.45
2:C:808:ARG:O	2:C:810:ASP:N	2.50	0.45
2:C:937:ASP:CB	2:C:940:GLU:HG3	2.47	0.45
2:C:944:LEU:O	2:C:947:ALA:HB3	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1100:GLN:HA	2:C:1100:GLN:NE2	2.31	0.45
3:D:355:VAL:HG13	3:D:356:PRO:HD2	1.99	0.45
3:D:447:VAL:O	3:D:447:VAL:HG13	2.17	0.45
3:D:710:ARG:C	3:D:712:GLY:H	2.20	0.45
3:D:873:LEU:HD23	3:D:874:GLU:H	1.82	0.45
3:D:951:ILE:O	3:D:951:ILE:HG12	2.17	0.45
3:D:1047:LYS:NZ	3:D:1053:PHE:HA	2.32	0.45
3:D:1148:VAL:HG13	3:D:1163:GLY:HA2	1.98	0.45
3:D:1148:VAL:HG21	3:D:1203:LYS:HA	1.96	0.45
3:D:1283:ILE:HG23	3:D:1292:VAL:HG22	1.98	0.45
3:D:1381:VAL:HA	3:D:1398:TRP:HH2	1.82	0.45
2:H:100:LEU:O	2:H:101:ILE:HD13	2.16	0.45
2:H:135:VAL:HG11	2:H:406:HIS:O	2.17	0.45
2:H:332:ARG:NH1	2:H:338:GLU:CD	2.71	0.45
2:H:607:ASP:O	2:H:609:ASN:N	2.49	0.45
2:H:705:ILE:CG2	2:H:706:GLU:N	2.80	0.45
2:H:714:ASP:OD2	2:H:820:ARG:HD3	2.17	0.45
2:H:854:PRO:HG2	2:H:857:ASP:OD1	2.17	0.45
2:H:1096:ALA:O	2:H:1097:LEU:C	2.55	0.45
3:I:116:LEU:C	3:I:118:LEU:H	2.20	0.45
3:I:185:VAL:HG13	3:I:189:GLN:CD	2.36	0.45
3:I:704:ARG:HH11	3:I:738:ALA:CB	2.30	0.45
3:I:1084:THR:OG1	5:Y:43:ARG:HD3	2.16	0.45
1:K:70:GLY:H	2:M:607:ASP:CG	2.20	0.45
2:M:129:ILE:HD13	2:M:134:ARG:CG	2.43	0.45
2:M:186:VAL:HG23	2:M:186:VAL:O	2.17	0.45
2:M:267:TYR:N	2:M:267:TYR:HD2	2.15	0.45
2:M:404:LEU:HD22	2:M:591:SER:HB2	1.99	0.45
2:M:470:PRO:HB2	2:M:534:VAL:HG21	1.99	0.45
2:M:1066:ALA:N	2:M:1077:PRO:HG2	2.31	0.45
3:N:12:LEU:HD23	3:N:507:ASN:CB	2.45	0.45
3:N:811:GLU:O	3:N:815:ALA:N	2.47	0.45
3:N:1034:GLN:HA	3:N:1037:GLN:NE2	2.23	0.45
3:N:1115:THR:O	3:N:1115:THR:HG22	2.16	0.45
5:X:115:THR:CB	5:X:116:PRO:CD	2.91	0.45
5:Y:44:GLU:O	5:Y:45:ASN:HB3	2.17	0.45
5:Y:127:LYS:O	5:Y:127:LYS:HD3	2.16	0.45
5:Z:62:ILE:HG22	5:Z:63:ASP:N	2.31	0.45
5:Z:93:ASP:O	5:Z:97:GLY:N	2.47	0.45
5:Z:136:ASP:O	5:Z:150:ARG:HA	2.17	0.45
1:A:124:ASN:ND2	1:A:127:LEU:HB2	2.32	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:51:THR:HG21	1:B:87:VAL:HG22	1.99	0.45
1:B:71:VAL:HG22	1:B:132:LEU:CD2	2.47	0.45
2:C:498:GLN:OE1	2:C:516:ARG:NH2	2.50	0.45
2:C:722:ILE:HG22	2:C:821:GLU:OE1	2.16	0.45
2:C:892:LEU:CD1	2:C:989:VAL:HG23	2.46	0.45
2:C:1031:ARG:HH21	3:D:621:LYS:HZ2	1.60	0.45
2:C:1037:VAL:HG13	2:C:1049:LEU:HD11	1.98	0.45
3:D:475:LYS:O	3:D:479:GLU:HG2	2.16	0.45
4:E:41:GLU:N	4:E:42:PRO:CD	2.79	0.45
1:F:221:HIS:HA	1:F:224:TYR:HD2	1.81	0.45
1:G:52:ALA:CB	1:G:170:VAL:H	2.27	0.45
2:H:282:GLY:CA	2:H:305:PRO:HB3	2.47	0.45
2:H:339:LEU:HB3	2:H:385:PHE:CZ	2.51	0.45
2:H:395:LYS:HG2	2:H:397:GLU:CG	2.43	0.45
2:H:683:ASN:CA	2:H:687:ALA:HB3	2.45	0.45
2:H:861:LEU:HD22	2:H:863:ASP:OD1	2.16	0.45
3:I:366:LYS:NZ	3:I:378:ILE:HD12	2.32	0.45
3:I:705:ALA:CB	3:I:706:PRO:CD	2.91	0.45
3:I:956:ILE:HG12	3:I:1039:CYS:O	2.17	0.45
3:I:1291:SER:HB2	3:I:1302:GLU:OE2	2.17	0.45
1:L:143:ARG:HD3	1:L:160:ASP:OD1	2.17	0.45
2:M:165:LEU:HB3	2:M:265:ARG:NH1	2.32	0.45
2:M:325:ILE:HD12	2:M:325:ILE:N	2.31	0.45
2:M:457:ALA:HB3	2:M:538:GLN:HA	1.98	0.45
2:M:479:VAL:HG23	2:M:479:VAL:O	2.15	0.45
2:M:668:LEU:HD12	2:M:668:LEU:N	2.27	0.45
2:M:726:ILE:CG1	2:M:734:LEU:HD21	2.47	0.45
2:M:1035:MET:O	2:M:1038:TRP:HB2	2.16	0.45
2:M:1084:SER:O	2:M:1087:VAL:HG12	2.16	0.45
3:N:415:VAL:HG12	3:N:416:ALA:N	2.31	0.45
3:N:850:LEU:HD12	3:N:850:LEU:N	2.31	0.45
3:N:1283:ILE:CG2	3:N:1292:VAL:HG22	2.47	0.45
3:N:1488:ASP:O	3:N:1491:THR:N	2.50	0.45
4:O:6:ILE:O	4:O:9:LEU:HB2	2.17	0.45
5:X:13:GLU:HG2	5:X:17:GLN:NE2	2.32	0.45
5:Y:24:GLU:O	5:Y:27:GLN:HG2	2.17	0.45
1:B:14:ARG:HH11	1:B:14:ARG:HG3	1.82	0.45
2:C:472:ARG:O	2:C:531:PHE:HD1	2.00	0.45
2:C:477:GLY:HA2	2:C:508:ILE:HD11	1.99	0.45
2:C:1063:ARG:HD2	2:C:1063:ARG:C	2.38	0.45
2:C:1077:PRO:O	2:C:1079:PRO:HD3	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1095:LEU:HB3	3:D:603:LEU:CD1	2.31	0.45
3:D:8:VAL:HG12	3:D:1434:TRP:CZ2	2.51	0.45
3:D:148:GLU:O	3:D:150:ARG:N	2.50	0.45
3:D:459:GLU:O	3:D:462:GLN:HB3	2.17	0.45
3:D:1219:GLU:O	3:D:1221:VAL:N	2.46	0.45
3:D:1405:GLU:CD	3:D:1413:THR:H	2.19	0.45
1:F:84:GLU:HG2	1:F:127:LEU:HD13	1.99	0.45
1:G:38:ASN:O	1:G:41:ARG:HB3	2.17	0.45
1:G:58:ILE:HG13	1:G:61:VAL:HG21	1.99	0.45
2:H:45:GLN:OE1	2:H:49:ARG:NH2	2.50	0.45
2:H:211:LEU:HD22	2:H:221:LEU:HD11	1.98	0.45
2:H:384:GLU:O	2:H:388:ARG:HB2	2.16	0.45
2:H:1055:LEU:HG	2:H:1079:PRO:HG2	1.98	0.45
3:I:477:LEU:CD1	3:I:495:ARG:HG2	2.46	0.45
3:I:625:TYR:OH	3:I:655:PRO:HG2	2.17	0.45
3:I:1113:GLY:H	3:I:1195:GLN:HG2	1.82	0.45
3:I:1415:VAL:HG23	3:I:1417:TRP:CE3	2.51	0.45
3:I:1487:VAL:HG12	3:I:1488:ASP:H	1.81	0.45
1:K:35:THR:HG23	1:L:42:ARG:HB2	1.98	0.45
1:K:79:ILE:O	1:K:82:LEU:HB2	2.17	0.45
1:K:79:ILE:HA	1:K:82:LEU:HD12	1.98	0.45
2:M:63:GLY:HA3	2:M:103:LYS:HZ3	1.78	0.45
2:M:65:VAL:HB	2:M:101:ILE:O	2.17	0.45
2:M:257:VAL:HG12	2:M:263:ASP:OD2	2.17	0.45
2:M:294:GLU:OE2	2:M:295:ASP:HB2	2.16	0.45
2:M:333:ILE:HD11	2:M:410:ILE:CG2	2.47	0.45
2:M:479:VAL:HG11	2:M:503:LEU:CD1	2.45	0.45
2:M:516:ARG:HB3	2:M:516:ARG:NH1	2.32	0.45
2:M:606:VAL:O	2:M:606:VAL:HG23	2.17	0.45
3:N:720:LEU:HD22	3:N:720:LEU:N	2.31	0.45
3:N:727:GLN:HE21	3:N:727:GLN:HB3	1.66	0.45
3:N:823:LEU:HD23	3:N:823:LEU:N	2.32	0.45
3:N:982:PHE:HD2	3:N:983:LEU:N	2.15	0.45
3:N:999:THR:O	3:N:1003:VAL:HG13	2.17	0.45
3:N:1378:TYR:CE2	3:N:1394:VAL:HG22	2.52	0.45
4:O:36:LYS:C	4:O:37:ASN:HD22	2.19	0.45
5:X:111:ASN:ND2	5:X:113:LEU:HD12	2.32	0.45
1:A:78:ILE:H	1:A:78:ILE:HG12	1.46	0.44
1:B:53:VAL:HG13	1:B:142:VAL:CG2	2.47	0.44
1:B:199:ILE:HD13	1:B:211:LEU:HD11	1.99	0.44
2:C:331:ARG:HH12	2:C:427:VAL:HG13	1.80	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:630:ARG:HH21	2:C:706:GLU:CA	2.30	0.44
2:C:689:VAL:CG1	2:C:690:ILE:H	2.24	0.44
3:D:116:LEU:O	3:D:117:ASP:HB3	2.17	0.44
3:D:130:SER:O	3:D:568:ARG:CZ	2.65	0.44
3:D:167:GLU:OE2	3:D:198:ARG:HD2	2.17	0.44
3:D:707:THR:HG23	3:D:712:GLY:HA3	1.99	0.44
3:D:911:LEU:HD12	3:D:911:LEU:H	1.81	0.44
3:D:1152:GLU:HB2	3:D:1162:GLU:N	2.32	0.44
3:D:1231:GLU:CB	3:D:1232:PRO:HD3	2.47	0.44
3:D:1381:VAL:HG22	3:D:1398:TRP:HH2	1.81	0.44
4:E:40:LEU:HD12	4:E:40:LEU:O	2.17	0.44
1:F:20:TYR:HD2	1:F:21:GLY:H	1.64	0.44
1:F:199:ILE:HG22	1:F:200:TRP:N	2.32	0.44
2:H:281:LEU:HD12	2:H:306:THR:CA	2.47	0.44
2:H:339:LEU:HD13	2:H:391:LEU:CD1	2.45	0.44
2:H:404:LEU:O	2:H:407:LYS:HB2	2.17	0.44
2:H:435:TYR:HA	3:I:1071:PHE:HE2	1.83	0.44
3:I:105:VAL:O	3:I:106:LYS:HE2	2.17	0.44
3:I:366:LYS:HZ1	3:I:378:ILE:HD12	1.83	0.44
3:I:658:LEU:O	3:I:661:MET:HB2	2.17	0.44
3:I:718:PRO:C	3:I:719:VAL:HG23	2.38	0.44
3:I:752:SER:HB3	3:I:755:ALA:CB	2.47	0.44
3:I:1189:ARG:HG3	3:I:1189:ARG:HH11	1.82	0.44
3:I:1485:GLN:NE2	4:J:79:LEU:N	2.61	0.44
2:M:165:LEU:HD23	2:M:334:ARG:NH2	2.32	0.44
2:M:173:ASP:O	2:M:184:MET:HA	2.17	0.44
2:M:626:ARG:HH22	2:M:637:LEU:HD13	1.82	0.44
3:N:40:GLU:C	3:N:41:ARG:HG3	2.36	0.44
3:N:709:HIS:CD2	3:N:709:HIS:H	2.35	0.44
3:N:722:GLU:OE1	3:N:722:GLU:N	2.50	0.44
3:N:974:ILE:CG1	5:Z:113:LEU:HD21	2.47	0.44
3:N:988:ARG:CG	3:N:989:TYR:N	2.80	0.44
3:N:1117:TYR:C	3:N:1117:TYR:CD1	2.91	0.44
3:N:1468:LEU:CD2	3:N:1468:LEU:H	2.30	0.44
5:X:102:VAL:HG22	5:X:117:MET:O	2.16	0.44
5:Y:154:ILE:HG22	5:Y:154:ILE:O	2.17	0.44
5:Z:83:ILE:HD12	5:Z:132:HIS:HB2	1.99	0.44
5:Z:105:VAL:O	5:Z:121:ASP:N	2.50	0.44
1:A:20:TYR:HE2	1:A:198:ARG:HB2	1.81	0.44
1:A:206:THR:OG1	1:A:207:PRO:CD	2.65	0.44
1:B:37:GLY:HA3	1:B:179:PHE:HD1	1.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:48:ILE:HB	1:B:172:SER:OG	2.16	0.44
1:B:56:VAL:HG12	1:B:57:TYR:N	2.33	0.44
2:C:50:GLU:CG	2:C:51:THR:N	2.77	0.44
2:C:334:ARG:NH1	2:C:418:LEU:HD21	2.32	0.44
2:C:928:LYS:O	2:C:932:GLU:HG3	2.16	0.44
2:C:1087:VAL:HG13	2:C:1088:LEU:N	2.32	0.44
2:C:1094:ALA:HB3	3:D:603:LEU:HD21	1.99	0.44
2:C:1100:GLN:HA	2:C:1100:GLN:HE21	1.82	0.44
3:D:477:LEU:CD1	3:D:499:VAL:HG21	2.47	0.44
3:D:525:ARG:HG2	3:D:525:ARG:HH11	1.82	0.44
3:D:542:ASP:O	3:D:546:ARG:HG3	2.17	0.44
3:D:661:MET:HA	3:D:666:ILE:HD12	1.98	0.44
3:D:800:LYS:HZ2	3:D:804:LEU:CD1	2.30	0.44
4:E:49:GLN:CG	4:E:50:THR:N	2.72	0.44
1:F:55:SER:HA	1:F:167:VAL:CG2	2.46	0.44
1:G:14:ARG:HB3	1:G:22:GLU:HB2	1.99	0.44
2:H:38:LYS:O	2:H:40:GLU:N	2.50	0.44
2:H:111:ASP:O	2:H:112:GLU:C	2.56	0.44
2:H:328:LEU:N	2:H:328:LEU:HD12	2.32	0.44
2:H:352:ALA:O	2:H:355:VAL:HG13	2.17	0.44
2:H:741:GLY:O	2:H:756:VAL:HA	2.17	0.44
2:H:876:VAL:HG11	3:I:949:ILE:HG21	1.99	0.44
3:I:50:PHE:HD2	3:I:89:ARG:O	1.99	0.44
3:I:401:TYR:C	3:I:443:VAL:HG23	2.37	0.44
3:I:417:PRO:HG3	3:I:431:VAL:N	2.32	0.44
3:I:631:ILE:HG21	3:I:745:MET:HG3	1.99	0.44
3:I:702:LEU:HD23	3:I:716:PHE:HD1	1.82	0.44
3:I:868:TYR:O	3:I:870:GLY:N	2.51	0.44
3:I:1207:TYR:O	3:I:1208:ASP:O	2.35	0.44
3:I:1348:LEU:O	3:I:1351:GLU:N	2.51	0.44
1:K:199:ILE:CD1	1:K:207:PRO:HB3	2.46	0.44
2:M:249:LYS:HD2	2:M:250:ARG:H	1.81	0.44
2:M:291:ALA:O	2:M:292:ARG:HB3	2.16	0.44
2:M:334:ARG:HD3	2:M:339:LEU:HD23	1.98	0.44
3:N:101:HIS:CE1	3:N:582:LEU:HD22	2.52	0.44
3:N:119:SER:H	3:N:123:LEU:CD2	2.30	0.44
3:N:776:GLU:HA	3:N:777:PRO:HD3	1.83	0.44
3:N:890:VAL:HG11	3:N:922:LEU:HD13	1.98	0.44
3:N:922:LEU:CD1	3:N:926:LYS:HB3	2.37	0.44
3:N:1041:LEU:HD13	3:N:1057:VAL:O	2.17	0.44
3:N:1256:LEU:HD22	3:N:1259:VAL:CG2	2.47	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1481:VAL:CG1	4:O:18:ARG:HA	2.43	0.44
4:O:47:LYS:C	4:O:54:LEU:CB	2.85	0.44
5:X:42:LEU:N	5:X:42:LEU:HD12	2.32	0.44
5:X:104:VAL:HG21	5:X:129:LEU:HD12	1.99	0.44
1:A:156:HIS:CD2	1:A:156:HIS:N	2.85	0.44
2:C:226:VAL:HG13	2:C:227:PHE:CD1	2.53	0.44
2:C:273:GLY:O	2:C:274:ARG:C	2.55	0.44
2:C:343:GLN:HA	2:C:343:GLN:NE2	2.31	0.44
2:C:642:ARG:HG2	2:C:642:ARG:HH11	1.81	0.44
2:C:707:ARG:HH21	2:C:824:ARG:NH1	2.15	0.44
2:C:857:ASP:O	2:C:978:ARG:HG2	2.17	0.44
2:C:861:LEU:HD12	2:C:862:PRO:CD	2.47	0.44
3:D:347:VAL:HG13	3:D:351:MET:HB2	1.99	0.44
3:D:411:THR:OG1	3:D:437:VAL:HB	2.17	0.44
3:D:700:VAL:HG22	3:D:718:PRO:CG	2.48	0.44
3:D:729:HIS:CE1	3:D:731:LEU:H	2.33	0.44
3:D:1036:ARG:C	3:D:1038:LEU:H	2.20	0.44
3:D:1042:ARG:HH22	3:D:1061:PHE:HE1	1.66	0.44
3:D:1472:ILE:HA	3:D:1473:PRO:HD3	1.84	0.44
1:F:136:GLY:O	1:F:138:LEU:N	2.47	0.44
2:H:5:ARG:HE	2:H:902:ILE:HG21	1.81	0.44
2:H:44:ILE:O	2:H:47:ALA:HB3	2.18	0.44
2:H:217:LEU:HD22	2:H:217:LEU:N	2.20	0.44
2:H:226:VAL:HG13	2:H:227:PHE:N	2.32	0.44
2:H:238:LEU:O	2:H:241:LEU:HD22	2.17	0.44
2:H:332:ARG:NH1	2:H:338:GLU:OE1	2.51	0.44
2:H:1083:GLU:O	2:H:1087:VAL:HG12	2.17	0.44
3:I:133:ILE:CD1	3:I:158:TYR:CE2	3.00	0.44
3:I:711:LEU:C	3:I:713:ILE:N	2.71	0.44
3:I:1047:LYS:HG2	3:I:1053:PHE:CD1	2.52	0.44
3:I:1065:LEU:HD12	3:I:1069:GLU:OE1	2.17	0.44
3:I:1381:VAL:HG22	3:I:1398:TRP:CH2	2.52	0.44
1:K:84:GLU:HB3	1:K:127:LEU:HD11	1.99	0.44
1:K:224:TYR:CD1	1:L:9:PRO:HD2	2.53	0.44
1:L:80:LEU:HD23	3:N:867:ARG:NH2	2.32	0.44
2:M:412:ALA:C	2:M:419:THR:OG1	2.56	0.44
2:M:431:HIS:CE1	2:M:433:THR:HG1	2.35	0.44
2:M:737:LEU:HD22	2:M:743:VAL:HA	1.99	0.44
2:M:802:ARG:O	2:M:826:TYR:HB2	2.17	0.44
2:M:919:ALA:HB1	2:M:964:LYS:HZ1	1.83	0.44
3:N:414:ARG:HB2	3:N:414:ARG:NH1	2.23	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:765:SER:C	3:N:767:HIS:H	2.21	0.44
3:N:807:ALA:HB2	3:N:832:ARG:HG3	1.98	0.44
3:N:1379:VAL:HG12	3:N:1419:PRO:HA	1.99	0.44
4:O:40:LEU:O	4:O:40:LEU:HG	2.17	0.44
5:X:117:MET:HE3	5:X:117:MET:HB3	1.67	0.44
2:C:129:ILE:HG12	2:C:386:PHE:O	2.17	0.44
2:C:575:GLN:HE21	2:C:671:ASN:H	1.65	0.44
2:C:741:GLY:O	2:C:756:VAL:HA	2.17	0.44
2:C:864:GLY:O	2:C:865:THR:C	2.55	0.44
2:C:1046:ALA:HB1	3:D:1471:LEU:CD1	2.48	0.44
3:D:170:PRO:C	3:D:171:LEU:HD23	2.38	0.44
3:D:642:CYS:HB3	3:D:716:PHE:CG	2.52	0.44
3:D:1240:THR:CG2	3:D:1241:PHE:H	2.00	0.44
3:D:1330:ILE:HB	3:D:1347:TYR:CZ	2.51	0.44
1:F:101:LEU:HD11	1:F:113:ASP:HB2	1.99	0.44
1:G:205:VAL:HG23	1:G:209:GLU:CD	2.38	0.44
2:H:100:LEU:HD13	2:H:100:LEU:C	2.38	0.44
2:H:113:VAL:HG13	2:H:373:VAL:HG11	1.99	0.44
2:H:124:ASP:OD1	2:H:126:SER:HB3	2.17	0.44
2:H:516:ARG:NH2	3:I:1068:LEU:HD11	2.32	0.44
2:H:547:ILE:HD12	2:H:547:ILE:N	2.32	0.44
2:H:598:GLU:HB2	2:H:615:TYR:CE2	2.52	0.44
2:H:692:GLU:O	2:H:694:LEU:N	2.50	0.44
2:H:697:ARG:HD2	2:H:699:PHE:CE1	2.53	0.44
2:H:834:GLN:HB2	2:H:835:VAL:H	1.54	0.44
2:H:950:LEU:HD12	2:H:952:LEU:HD21	1.99	0.44
3:I:24:GLY:HA3	3:I:49:ILE:HG23	1.98	0.44
3:I:151:GLN:HG2	3:I:152:LEU:H	1.81	0.44
3:I:670:VAL:HG22	3:I:671:LYS:N	2.32	0.44
3:I:908:LYS:CB	3:I:1027:GLY:HA3	2.46	0.44
3:I:1031:ASN:HD21	5:Y:32:ASP:CA	2.30	0.44
3:I:1293:PHE:HD2	3:I:1300:SER:HB2	1.82	0.44
1:K:43:ILE:HD13	1:K:43:ILE:N	2.32	0.44
1:L:125:PRO:C	1:L:127:LEU:H	2.20	0.44
2:M:537:LYS:O	2:M:539:VAL:N	2.50	0.44
3:N:162:ARG:HG3	3:N:163:TYR:N	2.33	0.44
3:N:646:LYS:CD	3:N:647:ARG:NH1	2.79	0.44
3:N:700:VAL:C	3:N:701:LEU:HD12	2.37	0.44
3:N:799:LYS:HZ3	3:N:800:LYS:C	2.20	0.44
3:N:1036:ARG:C	3:N:1038:LEU:H	2.21	0.44
3:N:1114:THR:HG23	3:N:1114:THR:O	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:X:33:PHE:C	5:X:35:GLN:N	2.70	0.44
1:A:42:ARG:NH2	2:C:857:ASP:HB3	2.33	0.44
1:B:65:PHE:CD1	3:D:813:LEU:HD13	2.52	0.44
2:C:124:ASP:CA	2:C:592:LEU:HD12	2.47	0.44
2:C:274:ARG:HG3	2:C:285:LEU:HD22	2.00	0.44
2:C:700:TYR:HB3	2:C:833:LEU:CD1	2.41	0.44
3:D:6:ARG:O	3:D:7:LYS:HD3	2.17	0.44
3:D:8:VAL:O	3:D:1434:TRP:CH2	2.71	0.44
3:D:24:GLY:HA3	3:D:49:ILE:HG12	1.99	0.44
3:D:93:ILE:CD1	3:D:548:ILE:HD12	2.47	0.44
3:D:141:ILE:HD12	3:D:448:GLU:CG	2.41	0.44
3:D:356:PRO:O	3:D:385:VAL:HG21	2.18	0.44
3:D:1412:LYS:C	3:D:1414:PRO:HD3	2.38	0.44
3:D:1442:ASN:ND2	3:D:1444:THR:HB	2.32	0.44
1:G:206:THR:OG1	1:G:207:PRO:HD2	2.17	0.44
2:H:139:GLN:HE22	2:H:415:PRO:HD3	1.78	0.44
2:H:146:VAL:HG11	2:H:281:LEU:CD2	2.47	0.44
2:H:300:ASP:CG	2:H:300:ASP:O	2.55	0.44
2:H:544:THR:HA	2:H:547:ILE:HD13	1.98	0.44
2:H:723:THR:C	2:H:725:ASP:H	2.21	0.44
2:H:724:ARG:HH21	2:H:734:LEU:HB3	1.82	0.44
3:I:362:GLU:O	3:I:379:ALA:HB1	2.17	0.44
3:I:571:LYS:O	3:I:574:LEU:HB3	2.18	0.44
3:I:577:ALA:O	3:I:580:ALA:HB3	2.18	0.44
3:I:667:ALA:HA	3:I:668:PRO:HD3	1.87	0.44
3:I:709:HIS:HA	3:I:1227:GLN:HB3	1.98	0.44
3:I:1118:ILE:HG22	3:I:1119:SER:N	2.32	0.44
3:I:1223:ILE:O	3:I:1226:ALA:HB3	2.17	0.44
3:I:1372:VAL:O	3:I:1375:MET:N	2.48	0.44
3:I:1488:ASP:HB3	4:J:73:LEU:HD12	1.99	0.44
1:K:89:PHE:CD1	1:K:146:ARG:HD3	2.52	0.44
1:L:73:GLU:CG	1:L:78:ILE:HD11	2.48	0.44
2:M:409:ARG:HA	2:M:454:SER:OG	2.17	0.44
3:N:209:ARG:NH1	3:N:209:ARG:CG	2.75	0.44
3:N:493:ARG:NH1	3:N:1390:LEU:HB3	2.33	0.44
3:N:658:LEU:O	3:N:661:MET:HB2	2.17	0.44
3:N:911:LEU:O	3:N:914:LEU:N	2.50	0.44
3:N:925:GLU:HG2	3:N:926:LYS:N	2.32	0.44
3:N:974:ILE:HA	5:Z:112:VAL:HG21	1.99	0.44
3:N:977:ALA:C	3:N:982:PHE:HB3	2.38	0.44
3:N:1292:VAL:HG23	3:N:1305:LEU:CD2	2.47	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1404:ASN:CG	3:N:1408:ILE:HD13	2.38	0.44
2:C:181:VAL:HG12	2:C:182:VAL:N	2.33	0.44
2:C:260:LEU:H	2:C:293:PHE:HE2	1.65	0.44
2:C:537:LYS:C	2:C:539:VAL:H	2.21	0.44
2:C:833:LEU:HG	2:C:837:ASP:OD2	2.18	0.44
2:C:839:LEU:HA	2:C:997:LEU:CD2	2.47	0.44
3:D:102:ILE:HD11	3:D:106:LYS:HB2	1.99	0.44
3:D:407:VAL:HG21	3:D:437:VAL:HG11	2.00	0.44
3:D:636:GLN:OE1	3:D:636:GLN:N	2.43	0.44
3:D:637:LEU:HD11	3:D:642:CYS:N	2.32	0.44
3:D:677:LEU:HD22	3:D:677:LEU:N	2.33	0.44
3:D:1153:VAL:HG12	3:D:1155:VAL:HG23	1.99	0.44
3:D:1350:GLU:OE2	3:D:1357:ARG:NH1	2.51	0.44
3:D:1424:VAL:HG13	3:D:1425:THR:N	2.32	0.44
1:F:20:TYR:HD2	1:F:21:GLY:N	2.14	0.44
1:F:137:ARG:HG3	1:F:137:ARG:NH1	2.32	0.44
1:G:186:LEU:O	1:G:188:GLN:N	2.51	0.44
2:H:19:THR:C	2:H:23:VAL:HG23	2.38	0.44
2:H:104:ASP:O	2:H:105:THR:C	2.56	0.44
2:H:162:ILE:HG22	2:H:164:PRO:HD3	1.99	0.44
2:H:524:VAL:HG13	2:H:528:GLU:OE1	2.16	0.44
3:I:633:VAL:HG22	3:I:634:GLY:N	2.32	0.44
3:I:649:ALA:HA	3:I:652:LEU:CG	2.48	0.44
3:I:799:LYS:C	3:I:799:LYS:CD	2.84	0.44
3:I:947:ILE:H	3:I:947:ILE:CD1	2.16	0.44
3:I:989:TYR:CE2	3:I:993:LEU:HD11	2.53	0.44
3:I:1099:VAL:O	3:I:1101:VAL:N	2.51	0.44
3:I:1377:LYS:O	3:I:1377:LYS:HG2	2.17	0.44
4:J:47:LYS:HE3	4:J:55:PHE:CE2	2.51	0.44
1:K:122:ILE:HG23	1:K:124:ASN:H	1.83	0.44
2:M:29:ALA:O	2:M:44:ILE:HD13	2.18	0.44
2:M:384:GLU:O	2:M:388:ARG:HB2	2.17	0.44
2:M:851:LYS:HG2	2:M:852:ILE:H	1.83	0.44
3:N:126:VAL:O	3:N:132:TYR:HB2	2.17	0.44
3:N:150:ARG:NH1	3:N:468:LEU:HD21	2.33	0.44
3:N:828:LYS:NZ	3:N:828:LYS:HB2	2.32	0.44
3:N:848:GLU:HA	3:N:851:LEU:HD12	1.99	0.44
3:N:1304:LYS:H	3:N:1304:LYS:HD3	1.82	0.44
3:N:1487:VAL:HG12	3:N:1488:ASP:H	1.83	0.44
4:O:26:ARG:NH2	4:O:37:ASN:CB	2.80	0.44
5:Z:127:LYS:NZ	5:Z:140:LEU:HD21	2.33	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:79:ILE:HG13	1:B:80:LEU:H	1.82	0.44
2:C:9:ILE:HG12	2:C:907:ASP:CG	2.38	0.44
2:C:96:ALA:HB3	2:C:113:VAL:O	2.17	0.44
2:C:164:PRO:HB2	2:C:265:ARG:H	1.83	0.44
2:C:165:LEU:HG	2:C:166:PRO:CA	2.47	0.44
2:C:224:GLU:OE1	2:C:226:VAL:HG12	2.17	0.44
2:C:550:LEU:HG	3:D:1070:TYR:CE1	2.53	0.44
2:C:987:ILE:O	2:C:989:VAL:HG13	2.17	0.44
2:C:1006:HIS:H	3:D:628:ARG:HH12	1.66	0.44
3:D:162:ARG:C	3:D:162:ARG:HD3	2.37	0.44
3:D:563:PRO:HB2	3:D:566:ILE:HD12	1.99	0.44
3:D:827:ILE:O	3:D:837:GLY:N	2.49	0.44
3:D:1026:SER:C	3:D:1028:ALA:N	2.69	0.44
3:D:1094:LEU:HD21	3:D:1229:ILE:HG22	2.00	0.44
3:D:1094:LEU:O	3:D:1095:THR:C	2.56	0.44
3:D:1286:THR:HG22	3:D:1287:GLU:H	1.82	0.44
3:D:1356:TYR:HD2	3:D:1361:VAL:HG11	1.82	0.44
3:D:1451:ALA:O	3:D:1452:ILE:C	2.55	0.44
3:D:1481:VAL:O	3:D:1483:PHE:N	2.51	0.44
3:D:1490:LYS:HZ3	4:E:39:VAL:HG12	1.81	0.44
1:F:40:LEU:O	1:F:43:ILE:HG12	2.17	0.44
2:H:2:GLU:HG2	2:H:3:ILE:N	2.33	0.44
2:H:26:TYR:O	2:H:30:LEU:HG	2.18	0.44
2:H:98:LEU:N	2:H:98:LEU:CD2	2.65	0.44
2:H:292:ARG:HE	2:H:299:LYS:HE2	1.82	0.44
2:H:366:SER:C	2:H:367:LEU:HG	2.38	0.44
2:H:403:SER:O	2:H:407:LYS:HG3	2.18	0.44
2:H:574:ALA:HB1	2:H:667:ALA:HB3	1.99	0.44
2:H:720:GLU:OE2	2:H:758:ARG:HD2	2.17	0.44
2:H:1019:GLN:O	2:H:1021:LEU:N	2.46	0.44
3:I:100:ALA:CB	3:I:575:GLN:HE22	2.23	0.44
3:I:141:ILE:HG22	3:I:142:LEU:N	2.33	0.44
3:I:479:GLU:HA	3:I:483:HIS:CE1	2.53	0.44
3:I:620:GLY:O	3:I:621:LYS:HG2	2.18	0.44
3:I:637:LEU:HD11	3:I:642:CYS:N	2.33	0.44
3:I:680:GLN:N	3:I:680:GLN:CD	2.70	0.44
3:I:1156:LEU:HD12	3:I:1177:ALA:CA	2.48	0.44
4:J:47:LYS:HA	4:J:54:LEU:HB3	1.99	0.44
1:K:80:LEU:HD23	1:K:81:ASN:OD1	2.17	0.44
1:K:209:GLU:O	1:K:213:GLN:HG3	2.18	0.44
1:L:32:PHE:O	1:L:36:LEU:HD12	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:99:LEU:HD23	1:L:115:LEU:CD1	2.46	0.44
1:L:138:LEU:HD13	1:L:138:LEU:C	2.38	0.44
2:M:175:GLU:OE1	2:M:177:GLU:HG2	2.18	0.44
2:M:396:ASP:H	2:M:406:HIS:CD2	2.34	0.44
2:M:564:MET:CE	2:M:840:ALA:HB3	2.46	0.44
2:M:568:ALA:HB2	2:M:995:MET:CE	2.47	0.44
2:M:700:TYR:HB3	2:M:833:LEU:CD1	2.45	0.44
2:M:905:ILE:H	2:M:905:ILE:CD1	2.31	0.44
2:M:1037:VAL:HG13	2:M:1049:LEU:HD13	1.99	0.44
2:M:1042:ALA:HB2	3:N:1223:ILE:HB	1.98	0.44
3:N:345:TYR:CZ	3:N:377:VAL:HG22	2.53	0.44
3:N:659:LYS:HE3	3:N:659:LYS:CA	2.48	0.44
3:N:798:GLU:HG3	3:N:828:LYS:NZ	2.32	0.44
3:N:838:ARG:HD2	3:N:838:ARG:H	1.82	0.44
3:N:885:ILE:HD12	3:N:937:TYR:CZ	2.52	0.44
1:A:215:VAL:HG11	1:B:225:PHE:CD1	2.53	0.44
2:C:49:ARG:HH11	2:C:49:ARG:CB	2.29	0.44
2:C:80:GLN:O	2:C:81:ASP:C	2.55	0.44
2:C:250:ARG:C	2:C:252:LYS:H	2.21	0.44
2:C:272:ALA:O	2:C:276:LYS:NZ	2.38	0.44
2:C:317:VAL:O	2:C:317:VAL:HG12	2.18	0.44
2:C:406:HIS:HA	2:C:409:ARG:HG2	1.99	0.44
2:C:683:ASN:HB2	2:C:872:ASN:HB2	1.99	0.44
3:D:6:ARG:HA	3:D:6:ARG:HH11	1.82	0.44
3:D:447:VAL:O	3:D:449:SER:N	2.50	0.44
3:D:703:ASN:HB3	3:D:746:ALA:HB3	1.98	0.44
3:D:800:LYS:NZ	3:D:830:ALA:HB3	2.33	0.44
3:D:996:TRP:CE2	3:D:1056:PRO:HG2	2.52	0.44
3:D:1102:THR:CA	3:D:1105:ILE:HD13	2.41	0.44
3:D:1344:VAL:HG12	3:D:1348:LEU:HD21	2.00	0.44
3:D:1372:VAL:HA	3:D:1375:MET:HG3	2.00	0.44
3:D:1470:ARG:HG2	3:D:1470:ARG:NH1	2.32	0.44
3:D:1495:ILE:HG13	4:E:80:VAL:HG13	1.99	0.44
1:F:184:THR:HG22	1:F:192:LEU:O	2.18	0.44
2:H:158:TYR:CD1	2:H:313:LEU:HD13	2.53	0.44
2:H:431:HIS:ND1	2:H:432:ARG:N	2.66	0.44
2:H:578:VAL:N	2:H:671:ASN:HD21	2.16	0.44
2:H:616:GLU:C	2:H:618:GLY:H	2.21	0.44
2:H:654:LEU:H	2:H:654:LEU:CD2	2.26	0.44
2:H:1008:ARG:NH1	2:H:1011:GLY:N	2.66	0.44
3:I:475:LYS:O	3:I:479:GLU:HG2	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:483:HIS:HB2	3:I:484:PRO:CD	2.37	0.44
3:I:711:LEU:C	3:I:713:ILE:H	2.21	0.44
3:I:767:HIS:CE1	4:J:2:ALA:HB1	2.53	0.44
3:I:774:SER:OG	3:I:776:GLU:HG2	2.17	0.44
3:I:1031:ASN:O	3:I:1032:PRO:C	2.56	0.44
3:I:1219:GLU:HG3	3:I:1220:ALA:N	2.32	0.44
3:I:1401:GLU:OE2	3:I:1402:ALA:N	2.51	0.44
4:J:47:LYS:N	4:J:54:LEU:HD22	2.33	0.44
1:K:53:VAL:O	1:K:167:VAL:HB	2.18	0.44
1:K:195:LEU:HG	1:K:197:LEU:HD23	2.00	0.44
1:L:110:LYS:N	1:L:113:ASP:OD1	2.46	0.44
1:L:179:PHE:HB3	1:L:197:LEU:CG	2.48	0.44
2:M:524:VAL:CG1	2:M:528:GLU:HB2	2.48	0.44
2:M:710:ILE:HG22	2:M:823:VAL:HG12	1.99	0.44
2:M:988:VAL:HG11	3:N:949:ILE:O	2.18	0.44
2:M:1038:TRP:HD1	2:M:1041:GLU:OE1	2.01	0.44
3:N:153:LEU:CD1	3:N:153:LEU:C	2.86	0.44
3:N:204:LEU:HD21	3:N:441:ARG:NH1	2.33	0.44
3:N:618:LEU:HD21	3:N:1463:LYS:HZ1	1.83	0.44
3:N:650:LEU:HD13	3:N:691:LEU:HD22	1.99	0.44
3:N:661:MET:CE	3:N:673:ALA:HB1	2.38	0.44
3:N:832:ARG:HG3	3:N:833:GLU:OE1	2.18	0.44
3:N:845:ASN:ND2	3:N:845:ASN:C	2.70	0.44
3:N:989:TYR:O	3:N:993:LEU:HG	2.18	0.44
3:N:1019:PRO:O	3:N:1020:LEU:C	2.56	0.44
4:O:70:THR:O	4:O:72:ARG:N	2.43	0.44
5:X:15:LEU:O	5:X:18:GLN:HB3	2.18	0.44
5:Z:3:ARG:HB3	5:Z:4:GLU:H	1.61	0.44
5:Z:37:LEU:CD2	5:Z:42:LEU:HD11	2.48	0.44
1:A:94:LEU:HD11	1:A:119:ASP:OD1	2.17	0.44
1:B:74:ASP:O	1:B:78:ILE:HG12	2.18	0.44
1:B:83:LYS:CD	1:B:167:VAL:HG12	2.47	0.44
1:B:89:PHE:CD1	1:B:120:VAL:HG12	2.53	0.44
2:C:154:ARG:CZ	2:C:178:PRO:HG3	2.47	0.44
2:C:281:LEU:O	2:C:282:GLY:C	2.56	0.44
2:C:520:GLU:OE2	2:C:521:PRO:HD2	2.18	0.44
2:C:694:LEU:HD22	2:C:699:PHE:CD1	2.53	0.44
2:C:739:GLU:HG2	2:C:740:GLU:N	2.33	0.44
2:C:1041:GLU:OE1	3:D:1462:LEU:HB3	2.17	0.44
3:D:87:ARG:O	3:D:524:LEU:HD11	2.18	0.44
3:D:612:GLY:O	3:D:616:GLN:HB2	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:676:MET:CB	3:D:677:LEU:HD22	2.47	0.44
3:D:699:VAL:HG21	3:D:760:ARG:HB3	1.99	0.44
3:D:970:LYS:O	3:D:973:GLN:HB2	2.17	0.44
3:D:1068:LEU:O	3:D:1072:ILE:HG12	2.18	0.44
3:D:1105:ILE:N	3:D:1105:ILE:CD1	2.80	0.44
3:D:1487:VAL:HG21	4:E:79:LEU:HG	2.00	0.44
1:F:85:LEU:CD1	1:F:124:ASN:HB3	2.48	0.44
2:H:572:ILE:HG23	2:H:703:ILE:HD11	2.00	0.44
2:H:631:SER:HA	2:H:637:LEU:HD11	1.99	0.44
2:H:683:ASN:OD1	2:H:683:ASN:N	2.50	0.44
2:H:850:ALA:HA	3:I:632:VAL:HG11	2.00	0.44
2:H:871:LEU:HD22	2:H:871:LEU:N	2.33	0.44
2:H:889:HIS:CD2	2:H:970:GLY:HA3	2.53	0.44
2:H:903:SER:OG	2:H:908:GLY:HA3	2.18	0.44
2:H:939:ARG:HD3	2:H:982:PRO:CD	2.47	0.44
2:H:976:ASP:OD2	2:H:979:THR:N	2.51	0.44
2:H:1050:GLN:NE2	3:I:1471:LEU:N	2.65	0.44
2:H:1095:LEU:HD12	3:I:603:LEU:CD1	2.39	0.44
3:I:82:LYS:CG	3:I:83:SER:H	2.27	0.44
3:I:666:ILE:HG22	3:I:676:MET:CE	2.48	0.44
3:I:1000:THR:HA	3:I:1003:VAL:HG12	1.99	0.44
3:I:1063:GLU:CD	3:I:1064:GLY:H	2.20	0.44
3:I:1487:VAL:HG12	3:I:1488:ASP:N	2.33	0.44
4:J:61:VAL:HG23	4:J:62:THR:N	2.33	0.44
1:L:58:ILE:HB	1:L:61:VAL:CG2	2.48	0.44
1:L:110:LYS:NZ	1:L:112:ARG:NH1	2.66	0.44
2:M:171:TRP:HH2	2:M:417:GLY:HA2	1.82	0.44
2:M:179:ASN:HD22	2:M:179:ASN:HA	1.56	0.44
2:M:264:PRO:HB2	2:M:289:THR:HB	2.00	0.44
2:M:286:SER:OG	2:M:299:LYS:HE3	2.18	0.44
2:M:557:ARG:HH11	2:M:557:ARG:CG	2.31	0.44
2:M:611:ILE:HG13	2:M:625:LEU:CD1	2.47	0.44
2:M:753:ASP:O	2:M:791:ARG:HB3	2.18	0.44
2:M:887:GLU:CD	2:M:992:MET:HA	2.38	0.44
3:N:1101:VAL:HG11	3:N:1424:VAL:O	2.18	0.44
3:N:1256:LEU:HD22	3:N:1256:LEU:O	2.18	0.44
3:N:1437:ALA:HA	3:N:1441:GLN:OE1	2.18	0.44
5:Z:89:VAL:N	5:Z:102:VAL:O	2.50	0.44
1:A:208:LEU:HD23	1:A:208:LEU:C	2.39	0.43
1:B:186:LEU:CB	1:B:192:LEU:HD11	2.48	0.43
2:C:136:ILE:HG22	2:C:336:VAL:HG22	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:184:MET:HB2	2:C:193:LEU:HG	1.99	0.43
2:C:460:ARG:CB	2:C:460:ARG:HH11	2.31	0.43
2:C:943:VAL:HG13	2:C:944:LEU:H	1.80	0.43
3:D:31:THR:HG22	3:D:44:LEU:HD13	2.00	0.43
3:D:122:GLU:O	3:D:124:GLU:N	2.50	0.43
3:D:165:LYS:NZ	3:D:199:LEU:HD12	2.33	0.43
3:D:673:ALA:O	3:D:676:MET:HB2	2.18	0.43
3:D:907:GLU:OE2	3:D:908:LYS:HB3	2.18	0.43
3:D:1109:GLU:C	3:D:1109:GLU:CD	2.76	0.43
3:D:1205:TYR:CE1	3:D:1366:LYS:HD3	2.53	0.43
1:F:156:HIS:H	1:F:156:HIS:HD2	1.66	0.43
1:G:99:LEU:CD1	1:G:142:VAL:HG23	2.22	0.43
1:G:177:VAL:CG1	1:G:199:ILE:HG23	2.48	0.43
2:H:69:LEU:HB2	2:H:97:ARG:O	2.18	0.43
2:H:575:GLN:CD	2:H:670:GLN:HG2	2.39	0.43
2:H:877:PRO:HB3	3:I:1023:MET:CE	2.38	0.43
3:I:18:ILE:HG21	3:I:516:ALA:O	2.18	0.43
3:I:165:LYS:HG2	3:I:166:GLN:H	1.81	0.43
3:I:203:ALA:HA	3:I:395:VAL:HA	1.99	0.43
3:I:411:THR:HG23	3:I:436:GLU:HA	1.99	0.43
3:I:521:PRO:HA	3:I:522:PRO:HD3	1.88	0.43
3:I:562:ALA:N	3:I:563:PRO:CD	2.80	0.43
3:I:642:CYS:SG	3:I:716:PHE:CB	2.98	0.43
3:I:1364:HIS:ND1	3:I:1365:ASP:N	2.66	0.43
1:K:176:ARG:NH1	2:M:865:THR:HB	2.33	0.43
1:L:26:GLU:HG2	1:L:27:PRO:N	2.32	0.43
1:L:209:GLU:O	1:L:210:ALA:C	2.56	0.43
2:M:88:LEU:HD22	2:M:814:GLU:HG2	2.00	0.43
2:M:109:LYS:O	2:M:368:THR:HG21	2.16	0.43
2:M:610:ARG:HA	2:M:625:LEU:HG	1.99	0.43
2:M:911:GLU:O	2:M:915:LYS:HG2	2.18	0.43
3:N:171:LEU:HB3	3:N:391:ALA:O	2.18	0.43
3:N:360:ARG:HB2	3:N:360:ARG:CZ	2.47	0.43
3:N:452:ILE:HD13	3:N:452:ILE:C	2.38	0.43
3:N:787:LEU:HD21	3:N:942:SER:HB3	1.99	0.43
3:N:1058:ARG:HH11	3:N:1058:ARG:CG	2.24	0.43
3:N:1434:TRP:CH2	3:N:1457:ASP:HB2	2.53	0.43
3:N:1492:LEU:O	3:N:1492:LEU:HD13	2.17	0.43
5:X:102:VAL:CG2	5:X:117:MET:HB2	2.48	0.43
5:Y:74:ILE:HG23	5:Y:74:ILE:O	2.18	0.43
5:Y:109:GLU:O	5:Y:110:ALA:C	2.56	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Z:18:GLN:O	5:Z:22:GLU:HG2	2.18	0.43
5:Z:93:ASP:O	5:Z:97:GLY:HA2	2.18	0.43
1:A:89:PHE:HB3	1:A:94:LEU:HD12	2.00	0.43
1:A:165:ILE:HD12	1:A:165:ILE:O	2.18	0.43
1:A:206:THR:OG1	1:A:207:PRO:HD2	2.17	0.43
2:C:54:ILE:HD13	2:C:355:VAL:HG13	1.99	0.43
2:C:714:ASP:OD1	2:C:719:PRO:HG3	2.18	0.43
2:C:911:GLU:HG3	3:D:951:ILE:CD1	2.47	0.43
2:C:939:ARG:HA	2:C:939:ARG:NE	2.34	0.43
2:C:1103:ASP:O	3:D:7:LYS:HG2	2.17	0.43
3:D:560:GLN:O	2:H:226:VAL:HG11	2.18	0.43
3:D:1146:GLY:HA3	3:D:1207:TYR:HB2	1.99	0.43
3:D:1262:LEU:HD23	3:D:1352:ILE:HD13	1.99	0.43
3:D:1473:PRO:O	3:D:1478:SER:HA	2.18	0.43
4:E:47:LYS:HG2	4:E:55:PHE:CE2	2.53	0.43
2:H:64:LEU:CB	2:H:359:MET:HG3	2.25	0.43
2:H:119:PRO:O	2:H:120:LEU:HD13	2.17	0.43
2:H:162:ILE:HB	2:H:172:ILE:HD11	2.00	0.43
2:H:299:LYS:HG3	2:H:299:LYS:O	2.17	0.43
2:H:808:ARG:O	2:H:810:ASP:N	2.51	0.43
2:H:1014:SER:HB3	2:H:1019:GLN:N	2.22	0.43
2:H:1056:LYS:HZ1	3:I:625:TYR:HB2	1.82	0.43
2:H:1063:ARG:HH11	2:H:1064:ASN:CG	2.22	0.43
3:I:32:ILE:HD13	3:I:39:PRO:HA	1.99	0.43
3:I:161:LEU:HD21	3:I:397:LYS:HZ3	1.83	0.43
3:I:191:LEU:HD13	3:I:393:ILE:HG12	1.98	0.43
3:I:485:SER:O	3:I:489:ARG:HB3	2.16	0.43
3:I:629:SER:HB3	3:I:726:ILE:HD11	2.00	0.43
3:I:664:LYS:HD3	3:I:664:LYS:N	2.34	0.43
3:I:774:SER:O	3:I:776:GLU:N	2.50	0.43
3:I:1415:VAL:HG23	3:I:1415:VAL:O	2.18	0.43
4:J:30:LEU:HB3	4:J:35:PHE:CE1	2.53	0.43
1:K:51:THR:HG21	1:K:87:VAL:O	2.18	0.43
1:K:208:LEU:HD23	1:K:212:ASN:HD22	1.82	0.43
2:M:238:LEU:HA	2:M:241:LEU:HG	2.01	0.43
3:N:109:PRO:CD	3:N:1445:HIS:NE2	2.81	0.43
3:N:695:ILE:HG12	3:N:696:HIS:N	2.33	0.43
3:N:729:HIS:HD1	3:N:730:PRO:HD2	1.79	0.43
3:N:760:ARG:NH1	4:O:61:VAL:HG23	2.33	0.43
3:N:826:PRO:O	3:N:836:VAL:HG11	2.18	0.43
3:N:949:ILE:HD11	3:N:1023:MET:HE1	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1132:LEU:HD12	3:N:1132:LEU:N	2.32	0.43
3:N:1176:LYS:O	3:N:1179:GLU:HB2	2.18	0.43
3:N:1445:HIS:O	3:N:1449:GLU:HG3	2.18	0.43
4:O:74:VAL:HG12	4:O:75:PHE:N	2.33	0.43
5:X:51:ALA:O	5:X:54:ALA:HB3	2.17	0.43
1:B:62:LEU:N	1:B:62:LEU:CD1	2.81	0.43
1:B:143:ARG:HD3	1:B:160:ASP:OD2	2.19	0.43
1:B:218:LEU:CD1	1:B:222:LEU:HD11	2.49	0.43
2:C:72:ARG:C	2:C:72:ARG:HD2	2.39	0.43
2:C:137:VAL:HG23	2:C:409:ARG:O	2.18	0.43
2:C:165:LEU:HA	2:C:166:PRO:O	2.18	0.43
2:C:226:VAL:HG13	2:C:227:PHE:N	2.33	0.43
2:C:271:GLU:O	2:C:272:ALA:C	2.56	0.43
2:C:332:ARG:HG3	2:C:465:GLY:HA3	1.99	0.43
2:C:888:THR:HG23	2:C:990:GLY:HA3	1.99	0.43
2:C:1001:VAL:O	2:C:1001:VAL:HG12	2.17	0.43
3:D:699:VAL:HG22	3:D:756:GLN:OE1	2.19	0.43
3:D:711:LEU:C	3:D:713:ILE:H	2.20	0.43
3:D:880:ILE:O	3:D:883:ALA:HB3	2.18	0.43
3:D:982:PHE:CD1	5:X:117:MET:HE1	2.53	0.43
3:D:994:GLN:OE1	3:D:994:GLN:HA	2.18	0.43
3:D:1171:VAL:HA	3:D:1174:LEU:HD12	2.00	0.43
1:F:19:GLU:HG3	1:F:201:THR:O	2.17	0.43
1:G:48:ILE:HG12	1:G:174:VAL:HG21	1.98	0.43
2:H:109:LYS:HE2	2:H:109:LYS:HB3	1.71	0.43
2:H:242:LEU:CD1	2:H:254:VAL:HG21	2.49	0.43
2:H:253:ALA:O	2:H:257:VAL:HG23	2.17	0.43
2:H:265:ARG:HB3	2:H:267:TYR:CZ	2.54	0.43
2:H:310:LEU:O	2:H:313:LEU:HD12	2.18	0.43
2:H:384:GLU:CG	2:H:388:ARG:HD2	2.48	0.43
2:H:575:GLN:C	2:H:667:ALA:HB1	2.39	0.43
2:H:1044:GLY:HA3	4:J:17:TYR:HE1	1.82	0.43
3:I:45:PHE:HE1	3:I:525:ARG:HH12	1.66	0.43
3:I:148:GLU:O	3:I:150:ARG:N	2.52	0.43
3:I:525:ARG:HB2	3:I:538:SER:HB3	2.00	0.43
3:I:548:ILE:H	3:I:548:ILE:CD1	2.31	0.43
3:I:592:THR:HG22	3:I:593:ASN:N	2.33	0.43
3:I:649:ALA:HA	3:I:652:LEU:HD21	2.00	0.43
3:I:650:LEU:HD13	3:I:691:LEU:HD22	2.00	0.43
3:I:708:LEU:HD13	3:I:1231:GLU:HA	2.00	0.43
3:I:710:ARG:C	3:I:712:GLY:N	2.72	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:850:LEU:O	3:I:853:VAL:N	2.51	0.43
3:I:900:ILE:HD13	3:I:900:ILE:O	2.18	0.43
3:I:952:ASP:HA	3:I:1062:ARG:NH1	2.33	0.43
3:I:1105:ILE:HD11	3:I:1374:GLN:NE2	2.33	0.43
3:I:1286:THR:O	3:I:1287:GLU:CB	2.65	0.43
3:I:1426:LYS:HD3	3:I:1429:LEU:HD23	1.99	0.43
1:K:162:ILE:HG12	1:K:163:ASN:N	2.33	0.43
2:M:87:ASP:HA	2:M:131:GLY:HA3	1.99	0.43
2:M:502:PRO:HB2	2:M:509:ALA:HB3	1.99	0.43
2:M:905:ILE:HD12	2:M:905:ILE:N	2.34	0.43
2:M:952:LEU:CD1	2:M:969:GLN:HE22	2.30	0.43
2:M:1016:ILE:HD13	2:M:1016:ILE:N	2.28	0.43
3:N:387:LEU:O	3:N:387:LEU:HD22	2.18	0.43
3:N:919:PHE:CE1	3:N:924:MET:HA	2.54	0.43
3:N:1217:ILE:HD13	4:O:15:SER:HB2	2.00	0.43
3:N:1481:VAL:C	3:N:1483:PHE:N	2.70	0.43
4:O:83:ASP:C	4:O:85:LEU:H	2.20	0.43
5:X:8:THR:HA	5:X:74:ILE:HD12	1.98	0.43
5:Y:11:GLY:HA3	5:Y:109:GLU:OE1	2.19	0.43
5:Y:63:ASP:O	5:Y:67:ASP:HB2	2.17	0.43
5:Z:7:LEU:O	5:Z:74:ILE:HD12	2.17	0.43
1:A:59:GLU:HG2	1:A:139:ASN:HB3	2.00	0.43
1:A:65:PHE:CE2	2:C:830:LYS:HG3	2.52	0.43
1:A:186:LEU:HG	1:A:187:GLY:H	1.83	0.43
2:C:189:ARG:HG2	2:C:243:ARG:HH12	1.84	0.43
2:C:274:ARG:HH12	2:C:284:ARG:HA	1.83	0.43
2:C:461:VAL:HG12	2:C:462:ASP:N	2.34	0.43
2:C:575:GLN:HB2	2:C:670:GLN:HA	2.00	0.43
2:C:727:PRO:HD2	2:C:787:ASP:HB2	2.00	0.43
2:C:918:LEU:HD21	2:C:968:LEU:O	2.18	0.43
2:C:1004:LYS:O	2:C:1005:MET:HB2	2.18	0.43
2:C:1084:SER:HB3	3:D:617:ASN:HD21	1.83	0.43
3:D:137:PRO:HB2	3:D:138:LYS:HZ3	1.81	0.43
3:D:549:ASN:HD22	3:D:549:ASN:HA	1.58	0.43
3:D:554:LEU:HD13	3:D:570:GLU:HG3	2.00	0.43
3:D:618:LEU:C	3:D:620:GLY:N	2.71	0.43
3:D:814:ALA:O	3:D:818:ARG:N	2.52	0.43
3:D:900:ILE:O	3:D:900:ILE:HD13	2.18	0.43
3:D:1310:ARG:HB3	3:D:1310:ARG:CZ	2.47	0.43
3:D:1490:LYS:HZ1	4:E:39:VAL:HG12	1.80	0.43
4:E:23:VAL:HG21	4:E:65:MET:CE	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:479:VAL:CG2	2:H:506:ASN:HA	2.48	0.43
2:H:712:ALA:HB3	2:H:821:GLU:HG3	2.00	0.43
2:H:749:VAL:CG1	2:H:753:ASP:HB2	2.40	0.43
2:H:1002:GLU:HG3	2:H:1003:ASP:H	1.83	0.43
3:I:87:ARG:HD3	3:I:523:ASP:HB2	2.00	0.43
3:I:137:PRO:HG2	3:I:453:ASP:N	2.30	0.43
3:I:139:GLY:H	3:I:147:VAL:HG21	1.82	0.43
3:I:482:LYS:HE3	3:I:1389:LEU:HD23	2.00	0.43
3:I:969:ARG:O	3:I:973:GLN:HG3	2.18	0.43
3:I:995:LEU:O	3:I:999:THR:HB	2.19	0.43
3:I:1093:TYR:HA	3:I:1096:ARG:CD	2.48	0.43
3:I:1148:VAL:CG1	3:I:1163:GLY:HA2	2.43	0.43
3:I:1207:TYR:N	3:I:1366:LYS:HZ1	2.16	0.43
1:L:17:GLY:O	1:L:18:ARG:HG2	2.19	0.43
2:M:87:ASP:HA	2:M:131:GLY:CA	2.48	0.43
2:M:122:THR:CG2	2:M:123:GLU:N	2.76	0.43
2:M:300:ASP:C	2:M:302:VAL:N	2.71	0.43
2:M:704:HIS:ND1	2:M:831:ARG:CZ	2.82	0.43
2:M:726:ILE:HG12	2:M:734:LEU:CD1	2.39	0.43
2:M:834:GLN:N	2:M:837:ASP:OD1	2.50	0.43
3:N:409:VAL:HG23	3:N:421:LEU:HA	2.00	0.43
3:N:639:LEU:CD2	3:N:766:ALA:HB2	2.49	0.43
3:N:646:LYS:HD2	3:N:647:ARG:HH12	1.80	0.43
3:N:1304:LYS:HD3	3:N:1304:LYS:N	2.32	0.43
4:O:48:MET:CG	4:O:49:GLN:H	2.29	0.43
5:X:99:ARG:HD3	5:X:152:VAL:HG21	2.00	0.43
5:Y:92:GLU:HA	5:Y:98:GLU:O	2.19	0.43
5:Y:95:LEU:H	5:Y:95:LEU:CD1	2.27	0.43
5:Z:26:LEU:HD13	5:Z:58:ASN:CB	2.48	0.43
1:A:57:TYR:CE1	1:A:163:ASN:HB2	2.48	0.43
1:B:35:THR:HG22	1:B:35:THR:O	2.19	0.43
2:C:157:ARG:HG2	2:C:157:ARG:HH11	1.84	0.43
2:C:165:LEU:CG	2:C:166:PRO:HA	2.49	0.43
2:C:355:VAL:HG23	2:C:372:LEU:CD2	2.48	0.43
2:C:508:ILE:HD13	2:C:529:VAL:HG21	2.01	0.43
2:C:679:PHE:O	2:C:681:GLY:N	2.46	0.43
2:C:689:VAL:CG1	2:C:690:ILE:N	2.77	0.43
3:D:18:ILE:HG21	3:D:516:ALA:O	2.18	0.43
3:D:137:PRO:HG3	3:D:452:ILE:HB	1.99	0.43
3:D:455:ARG:HH11	3:D:455:ARG:HG3	1.83	0.43
3:D:459:GLU:HA	3:D:462:GLN:HB3	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:562:ALA:N	3:D:563:PRO:CD	2.81	0.43
3:D:752:SER:HB3	3:D:755:ALA:HB3	1.99	0.43
3:D:774:SER:O	3:D:776:GLU:N	2.51	0.43
3:D:1106:VAL:CG2	3:D:1220:ALA:HA	2.41	0.43
3:D:1264:GLU:HA	3:D:1423:GLY:HA3	2.00	0.43
1:F:8:ALA:HB1	1:G:224:TYR:CE1	2.54	0.43
1:F:52:ALA:CB	1:F:170:VAL:H	2.32	0.43
1:G:80:LEU:HG	3:I:844:ALA:CB	2.48	0.43
2:H:146:VAL:HA	2:H:161:SER:O	2.18	0.43
2:H:705:ILE:N	2:H:705:ILE:CD1	2.74	0.43
3:I:6:ARG:O	3:I:1459:LEU:HD13	2.17	0.43
3:I:695:ILE:CG2	3:I:696:HIS:N	2.80	0.43
3:I:783:ARG:HG2	3:I:784:ASP:N	2.28	0.43
3:I:804:LEU:CD1	3:I:832:ARG:H	2.31	0.43
3:I:1380:GLU:HG2	3:I:1381:VAL:N	2.33	0.43
3:I:1491:THR:O	3:I:1494:ALA:HB3	2.18	0.43
1:L:175:ARG:HH21	3:N:847:ASP:CB	2.32	0.43
2:M:449:ILE:HG21	3:N:1081:GLY:O	2.18	0.43
3:N:165:LYS:NZ	3:N:165:LYS:CB	2.78	0.43
3:N:474:GLU:HG2	3:N:496:LEU:HD11	2.00	0.43
3:N:811:GLU:HG2	3:N:815:ALA:HB2	1.99	0.43
3:N:1105:ILE:N	3:N:1105:ILE:HD12	2.33	0.43
3:N:1256:LEU:HD22	3:N:1259:VAL:CB	2.47	0.43
3:N:1311:LEU:HD23	3:N:1311:LEU:H	1.84	0.43
5:Y:104:VAL:HG22	5:Y:119:ILE:CG1	2.48	0.43
1:B:117:VAL:CG1	1:B:118:ALA:H	2.17	0.43
1:B:132:LEU:CD1	1:B:138:LEU:HB3	2.48	0.43
2:C:173:ASP:HB2	2:C:185:LYS:HB3	1.99	0.43
2:C:910:LYS:HD3	2:C:910:LYS:HA	1.61	0.43
2:C:1016:ILE:HG13	2:C:1017:THR:N	2.26	0.43
3:D:1171:VAL:HA	3:D:1174:LEU:HG	2.00	0.43
3:D:1491:THR:O	3:D:1494:ALA:HB3	2.18	0.43
1:F:224:TYR:CZ	1:G:9:PRO:HD2	2.52	0.43
1:G:61:VAL:HG12	1:G:62:LEU:N	2.33	0.43
2:H:151:ASP:OD1	2:H:152:PRO:HD2	2.19	0.43
2:H:232:GLU:HG3	2:H:235:LEU:CD1	2.48	0.43
2:H:824:ARG:NH1	2:H:824:ARG:HG2	2.32	0.43
2:H:946:ARG:HG2	2:H:946:ARG:HH11	1.84	0.43
2:H:1032:PHE:O	2:H:1036:GLU:HB2	2.18	0.43
3:I:485:SER:O	3:I:489:ARG:CB	2.67	0.43
3:I:695:ILE:CD1	3:I:698:LYS:HB2	2.40	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:810:GLU:O	3:I:813:LEU:HG	2.18	0.43
3:I:818:ARG:HH11	3:I:818:ARG:HG3	1.83	0.43
3:I:845:ASN:N	3:I:845:ASN:ND2	2.67	0.43
3:I:1188:VAL:HG22	3:I:1189:ARG:N	2.33	0.43
3:I:1305:LEU:HD22	3:I:1311:LEU:HD21	2.01	0.43
3:I:1331:ASP:HB3	3:I:1334:GLN:HB2	2.00	0.43
3:I:1361:VAL:CG1	3:I:1363:LEU:HD22	2.46	0.43
1:K:221:HIS:HA	1:K:224:TYR:HD2	1.83	0.43
1:L:17:GLY:C	1:L:18:ARG:HG2	2.39	0.43
2:M:756:VAL:CG1	2:M:790:LEU:HD22	2.49	0.43
2:M:1066:ALA:HA	2:M:1077:PRO:CG	2.48	0.43
3:N:44:LEU:HD21	3:N:525:ARG:NH2	2.33	0.43
3:N:148:GLU:O	3:N:150:ARG:N	2.51	0.43
3:N:495:ARG:O	3:N:499:VAL:HG23	2.18	0.43
3:N:692:GLU:OE2	3:N:720:LEU:HD11	2.17	0.43
3:N:792:ILE:HD12	3:N:792:ILE:C	2.38	0.43
3:N:1253:THR:HA	3:N:1258:ARG:HD3	2.01	0.43
5:Z:56:TRP:HA	5:Z:56:TRP:CE3	2.54	0.43
1:A:18:ARG:HG2	1:A:19:GLU:N	2.33	0.43
1:B:62:LEU:HD22	1:B:63:HIS:CB	2.48	0.43
2:C:404:LEU:O	2:C:407:LYS:HB3	2.18	0.43
2:C:636:ALA:HB3	2:C:703:ILE:HD13	1.99	0.43
2:C:740:GLU:N	2:C:740:GLU:CD	2.72	0.43
2:C:940:GLU:O	2:C:943:VAL:HG12	2.18	0.43
2:C:942:GLU:O	2:C:945:ARG:HB3	2.18	0.43
3:D:16:GLU:O	3:D:19:ARG:HG2	2.19	0.43
3:D:97:THR:HG21	3:D:571:LYS:CD	2.41	0.43
3:D:486:ARG:HA	3:D:489:ARG:CD	2.48	0.43
3:D:574:LEU:O	3:D:578:VAL:HG23	2.18	0.43
3:D:585:GLY:C	3:D:587:ARG:N	2.72	0.43
3:D:679:ARG:CZ	3:D:679:ARG:HB3	2.49	0.43
3:D:806:PHE:HE1	3:D:813:LEU:HB3	1.83	0.43
3:D:845:ASN:O	3:D:848:GLU:HB2	2.19	0.43
3:D:895:VAL:O	3:D:899:LEU:HG	2.19	0.43
3:D:1066:THR:HG22	3:D:1069:GLU:CG	2.48	0.43
3:D:1395:LEU:HA	3:D:1398:TRP:HD1	1.84	0.43
2:H:138:SER:HB2	2:H:410:ILE:CD1	2.48	0.43
2:H:148:PHE:CZ	2:H:309:TYR:HD1	2.36	0.43
2:H:328:LEU:C	2:H:330:ASN:N	2.71	0.43
2:H:490:GLU:HG2	2:H:493:ARG:HH11	1.83	0.43
2:H:581:THR:OG1	2:H:583:LEU:CD2	2.66	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:603:VAL:HG23	2:H:647:GLN:O	2.18	0.43
2:H:850:ALA:HA	3:I:632:VAL:CG1	2.49	0.43
2:H:1090:LYS:HA	2:H:1093:GLN:HB2	2.01	0.43
3:I:17:LYS:O	3:I:20:SER:HB3	2.19	0.43
3:I:138:LYS:HE2	3:I:138:LYS:O	2.18	0.43
3:I:160:GLU:HG3	3:I:165:LYS:HG3	2.00	0.43
3:I:1168:MET:HE2	3:I:1168:MET:O	2.18	0.43
3:I:1427:SER:OG	3:I:1428:ALA:N	2.52	0.43
1:L:110:LYS:HA	1:L:127:LEU:O	2.19	0.43
1:L:179:PHE:HB3	1:L:197:LEU:CD2	2.49	0.43
2:M:136:ILE:O	2:M:336:VAL:HG22	2.18	0.43
2:M:207:LEU:HD23	2:M:208:ALA:N	2.33	0.43
2:M:572:ILE:H	2:M:572:ILE:HD13	1.84	0.43
2:M:679:PHE:C	2:M:681:GLY:N	2.72	0.43
3:N:18:ILE:HG23	3:N:518:PRO:CG	2.40	0.43
3:N:18:ILE:HG21	3:N:516:ALA:CB	2.48	0.43
3:N:84:ILE:HG12	3:N:85:VAL:N	2.33	0.43
3:N:102:ILE:HD11	3:N:106:LYS:HG2	2.00	0.43
3:N:440:VAL:HB	3:N:441:ARG:HH21	1.84	0.43
3:N:672:ALA:O	3:N:675:ARG:HG3	2.18	0.43
3:N:760:ARG:NH1	4:O:59:ASN:HD21	2.16	0.43
3:N:768:ASN:O	3:N:769:LEU:HD23	2.18	0.43
3:N:953:ASP:OD1	3:N:1019:PRO:HG2	2.18	0.43
5:X:29:ILE:CD1	5:X:58:ASN:HD22	2.32	0.43
5:Y:46:ALA:HB1	5:Y:50:GLU:OE1	2.19	0.43
1:A:140:MET:SD	1:A:140:MET:C	2.97	0.43
1:B:51:THR:HB	1:B:87:VAL:HG22	2.01	0.43
1:B:147:GLY:HA3	1:B:171:PHE:CZ	2.53	0.43
2:C:129:ILE:HG22	2:C:130:ASN:N	2.34	0.43
2:C:136:ILE:CG2	2:C:336:VAL:HG22	2.49	0.43
2:C:237:ARG:HH11	2:C:237:ARG:HG3	1.83	0.43
2:C:640:ARG:HG2	2:C:640:ARG:HH11	1.83	0.43
2:C:886:LEU:HD12	2:C:886:LEU:HA	1.80	0.43
3:D:45:PHE:CD1	3:D:522:PRO:HB3	2.54	0.43
3:D:467:GLU:O	3:D:468:LEU:C	2.56	0.43
3:D:625:TYR:OH	3:D:655:PRO:HG2	2.18	0.43
3:D:695:ILE:HD13	3:D:717:GLN:HE22	1.84	0.43
3:D:834:THR:OG1	3:D:838:ARG:HD3	2.19	0.43
3:D:970:LYS:HG3	3:D:995:LEU:HD22	2.00	0.43
3:D:971:LEU:CD1	3:D:992:ILE:HG23	2.49	0.43
3:D:971:LEU:CD1	3:D:992:ILE:HG12	2.47	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1104:GLU:HG2	3:D:1461:GLY:HA3	2.01	0.43
3:D:1118:ILE:HD12	3:D:1118:ILE:N	2.33	0.43
3:D:1155:VAL:C	3:D:1157:GLY:N	2.72	0.43
3:D:1211:MET:CG	3:D:1212:ALA:H	2.30	0.43
3:D:1263:PHE:HE2	3:D:1371:VAL:HG11	1.82	0.43
3:D:1373:ARG:HB3	3:D:1374:GLN:NE2	2.34	0.43
3:D:1481:VAL:C	3:D:1483:PHE:N	2.72	0.43
4:E:31:LEU:HB3	4:E:35:PHE:HE1	1.84	0.43
1:G:52:ALA:HB2	1:G:171:PHE:N	2.33	0.43
1:G:59:GLU:HB2	1:G:137:ARG:NH1	2.32	0.43
1:G:75:VAL:O	1:G:79:ILE:HG12	2.19	0.43
1:G:82:LEU:HD11	1:G:140:MET:HE3	2.01	0.43
1:G:156:HIS:CG	1:G:157:GLY:N	2.86	0.43
2:H:200:LEU:HD13	2:H:300:ASP:OD1	2.18	0.43
2:H:218:VAL:C	2:H:220:GLY:H	2.21	0.43
2:H:218:VAL:C	2:H:220:GLY:N	2.72	0.43
2:H:262:ALA:O	2:H:263:ASP:C	2.57	0.43
2:H:271:GLU:O	2:H:272:ALA:C	2.57	0.43
2:H:310:LEU:HD12	2:H:314:THR:HG23	2.01	0.43
2:H:331:ARG:NH1	2:H:427:VAL:CG1	2.77	0.43
2:H:522:VAL:HG12	2:H:523:ILE:N	2.33	0.43
2:H:676:ILE:HD11	2:H:873:PRO:CA	2.49	0.43
2:H:724:ARG:O	2:H:726:ILE:HD13	2.19	0.43
2:H:753:ASP:O	2:H:792:VAL:HG23	2.18	0.43
2:H:1039:ALA:O	2:H:1042:ALA:HB3	2.18	0.43
2:H:1081:VAL:HB	2:H:1086:ARG:NH2	2.29	0.43
3:I:128:TYR:HD2	3:I:128:TYR:HA	1.74	0.43
3:I:711:LEU:HD22	3:I:714:GLN:NE2	2.34	0.43
3:I:1149:LEU:CD2	3:I:1164:ARG:O	2.67	0.43
3:I:1472:ILE:HD13	3:I:1472:ILE:O	2.18	0.43
1:K:46:SER:HB3	2:M:856:GLU:HG2	2.00	0.43
2:M:165:LEU:HD12	2:M:166:PRO:C	2.38	0.43
2:M:524:VAL:HG11	2:M:528:GLU:HB2	2.01	0.43
2:M:575:GLN:N	2:M:667:ALA:HB1	2.33	0.43
2:M:944:LEU:HD23	2:M:944:LEU:HA	1.90	0.43
2:M:1018:GLN:NE2	2:M:1060:ILE:HD13	2.32	0.43
2:M:1075:ASP:OD1	4:O:28:GLN:CD	2.57	0.43
3:N:115:LEU:C	3:N:115:LEU:HD23	2.39	0.43
3:N:508:ARG:HB3	3:N:510:GLU:CD	2.39	0.43
3:N:525:ARG:O	3:N:525:ARG:HG2	2.19	0.43
3:N:562:ALA:N	3:N:563:PRO:CD	2.81	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:843:PHE:CB	3:N:866:VAL:HG22	2.31	0.43
3:N:1123:PHE:HD1	3:N:1133:ARG:C	2.22	0.43
3:N:1305:LEU:HG	3:N:1305:LEU:O	2.19	0.43
3:N:1366:LYS:O	3:N:1370:ILE:HG13	2.19	0.43
3:N:1435:LEU:HD12	3:N:1435:LEU:HA	1.79	0.43
5:Y:133:ARG:HA	5:Y:154:ILE:CD1	2.49	0.43
5:Z:133:ARG:HE	5:Z:133:ARG:HB3	1.29	0.43
1:A:35:THR:HG23	1:B:42:ARG:HB2	1.99	0.43
1:A:54:THR:HG21	1:A:158:ILE:HG12	1.99	0.43
1:B:184:THR:O	1:B:190:THR:O	2.37	0.43
2:C:52:PHE:HB3	2:C:53:PRO:HD3	2.00	0.43
2:C:196:LEU:O	2:C:199:VAL:HB	2.19	0.43
2:C:437:ARG:HH22	2:C:488:ALA:CA	2.32	0.43
2:C:587:VAL:HG11	2:C:666:LEU:HD22	2.01	0.43
2:C:677:MET:HB3	2:C:987:ILE:HG23	2.00	0.43
2:C:683:ASN:CA	2:C:687:ALA:HB3	2.48	0.43
2:C:684:PHE:CD2	2:C:685:GLU:HG2	2.54	0.43
2:C:1066:ALA:HA	2:C:1077:PRO:HD3	1.99	0.43
2:C:1102:LEU:HD23	2:C:1106:ASP:HA	2.00	0.43
3:D:368:VAL:H	3:D:377:VAL:HB	1.84	0.43
3:D:411:THR:HG23	3:D:436:GLU:HA	2.00	0.43
3:D:815:ALA:O	3:D:818:ARG:N	2.51	0.43
3:D:1197:ARG:CA	3:D:1396:GLU:HG3	2.45	0.43
3:D:1426:LYS:HA	3:D:1426:LYS:HD3	1.75	0.43
1:G:205:VAL:HG23	1:G:209:GLU:HB2	2.00	0.43
2:H:12:VAL:HG22	2:H:13:ILE:N	2.34	0.43
2:H:45:GLN:O	2:H:48:PHE:HB2	2.18	0.43
2:H:165:LEU:HB3	2:H:265:ARG:CZ	2.48	0.43
2:H:602:GLU:OE1	2:H:647:GLN:N	2.52	0.43
2:H:676:ILE:HD11	2:H:873:PRO:HA	2.01	0.43
2:H:816:LYS:O	2:H:819:VAL:HB	2.18	0.43
2:H:913:GLU:H	2:H:913:GLU:HG3	1.63	0.43
2:H:922:PHE:HB2	2:H:967:PHE:CD2	2.54	0.43
3:I:12:LEU:H	3:I:12:LEU:CD1	2.20	0.43
3:I:51:GLY:O	3:I:86:ARG:HG3	2.19	0.43
3:I:84:ILE:HA	3:I:87:ARG:HG2	2.00	0.43
3:I:153:LEU:N	3:I:153:LEU:CD1	2.82	0.43
3:I:499:VAL:HG12	3:I:503:LEU:HD12	2.01	0.43
3:I:674:ARG:HB3	3:I:675:ARG:HH22	1.79	0.43
3:I:771:SER:H	3:I:778:LEU:HD21	1.84	0.43
3:I:868:TYR:CG	3:I:869:MET:N	2.85	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:1289:LYS:NZ	3:I:1306:PRO:HG3	2.34	0.43
3:I:1442:ASN:O	3:I:1446:VAL:HG23	2.19	0.43
4:J:48:MET:CG	4:J:49:GLN:H	2.31	0.43
1:K:89:PHE:CE1	1:K:146:ARG:HB3	2.54	0.43
1:K:224:TYR:HE1	1:L:8:ALA:HB1	1.84	0.43
2:M:351:LEU:HD11	2:M:374:ASN:ND2	2.34	0.43
2:M:882:LEU:O	2:M:883:GLY:C	2.57	0.43
2:M:983:ILE:HD12	2:M:987:ILE:HG12	2.00	0.43
2:M:1102:LEU:HD23	2:M:1106:ASP:HA	2.01	0.43
3:N:95:LEU:HD23	3:N:551:ASN:OD1	2.18	0.43
3:N:598:ARG:O	3:N:598:ARG:HG2	2.19	0.43
3:N:695:ILE:HD11	3:N:717:GLN:CD	2.39	0.43
3:N:704:ARG:NH1	3:N:705:ALA:CB	2.81	0.43
3:N:806:PHE:H	3:N:832:ARG:CB	2.32	0.43
3:N:806:PHE:H	3:N:832:ARG:HB2	1.83	0.43
3:N:1488:ASP:O	3:N:1489:GLN:C	2.57	0.43
5:X:87:SER:HA	5:X:156:GLY:O	2.19	0.43
5:Y:44:GLU:O	5:Y:45:ASN:CB	2.67	0.43
5:Y:112:VAL:O	5:Y:112:VAL:HG12	2.19	0.43
5:Z:56:TRP:HA	5:Z:56:TRP:HE3	1.84	0.43
1:A:176:ARG:HG3	1:A:200:TRP:CE3	2.53	0.43
2:C:173:ASP:O	2:C:184:MET:HA	2.18	0.43
2:C:258:TYR:HE2	2:C:290:LEU:CD1	2.31	0.43
2:C:262:ALA:O	2:C:263:ASP:C	2.57	0.43
2:C:524:VAL:HG12	2:C:525:SER:N	2.33	0.43
2:C:615:TYR:HB2	2:C:619:ARG:HG3	2.00	0.43
2:C:673:LEU:CD2	2:C:867:VAL:HA	2.49	0.43
2:C:937:ASP:H	2:C:940:GLU:CD	2.22	0.43
2:C:1001:VAL:O	2:C:1004:LYS:O	2.36	0.43
3:D:145:VAL:O	3:D:146:PRO:O	2.37	0.43
3:D:165:LYS:HG2	3:D:166:GLN:H	1.83	0.43
3:D:204:LEU:HD11	3:D:441:ARG:HD3	2.01	0.43
3:D:343:LYS:HB3	3:D:344:ASP:H	1.60	0.43
3:D:456:MET:CA	3:D:460:ALA:HB2	2.49	0.43
3:D:465:LEU:HD13	3:D:509:PRO:O	2.18	0.43
3:D:536:ALA:O	3:D:537:THR:O	2.36	0.43
3:D:539:ASP:C	3:D:540:LEU:HD22	2.39	0.43
3:D:705:ALA:CB	3:D:706:PRO:HD3	2.33	0.43
3:D:1026:SER:O	3:D:1028:ALA:N	2.52	0.43
3:D:1132:LEU:H	3:D:1132:LEU:CD1	2.29	0.43
3:D:1211:MET:SD	3:D:1213:ARG:CG	3.06	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1316:GLY:O	3:D:1317:ASP:C	2.57	0.43
3:D:1410:GLU:HB3	3:D:1411:GLY:H	1.63	0.43
1:F:43:ILE:HG22	1:G:32:PHE:CE2	2.46	0.43
1:F:109:VAL:HG12	1:F:129:ILE:HB	2.01	0.43
1:F:122:ILE:O	1:F:122:ILE:HD12	2.19	0.43
1:F:151:VAL:HB	1:F:169:ALA:HB2	1.99	0.43
1:G:41:ARG:NH1	1:G:41:ARG:HG3	2.34	0.43
2:H:30:LEU:HA	2:H:44:ILE:HD13	2.01	0.43
2:H:139:GLN:OE1	2:H:334:ARG:HD3	2.19	0.43
2:H:294:GLU:H	2:H:294:GLU:HG3	1.66	0.43
2:H:575:GLN:CG	2:H:670:GLN:HG2	2.49	0.43
2:H:731:GLU:C	2:H:733:ALA:H	2.23	0.43
3:I:355:VAL:HG22	3:I:359:ALA:HB3	2.00	0.43
3:I:574:LEU:HD13	3:I:574:LEU:C	2.39	0.43
3:I:616:GLN:HG3	3:I:617:ASN:N	2.34	0.43
3:I:631:ILE:HD11	3:I:743:ASP:CB	2.44	0.43
3:I:632:VAL:HG12	3:I:633:VAL:N	2.32	0.43
3:I:919:PHE:HZ	3:I:1211:MET:CG	2.31	0.43
3:I:1197:ARG:HD3	3:I:1198:TYR:N	2.25	0.43
1:K:165:ILE:H	1:K:165:ILE:CD1	2.23	0.43
1:K:176:ARG:HH12	2:M:865:THR:HB	1.84	0.43
1:L:73:GLU:CD	1:L:130:ALA:HA	2.39	0.43
2:M:54:ILE:HG23	2:M:64:LEU:HG	2.01	0.43
2:M:408:ARG:HH21	2:M:455:LEU:HD21	1.84	0.43
2:M:521:PRO:HG3	3:N:1068:LEU:HD11	2.00	0.43
2:M:523:ILE:C	2:M:523:ILE:HD13	2.38	0.43
2:M:673:LEU:HD12	2:M:867:VAL:CA	2.42	0.43
2:M:838:LYS:O	2:M:997:LEU:CD2	2.67	0.43
2:M:1019:GLN:HG3	3:N:621:LYS:HD2	2.00	0.43
3:N:796:ARG:CG	3:N:861:GLN:HB2	2.48	0.43
3:N:1109:GLU:CG	3:N:1201:CYS:HA	2.49	0.43
3:N:1381:VAL:HA	3:N:1398:TRP:CH2	2.54	0.43
5:X:35:GLN:O	5:X:38:GLU:N	2.52	0.43
5:Y:22:GLU:OE2	5:Y:25:ARG:HD2	2.19	0.43
5:Z:83:ILE:HD11	5:Z:151:VAL:HG21	2.00	0.43
1:B:188:GLN:NE2	3:D:688:TRP:HE1	2.17	0.42
2:C:52:PHE:CG	2:C:68:PHE:HB2	2.53	0.42
2:C:140:ILE:O	2:C:141:HIS:CB	2.64	0.42
2:C:272:ALA:HA	2:C:464:LEU:HD13	2.01	0.42
2:C:275:TYR:CZ	2:C:280:LYS:NZ	2.86	0.42
2:C:384:GLU:HA	2:C:388:ARG:NE	2.33	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:611:ILE:HG13	2:C:625:LEU:HD21	2.00	0.42
2:C:676:ILE:CG1	2:C:873:PRO:HG3	2.44	0.42
3:D:563:PRO:HA	2:H:223:ASP:CG	2.39	0.42
3:D:800:LYS:HD3	3:D:803:GLY:CA	2.49	0.42
3:D:1155:VAL:HG21	3:D:1183:ILE:HG21	2.01	0.42
3:D:1213:ARG:HB2	3:D:1214:PRO:CD	2.49	0.42
3:D:1245:GLY:O	3:D:1246:VAL:CG2	2.66	0.42
3:D:1340:GLY:O	3:D:1344:VAL:HG23	2.18	0.42
1:G:15:THR:O	1:G:15:THR:HG23	2.19	0.42
1:G:43:ILE:C	1:G:45:LEU:H	2.23	0.42
1:G:182:GLU:OE1	1:G:182:GLU:N	2.52	0.42
2:H:54:ILE:CG2	2:H:66:LEU:HB3	2.49	0.42
2:H:343:GLN:HE21	2:H:343:GLN:CA	2.30	0.42
2:H:468:ARG:HD3	2:H:485:TYR:O	2.19	0.42
2:H:605:LYS:O	2:H:611:ILE:HA	2.19	0.42
2:H:942:GLU:O	2:H:945:ARG:HB3	2.18	0.42
2:H:976:ASP:CG	2:H:978:ARG:H	2.22	0.42
3:I:198:ARG:HA	3:I:198:ARG:NE	2.34	0.42
3:I:700:VAL:HG22	3:I:718:PRO:HG3	2.00	0.42
3:I:1211:MET:CG	3:I:1212:ALA:N	2.81	0.42
3:I:1462:LEU:O	3:I:1463:LYS:C	2.58	0.42
1:K:83:LYS:HD3	1:K:167:VAL:HG12	2.01	0.42
1:L:88:ARG:O	1:L:120:VAL:HA	2.19	0.42
1:L:99:LEU:HG	1:L:117:VAL:HG21	2.01	0.42
2:M:292:ARG:HD2	2:M:299:LYS:CD	2.49	0.42
2:M:414:GLY:C	2:M:416:GLY:H	2.23	0.42
2:M:542:VAL:O	2:M:543:ASN:C	2.58	0.42
2:M:1021:LEU:CD2	3:N:622:ARG:HH12	2.31	0.42
3:N:102:ILE:HG13	3:N:106:LYS:HB2	1.99	0.42
3:N:165:LYS:HD2	3:N:165:LYS:C	2.38	0.42
3:N:710:ARG:C	3:N:712:GLY:N	2.72	0.42
3:N:843:PHE:O	3:N:866:VAL:HA	2.19	0.42
3:N:1405:GLU:HG3	3:N:1406:ARG:N	2.33	0.42
3:N:1461:GLY:O	3:N:1464:GLU:HG2	2.18	0.42
5:Y:5:VAL:HB	5:Y:72:ALA:CA	2.48	0.42
5:Y:150:ARG:HB3	5:Y:150:ARG:HH11	1.83	0.42
1:A:21:GLY:HA3	1:A:207:PRO:HG2	2.01	0.42
1:B:95:GLN:HE21	1:B:95:GLN:N	2.14	0.42
2:C:250:ARG:NE	2:C:250:ARG:HA	2.34	0.42
2:C:250:ARG:NH1	2:C:250:ARG:HG2	2.34	0.42
2:C:265:ARG:HD3	2:C:267:TYR:CD1	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:328:LEU:HD21	2:C:434:HIS:HA	2.01	0.42
2:C:331:ARG:NH1	2:C:427:VAL:HG13	2.34	0.42
2:C:339:LEU:O	2:C:342:ASP:HB3	2.19	0.42
2:C:411:SER:OG	2:C:413:LEU:HD12	2.19	0.42
3:D:18:ILE:CG2	3:D:518:PRO:HG3	2.46	0.42
3:D:30:GLU:O	3:D:43:GLY:HA3	2.19	0.42
3:D:398:ALA:CB	3:D:447:VAL:HA	2.49	0.42
3:D:815:ALA:HA	3:D:818:ARG:CG	2.49	0.42
3:D:904:VAL:O	3:D:904:VAL:HG23	2.19	0.42
3:D:957:PRO:HG2	3:D:1007:VAL:HG22	2.00	0.42
3:D:974:ILE:HD12	3:D:974:ILE:H	1.82	0.42
3:D:975:GLU:O	3:D:979:GLU:HG3	2.19	0.42
3:D:978:TYR:HB2	3:D:983:LEU:HD12	2.00	0.42
3:D:979:GLU:O	5:X:143:PRO:HD2	2.17	0.42
3:D:1040:GLY:O	3:D:1041:LEU:HB3	2.19	0.42
3:D:1304:LYS:HB3	3:D:1304:LYS:HZ2	1.84	0.42
3:D:1351:GLU:HA	3:D:1351:GLU:OE1	2.19	0.42
3:D:1357:ARG:C	3:D:1359:GLN:H	2.23	0.42
3:D:1401:GLU:CD	3:D:1415:VAL:CG2	2.87	0.42
1:F:41:ARG:HA	1:F:44:LEU:HD12	2.00	0.42
1:F:176:ARG:O	1:F:200:TRP:CE3	2.72	0.42
1:G:58:ILE:HB	1:G:61:VAL:CB	2.49	0.42
1:G:73:GLU:CD	1:G:73:GLU:H	2.22	0.42
1:G:160:ASP:CB	1:G:161:ARG:HH11	2.26	0.42
1:G:206:THR:HG22	1:G:209:GLU:HG3	2.01	0.42
2:H:80:GLN:O	2:H:81:ASP:C	2.58	0.42
2:H:136:ILE:HD13	2:H:392:SER:HA	2.01	0.42
2:H:259:GLY:O	2:H:291:ALA:HB2	2.19	0.42
2:H:668:LEU:HD12	2:H:668:LEU:N	2.23	0.42
2:H:983:ILE:HD12	3:I:944:THR:CA	2.17	0.42
2:H:1046:ALA:CB	3:I:1471:LEU:HD11	2.47	0.42
2:H:1089:VAL:HG21	2:H:1111:ILE:CD1	2.49	0.42
3:I:6:ARG:NH2	3:I:1459:LEU:O	2.52	0.42
3:I:147:VAL:HG22	3:I:149:LYS:N	2.31	0.42
3:I:187:LYS:NZ	3:I:199:LEU:HG	2.34	0.42
3:I:502:PHE:CZ	3:I:1452:ILE:HG23	2.54	0.42
3:I:784:ASP:O	3:I:785:ILE:C	2.57	0.42
3:I:877:PRO:O	3:I:880:ILE:CG2	2.66	0.42
3:I:1451:ALA:O	3:I:1452:ILE:C	2.57	0.42
4:J:49:GLN:O	4:J:51:LEU:N	2.52	0.42
4:J:51:LEU:O	4:J:53:GLY:N	2.42	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:73:GLU:HB2	1:L:77:GLU:HB3	2.01	0.42
2:M:139:GLN:HG2	2:M:339:LEU:HD21	2.00	0.42
2:M:508:ILE:HG22	2:M:509:ALA:N	2.33	0.42
2:M:692:GLU:O	2:M:696:LYS:HG3	2.19	0.42
2:M:863:ASP:O	2:M:863:ASP:CG	2.58	0.42
2:M:872:ASN:ND2	2:M:874:LEU:HD12	2.24	0.42
2:M:1015:LEU:H	2:M:1015:LEU:CD1	2.30	0.42
3:N:142:LEU:N	3:N:142:LEU:HD13	2.34	0.42
3:N:168:THR:HA	3:N:394:LEU:HD22	2.00	0.42
3:N:483:HIS:CB	3:N:484:PRO:HD3	2.43	0.42
3:N:765:SER:OG	3:N:766:ALA:N	2.52	0.42
3:N:1412:LYS:C	3:N:1414:PRO:HD3	2.38	0.42
3:N:1460:ILE:HD12	3:N:1460:ILE:O	2.19	0.42
5:Y:71:ARG:O	5:Y:71:ARG:HD2	2.19	0.42
1:A:154:GLU:N	1:A:154:GLU:CD	2.72	0.42
1:A:227:ASN:OD1	1:A:227:ASN:N	2.52	0.42
1:B:15:THR:HG23	1:B:15:THR:O	2.18	0.42
1:B:106:PRO:HA	1:B:132:LEU:O	2.19	0.42
1:B:127:LEU:HD22	1:B:129:ILE:CD1	2.49	0.42
2:C:398:THR:O	2:C:399:ASN:HB3	2.19	0.42
2:C:460:ARG:HH11	2:C:460:ARG:HB3	1.83	0.42
2:C:574:ALA:HB1	2:C:667:ALA:HB3	2.01	0.42
2:C:586:ARG:HB3	2:C:586:ARG:CZ	2.48	0.42
2:C:1013:TYR:HE2	2:C:1063:ARG:NH2	2.17	0.42
2:C:1019:GLN:O	2:C:1021:LEU:N	2.47	0.42
2:C:1069:ALA:HA	2:C:1072:LYS:HZ3	1.85	0.42
3:D:153:LEU:C	3:D:153:LEU:HD12	2.40	0.42
3:D:521:PRO:HA	3:D:522:PRO:HD3	1.81	0.42
3:D:676:MET:O	3:D:680:GLN:OE1	2.37	0.42
3:D:757:ALA:HB1	3:D:761:ILE:HD12	2.01	0.42
3:D:1136:LYS:HB2	3:D:1139:ASP:OD2	2.19	0.42
4:E:31:LEU:HD12	4:E:32:ARG:H	1.81	0.42
1:F:60:ASP:OD1	1:F:60:ASP:N	2.51	0.42
1:G:26:GLU:OE2	1:G:194:LYS:HG3	2.19	0.42
1:G:209:GLU:O	1:G:212:ASN:N	2.51	0.42
2:H:154:ARG:HD2	2:H:156:GLY:CA	2.47	0.42
2:H:196:LEU:O	2:H:199:VAL:HB	2.20	0.42
2:H:219:GLN:HA	2:H:222:MET:HG3	2.01	0.42
2:H:293:PHE:HA	2:H:298:PHE:CD2	2.54	0.42
2:H:443:THR:HG21	3:I:1078:ARG:HD2	2.00	0.42
2:H:578:VAL:H	2:H:671:ASN:ND2	2.17	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:690:ILE:HD13	2:H:691:SER:C	2.39	0.42
2:H:853:LEU:HD23	2:H:858:MET:CE	2.46	0.42
2:H:918:LEU:CD2	2:H:968:LEU:HA	2.50	0.42
2:H:953:VAL:HG11	2:H:962:GLN:CB	2.50	0.42
2:H:1005:MET:O	2:H:1005:MET:HG3	2.18	0.42
2:H:1061:GLU:CD	3:I:84:ILE:HG21	2.40	0.42
2:H:1097:LEU:HD11	3:I:10:ILE:CD1	2.49	0.42
3:I:90:MET:HE2	3:I:519:VAL:O	2.19	0.42
3:I:90:MET:HG2	3:I:521:PRO:HD3	2.00	0.42
3:I:206:ARG:HG3	3:I:207:PHE:CD1	2.55	0.42
3:I:754:PHE:HZ	4:J:21:VAL:HG13	1.84	0.42
3:I:956:ILE:HD11	3:I:1062:ARG:HB3	2.00	0.42
4:J:31:LEU:HD12	4:J:32:ARG:N	2.34	0.42
1:K:156:HIS:CG	1:K:158:ILE:HD11	2.54	0.42
1:L:62:LEU:HA	1:L:163:ASN:HD21	1.84	0.42
2:M:181:VAL:HG12	2:M:182:VAL:O	2.19	0.42
2:M:193:LEU:N	2:M:193:LEU:HD12	2.34	0.42
2:M:283:ILE:HG13	2:M:284:ARG:N	2.33	0.42
2:M:1040:LEU:HD12	2:M:1040:LEU:HA	1.86	0.42
2:M:1056:LYS:HG2	3:N:624:ASP:HB2	2.01	0.42
2:M:1089:VAL:O	2:M:1093:GLN:HG3	2.19	0.42
3:N:90:MET:SD	3:N:520:LEU:HA	2.59	0.42
3:N:433:GLY:HA3	3:N:449:SER:H	1.84	0.42
3:N:695:ILE:O	3:N:697:GLY:N	2.52	0.42
3:N:1277:ILE:HG12	3:N:1299:PHE:CE1	2.53	0.42
3:N:1472:ILE:HA	3:N:1473:PRO:HD3	1.85	0.42
3:N:1486:VAL:HG11	4:O:25:LYS:HB2	2.01	0.42
4:O:81:PRO:HB2	4:O:84:ARG:HB2	2.00	0.42
5:Y:29:ILE:CG2	5:Y:55:MET:HG2	2.49	0.42
1:B:101:LEU:HD23	1:B:101:LEU:C	2.39	0.42
2:C:195:LEU:HD23	2:C:241:LEU:HD11	2.01	0.42
2:C:239:PHE:CZ	2:C:252:LYS:HA	2.55	0.42
2:C:401:LEU:HD12	2:C:401:LEU:O	2.20	0.42
2:C:537:LYS:HZ2	2:C:904:PRO:HB3	1.84	0.42
2:C:544:THR:O	2:C:546:LEU:N	2.52	0.42
2:C:1048:THR:O	2:C:1052:MET:HG2	2.20	0.42
3:D:180:LYS:HZ1	3:D:357:GLU:HB2	1.83	0.42
3:D:463:GLN:O	3:D:467:GLU:HG3	2.19	0.42
3:D:696:HIS:NE2	4:E:54:LEU:HD11	2.35	0.42
3:D:779:ALA:HB1	3:D:931:LEU:HD22	2.02	0.42
3:D:830:ALA:O	3:D:831:GLY:C	2.58	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1159:ARG:HG2	3:D:1159:ARG:HH11	1.84	0.42
3:D:1168:MET:HE2	3:D:1168:MET:O	2.19	0.42
2:H:199:VAL:HG13	2:H:235:LEU:CD2	2.49	0.42
2:H:224:GLU:HB3	2:H:228:ALA:HB2	2.01	0.42
2:H:232:GLU:O	2:H:235:LEU:HG	2.19	0.42
2:H:277:ALA:O	2:H:278:GLU:C	2.57	0.42
2:H:328:LEU:CD1	2:H:328:LEU:N	2.83	0.42
2:H:425:PHE:HA	2:H:428:ARG:HD2	2.00	0.42
2:H:572:ILE:HG13	2:H:572:ILE:H	1.55	0.42
2:H:572:ILE:CD1	2:H:573:ARG:N	2.78	0.42
2:H:575:GLN:N	2:H:667:ALA:HB1	2.34	0.42
2:H:607:ASP:C	2:H:609:ASN:N	2.72	0.42
2:H:672:VAL:HG22	2:H:994:ILE:HD13	2.01	0.42
2:H:676:ILE:HD12	2:H:871:LEU:O	2.19	0.42
2:H:690:ILE:HD13	2:H:690:ILE:C	2.39	0.42
2:H:1051:GLU:OE2	3:I:751:LEU:N	2.52	0.42
3:I:105:VAL:HG21	3:I:128:TYR:HE1	1.83	0.42
3:I:150:ARG:HH22	3:I:468:LEU:CD1	2.25	0.42
3:I:348:GLN:HB3	3:I:349:PRO:CD	2.49	0.42
3:I:496:LEU:CD2	3:I:1388:ARG:HD3	2.41	0.42
3:I:645:PRO:HB2	3:I:648:MET:HG3	2.00	0.42
3:I:745:MET:HE2	3:I:745:MET:HB3	1.88	0.42
3:I:785:ILE:O	3:I:789:LEU:HG	2.20	0.42
3:I:792:ILE:CD1	3:I:881:LEU:HD23	2.49	0.42
3:I:807:ALA:HB2	3:I:833:GLU:CD	2.39	0.42
3:I:882:PHE:CE1	3:I:906:GLN:HG3	2.53	0.42
3:I:1205:TYR:CE2	3:I:1366:LYS:HD3	2.55	0.42
3:I:1412:LYS:C	3:I:1414:PRO:HD3	2.40	0.42
3:I:1447:LEU:HD12	3:I:1447:LEU:N	2.34	0.42
3:I:1481:VAL:O	3:I:1484:THR:OG1	2.37	0.42
1:K:152:PRO:HB2	1:K:155:LYS:HB2	2.00	0.42
1:K:165:ILE:O	1:K:165:ILE:HG12	2.19	0.42
1:L:172:SER:C	1:L:174:VAL:N	2.72	0.42
2:M:1:MET:HG3	2:M:899:GLN:HA	1.99	0.42
2:M:721:ARG:CG	2:M:820:ARG:HH12	2.10	0.42
2:M:952:LEU:HD12	2:M:969:GLN:HE22	1.84	0.42
3:N:171:LEU:HD13	3:N:390:PRO:O	2.19	0.42
3:N:577:ALA:O	3:N:580:ALA:HB3	2.19	0.42
3:N:644:LEU:HD23	3:N:718:PRO:HB3	2.01	0.42
3:N:659:LYS:HE3	3:N:659:LYS:HA	2.00	0.42
3:N:778:LEU:C	3:N:780:LYS:H	2.23	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:783:ARG:HE	3:N:1029:ARG:HE	1.67	0.42
3:N:1194:CYS:SG	3:N:1196:THR:HB	2.59	0.42
3:N:1408:ILE:HD12	3:N:1408:ILE:N	2.26	0.42
1:B:123:MET:O	1:B:125:PRO:HD3	2.18	0.42
2:C:91:GLN:HA	2:C:119:PRO:HA	2.00	0.42
2:C:95:TYR:HA	2:C:114:PHE:CB	2.49	0.42
2:C:151:ASP:OD2	2:C:152:PRO:HD2	2.18	0.42
2:C:230:ARG:HB3	2:C:233:GLU:HB3	2.01	0.42
2:C:302:VAL:HG13	2:C:303:PHE:HD1	1.83	0.42
2:C:479:VAL:HG23	2:C:479:VAL:O	2.19	0.42
2:C:524:VAL:CG1	2:C:528:GLU:HB2	2.48	0.42
2:C:611:ILE:HG13	2:C:625:LEU:CD1	2.42	0.42
2:C:755:LEU:HD21	2:C:792:VAL:CG2	2.49	0.42
2:C:939:ARG:HA	2:C:939:ARG:HE	1.84	0.42
2:C:1008:ARG:NH2	2:C:1020:PRO:HB3	2.35	0.42
2:C:1032:PHE:HD2	2:C:1037:VAL:HG22	1.83	0.42
2:C:1097:LEU:HD21	3:D:103:TRP:HZ3	1.84	0.42
3:D:86:ARG:HH11	3:D:86:ARG:HG3	1.82	0.42
3:D:99:ALA:O	3:D:458:ALA:HB1	2.19	0.42
3:D:417:PRO:HG3	3:D:431:VAL:N	2.34	0.42
3:D:520:LEU:HD21	3:D:524:LEU:HB3	2.02	0.42
3:D:567:ILE:HG22	3:D:568:ARG:N	2.34	0.42
3:D:782:SER:OG	3:D:783:ARG:HG2	2.19	0.42
3:D:1279:GLY:HA3	3:D:1296:SER:HB3	2.01	0.42
3:D:1426:LYS:O	3:D:1429:LEU:HB2	2.20	0.42
3:D:1475:GLY:HA2	4:E:17:TYR:CE1	2.54	0.42
3:D:1495:ILE:HG13	4:E:80:VAL:CG1	2.50	0.42
1:F:109:VAL:CG1	1:F:129:ILE:HB	2.49	0.42
1:G:43:ILE:C	1:G:45:LEU:N	2.73	0.42
2:H:47:ALA:HB1	2:H:348:LEU:CD2	2.49	0.42
2:H:1048:THR:HG21	3:I:763:MET:HE3	2.01	0.42
2:H:1075:ASP:OD2	2:H:1076:VAL:N	2.52	0.42
2:H:1089:VAL:HG21	2:H:1111:ILE:HD13	2.00	0.42
3:I:45:PHE:HE1	3:I:525:ARG:NH1	2.16	0.42
3:I:575:GLN:OE1	3:I:575:GLN:HA	2.19	0.42
3:I:602:SER:O	3:I:605:ASP:HB2	2.20	0.42
3:I:848:GLU:HA	3:I:851:LEU:CD1	2.48	0.42
3:I:1277:ILE:HD12	3:I:1277:ILE:N	2.35	0.42
1:K:230:ALA:HA	1:L:13:VAL:O	2.19	0.42
1:L:100:LEU:HB2	1:L:115:LEU:HD21	2.01	0.42
2:M:104:ASP:O	2:M:105:THR:C	2.58	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:499:ALA:HA	2:M:532:MET:CE	2.49	0.42
2:M:611:ILE:HG13	2:M:625:LEU:HD21	2.00	0.42
2:M:616:GLU:C	2:M:618:GLY:H	2.22	0.42
2:M:712:ALA:O	2:M:820:ARG:HG2	2.18	0.42
2:M:964:LYS:O	2:M:968:LEU:HG	2.20	0.42
3:N:203:ALA:HB1	3:N:393:ILE:CG2	2.49	0.42
3:N:408:GLU:OE2	3:N:422:ALA:HA	2.20	0.42
3:N:551:ASN:O	3:N:555:LYS:HG3	2.19	0.42
3:N:637:LEU:HD11	3:N:641:GLN:C	2.39	0.42
3:N:644:LEU:C	3:N:721:VAL:HG22	2.40	0.42
3:N:820:GLU:OE1	3:N:836:VAL:HG21	2.18	0.42
3:N:1299:PHE:H	3:N:1299:PHE:HD2	1.66	0.42
5:Z:96:SER:OG	5:Z:98:GLU:OE2	2.38	0.42
1:A:101:LEU:HB2	1:A:114:PHE:HA	2.02	0.42
1:A:101:LEU:HD22	1:A:114:PHE:N	2.34	0.42
1:A:142:VAL:O	1:A:142:VAL:CG2	2.66	0.42
1:A:180:GLN:OE1	1:A:198:ARG:NH2	2.53	0.42
2:C:50:GLU:OE2	2:C:345:ARG:HB3	2.20	0.42
2:C:703:ILE:HD12	2:C:703:ILE:H	1.84	0.42
2:C:1095:LEU:HD22	3:D:603:LEU:HD13	2.01	0.42
3:D:15:PRO:CA	3:D:18:ILE:HG12	2.50	0.42
3:D:690:ALA:O	3:D:693:GLU:HB3	2.20	0.42
3:D:1197:ARG:HA	3:D:1396:GLU:CG	2.45	0.42
4:E:51:LEU:HD12	4:E:53:GLY:H	1.85	0.42
4:E:81:PRO:HG2	4:E:84:ARG:HH11	1.84	0.42
1:F:31:GLY:O	1:F:34:VAL:HG12	2.20	0.42
1:G:90:LEU:HB3	1:G:119:ASP:CB	2.41	0.42
1:G:122:ILE:C	1:G:124:ASN:H	2.23	0.42
2:H:30:LEU:HD23	2:H:340:MET:CE	2.45	0.42
2:H:109:LYS:NZ	2:H:369:PRO:HD3	2.34	0.42
2:H:162:ILE:HB	2:H:172:ILE:HG13	2.00	0.42
2:H:310:LEU:O	2:H:314:THR:HG23	2.20	0.42
2:H:829:GLN:HG3	2:H:831:ARG:NH1	2.28	0.42
2:H:1008:ARG:HA	3:I:651:GLU:OE2	2.18	0.42
3:I:150:ARG:HH12	3:I:468:LEU:CD1	2.26	0.42
3:I:212:ARG:HB3	3:I:386:HIS:CB	2.50	0.42
3:I:781:PRO:HB2	3:I:786:ILE:CD1	2.50	0.42
3:I:850:LEU:H	3:I:850:LEU:CD1	2.10	0.42
3:I:866:VAL:O	3:I:873:LEU:HD12	2.19	0.42
3:I:1106:VAL:CG1	3:I:1107:VAL:N	2.82	0.42
3:I:1274:ILE:H	3:I:1274:ILE:HG13	1.75	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:1282:ARG:HA	3:I:1315:ASP:OD1	2.19	0.42
3:I:1365:ASP:HA	3:I:1368:ILE:CD1	2.48	0.42
1:K:64:GLU:CA	1:K:75:VAL:HG11	2.43	0.42
1:L:83:LYS:O	1:L:170:VAL:HG21	2.19	0.42
1:L:101:LEU:CD2	1:L:140:MET:HG2	2.50	0.42
1:L:194:LYS:HG2	1:L:194:LYS:O	2.18	0.42
2:M:607:ASP:HB3	2:M:610:ARG:H	1.85	0.42
2:M:688:ILE:N	2:M:848:VAL:O	2.52	0.42
3:N:99:ALA:HB3	3:N:514:LEU:CG	2.48	0.42
3:N:109:PRO:HB3	3:N:494:LYS:HZ1	1.84	0.42
3:N:176:ASP:CB	3:N:389:GLU:HG2	2.49	0.42
3:N:433:GLY:HA3	3:N:447:VAL:O	2.19	0.42
3:N:466:LYS:HG2	3:N:510:GLU:CG	2.50	0.42
3:N:480:GLU:HG3	3:N:480:GLU:O	2.19	0.42
3:N:831:GLY:HA3	3:N:834:THR:C	2.40	0.42
3:N:836:VAL:HG13	3:N:837:GLY:N	2.34	0.42
3:N:1094:LEU:O	3:N:1095:THR:C	2.57	0.42
5:X:75:LEU:HD22	5:X:85:LEU:HB2	2.01	0.42
5:X:90:GLU:HG2	5:X:101:SER:HA	2.01	0.42
1:A:45:LEU:HD23	1:A:174:VAL:HB	1.99	0.42
1:A:73:GLU:HB2	1:A:78:ILE:HD13	2.00	0.42
1:B:80:LEU:HB3	3:D:867:ARG:NH2	2.35	0.42
2:C:430:VAL:CG1	3:D:1075:HIS:HA	2.50	0.42
3:D:101:HIS:CE1	3:D:582:LEU:HD21	2.55	0.42
3:D:465:LEU:CD1	3:D:512:MET:HB2	2.50	0.42
3:D:473:LEU:H	3:D:473:LEU:CD1	2.29	0.42
3:D:544:TYR:O	3:D:548:ILE:HG12	2.20	0.42
3:D:796:ARG:HD3	3:D:1017:PHE:CE1	2.55	0.42
3:D:889:ALA:CB	3:D:930:LEU:HA	2.50	0.42
3:D:907:GLU:CD	3:D:908:LYS:N	2.73	0.42
3:D:1121:PRO:HB2	3:D:1135:ARG:NH1	2.33	0.42
3:D:1197:ARG:CB	3:D:1396:GLU:HG3	2.50	0.42
3:D:1293:PHE:CE2	3:D:1302:GLU:HB2	2.54	0.42
1:F:28:LEU:HD22	1:F:32:PHE:CB	2.48	0.42
1:G:49:PRO:HA	1:G:148:VAL:HG12	2.01	0.42
1:G:185:ARG:HB2	3:I:720:LEU:HD21	2.02	0.42
2:H:5:ARG:HB2	2:H:902:ILE:HB	2.01	0.42
2:H:351:LEU:HD12	2:H:351:LEU:O	2.20	0.42
2:H:755:LEU:HD12	2:H:825:VAL:HG21	2.01	0.42
2:H:1067:TYR:CD1	2:H:1071:ILE:HD11	2.55	0.42
3:I:137:PRO:CD	3:I:453:ASP:O	2.68	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:368:VAL:HB	3:I:377:VAL:HB	2.01	0.42
3:I:578:VAL:O	3:I:582:LEU:HG	2.20	0.42
3:I:919:PHE:HZ	3:I:1211:MET:HG3	1.84	0.42
3:I:1389:LEU:HD12	3:I:1389:LEU:O	2.19	0.42
3:I:1395:LEU:O	3:I:1395:LEU:HD23	2.20	0.42
1:K:81:ASN:O	1:K:127:LEU:HD11	2.19	0.42
1:K:218:LEU:O	1:K:222:LEU:HD13	2.20	0.42
2:M:226:VAL:HG13	2:M:227:PHE:N	2.34	0.42
2:M:673:LEU:CD1	2:M:867:VAL:HA	2.42	0.42
3:N:8:VAL:O	3:N:1434:TRP:HH2	2.03	0.42
3:N:841:TYR:HB2	3:N:864:VAL:CG1	2.47	0.42
3:N:1161:GLU:OE1	3:N:1164:ARG:HB2	2.19	0.42
4:O:48:MET:N	4:O:54:LEU:CB	2.82	0.42
5:X:83:ILE:CD1	5:X:89:VAL:HG21	2.47	0.42
5:Z:106:SER:O	5:Z:108:ALA:N	2.53	0.42
1:B:13:VAL:O	1:B:14:ARG:HG3	2.20	0.42
2:C:107:LEU:CD2	2:C:109:LYS:H	2.31	0.42
2:C:479:VAL:CG1	2:C:503:LEU:HD21	2.39	0.42
2:C:512:ARG:HD3	2:C:523:ILE:HG21	2.01	0.42
2:C:586:ARG:O	2:C:589:ARG:HB3	2.18	0.42
2:C:683:ASN:O	2:C:684:PHE:O	2.38	0.42
2:C:858:MET:HG3	2:C:867:VAL:CG2	2.50	0.42
2:C:944:LEU:HD23	2:C:944:LEU:HA	1.92	0.42
2:C:1032:PHE:HZ	2:C:1040:LEU:HD22	1.84	0.42
3:D:136:ASP:HB3	3:D:137:PRO:CD	2.49	0.42
3:D:398:ALA:HB2	3:D:447:VAL:HA	2.01	0.42
3:D:1166:LEU:H	3:D:1166:LEU:CD2	2.26	0.42
3:D:1237:THR:O	3:D:1238:MET:CB	2.66	0.42
3:D:1323:GLN:HA	3:D:1324:PRO:HD3	1.83	0.42
1:G:51:THR:O	1:G:171:PHE:HA	2.19	0.42
2:H:15:LEU:HD21	2:H:583:LEU:CD1	2.44	0.42
2:H:21:ILE:H	2:H:21:ILE:CD1	2.12	0.42
2:H:149:THR:O	2:H:159:ILE:HG13	2.19	0.42
2:H:237:ARG:HH11	2:H:237:ARG:HG3	1.84	0.42
2:H:251:ASP:C	2:H:253:ALA:N	2.72	0.42
2:H:275:TYR:C	2:H:277:ALA:N	2.73	0.42
2:H:326:ASP:OD1	2:H:427:VAL:HG22	2.19	0.42
2:H:354:GLY:HA3	2:H:358:ARG:CZ	2.49	0.42
2:H:441:VAL:HG12	2:H:559:LEU:HA	2.01	0.42
2:H:626:ARG:HB3	2:H:629:TYR:CE1	2.54	0.42
2:H:673:LEU:O	2:H:869:VAL:HG12	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:861:LEU:CG	2:H:862:PRO:HD2	2.49	0.42
2:H:1056:LYS:HE2	3:I:751:LEU:HD23	2.02	0.42
3:I:400:VAL:HB	3:I:445:ARG:NH2	2.35	0.42
3:I:461:ILE:HD13	3:I:464:LEU:HD12	2.01	0.42
3:I:925:GLU:CG	3:I:926:LYS:N	2.83	0.42
3:I:926:LYS:HA	3:I:929:ARG:HD2	2.01	0.42
3:I:1461:GLY:N	3:I:1473:PRO:HG2	2.30	0.42
4:J:39:VAL:HG21	4:J:73:LEU:HD21	2.02	0.42
1:K:61:VAL:HG12	1:K:62:LEU:N	2.35	0.42
1:K:165:ILE:HA	1:K:166:PRO:HD3	1.90	0.42
1:L:63:HIS:CD2	3:N:813:LEU:HD11	2.55	0.42
1:L:223:THR:C	1:L:225:PHE:H	2.23	0.42
2:M:20:GLU:HA	2:M:23:VAL:HB	2.01	0.42
2:M:107:LEU:HD11	2:M:109:LYS:CB	2.49	0.42
2:M:218:VAL:HG23	2:M:221:LEU:HD11	2.02	0.42
2:M:257:VAL:O	2:M:263:ASP:HB2	2.20	0.42
2:M:525:SER:OG	2:M:527:GLU:HG2	2.19	0.42
2:M:756:VAL:CG2	2:M:790:LEU:HD22	2.49	0.42
2:M:799:ILE:N	2:M:828:ALA:O	2.48	0.42
2:M:1059:ASP:CG	2:M:1083:GLU:HG2	2.40	0.42
2:M:1087:VAL:O	2:M:1091:GLU:HG3	2.20	0.42
3:N:109:PRO:HD3	3:N:1445:HIS:NE2	2.34	0.42
3:N:537:THR:OG1	3:N:538:SER:N	2.53	0.42
3:N:540:LEU:HD12	3:N:540:LEU:N	2.32	0.42
3:N:781:PRO:CB	3:N:785:ILE:HG21	2.48	0.42
3:N:839:LEU:HD22	3:N:839:LEU:N	2.34	0.42
3:N:875:THR:OG1	3:N:876:SER:N	2.49	0.42
3:N:1087:ARG:HD2	3:N:1235:GLN:HA	2.01	0.42
3:N:1209:LEU:C	3:N:1211:MET:N	2.71	0.42
3:N:1257:PRO:HA	3:N:1260:ILE:CD1	2.50	0.42
3:N:1381:VAL:HG22	3:N:1398:TRP:CH2	2.55	0.42
3:N:1398:TRP:CE3	3:N:1417:TRP:HB3	2.55	0.42
5:X:59:GLU:O	5:X:62:ILE:HG22	2.20	0.42
5:X:103:GLN:NE2	5:X:105:VAL:HG13	2.34	0.42
5:Z:66:GLU:O	5:Z:67:ASP:C	2.58	0.42
1:B:194:LYS:HZ2	1:B:196:THR:HG21	1.84	0.42
2:C:254:VAL:O	2:C:257:VAL:HB	2.20	0.42
2:C:445:GLU:HA	2:C:445:GLU:OE1	2.19	0.42
2:C:537:LYS:C	2:C:539:VAL:N	2.73	0.42
2:C:882:LEU:O	2:C:883:GLY:C	2.58	0.42
2:C:1046:ALA:HB1	3:D:1471:LEU:CG	2.48	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1100:GLN:O	3:D:9:ARG:HB3	2.19	0.42
2:C:1112:PHE:CD1	2:C:1112:PHE:N	2.88	0.42
3:D:509:PRO:O	3:D:512:MET:CG	2.68	0.42
3:D:537:THR:C	3:D:538:SER:O	2.57	0.42
3:D:642:CYS:CB	3:D:716:PHE:HB3	2.50	0.42
3:D:714:GLN:HB2	3:D:736:PHE:HZ	1.85	0.42
3:D:768:ASN:C	3:D:769:LEU:HD23	2.41	0.42
3:D:1021:TYR:O	3:D:1022:VAL:C	2.58	0.42
3:D:1374:GLN:HA	3:D:1377:LYS:HB2	2.02	0.42
3:D:1487:VAL:CG2	4:E:79:LEU:HD23	2.50	0.42
1:F:77:GLU:O	1:F:81:ASN:OD1	2.38	0.42
1:G:182:GLU:CD	1:G:182:GLU:H	2.23	0.42
2:H:37:GLU:C	2:H:39:ARG:H	2.22	0.42
2:H:65:VAL:C	2:H:100:LEU:HD22	2.40	0.42
2:H:135:VAL:HB	2:H:406:HIS:CE1	2.55	0.42
2:H:300:ASP:C	2:H:302:VAL:N	2.72	0.42
2:H:384:GLU:HG3	2:H:388:ARG:HD2	2.01	0.42
2:H:565:GLN:OE1	2:H:995:MET:HE2	2.19	0.42
2:H:689:VAL:HG12	2:H:690:ILE:N	2.35	0.42
2:H:755:LEU:N	2:H:755:LEU:CD2	2.75	0.42
2:H:1017:THR:HG22	2:H:1018:GLN:N	2.34	0.42
3:I:133:ILE:CG2	3:I:454:ALA:HB1	2.50	0.42
3:I:669:ASN:O	3:I:672:ALA:HB3	2.19	0.42
3:I:702:LEU:HD22	3:I:702:LEU:N	2.34	0.42
3:I:880:ILE:HG23	3:I:881:LEU:N	2.35	0.42
3:I:925:GLU:CG	3:I:926:LYS:H	2.32	0.42
3:I:997:THR:HG21	5:Y:61:ARG:HH12	1.83	0.42
3:I:1000:THR:HA	3:I:1003:VAL:CG1	2.49	0.42
3:I:1043:GLY:O	3:I:1057:VAL:HG23	2.19	0.42
4:J:82:GLU:HB2	4:J:83:ASP:H	1.64	0.42
1:K:86:VAL:N	1:K:124:ASN:HD22	2.18	0.42
1:K:175:ARG:CB	1:K:200:TRP:HB2	2.50	0.42
1:L:156:HIS:CE1	1:L:158:ILE:H	2.38	0.42
2:M:2:GLU:OE1	2:M:2:GLU:N	2.53	0.42
2:M:31:GLN:CG	2:M:45:GLN:HE22	2.31	0.42
2:M:226:VAL:HG13	2:M:227:PHE:HD1	1.84	0.42
2:M:227:PHE:C	2:M:229:MET:H	2.21	0.42
2:M:270:GLY:C	2:M:274:ARG:HB3	2.41	0.42
2:M:1013:TYR:OH	2:M:1063:ARG:HG3	2.20	0.42
2:M:1038:TRP:HA	2:M:1041:GLU:OE1	2.20	0.42
3:N:651:GLU:C	3:N:653:PHE:N	2.72	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:907:GLU:H	3:N:910:SER:HG	1.66	0.42
3:N:1154:GLU:HG3	3:N:1158:VAL:C	2.40	0.42
3:N:1387:SER:HB3	3:N:1391:GLU:OE2	2.19	0.42
5:X:106:SER:HA	5:X:107:PRO:HD3	1.89	0.42
5:Z:7:LEU:HD22	5:Z:109:GLU:CG	2.42	0.42
1:B:53:VAL:HA	1:B:144:VAL:CG2	2.37	0.42
1:B:86:VAL:CG1	1:B:124:ASN:HB2	2.37	0.42
1:B:124:ASN:N	1:B:125:PRO:HD3	2.33	0.42
1:B:172:SER:O	1:B:174:VAL:N	2.52	0.42
2:C:151:ASP:CG	2:C:152:PRO:CD	2.87	0.42
2:C:227:PHE:O	2:C:229:MET:N	2.51	0.42
2:C:487:THR:HG22	2:C:489:THR:H	1.84	0.42
2:C:554:ASP:OD2	2:C:556:ASN:CB	2.68	0.42
2:C:710:ILE:HG13	2:C:758:ARG:HH11	1.85	0.42
2:C:754:ILE:HD11	2:C:791:ARG:NH1	2.34	0.42
2:C:1102:LEU:HB2	3:D:7:LYS:HB2	2.00	0.42
3:D:601:ARG:HH11	3:D:606:ILE:HD12	1.85	0.42
3:D:641:GLN:HB3	3:D:717:GLN:O	2.20	0.42
3:D:782:SER:OG	3:D:783:ARG:NH1	2.53	0.42
3:D:782:SER:C	3:D:786:ILE:HD13	2.40	0.42
3:D:817:GLU:O	3:D:821:VAL:HG23	2.20	0.42
3:D:1147:ARG:O	3:D:1165:TYR:HA	2.20	0.42
3:D:1148:VAL:O	3:D:1188:VAL:HG23	2.20	0.42
3:D:1392:GLY:N	3:D:1393:GLN:HE21	2.16	0.42
2:H:170:PRO:HG2	2:H:258:TYR:CD2	2.54	0.42
2:H:333:ILE:HG23	2:H:334:ARG:N	2.35	0.42
2:H:346:VAL:O	2:H:350:ARG:HG2	2.19	0.42
2:H:408:ARG:NH2	2:H:455:LEU:HG	2.35	0.42
2:H:473:ARG:NE	2:H:531:PHE:HE1	2.18	0.42
2:H:483:VAL:HG12	2:H:484:VAL:N	2.35	0.42
3:I:208:PRO:CB	3:I:387:LEU:HD22	2.49	0.42
3:I:702:LEU:HD13	3:I:702:LEU:HA	1.84	0.42
3:I:864:VAL:CG1	3:I:865:THR:N	2.81	0.42
3:I:939:PHE:O	3:I:943:THR:HG23	2.20	0.42
3:I:1398:TRP:HZ3	3:I:1415:VAL:HB	1.84	0.42
4:J:23:VAL:CG1	4:J:64:ALA:HB3	2.50	0.42
4:J:48:MET:HG3	4:J:49:GLN:N	2.34	0.42
1:K:58:ILE:HA	1:K:139:ASN:O	2.20	0.42
1:L:21:GLY:O	1:L:198:ARG:HA	2.20	0.42
1:L:176:ARG:HD2	3:N:884:ARG:HH21	1.85	0.42
2:M:270:GLY:O	2:M:274:ARG:HB3	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:428:ARG:HG2	2:M:428:ARG:NH1	2.35	0.42
2:M:469:THR:O	2:M:485:TYR:HA	2.20	0.42
2:M:841:ASN:HB2	2:M:992:MET:HE2	2.01	0.42
2:M:979:THR:HG23	2:M:981:GLU:HB3	2.02	0.42
2:M:988:VAL:HG12	3:N:948:THR:HB	2.00	0.42
3:N:92:HIS:HA	3:N:518:PRO:HA	2.02	0.42
3:N:493:ARG:NH1	3:N:1390:LEU:O	2.53	0.42
3:N:916:TYR:OH	3:N:1168:MET:HB2	2.20	0.42
3:N:1092:GLY:O	3:N:1093:TYR:C	2.56	0.42
3:N:1196:THR:O	3:N:1197:ARG:C	2.58	0.42
3:N:1207:TYR:HE2	3:N:1214:PRO:HD3	1.85	0.42
5:X:5:VAL:O	5:X:72:ALA:HA	2.20	0.42
5:X:137:VAL:HG22	5:X:150:ARG:CB	2.46	0.42
1:A:86:VAL:O	1:A:86:VAL:CG1	2.67	0.41
1:A:171:PHE:O	1:A:172:SER:C	2.57	0.41
1:B:13:VAL:HG13	1:B:23:PHE:CE1	2.55	0.41
2:C:44:ILE:CD1	2:C:44:ILE:H	2.33	0.41
2:C:251:ASP:C	2:C:253:ALA:N	2.73	0.41
2:C:480:THR:CG2	2:C:482:GLU:HG2	2.50	0.41
2:C:500:ASN:ND2	2:C:500:ASN:N	2.68	0.41
2:C:536:PRO:O	2:C:539:VAL:HG23	2.20	0.41
2:C:572:ILE:CD1	2:C:573:ARG:N	2.79	0.41
2:C:622:GLU:O	2:C:623:TYR:CD2	2.72	0.41
3:D:205:TYR:OH	3:D:208:PRO:HD3	2.20	0.41
3:D:601:ARG:HD3	3:D:606:ILE:HD13	2.02	0.41
3:D:632:VAL:HG12	3:D:633:VAL:N	2.35	0.41
3:D:637:LEU:HD12	3:D:641:GLN:OE1	2.20	0.41
3:D:1326:THR:HG22	3:D:1327:ARG:N	2.35	0.41
3:D:1331:ASP:HB3	3:D:1334:GLN:HB2	2.01	0.41
3:D:1389:LEU:HG	3:D:1389:LEU:O	2.19	0.41
1:F:58:ILE:HD12	1:F:140:MET:CB	2.49	0.41
1:F:100:LEU:O	1:F:115:LEU:HG	2.20	0.41
1:F:156:HIS:CD2	1:F:157:GLY:H	2.38	0.41
2:H:41:ASN:O	2:H:42:VAL:C	2.58	0.41
2:H:135:VAL:HG11	2:H:406:HIS:ND1	2.35	0.41
2:H:168:ARG:O	2:H:168:ARG:HG2	2.20	0.41
2:H:274:ARG:HE	2:H:285:LEU:HB3	1.85	0.41
2:H:683:ASN:HA	2:H:687:ALA:CB	2.49	0.41
2:H:708:TYR:CE2	2:H:793:PRO:HG2	2.55	0.41
2:H:1085:PHE:O	2:H:1089:VAL:HG23	2.19	0.41
3:I:108:VAL:CB	3:I:109:PRO:CD	2.92	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:127:LEU:HD22	3:I:134:VAL:CG2	2.50	0.41
3:I:153:LEU:CD1	3:I:153:LEU:C	2.88	0.41
3:I:210:ARG:HH21	3:I:348:GLN:HE22	1.67	0.41
3:I:850:LEU:O	3:I:851:LEU:C	2.58	0.41
3:I:1155:VAL:C	3:I:1157:GLY:H	2.24	0.41
1:K:170:VAL:HG23	1:K:170:VAL:O	2.20	0.41
1:K:229:GLN:HB3	1:L:12:THR:CB	2.50	0.41
1:L:41:ARG:NH1	1:L:177:VAL:O	2.53	0.41
1:L:43:ILE:O	1:L:45:LEU:N	2.53	0.41
1:L:151:VAL:N	1:L:169:ALA:HB3	2.19	0.41
2:M:100:LEU:HD13	2:M:100:LEU:C	2.40	0.41
2:M:165:LEU:HA	2:M:166:PRO:O	2.20	0.41
2:M:404:LEU:HD12	2:M:404:LEU:HA	1.86	0.41
2:M:545:ASN:HB3	2:M:583:LEU:HD22	2.01	0.41
2:M:619:ARG:NH1	2:M:619:ARG:HB3	2.35	0.41
2:M:689:VAL:HG12	2:M:690:ILE:N	2.35	0.41
2:M:1081:VAL:HG13	2:M:1085:PHE:CD1	2.55	0.41
3:N:90:MET:SD	3:N:521:PRO:HD3	2.60	0.41
3:N:395:VAL:HG12	3:N:396:VAL:N	2.35	0.41
3:N:545:ARG:NH1	3:N:545:ARG:HB3	2.35	0.41
3:N:548:ILE:HD12	3:N:548:ILE:N	2.35	0.41
3:N:808:THR:OG1	3:N:809:PRO:HD3	2.20	0.41
3:N:1108:ARG:NE	3:N:1198:TYR:O	2.53	0.41
3:N:1152:GLU:HB2	3:N:1162:GLU:N	2.36	0.41
3:N:1363:LEU:N	3:N:1363:LEU:CD2	2.82	0.41
3:N:1375:MET:O	3:N:1421:LEU:HA	2.20	0.41
3:N:1388:ARG:N	3:N:1391:GLU:OE2	2.53	0.41
3:N:1422:MET:HB2	3:N:1426:LYS:CD	2.49	0.41
3:N:1465:ASN:HD21	3:N:1470:ARG:HB3	1.85	0.41
5:X:15:LEU:HD11	5:X:108:ALA:O	2.20	0.41
5:Y:36:ALA:HA	5:Y:39:GLU:OE1	2.20	0.41
1:A:57:TYR:CD2	1:A:161:ARG:NH2	2.88	0.41
1:B:172:SER:C	1:B:174:VAL:N	2.73	0.41
2:C:92:ALA:C	2:C:117:HIS:HB3	2.41	0.41
2:C:507:ARG:HG2	2:C:507:ARG:HH11	1.85	0.41
2:C:668:LEU:HD12	2:C:668:LEU:N	2.29	0.41
2:C:839:LEU:N	2:C:839:LEU:CD2	2.76	0.41
2:C:862:PRO:HG2	2:C:973:VAL:HB	2.02	0.41
3:D:795:VAL:HG12	3:D:796:ARG:N	2.34	0.41
3:D:839:LEU:HD12	3:D:839:LEU:HA	1.92	0.41
3:D:951:ILE:HG23	3:D:952:ASP:OD1	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1031:ASN:HB3	3:D:1034:GLN:CG	2.49	0.41
3:D:1330:ILE:HD13	3:D:1347:TYR:OH	2.20	0.41
3:D:1372:VAL:HA	3:D:1375:MET:CE	2.50	0.41
3:D:1481:VAL:O	3:D:1481:VAL:HG12	2.20	0.41
4:E:48:MET:CB	4:E:54:LEU:HB2	2.45	0.41
1:F:87:VAL:HG12	1:F:122:ILE:HG22	2.02	0.41
1:F:101:LEU:O	1:F:140:MET:SD	2.79	0.41
1:G:74:ASP:OD2	1:L:162:ILE:HG22	2.21	0.41
1:G:121:GLU:HG2	1:G:122:ILE:N	2.35	0.41
1:G:125:PRO:O	1:G:127:LEU:N	2.52	0.41
1:G:125:PRO:C	1:G:127:LEU:H	2.23	0.41
2:H:178:PRO:O	2:H:180:GLY:N	2.53	0.41
2:H:205:GLU:HA	2:H:209:ARG:HE	1.84	0.41
2:H:283:ILE:CG1	2:H:284:ARG:H	2.33	0.41
2:H:310:LEU:HD12	2:H:314:THR:CG2	2.50	0.41
2:H:370:ALA:HA	2:H:373:VAL:HG12	2.03	0.41
2:H:537:LYS:HE3	2:H:537:LYS:H	1.80	0.41
2:H:678:PRO:HD2	3:I:947:ILE:CD1	2.50	0.41
2:H:1056:LYS:HB3	3:I:624:ASP:H	1.86	0.41
3:I:644:LEU:HA	3:I:645:PRO:HD3	1.94	0.41
3:I:676:MET:HB3	3:I:677:LEU:CD2	2.44	0.41
3:I:771:SER:CA	3:I:778:LEU:HD11	2.50	0.41
3:I:779:ALA:HB1	3:I:931:LEU:HD22	2.02	0.41
3:I:921:ARG:HG3	3:I:921:ARG:NH1	2.32	0.41
3:I:951:ILE:CD1	3:I:1062:ARG:HE	2.33	0.41
3:I:1020:LEU:HD11	3:I:1035:ILE:CD1	2.49	0.41
3:I:1379:VAL:HG11	3:I:1395:LEU:HG	2.01	0.41
4:J:19:LEU:O	4:J:22:VAL:HB	2.20	0.41
1:K:68:ILE:N	1:K:68:ILE:CD1	2.83	0.41
1:K:102:LYS:HG2	1:K:139:ASN:CA	2.42	0.41
1:K:153:ALA:N	1:K:168:ASP:OD1	2.52	0.41
1:K:162:ILE:HD13	1:K:162:ILE:N	2.35	0.41
1:K:199:ILE:HG13	1:K:207:PRO:HB3	2.02	0.41
1:L:68:ILE:HD13	1:L:68:ILE:HA	1.89	0.41
2:M:619:ARG:HB3	2:M:619:ARG:HH11	1.85	0.41
2:M:637:LEU:HA	2:M:659:PRO:HG3	2.00	0.41
2:M:683:ASN:OD1	2:M:872:ASN:HB2	2.20	0.41
2:M:710:ILE:HG21	2:M:756:VAL:HG21	2.02	0.41
2:M:840:ALA:C	2:M:994:ILE:HG22	2.41	0.41
3:N:95:LEU:HA	3:N:551:ASN:OD1	2.19	0.41
3:N:209:ARG:HG2	3:N:389:GLU:O	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:584:ASN:ND2	3:N:590:PRO:HD2	2.35	0.41
3:N:650:LEU:HD13	3:N:688:TRP:CZ3	2.54	0.41
3:N:862:ASP:O	3:N:864:VAL:HG23	2.19	0.41
4:O:33:HIS:HE1	4:O:90:GLU:OE2	2.02	0.41
4:O:58:PRO:HG2	4:O:63:TRP:HE1	1.85	0.41
1:A:45:LEU:HD21	1:A:174:VAL:O	2.20	0.41
1:A:104:GLU:OE1	1:A:136:GLY:O	2.38	0.41
1:B:99:LEU:HD12	1:B:117:VAL:CG2	2.51	0.41
1:B:100:LEU:HB2	1:B:115:LEU:CD2	2.51	0.41
2:C:248:PRO:HD2	5:Y:82:VAL:HG21	2.02	0.41
2:C:259:GLY:HA3	2:C:293:PHE:HD2	1.85	0.41
2:C:368:THR:HB	2:C:369:PRO:CD	2.38	0.41
2:C:442:GLU:OE2	2:C:543:ASN:HB3	2.20	0.41
2:C:443:THR:HA	2:C:444:PRO:HD3	1.89	0.41
2:C:460:ARG:CB	2:C:460:ARG:NH1	2.83	0.41
3:D:128:TYR:HD2	3:D:128:TYR:HA	1.58	0.41
3:D:678:GLU:O	3:D:679:ARG:HB2	2.20	0.41
3:D:804:LEU:CD2	3:D:829:VAL:HB	2.50	0.41
3:D:907:GLU:HG2	3:D:1027:GLY:H	1.83	0.41
3:D:964:LEU:HG	3:D:1058:ARG:NH2	2.35	0.41
3:D:1001:GLU:O	3:D:1004:THR:HB	2.20	0.41
3:D:1206:GLY:C	3:D:1366:LYS:HZ1	2.24	0.41
1:G:62:LEU:HD12	1:G:63:HIS:H	1.85	0.41
2:H:281:LEU:O	2:H:282:GLY:C	2.58	0.41
2:H:676:ILE:HD11	2:H:873:PRO:N	2.35	0.41
2:H:910:LYS:O	2:H:911:GLU:C	2.58	0.41
2:H:1052:MET:HE1	2:H:1056:LYS:CD	2.50	0.41
3:I:111:LYS:HZ1	3:I:1452:ILE:CD1	2.33	0.41
3:I:447:VAL:O	3:I:449:SER:N	2.54	0.41
3:I:466:LYS:HA	3:I:510:GLU:HG2	2.03	0.41
3:I:634:GLY:O	3:I:637:LEU:HB3	2.20	0.41
3:I:784:ASP:O	3:I:787:LEU:N	2.54	0.41
3:I:804:LEU:O	3:I:804:LEU:CD1	2.66	0.41
3:I:951:ILE:HD13	3:I:951:ILE:C	2.41	0.41
3:I:1068:LEU:O	3:I:1071:PHE:N	2.54	0.41
3:I:1197:ARG:H	3:I:1197:ARG:HG3	1.57	0.41
3:I:1363:LEU:HD23	3:I:1363:LEU:N	2.34	0.41
3:I:1397:LYS:O	3:I:1400:VAL:HB	2.20	0.41
3:I:1426:LYS:HA	3:I:1426:LYS:HD3	1.88	0.41
1:K:63:HIS:HB3	2:M:799:ILE:CG2	2.46	0.41
1:K:85:LEU:HD12	1:K:124:ASN:HB2	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:206:THR:HG23	1:K:208:LEU:H	1.85	0.41
1:L:65:PHE:CE1	3:N:813:LEU:HD13	2.56	0.41
1:L:156:HIS:CG	1:L:157:GLY:N	2.87	0.41
2:M:334:ARG:HB3	2:M:339:LEU:CD2	2.48	0.41
2:M:360:LEU:HD23	2:M:361:MET:H	1.86	0.41
2:M:368:THR:O	2:M:372:LEU:HD13	2.20	0.41
2:M:569:VAL:HA	2:M:570:PRO:HD3	1.88	0.41
2:M:737:LEU:HD22	2:M:737:LEU:HA	1.95	0.41
2:M:923:GLU:O	2:M:927:GLY:HA3	2.19	0.41
2:M:946:ARG:HD3	2:M:984:GLU:OE1	2.20	0.41
3:N:109:PRO:HD3	3:N:1445:HIS:CE1	2.55	0.41
3:N:785:ILE:CG2	3:N:786:ILE:N	2.83	0.41
3:N:999:THR:CG2	3:N:1000:THR:N	2.83	0.41
3:N:1020:LEU:HG	3:N:1021:TYR:N	2.34	0.41
3:N:1107:VAL:HG12	3:N:1218:GLY:H	1.85	0.41
3:N:1260:ILE:H	3:N:1260:ILE:HG13	1.61	0.41
3:N:1330:ILE:HB	3:N:1347:TYR:CZ	2.55	0.41
3:N:1345:GLU:HA	3:N:1348:LEU:CD2	2.50	0.41
3:N:1401:GLU:O	3:N:1405:GLU:N	2.54	0.41
5:X:24:GLU:O	5:X:28:GLU:HG3	2.20	0.41
5:X:112:VAL:O	5:X:112:VAL:HG12	2.19	0.41
5:Y:152:VAL:O	5:Y:153:ALA:HB2	2.21	0.41
1:A:9:PRO:HD2	1:B:224:TYR:CZ	2.55	0.41
1:A:33:GLY:O	1:A:195:LEU:HD13	2.20	0.41
1:A:74:ASP:O	1:A:78:ILE:HG12	2.19	0.41
1:B:57:TYR:O	1:B:58:ILE:HD12	2.19	0.41
2:C:134:ARG:HB3	2:C:393:GLN:O	2.20	0.41
2:C:578:VAL:HG13	2:C:671:ASN:HB3	2.02	0.41
2:C:745:ILE:HD12	2:C:745:ILE:N	2.36	0.41
2:C:756:VAL:O	2:C:789:SER:HB3	2.19	0.41
2:C:973:VAL:HG12	2:C:974:LEU:N	2.35	0.41
3:D:395:VAL:HG22	3:D:396:VAL:N	2.35	0.41
3:D:813:LEU:CD1	3:D:814:ALA:HB2	2.50	0.41
3:D:817:GLU:O	3:D:817:GLU:HG2	2.20	0.41
3:D:844:ALA:HB1	3:D:867:ARG:CZ	2.48	0.41
3:D:937:TYR:O	3:D:941:PHE:HD1	2.04	0.41
3:D:941:PHE:C	3:D:943:THR:H	2.23	0.41
2:H:97:ARG:HG2	2:H:110:GLU:OE2	2.20	0.41
2:H:184:MET:HE2	2:H:303:PHE:HE2	1.85	0.41
2:H:497:ALA:HA	2:H:515:ALA:HB2	2.01	0.41
2:H:711:GLU:OE1	2:H:822:VAL:HG12	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:1068:GLU:HG2	2:H:1072:LYS:HD2	2.00	0.41
2:H:1087:VAL:HG23	3:I:524:LEU:HD21	2.02	0.41
2:H:1111:ILE:HG13	2:H:1112:PHE:N	2.35	0.41
3:I:481:MET:HG2	3:I:1388:ARG:HH21	1.79	0.41
3:I:1045:MET:N	3:I:1045:MET:SD	2.93	0.41
3:I:1353:GLN:HA	3:I:1353:GLN:OE1	2.20	0.41
1:K:64:GLU:HG3	1:K:75:VAL:HG12	2.03	0.41
1:K:158:ILE:O	1:K:159:LYS:HD3	2.20	0.41
2:M:149:THR:CG2	2:M:159:ILE:HD11	2.50	0.41
2:M:159:ILE:HG22	2:M:175:GLU:HA	2.02	0.41
2:M:165:LEU:HD12	2:M:165:LEU:HA	1.76	0.41
2:M:193:LEU:H	2:M:193:LEU:CD1	2.32	0.41
2:M:456:ALA:HB3	2:M:459:ALA:CB	2.49	0.41
2:M:606:VAL:HG22	2:M:645:VAL:HG13	2.02	0.41
2:M:685:GLU:HB3	3:N:740:PHE:HD1	1.85	0.41
2:M:871:LEU:HD13	2:M:872:ASN:O	2.20	0.41
2:M:1019:GLN:CG	3:N:621:LYS:HD2	2.49	0.41
3:N:165:LYS:HD3	3:N:167:GLU:HG3	2.01	0.41
3:N:520:LEU:HG	3:N:524:LEU:HD23	2.02	0.41
3:N:687:VAL:O	3:N:690:ALA:HB3	2.20	0.41
3:N:991:GLN:NE2	3:N:991:GLN:CA	2.83	0.41
3:N:1047:LYS:NZ	3:N:1053:PHE:HA	2.35	0.41
3:N:1410:GLU:HB2	3:N:1411:GLY:H	1.69	0.41
5:X:55:MET:HB3	5:X:59:GLU:OE1	2.20	0.41
5:Y:43:ARG:O	5:Y:45:ASN:OD1	2.38	0.41
5:Y:68:ILE:O	5:Y:72:ALA:HB2	2.20	0.41
5:Y:102:VAL:HG13	5:Y:119:ILE:HD11	2.02	0.41
5:Z:20:GLU:O	5:Z:23:ARG:HB2	2.21	0.41
1:A:55:SER:HB3	1:A:158:ILE:CG2	2.51	0.41
1:A:73:GLU:HB3	1:A:77:GLU:CG	2.51	0.41
1:B:52:ALA:HB3	1:B:171:PHE:CE1	2.55	0.41
1:B:125:PRO:C	1:B:127:LEU:H	2.24	0.41
1:B:212:ASN:O	1:B:215:VAL:CG2	2.69	0.41
2:C:26:TYR:CE2	2:C:30:LEU:HD21	2.55	0.41
2:C:437:ARG:HH22	2:C:488:ALA:HA	1.85	0.41
2:C:799:ILE:HG23	2:C:799:ILE:O	2.21	0.41
2:C:877:PRO:O	2:C:878:SER:C	2.56	0.41
2:C:884:GLN:HB2	2:C:992:MET:HE3	2.01	0.41
2:C:1014:SER:N	2:C:1019:GLN:O	2.54	0.41
3:D:6:ARG:HG3	3:D:7:LYS:HD3	2.01	0.41
3:D:160:GLU:O	3:D:164:GLY:C	2.58	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:181:ASP:OD2	3:D:441:ARG:HD3	2.20	0.41
3:D:367:ILE:HG22	3:D:368:VAL:HG23	2.02	0.41
3:D:483:HIS:CB	3:D:484:PRO:CD	2.94	0.41
3:D:860:LEU:HD23	3:D:877:PRO:HB2	2.02	0.41
3:D:1208:ASP:O	3:D:1209:LEU:HB2	2.21	0.41
3:D:1272:ALA:HA	3:D:1326:THR:HB	2.01	0.41
4:E:52:GLU:OE1	4:E:52:GLU:N	2.53	0.41
1:F:45:LEU:N	1:F:45:LEU:CD1	2.84	0.41
1:F:73:GLU:HB2	1:F:78:ILE:HD13	2.02	0.41
1:F:109:VAL:HB	1:F:130:ALA:CA	2.51	0.41
2:H:30:LEU:HD12	2:H:30:LEU:O	2.20	0.41
2:H:31:GLN:O	2:H:31:GLN:NE2	2.53	0.41
2:H:164:PRO:HB3	2:H:265:ARG:H	1.85	0.41
2:H:384:GLU:CD	2:H:388:ARG:HD2	2.40	0.41
2:H:424:GLY:C	2:H:426:ASP:H	2.22	0.41
2:H:471:TYR:C	2:H:483:VAL:HG13	2.40	0.41
2:H:479:VAL:HG22	2:H:506:ASN:CA	2.50	0.41
2:H:588:VAL:HG21	2:H:664:GLY:O	2.21	0.41
2:H:610:ARG:HB2	2:H:622:GLU:CD	2.41	0.41
2:H:914:ILE:H	2:H:914:ILE:HD12	1.86	0.41
2:H:950:LEU:HD21	3:I:1017:PHE:HD1	1.83	0.41
3:I:28:LYS:CG	3:I:30:GLU:HG2	2.50	0.41
3:I:1071:PHE:HD1	3:I:1072:ILE:HD13	1.84	0.41
3:I:1379:VAL:HB	3:I:1418:LYS:O	2.21	0.41
1:K:77:GLU:O	1:K:81:ASN:ND2	2.53	0.41
1:L:41:ARG:HG3	1:L:177:VAL:CG2	2.49	0.41
2:M:66:LEU:HB2	2:M:100:LEU:HD23	2.02	0.41
2:M:144:PRO:HB3	2:M:164:PRO:HA	2.03	0.41
2:M:264:PRO:HB3	2:M:289:THR:HB	2.01	0.41
2:M:383:ARG:HH11	2:M:383:ARG:CB	2.25	0.41
2:M:487:THR:HB	2:M:490:GLU:HG3	2.02	0.41
2:M:567:GLN:O	2:M:997:LEU:HA	2.21	0.41
2:M:855:VAL:O	2:M:855:VAL:HG22	2.19	0.41
3:N:20:SER:C	3:N:22:SER:H	2.23	0.41
3:N:171:LEU:HD23	3:N:172:PRO:O	2.21	0.41
3:N:710:ARG:HB2	3:N:1227:GLN:HE22	1.85	0.41
3:N:796:ARG:HB2	3:N:828:LYS:CE	2.50	0.41
3:N:798:GLU:CG	3:N:828:LYS:HZ2	2.34	0.41
3:N:907:GLU:HG2	3:N:908:LYS:H	1.85	0.41
3:N:972:LEU:HD13	3:N:972:LEU:HA	1.92	0.41
3:N:977:ALA:HB2	5:Z:112:VAL:HG11	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1087:ARG:HH11	3:N:1235:GLN:HA	1.85	0.41
3:N:1144:LEU:CD2	3:N:1186:VAL:HG11	2.51	0.41
3:N:1205:TYR:CD2	3:N:1215:VAL:HG21	2.54	0.41
3:N:1359:GLN:NE2	5:Z:48:TYR:OH	2.47	0.41
3:N:1365:ASP:O	3:N:1366:LYS:C	2.59	0.41
3:N:1496:GLU:HA	3:N:1499:ARG:HE	1.86	0.41
4:O:36:LYS:NZ	4:O:36:LYS:HA	2.35	0.41
5:X:7:LEU:O	5:X:74:ILE:HA	2.20	0.41
5:X:115:THR:HB	5:X:116:PRO:CD	2.51	0.41
5:Y:58:ASN:HD22	5:Y:58:ASN:HA	1.66	0.41
1:A:26:GLU:HB3	1:A:194:LYS:HG3	2.03	0.41
1:B:73:GLU:CD	1:B:130:ALA:HA	2.41	0.41
1:B:75:VAL:O	1:B:79:ILE:HG23	2.21	0.41
1:B:171:PHE:O	1:B:172:SER:C	2.58	0.41
1:B:179:PHE:O	1:B:180:GLN:HG2	2.21	0.41
2:C:252:LYS:HE2	2:C:252:LYS:HB3	1.66	0.41
2:C:275:TYR:C	2:C:277:ALA:N	2.74	0.41
2:C:424:GLY:C	2:C:426:ASP:H	2.24	0.41
3:D:190:GLU:HG2	3:D:196:VAL:HG22	2.03	0.41
3:D:345:TYR:CE2	3:D:377:VAL:HG13	2.56	0.41
3:D:625:TYR:HB3	3:D:749:VAL:HG22	2.02	0.41
3:D:651:GLU:C	3:D:653:PHE:H	2.23	0.41
3:D:799:LYS:HZ2	3:D:826:PRO:CD	2.34	0.41
3:D:841:TYR:HB3	3:D:843:PHE:CE1	2.55	0.41
3:D:881:LEU:O	3:D:882:PHE:C	2.58	0.41
3:D:887:ALA:HB1	3:D:893:GLU:CG	2.50	0.41
3:D:1087:ARG:NH2	3:D:1235:GLN:HE21	2.18	0.41
3:D:1144:LEU:CD2	3:D:1186:VAL:HG11	2.50	0.41
4:E:83:ASP:O	4:E:85:LEU:N	2.54	0.41
1:F:79:ILE:HD12	1:F:83:LYS:HE3	2.02	0.41
1:G:146:ARG:HG3	1:G:146:ARG:HH11	1.85	0.41
2:H:267:TYR:N	2:H:267:TYR:HD2	2.15	0.41
2:H:565:GLN:OE1	2:H:995:MET:HE1	2.19	0.41
2:H:683:ASN:O	2:H:684:PHE:O	2.38	0.41
2:H:1008:ARG:HG3	2:H:1027:PHE:C	2.40	0.41
2:H:1052:MET:CE	2:H:1056:LYS:HD2	2.49	0.41
3:I:511:TRP:O	3:I:512:MET:C	2.59	0.41
3:I:701:LEU:HA	3:I:715:ALA:HA	2.02	0.41
3:I:799:LYS:HD2	3:I:800:LYS:C	2.41	0.41
3:I:908:LYS:N	3:I:1027:GLY:HA3	2.28	0.41
3:I:1122:LEU:HD23	3:I:1122:LEU:O	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:1424:VAL:CG1	3:I:1425:THR:N	2.84	0.41
1:K:67:THR:HG22	2:M:627:ARG:NE	2.34	0.41
1:K:68:ILE:HA	1:K:69:PRO:HD3	1.97	0.41
1:K:91:ASN:HA	1:K:92:PRO:HD3	1.88	0.41
2:M:351:LEU:CD2	2:M:377:PRO:HB2	2.51	0.41
2:M:512:ARG:HD3	2:M:523:ILE:HD11	2.02	0.41
2:M:571:LEU:HD21	2:M:700:TYR:CD2	2.56	0.41
2:M:673:LEU:O	2:M:869:VAL:HG12	2.21	0.41
2:M:673:LEU:C	2:M:673:LEU:HD13	2.41	0.41
2:M:673:LEU:HD22	2:M:674:VAL:H	1.86	0.41
2:M:689:VAL:HG12	2:M:690:ILE:H	1.85	0.41
2:M:1073:GLY:N	3:N:659:LYS:HD3	2.35	0.41
3:N:452:ILE:CG1	3:N:453:ASP:N	2.84	0.41
3:N:457:GLY:O	3:N:460:ALA:HB3	2.21	0.41
3:N:519:VAL:HA	3:N:544:TYR:HH	1.83	0.41
3:N:752:SER:HB3	3:N:755:ALA:HB3	2.01	0.41
3:N:933:ALA:O	3:N:937:TYR:HD1	2.04	0.41
4:O:58:PRO:HB2	4:O:59:ASN:H	1.72	0.41
1:A:11:PHE:O	1:A:11:PHE:CD2	2.74	0.41
1:B:43:ILE:O	1:B:48:ILE:CD1	2.69	0.41
1:B:99:LEU:HD12	1:B:117:VAL:HG21	2.01	0.41
2:C:41:ASN:HB3	2:C:42:VAL:H	1.70	0.41
2:C:48:PHE:O	2:C:50:GLU:N	2.54	0.41
2:C:66:LEU:HD23	2:C:355:VAL:HG21	2.02	0.41
2:C:294:GLU:HG2	2:C:295:ASP:N	2.35	0.41
2:C:424:GLY:C	2:C:426:ASP:N	2.73	0.41
2:C:460:ARG:NH1	2:C:460:ARG:HB2	2.36	0.41
2:C:567:GLN:HA	2:C:567:GLN:NE2	2.35	0.41
2:C:605:LYS:HB2	2:C:612:VAL:CB	2.50	0.41
2:C:750:LYS:CE	2:C:751:PRO:HD3	2.50	0.41
2:C:1020:PRO:HG2	3:D:624:ASP:OD1	2.20	0.41
3:D:142:LEU:HB2	3:D:143:ASN:H	1.66	0.41
3:D:213:VAL:HG12	3:D:214:GLU:N	2.36	0.41
3:D:476:GLU:O	3:D:479:GLU:HB2	2.21	0.41
3:D:654:LYS:CB	3:D:655:PRO:HD3	2.50	0.41
3:D:874:GLU:H	3:D:874:GLU:HG2	1.52	0.41
3:D:1114:THR:HG23	3:D:1114:THR:O	2.19	0.41
3:D:1353:GLN:O	3:D:1354:LYS:C	2.58	0.41
3:D:1369:GLU:O	3:D:1372:VAL:HG13	2.20	0.41
3:D:1401:GLU:O	3:D:1405:GLU:N	2.53	0.41
1:F:102:LYS:HE2	1:F:102:LYS:HB3	1.96	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:122:ILE:HG13	1:G:122:ILE:O	2.20	0.41
1:G:223:THR:C	1:G:225:PHE:H	2.24	0.41
2:H:73:LEU:HD22	2:H:94:LEU:HA	2.02	0.41
2:H:281:LEU:HD12	2:H:306:THR:N	2.35	0.41
2:H:630:ARG:HD3	2:H:705:ILE:HB	2.02	0.41
2:H:673:LEU:HD22	2:H:674:VAL:N	2.34	0.41
2:H:806:LEU:HD23	2:H:806:LEU:HA	1.92	0.41
3:I:41:ARG:CZ	3:I:41:ARG:HB2	2.51	0.41
3:I:162:ARG:HH12	3:I:450:TYR:HB3	1.85	0.41
3:I:389:GLU:H	3:I:389:GLU:HG2	1.76	0.41
3:I:539:ASP:OD2	3:I:539:ASP:N	2.53	0.41
3:I:1026:SER:C	3:I:1028:ALA:N	2.74	0.41
3:I:1041:LEU:HB2	3:I:1059:SER:O	2.20	0.41
3:I:1104:GLU:CD	3:I:1104:GLU:N	2.73	0.41
4:J:48:MET:HG3	4:J:49:GLN:H	1.85	0.41
4:J:66:LYS:HE3	4:J:69:LEU:HD13	2.02	0.41
4:J:75:PHE:N	4:J:75:PHE:CD2	2.89	0.41
1:K:61:VAL:CG1	1:K:62:LEU:N	2.83	0.41
2:M:258:TYR:N	2:M:258:TYR:HD1	2.18	0.41
2:M:274:ARG:HD3	2:M:285:LEU:CB	2.50	0.41
2:M:357:GLU:C	2:M:359:MET:H	2.23	0.41
2:M:537:LYS:NZ	2:M:904:PRO:HB3	2.36	0.41
3:N:30:GLU:OE1	3:N:30:GLU:HA	2.19	0.41
3:N:616:GLN:C	3:N:618:LEU:H	2.23	0.41
3:N:760:ARG:NH1	4:O:61:VAL:CG2	2.84	0.41
3:N:910:SER:HG	3:N:911:LEU:HD12	1.85	0.41
3:N:982:PHE:CZ	5:Z:118:LYS:O	2.73	0.41
3:N:996:TRP:CE2	3:N:1056:PRO:HG2	2.55	0.41
3:N:1003:VAL:CG2	3:N:1004:THR:N	2.81	0.41
3:N:1253:THR:CG2	3:N:1269:LYS:HB3	2.50	0.41
3:N:1295:GLU:HB3	3:N:1300:SER:CB	2.51	0.41
5:X:36:ALA:HA	5:X:39:GLU:HB2	2.02	0.41
2:C:455:LEU:HD12	2:C:456:ALA:N	2.34	0.41
2:C:468:ARG:CB	2:C:485:TYR:HB3	2.50	0.41
2:C:559:LEU:CD2	2:C:560:MET:HE3	2.50	0.41
2:C:576:ALA:HA	2:C:577:PRO:HD3	1.98	0.41
2:C:918:LEU:O	2:C:921:ALA:HB3	2.20	0.41
2:C:1042:ALA:HA	3:D:1220:ALA:HB3	2.03	0.41
3:D:86:ARG:NH1	3:D:86:ARG:HG3	2.36	0.41
3:D:138:LYS:O	3:D:452:ILE:HG21	2.20	0.41
3:D:165:LYS:HG2	3:D:166:GLN:N	2.36	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:400:VAL:HG23	3:D:443:VAL:HG21	2.01	0.41
3:D:593:ASN:HB3	3:D:594:PRO:HD2	2.01	0.41
3:D:654:LYS:HB2	3:D:655:PRO:HD3	2.03	0.41
3:D:827:ILE:HD12	3:D:827:ILE:N	2.35	0.41
3:D:1149:LEU:CD1	3:D:1160:LEU:HD22	2.51	0.41
3:D:1256:LEU:HD13	3:D:1256:LEU:C	2.41	0.41
1:F:38:ASN:HD21	2:H:978:ARG:C	2.24	0.41
1:F:78:ILE:O	1:F:79:ILE:C	2.59	0.41
1:G:205:VAL:HG21	1:G:209:GLU:HB2	2.02	0.41
2:H:291:ALA:O	2:H:292:ARG:CB	2.69	0.41
2:H:313:LEU:HB3	2:H:321:GLU:HG2	2.03	0.41
2:H:495:THR:HB	2:H:530:GLU:HG3	2.02	0.41
2:H:495:THR:HG23	2:H:517:ARG:HA	2.03	0.41
2:H:557:ARG:HG2	2:H:881:ASN:OD1	2.21	0.41
2:H:606:VAL:HG11	2:H:643:VAL:O	2.20	0.41
2:H:673:LEU:HD22	2:H:990:GLY:O	2.21	0.41
2:H:918:LEU:O	2:H:921:ALA:HB3	2.20	0.41
3:I:749:VAL:HA	3:I:750:PRO:HD3	1.91	0.41
3:I:777:PRO:O	3:I:778:LEU:HD23	2.20	0.41
3:I:790:TYR:C	3:I:792:ILE:N	2.74	0.41
3:I:983:LEU:HD21	5:Y:112:VAL:CG2	2.51	0.41
3:I:1330:ILE:HG22	3:I:1331:ASP:N	2.35	0.41
4:J:8:LYS:O	4:J:12:MET:HG3	2.21	0.41
4:J:33:HIS:CD2	4:J:89:MET:HG2	2.56	0.41
1:K:133:GLU:HB3	1:K:134:GLU:H	1.69	0.41
1:K:165:ILE:N	1:K:165:ILE:CD1	2.82	0.41
2:M:350:ARG:O	2:M:353:ARG:HB3	2.21	0.41
2:M:473:ARG:HA	2:M:531:PHE:HD1	1.86	0.41
2:M:474:VAL:HG12	2:M:531:PHE:HA	2.02	0.41
2:M:537:LYS:CE	2:M:905:ILE:HD13	2.36	0.41
2:M:545:ASN:HB3	2:M:583:LEU:CD2	2.50	0.41
3:N:36:THR:C	3:N:38:LYS:N	2.73	0.41
3:N:160:GLU:HG2	3:N:161:LEU:N	2.36	0.41
3:N:769:LEU:HG	3:N:924:MET:HE1	2.02	0.41
3:N:880:ILE:HG23	3:N:881:LEU:N	2.35	0.41
3:N:1099:VAL:C	3:N:1101:VAL:H	2.23	0.41
3:N:1118:ILE:HD12	3:N:1118:ILE:N	2.36	0.41
3:N:1209:LEU:HD12	3:N:1219:GLU:OE2	2.21	0.41
3:N:1468:LEU:N	3:N:1468:LEU:CD2	2.84	0.41
4:O:33:HIS:HD1	4:O:90:GLU:HG3	1.86	0.41
5:X:128:ALA:O	5:X:138:LEU:HD11	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Y:44:GLU:H	5:Y:44:GLU:HG3	1.58	0.41
5:Y:89:VAL:HG11	5:Y:129:LEU:CD2	2.51	0.41
1:A:55:SER:CB	1:A:158:ILE:CG2	2.99	0.41
1:A:61:VAL:CG1	1:A:62:LEU:N	2.83	0.41
1:B:175:ARG:N	1:B:200:TRP:O	2.54	0.41
2:C:30:LEU:O	2:C:30:LEU:HD12	2.21	0.41
2:C:127:PHE:CD2	2:C:386:PHE:HE2	2.39	0.41
2:C:218:VAL:C	2:C:220:GLY:N	2.74	0.41
2:C:258:TYR:CD2	2:C:264:PRO:HG3	2.56	0.41
2:C:275:TYR:C	2:C:277:ALA:H	2.23	0.41
2:C:334:ARG:HH11	2:C:418:LEU:CD2	2.34	0.41
2:C:553:ASP:HA	2:C:881:ASN:HA	2.03	0.41
2:C:580:MET:O	2:C:902:ILE:HG23	2.20	0.41
2:C:677:MET:CE	2:C:983:ILE:HD13	2.51	0.41
2:C:678:PRO:HB2	3:D:942:SER:O	2.21	0.41
2:C:683:ASN:ND2	2:C:870:ILE:HG22	2.35	0.41
2:C:858:MET:CE	2:C:859:PRO:HD2	2.51	0.41
2:C:922:PHE:HB2	2:C:967:PHE:HD2	1.85	0.41
2:C:1045:ALA:HB1	2:C:1048:THR:HB	2.03	0.41
3:D:186:VAL:HG23	3:D:189:GLN:OE1	2.21	0.41
3:D:207:PHE:CE2	2:H:283:ILE:HB	2.55	0.41
3:D:548:ILE:HD13	3:D:548:ILE:N	2.36	0.41
3:D:762:GLN:NE2	4:E:20:THR:OG1	2.51	0.41
3:D:869:MET:HE2	3:D:897:TRP:HE1	1.85	0.41
3:D:1098:LEU:CD2	3:D:1226:ALA:HA	2.50	0.41
3:D:1107:VAL:O	3:D:1108:ARG:HB3	2.21	0.41
3:D:1194:CYS:SG	3:D:1196:THR:HB	2.61	0.41
3:D:1301:LYS:HD3	3:D:1302:GLU:N	2.35	0.41
3:D:1424:VAL:O	3:D:1427:SER:HB3	2.21	0.41
1:G:80:LEU:HD12	3:I:844:ALA:HA	2.02	0.41
1:G:209:GLU:O	1:G:213:GLN:NE2	2.54	0.41
2:H:35:PRO:C	2:H:37:GLU:H	2.25	0.41
2:H:198:ARG:HH12	2:H:231:PRO:HG3	1.85	0.41
2:H:343:GLN:O	2:H:346:VAL:HB	2.21	0.41
2:H:352:ALA:HA	2:H:355:VAL:HG12	2.03	0.41
2:H:442:GLU:CD	2:H:541:SER:HB3	2.40	0.41
2:H:474:VAL:CG1	2:H:529:VAL:HG12	2.43	0.41
2:H:555:ALA:HB2	3:I:1070:TYR:HE2	1.86	0.41
2:H:630:ARG:HG3	2:H:630:ARG:HH11	1.85	0.41
2:H:682:TYR:CD1	3:I:635:PRO:HG2	2.56	0.41
2:H:684:PHE:CZ	3:I:730:PRO:HB2	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:690:ILE:HG23	2:H:852:ILE:HA	2.03	0.41
2:H:943:VAL:HG11	2:H:973:VAL:HG22	2.03	0.41
2:H:994:ILE:N	2:H:994:ILE:CD1	2.77	0.41
2:H:1086:ARG:HD2	3:I:88:TYR:CE1	2.56	0.41
2:H:1103:ASP:CG	2:H:1104:GLU:H	2.24	0.41
3:I:20:SER:C	3:I:22:SER:H	2.24	0.41
3:I:28:LYS:CB	3:I:41:ARG:NH2	2.84	0.41
3:I:177:ALA:O	3:I:178:LEU:HD23	2.20	0.41
3:I:191:LEU:HD22	3:I:393:ILE:CD1	2.50	0.41
3:I:700:VAL:CG1	3:I:718:PRO:HG2	2.49	0.41
3:I:841:TYR:O	3:I:864:VAL:HG12	2.21	0.41
3:I:875:THR:HG22	3:I:876:SER:H	1.84	0.41
3:I:1065:LEU:HD11	3:I:1069:GLU:CB	2.51	0.41
3:I:1101:VAL:HG12	3:I:1428:ALA:HB2	2.02	0.41
3:I:1282:ARG:C	3:I:1283:ILE:HD13	2.41	0.41
3:I:1485:GLN:HG3	4:J:79:LEU:N	2.20	0.41
4:J:6:ILE:HD11	4:J:10:PHE:CZ	2.56	0.41
1:K:122:ILE:CG2	1:K:124:ASN:H	2.34	0.41
1:L:99:LEU:HD21	1:L:115:LEU:O	2.20	0.41
1:L:106:PRO:HA	1:L:132:LEU:O	2.21	0.41
1:L:107:LYS:HB2	1:L:107:LYS:NZ	2.35	0.41
2:M:208:ALA:CB	2:M:222:MET:HG3	2.30	0.41
2:M:281:LEU:HD12	2:M:306:THR:N	2.36	0.41
2:M:313:LEU:HD13	2:M:321:GLU:N	2.34	0.41
2:M:424:GLY:C	2:M:426:ASP:H	2.23	0.41
2:M:451:LEU:O	2:M:451:LEU:HD13	2.21	0.41
2:M:461:VAL:HG12	2:M:462:ASP:O	2.21	0.41
2:M:503:LEU:HD21	2:M:506:ASN:CA	2.51	0.41
2:M:549:PHE:H	2:M:843:HIS:HE1	1.69	0.41
2:M:600:ASP:CG	2:M:650:ARG:HA	2.41	0.41
2:M:603:VAL:O	2:M:646:GLY:HA2	2.21	0.41
2:M:673:LEU:HD22	2:M:990:GLY:O	2.20	0.41
2:M:835:VAL:C	2:M:837:ASP:H	2.24	0.41
2:M:1087:VAL:HG23	3:N:524:LEU:HD21	2.03	0.41
3:N:7:LYS:HB3	3:N:7:LYS:HE2	1.85	0.41
3:N:12:LEU:HD21	3:N:1452:ILE:O	2.21	0.41
3:N:95:LEU:CD2	3:N:574:LEU:HD21	2.42	0.41
3:N:160:GLU:C	3:N:162:ARG:H	2.24	0.41
3:N:165:LYS:HE2	3:N:396:VAL:HA	2.03	0.41
3:N:214:GLU:HB2	3:N:384:VAL:HB	2.03	0.41
3:N:409:VAL:HG23	3:N:421:LEU:O	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:470:LEU:HB2	3:N:503:LEU:HD21	2.02	0.41
3:N:639:LEU:HD21	3:N:766:ALA:CB	2.50	0.41
3:N:680:GLN:C	3:N:682:ASP:H	2.24	0.41
3:N:703:ASN:CG	3:N:713:ILE:HG12	2.41	0.41
3:N:711:LEU:C	3:N:713:ILE:H	2.24	0.41
3:N:771:SER:CB	3:N:778:LEU:HD11	2.42	0.41
3:N:800:LYS:CE	3:N:803:GLY:HA2	2.51	0.41
3:N:811:GLU:HG2	3:N:815:ALA:CB	2.51	0.41
3:N:892:ASP:OD2	3:N:894:LYS:HB2	2.20	0.41
3:N:907:GLU:CD	3:N:908:LYS:HG3	2.41	0.41
3:N:1225:ALA:O	3:N:1229:ILE:HG13	2.21	0.41
5:Z:29:ILE:CG2	5:Z:55:MET:HG2	2.48	0.41
5:Z:68:ILE:O	5:Z:69:LEU:C	2.60	0.41
5:Z:90:GLU:HA	5:Z:100:LEU:O	2.21	0.41
5:Z:155:HIS:O	5:Z:156:GLY:C	2.58	0.41
1:A:38:ASN:HB2	2:C:980:GLY:HA3	2.03	0.41
1:A:124:ASN:HD21	1:A:127:LEU:HB2	1.86	0.41
1:A:159:LYS:HD3	1:A:159:LYS:HA	1.87	0.41
1:A:206:THR:HG23	1:A:208:LEU:N	2.36	0.41
1:A:225:PHE:HA	1:B:11:PHE:CG	2.56	0.41
1:B:85:LEU:HB2	1:B:127:LEU:HD13	2.03	0.41
1:B:156:HIS:CG	1:B:157:GLY:N	2.88	0.41
2:C:164:PRO:HB3	2:C:265:ARG:HB2	2.03	0.41
2:C:338:GLU:O	2:C:341:THR:HG22	2.21	0.41
2:C:341:THR:O	2:C:344:PHE:HB3	2.21	0.41
2:C:623:TYR:HA	2:C:624:PRO:HD3	1.88	0.41
2:C:678:PRO:HD3	2:C:873:PRO:CD	2.51	0.41
2:C:731:GLU:C	2:C:733:ALA:H	2.24	0.41
2:C:870:ILE:HD12	2:C:870:ILE:N	2.36	0.41
3:D:6:ARG:O	3:D:6:ARG:HG3	2.21	0.41
3:D:115:LEU:O	3:D:115:LEU:HD23	2.20	0.41
3:D:153:LEU:HD11	3:D:158:TYR:HB2	2.03	0.41
3:D:169:TYR:OH	3:D:198:ARG:HB2	2.20	0.41
3:D:553:ARG:HD2	3:D:557:LEU:CD1	2.50	0.41
3:D:601:ARG:HG3	3:D:605:ASP:HB2	2.03	0.41
3:D:650:LEU:HD22	3:D:688:TRP:CZ3	2.56	0.41
3:D:829:VAL:O	3:D:835:SER:HB2	2.21	0.41
3:D:1425:THR:C	3:D:1429:LEU:HD13	2.40	0.41
1:F:57:TYR:CZ	1:F:161:ARG:HD2	2.56	0.41
1:G:186:LEU:O	1:G:186:LEU:CG	2.69	0.41
2:H:198:ARG:NH2	2:H:203:ASP:OD2	2.54	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:211:LEU:HD21	2:H:221:LEU:HD21	2.03	0.41
2:H:793:PRO:O	2:H:794:PRO:O	2.39	0.41
2:H:802:ARG:C	2:H:803:THR:HG23	2.40	0.41
2:H:1031:ARG:HG2	2:H:1032:PHE:H	1.85	0.41
3:I:355:VAL:HG23	3:I:356:PRO:HD2	2.02	0.41
3:I:761:ILE:HA	3:I:761:ILE:HD13	1.86	0.41
3:I:761:ILE:HG21	4:J:20:THR:HG23	2.03	0.41
3:I:912:LYS:HG2	3:I:913:ASP:N	2.36	0.41
3:I:1139:ASP:OD1	3:I:1357:ARG:CZ	2.69	0.41
4:J:54:LEU:HD23	4:J:54:LEU:O	2.20	0.41
1:K:176:ARG:HD3	2:M:864:GLY:HA3	2.02	0.41
1:L:66:SER:O	1:L:75:VAL:HG23	2.20	0.41
1:L:86:VAL:O	1:L:123:MET:SD	2.79	0.41
1:L:215:VAL:CG2	1:L:216:GLU:N	2.84	0.41
2:M:97:ARG:HG3	2:M:110:GLU:OE2	2.21	0.41
2:M:134:ARG:NH2	2:M:393:GLN:HA	2.30	0.41
2:M:374:ASN:HD22	2:M:374:ASN:H	1.63	0.41
2:M:376:ARG:HB3	2:M:377:PRO:CD	2.49	0.41
2:M:623:TYR:HA	2:M:624:PRO:HD3	1.84	0.41
2:M:683:ASN:C	2:M:687:ALA:HB3	2.42	0.41
2:M:693:GLU:HB2	2:M:855:VAL:HB	2.02	0.41
2:M:950:LEU:HD22	2:M:950:LEU:HA	1.95	0.41
2:M:1019:GLN:CD	3:N:621:LYS:HD2	2.42	0.41
2:M:1082:PRO:O	2:M:1083:GLU:C	2.60	0.41
3:N:150:ARG:HH12	3:N:468:LEU:CD1	2.26	0.41
3:N:181:ASP:OD1	3:N:441:ARG:HD3	2.20	0.41
3:N:215:TYR:CD2	3:N:381:ALA:O	2.74	0.41
3:N:851:LEU:O	3:N:855:HIS:HB2	2.21	0.41
3:N:918:ALA:O	3:N:921:ARG:N	2.54	0.41
3:N:1137:ARG:O	3:N:1141:GLU:HG3	2.21	0.41
3:N:1274:ILE:HG22	3:N:1323:GLN:O	2.21	0.41
5:Z:17:GLN:HA	5:Z:20:GLU:OE1	2.21	0.41
2:C:2:GLU:HB2	2:C:899:GLN:HB3	2.03	0.40
2:C:139:GLN:HG2	2:C:140:ILE:N	2.36	0.40
2:C:337:GLY:O	2:C:341:THR:HG22	2.21	0.40
2:C:593:ALA:HB1	2:C:659:PRO:HD2	2.02	0.40
2:C:726:ILE:HG22	2:C:728:HIS:H	1.85	0.40
2:C:979:THR:HG23	2:C:981:GLU:HB2	2.03	0.40
3:D:112:ILE:CG2	3:D:113:GLY:N	2.83	0.40
3:D:433:GLY:CA	3:D:449:SER:H	2.34	0.40
3:D:732:VAL:HB	3:D:736:PHE:CE1	2.56	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1020:LEU:O	3:D:1023:MET:HB2	2.21	0.40
3:D:1093:TYR:HA	3:D:1096:ARG:NH1	2.36	0.40
3:D:1236:LEU:O	3:D:1256:LEU:HB2	2.22	0.40
3:D:1377:LYS:HZ3	3:D:1394:VAL:CG1	2.34	0.40
1:G:43:ILE:O	1:G:45:LEU:N	2.54	0.40
1:G:165:ILE:N	1:G:165:ILE:CD1	2.84	0.40
2:H:160:ALA:HB3	2:H:174:LEU:HD12	2.02	0.40
2:H:239:PHE:C	2:H:241:LEU:N	2.75	0.40
2:H:285:LEU:HD23	2:H:285:LEU:O	2.20	0.40
3:I:12:LEU:HD23	3:I:104:PHE:CE1	2.56	0.40
3:I:122:GLU:OE1	3:I:126:VAL:HG21	2.21	0.40
3:I:378:ILE:HG22	3:I:379:ALA:N	2.36	0.40
3:I:1188:VAL:CG2	3:I:1189:ARG:N	2.84	0.40
3:I:1213:ARG:CB	3:I:1214:PRO:CD	3.00	0.40
3:I:1390:LEU:C	3:I:1391:GLU:HG3	2.41	0.40
1:K:171:PHE:O	1:K:172:SER:C	2.59	0.40
1:L:54:THR:HG22	1:L:158:ILE:HB	2.03	0.40
1:L:56:VAL:HG22	1:L:142:VAL:HG12	2.01	0.40
1:L:171:PHE:O	1:L:172:SER:C	2.59	0.40
2:M:12:VAL:CG1	2:M:534:VAL:HG13	2.51	0.40
2:M:163:ILE:HD13	2:M:171:TRP:CD2	2.56	0.40
2:M:196:LEU:HD23	2:M:196:LEU:C	2.41	0.40
2:M:690:ILE:CD1	2:M:694:LEU:HD13	2.50	0.40
2:M:695:LEU:O	2:M:695:LEU:HG	2.20	0.40
2:M:1103:ASP:N	2:M:1107:ASN:O	2.52	0.40
3:N:133:ILE:CG2	3:N:454:ALA:HB1	2.51	0.40
3:N:133:ILE:HG22	3:N:454:ALA:HB1	2.02	0.40
3:N:160:GLU:C	3:N:162:ARG:N	2.74	0.40
3:N:170:PRO:HA	3:N:392:SER:CB	2.49	0.40
3:N:180:LYS:HB3	3:N:180:LYS:HE3	1.95	0.40
3:N:417:PRO:HG3	3:N:431:VAL:CA	2.51	0.40
3:N:618:LEU:HD11	3:N:1463:LYS:HZ2	1.85	0.40
3:N:1103:HIS:ND1	3:N:1104:GLU:HG3	2.36	0.40
3:N:1350:GLU:OE2	3:N:1357:ARG:NH1	2.53	0.40
4:O:33:HIS:CD2	4:O:89:MET:HG2	2.56	0.40
5:Y:103:GLN:N	5:Y:117:MET:O	2.44	0.40
5:Z:57:GLN:O	5:Z:61:ARG:HD3	2.21	0.40
1:A:67:THR:HG22	1:A:74:ASP:CB	2.51	0.40
1:A:68:ILE:O	1:A:71:VAL:HB	2.21	0.40
1:A:134:GLU:OE2	1:A:134:GLU:HA	2.21	0.40
1:B:106:PRO:CG	1:B:134:GLU:CD	2.88	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:174:VAL:HA	1:B:200:TRP:O	2.22	0.40
2:C:269:LEU:HG	2:C:285:LEU:CD2	2.51	0.40
2:C:508:ILE:CG2	2:C:509:ALA:N	2.85	0.40
2:C:525:SER:O	2:C:527:GLU:N	2.55	0.40
2:C:838:LYS:HE2	3:D:742:GLY:HA3	2.03	0.40
2:C:947:ALA:HB1	2:C:953:VAL:HG23	2.03	0.40
2:C:964:LYS:O	2:C:968:LEU:HG	2.21	0.40
2:C:1006:HIS:HB2	3:D:628:ARG:CZ	2.52	0.40
3:D:122:GLU:O	3:D:123:LEU:C	2.58	0.40
3:D:172:PRO:HG2	3:D:175:VAL:CB	2.43	0.40
3:D:199:LEU:HD22	3:D:397:LYS:HE3	2.03	0.40
3:D:700:VAL:CG1	3:D:718:PRO:HG2	2.50	0.40
3:D:799:LYS:HZ3	3:D:801:GLY:CA	2.34	0.40
3:D:800:LYS:NZ	3:D:804:LEU:HD11	2.36	0.40
3:D:1015:TYR:N	3:D:1016:PRO:HD3	2.36	0.40
3:D:1151:ARG:H	3:D:1151:ARG:HG2	1.63	0.40
3:D:1404:ASN:ND2	3:D:1408:ILE:HD12	2.36	0.40
1:G:100:LEU:HG	1:G:115:LEU:HD11	2.02	0.40
2:H:249:LYS:C	2:H:251:ASP:H	2.24	0.40
2:H:499:ALA:HA	2:H:532:MET:SD	2.61	0.40
2:H:551:GLU:HB3	2:H:906:PHE:CD2	2.55	0.40
2:H:580:MET:SD	2:H:584:GLU:HG3	2.61	0.40
2:H:720:GLU:CD	2:H:758:ARG:HD2	2.41	0.40
2:H:928:LYS:NZ	2:H:932:GLU:HG2	2.35	0.40
2:H:976:ASP:OD2	2:H:978:ARG:CB	2.66	0.40
3:I:171:LEU:HD12	3:I:392:SER:CA	2.52	0.40
3:I:177:ALA:HB1	3:I:191:LEU:O	2.21	0.40
3:I:452:ILE:CG1	3:I:453:ASP:N	2.76	0.40
3:I:729:HIS:ND1	3:I:730:PRO:HD2	2.36	0.40
3:I:1144:LEU:O	3:I:1145:TYR:C	2.58	0.40
1:K:28:LEU:HB2	1:K:193:ASP:HB2	2.02	0.40
1:K:101:LEU:O	1:K:102:LYS:HG3	2.21	0.40
1:L:217:ILE:O	1:L:220:GLU:HB3	2.20	0.40
2:M:98:LEU:C	2:M:110:GLU:HG2	2.42	0.40
2:M:333:ILE:HG13	2:M:334:ARG:N	2.36	0.40
2:M:428:ARG:NH1	2:M:451:LEU:HB2	2.36	0.40
2:M:1018:GLN:CD	2:M:1060:ILE:HD13	2.41	0.40
3:N:28:LYS:CD	3:N:29:PRO:HD2	2.51	0.40
3:N:44:LEU:O	3:N:44:LEU:CD2	2.68	0.40
3:N:180:LYS:HB2	3:N:183:GLU:HB2	2.03	0.40
3:N:417:PRO:HG3	3:N:431:VAL:HA	2.04	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:785:ILE:HG23	3:N:786:ILE:H	1.84	0.40
3:N:849:ALA:O	3:N:850:LEU:C	2.59	0.40
3:N:869:MET:HE2	3:N:897:TRP:CD1	2.56	0.40
3:N:889:ALA:CB	3:N:930:LEU:HA	2.51	0.40
3:N:925:GLU:N	3:N:925:GLU:OE1	2.54	0.40
3:N:976:GLN:O	3:N:980:MET:HG2	2.22	0.40
3:N:1108:ARG:NH2	3:N:1198:TYR:HB3	2.36	0.40
3:N:1198:TYR:OH	3:N:1432:LYS:NZ	2.53	0.40
3:N:1219:GLU:HA	4:O:17:TYR:OH	2.21	0.40
3:N:1368:ILE:H	3:N:1368:ILE:CD1	2.28	0.40
5:Y:112:VAL:HG13	5:Y:117:MET:SD	2.61	0.40
5:Z:28:GLU:O	5:Z:31:ALA:HB3	2.21	0.40
5:Z:99:ARG:HH11	5:Z:99:ARG:CG	2.33	0.40
1:A:51:THR:HG22	1:A:89:PHE:CE2	2.56	0.40
1:B:77:GLU:HB2	3:D:872:ARG:HH21	1.86	0.40
1:B:180:GLN:HB2	1:B:196:THR:HG1	1.87	0.40
2:C:35:PRO:C	2:C:37:GLU:H	2.25	0.40
2:C:365:ASP:OD1	2:C:365:ASP:N	2.54	0.40
2:C:575:GLN:NE2	2:C:670:GLN:HB3	2.36	0.40
2:C:809:GLY:O	2:C:811:PRO:HD3	2.21	0.40
2:C:974:LEU:HD22	2:C:987:ILE:HB	2.02	0.40
3:D:26:VAL:O	3:D:93:ILE:CD1	2.69	0.40
3:D:167:GLU:CD	2:H:214:TYR:HB3	2.41	0.40
3:D:687:VAL:O	3:D:690:ALA:HB3	2.21	0.40
3:D:712:GLY:O	3:D:713:ILE:HG13	2.22	0.40
3:D:907:GLU:O	3:D:910:SER:N	2.54	0.40
3:D:1232:PRO:HB2	3:D:1356:TYR:CE2	2.57	0.40
3:D:1392:GLY:C	3:D:1393:GLN:NE2	2.75	0.40
1:F:38:ASN:O	1:F:42:ARG:HG3	2.21	0.40
1:F:38:ASN:HB2	2:H:980:GLY:HA3	2.02	0.40
1:F:40:LEU:O	1:F:44:LEU:HG	2.21	0.40
2:H:21:ILE:O	2:H:25:SER:HB2	2.22	0.40
2:H:227:PHE:C	2:H:229:MET:N	2.75	0.40
2:H:274:ARG:NE	2:H:285:LEU:HB3	2.36	0.40
2:H:394:PHE:CE2	2:H:632:ASN:HB3	2.56	0.40
2:H:395:LYS:CE	2:H:407:LYS:HE2	2.50	0.40
2:H:431:HIS:HB3	2:H:434:HIS:CD2	2.55	0.40
2:H:443:THR:HG1	2:H:450:GLY:H	1.66	0.40
2:H:516:ARG:O	2:H:516:ARG:CG	2.65	0.40
2:H:896:PHE:CE2	2:H:925:TYR:HB2	2.57	0.40
2:H:1070:ILE:HD12	3:I:656:PHE:CE1	2.57	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:4:GLU:OE1	3:I:1470:ARG:NH1	2.54	0.40
3:I:400:VAL:CG2	3:I:443:VAL:HG21	2.47	0.40
3:I:637:LEU:HD11	3:I:641:GLN:C	2.42	0.40
3:I:786:ILE:O	3:I:787:LEU:C	2.60	0.40
3:I:804:LEU:HD11	3:I:832:ARG:H	1.85	0.40
3:I:988:ARG:HG3	3:I:988:ARG:HH11	1.86	0.40
3:I:1049:SER:OG	3:I:1050:GLY:N	2.54	0.40
3:I:1105:ILE:O	3:I:1105:ILE:HG22	2.22	0.40
3:I:1106:VAL:HG13	3:I:1219:GLU:C	2.42	0.40
3:I:1472:ILE:CD1	3:I:1472:ILE:H	2.34	0.40
3:I:1481:VAL:O	3:I:1482:ARG:C	2.60	0.40
4:J:47:LYS:CE	4:J:55:PHE:HE2	2.35	0.40
1:K:9:PRO:HA	1:K:26:GLU:O	2.21	0.40
1:K:112:ARG:HH21	1:K:125:PRO:HB3	1.85	0.40
2:M:1:MET:SD	2:M:900:ARG:CZ	3.10	0.40
2:M:12:VAL:CG1	2:M:13:ILE:N	2.81	0.40
2:M:367:LEU:CD1	2:M:371:LYS:HG2	2.44	0.40
2:M:430:VAL:HG13	2:M:430:VAL:O	2.20	0.40
2:M:430:VAL:CG1	3:N:1075:HIS:HA	2.51	0.40
2:M:439:CYS:HB2	2:M:541:SER:H	1.86	0.40
2:M:588:VAL:HG21	2:M:664:GLY:O	2.21	0.40
2:M:825:VAL:HG12	2:M:827:VAL:HG23	2.02	0.40
3:N:51:GLY:CA	3:N:86:ARG:HG3	2.45	0.40
3:N:508:ARG:HD3	3:N:510:GLU:OE2	2.21	0.40
3:N:879:ARG:NH1	3:N:905:PRO:HA	2.33	0.40
3:N:1133:ARG:HG2	3:N:1133:ARG:HH11	1.85	0.40
3:N:1364:HIS:ND1	3:N:1365:ASP:N	2.69	0.40
3:N:1397:LYS:HA	3:N:1400:VAL:HG23	2.04	0.40
4:O:51:LEU:C	4:O:53:GLY:N	2.73	0.40
5:Y:132:HIS:CD2	5:Y:138:LEU:HD22	2.56	0.40
5:Z:46:ALA:O	5:Z:50:GLU:HG3	2.21	0.40
1:A:169:ALA:HB1	1:A:171:PHE:CE2	2.56	0.40
1:B:85:LEU:CD1	1:B:124:ASN:HD22	2.33	0.40
2:C:178:PRO:C	2:C:180:GLY:N	2.73	0.40
2:C:193:LEU:O	2:C:194:VAL:C	2.60	0.40
2:C:243:ARG:HG2	2:C:243:ARG:HH11	1.86	0.40
2:C:359:MET:SD	2:C:359:MET:C	2.99	0.40
2:C:393:GLN:NE2	2:C:406:HIS:HE1	2.19	0.40
2:C:497:ALA:HA	2:C:515:ALA:HA	2.04	0.40
2:C:569:VAL:O	2:C:571:LEU:N	2.55	0.40
2:C:704:HIS:O	2:C:828:ALA:CB	2.69	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:943:VAL:CG1	2:C:944:LEU:H	2.33	0.40
3:D:688:TRP:HA	3:D:688:TRP:CE3	2.57	0.40
3:D:787:LEU:CD2	3:D:942:SER:HB2	2.50	0.40
3:D:989:TYR:OH	3:D:1052:THR:O	2.38	0.40
3:D:1106:VAL:HG21	3:D:1474:ALA:HB2	2.03	0.40
3:D:1123:PHE:HB3	3:D:1133:ARG:O	2.22	0.40
3:D:1152:GLU:OE1	3:D:1161:GLU:HA	2.21	0.40
3:D:1209:LEU:HD13	3:D:1215:VAL:HA	2.03	0.40
3:D:1368:ILE:O	3:D:1372:VAL:HG12	2.21	0.40
2:H:252:LYS:HD2	2:H:255:ALA:CB	2.52	0.40
2:H:260:LEU:HB3	2:H:291:ALA:CB	2.49	0.40
2:H:516:ARG:H	2:H:516:ARG:NH1	2.19	0.40
2:H:544:THR:C	2:H:546:LEU:N	2.75	0.40
2:H:869:VAL:CG2	2:H:870:ILE:N	2.84	0.40
2:H:1004:LYS:HG2	3:I:744:GLN:NE2	2.37	0.40
2:H:1076:VAL:HG21	3:I:752:SER:CA	2.44	0.40
3:I:495:ARG:O	3:I:499:VAL:HG23	2.22	0.40
3:I:650:LEU:HA	3:I:691:LEU:HD21	2.02	0.40
3:I:653:PHE:CE2	3:I:695:ILE:HD13	2.56	0.40
3:I:775:GLY:HA3	3:I:1145:TYR:HE1	1.86	0.40
3:I:877:PRO:HA	3:I:880:ILE:CG2	2.52	0.40
3:I:924:MET:O	3:I:927:THR:HB	2.21	0.40
3:I:1106:VAL:HG22	3:I:1220:ALA:HA	2.04	0.40
3:I:1124:GLN:NE2	3:I:1133:ARG:HD2	2.36	0.40
3:I:1195:GLN:HE21	3:I:1195:GLN:HB2	1.70	0.40
3:I:1236:LEU:HD13	3:I:1256:LEU:HA	2.03	0.40
3:I:1359:GLN:HE22	5:Y:52:ARG:NH2	2.20	0.40
1:K:49:PRO:HB3	1:K:148:VAL:HG22	2.04	0.40
1:K:54:THR:CG2	1:K:158:ILE:HG13	2.38	0.40
1:L:41:ARG:HD3	1:L:179:PHE:CE2	2.56	0.40
1:L:122:ILE:C	1:L:124:ASN:H	2.24	0.40
2:M:45:GLN:HG3	2:M:71:TYR:CE2	2.56	0.40
2:M:141:HIS:CB	2:M:418:LEU:CB	3.00	0.40
2:M:143:SER:O	2:M:276:LYS:HE2	2.21	0.40
2:M:367:LEU:HD22	2:M:371:LYS:CE	2.43	0.40
2:M:397:GLU:C	2:M:399:ASN:N	2.75	0.40
2:M:532:MET:HE3	2:M:533:ASP:O	2.22	0.40
2:M:572:ILE:CD1	2:M:701:THR:HB	2.39	0.40
2:M:651:LYS:HG3	2:M:651:LYS:O	2.21	0.40
2:M:670:GLN:O	2:M:994:ILE:HD12	2.21	0.40
2:M:700:TYR:C	2:M:833:LEU:HD13	2.42	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:705:ILE:HD12	2:M:705:ILE:H	1.84	0.40
2:M:723:THR:C	2:M:725:ASP:H	2.25	0.40
2:M:860:HIS:NE2	2:M:975:TYR:HB2	2.36	0.40
2:M:1019:GLN:HB2	2:M:1021:LEU:CD1	2.51	0.40
2:M:1071:ILE:O	2:M:1071:ILE:HG22	2.22	0.40
3:N:29:PRO:HG3	3:N:549:ASN:ND2	2.36	0.40
3:N:111:LYS:NZ	3:N:1452:ILE:HD11	2.37	0.40
3:N:129:PHE:O	3:N:568:ARG:NH2	2.41	0.40
3:N:702:LEU:HA	3:N:746:ALA:O	2.20	0.40
3:N:728:LEU:HD12	3:N:729:HIS:N	2.35	0.40
3:N:747:VAL:HG13	3:N:747:VAL:O	2.21	0.40
3:N:976:GLN:HE21	3:N:976:GLN:HB2	1.60	0.40
3:N:1061:PHE:HD1	3:N:1061:PHE:HA	1.77	0.40
3:N:1127:GLU:HB2	3:N:1133:ARG:NE	2.29	0.40
3:N:1283:ILE:HD11	3:N:1315:ASP:CB	2.52	0.40
5:Y:102:VAL:CG1	5:Y:119:ILE:HD11	2.52	0.40
1:B:26:GLU:CB	1:B:27:PRO:HA	2.51	0.40
2:C:51:THR:OG1	2:C:348:LEU:HB3	2.21	0.40
2:C:267:TYR:N	2:C:267:TYR:HD2	2.17	0.40
2:C:445:GLU:HG3	2:C:560:MET:HE1	2.04	0.40
2:C:570:PRO:HD2	2:C:635:THR:HG21	2.04	0.40
2:C:586:ARG:HH11	2:C:586:ARG:HA	1.86	0.40
2:C:746:GLY:O	2:C:799:ILE:HD11	2.21	0.40
2:C:900:ARG:HH21	2:C:900:ARG:HD2	1.75	0.40
2:C:975:TYR:HA	2:C:982:PRO:CA	2.46	0.40
3:D:575:GLN:O	3:D:579:ASP:OD2	2.40	0.40
3:D:834:THR:HG1	3:D:838:ARG:HB2	1.84	0.40
3:D:900:ILE:HG12	3:D:901:GLN:N	2.37	0.40
3:D:911:LEU:O	3:D:914:LEU:HB3	2.21	0.40
3:D:959:GLU:O	3:D:962:GLN:HB3	2.22	0.40
3:D:1045:MET:HE3	3:D:1073:SER:HA	2.02	0.40
3:D:1107:VAL:HB	3:D:1218:GLY:N	2.35	0.40
3:D:1155:VAL:CG1	3:D:1182:GLU:OE1	2.70	0.40
3:D:1236:LEU:HD22	3:D:1359:GLN:HG3	2.02	0.40
4:E:4:PRO:O	4:E:6:ILE:N	2.55	0.40
1:F:100:LEU:HD21	1:F:102:LYS:HE3	2.03	0.40
1:F:138:LEU:HD12	1:F:139:ASN:N	2.36	0.40
1:G:172:SER:O	1:G:174:VAL:N	2.54	0.40
2:H:48:PHE:O	2:H:50:GLU:N	2.55	0.40
2:H:164:PRO:HB3	2:H:265:ARG:HB2	2.03	0.40
2:H:250:ARG:HH22	2:H:252:LYS:CG	2.34	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:373:VAL:CG2	2:H:374:ASN:N	2.82	0.40
2:H:496:ILE:HB	2:H:516:ARG:CD	2.52	0.40
2:H:545:ASN:O	2:H:581:THR:HG21	2.21	0.40
2:H:754:ILE:CG2	2:H:756:VAL:O	2.69	0.40
2:H:848:VAL:HG12	2:H:849:VAL:H	1.87	0.40
2:H:1002:GLU:C	2:H:1004:LYS:H	2.24	0.40
3:I:137:PRO:HD2	3:I:453:ASP:O	2.21	0.40
3:I:808:THR:OG1	3:I:809:PRO:HD3	2.21	0.40
3:I:817:GLU:O	3:I:821:VAL:HG23	2.21	0.40
3:I:862:ASP:O	3:I:877:PRO:HD3	2.21	0.40
3:I:1192:LEU:HD11	3:I:1369:GLU:HG2	2.03	0.40
1:K:80:LEU:CD2	1:K:81:ASN:OD1	2.70	0.40
1:K:124:ASN:N	1:K:125:PRO:HD3	2.37	0.40
1:K:133:GLU:OE1	2:M:605:LYS:HG3	2.21	0.40
1:K:181:VAL:N	2:M:937:ASP:OD1	2.55	0.40
2:M:10:ARG:HA	2:M:10:ARG:NE	2.36	0.40
2:M:22:GLN:HB3	2:M:121:MET:CE	2.52	0.40
2:M:218:VAL:C	2:M:220:GLY:H	2.24	0.40
2:M:292:ARG:HA	2:M:292:ARG:HE	1.85	0.40
2:M:302:VAL:C	2:M:305:PRO:HD2	2.42	0.40
2:M:390:GLN:H	2:M:390:GLN:CD	2.25	0.40
2:M:449:ILE:C	2:M:451:LEU:H	2.25	0.40
2:M:873:PRO:HB3	3:N:949:ILE:CD1	2.52	0.40
2:M:1008:ARG:HD2	2:M:1027:PHE:O	2.21	0.40
3:N:907:GLU:HG2	3:N:1027:GLY:H	1.86	0.40
3:N:930:LEU:HG	3:N:934:LEU:HD11	2.04	0.40
3:N:1256:LEU:O	3:N:1257:PRO:C	2.60	0.40
4:O:23:VAL:O	4:O:27:ALA:HB2	2.22	0.40
4:O:24:ALA:O	4:O:27:ALA:HB3	2.21	0.40

There are no symmetry-related clashes.

## 5.3 Torsion angles [i](#)

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

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	221/315 (70%)	167 (76%)	41 (19%)	13 (6%)	1	20
1	B	222/315 (70%)	171 (77%)	43 (19%)	8 (4%)	3	28
1	F	221/315 (70%)	166 (75%)	41 (19%)	14 (6%)	1	19
1	G	221/315 (70%)	168 (76%)	43 (20%)	10 (4%)	2	24
1	K	223/315 (71%)	173 (78%)	39 (18%)	11 (5%)	2	23
1	L	222/315 (70%)	165 (74%)	47 (21%)	10 (4%)	2	24
2	C	1074/1119 (96%)	774 (72%)	213 (20%)	87 (8%)	1	14
2	H	1075/1119 (96%)	766 (71%)	223 (21%)	86 (8%)	1	14
2	M	1074/1119 (96%)	765 (71%)	222 (21%)	87 (8%)	1	14
3	D	1326/1524 (87%)	943 (71%)	271 (20%)	112 (8%)	1	13
3	I	1308/1524 (86%)	958 (73%)	247 (19%)	103 (8%)	1	14
3	N	1313/1524 (86%)	953 (73%)	258 (20%)	102 (8%)	1	15
4	E	91/99 (92%)	66 (72%)	18 (20%)	7 (8%)	1	15
4	J	91/99 (92%)	62 (68%)	22 (24%)	7 (8%)	1	15
4	O	91/99 (92%)	58 (64%)	27 (30%)	6 (7%)	1	18
5	X	152/156 (97%)	125 (82%)	21 (14%)	6 (4%)	3	26
5	Y	152/156 (97%)	118 (78%)	23 (15%)	11 (7%)	1	16
5	Z	152/156 (97%)	119 (78%)	24 (16%)	9 (6%)	1	20
All	All	9229/10584 (87%)	6717 (73%)	1823 (20%)	689 (8%)	1	15

All (689) Ramachandran outliers are listed below:

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

### 5.3.2 Protein sidechains [i](#)

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	196/273 (72%)	163 (83%)	33 (17%)	2	14
1	B	197/273 (72%)	161 (82%)	36 (18%)	1	11
1	F	196/273 (72%)	160 (82%)	36 (18%)	1	11
1	G	196/273 (72%)	163 (83%)	33 (17%)	2	14
1	K	196/273 (72%)	168 (86%)	28 (14%)	3	18
1	L	197/273 (72%)	160 (81%)	37 (19%)	1	10
2	C	909/941 (97%)	763 (84%)	146 (16%)	2	15
2	H	910/941 (97%)	762 (84%)	148 (16%)	2	14
2	M	909/941 (97%)	763 (84%)	146 (16%)	2	15
3	D	1124/1279 (88%)	948 (84%)	176 (16%)	2	16
3	I	1114/1279 (87%)	951 (85%)	163 (15%)	3	17
3	N	1120/1279 (88%)	946 (84%)	174 (16%)	2	16
4	E	82/88 (93%)	69 (84%)	13 (16%)	2	15
4	J	82/88 (93%)	70 (85%)	12 (15%)	3	17
4	O	82/88 (93%)	68 (83%)	14 (17%)	2	13
5	X	128/129 (99%)	111 (87%)	17 (13%)	4	20
5	Y	128/129 (99%)	108 (84%)	20 (16%)	2	16
5	Z	128/129 (99%)	104 (81%)	24 (19%)	1	10
All	All	7894/8949 (88%)	6638 (84%)	1256 (16%)	2	15

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Mol	Chain	Res	Type
1	A	81	ASN

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

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

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

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

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

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

### 5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

### 5.5 Carbohydrates [i](#)

There are no monosaccharides in this entry.

## 5.6 Ligand geometry

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

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

No monomer is involved in short contacts.

## 5.7 Other polymers

There are no such residues in this entry.

## 5.8 Polymer linkage issues

There are no chain breaks in this entry.

## 6 Fit of model and data

### 6.1 Protein, DNA and RNA chains

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

Mol	Chain	Analysed	<RSRZ>	#RSRZ > 2	OWAB(Å <sup>2</sup> )	Q < 0.9
1	A	223/315 (70%)	-0.30	3 (1%) 77 68	89, 173, 228, 279	0
1	B	224/315 (71%)	-0.33	1 (0%) 92 87	108, 172, 229, 282	0
1	F	223/315 (70%)	-0.39	1 (0%) 92 87	83, 162, 225, 270	0
1	G	223/315 (70%)	-0.45	0 100 100	91, 153, 211, 230	0
1	K	225/315 (71%)	-0.17	2 (0%) 84 77	116, 192, 249, 279	0
1	L	224/315 (71%)	-0.43	0 100 100	89, 167, 217, 242	0
2	C	1080/1119 (96%)	-0.33	6 (0%) 89 84	80, 168, 245, 311	0
2	H	1081/1119 (96%)	-0.35	10 (0%) 84 77	67, 161, 239, 339	0
2	M	1080/1119 (96%)	-0.30	16 (1%) 73 64	80, 174, 247, 315	0
3	D	1334/1524 (87%)	-0.28	15 (1%) 80 72	83, 172, 251, 342	0
3	I	1318/1524 (86%)	-0.22	22 (1%) 70 61	65, 181, 280, 356	0
3	N	1323/1524 (86%)	-0.26	17 (1%) 77 68	77, 176, 260, 310	0
4	E	93/99 (93%)	-0.07	2 (2%) 62 52	115, 192, 279, 362	0
4	J	93/99 (93%)	-0.26	2 (2%) 62 52	115, 177, 268, 293	0
4	O	93/99 (93%)	-0.17	2 (2%) 62 52	88, 176, 245, 261	0
5	X	154/156 (98%)	0.12	8 (5%) 27 24	146, 228, 282, 303	0
5	Y	154/156 (98%)	0.21	9 (5%) 23 19	157, 237, 315, 379	0
5	Z	154/156 (98%)	0.07	7 (4%) 33 28	133, 219, 288, 356	0
All	All	9299/10584 (87%)	-0.27	123 (1%) 77 68	65, 175, 259, 379	0

All (123) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
4	E	56	ASP	7.0
4	E	57	ASP	6.3
3	I	211	VAL	5.8

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
2	C	807	ARG	5.2
5	Y	129	LEU	4.7
2	M	248	PRO	4.4
3	I	409	VAL	4.3
3	I	161	LEU	4.1
4	J	56	ASP	4.1
3	D	36	THR	3.7
3	I	165	LYS	3.5
2	M	721	ARG	3.5
5	Y	82	VAL	3.5
2	H	711	GLU	3.5
5	Z	102	VAL	3.5
5	X	89	VAL	3.4
2	M	643	VAL	3.4
3	I	182	GLY	3.4
5	X	104	VAL	3.4
2	M	644	VAL	3.4
2	C	248	PRO	3.3
4	O	56	ASP	3.3
5	Y	83	ILE	3.3
3	D	37	LEU	3.2
2	M	270	GLY	3.2
3	D	38	LYS	3.2
4	J	57	ASP	3.2
3	N	165	LYS	3.1
2	H	417	GLY	3.1
2	M	70	GLU	3.0
3	N	161	LEU	3.0
3	I	1313	VAL	3.0
3	I	193	PRO	2.9
3	D	35	ARG	2.9
2	H	805	ARG	2.9
3	I	203	ALA	2.8
2	C	808	ARG	2.8
3	I	801	GLY	2.7
3	N	808	THR	2.7
5	Y	98	GLU	2.7
1	F	204	SER	2.7
2	H	822	VAL	2.7
5	Z	101	SER	2.7
3	I	367	ILE	2.7
3	N	31	THR	2.7

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
5	X	141	ASP	2.6
2	C	1080	SER	2.6
2	M	711	GLU	2.6
2	M	757	GLY	2.6
3	N	1292	VAL	2.6
3	N	44	LEU	2.6
1	K	87	VAL	2.6
2	M	422	ARG	2.5
3	D	33	ASN	2.5
3	I	191	LEU	2.5
3	I	407	VAL	2.5
3	N	346	ARG	2.5
3	D	796	ARG	2.5
1	A	177	VAL	2.4
3	D	1294	VAL	2.4
5	Z	48	TYR	2.4
5	Y	137	VAL	2.4
2	H	648	ARG	2.4
3	I	121	THR	2.4
2	H	616	GLU	2.3
3	D	356	PRO	2.3
3	D	856	GLY	2.3
5	X	84	GLY	2.3
2	M	247	PRO	2.3
1	B	178	ALA	2.3
3	D	1313	VAL	2.3
3	N	1486	VAL	2.2
5	Z	125	MET	2.2
3	D	482	LYS	2.2
2	M	363	SER	2.2
3	N	345	TYR	2.2
3	D	34	TYR	2.2
5	Y	87	SER	2.2
2	M	647	GLN	2.2
1	K	204	SER	2.2
5	Y	132	HIS	2.2
2	M	417	GLY	2.2
3	N	801	GLY	2.2
2	M	249	LYS	2.2
3	I	31	THR	2.2
2	H	423	ALA	2.2
3	I	366	LYS	2.2

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Mol	Chain	Res	Type	RSRZ
3	I	360	ARG	2.1
5	Z	89	VAL	2.1
2	H	606	VAL	2.1
3	N	393	ILE	2.1
2	H	643	VAL	2.1
2	H	814	GLU	2.1
2	M	725	ASP	2.1
3	D	854	ALA	2.1
3	N	1305	LEU	2.1
2	C	757	GLY	2.1
3	I	120	ALA	2.1
5	Z	5	VAL	2.1
4	O	93	TYR	2.1
3	I	1406	ARG	2.1
5	X	137	VAL	2.1
5	X	91	LEU	2.1
3	I	29	PRO	2.1
3	I	796	ARG	2.1
3	N	366	LYS	2.1
5	Z	139	SER	2.1
3	D	421	LEU	2.1
5	X	83	ILE	2.1
3	N	427	VAL	2.0
5	X	102	VAL	2.0
3	I	421	LEU	2.0
3	N	45	PHE	2.0
5	Y	48	TYR	2.0
2	C	425	PHE	2.0
3	N	405	ASP	2.0
3	D	1238	MET	2.0
1	A	25	LEU	2.0
1	A	178	ALA	2.0
3	I	38	LYS	2.0
3	N	409	VAL	2.0
2	M	936	VAL	2.0
5	Y	84	GLY	2.0

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

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

### 6.3 Carbohydrates [i](#)

There are no monosaccharides 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. The B-factors column lists the minimum, median, 95<sup>th</sup> percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists the number of atoms with occupancy less than 0.9.

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors( $\text{\AA}^2$ )	Q<0.9
7	MG	N	1602	1/1	0.91	0.38	182,182,182,182	0
6	ZN	I	1601	1/1	0.94	0.07	666,666,666,666	0
7	MG	I	1602	1/1	0.95	1.08	114,114,114,114	0
6	ZN	N	1601	1/1	0.95	0.06	333,333,333,333	0
6	ZN	D	2001	1/1	0.97	0.06	221,221,221,221	0
7	MG	D	2002	1/1	0.97	0.17	130,130,130,130	0

### 6.5 Other polymers [i](#)

There are no such residues in this entry.