



# Full wwPDB X-ray Structure Validation Report ⓘ

May 29, 2020 – 06:46 am BST

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.

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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 : 2.11  
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) : 2.11

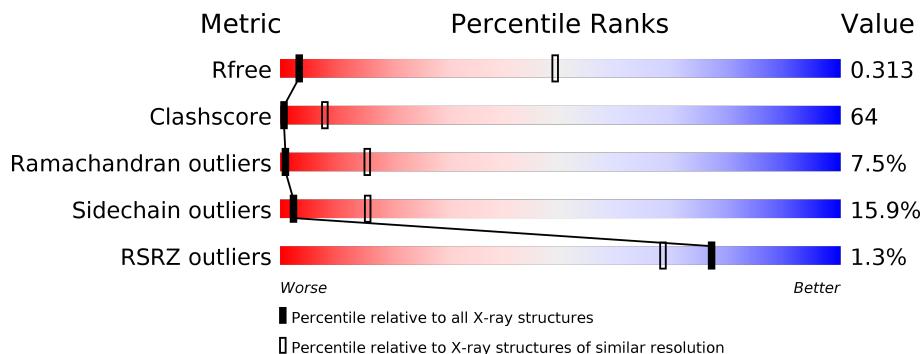
# 1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

*X-RAY DIFFRACTION*

The reported resolution of this entry is 4.40 Å.

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



Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
$R_{free}$	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 on 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	 17% 43% 10% 29%
1	B	315	 17% 44% 10% 29%
1	F	315	 19% 39% 12% 29%
1	G	315	 20% 39% 11% 29%
1	K	315	 19% 43% 10% 29%
1	L	315	 16% 43% 11% 29%

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Mol	Chain	Length	Quality of chain
2	C	1119	<p>% 23% 57% 15% . .</p>
2	H	1119	<p>% 22% 58% 16% . .</p>
2	M	1119	<p>% 25% 56% 15% . .</p>
3	D	1524	<p>% 22% 51% 13% . 12%</p>
3	I	1524	<p>% 23% 50% 12% . 14%</p>
3	N	1524	<p>% 22% 52% 13% . 13%</p>
4	E	99	<p>2% 39% 42% 10% . 6%</p>
4	J	99	<p>2% 24% 58% 12% 6%</p>
4	O	99	<p>2% 23% 57% 14% 6%</p>
5	X	156	<p>5% 29% 56% 11% . .</p>
5	Y	156	<p>6% 35% 48% 14% . .</p>
5	Z	156	<p>4% 26% 57% 13% . .</p>

## 2 Entry composition [i](#)

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	I	1	Total	Zn	0	0
			1	1		
6	D	1	Total	Zn	0	0
			1	1		
6	N	1	Total	Zn	0	0
			1	1		

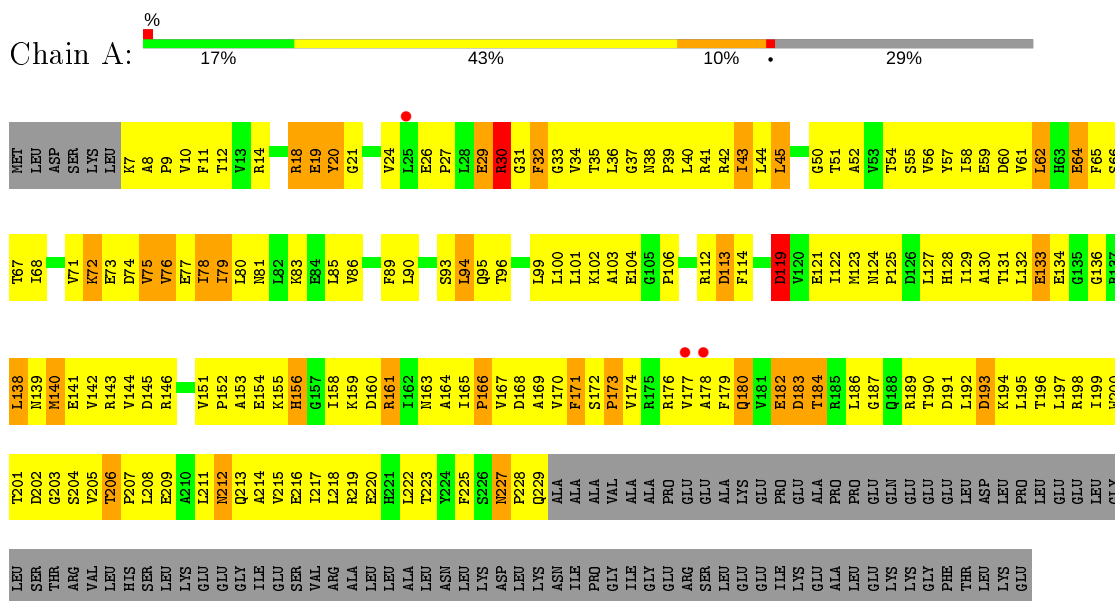
- Molecule 7 is MAGNESIUM ION (three-letter code: MG) (formula: Mg).

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

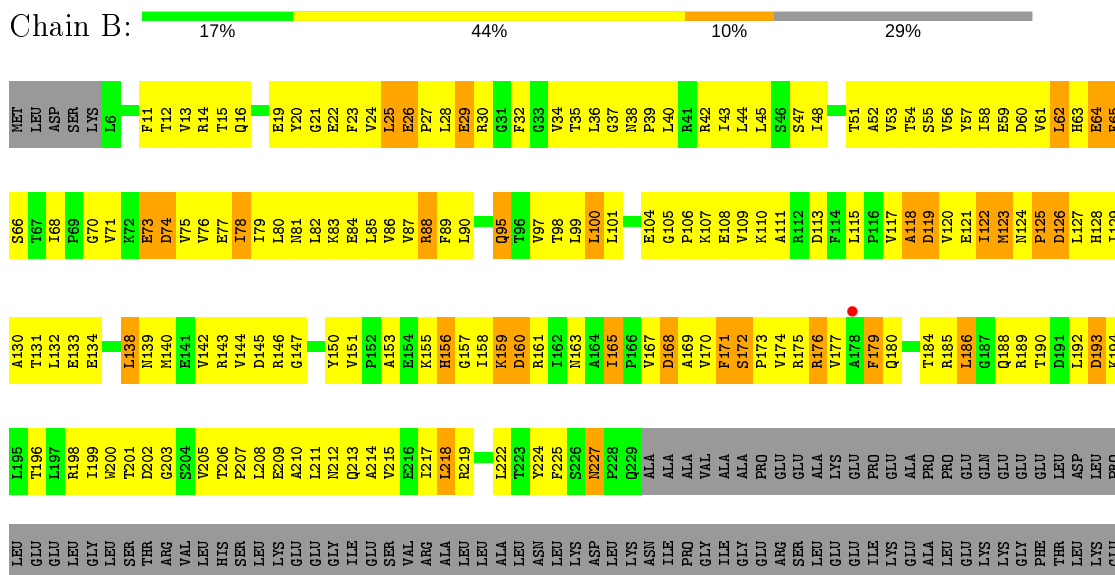
### 3 Residue-property plots

These plots are drawn for all protein, RNA and DNA chains in the entry. The first graphic for a chain summarises the proportions of 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.

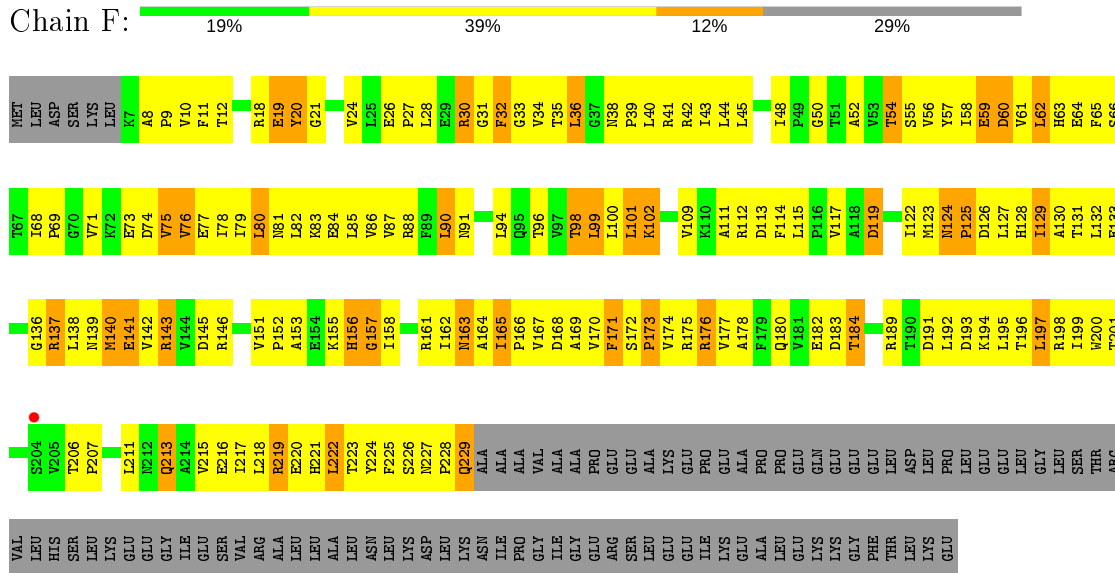
- Molecule 1: DNA-directed RNA polymerase subunit alpha



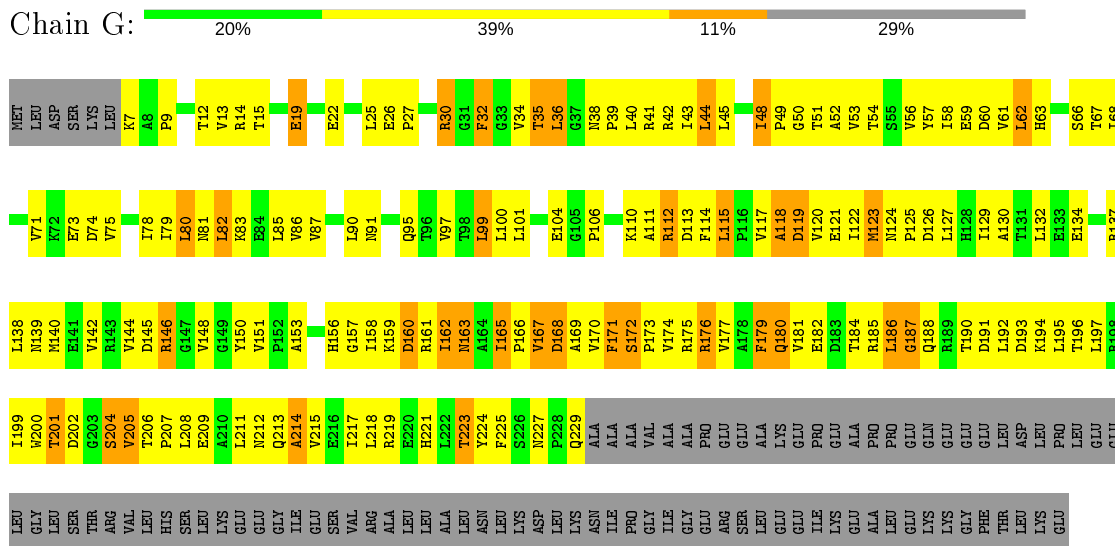
- Molecule 1: DNA-directed RNA polymerase subunit alpha



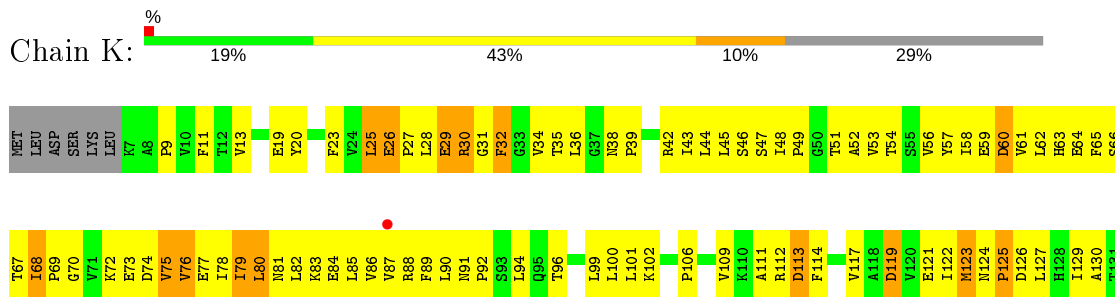
• Molecule 1: DNA-directed RNA polymerase subunit alpha

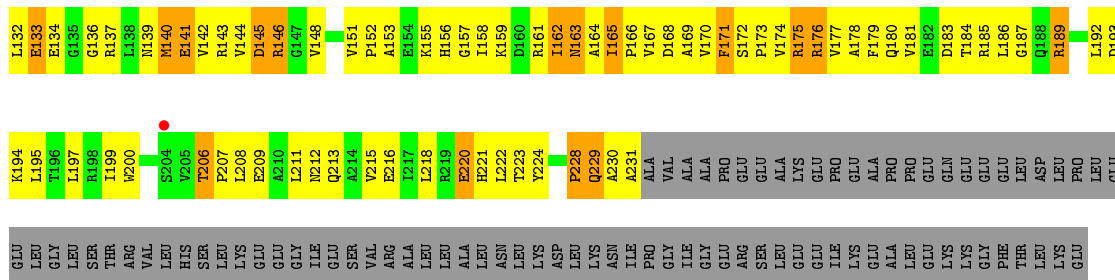


• Molecule 1: DNA-directed RNA polymerase subunit alpha

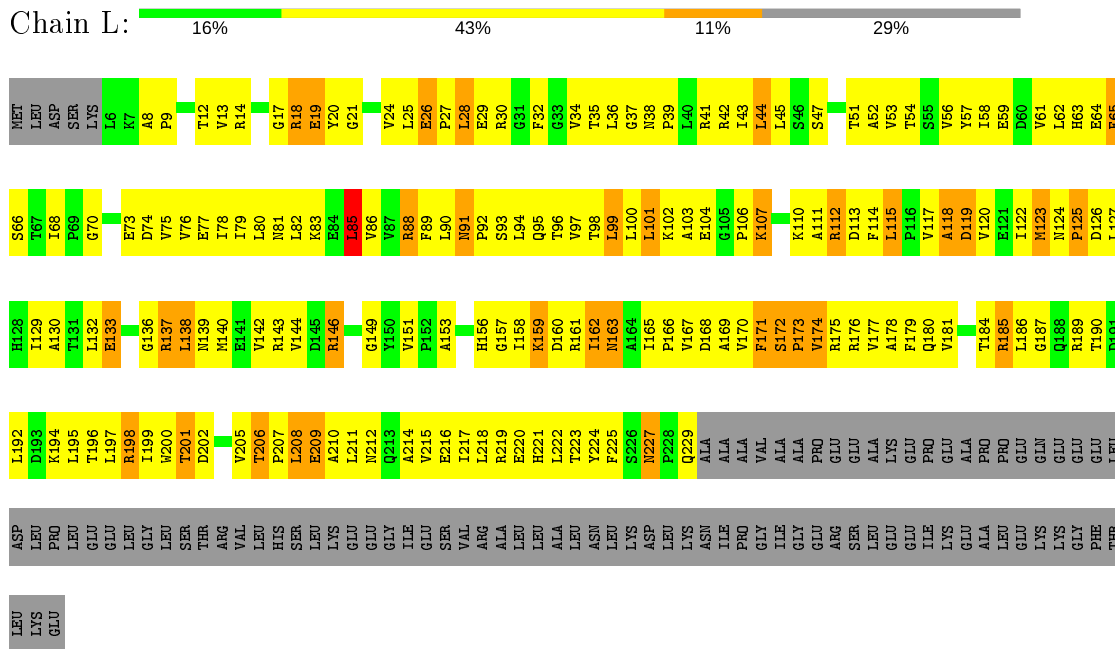


• Molecule 1: DNA-directed RNA polymerase subunit alpha

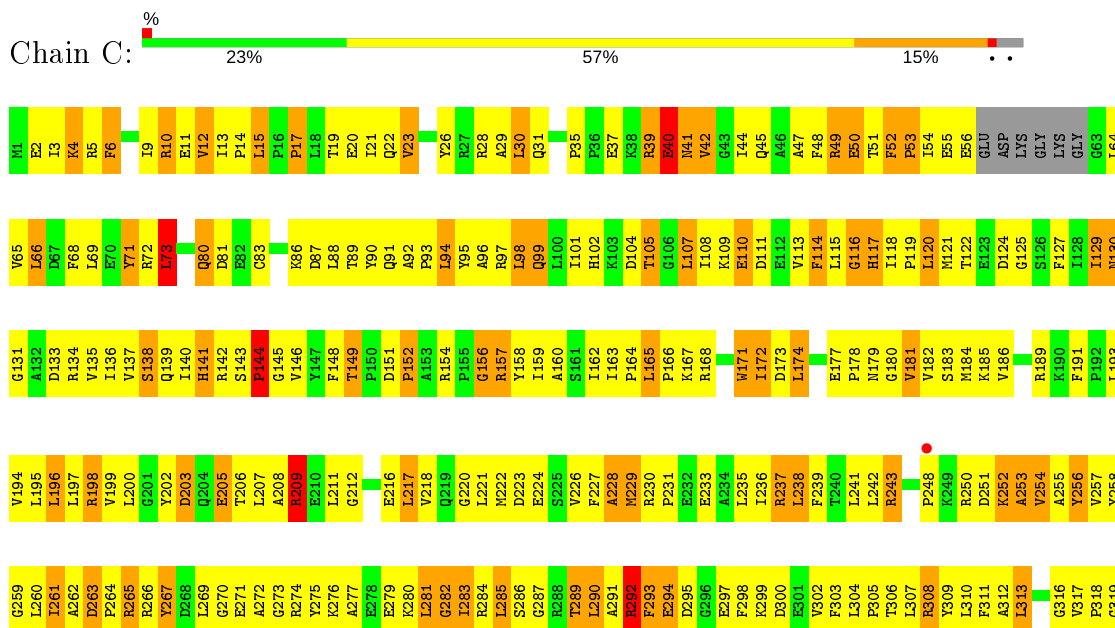




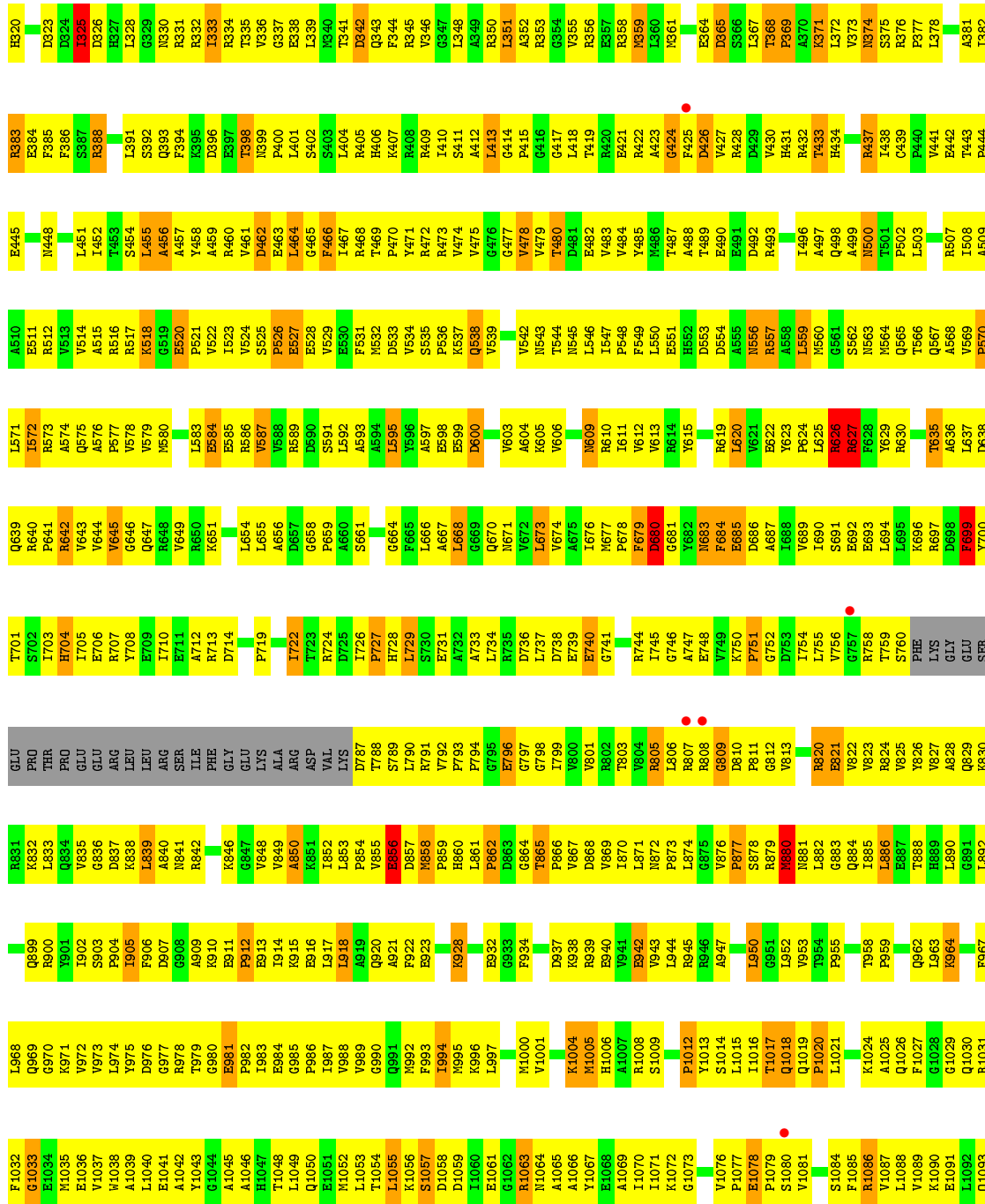
• Molecule 1: DNA-directed RNA polymerase subunit alpha



• Molecule 2: DNA-directed RNA polymerase subunit beta







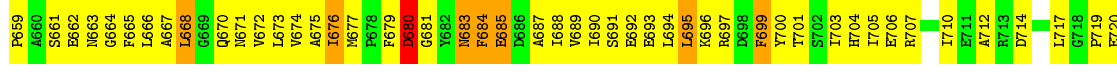
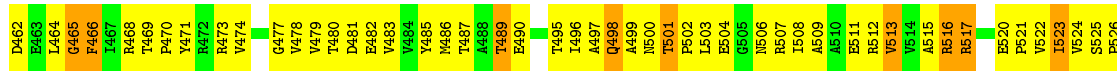
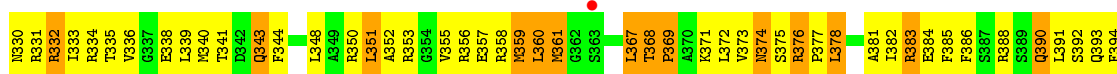
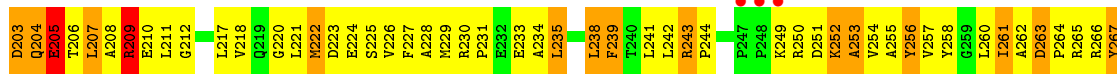
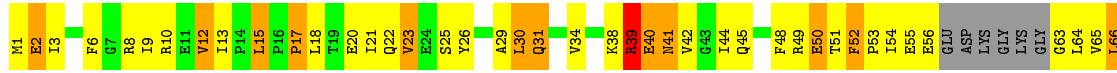
• Molecule 2: DNA-directed RNA polymerase subunit beta

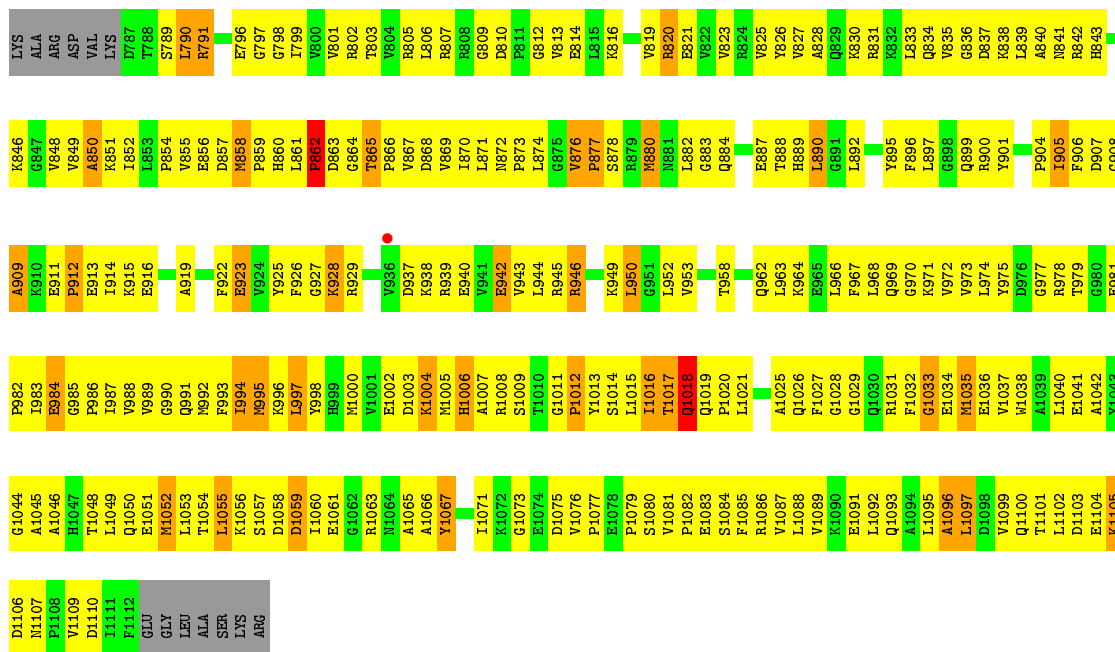


V973	G898	G886	ARG	E711	V649	E585	I593	A457	R388	I325	A262	R198	LYS
L974	Q899	D837	SER	A712	R650	R986	V624	V461	S389	D826	D263	V199	GLY
Y975	R900	K838	ILE	R713	V653	V587	S525	V651	Q390	E327	P264	L200	G63
D976	Y901	L839	PHE	D714	D653	V688	P526	D462	L391	L328	R265	G201	L64
G977	I902	A840	GLY	K715	R654	R689	E527	E463	S392	G329	Y202	Y203	V65
R978	S903	M841	GLU	T716	L655	D590	E528	L464	Q393	R266	R267	Q204	L66
R979	P904	R842	LYS	K716	A656	S591	V529	F384	F384	D688	D268	O204	D67
G980	I905	R842	ALA	P719	D657	L592	E530	F466	K395	L269	L141	R142	F66
G981	F906	K846	ARG	E720	G658	A693	F531	L467	D396	T206	T206	R142	L69
G982	D907	G847	ASP	I721	S661	A594	M532	R468	E397	E271	E271	S143	E70
G983	G908	V848	VAL	I722	L595	L595	D533	T395	T398	A272	A272	P144	E71
G984	A909	R849	K766	R723	E662	V596	V534	P470	V366	G273	G273	G145	R72
G985	K910	A850	D787	R724	N663	A597	S585	Y471	R274	R274	R274	V146	R73
G986	E911	K851	T788	D725	G664	E598	F536	R472	E338	Y275	Y275	V146	G74
G987	R912	L852	S789	I726	F665	E599	R537	R473	M390	K276	K276	F148	E75
G988	E913	L853	L790	P727	L666	D600	O538	V474	L404	A277	A277	F149	E76
G989	I914	P854	R791	H728	A667	D607	V539	V475	R406	E278	E278	P150	E77
G990	R915	R855	R792	H728	G667	G601	F540	G476	K407	E279	E279	D151	E78
G991	E916	E856	P793	E731	L668	E602	F540	G476	K408	K280	K280	P152	Q80
G992	L917	D857	F794	A732	Q670	V603	S541	G477	R408	L281	L281	D81	D81
G993	L918	M858	G795	A733	M671	R605	V542	V478	R409	F344	F344	R154	L88
G994	A921	P859	E796	L734	V672	V606	T544	V480	L410	R346	R346	R154	L88
G995	F922	R860	R797	R735	L673	D607	M545	D481	A412	V346	V346	P155	T89
G996	F922	L861	G798	D736	V674	G608	L546	E482	L413	G347	G347	P155	T89
G997	Y925	R862	I799	R744	A675	N609	L547	V483	G414	L285	L285	R157	Q91
G998	F926	D863	V800	A747	I676	R610	F548	V484	P415	S286	S286	Y158	A92
G999	G927	T865	R802	E740	P677	I611	F549	V485	G416	G287	G287	L159	P83
G1000	K928	P866	T803	G741	P678	V612	L550	N486	L351	R288	R288	A160	L94
G1001	R929	R867	R804	V743	F679	R613	E551	T487	L418	T290	T290	S161	L94
G1002	E932	D868	R805	R744	G681	V615	H552	A488	G354	A291	A291	I162	R97
G1003	E932	R869	L806	R744	Y682	E616	H552	A488	G354	R292	R292	I162	R97
G1004	R939	L870	R807	A747	M683	E618	M556	D492	R358	E232	E232	I162	R97
G1005	E940	M872	R808	E748	F684	O618	F425	G424	R358	R299	R299	I162	R97
G1006	P873	P873	D810	V749	E685	V623	R557	R493	M359	A234	A234	I162	R97
G1007	L874	L874	P811	P751	D686	V623	R557	R493	M359	A234	A234	I162	R97
G1008	G875	G875	G812	G752	A687	V623	L559	T495	L360	D300	D300	L235	G106
G1009	P876	P876	G812	G752	I688	P624	M560	L496	S863	E301	E301	L236	G106
G1010	R877	R877	V813	D753	V689	L625	G561	A497	E364	V302	V302	R237	I107
G1011	P877	P877	E814	I754	I690	R626	G561	A497	E364	V302	V302	R237	I107
G1012	S878	S878	L314	L754	S691	R626	G561	A497	E364	V302	V302	R237	I107
G1013	R879	R879	K316	K316	S691	R626	G561	A497	E364	V302	V302	R237	I107
G1014	M880	M880	V819	V819	E693	V629	O565	T566	S366	L304	L304	R237	I107
G1015	M881	M881	M820	M820	L694	R630	Q575	V514	S366	L304	L304	R237	I107
G1016	L882	L882	R820	R820	L695	S631	Q575	V514	S366	L304	L304	R237	I107
G1017	G883	G883	E821	E821	R697	M632	P570	I508	R437	F303	F303	R237	I107
G1018	Q884	Q884	V822	V822	D698	O633	L571	A509	I438	L372	L372	R237	I107
G1019	L952	L952	V823	V823	F699	O633	L571	A509	I438	L372	L372	R237	I107
G1020	V953	V953	R824	R824	G692	R628	O565	T566	S366	L304	L304	R237	I107
G1021	T954	T954	V825	V825	E693	V629	O565	T566	S366	L304	L304	R237	I107
G1022	P955	P955	Y826	Y826	L694	R630	Q575	V514	S366	L304	L304	R237	I107
G1023	Q962	Q962	V827	V827	S702	O639	Q575	V514	S366	L304	L304	R237	I107
G1024	L963	L963	A828	A828	I703	R640	P577	A515	G450	V317	V317	R237	I107
G1025	K964	K964	Q829	Q829	H704	P641	P577	A515	G450	V317	V317	R237	I107
G1026	E965	E965	K830	K830	I705	R642	P577	A515	G450	V317	V317	R237	I107
G1027	L966	L966	R831	R831	E706	V643	V514	S366	L304	L304	L304	R237	I107
G1028	F967	F967	K832	K832	R707	V643	V514	S366	L304	L304	L304	R237	I107
G1029	L968	L968	L833	L833	Y708	O646	G582	S454	F385	V322	V322	R237	I107
G1030	F969	F969	Q834	Q834	E709	O647	L583	F385	V322	V322	V322	R237	I107
G1031	A1039	A1039	R835	R835	I710	R648	E584	V522	A456	D324	D324	R237	I107

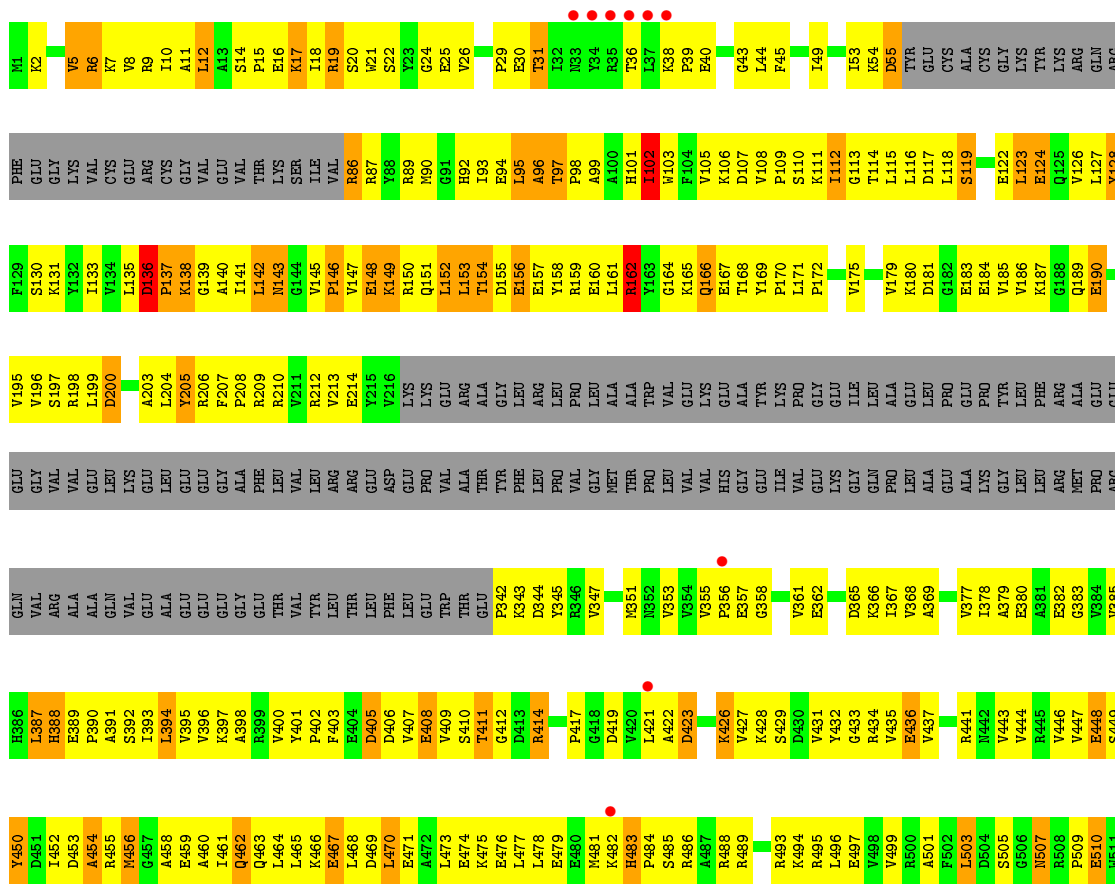


• Molecule 2: DNA-directed RNA polymerase subunit beta





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



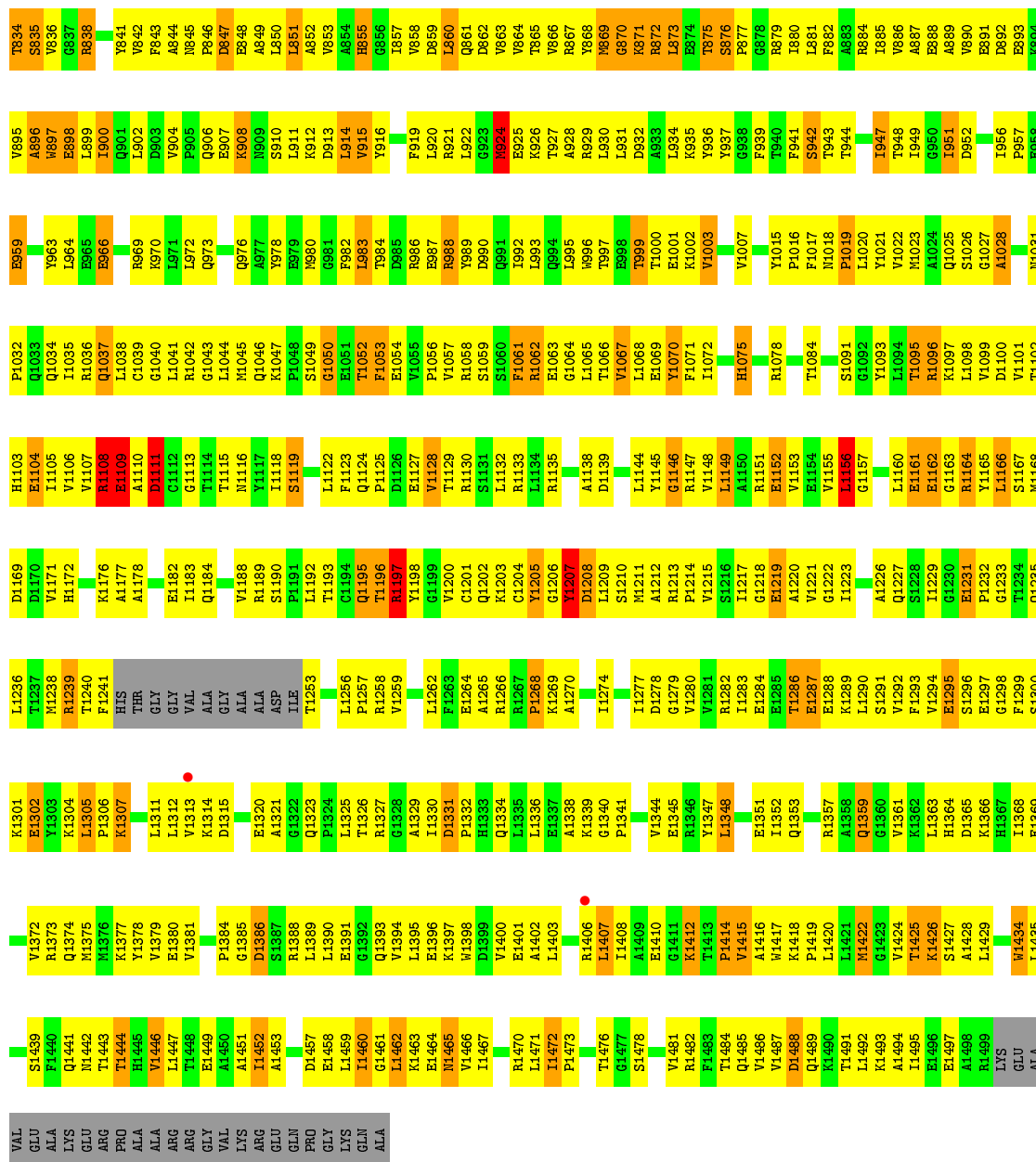
L1411	K1412	L1413	L1414	L1415	L1416	L1417	L1421	M1422	M1423	L1424	L1425	K1426	S1427	A1428	L1429	L1430	L1431	K1432	S1433	W1434	L1435	S1438	F1440	N1441	N1442	L1443	L1444	L1445	L1446	L1447	L1448	L1449	L1450	L1451	L1452	L1453	D1457	L1458	L1459	L1460	L1461	L1462	K1463	L1464	N1465	L1466	L1467	L1468	L1469	L1470	L1471	L1472	P1473	A1474	L1475	L1476				
E1350	E1351	L1352	Q1353	K1354	L1355	L1356	L1357	L1358	L1359	L1360	L1361	L1362	L1363	H1364	L1365	L1366	H1367	L1368	E1369	L1370	L1371	L1372	L1373	Q1374	M1375	L1376	K1377	L1378	L1379	L1380	L1381	L1382	L1383	L1384	L1385	L1386	L1387	L1388	L1389	L1390	E1391	L1392	Q1393	L1394	L1395	E1396	K1397	L1398	L1399	L1400	E1401	L1402	L1403	N1404	E1405	L1406	L1407	L1408	L1409	L1410
G1279	V1280	R1281	R1282	E1283	E1284	E1285	E1286	E1287	E1288	V1292	L1293	V1294	E1295	L1296	E1297	L1298	F1299	S1300	K1301	E1302	E1303	K1304	R1310	V1313	K1314	L1315	L1316	L1317	L1318	L1319	E1320	Q1323	P1324	L1325	L1326	R1327	L1330	P1332	L1331	P1332	L1333	Q1334	L1335	L1336	L1337	L1338	L1339	L1340	L1341	L1342	L1343	L1344	L1345	L1346	L1347	L1348	L1349	L1350		
P1214	V1215	S1216	L1217	G1218	E1219	A1220	V1221	G1222	L1223	V1224	A1225	Q1227	S1228	L1229	L1230	E1231	P1232	G1233	L1234	Q1235	L1236	T1237	M1238	R1239	F1240	H1242	L1243	L1244	G1245	V1246	A1250	D1251	L1252	T1253	L1256	P1257	R1258	V1259	E1261	L1262	F1263	E1264	A1265	L1266	R1267	P1268	K1271	L1272	L1273	I1274	L1277	D1278								
V1153	E1154	L1155	L1156	L1157	L1158	L1159	L1160	E1161	E1162	G1163	L1164	L1165	L1166	S1167	M1168	D1169	L1170	L1171	H1172	L1173	L1174	L1175	K1176	A1177	H1178	E1179	E1182	L1183	L1184	L1185	L1186	P1187	L1188	R1189	L1190	L1192	L1193	Q1194	Q1195	L1196	E1197	L1198	G1199	V1200	C1201	Q1202	K1203	C1204	L1205	L1206	L1207	L1208	L1209	S1210	M1211	L1212	L1213			
L1020	Y1021	V1022	M1023	E1024	E1025	G1027	A1028	R1029	G1030	M1031	P1032	Q1033	Q1034	L1035	H1036	L1037	Q1038	C1039	G1040	L1041	L1042	L1043	L1044	Q1046	K1047	G1050	L1051	L1052	F1053	E1054	L1055	V1056	L1057	S1059	S1060	F1061	R1062	E1063	L1064	L1065	T1066	Y1067	L1068	E1069	Y1070	F1071	I1072	S1073	H1074	H1075	L1076	L1077	L1078	D1083	T1084					
A887	E888	A889	V890	E891	D892	E893	K894	S895	A896	M897	E898	L899	I900	Q901	L902	F811	D903	V904	E907	R908	N909	F982	L911	L914	Y915	Y916	L920	R921	L922	G923	R924	E925	K926	L927	A928	R929	L930	L931	L935	V936	Y937	Q938	F939	L940	F941	S942	M1010	T944	S945	G946	L881	T947	L948	L949	G950	N1018	L951	D952		
P957	E958	E959	E960	K961	Q962	L963	L964	K970	L971	L972	Q973	R974	E975	Q976	A977	Y978	E979	R980	G981	F982	L983	T984	D985	R986	E987	R988	L920	R921	L922	G923	R924	E925	K926	L927	A928	R929	L930	L931	L935	V936	Y937	Q938	F939	L940	F941	S942	M1010	T944	S945	G946	L881	T947	L948	L949	G950	N1018	L951	D952		
L827	K828	V829	A830	E831	R832	E833	T834	S835	V836	G837	R838	L839	K840	R841	L842	F843	D844	R845	F846	D847	E848	L849	L850	L851	A852	V853	R854	R855	L856	L857	R858	D859	T865	V866	R867	L868	R869	L870	L873	A874	T875	S876	P877	R878	R879	E880	L881	T882	F883	L884	L885	R886	V886							
M512	L513	L514	E515	A516	V517	P518	V519	L520	P521	E522	D523	L524	V525	PRO	MET	VAL	GLN	VAL	ASP	GLY	GLY	ARG	PHE	A536	T837	S838	D839	L540	N541	D542	L543	Y544	R545	R546	L547	L548	N549	R550	N551	N552	R553	L554	K555	L557	Q560	G561	V622	D624	Y625	E564	L565	I566	E629	I630	N631	E570	V632	K571	R572	
M573	L574	Q575	V578	R579	D580	L581	L582	D583	N584	P585	G586	R587	G588	P590	V591	GLN	V592	M593	P594	G595	S596	D597	A536	R598	P599	L600	R601	S602	L603	T604	D605	L606	L607	S608	Q611	G612	R613	F614	R615	Q616	N617	L618	L619	G620	K621	R622	V623	D624	Y625	E626	G627	R628	E629	V630	I631	E632	V633	R634	Q762	
R635	Q636	L637	R638	H640	L641	C642	C643	L644	G645	K646	R647	M648	A649	L650	E651	L652	F653	K654	P655	L658	K659	M660	M661	E662	E663	K664	G665	L666	M669	V670	F736	A672	A673	A674	R675	M676	L677	E678	R679	Q680	R684	D685	E686	V687	W688	D689	A690	L691	E692	E693	V694	I695	H696	R697	Q762					
V700	L701	L702	N703	R704	A705	P706	T707	L708	R709	G775	L710	L711	G712	L713	Q714	A715	F716	Q717	F718	V719	L720	W721	E722	S725	L726	Q727	L728	H729	L603	G665	L666	L669	M670	F736	A672	A673	R675	M676	L677	E678	R679	Q680	R684	D685	E686	V687	W688	D689	A690	L691	E692	E693	V694	I695	H696	R697	Q762			
M763	L764	S765	A766	H767	M768	L769	S774	E775	E776	F777	L778	L779	A780	K780	F781	S782	R783	W784	L785	L786	L787	G788	L789	Y790	L791	L792	L793	L794	R800	A801	A802	G803	L804	E805	F806	A807	L812	L813	A814	A815	R816	E817	R818	G819	E820	V821	A822	L823	N824	A825	P826									

G1477	S1478	V1481	F1482	T1484	Q1485	V1486	V1487	I10	I1491	L1492	K1493	A1494	I1495	E1496	E1497	A1498	L1499	GLU	GLY	LYS	ARG	PRO	ALA	ALA	ALA	ARG	ARG	GLY	VAL	LYS	ARG	GLN	PRO	GLY	LYS	GLN	ALA
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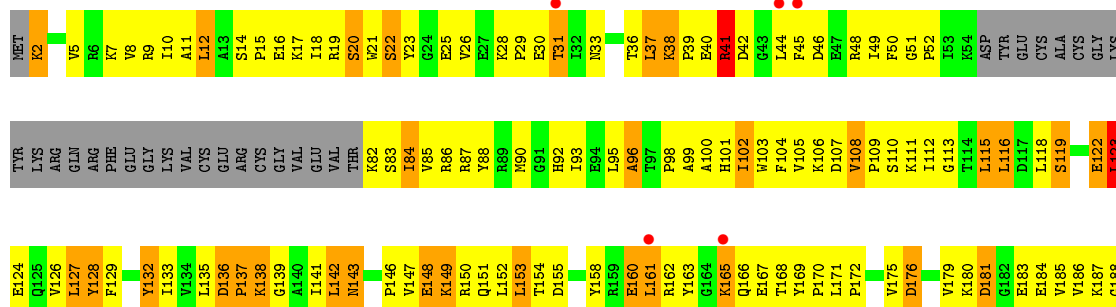
● Molecule 3: DNA-directed RNA polymerase subunit beta'



MET	K2	K3	E4	V5	R6	K7	V8	V9	I10	A11	L12	P15	E16	K17	I18	R19	S20	M21	S22	G24	E25	V26	E27	K28	P29	E30	T31	I32	M33	Y34	R35	T36	L37	K38	P39	E40	R41	D42	GLU	ARG	ARG	L44	F45	I49	F50	G51	P52	I55	ASP	L58	TYR	GLU	CYS	CYS	ALA	ALA	GLY	LYS	LYS	TYR
LYS	ARG	GLN	ARG	PHE	GLU	GLY	LYS	VAL	CYS	GLU	ARG	CYS	GLY	VAL	GLU	THR	K82	S83	I84	W85	R86	R87	Y88	R89	N90	G91	H92	A96	T97	A100	H101	I102	L103	F104	V105	K106	D107	V108	P109	S110	K111	I112	L115	G116	D117	L118	S119	A120	T121	L122	L123	E124	Q125	V126	L127					
Y128	F129	S130	K131	Y132	I133	V134	L135	D136	P137	K138	G139	I141	M143	P146	V147	E148	E149	K150	Q151	R152	L153	T154	E157	R159	E160	L161	R162	K165	Q166	A167	T168	Y169	P170	L171	P172	V175	D176	A177	L178	V179	K180	D181	G182	E183	E184	V185	V186	G188	Q189	L191										
A192	P193	S197	R198	L199	D200	G201	Y202	A203	L204	G199	R206	F207	P208	L142	M143	R210	R212	V213	E214	Y215	V216	LYS	GLU	ARG	ALA	ALA	GLY	PHE	LEU	ARG	LEU	PRO	VAL	GLY	LEU	LEU	GLY	GLY	LYS	ILE	VAL	GLU	GLN	PRO	GLU	ALA	ALA	LYS	PRO	TYR	LEU	PHE	ARG	MET						
GLU	GLU	GLY	VAL	VAL	ALA	GLU	LEU	LYS	GLU	GLY	ALA	PHE	LEU	VAL	LEU	ARG	ARG	GLU	ASP	GLU	PRO	VAL	ALA	THR	THR	GLU	PRO	PHE	LYS	ASP	TYR	ARG	GLY	THR	GLU	GLU	THR	VAL	LYS	ILE	VAL	GLU	GLN	PRO	LEU	ALA	ALA	GLU	LYS	PRO	LEU	ARG	LEU	MET						
PRO	ARG	GLN	VAL	VAL	ALA	ALA	GLN	VAL	VAL	GLU	GLU	GLY	GLY	THR	THR	TYR	LEU	THR	PHE	LEU	LEU	TRP	THR	D406	E407	A408	S410	T411	V415	Q348	P349	H350	N351	N352	V353	V355	P356	E357	G358	A359	R360	E362	D365	K366	I367	V368	A369	A370	E374	L438	E376									
V377	I378	A379	E382	G383	V384	V385	H386	S449	L387	H388	E389	P390	A391	L394	V395	V396	K397	A398	R399	V400	Y401	P402	F403	D406	E407	A408	S410	T411	V415	Q348	P349	H350	N351	N352	V353	V355	P356	E357	G358	A359	R360	E362	D365	K366	I367	V368	A369	A370	E374	L438	E376									
R441	H442	V443	V444	R445	V446	V447	E448	S449	L450	H451	I452	D453	A454	A454	E455	A460	I461	Q462	Q463	L464	L465	K466	E467	L468	L470	E474	K475	E476	L477	L478	E479	E480	M481	K482	H483	P484	S485	R488	R489	A490	R493	R494	R495	L496	V499	E500	V501	V502	E502	L503	P504	E506								
M507	R508	P509	E510	M511	M512	L513	L514	E515	E516	L517	P518	V519	L520	P521	P522	D523	L524	R525	PRO	MET	VAL	GLN	VAL	ASP	GLY	GLY	A536	T537	S538	D539	L540	N541	D542	L543	Y544	R545	R546	L547	I548	N549	R550	M551	L554	Q560	G561	A562	A563	E564	V565	V566	V567	R568	N569	E570	K571					
R572	M573	L574	Q575	E576	A577	V578	E579	A580	L581	L582	L583	D583	R586	R587	G588	A589	T592	M593	P594	L600	G601	S602	L603	T604	D605	I606	A672	L607	S608	G612	R613	F614	R615	G616	R617	L618	L619	G620	R621	R622	V623	D624	Y625	S629	V630	L631	V632	V633	G634	P635	G636	L637	K638	L639	H640	Q641				
C642	G643	L644	P645	M648	A649	L650	E651	K652	F653	L654	G654	K654	P655	F656	L657	L658	K659	K660	M661	E662	K664	G665	I666	A667	P668	M669	V670	G671	A672	A673	R674	R675	M676	L677	E678	R679	Q680	R681	K684	D685	E686	V687	A690	L691	E692	V694	I695	H696	G697	L698	V699	V700	L701	L702	R703	R704				
A705	F706	L707	T708	H709	R710	L711	G712	L713	Q714	A715	F716	Q717	P718	V719	L720	G721	E722	E723	T726	Q727	L728	H729	P730	L731	V732	C733	G734	D735	K736	F737	A738	D739	D743	Q744	M745	V749	F750	L751	S752	S753	L754	A755	Q756	L757	E758	A759	R760	I761	Q762	M763	L764	S765	V766	V767	A768	L769	G770	L770		
S771	G774	G775	L776	E777	P777	L778	A779	L780	K781	S782	R783	D784	I785	L786	L787	L788	L789	Y790	Y791	I792	E793	Q794	W795	R796	K797	E798	K799	R800	A801	G802	G803	L804	E805	F806	A807	R808	P809	E810	A811	A812	L813	A814	A815	H816	E817	R818	G819	E820	V821	A822	A825	G826	V829	A830	G831	R832	G833	E833		

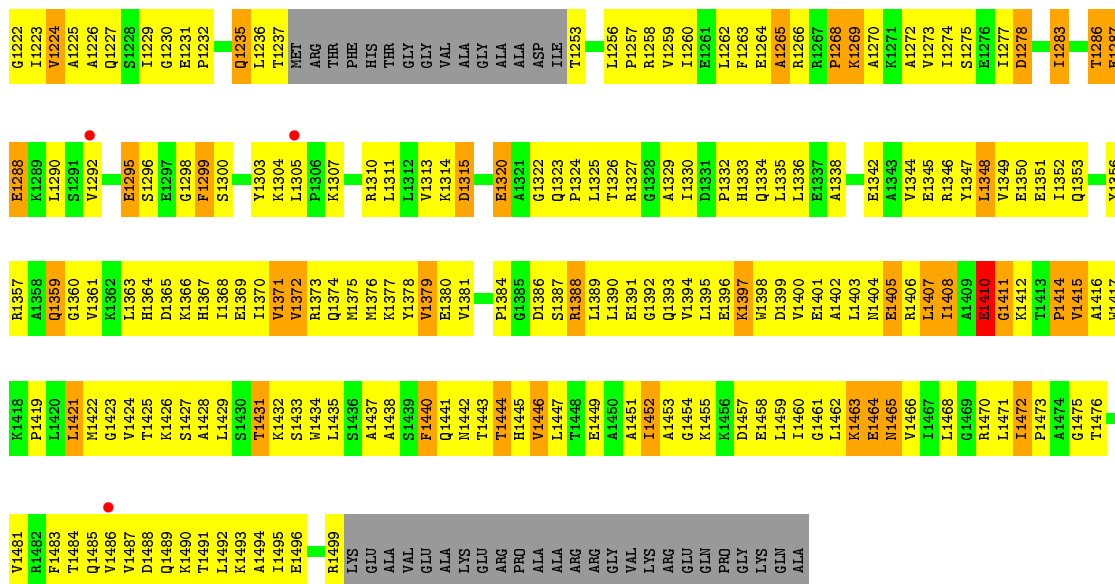


• Molecule 3: DNA-directed RNA polymerase subunit beta'

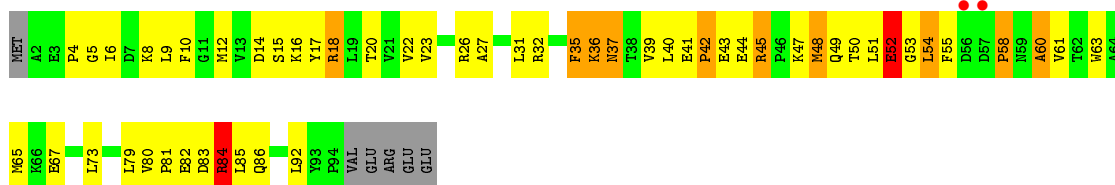




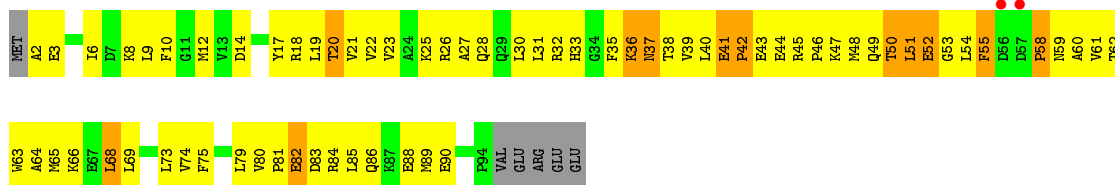
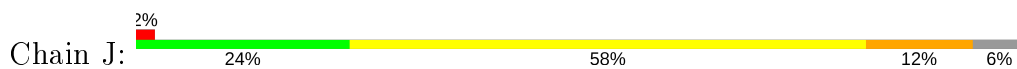




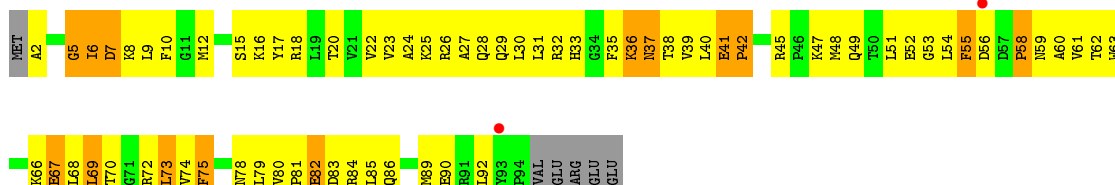
• Molecule 4: DNA-directed RNA polymerase subunit omega



• Molecule 4: DNA-directed RNA polymerase subunit omega

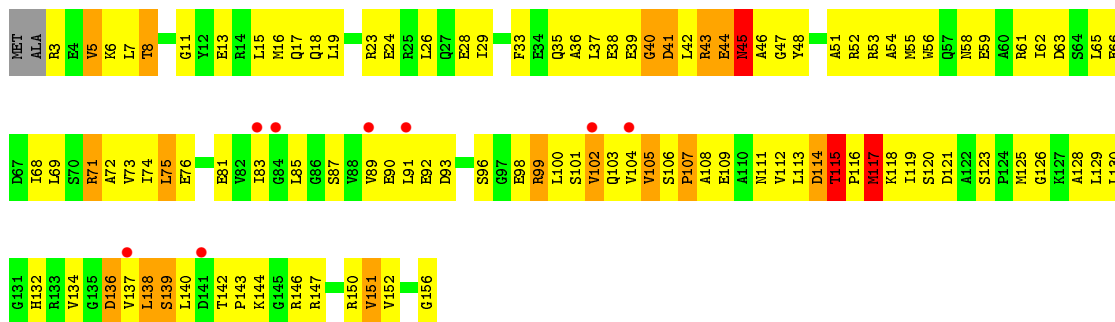


• Molecule 4: DNA-directed RNA polymerase subunit omega



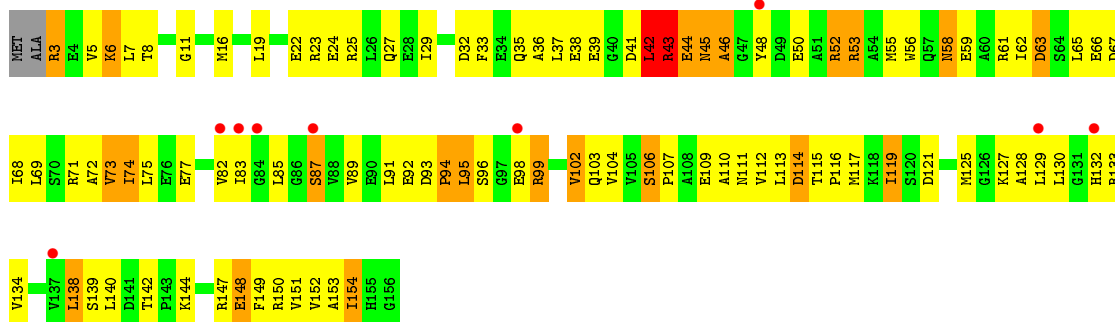
- Molecule 5: RNA cleavage stimulating factor (GreA/Gfh1 chimeric protein Gre-C1)

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



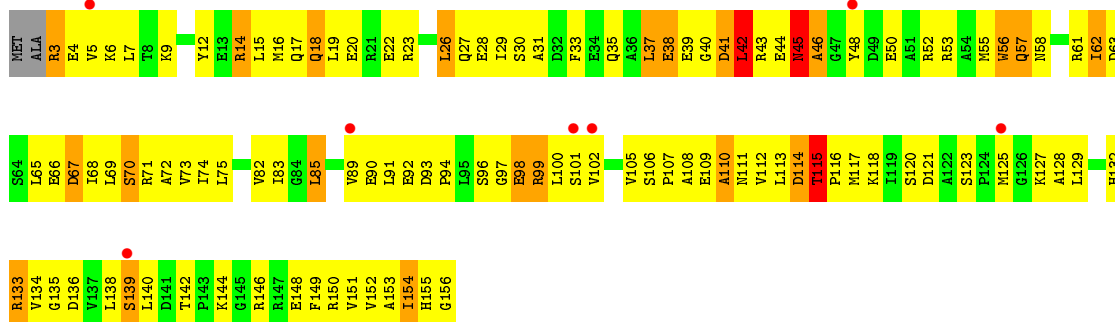
- Molecule 5: RNA cleavage stimulating factor (GreA/Gfh1 chimeric protein Gre-C1)

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: ZN, MG

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

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

There are no bond length outliers.

All (5) bond angle outliers are listed below:

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

There are no chirality outliers.

There are no planarity outliers.

## 5.2 Too-close contacts

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

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

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

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

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Y:41:ASP:OD1	5:Y:48:TYR:HB2	1.38	1.19
1:F:54:THR:HG22	1:F:158:ILE:HG13	1.26	1.17
2:H:983:ILE:HD12	3:I:944:THR:HA	1.23	1.16
1:G:99:LEU:HD13	1:G:142:VAL:HG23	1.29	1.13
1:K:35:THR:HG21	1:L:43:ILE:HD11	1.28	1.12
3:I:525:ARG:HB3	3:I:540:LEU:HD22	1.17	1.11
2:H:328:LEU:HD13	2:H:433:THR:HB	1.13	1.11
2:M: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:HH11	3:D:1029:ARG:HB3	1.12	1.09
5:Y:41:ASP:OD1	5:Y:48:TYR:CB	1.99	1.09
3:N:108:VAL:HB	3:N:109:PRO:HD3	1.33	1.09
2:H:64:LEU:HB2	2:H:359:MET:HG3	1.34	1.09
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
3:N:387:LEU:HD13	3:N:387:LEU:H	1.14	1.07
2:C:290:LEU:HB3	2:C:302:VAL:HG11	1.34	1.07
3:I:771:SER:HB3	3:I:778:LEU:HD21	1.27	1.07
3:N:1472:ILE:H	3:N:1472:ILE:HD13	1.20	1.07
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
3:D:168:THR:HA	3:D:394:LEU:HB3	1.33	1.04
2:C:328:LEU:HD13	2:C:433:THR:HB	1.37	1.04
3:D:538:SER:HB2	3:D:540:LEU:HD21	1.39	1.04
3:N:1115:THR:HG23	3:N:1189:ARG:HH21	1.22	1.04
2:H:939:ARG:HH12	2:H:981:GLU:HG3	1.22	1.04
3:N:1435:LEU:HD21	3:N:1468:LEU:HD21	1.37	1.04
3:N:807:ALA:H	3:N:832:ARG:HG2	1.19	1.03
2:H:12:VAL:HG13	2:H:13:ILE:H	1.23	1.03
1:K:112:ARG:HE	1:K:125:PRO:HB3	1.23	1.03
3:D:108:VAL:HB	3:D:109:PRO:HD3	1.37	1.03
3:I:705:ALA:HB3	3:I:706:PRO:HD3	1.35	1.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:6:ARG:HH21	3:I:1460:ILE:HG22	1.20	1.03
3:N:922:LEU:H	3:N:922:LEU:HD23	1.19	1.02
3:N:1209:LEU:HD23	3:N:1211:MET:H	1.22	1.02
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:1065:LEU:HD11	3:N:1069:GLU:HB3	1.38	1.02
3:N:843:PHE:HB2	3:N:866:VAL:HG22	1.42	1.02
2:C:708:TYR:O	2:C:825:VAL:HG12	1.59	1.01
3:N:1310:ARG:HB3	3:N:1327:ARG:HH21	1.23	1.01
3:D:1472:ILE:HD13	3:D:1472:ILE:H	1.20	1.01
2:H:640:ARG:HB2	2:H:642:ARG:HH21	1.24	1.01
4:J:25:LYS:HA	4:J:28:GLN:HE21	1.26	1.01
3:I:1476:THR:HG23	4:J:21:VAL:HG22	1.42	1.00
2:M:283:ILE:HG23	2:M:284:ARG:H	1.26	1.00
2:C:750:LYS:HZ2	2:C:751:PRO:HD3	1.26	1.00
2:C:918:LEU:HD11	2:C:968:LEU:HA	1.42	1.00
3:D:1320:GLU:H	3:D:1323:GLN:NE2	1.59	1.00
3:D:483:HIS:HB2	3:D:484:PRO:HD3	1.41	1.00
3:I:136:ASP:HB3	3:I:137:PRO:HD3	1.40	1.00
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:H	2:C:290:LEU:HD23	1.27	0.99
1:G:53:VAL:HA	1:G:144:VAL:HG22	1.41	0.99
3:D:1087:ARG:HE	3:D:1235:GLN:HA	1.26	0.98
3: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:HA	2:H:250:ARG:NH1	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:1120:VAL:HG23	3:D:1186:VAL:HB	1.46	0.98
3:D:800:LYS:HA	3:D:829:VAL:HG13	1.44	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:HB3	3:N:165:LYS:HZ2	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
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
1:G:67:THR:HG21	1:L:159:LYS:HE3	1.47	0.95
2:M:1095:LEU:HD22	3:N:603:LEU:HD22	1.46	0.95
2:M:336:VAL:HA	2:M:339:LEU:HD12	1.45	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
3:D:468:LEU:HD13	3:D:473:LEU:HD21	1.48	0.94
3:I:804:LEU:HD11	3:I:831:GLY:HA2	1.48	0.94
2:C:376:ARG:HB3	2:C:377:PRO:HD3	1.49	0.94
3:I:484:PRO:HB3	3:I:488:ARG:HE	1.29	0.94
3:I:1495:ILE:HD13	4:J:88:GLU:HG3	1.48	0.94
3: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:HA	5:X:44:GLU:OE1	1.68	0.93
3:D:468:LEU:HD22	3:D:473:LEU:HD11	1.47	0.93
2:C:874:LEU:HD13	3:D:783:ARG:HB2	1.50	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
3:D:1274:ILE:HA	3:D:1325:LEU:HD13	1.52	0.92
2:C:1109:VAL:HG11	3:D:5:VAL:HG13	1.50	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:HH11	2:M:142:ARG:HB3	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
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
1:G:80:LEU:HD11	3:I:867:ARG:HD2	1.50	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:1018:ASN:O	3:I:1022:VAL:HG23	1.71	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
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:1095:LEU:HD12	3:I:603:LEU:HD13	1.57	0.87
2:H:877:PRO:HB3	3:I:1023:MET:HE1	1.55	0.87
3:I:44:LEU:HD12	3:I:44:LEU:H	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:100:LEU:HD23	1:B:115:LEU:HD21	1.57	0.87
1:B:54:THR:HG21	1:B:143:ARG:HH21	1.40	0.87
3:D:1363:LEU:H	3:D:1363:LEU:HD23	1.39	0.87
3:D:947:ILE:O	3:D:947:ILE:HD12	1.75	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:157:ARG:HB3	2:H:176:VAL:HG21	1.57	0.87
2:H:154:ARG:NH2	2:H:178:PRO:HG2	1.89	0.87
2:H:333:ILE:H	2:H:465:GLY:HA3	1.38	0.87
3:I:358:GLY:H	3:I:385:VAL:HB	1.39	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:771:SER:HB3	3:I:778:LEU:CD2	2.04	0.87
2:H:987:ILE:HG23	3:I:948:THR:HG21	1.57	0.87
2: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:H	3:D:902:LEU:HD23	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:1217:ILE:H	3:N:1217:ILE:HD12	1.38	0.86
3:N:1493:LYS:HA	3:N:1493:LYS:HE2	1.56	0.86
3:N:661:MET:HE3	3:N:673:ALA:HB1	1.56	0.86
3:D:1122:LEU:HD11	3:D:1186:VAL:HG23	1.55	0.86
3:D:645:PRO:HB2	3:D:648:MET:HG3	1.58	0.86
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:1272:ALA:HA	3:N:1326:THR:HB	1.57	0.85
3:N:546:ARG:NH1	3:N:546:ARG:HB3	1.91	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:H	3:I:720:LEU:HD13	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:703:ASN:HD22	3:I:713:ILE:HG23	1.42	0.84
3:I:8:VAL:HG23	3:I:1459:LEU:HD11	1.59	0.84
3: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:1147:ARG:HB3	3:I:1188:VAL:HG21	1.60	0.84
3:I:825:ALA:HB1	3:I:829:VAL:HG21	1.56	0.84
2:M:136:ILE:HD12	2:M:136:ILE:H	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:1095:THR:HG23	3:D:1230:GLY:HA3	1.57	0.84
3:D:361:VAL:HG12	3:D:383:GLY:H	1.43	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:HA	2:H:10:ARG:HH11	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:HD12	3:I:600:LEU:H	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:HH11	2:H:383:ARG:HB2	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:H	3:N:720:LEU:HD13	1.43	0.83
3:D:1213:ARG:HH22	4:E:10:PHE:HB3	1.43	0.83
1:G:100:LEU:HB2	1:G:115:LEU:HD11	1.59	0.83
1:G:44:LEU:HD13	1:G:177:VAL:HG11	1.60	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:1036:ARG:HH21	3:I:1043:GLY:H	1.25	0.83
3:I:158:TYR:O	3:I:162:ARG:HB3	1.78	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:1032:PHE:HZ	2:M:1040:LEU:HD22	1.43	0.83
2:M:151:ASP:OD1	2:M:154:ARG:HB3	1.77	0.83
2:M:754:ILE:HD12	2:M:754:ILE:H	1.41	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:H	3:I:1166:LEU:HD23	1.44	0.82
3:N:1034:GLN:HA	3:N:1037:GLN:HE21	1.43	0.82
3:N:1166:LEU:HD23	3:N:1166:LEU:H	1.42	0.82
3:N:387:LEU:CD1	3:N:387:LEU:H	1.91	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:HE3	4:J:36:LYS:HA	1.61	0.82
2:H:800:VAL:HG13	2:H:826:TYR:O	1.79	0.82
2:H:98:LEU:HD22	2:H:98:LEU:N	1.92	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:524:VAL:HG11	2:H:528:GLU:HB2	1.60	0.82
2:H:53:PRO:HG3	2:H:67:ASP:OD1	1.80	0.82
2:H:939:ARG:NH1	2:H:981:GLU:HG3	1.93	0.82
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:835:SER:H	3:I:838:ARG:HH11	1.27	0.82
3:I:87:ARG:HB3	3:I:523:ASP:HB2	1.60	0.82
2:M:937:ASP:HB3	2:M:940:GLU:HG3	1.62	0.82
2:C:129:ILE:N	2:C:129:ILE:HD12	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:1200:VAL:HG12	3:D:1201:CYS:H	1.46	0.81
3:D:715:ALA:HB3	3:D:764:LEU:HA	1.61	0.81
2:H:1014:SER:HB3	2:H:1019:GLN:H	1.42	0.81
1:K:165:ILE:H	1:K:165:ILE:HD13	1.44	0.81
2:M:185:LYS:HE2	2:M:190:LYS:HD3	1.61	0.81
3:D:737:ASN:ND2	5:X:42:LEU:HD21	1.93	0.81
2:C:700:TYR:HB3	2:C:833:LEU:HD13	1.61	0.81
3:D:1102:THR:HA	3:D:1105:ILE:HD13	1.60	0.81
3:D:172:PRO:HG2	3:D:175:VAL:HB	1.63	0.81
2:M:1049:LEU:HD23	3:N:1472:ILE:HD12	1.62	0.81
3:D:162:ARG:HE	3:D:452:ILE:HG12	1.45	0.81
3:D:843:PHE:HB2	3:D:866:VAL:HG22	1.60	0.81
2:H:537:LYS:HE2	2:H:905:ILE:HD13	1.60	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:804:LEU:HD21	3:I:831:GLY:CA	2.10	0.81
2:M:872:ASN:HD21	2:M:874:LEU:HD12	1.44	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:CD2	2:C:290:LEU:H	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:HD13	3:D:720:LEU:H	1.46	0.81
1:L:123:MET:SD	1:L:123:MET:N	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:1102:THR:HA	3:N:1105:ILE:HD13	1.63	0.80
3:N:412:GLY:HA2	3:N:434:ARG:HE	1.47	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:172:ILE:H	2:C:172:ILE:HD12	1.45	0.80
2:C:73:LEU:N	2:C:73:LEU:HD12	1.97	0.80
2:C:876:VAL:H	2:C:877:PRO:HD2	1.46	0.80
1:G:219:ARG:NH1	1:G:219:ARG:HB3	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:HD13	2:C:94:LEU:O	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:H	1:G:99:LEU:HD12	1.46	0.80
2:C:89:THR:HA	2:C:129:ILE:O	1.82	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
3:N:708:LEU:HD12	3:N:708:LEU:H	1.45	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:1036:ARG:HH11	3:I:1036:ARG:HB3	1.48	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
1:K:88:ARG:HH11	1:K:88:ARG:HB3	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:HD12	3:I:947:ILE:H	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:1394:VAL:HB	3:D:1397:LYS:HG3	1.64	0.79
3:D:400:VAL:HG22	3:D:402:PRO:HD3	1.65	0.79
1:F:197:LEU:H	1:F:197:LEU:HD23	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:1209:LEU:HD23	3:N:1211:MET:N	1.97	0.79
3:N:168:THR:HG23	3:N:394:LEU:HD22	1.65	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:N	1:B:100:LEU:HD22	1.98	0.78
2:C:404:LEU:HD11	2:C:591:SER:HA	1.63	0.78
1:G:213:GLN:O	1:G:217:ILE:HG12	1.83	0.78
2: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:81:ASN:ND2	1:L:129:ILE:HA	1.97	0.78
1:L:45:LEU:HD11	1:L:177:VAL:HG22	1.64	0.78
2:M:129:ILE:HD13	2:M:134:ARG:HG3	1.65	0.78
3:N:387:LEU:N	3:N:387:LEU:HD13	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: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
3:D:96:ALA:HB3	3:D:554:LEU:HD23	1.65	0.78
2:H:542:VAL:HG12	2:H:546:LEU:HD21	1.66	0.78
3:I:1269:LYS:HG2	3:I:1270:ALA:N	1.98	0.78
3:I:782:SER:O	3:I:786:ILE:HG12	1.83	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: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: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: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:1147:ARG:HB2	3:D:1166:LEU:HD21	1.66	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
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:HD12	1:G:48:ILE:H	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
3:I:84:ILE:HG22	3:I:87:ARG:HH21	1.49	0.77
2:M:39:ARG:HE	2:M:39:ARG:HA	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:HH11	2:M:383:ARG:HB2	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:1000:MET:HG3	2:H:1001:VAL:H	1.49	0.77
2:H:983:ILE:CD1	3:I:944:THR:HA	2.12	0.77
2:M:140:ILE:HG22	2:M:333:ILE:HD12	1.66	0.77
4:O:54:LEU:HG	4:O:58:PRO:HB3	1.67	0.77
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:1108:ARG:HE	3:N:1199:GLY:HA3	1.50	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
2:C:611:ILE:HG13	2:C:625:LEU:HD11	1.64	0.77
3:D:1449:GLU:HA	3:D:1452:ILE:HD13	1.66	0.77
3:D:637:LEU:HD21	3:D:642:CYS:HA	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:HD12	3:I:873:LEU:H	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:O	1:B:115:LEU:HD12	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: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
2:H:328:LEU:HB2	2:H:433:THR:HG21	1.65	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:N:1286:THR:O	3:N:1287:GLU:HB3	1.85	0.76
3:N:704:ARG:NH1	3:N:705:ALA:H	1.84	0.76
3:I:1084:THR:HB	5:Y:43:ARG:HD3	1.68	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:140:MET:HE2	1:A:142:VAL:HG13	1.65	0.76
1:A:56:VAL:HA	1:A:141:GLU:O	1.85	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:1127:GLU:HB2	3:N:1133:ARG:HE	1.50	0.76
3:N:834:THR:OG1	3:N:838:ARG:HB2	1.85	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:N	2:C:997:LEU:HD22	2.02	0.75
3:D:403:PHE:HB2	3:D:423:ASP:OD1	1.86	0.75
3:I:677:LEU:HD12	3:I:680:GLN:HG2	1.68	0.75
3:N:470:LEU:HD12	3:N:470:LEU:H	1.51	0.75
3:N:1481:VAL:HG11	4:O:18:ARG:HA	1.67	0.75
1:A:161:ARG:HB2	1:A:161:ARG:NH1	2.01	0.75
1:F:57:TYR:O	1:F:140:MET:HA	1.86	0.75
1:G:158:ILE:O	1:G:166:PRO:HG3	1.86	0.75
1:G:85:LEU:HD12	1:G:86:VAL:H	1.51	0.75
2:H:597:ALA:HB2	2:H:655:LEU:HD21	1.69	0.75
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:H	1:B:227:ASN:HD22	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:HA	3:I:1493:LYS:HE2	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:1146:GLY:CA	3:I:1207:TYR:HB2	2.16	0.75
3:I:361:VAL:HG23	3:I:383:GLY:O	1.87	0.75
3:I:475:LYS:HA	3:I:478:LEU:HD12	1.67	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:1095:THR:O	3:D:1099:VAL:HG23	1.87	0.74
3:D:135:LEU:HD23	3:D:136:ASP:H	1.52	0.74
3:D:141:ILE:HG23	3:D:448:GLU:OE2	1.86	0.74
3:D:828:LYS:HG2	3:D:863:VAL:HG22	1.67	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:1122:LEU:HD13	3:D:1184:GLN:O	1.87	0.74
3:D:644:LEU:HD12	3:D:645:PRO:HD2	1.69	0.74
3: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:H	3:N:138:LYS:HD3	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:1264:GLU:OE2	3:N:1423:GLY:HA3	1.86	0.74
3:N:982:PHE:HE1	5:Z:117:MET:HB3	1.53	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:1052:MET:HE3	3:N:748:HIS:HB3	1.69	0.74
2:M:631:SER:HB3	2:M:635:THR:H	1.52	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:150:ARG:HH12	3:N:468:LEU:HD11	1.51	0.74
3:N:129:PHE:C	3:N:568:ARG:HH21	1.89	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:1364:HIS:CE1	3:D:1366:LYS:HG3	2.23	0.74
3:D:805:GLU:HA	3:D:832:ARG:HD2	1.70	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:1397:LYS:HB2	3:N:1397:LYS:HZ3	1.53	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
5:Z:29:ILE:HD12	5:Z:58:ASN:ND2	2.02	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
3:D:466:LYS:HG2	3:D:510:GLU:HG3	1.70	0.74
1:F:76:VAL:O	1:F:79:ILE:HG13	1.86	0.74
2:M:15:LEU:H	2:M:15:LEU:HD22	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:1029:ARG:NH1	3:D:1029:ARG:HB3	1.97	0.73
3:D:1229:ILE:O	3:D:1232:PRO:HD2	1.87	0.73
3:D:160:GLU:HG2	3:D:161:LEU:HD22	1.70	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:N	2:H:705:ILE:HD12	2.03	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
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
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:1381:VAL:HG23	3:N:1391:GLU:O	1.88	0.73
3:N:51:GLY:HA3	3:N:86:ARG:HG3	1.67	0.73
5:Y:6:LYS:HB3	5:Y:75:LEU:HD12	1.69	0.73
2:C:198:ARG:NH1	2:C:203:ASP:HA	2.03	0.73
2:C:50:GLU:OE2	2:C:345:ARG:HD2	1.88	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:1236:LEU:HB2	3:N:1256:LEU:HB2	1.70	0.73
3:N:860:LEU:HA	3:N:877:PRO:HB2	1.70	0.73
2:C:750:LYS:HA	2:C:750:LYS:HZ3	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:NZ	3:N:1397:LYS:HB2	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:HD23	2:M:790:LEU:O	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:HA	2:C:750:LYS:NZ	2.03	0.73
2:H:300:ASP:HB2	2:H:302:VAL:HG13	1.70	0.73
2:H:52:PHE:CD2	2:H:68:PHE:HB2	2.24	0.73
2:H:853:LEU:HD11	2:H:857:ASP:OD2	1.89	0.73
2:M:1016:ILE:HD13	2:M:1016:ILE:H	1.53	0.73
2:M:66:LEU:HD11	2:M:98:LEU:HD23	1.70	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:1183:ILE:HD13	3:D:1183:ILE:H	1.54	0.72
3:D:627:GLY:O	3:D:747:VAL:HG12	1.89	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:1201:CYS:SG	3:N:1204:CYS:HB2	2.28	0.72
3:N:1083:ASP:HB3	3:N:1237:THR:HG21	1.70	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:H	1:L:91:ASN:HD22	1.37	0.72
3:N:1065:LEU:HD11	3:N:1069:GLU:CB	2.18	0.72
1:A:161:ARG:HB2	1:A:161:ARG:HH11	1.54	0.72
1:A:44:LEU:HD11	1:A:199:ILE:HD13	1.70	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: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:K:58:ILE:CD1	1:K:140:MET:HB3	2.20	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:HD12	3:N:1368:ILE:H	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:1029:ARG:CB	3:D:1029:ARG:HH11	1.97	0.72
3:D:525:ARG:HB2	3:D:540:LEU:CD2	2.20	0.72
1: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:1271:LYS:HD2	3:D:1334:GLN:HE22	1.55	0.72
3:D:846:PRO:HB3	3:D:880:ILE:HD11	1.70	0.72
2:H:760:SER:HG	2:H:786:LYS:N	1.87	0.72
2:H:88:LEU:HD13	2:H:89:THR:H	1.55	0.72
2:M:300:ASP:HB2	2:M:302:VAL:HG13	1.72	0.72
3:N: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
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
2:M:1051:GLU:OE1	3:N:750:PRO:HA	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:1160:LEU:HD21	3:D:1164:ARG:HD2	1.72	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:I:804:LEU:HD21	3:I:831:GLY:N	2.04	0.71
2:M:224:GLU:O	2:M:228:ALA:HB3	1.90	0.71
2:M:30:LEU:HA	2:M:44:ILE:HD13	1.72	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:1205:TYR:CE2	3:D:1215:VAL:HG21	2.24	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:44:LEU:H	3:D:44:LEU:HD12	1.55	0.71
3:I:1156:LEU:HD13	3:I:1176:LYS:HE3	1.72	0.71
3:I:26:VAL:HG22	3:I:49:ILE:HD13	1.73	0.71
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
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:1081:VAL:HG13	2:C:1085:PHE:HD1	1.53	0.71
2:C:794:PRO:HB3	2:C:1027:PHE:CE1	2.26	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: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
3:D:864:VAL:HG12	3:D:865:THR:H	1.52	0.71
3:D:87:ARG:HB2	3:D:524:LEU:CD1	2.21	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:176:VAL:O	2:H:178:PRO:HD3	1.90	0.71
2:H:73:LEU:HD12	2:H:74:GLY:N	2.06	0.71
3:I:1209:LEU:HD12	3:I:1210:SER:H	1.55	0.71
3:I:581:LEU:H	3:I:581:LEU:HD23	1.53	0.71
2:M:374:ASN:N	2:M:374:ASN:HD22	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:1170:ASP:O	3:D:1174:LEU:HG	1.91	0.71
3:D:162:ARG:NE	3:D:452:ILE:HG12	2.06	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:703:ILE:H	2:H:703:ILE:HD12	1.55	0.71
2:H:569:VAL:HG11	2:H:996:LYS:HB2	1.73	0.71
2:M:611:ILE:HG13	2:M:625:LEU:HD11	1.73	0.71
3:N:165:LYS:NZ	3:N:165:LYS:HB3	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:1263:PHE:CE2	3:D:1371:VAL:HG11	2.26	0.71
3:D:1301:LYS:HZ2	3:D:1301:LYS:HA	1.52	0.71
3:D:365:ASP:H	3:D:379:ALA:HB2	1.56	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
2:H:98:LEU:HD22	2:H:98:LEU:H	1.55	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
3:D:1103:HIS:NE2	3:D:1463:LYS:HD2	2.06	0.71
2:C:1030:GLN:HA	3:D:622:ARG:HH11	1.53	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:1493:LYS:O	3:I:1497:GLU:HG2	1.90	0.70
3:I:150:ARG:NH2	3:I:468:LEU:HD11	2.04	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:1109:VAL:HG11	3:I:5:VAL:HG22	1.72	0.70
2:H:889:HIS:HE1	3:I:951:ILE:H	1.39	0.70
3:I:996:TRP:CD2	3:I:1056:PRO:HG2	2.26	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
2:M:212:GLY:HA3	2:M:218:VAL:HB	1.72	0.70
3:N:1095:THR:O	3:N:1099:VAL:HG23	1.92	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
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
1:F:99:LEU:HD22	1:F:99:LEU:H	1.56	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:1000:THR:O	3:N:1003:VAL:HG22	1.91	0.70
3:N:358:GLY:N	3:N:385:VAL:HB	2.06	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:1266:ARG:O	3:I:1268:PRO:HD3	1.91	0.70
3:I:153:LEU:HD12	3:I:153:LEU:H	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
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:O	1:F:115:LEU:HD12	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:NZ	2:M:928:LYS:HA	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:HD12	2:H:15:LEU:H	1.55	0.70
2:H:572:ILE:CD1	2:H:573:ARG:H	2.04	0.70
2:M:1015:LEU:H	2:M:1015:LEU:HD12	1.55	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
3:N:1082:ALA:O	3:N:1086:LEU:HD13	1.92	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
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:1379:VAL:HG21	3:N:1417:TRP:HB2	1.71	0.69
3:N:983:LEU:HD23	3:N:983:LEU:H	1.57	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:N	4:E:37:ASN:HD22	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: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
3:N:82:LYS:HG2	3:N:83:SER:H	1.56	0.69
1:G:19:GLU:HA	1:G:201:THR:HG23	1.74	0.69
2:H:1081:VAL:HB	2:H:1086:ARG:HH22	1.57	0.69
2:H:164:PRO:O	2:H:169:GLY:HA3	1.92	0.69
2:H:139:GLN:HE22	2:H:415:PRO:HD2	1.56	0.69
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:1183:ILE:N	3:D:1183:ILE:HD13	2.08	0.69
3:D:800:LYS:HA	3:D:829:VAL:CG1	2.21	0.69
1:F:35:THR:O	1:F:39:PRO:HG2	1.92	0.69

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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:HH11	2:H:831:ARG:HG2	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:1012:PRO:HB2	2:C:1021:LEU:O	1.92	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
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:1049:LEU:HD23	2:H:1050:GLN:N	2.08	0.69
2:H:674:VAL:HG12	2:H:990:GLY:O	1.91	0.69
3:I:1289:LYS:HE2	3:I:1306:PRO:HG3	1.74	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:HD13	3:I:951:ILE:O	1.92	0.69
2:M:1066:ALA:HA	2:M:1077:PRO:CD	2.21	0.69
2:M:326:ASP:HA	2:M:331:ARG:HD2	1.73	0.69
1:B:159:LYS:HD3	1:B:159:LYS:H	1.55	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
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
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:1115:THR:HG23	3:N:1189:ARG:NH2	2.05	0.69
3:N:185:VAL:HG21	3:N:203:ALA:HB3	1.75	0.69
5:Z:116:PRO:HD2	5:Z:118:LYS:NZ	2.07	0.69
2:C:1070:ILE:HD11	2:C:1076:VAL:HG12	1.75	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
2:H:1063:ARG:HD3	2:H:1064:ASN:N	2.07	0.69
2:H:344:PHE:HE2	2:H:378:LEU:HD21	1.57	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:136:ASP:HB3	3:I:137:PRO:CD	2.21	0.69
3:I:1426:LYS:HA	3:I:1429:LEU:HD22	1.75	0.69
3:I:466:LYS:HG2	3:I:510:GLU:HG2	1.74	0.69
3:I:710:ARG:NH2	3:I:1210:SER:HB2	2.07	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:882:PHE:CE2	3:N:906:GLN:HG3	2.28	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
2:C:794:PRO:HB3	2:C:1027:PHE:HE1	1.57	0.69
2:C:676:ILE:CG2	2:C:988:VAL:HG13	2.21	0.69
3:D:1465:ASN:HD21	3:D:1470:ARG:HB3	1.57	0.69
3:I:788:GLY:O	3:I:792:ILE:HG22	1.93	0.69
1:K:62:LEU:HD13	2:M:745:ILE:O	1.93	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
3:N:19:ARG:O	3:N:22:SER:HB3	1.93	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
1:B:25:LEU:HD23	1:B:28:LEU:HD11	1.74	0.69
2:C:1066:ALA:HA	2:C:1077:PRO:HD2	1.75	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
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:1462:LEU:O	3:N:1466:VAL:HG23	1.93	0.69
3:N:638:LYS:H	3:N:641:GLN:NE2	1.91	0.69
5:X:36:ALA:HA	5:X:39:GLU:CD	2.14	0.69
2:C:595:LEU:HD21	2:C:656:ALA:HB3	1.74	0.68
2:C:4:LYS:HE2	2:C:917:LEU:HD11	1.74	0.68
3:D:844:ALA:HB1	3:D:867:ARG:HH12	1.58	0.68
3:D:758:GLU:HB3	4:E:20:THR:HG21	1.75	0.68
1:G:50:GLY:HA3	1:G:173:PRO:HD3	1.75	0.68
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:1172:HIS:HA	3:D:1175:ILE:HD12	1.76	0.68
3:D:704:ARG:NE	3:D:705:ALA:H	1.91	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:O	3:I:1041:LEU:HD12	1.93	0.68
1:L:45:LEU:HD21	1:L:177:VAL:HG13	1.75	0.68
2:M:290:LEU:H	2:M:290:LEU:HD23	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:406:ASP:O	3:D:422:ALA:HB1	1.93	0.68
3:D:95:LEU:HD13	3:D:96:ALA:N	2.07	0.68
4:E:18:ARG:O	4:E:22:VAL:HG23	1.93	0.68
2:H:260:LEU:HB3	2:H:291:ALA:HB1	1.75	0.68
2:H:30:LEU:HD23	2:H:340:MET:HE1	1.74	0.68
3:I:356:PRO:HG2	3:I:359:ALA:HB2	1.76	0.68
2:M:134:ARG:NH1	2:M:134:ARG:HB3	2.09	0.68
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:1490:LYS:HB2	3:N:1490:LYS:HZ2	1.56	0.68
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
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
3:D:550:ARG:HG2	3:D:553:ARG:HH21	1.58	0.68
2:C:1030:GLN:HA	3:D:622:ARG:NH1	2.09	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:HD13	1:L:138:LEU:O	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:1245:GLY:O	3:D:1246:VAL:HG22	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
2:H:34:VAL:HG12	2:H:35:PRO:HD2	1.76	0.68
3:I:1054:GLU:O	3:I:1056:PRO:HD3	1.93	0.68
3:I:673:ALA:O	3:I:676:MET:HB2	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:1369:GLU:O	3:N:1372:VAL:HG13	1.93	0.68
3:N:793:THR:HG21	3:N:906:GLN:CG	2.23	0.68
5:X:105:VAL:HG21	5:X:109:GLU:HG2	1.75	0.68
5:X:83:ILE:HD13	5:X:89:VAL:HG21	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:1148:VAL:HG13	3:N:1148:VAL:O	1.94	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:165:LYS:HD2	3:N:166:GLN:N	2.08	0.68
3:N:704:ARG:HD3	3:N:738:ALA:HB2	1.74	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
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
2:C:48:PHE:O	2:C:52:PHE:HB2	1.94	0.68
1:A:65:PHE:CZ	2:C:830:LYS:HG3	2.29	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:1029:GLY:HA2	3:N:626:SER:OG	1.93	0.68
2:M:368:THR:CB	2:M:369:PRO:HD3	2.14	0.68
3:N:845:ASN:ND2	3:N:848:GLU:H	1.91	0.68
3:N:860:LEU:HB2	3:N:861:GLN:HE21	1.59	0.68
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:1104:GLU:HB2	2:C:1105:LYS:HE3	1.76	0.68
2:C:343:GLN:HG2	2:C:385:PHE:HB2	1.76	0.68
3:D:484:PRO:HB3	3:D:488:ARG:CZ	2.24	0.68
1:G:185:ARG:HD2	1:G:186:LEU:H	1.57	0.68
1:F:42:ARG:HD3	1:G:35:THR:HG23	1.74	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:1361:VAL:HG12	3:I:1363:LEU:HD22	1.75	0.67
3:I:150:ARG:NH1	3:I:468:LEU:HD11	2.08	0.67
2:C:1081:VAL:HG13	2:C:1085:PHE:CD1	2.29	0.67
2:C:151:ASP:CG	2:C:152:PRO:HD2	2.14	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:139:GLN:NE2	2:C:414:GLY:HA3	2.09	0.67
2:C:40:GLU:O	2:C:41:ASN:HB2	1.93	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: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
2:C:1008:ARG:O	3:D:652:LEU:HG	1.95	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: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
2:M:1:MET:SD	2:M:900:ARG:HG3	2.34	0.67
3:N:963:TYR:CE2	3:N:1002:LYS:HD3	2.30	0.67
3:N:792:ILE:HG21	3:N:941:PHE:CD1	2.29	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: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
3:I:179:VAL:HG21	3:I:191:LEU:HD23	1.75	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:1100:GLN:HB2	3:I:9:ARG:HB3	1.75	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
3:I:1020:LEU:HA	3:I:1023:MET:CE	2.25	0.67
3:I:187:LYS:HG2	3:I:200:ASP:N	2.10	0.67
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: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
3:I:15:PRO:HA	3:I:18:ILE:HD12	1.76	0.67
4:J:37:ASN:HD22	4:J:37:ASN:N	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: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
2:H:3:ILE:HB	2:H:902:ILE:HD11	1.76	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: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
3:D:133:ILE:HG23	3:D:455:ARG:O	1.94	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
3:I:1277:ILE:HD11	3:I:1301:LYS:NZ	2.10	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
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:HD12	3:D:142:LEU:H	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: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
1:F:73:GLU:HB2	1:F:78:ILE:HD11	1.75	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:1036:ARG:NH2	3:I:1043:GLY:H	1.92	0.67
3:I:126:VAL:O	3:I:130:SER:HB3	1.95	0.67
1:L:156:HIS:ND1	1:L:158:ILE:HG12	2.09	0.67
1:L:159:LYS:N	1:L:159:LYS:HE2	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
3:D:1200:VAL:HG12	3:D:1201:CYS:N	2.10	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
2:C:1072:LYS:O	3:D:659:LYS:NZ	2.28	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:1305:LEU:HD22	3:I:1311:LEU:HD11	1.76	0.67
3:I:844:ALA:O	3:I:867:ARG:HG2	1.94	0.67
2:M:1037:VAL:HG13	2:M:1049:LEU:HD11	1.77	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
3:N:138:LYS:N	3:N:138:LYS:HD3	2.08	0.67
3:N:1265:ALA:HB2	3:N:1421:LEU:HD11	1.76	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
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:1330:ILE:HG22	3:D:1331:ASP:N	2.09	0.66
3:D:847:ASP:HA	3:D:850:LEU:HD13	1.78	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:HD13	2:M:722:ILE:O	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:HH11	3:D:615:ARG:HB2	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:HH11	1:G:30:ARG:HB3	1.60	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
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
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:106:PRO:HG3	1:K:133:GLU:O	1.94	0.66
1:K:102:LYS:HD3	1:K:139:ASN:OD1	1.95	0.66
1:K:189:ARG:HG3	1:K:189:ARG:HH11	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:1036:ARG:HH21	3:I:1043:GLY:N	1.92	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
2:M:710:ILE:HD11	2:M:758:ARG:CZ	2.24	0.66
3:D:628:ARG:HG3	3:D:628:ARG:HH11	1.60	0.66
1:F:73:GLU:HB2	1:F:78:ILE:CD1	2.26	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
1:F:12:THR:HA	1:G:229:GLN:HB2	1.77	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: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
3:N:471:GLU:O	3:N:475:LYS:HG3	1.96	0.66
1:A:142:VAL:HG23	1:A:142:VAL:O	1.95	0.66
1:B:138:LEU:HD22	1:B:139:ASN:N	2.11	0.66
1:B:19:GLU:HG3	1:B:201:THR:O	1.96	0.66
1:A:42:ARG:NH1	1:B:34:VAL:HB	2.09	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:1258:ARG:NE	3:D:1262:LEU:HD11	2.10	0.66
3:D:1197:ARG:HA	3:D:1396:GLU:HG3	1.76	0.66
3:D:551:ASN:O	3:D:555:LYS:HG3	1.96	0.66
2:H:724:ARG:NH2	2:H:734:LEU:HD13	2.10	0.66
3:I:1286:THR:O	3:I:1287:GLU:HB2	1.95	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
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:792:ILE:HD12	3:N:793:THR:N	2.09	0.66
3:N:776:GLU:OE1	3:N:912:LYS:HD3	1.94	0.66
1:A:72:LYS:HE3	2:C:644:VAL:HG12	1.77	0.66
2:C:1065:ALA:C	2:C:1077:PRO:HG2	2.15	0.66
2:C:605:LYS:HD3	2:C:610:ARG:NH1	2.10	0.66
2:C:87:ASP:HA	2:C:131:GLY:HA3	1.76	0.66
3:D:1381:VAL:HG23	3:D:1391:GLU:O	1.95	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
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:139:SER:HB3	5:Y:148:GLU:OE1	1.96	0.66
5:Y:41:ASP:OD1	5:Y:48:TYR:HB3	1.94	0.66
2:C:236:ILE:H	2:C:236:ILE:HD12	1.59	0.66
2:C:569:VAL:HG12	2:C:996:LYS:O	1.95	0.66
3:D:1242:HIS:O	3:D:1243:THR:HG22	1.96	0.66
3:D:707:THR:HG21	3:D:713:ILE:HD11	1.77	0.66
2:H:577:PRO:HA	2:H:671:ASN:HD21	1.61	0.66
2:H:994:ILE:HD12	2:H:994:ILE:N	2.11	0.66
3:I:136:ASP:CB	3:I:137:PRO:HD3	2.23	0.66
3:I:39:PRO:HG2	3:I:45:PHE:O	1.96	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:O	2:M:592:LEU:HD13	1.95	0.66
3:N:520:LEU:HG	3:N:521:PRO:HD2	1.78	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:94:LEU:HB3	2:C:116:GLY:O	1.96	0.66
2:C:939:ARG:HG3	2:C:975:TYR:CE2	2.31	0.66
3:D:907:GLU:HG2	3:D:1027:GLY:N	2.10	0.66
2:C:878:SER:HB3	3:D:1029:ARG:NH1	2.11	0.66
3:D:817:GLU:O	3:D:820:GLU:HB3	1.96	0.66
2:H:289:THR:O	2:H:291:ALA:N	2.29	0.66
3:I:1084:THR:CB	5:Y:43:ARG:HD3	2.26	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
4:J:25:LYS:HA	4:J:28:GLN:NE2	2.07	0.66
2:M:18:LEU:N	2:M:18:LEU:HD12	2.10	0.66
3:N:1171:VAL:O	3:N:1175:ILE:HD13	1.96	0.66
2:M:1042:ALA:HA	3:N:1220:ALA:HB3	1.78	0.66
4:O:5:GLY:HA3	4:O:8:LYS:HD2	1.77	0.66
2:C:148:PHE:HE2	2:C:310:LEU:HD13	1.61	0.66
2:C:83:CYS:HA	2:C:88:LEU:HB3	1.78	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:471:TYR:H	2:H:483:VAL:HG13	1.61	0.66
2:H:397:GLU:H	2:H:633:GLN:NE2	1.94	0.66
2:H:93:PRO:HA	2:H:117:HIS:ND1	2.11	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:L:159:LYS:H	1:L:159:LYS:HE2	1.61	0.66
1:K:43:ILE:HD11	1:L:35:THR:HG21	1.76	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
2:M:50:GLU:HG3	2:M:266:ARG:HD2	1.77	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:1102:THR:O	3:D:1222:GLY:HA3	1.95	0.65
3:D:119:SER:HB2	3:D:123:LEU:HB2	1.77	0.65
3:D:1274:ILE:HG22	3:D:1323:GLN:C	2.16	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
1:F:123:MET:C	1:F:125:PRO:HD3	2.16	0.65
1:F:99:LEU:N	1:F:99:LEU:HD22	2.11	0.65
1:G:80:LEU:HD21	3:I:867:ARG:NH1	2.11	0.65
2:H:1016:ILE:N	2:H:1016:ILE:HD13	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:H:599:GLU:HG3	2:H:600:ASP:N	2.10	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:90:LEU:HB3	1:B:119:ASP:HB3	1.79	0.65
1:B:85:LEU:CD1	1:B:124:ASN:HB3	2.22	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:1105:ILE:HD12	3:D:1105:ILE:N	2.11	0.65
3:D:1117:TYR:C	3:D:1118:ILE:HD12	2.16	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
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:1165:TYR:OH	3:I:1202:GLN:HG2	1.96	0.65
3:I:1102:THR:O	3:I:1222:GLY:HA3	1.95	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:O	3:D:53:ILE:HG13	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:SD	2:C:880:MET:N	2.68	0.65
3:D:786:ILE:HG21	3:D:1028:ALA:N	2.11	0.65
3:D:150:ARG:HH12	3:D:468:LEU:CD1	2.10	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:1406:ARG:HB2	3:I:1412:LYS:HE3	1.79	0.65
3:I:89:ARG:HG3	3:I:89:ARG:HH11	1.62	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:1490:LYS:HB2	3:N:1490:LYS:NZ	2.12	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
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:HD12	3:I:804:LEU:O	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:141:ILE:HG12	3:N:142:LEU:H	1.61	0.65
3:N:128:TYR:CE2	3:N:458:ALA:HA	2.32	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:261:ILE:H	2:C:261:ILE:HD12	1.61	0.65
2:C:258:TYR:CE2	2:C:290:LEU:HG	2.30	0.65
2:C:148:PHE:CE2	2:C:310:LEU:HD13	2.32	0.65
2:C:49:ARG:HH11	2:C:49:ARG:HB2	1.59	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: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
3:I:1462:LEU:HD23	3:I:1472:ILE:HB	1.78	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:925:GLU:HG3	3:I:926:LYS:H	1.62	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:1046:GLN:HA	3:N:1052:THR:HA	1.78	0.65
3:N:209:ARG:HG3	3:N:209:ARG:HH11	1.61	0.65
3:N:41:ARG:HD3	3:N:42:ASP:H	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
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:101:LEU:O	1:L:101:LEU:HD23	1.97	0.65
1:L:99:LEU:CD2	1:L:115:LEU:HD12	2.26	0.65
2:M:266:ARG:O	2:M:266:ARG:HD3	1.97	0.65
2:M:723:THR:HG23	2:M:725:ASP:HB3	1.79	0.65
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:1015:LEU:H	2:C:1015:LEU:HD12	1.62	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:H:1036:GLU:OE1	2:H:1036:GLU:N	2.30	0.65
2:H:159:ILE:O	2:H:159:ILE:HD12	1.96	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
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
1:L:185:ARG:HG3	3:N:720:LEU:HG	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:1237:THR:O	3:D:1238:MET:HB2	1.96	0.64
3:D:807:ALA:HA	3:D:833:GLU:OE1	1.97	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:1106:VAL:HG13	3:I:1219:GLU:O	1.98	0.64
3:I:470:LEU:HD12	3:I:503:LEU:HD23	1.79	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: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
2:C:3:ILE:O	2:C:3:ILE:HD12	1.97	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:1344:VAL:O	3:I:1348:LEU:HD13	1.96	0.64
3:I:806:PHE:H	3:I:832:ARG:CG	2.10	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: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
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
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:H	2:C:595:LEU:HD22	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
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:1058:ARG:HG2	3:N:1058:ARG:HH11	1.61	0.64
3:N:700:VAL:HG13	3:N:718:PRO:HG2	1.78	0.64
4:O:47:LYS:CA	4:O:54:LEU:HB3	2.28	0.64
3:D:982:PHE:HD1	5:X:117:MET:CE	2.11	0.64
2:C:1076:VAL:HG21	3:D:752:SER:HA	1.79	0.64
2:C:658:GLY:H	2:C:661:SER:HB3	1.63	0.64
3:D:1192:LEU:CD2	3:D:1369:GLU:HB3	2.25	0.64
3:D:820:GLU:HG3	3:D:836:VAL:HG11	1.79	0.64
3:D:53:ILE:HB	3:D:86:ARG:HH12	1.62	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:1476:THR:HG23	4:J:21:VAL:CG2	2.25	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
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
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
2:H:94:LEU:HD12	2:H:94:LEU:C	2.17	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
1:G:185:ARG:CG	3:I:720:LEU:HG	2.27	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:173:PRO:O	1:B:201:THR:HA	1.96	0.64
1:B:51:THR:HG21	1:B:87:VAL:CG2	2.28	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
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:C:1088:LEU:HD21	3:D:613:ARG:HB3	1.78	0.64
2:C:850:ALA:HA	3:D:632:VAL:CG1	2.28	0.64
3:D:650:LEU:HD13	3:D:688:TRP:CZ3	2.32	0.64
3:D:886:VAL:O	3:D:890:VAL:HG22	1.97	0.64
2: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
3:I:214:GLU:HB2	3:I:384:VAL:CG1	2.27	0.64
2:H:987:ILE:HG23	3:I:948:THR:CG2	2.26	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:1004:LYS:HG2	3:D:744:GLN:OE1	1.97	0.64
2:C:331:ARG:HH12	2:C:427:VAL:CG1	2.10	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:1290:LEU:HD13	3:N:1307:LYS:HA	1.80	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
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:1008:ARG:HG2	2:C:1009:SER:N	2.13	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
3:D:1493:LYS:HE3	3:D:1493:LYS:HA	1.78	0.64
3:D:159:ARG:HG3	2:H:209:ARG:NH1	2.12	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: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
3:I:358:GLY:N	3:I:385:VAL:HB	2.09	0.64
3:I:44:LEU:HD12	3:I:44:LEU:N	2.11	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:1003:VAL:O	3:N:1007:VAL:HG23	1.97	0.64
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
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:N	3:D:1363:LEU:HD23	2.11	0.64
2:H:263:ASP:CB	2:H:264:PRO:HD3	2.26	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
2:H:569:VAL:CG1	2:H:996:LYS:HB2	2.28	0.64
3:I:50:PHE:O	3:I:89:ARG:HD2	1.97	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
2:M:73:LEU:HB2	2:M:93:PRO:O	1.98	0.64
3:N:1435:LEU:CD2	3:N:1468:LEU:HD21	2.21	0.64
3:N:701:LEU:O	3:N:747:VAL:HG23	1.98	0.64
5:Z:127:LYS:HD3	5:Z:128:ALA:N	2.12	0.64
5:Z:35:GLN:HB3	5:Z:39:GLU:OE2	1.98	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:1046:GLN:HA	3:I:1052:THR:HA	1.80	0.64
3:I:137:PRO:HG2	3:I:453:ASP:H	1.63	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
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:C:987:ILE:HG23	3:D:948:THR:HG21	1.80	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:1426:LYS:HD3	3:I:1429:LEU:HD22	1.80	0.63
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
2:M:461:VAL:HG13	2:M:465:GLY:O	1.97	0.63
2:M:98:LEU:HD13	2:M:98:LEU:N	2.12	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:1097:LYS:HA	3:D:1100:ASP:OD2	1.99	0.63
3:D:1421:LEU:O	3:D:1421:LEU:HD12	1.97	0.63
3:D:139:GLY:H	3:D:147:VAL:HG21	1.64	0.63
3:D:804:LEU:HD12	3:D:804:LEU:N	2.13	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: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
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:902:LEU:H	3:I:902:LEU:HD23	1.63	0.63
3:I:793:THR:HG21	3:I:906:GLN:HG2	1.80	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:124:ASN:ND2	1:A:127:LEU:HD22	2.14	0.63
1:A:102:LYS:HB3	1:A:138:LEU:O	1.99	0.63
2:C:98:LEU:HD22	2:C:98:LEU:C	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:1058:ARG:HG2	3:N:1058:ARG:NH1	2.13	0.63
3:N:109:PRO:HB3	3:N:494:LYS:NZ	2.12	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:1487:VAL:HG11	3:D:1492:LEU:HD23	1.79	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:550:ARG:HG2	3:D:553:ARG:NH2	2.14	0.63
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
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: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
3:I:470:LEU:HB2	3:I:503:LEU:HD21	1.80	0.63
2:M:151:ASP:HB3	2:M:154:ARG:O	1.98	0.63
3:N:1310:ARG:CB	3:N:1327:ARG:HH21	2.04	0.63
3:N:650:LEU:HD12	3:N:691:LEU:HD13	1.80	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:1209:LEU:HD12	3:D:1215:VAL:HG13	1.80	0.63
3:D:133:ILE:O	3:D:152:LEU:HB2	1.98	0.63
3:D:147:VAL:HG22	3:D:149:LYS:H	1.62	0.63
2:H:1094:ALA:C	2:H:1095:LEU:HD13	2.17	0.63
3:I:1426:LYS:HD3	3:I:1429:LEU:CD2	2.28	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
1:L:162:ILE:HG13	1:L:163:ASN:N	2.12	0.63
3:N:631:ILE:HD13	3:N:631:ILE:H	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:1323:GLN:O	3:D:1325:LEU:HD12	1.98	0.63
3:D:809:PRO:O	3:D:812:ALA:HB3	1.98	0.63
3:D:8:VAL:HG12	3:D:1434:TRP:CH2	2.33	0.63
3:D:948:THR:C	3:D:949:ILE:HD12	2.18	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:153:LEU:HD12	3:I:153:LEU:N	2.12	0.63
3:I:30:GLU:HB3	3:I:40:GLU:HB3	1.81	0.63
2:M:1025:ALA:O	2:M:1026:GLN:HG3	1.98	0.63
2:M:256:TYR:CZ	2:M:261:ILE:HG13	2.34	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:783:ARG:HE	3:D:1029:ARG:HD2	1.61	0.63
3:D:135:LEU:HD11	3:D:147:VAL:CG2	2.29	0.63
2:H:1067:TYR:CE1	2:H:1071:ILE:HD11	2.34	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
3:I:1115:THR:O	3:I:1115:THR:HG22	1.98	0.63
3:I:1182:GLU:O	3:I:1183:ILE:HG23	1.98	0.63
3:I:465:LEU:HD22	3:I:509:PRO:HB2	1.81	0.63
3:I:125:GLN:HE22	3:I:587:ARG:HH21	1.47	0.63
3:I:811:GLU:HG2	3:I:815:ALA:HB2	1.81	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:1434:TRP:CE3	3:N:1457:ASP:HB2	2.34	0.63
3:N:800:LYS:HA	3:N:829:VAL:HG13	1.80	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:1043:TYR:HB3	3:D:763:MET:HE1	1.80	0.63
2:C:141:HIS:CB	2:C:418:LEU:HD23	2.27	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
3:D:1121:PRO:HD2	3:D:1346:ARG:HH21	1.64	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
1:F:225:PHE:CE2	1:G:25:LEU:HD22	2.34	0.63
2:H:1066:ALA:O	2:H:1070:ILE:HG12	1.98	0.63
2:H:203:ASP:HB2	2:H:206:THR:HG22	1.78	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
3:I:366:LYS:N	3:I:366:LYS:HD2	2.12	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:1283:ILE:HG22	3:D:1284:GLU:H	1.64	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
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:1263:PHE:HE2	3:N:1371:VAL:HG11	1.63	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
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:165:ILE:H	1:F:165:ILE:HD12	1.63	0.62
1:F:62:LEU:H	1:F:62:LEU:HD12	1.64	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: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
3:I:513:ILE:HD12	3:I:513:ILE:O	1.99	0.62
3:I:636:GLN:HE21	3:I:637:LEU:HB2	1.64	0.62
3:I:84:ILE:HG22	3:I:87:ARG:NH2	2.14	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:1377:LYS:O	3:N:1377:LYS:HG2	1.98	0.62
3:N:1197:ARG:HA	3:N:1396:GLU:HG3	1.80	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: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:C	2:C:94:LEU:HD22	2.20	0.62
3:D:1282:ARG:HH21	3:D:1315:ASP:HB3	1.62	0.62
3:D:971:LEU:HD13	3:D:995:LEU:HD23	1.81	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:261:ILE:HG13	2:H:262:ALA:H	1.64	0.62
2:H:69:LEU:HD12	2:H:110:GLU:HG3	1.81	0.62
3:I:1044:LEU:HD22	3:I:1053:PHE:HB3	1.81	0.62
3:I:895:VAL:HG13	3:I:921:ARG:HH12	1.64	0.62
1:K:96:THR:HG22	1:K:145:ASP:OD2	1.98	0.62
1:K:52:ALA:HB1	1:K:170:VAL:HG22	1.81	0.62
1:K:9:PRO:HG3	1:K:27:PRO:O	1.99	0.62
3:N:1093:TYR:O	3:N:1096:ARG:HB2	2.00	0.62
4:O:54:LEU:HG	4:O:58:PRO:HG3	1.81	0.62
3:N:1485:GLN:HE21	4:O:79:LEU:H	1.46	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:1029:GLY:O	3:D:622:ARG:HD2	1.99	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
3:D:1231:GLU:HB3	3:D:1232:PRO:HD3	1.81	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
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:CD1	3:I:44:LEU:H	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:O	2:C:66:LEU:HG	1.99	0.62
2:C:752:GLY:H	2:C:792:VAL:HB	1.63	0.62
3:D:1062:ARG:HD3	3:D:1062:ARG:O	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:1434:TRP:CZ3	3:I:1457:ASP:HB2	2.35	0.62
3:I:843:PHE:CE1	3:I:864:VAL:HG11	2.34	0.62
3:N:1256:LEU:HD22	3:N:1259:VAL:HB	1.81	0.62
3:N:600:LEU:H	3:N:600:LEU:CD1	2.12	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:152:PRO:HD2	1:A:155:LYS:HD2	1.82	0.62
1:A:85:LEU:HA	1:A:124:ASN:ND2	2.13	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:CB	1:G:219:ARG:HH11	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:1264:GLU:OE1	3:I:1425:THR:HB	2.00	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
1:K:25:LEU:HD23	1:K:28:LEU:HD21	1.82	0.62
2:M:1050:GLN:HA	2:M:1053:LEU:CG	2.30	0.62
2:M:39:ARG:NE	2:M:39:ARG:HA	2.15	0.62
3:N:1256:LEU:HD13	3:N:1256:LEU:C	2.20	0.62
3:N:887:ALA:HB1	3:N:893:GLU:HG3	1.82	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:99:LEU:HD23	1:L:115:LEU:HD12	1.82	0.62
1:L:58:ILE:N	1:L:58:ILE:HD12	2.14	0.62
2:M:1055:LEU:HG	2:M:1079:PRO:HG2	1.82	0.62
2:M:278:GLU:HG3	2:M:283:ILE:HD12	1.81	0.62
3:N:802:ALA:O	3:N:804:LEU:N	2.32	0.62
1:B:184:THR:O	1:B:192:LEU:HG	1.99	0.62
1:B:177:VAL:HG12	1:B:199:ILE:HG13	1.82	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:101:LEU:HD12	1:K:114:PHE:CD1	2.35	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
3:N:1344:VAL:O	3:N:1348:LEU:HD22	2.00	0.62
3:N:834:THR:HB	3:N:874:GLU:OE1	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:1262:LEU:HD21	3:D:1351:GLU:HG3	1.81	0.62
3:D:879:ARG:HH21	3:D:904:VAL:N	1.97	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:NH1	3:I:613:ARG:HA	2.15	0.62
3:N:1101:VAL:HG21	3:N:1424:VAL:HG23	1.82	0.62
3:D:1208:ASP:O	3:D:1215:VAL:HG22	1.99	0.62
3:D:563:PRO:HA	2:H:223:ASP:CB	2.27	0.62
3:D:785:ILE:HD12	3:D:785:ILE:H	1.64	0.62
3:D:814:ALA:HA	3:D:817:GLU:OE1	2.00	0.62
1:G:186:LEU:CB	1:G:192:LEU:HD11	2.29	0.62
1:G:195:LEU:HD22	1:G:196:THR:N	2.14	0.62
2:H:196:LEU:O	2:H:200:LEU:HG	2.00	0.62
2:H:165:LEU:HB3	2:H:265:ARG:HE	1.63	0.62
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:O	2:M:118:ILE:HG13	2.00	0.62
2:M:861:LEU:CD2	2:M:862:PRO:HD2	2.30	0.62
2:M:860:HIS:HA	2:M:866:PRO:HA	1.81	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:136:ASP:O	5:X:150:ARG:HA	1.99	0.62
5:X:61:ARG:O	5:X:65:LEU:HG	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:193:LEU:H	2:H:193:LEU:CD1	2.13	0.61
2:H:170:PRO:HG2	2:H:258:TYR:CE2	2.35	0.61
2:H:395:LYS:HE3	2:H:407:LYS:HE2	1.81	0.61
3:I:1166:LEU:N	3:I:1166:LEU:HD23	2.15	0.61
3:I:141:ILE:HD11	3:I:432:TYR:HB2	1.82	0.61
3:I:25:GLU:HB2	3:I:92:HIS:CE1	2.34	0.61
2:M:12:VAL:HG22	2:M:13:ILE:N	2.15	0.61
2:M:260:LEU:HB2	2:M:291:ALA:HB1	1.82	0.61
2:M:257:VAL:HG12	2:M:263:ASP:CG	2.20	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
2:M:8:ARG:HB2	2:M:907:ASP:OD1	1.99	0.61
3:N:1235:GLN:OE1	5:Z:42:LEU:HD13	2.00	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
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:1003:VAL:O	3:I:1007:VAL:HG23	2.01	0.61
3:I:26:VAL:HG22	3:I:49:ILE:CD1	2.29	0.61
3:I:465:LEU:HD22	3:I:509:PRO:O	1.99	0.61
3:I:1481:VAL:HG13	4:J:18:ARG:NH2	2.16	0.61
2:C:196:LEU:HG	2:C:238:LEU:HD11	1.80	0.61
2:C:73:LEU:HD23	2:C:94:LEU:CA	2.29	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:CD2	1:F:197:LEU:N	2.63	0.61
1:G:124:ASN:N	1:G:125:PRO:HD3	2.15	0.61
1:G:71:VAL:CG1	1:G:73:GLU:HG2	2.29	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:1155:VAL:HG13	3:N:1182:GLU:HB3	1.82	0.61
3:N:951:ILE:HG12	3:N:1062:ARG:HD3	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:252:LYS:HG2	2:C:252:LYS:O	1.98	0.61
2:C:50:GLU:HG2	2:C:51:THR:HG23	1.82	0.61
1:F:151:VAL:N	1:F:169:ALA:HB3	2.15	0.61
1:F:28:LEU:HD22	1:F:32:PHE:HB3	1.82	0.61
2:H: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
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
2:H:1076:VAL:CG2	3:I:752:SER:HA	2.31	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:1031:ARG:HG2	2:M:1032:PHE:H	1.65	0.61
2:M:545:ASN:OD1	2:M:905:ILE:HG12	2.00	0.61
3:N:1108:ARG:HG2	3:N:1108:ARG:O	2.00	0.61
3:N:481:MET:SD	3:N:493:ARG:HA	2.40	0.61
3:N:798:GLU:CD	3:N:828:LYS:HZ2	2.03	0.61
2:C: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:1068:GLU:HG2	2:H:1072:LYS:CD	2.30	0.61
2:H:329:GLY:CA	2:H:489:THR:HG23	2.30	0.61
3:I:1099:VAL:HG22	3:I:1226:ALA:HB1	1.82	0.61
3:I:15:PRO:HA	3:I:18:ILE:CD1	2.31	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:179:VAL:CG1	3:I:183:GLU:HB3	2.30	0.61
3:I:679:ARG:O	3:I:679:ARG:CZ	2.48	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
3:I:997:THR:HG21	5:Y:61:ARG:NH1	2.15	0.61
1:A:206:THR:H	1:A:209:GLU:HG3	1.65	0.61
1:A:79:ILE:HG13	1:A:80:LEU:N	2.14	0.61
2:C:1046:ALA:HB1	3:D:1471:LEU:HG	1.82	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:943:VAL:HG23	2:C:985:GLY:H	1.66	0.61
2:C:516:ARG:NH2	3:D:1067:VAL:HG23	2.15	0.61
3:D:1333:HIS:ND1	3:D:1421:LEU:HD11	2.15	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
2:H:1053:LEU:HD12	2:H:1054:THR:OG1	1.99	0.61
2:H:585:GLU:O	2:H:588:VAL:HG22	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:374:ASN:N	2:M:374:ASN:ND2	2.49	0.61
2:M:44:ILE:HD12	2:M:44:ILE:N	2.16	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:1042:ARG:HD3	3:D:1045:MET:SD	2.40	0.61
3:D:649:ALA:O	3:D:653:PHE:HB2	2.01	0.61
3:D:684:LYS:HD3	3:D:684:LYS:H	1.65	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
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
3:I:26:VAL:HG13	3:I:42:ASP:O	1.99	0.61
2:H:1107:ASN:HB3	3:I:2:LYS:HD2	1.83	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
2:M:1031:ARG:HH22	3:N:619:LEU:HD22	1.65	0.61
2:M:107:LEU:HD11	2:M:109:LYS:HB2	1.82	0.61
2:M:89:THR:HG21	2:M:383:ARG:NH2	2.16	0.61
3:N:1443:THR:O	3:N:1447:LEU:HD12	2.01	0.61
3:N:464:LEU:HD22	3:N:464:LEU:O	2.01	0.61
3:N:520:LEU:CD2	3:N:524:LEU:HD23	2.30	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:1490:LYS:NZ	4:E:39:VAL:HG12	2.15	0.61
3:D:890:VAL:HB	3:D:922:LEU:CD1	2.29	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: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:127:LEU:HG	3:N:128:TYR:N	2.16	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:103:ALA:H	1:A:138:LEU:HD23	1.66	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:83:LYS:HD3	1:A:167:VAL:HG12	1.82	0.61
2:C:441:VAL:HG23	2:C:544:THR:HG21	1.83	0.61
2:C:73:LEU:N	2:C:73:LEU:CD1	2.64	0.61
2:H:1013:TYR:HE1	2:H:1020:PRO:HG3	1.65	0.61
2:H:703:ILE:N	2:H:703:ILE:HD12	2.16	0.61
3:I:1381:VAL:HG13	3:I:1398:TRP:HH2	1.65	0.61
3:I:133:ILE:HD12	3:I:158:TYR:CE2	2.36	0.61
3:I:187:LYS:CE	3:I:199:LEU:HG	2.31	0.61
1:G:150:TYR:CE2	3:I:852:ALA:HB2	2.36	0.61
3:I:769:LEU:HD12	3:I:924:MET:HE3	1.83	0.61
4:J:59:ASN:HD21	4:J:61:VAL:CG2	2.13	0.61
1:K:99:LEU:H	1:K:99:LEU:HD12	1.65	0.61
1:K:35:THR:CG2	1:L:43:ILE:HD11	2.19	0.61
1:L:86:VAL:HG13	1:L:123:MET:SD	2.41	0.61
2:M:1101:THR:O	2:M:1109:VAL:HB	2.01	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
3:N:1147:ARG:O	3:N:1165:TYR:HA	2.00	0.61
3:N:148:GLU:HB3	3:N:151:GLN:HB3	1.83	0.61
3:N:162:ARG:C	3:N:162:ARG:HD3	2.20	0.61
2:M:1034:GLU:HB3	3:N:618:LEU:O	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:848:VAL:HG12	2:C:849:VAL:N	2.16	0.60
2:C:690:ILE:CG2	2:C:852:ILE:HG13	2.30	0.60
3:D:477:LEU:HD11	3:D:495:ARG:HG2	1.83	0.60
2:H:1021:LEU:HD21	3:I:622:ARG:NE	2.16	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
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:607:ASP:CB	2:M:610:ARG:HG2	2.31	0.60
2:M:571:LEU:HD23	2:M:700:TYR:HA	1.83	0.60
2:M:953:VAL:HG11	2:M:962:GLN:HB3	1.82	0.60
3:N:1209:LEU:HD12	3:N:1215:VAL:HG13	1.83	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

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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: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:729:HIS:CE1	3:D:731:LEU:HB2	2.36	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:1209:LEU:HG	3:I:1210:SER: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
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:1044:LEU:CD2	3:I:1053:PHE:HB3	2.31	0.60
3:I:106:LYS:HE2	3:I:106:LYS:HA	1.83	0.60
3:I:1447:LEU:H	3:I:1447:LEU:HD12	1.65	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
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:1093:TYR:CE1	3:I:1097:LYS:HD3	2.37	0.60
3:I:616:GLN:C	3:I:618:LEU:H	2.04	0.60
1:L:76:VAL:HA	1:L:79:ILE:CG2	2.31	0.60
2:M:1014:SER:HB3	2:M:1019:GLN:H	1.66	0.60
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
3:N:1054:GLU:O	3:N:1056:PRO:HD3	2.01	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
2:C:1033:GLY:O	2:C:1037:VAL:HG23	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
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:165:ILE:HG12	1:G:165:ILE:O	2.01	0.60
1:G:85:LEU:HD12	1:G:86:VAL:N	2.16	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
2:H:64:LEU:HD22	2:H:356:ARG:HA	1.83	0.60
3:I:1277:ILE:HD11	3:I:1301:LYS:HZ1	1.67	0.60
3:I:189:GLN:HG2	3:I:190:GLU:N	2.17	0.60
3:I:171:LEU:HD13	3:I:390:PRO:HG2	1.82	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:N	3:I:720:LEU:HD13	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:58:ILE:HD13	1:K:139:ASN:O	2.01	0.60
1:K:52:ALA:O	1:K:144:VAL:HG13	2.02	0.60
1:K:99:LEU:N	1:K:99:LEU:HD12	2.17	0.60
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:1008:ARG:HG3	2:H:1027:PHE:O	2.01	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
3:I:108:VAL:HB	3:I:109:PRO:CD	2.23	0.60
3:I:105:VAL:HG13	3:I:124:GLU:HG2	1.84	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:471:TYR:H	2:C:483:VAL:CG1	2.15	0.60
2:C:6:PHE:CD1	2:C:909:ALA:HB2	2.37	0.60
2:C:537:LYS:HE3	2:C:905:ILE:HD13	1.84	0.60
3:D:1067:VAL:HG23	3:D:1068:LEU:H	1.67	0.60
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
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
1:G:165:ILE:HD13	1:G:165:ILE:N	2.17	0.60
3:I:1036:ARG:NH1	3:I:1036:ARG:HB3	2.17	0.60
3:I:1256:LEU:HD12	3:I:1259:VAL:HG21	1.83	0.60
3:I:653:PHE:HE1	3:I:749:VAL:HG11	1.67	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:877:PRO:O	3:I:880:ILE:HG22	2.02	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: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
3:N:52:PRO:HD2	3:N:86:ARG:HE	1.66	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:113:VAL:CG1	2:H:373:VAL:HG21	2.32	0.60
2:H:1:MET:HG3	2:H:899:GLN:HA	1.83	0.60
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:1208:ASP:O	3:I:1215:VAL:HG22	2.02	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
2:M:12:VAL:HG13	2:M:13:ILE:N	2.14	0.60
2:M:683:ASN:ND2	2:M:683:ASN:N	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:HG3	3:I:675:ARG:HH11	1.67	0.60
1:K:137:ARG:HG3	1:K:137:ARG:HH11	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:1097:LYS:HA	3:N:1100:ASP:OD2	2.02	0.60
3:N:893:GLU:O	3:N:896:ALA:HB3	2.02	0.60
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:293:PHE:HA	2:C:298:PHE:HD2	1.67	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:139:GLN:O	2:C:333:ILE:HD13	2.02	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
3:D:1250:ALA:O	3:D:1251:ASP:CB	2.49	0.60
3:D:804:LEU:HD11	3:D:830:ALA:O	2.01	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:1146:GLY:HA3	3:I:1207:TYR:CB	2.29	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
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
2:C:879:ARG:NH2	5:X:41:ASP:OD2	2.35	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:O	3:I:394:LEU:HD12	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:1147:ARG:O	3:I:1165:TYR:HA	2.03	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:52:PRO:C	3:I:86:ARG:HE	2.05	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: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:H:328:LEU:C	2:H:330:ASN:H	2.05	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:HG3	3:N:1108:ARG:HH11	1.67	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
5:Y:5:VAL:HB	5:Y:72:ALA:HA	1.84	0.59
2:C:159:ILE:HD12	2:C:159:ILE:O	2.01	0.59
2:C:64:LEU:CD1	2:C:372:LEU:HD21	2.32	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: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
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:696:HIS:NE2	4:J:54:LEU:HD11	2.17	0.59
2:M:1077:PRO:O	2:M:1079:PRO:HD3	2.02	0.59
2:M:1104:GLU:HB2	2:M:1105:LYS:HE2	1.85	0.59
2:M:292:ARG:HG2	2:M:299:LYS:HG2	1.84	0.59
2:M:744:ARG:HG3	2:M:747:ALA:HB2	1.83	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:700:TYR:O	2:M:833:LEU:HD13	2.03	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: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: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: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:N	1:G:99:LEU:HD12	2.18	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:1211:MET:CG	3:I:1212:ALA:H	2.12	0.59
3:I:613:ARG:HD3	3:I:613:ARG:O	2.02	0.59
1:G:190:THR:HB	3:I:722:GLU:OE1	2.02	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:HD12	2:M:994:ILE:H	1.67	0.59
3:N:708:LEU:N	3:N:708:LEU:HD12	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:124:ASN:HD21	1:A:127:LEU:HD22	1.68	0.59
1:A:90:LEU:HB2	1:A:119:ASP:OD2	2.02	0.59
2:C:439:CYS:HB3	2:C:442:GLU:HB2	1.85	0.59
3: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
3:D:119:SER:H	3:D:123:LEU:CD2	2.12	0.59
3:D:1488:ASP:HB3	4:E:26:ARG:NH2	2.17	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:695:ILE:HG23	3:D:696:HIS:H	1.66	0.59
2:H:751:PRO:HG3	2:H:796:GLU:HA	1.84	0.59
3:I:1258:ARG:CZ	3:I:1262:LEU:HD11	2.32	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
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:1330:ILE:HD13	3:N:1347:TYR:OH	2.03	0.59
3:N:879:ARG:HH22	3:N:905:PRO:HG3	1.67	0.59
5:Z:26:LEU:O	5:Z:26:LEU:HD12	2.02	0.59
1:A:138:LEU:HD12	1:A:138:LEU:C	2.22	0.59
2:C:904:PRO:HB2	2:C:907:ASP:HB3	1.83	0.59
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:1406:ARG:HD2	3:D:1412:LYS:HG2	1.84	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
1:F:57:TYR:HB2	1:F:164:ALA:HB2	1.84	0.59
2:H:1068:GLU:HG2	2:H:1072:LYS:HD3	1.84	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
1:F:63:HIS:NE2	2:H:801:VAL:HG23	2.18	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:HD12	2:M:496:ILE:N	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:1376:MET:O	3:N:1395:LEU:HD12	2.03	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:137:PRO:HG2	3:N:453:ASP:N	2.18	0.59
3:N:351:MET:HG3	3:N:370:ALA:HB2	1.83	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:994:ILE:HD12	2:C:994:ILE:H	1.68	0.59
2:C:9:ILE:HG12	2:C:907:ASP:OD2	2.02	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:HD22	3:D:720:LEU:H	1.68	0.59
3:D:850:LEU:CD1	3:D:850:LEU:H	2.12	0.59
3:D:984:THR:HG22	3:D:987:GLU:CG	2.33	0.59
2:H:1013:TYR:CE2	2:H:1060:ILE:HG22	2.37	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
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
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
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:486:ARG:NH1	3:D:486:ARG:HB2	2.18	0.59
3:D:97:THR:HG22	3:D:554:LEU:HD21	1.85	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:1092:LEU:CD1	2:M:1099:VAL:HG21	2.25	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:48:PHE:O	2:M:52:PHE:HB2	2.02	0.59
2:M:922:PHE:HB2	2:M:967:PHE:CD2	2.38	0.59
3:N:112:ILE:HD11	3:N:465:LEU:HD21	1.85	0.59
3:N:1330:ILE:HD13	3:N:1347:TYR:CE1	2.38	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
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:1095:THR:CG2	3:D:1230:GLY:HA3	2.31	0.58
3:D:409:VAL:HG11	3:D:435:VAL:HG11	1.82	0.58
3:D:162:ARG:NE	3:D:452:ILE:HG23	2.17	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
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:1089:VAL:HG11	2:C:1111:ILE:HD13	1.83	0.58
2:C:575:GLN:NE2	2:C:671:ASN:H	2.01	0.58
2:C:589:ARG:O	2:C:592:LEU:HD23	2.03	0.58
2:C:577:PRO:HG3	2:C:993:PHE:CE1	2.38	0.58
3:D:483:HIS:HB2	3:D:484:PRO:CD	2.27	0.58
2:H:193:LEU:N	2:H:193:LEU:HD12	2.18	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:831:ARG:NH1	2:H:831:ARG:HG2	2.16	0.58
3: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:455:LEU:HD22	2:M:456:ALA:O	2.03	0.58
2:M:89:THR:O	2:M:91:GLN:HG3	2.03	0.58
3:N:112:ILE:CD1	3:N:115:LEU:HD13	2.33	0.58
3:N:1463:LYS:O	3:N:1466:VAL:HB	2.02	0.58
3:N:180:LYS:HA	3:N:387:LEU:HD21	1.85	0.58
3:N:141:ILE:HD12	3:N:448:GLU:OE2	2.02	0.58
3:N:639:LEU:HD13	3:N:640:HIS:H	1.69	0.58
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:1211:MET:HG2	3:I:1212:ALA:N	2.17	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
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:1348:LEU:O	3:N:1352:ILE:HG12	2.02	0.58
3:N:205:TYR:HA	3:N:393:ILE:HG13	1.86	0.58
3:N:861:GLN:H	3:N:861:GLN:NE2	2.01	0.58
3:N:789:LEU:CD1	3:N:911:LEU:HD21	2.33	0.58
3:N:992:ILE:CG2	3:N:996:TRP:HE1	2.16	0.58
5:Y:7:LEU:O	5:Y:74:ILE:HD12	2.04	0.58
2:C:151:ASP:OD1	2:C:154:ARG:HB2	2.03	0.58
2:C:135:VAL:O	2:C:392:SER:HA	2.04	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:101:LEU:HD23	1:F:102:LYS:N	2.18	0.58
1:F:85:LEU:HD12	1:F:86:VAL:H	1.69	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:1155:VAL:CG1	3:N:1177:ALA:HB1	2.34	0.58
3:N:210:ARG:HD2	3:N:388:HIS:HB2	1.84	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:395:VAL:O	3:N:396:VAL:HG13	2.02	0.58
5:Z:111:ASN:HD21	5:Z:113:LEU:HD12	1.67	0.58
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:1008:ARG:HH12	3:D:624:ASP:HB3	1.67	0.58
2:C:163:ILE:HD12	2:C:171:TRP:NE1	2.18	0.58
2:C:47:ALA:O	2:C:50:GLU:HB3	2.03	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
3:D:139:GLY:H	3:D:147:VAL:CG2	2.16	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
3:N:829:VAL:O	3:N:835:SER:HB2	2.04	0.58
2:M:1061:GLU:OE2	3:N:84:ILE:HD12	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:1290:LEU:HD13	3:I:1307:LYS:HA	1.85	0.58
3:I:859:ASP:HB2	3:I:862:ASP:OD1	2.03	0.58
2:M:304:LEU:HB3	2:M:305:PRO:HD3	1.86	0.58
2:M:52:PHE:CD2	2:M:68:PHE:HB2	2.38	0.58
3:N:1134:LEU:O	3:N:1134:LEU:HD23	2.04	0.58
3:N:123:LEU:O	3:N:127:LEU:HD23	2.04	0.58
3:N:1485:GLN:CG	4:O:79:LEU:HB2	2.33	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
2:M:1083:GLU:CD	3:N:87:ARG:HH21	2.07	0.58
3:N:926:LYS:HA	3:N:929:ARG:HD2	1.84	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)
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
1:A:65:PHE:HZ	2:C:830:LYS:HG3	1.67	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:636:ALA:O	2:H:637:LEU:HD23	2.03	0.58
2:H:68:PHE:O	2:H:69:LEU:HD23	2.04	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:1026:SER:C	3:D:1028:ALA:H	2.07	0.58
3:D:112:ILE:O	3:D:112:ILE:HD13	2.03	0.58
1:F:151:VAL:H	1:F:169:ALA:HB3	1.69	0.58
1:F:36:LEU:C	1:F:39:PRO:HD2	2.24	0.58
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: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
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
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:HD12	2:C:21:ILE:H	1.68	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:374:ASN:ND2	2:C:374:ASN:N	2.46	0.58
2:C:140:ILE:HG13	2:C:412:ALA:HA	1.86	0.58
2:C:417:GLY:C	2:C:418:LEU:HD12	2.24	0.58
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:CD1	1:G:48:ILE:H	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: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
1:K:67:THR:HG22	2:M:627:ARG:CZ	2.34	0.58
2:M:974:LEU:HD23	2:M:983:ILE:HD11	1.84	0.58
2:M:838:LYS:O	2:M:997:LEU:HD22	2.03	0.58
3:N:1367:HIS:O	3:N:1371:VAL:HG23	2.03	0.58
3:N:176:ASP:HA	3:N:389:GLU:HG2	1.86	0.58
3:N:910:SER:OG	3:N:911:LEU:HD12	2.03	0.58
3:N:760:ARG:HH12	4:O:59:ASN:ND2	2.02	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:91:LEU:HD23	5:Z:151:VAL:HG22	1.86	0.58
5:Z:45:ASN:HB3	5:Z:48:TYR:CB	2.34	0.58
1:A:100:LEU:HD23	1:A:101:LEU:H	1.69	0.58
2:C:265:ARG:HB3	2:C:267:TYR:CE2	2.39	0.58
2:C:290:LEU:N	2:C:290:LEU:HD23	2.10	0.58
2:C:300:ASP:HB2	2:C:302:VAL:HG12	1.85	0.58
2:C:167:LYS:HD2	2:C:415:PRO:HB3	1.86	0.58
2:C:55:GLU:HA	2:C:64:LEU:O	2.04	0.58
2:C:755:LEU:HD21	2:C:792:VAL:HG22	1.86	0.58
2:C:676:ILE:HD11	2:C:873:PRO:HA	1.86	0.58
3:D:1310:ARG:HB3	3:D:1310:ARG:NH1	2.19	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
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:1012:PRO:HB2	2:H:1021:LEU:O	2.04	0.58
2:H:118:ILE:HD13	2:H:118:ILE:N	2.11	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:1041:LEU:HB2	3:N:1059:SER:O	2.04	0.58
3:N:420:VAL:HG11	3:N:424:GLY: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:477:GLY:O	2:C:508:ILE:HG13	2.04	0.57
2:C:474:VAL:HG12	2:C:531:PHE:HA	1.86	0.57
2: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:1088:LEU:O	2:H:1092:LEU:HG	2.04	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
3:I:1394:VAL:HB	3:I:1397:LYS:HG3	1.86	0.57
3:I:89:ARG:NH1	3:I:89:ARG:HG3	2.18	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: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
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
1:A:35:THR:HG23	1:B:39:PRO:HA	1.86	0.57
1:B:106:PRO:HD3	1:B:134:GLU:HA	1.85	0.57
1:B:64:GLU:HG3	1:B:64:GLU:O	2.03	0.57
2:C:970:GLY:O	2:C:988:VAL:HA	2.04	0.57
3:D:1000:THR:O	3:D:1003:VAL:HG12	2.04	0.57
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
3:D:128:TYR:CE2	3:D:458:ALA:HA	2.39	0.57
2:C:1006:HIS:H	3:D:628:ARG:NH1	2.02	0.57
3:D:703:ASN:N	3:D:745:MET:HE2	2.18	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:802:ALA:O	3:D:804:LEU:N	2.36	0.57
3:D:902:LEU:CD2	3:D:902:LEU:H	2.14	0.57
1:G:161:ARG:HD2	1:G:161:ARG:N	2.19	0.57
1:G:59:GLU:HB2	1:G:137:ARG:HH12	1.69	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
3:I:111:LYS:NZ	3:I:1449:GLU:HG3	2.18	0.57
2:H:1009:SER:HB2	3:I:652:LEU:HA	1.85	0.57
2:H:1073:GLY:HA3	3:I:659:LYS:HE2	1.85	0.57
1:L:124:ASN:N	1:L:125:PRO:HD3	2.19	0.57
2:M:1006:HIS:O	3:N:627:GLY:HA2	2.04	0.57
2:M:583:LEU:O	2:M:587:VAL:HG23	2.04	0.57
2:M:63:GLY:N	2:M:103:LYS:HE2	2.19	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:210:ARG:HD2	3:N:388:HIS:CB	2.33	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:1412:LYS:O	3:D:1414:PRO:HD3	2.05	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
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:1095:LEU:HG	2:M:1095:LEU:O	2.03	0.57
2:M:690:ILE:HD11	2:M:694:LEU:HD13	1.84	0.57
3:N:1155:VAL:HG11	3:N:1177:ALA:HB1	1.86	0.57
3:N:112:ILE:HD12	3:N:115:LEU:HD22	1.86	0.57
3:N:1206:GLY:O	3:N:1215:VAL:HG23	2.04	0.57
3:N:1209:LEU:HG	3:N:1210:SER:H	1.69	0.57
3:N:1211:MET:CG	3:N:1212:ALA:H	2.15	0.57
3:N:206:ARG:O	3:N:207:PHE:HD1	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:728:LEU:HD12	3:N:729:HIS:H	1.68	0.57
3:N:917:GLN:HA	3:N:917:GLN:NE2	2.19	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:115:LEU:HA	2:C:375:SER:OG	2.05	0.57
2:C:98:LEU:HD22	2:C:98:LEU:O	2.04	0.57
3:D:1236:LEU:HD12	3:D:1256:LEU:CD2	2.34	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
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: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:N	3:I:1472:ILE:HD13	2.19	0.57
3:I:165:LYS:HG2	3:I:166:GLN:N	2.19	0.57
4:J:53:GLY:C	4:J:55:PHE:H	2.07	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
1:K:67:THR:HG21	2:M:609:ASN:HD21	1.68	0.57
3:N:1428:ALA:O	3:N:1431:THR:HG22	2.04	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
1:A:101:LEU:HD13	1:A:113:ASP:O	2.05	0.57
1:A:24:VAL:HG22	1:A:196:THR:HG22	1.87	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:1273:VAL:O	3:D:1325:LEU:HB2	2.05	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:26:VAL:O	3:D:93:ILE:HD13	2.04	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:HD23	3:N:44:LEU:O	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:1122:LEU:HD11	3:D:1186:VAL:CG2	2.32	0.57
3:D:809:PRO:CB	3:D:812:ALA:HB2	2.22	0.57
2:H:193:LEU:H	2:H:193:LEU:HD12	1.69	0.57
2:H:162:ILE:HD11	2:H:306:THR:HG21	1.86	0.57
2:H:475:VAL:O	2:H:478:VAL:HG23	2.04	0.57
2:H:468:ARG:HG2	2:H:487:THR:HA	1.85	0.57
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: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
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
3:N:1263:PHE:CE2	3:N:1371:VAL:HG11	2.40	0.57
3:N:354:VAL:HG12	3:N:354:VAL:O	2.05	0.57
3:N:112:ILE:CD1	3:N:465:LEU:HD21	2.35	0.57
3:N:733:CYS:SG	3:N:738:ALA:O	2.59	0.57
2:C:547:ILE:HD12	2:C:842:ARG:O	2.04	0.57
1:A:176:ARG:NH2	2:C:865:THR:HB	2.20	0.57
2:C:865:THR:HG23	2:C:865:THR:O	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
3:I:1161:GLU:OE2	3:I:1164:ARG:HG3	2.05	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
1:K:229:GLN:CB	1:L:12:THR:HA	2.32	0.57
1:L:25:LEU:O	1:L:25:LEU:HD23	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:1266:ARG:O	3:N:1268:PRO:HD3	2.04	0.57
3:N:111:LYS:CE	3:N:1449:GLU:HG2	2.33	0.57
1:A:156:HIS:HD2	1:A:156:HIS:H	1.52	0.57
2:C:355:VAL:HG23	2:C:372:LEU:HG	1.86	0.57
3:D:1147:ARG:HB3	3:D:1188:VAL:CG2	2.29	0.57
3:D:1348:LEU:H	3:D:1348:LEU:HD13	1.70	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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:CD2	2:H:217:LEU:H	2.13	0.57
2:H:756:VAL:O	2:H:789:SER:HB2	2.04	0.57
3:I:1294:VAL:O	3:I:1294:VAL:HG12	2.04	0.57
3:I:139:GLY:HA2	3:I:162:ARG:NH2	2.19	0.57
3:I:18:ILE:HD13	3:I:516:ALA:O	2.05	0.57
3:I:470:LEU:HD21	3:I:508:ARG:HD3	1.87	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: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:CA	3:N:1493:LYS:HE2	2.32	0.57
3:N:17:LYS:HA	3:N:20:SER:OG	2.04	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:N	1:B:159:LYS:HD3	2.19	0.57
1:B:227:ASN:HD22	1:B:227:ASN:N	2.03	0.57
2:C:1088:LEU:HG	3:D:613:ARG:HD2	1.85	0.57
2:C:858:MET:HE3	2:C:858:MET:HA	1.87	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
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
1:F:68:ILE:N	1:F:68:ILE:HD12	2.19	0.57
2:H:1060:ILE:O	2:H:1063:ARG:HB3	2.05	0.57
2:H:196:LEU:HD13	2:H:197:LEU:N	2.20	0.57
2:H:64:LEU:HD21	2:H:355:VAL:HG22	1.87	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
3:I:1062:ARG:HD3	3:I:1062:ARG:O	2.04	0.57
3:I:154:THR:OG1	3:I:157:GLU:HG2	2.03	0.57
3:I:16:GLU:HA	3:I:19:ARG:NH1	2.19	0.57
2:H:1107:ASN:ND2	3:I:2:LYS:NZ	2.53	0.57
3:I:18:ILE:HG23	3:I:518:PRO:HG3	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:817:GLU:O	3:I:820:GLU:HB3	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: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
3:N:718:PRO:O	3:N:719:VAL:HG13	2.04	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:1149:LEU:HD23	3:I:1149:LEU:H	1.69	0.57
3:I:1148:VAL:O	3:I:1188:VAL:HG23	2.04	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: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
3:N:50:PHE:CD2	3:N:522:PRO:HD3	2.40	0.57
3:N:603:LEU:O	3:N:607:LEU:HG	2.05	0.57
3:N:95:LEU:HD23	3:N:96:ALA:N	2.19	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: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
3:D:151:GLN:HG3	3:D:152:LEU:H	1.70	0.56
3:D:25:GLU:HB2	3:D:92:HIS:CE1	2.40	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
1:G:67:THR:HG21	1:L:159:LYS:CE	2.30	0.56
2:H:162:ILE:HB	2:H:172:ILE:CG1	2.34	0.56
2:H:132:ALA:HB1	2:H:394:PHE:HE1	1.70	0.56
3:I:1205:TYR:CZ	3:I:1366:LYS:HD3	2.39	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:267:TYR:CD2	2:M:267:TYR:N	2.71	0.56
2:M:805:ARG:HG3	2:M:823:VAL:HG23	1.87	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
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
5:X:45:ASN:O	5:X:48:TYR:N	2.38	0.56
1:B:186:LEU:HD23	1:B:186:LEU:O	2.05	0.56
2:C:1008:ARG:HG2	2:C:1008:ARG:HH11	1.69	0.56
2:C:286:SER:HB3	2:C:299:LYS:NZ	2.20	0.56
2:C:557:ARG:HG3	2:C:557:ARG:HH11	1.70	0.56
2:C:612:VAL:HG22	2:C:622:GLU:CG	2.35	0.56
3:D:1198:TYR:OH	3:D:1432:LYS:HE2	2.05	0.56
3:D:643:GLY:O	3:D:644:LEU:HB2	2.04	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:G:13:VAL:HG12	1:G:14:ARG:N	2.20	0.56
1:F:35:THR:CG2	1:G:43:ILE:HD11	2.28	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:1015:TYR:HB3	3:I:1018:ASN:HB2	1.86	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
2:M:1008:ARG:NH2	2:M:1011:GLY:N	2.53	0.56
2:M:21:ILE:HG22	2:M:22:GLN:NE2	2.21	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
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
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
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
3:D:106:LYS:HB3	3:D:586:ARG:HD2	1.87	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:C:1046:ALA:HA	3:D:1472:ILE:HD11	1.86	0.56
2:C:1009:SER:HB2	3:D:652:LEU:HA	1.86	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:834:THR:HA	3:D:838:ARG:NH1	2.19	0.56
3:D:53:ILE:HB	3:D:86:ARG:NH1	2.20	0.56
3:D:887:ALA:HB1	3:D:893:GLU:HG3	1.87	0.56
3:I:1465:ASN:ND2	3:I:1470:ARG:HB3	2.14	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
2:M:15:LEU:HD23	2:M:586:ARG:HE	1.70	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: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:HD23	2:C:260:LEU:O	2.05	0.56
3:D:1007:VAL:HG12	3:D:1011:PHE:CE2	2.40	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
2:H:1077:PRO:O	2:H:1079:PRO:HD3	2.06	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
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
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: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
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:366:LYS:HE2	3:D:369:ALA:CB	2.36	0.56
3:D:98:PRO:O	3:D:458:ALA:HB3	2.06	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:770:LEU:HD22	3:I:1211:MET:O	2.05	0.56
3:I:701:LEU:C	3:I:702:LEU:HD22	2.26	0.56
1:K:189:ARG:NH1	1:K:189:ARG:HG3	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
3:N:1272:ALA:HA	3:N:1326:THR:CB	2.33	0.56
3:N:481:MET:O	3:N:489:ARG:HB2	2.05	0.56
2:M:1029:GLY:HA3	3:N:623:VAL:O	2.06	0.56
5:Z:123:SER:O	5:Z:127:LYS:N	2.38	0.56
1:A:86:VAL:HG13	1:A:86:VAL:O	2.05	0.56
1:A:11:PHE:HB2	1:B:224:TYR: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:1235:GLN:O	3:D:1236:LEU:HD23	2.06	0.56
3:D:10:ILE:HG12	3:D:1451:ALA:HA	1.87	0.56
3:D:1452:ILE:H	3:D:1452:ILE:HD12	1.70	0.56
3:D: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
1:G:205:VAL:CG2	1:G:209:GLU:HB2	2.35	0.56
2:H:1052:MET:HA	2:H:1052:MET:CE	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
3:I:766:ALA:HB1	4:J:2:ALA:HB2	1.87	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:1330:ILE:HD12	3:N:1330:ILE:N	2.19	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
5:X:128:ALA:HB2	5:X:140:LEU:HD21	1.88	0.56
3:I:1128:VAL:HG21	5:Y:23:ARG:NH2	2.21	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: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:72:ARG:C	2:C:73:LEU:HD12	2.25	0.56
2:C:839:LEU:HD21	2:C:849:VAL:CG2	2.35	0.56
2:C:994:ILE:N	2:C:994:ILE:HD12	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:N	2:H:108:ILE:HD13	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:108:VAL:HB	3:N:109:PRO:CD	2.20	0.56
3:N:12:LEU:H	3:N:12:LEU:CD2	2.05	0.56
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:HD23	3:N:851:LEU:N	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: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:6:PHE:CE1	2:C:909:ALA:HB2	2.40	0.56
2:C:860:HIS:CE1	2:C:977:GLY:HA2	2.41	0.56
2:C:89:THR:HG21	2:C:383:ARG:HH22	1.70	0.56
2:C:906:PHE:CE1	3:D:1067:VAL:HA	2.41	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
3:D:14:SER:O	3:D:18:ILE:HG12	2.06	0.56
1:G:212:ASN:O	1:G:215:VAL:HG22	2.06	0.56
1:G:26:GLU:HB2	1:G:27:PRO:HA	1.88	0.56
1:G:30:ARG:CB	1:G:30:ARG:HH11	2.18	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:HE21	3:I:1359:GLN:HA	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:1472:ILE:HD13	3:N:1472:ILE:N	2.05	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
5:Y:91:LEU:HB3	5:Y:149:PHE:HB3	1.88	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: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
2:C:576:ALA:HB3	2:C:900:ARG:HH11	1.68	0.56
1:A:183:ASP:HA	2:C:938:LYS:NZ	2.21	0.56
3:D:1155:VAL:C	3:D:1157:GLY:H	2.10	0.56
3:D:702:LEU:CD2	3:D:728:LEU:HD13	2.35	0.56
1:F:62:LEU:N	1:F:62:LEU:HD12	2.21	0.56
3:I:1381:VAL:HG22	3:I:1398:TRP:CZ2	2.39	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
2:M:1050:GLN:HA	2:M:1053:LEU:HG	1.87	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
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
3:N:514:LEU:HD12	3:N:514:LEU:O	2.05	0.56
3:N:548:ILE:H	3:N:548:ILE:HD12	1.70	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:751:PRO:HG3	2:C:796:GLU:HA	1.86	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: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:HB2	1:F:161:ARG:NH1	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: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
3:I:365:ASP:O	3:I:379:ALA:HB2	2.05	0.56
1:L:111:ALA:O	1:L:114:PHE:HD1	1.89	0.56
2:M:325:ILE:HD12	2:M:325:ILE:H	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: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
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
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:1052:MET:HE1	2:H:1056:LYS:CE	2.36	0.56
2:H:194:VAL:HG11	2:H:224:GLU:HB2	1.87	0.56
2:H:283:ILE:N	2:H:283:ILE:HD13	2.21	0.56
2:H:676:ILE:CG2	2:H:988:VAL:HG13	2.31	0.56
2:H:440:PRO:HA	3:I:1078:ARG:HH21	1.70	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
3:I:1353:GLN:HB3	3:I:1357:ARG:NE	2.21	0.56
3:I:516:ALA:O	3:I:518:PRO:HD3	2.05	0.56
3:I:540:LEU:CD1	3:I:540:LEU:H	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:966:GLU:O	3:I:970:LYS:HB2	2.05	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:1207:TYR:HE2	3:D:1214:PRO:HD3	1.71	0.55
3:D:786:ILE:O	3:D:787:LEU:C	2.44	0.55
3:D:7:LYS:HE2	3:D:1458:GLU:OE2	2.06	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:482:GLU:HG2	2:H:483:VAL:N	2.20	0.55
2:H:500:ASN:ND2	2:H:500:ASN:N	2.53	0.55
2:H:398:THR:CA	2:H:633:GLN:HG3	2.35	0.55
3:I:1021:TYR:CZ	3:I:1025:GLN:HG3	2.41	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:1283:ILE:HG22	3:I:1284:GLU:N	2.21	0.55
3:I:709:HIS:H	3:I:709:HIS:CD2	2.22	0.55
3:I:895:VAL:HG13	3:I:921:ARG:NH1	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:756:VAL:HG22	2:M:790:LEU:HD22	1.88	0.55
2:M:721:ARG:HA	2:M:820:ARG:NH2	2.21	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:1496:GLU:CA	3:N:1499:ARG:HH21	2.19	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
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:128:HIS:CE1	1:F:131:THR:HG23	2.40	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:74:ASP:CG	1:F:77:GLU:HG3	2.26	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:175:ARG:HB3	1:K:200:TRP:HB2	1.88	0.55
1:K:32:PHE:CZ	1:L:43:ILE:HD12	2.41	0.55
2:M:890:LEU:HD22	2:M:901:TYR:CD1	2.42	0.55
3:N:116:LEU:HD22	3:N:116:LEU:O	2.06	0.55
3:N:1095:THR:HG23	3:N:1230:GLY:HA3	1.88	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
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:HA	2:C:10:ARG:NH1	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:1495:ILE:HG23	4:E:84:ARG:NH1	2.21	0.55
3:D:470:LEU:H	3:D:470:LEU:HD23	1.71	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: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:46:ASP:OD2	3:N:48:ARG:HB3	2.06	0.55
3:N:844:ALA:HB1	3:N:867:ARG:NH2	2.16	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
3:N:1360:GLY:C	5:Z:37:LEU:HD12	2.27	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: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
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
1:F:172:SER:O	1:F:174:VAL:N	2.34	0.55
2:H:333:ILE:H	2:H:465:GLY:CA	2.15	0.55
2:H:115:LEU:CA	2:H:375:SER:HB2	2.36	0.55
2:H:472:ARG:NH1	2:H:481:ASP:HA	2.21	0.55
2:H:69:LEU:HG	2:H:98:LEU:HA	1.88	0.55
3:I:1098:LEU:CD2	3:I:1229:ILE:HB	2.37	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
1:L:184:THR:HG23	1:L:192:LEU:HB2	1.86	0.55
1:K:42:ARG:NH1	1:L:34:VAL:HB	2.19	0.55
2:M:239:PHE:CZ	2:M:252:LYS:HA	2.40	0.55
2:M:44:ILE:CD1	2:M:44:ILE:H	2.19	0.55
2:M:408:ARG:HH21	2:M:455:LEU:HD11	1.71	0.55
2:M:750:LYS:HE3	2:M:750:LYS:HA	1.87	0.55
2:M:756:VAL:O	2:M:789:SER:HB3	2.07	0.55
3:N:1189:ARG:NH1	3:N:1189:ARG:HG3	2.20	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
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:1104:GLU:CD	3:I:1104:GLU:H	2.10	0.55
3:I:783:ARG:N	3:I:783:ARG:HD2	2.22	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:1081:VAL:HG13	2:C:1085:PHE:HB3	1.87	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:905:ILE:H	2:C:905:ILE:HD12	1.71	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:HB2	2:H:735:ARG:CZ	2.34	0.55
3:I:1473:PRO:O	3:I:1478:SER:HA	2.06	0.55
3:I:671:LYS:HB3	3:I:675:ARG:HH21	1.72	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:1067:TYR:O	2:M:1071:ILE:HG12	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
3:N:365:ASP:H	3:N:379:ALA:CB	2.18	0.55
3:N:215:TYR:OH	3:N:380:GLU:HB2	2.06	0.55
3:N:637:LEU:CD2	3:N:642:CYS:HA	2.37	0.55
3:N:814:ALA:HA	3:N:817:GLU:OE1	2.07	0.55
3:N:812:ALA:HA	3:N:816:HIS:ND1	2.21	0.55
1:A:12:THR:OG1	1:A:24:VAL:HB	2.06	0.55
1:A:44:LEU:HD23	1:A:44:LEU:O	2.07	0.55
1:B:165:ILE:N	1:B:165:ILE:HD13	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:1258:ARG:O	3:D:1262:LEU:HD13	2.06	0.55
3:D:15:PRO:HA	3:D:18:ILE:CG1	2.36	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:CD2	1:F:156:HIS:H	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:367:LEU:CB	2:H:371:LYS:HG2	2.34	0.55
2:H:332:ARG:HG2	2:H:465:GLY:HA3	1.89	0.55
2:H:758:ARG:HH21	2:H:788:THR:HG22	1.71	0.55
2:H:902:ILE:N	2:H:902:ILE:HD12	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:292:ARG:HD2	2:M:299:LYS:HE2	1.89	0.55
2:M:54:ILE:HG22	2:M:66:LEU:O	2.07	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: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:HD12	3:N:1421:LEU:C	2.27	0.55
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
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: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:339:LEU:HD13	2:C:391:LEU:HD11	1.89	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:1485:GLN:HE21	4:E:79:LEU:N	2.05	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
1:G:175:ARG:HB2	1:G:200:TRP:CB	2.37	0.55
1:G:7:LYS:O	1:G:9:PRO:HD3	2.07	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:1055:LEU:HD11	2:C:1079:PRO:HD3	1.87	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
3:D:1394:VAL:HB	3:D:1397:LYS:CG	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
2:H:73:LEU:HD22	2:H:94:LEU:CB	2.33	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: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
3:I:433:GLY:HA3	3:I:447:VAL:O	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:1462:LEU:HD22	3:N:1472:ILE:CG2	2.36	0.55
3:N:465:LEU:CD1	3:N:512:MET:HB2	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:H	1:B:95:GLN:HE21	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:1104:GLU:C	3:D:1105:ILE:HD12	2.28	0.55
3:D:116:LEU:HB2	3:D:118:LEU:HG	1.88	0.55
1:F:101:LEU:HD21	1:F:113:ASP:HB3	1.89	0.55
1:F:12:THR:HG22	1:G:229:GLN:NE2	2.21	0.55
2:H:724:ARG:HG2	2:H:737:LEU:HD22	1.88	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
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
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:408:ARG:NE	2:M:455:LEU:HD11	2.22	0.55
2:M:400:PRO:HB3	2:M:593:ALA:HB2	1.89	0.55
5:Y:153:ALA:C	5:Y:154:ILE:HG13	2.27	0.55
3:N:783:ARG:NH2	5:Z:41:ASP:OD2	2.40	0.55
1:A:124:ASN:OD1	1:A:127:LEU:HB2	2.07	0.54
1:A:20:TYR:HD2	1:A:21:GLY:H	1.54	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:HH11	2:C:473:ARG:HG2	1.71	0.54
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
3:D:189:GLN:O	3:D:196:VAL:HG13	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:984:THR:HG23	3:D:986:ARG:N	2.22	0.54
3:D:971:LEU:HD22	3:D:996:TRP:HZ2	1.73	0.54
2:H:64:LEU:CD2	2:H:356:ARG:HA	2.36	0.54
2: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:1088:LEU:O	2:M:1092:LEU:HD12	2.07	0.54
2:M:15:LEU:HD23	2:M:586:ARG:NE	2.22	0.54
2:M:31:GLN:O	2:M:31:GLN:HG3	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
3:N:907:GLU:HG2	3:N:1027:GLY:N	2.22	0.54
3:N:209:ARG:CG	3:N:209:ARG:HH11	2.18	0.54
3:N:452:ILE:HG12	3:N:453:ASP: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:909:ALA:CB	2:C:914:ILE:HD11	2.34	0.54
2:C:906:PHE:HE1	3:D:1067:VAL:HA	1.70	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
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
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:1289:LYS:CE	3:I:1306:PRO:HG3	2.36	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:84:ILE:CG2	3:I:87:ARG:HH21	2.20	0.54
3:I:916:TYR:CZ	3:I:920:LEU:HD11	2.42	0.54
2:M:625:LEU:HA	2:M:639:GLN:OE1	2.07	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:862:PRO:HG2	2:M:973:VAL:HB	1.88	0.54
3:N:1045:MET:CE	3:N:1073:SER:HA	2.37	0.54
3:N:1326:THR:HG22	3:N:1327:ARG:N	2.22	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:600:LEU:N	3:N:600:LEU:HD12	2.19	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
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
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
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:926:PHE:CD1	2:H:929:ARG:HG3	2.42	0.54
2:H:700:TYR:HD2	2:H:996:LYS:HG3	1.71	0.54
3:I:1211:MET:SD	3:I:1213:ARG:HG2	2.46	0.54
3:I:206:ARG:NE	3:I:206:ARG:HA	2.22	0.54
3:I:25:GLU:HG3	3:I:92:HIS:O	2.07	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
1:K:156:HIS:HD2	1:K:157:GLY:N	2.05	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:80:GLN:HA	2:M:90:TYR:HE2	1.72	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:1086:ARG:NH1	2:C:1086:ARG:HB3	2.23	0.54
2:C:328:LEU:CD1	2:C:328:LEU:N	2.71	0.54
2:C:673:LEU:HD13	2:C:868:ASP:OD1	2.07	0.54
3:D:101:HIS:ND1	3:D:103:TRP:HB2	2.21	0.54
3:D:1132:LEU:N	3:D:1132:LEU:HD12	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
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
1:F:59:GLU:HG3	1:F:139:ASN:CB	2.36	0.54
2:H:487:THR:HG22	2:H:489:THR:H	1.73	0.54
2:H:52:PHE:HB3	2:H:53:PRO:HD3	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
2:H:97:ARG:O	2:H:98:LEU:HD13	2.07	0.54
3:I:1321:ALA:O	3:I:1339:LYS:HD3	2.07	0.54
3:I:587:ARG:HH11	3:I:587:ARG:HG2	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
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: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
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
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:58:ILE:HG13	1:B:140:MET:CB	2.32	0.54
1:B:51:THR:CB	1:B:87:VAL:HG22	2.37	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
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
2:C:1073:GLY:HA3	3:D:659:LYS:CE	2.37	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:871:LYS:HD2	3:I:871:LYS:H	1.72	0.54
3:I:762:GLN:NE2	4:J:20:THR:OG1	2.40	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: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
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
5:Z:7:LEU:HD11	5:Z:108:ALA:HB3	1.89	0.54
5:Z:3:ARG:O	5:Z:4:GLU:HG3	2.07	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:1012:PRO:HD3	2:C:1026:GLN:CD	2.28	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:98:LEU:H	2:C:98:LEU:HD13	1.73	0.54
3:D:1120:VAL:HG22	3:D:1186:VAL:O	2.08	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
1:G:185:ARG:HD2	1:G:187:GLY:H	1.72	0.54
1:G:40:LEU:O	1:G:44:LEU:HB2	2.07	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:1013:TYR:CE2	2:M:1060:ILE:HD11	2.42	0.54
2:M:15:LEU:HD13	2:M:15:LEU:N	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
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
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
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:H	2:C:374:ASN:HD22	1.53	0.54
3:D:1488:ASP:HB3	4:E:26:ARG:HH22	1.70	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
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: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
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
1:L:176:ARG:O	1:L:200:TRP:HE3	1.90	0.54
2:M:1013:TYR:CZ	2:M:1060:ILE:HD11	2.43	0.54
2:M:136:ILE:HG22	2:M:391:LEU:HD22	1.90	0.54
2:M:203:ASP:O	2:M:207:LEU:HB2	2.07	0.54
2:M:199:VAL:HG22	2:M:234:ALA:CB	2.38	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
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:215:VAL:O	1:A:218:LEU:HB3	2.08	0.54
1:A:79:ILE:HD12	1:A:83:LYS:HZ1	1.72	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:1103:ASP:HB3	2:C:1107:ASN:OD1	2.08	0.54
2:C:205:GLU:HG2	2:C:206:THR:N	2.22	0.54
3:D:1003:VAL:O	3:D:1006:ALA:HB3	2.08	0.54
3:D:119:SER:OG	3:D:123:LEU:HD22	2.08	0.54
3:D:1197:ARG:HB3	3:D:1396:GLU:HG3	1.90	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
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: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
3:I:908:LYS:HB2	3:I:1027:GLY:CA	2.36	0.54
2:M:1016:ILE:HG12	2:M:1017:THR:H	1.73	0.54
2:M:64:LEU:HB2	2:M:359:MET:HG3	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:334:ARG:HH12	2:M:415:PRO:HG2	1.72	0.54
3:N:1403:LEU:O	3:N:1407:LEU:HB2	2.07	0.54
3:N:18:ILE:HD13	3:N:516:ALA:O	2.08	0.54
3:N:922:LEU:N	3:N:922:LEU:HD23	2.03	0.54
2:C:437:ARG:HH12	2:C:488:ALA:HA	1.72	0.54
2:C:902:ILE:HD12	2:C:902:ILE:N	2.22	0.54
3:D:119:SER:OG	3:D:123:LEU:HD13	2.08	0.54
3:D:1381:VAL:HG22	3:D:1398:TRP:CH2	2.43	0.54
3:D:1333:HIS:CE1	3:D:1421:LEU:HD11	2.42	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
1:F:54:THR:CG2	1:F:158:ILE:HG13	2.18	0.54
1:G:165:ILE:H	1:G:165:ILE:HD13	1.71	0.54
1:G:45:LEU:HD11	1:G:177:VAL:HG22	1.89	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:CD1	3:I:720:LEU:H	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
3:D:980:MET:HA	5:X:142:THR:HG23	1.90	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: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
2:H:498:GLN:OE1	3:I:1067:VAL:HB	2.08	0.54
3:I:795:VAL:HG11	3:I:863:VAL:HG13	1.89	0.54
2:M:1059:ASP:OD2	2:M:1083:GLU:HG2	2.08	0.54
2:M:199:VAL:CG1	2:M:235:LEU:HG	2.38	0.54
2:M:140:ILE:HD12	2:M:331:ARG:HE	1.73	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:52:PHE:O	2:M:54:ILE:N	2.41	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:45:LEU:HG	1:A:174:VAL:HB	1.91	0.53
1:A:9:PRO:HD2	1:B:224:TYR:CE1	2.43	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:184:THR:HG22	1:K:185:ARG:N	2.23	0.53
1:K:68:ILE:N	1:K:68:ILE:HD13	2.23	0.53
2:M:755:LEU:HB2	2:M:790:LEU:HD21	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
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:99:ALA:HB3	3:N:514:LEU:HG	1.91	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:N	1:A:140:MET:SD	2.81	0.53
1:B:218:LEU:O	1:B:222:LEU:HG	2.08	0.53
1:B:70:GLY:HA2	1:B:133:GLU:HG2	1.91	0.53
2:C:136:ILE:HG22	2:C:136:ILE:O	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:1019:PRO:O	3:D:1020:LEU:C	2.44	0.53
3:D:102:ILE:CD1	3:D:586:ARG:NH1	2.69	0.53
3:D:1065:LEU:HD23	3:D:1066:THR:O	2.07	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
1:F:44:LEU:O	1:F:174:VAL:HG21	2.09	0.53
2:H:94:LEU:O	2:H:114:PHE:HB2	2.07	0.53
2:H:265:ARG:HG2	2:H:267:TYR:CG	2.43	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:300:ASP:C	2:H:302:VAL:H	2.12	0.53
2:H:18:LEU:HD13	2:H:590:ASP:OD1	2.09	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: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
1:K:32:PHE:CE2	1:L:43:ILE:HD12	2.43	0.53
2:M:369:PRO:O	2:M:373:VAL:HG23	2.08	0.53
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:1353:GLN:HB3	3:N:1357:ARG:NE	2.23	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
5:X:37:LEU:HD21	5:X:48:TYR:CE2	2.39	0.53
3:N:1359:GLN:HE22	5:Z:52:ARG:HH21	1.56	0.53
2:C:107:LEU:HD23	2:C:109:LYS:H	1.74	0.53
2:C:1111:ILE:HB	2:C:1112:PHE:CD1	2.42	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:71:TYR:H	2:C:71:TYR:HD2	1.57	0.53
2:C:758:ARG:HB2	2:C:788:THR:C	2.28	0.53
2:C:939:ARG:HG3	2:C:975:TYR:HE2	1.73	0.53
3:D:119:SER:HB2	3:D:123:LEU:CB	2.39	0.53
3:D:1492:LEU:HD12	3:D:1493:LYS:HZ2	1.73	0.53
3:D:982:PHE:HA	5:X:125:MET:SD	2.48	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: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:1008:ARG:O	3:N:625:TYR:HA	2.08	0.53
2:M:1006:HIS:CE1	2:M:1027:PHE:HB3	2.43	0.53
2:M:1076:VAL:HG21	3:N:752:SER:CA	2.36	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:673:LEU:O	2:M:868:ASP:HB2	2.08	0.53
2:M:929:ARG:HH11	2:M:929:ARG:HG3	1.74	0.53
3:N:908:LYS:HB3	3:N:1027:GLY:HA3	1.90	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:I:780:LYS:HZ3	5:Y:38:GLU:CD	2.11	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: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
3:D:838:ARG:HA	3:D:864:VAL:HA	1.90	0.53
3:D:95:LEU:HD21	3:D:574:LEU:HD11	1.90	0.53
2:H:1032:PHE:O	2:H:1036:GLU:CD	2.46	0.53
2:H:148:PHE:CZ	2:H:309:TYR:HB3	2.42	0.53
2:H:523:ILE:HD13	2:H:523:ILE:C	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
3:I:126:VAL:O	3:I:132:TYR:HB2	2.09	0.53
3:I:111:LYS:CG	3:I:1452:ILE:HD11	2.38	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:1202:GLN:HE21	3:N:1214:PRO:HB3	1.74	0.53
3:N:646:LYS:HD3	3:N:647:ARG:HH12	1.73	0.53
3:N:641:GLN:HB3	3:N:717:GLN:O	2.08	0.53
3:N:984:THR:HG22	3:N:987:GLU:OE1	2.08	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:1271:LYS:NZ	3:D:1271:LYS:HB3	2.22	0.53
3:D:165:LYS:HE2	3:D:167:GLU:HB2	1.91	0.53
3:D:15:PRO:HA	3:D:18:ILE:HG12	1.91	0.53
3:D:631:ILE:HG13	3:D:743:ASP:O	2.08	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:1052:MET:HG3	3:I:623:VAL:CG1	2.30	0.53
2:H:90:TYR:CD1	2:H:120:LEU:HD23	2.39	0.53
2:H:257:VAL:O	2:H:263:ASP:HB2	2.09	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:4:LYS:HD3	2:H:6:PHE:CZ	2.44	0.53
2:H:833:LEU:HA	2:H:837:ASP:OD2	2.09	0.53
3:I:168:THR:HG22	3:I:170:PRO:HD3	1.91	0.53
3:I:548:ILE:HD12	3:I:548:ILE:N	2.24	0.53
3:I:644:LEU:O	3:I:721:VAL:HG23	2.09	0.53
3:I:639:LEU:HD12	3:I:932:ASP:OD2	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:1461:GLY:H	3:N:1473:PRO:HG2	1.72	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:23:TYR:O	3:N:49:ILE:HA	2.09	0.53
3:N:789:LEU:HD12	3:N:911:LEU:HD21	1.89	0.53
3:D:982:PHE:CD1	5:X:117:MET:CE	2.92	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
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
2:C:521:PRO:HG3	3:D:1068:LEU:CD2	2.39	0.53
3:D:1189:ARG:HG3	3:D:1189:ARG:HH11	1.72	0.53
3:D:1257:PRO:CA	3:D:1260:ILE:HD13	2.30	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
2:H:1041:GLU:HB2	3:I:1223:ILE:HD13	1.90	0.53
2:H:508:ILE:HG22	2:H:509:ALA:N	2.23	0.53
3:I:1122:LEU:HD13	3:I:1178:ALA:HB2	1.90	0.53
3:I:112:ILE:HD13	3:I:512:MET:HE3	1.90	0.53
3:I:1307:LYS:HD3	3:I:1307:LYS:H	1.74	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
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
1:K:63:HIS:CD2	2:M:801:VAL:HG12	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:1148:VAL:O	3:N:1188:VAL:HG23	2.08	0.53
3:N:851:LEU:H	3:N:851:LEU:HD23	1.74	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:HB2	2:C:39:ARG:HH11	1.73	0.53
2:C:620:LEU:HD12	2:C:620:LEU:O	2.07	0.53
2:C:575:GLN:C	2:C:667:ALA:HB1	2.29	0.53
2:C:729:LEU:HG	2:C:729:LEU:O	2.09	0.53
2:C:754:ILE:N	2:C:754:ILE:HD12	2.24	0.53
3:D:101:HIS:CG	3:D:582:LEU:HD11	2.44	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:708:LEU:HD22	3:D:1231:GLU:N	2.24	0.53
3:D:1335:LEU:HD23	3:D:1344:VAL:HA	1.90	0.53
2:H:1017:THR:O	2:H:1018:GLN:HG2	2.08	0.53
2:H:274:ARG:O	2:H:277:ALA:HB3	2.08	0.53
2:H:134:ARG:HH21	2:H:393:GLN:HA	1.72	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
3:I:1098:LEU:HD21	3:I:1229:ILE:HB	1.89	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
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:1292:VAL:HG23	3:N:1305:LEU:HD22	1.91	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
4:O:25:LYS:O	4:O:29:GLN:HG3	2.08	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
1:A:35:THR:HG21	1:B:43:ILE:CD1	2.35	0.53
2:C:1008:ARG:NH1	3:D:624:ASP:HB3	2.24	0.53
2:C:19:THR:O	2:C:23:VAL:HG23	2.08	0.53
2:C:879:ARG:HH11	2:C:879:ARG:HG3	1.73	0.53
3:D:1268:PRO:HG2	3:D:1330:ILE:O	2.09	0.53
3:D:179:VAL:CG1	3:D:183:GLU:HB3	2.39	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:631:ILE:O	3:D:631:ILE:HD12	2.09	0.53
3:D:992:ILE:O	3:D:995:LEU:HB3	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: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
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
2:M:1085:PHE:O	2:M:1089:VAL:HG23	2.09	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:91:GLN:HB3	2:M:117:HIS:HB2	1.91	0.53
3:N:1041:LEU:HD12	3:N:1042:ARG:O	2.09	0.53
5:X:115:THR:HB	5:X:116:PRO:HD3	1.89	0.53
5:X:75:LEU:HD13	5:X:85:LEU:HB3	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: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
3:D:141:ILE:CD1	3:D:432:TYR:HB2	2.36	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
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
2:H:250:ARG:HH22	2:H:252:LYS:HG3	1.74	0.53
2:H:165:LEU:HD21	2:H:418:LEU:CD1	2.38	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:398:THR:HA	2:H:633:GLN:HG3	1.90	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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:197:LEU:HA	2:M:200:LEU:HD12	1.91	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
2:M:140:ILE:HD11	2:M:427:VAL:HG11	1.90	0.53
2:M:791:ARG:HH11	2:M:791:ARG:HB3	1.72	0.53
2:M:858:MET:HE2	2:M:859:PRO:CD	2.39	0.53
2:M:551:GLU:HG2	2:M:906:PHE:HA	1.90	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
3:N:135:LEU:HD21	3:N:147:VAL:CG2	2.39	0.53
3:N:845:ASN:O	3:N:845:ASN:ND2	2.42	0.53
3:N:924:MET:HB3	4:O:7:ASP:OD1	2.08	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:184:THR:HG23	1:G:192:LEU:HB2	1.90	0.53
1:G:90:LEU:HD13	1:G:119:ASP:OD1	2.09	0.53
2:H:165:LEU:HA	2:H:166:PRO:O	2.09	0.53
2:H:52:PHE:O	2:H:54:ILE:N	2.42	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:N	3:I:681:ARG:HD2	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:1080:SER:O	2:M:1081:VAL:HG23	2.09	0.53
2:M:313:LEU:HD22	2:M:321:GLU:O	2.09	0.53
2:M:557:ARG:NH1	2:M:557:ARG:HG3	2.22	0.53
2:M:798:GLY:HA3	2:M:828:ALA:O	2.09	0.53
3:N:514:LEU:HD21	3:N:578:VAL:HG11	1.91	0.53
3:N:780:LYS:HD2	3:N:912:LYS:HE2	1.90	0.53
5:X:104:VAL:HG13	5:X:119:ILE:O	2.08	0.53
5:X:99:ARG:NE	5:X:152:VAL:HG11	2.24	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: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
1:B:58:ILE:HD12	1:B:58:ILE:N	2.24	0.52
2:C:1024:LYS:CG	2:C:1025:ALA:H	2.22	0.52
2:C:264:PRO:HB3	2:C:289:THR:HB	1.91	0.52
2:C:527:GLU:N	2:C:527:GLU:CD	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
3:D:408:GLU:HG3	3:D:409:VAL:N	2.24	0.52
3:D:101:HIS:CD2	3:D:582:LEU:HD11	2.44	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: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:F:42:ARG:HH12	1:G:34:VAL:HB	1.73	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: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
2:H:549:PHE:CD2	2:H:886:LEU:HB3	2.44	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
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
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: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
2:M:44:ILE:HG21	2:M:71:TYR:CE1	2.44	0.52
2:M:498:GLN:HB3	2:M:500:ASN:OD1	2.08	0.52
2:M:473:ARG:HA	2:M:531:PHE:CD1	2.44	0.52
3:N:108:VAL:CB	3:N:109:PRO:HD3	2.21	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
3:N:639:LEU:C	3:N:639:LEU:HD22	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:811:GLU:O	3:D:815:ALA:N	2.42	0.52
3:D:792:ILE:HD12	3:D:941:PHE:CE2	2.44	0.52
1:G:179:PHE:N	1:G:179:PHE:CD2	2.76	0.52
2:H:1086:ARG:HG3	2:H:1111:ILE:HD12	1.91	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
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:1412:LYS:O	3:I:1414:PRO:HD3	2.10	0.52
3:I:398:ALA:HB2	3:I:447:VAL:HA	1.89	0.52
3:I:695:ILE:O	3:I:697:GLY:N	2.43	0.52
3:I:644:LEU:N	3:I:721:VAL:HG21	2.23	0.52
2:M:683:ASN:HA	2:M:687:ALA:CB	2.39	0.52
3:N:10:ILE:HD13	3:N:1434:TRP:CZ2	2.44	0.52
3:N:1379:VAL:HG23	3:N:1380:GLU:N	2.25	0.52
3:N:148:GLU:HG2	3:N:151:GLN:CB	2.39	0.52
3:N:2:LYS:NZ	3:N:2:LYS:HB2	2.23	0.52
3:N:954:ALA:HB3	3:N:1062:ARG:HG3	1.91	0.52
3:I:1235:GLN:NE2	5:Y:37:LEU:HD22	2.25	0.52
1:A:41:ARG:HH11	1:A:41:ARG:HG3	1.74	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
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:124:ASP:HA	2:C:592:LEU:HD12	1.92	0.52
2:C:605:LYS:HB2	2:C:612:VAL:HB	1.91	0.52
3:D:1442:ASN:HD21	3:D:1444:THR:HB	1.74	0.52
3:D:654:LYS:O	3:D:658:LEU:HG	2.08	0.52
2:H:1046:ALA:C	3:I:1471:LEU:HD11	2.29	0.52
2:H:219:GLN:HA	2:H:222:MET:HG2	1.91	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:H	3:I:1363:LEU:HD23	1.73	0.52
3:I:783:ARG:CG	3:I:784:ASP:H	2.15	0.52
4:J:37:ASN:ND2	4:J:37:ASN:N	2.56	0.52
3:I:1485:GLN:CG	4:J:79:LEU:H	2.16	0.52
1:K:85:LEU:HD11	1:K:122:ILE:HD13	1.91	0.52
2:M:175:GLU:HG2	2:M:176:VAL:N	2.24	0.52
2:M:31:GLN:HG2	2:M:45:GLN:NE2	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:HH11	3:N:675:ARG:HG2	1.73	0.52
1:A:194:LYS:HG2	1:A:194:LYS:O	2.08	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
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
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
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:95:LEU:HD12	3:D:97:THR:O	2.09	0.52
3:D:982:PHE:HD1	5:X:117:MET:HE1	1.75	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:1391:GLU:HB3	3:I:1393:GLN:NE2	2.24	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:26:VAL:CG2	3:I:49:ILE:HD13	2.39	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
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: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:30:LEU:CA	2:M:44:ILE:HD13	2.39	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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
5:Y:128:ALA:HB2	5:Y:140:LEU:HD21	1.91	0.52
5:Y:43:ARG:C	5:Y:43:ARG:HD2	2.30	0.52
5:Z:62:ILE:CG2	5:Z:63:ASP:N	2.72	0.52
1:B:173:PRO:O	1:B:201:THR:HG23	2.10	0.52
1:B:29:GLU:CD	1:B:30:ARG:H	2.13	0.52
2:C:1035:MET:HA	2:C:1038:TRP:CE3	2.45	0.52
2:C:229:MET:SD	2:C:229:MET:O	2.68	0.52
2:C:432:ARG:HH22	3:D:1047:LYS:HG2	1.75	0.52
2:C:44:ILE:O	2:C:47:ALA:HB3	2.10	0.52
2:C:537:LYS:NZ	2:C:904:PRO:HB3	2.24	0.52
2:C:73:LEU:HD23	2:C:94:LEU:HB2	1.91	0.52
3:D:1293:PHE:CZ	3:D:1302:GLU:HB2	2.44	0.52
2:C:1008:ARG:O	3:D:625:TYR:HA	2.09	0.52
3:D:869:MET:CE	3:D:897:TRP:HE1	2.23	0.52
2:H:402:SER:HB3	2:H:566:THR:O	2.09	0.52
2:H:15:LEU:CD2	2:H:583:LEU:HD12	2.39	0.52
2:H:891:GLY:O	2:H:894:GLY:N	2.43	0.52
4:J:40:LEU:HD12	4:J:40:LEU:O	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:1258:ARG:NE	3:N:1262:LEU:HD11	2.25	0.52
3:N:1408:ILE:CD1	3:N:1408:ILE:H	2.22	0.52
3:N:16:GLU:H	3:N:16:GLU:CD	2.13	0.52
3:N:606:ILE:HG13	3:N:606:ILE:O	2.10	0.52
3:N:884:ARG:O	3:N:888:GLU:HB2	2.09	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:1035:MET:HB2	2:C:1036:GLU:OE1	2.09	0.52
2:C:859:PRO:O	2:C:867:VAL:HG13	2.09	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:142:VAL:O	1:F:142:VAL:HG23	2.10	0.52
1:F:50:GLY:O	1:F:146:ARG:HG3	2.08	0.52
1:F:219:ARG:CA	1:F:222:LEU:HD22	2.38	0.52
3:D:562:ALA:HB2	2:H:226:VAL:HB	1.92	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: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
2:M:92:ALA:HB2	2:M:120:LEU:HD11	1.92	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:138:LEU:O	1:A:139:ASN:ND2	2.43	0.52
1:A:99:LEU:N	1:A:99:LEU:HD12	2.25	0.52
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:1274:ILE:HD11	3:D:1334:GLN:HB3	1.92	0.52
3:D:1225:ALA:HA	3:D:1367:HIS: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
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
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:103:LYS:NZ	2:M:103:LYS:HB3	2.24	0.52
2:M:1109:VAL:HG11	3:N:5:VAL:CG2	2.40	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:34:VAL:HG21	2:M:38:LYS:HB2	1.92	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:889:HIS:O	2:M:892:LEU:HB3	2.10	0.52
3:N:1053:PHE:CE1	3:N:1072:ILE:HG23	2.44	0.52
3:N:1124:GLN:HB3	3:N:1135:ARG:HG2	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1101:VAL:HG12	3:N:1428:ALA:HB2	1.90	0.52
3:N:18:ILE:CD1	3:N:516:ALA:HB3	2.38	0.52
2:M:848:VAL:HG23	3:N:740:PHE:O	2.10	0.52
3:N:787:LEU:HG	3:N:788:GLY:N	2.23	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:1043:TYR:CD2	3:D:763:MET:HG3	2.45	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
3:D:1422:MET:CE	3:D:1426:LYS:HB3	2.39	0.52
3:D:537:THR:O	3:D:538:SER:O	2.27	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:1107:VAL:HB	3:I:1218:GLY:N	2.16	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
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:CD2	3:N:902:LEU:H	2.17	0.52
5:X:102:VAL:HG13	5:X:103:GLN:N	2.25	0.52
2:C:1080:SER:O	2:C:1081:VAL:HG23	2.09	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:522:VAL:HG12	2:C:523:ILE:N	2.25	0.52
2:C:404:LEU:HD21	2:C:591:SER:OG	2.10	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
3:D:119:SER:CB	3:D:123:LEU:HD22	2.40	0.52
3:D:1330:ILE:HD13	3:D:1347:TYR:CE1	2.44	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:509:PRO:O	3:D:512:MET:HG2	2.09	0.52
3:D:800:LYS:NZ	3:D:804:LEU:HD12	2.24	0.52
3:D:813:LEU:HD12	3:D:814:ALA:CB	2.39	0.52
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: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
1:G:56:VAL:HG12	1:G:57:TYR:N	2.24	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: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
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
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:1096:ALA:O	2:M:1097:LEU:C	2.47	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
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
2:M:1046:ALA:CA	3:N:1472:ILE:HD11	2.28	0.52
3:N:99:ALA:HB3	3:N:514:LEU:CD1	2.39	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: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
2:C:443:THR:HG21	3:D:1078:ARG:NE	2.25	0.52
3:D:1478:SER:O	3:D:1482:ARG:HB2	2.10	0.52
3:D:130:SER:O	3:D:568:ARG:NH2	2.43	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:HD23	2:H:281:LEU:H	1.74	0.52
2:H:292:ARG:NE	2:H:299:LYS:HE2	2.25	0.52
3:I:1359:GLN:HE21	3:I:1359:GLN:CA	2.22	0.52
3:I:187:LYS:HG2	3:I:199:LEU:C	2.29	0.52
3:I:845:ASN:N	3:I:845:ASN:HD22	2.08	0.52
4:J:23:VAL:HG22	4:J:68:LEU:HD21	1.91	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
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:133:ASP:HB2	2:M:632:ASN:HD21	1.75	0.52
2:M:668:LEU:O	2:M:995:MET:HB3	2.10	0.52
3:N:1211:MET:HG2	3:N:1212:ALA:N	2.19	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
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:100:LEU:CG	1:G:115:LEU:HD11	2.40	0.51
1:G:45:LEU:HA	1:G:48:ILE:HD11	1.93	0.51
2:H:249:LYS:HG2	2:H:250:ARG:H	1.74	0.51
2:H:144:PRO:HG2	2:H:265:ARG:CZ	2.39	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: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:117:ASP:HB2	3:I:495:ARG:HH12	1.75	0.51
3:I:813:LEU:HD12	3:I:814:ALA:N	2.24	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
1:K:178:ALA:HB2	2:M:864:GLY:H	1.74	0.51
3:N:107:ASP:O	3:N:108:VAL:C	2.47	0.51
3:N:1121:PRO:HD2	3:N:1346:ARG:HH21	1.75	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1377:LYS:HD3	3:N:1378:TYR:CE1	2.44	0.51
3:N:162:ARG:CD	3:N:452:ILE:HD12	2.40	0.51
3:N:103:TRP:HZ2	3:N:604:THR:HG1	1.58	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:O	3:D:10:ILE:HG23	2.10	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
3:D:719:VAL:CG1	3:D:720:LEU:HD22	2.40	0.51
1:F:59:GLU:CG	1:F:139:ASN:HB3	2.37	0.51
2:H:10:ARG:NH1	2:H:10:ARG:HA	2.18	0.51
2:H:15:LEU:CD1	2:H:15:LEU:H	2.21	0.51
2:H:196:LEU:C	2:H:196:LEU:HD22	2.31	0.51
2:H:283:ILE:HG12	2:H:284:ARG:H	1.76	0.51
2:H:341:THR:O	2:H:344:PHE:HB3	2.11	0.51
2:H:544:THR:C	2:H:546:LEU:H	2.12	0.51
3:I:1403:LEU:O	3:I:1407:LEU:HB2	2.11	0.51
2:H:1107:ASN:HD22	3:I:2:LYS:HZ2	1.56	0.51
1:K:111:ALA:HB2	1:K:127:LEU:HD23	1.92	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
2:M:1061:GLU:HG3	3:N:84:ILE:HG13	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
3:N:1435:LEU:HD23	3:N:1464:GLU:HB2	1.93	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:I:780:LYS:NZ	5:Y:38:GLU:OE2	2.37	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:1333:HIS:O	3:D:1336:LEU:HB3	2.09	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
1:F:165:ILE:N	1:F:165:ILE:HD12	2.25	0.51
1:G:104:GLU:HA	1:G:132:LEU:HD23	1.92	0.51
2:H:129:ILE:HD12	2:H:386:PHE:HB3	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:323:ASP:N	2:H:323:ASP:OD2	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
2:H:73:LEU:CB	2:H:94:LEU:HA	2.41	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:1330:ILE:HD12	3:I:1330:ILE:N	2.25	0.51
3:I:206:ARG:HE	3:I:206:ARG:HA	1.76	0.51
3:I:17:LYS:HG2	3:I:21:TRP:HE1	1.75	0.51
3:I:137:PRO:CG	3:I:453:ASP:HB2	2.40	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:H	3:I:959:GLU:CD	2.14	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:124:ASP:N	2:M:124:ASP:OD1	2.41	0.51
2:M:54:ILE:HG12	2:M:64:LEU:HD21	1.92	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
3:N:916:TYR:CZ	3:N:920:LEU:HD11	2.45	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:HD13	4:O:73:LEU:N	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: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
2:C:66:LEU:CD1	2:C:98:LEU:HD23	2.32	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
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:HG13	3:D:1460:ILE:O	2.10	0.51
3:D:431:VAL:HG12	3:D:432:TYR:N	2.21	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:409:VAL:HG12	3:D:435:VAL:HG11	1.93	0.51
3:D:811:GLU:HG2	3:D:815:ALA:HB2	1.92	0.51
4:E:81:PRO:HB2	4:E:84:ARG:HB2	1.92	0.51
3:D:1498:ALA:CB	4:E:84:ARG:HH21	2.20	0.51
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
1:F:32:PHE:CZ	1:G:43:ILE:HD12	2.44	0.51
2:H:1016:ILE:H	2:H:1016:ILE:CD1	2.05	0.51
2:H:199:VAL:HG13	2:H:235:LEU:HD23	1.93	0.51
3:D:563:PRO:CA	2:H:223:ASP:HB2	2.36	0.51
2:H:199:VAL:HG23	2:H:234:ALA:HB1	1.92	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
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: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
3:N:463:GLN:HA	3:N:466:LYS:HE2	1.93	0.51
3:N:631:ILE:CD1	3:N:631:ILE:H	2.23	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:405:ARG:HH12	2:C:563:ASN:HA	1.75	0.51
2:C:54:ILE:HG12	2:C:64:LEU:HD23	1.92	0.51
3:D:1229:ILE:C	3:D:1232:PRO:HD2	2.29	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:95:LEU:HD13	3:D:96:ALA:H	1.74	0.51
1:F:169:ALA:HB1	1:F:171:PHE:CE2	2.46	0.51
1:F:41:ARG:NH1	1:F:177:VAL:O	2.44	0.51
2:H:1094:ALA:CB	2:H:1095:LEU:HD13	2.40	0.51
2:H:885:ILE:HG22	2:H:889:HIS:CE1	2.44	0.51
2:H:8:ARG:N	2:H:907:ASP:OD2	2.44	0.51
3:I:1103:HIS:O	3:I:1462:LEU:HD12	2.10	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: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:1029:GLY:HA3	3:D:623:VAL:O	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:943:VAL:CG1	2:C:944:LEU:N	2.74	0.51
2:C:939:ARG:HB2	2:C:975:TYR:OH	2.10	0.51
2:C:521:PRO:HG3	3:D:1068:LEU:HD21	1.91	0.51
3:D:1189:ARG:HG3	3:D:1189:ARG:NH1	2.24	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
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:432:ARG:HH22	3:I:1047:LYS:HG2	1.75	0.51
2:H:54:ILE:HG22	2:H:66:LEU:O	2.10	0.51
2:H:622:GLU:HG3	2:H:623:TYR:H	1.76	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:K:57:TYR:O	1:K:140:MET:HA	2.10	0.51
1:L:99:LEU:HD22	1:L:114:PHE:HD2	1.75	0.51
1:L:88:ARG:HB2	1:L:123:MET:HE2	1.93	0.51
2:M:238:LEU:CD2	2:M:241:LEU:HD12	2.36	0.51
2:M: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: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
3:N:148:GLU:HG2	3:N:151:GLN:HB3	1.92	0.51
3:N:186:VAL:HA	3:N:200:ASP:OD1	2.10	0.51
3:N:169:TYR:HB2	3:N:393:ILE:O	2.10	0.51
3:N:654:LYS:CB	3:N:655:PRO:HD3	2.41	0.51
3:N:84:ILE:HD13	3:N:84:ILE:H	1.75	0.51
3:N:982:PHE:HA	5:Z:125:MET:SD	2.51	0.51
1:A:178:ALA:HB2	2:C:864:GLY:H	1.75	0.51
1:B:122:ILE:HD12	1:B:122:ILE:H	1.76	0.51
1:B:43:ILE:O	1:B:48:ILE:HD13	2.11	0.51
2:C:1037:VAL:O	2:C:1040:LEU:HB3	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:293:PHE:HA	2:C:298:PHE:CD2	2.46	0.51
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
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
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
2:C:1056:LYS:O	3:D:624:ASP:OD1	2.28	0.51
3:D:984:THR:CG2	3:D:987:GLU:H	2.23	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:800:VAL:HA	2:H:827:VAL:HA	1.92	0.51
2:H:704:HIS:CE1	2:H:831:ARG:HG3	2.46	0.51
2:H:879:ARG:HH11	2:H:879:ARG:HG3	1.75	0.51
3:I:1036:ARG:NH2	3:I:1042:ARG:HA	2.25	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
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:374:ASN:O	2:M:377:PRO:HD2	2.10	0.51
2:M:44:ILE:CD1	2:M:44:ILE:N	2.73	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:1370:ILE:O	3:N:1373:ARG:HB3	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:84:ILE:O	3:N:87:ARG:HG2	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:153:ALA:HA	1:A:167:VAL:O	2.11	0.51
1:A:57:TYR:HE1	1:A:163:ASN:CB	2.24	0.51
1:B:209:GLU:O	1:B:210:ALA:C	2.48	0.51
1:B:13:VAL:HG13	1:B:23:PHE:CD1	2.46	0.51
2:C:1013:TYR:CE2	2:C:1063:ARG:NH2	2.79	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:473:ARG:HA	2:C:531:PHE:CE1	2.45	0.51
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
3:D:1465:ASN:ND2	3:D:1470:ARG:HB3	2.24	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
2:H:1019:GLN:CD	3:I:621:LYS:HD2	2.31	0.51
2:H:243:ARG:NE	2:H:243:ARG:H	2.09	0.51
2:H:268:ASP:OD2	2:H:272: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
3:I:588:GLY:O	3:I:589:ALA:HB2	2.11	0.51
2:H:1051:GLU:OE2	3:I:751:LEU:HB2	2.10	0.51
1:K:67:THR:HG21	2:M:609:ASN:ND2	2.26	0.51
2:M:1065:ALA:C	2:M:1077:PRO:HG2	2.31	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:52:PHE:HE1	2:M:66:LEU:HD12	1.76	0.51
2:M:946:ARG:O	2:M:950:LEU:HB2	2.11	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: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
2:C:252:LYS:HE3	2:C:256:TYR:CD1	2.46	0.51
2:C:145:GLY:HA3	2:C:276:LYS:CG	2.41	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
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
2:C:988:VAL:HG11	3:D:949:ILE:O	2.11	0.51
3:D:964:LEU:HD23	3:D:964:LEU:C	2.30	0.51
1:F:101:LEU:CD2	1:F:102:LYS:N	2.73	0.51
1:F:58:ILE:CG2	1:F:59:GLU:N	2.73	0.51
1:F:78:ILE:HD12	1:F:130:ALA:CB	2.40	0.51
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:N	2:H:118:ILE:CD1	2.73	0.51
2:H:442:GLU:OE2	2:H:541:SER:HB3	2.10	0.51
2:H:579:VAL:O	2:H:579:VAL:HG13	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:1098:LEU:O	3:I:1101:VAL:HG22	2.10	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
1:L:83:LYS:HD3	1:L:168:ASP:HB2	1.92	0.51
2:M:1038:TRP:O	2:M:1041:GLU:HB2	2.10	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
3:N:1040:GLY:O	3:N:1041:LEU:HB3	2.11	0.51
3:N:1036:ARG:NH1	3:N:1041:LEU:O	2.44	0.51
3:N:1119:SER:O	3:N:1121:PRO:HD3	2.11	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
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: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
2:C:94:LEU:HD22	2:C:95:TYR:N	2.25	0.51
3:D:200:ASP:N	3:D:200:ASP:OD2	2.43	0.51
3:D:207:PHE:O	3:D:390:PRO:HA	2.11	0.51
3:D:102:ILE:HG22	3:D:582:LEU:CD1	2.40	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:1056:LYS:NZ	3:I:625:TYR:HB2	2.26	0.51
2:H:939:ARG:HE	2:H:939:ARG:HA	1.75	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:1132:LEU:HD12	3:N:1132:LEU:H	1.75	0.51
3:N:116:LEU:HG	3:N:464:LEU:HD11	1.92	0.51
3:N:142:LEU:HD22	3:N:142:LEU:N	2.26	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:1183:ILE:CD1	3:D:1183:ILE:N	2.73	0.50
3:D:1245:GLY:O	3:D:1246:VAL:CG1	2.53	0.50
3:D:629:SER:OG	3:D:630:VAL:N	2.43	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:953:VAL:HG11	2:H:962:GLN:HB3	1.93	0.50
2:H:944:LEU:HD11	2:H:963:LEU:CD2	2.41	0.50
3:I:185:VAL:HG21	3:I:191:LEU:HD21	1.93	0.50
3:I:97:THR:HG22	3:I:554:LEU:HD21	1.93	0.50
4:J:59:ASN:HD21	4:J:61:VAL:HG23	1.77	0.50
4:J:23:VAL:HG22	4:J:68:LEU:CD2	2.41	0.50
1:L:44:LEU:O	1:L:174:VAL:HG21	2.11	0.50
1:K:43:ILE:HD12	1:L:32:PHE:CE2	2.46	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:N	2:C:15:LEU:HD12	2.21	0.50
2:C:217:LEU:H	2:C:217:LEU:HD12	1.75	0.50
2:C:54:ILE:CD1	2:C:355:VAL:HG13	2.41	0.50
2:C:572:ILE:CG1	2:C:573:ARG:N	2.74	0.50
2:C:516:ARG:HD2	3:D:1068:LEU:HD22	1.92	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: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
2:H:44:ILE:N	2:H:44:ILE:CD1	2.74	0.50
3:I:1098:LEU:CD2	3:I:1226:ALA:HA	2.41	0.50
3:I:112:ILE:HD13	3:I:465:LEU:HD21	1.92	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
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
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:1072:ILE:HA	3:D:1075:HIS:CD2	2.46	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
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:1086:ARG:NH1	2:H:1111:ILE:O	2.44	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:176:VAL:HG23	2:H:176:VAL:O	2.11	0.50
3:I:1167:SER:O	3:I:1171:VAL:HG23	2.12	0.50
2:H:1041:GLU:HB2	3:I:1223:ILE:CD1	2.41	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
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:99:LEU:C	1:L:100:LEU:HD23	2.32	0.50
1:L:52:ALA:CB	1:L:170:VAL:H	2.24	0.50
1:L:205:VAL:HB	1:L:209:GLU:OE2	2.11	0.50
2:M:21:ILE:HD12	2:M:21:ILE:H	1.75	0.50
2:M:22:GLN:OE1	2:M:336:VAL:CG2	2.59	0.50
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:153:ALA:HB2	1:A:168:ASP:OD1	2.11	0.50
1:A:7:LYS:NZ	1:A:27:PRO:HD2	2.26	0.50
1:B:56:VAL:O	1:B:165:ILE:CD1	2.59	0.50
2:C:136:ILE:N	2:C:136:ILE:HD12	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:1123:PHE:CD2	3:D:1184:GLN:HG3	2.47	0.50
3:D:1241:PHE:C	3:D:1241:PHE:CD1	2.84	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:1209:LEU:HD11	4:E:16:LYS:NZ	2.26	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:127:LEU:HD23	1:B:128:HIS:N	2.27	0.50
1:B:26:GLU:HB2	1:B:193:ASP:O	2.12	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
2:C:52:PHE:CD2	2:C:68:PHE:HB2	2.47	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: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
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
1:F:109:VAL:HG12	1:F:129:ILE:HD12	1.94	0.50
1:F:56:VAL:HG12	1:F:140:MET:HB2	1.93	0.50
1:F:64:GLU:CA	1:F:75:VAL:HG11	2.32	0.50
1:F:98:THR:HG23	1:F:143:ARG:HA	1.93	0.50
1:G:179:PHE:N	1:G:179:PHE:HD2	2.10	0.50
1:G:36:LEU:HD23	1:G:36:LEU:N	2.27	0.50
2:H:332:ARG:NE	2:H:464:LEU:HD23	2.26	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
2:H:550:LEU:HG	3:I:1070:TYR:HE1	1.77	0.50
3:I:141:ILE:HG23	3:I:448:GLU:CD	2.32	0.50
1:L:97:VAL:HG11	1:L:120:VAL:HG21	1.92	0.50
1:L:13:VAL:HG12	1:L:14:ARG:H	1.76	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
2:M:191:PHE:HZ	2:M:196:LEU:HD12	1.77	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
2:M:98:LEU:N	2:M:98:LEU:CD1	2.74	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
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
5:Z:7:LEU:HD11	5:Z:108:ALA:CB	2.41	0.50
1:A:209:GLU:O	1:A:213:GLN:HG3	2.11	0.50
1:A:85:LEU:HD12	1:A:124:ASN:CB	2.36	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: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
3:D:166:GLN:OE1	3:D:166:GLN:C	2.50	0.50
3:D:786:ILE:N	3:D:786:ILE:HD12	2.26	0.50
2:H:1000:MET:HB3	2:H:1002:GLU:HG2	1.93	0.50
2:H:261:ILE:CG1	2:H:262:ALA:N	2.72	0.50
2:H:44:ILE:N	2:H:44:ILE:HD12	2.26	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
3:I:1229:ILE:O	3:I:1232:PRO:HD2	2.12	0.50
3:I:655:PRO:O	3:I:658:LEU:HB2	2.11	0.50
2:M:1008:ARG:HH22	2:M:1011:GLY:H	1.60	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:89:THR:OG1	2:M:91:GLN:NE2	2.44	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: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
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
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: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:133:ILE:HG22	3:I:454:ALA:HB1	1.93	0.50
3:I:1425:THR:O	3:I:1429:LEU:HD13	2.11	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
2:M:1032:PHE:CZ	2:M:1040:LEU:HD22	2.34	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:66:LEU:HD22	2:M:99:GLN:O	2.12	0.50
2:M:752:GLY:O	2:M:791:ARG:NH1	2.45	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:1095:LEU:HG	2:C:1095:LEU:O	2.12	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
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
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

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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:1099:VAL:HA	3:I:9:ARG:O	2.12	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:68:PHE:HZ	2:H:71:TYR:HD2	1.58	0.50
3:I:1196:THR:O	3:I:1197:ARG:C	2.50	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
2:M:204:GLN:HB3	2:M:222:MET:CE	2.42	0.50
2:M:2:GLU:H	2:M:2:GLU:CD	2.15	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
3:N:1323:GLN:O	3:N:1325:LEU:HD13	2.12	0.50
2:M:1046:ALA:HB3	3:N:1476:THR:OG1	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:1086:ARG:CB	2:C:1086:ARG:HH11	2.25	0.50
2:C:1095:LEU:HD23	2:C:1095:LEU:N	2.27	0.50
2:C:884:GLN:HG3	2:C:885:ILE:N	2.26	0.50
3:D:119:SER:HB2	3:D:123:LEU:H	1.75	0.50
3:D:1330:ILE:HD13	3:D:1347:TYR:HE1	1.77	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:HD23	3:D:394:LEU:N	2.27	0.50
2:C:1073:GLY:N	3:D:659:LYS:HD3	2.26	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
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:1283:ILE:HG22	3:I:1284:GLU:H	1.75	0.50
3:I:1289:LYS:HD2	3:I:1304:LYS:NZ	2.27	0.50
3:I:711:LEU:HD21	3:I:768:ASN:HB3	1.94	0.50
3:I:860:LEU:HD23	3:I:860:LEU:H	1.76	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:838:ARG:HA	3:I:864:VAL:HA	1.93	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:1346:ARG:HG3	3:N:1346:ARG:NH1	2.27	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
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:1031:ARG:HG2	2:C:1032:PHE:H	1.76	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
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
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
2:H:165:LEU:HB3	2:H:265:ARG:NE	2.25	0.49
2:H:20:GLU:HA	2:H:23:VAL:HB	1.92	0.49
2:H:313:LEU:CD1	2:H:314:THR:HG23	2.42	0.49
2:H:141:HIS:CB	2:H:418:LEU:HD23	2.42	0.49
2:H:801:VAL:O	2:H:801:VAL:CG2	2.60	0.49
3:I:1256:LEU:N	3:I:1257:PRO:CD	2.74	0.49
3:I:496:LEU:O	3:I:499:VAL:HB	2.12	0.49
2:H:1052:MET:CG	3:I:623:VAL:HG11	2.34	0.49
3:I:639:LEU:C	3:I:639:LEU:HD22	2.32	0.49
3:I:644:LEU:C	3:I:721:VAL:HG23	2.32	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:1006:HIS:CE1	2:M:1028:GLY:H	2.29	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
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
3:N:799:LYS:HG2	3:N:800:LYS:N	2.27	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:1076:VAL:CG2	3:D:752:SER:HA	2.41	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
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
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
4:E:27:ALA:HB1	4:E:60:ALA:HB1	1.93	0.49
1:G:153:ALA:HB2	1:G:167:VAL:C	2.31	0.49
1:G:58:ILE:HB	1:G:61:VAL:HG23	1.93	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:153:ALA:HB2	1:L:168:ASP:N	2.27	0.49
1:L:44:LEU:HD13	1:L:177:VAL:HG11	1.93	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
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
3:N:1155:VAL:HG21	3:N:1183:ILE:HG12	1.93	0.49
3:N:122:GLU:O	3:N:126:VAL:HG23	2.12	0.49
3:N:25:GLU:HG3	3:N:92:HIS:O	2.11	0.49
3:N:642:CYS:SG	3:N:716:PHE:CB	2.99	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:1067:TYR:CE2	2:C:1071:ILE:HG13	2.47	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
3:D:1406:ARG:HD2	3:D:1412:LYS:CD	2.42	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:26:VAL:CG1	3:D:49:ILE:HD12	2.42	0.49
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
4:E:45:ARG:HH11	4:E:55:PHE:HB3	1.76	0.49
3:D:925:GLU:OE2	4:E:6:ILE:HG22	2.13	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:1253:THR:OG1	3:I:1258:ARG:HD3	2.13	0.49
3:I:1492:LEU:C	3:I:1492:LEU:HD13	2.32	0.49
3:I:123:LEU:CD1	3:I:152:LEU:HD11	2.42	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: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
2:M:264:PRO:CB	2:M:289:THR:HB	2.42	0.49
2:M:410:ILE:HD11	2:M:455:LEU:HB3	1.93	0.49
2:M:331:ARG:NH2	2:M:427:VAL:HG11	2.28	0.49
2:M:461:VAL:HG12	2:M:462:ASP:N	2.27	0.49
2:M:55:GLU:HA	2:M:64:LEU:O	2.11	0.49
2:M:584:GLU:HB2	2:M:666:LEU:H	1.77	0.49
2:M:928:LYS:HZ2	2:M:928:LYS:HA	1.76	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
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
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: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
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
4:E:47:LYS:HG2	4:E:55:PHE:HE2	1.77	0.49
2:H:114:PHE:C	2:H:115:LEU:HD23	2.31	0.49
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
2:H:31:GLN:HG3	2:H:40:GLU:CG	2.41	0.49
2:H:473:ARG:HA	2:H:531:PHE:CD1	2.47	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:498:GLN:HA	2:H:533:ASP:OD2	2.12	0.49
2:H:5:ARG:HA	2:H:902:ILE:O	2.11	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
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
4:J:27:ALA:O	4:J:30:LEU:HB2	2.13	0.49
1:L:30:ARG:NH1	1:L:30:ARG:HB3	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:CD2	3:N:205:TYR:C	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:111:ASN:OD1	5:X:113:LEU:HB2	2.12	0.49
5:X:92:GLU:OE2	5:X:99:ARG:HG2	2.11	0.49
1:A:151:VAL:H	1:A:169:ALA:HB3	1.77	0.49
1:A:73:GLU:O	1:A:78:ILE:HD11	2.11	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:N	3:D:44:LEU:HD12	2.24	0.49
1:F:215:VAL:O	1:F:218:LEU:HB3	2.12	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
2:H:157:ARG:HG3	2:H:314:THR:HG22	1.95	0.49
3:I:1147:ARG:HB3	3:I:1188:VAL:CG2	2.37	0.49
3:I:1460:ILE:H	3:I:1460:ILE:HD13	1.78	0.49
3:I:135:LEU:HD21	3:I:147:VAL:CG2	2.42	0.49
3:I:28:LYS:HG2	3:I:41:ARG:HH21	1.78	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
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
3:D:1040:GLY:O	3:D:1060:SER:HB3	2.13	0.49
3:D:109:PRO:O	3:D:111:LYS:N	2.46	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
3:D:31:THR:CG2	3:D:44:LEU:HD13	2.43	0.49
2:C:1006:HIS:O	3:D:627:GLY:HA2	2.13	0.49
3:D:702:LEU:HD13	3:D:716:PHE:CD1	2.48	0.49
3:D:705:ALA:HB3	3:D:706:PRO:CD	2.35	0.49
3:D:87:ARG:HA	3:D:521:PRO:HB3	1.93	0.49
3:D:881:LEU:O	3:D:885:ILE:HG12	2.12	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:1045:ALA:HB1	2:H:1048:THR:CB	2.40	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
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:966:GLU:O	3:N:970:LYS:HE2	2.12	0.49
3:N:767:HIS:NE2	4:O:6:ILE:HD12	2.27	0.49
1:B:52:ALA:HB1	1:B:170:VAL:H	1.76	0.49
2:C:1090:LYS:HA	2:C:1093:GLN:HG3	1.94	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:585:GLU:HA	2:C:664:GLY:O	2.13	0.49
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
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:1336:LEU:O	3:I:1340:GLY:HA2	2.12	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
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:1149:LEU:HD11	3:N:1160:LEU:O	2.13	0.49
3:N:1146:GLY:HA2	3:N:1207:TYR:HB2	1.95	0.49
3:N:1211:MET:SD	3:N:1213:ARG:HG2	2.53	0.49
3:N:1346:ARG:HH12	3:N:1350:GLU:HB2	1.78	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
1:A:24:VAL:HG22	1:A:196:THR:CG2	2.43	0.49
1:A:205:VAL:HB	1:A:209:GLU:HB2	1.94	0.49
1:A:43:ILE:HG23	1:B:32:PHE:CZ	2.47	0.49
1:B:83:LYS:HZ2	1:B:167:VAL:CG1	2.26	0.49
2:C:1078:GLU:H	2:C:1078:GLU:CD	2.16	0.49
2:C:165:LEU:HB3	2:C:265:ARG:CZ	2.42	0.49
2:C:44:ILE:HD12	2:C:44:ILE:N	2.28	0.49
2:C:496:ILE:HD12	2:C:496:ILE:N	2.27	0.49
2:C:98:LEU:N	2:C:98:LEU:HD13	2.28	0.49
3:D:1401:GLU:OE1	3:D:1415:VAL:HG22	2.13	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
2:C:983:ILE:HG23	3:D:944:THR:HA	1.95	0.49
3:D:957:PRO:HG2	3:D:1007:VAL:HG13	1.94	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:251:ASP:O	2:H:253:ALA:N	2.45	0.49
2:H:55:GLU:HA	2:H:64:LEU:O	2.13	0.49
2:H:877:PRO:O	2:H:879:ARG:N	2.45	0.49
2:H:92:ALA:H	2:H:117:HIS:HB3	1.77	0.49
3:I:1148:VAL:C	3:I:1188:VAL:HG23	2.32	0.49
2:H:1046:ALA:HB1	3:I:1471:LEU:CG	2.42	0.49
3:I:162:ARG:HD3	3:I:162:ARG:C	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
2:H:889:HIS:CE1	3:I:951:ILE:H	2.26	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:HA	5:X:45:ASN:HD22	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: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
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
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: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
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
2:M:1075:ASP:HB2	4:O:31:LEU:HD11	1.94	0.49
2:M:122:THR:CG2	2:M:123:GLU:H	2.19	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:503:LEU:HD21	2:M:507:ARG:N	2.28	0.49
2:M:575:GLN:H	2:M:667:ALA:HB1	1.77	0.49
3:N:710:ARG:NH2	3:N:1210:SER:HB3	2.19	0.49
3:N:409:VAL:CG2	3:N:421:LEU:HA	2.43	0.49
3:N:93:ILE:CD1	3:N:548:ILE:HD11	2.43	0.49
3:N:705:ALA:HB3	3:N:706:PRO:CD	2.30	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:125:MET:HA	5:Y:140:LEU:CD1	2.43	0.49
5:Y:6:LYS:CD	5:Y:6:LYS:N	2.74	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
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
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
2:C:874:LEU:CD1	3:D:783:ARG:HB2	2.34	0.49
3:D:982:PHE:HD1	5:X:117:MET:HE2	1.78	0.49
1:F:101:LEU:CD2	1:F:102:LYS:H	2.21	0.49
1:F:194:LYS:HG2	1:F:194:LYS:O	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
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:HZ3	2:M:928:LYS:HA	1.75	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
3:N:1388:ARG:HA	3:N:1388:ARG:NE	2.28	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:98:PRO:O	3:N:458:ALA:HB3	2.13	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:80:LEU:CD2	3:N:844:ALA:HA	2.42	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:CG	1:B:186:LEU:O	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:153:LEU:HD13	3:D:154:THR:O	2.13	0.48
3:D:140:ALA:HB1	3:D:432:TYR:CE1	2.48	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: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:580:MET:HE1	2:H:665:PHE:HB3	1.95	0.48
2:H:688:ILE:HB	2:H:848:VAL:O	2.13	0.48
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: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
1:L:54:THR:HG21	1:L:158:ILE:HG13	1.96	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:1459:LEU:HD23	3:N:1470:ARG:HE	1.78	0.48
3:N:160:GLU:OE2	3:N:161:LEU:HG	2.12	0.48
3:N:766:ALA:O	3:N:924:MET:HE1	2.13	0.48
3:N:760:ARG:HH12	4:O:59:ASN:HD21	1.61	0.48
1:A:195:LEU:HD11	1:A:197:LEU:HD11	1.93	0.48
1:B:62:LEU:H	1:B:62:LEU:HD13	1.77	0.48
2:C:1042:ALA:HB2	3:D:1223:ILE:CG2	2.43	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:722:ILE:HD13	2:C:740:GLU:O	2.13	0.48
2:C:710:ILE:HD11	2:C:758:ARG:HD2	1.95	0.48

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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:1397:LYS:NZ	3:D:1432:LYS:HD2	2.28	0.48
3:D:700:VAL:HG13	3:D:718:PRO:HG2	1.95	0.48
1:F:41:ARG:HG3	1:F:41:ARG:HH11	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:179:VAL:CG2	3:I:189:GLN:HE22	2.24	0.48
3:I:50:PHE:CD2	3:I:522:PRO:HD3	2.48	0.48
2:M:129:ILE:HG22	2:M:130:ASN:OD1	2.13	0.48
3:N:1369:GLU:O	3:N:1372:VAL:CG1	2.59	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
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:N	2:C:905:ILE:HD12	2.26	0.48
3:D:1156:LEU:HD11	3:D:1176:LYS:HE3	1.94	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
1:F:170:VAL:O	1:F:170:VAL:HG23	2.11	0.48
1:F:33:GLY:O	1:F:195:LEU:HD22	2.13	0.48
2:H:679:PHE:C	2:H:681:GLY:H	2.16	0.48
2:H:53:PRO:CG	2:H:67:ASP:OD1	2.57	0.48
2:H:706:GLU:O	2:H:827:VAL:HG12	2.13	0.48
2:H:905:ILE:HD12	2:H:905:ILE:H	1.79	0.48
2:H:988:VAL:HG12	3:I:948:THR:CB	2.43	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:NH1	3:I:1096:ARG:HB3	2.28	0.48
3:I:1221:VAL:O	3:I:1222:GLY:C	2.52	0.48
3:I:600:LEU:CD1	3:I:600:LEU:H	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
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)
3:N:1148:VAL:HG23	3:N:1163:GLY:HA2	1.95	0.48
2:M:1042:ALA:HA	3:N:1220:ALA:CB	2.43	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:93:ILE:HD13	3:N:548:ILE:HD11	1.95	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
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
3:D:1481:VAL:HG13	4:E:18:ARG:NH2	2.22	0.48
3:D:184:GLU:OE1	3:D:184:GLU:HA	2.13	0.48
2:C:1056:LYS:HG2	3:D:624:ASP:OD2	2.13	0.48
3:D:639:LEU:C	3:D:639:LEU:HD12	2.33	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:F:36:LEU:O	1:F:39:PRO:HD2	2.13	0.48
1:G:86:VAL:HG12	1:G:124:ASN:HB2	1.95	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
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:148:PHE:CE2	2:H:309:TYR:HD1	2.31	0.48
3:I:1118:ILE:CD1	3:I:1190:SER:HB3	2.43	0.48
3:I:1109:GLU:OE2	3:I:1217:ILE:HD12	2.13	0.48
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
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:1013:TYR:CZ	2:M:1060:ILE:CD1	2.96	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
3:N:1026:SER:C	3:N:1028:ALA:H	2.17	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
3:N:467:GLU:O	3:N:468:LEU:C	2.51	0.48
3:N:578:VAL:O	3:N:582:LEU:HG	2.12	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: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
2:C:98:LEU:N	2:C:98:LEU:CD1	2.76	0.48
3:D:1252:ILE:CG1	3:D:1253:THR:N	2.66	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
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: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
2:H:425:PHE:CG	3:I:1239:ARG:NH2	2.82	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
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
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:1388:ARG:HE	3:N:1388:ARG:HA	1.78	0.48
3:N:141:ILE:HG13	3:N:448:GLU:CD	2.34	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:150:ARG:NH1	5:Z:152:VAL:HG22	2.28	0.48
5:Z:16:MET:O	5:Z:20:GLU:HG3	2.13	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:172:SER:C	1:B:174:VAL:H	2.17	0.48
1:B:44:LEU:HD23	1:B:177:VAL:HG11	1.93	0.48
1:B:65:PHE:CD1	3:D:813:LEU:HD22	2.49	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:1067:TYR:O	2:H:1071:ILE:HG13	2.13	0.48
2:H:540:PHE:HE1	2:H:905:ILE:HG21	1.78	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:565:GLN:CD	2:H:842:ARG:HG2	2.34	0.48
3:I:1149:LEU:HD23	3:I:1164:ARG:O	2.13	0.48
3:I:127:LEU:HB2	3:I:132:TYR:O	2.13	0.48
3:I:500:ARG:HH11	3:I:500:ARG:HG3	1.78	0.48
2:H:949:LYS:HD2	3:I:796:ARG:HH21	1.79	0.48
3:I:849:ALA:O	3:I:850:LEU:C	2.51	0.48
1:K:43:ILE:HG22	1:K:47:SER:HB2	1.96	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
2:M:139:GLN:OE1	2:M:334:ARG:HD2	2.13	0.48
2:M:442:GLU:HG3	2:M:442:GLU:O	2.14	0.48
2:M:929:ARG:HG3	2:M:929:ARG:NH1	2.29	0.48
3:N:1147:ARG:HB2	3:N:1166:LEU:HD21	1.96	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
5:Y:83:ILE:CG1	5:Y:154:ILE:HG12	2.44	0.48
1:A:85:LEU:HD12	1:A:124:ASN:HD22	1.79	0.48
1:A:38:ASN:HB3	1:A:39:PRO:HD3	1.95	0.48
1:B:138:LEU:HD22	1:B:138:LEU:C	2.33	0.48
1:B:26:GLU:HB2	1:B:27:PRO:HA	1.95	0.48
2:C:102:HIS:CE1	2:C:107:LEU:HD13	2.49	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:838:LYS:NZ	3:D:742:GLY:HA3	2.27	0.48
3:D:117:ASP:HB2	3:D:495:ARG:NH1	2.27	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1363:LEU:CD2	3:D:1363:LEU:N	2.76	0.48
3:D:421:LEU:HD21	3:D:429:SER:HB2	1.96	0.48
3:D:102:ILE:HD11	3:D:586:ARG:HG3	1.93	0.48
3:D:838:ARG:CG	3:D:863:VAL:HB	2.43	0.48
1:F:126:ASP:O	1:F:127:LEU:C	2.48	0.48
1:F:102:LYS:NZ	1:F:139:ASN:ND2	2.62	0.48
1:F:158:ILE:O	1:F:166:PRO:HG3	2.13	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
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: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
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
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:963:TYR:HE2	3:N:1002:LYS:HD3	1.79	0.48
3:N:1277:ILE:N	3:N:1277:ILE:HD12	2.28	0.48
3:N:1278:ASP:HB3	3:N:1320:GLU:HA	1.95	0.48
3:N:133:ILE:HG23	3:N:455:ARG:O	2.14	0.48
3:N:1440:PHE:CE1	3:N:1463:LYS:HE2	2.49	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:N	3:N:861:GLN:NE2	2.62	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:1029:GLY:HA3	3:D:626:SER:HG	1.79	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:HD12	2:C:745:ILE:H	1.78	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
2:C:1006:HIS:CD2	3:D:628:ARG:NH2	2.82	0.48
3:D:658:LEU:HD23	3:D:661:MET:HE2	1.96	0.48
3:D:857:ILE:HG22	3:D:858:VAL:CG1	2.42	0.48
3:D:843:PHE:O	3:D:866:VAL:HA	2.13	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:1084:SER:O	2:H:1087:VAL:HG12	2.14	0.48
2:H:196:LEU:CD2	2:H:200:LEU:HD21	2.44	0.48
2:H:164:PRO:HB2	2:H:265:ARG:H	1.77	0.48
2:H:304:LEU:C	2:H:304:LEU:HD23	2.33	0.48
2:H:391:LEU:C	2:H:391:LEU:HD23	2.34	0.48
2:H:30:LEU:HB3	2:H:44:ILE:CD1	2.44	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
3:I:1110:ALA:O	3:I:1111:ASP:HB3	2.13	0.48
3:I:654:LYS:CB	3:I:655:PRO:HD3	2.38	0.48
2:M:44:ILE:HD12	2:M:44:ILE:H	1.78	0.48
2:M:15:LEU:CD2	2:M:586:ARG:HG3	2.43	0.48
2:M:596:TYR:HB3	2:M:652:GLY:HA2	1.96	0.48
2:M:88:LEU:HA	2:M:814:GLU:OE1	2.14	0.48
3:N:1269:LYS:HG2	3:N:1270:ALA:N	2.28	0.48
3:N:1275:SER:HA	3:N:1303:TYR:OH	2.13	0.48
3:N:1274:ILE:HB	3:N:1322:GLY:HA2	1.96	0.48
3:N:1273:VAL:O	3:N:1325:LEU:HB2	2.14	0.48
3:N:1272:ALA:HB1	3:N:1326:THR:HB	1.94	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
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:HG3	3:N:988:ARG:HH11	1.77	0.48
5:Y:50:GLU:HA	5:Y:53:ARG:HD2	1.95	0.48
2:C:1090:LYS:HD3	2:C:1093:GLN:HG3	1.94	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:72:ARG:O	2:C:73:LEU:CB	2.61	0.48
3:D:1146:GLY:CA	3:D:1207:TYR:HB2	2.44	0.48
3:D:171:LEU:HB2	3:D:391:ALA:O	2.14	0.48
4:E:51:LEU:C	4:E:53:GLY:H	2.17	0.48
1:G:175:ARG:HB2	1:G:200:TRP:HB3	1.96	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
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:1189:ARG:NH1	3:I:1189:ARG:HG3	2.28	0.48
3:I:1107:VAL:O	3:I:1218:GLY:HA2	2.13	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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:769:LEU:HD12	3:I:924:MET:CE	2.44	0.48
1:K:142:VAL:HG23	1:K:142:VAL:O	2.14	0.48
1:K:89:PHE:C	1:K:90:LEU:HD12	2.34	0.48
1:L:163:ASN:ND2	1:L:163:ASN:O	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:1192:LEU:HD21	3:N:1372:VAL:HG13	1.96	0.48
3:N:118:LEU:HD23	3:N:123:LEU:HD23	1.95	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
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
5:X:7:LEU:HD21	5:X:108:ALA:HB3	1.95	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:A:54:THR:O	1:A:167:VAL:HG23	2.14	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: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
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
1:F:229:GLN:O	1:G:12:THR:HA	2.14	0.48
1:F:42:ARG:HH21	2:H:857:ASP:HB3	1.79	0.48
1:G:117:VAL:HB	1:G:120:VAL:HG21	1.95	0.48
1:G:56:VAL:HG22	1:G:142:VAL:HG12	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:CA	2:H:250:ARG:NH1	2.64	0.48
2:H:367:LEU:HB3	2:H:371:LYS:CB	2.44	0.48
2:H:347:GLY:HA3	2:H:378:LEU:HD12	1.96	0.48
2:H:486:MET:SD	2:H:491:GLU:HA	2.53	0.48
2:H:477:GLY:HA2	2:H:508:ILE:CD1	2.44	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
1:K:176:ARG:O	1:K:200:TRP:HE3	1.96	0.48
1:L:175:ARG:HB2	1:L:200:TRP:HB2	1.96	0.48
1:L:173:PRO:O	1:L:201:THR:HA	2.14	0.48
2:M:134:ARG:CZ	2:M:134:ARG:HB3	2.43	0.48
2:M:56:GLU:OE2	2:M:356:ARG:HD3	2.14	0.48
2:M:630:ARG:NH2	2:M:707:ARG:H	2.11	0.48
3:N:1440:PHE:CZ	3:N:1463:LYS:HE2	2.49	0.48
3:N:203:ALA:HB1	3:N:393:ILE:HG22	1.96	0.48
3:I:982:PHE:CZ	5:Y:119:ILE:CD1	2.97	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: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
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
4:E:6:ILE:HG13	4:E:10:PHE:CE1	2.49	0.47
1:G:87:VAL:HG12	1:G:122:ILE:HG22	1.95	0.47
2:H:196:LEU:HD21	2:H:200:LEU:HD21	1.96	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: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
1:F:63:HIS:CE1	2:H:801:VAL:HG23	2.49	0.47
2:H:835:VAL:HG13	2:H:836:GLY:N	2.28	0.47
3:I:1307:LYS:N	3:I:1307:LYS:HD3	2.29	0.47
3:I:701:LEU:HD21	3:I:763:MET:CE	2.43	0.47
1:L:44:LEU:HD13	1:L:199:ILE:HD12	1.95	0.47
2:M:1019:GLN:O	2:M:1021:LEU:HD12	2.14	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
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: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
3:N:766:ALA:HB3	4:O:2:ALA:HA	1.96	0.47
5:Y:89:VAL:HG11	5:Y:129:LEU:HD22	1.96	0.47
2:C:1081:VAL:CG1	2:C:1085:PHE:HD1	2.22	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:N	2:C:584:GLU:CD	2.65	0.47
2:C:91:GLN:NE2	2:C:383:ARG:HH12	2.12	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:111:LYS:HG3	3:I:1452:ILE:CD1	2.41	0.47
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
3:I:180:LYS:HZ3	3:I:180:LYS:HA	1.79	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:795:VAL:HG12	3:I:796:ARG:H	1.80	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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:1015:TYR:HB3	3:N:1018:ASN:HB2	1.96	0.47
3:N:109:PRO:O	3:N:111:LYS:N	2.47	0.47
3:N:1109:GLU:HG2	3:N:1201:CYS:HB3	1.97	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:95:LEU:HD23	3:N:96:ALA:H	1.78	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: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
2:C:154:ARG:C	2:C:156:GLY:H	2.17	0.47
2:C:141:HIS:NE2	2:C:332:ARG:HB3	2.29	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:953:VAL:CG1	2:C:962:GLN:HG2	2.44	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:NE2	3:D:1359:GLN:HA	2.29	0.47
3:D:470:LEU:N	3:D:470:LEU:HD23	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
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:1092:LEU:HD13	2:H:1097:LEU:HD23	1.96	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:892:LEU:HD13	2:H:989:VAL:HG23	1.95	0.47
3:I:1026:SER:C	3:I:1028:ALA:H	2.16	0.47
3:I:615:ARG:HH12	3:I:1439:SER:HB3	1.79	0.47
3:I:406:ASP:O	3:I:422:ALA:HB1	2.14	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
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: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
3:N:36:THR:C	3:N:38:LYS:H	2.16	0.47
3:N:813:LEU:C	3:N:813:LEU:HD12	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:98:PRO:HB3	3:N:513:ILE:HD13	1.96	0.47
4:O:30:LEU:HB3	4:O:35:PHE:CE1	2.49	0.47
1:B:218:LEU:CG	1:B:219:ARG:N	2.77	0.47
1:B:51:THR:HG22	1:B:89:PHE:CE2	2.49	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: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
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
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:1019:GLN:OE1	3:I:621:LYS:HB3	2.15	0.47
2:H:120:LEU:N	2:H:120:LEU:HD22	2.28	0.47
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:H	2:H:755:LEU:HD23	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:1031:ASN:HD21	5:Y:32:ASP:HB3	1.75	0.47
3:I:112:ILE:CD1	3:I:465:LEU:HD21	2.45	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:1313:VAL:HG13	3:N:1313:VAL:O	2.15	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
4:O:41:GLU:HA	4:O:45:ARG:NE	2.29	0.47
4:O:9:LEU:HD22	4:O:68:LEU:CD2	2.44	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: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
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
1:F:102:LYS:CB	1:F:138:LEU:O	2.62	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
1:G:58:ILE:HB	1:G:61:VAL:HB	1.96	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:54:ILE:HD13	2:H:355:VAL:CG2	2.44	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
2:H:88:LEU:HD13	2:H:89:THR:N	2.27	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:481:MET:CG	3:I:1388:ARG:NH2	2.73	0.47
3:I:361:VAL:HG11	3:I:367:ILE:HD11	1.96	0.47
3:I:36:THR:C	3:I:38:LYS:H	2.17	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:1109:VAL:HG21	3:N:5:VAL:HG13	1.95	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: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:569:VAL:HG12	2:M:996:LYS:HB3	1.92	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
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
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:100:LEU:HD22	1:F:115:LEU:CD2	2.45	0.47
1:F:64:GLU:HB2	1:F:165:ILE:HG12	1.96	0.47
2:H:1087:VAL:O	2:H:1091:GLU:HG3	2.15	0.47
2:H:163:ILE:HD13	2:H:171:TRP:CD1	2.49	0.47
2:H:193:LEU:N	2:H:193:LEU:CD1	2.75	0.47
2:H:390:GLN:NE2	2:H:390:GLN:H	2.13	0.47
2:H:29:ALA:O	2:H:44:ILE:HD13	2.14	0.47
2:H:755:LEU:HG	2:H:790:LEU:O	2.13	0.47
2:H:905:ILE:N	2:H:905:ILE:HD12	2.30	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
3:I:187:LYS:HD3	3:I:199:LEU:HA	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:452:ILE:HG12	3:I:453:ASP:O	2.15	0.47
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:N	3:I:871:LYS:HD2	2.29	0.47
3:I:936:TYR:HD1	3:I:937:TYR:CD1	2.32	0.47
2:H:987:ILE:CG2	3:I:948:THR:HG21	2.37	0.47
2:M:1036:GLU:CD	2:M:1036:GLU:N	2.68	0.47
2:M:1081:VAL:HG13	2:M:1085:PHE:HD1	1.79	0.47
2:M:679:PHE:O	2:M:681:GLY:N	2.48	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
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:112:ILE:CB	3:N:512:MET:HE3	2.40	0.47
2:M:1056:LYS:HB3	3:N:623:VAL:HG12	1.95	0.47
3:N:941:PHE:C	3:N:943:THR:N	2.68	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:B:185:ARG:HB2	3:D:720:LEU:HD23	1.97	0.47
1:B:85:LEU:HD12	1:B:124:ASN:HD22	1.78	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: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:41:ASN:HA	2:C:45:GLN:CD	2.34	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
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
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:44:LEU:HD21	3:D:545:ARG:HG2	1.96	0.47
3:D:486:ARG:HA	3:D:489:ARG:CG	2.43	0.47
3:D:804:LEU:HD11	3:D:830:ALA:C	2.34	0.47
3:D:86:ARG:O	3:D:86:ARG:HD3	2.14	0.47
4:E:54:LEU:CG	4:E:58:PRO:HB3	2.45	0.47
1:F:189:ARG:HD2	1:F:191:ASP:OD1	2.14	0.47
1:F:38:ASN:HB3	1:F:39:PRO:HD3	1.97	0.47
2:H:34:VAL:HG11	2:H:38:LYS:NZ	2.30	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:496:ILE:HB	2:H:516:ARG:HD2	1.97	0.47
2:H:861:LEU:CD2	2:H:862:PRO:HD2	2.44	0.47
3:I:1047:LYS:HZ1	3:I:1053:PHE:HA	1.78	0.47
3:I:1422:MET:CE	3:I:1427:SER:HA	2.45	0.47
3:I:141:ILE:HG23	3:I:448:GLU:OE2	2.15	0.47
3:I:467:GLU:O	3:I:468:LEU:C	2.52	0.47
3:I:729:HIS:CG	3:I:730:PRO:HD2	2.49	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
1:K:101:LEU:HD21	1:K:113:ASP:HB3	1.95	0.47
1:K:229:GLN:HG3	1:K:230:ALA:N	2.25	0.47
1:K:48:ILE:N	1:K:48:ILE:HD12	2.29	0.47
2:M:129:ILE:HD12	2:M:129:ILE:N	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:331:ARG:NH2	2:M:427:VAL:CG2	2.74	0.47
2:M:860:HIS:CE1	2:M:977:GLY:HA2	2.49	0.47
3:N:1197:ARG:CG	3:N:1198:TYR:H	2.21	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:766:ALA:CB	4:O:2:ALA:HA	2.45	0.47
5:X:123:SER:O	5:X:126:GLY:N	2.47	0.47
5:X:6:LYS:HD2	5:X:85:LEU:HD12	1.94	0.47
5:Y:44:GLU:C	5:Y:45:ASN:OD1	2.53	0.47
5:Z:115:THR:HB	5:Z:116:PRO:CD	2.43	0.47
1:A:138:LEU:O	1:A:138:LEU:HG	2.14	0.47
1:B:124:ASN:HD21	1:B:127:LEU:HD12	1.77	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:425:PHE:HA	2:C:428:ARG:HD2	1.95	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:963:TYR:HE2	3:D:1002:LYS:HB3	1.80	0.47
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
1:F:55:SER:HB2	1:F:166:PRO:HA	1.97	0.47
1:F:64:GLU:HG2	1:F:64:GLU:O	2.13	0.47
1:F:78:ILE:O	1:F:81:ASN:N	2.48	0.47
1:G:175:ARG:N	1:G:200:TRP:O	2.48	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:44:ILE:HG22	2:H:45:GLN:N	2.29	0.47
2:H:801:VAL:HG22	2:H:801:VAL:O	2.14	0.47
2:H:837:ASP:O	2:H:849:VAL:HG23	2.15	0.47
3:I:1379:VAL:HB	3:I:1418:LYS:C	2.35	0.47
3:I:142:LEU:HB3	3:I:143:ASN:H	1.51	0.47
3:I:1441:GLN:HG2	3:I:1442:ASN:H	1.80	0.47
3:I:189:GLN:NE2	3:I:191:LEU:HD23	2.29	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:764:LEU:HD23	3:I:767:HIS:CE1	2.50	0.47
3:I:850:LEU:N	3:I:850:LEU:HD12	2.16	0.47
4:J:41:GLU:N	4:J:42:PRO:CD	2.78	0.47
1:K:117:VAL:O	1:K:117:VAL:HG12	2.14	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:639:GLN:O	2:M:641:PRO:HD3	2.15	0.47
2:M:72:ARG:O	2:M:73:LEU:HB3	2.15	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:112:ILE:HG23	3:N:113:GLY:N	2.30	0.47
3:N:1374:GLN:HE22	3:N:1377:LYS:HD2	1.80	0.47
3:N:135:LEU:HG	3:N:149:LYS:O	2.15	0.47
3:N:651:GLU:C	3:N:653:PHE:H	2.16	0.47
5:X:114:ASP:HB2	5:X:118:LYS:HG3	1.97	0.47
5:Y:19:LEU:HD21	5:Y:66:GLU:HG2	1.97	0.47
5:Z:109:GLU:O	5:Z:110:ALA:C	2.52	0.47
5:Z:89:VAL:HA	5:Z:154:ILE:HG23	1.97	0.47
1:A:128:HIS:NE2	1:A:131:THR:HG23	2.30	0.47
1:A:45:LEU:HG	1:A:174:VAL:CB	2.44	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:1109:GLU:OE2	3:D:1201:CYS:SG	2.73	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

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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:1149:LEU:HD21	3:I:1164:ARG:HB3	1.96	0.47
3:I:119:SER:HB2	3:I:123:LEU:CB	2.38	0.47
3:I:1229:ILE:C	3:I:1232:PRO:HD2	2.35	0.47
3:I:118:LEU:HD22	3:I:123:LEU:HD23	1.96	0.47
3:I:1262:LEU:HD21	3:I:1351:GLU:HG3	1.96	0.47
3:I:33:ASN:HD22	3:I:34:TYR:H	1.62	0.47
3:I:209:ARG:NH2	3:I:390:PRO:O	2.45	0.47
3:I:162:ARG:NH1	3:I:450:TYR:HB3	2.29	0.47
3:I:660:LYS:HG3	3:I:664:LYS:CE	2.41	0.47
3:I:710:ARG:C	3:I:712:GLY:H	2.16	0.47
3:I:702:LEU:O	3:I:713:ILE:HA	2.14	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
1:L:92:PRO:O	1:L:146:ARG:NH2	2.48	0.47
2:M:1071:ILE:O	3:N:659:LYS:HD2	2.15	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
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
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
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: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: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
2:C:118:ILE:O	2:C:118:ILE:HD12	2.15	0.47
2:C:532:MET:HG2	2:C:533:ASP:N	2.29	0.47
2:C:470:PRO:HB2	2:C:534:VAL:HG21	1.95	0.47
1:A:133:GLU:OE2	2:C:605:LYS:HG2	2.15	0.47
2:C:69:LEU:HB2	2:C:97:ARG:O	2.15	0.47
3:D:650:LEU:HD13	3:D:688:TRP:HZ3	1.77	0.47
3:D:990:ASP:HA	3:D:993:LEU:HD12	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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
2:H:9:ILE:O	2:H:9:ILE:HG13	2.14	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
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
1:L:207:PRO:O	1:L:210:ALA:HB3	2.15	0.47
1:L:81:ASN:ND2	1:L:129:ILE:HD13	2.30	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: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
3:N:11:ALA:HB2	3:N:1454:GLY:HA2	1.97	0.47
3:N:179:VAL:HG12	3:N:180:LYS:N	2.29	0.47
3:N:187:LYS:HE3	3:N:187:LYS:HB2	1.76	0.47
3:N:812:ALA:HA	3:N:816:HIS:HD1	1.80	0.47
3:N:99:ALA:HB3	3:N:514:LEU:HD11	1.97	0.47
5:X:102:VAL:CG1	5:X:103:GLN:N	2.78	0.47
3:D:980:MET:HA	5:X:142:THR:CG2	2.45	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
3:D:1299:PHE:N	3:D:1299:PHE:CD2	2.83	0.47
3:D:162:ARG:HE	3:D:452:ILE:CG1	2.20	0.47
3:D:112:ILE:HB	3:D:512:MET:HE3	1.97	0.47
2:C:1031:ARG:NH2	3:D:621:LYS:NZ	2.58	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
1:F:226:SER:OG	1:F:227:ASN:N	2.48	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:56:VAL:HG21	1:F:82:LEU:HD13	1.97	0.47
1:F:58:ILE:HG22	1:F:59:GLU:N	2.29	0.47
2:H:1088:LEU:HG	3:I:613:ARG:HD2	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:402:SER:HA	2:H:566:THR:HG23	1.96	0.47
2:H:72:ARG:O	2:H:73:LEU:HB3	2.14	0.47
3:I:1205:TYR:CE2	3:I:1215:VAL:HG21	2.49	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
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:1117:TYR:HB3	3:N:1150:ALA:CB	2.44	0.47
3:N:1166:LEU:N	3:N:1166:LEU:HD23	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
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
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:1389:LEU:HD12	3:I:1390:LEU:HD22	1.97	0.46
3:I:185:VAL:HG11	3:I:191:LEU:HD21	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:426:LYS:O	3:I:428:LYS:HG3	2.16	0.46
3:I:539:ASP:O	3:I:540:LEU:C	2.54	0.46
1:L:37:GLY:HA2	1:L:197:LEU:HD11	1.96	0.46
2:M:1056:LYS:HB3	3:N:623:VAL:CG1	2.46	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
3:N:1108:ARG:NE	3:N:1199:GLY:HA3	2.24	0.46
3:N:119:SER:HB3	3:N:123:LEU:N	2.27	0.46
3:N:152:LEU:HD12	3:N:152:LEU:C	2.35	0.46
3:N:133:ILE:HD12	3:N:158:TYR:CE2	2.50	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
4:O:15:SER:O	4:O:18:ARG:HB3	2.15	0.46
3:N:761:ILE:CD1	4:O:20:THR:HA	2.36	0.46
1:A:179:PHE:CB	1:A:197:LEU:HG	2.45	0.46
2:C:1085:PHE:O	2:C:1089:VAL:HG23	2.15	0.46
2:C:226:VAL:HG13	2:C:227:PHE:HD1	1.80	0.46
2:C:200:LEU:HB3	2:C:300:ASP:OD1	2.16	0.46
2:C:442:GLU:O	2:C:442:GLU:HG3	2.16	0.46
2:C:833:LEU:HD11	2:C:996:LYS:HD3	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
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
1:F:43:ILE:HG13	1:F:44:LEU:N	2.30	0.46
1:G:115:LEU:O	1:G:115:LEU:HD12	2.15	0.46
2:H:1002:GLU:HG3	2:H:1003:ASP:N	2.30	0.46
2:H:135:VAL:O	2:H:392:SER:HA	2.15	0.46
2:H:3:ILE:O	2:H:3:ILE:HG13	2.15	0.46
2:H:467:ILE:HD12	2:H:467:ILE:N	2.29	0.46
2:H:554:ASP:OD2	2:H:556:ASN:HB3	2.16	0.46
2:H:724:ARG:CZ	2:H:724:ARG:HB3	2.44	0.46
2:H:948:GLU:HB3	2:H:955:PRO:HG3	1.97	0.46
2:H:516:ARG:HH21	3:I:1068:LEU:HD11	1.81	0.46
3:I:1200:VAL:HG12	3:I:1201:CYS:H	1.79	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:1148:VAL:HG21	3:I:1203:LYS:HA	1.96	0.46
3:I:1236:LEU:CB	3:I:1256:LEU:HB2	2.45	0.46
3:I:138:LYS:CD	3:I:138:LYS:H	2.28	0.46
3:I:138:LYS:H	3:I:138:LYS:CE	2.27	0.46
2:H:1103:ASP:CB	3:I:2:LYS:HG3	2.45	0.46
3:I:462:GLN:HG3	3:I:513:ILE:HG12	1.98	0.46
3: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:84:ILE:HD13	3:I:84:ILE:H	1.80	0.46
1:K:90:LEU:HD13	1:K:119:ASP:O	2.14	0.46
1:K:73:GLU:HB3	1:K:77:GLU:HG2	1.98	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
3:N:1149:LEU:HD21	3:N:1161:GLU:O	2.14	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:HA	3:N:832:ARG:NE	2.30	0.46
3:N:983:LEU:HB2	3:N:987:GLU:HB3	1.96	0.46
1:A:102:LYS:HA	1:A:138:LEU:HD11	1.98	0.46
1:A:90:LEU:HB2	1:A:119:ASP:CG	2.34	0.46
2:C:1105:LYS:HB2	2:C:1105:LYS:NZ	2.30	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
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: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: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:154:ARG:HG2	2:H:154:ARG:NH1	2.30	0.46
2:H:129:ILE:HG21	2:H:387:SER:HB3	1.96	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:74:GLY:C	2:H:76:PRO:HD3	2.36	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:1098:LEU:CG	3:I:1226:ALA:HA	2.45	0.46
3:I:130:SER:OG	3:I:131:LYS:N	2.47	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
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
1:L:13:VAL:HG12	1:L:14:ARG:N	2.30	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
1:L:54:THR:O	1:L:167:VAL:N	2.46	0.46
2:M:1036:GLU:CD	2:M:1036:GLU:H	2.19	0.46
2:M:589:ARG:NH1	2:M:596:TYR:CE2	2.83	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
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
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:1050:GLN:HE21	3:D:1471:LEU:N	2.13	0.46
2:C:605:LYS:HB2	2:C:612:VAL:HG23	1.97	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
3:D:1237:THR:CG2	3:D:1238:MET:N	2.75	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:87:ARG:HA	3:D:521:PRO:CB	2.46	0.46
3:D:984:THR:HG22	3:D:987:GLU:H	1.80	0.46
1:F:56:VAL:HG12	1:F:57:TYR:N	2.30	0.46
1:F:39:PRO:HA	1:G:35:THR:HG22	1.95	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:594:ALA:HB1	2:H:656:ALA:O	2.16	0.46
2:H:571:LEU:HD23	2:H:670:GLN:HE21	1.79	0.46
2:H:873:PRO:O	2:H:876:VAL:HG23	2.15	0.46
3:I:1277:ILE:HG12	3:I:1299:PHE:CZ	2.51	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

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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:100:ALA:C	3:N:514:LEU:HD23	2.35	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:118:LEU:CD2	3:N:123:LEU:HD23	2.45	0.46
3:N:1422:MET:HG3	3:N:1427:SER:OG	2.16	0.46
3:N:195:VAL:HG12	3:N:196:VAL:N	2.30	0.46
3:N:26:VAL:HG13	3:N:42:ASP:O	2.15	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
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: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
2:C:162:ILE:HG22	2:C:164:PRO:HD3	1.97	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
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
1:F:11:PHE:HB2	1:G:224:TYR:O	2.15	0.46
1:G:227:ASN:HD22	1:G:227:ASN:N	2.12	0.46
1:G:90:LEU:HD23	1:G:91:ASN:N	2.30	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:1264:GLU:OE2	3:I:1424:VAL:HG12	2.14	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
2:M:1050:GLN:HA	2:M:1053:LEU:CD2	2.46	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:535:SER:OG	2:M:537:LYS:HD3	2.16	0.46
2:M:841:ASN:HD21	2:M:884:GLN:HG2	1.80	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:1090:LYS:HA	2:C:1093:GLN:CG	2.45	0.46
2:C:196:LEU:HD22	2:C:200:LEU:HD21	1.98	0.46
2:C:673:LEU:CD2	2:C:673:LEU:C	2.84	0.46
2:C:678:PRO:HD3	2:C:873:PRO:HG2	1.96	0.46
2:C:953:VAL:HG11	2:C:962:GLN:CG	2.45	0.46
2:C:892:LEU:HD13	2:C:989:VAL:HG23	1.97	0.46
3:D:138:LYS:CE	3:D:138:LYS:H	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: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
2:H:92:ALA:C	2:H:117:HIS:HB3	2.35	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:HB3	3:I:1304:LYS:NZ	2.31	0.46
3:I:198:ARG:HA	3:I:198:ARG:CZ	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:15:PRO:HB3	3:I:515:GLU:HG3	1.98	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: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:834:GLN:H	2:M:837:ASP:CG	2.18	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:872:ASN:HD21	2:M:874:LEU:HB2	1.80	0.46
2:M:1095:LEU:HB2	3:N:101:HIS:HE2	1.79	0.46
3:N:119:SER:CB	3:N:123:LEU:HB2	2.31	0.46
3:N:397:LYS:O	3:N:397:LYS:HG3	2.16	0.46
3:N:520:LEU:HG	3:N:521:PRO:CD	2.46	0.46
2:M:1086:ARG:HD2	3:N:88:TYR:CD2	2.51	0.46
2:M:676:ILE:HD11	3:N:949:ILE:HB	1.98	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
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:642:ARG:HG2	2:C:642:ARG:NH1	2.30	0.46
2:C:630:ARG:HD3	2:C:705:ILE:HB	1.98	0.46
2:C:550:LEU:HG	3:D:1070:TYR:HE1	1.81	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
1:B:190:THR:CG2	3:D:722:GLU:HG2	2.45	0.46
3:D:835:SER:N	3:D:838:ARG:HD3	2.30	0.46
3:D:842:VAL:O	3:D:842:VAL:HG23	2.15	0.46
3:D:696:HIS:CE1	4:E:54:LEU:HD11	2.50	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:HH11	2:H:824:ARG:HG2	1.80	0.46
2:H:858:MET:HE2	2:H:859:PRO:CD	2.45	0.46
3:I:547:LEU:HG	3:I:548:ILE:HD12	1.98	0.46
2:H:1039:ALA:CB	3:I:713:ILE:HD11	2.43	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
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
3:N:166:GLN:HE21	3:N:396:VAL:HG11	1.80	0.46
2:M:1109:VAL:HG11	3:N:5:VAL:HG22	1.98	0.46
3:N:729:HIS:NE2	3:N:731:LEU:HD12	2.31	0.46
5:Y:62:ILE:HG23	5:Y:63:ASP:N	2.30	0.46
1:A:170:VAL:O	1:A:170:VAL:HG23	2.15	0.46
1:A:30:ARG:HD2	3:D:855:HIS:HE1	1.81	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:637:LEU:HD23	2:C:659:PRO:HG2	1.98	0.46
2:C:606:VAL:HG11	2:C:644:VAL:C	2.36	0.46
3:D:1470:ARG:HG2	3:D:1470:ARG:HH11	1.79	0.46
3:D:1492:LEU:C	3:D:1492:LEU:HD13	2.36	0.46
3:D:162:ARG:HH21	3:D:452:ILE:CG2	2.29	0.46
3:D:128:TYR:HE2	3:D:458:ALA:HA	1.79	0.46
3:D:563:PRO:CG	3:D:566:ILE:HD12	2.46	0.46
3:D:684:LYS:CD	3:D:684:LYS:H	2.28	0.46
3:D:644:LEU:O	3:D:721:VAL:HG22	2.16	0.46
2:C:848:VAL:HG23	3:D:740:PHE:C	2.36	0.46
1:G:176:ARG:NH2	3:I:884:ARG:NH1	2.64	0.46
2:H:1052:MET:HA	2:H:1052:MET:HE2	1.96	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: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: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
2:M:839:LEU:HB2	2:M:995:MET:O	2.15	0.46
3:N:105:VAL:HG22	3:N:112:ILE:CG2	2.45	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
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
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:O	5:X:76:GLU:HG2	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:1024:LYS:HG3	2:C:1025:ALA:H	1.81	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
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
3:D:470:LEU:CD2	3:D:470:LEU:H	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
4:E:51:LEU:O	4:E:53:GLY:N	2.43	0.46
1:F:117:VAL:O	1:F:117:VAL:HG12	2.15	0.46
1:F:36:LEU:HD12	1:F:195:LEU:HD23	1.98	0.46
1:G:100:LEU:HB2	1:G:115:LEU:CD1	2.37	0.46
2:H:184:MET:HB2	2:H:193:LEU:CG	2.45	0.46
2:H:145:GLY:HA3	2:H:276:LYS:HG2	1.98	0.46
2:H:325:ILE:H	2:H:325:ILE:HD12	1.81	0.46
2:H:626:ARG:CB	2:H:639:GLN:HE22	2.29	0.46
2:H:578:VAL:N	2:H:671:ASN:ND2	2.64	0.46
2:H:950:LEU:HD12	2:H:952:LEU:CD2	2.46	0.46
3:I:1388:ARG:N	3:I:1391:GLU:OE2	2.49	0.46
3:I:892:ASP:OD2	3:I:895:VAL:N	2.48	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:1136:LYS:O	3:N:1140:ILE:HG12	2.15	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:C	3:N:613:ARG:HD3	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
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: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:71:TYR:CD2	2:C:71:TYR:N	2.84	0.46
2:C:967:PHE:HD1	2:C:972:VAL:HG12	1.80	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
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
1:G:195:LEU:HD13	1:G:195:LEU:C	2.36	0.46
2:H:1000:MET:HG3	2:H:1001:VAL:N	2.25	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
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
3:I:582:LEU:O	3:I:604:THR:HG23	2.16	0.46
1:K:57:TYR:HB2	1:K:164:ALA:HB2	1.98	0.46
1:K:88:ARG:NH1	1:K:88:ARG:HB3	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:1188:VAL:CG2	3:N:1189:ARG:N	2.79	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
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:145:VAL:CG2	3:D:146:PRO:HD2	2.46	0.45
3:D:45:PHE:HD1	3:D:522:PRO:HB3	1.80	0.45
2:H:136:ILE:O	2:H:136:ILE:HG22	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: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
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:HG2	3:I:679:ARG:O	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
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:1048:THR:HA	3:N:755:ALA:HB1	1.97	0.45
2:M:204:GLN:HB3	2:M:222:MET:HE3	1.98	0.45
2:M:428:ARG:HH11	2:M:428:ARG:HG2	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
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: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: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:1032:PHE:O	2:C:1036:GLU:HB2	2.17	0.45
2:C:1053:LEU:O	2:C:1053:LEU:HG	2.15	0.45
2:C:1063:ARG:HD2	2:C:1064:ASN:N	2.31	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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:540:LEU:N	3:D:540:LEU:HD13	2.29	0.45
3:D:585:GLY:C	3:D:587:ARG:H	2.20	0.45
3:D:781:PRO:HB2	3:D:786:ILE:HD11	1.98	0.45
1:F:57:TYR:HB3	1:F:141:GLU:HG2	1.97	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
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:N	2:H:382:ILE:HD12	2.31	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:926:PHE:HA	2:H:929:ARG:HG3	1.97	0.45
2:H:839:LEU:HB2	2:H:995:MET:O	2.16	0.45
2:H:69:LEU:HD11	2:H:99:GLN:HG2	1.98	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
3:I:123:LEU:HD11	3:I:152:LEU:HD11	1.98	0.45
3:I:1295:GLU:HB3	3:I:1300:SER:CB	2.41	0.45
2:H:949:LYS:HD2	3:I:796:ARG:NH2	2.32	0.45
3:I:805:GLU:H	3:I:805:GLU:CD	2.19	0.45
3:I:871:LYS:CD	3:I:871:LYS:N	2.79	0.45
3:I:911:LEU:O	3:I:912:LYS:C	2.54	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: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
2:M:516:ARG:CZ	2:M:516:ARG:HB3	2.46	0.45
2:M:574:ALA:HB1	2:M:667:ALA:HB3	1.97	0.45
2:M:69:LEU:HG	2:M:98:LEU:HA	1.98	0.45
2:M:859:PRO:O	2:M:867:VAL:HG13	2.15	0.45
1:A:168:ASP:OD2	2:C:832:LYS:NZ	2.49	0.45
1:B:218:LEU:HD11	1:B:222:LEU:HD11	1.98	0.45
1:B:97:VAL:HG11	1:B:120:VAL:HG11	1.99	0.45
2:C:137:VAL:O	2:C:391:LEU:HD21	2.17	0.45
2:C:405:ARG:NH1	2:C:563:ASN:HA	2.31	0.45
2:C:139:GLN:HE22	2:C:415:PRO:HD2	1.80	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:568:ALA:HB2	2:C:995:MET:HE1	1.98	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1355:VAL:O	3:D:1359:GLN:HG2	2.16	0.45
3:D:213:VAL:HG12	3:D:214:GLU:H	1.80	0.45
3:D:808:THR:OG1	3:D:809:PRO:HD3	2.16	0.45
1:B:80:LEU:HD23	3:D:867:ARG:NH2	2.31	0.45
3:D:970:LYS:HG3	3:D:971:LEU:N	2.30	0.45
1:G:57:TYR:C	1:G:58:ILE:HD13	2.36	0.45
2:H:1065:ALA:C	2:H:1077:PRO:HG2	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
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
3:I:32:ILE:CD1	3:I:39:PRO:HG3	2.47	0.45
3:I:860:LEU:CG	3:I:861:GLN:HE22	2.29	0.45
3:I:843:PHE:O	3:I:866:VAL:HA	2.16	0.45
3:I:947:ILE:CD1	3:I:947:ILE:O	2.64	0.45
3:I:982:PHE:HA	5:Y:125:MET:SD	2.57	0.45
1:L:149:GLY:O	1:L:171:PHE:HD2	1.99	0.45
1:L:54:THR:HG23	1:L:156:HIS:CE1	2.51	0.45
1:L:43:ILE:HG22	1:L:47:SER:HB2	1.98	0.45
2:M:328:LEU:HD21	2:M:438:ILE:HD11	1.98	0.45
2:M:448:ASN:HA	2:M:448:ASN:HD22	1.56	0.45
2:M:39:ARG:HH21	2:M:45:GLN:NE2	2.15	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:1346:ARG:HG3	3:N:1346:ARG:HH11	1.80	0.45
3:N:991:GLN:CA	3:N:991:GLN:HE21	2.25	0.45
4:O:48:MET:CB	4:O:54:LEU:HB2	2.44	0.45
1:A:85:LEU:HD12	1:A:124:ASN:ND2	2.31	0.45
1:A:39:PRO:O	1:A:43:ILE:HG13	2.17	0.45
1:B:227:ASN:H	1:B:227:ASN:ND2	2.10	0.45
2:C:1019:GLN:NE2	2:C:1057:SER:OG	2.43	0.45
2:C:1078:GLU:CD	2:C:1078:GLU:N	2.70	0.45
2:C:127:PHE:CD1	2:C:136:ILE:HD13	2.51	0.45
2:C:163:ILE:HG12	2:C:163:ILE:O	2.15	0.45
2:C:333:ILE:HG23	2:C:334:ARG:N	2.30	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
3:D:794:GLN:HG2	3:D:1017:PHE:HE2	1.80	0.45
3:D:1330:ILE:HD12	3:D:1330:ILE:N	2.32	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:1464:GLU:HA	3:D:1467:ILE:HD11	1.99	0.45
3:D:1467:ILE:HG13	3:D:1467:ILE:H	1.44	0.45
3:D:379:ALA:O	3:D:380:GLU:HG3	2.15	0.45
3:D:137:PRO:HD2	3:D:453:ASP:O	2.17	0.45
2:C:1045:ALA:HB2	3:D:763:MET:SD	2.57	0.45
3:D:783:ARG:HE	3:D:1029:ARG:CD	2.28	0.45
3:D:987:GLU:OE1	5:X:120:SER:HB2	2.17	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:1090:LYS:HG2	2:H:1112:PHE:HZ	1.81	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:91:GLN:HB3	2:H:117:HIS:CB	2.46	0.45
2:H:926:PHE:HD1	2:H:929:ARG:HG3	1.80	0.45
2:H:73:LEU:HB3	2:H:94:LEU:HA	1.99	0.45
3:I:1434:TRP:C	3:I:1434:TRP:CD1	2.89	0.45
3:I:199:LEU:HD23	3:I:200:ASP:H	1.79	0.45
3:I:804:LEU:CD2	3:I:829:VAL:HB	2.46	0.45
3:I:789:LEU:CD1	3:I:934:LEU:HD22	2.45	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:1052:MET:SD	2:M:1056:LYS:HD2	2.57	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
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
3:N:514:LEU:HD13	3:N:517:VAL:HG22	1.97	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:964:LEU:HG	3:D:1058:ARG:HH22	1.81	0.45
3:D:1167:SER:H	3:D:1170:ASP:CG	2.20	0.45
3:D:1148:VAL:H	3:D:1188:VAL:HG23	1.82	0.45
3:D:1256:LEU:N	3:D:1257:PRO:HD2	2.32	0.45
3:D:1101:VAL:HG21	3:D:1424:VAL:HG23	1.98	0.45
3:D:792:ILE:CG2	3:D:793:THR:N	2.79	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:977:ALA:HB1	3:D:983:LEU:HD21	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
2:H:173:ASP:O	2:H:184:MET:HA	2.17	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:688:ILE:CD1	2:H:847:GLY:HA3	2.46	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:103:ALA:H	1:L:138:LEU:HD13	1.80	0.45
2:M:1037:VAL:O	2:M:1040:LEU:N	2.49	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
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
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
1:L:80:LEU:HD23	3:N:844:ALA:HA	1.99	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:367:LEU:HB2	2:C:371:LYS:CB	2.47	0.45
2:C:44:ILE:CD1	2:C:44:ILE:N	2.79	0.45
2:C:73:LEU:CB	2:C:93:PRO:O	2.61	0.45
3:D:794:GLN:HG2	3:D:1017:PHE:CE2	2.51	0.45
3:D:473:LEU:N	3:D:473:LEU:HD12	2.30	0.45
3:D:474:GLU:HG3	3:D:496:LEU:HD11	1.99	0.45
3: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:184:MET:HB2	2:H:193:LEU:CD1	2.47	0.45
2:H:144:PRO:HB2	2:H:265:ARG:CD	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:1307:LYS:CD	3:I:1307:LYS:H	2.30	0.45
3:I:1347:TYR:O	3:I:1351:GLU:HB2	2.16	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
1:L:179:PHE:HB3	1:L:197:LEU:HD21	1.98	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
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:54:ILE:HG12	2:M:64:LEU:CD2	2.47	0.45
2:M:73:LEU:C	2:M:73:LEU:HD13	2.36	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
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
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:875:THR:OG1	3:N:879:ARG:HG3	2.16	0.45
3:N:793:THR:HB	3:N:879:ARG:NH1	2.31	0.45
3:N:84:ILE:HA	3:N:87:ARG:HG2	1.99	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:108:GLU:OE2	1:B:110:LYS:HG3	2.16	0.45
1:B:42:ARG:HG2	1:B:42:ARG:HH11	1.82	0.45
2:C:1090:LYS:HD2	3:D:90:MET:SD	2.56	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:5:ARG:HB2	2:C:5:ARG:NH1	2.31	0.45
2:C:798:GLY:HA3	2:C:828:ALA:O	2.17	0.45
3:D:1108:ARG:CG	3:D:1108:ARG:O	2.63	0.45
3:D:1283:ILE:HD12	3:D:1315:ASP:OD2	2.17	0.45
3:D:89:ARG:C	3:D:521:PRO:HG3	2.36	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:639:LEU:CD1	3:D:766:ALA:HB2	2.47	0.45
3:D:827:ILE:H	3:D:827:ILE:HD12	1.82	0.45
1:B:80:LEU:CG	3:D:844:ALA:HB2	2.45	0.45
1:F:137:ARG:HG3	1:F:137:ARG:HH11	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:1013:TYR:CE1	2:H:1020:PRO:HG3	2.49	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:47:ALA:HB1	2:H:348:LEU:HD22	1.98	0.45
2:H:37:GLU:O	2:H:39:ARG:HG3	2.17	0.45
2:H:524:VAL:HG12	2:H:525:SER:O	2.17	0.45
2:H:839:LEU:CD2	2:H:839:LEU:N	2.79	0.45
3:I:1127:GLU:HG2	3:I:1128:VAL:N	2.32	0.45
3:I:1348:LEU:N	3:I:1348:LEU:HD13	2.32	0.45
3:I:1344:VAL:O	3:I:1348:LEU:HD22	2.16	0.45
3:I:1394:VAL:HG12	3:I:1396:GLU:H	1.82	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
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
3:N:1481:VAL:O	3:N:1483:PHE:N	2.50	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
2:M:848:VAL:HG23	3:N:740:PHE:C	2.36	0.45
3:N:941:PHE:O	3:N:943:THR: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:1100:GLN:NE2	2:C:1100:GLN:HA	2.31	0.45
2:C:572:ILE:HG12	2:C:573:ARG:HG3	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:692:GLU:HB3	2:C:854:PRO:HA	1.99	0.45
2:C:937:ASP:CB	2:C:940:GLU:HG3	2.47	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:944:LEU:O	2:C:947:ALA:HB3	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
3:D:355:VAL:HG13	3:D:356:PRO:HD2	1.99	0.45
3:D:447:VAL:HG13	3:D:447:VAL:O	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:HG12	3:D:951:ILE:O	2.17	0.45
2:H:100:LEU:O	2:H:101:ILE:HD13	2.16	0.45
2:H:1096:ALA:O	2:H:1097:LEU:C	2.55	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
3:I:1084:THR:OG1	5:Y:43:ARG:HD3	2.16	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
2:M:1066:ALA:N	2:M:1077:PRO:HG2	2.31	0.45
2:M:129:ILE:HD13	2:M:134:ARG:CG	2.43	0.45
2:M:186:VAL:O	2:M:186:VAL:HG23	2.17	0.45
2:M:267:TYR:HD2	2:M:267:TYR:N	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
1:K:70:GLY:H	2:M:607:ASP:CG	2.20	0.45
3:N:1034:GLN:HA	3:N:1037:GLN:NE2	2.23	0.45
3:N:1115:THR:HG22	3:N:1115:THR:O	2.16	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
5:X:115:THR:CB	5:X:116:PRO:CD	2.91	0.45
5:Y:127:LYS:O	5:Y:127:LYS:HD3	2.16	0.45
5:Y:44:GLU:O	5:Y:45:ASN:HB3	2.17	0.45
5:Z:136:ASP:O	5:Z:150:ARG:HA	2.17	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
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:71:VAL:HG22	1:B:132:LEU:CD2	2.47	0.45
1:B:51:THR:HG21	1:B:87:VAL:HG22	1.99	0.45
2:C:1031:ARG:HH21	3:D:621:LYS:HZ2	1.60	0.45
2:C:1037:VAL:HG13	2:C:1049:LEU:HD11	1.98	0.45
2: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
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: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
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
1:L:143:ARG:HD3	1:L:160:ASP:OD1	2.17	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
2:M:165:LEU:HB3	2:M:265:ARG:NH1	2.32	0.45
2:M:325:ILE:N	2:M:325:ILE:HD12	2.31	0.45
2:M:479:VAL:HG23	2:M:479:VAL:O	2.15	0.45
2:M:457:ALA:HB3	2:M:538:GLN:HA	1.98	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
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
3:N:415:VAL:HG12	3:N:416:ALA:N	2.31	0.45
3:N:850:LEU:N	3:N:850:LEU:HD12	2.31	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: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
2:C:1095:LEU:HB3	3:D:603:LEU:CD1	2.31	0.45
2:C:477:GLY:HA2	2:C:508:ILE:HD11	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:472:ARG:O	2:C:531:PHE:HD1	2.00	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
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:8:VAL:HG12	3:D:1434:TRP:CZ2	2.51	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:1055:LEU:HG	2:H:1079:PRO:HG2	1.98	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:45:GLN:OE1	2:H:49:ARG:NH2	2.50	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
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
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: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:NH1	2:M:516:ARG:HB3	2.32	0.45
2:M:606:VAL:O	2:M:606:VAL:HG23	2.17	0.45
2:M:65:VAL:HB	2:M:101:ILE:O	2.17	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
3:N:720:LEU:N	3:N:720:LEU:HD22	2.31	0.45
3:N:727:GLN:HB3	3:N:727:GLN:HE21	1.66	0.45
3:N:823:LEU:HD23	3:N:823:LEU:N	2.32	0.45
3:N:982:PHE:HD2	3:N:983:LEU:N	2.15	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:HG12	1:A:78:ILE:H	1.46	0.44
1:B:199:ILE:HD13	1:B:211:LEU:HD11	1.99	0.44
1:B:53:VAL:HG13	1:B:142:VAL:CG2	2.47	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:689:VAL:CG1	2:C:690:ILE:H	2.24	0.44
2:C:630:ARG:HH21	2:C:706:GLU:CA	2.30	0.44
3:D:1152:GLU:HB2	3:D:1162:GLU:N	2.32	0.44
3:D:116:LEU:O	3:D:117:ASP:HB3	2.17	0.44
3:D:1231:GLU:CB	3:D:1232:PRO:HD3	2.47	0.44
3:D:130:SER:O	3:D:568:ARG:CZ	2.65	0.44
3:D:1381:VAL:HG22	3:D:1398:TRP:HH2	1.81	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
4:E:40:LEU:O	4:E:40:LEU:HD12	2.17	0.44
1:F:199:ILE:HG22	1:F:200:TRP:N	2.32	0.44
1:F:20:TYR:HD2	1:F:21:GLY:H	1.64	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:1189:ARG:HG3	3:I:1189:ARG:HH11	1.82	0.44
3:I:366:LYS:HZ1	3:I:378:ILE:HD12	1.83	0.44
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: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:1117:TYR:CD1	3:N:1117:TYR:C	2.91	0.44
3:N:1468:LEU:CD2	3:N:1468:LEU:H	2.30	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:N	3:N:722:GLU:OE1	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
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:105:VAL:O	5:Z:121:ASP:N	2.50	0.44
5:Z:83:ILE:HD12	5:Z:132:HIS:HB2	1.99	0.44
1:A:206:THR:OG1	1:A:207:PRO:CD	2.65	0.44
1:A:20:TYR:HE2	1:A:198:ARG:HB2	1.81	0.44
1:B:48:ILE:HB	1:B:172:SER:OG	2.16	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:37:GLY:HA3	1:B:179:PHE:HD1	1.82	0.44
1:B:56:VAL:HG12	1:B:57:TYR:N	2.33	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:HE21	2:C:1100:GLN:HA	1.82	0.44
2:C:334:ARG:NH1	2:C:418:LEU:HD21	2.32	0.44
2:C:50:GLU:CG	2:C:51:THR:N	2.77	0.44
2:C:928:LYS:O	2:C:932:GLU:HG3	2.16	0.44
3:D:477:LEU:CD1	3:D:499:VAL:HG21	2.47	0.44
3:D:525:ARG:HH11	3:D:525:ARG:HG2	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: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:38:LYS:O	2:H:40:GLU:N	2.50	0.44
2:H:741:GLY:O	2:H:756:VAL:HA	2.17	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
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:50:PHE:HD2	3:I:89:ARG:O	1.99	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
2:H:876:VAL:HG11	3:I:949:ILE:HG21	1.99	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:1041:LEU:HD13	3:N:1057:VAL:O	2.17	0.44
3:N:119:SER:H	3:N:123:LEU:CD2	2.30	0.44
3:N:1256:LEU:HD22	3:N:1259:VAL:CG2	2.47	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

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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:104:VAL:HG21	5:X:129:LEU:HD12	1.99	0.44
5:X:42:LEU:HD12	5:X:42:LEU:N	2.32	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:HH11	2:C:642:ARG:HG2	1.81	0.44
2:C:707:ARG:HH21	2:C:824:ARG:NH1	2.15	0.44
2:C:861:LEU:HD12	2:C:862:PRO:CD	2.47	0.44
2:C:857:ASP:O	2:C:978:ARG:HG2	2.17	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
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
1:F:136:GLY:O	1:F:138:LEU:N	2.47	0.44
2:H:1083:GLU:O	2:H:1087:VAL:HG12	2.17	0.44
2:H:217:LEU:N	2:H:217:LEU:HD22	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:44:ILE:O	2:H:47:ALA:HB3	2.18	0.44
2:H:5:ARG:HE	2:H:902:ILE:HG21	1.81	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
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
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:1379:VAL:HG12	3:N:1419:PRO:HA	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:414:ARG:NH1	3:N:414:ARG:HB2	2.23	0.44
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
4:O:40:LEU:HG	4:O:40:LEU:O	2.17	0.44
5:X:117:MET:HB3	5:X:117:MET:HE3	1.67	0.44
2:C:1046:ALA:HB1	3:D:1471:LEU:CD1	2.48	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
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
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
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:C	2:H:100:LEU:HD13	2.38	0.44
2:H:113:VAL:HG13	2:H:373:VAL:HG11	1.99	0.44
2:H: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: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
3:I:151:GLN:HG2	3:I:152:LEU:H	1.81	0.44
3:I:24:GLY:HA3	3:I:49:ILE:HG23	1.98	0.44
3:I:670:VAL:HG22	3:I:671:LYS:N	2.32	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: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
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

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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
2:C:274:ARG:HG3	2:C:285:LEU:HD22	2.00	0.44
2:C:124:ASP:CA	2:C:592:LEU:HD12	2.47	0.44
2:C:700:TYR:HB3	2:C:833:LEU:CD1	2.41	0.44
3:D:1412:LYS:C	3:D:1414:PRO:HD3	2.38	0.44
3:D:141:ILE:HD12	3:D:448:GLU:CG	2.41	0.44
3:D:1442:ASN:ND2	3:D:1444:THR:HB	2.32	0.44
3:D:24:GLY:HA3	3:D:49:ILE:HG12	1.99	0.44
3:D:356:PRO:O	3:D:385:VAL:HG21	2.18	0.44
3:D:93:ILE:CD1	3:D:548:ILE:HD12	2.47	0.44
3:D:6:ARG:O	3:D:7:LYS:HD3	2.17	0.44
1:B:65:PHE:CD1	3:D:813:LEU:HD13	2.52	0.44
3:D:8:VAL:O	3:D:1434:TRP:CH2	2.71	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: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:709:HIS:HA	3:I:1227:GLN:HB3	1.98	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
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
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:1292:VAL:HG23	3:N:1305:LEU:CD2	2.47	0.44
3:N:493:ARG:NH1	3:N:1390:LEU:HB3	2.33	0.44
3:N:1404:ASN:CG	3:N:1408:ILE:HD13	2.38	0.44
3:N:209:ARG:CG	3:N:209:ARG:NH1	2.75	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:977:ALA:C	3:N:982:PHE:HB3	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: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
3:D:407:VAL:HG21	3:D:437:VAL:HG11	2.00	0.44
3:D:636:GLN:N	3:D:636:GLN:OE1	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
1:F:137:ARG:HG3	1:F:137:ARG:NH1	2.32	0.44
1:F:20:TYR:HD2	1:F:21:GLY:N	2.14	0.44
1:G:186:LEU:O	1:G:188:GLN:N	2.51	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:19:THR:C	2:H:23:VAL:HG23	2.38	0.44
2:H:524:VAL:HG13	2:H:528:GLU:OE1	2.16	0.44
3:I:1099:VAL:O	3:I:1101:VAL:N	2.51	0.44
3:I:1377:LYS:HG2	3:I:1377:LYS:O	2.17	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:CD	3:I:799:LYS:C	2.84	0.44
3:I:947:ILE:CD1	3:I:947:ILE:H	2.16	0.44
3:I:989:TYR:CE2	3:I:993:LEU:HD11	2.53	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: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
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
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:1006:HIS:H	3:D:628:ARG:HH12	1.66	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:164:PRO:HB2	2:C:265:ARG:H	1.83	0.44
2:C:550:LEU:HG	3:D:1070:TYR:CE1	2.53	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:987:ILE:O	2:C:989:VAL:HG13	2.17	0.44
3:D:1026:SER:C	3:D:1028:ALA:N	2.69	0.44
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
3:D:162:ARG:HD3	3:D:162:ARG:C	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
1:F:40:LEU:O	1:F:43:ILE:HG12	2.17	0.44
2:H:1019:GLN:O	2:H:1021:LEU:N	2.46	0.44
2:H:292:ARG:HE	2:H:299:LYS:HE2	1.82	0.44
2:H:26:TYR:O	2:H:30:LEU:HG	2.18	0.44
2:H:366:SER:C	2:H:367:LEU:HG	2.38	0.44
2:H:2:GLU:HG2	2:H:3:ILE:N	2.33	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:98:LEU:CD2	2:H:98:LEU:N	2.65	0.44
3:I:1156:LEU:HD12	3:I:1177:ALA:CA	2.48	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:100:ALA:CB	3:I:575:GLN:HE22	2.23	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
4:J:47:LYS:HA	4:J:54:LEU:HB3	1.99	0.44
1:K:209:GLU:O	1:K:213:GLN:HG3	2.18	0.44
1:K:80:LEU:HD23	1:K:81:ASN:OD1	2.17	0.44
1:L:99:LEU:HD23	1:L:115:LEU:CD1	2.46	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:138:LEU:HD13	1:L:138:LEU:C	2.38	0.44
1:L:32:PHE:O	1:L:36:LEU:HD12	2.18	0.44
2:M:1042:ALA:HB2	3:N:1223:ILE:HB	1.98	0.44
2:M:1037:VAL:HG13	2:M:1049:LEU:HD13	1.99	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
3:N:345:TYR:CZ	3:N:377:VAL:HG22	2.53	0.44
3:N:659:LYS:CA	3:N:659:LYS:HE3	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: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:HG12	2:C:317:VAL:O	2.18	0.44
2:C:406:HIS:HA	2:C:409:ARG:HG2	1.99	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:683:ASN:HB2	2:C:872:ASN:HB2	1.99	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
3:D:447:VAL:O	3:D:449:SER:N	2.50	0.44
3:D:6:ARG:HH11	3:D:6:ARG:HA	1.82	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
1:F:184:THR:HG22	1:F:192:LEU:O	2.18	0.44
2:H:1008:ARG:NH1	2:H:1011:GLY:N	2.66	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: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:578:VAL:N	2:H:671:ASN:HD21	2.16	0.44
3:I:1031:ASN:O	3:I:1032:PRO:C	2.56	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
3:I:475:LYS:O	3:I:479:GLU:HG2	2.18	0.44
3:I:483:HIS:HB2	3:I:484:PRO:CD	2.37	0.44
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
4:J:47:LYS:N	4:J:54:LEU:HD22	2.33	0.44
1:K:195:LEU:HG	1:K:197:LEU:HD23	2.00	0.44
1:K:53:VAL:O	1:K:167:VAL:HB	2.18	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:1038:TRP:HD1	2:M:1041:GLU:OE1	2.01	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
3:N:1019:PRO:O	3:N:1020:LEU:C	2.56	0.44
3:N:153:LEU:C	3:N:153:LEU:CD1	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:661:MET:CE	3:N:673:ALA:HB1	2.38	0.44
3:N:650:LEU:HD13	3:N:691:LEU:HD22	1.99	0.44
3:N:832:ARG:HG3	3:N:833:GLU:OE1	2.18	0.44
3:N:845:ASN:C	3:N:845:ASN:ND2	2.70	0.44
3:N:989:TYR:O	3:N:993:LEU:HG	2.18	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:37:LEU:CD2	5:Z:42:LEU:HD11	2.48	0.44
5:Z:3:ARG:HB3	5:Z:4:GLU:H	1.61	0.44
1:A:94:LEU:HD11	1:A:119:ASP:OD1	2.17	0.44
1:B:89:PHE:CD1	1:B:120:VAL:HG12	2.53	0.44
1:B:83:LYS:CD	1:B:167:VAL:HG12	2.47	0.44
1:B:74:ASP:O	1:B:78:ILE:HG12	2.18	0.44
2:C:1041:GLU:OE1	3:D:1462:LEU:HB3	2.17	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
3:D:1068:LEU:O	3:D:1072:ILE:HG12	2.18	0.44
3:D:1105:ILE:CD1	3:D:1105:ILE:N	2.80	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1487:VAL:HG21	4:E:79:LEU:HG	2.00	0.44
3:D:612:GLY:O	3:D:616:GLN:HB2	2.17	0.44
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:87:ARG:O	3:D:524:LEU:HD11	2.18	0.44
3:D:970:LYS:O	3:D:973:GLN:HB2	2.17	0.44
1:F:85:LEU:CD1	1:F:124:ASN:HB3	2.48	0.44
2:H:1095:LEU:HD12	3:I:603:LEU:CD1	2.39	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:N	2:H:683:ASN:OD1	2.50	0.44
2:H:850:ALA:HA	3:I:632:VAL:HG11	2.00	0.44
2:H:871:LEU:N	2:H:871:LEU:HD22	2.33	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:889:HIS:CD2	2:H:970:GLY:HA3	2.53	0.44
2:H:976:ASP:OD2	2:H:979:THR:N	2.51	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
2:H:1050:GLN:NE2	3:I:1471:LEU:N	2.65	0.44
3:I:1487:VAL:HG12	3:I:1488:ASP:N	2.33	0.44
3:I:666:ILE:HG22	3:I:676:MET:CE	2.48	0.44
3:I:82:LYS:CG	3:I:83:SER:H	2.27	0.44
4:J:61:VAL:HG23	4:J:62:THR:N	2.33	0.44
1:L:110:LYS:NZ	1:L:112:ARG:NH1	2.66	0.44
1:L:58:ILE:HB	1:L:61:VAL:CG2	2.48	0.44
2:M:179:ASN:HA	2:M:179:ASN:HD22	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:171:TRP:HH2	2:M:417:GLY:HA2	1.82	0.44
2:M:557:ARG:CG	2:M:557:ARG:HH11	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:C	1:A:208:LEU:HD23	2.39	0.43
1:B:186:LEU:CB	1:B:192:LEU:HD11	2.48	0.43
2:C:184:MET:HB2	2:C:193:LEU:HG	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:136:ILE:HG22	2:C:336:VAL:HG22	2.00	0.43
2:C:460:ARG:HH11	2:C:460:ARG:CB	2.31	0.43
2:C:943:VAL:HG13	2:C:944:LEU:H	1.80	0.43
3:D:1109:GLU:C	3:D:1109:GLU:CD	2.76	0.43
3:D:122:GLU:O	3:D:124:GLU:N	2.50	0.43
3:D:1205:TYR:CE1	3:D:1366:LYS:HD3	2.53	0.43
3:D:165:LYS:NZ	3:D:199:LEU:HD12	2.33	0.43
3:D:31:THR:HG22	3:D:44:LEU:HD13	2.00	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
1:F:156:HIS:HD2	1:F:156:HIS:H	1.66	0.43
1:G:99:LEU:CD1	1:G:142:VAL:HG23	2.22	0.43
1:G:177:VAL:CG1	1:G:199:ILE:HG23	2.48	0.43
2:H:575:GLN:CD	2:H:670:GLN:HG2	2.39	0.43
2:H:69:LEU:HB2	2:H:97:ARG:O	2.18	0.43
2:H:877:PRO:HB3	3:I:1023:MET:CE	2.38	0.43
3:I:1364:HIS:ND1	3:I:1365:ASP:N	2.66	0.43
3:I:165:LYS:HG2	3:I:166:GLN:H	1.81	0.43
3:I:18:ILE:HG21	3:I:516:ALA:O	2.18	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
1:K:176:ARG:NH1	2:M:865:THR:HB	2.33	0.43
1:L:209:GLU:O	1:L:210:ALA:C	2.56	0.43
1:L:26:GLU:HG2	1:L:27:PRO:N	2.32	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:88:LEU:HD22	2:M:814:GLU:HG2	2.00	0.43
2:M:911:GLU:O	2:M:915:LYS:HG2	2.18	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
3:N:360:ARG:HB2	3:N:360:ARG:CZ	2.47	0.43
3:N:171:LEU:HB3	3:N:391:ALA:O	2.18	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
5:X:102:VAL:CG2	5:X:117:MET:HB2	2.48	0.43
5:Y:109:GLU:O	5:Y:110:ALA:C	2.56	0.43
5:Y:74:ILE:O	5:Y:74:ILE:HG23	2.18	0.43

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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: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
1:A:89:PHE:HB3	1:A:94:LEU:HD12	2.00	0.43
2:C:1103:ASP:O	3:D:7:LYS:HG2	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:939:ARG:NE	2:C:939:ARG:HA	2.34	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
3:D:560:GLN:O	2:H:226:VAL:HG11	2.18	0.43
2:C:911:GLU:HG3	3:D:951:ILE:CD1	2.47	0.43
4:E:47:LYS:HG2	4:E:55:PHE:CE2	2.53	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
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:64:LEU:CB	2:H:359:MET:HG3	2.25	0.43
2:H:808:ARG:O	2:H:810:ASP:N	2.51	0.43
3:I:1415:VAL:HG23	3:I:1415:VAL:O	2.18	0.43
3:I:161:LEU:HD21	3:I:397:LYS:HZ3	1.83	0.43
3:I:32:ILE:HD13	3:I:39:PRO:HA	1.99	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:664:LYS:N	3:I:664:LYS:HD3	2.34	0.43
3:I:629:SER:HB3	3:I:726:ILE:HD11	2.00	0.43
3:I:774:SER:O	3:I:776:GLU:N	2.50	0.43
4:J:30:LEU:HB3	4:J:35:PHE:CE1	2.53	0.43
1:K:208:LEU:HD23	1:K:212:ASN:HD22	1.82	0.43
1:K:51:THR:HG21	1:K:87:VAL:O	2.18	0.43
2:M:238:LEU:HA	2:M:241:LEU:HG	2.01	0.43
3:N:949:ILE:HD11	3:N:1023:MET:HE1	2.00	0.43
3:N:109:PRO:CD	3:N:1445:HIS:NE2	2.81	0.43
3:N:1132:LEU:N	3:N:1132:LEU:HD12	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
3:N:695:ILE:HG12	3:N:696:HIS:N	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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: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
1:B:62:LEU:CD1	1:B:62:LEU:N	2.81	0.43
2:C:1001:VAL:HG12	2:C:1001:VAL:O	2.17	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:72:ARG:HD2	2:C:72:ARG:C	2.39	0.43
2:C:888:THR:HG23	2:C:990:GLY:HA3	1.99	0.43
3:D:1171:VAL:HA	3:D:1174:LEU:HD12	2.00	0.43
3:D:711:LEU:C	3:D:713:ILE:H	2.20	0.43
3:D:699:VAL:HG22	3:D:756:GLN:OE1	2.19	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
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:HB3	2:H:109:LYS:HE2	1.71	0.43
2:H:253:ALA:O	2:H:257:VAL:HG23	2.17	0.43
2:H:242:LEU:CD1	2:H:254:VAL:HG21	2.49	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
3:I:952:ASP:HA	3:I:1062:ARG:NH1	2.33	0.43
3:I:708:LEU:HD13	3:I:1231:GLU:HA	2.00	0.43
3:I:1286:THR:O	3:I:1287:GLU:CB	2.65	0.43
3:I:1105:ILE:HD11	3:I:1374:GLN:NE2	2.33	0.43
3:I:1426:LYS:HD3	3:I:1429:LEU:HD23	1.99	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:45:PHE:HE1	3:I:525:ARG:HH12	1.66	0.43
3:I:548:ILE:CD1	3:I:548:ILE:H	2.31	0.43
3:I:592:THR:HG22	3:I:593:ASN:N	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:710:ARG:C	3:I:712:GLY:N	2.72	0.43
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
2:H:1044:GLY:HA3	4:J:17:TYR:HE1	1.82	0.43
1:K:162:ILE:HG12	1:K:163:ASN:N	2.33	0.43
2:M:1016:ILE:HD13	2:M:1016:ILE:N	2.28	0.43
2:M:502:PRO:HB2	2:M:509:ALA:HB3	1.99	0.43
2:M:87:ASP:HA	2:M:131:GLY:HA3	1.99	0.43
2:M:905:ILE:N	2:M:905:ILE:HD12	2.34	0.43
2:M:952:LEU:CD1	2:M:969:GLN:HE22	2.30	0.43
3:N:1481:VAL:C	3:N:1483:PHE:N	2.70	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
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:186:LEU:HG	1:A:187:GLY:H	1.83	0.43
1:A:65:PHE:CE2	2:C:830:LYS:HG3	2.52	0.43
2:C:1004:LYS:O	2:C:1005:MET:HB2	2.18	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
3:D:1310:ARG:HB3	3:D:1310:ARG:CZ	2.47	0.43
3:D:137:PRO:HB2	3:D:138:LYS:HZ3	1.81	0.43
3:D:1490:LYS:HZ1	4:E:39:VAL:HG12	1.80	0.43
3:D:549:ASN:HA	3:D:549:ASN:HD22	1.58	0.43
3:D:554:LEU:HD13	3:D:570:GLU:HG3	2.00	0.43
2:C:1084:SER:HB3	3:D:617:ASN:HD21	1.83	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:HD13	3:D:900:ILE:O	2.18	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:1002:GLU:HG3	2:H:1003:ASP:H	1.83	0.43
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
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
3:I:137:PRO:HG2	3:I:453:ASP:N	2.30	0.43
3:I:482:LYS:HE3	3:I:1389:LEU:HD23	2.00	0.43
3:I:139:GLY:H	3:I:147:VAL:HG21	1.82	0.43
3:I:87:ARG:HD3	3:I:523:ASP:HB2	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
1:L:17:GLY:O	1:L:18:ARG:HG2	2.19	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
2:M:87:ASP:HA	2:M:131:GLY:CA	2.48	0.43
3:N:1304:LYS:N	3:N:1304:LYS:HD3	2.32	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
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:95:LEU:CD1	5:Y:95:LEU:H	2.27	0.43
5:Y:92:GLU:HA	5:Y:98:GLU:O	2.19	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:O	1:B:35:THR:HG22	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: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
3:D:137:PRO:HG3	3:D:452:ILE:HB	1.99	0.43
3:D:18:ILE:HG21	3:D:516:ALA:O	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:455:ARG:HH11	3:D:455:ARG:HG3	1.83	0.43
3:D:459:GLU:HA	3:D:462:GLN:HB3	2.00	0.43
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
1:F:52:ALA:CB	1:F:170:VAL:H	2.32	0.43
1:F:8:ALA:HB1	1:G:224:TYR:CE1	2.54	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:1380:GLU:HG2	3:I:1381:VAL:N	2.33	0.43
3:I:6:ARG:O	3:I:1459:LEU:HD13	2.17	0.43
3:I:1491:THR:O	3:I:1494:ALA:HB3	2.18	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
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:1105:ILE:HD12	3:N:1105:ILE:N	2.33	0.43
3:N:1256:LEU:HD22	3:N:1259:VAL:CB	2.47	0.43
3:N:1311:LEU:H	3:N:1311:LEU:HD23	1.84	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
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:1016:ILE:HG13	2:C:1017:THR:N	2.26	0.43
2:C:173:ASP:HB2	2:C:185:LYS:HB3	1.99	0.43
2:C:910:LYS:HA	2:C:910:LYS:HD3	1.61	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:G:61:VAL:HG12	1:G:62:LEU:N	2.33	0.43
1:F:224:TYR:CZ	1:G:9:PRO:HD2	2.52	0.43
2:H:1032:PHE:O	2:H:1036:GLU:HB2	2.18	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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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
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:ND2	3:I:845:ASN:N	2.67	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:1066:ALA:HA	2:M:1077:PRO:CG	2.48	0.43
2:M:756:VAL:CG1	2:M:790:LEU:HD22	2.49	0.43
3:N:1253:THR:HA	3:N:1258:ARG:HD3	2.01	0.43
3:N:148:GLU:O	3:N:150:ARG:N	2.51	0.43
3:N:44:LEU:HD21	3:N:525:ARG:NH2	2.33	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
5:Z:56:TRP:CE3	5:Z:56:TRP:HA	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:CD	2:C:740:GLU:N	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: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
3:D:16:GLU:O	3:D:19:ARG:HG2	2.19	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:HB3	3:D:679:ARG:CZ	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:97:THR:HG21	3:D:571:LYS:CD	2.41	0.43
2:H:1090:LYS:HA	2:H:1093:GLN:HB2	2.01	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:581:THR:OG1	2:H:583:LEU:CD2	2.66	0.43
2:H:603:VAL:HG23	2:H:647:GLN:O	2.18	0.43
3:I:1168:MET:O	3:I:1168:MET:HE2	2.18	0.43
3:I:138:LYS:O	3:I:138:LYS:HE2	2.18	0.43
3:I:1427:SER:OG	3:I:1428:ALA:N	2.52	0.43
3:I:160:GLU:HG3	3:I:165:LYS:HG3	2.00	0.43
3:I:17:LYS:O	3:I:20:SER:HB3	2.19	0.43
2:H:850:ALA:HA	3:I:632:VAL:CG1	2.49	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:207:LEU:HD23	2:M:208:ALA:N	2.33	0.43
2:M:136:ILE:O	2:M:336:VAL:HG22	2.18	0.43
2:M:572:ILE:HD13	2:M:572:ILE:H	1.84	0.43
2:M:679:PHE:C	2:M:681:GLY:N	2.72	0.43
3:N:953:ASP:OD1	3:N:1019:PRO:HG2	2.18	0.43
3:N:102:ILE:HD11	3:N:106:LYS:HG2	2.00	0.43
3:N:18:ILE:HG21	3:N:516:ALA:CB	2.48	0.43
3:N:18:ILE:HG23	3:N:518:PRO:CG	2.40	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:768:ASN:O	3:N:769:LEU:HD23	2.18	0.43
3:N:84:ILE:HG12	3:N:85:VAL:N	2.33	0.43
3:N:760:ARG:NH1	4:O:59:ASN:HD21	2.16	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:C	1:A:140:MET:SD	2.97	0.43
1:B:147:GLY:HA3	1:B:171:PHE:CZ	2.53	0.43
1:B:51:THR:HB	1:B:87:VAL:HG22	2.01	0.43
2:C:129:ILE:HG22	2:C:130:ASN:N	2.34	0.43
2:C:237:ARG:HG3	2:C:237:ARG:HH11	1.83	0.43
2:C:136:ILE:CG2	2:C:336:VAL:HG22	2.49	0.43
2:C:640:ARG:HG2	2:C:640:ARG:HH11	1.83	0.43
2:C:886:LEU:HA	2:C:886:LEU:HD12	1.80	0.43
3:D:1104:GLU:HG2	3:D:1461:GLY:HA3	2.01	0.43
3:D:1118:ILE:N	3:D:1118:ILE:HD12	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
3:D:45:PHE:CD1	3:D:522:PRO:HB3	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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
3:D:970:LYS:HG3	3:D:995:LEU:HD22	2.00	0.43
4:E:31:LEU:HB3	4:E:35:PHE:HE1	1.84	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
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
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
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:200:LEU:HD13	2:H:300:ASP:OD1	2.18	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: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:676:ILE:HD11	2:H:873:PRO:CA	2.49	0.43
3:I:1149:LEU:CD2	3:I:1164:ARG:O	2.67	0.43
3:I:128:TYR:HD2	3:I:128:TYR:HA	1.74	0.43
3:I:1472:ILE:O	3:I:1472:ILE:HD13	2.18	0.43
3:I:711:LEU:HD22	3:I:714:GLN:NE2	2.34	0.43
2:M:1018:GLN:NE2	2:M:1060:ILE:HD13	2.32	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
1:K:46:SER:HB3	2:M:856:GLU:HG2	2.00	0.43
2:M:944:LEU:HA	2:M:944:LEU:HD23	1.90	0.43
3:N:1123:PHE:HD1	3:N:1133:ARG:C	2.22	0.43
3:N:115:LEU:C	3:N:115:LEU:HD23	2.39	0.43
3:N:1305:LEU:O	3:N:1305:LEU:HG	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:508:ARG:HB3	3:N:510:GLU:CD	2.39	0.43
3:N:525:ARG:HG2	3:N:525:ARG:O	2.19	0.43
3:N:562:ALA:N	3:N:563:PRO:CD	2.81	0.43
3:N:843:PHE:CB	3:N:866:VAL:HG22	2.31	0.43
2:M:1075:ASP:OD1	4:O:28:GLN:CD	2.57	0.43
5:Y:133:ARG:HA	5:Y:154:ILE:CD1	2.49	0.43
5:Z:133:ARG:HB3	5:Z:133:ARG:HE	1.29	0.43
1:A:54:THR:HG21	1:A:158:ILE:HG12	1.99	0.43
1:A:35:THR:HG23	1:B:42:ARG:HB2	1.99	0.43
1:B:184:THR:O	1:B:190:THR:O	2.37	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
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:52:PHE:HB3	2:C:53:PRO:HD3	2.00	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:684:PHE:CD2	2:C:685:GLU:HG2	2.54	0.43
2:C:683:ASN:CA	2:C:687:ALA:HB3	2.48	0.43
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
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
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:165:LEU:HB3	2:H:265:ARG:CZ	2.48	0.43
2:H:45:GLN:O	2:H:48:PHE:HB2	2.18	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:1289:LYS:NZ	3:I:1306:PRO:HG3	2.34	0.43
3:I:12:LEU:CD1	3:I:12:LEU:H	2.20	0.43
3:I:1442:ASN:O	3:I:1446:VAL:HG23	2.19	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: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
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:1102:LEU:HD23	2:M:1106:ASP:HA	2.01	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
3:N:1488:ASP:O	3:N:1489:GLN:C	2.57	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:704:ARG:NH1	3:N:705:ALA:CB	2.81	0.43
3:N:695:ILE:HD11	3:N:717:GLN:CD	2.39	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
5:X:87:SER:HA	5:X:156:GLY:O	2.19	0.43
5:Y:112:VAL:O	5:Y:112:VAL:HG12	2.19	0.43
5:Y:44:GLU:O	5:Y:45:ASN:CB	2.67	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:1001:VAL:O	2:C:1004:LYS:O	2.36	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
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
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
1:F:122:ILE:O	1:F:122:ILE:HD12	2.19	0.43
1:F:109:VAL:HG12	1:F:129:ILE:HB	2.01	0.43
1:F:151:VAL:HB	1:F:169:ALA:HB2	1.99	0.43
1:F:43:ILE:HG22	1:G:32:PHE:CE2	2.46	0.43
1:G:41:ARG:HG3	1:G:41:ARG:NH1	2.34	0.43
2:H:139:GLN:OE1	2:H:334:ARG:HD3	2.19	0.43
2:H:294:GLU:HG3	2:H:294:GLU:H	1.66	0.43
2:H:30:LEU:HA	2:H:44:ILE:HD13	2.01	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:1197:ARG:HD3	3:I:1198:TYR:N	2.25	0.43
3:I:919:PHE:HZ	3:I:1211:MET:CG	2.31	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
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:1019:GLN:HG3	3:N:621:LYS:HD2	2.00	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:54:ILE:HG23	2:M:64:LEU:HG	2.01	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
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
3:N:796:ARG:CG	3:N:861:GLN:HB2	2.48	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
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
2:C:52:PHE:CG	2:C:68:PHE:HB2	2.53	0.42
2:C:611:ILE:HG13	2:C:625:LEU:HD21	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:676:ILE:CG1	2:C:873:PRO:HG3	2.44	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
3:D:563:PRO:HA	2:H:223:ASP:CG	2.39	0.42
1:B:188:GLN:NE2	3:D:688:TRP:HE1	2.17	0.42
3:D:800:LYS:HD3	3:D:803:GLY:CA	2.49	0.42
1:G:15:THR:O	1:G:15:THR:HG23	2.19	0.42
1:G:182:GLU:N	1:G:182:GLU:OE1	2.52	0.42
1:G:43:ILE:C	1:G:45:LEU:H	2.23	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:54:ILE:CG2	2:H:66:LEU:HB3	2.49	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: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
3:I:198:ARG:NE	3:I:198:ARG:HA	2.34	0.42
3:I:700:VAL:HG22	3:I:718:PRO:HG3	2.00	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:1021:LEU:CD2	3:N:622:ARG:HH12	2.31	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
3:N:102:ILE:HG13	3:N:106:LYS:HB2	1.99	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
3:N:165:LYS:C	3:N:165:LYS:HD2	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
5:Y:150:ARG:HB3	5:Y:150:ARG:HH11	1.83	0.42
5:Y:5:VAL:HB	5:Y:72:ALA:CA	2.48	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:HA	2:C:250:ARG:NE	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: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
2:C:331:ARG:NH1	2:C:427:VAL:HG13	2.34	0.42
2:C:328:LEU:HD21	2:C:434:HIS:HA	2.01	0.42
3:D:957:PRO:HG2	3:D:1007:VAL:HG22	2.00	0.42
3:D:1040:GLY:O	3:D:1041:LEU:HB3	2.19	0.42
3:D:1304:LYS:HZ2	3:D:1304:LYS:HB3	1.84	0.42
3:D:1351:GLU:OE1	3:D:1351:GLU:HA	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
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:18:ILE:CG2	3:D:518:PRO:HG3	2.46	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: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:979:GLU:O	5:X:143:PRO:HD2	2.17	0.42
3:D:978:TYR:HB2	3:D:983:LEU:HD12	2.00	0.42
1:F:176:ARG:O	1:F:200:TRP:CE3	2.72	0.42
1:F:41:ARG:HA	1:F:44:LEU:HD12	2.00	0.42
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
1:G:58:ILE:HB	1:G:61:VAL:CB	2.49	0.42
1:G:73:GLU:H	1:G:73:GLU:CD	2.22	0.42
2:H:1089:VAL:HG21	2:H:1111:ILE:CD1	2.49	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:N	2:H:668:LEU:HD12	2.23	0.42
2:H:80:GLN:O	2:H:81:ASP:C	2.58	0.42
2:H:983:ILE:HD12	3:I:944:THR:CA	2.17	0.42
3:I:1451:ALA:O	3:I:1452:ILE:C	2.57	0.42
3:I:6:ARG:NH2	3:I:1459:LEU:O	2.52	0.42
2:H:1046:ALA:CB	3:I:1471:LEU:HD11	2.47	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
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:1015:LEU:CD1	2:M:1015:LEU:H	2.30	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
3:N:1412:LYS:C	3:N:1414:PRO:HD3	2.38	0.42
3:N:142:LEU:HD13	3:N:142:LEU:N	2.34	0.42
3:N:1460:ILE:O	3:N:1460:ILE:HD12	2.19	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
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: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
1:B:15:THR:O	1:B:15:THR:HG23	2.18	0.42
2:C:1019:GLN:O	2:C:1021:LEU:N	2.47	0.42
2:C:1013:TYR:HE2	2:C:1063:ARG:NH2	2.17	0.42
2:C:1069:ALA:HA	2:C:1072:LYS:HZ3	1.85	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
3:D:1136:LYS:HB2	3:D:1139:ASP:OD2	2.19	0.42
3:D:153:LEU:HD12	3:D:153:LEU:C	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
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:1005:MET:O	2:H:1005:MET:HG3	2.18	0.42
2:H:1097:LEU:HD11	3:I:10:ILE:CD1	2.49	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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
3:I:206:ARG:HG3	3:I:207:PHE:CD1	2.55	0.42
3:I:90:MET:HG2	3:I:521:PRO:HD3	2.00	0.42
3:I:754:PHE:HZ	4:J:21:VAL:HG13	1.84	0.42
2:H:1061:GLU:CD	3:I:84:ILE:HG21	2.40	0.42
3:I:90:MET:HE2	3:I:519:VAL:O	2.19	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:1040:LEU:HA	2:M:1040:LEU:HD12	1.86	0.42
2:M:1089:VAL:O	2:M:1093:GLN:HG3	2.19	0.42
2:M:181:VAL:HG12	2:M:182:VAL:O	2.19	0.42
2:M:193:LEU:HD12	2:M:193:LEU:N	2.34	0.42
2:M:283:ILE:HG13	2:M:284:ARG:N	2.33	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
3:N:433:GLY:HA3	3:N:449:SER:H	1.84	0.42
2:M:1056:LYS:HG2	3:N:624:ASP:HB2	2.01	0.42
3:N:695:ILE:O	3:N:697:GLY:N	2.52	0.42
3:N:90:MET:SD	3:N:520:LEU:HA	2.59	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:1048:THR:O	2:C:1052:MET:HG2	2.20	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:544:THR:O	2:C:546:LEU:N	2.52	0.42
2:C:537:LYS:HZ2	2:C:904:PRO:HB3	1.84	0.42
3:D:1159:ARG:HG2	3:D:1159:ARG:HH11	1.84	0.42
3:D:1168:MET:HE2	3:D:1168:MET:O	2.19	0.42
3: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: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:779:ALA:HB1	3:D:931:LEU:HD22	2.02	0.42
3:D:696:HIS:NE2	4:E:54:LEU:HD11	2.35	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:N	2:H:328:LEU:CD1	2.83	0.42
2:H:425:PHE:HA	2:H:428:ARG:HD2	2.00	0.42
2:H:572:ILE:CD1	2:H:573:ARG:N	2.78	0.42
2:H:572:ILE:H	2:H:572:ILE:HG13	1.55	0.42
2:H:607:ASP:C	2:H:609:ASN:N	2.72	0.42
2:H:575:GLN:N	2:H:667:ALA:HB1	2.34	0.42
2:H:690:ILE:C	2:H:690:ILE:HD13	2.39	0.42
2:H:676:ILE:HD12	2:H:871:LEU:O	2.19	0.42
2:H:672:VAL:HG22	2:H:994:ILE:HD13	2.01	0.42
3:I:105:VAL:HG21	3:I:128:TYR:HE1	1.83	0.42
3:I:1205:TYR:CE2	3:I:1366:LYS:HD3	2.55	0.42
3:I:496:LEU:CD2	3:I:1388:ARG:HD3	2.41	0.42
3:I:1412:LYS:C	3:I:1414:PRO:HD3	2.40	0.42
3:I:1447:LEU:N	3:I:1447:LEU:HD12	2.34	0.42
3:I:1481:VAL:O	3:I:1484:THR:OG1	2.37	0.42
3:I:150:ARG:HH22	3:I:468:LEU:CD1	2.25	0.42
3:I:348:GLN:HB3	3:I:349:PRO:CD	2.49	0.42
3:I:645:PRO:HB2	3:I:648:MET:HG3	2.00	0.42
3:I:745:MET:HB3	3:I:745:MET:HE2	1.88	0.42
2:H:1051:GLU:OE2	3:I:751:LEU:N	2.52	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
1:K:152:PRO:HB2	1:K:155:LYS:HB2	2.00	0.42
1:K:165:ILE:HG12	1:K:165:ILE:O	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: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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:659:LYS:HA	3:N:659:LYS:HE3	2.00	0.42
3:N:644:LEU:HD23	3:N:718:PRO:HB3	2.01	0.42
3:N:778:LEU:C	3:N:780:LYS:H	2.23	0.42
1:B:123:MET:O	1:B:125:PRO:HD3	2.18	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:91:GLN:HA	2:C:119:PRO:HA	2.00	0.42
2:C:151:ASP:OD2	2:C:152:PRO:HD2	2.18	0.42
2:C: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:O	2:C:479:VAL:HG23	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:95:TYR:HA	2:C:114:PHE:CB	2.49	0.42
2:C:1097:LEU:HD21	3:D:103:TRP:HZ3	1.84	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:1495:ILE:HG13	4:E:80:VAL:CG1	2.50	0.42
3:D:417:PRO:HG3	3:D:431:VAL:N	2.34	0.42
3:D:99:ALA:O	3:D:458:ALA:HB1	2.19	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:86:ARG:HH11	3:D:86:ARG:HG3	1.82	0.42
3:D:1475:GLY:HA2	4:E:17:TYR:CE1	2.54	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: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
2:H:47:ALA:HB1	2:H:348:LEU:CD2	2.49	0.42
3:I:1277:ILE:HD12	3:I:1277:ILE:N	2.35	0.42
3:I:45:PHE:HE1	3:I:525:ARG:NH1	2.16	0.42
3:I:575:GLN:HA	3:I:575:GLN:OE1	2.19	0.42
3: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
1:L:100:LEU:HB2	1:L:115:LEU:HD21	2.01	0.42
1:K:230:ALA:HA	1:L:13:VAL:O	2.19	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:616:GLU:C	2:M:618:GLY:H	2.22	0.42
2:M:611:ILE:HG13	2:M:625:LEU:HD21	2.00	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:1299:PHE:H	3:N:1299:PHE:HD2	1.66	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
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:CG2	1:A:142:VAL:O	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
3:D:1197:ARG:HA	3:D:1396:GLU:CG	2.45	0.42
3:D:15:PRO:CA	3:D:18:ILE:HG12	2.50	0.42
2:C:1095:LEU:HD22	3:D:603:LEU:HD13	2.01	0.42
3:D:690:ALA:O	3:D:693:GLU:HB3	2.20	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:122:ILE:C	1:G:124:ASN:H	2.23	0.42
1:G:90:LEU:HB3	1:G:119:ASP:CB	2.41	0.42
2:H:1008:ARG:HA	3:I:651:GLU:OE2	2.18	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:30:LEU:HD23	2:H:340:MET:CE	2.45	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
3:I:1106:VAL:CG1	3:I:1107:VAL:N	2.82	0.42
3:I:1274:ILE:HG13	3:I:1274:ILE:H	1.75	0.42
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
1:K:64:GLU:CA	1:K:75:VAL:HG11	2.43	0.42
1:L:101:LEU:CD2	1:L:140:MET:HG2	2.50	0.42
1:L:83:LYS:O	1:L:170:VAL:HG21	2.19	0.42
1:L:194:LYS:O	1:L:194:LYS:HG2	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:1094:LEU:O	3:N:1095:THR:C	2.57	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:480:GLU:HG3	3:N:480:GLU:O	2.19	0.42
3:N:466:LYS:HG2	3:N:510:GLU:CG	2.50	0.42
3:N:99:ALA:HB3	3:N:514:LEU:CG	2.48	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
5:X:90:GLU:HG2	5:X:101:SER:HA	2.01	0.42
5:X:75:LEU:HD22	5:X:85:LEU:HB2	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
3:D:796:ARG:HD3	3:D:1017:PHE:CE1	2.55	0.42
2:C:430:VAL:CG1	3:D:1075:HIS:HA	2.50	0.42
3:D:1121:PRO:HB2	3:D:1135:ARG:NH1	2.33	0.42
3:D:1293:PHE:CE2	3:D:1302:GLU:HB2	2.54	0.42
3:D:1197:ARG:CB	3:D:1396:GLU:HG3	2.50	0.42
3:D:473:LEU:CD1	3:D:473:LEU:H	2.29	0.42
3:D:465:LEU:CD1	3:D:512:MET:HB2	2.50	0.42
3:D:544:TYR:O	3:D:548:ILE:HG12	2.20	0.42
3:D:101:HIS:CE1	3:D:582:LEU:HD21	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
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
2:H:1067:TYR:CD1	2:H:1071:ILE:HD11	2.55	0.42
2:H:351:LEU:HD12	2:H:351:LEU:O	2.20	0.42
2:H:5:ARG:HB2	2:H:902:ILE:HB	2.01	0.42
2:H:755:LEU:HD12	2:H:825:VAL:HG21	2.01	0.42
3:I:137:PRO:CD	3:I:453:ASP:O	2.68	0.42
3:I:1389:LEU:HD12	3:I:1389:LEU:O	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:1395:LEU:HD23	3:I:1395:LEU:O	2.20	0.42
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
1:G:185:ARG:HB2	3:I:720:LEU:HD21	2.02	0.42
3:I:919:PHE:HZ	3:I:1211:MET:HG3	1.84	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:1161:GLU:OE1	3:N:1164:ARG:HB2	2.19	0.42
3:N:841:TYR:HB2	3:N:864:VAL:CG1	2.47	0.42
3:N:8:VAL:O	3:N:1434:TRP:HH2	2.03	0.42
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:1032:PHE:HZ	2:C:1040:LEU:HD22	1.84	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
3:D:1166:LEU:CD2	3:D:1166:LEU:H	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
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
1:G:51:THR:O	1:G:171:PHE:HA	2.19	0.42
2:H:149:THR:O	2:H:159:ILE:HG13	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:237:ARG:HG3	2:H:237:ARG:HH11	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:354:GLY:HA3	2:H:358:ARG:CZ	2.49	0.42
2:H:326:ASP:OD1	2:H:427:VAL:HG22	2.19	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
3:I:1461:GLY:N	3:I:1473:PRO:HG2	2.30	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
2:H:1056:LYS:HE2	3:I:751:LEU:HD23	2.02	0.42
3:I:926:LYS:HA	3:I:929:ARG:HD2	2.01	0.42
3:I:925:GLU:CG	3:I:926:LYS:N	2.83	0.42
4:J:39:VAL:HG21	4:J:73:LEU:HD21	2.02	0.42
1:K:165:ILE:HA	1:K:166:PRO:HD3	1.90	0.42
1:K:61:VAL:HG12	1:K:62:LEU:N	2.35	0.42
1:L:223:THR:C	1:L:225:PHE:H	2.23	0.42
1:L:63:HIS:CD2	3:N:813:LEU:HD11	2.55	0.42
2:M:1059:ASP:CG	2:M:1083:GLU:HG2	2.40	0.42
2:M:107:LEU:HD11	2:M:109:LYS:CB	2.49	0.42
2:M:1087:VAL:O	2:M:1091:GLU:HG3	2.20	0.42
2:M:218:VAL:HG23	2:M:221:LEU:HD11	2.02	0.42
2:M:20:GLU:HA	2:M:23:VAL:HB	2.01	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
3:N:1087:ARG:HD2	3:N:1235:GLN:HA	2.01	0.42
3:N:109:PRO:HD3	3:N:1445:HIS:NE2	2.34	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
3:N:537:THR:OG1	3:N:538:SER:N	2.53	0.42
3:N:540:LEU:N	3:N:540:LEU:HD12	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
5:X:103:GLN:NE2	5:X:105:VAL:HG13	2.34	0.42
5:X:59:GLU:O	5:X:62:ILE:HG22	2.20	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:1046:ALA:HB1	3:D:1471:LEU:CG	2.48	0.42
2:C:1112:PHE:N	2:C:1112:PHE:CD1	2.88	0.42
2:C:254:VAL:O	2:C:257:VAL:HB	2.20	0.42
2:C:445:GLU:OE1	2:C:445:GLU:HA	2.19	0.42
2:C:537:LYS:C	2:C:539:VAL:N	2.73	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:882:LEU:O	2:C:883:GLY:C	2.58	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
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
2:C:1100:GLN:O	3:D:9:ARG:HB3	2.19	0.42
1:F:77:GLU:O	1:F:81:ASN:OD1	2.38	0.42
1:G:182:GLU:H	1:G:182:GLU:CD	2.23	0.42
2:H:65:VAL:C	2:H:100:LEU:HD22	2.40	0.42
2:H:1017:THR:HG22	2:H:1018:GLN:N	2.34	0.42
2:H:300:ASP:C	2:H:302:VAL:N	2.72	0.42
2:H:37:GLU:C	2:H:39:ARG:H	2.22	0.42
2:H:384:GLU:HG3	2:H:388:ARG:HD2	2.01	0.42
2:H:135:VAL:HB	2:H:406:HIS:CE1	2.55	0.42
2:H:689:VAL:HG12	2:H:690:ILE:N	2.35	0.42
2:H:755:LEU:CD2	2:H:755:LEU:N	2.75	0.42
2:H:565:GLN:OE1	2:H:995:MET:HE2	2.19	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
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
4:J:82:GLU:HB2	4:J:83:ASP:H	1.64	0.42
1:K:175:ARG:CB	1:K:200:TRP:HB2	2.50	0.42
1:K:86:VAL:N	1:K:124:ASN:HD22	2.18	0.42
1:L:156:HIS:CE1	1:L:158:ILE:H	2.38	0.42
2:M:1038:TRP:HA	2:M:1041:GLU:OE1	2.20	0.42
2:M:1013:TYR:OH	2:M:1063:ARG:HG3	2.20	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: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
3:N:1154:GLU:HG3	3:N:1158:VAL:C	2.40	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1387:SER:HB3	3:N:1391:GLU:OE2	2.19	0.42
3:N:651:GLU:C	3:N:653:PHE:N	2.72	0.42
3:N:907:GLU:H	3:N:910:SER:HG	1.66	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: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
1:B:53:VAL:HA	1:B:144:VAL:CG2	2.37	0.42
2:C:1102:LEU:HB2	3:D:7:LYS:HB2	2.00	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
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
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
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:483:VAL:HG12	2:H:484:VAL:N	2.35	0.42
2:H:473:ARG:NE	2:H:531:PHE:HE1	2.18	0.42
3:I:1398:TRP:HZ3	3:I:1415:VAL:HB	1.84	0.42
3:I:208:PRO:CB	3:I:387:LEU:HD22	2.49	0.42
3:I:702:LEU:HA	3:I:702:LEU:HD13	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
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
2:M:270:GLY:O	2:M:274:ARG:HB3	2.20	0.42
2:M:428:ARG:NH1	2:M:428:ARG:HG2	2.35	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:469:THR:O	2:M:485:TYR:HA	2.20	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
2:M:841:ASN:HB2	2:M:992:MET:HE2	2.01	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
3:N:493:ARG:NH1	3:N:1390:LEU:O	2.53	0.42
1:L:176:ARG:HD2	3:N:884:ARG:HH21	1.85	0.42
3:N:916:TYR:OH	3:N:1168:MET:HB2	2.20	0.42
3:N:92:HIS:HA	3:N:518:PRO:HA	2.02	0.42
5:X:137:VAL:HG22	5:X:150:ARG:CB	2.46	0.42
5:X:5:VAL:O	5:X:72:ALA:HA	2.20	0.42
1:A:171:PHE:O	1:A:172:SER:C	2.57	0.41
1:A:86:VAL:CG1	1:A:86:VAL:O	2.67	0.41
1:B:13:VAL:HG13	1:B:23:PHE:CE1	2.55	0.41
2:C:251:ASP:C	2:C:253:ALA:N	2.73	0.41
2:C:44:ILE:CD1	2:C:44:ILE:H	2.33	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: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:O	3:D:1389:LEU:HG	2.19	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
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
1:F:58:ILE:HD12	1:F:140:MET:CB	2.49	0.41
2:H:1085:PHE:O	2:H:1089:VAL:HG23	2.19	0.41
2:H:135:VAL:HG11	2:H:406:HIS:ND1	2.35	0.41
2:H:168:ARG:HG2	2:H:168:ARG:O	2.20	0.41
2:H:274:ARG:HE	2:H:285:LEU:HB3	1.85	0.41
2:H:41:ASN:O	2:H:42:VAL:C	2.58	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
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:1155:VAL:C	3:I:1157:GLY:H	2.24	0.41
3:I:127:LEU:HD22	3:I:134:VAL:CG2	2.50	0.41
3:I:153:LEU:C	3:I:153:LEU:CD1	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
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:151:VAL:N	1:L:169:ALA:HB3	2.19	0.41
1:L:41:ARG:NH1	1:L:177:VAL:O	2.53	0.41
1:L:43:ILE:O	1:L:45:LEU:N	2.53	0.41
2:M:100:LEU:HD13	2:M:100:LEU:C	2.40	0.41
2:M:1081:VAL:HG13	2:M:1085:PHE:CD1	2.55	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:HB3	2:M:619:ARG:NH1	2.35	0.41
2:M:689:VAL:HG12	2:M:690:ILE:N	2.35	0.41
3:N:1152:GLU:HB2	3:N:1162:GLU:N	2.36	0.41
3:N:1108:ARG:NE	3:N:1198:TYR:O	2.53	0.41
3:N:1363:LEU:CD2	3:N:1363:LEU:N	2.82	0.41
3:N:1388:ARG:N	3:N:1391:GLU:OE2	2.53	0.41
3:N:1375:MET:O	3:N:1421:LEU:HA	2.20	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
3:N:395:VAL:HG12	3:N:396:VAL:N	2.35	0.41
3:N:90:MET:SD	3:N:521:PRO:HD3	2.60	0.41
3:N:545:ARG:HB3	3:N:545:ARG:NH1	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
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: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
2:C:92:ALA:C	2:C:117:HIS:HB3	2.41	0.41
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1481:VAL:HG12	3:D:1481:VAL:O	2.20	0.41
3:D: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
4:E:48:MET:CB	4:E:54:LEU:HB2	2.45	0.41
1:F:101:LEU:O	1:F:140:MET:SD	2.79	0.41
1:F:87:VAL:HG12	1:F:122:ILE:HG22	2.02	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
1:G:74:ASP:OD2	1:L:162:ILE:HG22	2.21	0.41
2:H:1056:LYS:HB3	3:I:624:ASP:H	1.86	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
3:I:1020:LEU:HD11	3:I:1035:ILE:CD1	2.49	0.41
3:I:951:ILE:CD1	3:I:1062:ARG:HE	2.33	0.41
3:I:1379:VAL:HG11	3:I:1395:LEU:HG	2.01	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:921:ARG:NH1	3:I:921:ARG:HG3	2.32	0.41
3:I:779:ALA:HB1	3:I:931:LEU:HD22	2.02	0.41
4:J:19:LEU:O	4:J:22:VAL:HB	2.20	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:K:68:ILE:CD1	1:K:68:ILE:N	2.83	0.41
1:L:68:ILE:HA	1:L:68:ILE:HD13	1.89	0.41
2:M:619:ARG:HH11	2:M:619:ARG:HB3	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:209:ARG:HG2	3:N:389:GLU:O	2.20	0.41
3:N:584:ASN:ND2	3:N:590:PRO:HD2	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
3:N:95:LEU:HA	3:N:551:ASN:OD1	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:104:GLU:OE1	1:A:136:GLY:O	2.38	0.41
1:A:45:LEU:HD21	1:A:174:VAL:O	2.20	0.41
1:B:100:LEU:HB2	1:B:115:LEU:CD2	2.51	0.41
1:B:99:LEU:HD12	1:B:117:VAL:CG2	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:443:THR:HA	2:C:444:PRO:HD3	1.89	0.41
2:C:460:ARG:NH1	2:C:460:ARG:CB	2.83	0.41
2:C:442:GLU:OE2	2:C:543:ASN:HB3	2.20	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
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
1:G:62:LEU:HD12	1:G:63:HIS:H	1.85	0.41
2:H:1052:MET:HE1	2:H:1056:LYS:CD	2.50	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
3:I:1068:LEU:O	3:I:1071:PHE:N	2.54	0.41
3:I:111:LYS:HZ1	3:I:1452:ILE:CD1	2.33	0.41
3:I:1197:ARG:H	3:I:1197:ARG:HG3	1.57	0.41
3:I:1363:LEU:N	3:I:1363:LEU:HD23	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
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:CD1	3:I:804:LEU:O	2.66	0.41
3:I:951:ILE:HD13	3:I:951:ILE:C	2.41	0.41
1:K:85:LEU:HD12	1:K:124:ASN:HB2	2.02	0.41
1:K:206:THR:HG23	1:K:208:LEU:H	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:63:HIS:HB3	2:M:799:ILE:CG2	2.46	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:HA	2:M:737:LEU:HD22	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: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:109:PRO:HD3	3:N:1445:HIS:CE1	2.55	0.41
3:N:1107:VAL:HG12	3:N:1218:GLY:H	1.85	0.41
3:N:1260:ILE:HG13	3:N:1260:ILE:H	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
3:N:785:ILE:CG2	3:N:786:ILE:N	2.83	0.41
1:L:65:PHE:CE1	3:N:813:LEU:HD13	2.56	0.41
5:X:112:VAL:O	5:X:112:VAL:HG12	2.19	0.41
5:X:24:GLU:O	5:X:28:GLU:HG3	2.20	0.41
5:Y:152:VAL:O	5:Y:153:ALA:HB2	2.21	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:A:9:PRO:HD2	1:B:224:TYR:CZ	2.55	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:N	2:C:745:ILE:HD12	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:1068:GLU:HG2	2:H:1072:LYS:HD2	2.00	0.41
2:H:1111:ILE:HG13	2:H:1112:PHE:N	2.35	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:711:GLU:OE1	2:H:822:VAL:HG12	2.21	0.41
2:H:97:ARG:HG2	2:H:110:GLU:OE2	2.20	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
3:I:481:MET:HG2	3:I:1388:ARG:HH21	1.79	0.41
2:H:1087:VAL:HG23	3:I:524:LEU:HD21	2.02	0.41
1:K:158:ILE:O	1:K:159:LYS:HD3	2.20	0.41
1:K:64:GLU:HG3	1:K:75:VAL:HG12	2.03	0.41
2:M:1019:GLN:CG	3:N:621:LYS:HD2	2.49	0.41
2:M:149:THR:CG2	2:M:159:ILE:HD11	2.50	0.41
2:M:159:ILE:HG22	2:M:175:GLU:HA	2.02	0.41
2:M:165:LEU:HA	2:M:165:LEU:HD12	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
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
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:CA	3:N:991:GLN:NE2	2.83	0.41
5:X:55:MET:HB3	5:X:59:GLU:OE1	2.20	0.41
5:Y:102:VAL:HG13	5:Y:119:ILE:HD11	2.02	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: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: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
1:B:52:ALA:HB3	1:B:171:PHE:CE1	2.55	0.41
2:C:1014:SER:N	2:C:1019:GLN:O	2.54	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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:160:GLU:O	3:D:164:GLY:C	2.58	0.41
3:D:367:ILE:HG22	3:D:368:VAL:HG23	2.02	0.41
3:D:181:ASP:OD2	3:D:441:ARG:HD3	2.20	0.41
3:D:483:HIS:CB	3:D:484:PRO:CD	2.94	0.41
3:D:6:ARG:HG3	3:D:7:LYS:HD3	2.01	0.41
3:D:860:LEU:HD23	3:D:877:PRO:HB2	2.02	0.41
4:E:52:GLU:OE1	4:E:52:GLU:N	2.53	0.41
1:F:109:VAL:HB	1:F:130:ALA:CA	2.51	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
2:H:164:PRO:HB3	2:H:265:ARG:H	1.85	0.41
2:H:30:LEU:HD12	2:H:30:LEU:O	2.20	0.41
2:H:31:GLN:NE2	2:H:31:GLN:O	2.53	0.41
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:479:VAL:HG22	2:H:506:ASN:CA	2.50	0.41
2:H:471:TYR:C	2:H:483:VAL:HG13	2.40	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: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
3:I:28:LYS:CG	3:I:30:GLU:HG2	2.50	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:CB	2:M:383:ARG:HH11	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:HG22	2:M:855:VAL:O	2.19	0.41
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: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
3:N:171:LEU:HD23	3:N:172:PRO:O	2.21	0.41
3:N:20:SER:C	3:N:22:SER:H	2.23	0.41
3:N:710:ARG:HB2	3:N:1227:GLN:HE22	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:HA	3:N:972:LEU:HD13	1.92	0.41
4:O:36:LYS:NZ	4:O:36:LYS:HA	2.35	0.41
5:X:115:THR:HB	5:X:116:PRO:CD	2.51	0.41
5:X:7:LEU:O	5:X:74:ILE:HA	2.20	0.41
5:Y:58:ASN:HD22	5:Y:58:ASN:HA	1.66	0.41
3:N:977:ALA:HB2	5:Z:112:VAL:HG11	2.03	0.41
3:N:1359:GLN:NE2	5:Z:48:TYR:OH	2.47	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: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
1:B:75:VAL:O	1:B:79:ILE:HG23	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:1144:LEU:CD2	3:D:1186:VAL:HG11	2.50	0.41
3:D:1087:ARG:NH2	3:D:1235:GLN:HE21	2.18	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
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:HH11	1:G:146:ARG:HG3	1.85	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
2:H:267:TYR:HD2	2:H:267:TYR:N	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
3:I:908:LYS:N	3:I:1027:GLY:HA3	2.28	0.41
3:I:1122:LEU:O	3:I:1122:LEU:HD23	2.20	0.41
3:I:1424:VAL:CG1	3:I:1425:THR:N	2.84	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:799:LYS:HD2	3:I:800:LYS:C	2.41	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
1:K:67:THR:HG22	2:M:627:ARG:NE	2.34	0.41
2:M:673:LEU:C	2:M:673:LEU:HD13	2.41	0.41
2:M:673:LEU:O	2:M:869:VAL:HG12	2.21	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
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
2:M:1073:GLY:N	3:N:659:LYS:HD3	2.35	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: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:41:ASN:HB3	2:C:42:VAL:H	1.70	0.41
2:C:460:ARG:HB2	2:C:460:ARG:NH1	2.36	0.41
2:C:48:PHE:O	2:C:50:GLU:N	2.54	0.41
2:C:567:GLN:NE2	2:C:567:GLN:HA	2.35	0.41
2:C:605:LYS:HB2	2:C:612:VAL:CB	2.50	0.41
2:C:66:LEU:HD23	2:C:355:VAL:HG21	2.02	0.41
2:C:750:LYS:CE	2:C:751:PRO:HD3	2.50	0.41
3:D:1114:THR:O	3:D:1114:THR:HG23	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
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
2:C:1020:PRO:HG2	3:D:624:ASP:OD1	2.20	0.41
3:D:654:LYS:CB	3:D:655:PRO:HD3	2.50	0.41
3:D:874:GLU:H	3:D:874:GLU:HG2	1.52	0.41
1:F:102:LYS:HB3	1:F:102:LYS:HE2	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:281:LEU:HD12	2:H:306:THR:N	2.35	0.41
2:H:673:LEU:HD22	2:H:674:VAL:N	2.34	0.41
2:H:630:ARG:HD3	2:H:705:ILE:HB	2.02	0.41
2:H:73:LEU:HD22	2:H:94:LEU:HA	2.02	0.41
2:H:806:LEU:HD23	2:H:806:LEU:HA	1.92	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
3:I:389:GLU:H	3:I:389:GLU:HG2	1.76	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:539:ASP:OD2	3:I:539:ASP:N	2.53	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:1003:VAL:CG2	3:N:1004:THR:N	2.81	0.41
3:N:996:TRP:CE2	3:N:1056:PRO:HG2	2.55	0.41
3:N: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
3:N:30:GLU:HA	3:N:30:GLU:OE1	2.19	0.41
3:N:616:GLN:C	3:N:618:LEU:H	2.23	0.41
3:N:910:SER:HG	3:N:911:LEU:HD12	1.85	0.41
3:N:760:ARG:NH1	4:O:61:VAL:CG2	2.84	0.41
5:X:36:ALA:HA	5:X:39:GLU:HB2	2.02	0.41
3:N:982:PHE:CZ	5:Z:118:LYS:O	2.73	0.41
2:C:1042:ALA:HA	3:D:1220:ALA:HB3	2.03	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
3:D:1149:LEU:CD1	3:D:1160:LEU:HD22	2.51	0.41
3:D:1256:LEU:C	3:D:1256:LEU:HD13	2.41	0.41
3:D:138:LYS:O	3:D:452:ILE:HG21	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:165:LYS:HG2	3:D:166:GLN:N	2.36	0.41
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:86:ARG:NH1	3:D:86:ARG:HG3	2.36	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:1330:ILE:HG22	3:I:1331:ASP:N	2.35	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
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:CD1	1:K:165:ILE:N	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:545:ASN:HB3	2:M:583:LEU:CD2	2.50	0.41
2:M:537:LYS:CE	2:M:905:ILE:HD13	2.36	0.41
3:N:1099:VAL:C	3:N:1101:VAL:H	2.23	0.41
3:N:1118:ILE:N	3:N:1118:ILE:HD12	2.36	0.41
3:N:1209:LEU:HD12	3:N:1219:GLU:OE2	2.21	0.41
3:N:1468:LEU:CD2	3:N:1468:LEU:N	2.84	0.41
3:N:160:GLU:HG2	3:N:161:LEU:N	2.36	0.41
3:N:36:THR:C	3:N:38:LYS:N	2.73	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
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
3:I:983:LEU:HD21	5:Y:112:VAL:CG2	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Y:44:GLU:HG3	5:Y:44:GLU:H	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
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:30:LEU:HD12	2:C:30:LEU:O	2.21	0.41
2:C:334:ARG:HH11	2:C:418:LEU:CD2	2.34	0.41
2:C:580:MET:O	2:C:902:ILE:HG23	2.20	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:677:MET:CE	2:C:983:ILE:HD13	2.51	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: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
2:H:343:GLN:O	2:H:346:VAL:HB	2.21	0.41
2:H:474:VAL:CG1	2:H:529:VAL:HG12	2.43	0.41
2:H:684:PHE:CZ	3:I:730:PRO:HB2	2.56	0.41
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
3:I:1282:ARG:C	3:I:1283:ILE:HD13	2.41	0.41
3:I:177:ALA:O	3:I:178:LEU:HD23	2.20	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:700:VAL:CG1	3:I:718:PRO:HG2	2.49	0.41
1:G:80:LEU:HD12	3:I:844:ALA:HA	2.02	0.41
3:I:875:THR:HG22	3:I:876:SER:H	1.84	0.41
1:L:107:LYS:HB2	1:L:107:LYS:NZ	2.35	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:HD13	2:M:451:LEU:O	2.21	0.41
2:M:503:LEU:HD21	2:M:506:ASN:CA	2.51	0.41
2:M:673:LEU:HD22	2:M:990:GLY:O	2.20	0.41
3:N:160:GLU:C	3:N:162:ARG:H	2.24	0.41
3:N:409:VAL:HG23	3:N:421:LEU:O	2.21	0.41
3:N:470:LEU:HB2	3:N:503:LEU:HD21	2.02	0.41
3:N:95:LEU:CD2	3:N:574:LEU:HD21	2.42	0.41
3:N:639:LEU:HD21	3:N:766:ALA:CB	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:680:GLN:C	3:N:682:ASP:H	2.24	0.41
3:N:711:LEU:C	3:N:713:ILE:H	2.24	0.41
3:N:7:LYS:HE2	3:N:7:LYS:HB3	1.85	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:907:GLU:CD	3:N:908:LYS:HG3	2.41	0.41
5:Z:155:HIS:O	5:Z:156:GLY:C	2.58	0.41
5:Z:68:ILE:O	5:Z:69:LEU:C	2.60	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:1045:ALA:HB1	2:C:1048:THR:HB	2.03	0.41
2:C:218:VAL:C	2:C:220:GLY:N	2.74	0.41
2:C:127:PHE:CD2	2:C:386:PHE:HE2	2.39	0.41
2:C:553:ASP:HA	2:C:881:ASN:HA	2.03	0.41
2:C:922:PHE:HB2	2:C:967:PHE:HD2	1.85	0.41
3:D:1424:VAL:O	3:D:1427:SER:HB3	2.21	0.41
3:D:186:VAL:HG23	3:D:189:GLN:OE1	2.21	0.41
3:D:869:MET:HE2	3:D:897:TRP:HE1	1.85	0.41
1:G:209:GLU:O	1:G:213:GLN:NE2	2.54	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
2:H:198:ARG:HH12	2:H:231:PRO:HG3	1.85	0.41
3:D:207:PHE:CE2	2:H:283:ILE:HB	2.55	0.41
2:H:352:ALA:HA	2:H:355:VAL:HG12	2.03	0.41
2:H:35:PRO:C	2:H:37:GLU:H	2.25	0.41
2:H:442:GLU:CD	2:H:541:SER:HB3	2.40	0.41
2:H:555:ALA:HB2	3:I:1070:TYR:HE2	1.86	0.41
2:H:630:ARG:HH11	2:H:630:ARG:HG3	1.85	0.41
2:H:994:ILE:CD1	2:H:994:ILE:N	2.77	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:1485:GLN:HG3	4:J:79:LEU:N	2.20	0.41
3:I:191:LEU:HD22	3:I:393:ILE:CD1	2.50	0.41
2:H:682:TYR:CD1	3:I:635:PRO:HG2	2.56	0.41
3:I:841:TYR:O	3:I:864:VAL:HG12	2.21	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:106:PRO:HA	1:L:132:LEU:O	2.21	0.41
1:L:99:LEU:HD21	1:L:115:LEU:O	2.20	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:461:VAL:HG12	2:M:462:ASP:O	2.21	0.41
2:M:603:VAL:O	2:M:646:GLY:HA2	2.21	0.41
2:M:600:ASP:CG	2:M:650:ARG:HA	2.41	0.41
2:M:835:VAL:C	2:M:837:ASP:H	2.24	0.41
2:M:549:PHE:H	2:M:843:HIS:HE1	1.69	0.41
3:N:1225:ALA:O	3:N:1229:ILE:HG13	2.21	0.41
3:N:12:LEU:HD21	3:N:1452:ILE:O	2.21	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
2:M:1087:VAL:HG23	3:N:524:LEU:HD21	2.03	0.41
3:N:703:ASN:CG	3:N:713:ILE:HG12	2.41	0.41
3:N:771:SER:CB	3:N:778:LEU:HD11	2.42	0.41
3:N:892:ASP:OD2	3:N:894:LYS:HB2	2.20	0.41
5:Z:90:GLU:HA	5:Z:100:LEU:O	2.21	0.41
5:Z:29:ILE:CG2	5:Z:55:MET:HG2	2.48	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:156:HIS:CG	1:B:157:GLY:N	2.88	0.41
1:B:85:LEU:HB2	1:B:127:LEU:HD13	2.03	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: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
2:C:678:PRO:HD3	2:C:873:PRO:CD	2.51	0.41
1:A:38:ASN:HB2	2:C:980:GLY:HA3	2.03	0.41
3:D:115:LEU:O	3:D:115:LEU:HD23	2.20	0.41
3:D:1425:THR:C	3:D:1429:LEU:HD13	2.40	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:6:ARG:HG3	3:D:6:ARG:O	2.21	0.41
3:D:829:VAL:O	3:D:835:SER:HB2	2.21	0.41
1:F:57:TYR:CZ	1:F:161:ARG:HD2	2.56	0.41
1:G:186:LEU:CG	1:G:186:LEU:O	2.69	0.41
2:H:1031:ARG:HG2	2:H:1032:PHE:H	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:198:ARG:NH2	2:H:203:ASP:OD2	2.54	0.41
2:H:211:LEU:HD21	2:H:221:LEU:HD21	2.03	0.41
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
3:I:1139:ASP:OD1	3:I:1357:ARG:CZ	2.69	0.41
3:I:355:VAL:HG23	3:I:356:PRO:HD2	2.02	0.41
3:I:761:ILE:HD13	3:I:761:ILE:HA	1.86	0.41
3:I:761:ILE:HG21	4:J:20:THR:HG23	2.03	0.41
3:I:912:LYS:HG2	3:I:913:ASP:N	2.36	0.41
4:J:54:LEU:O	4:J:54:LEU:HD23	2.20	0.41
1:L:215:VAL:CG2	1:L:216:GLU:N	2.84	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
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
2:M:97:ARG:HG3	2:M:110:GLU:OE2	2.21	0.41
2:M:374:ASN:HD22	2:M:374:ASN:H	1.63	0.41
2:M:376:ARG:HB3	2:M:377:PRO:CD	2.49	0.41
2:M:134:ARG:NH2	2:M:393:GLN:HA	2.30	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
1:K:176:ARG:HD3	2:M:864:GLY:HA3	2.02	0.41
2:M:950:LEU:HA	2:M:950:LEU:HD22	1.95	0.41
3:N: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
3:N:150:ARG:HH12	3:N:468:LEU:CD1	2.26	0.41
3:N:215:TYR:CD2	3:N:381:ALA:O	2.74	0.41
3:N:181:ASP:OD1	3:N:441:ARG:HD3	2.20	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
5:Z:17:GLN:HA	5:Z:20:GLU:OE1	2.21	0.41
2:C:139:GLN:HG2	2:C:140:ILE:N	2.36	0.40
2:C:2:GLU:HB2	2:C:899:GLN:HB3	2.03	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: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:112:ILE:CG2	3:D:113:GLY:N	2.83	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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
1:G:165:ILE:N	1:G:165:ILE:CD1	2.84	0.40
1:G:43:ILE:O	1:G:45:LEU:N	2.54	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:O	2:H:285:LEU:HD23	2.20	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:122:GLU:OE1	3:I:126:VAL:HG21	2.21	0.40
3:I:12:LEU:HD23	3:I:104:PHE:CE1	2.56	0.40
3:I:1390:LEU:C	3:I:1391:GLU:HG3	2.41	0.40
3:I:378:ILE:HG22	3:I:379:ALA:N	2.36	0.40
1:K:171:PHE:O	1:K:172:SER:C	2.59	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
1:L:54:THR:HG22	1:L:158:ILE:HB	2.03	0.40
2:M:1103:ASP:N	2:M:1107:ASN:O	2.52	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:C	2:M:196:LEU:HD23	2.41	0.40
2:M:690:ILE:CD1	2:M:694:LEU:HD13	2.50	0.40
2:M:695:LEU:HG	2:M:695:LEU:O	2.20	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
3:N:618:LEU:HD11	3:N:1463:LYS:HZ2	1.85	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: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
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:134:GLU:OE2	1:A:134:GLU:HA	2.21	0.40
1:A:68:ILE:O	1:A:71:VAL:HB	2.21	0.40
1:A:67:THR:HG22	1:A:74:ASP:CB	2.51	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
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:122:GLU:O	3:D:123:LEU:C	2.58	0.40
3:D:1404:ASN:ND2	3:D:1408:ILE:HD12	2.36	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
2:C:1006:HIS:HB2	3:D:628:ARG:CZ	2.52	0.40
3:D:700:VAL:CG1	3:D:718:PRO:HG2	2.50	0.40
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
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:1144:LEU:O	3:I:1145:TYR:C	2.58	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
1:K:101:LEU:O	1:K:102:LYS:HG3	2.21	0.40
1:K:28:LEU:HB2	1:K:193:ASP:HB2	2.02	0.40
1:L:217:ILE:O	1:L:220:GLU:HB3	2.20	0.40
2:M:1018:GLN:CD	2:M:1060:ILE:HD13	2.41	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:98:LEU:C	2:M:110:GLU:HG2	2.42	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:1368:ILE:CD1	3:N:1368:ILE:H	2.28	0.40
3:N:180:LYS:HB2	3:N:183:GLU:HB2	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:28:LYS:CD	3:N:29:PRO:HD2	2.51	0.40
3:N:417:PRO:HG3	3:N:431:VAL:HA	2.04	0.40
3:N:44:LEU:CD2	3:N:44:LEU:O	2.68	0.40
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:925:GLU:OE1	3:N:925:GLU:N	2.54	0.40
3:N:889:ALA:CB	3:N:930:LEU:HA	2.51	0.40
3:N:976:GLN:O	3:N:980:MET:HG2	2.22	0.40
3:N:1219:GLU:HA	4:O:17:TYR:OH	2.21	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:180:GLN:HB2	1:B:196:THR:HG1	1.87	0.40
1:B:77:GLU:HB2	3:D:872:ARG:HH21	1.86	0.40
2:C:35:PRO:C	2:C:37:GLU:H	2.25	0.40
2:C:365:ASP:N	2:C:365:ASP:OD1	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: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
3:D:26:VAL:O	3:D:93:ILE:CD1	2.69	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
1:F:38:ASN:O	1:F:42:ARG:HG3	2.21	0.40
1:F:40:LEU:O	1:F:44:LEU:HG	2.21	0.40
2:H:1070:ILE:HD12	3:I:656:PHE:CE1	2.57	0.40
3:D:167:GLU:CD	2:H:214:TYR:HB3	2.41	0.40
2:H:227:PHE:C	2:H:229:MET:N	2.75	0.40
2:H:21:ILE:O	2:H:25:SER:HB2	2.22	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:CG	2:H:516:ARG:O	2.65	0.40
2:H:896:PHE:CE2	2:H:925:TYR:HB2	2.57	0.40
1:F:38:ASN:HB2	2:H:980:GLY:HA3	2.02	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:4:GLU:OE1	3:I:1470:ARG:NH1	2.54	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
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
4:J:47:LYS:CE	4:J:55:PHE:HE2	2.35	0.40
1:K:112:ARG:HH21	1:K:125:PRO:HB3	1.85	0.40
1:K:9:PRO:HA	1:K:26:GLU:O	2.21	0.40
2:M:12:VAL:CG1	2:M:13:ILE:N	2.81	0.40
2:M:1:MET:SD	2:M:900:ARG:CZ	3.10	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: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
2:M:430:VAL:CG1	3:N:1075:HIS:HA	2.51	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
3:N:508:ARG:HD3	3:N:510:GLU:OE2	2.21	0.40
3:N:51:GLY:CA	3:N:86:ARG:HG3	2.45	0.40
3:N:879:ARG:NH1	3:N:905:PRO:HA	2.33	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:C	2:C:359:MET:SD	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: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
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
2:H:1076:VAL:HG21	3:I:752:SER:CA	2.44	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:NH1	2:H:516:ARG:H	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
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:775:GLY:HA3	3:I:1145:TYR:HE1	1.86	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:495:ARG:O	3:I:499:VAL:HG23	2.22	0.40
3:I:653:PHE:CE2	3:I:695:ILE:HD13	2.56	0.40
3:I:650:LEU:HA	3:I:691:LEU:HD21	2.02	0.40
2:H:1004:LYS:HG2	3:I:744:GLN:NE2	2.37	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
1:K:54:THR:CG2	1:K:158:ILE:HG13	2.38	0.40
1:K:49:PRO:HB3	1:K:148:VAL:HG22	2.04	0.40
1:L:122:ILE:C	1:L:124:ASN:H	2.24	0.40
1:L:41:ARG:HD3	1:L:179:PHE:CE2	2.56	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
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:141:HIS:CB	2:M:418:LEU:CB	3.00	0.40
2:M:45:GLN:HG3	2:M:71:TYR:CE2	2.56	0.40
2:M:532:MET:HE3	2:M:533:ASP:O	2.22	0.40
2:M:651:LYS:O	2:M:651:LYS:HG3	2.21	0.40
2:M:700:TYR:C	2:M:833:LEU:HD13	2.42	0.40
2:M:572:ILE:CD1	2:M:701:THR:HB	2.39	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:705:ILE:H	2:M:705:ILE:HD12	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:670:GLN:O	2:M:994:ILE:HD12	2.21	0.40
3:N:1061:PHE:HA	3:N:1061:PHE:HD1	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
3:N:129:PHE:O	3:N:568:ARG:NH2	2.41	0.40
3:N:111:LYS:NZ	3:N:1452:ILE:HD11	2.37	0.40
3:N:29:PRO:HG3	3:N:549:ASN:ND2	2.36	0.40
3:N:728:LEU:HD12	3:N:729:HIS:N	2.35	0.40
3:N:702:LEU:HA	3:N:746:ALA:O	2.20	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
5:Y:102:VAL:CG1	5:Y:119:ILE:HD11	2.52	0.40
3:I:1359:GLN:HE22	5:Y:52:ARG:NH2	2.20	0.40
1:B:26:GLU:CB	1:B:27:PRO:HA	2.51	0.40
2:C:267:TYR:HD2	2:C:267:TYR:N	2.17	0.40
2:C:51:THR:OG1	2:C:348:LEU:HB3	2.21	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:HA	2:C:586:ARG:HH11	1.86	0.40
2:C:746:GLY:O	2:C:799:ILE:HD11	2.21	0.40
2: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: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
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
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:1002:GLU:C	2:H:1004:LYS:H	2.24	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:48:PHE:O	2:H:50:GLU:N	2.55	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
3:I:1192:LEU:HD11	3:I:1369:GLU:HG2	2.03	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
1:K:124:ASN:N	1:K:125:PRO:HD3	2.37	0.40
1:K:181:VAL:N	2:M:937:ASP:OD1	2.55	0.40
1:K:80:LEU:CD2	1:K:81:ASN:OD1	2.70	0.40
2:M:1008:ARG:HD2	2:M:1027:PHE:O	2.21	0.40
2:M:10:ARG:NE	2:M:10:ARG:HA	2.36	0.40
2:M:218:VAL:C	2:M:220:GLY:H	2.24	0.40
2:M:22:GLN:HB3	2:M:121:MET:CE	2.52	0.40
2:M:292:ARG:HE	2:M:292:ARG:HA	1.85	0.40
2:M:302:VAL:C	2:M:305:PRO:HD2	2.42	0.40
2:M:390:GLN:CD	2:M:390:GLN:H	2.25	0.40
2:M:449:ILE:C	2:M:451:LEU:H	2.25	0.40
1:K:133:GLU:OE1	2:M:605:LYS:HG3	2.21	0.40
3:N:1256:LEU:O	3:N:1257:PRO:C	2.60	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
2:M:873:PRO:HB3	3:N:949:ILE:CD1	2.52	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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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
5	Y	58	ASN
5	Y	63	ASP
5	Y	87	SER
5	Y	95	LEU
5	Y	96	SER
5	Y	99	ARG
5	Y	102	VAL
5	Y	106	SER
5	Y	114	ASP
5	Y	119	ILE
5	Y	130	LEU
5	Y	138	LEU
5	Y	148	GLU
5	Z	3	ARG
5	Z	14	ARG
5	Z	18	GLN
5	Z	26	LEU
5	Z	33	PHE
5	Z	38	GLU
5	Z	41	ASP
5	Z	42	LEU
5	Z	45	ASN
5	Z	56	TRP
5	Z	57	GLN
5	Z	62	ILE
5	Z	85	LEU
5	Z	98	GLU
5	Z	99	ARG
5	Z	101	SER
5	Z	114	ASP
5	Z	115	THR
5	Z	120	SER
5	Z	133	ARG
5	Z	139	SER
5	Z	142	THR
5	Z	144	LYS
5	Z	154	ILE

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

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
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 carbohydrates in this entry.

## 5.6 Ligand geometry [i](#)

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

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

No monomer is involved in short contacts.

## 5.7 Other polymers [i](#)

There are no such residues in this entry.

## 5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

## 6 Fit of model and data

### 6.1 Protein, DNA and RNA chains

In the following table, the column labelled '#RSRZ > 2' contains the number (and percentage) of RSRZ outliers, followed by percent RSRZ outliers for the chain as percentile scores relative to all X-ray entries and entries of similar resolution. The OWAB column contains the minimum, median, 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 carbohydrates in this entry.

### 6.4 Ligands [i](#)

In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. 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
6	ZN	N	1601	1/1	0.95	0.06	333,333,333,333	0
7	MG	I	1602	1/1	0.95	1.08	114,114,114,114	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.