



# Full wwPDB X-ray Structure Validation Report ⓘ

Sep 17, 2023 – 10:30 AM EDT

PDB ID : 4YFX  
Title : Escherichia coli RNA polymerase in complex with Myxopyronin B  
Authors : Molodtsov, V.; Fleming, P.R.; Eyermann, C.J.; Ferguson, A.D.; Foulk, M.A.;  
McKinney, D.C.; Masse, C.E.; Buurman, E.T.; Murakami, K.S.  
Deposited on : 2015-02-25  
Resolution : 3.84 Å(reported)

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

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

A user guide is available at

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

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

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

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

MolProbity : 4.02b-467  
Mogul : 1.8.5 (274361), CSD as541be (2020)  
Xtrriage (Phenix) : 1.13  
EDS : 2.35.1  
buster-report : 1.1.7 (2018)  
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) : 2.35.1

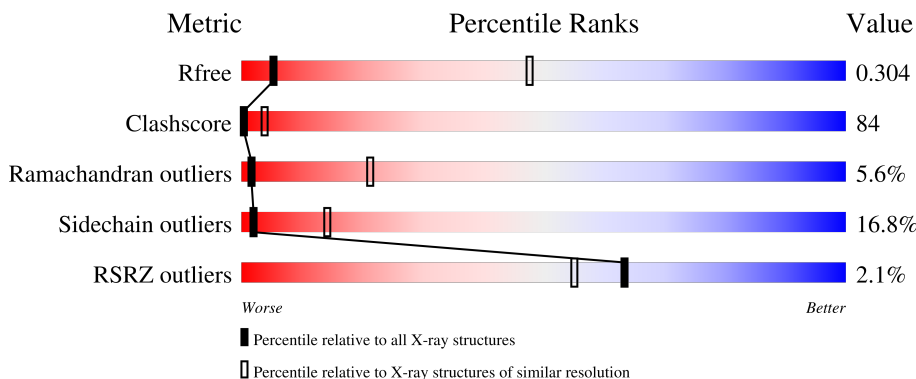
# 1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

*X-RAY DIFFRACTION*

The reported resolution of this entry is 3.84 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	1242 (4.08-3.60)
Clashscore	141614	1004 (4.04-3.64)
Ramachandran outliers	138981	1003 (4.06-3.62)
Sidechain outliers	138945	1266 (4.08-3.60)
RSRZ outliers	127900	1149 (4.08-3.60)

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

Mol	Chain	Length	Quality of chain
1	A	329	
1	B	329	
1	G	329	
1	H	329	
2	C	1342	

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Mol	Chain	Length	Quality of chain
2	I	1342	<p>2% 20% 65% 14%</p>
3	D	1407	<p>12% 52% 17% 17%</p>
3	J	1407	<p>13% 53% 15% 18%</p>
4	E	91	<p>22% 67% 9%</p>
4	K	91	<p>8% 19% 60% 8% 13%</p>
5	F	613	<p>4% 16% 46% 12% 25%</p>
5	L	613	<p>3% 17% 48% 9% 25%</p>

## 2 Entry composition [i](#)

There are 8 unique types of molecules in this entry. The entry contains 55388 atoms, of which 33 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	229	Total	C	N	O	S	0	0	0
			1779	1108	316	349	6			
1	B	289	Total	C	N	O	S	0	0	0
			2239	1403	393	435	8			
1	G	227	Total	C	N	O	S	0	0	0
			1755	1093	311	345	6			
1	H	216	Total	C	N	O	S	0	0	0
			1662	1038	292	326	6			

- 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	1340	Total	C	N	O	S	0	0	0
			10564	6628	1838	2055	43			
2	I	1340	Total	C	N	O	S	0	0	0
			10552	6621	1835	2053	43			

- 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	1166	Total	C	N	O	S	0	0	0
			9062	5701	1622	1693	46			
3	J	1155	Total	C	N	O	S	0	0	0
			9021	5675	1617	1683	46			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
4	E	89	Total	C	N	O	S	0	0	0
			691	421	129	140	1			
4	K	79	Total	C	N	O	S	0	0	0
			627	382	118	126	1			

- Molecule 5 is a protein called RNA polymerase sigma factor RpoD.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
5	F	458	Total 3726	C 2332	N 668	O 703	S 23	0	0	0
5	L	458	Total 3640	C 2282	N 647	O 690	S 21	0	0	0

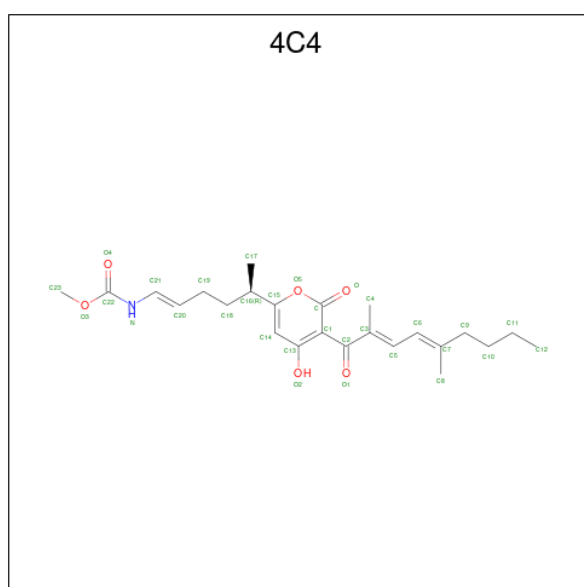
- Molecule 6 is MAGNESIUM ION (three-letter code: MG) (formula: Mg).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
			Total	Mg		
6	D	1	Total 1	Mg 1	0	0
6	J	1	Total 1	Mg 1	0	0

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

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

- Molecule 8 is Myxopyronin B (three-letter code: 4C4) (formula: C<sub>24</sub>H<sub>33</sub>NO<sub>6</sub>).

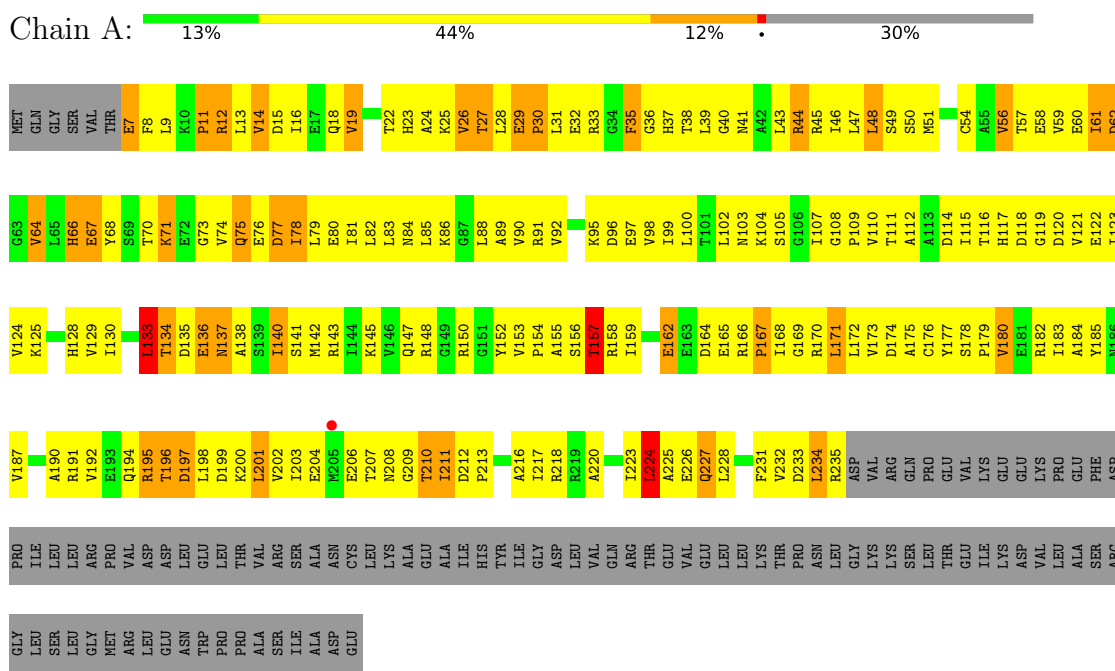


Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
			Total	C	H	N	O		
8	D	1	64	24	33	1	6	0	0

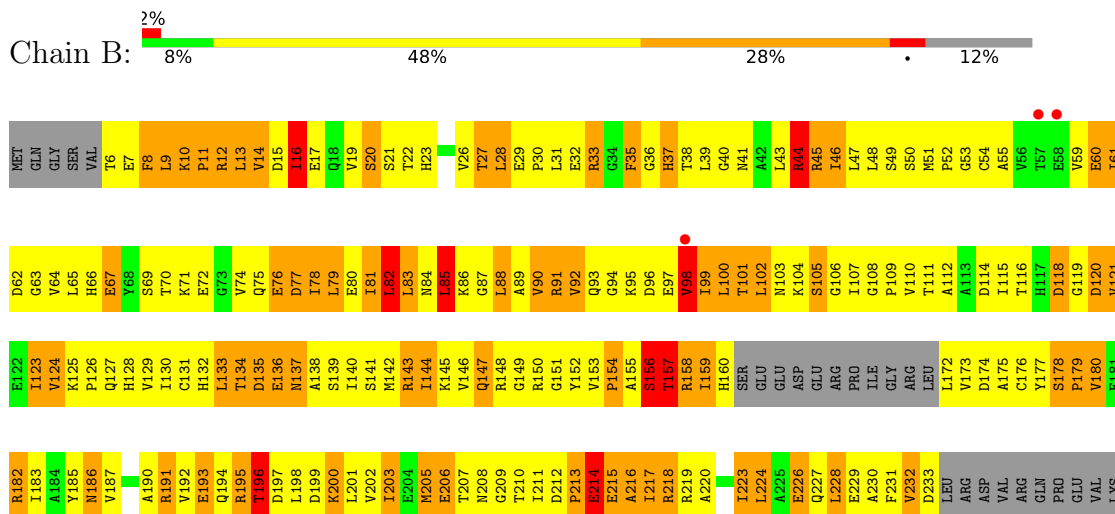
### 3 Residue-property plots [i](#)

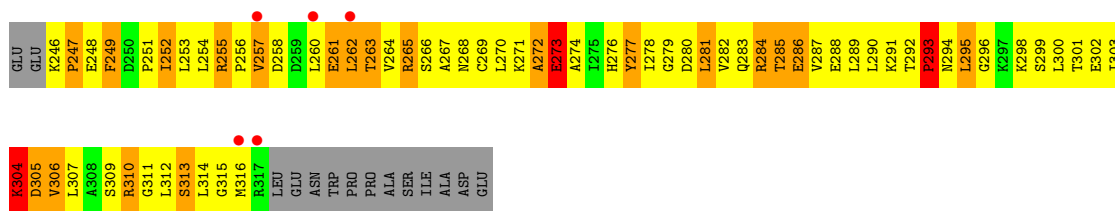
These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and electron density.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

- Molecule 1: DNA-directed RNA polymerase subunit alpha

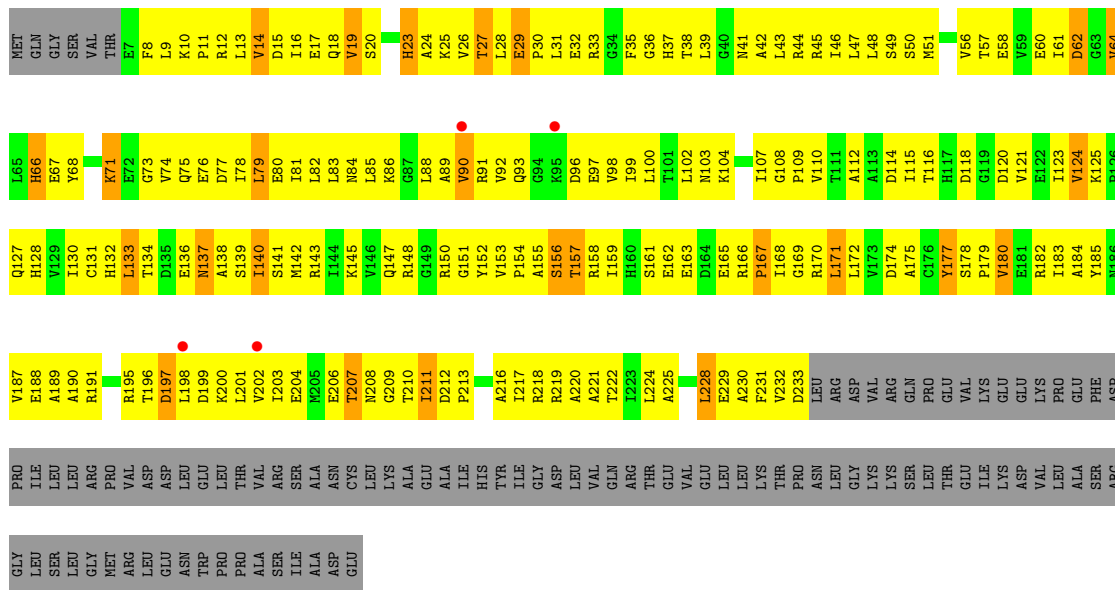
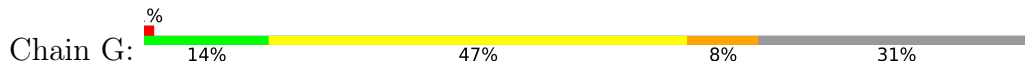


- Molecule 1: DNA-directed RNA polymerase subunit alpha

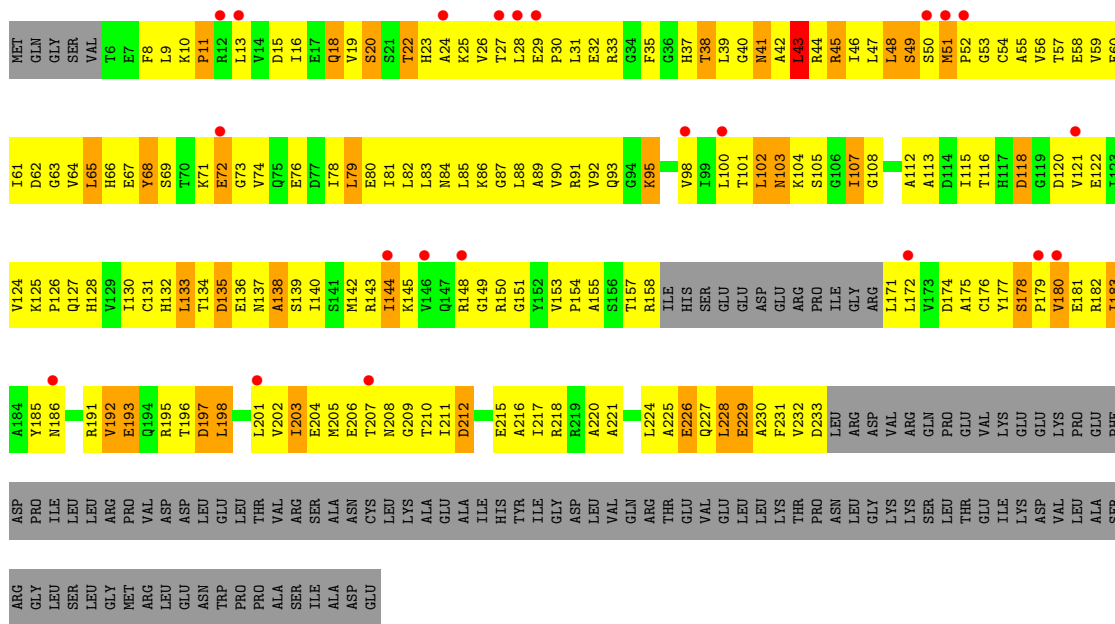




• Molecule 1: DNA-directed RNA polymerase subunit alpha



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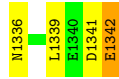




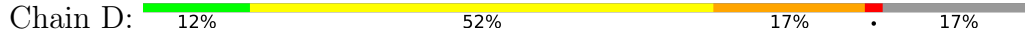




M1273	M1274	E1275	V1276	M1277	M1278	E1279	I1280	Y1281	I1282	A1283	Y1284	Y1285	I1286	L1287	M1288	E1289	Y1290	I1291	I1292	I1293	K1294	S1295	D1296	L1297	V1298	I1299	G1300	R1301	L1302	K1303	M1304	Y1305	K1306	I1307	I1308	M1312	H1313	Q1314	P1317	M1318	M1319	E1321	S1322	F1323	N1324	V1325	L1326	L1327	K1328	E1329	I1330	R1331	S1332	L1333	G1334	I1335							
Q1209	I1210	R1211	L1212	Y1213	D1214	G1215	R1216	T1217	G1218	E1219	K1220	F1221	E1222	R1223	P1224	V1225	T1226	G1227	Y1228	Y1229	M1230	M1231	M1232	L1233	K1234	L1235	M1236	H1237	L1238	A1239	M1240	D1241	M1242	M1243	H1244	A1245	P1246	S1247	T1248	G1249	S1250	Y1251	S1252	L1253	V1254	T1255	Q1256	Q1257	P1258	L1259	G1260	G1261	F1262	G1266	G1267	Q1268	E1272						
R1147	A1148	Y1149	D1150	L1151	G1152	A1153	D1154	V1155	R1156	Q1157	K1158	V1159	D1160	L1161	S1162	T1163	F1164	S1165	D1166	V1169	M1170	R1171	L1172	A1173	L1174	N1175	M1176	R1177	K1178	G1179	M1180	P1181	I1182	A1183	T1184	P1185	V1186	F1187	D1188	K1191	E1192	A1193	I1194	I1195	K1196	E1197	L1198	L1199	L1200	L1201	G1202	D1203	L1204	P1205	G1267	Q1268	E1272						
M1085	P1086	Y1087	E1088	E1089	M1090	G1091	L1092	P1093	D1094	V1095	K1096	L1098	M1099	P1100	L1101	G1102	V1103	P1104	S1105	M1106	M1107	M1108	I1109	G1110	Q1111	I1112	L1113	E1114	T1115	H1116	L1117	G1118	L1119	M1120	A1121	K1122	G1123	I1124	G1125	D1126	K1127	L1128	M1129	A1130	M1131	L1132	K1133	Q1134	Q1135	E1137	L1141	L1142	E1143	F1144	I1145	Q1146							
H1023	E1024	F1025	E1026	K1027	K1028	L1029	E1030	R1033	G1039	R1034	K1035	L1036	T1037	Q1038	L1039	D1040	L1041	L1042	A1043	P1044	G1045	V1046	L1047	K1048	L1049	V1050	K1051	V1052	L1053	L1054	A1055	L1056	K1057	R1058	L1059	R1059	L1060	Q1061	P1062	G1063	D1064	K1065	M1066	R1069	H1070	G1071	M1072	N1073	G1074	V1075	I1076	S1077	K1078	I1079	N1080	P1081	E1089	E1095	A1096	L1021	K1022		
E888	E889	K900	L901	L902	R903	A904	L905	F906	G907	E908	K909	A910	Y913	Y914	D915	L916	S917	L918	R919	V920	F921	P921	N922	G923	V924	S925	G926	T927	V928	L929	D930	V931	N932	V933	F934	T935	R936	Y939	E940	D941	K942	R943	R944	A945	L946	E947	I948	E949	E950	R951	Y952	L953	K954	R955	A956	K957	R958	D959					
E862	E863	L864	L865	L867	E868	A869	G870	L871	F872	S873	R874	F875	R876	A877	V878	L879	V880	A881	G882	G883	V884	E885	A886	S887	K888	L889	R890	D891	K891	L892	P893	R894	D895	R896	W897	L898	E899	L1000	G1001	L1002	T1003	D1004	E1005	E1006	K1007	Q1008	M1009	Q1010	L1011	E1012	Q1013	L1014	A1015	E1016	Q1017	Y1018	L1021	K1022					
Q834	E835	L836	A837	C838	R839	S840	R841	D842	E843	L844	L845	E848	E849	R850	T851	G852	E853	L854	R855	G856	H857	C858	E859	A860	A861	L862	S863	D864	H865	E866	E867	F868	H869	P870	G871	R872	L873	G874	R875	H876	E877	R878	K879	C880	D881	L882	L883	K884	E885	K886	E887	T888	K889	R890	Q891	E892	K893	E894	T895	H896	Q897	L898	E899
T702	G703	M704	E705	F706	R707	W708	A709	V710	W711	W712	T713	R720	G721	T722	Q723	W724	G725	V726	W727	T728	S729	E730	E731	L732	W733	R734	W735	W736	E737	R738	R739	E740	A741	Y742	P743	G744	E745	A746	L747	G748	E749	I750	L753	T754	K755	W756	T757	R758	W759	R760	Q761	A762	D763	G764	R765	W766	L767	R768	L769	Q767			
W768	F769	C770	L773	G774	E775	F776	V777	W778	L779	E782	L783	A784	D785	G786	E789	L791	G792	W793	W794	L795	G796	E797	R798	L799	E800	L801	R802	R803	F804	M805	P806	R807	M808	C809	X810	N811	F812	E813	D814	S815	I816	L817	V818	S819	E820	R821	W822	W823	O824	N825	R826	L827	L828	R829	L830								
S642	S643	L644	F645	S646	G647	D648	Q649	V650	S651	D652	M653	H654	V655	S656	T657	Q658	G659	V660	V661	S662	D663	E664	E665	L666	F667	P668	A669	F670	L671	E672	L673	D674	G675	A676	N677	G678	A679	L680	M681	G682	A683	M684	M685	Q686	R687	Q688	V689	F690	P691	T692	L693	R694	A695	D696	C697	K698	P699	W700	G701				
M577	N582	Q517	S518	N519	P520	L521	S522	E523	E524	T525	H526	K527	R528	R529	M530	S531	A532	L533	T534	T535	G536	E537	E538	R540	E541	R542	F543	E544	E545	E546	E547	E548	E549	E550	H551	E552	T553	H554	Y555	G556	R557	D558	V559	C560	P561	T563	I564	S565	V566	E567	M568	L569	G570	L571	L572	M573	S574	L575	S576				
R452	L453	R454	S455	W456	G457	E458	M459	A460	E461	N462	A463	R464	R465	V466	G467	L468	V469	R470	V471	E472	R473	A474	V475	K476	E477	R478	L479	L480	S481	L482	L483	L484	D485	T486	L487	H488	P489	Q490	D491	K492	M493	K494	A495	K496	P497	I498	S499	A500	A501	V502	K503	E504	F505	F506	S509	Q510	L511	S512					
L386	F389	F390	D393	R394	Y395	D396	L397	S398	A399	W400	G401	R402	M403	K404	F405	M406	R407	S408	L409	L410	R411	E412	E413	L414	G416	S417	G418	I419	L420	D424	L425	L426	D427	M429	K430	K431	L432	I435	M436	N437	C438	V442	D443	D444	I445	D446	H447	L448	G449	M450	R451												



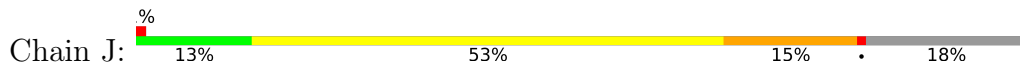
• Molecule 3: DNA-directed RNA polymerase subunit beta'



MET	LYS	ASP	LEU	LEU	LEU	PHE	L8	K9	A10	C70	Q11	Q11	T12	K13	T14	E15	E16	F17	D18	F19	A19	L20	K21	L22	A23	L24	A25	S26	P27	D28	M29	V30	R31	S32	W33	S34	F35	G36	E37	V38	K39	K40	P41	E42	G43	T44	L44	N45	Y46	R47	F48	S49	K50	F51	E52	R53	D54	G55	L56	F57	C58	A59	R60																																																																																																																																																																																																																																																																																																																																																																																																																																		
F61	F62	G63	F64	V65	K66	D67	V68	E69	C70	L71	L71	C72	G73	K74	Y75	R76	R77	L78	K79	H80	R81	G82	Y83	L84	C85	S86	K87	C88	G89	V90	F91	I92	I93	Q94	Q96	Y97	R98	A99	E100	M101	M102	G103	H104	I105	E106	L107	T108	S109	P110	T111	H112	H113	I114	G115	V116	L117	S118	R119	L120																																																																																																																																																																																																																																																																																																																																																																																																																																						
P121	S122	R123	I124	G125	L126	L127	L128	D129	M130	P131	L132	R133	D134	I135	E136	R137	V138	L139	Y140	F141	Y144	V145	V146	I147	E148	M151	T152	M153	L154	E155	Q156	Q157	Q158	I159	L160	T161	Q164	Y165	G166	L169	E170	E171	F172	G173	D174	E175	F176	D177	A178	D179	L180	G181	A182	E183	L184																																																																																																																																																																																																																																																																																																																																																																																																																																										
I185	Q186	A187	L188	L189	K190	S191	N192	L193	L194	E195	Q196	C198	E199	L199	Q200	R201	L202	E203	E204	L205	N206	E207	S210	E211	T212	C213	R214	K215	K216	L217	T218	R219	L220	L221	K222	L223	L224	E225	A226	D228	S229	F227	V228	Q229	S230	G231	N232	K233	P234	E235	L236	M237	F176	H113	D177	L180	L242	P243	V244	L245																																																																																																																																																																																																																																																																																																																																																																																																																																					
P246	F247	D248	L249	R250	P251	L252	V253	P254	L255	D256	Q257	C258	R259	F260	A261	T262	S263	D264	L265	N266	L267	L268	Y269	R270	R271	N276	R277	R278	L279	K280	R281	L282	L283	D284	L285	A286	A287	P288	D289	L290	L291	V292	R293	M294	E295	K296	R297	M298	L299	Q300	E301	L302	A302	V303	D304	A305	L306	C307	L308																																																																																																																																																																																																																																																																																																																																																																																																																																						
N309	G310	R311	R312	G313	R314	A315	L316	T317	C318	S319	N320	K321	R322	F323	L324	K325	S326	L327	A328	D329	K330	L331	K332	G333	K334	Q335	G336	R337	F338	R339	Q340	N341	L342	L343	G344	K345	R346	V347	D348	Y349	S350	G351	R352	S353	V354	L355	T356	V357	C358	P359	T360	L361	R362	L363	T364	R365	C366	L367	G368																																																																																																																																																																																																																																																																																																																																																																																																																																						
P369	K370	A373	E374	E375	L376	F377	L378	L379	F380	F381	L382	G383	K384	L385	E386	L387	L390	I394	K395	A396	A397	A398	K399	M400	E401	E402	R403	E404	E405	A406	V407	V408	V409	D410	L411	L412	D413	E414	V415	L416	R417	H418	P419	P420	V421	L422	L423	N424	R425	L426	A427	A428	R429	T430	L431	L432	L433	L434	L435	L436	L437	L438	L439	L440	L441	L442	L443	L444	L445	L446	L447	L448	L449	L450	L451	L452	L453	L454	L455	L456	L457	L458	L459	L460	L461	L462	L463	L464	L465	L466	L467	L468	L469	V470	P471	L472	T473	L474	L475	E476	Q477	L478	E479	A480	R481	L482	L483	L484	M485	A486	L487	L488	L489	L490	L491	L492	L493	L494	L495	L496	L497	L498	L499	L500	L501	L502	L503	L504	L505	L506	L507	L508	L509	L510	L511	L512	M513	T514	R515	D516	C517	V518	N519	A520	C521	K522	D523	E524	G525	M526	V527	P528	T529	G530	P531	E532	A533	E534	R535	L536	V537	K538	K539	A540	S541	I542	S543	L544	H545	L546	L547	L548	L549	L550	L551	L552	L553	L554	L555	L556	L557	L558	L559	L560	L561	L562	L563	L564	L565	L566	L567	L568	L569	L570	L571	L572	L573	V574	G575	R576	A577	L578	L579	M580	M581	L582	L583	M584	V585	P586	L587	G588	L589	S590	L591	E592	L593	Q594	A595	E596	L597	G598	K599	E600	I601	S602	L603	M604	L605	N606	T607	C608	L609	R610	V611	L612	L613	L614	L615	L616	L617	L618	L619	L620	L621	L622	L623	L624	L625	L626	L627	L628	L629	L630	L631	L632	L633	L634	L635	L636	L637	L638	L639	L640	L641	L642	L643	L644	L645	L646	L647	L648	L649	L650	L651	L652	L653	L654	L655	L656	L657	L658	L659	L660	L661	L662	L663	L664	Q667	S670	G671	L672	V673	T674	L675	L676	L677	L678	L679	L680	L681	L682	L683	L684	L685	L686	L687	L688	L689	L690	L691	L692	L693	L694	L695	L696	L697	L698	L699	L700	L701	L702	L703	L704	L705	L706	L707	L708	L709	L710	L711	L712	L713	L714	L715	L716	L717	L718	L719	L720	L721	L722	L723	L724	L725	L726	L727	L728	L729	L730	L731	G732	S733	Q736	I737	R738	Q739	L740	L741	L742	L743	L744	L745	L746	L747	L748	L749	L750	L751	L752	L753	L754	L755	L756	L757	L758	L759	L760	L761	L762	L763	L764	L765	L766	L767	L768	L769	L770	Q771	F772	F773	L774	S775	L776	H777	L778	L779	L780	L781	L782	L783	L784	L785	L786	L787	L788	K789	T790	G791	N792	S793	G794	L795	L796	L797	L798	P799	R800	L801	L802	L803	L804	L805	L806	L807	L808	L809	L810	L811	L812	L813	L814	L815	L816	L817	L818	L819	L820	L821	L822	L823	L824	L825	L826	E827	G828	G829	L830	K831	K832	R833	P834	L835	L836	D837	R838	L839	L840	L841	L842	L843	L844	L845	L846	L847	L848	L849	K850	P851	G852	T853	L854	D855	L856	L857	L858	P859	R860	N861	L864	H865

E866	Q867	W868	C869	D870	L871	L872	E873	E874	S875	S876	<b>V877</b>	<b>D878</b>	A879	W880	K881	W882	R883	S884	W885	W886	S887	C888	<b>D889</b>	T890	D891	F892	G893	W894	C895	A896	H897	C898	<b>R899</b>	<b>G900</b>	R901	D902	L903	A904	R905	<b>G906</b>	H907	I908	I909	<b>R910</b>	K911	G912	E913	A914	I915	G916	<b>V917</b>	I918	A919	A920	Q921	<b>S922</b>	I923	G924	E925		
P926	<b>G927</b>	Q929	L930	<b>T931</b>	MET	THR	ARG	THR	PHE	HIS	ILE	GLY	GLY	ALA	ALA	VAL	SER	ALA	ALA	ALA	ALA	GLU	SER	SER	ILE	GLN	GLN	VAL	VAL	ASN	GLY	GLU	THR	SER	ILE	ASN	ASN	VAL	LYS	LYS	VAL	VAL	VAL	VAL	GLY	GLY	LYS	LEU	VAL	ILE	THR	SER	ARG	THR	ASN	THR	THR	LEU	LYS	GLN	ALA
ASP	GLU	PHE	GLY	THR	THR	LYS	GLU	GLU	SER	THR	LYS	VAL	TYR	GLY	VAL	VAL	LEU	VAL	ALA	LYS	GLY	ASP	GLY	GLU	GLN	VAL	VAL	ALA	ALA	ASN	GLY	GLU	THR	THR	VAL	ALA	ALA	GLN	THR	MET	PRO	VAL	GLU	GLY	THR	GLY	THR	ARG	PHE	THR	ARG	ASN	THR	ASP	GLY	GLN	THR				
ILE	THR	ARG	GLN	THR	ASP	GLU	LEU	THR	THR	GLY	THR	VAL	VAL	VAL	VAL	VAL	LEU	ASP	SER	ALA	ALA	GLU	GLY	GLY	GLY	GLY	GLY	LYS	ASP	LEU	LEU	THR	PRO	ALA	ALA	GLN	GLY	GLY	PRO	VAL	GLY	THR	GLY	THR	ALA	ALA	GLN	THR	ARG	THR	ASN	THR	GLY	GLN	ALA						
ILE	VAL	GLN	LEU	GLU	ASP	GLY	VAL	GLN	VAL	ILE	SER	SER	GLY	ASP	THR	LEU	ALA	ARG	ILE	PRO	GLN	GLY	THR	THR	THR	THR	THR	LYS	ASP	ILE	VAL	VAL	ASP	ASP	ALA	GLN	GLY	PRO	VAL	GLY	THR	GLY	THR	ALA	ALA	GLY	THR	ARG	THR	ASN	THR	GLY	GLN	ALA							
G1186	K1187	T1188	T1189	K1170	G1171	K1172	R1173	R1174	L1175	V1176	I1177	V1178	P1179	V1180	D1181	G1182	S1183	D1184	P1185	Y1186	E1187	M1188	M1189	I1190	P1191	E1192	W1193	R1194	I1195	Q1196	L1196	M1197	F1198	F1199	E1200	G1201	E1202	R1203	V1204	E1205	R1206	R1207	D1208	V1209	I1210	S1211	D1212	G1213	P1214	E1215	A1216	P1217	H1218	I1219	I1220	S1221	L1222	R1223	L1224	G1225	
V1226	H1227	A1228	A1229	V1229	T1230	R1231	Y1232	I1233	M1234	M1235	E1236	I1237	Q1238	D1239	V1240	I1241	R1242	L1243	V1246	R1247	I1248	M1249	D1250	K1251	H1252	E1253	E1254	V1255	I1256	V1257	R1258	Q1259	L1260	L1261	R1262	K1263	A1264	T1265	I1266	V1267	M1268	A1269	G1270	S1271	S1272	D1273	L1274	L1275	E1276	G1277	E1278	D1279	V1280	E1281	Y1282	S1283	R1284	L1285	K1286		
I1287	A1288	<b>M1289</b>	E1293	A1294	<b>K1297</b>	V1298	P1299	A1300	A1301	T1301	Y1302	S1303	R1304	L1306	L1307	G1308	I1309	T1310	E1311	A1312	S1313	<b>L1314</b>	A1315	T1316	E1317	A1318	V1319	I1320	S1321	A1322	A1323	F1324	F1325	Q1326	<b>E1327</b>	T1328	T1329	R1330	V1331	L1332	E1333	E1334	A1335	A1336	V1337	A1338	<b>G1339</b>	K1340	D1342	E1343	V1344	L1345	R1346	G1347	L1348	E1349					
N1350	V1351	I1352	V1353	R1354	R1355	L1356	I1357	P1358	A1359	G1360	T1361	G1362	Y1363	H1366	Q1367	D1368	R1369	<b>M1370</b>	R1371	R1372	A1373	A1374	A1375	G1376	GLU	ALA	ALA	PRO	ALA	PRO	GLN	VAL	THR	ALA	GLY	ASP	ALA	SER	ALA	ALA	SER	SER	SER	LEU	ALA	ALA	ASN	ALA	GLY	LEU	GLY	GLY	SER	GLY	SER	GLY	GLU				

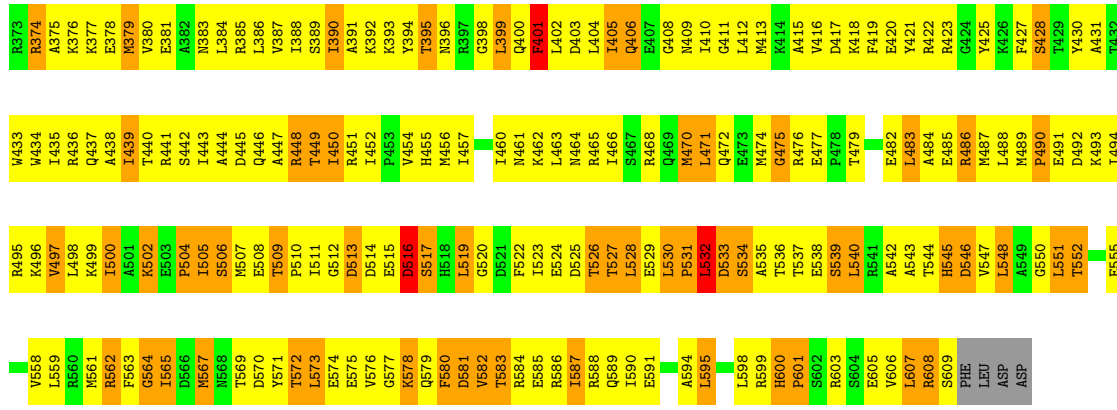
• Molecule 3: DNA-directed RNA polymerase subunit beta'



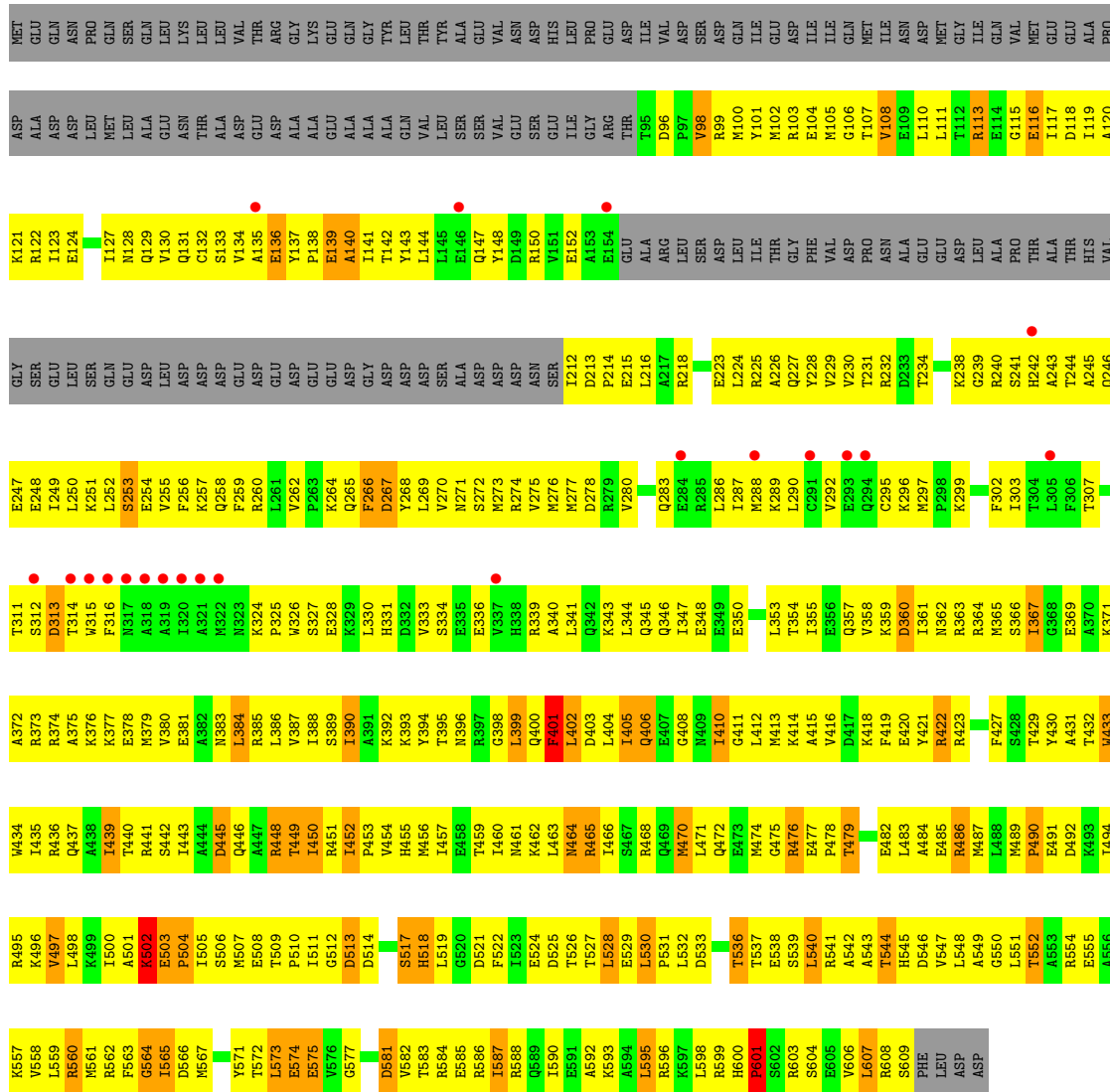
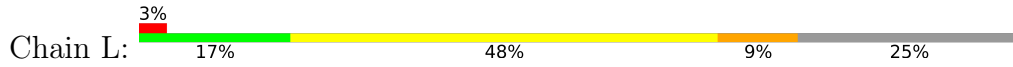
MET	LYS	ASP	LEU	LEU	PHE	LEU	LYS	LYS	ALA	GLN	THR	LYS	THR	GLU	E16	F17	D18	A19	<b>I20</b>	K21	I22	A23	A24	L24	A25	S26	P27	D28	M29	I30	R31	S32	W33	S34	F35	G36	E37	<b>V38</b>	K39	K40	P41	E42	T43	I44	M45	<b>Y46</b>	R47	T48	F49	K50	P51	E52	R53	D54	G55	L56	F57	C58	A59	R60			
I61	F62	G63	L64	D67	V68	E69	C70	L71	C72	G73	K74	Y75	K76	H80	R81	G82	V83	I84	E85	E86	K87	C88	G89	V90	M91	V92	R93	T93	Q94	T95	A96	V97	R98	R99	E100	R101	M102	G103	H104	I105	E106	L107	A108	S109	P110	T111	F112	G113	I114	M115	F116	L117	K118	M119	S119	<b>L120</b>	P121	S122	L123				
I124	G125	L126	L127	L128	D129	M130	<b>P131</b>	L132	R133	D134	I135	L136	R137	V138	L139	Y140	F141	E142	S143	Y144	R145	V146	I147	E148	G149	G150	M151	T152	M153	T154	E155	R156	Q157	Q158	K159	L160	L161	Q164	Y165	L166	D167	A168	<b>L169</b>	E170	E171	F172	G173	D174	E175	F176	D177	A178	L179	V241	M180	L242	G181	A182	E183	L244	P246		
I185	<b>Q186</b>	L188	R189	K190	S191	M192	D193	L194	E195	F196	A197	C198	L201	E202	R203	E204	N205	N206	R207	T208	E209	I210	S210	E211	T212	R213	R214	K215	K216	L217	R220	L221	K222	G223	L224	L225	L226	E227	A228	D229	F227	V228	I229	O229	S230	<b>G231</b>	N232	K233	P234	E235	R236	L237	N238	L239	Q300	E301	A302	L303	V304	A305	L306	L307	D308
P247	<b>D248</b>	L249	R250	<b>P251</b>	L252	V253	D256	R259	R260	A261	T262	S263	L264	L265	<b>N266</b>	D267	L268	D269	R270	R271	V272	<b>L273</b>	N274	R275	<b>N276</b>	R277	R278	R279	L279	K280	R281	L282	L283	<b>D284</b>	L285	<b>A286</b>	A287	P288	D289	I290	L291	V292	R293	N294	E295	K296	<b>R297</b>	N298	L299	Q300	E301	A302	L303	V304	A305	L306	L307	D308					
N309	<b>G310</b>	R311	R312	G313	G314	<b>A315</b>	L316	T317	G318	<b>S319</b>	N320	K321	R322	P323	L324	K325	S326	L327	A328	D329	N330	L331	<b>K332</b>	<b>G333</b>	<b>K334</b>	Q335	G336	<b>R337</b>	F338	R339	Q340	N341	L342	L343	G344	K345	R346	V347	D348	Y349	S350	G351	R352	S353	V354	L355	T356	V357	G358	P359	<b>Y360</b>	L361	R362	L363	H364	Q365	Q366	G367	<b>L368</b>				







### ● Molecule 5: RNA polymerase sigma factor RpoD





## 4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, $\alpha$ , $\beta$ , $\gamma$	188.52Å 205.18Å 310.14Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	29.95 – 3.84 44.64 – 3.84	Depositor EDS
% Data completeness (in resolution range)	92.4 (29.95-3.84) 79.3 (44.64-3.84)	Depositor EDS
$R_{merge}$	(Not available)	Depositor
$R_{sym}$	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ <sup>1</sup>	1.08 (at 3.88Å)	Xtrriage
Refinement program	PHENIX (phenix.refine: 1.9_1692)	Depositor
R, $R_{free}$	0.236 , 0.300 0.241 , 0.304	Depositor DCC
$R_{free}$ test set	1859 reflections (1.75%)	wwPDB-VP
Wilson B-factor (Å <sup>2</sup> )	136.1	Xtrriage
Anisotropy	0.197	Xtrriage
Bulk solvent $k_{sol}$ (e/Å <sup>3</sup> ), $B_{sol}$ (Å <sup>2</sup> )	0.27 , 117.7	EDS
L-test for twinning <sup>2</sup>	$\langle  L  \rangle = 0.47$ , $\langle L^2 \rangle = 0.30$	Xtrriage
Estimated twinning fraction	No twinning to report.	Xtrriage
$F_o, F_c$ correlation	0.93	EDS
Total number of atoms	55388	wwPDB-VP
Average B, all atoms (Å <sup>2</sup> )	170.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 2.12% 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: 4C4, MG, ZN

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# $ Z  > 5$	RMSZ	# $ Z  > 5$
1	A	0.75	0/1801	1.11	5/2440 (0.2%)
1	B	0.52	0/2265	0.90	3/3066 (0.1%)
1	G	0.49	0/1777	0.88	0/2408
1	H	0.49	0/1681	0.93	4/2278 (0.2%)
2	C	0.79	4/10733 (0.0%)	1.13	39/14482 (0.3%)
2	I	0.63	0/10721	0.98	23/14468 (0.2%)
3	D	0.77	3/9202 (0.0%)	1.15	45/12424 (0.4%)
3	J	0.62	1/9161 (0.0%)	1.02	17/12366 (0.1%)
4	E	0.67	0/693	1.01	0/935
4	K	0.36	0/629	0.72	0/847
5	F	0.57	0/3777	0.93	6/5076 (0.1%)
5	L	0.48	0/3689	0.83	4/4969 (0.1%)
All	All	0.67	8/56129 (0.0%)	1.03	146/75759 (0.2%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
1	B	0	1
2	C	0	3
2	I	0	3
3	D	0	5
3	J	0	2
All	All	0	14

All (8) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	D	377	PHE	CE1-CZ	6.64	1.50	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	C	1276	TRP	CB-CG	-6.57	1.38	1.50
2	C	1270	PHE	CE1-CZ	6.17	1.49	1.37
3	D	1319	PHE	CE2-CZ	6.01	1.48	1.37
3	J	686	TRP	CB-CG	-5.50	1.40	1.50
2	C	5	TYR	CD1-CE1	-5.37	1.31	1.39
2	C	997	TRP	CB-CG	-5.30	1.40	1.50
3	D	409	TRP	CB-CG	-5.03	1.41	1.50

All (146) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	L	540	LEU	CA-CB-CG	-9.96	92.38	115.30
2	C	32	LEU	CA-CB-CG	-9.67	93.07	115.30
2	I	575	LEU	CA-CB-CG	-9.22	94.10	115.30
2	C	1161	LEU	CA-CB-CG	-9.16	94.23	115.30
3	D	788	LEU	CA-CB-CG	-9.10	94.38	115.30
2	C	571	LEU	CA-CB-CG	-9.02	94.55	115.30
2	I	184	LEU	CA-CB-CG	-8.77	95.13	115.30
2	I	210	LEU	CA-CB-CG	-8.74	95.19	115.30
1	A	48	LEU	CA-CB-CG	-8.42	95.94	115.30
2	C	112	GLY	N-CA-C	-8.32	92.29	113.10
5	F	483	LEU	CA-CB-CG	-8.18	96.49	115.30
2	C	27	LEU	CA-CB-CG	-8.08	96.72	115.30
1	H	29	GLU	C-N-CD	-7.83	103.36	120.60
2	C	667	LEU	CA-CB-CG	-7.80	97.36	115.30
2	C	575	LEU	CA-CB-CG	-7.70	97.59	115.30
3	J	283	LEU	CA-CB-CG	-7.61	97.81	115.30
3	J	508	LEU	CA-CB-CG	-7.59	97.84	115.30
2	C	1235	LEU	CA-CB-CG	-7.58	97.87	115.30
2	I	322	LEU	CA-CB-CG	-7.51	98.02	115.30
3	D	387	LEU	CA-CB-CG	-7.48	98.09	115.30
3	D	441	LEU	CA-CB-CG	-7.48	98.11	115.30
2	I	27	LEU	CA-CB-CG	-7.44	98.19	115.30
2	C	468	LEU	CA-CB-CG	-7.41	98.27	115.30
3	D	249	LEU	CB-CG-CD1	-7.37	98.47	111.00
2	I	1259	LEU	CA-CB-CG	-7.36	98.37	115.30
3	D	541	LEU	CA-CB-CG	-7.29	98.53	115.30
5	F	540	LEU	CA-CB-CG	-7.28	98.56	115.30
3	D	249	LEU	CA-CB-CG	7.13	131.69	115.30
3	D	223	LEU	CA-CB-CG	-7.04	99.10	115.30
3	J	188	LEU	CA-CB-CG	-7.03	99.13	115.30
3	D	358	GLY	N-CA-C	-6.99	95.62	113.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	C	1043	ALA	C-N-CD	6.98	143.06	128.40
2	C	221	LEU	CA-CB-CG	6.96	131.32	115.30
3	D	344	GLY	N-CA-C	-6.90	95.84	113.10
2	C	960	LEU	CA-CB-CG	-6.89	99.45	115.30
2	C	322	LEU	CA-CB-CG	-6.89	99.45	115.30
2	C	902	LEU	CA-CB-CG	-6.84	99.57	115.30
5	F	551	LEU	CA-CB-CG	-6.78	99.70	115.30
2	C	946	LEU	CA-CB-CG	-6.76	99.75	115.30
3	J	783	LEU	CA-CB-CG	-6.75	99.77	115.30
3	J	115	TRP	CA-CB-CG	-6.68	101.01	113.70
3	J	351	GLY	N-CA-C	-6.61	96.57	113.10
2	C	699	LEU	CA-CB-CG	-6.56	100.21	115.30
3	J	610	ARG	NE-CZ-NH2	-6.56	117.02	120.30
3	J	610	ARG	NE-CZ-NH1	6.55	123.58	120.30
2	C	48	GLY	N-CA-C	-6.50	96.86	113.10
3	D	285	LEU	CA-CB-CG	-6.46	100.45	115.30
3	D	189	LEU	CA-CB-CG	-6.39	100.59	115.30
2	C	533	LEU	CA-CB-CG	-6.37	100.66	115.30
3	J	376	LEU	CA-CB-CG	-6.31	100.80	115.30
3	D	217	LEU	CA-CB-CG	6.28	129.74	115.30
2	C	544	GLY	N-CA-C	-6.24	97.50	113.10
2	I	1291	LEU	CA-CB-CG	6.24	129.64	115.30
3	D	474	LEU	CA-CB-CG	-6.23	100.98	115.30
3	D	444	GLY	N-CA-C	-6.21	97.57	113.10
2	I	363	LEU	CA-CB-CG	-6.21	101.02	115.30
2	C	246	LEU	CA-CB-CG	-6.20	101.05	115.30
3	D	1175	LEU	CA-CB-CG	-6.14	101.18	115.30
2	I	468	LEU	CA-CB-CG	-6.14	101.18	115.30
2	C	1326	LEU	CB-CG-CD2	-6.12	100.59	111.00
3	D	1144	LEU	CA-CB-CG	-6.07	101.33	115.30
3	D	24	LEU	CA-CB-CG	-6.05	101.39	115.30
3	D	1314	LEU	CA-CB-CG	-6.04	101.41	115.30
2	C	1021	LEU	CA-CB-CG	-6.02	101.46	115.30
3	D	368	LEU	CA-CB-CG	6.01	129.13	115.30
3	D	239	LEU	CA-CB-CG	-5.98	101.56	115.30
2	I	416	GLY	N-CA-C	-5.97	98.17	113.10
2	C	1176	LEU	CA-CB-CG	-5.97	101.57	115.30
2	C	967	LEU	CA-CB-CG	-5.97	101.57	115.30
1	H	29	GLU	C-N-CA	5.95	146.99	122.00
3	D	508	LEU	CA-CB-CG	-5.94	101.64	115.30
3	D	605	LEU	CA-CB-CG	-5.92	101.68	115.30
2	C	1259	LEU	CA-CB-CG	-5.91	101.70	115.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	D	107	LEU	CA-CB-CG	-5.89	101.74	115.30
2	I	694	ARG	NE-CZ-NH2	-5.88	117.36	120.30
2	C	223	LEU	CA-CB-CG	-5.82	101.90	115.30
1	A	224	LEU	CB-CG-CD2	-5.75	101.22	111.00
2	C	28	LEU	CB-CG-CD2	-5.73	101.26	111.00
5	L	384	LEU	CA-CB-CG	-5.73	102.13	115.30
3	J	857	LEU	CA-CB-CG	5.67	128.34	115.30
2	I	667	LEU	CA-CB-CG	-5.65	102.30	115.30
2	C	1316	GLU	C-N-CD	-5.64	108.18	120.60
2	I	699	LEU	CA-CB-CG	-5.64	102.32	115.30
3	J	449	LEU	CA-CB-CG	-5.64	102.32	115.30
2	C	451	ARG	N-CA-C	-5.63	95.80	111.00
3	D	472	LEU	CA-CB-CG	-5.61	102.39	115.30
2	I	197	ARG	NE-CZ-NH2	-5.61	117.50	120.30
3	D	426	ALA	C-N-CD	5.60	140.17	128.40
3	D	120	LEU	C-N-CD	5.60	140.16	128.40
1	H	228	LEU	CA-CB-CG	-5.59	102.45	115.30
2	I	194	LEU	CA-CB-CG	-5.58	102.46	115.30
3	D	449	LEU	CA-CB-CG	-5.58	102.46	115.30
2	C	1216	ARG	NE-CZ-NH1	-5.58	117.51	120.30
3	D	796	LEU	CA-CB-CG	-5.56	102.52	115.30
5	F	500	ILE	CG1-CB-CG2	-5.55	99.19	111.40
2	C	865	LEU	CB-CG-CD2	-5.54	101.58	111.00
2	I	1267	GLY	N-CA-C	-5.50	99.35	113.10
3	D	1138	LEU	CA-CB-CG	-5.50	102.66	115.30
1	B	28	LEU	CA-CB-CG	-5.48	102.69	115.30
3	D	115	TRP	CA-CB-CG	-5.43	103.38	113.70
3	D	432	LEU	CB-CG-CD1	-5.43	101.77	111.00
2	I	946	LEU	CA-CB-CG	-5.41	102.85	115.30
3	D	166	LEU	CA-CB-CG	-5.41	102.85	115.30
2	C	1002	LEU	CA-CB-CG	-5.41	102.86	115.30
1	B	83	LEU	CA-CB-CG	-5.40	102.88	115.30
1	A	133	LEU	CA-CB-CG	-5.39	102.91	115.30
3	D	743	MET	CB-CG-SD	-5.38	96.25	112.40
1	B	65	LEU	CA-CB-CG	5.38	127.68	115.30
3	D	120	LEU	CA-CB-CG	-5.36	102.98	115.30
2	I	566	GLY	N-CA-C	5.36	126.50	113.10
5	L	433	TRP	CA-CB-CG	-5.36	103.52	113.70
2	I	671	LEU	CA-CB-CG	-5.34	103.01	115.30
3	D	1211	SER	N-CA-C	-5.34	96.59	111.00
3	D	472	LEU	CB-CG-CD2	-5.33	101.94	111.00
5	F	548	LEU	CA-CB-CG	-5.30	103.10	115.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	D	279	LEU	CA-CB-CG	-5.30	103.11	115.30
3	J	53	ARG	N-CA-C	-5.30	96.70	111.00
3	J	169	LEU	CA-CB-CG	-5.28	103.15	115.30
2	C	1150	ASP	CB-CG-OD2	-5.26	113.57	118.30
3	D	307	LEU	CA-CB-CG	-5.25	103.22	115.30
2	C	1295	SER	N-CA-C	5.24	125.15	111.00
3	D	407	VAL	CB-CA-C	-5.23	101.47	111.40
2	I	644	LEU	CA-CB-CG	5.22	127.30	115.30
2	I	565	GLU	CA-CB-CG	5.21	124.87	113.40
1	A	140	ILE	CB-CA-C	-5.17	101.26	111.60
3	D	333	GLY	N-CA-C	-5.16	100.19	113.10
2	C	27	LEU	CB-CG-CD2	-5.15	102.24	111.00
3	D	422	LEU	CB-CG-CD2	-5.15	102.25	111.00
5	L	503	GLU	C-N-CD	-5.14	109.29	120.60
2	C	1001	GLY	N-CA-C	-5.12	100.29	113.10
3	J	368	LEU	CA-CB-CG	5.12	127.08	115.30
2	C	464	PHE	CB-CG-CD1	-5.12	117.22	120.80
2	C	490	GLN	N-CA-C	-5.11	97.19	111.00
3	D	336	GLY	N-CA-C	5.11	125.88	113.10
2	I	47	TYR	CA-CB-CG	5.10	123.10	113.40
3	J	103	GLY	N-CA-C	-5.09	100.38	113.10
1	H	43	LEU	CA-CB-CG	-5.08	103.61	115.30
1	A	201	LEU	CA-CB-CG	-5.08	103.62	115.30
2	I	171	LEU	CA-CB-CG	5.08	126.98	115.30
3	D	224	LEU	CA-CB-CG	-5.07	103.63	115.30
3	D	558	ASP	CB-CG-OD2	5.05	122.85	118.30
5	F	532	LEU	CA-CB-CG	5.04	126.90	115.30
2	C	1042	LEU	CA-CB-CG	-5.03	103.74	115.30
3	J	189	LEU	CA-CB-CG	-5.02	103.76	115.30
3	D	478	LEU	CA-CB-CG	-5.01	103.77	115.30
3	J	194	LEU	CB-CG-CD2	-5.00	102.49	111.00

There are no chirality outliers.

All (14) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	B	196	THR	Peptide
2	C	236	LYS	Peptide
2	C	600	THR	Peptide
2	C	658	GLN	Peptide
3	D	111	THR	Peptide
3	D	1184	ASP	Peptide

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Mol	Chain	Res	Type	Group
3	D	14	THR	Peptide
3	D	250	ARG	Peptide
3	D	902	ASP	Peptide
2	I	109	ALA	Peptide
2	I	236	LYS	Peptide
2	I	564	PRO	Peptide
3	J	250	ARG	Peptide
3	J	901	ARG	Peptide

## 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	1779	0	1806	347	0
1	B	2239	0	2300	482	0
1	G	1755	0	1773	325	0
1	H	1662	0	1687	285	0
2	C	10564	0	10571	1842	1
2	I	10552	0	10548	1775	0
3	D	9062	0	9227	1784	1
3	J	9021	0	9213	1774	1
4	E	691	0	695	88	0
4	K	627	0	634	104	0
5	F	3726	0	3798	623	1
5	L	3640	0	3650	576	0
6	D	1	0	0	0	0
6	J	1	0	0	0	0
7	D	2	0	0	0	0
7	J	2	0	0	0	0
8	D	31	33	32	17	0
All	All	55355	33	55934	9319	2

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 84.

All (9319) 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)
1:B:88:LEU:HD12	1:B:89:ALA:H	1.07	1.18
2:I:280:ASP:HB3	2:I:282:VAL:HG23	1.24	1.18
3:D:850:LYS:HG2	3:D:857:LEU:HD11	1.24	1.18
2:C:798:GLN:HB2	2:C:828:PHE:HE1	1.04	1.17
3:D:1372:ARG:HH21	3:J:854:ALA:HB3	1.07	1.15
3:J:120:LEU:HB3	3:J:121:PRO:HD3	1.25	1.15
3:J:706:VAL:HG12	3:J:715:LYS:HB3	1.28	1.15
2:C:119:GLU:HB2	2:C:489:PRO:HD2	1.23	1.15
2:I:1131:MET:HE2	2:I:1141:LEU:HD12	1.27	1.15
1:H:42:ALA:HA	1:H:45:ARG:HG3	1.22	1.15
3:D:857:LEU:HD23	3:D:871:LEU:HD21	1.21	1.14
3:J:520:ALA:HB1	3:J:543:SER:HB3	1.27	1.13
1:A:14:VAL:HG22	1:A:15:ASP:H	1.10	1.13
3:J:265:LEU:HD11	3:J:330:MET:HE1	1.26	1.13
2:C:646:SER:HB3	2:C:649:GLN:HG3	1.27	1.12
1:B:112:ALA:HB3	1:B:126:PRO:HA	1.21	1.12
2:C:1160:ASP:HB2	2:C:1161:LEU:HA	1.32	1.12
1:G:38:THR:HA	1:H:45:ARG:HD3	1.25	1.12
1:G:224:LEU:HD21	1:H:224:LEU:HD21	1.22	1.12
1:H:153:VAL:HB	1:H:175:ALA:HB3	1.12	1.12
1:B:102:LEU:HD21	1:B:115:ILE:HA	1.28	1.11
2:C:1062:PRO:HA	2:C:1076:ILE:HD11	1.31	1.11
2:C:607:SER:HB3	2:C:610:GLU:HG3	1.31	1.11
2:I:344:GLY:HA3	2:I:346:TYR:CE1	1.86	1.11
2:I:59:ILE:HG21	2:I:475:VAL:HG11	1.30	1.11
1:B:35:PHE:HA	1:B:38:THR:HG22	1.19	1.11
1:B:183:ILE:HG22	1:B:205:MET:HG3	1.24	1.10
2:C:594:VAL:HG22	2:C:599:VAL:HA	1.27	1.10
3:D:614:LEU:HD23	4:E:7:GLN:HB2	1.25	1.10
5:F:279:ARG:HH21	5:F:347:ILE:HG12	1.12	1.10
3:J:510:LEU:HD23	3:J:601:ILE:HD11	1.10	1.10
3:J:268:LEU:HD11	3:J:324:LEU:HD13	1.33	1.09
1:B:284:ARG:HA	1:B:284:ARG:NH1	1.65	1.09
2:C:839:VAL:HG12	2:C:1049:ILE:HG12	1.34	1.09
2:I:1160:ASP:HB2	2:I:1162:SER:H	1.12	1.09
1:A:44:ARG:HB2	1:A:183:ILE:HG21	1.13	1.09
1:B:81:ILE:HG22	1:B:85:LEU:HD21	1.31	1.09
1:B:153:VAL:HG13	1:B:157:THR:HG21	1.28	1.09
5:F:572:THR:HG23	5:F:575:GLU:HB3	1.31	1.08
2:I:700:VAL:HG11	2:I:1114:GLU:HG3	1.31	1.08
2:I:884:VAL:HG11	2:I:1050:VAL:HG21	1.35	1.08
2:C:59:ILE:HG21	2:C:475:VAL:HG11	1.36	1.08

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1144:PHE:HE1	2:C:1201:LEU:HD11	1.17	1.08
5:L:540:LEU:HD13	5:L:607:LEU:HG	1.34	1.08
2:I:810:TYR:CE2	3:J:359:PRO:HD2	1.90	1.07
3:J:647:PRO:HG3	3:J:697:MET:HB3	1.10	1.07
5:F:234:THR:HB	5:F:245:ALA:HB1	1.30	1.07
5:L:406:GLN:HE21	5:L:406:GLN:HA	1.17	1.07
3:J:573:THR:HG23	3:J:576:ARG:HG3	1.33	1.07
3:D:850:LYS:HB3	3:D:851:PRO:HD2	1.35	1.06
1:G:45:ARG:CG	1:H:38:THR:HB	1.84	1.06
3:D:390:LEU:CD2	3:D:407:VAL:HG11	1.85	1.06
2:I:1151:LEU:HG	2:I:1198:LEU:HD23	1.37	1.06
5:F:562:ARG:HG2	5:F:573:LEU:HD12	1.29	1.06
2:C:1160:ASP:CB	2:C:1161:LEU:HA	1.85	1.06
3:J:339:ARG:HB3	3:J:340:GLN:CA	1.85	1.06
3:D:259:ARG:HG2	3:D:260:PHE:H	1.21	1.05
3:D:647:PRO:HG3	3:D:697:MET:HB3	1.32	1.05
5:F:139:GLU:HA	5:F:142:THR:HG22	1.09	1.05
3:J:336:GLY:HA2	3:J:1327:GLU:H	1.19	1.05
2:C:1196:LYS:HD2	2:C:1206:THR:HG23	1.33	1.05
1:A:81:ILE:HA	1:A:84:ASN:HD22	1.17	1.05
2:C:1142:ARG:HH12	2:C:1165:SER:HA	1.21	1.05
1:B:33:ARG:HH11	1:B:33:ARG:HG2	1.22	1.05
2:C:145:ILE:HG22	2:C:456:VAL:HG22	1.34	1.05
2:C:1062:PRO:CA	2:C:1076:ILE:HD11	1.87	1.05
2:I:798:GLN:HB2	2:I:828:PHE:HE1	1.13	1.04
2:C:1272:GLU:HB2	3:D:342:LEU:HD12	1.37	1.04
2:I:338:THR:HG21	2:I:345:PRO:HB3	1.09	1.04
3:J:325:LYS:HE3	3:J:330:MET:HG2	1.35	1.04
3:D:268:LEU:HD22	3:D:306:LEU:HA	1.40	1.03
2:I:1211:ARG:HB2	2:I:1220:GLN:HE21	1.22	1.03
2:I:1284:ALA:HB3	3:J:1361:THR:HB	1.35	1.03
2:I:1131:MET:HB3	2:I:1141:LEU:HD11	1.37	1.03
2:C:496:LYS:HZ2	2:C:497:PRO:HG3	1.22	1.03
3:J:495:ASN:O	3:J:497:GLU:N	1.91	1.03
3:J:1358:PRO:HB3	3:J:1366:HIS:CD2	1.92	1.03
5:L:412:LEU:HB2	5:L:435:ILE:HD11	1.38	1.03
1:H:118:ASP:HB2	1:H:121:VAL:HB	1.06	1.03
2:C:302:ILE:HG22	2:C:309:LEU:HA	1.35	1.03
3:D:252:LEU:HD23	3:D:262:THR:HB	1.34	1.03
3:J:814:CYS:HB2	3:J:889:ASP:HB3	1.39	1.03
2:C:59:ILE:HD12	2:C:475:VAL:HG21	1.38	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:423:LEU:HD12	3:D:468:VAL:HG12	1.41	1.02
5:L:108:VAL:HA	5:L:385:ARG:HH12	1.24	1.02
2:C:483:ASP:HB2	2:C:486:THR:HG21	1.08	1.02
3:J:80:HIS:HB3	3:J:83:VAL:HG11	1.40	1.02
3:J:746:LEU:HG	3:J:758:PRO:HB3	1.37	1.02
2:C:1144:PHE:CE1	2:C:1201:LEU:HD11	1.94	1.02
2:I:338:THR:CG2	2:I:345:PRO:HB3	1.90	1.02
3:J:520:ALA:HB3	3:J:546:ALA:HB2	1.39	1.02
2:C:1284:ALA:CB	3:D:1361:THR:HB	1.90	1.02
5:L:530:LEU:H	5:L:530:LEU:HD12	1.20	1.02
2:C:817:LEU:CD1	2:C:1097:VAL:HB	1.90	1.01
3:D:288:PRO:HG3	5:F:380:VAL:HG11	1.38	1.01
3:D:357:VAL:HG22	3:D:461:PHE:HE1	1.21	1.01
3:D:1215:GLU:HG3	3:D:1220:ILE:HD11	1.39	1.01
5:F:495:ARG:HA	5:F:498:LEU:HD23	1.36	1.01
1:A:54:CYS:HB3	1:A:148:ARG:HA	1.41	1.01
1:B:310:ARG:HA	1:B:310:ARG:HE	1.25	1.01
3:D:836:ARG:HE	3:D:869:CYS:HB3	1.25	1.01
3:J:647:PRO:HG3	3:J:697:MET:CB	1.89	1.01
3:D:706:VAL:HG12	3:D:715:LYS:HB3	1.41	1.01
1:B:35:PHE:HA	1:B:38:THR:CG2	1.91	1.00
2:C:798:GLN:HB2	2:C:828:PHE:CE1	1.96	1.00
3:J:1280:VAL:HG11	3:J:1304:ARG:HH21	1.19	1.00
2:C:810:TYR:HE1	2:C:1078:LYS:HD2	1.26	1.00
3:J:242:LEU:HD23	3:J:243:PRO:HD2	1.44	1.00
1:A:162:GLU:HG3	1:A:165:GLU:HG2	1.38	1.00
2:I:176:ILE:HB	2:I:184:LEU:HB3	1.43	1.00
3:J:42:GLU:HG2	5:L:451:ARG:NE	1.75	1.00
1:A:61:ILE:HG22	1:A:64:VAL:CG2	1.91	1.00
1:B:29:GLU:HB3	1:B:200:LYS:HB2	1.44	1.00
2:I:174:ALA:HB2	2:I:432:LEU:HD13	1.41	0.99
1:A:207:THR:HG22	1:A:209:GLY:H	1.27	0.99
2:C:1024:GLU:HA	2:C:1027:LYS:HD3	1.42	0.99
1:A:50:SER:HB3	1:B:8:PHE:HZ	1.25	0.99
2:I:646:SER:HB3	2:I:649:GLN:HG3	1.43	0.99
3:D:872:LEU:HD22	3:D:877:VAL:HG11	1.45	0.99
3:D:357:VAL:HG22	3:D:461:PHE:CE1	1.98	0.99
3:J:48:THR:O	3:J:50:LYS:N	1.95	0.99
2:C:1305:TYR:HE1	3:D:379:PRO:CG	1.74	0.98
2:C:985:GLU:O	2:C:989:LEU:N	1.95	0.98
3:D:519:ASN:HB2	3:D:709:ARG:HB2	1.44	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:26:TYR:HE2	2:I:28:LEU:HB2	1.26	0.98
2:C:1278:LEU:HD12	2:C:1287:LEU:HB2	1.45	0.98
2:I:993:PRO:HG2	2:I:996:ARG:HB2	1.46	0.98
3:J:423:LEU:HD12	3:J:468:VAL:HG12	1.43	0.98
2:C:799:ASN:HB3	2:C:1231:TYR:HD1	1.25	0.98
2:C:817:LEU:HD23	2:C:1080:ASN:HD22	1.26	0.98
2:I:176:ILE:HD11	2:I:428:VAL:HG21	1.45	0.98
3:J:339:ARG:HB3	3:J:340:GLN:HA	1.45	0.98
1:B:41:ASN:OD1	1:B:44:ARG:NH1	1.96	0.98
3:J:339:ARG:HB3	3:J:340:GLN:CB	1.94	0.98
2:C:818:VAL:HG23	2:C:1096:ILE:HG23	1.43	0.98
3:D:888:CYS:SG	3:D:890:THR:HG22	2.04	0.98
3:J:268:LEU:HD22	3:J:306:LEU:HD23	1.44	0.98
2:C:882:ILE:HD12	2:C:882:ILE:H	1.29	0.98
3:D:1280:VAL:HG21	3:D:1304:ARG:HE	1.29	0.97
5:F:540:LEU:HD13	5:F:607:LEU:HD22	1.46	0.97
3:J:510:LEU:CD2	3:J:601:ILE:HD11	1.94	0.97
3:D:510:LEU:HD23	3:D:601:ILE:HD11	1.42	0.97
1:G:45:ARG:HG2	1:H:38:THR:CB	1.94	0.97
1:G:45:ARG:HG2	1:H:38:THR:HB	0.98	0.97
2:I:944:ARG:HE	2:I:948:ILE:HD11	1.29	0.97
3:J:615:LYS:HZ2	4:K:7:GLN:HG2	1.24	0.97
3:D:80:HIS:HB3	3:D:83:VAL:HG11	1.47	0.97
3:J:865:HIS:CE1	3:J:867:GLN:HB2	2.00	0.97
2:C:119:GLU:HG3	2:C:488:MET:HB3	1.45	0.97
3:J:210:SER:HB2	3:J:213:LYS:HB2	1.46	0.97
2:C:883:LEU:HB2	2:C:918:LEU:HD11	1.44	0.97
3:J:72:CYS:N	3:J:88:CYS:SG	2.36	0.97
2:C:960:LEU:HD13	2:C:963:GLU:HG3	1.45	0.96
5:F:100:MET:O	5:F:104:GLU:HB2	1.65	0.96
3:J:1316:THR:HG22	3:J:1318:SER:H	1.29	0.96
2:C:122:VAL:HG21	2:C:493:ILE:HG21	1.45	0.96
3:D:888:CYS:HA	3:D:898:CYS:SG	2.05	0.96
3:J:872:LEU:HD22	3:J:877:VAL:HG11	1.47	0.96
2:C:590:PRO:HG3	2:C:605:TYR:CZ	2.00	0.96
5:L:240:ARG:HB3	5:L:244:THR:HB	1.48	0.96
1:B:284:ARG:HH11	1:B:284:ARG:CA	1.77	0.96
3:D:694:SER:HB2	3:D:738:ARG:HD3	1.48	0.96
4:K:49:ILE:HA	4:K:52:ARG:HD3	1.47	0.96
3:D:1159:ILE:HG22	3:D:1177:ILE:HD12	1.42	0.96
2:I:548:ARG:NH2	2:I:568:ASN:HA	1.80	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:885:VAL:O	3:J:1258:ARG:NH1	1.98	0.96
3:D:865:HIS:CE1	3:D:867:GLN:HB2	1.99	0.96
2:I:1253:LEU:HA	5:L:525:ASP:HB2	1.48	0.96
2:C:483:ASP:HB2	2:C:486:THR:CG2	1.96	0.96
5:F:139:GLU:HA	5:F:142:THR:CG2	1.94	0.96
3:D:113:HIS:CE1	3:D:115:TRP:HB2	2.01	0.96
2:I:516:ASP:O	2:I:522:SER:OG	1.82	0.95
3:D:482:ALA:O	3:D:488:ASN:ND2	2.00	0.95
1:B:228:LEU:O	1:B:230:ALA:N	1.99	0.95
1:B:284:ARG:HA	1:B:284:ARG:HH11	0.81	0.95
2:I:407:ARG:HA	2:I:407:ARG:NE	1.77	0.95
2:C:756:TYR:HD1	2:C:756:TYR:H	1.12	0.95
3:D:805:GLN:O	3:D:807:LEU:N	1.99	0.95
5:F:423:ARG:HB3	5:F:425:TYR:CD1	2.02	0.95
4:K:39:VAL:HG22	4:K:40:PRO:HD2	1.49	0.95
2:C:1284:ALA:HB2	3:D:1361:THR:HB	1.46	0.95
3:D:850:LYS:CG	3:D:857:LEU:HD11	1.97	0.95
1:B:107:ILE:HG12	1:B:135:ASP:HA	1.45	0.95
2:C:722:GLY:HA2	2:C:737:ASN:OD1	1.67	0.95
5:F:562:ARG:HD3	5:F:573:LEU:HG	1.48	0.95
2:C:1217:THR:OG1	2:C:1219:GLU:HG2	1.65	0.95
3:D:1372:ARG:NH2	3:J:854:ALA:HB3	1.81	0.95
1:G:189:ALA:HA	1:G:199:ASP:HA	1.46	0.95
3:D:252:LEU:CD2	3:D:262:THR:HB	1.97	0.94
2:I:26:TYR:CE2	2:I:28:LEU:HB2	2.01	0.94
1:B:182:ARG:NH1	3:D:581:MET:SD	2.40	0.94
3:D:120:LEU:HB3	3:D:121:PRO:HD3	1.47	0.94
3:D:867:GLN:HE21	3:D:867:GLN:H	1.01	0.94
2:I:1142:ARG:HH12	2:I:1165:SER:HA	1.30	0.94
5:L:448:ARG:HD3	5:L:450:ILE:HG13	1.49	0.94
3:J:369:PRO:HB3	3:J:444:GLY:O	1.68	0.94
1:A:187:VAL:HG12	1:A:201:LEU:HD13	1.48	0.94
3:D:810:THR:CG2	3:D:893:GLY:HA3	1.98	0.94
2:I:452:ARG:HH11	2:I:452:ARG:HG3	1.30	0.94
2:C:1293:VAL:HG11	2:C:1304:MET:HB2	1.50	0.94
3:D:1167:LYS:HZ3	3:D:1170:LYS:HB2	1.30	0.94
2:I:1101:LEU:O	3:J:731:ARG:HD3	1.66	0.94
3:J:426:ALA:HB3	3:J:427:PRO:HD3	1.48	0.94
3:J:507:VAL:HG21	3:J:598:LYS:HB2	1.49	0.94
3:D:205:LEU:HA	3:D:217:LEU:HD21	1.50	0.94
2:I:810:TYR:HE2	3:J:359:PRO:HD2	1.22	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:394:TYR:CD2	5:F:439:ILE:HD11	2.03	0.94
3:D:156:ARG:HH12	3:D:157:GLN:HE21	0.98	0.93
2:I:98:VAL:HG21	2:I:124:MET:CE	1.97	0.93
2:C:959:ASP:O	2:C:963:GLU:HG2	1.69	0.93
3:J:1239:ASP:O	3:J:1243:LEU:HB2	1.67	0.93
5:F:290:LEU:HB3	5:F:333:VAL:HG21	1.49	0.93
5:F:562:ARG:CZ	5:F:573:LEU:HB3	1.98	0.93
1:G:218:ARG:HD3	1:H:233:ASP:H	1.34	0.93
1:H:118:ASP:CB	1:H:121:VAL:HB	1.97	0.93
2:C:119:GLU:CB	2:C:489:PRO:HD2	1.99	0.93
3:J:647:PRO:CG	3:J:697:MET:HB3	1.98	0.93
5:L:132:CYS:SG	5:L:257:LYS:NZ	2.41	0.93
5:F:474:MET:O	5:F:476:ARG:N	2.02	0.93
3:D:520:ALA:HB3	3:D:546:ALA:HB2	1.51	0.93
2:C:810:TYR:CE1	2:C:1078:LYS:HD2	2.04	0.93
5:F:346:GLN:NE2	5:F:350:GLU:OE2	2.02	0.93
2:I:551:HIS:H	2:I:554:HIS:CD2	1.87	0.92
3:J:190:LYS:HD3	3:J:235:GLU:HG2	1.49	0.92
2:I:1160:ASP:HB2	2:I:1162:SER:N	1.82	0.92
2:I:1282:GLY:O	2:I:1284:ALA:N	2.01	0.92
2:C:557:ARG:HH21	2:C:608:ALA:HA	1.34	0.92
3:D:867:GLN:HE21	3:D:867:GLN:N	1.68	0.92
5:L:471:LEU:HD21	5:L:478:PRO:HD3	1.51	0.92
2:C:590:PRO:HB2	2:C:655:VAL:HG21	1.51	0.92
3:D:48:THR:O	3:D:50:LYS:N	2.02	0.92
1:G:224:LEU:HD21	1:H:224:LEU:CD2	1.98	0.92
2:I:208:ILE:HG23	2:I:362:ALA:HB1	1.51	0.92
3:J:788:LEU:HG	3:J:789:LYS:N	1.84	0.92
2:C:1326:LEU:HD21	8:D:2004:4C4:H15	1.52	0.92
1:B:76:GLU:OE2	1:B:132:HIS:N	2.03	0.92
3:D:506:VAL:HG23	3:D:628:GLY:HA3	1.51	0.92
2:I:746:ALA:HB2	2:I:974:ARG:HE	1.34	0.92
5:L:544:THR:O	5:L:547:VAL:N	2.03	0.92
3:J:385:LEU:HD21	3:J:411:ILE:HG13	1.50	0.92
2:C:551:HIS:H	2:C:554:HIS:CD2	1.87	0.91
1:H:118:ASP:HB2	1:H:121:VAL:CB	1.99	0.91
2:I:453:ILE:HD11	2:I:530:ILE:HD13	1.52	0.91
2:C:582:ASN:HB3	2:C:585:GLY:H	1.35	0.91
3:D:848:VAL:HG12	3:D:858:VAL:H	1.34	0.91
3:J:1280:VAL:HG11	3:J:1304:ARG:NH2	1.84	0.91
2:C:1268:GLN:NE2	3:D:352:ARG:HD3	1.84	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:936:ARG:NH2	2:I:1046:VAL:O	2.04	0.91
3:J:232:ASN:HA	3:J:236:TRP:HZ3	1.34	0.91
3:D:424:ASN:HB2	3:D:434:ILE:HG12	1.50	0.91
2:I:324:LYS:O	2:I:327:GLN:NE2	2.02	0.91
1:A:152:TYR:HE1	2:C:824:GLN:HA	1.33	0.91
2:C:243:PRO:HB2	2:C:278:GLU:CG	2.00	0.91
2:C:1342:GLU:HA	3:D:17:PHE:HA	1.52	0.91
3:D:97:VAL:HG11	3:D:101:ARG:CZ	2.01	0.91
2:C:90:VAL:HG12	2:C:91:THR:H	1.36	0.91
5:F:454:VAL:O	5:F:457:ILE:N	2.04	0.91
3:D:70:CYS:SG	3:D:73:GLY:N	2.43	0.91
3:D:260:PHE:HB2	5:F:504:PRO:CG	2.01	0.91
3:D:425:ARG:HG2	3:D:426:ALA:H	1.35	0.91
3:J:741:ALA:O	3:J:762:ASN:ND2	2.03	0.91
3:D:205:LEU:HD23	3:D:217:LEU:HG	1.49	0.91
3:D:1282:TYR:O	3:D:1285:VAL:HG22	1.71	0.91
5:F:240:ARG:HD3	5:F:244:THR:HB	1.53	0.91
1:B:9:LEU:CB	1:B:32:GLU:HG3	2.00	0.91
2:C:344:GLY:HA3	2:C:346:TYR:CE2	2.05	0.91
2:C:1136:GLN:O	2:C:1140:LYS:HG3	1.69	0.91
3:D:527:LEU:CD2	3:D:536:LEU:HD23	2.00	0.91
1:G:100:LEU:HD23	1:G:115:ILE:HG21	1.49	0.91
5:L:316:PHE:HZ	5:L:334:SER:HA	1.35	0.91
2:C:302:ILE:O	2:C:330:HIS:NE2	2.03	0.90
2:C:324:LYS:O	2:C:327:GLN:NE2	2.04	0.90
2:C:519:ASN:ND2	2:C:689:ALA:O	2.04	0.90
2:C:1297:ASP:OD1	2:C:1300:GLY:N	2.02	0.90
3:J:113:HIS:CE1	3:J:115:TRP:HB2	2.07	0.90
3:D:394:ILE:HD11	5:F:536:THR:HG22	1.53	0.90
1:A:152:TYR:HE2	1:A:154:PRO:HB3	1.36	0.90
3:J:826:ILE:HA	3:J:831:VAL:HA	1.53	0.90
1:A:100:LEU:HD23	1:A:115:ILE:HG21	1.53	0.90
3:D:842:ARG:HB3	3:D:882:VAL:HG11	1.54	0.90
1:G:12:ARG:H	1:G:30:PRO:HD2	1.35	0.90
2:C:901:LEU:HA	5:F:563:PHE:CE2	2.06	0.90
2:C:1280:ALA:HB3	3:D:431:ARG:HB3	1.53	0.90
3:D:79:LYS:HG3	3:D:80:HIS:ND1	1.87	0.90
3:D:849:LEU:H	3:D:849:LEU:HD22	1.35	0.90
3:J:220:ARG:O	3:J:224:LEU:N	2.05	0.90
2:C:414:ILE:HG13	2:C:415:GLU:HG2	1.50	0.90
2:C:148:GLN:NE2	2:C:533:LEU:O	2.04	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:514:THR:CB	3:D:596:LEU:HD23	2.01	0.90
2:I:944:ARG:HG3	2:I:948:ILE:HD12	1.53	0.90
3:J:810:THR:HG21	3:J:893:GLY:HA3	1.52	0.90
2:C:435:ILE:O	2:C:438:GLY:N	2.05	0.90
2:C:726:TYR:CE2	2:C:728:ASP:HB2	2.07	0.90
2:I:1192:GLU:HA	2:I:1195:ILE:HD12	1.53	0.90
3:J:842:ARG:HD3	3:J:882:VAL:HG11	1.51	0.90
2:C:927:THR:HG22	2:C:928:VAL:O	1.72	0.90
2:C:1255:THR:O	2:C:1257:GLN:N	2.04	0.90
3:D:245:LEU:HG	3:D:246:PRO:HD2	1.54	0.90
2:I:245:ARG:HG2	2:I:337:PHE:CE2	2.07	0.89
2:I:798:GLN:HB2	2:I:828:PHE:CE1	2.06	0.89
2:I:1260:GLY:HA3	2:I:1265:PHE:HA	1.54	0.89
3:J:1234:VAL:HA	3:J:1237:VAL:HG12	1.52	0.89
2:C:1191:LYS:HD3	2:C:1193:ALA:H	1.37	0.89
4:E:10:VAL:HG22	4:E:19:LEU:HD23	1.55	0.89
1:B:102:LEU:O	1:B:141:SER:HA	1.72	0.89
5:F:128:ASN:HA	5:F:131:GLN:HB2	1.52	0.89
2:I:519:ASN:HD21	2:I:796:LEU:HD23	1.35	0.89
3:D:362:ARG:H	3:D:365:GLN:HE21	1.16	0.89
3:D:762:ASN:ND2	3:D:765:GLU:OE2	2.05	0.89
2:I:1077:SER:HB3	3:J:357:VAL:HG23	1.54	0.89
3:J:366:CYS:HB3	3:J:437:PHE:CD1	2.06	0.89
5:L:540:LEU:CD1	5:L:607:LEU:HG	2.02	0.89
3:D:119:SER:OG	3:D:1333:THR:HG21	1.73	0.89
2:I:685:MET:HA	2:I:688:GLN:HE21	1.36	0.89
3:J:850:LYS:HB3	3:J:851:PRO:HD2	1.50	0.89
2:C:713:GLY:O	2:C:715:THR:N	2.04	0.89
3:D:1316:THR:HG22	3:D:1318:SER:H	1.34	0.89
2:I:1196:LYS:HD2	2:I:1206:THR:HG23	1.54	0.89
3:D:1167:LYS:NZ	3:D:1170:LYS:HB2	1.87	0.89
5:F:215:GLU:HA	5:F:218:ARG:HD3	1.51	0.89
2:I:146:VAL:HG12	2:I:529:ARG:HB3	1.52	0.89
3:J:425:ARG:HG2	3:J:426:ALA:H	1.37	0.89
3:J:615:LYS:NZ	4:K:7:GLN:HG2	1.85	0.89
1:A:44:ARG:HB2	1:A:183:ILE:CG2	2.01	0.89
5:F:135:ALA:HA	5:F:256:PHE:CD2	2.08	0.89
2:C:1120:ALA:HB2	2:C:1199:LEU:HD23	1.55	0.89
5:F:585:GLU:HA	5:F:588:ARG:HG3	1.55	0.89
3:J:514:THR:HG21	3:J:596:LEU:HB2	1.54	0.89
2:C:296:VAL:HB	2:C:336:LEU:HD12	1.55	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:314:ASN:OD1	2:I:348:SER:OG	1.90	0.89
3:D:156:ARG:NH1	3:D:157:GLN:HE21	1.71	0.88
3:D:609:TYR:HB2	3:D:617:THR:HG21	1.55	0.88
2:I:1238:LEU:HD12	2:I:1238:LEU:H	1.37	0.88
3:J:325:LYS:CE	3:J:330:MET:HG2	2.03	0.88
2:I:5:TYR:O	2:I:8:LYS:HG2	1.72	0.88
4:K:35:LYS:NZ	4:K:71:GLU:OE2	2.05	0.88
2:C:1293:VAL:HG13	2:C:1301:ARG:HA	1.54	0.88
3:J:479:GLU:HG2	4:K:20:VAL:HG11	1.52	0.88
3:J:931:THR:HB	3:J:1137:GLY:CA	2.03	0.88
3:D:114:ILE:HD12	3:D:304:ASP:HB3	1.56	0.88
5:F:572:THR:CG2	5:F:575:GLU:HB3	2.02	0.88
2:C:496:LYS:NZ	2:C:497:PRO:HG3	1.89	0.88
3:D:77:ARG:HG3	3:D:79:LYS:H	1.37	0.88
1:H:32:GLU:HB2	1:H:35:PHE:CD2	2.06	0.88
2:I:810:TYR:HE1	2:I:1078:LYS:HZ3	1.17	0.88
3:J:488:ASN:HD21	4:K:6:VAL:HG11	1.37	0.88
3:J:1157:ALA:CB	3:J:1206:ARG:HA	2.02	0.88
3:J:857:LEU:HD12	3:J:858:VAL:H	1.38	0.88
2:C:243:PRO:HB2	2:C:278:GLU:HG3	1.53	0.88
2:C:303:ASP:HB3	2:C:306:THR:CG2	2.04	0.88
3:D:870:ASP:O	3:D:874:GLU:HG3	1.74	0.88
1:H:153:VAL:O	1:H:175:ALA:N	2.06	0.88
2:I:516:ASP:HA	2:I:761:GLN:NE2	1.87	0.88
2:I:1284:ALA:HB1	3:J:1356:LEU:HD21	1.52	0.88
2:C:724:VAL:HG11	2:C:727:VAL:CG2	2.04	0.88
2:C:818:VAL:CG2	2:C:1096:ILE:HG23	2.04	0.88
2:C:1312:ASN:HD21	2:C:1314:GLN:HE21	0.93	0.88
3:D:245:LEU:HD21	3:D:249:LEU:HD12	1.56	0.88
3:J:481:ARG:HA	3:J:485:MET:HB2	1.54	0.88
3:J:1371:ARG:HH22	3:J:1372:ARG:HH21	1.20	0.88
3:D:854:ALA:CB	3:J:1372:ARG:HG3	2.03	0.87
3:D:896:ALA:HB1	3:D:908:ILE:HD11	1.53	0.87
5:L:484:ALA:HB1	5:L:490:PRO:O	1.73	0.87
1:A:45:ARG:HG2	1:B:38:THR:HB	1.56	0.87
3:D:382:TYR:HE1	3:D:401:VAL:HG21	1.39	0.87
1:G:153:VAL:HB	1:G:175:ALA:HB3	1.56	0.87
2:I:990:ASP:HA	2:I:997:TRP:CZ2	2.08	0.87
3:J:491:LEU:HB2	3:J:904:ALA:HA	1.55	0.87
3:D:198:CYS:O	3:D:202:ARG:N	2.06	0.87
3:J:537:TYR:O	3:J:540:GLY:N	2.08	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:1138:LEU:HB3	3:J:1139:PRO:HD3	1.56	0.87
1:A:61:ILE:HD11	1:A:142:MET:HE1	1.56	0.87
2:C:145:ILE:HD11	2:C:512:SER:HB2	1.57	0.87
3:D:16:GLU:O	3:D:1369:ARG:NH2	2.07	0.87
3:D:835:LEU:O	3:D:839:VAL:HG23	1.73	0.87
3:J:416:ILE:HD13	3:J:441:LEU:HD21	1.54	0.87
3:J:536:LEU:HD13	3:J:541:LEU:HB2	1.56	0.87
3:J:709:ARG:O	3:J:711:GLY:N	2.07	0.87
2:C:1196:LYS:HD2	2:C:1206:THR:CG2	2.03	0.87
3:D:108:ALA:CB	3:D:279:LEU:HD22	2.04	0.87
3:D:776:THR:O	3:D:778:GLY:N	2.06	0.87
5:F:484:ALA:HB2	5:F:494:ILE:HD12	1.55	0.87
2:I:698:PRO:HB3	2:I:1231:TYR:CG	2.09	0.87
3:J:707:ILE:HG22	3:J:708:ASN:H	1.37	0.87
3:J:737:ILE:HA	3:J:740:LEU:HD22	1.56	0.87
2:C:1192:GLU:HA	2:C:1195:ILE:HD12	1.56	0.87
3:J:128:LEU:HD11	3:J:189:LEU:HD21	1.56	0.87
1:B:103:ASN:HA	1:B:141:SER:HB2	1.54	0.87
3:D:667:GLN:HA	3:D:672:LEU:HD13	1.54	0.87
3:J:1157:ALA:HB3	3:J:1206:ARG:HA	1.56	0.87
5:L:585:GLU:HA	5:L:588:ARG:HD2	1.56	0.87
2:C:138:ILE:O	2:C:139:ASN:ND2	2.07	0.87
2:C:981:ALA:O	2:C:1007:LYS:NZ	2.07	0.87
4:K:53:GLU:HB3	4:K:59:ILE:HG13	1.56	0.87
2:C:157:PHE:CE2	2:C:431:LYS:HG2	2.10	0.87
2:I:296:VAL:HB	2:I:336:LEU:HD12	1.57	0.87
2:I:496:LYS:O	2:I:500:ALA:N	2.08	0.87
2:I:1223:ARG:NH1	2:I:1223:ARG:HB3	1.89	0.87
1:A:71:LYS:HB3	1:A:74:VAL:HG11	1.57	0.86
3:D:1322:ALA:HA	3:D:1325:PHE:CD1	2.09	0.86
1:G:81:ILE:HA	1:G:84:ASN:HD22	1.40	0.86
3:J:573:THR:CG2	3:J:576:ARG:HG3	2.03	0.86
3:J:1234:VAL:HA	3:J:1237:VAL:CG1	2.05	0.86
3:D:1265:THR:O	3:D:1303:SER:N	2.07	0.86
1:G:191:ARG:HH22	1:G:197:ASP:HA	1.37	0.86
2:I:1160:ASP:CB	2:I:1161:LEU:HA	2.05	0.86
2:I:1222:GLU:OE2	3:J:537:TYR:OH	1.93	0.86
3:J:54:ASP:OD1	3:J:60:ARG:NH1	2.08	0.86
1:B:88:LEU:CD1	1:B:89:ALA:H	1.89	0.86
3:D:98:ARG:O	3:D:248:ASP:HB2	1.76	0.86
5:F:279:ARG:NH2	5:F:347:ILE:HG12	1.91	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:394:ILE:HA	3:J:397:ALA:HB3	1.56	0.86
3:J:517:CYS:H	3:J:545:HIS:HB2	1.39	0.86
1:B:89:ALA:HB1	1:B:124:VAL:HB	1.56	0.86
2:C:411:ARG:NH2	2:C:427:ASP:OD2	2.07	0.86
2:C:1142:ARG:HH22	2:C:1165:SER:CB	1.88	0.86
2:C:870:ILE:CG2	2:C:944:ARG:HD3	2.06	0.86
3:D:35:PHE:CE1	3:D:101:ARG:HD3	2.10	0.86
3:D:128:LEU:HD21	3:D:189:LEU:CD2	2.05	0.86
3:D:1329:THR:O	3:D:1333:THR:OG1	1.93	0.86
2:I:95:PRO:HA	2:I:126:GLU:HG2	1.55	0.86
2:C:1030:GLU:OE2	2:C:1034:ARG:NH2	2.09	0.86
3:D:857:LEU:HD21	3:D:875:ASN:ND2	1.90	0.86
2:I:162:GLY:HA2	2:I:168:GLY:HA2	1.55	0.86
2:I:402:ARG:NH2	2:I:424:ASP:OD2	2.08	0.86
2:I:1329:GLU:HA	3:J:245:LEU:CD1	2.06	0.86
3:J:63:GLY:O	3:J:98:ARG:HD2	1.75	0.86
2:C:670:PHE:CE2	2:C:1113:LEU:HB3	2.10	0.86
3:D:145:VAL:HG23	3:D:159:ILE:HG22	1.57	0.86
1:H:91:ARG:HG3	1:H:122:GLU:HB3	1.55	0.86
3:J:120:LEU:HB3	3:J:121:PRO:CD	2.03	0.86
3:D:42:GLU:HG3	5:F:451:ARG:HG3	1.57	0.86
3:D:56:LEU:H	3:D:56:LEU:HD12	1.39	0.86
3:D:580:TRP:CZ3	3:D:589:TYR:HA	2.10	0.86
3:J:227:PHE:CE2	3:J:232:ASN:HB2	2.10	0.86
3:J:746:LEU:HG	3:J:758:PRO:CB	2.05	0.86
2:C:1254:VAL:O	3:D:99:ARG:NH2	2.08	0.86
2:I:404:LYS:HD3	2:I:586:PHE:HZ	1.39	0.86
2:I:516:ASP:HA	2:I:761:GLN:HE22	1.37	0.86
3:D:161:THR:N	3:D:164:GLN:OE1	2.09	0.86
3:D:591:ILE:HG23	3:D:592:VAL:HG13	1.56	0.86
3:D:810:THR:HG21	3:D:893:GLY:HA3	1.54	0.86
5:F:270:VAL:HG12	5:F:274:ARG:NH2	1.90	0.86
1:B:69:SER:H	1:B:78:ILE:HD12	1.39	0.85
2:C:1124:ILE:HG21	2:C:1180:MET:CE	2.06	0.85
2:C:1146:GLN:O	2:C:1146:GLN:NE2	2.07	0.85
3:D:232:ASN:ND2	3:D:1337:VAL:O	2.08	0.85
3:D:356:THR:OG1	3:D:357:VAL:N	2.07	0.85
4:E:36:ASP:HB2	4:E:37:PRO:CD	2.07	0.85
1:A:61:ILE:HG22	1:A:64:VAL:HG22	1.56	0.85
1:A:191:ARG:HH12	1:A:198:LEU:H	1.23	0.85
3:J:674:THR:N	3:J:677:GLU:OE1	2.08	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:363:LEU:HA	3:D:450:HIS:CD2	2.12	0.85
3:D:1371:ARG:HD2	3:J:856:ILE:HG13	1.58	0.85
2:I:1142:ARG:NH1	2:I:1169:VAL:HG21	1.92	0.85
3:D:741:ALA:O	3:D:762:ASN:ND2	2.08	0.85
4:E:80:LEU:O	4:E:84:THR:OG1	1.93	0.85
1:G:12:ARG:HG3	1:H:230:ALA:HB1	1.59	0.85
1:G:191:ARG:NH2	1:G:197:ASP:HA	1.90	0.85
2:I:590:PRO:HB2	2:I:655:VAL:HG21	1.58	0.85
2:I:1142:ARG:HD3	2:I:1161:LEU:HD13	1.59	0.85
3:D:43:THR:OG1	5:F:449:THR:O	1.94	0.85
3:D:850:LYS:HB3	3:D:851:PRO:CD	2.07	0.85
1:H:63:GLY:HA3	1:H:71:LYS:HE3	1.55	0.85
2:I:563:THR:HG21	2:I:570:GLY:H	1.41	0.85
3:J:537:TYR:HE2	3:J:631:TYR:HE1	1.21	0.85
1:A:13:LEU:HD12	1:A:16:ILE:HD11	1.58	0.85
2:C:810:TYR:CD2	3:D:359:PRO:HD2	2.12	0.85
3:D:810:THR:O	3:D:911:LYS:HE2	1.77	0.85
4:E:36:ASP:HB2	4:E:37:PRO:HD2	1.58	0.85
5:F:561:MET:HG2	5:F:571:TYR:CB	2.07	0.85
1:G:32:GLU:OE2	1:H:150:ARG:NH1	2.10	0.85
3:J:515:ARG:NH2	3:J:717:VAL:O	2.10	0.85
3:J:931:THR:HB	3:J:1137:GLY:HA3	1.58	0.85
2:C:1062:PRO:HA	2:C:1076:ILE:CD1	2.06	0.85
3:D:615:LYS:HE2	3:D:616:PRO:HD3	1.58	0.85
3:D:814:CYS:SG	3:D:883:ARG:NH2	2.50	0.85
3:D:1156:LEU:HA	3:D:1210:ILE:HG12	1.59	0.85
3:J:645:VAL:HB	3:J:701:LEU:HD23	1.58	0.85
2:C:525:THR:HG21	2:C:687:ARG:HD2	1.56	0.85
3:D:79:LYS:HE3	3:D:80:HIS:HA	1.58	0.85
2:C:854:ILE:CG2	2:C:855:PRO:HD2	2.07	0.85
3:D:611:ILE:HG22	3:D:612:LEU:HD12	1.57	0.85
5:L:454:VAL:O	5:L:457:ILE:N	2.10	0.85
3:D:205:LEU:CA	3:D:217:LEU:HD21	2.07	0.84
3:D:848:VAL:CG1	3:D:858:VAL:HG13	2.07	0.84
5:F:423:ARG:HB3	5:F:425:TYR:HD1	1.42	0.84
2:I:1268:GLN:NE2	3:J:352:ARG:HD3	1.91	0.84
3:J:252:LEU:HD21	3:J:262:THR:HB	1.58	0.84
3:J:317:THR:CG2	3:J:320:ASN:HB3	2.06	0.84
2:C:1124:ILE:HG21	2:C:1180:MET:HE2	1.57	0.84
2:I:1266:GLY:HA3	3:J:346:ARG:HH11	1.40	0.84
5:L:512:GLY:O	5:L:514:ASP:N	2.10	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:107:ILE:HD11	1:A:136:GLU:H	1.42	0.84
2:C:697:LYS:HA	2:C:795:ALA:HB2	1.58	0.84
2:I:447:HIS:CE1	2:I:553:THR:HG21	2.10	0.84
3:J:706:VAL:HG12	3:J:715:LYS:CB	2.08	0.84
3:J:1341:ARG:NH1	3:J:1343:GLU:OE2	2.11	0.84
2:C:339:ASN:OD1	2:C:342:ASP:N	2.10	0.84
3:D:115:TRP:O	3:D:119:SER:OG	1.95	0.84
2:I:289:VAL:HG13	2:I:319:LEU:HD11	1.59	0.84
5:L:449:THR:OG1	5:L:503:GLU:O	1.95	0.84
3:D:29:MET:O	3:D:32:SER:OG	1.95	0.84
3:J:265:LEU:HD13	3:J:327:LEU:HD21	1.59	0.84
3:J:527:LEU:H	3:J:550:VAL:HG12	1.40	0.84
5:L:506:SER:O	5:L:509:THR:OG1	1.95	0.84
2:C:607:SER:HB3	2:C:610:GLU:CG	2.07	0.84
3:D:895:CYS:SG	3:D:898:CYS:N	2.50	0.84
3:D:1149:ARG:NE	3:D:1153:PRO:HG2	1.93	0.84
5:F:530:LEU:HB2	5:F:533:ASP:HB2	1.60	0.84
1:G:91:ARG:NH1	1:G:212:ASP:OD1	2.10	0.84
1:G:161:SER:O	1:G:163:GLU:N	2.10	0.84
2:I:670:PHE:CD1	2:I:1184:THR:HG21	2.12	0.84
3:J:1262:ARG:HH22	3:J:1312:ALA:HB1	1.43	0.84
2:C:209:ILE:HA	2:C:212:ALA:HB3	1.58	0.84
2:C:810:TYR:CE2	3:D:359:PRO:HD2	2.12	0.84
3:D:647:PRO:HG3	3:D:697:MET:CB	2.08	0.84
1:B:301:THR:HA	1:B:304:LYS:CE	2.08	0.84
2:C:201:ARG:HG2	2:C:201:ARG:HH11	1.40	0.84
3:D:18:ASP:HB2	3:D:1373:ARG:NH2	1.93	0.84
3:D:1169:THR:HG23	3:D:1192:LYS:HD3	1.56	0.84
5:F:366:SER:O	5:F:369:GLU:HB2	1.78	0.84
2:I:590:PRO:HG3	2:I:605:TYR:CE1	2.12	0.84
3:J:660:GLU:O	3:J:663:GLU:HB2	1.77	0.84
3:J:910:ASN:HB3	4:K:15:ASN:OD1	1.76	0.84
2:I:94:ALA:HB2	2:I:129:LEU:HD11	1.59	0.84
2:I:417:SER:OG	2:I:419:ILE:O	1.95	0.84
3:J:707:ILE:N	3:J:714:GLU:O	2.09	0.84
5:L:121:LYS:HG2	5:L:421:TYR:CZ	2.13	0.84
2:C:617:ALA:HB3	2:C:653:MET:CB	2.06	0.84
3:D:42:GLU:HG3	5:F:451:ARG:CG	2.06	0.84
3:D:1322:ALA:HA	3:D:1325:PHE:CE1	2.13	0.84
2:I:98:VAL:HG21	2:I:124:MET:HE3	1.58	0.84
1:B:292:THR:HB	1:B:295:LEU:HB2	1.58	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:515:ARG:NH2	3:D:717:VAL:O	2.11	0.83
1:G:167:PRO:HB2	1:G:170:ARG:HG3	1.58	0.83
2:I:985:GLU:HB3	2:I:988:LYS:HB2	1.60	0.83
3:J:403:ARG:HG3	3:J:403:ARG:HH11	1.42	0.83
5:L:129:GLN:NE2	5:L:364:ARG:O	2.10	0.83
2:C:815:SER:HB2	2:C:1077:SER:OG	1.78	0.83
2:C:1214:ASP:OD1	2:C:1216:ARG:N	2.11	0.83
2:I:390:PHE:HA	2:I:419:ILE:HG21	1.61	0.83
2:I:548:ARG:HH21	2:I:568:ASN:HA	1.38	0.83
1:B:159:ILE:HG23	1:B:160:HIS:H	1.39	0.83
2:C:202:ARG:NH2	2:C:368:ARG:HH22	1.77	0.83
2:I:1297:ASP:OD1	2:I:1300:GLY:N	2.12	0.83
1:B:9:LEU:HB2	1:B:32:GLU:HG3	1.58	0.83
3:D:520:ALA:HB3	3:D:546:ALA:CB	2.08	0.83
3:D:865:HIS:CE1	3:D:868:TRP:H	1.96	0.83
5:F:577:GLY:O	5:F:579:GLN:N	2.12	0.83
2:I:818:VAL:HG23	2:I:1096:ILE:HG23	1.58	0.83
2:C:607:SER:CB	2:C:610:GLU:HG3	2.08	0.83
2:C:892:GLU:HG3	2:C:892:GLU:O	1.79	0.83
2:C:1029:LEU:HD23	2:C:1030:GLU:N	1.94	0.83
3:D:1163:VAL:CG2	3:D:1175:LEU:HD21	2.07	0.83
1:H:79:LEU:HD23	1:H:79:LEU:H	1.43	0.83
2:I:1155:VAL:HG23	2:I:1157:GLN:H	1.41	0.83
1:A:134:THR:OG1	2:C:773:LEU:HD11	1.78	0.83
1:B:88:LEU:HD12	1:B:89:ALA:N	1.93	0.83
5:F:231:THR:CG2	5:F:249:ILE:HG12	2.08	0.83
3:J:488:ASN:O	4:K:16:ARG:NH2	2.11	0.83
1:A:71:LYS:HB3	1:A:74:VAL:CG1	2.07	0.83
2:C:315:MET:HA	2:C:352:ARG:HH12	1.43	0.83
2:C:546:GLU:OE1	2:C:546:GLU:N	2.10	0.83
2:C:744:GLY:O	2:C:746:ALA:N	2.10	0.83
3:D:62:PHE:CD2	3:D:247:PRO:HG2	2.14	0.83
5:F:390:ILE:HD12	5:F:436:ARG:HG3	1.60	0.83
2:I:371:ARG:HB3	2:I:374:GLU:OE2	1.78	0.83
2:I:1222:GLU:O	3:J:636:GLY:HA3	1.78	0.83
3:J:115:TRP:O	3:J:119:SER:OG	1.94	0.83
3:J:148:GLU:H	3:J:156:ARG:HG3	1.42	0.83
1:A:41:ASN:ND2	2:C:1216:ARG:O	2.11	0.83
3:D:289:ASP:HA	3:D:292:VAL:HG13	1.57	0.83
5:F:231:THR:HG23	5:F:249:ILE:HG12	1.61	0.83
1:G:76:GLU:OE2	1:G:76:GLU:N	2.11	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:483:ASP:HB2	2:I:486:THR:HG21	1.60	0.83
2:C:871:VAL:O	2:C:944:ARG:NH1	2.12	0.83
2:C:1289:GLU:OE2	3:D:473:THR:HG22	1.77	0.83
2:I:119:GLU:HG3	2:I:489:PRO:HD2	1.59	0.83
2:I:280:ASP:HB3	2:I:282:VAL:CG2	2.06	0.83
3:J:189:LEU:HB3	3:J:234:PRO:HB2	1.60	0.83
3:J:203:GLU:O	3:J:207:GLU:N	2.12	0.83
1:B:154:PRO:HD2	1:B:157:THR:HG23	1.58	0.83
2:C:133:ASN:O	2:C:527:LYS:NZ	2.10	0.83
2:C:493:ILE:O	5:F:472:GLN:NE2	2.11	0.83
3:D:625:MET:O	3:D:628:GLY:N	2.12	0.83
3:J:289:ASP:HA	3:J:292:VAL:HG22	1.61	0.83
3:J:304:ASP:OD2	3:J:312:ARG:NH2	2.11	0.83
2:C:706:ARG:HG3	2:C:793:GLU:HG2	1.60	0.82
5:F:436:ARG:O	5:F:440:THR:HG22	1.77	0.82
2:I:138:ILE:O	2:I:139:ASN:ND2	2.11	0.82
1:B:62:ASP:N	1:B:142:MET:SD	2.51	0.82
3:D:128:LEU:HD21	3:D:189:LEU:HD23	1.62	0.82
3:D:321:LYS:HG2	3:D:322:ARG:N	1.91	0.82
3:D:682:VAL:O	3:D:685:ILE:HG12	1.80	0.82
5:F:128:ASN:O	5:F:132:CYS:N	2.12	0.82
2:I:115:LYS:HD3	2:I:116:ASP:H	1.43	0.82
2:I:726:TYR:CE2	2:I:728:ASP:HB2	2.14	0.82
3:J:132:LEU:HD11	3:J:136:GLU:HG3	1.61	0.82
1:A:13:LEU:CD1	1:A:16:ILE:HD11	2.09	0.82
1:A:92:VAL:HG12	1:A:121:VAL:HG22	1.62	0.82
2:C:1293:VAL:HG22	2:C:1300:GLY:HA3	1.61	0.82
3:D:282:LEU:HD21	5:F:410:ILE:HD11	1.60	0.82
3:D:1346:GLY:HA3	3:D:1349:GLU:OE2	1.79	0.82
2:I:617:ALA:HA	2:I:636:CYS:SG	2.19	0.82
2:I:703:GLY:N	2:I:705:GLU:OE2	2.10	0.82
2:I:1160:ASP:CG	2:I:1161:LEU:HA	2.00	0.82
3:J:146:VAL:HB	3:J:156:ARG:O	1.79	0.82
3:J:482:ALA:O	3:J:488:ASN:ND2	2.12	0.82
3:J:520:ALA:HB1	3:J:543:SER:CB	2.07	0.82
2:C:617:ALA:N	2:C:652:TYR:O	2.12	0.82
2:C:732:ILE:HG21	2:C:783:LEU:HD12	1.59	0.82
2:I:815:SER:HB2	2:I:1077:SER:OG	1.79	0.82
1:B:310:ARG:HA	1:B:310:ARG:NE	1.94	0.82
5:F:530:LEU:CB	5:F:533:ASP:HB2	2.10	0.82
1:G:14:VAL:HG13	1:G:27:THR:HB	1.62	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:9:LYS:HD3	2:I:1171:ARG:HD3	1.61	0.82
2:I:10:ARG:HD3	2:I:1181:PRO:HG2	1.60	0.82
2:I:407:ARG:HA	2:I:407:ARG:HE	1.39	0.82
2:I:490:GLN:HA	2:I:493:ILE:HG23	1.62	0.82
3:J:357:VAL:O	3:J:449:LEU:N	2.11	0.82
5:L:593:LYS:O	5:L:596:ARG:HB2	1.80	0.82
1:A:47:LEU:O	1:A:180:VAL:HG21	1.80	0.82
1:B:289:LEU:HB3	1:B:300:LEU:CD2	2.10	0.82
3:D:825:VAL:HG11	3:D:833:GLU:HB3	1.60	0.82
3:D:884:SER:OG	3:D:1254:GLU:OE1	1.97	0.82
3:D:1179:PRO:HD2	3:D:1184:ASP:HA	1.62	0.82
4:E:79:GLU:O	4:E:83:VAL:HG12	1.79	0.82
5:F:507:MET:O	5:F:519:LEU:HB3	1.79	0.82
1:H:42:ALA:HA	1:H:45:ARG:CG	2.06	0.82
3:J:666:GLU:O	3:J:670:SER:N	2.11	0.82
5:L:215:GLU:HA	5:L:218:ARG:HD3	1.59	0.82
5:L:585:GLU:HA	5:L:588:ARG:CD	2.10	0.82
1:B:283:GLN:O	1:B:284:ARG:HD2	1.80	0.82
3:D:425:ARG:HE	3:D:426:ALA:HB3	1.45	0.82
3:D:588:PRO:HB2	3:D:590:SER:OG	1.79	0.82
3:D:1227:HIS:CD2	3:J:1293:GLU:HG2	2.15	0.82
5:F:505:ILE:HD12	5:F:506:SER:H	1.44	0.82
2:I:1062:PRO:HA	2:I:1076:ILE:HG22	1.60	0.82
3:J:1284:ARG:HH12	3:J:1288:ALA:HB2	1.42	0.82
5:L:139:GLU:O	5:L:141:ILE:N	2.10	0.82
2:C:1142:ARG:NH1	2:C:1165:SER:HA	1.93	0.82
2:I:5:TYR:HD1	2:I:8:LYS:HD3	1.45	0.82
2:I:1108:ASN:OD1	2:I:1111:GLN:NE2	2.11	0.82
2:I:1266:GLY:HA3	3:J:346:ARG:NH1	1.94	0.82
3:J:292:VAL:O	3:J:296:LYS:HG3	1.80	0.82
1:B:102:LEU:CD2	1:B:115:ILE:HA	2.10	0.82
3:D:495:ASN:O	3:D:497:GLU:N	2.13	0.82
4:E:56:GLU:HB2	4:E:58:LEU:HD13	1.62	0.82
5:F:130:VAL:HG22	5:F:365:MET:HA	1.60	0.82
1:G:228:LEU:O	1:G:230:ALA:N	2.12	0.82
2:I:23:ASP:OD1	2:I:23:ASP:N	2.12	0.82
2:C:1122:LYS:HG2	2:C:1229:TYR:CE1	2.14	0.82
3:D:660:GLU:O	3:D:663:GLU:HB2	1.79	0.82
3:D:1289:ASN:O	3:D:1289:ASN:ND2	2.11	0.82
5:F:561:MET:HG2	5:F:571:TYR:HB2	1.60	0.82
2:I:201:ARG:HH11	2:I:201:ARG:CG	1.92	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:156:SER:HA	1:B:158:ARG:N	1.94	0.81
1:B:252:ILE:O	1:B:278:ILE:HD11	1.79	0.81
2:C:840:SER:HB2	2:C:850:ILE:HD11	1.60	0.81
2:C:1305:TYR:CE1	3:D:379:PRO:HG3	2.14	0.81
3:D:260:PHE:HB2	5:F:504:PRO:HG2	1.62	0.81
3:D:883:ARG:NH2	3:D:898:CYS:SG	2.53	0.81
5:F:608:ARG:NH2	5:F:609:SER:HA	1.95	0.81
3:J:128:LEU:HD21	3:J:189:LEU:HD23	1.62	0.81
3:J:1316:THR:HG22	3:J:1318:SER:N	1.95	0.81
3:D:290:ILE:H	3:D:290:ILE:HD12	1.45	0.81
3:D:398:LYS:HG2	3:D:402:GLU:OE2	1.80	0.81
3:D:797:THR:HG22	3:D:924:GLY:HA3	1.61	0.81
5:L:373:ARG:HD2	5:L:377:LYS:HE3	1.62	0.81
2:C:211:ARG:NH1	2:C:217:THR:OG1	2.12	0.81
2:C:834:GLN:HE21	2:C:1056:VAL:HG21	1.43	0.81
3:D:60:ARG:HA	3:D:89:GLY:O	1.78	0.81
5:F:348:GLU:HG3	5:F:355:ILE:HG12	1.61	0.81
5:F:437:GLN:HG3	5:F:438:ALA:N	1.93	0.81
5:F:562:ARG:CD	5:F:573:LEU:HG	2.10	0.81
2:I:538:LEU:HD12	2:I:538:LEU:H	1.44	0.81
2:I:607:SER:OG	2:I:610:GLU:HG3	1.80	0.81
2:I:697:LYS:HA	2:I:795:ALA:HB2	1.60	0.81
1:A:50:SER:HB3	1:B:8:PHE:CZ	2.13	0.81
1:A:102:LEU:HD23	1:A:115:ILE:HA	1.62	0.81
2:C:817:LEU:HD12	2:C:1097:VAL:HB	1.62	0.81
2:C:1308:ILE:HG23	3:D:380:PHE:CE2	2.15	0.81
1:G:195:ARG:CG	1:G:198:LEU:HG	2.10	0.81
2:I:379:GLU:O	2:I:383:SER:OG	1.98	0.81
2:I:819:SER:OG	2:I:821:ARG:HB3	1.80	0.81
1:A:61:ILE:HD11	1:A:142:MET:CE	2.09	0.81
1:B:123:ILE:HG22	1:B:126:PRO:HD3	1.62	0.81
2:C:71:VAL:HB	2:C:99:LYS:HB2	1.62	0.81
2:C:1305:TYR:CE1	3:D:379:PRO:CG	2.63	0.81
5:F:525:ASP:OD1	5:F:526:THR:N	2.13	0.81
1:G:10:LYS:NZ	1:H:229:GLU:OE1	2.14	0.81
1:G:167:PRO:HG2	1:G:170:ARG:HD2	1.61	0.81
2:C:1239:VAL:O	2:C:1242:LYS:N	2.11	0.81
2:I:615:VAL:HG13	2:I:650:VAL:HA	1.61	0.81
2:C:483:ASP:CB	2:C:486:THR:HG21	2.02	0.81
2:C:1029:LEU:HD23	2:C:1030:GLU:HA	1.60	0.81
2:C:1106:ARG:O	2:C:1108:ASN:N	2.14	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:171:GLU:HB3	3:D:172:PHE:CD2	2.16	0.81
3:D:1179:PRO:CD	3:D:1184:ASP:HA	2.10	0.81
3:D:1375:ALA:HB1	3:J:853:THR:OG1	1.80	0.81
5:F:587:ILE:HD12	5:F:590:ILE:HB	1.62	0.81
2:I:15:PHE:HE1	2:I:1194:GLU:HB3	1.45	0.81
5:L:124:GLU:O	5:L:128:ASN:ND2	2.13	0.81
2:C:59:ILE:CD1	2:C:475:VAL:HG21	2.11	0.81
3:D:35:PHE:CD1	3:D:101:ARG:HB3	2.16	0.81
3:D:1160:SER:N	3:D:1206:ARG:HB3	1.96	0.81
1:H:153:VAL:CB	1:H:175:ALA:HB3	2.04	0.81
3:J:356:THR:OG1	3:J:357:VAL:N	2.12	0.81
1:A:167:PRO:HG2	1:A:170:ARG:HG3	1.63	0.81
1:B:95:LYS:HD2	1:B:120:ASP:HB3	1.61	0.81
2:C:69:GLN:HE21	2:C:101:ARG:HD2	1.45	0.81
3:D:362:ARG:O	3:D:365:GLN:HG2	1.79	0.81
3:D:1280:VAL:HG22	3:D:1284:ARG:HE	1.46	0.81
2:I:993:PRO:HG2	2:I:996:ARG:CB	2.11	0.81
2:C:234:ASP:OD1	2:C:235:ASN:N	2.12	0.81
2:C:358:ASP:OD1	2:C:361:SER:N	2.14	0.81
3:D:1149:ARG:CZ	3:D:1153:PRO:HG2	2.11	0.81
5:F:487:MET:HB3	5:F:489:MET:HG2	1.61	0.81
2:C:208:ILE:HG23	2:C:362:ALA:HB1	1.63	0.80
3:D:1168:GLU:OE2	3:D:1169:THR:OG1	1.97	0.80
2:I:386:GLU:HA	2:I:390:PHE:HD2	1.46	0.80
2:I:520:PRO:HG3	2:I:714:VAL:HG11	1.63	0.80
1:A:179:PRO:HB3	1:A:208:ASN:ND2	1.97	0.80
1:G:45:ARG:NH2	2:I:1216:ARG:HA	1.96	0.80
2:I:660:VAL:HG22	2:I:661:VAL:HG12	1.61	0.80
2:C:464:PHE:O	2:C:467:GLY:N	2.14	0.80
3:D:709:ARG:O	3:D:711:GLY:N	2.14	0.80
3:D:733:SER:O	3:D:736:GLN:N	2.15	0.80
3:D:1238:GLN:HB3	3:D:1242:ARG:HH21	1.46	0.80
3:D:1359:ALA:O	3:D:1363:TYR:N	2.14	0.80
1:G:88:LEU:HD13	1:G:128:HIS:CD2	2.16	0.80
1:H:42:ALA:CA	1:H:45:ARG:HG3	2.07	0.80
2:I:594:VAL:HG11	2:I:650:VAL:HG23	1.62	0.80
3:J:811:GLU:O	3:J:895:CYS:HA	1.81	0.80
2:C:1281:TYR:HE1	3:D:484:MET:HA	1.45	0.80
3:D:1234:VAL:HA	3:D:1237:VAL:HG12	1.64	0.80
2:I:86:GLN:HA	2:I:140:GLY:HA2	1.64	0.80
2:I:1116:HIS:CE1	3:J:641:ILE:H	2.00	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:L:324:LYS:HG3	5:L:326:TRP:CZ2	2.16	0.80
1:B:92:VAL:O	1:B:148:ARG:NH2	2.15	0.80
3:D:390:LEU:HD22	3:D:407:VAL:HG11	1.62	0.80
3:D:527:LEU:HD21	3:D:536:LEU:HD23	1.63	0.80
2:I:871:VAL:O	2:I:944:ARG:NH1	2.13	0.80
3:J:339:ARG:CB	3:J:340:GLN:HA	2.11	0.80
1:B:154:PRO:HD2	1:B:157:THR:CG2	2.11	0.80
2:C:1068:GLY:HA3	2:C:1072:ASN:HD21	1.47	0.80
2:C:1132:LEU:HD22	2:C:1177:ARG:HH22	1.45	0.80
3:D:514:THR:HG21	3:D:596:LEU:HB2	1.62	0.80
3:D:608:CYS:SG	3:D:617:THR:HA	2.20	0.80
5:F:132:CYS:SG	5:F:257:LYS:NZ	2.52	0.80
5:F:575:GLU:HA	5:F:578:LYS:CD	2.12	0.80
1:G:195:ARG:HD2	1:G:196:THR:H	1.46	0.80
2:I:758:ARG:HB2	2:I:833:ILE:CG2	2.11	0.80
3:J:98:ARG:O	3:J:248:ASP:HB2	1.81	0.80
3:J:334:LYS:HA	3:J:1328:THR:HG21	1.62	0.80
3:D:357:VAL:CG2	3:D:461:PHE:HE1	1.95	0.80
5:F:139:GLU:CA	5:F:142:THR:HG22	2.04	0.80
5:F:234:THR:HB	5:F:245:ALA:CB	2.09	0.80
5:F:484:ALA:O	5:F:487:MET:HB2	1.82	0.80
2:I:234:ASP:OD1	2:I:235:ASN:N	2.15	0.80
5:L:412:LEU:CB	5:L:435:ILE:HD11	2.10	0.80
1:B:196:THR:HG22	1:B:197:ASP:HB3	1.63	0.80
2:C:1029:LEU:HD23	2:C:1030:GLU:CA	2.12	0.80
2:C:1113:LEU:HD11	3:D:641:ILE:HD11	1.64	0.80
1:H:25:LYS:HG3	1:H:204:GLU:HG3	1.63	0.80
1:H:47:LEU:HD13	1:H:180:VAL:HG11	1.62	0.80
2:I:318:SER:H	2:I:321:LEU:HD12	1.45	0.80
2:I:1164:PHE:O	2:I:1166:ASP:N	2.15	0.80
3:J:268:LEU:HD22	3:J:306:LEU:HA	1.62	0.80
4:K:32:VAL:O	4:K:34:GLY:N	2.15	0.80
2:C:621:SER:HB3	2:C:634:VAL:HG21	1.62	0.80
1:G:218:ARG:HH11	1:H:233:ASP:N	1.80	0.80
3:J:520:ALA:CB	3:J:543:SER:HB3	2.10	0.80
1:H:23:HIS:ND1	1:H:206:GLU:HG2	1.95	0.80
2:I:75:LEU:HD11	2:I:127:ILE:HD11	1.63	0.80
2:I:546:GLU:OE1	2:I:546:GLU:N	2.11	0.80
5:L:98:VAL:HB	5:L:402:LEU:HD21	1.64	0.80
1:A:152:TYR:CD1	2:C:824:GLN:HG2	2.17	0.79
1:B:272:ALA:O	1:B:274:ALA:N	2.14	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:59:ILE:HG21	2:C:475:VAL:CG1	2.12	0.79
2:C:1305:TYR:HE1	3:D:379:PRO:HG3	1.45	0.79
3:D:1360:GLY:HA2	4:E:17:PHE:CE2	2.17	0.79
5:F:297:MET:CE	5:F:330:LEU:HD21	2.12	0.79
3:J:733:SER:O	3:J:736:GLN:N	2.14	0.79
1:B:46:ILE:HG22	1:B:47:LEU:N	1.97	0.79
1:B:101:THR:HA	1:B:142:MET:O	1.83	0.79
1:B:157:THR:O	1:B:159:ILE:N	2.15	0.79
3:D:518:VAL:HG11	3:D:707:ILE:HD13	1.64	0.79
5:F:348:GLU:CG	5:F:355:ILE:HG12	2.11	0.79
2:I:1285:TYR:CD2	3:J:475:GLU:HG2	2.17	0.79
3:J:1219:ASP:OD1	3:J:1222:ARG:NH2	2.14	0.79
1:A:44:ARG:HG2	1:A:45:ARG:N	1.95	0.79
1:A:190:ALA:HB2	1:A:200:LYS:N	1.98	0.79
1:B:76:GLU:OE1	1:B:76:GLU:N	2.13	0.79
2:C:516:ASP:HA	2:C:761:GLN:HE22	1.48	0.79
3:D:707:ILE:O	3:D:714:GLU:N	2.12	0.79
3:D:806:ASP:HA	3:D:1347:LEU:CD1	2.12	0.79
1:G:28:LEU:HD23	1:H:231:PHE:HE1	1.46	0.79
5:L:135:ALA:HB1	5:L:253:SER:HB3	1.65	0.79
2:C:27:LEU:O	2:C:528:ARG:NH1	2.14	0.79
2:C:1113:LEU:CD1	3:D:641:ILE:HD11	2.13	0.79
3:D:117:LEU:HA	3:D:124:ILE:HD12	1.62	0.79
1:G:89:ALA:O	1:G:124:VAL:HG12	1.80	0.79
2:I:968:GLU:HG3	2:I:1018:TYR:HE1	1.46	0.79
2:I:1087:TYR:HE1	2:I:1215:GLY:HA2	1.45	0.79
2:I:1142:ARG:NH1	2:I:1165:SER:HA	1.97	0.79
3:J:322:ARG:HG3	3:J:323:PRO:HD2	1.65	0.79
3:J:746:LEU:CD2	3:J:758:PRO:HG3	2.12	0.79
3:D:1159:ILE:HG22	3:D:1177:ILE:CD1	2.13	0.79
1:G:67:GLU:HB2	1:G:79:LEU:HD23	1.62	0.79
1:G:79:LEU:O	1:G:83:LEU:HD13	1.82	0.79
2:I:407:ARG:HH22	2:I:414:ILE:HG22	1.47	0.79
2:I:1212:LEU:HD22	2:I:1225:VAL:HG21	1.64	0.79
2:I:1292:THR:HG22	2:I:1293:VAL:HG23	1.65	0.79
5:L:439:ILE:HG13	5:L:440:THR:N	1.98	0.79
2:C:15:PHE:HB3	2:C:17:LYS:NZ	1.98	0.79
2:C:98:VAL:HG21	2:C:124:MET:HE3	1.63	0.79
2:C:1160:ASP:HB2	2:C:1161:LEU:CA	2.12	0.79
3:D:1203:ARG:NH2	3:D:1205:GLU:OE2	2.15	0.79
3:J:598:LYS:O	3:J:601:ILE:HG22	1.82	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:762:ASN:ND2	3:J:765:GLU:OE2	2.15	0.79
5:L:224:LEU:HA	5:L:255:VAL:HG11	1.62	0.79
1:B:81:ILE:HG22	1:B:85:LEU:CD2	2.12	0.79
2:C:799:ASN:HB3	2:C:1231:TYR:CD1	2.15	0.79
2:C:1149:TYR:HD1	2:C:1159:VAL:HG11	1.47	0.79
3:D:259:ARG:HG2	3:D:260:PHE:N	1.97	0.79
3:J:242:LEU:HD23	3:J:243:PRO:CD	2.12	0.79
3:J:678:ARG:HG3	3:J:679:TYR:H	1.48	0.79
1:B:152:TYR:HA	1:B:175:ALA:O	1.82	0.79
1:B:255:ARG:HH11	1:B:255:ARG:CG	1.95	0.79
2:C:1281:TYR:CE1	3:D:484:MET:HA	2.18	0.79
3:D:270:ARG:NH2	5:F:449:THR:HG23	1.98	0.79
3:D:514:THR:O	3:D:514:THR:OG1	2.00	0.79
3:D:670:SER:HB2	3:D:672:LEU:CD1	2.13	0.79
5:F:572:THR:HG23	5:F:575:GLU:CB	2.10	0.79
3:J:336:GLY:HA2	3:J:1327:GLU:N	1.95	0.79
3:J:358:GLY:H	3:J:359:PRO:HD3	1.47	0.79
3:J:801:VAL:O	3:J:805:GLN:HB2	1.82	0.79
2:C:250:THR:HA	2:C:268:ARG:HA	1.65	0.79
2:C:522:SER:HA	2:C:525:THR:HG22	1.65	0.79
2:C:755:LYS:O	2:C:757:THR:HG22	1.83	0.79
2:C:1125:GLY:HA3	2:C:1179:GLY:HA2	1.64	0.79
5:F:279:ARG:NH2	5:F:350:GLU:OE1	2.15	0.79
5:F:333:VAL:HG22	5:F:336:GLU:HB2	1.65	0.79
2:I:216:THR:HG23	2:I:219:GLN:OE1	1.83	0.79
3:J:41:PRO:HB2	3:J:270:ARG:HG3	1.65	0.79
3:J:114:ILE:HD12	3:J:304:ASP:HB3	1.63	0.79
1:A:18:GLN:HA	1:A:24:ALA:CB	2.13	0.79
2:I:452:ARG:HG3	2:I:452:ARG:NH1	1.95	0.79
2:I:901:LEU:HA	5:L:563:PHE:HE2	1.46	0.79
3:J:275:ARG:HH11	3:J:298:MET:HB3	1.48	0.79
2:C:4:SER:OG	2:C:5:TYR:N	2.14	0.78
3:D:260:PHE:HB2	5:F:504:PRO:HG3	1.65	0.78
2:I:1281:TYR:OH	3:J:432:LEU:HA	1.83	0.78
3:J:1153:PRO:HA	3:J:1214:PRO:O	1.84	0.78
5:L:404:LEU:O	5:L:408:GLY:N	2.16	0.78
1:A:57:THR:HG23	1:A:158:ARG:NH1	1.98	0.78
2:C:593:LYS:HB3	2:C:602:GLU:CG	2.13	0.78
3:D:147:ILE:HG13	3:D:177:ASP:HB3	1.63	0.78
3:D:768:ASN:N	3:D:771:GLN:OE1	2.16	0.78
5:F:540:LEU:HD13	5:F:607:LEU:CD2	2.13	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:505:ASP:HB3	3:J:629:PHE:CE1	2.18	0.78
3:J:614:LEU:N	3:J:615:LYS:HZ1	1.81	0.78
3:J:847:ASP:N	3:J:847:ASP:OD1	2.16	0.78
5:L:253:SER:O	5:L:257:LYS:N	2.16	0.78
1:B:33:ARG:HG2	1:B:33:ARG:NH1	1.92	0.78
2:C:98:VAL:HG21	2:C:124:MET:CE	2.12	0.78
2:C:146:VAL:CG1	2:C:529:ARG:HB3	2.13	0.78
2:C:146:VAL:HG12	2:C:529:ARG:HB3	1.62	0.78
2:C:1174:GLU:OE2	2:C:1177:ARG:NH1	2.16	0.78
2:C:1191:LYS:HZ3	2:C:1193:ALA:N	1.81	0.78
2:C:1238:LEU:H	2:C:1238:LEU:HD12	1.49	0.78
1:G:190:ALA:HB2	1:G:200:LYS:HB2	1.66	0.78
2:I:331:LYS:HB2	2:I:332:ARG:HH21	1.48	0.78
3:J:492:SER:CB	3:J:499:ILE:HD13	2.14	0.78
3:J:614:LEU:HD23	4:K:7:GLN:HB2	1.63	0.78
3:J:617:THR:O	3:J:620:PHE:HB3	1.84	0.78
5:L:316:PHE:CZ	5:L:334:SER:HA	2.18	0.78
1:A:41:ASN:HB2	2:C:1218:GLY:HA3	1.66	0.78
3:D:528:THR:O	3:D:551:ARG:HB3	1.83	0.78
3:D:903:LEU:HD21	3:D:909:ILE:HD12	1.64	0.78
2:I:280:ASP:CB	2:I:282:VAL:HG23	2.11	0.78
2:I:798:GLN:NE2	2:I:827:ARG:O	2.16	0.78
3:J:115:TRP:CZ2	3:J:1329:THR:HG23	2.18	0.78
3:J:910:ASN:ND2	4:K:15:ASN:HA	1.99	0.78
3:J:1181:ASP:OD1	3:J:1182:GLY:N	2.13	0.78
2:I:1212:LEU:HD22	2:I:1225:VAL:CG2	2.13	0.78
3:J:152:THR:HG21	3:J:176:PHE:CB	2.13	0.78
4:K:67:ARG:NH1	4:K:71:GLU:OE2	2.16	0.78
1:A:232:VAL:O	1:B:218:ARG:HG2	1.83	0.78
1:B:112:ALA:HA	1:B:115:ILE:HG13	1.64	0.78
1:B:216:ALA:O	1:B:220:ALA:N	2.15	0.78
2:C:356:THR:HG21	2:C:362:ALA:HA	1.65	0.78
2:I:557:ARG:NH2	2:I:608:ALA:HA	1.98	0.78
3:J:1184:ASP:N	3:J:1185:PRO:HD3	1.98	0.78
3:D:1341:ARG:NH1	3:D:1343:GLU:OE2	2.16	0.78
5:F:130:VAL:HG13	5:F:365:MET:HG3	1.66	0.78
5:F:295:CYS:SG	5:F:330:LEU:HD23	2.23	0.78
2:I:1116:HIS:CE1	3:J:641:ILE:HB	2.18	0.78
2:C:1339:LEU:HD23	3:D:17:PHE:CE1	2.19	0.78
3:J:405:GLU:O	3:J:408:VAL:HG22	1.84	0.78
3:J:413:ASP:O	3:J:416:ILE:HG22	1.83	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:660:GLU:HB3	3:J:685:ILE:HD12	1.65	0.78
3:J:688:ALA:O	3:J:692:ARG:N	2.16	0.78
5:L:387:VAL:HG13	5:L:435:ILE:HG21	1.66	0.78
2:C:26:TYR:CE2	2:C:28:LEU:HB2	2.18	0.78
2:C:80:PHE:HB3	2:C:84:GLU:HB2	1.65	0.78
2:C:367:TYR:HD1	2:C:381:ALA:HA	1.48	0.78
2:C:517:GLN:HE21	2:C:759:SER:HA	1.48	0.78
3:D:660:GLU:HB3	3:D:685:ILE:HD12	1.65	0.78
5:F:265:GLN:O	5:F:268:TYR:HB3	1.83	0.78
5:F:366:SER:HA	5:F:369:GLU:OE1	1.84	0.78
5:F:562:ARG:HG2	5:F:573:LEU:CD1	2.12	0.78
2:I:148:GLN:HG2	2:I:149:LEU:H	1.48	0.78
2:I:517:GLN:N	2:I:761:GLN:OE1	2.16	0.78
2:I:646:SER:CB	2:I:649:GLN:HG3	2.13	0.78
2:I:890:LYS:HE2	2:I:891:GLY:O	1.82	0.78
3:J:97:VAL:HG11	3:J:101:ARG:CZ	2.13	0.78
3:J:580:TRP:HA	3:J:583:VAL:HG23	1.64	0.78
3:J:1167:LYS:HB2	3:J:1174:ARG:HH11	1.49	0.78
5:L:108:VAL:HA	5:L:385:ARG:NH1	1.97	0.78
2:C:685:MET:CE	2:C:1071:GLY:HA2	2.14	0.78
2:C:1033:ARG:HG2	2:C:1033:ARG:HH11	1.47	0.78
3:D:854:ALA:HB1	3:J:1372:ARG:HG3	1.64	0.78
3:D:866:GLU:OE1	3:D:866:GLU:N	2.17	0.78
2:I:493:ILE:O	5:L:472:GLN:NE2	2.17	0.78
5:L:246:GLN:O	5:L:250:LEU:HG	1.83	0.78
5:L:377:LYS:O	5:L:381:GLU:HG3	1.84	0.78
5:L:530:LEU:H	5:L:530:LEU:CD1	1.95	0.78
1:B:82:LEU:HA	1:B:85:LEU:CD1	2.14	0.77
1:B:192:VAL:HB	1:B:195:ARG:HG3	1.65	0.77
2:C:992:LEU:HB2	2:C:993:PRO:HD2	1.64	0.77
3:D:1372:ARG:HH21	3:J:854:ALA:CB	1.93	0.77
2:I:403:MET:HE3	2:I:404:LYS:N	1.99	0.77
3:J:174:ASP:O	3:J:175:GLU:HG2	1.82	0.77
3:J:210:SER:HB2	3:J:213:LYS:CB	2.14	0.77
3:D:1165:PHE:CD2	3:D:1175:LEU:HD13	2.19	0.77
1:G:45:ARG:HG3	1:G:46:ILE:HD13	1.65	0.77
1:H:107:ILE:HG12	1:H:136:GLU:O	1.83	0.77
3:J:370:LYS:HG2	3:J:441:LEU:HD12	1.64	0.77
5:L:374:ARG:O	5:L:378:GLU:HG3	1.85	0.77
1:B:192:VAL:O	1:B:194:GLN:N	2.17	0.77
3:D:748:ALA:HA	3:D:754:ILE:HA	1.66	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:594:ALA:HB3	5:F:595:LEU:HD23	1.67	0.77
5:L:563:PHE:O	5:L:565:ILE:N	2.17	0.77
3:D:576:ARG:NH1	3:D:593:ASN:O	2.17	0.77
2:I:1075:VAL:CG2	3:J:463:GLY:HA2	2.14	0.77
2:C:378:ARG:NH1	2:C:382:GLU:OE2	2.17	0.77
2:C:899:GLU:O	2:C:902:LEU:N	2.16	0.77
2:I:359:ARG:HG2	2:I:363:LEU:HD12	1.65	0.77
2:I:724:VAL:HG23	2:I:775:GLU:O	1.83	0.77
3:J:353:SER:OG	3:J:354:VAL:N	2.15	0.77
3:J:418:GLU:HB3	4:K:48:VAL:HG23	1.64	0.77
3:J:814:CYS:CB	3:J:889:ASP:HB3	2.13	0.77
1:A:7:GLU:OE1	1:B:150:ARG:NH2	2.17	0.77
2:C:519:ASN:HD21	2:C:689:ALA:HB3	1.47	0.77
3:D:426:ALA:HB1	3:D:427:PRO:HD3	1.67	0.77
3:D:521:LYS:O	3:D:542:ALA:HA	1.83	0.77
2:I:818:VAL:HG22	2:I:1096:ILE:HG12	1.67	0.77
3:J:270:ARG:NH2	5:L:449:THR:HG23	1.98	0.77
3:J:362:ARG:O	3:J:365:GLN:HG2	1.84	0.77
1:A:39:LEU:O	1:A:43:LEU:N	2.16	0.77
2:C:98:VAL:O	2:C:121:GLU:HA	1.84	0.77
3:D:793:SER:O	3:D:796:LEU:HB3	1.85	0.77
3:D:1215:GLU:CG	3:D:1220:ILE:HD11	2.15	0.77
2:I:389:PHE:HA	2:I:395:TYR:CD1	2.20	0.77
3:J:232:ASN:HA	3:J:236:TRP:CZ3	2.20	0.77
3:J:520:ALA:HB3	3:J:546:ALA:CB	2.12	0.77
2:C:241:LEU:HD11	2:C:246:LEU:HD11	1.65	0.77
3:D:747:MET:O	3:D:755:ILE:HG13	1.85	0.77
3:D:1316:THR:HG22	3:D:1318:SER:N	1.99	0.77
2:I:1276:TRP:HA	2:I:1279:GLU:OE1	1.84	0.77
3:J:339:ARG:O	3:J:798:ARG:NH2	2.18	0.77
3:J:844:THR:HG23	3:J:864:LEU:HD21	1.65	0.77
5:L:239:GLY:O	5:L:245:ALA:HB2	1.85	0.77
1:A:197:ASP:O	1:A:198:LEU:HD23	1.85	0.77
1:B:292:THR:HB	1:B:295:LEU:CB	2.15	0.77
2:C:605:TYR:C	2:C:606:LEU:HD12	2.04	0.77
2:C:883:LEU:HB2	2:C:918:LEU:CD1	2.13	0.77
3:D:35:PHE:HD1	3:D:101:ARG:HB3	1.47	0.77
3:D:1175:LEU:O	3:D:1187:GLU:HA	1.85	0.77
1:H:115:ILE:HG22	1:H:116:THR:H	1.49	0.77
3:J:642:ASP:HA	3:J:764:ARG:HH21	1.48	0.77
3:J:857:LEU:HD13	3:J:872:LEU:HD21	1.67	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:14:VAL:CG2	1:A:15:ASP:H	1.89	0.77
3:D:146:VAL:HB	3:D:156:ARG:O	1.84	0.77
3:D:278:ARG:HA	3:D:281:ARG:NH1	1.99	0.77
3:D:820:ILE:HG22	3:D:1227:HIS:ND1	2.00	0.77
3:D:908:ILE:HD13	3:D:909:ILE:O	1.85	0.77
3:D:1168:GLU:O	3:D:1170:LYS:N	2.17	0.77
1:H:76:GLU:OE1	1:H:76:GLU:N	2.18	0.77
2:I:98:VAL:HG21	2:I:124:MET:HE2	1.67	0.77
3:J:289:ASP:N	3:J:289:ASP:OD1	2.17	0.77
3:J:1157:ALA:HB3	3:J:1207:GLY:H	1.50	0.77
1:B:9:LEU:HB3	1:B:32:GLU:HG3	1.67	0.76
3:D:242:LEU:HD23	3:D:243:PRO:HD2	1.66	0.76
5:F:575:GLU:HA	5:F:578:LYS:HD2	1.67	0.76
1:H:41:ASN:OD1	2:I:1217:THR:HA	1.86	0.76
3:J:45:ASN:O	3:J:46:TYR:HB3	1.83	0.76
3:J:342:LEU:O	3:J:344:GLY:N	2.17	0.76
3:J:576:ARG:NH1	3:J:593:ASN:O	2.15	0.76
1:A:45:ARG:HH12	1:B:37:HIS:HB2	1.49	0.76
3:D:260:PHE:CB	5:F:504:PRO:HG2	2.15	0.76
3:D:1282:TYR:HD2	3:D:1286:LYS:HZ1	1.33	0.76
2:I:1287:LEU:HD22	3:J:1357:ILE:HD11	1.67	0.76
2:C:1024:GLU:HA	2:C:1027:LYS:CD	2.13	0.76
3:D:37:GLU:OE2	3:D:106:GLU:N	2.15	0.76
3:D:120:LEU:HB3	3:D:121:PRO:CD	2.14	0.76
5:F:581:ASP:O	5:F:583:THR:HG22	1.85	0.76
1:G:76:GLU:OE1	1:G:132:HIS:N	2.18	0.76
1:G:88:LEU:HD13	1:G:128:HIS:HD2	1.51	0.76
2:I:1109:ILE:HD11	3:J:644:MET:SD	2.25	0.76
3:J:614:LEU:HB3	3:J:615:LYS:HZ3	1.48	0.76
5:F:583:THR:OG1	5:F:584:ARG:HG2	1.85	0.76
1:G:32:GLU:HB2	1:G:35:PHE:CD2	2.20	0.76
1:G:133:LEU:HD21	1:G:140:ILE:HD11	1.68	0.76
3:J:262:THR:O	5:L:507:MET:N	2.18	0.76
3:J:770:LEU:HD13	3:J:770:LEU:H	1.50	0.76
3:J:901:ARG:HA	3:J:908:ILE:HA	1.68	0.76
2:C:57:PHE:HD1	2:C:70:TYR:HB2	1.51	0.76
1:G:31:LEU:HB2	1:G:199:ASP:O	1.86	0.76
2:I:12:ARG:HG3	2:I:1181:PRO:HB2	1.66	0.76
2:I:1131:MET:CE	2:I:1141:LEU:HD12	2.12	0.76
3:J:908:ILE:HD13	3:J:909:ILE:N	2.00	0.76
3:J:1262:ARG:NH2	3:J:1312:ALA:HB1	2.00	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:L:124:GLU:HG2	5:L:128:ASN:HD21	1.51	0.76
5:L:394:TYR:CG	5:L:439:ILE:HD11	2.20	0.76
2:C:1196:LYS:CD	2:C:1206:THR:HG23	2.13	0.76
2:C:1278:LEU:CD1	2:C:1287:LEU:HB2	2.15	0.76
1:G:125:LYS:HE2	1:G:128:HIS:HB2	1.67	0.76
1:H:79:LEU:HA	1:H:82:LEU:HG	1.67	0.76
2:I:812:PHE:O	2:I:1099:ASN:ND2	2.18	0.76
2:I:1082:ILE:H	2:I:1082:ILE:HD12	1.50	0.76
3:J:645:VAL:HB	3:J:701:LEU:CD2	2.16	0.76
2:C:323:ALA:O	2:C:327:GLN:N	2.17	0.76
2:C:817:LEU:CD2	2:C:1080:ASN:HD22	1.97	0.76
3:D:45:ASN:OD1	3:D:48:THR:N	2.17	0.76
3:D:362:ARG:HG2	3:D:626:TYR:OH	1.85	0.76
5:F:435:ILE:O	5:F:439:ILE:HG23	1.86	0.76
2:I:130:MET:HB2	2:I:136:PHE:HE1	1.49	0.76
3:J:16:GLU:HG3	3:J:17:PHE:HD2	1.50	0.76
5:L:138:PRO:HD2	5:L:353:LEU:HD11	1.66	0.76
5:L:448:ARG:HG2	5:L:448:ARG:HH11	1.50	0.76
5:L:453:PRO:HB3	5:L:455:HIS:CE1	2.21	0.76
1:A:61:ILE:HG22	1:A:64:VAL:HG21	1.67	0.76
1:A:162:GLU:CG	1:A:165:GLU:HG2	2.13	0.76
3:D:336:GLY:HA2	3:D:338:PHE:HA	1.68	0.76
2:I:551:HIS:O	2:I:554:HIS:N	2.18	0.76
5:L:269:LEU:O	5:L:273:MET:HG3	1.86	0.76
3:D:598:LYS:HA	3:D:601:ILE:HG22	1.67	0.76
3:D:1181:ASP:OD1	3:D:1182:GLY:N	2.19	0.76
2:I:1295:SER:HB2	3:J:347:VAL:HG23	1.66	0.76
3:J:300:GLN:NE2	3:J:304:ASP:OD2	2.19	0.76
1:A:12:ARG:H	1:A:30:PRO:CD	1.97	0.76
3:D:1280:VAL:CG2	3:D:1304:ARG:HE	1.99	0.76
2:I:358:ASP:OD1	2:I:361:SER:N	2.19	0.76
2:I:1120:ALA:HB2	2:I:1199:LEU:CD2	2.15	0.76
1:B:224:LEU:O	1:B:227:GLN:HB2	1.86	0.75
2:C:884:VAL:HG11	2:C:1050:VAL:HG21	1.66	0.75
2:C:1078:LYS:HG2	2:C:1079:ILE:N	2.01	0.75
3:D:618:VAL:O	3:D:621:ALA:N	2.18	0.75
1:G:85:LEU:HD21	1:G:130:ILE:HG23	1.67	0.75
2:I:39:ILE:CD1	2:I:75:LEU:HG	2.16	0.75
2:I:683:ALA:HA	2:I:686:GLN:HB2	1.66	0.75
2:I:1042:LEU:HB2	2:I:1046:VAL:HG21	1.67	0.75
2:C:481:LEU:HD22	2:C:481:LEU:H	1.50	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:358:GLY:H	3:D:359:PRO:HD3	1.50	0.75
4:E:24:ALA:O	4:E:27:ALA:N	2.17	0.75
5:F:428:SER:O	5:F:431:ALA:N	2.15	0.75
2:I:10:ARG:HH12	2:I:697:LYS:HD3	1.49	0.75
1:A:31:LEU:HB2	1:A:199:ASP:O	1.86	0.75
2:C:1132:LEU:HD22	2:C:1177:ARG:NH2	2.01	0.75
3:D:808:VAL:O	3:D:810:THR:HG22	1.86	0.75
2:I:277:LEU:HD23	2:I:282:VAL:HB	1.68	0.75
5:L:387:VAL:HG22	5:L:435:ILE:CD1	2.17	0.75
1:A:92:VAL:HG11	1:A:98:VAL:HG13	1.68	0.75
1:B:153:VAL:O	1:B:175:ALA:N	2.18	0.75
2:C:389:PHE:O	2:C:419:ILE:HG22	1.85	0.75
2:C:529:ARG:HG2	2:C:530:ILE:H	1.50	0.75
2:C:1210:ILE:HG22	2:C:1211:ARG:O	1.86	0.75
2:C:1280:ALA:CB	3:D:431:ARG:HB3	2.16	0.75
2:C:1305:TYR:HE1	3:D:379:PRO:HG2	1.51	0.75
3:D:220:ARG:O	3:D:224:LEU:HD12	1.86	0.75
1:G:57:THR:HG22	1:G:58:GLU:HG3	1.68	0.75
2:I:1160:ASP:HB2	2:I:1161:LEU:HA	1.67	0.75
3:J:678:ARG:HG3	3:J:679:TYR:N	2.02	0.75
1:A:14:VAL:HG22	1:A:15:ASP:N	1.95	0.75
2:C:516:ASP:HA	2:C:761:GLN:NE2	2.02	0.75
2:C:646:SER:CB	2:C:649:GLN:HG3	2.14	0.75
3:D:18:ASP:HB3	3:D:1369:ARG:NH1	2.01	0.75
5:F:286:LEU:HD23	5:F:340:ALA:HB2	1.67	0.75
1:H:153:VAL:HG11	1:H:158:ARG:NH1	2.00	0.75
3:J:674:THR:HG23	3:J:677:GLU:CD	2.06	0.75
1:A:196:THR:OG1	1:A:197:ASP:N	2.20	0.75
3:D:130:MET:HG3	3:D:131:PRO:HD2	1.68	0.75
3:D:190:LYS:HA	3:D:235:GLU:HG3	1.68	0.75
3:J:264:ASP:HB3	3:J:324:LEU:HB2	1.69	0.75
3:J:303:VAL:O	3:J:306:LEU:N	2.19	0.75
2:C:216:THR:OG1	2:C:219:GLN:N	2.20	0.75
2:C:971:LEU:CD1	2:C:1018:TYR:HB2	2.17	0.75
4:E:71:GLU:O	4:E:75:GLN:HG3	1.87	0.75
1:G:81:ILE:O	1:G:85:LEU:HG	1.86	0.75
3:J:352:ARG:CB	3:J:467:ALA:HA	2.17	0.75
3:J:610:ARG:HG2	3:J:866:GLU:HG2	1.68	0.75
3:J:707:ILE:HD11	3:J:716:GLN:HG2	1.69	0.75
5:L:119:ILE:HA	5:L:122:ARG:HG3	1.67	0.75
3:D:63:GLY:O	3:D:98:ARG:HD2	1.86	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:240:ARG:HD3	5:F:244:THR:CB	2.16	0.75
2:I:182:SER:OG	2:I:199:ASP:OD1	2.04	0.75
2:I:884:VAL:HG11	2:I:1050:VAL:CG2	2.16	0.75
3:J:1221:LEU:HD13	3:J:1222:ARG:N	2.02	0.75
1:B:35:PHE:CA	1:B:38:THR:HG22	2.10	0.75
2:C:448:LEU:HD11	2:C:554:HIS:ND1	2.02	0.75
3:D:98:ARG:NH1	3:D:248:ASP:OD2	2.19	0.75
3:D:812:ASP:O	3:D:896:ALA:N	2.19	0.75
3:D:1262:ARG:HH22	3:D:1312:ALA:HB1	1.51	0.75
2:I:518:ASN:OD1	2:I:518:ASN:N	2.20	0.75
2:I:626:GLU:N	2:I:626:GLU:OE2	2.20	0.75
2:I:854:ILE:HG23	2:I:855:PRO:HD2	1.68	0.75
3:J:134:ASP:O	3:J:138:VAL:HG23	1.87	0.75
3:J:865:HIS:CE1	3:J:868:TRP:H	2.03	0.75
2:C:88:ARG:HB2	2:C:88:ARG:NH1	2.02	0.74
2:C:960:LEU:HA	2:C:963:GLU:HG3	1.67	0.74
3:D:903:LEU:CD2	3:D:909:ILE:HD12	2.17	0.74
1:G:9:LEU:HD22	1:G:32:GLU:HG2	1.69	0.74
1:G:231:PHE:HB3	1:H:218:ARG:HB3	1.69	0.74
2:I:1295:SER:CB	3:J:347:VAL:HG23	2.17	0.74
2:C:122:VAL:HG21	2:C:493:ILE:CG2	2.17	0.74
2:C:1013:GLN:HA	2:C:1016:GLU:OE2	1.86	0.74
3:D:224:LEU:O	3:D:227:PHE:N	2.20	0.74
4:E:7:GLN:NE2	4:E:7:GLN:O	2.21	0.74
5:F:119:ILE:HA	5:F:122:ARG:HG3	1.69	0.74
2:I:59:ILE:HD13	2:I:472:GLU:HG3	1.67	0.74
2:I:1255:THR:O	2:I:1257:GLN:N	2.20	0.74
3:J:146:VAL:HA	3:J:178:ALA:HB2	1.68	0.74
3:J:1146:GLU:HB3	3:J:1148:ARG:HG3	1.67	0.74
1:A:224:LEU:HB3	1:B:228:LEU:HD11	1.67	0.74
2:C:819:SER:HB2	2:C:1085:MET:SD	2.27	0.74
3:D:194:LEU:HD13	3:D:228:VAL:HG22	1.68	0.74
2:I:519:ASN:ND2	2:I:689:ALA:HB3	2.00	0.74
3:J:260:PHE:CB	5:L:504:PRO:HG3	2.16	0.74
3:J:622:ASP:HB3	3:J:626:TYR:CE2	2.22	0.74
3:J:1318:SER:HA	3:J:1342:ASP:OD2	1.86	0.74
3:D:369:PRO:HB3	3:D:444:GLY:O	1.88	0.74
1:H:61:ILE:HB	1:H:64:VAL:O	1.87	0.74
2:I:807:TRP:HE1	2:I:1086:PRO:HG3	1.51	0.74
2:I:1022:LYS:O	2:I:1025:PHE:HB3	1.87	0.74
2:I:1077:SER:CB	3:J:357:VAL:HG23	2.17	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:427:PRO:O	3:J:429:LEU:HD22	1.87	0.74
4:K:13:ILE:HD11	4:K:54:ILE:HG21	1.68	0.74
1:B:41:ASN:O	1:B:45:ARG:HG3	1.88	0.74
2:C:1276:TRP:HD1	8:D:2004:4C4:H32	1.53	0.74
3:D:1162:ILE:HD12	3:D:1163:VAL:H	1.53	0.74
3:D:1352:ILE:HD11	8:D:2004:4C4:H6	1.69	0.74
2:I:815:SER:HB3	3:J:461:PHE:HD1	1.52	0.74
2:I:921:PRO:HB2	2:I:924:VAL:HG22	1.69	0.74
3:J:1159:ILE:HG22	3:J:1177:ILE:CD1	2.17	0.74
1:A:137:ASN:N	1:A:137:ASN:OD1	2.21	0.74
1:B:273:GLU:OE2	1:B:293:PRO:HG2	1.88	0.74
2:C:360:LEU:HD13	2:C:378:ARG:HH21	1.53	0.74
2:C:569:ILE:O	2:C:571:LEU:N	2.21	0.74
1:G:9:LEU:HB3	1:G:32:GLU:CD	2.08	0.74
3:J:116:PHE:HB2	3:J:124:ILE:HD11	1.69	0.74
2:C:788:SER:O	2:C:794:LEU:HD12	1.86	0.74
3:D:88:CYS:O	3:D:90:VAL:N	2.20	0.74
3:D:857:LEU:HD23	3:D:871:LEU:CD2	2.11	0.74
2:I:161:LYS:O	2:I:163:LYS:N	2.21	0.74
3:J:52:GLU:HG2	5:L:451:ARG:NH1	2.02	0.74
3:J:149:GLY:O	3:J:176:PHE:HB2	1.87	0.74
3:J:235:GLU:OE1	3:J:235:GLU:N	2.18	0.74
2:C:1113:LEU:HD11	3:D:641:ILE:CD1	2.17	0.74
3:D:1274:PHE:HE2	3:D:1275:LEU:HD23	1.51	0.74
5:F:390:ILE:HD13	5:F:435:ILE:HG22	1.69	0.74
2:I:3:TYR:CZ	2:I:1158:LYS:HE2	2.23	0.74
2:I:563:THR:HG23	2:I:564:PRO:HD2	1.67	0.74
2:I:726:TYR:HE2	2:I:728:ASP:HB2	1.51	0.74
2:I:930:ASP:OD2	2:I:931:VAL:N	2.21	0.74
3:J:270:ARG:CZ	5:L:449:THR:HG23	2.18	0.74
3:J:583:VAL:HG13	3:J:587:LEU:HD22	1.70	0.74
3:J:697:MET:SD	3:J:741:ALA:HB3	2.28	0.74
2:C:745:GLU:CG	2:C:1017:GLN:HB3	2.17	0.74
3:D:115:TRP:CE2	3:D:1329:THR:HG23	2.23	0.74
3:D:378:LYS:NZ	3:D:382:TYR:OH	2.21	0.74
3:D:1348:LYS:HG3	8:D:2004:4C4:C22	2.17	0.74
2:I:1257:GLN:NE2	2:I:1296:ASP:OD1	2.21	0.74
3:J:127:LEU:O	3:J:220:ARG:NH2	2.20	0.74
1:A:201:LEU:HD12	1:A:202:VAL:N	2.02	0.74
2:C:339:ASN:OD1	2:C:341:LEU:N	2.21	0.74
3:D:573:THR:HG23	3:D:576:ARG:CD	2.18	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:363:ARG:O	5:F:366:SER:N	2.20	0.74
2:I:1319:MET:HG3	2:I:1320:PRO:HD2	1.69	0.74
3:J:152:THR:HG21	3:J:176:PHE:HB3	1.68	0.74
3:J:416:ILE:CD1	3:J:441:LEU:HD21	2.17	0.74
5:L:357:GLN:NE2	5:L:360:ASP:OD2	2.21	0.74
2:I:685:MET:CE	2:I:1071:GLY:HA2	2.18	0.73
2:I:817:LEU:HD22	2:I:818:VAL:N	2.03	0.73
2:I:1103:VAL:HG21	2:I:1112:ILE:HD11	1.70	0.73
3:J:204:GLU:HA	3:J:207:GLU:HB2	1.68	0.73
3:J:869:CYS:O	3:J:873:GLU:N	2.21	0.73
2:C:192:ASP:OD2	2:C:436:ARG:NH2	2.21	0.73
2:C:1276:TRP:CD1	8:D:2004:4C4:H32	2.22	0.73
3:D:290:ILE:HD12	3:D:290:ILE:N	2.02	0.73
3:D:320:ASN:OD1	3:D:322:ARG:HB3	1.89	0.73
1:G:228:LEU:HG	1:H:221:ALA:HB1	1.68	0.73
1:H:52:PRO:HA	1:H:149:GLY:O	1.88	0.73
2:I:688:GLN:HB2	2:I:1235:LEU:HD22	1.70	0.73
2:I:1087:TYR:HE1	2:I:1215:GLY:CA	2.01	0.73
2:I:1280:ALA:HB3	3:J:431:ARG:HB3	1.70	0.73
1:A:45:ARG:HG3	1:A:46:ILE:HD13	1.69	0.73
2:C:130:MET:SD	2:C:134:GLY:HA2	2.28	0.73
2:C:1191:LYS:HD3	2:C:1193:ALA:N	2.03	0.73
3:D:872:LEU:HD22	3:D:877:VAL:HG21	1.68	0.73
2:I:20:GLN:O	2:I:20:GLN:HG3	1.88	0.73
2:I:885:GLY:HA2	2:I:917:SER:HB3	1.68	0.73
1:A:45:ARG:CG	1:B:38:THR:HB	2.19	0.73
3:D:156:ARG:HH12	3:D:157:GLN:NE2	1.81	0.73
3:D:617:THR:O	3:D:620:PHE:HB3	1.89	0.73
3:D:620:PHE:CD2	3:D:624:ILE:HD11	2.23	0.73
5:F:234:THR:CB	5:F:245:ALA:HB1	2.13	0.73
5:F:390:ILE:HD13	5:F:435:ILE:CG2	2.18	0.73
1:H:183:ILE:H	1:H:183:ILE:HD12	1.53	0.73
2:I:111:GLU:OE1	2:I:111:GLU:N	2.21	0.73
5:L:227:GLN:CG	5:L:252:LEU:HA	2.18	0.73
1:A:81:ILE:HA	1:A:84:ASN:ND2	2.00	0.73
1:B:104:LYS:HG2	1:B:110:VAL:HG22	1.71	0.73
5:F:270:VAL:HG12	5:F:274:ARG:CZ	2.18	0.73
1:G:93:GLN:HB2	1:G:120:ASP:OD2	1.89	0.73
2:I:800:MET:CE	2:I:1096:ILE:HD11	2.17	0.73
2:I:1284:ALA:HB1	3:J:1356:LEU:CD2	2.18	0.73
3:J:859:PRO:HG2	3:J:862:THR:HG21	1.69	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:L:552:THR:HG23	5:L:555:GLU:CB	2.18	0.73
2:C:18:ARG:NH1	2:C:620:ASN:HA	2.04	0.73
2:C:1268:GLN:CD	3:D:352:ARG:HD3	2.09	0.73
4:E:15:ASN:C	4:E:17:PHE:H	1.92	0.73
1:G:195:ARG:HG2	1:G:198:LEU:HG	1.71	0.73
2:I:989:LEU:HD13	2:I:1000:LEU:HD12	1.70	0.73
3:J:221:ILE:HA	3:J:224:LEU:HB2	1.69	0.73
3:J:418:GLU:HG3	4:K:45:LYS:H	1.54	0.73
3:J:634:ARG:HB3	3:J:634:ARG:CZ	2.16	0.73
3:J:1262:ARG:HG3	3:J:1281:GLU:OE2	1.87	0.73
5:L:117:ILE:O	5:L:120:ALA:N	2.22	0.73
1:A:49:SER:OG	1:A:50:SER:N	2.22	0.73
1:B:111:THR:HB	1:B:126:PRO:O	1.89	0.73
2:C:531:SER:OG	2:C:533:LEU:HB2	1.89	0.73
2:C:1132:LEU:HD13	2:C:1177:ARG:CZ	2.18	0.73
2:C:1202:GLY:O	2:C:1203:ASP:HB2	1.87	0.73
2:C:1312:ASN:OD1	2:C:1314:GLN:HG3	1.88	0.73
3:D:525:MET:O	3:D:548:VAL:HG13	1.89	0.73
3:D:1280:VAL:HG21	3:D:1304:ARG:NE	2.02	0.73
5:F:514:ASP:OD2	5:F:517:SER:OG	2.06	0.73
5:F:532:LEU:O	5:F:536:THR:HG23	1.88	0.73
1:G:88:LEU:HD12	1:G:89:ALA:H	1.53	0.73
1:H:57:THR:HG22	1:H:58:GLU:OE1	1.88	0.73
2:I:229:ILE:HB	2:I:240:GLU:HB2	1.68	0.73
2:I:811:ASN:O	2:I:1099:ASN:ND2	2.22	0.73
2:I:1066:MET:CE	2:I:1076:ILE:HD12	2.19	0.73
2:I:1130:ALA:O	2:I:1134:GLN:N	2.16	0.73
5:L:412:LEU:N	5:L:435:ILE:HG12	2.04	0.73
5:L:471:LEU:CD2	5:L:478:PRO:HD3	2.18	0.73
2:C:396:ASP:HA	2:C:418:GLY:O	1.89	0.73
2:C:403:MET:HE3	2:C:404:LYS:N	2.04	0.73
2:C:557:ARG:HH21	2:C:608:ALA:CA	2.00	0.73
3:D:507:VAL:HG11	3:D:598:LYS:HB2	1.69	0.73
5:F:525:ASP:CG	5:F:528:LEU:HG	2.08	0.73
1:G:166:ARG:O	1:G:168:ILE:N	2.21	0.73
2:I:817:LEU:HD21	2:I:1080:ASN:HD22	1.54	0.73
2:I:1285:TYR:CD1	3:J:1361:THR:HG21	2.24	0.73
3:J:682:VAL:O	3:J:685:ILE:HG12	1.88	0.73
3:J:702:GLN:HA	3:J:723:TYR:HE2	1.54	0.73
5:L:270:VAL:HA	5:L:273:MET:CE	2.19	0.73
2:C:495:ALA:HB3	5:F:471:LEU:HD13	1.69	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:670:PHE:CD2	2:C:1113:LEU:HB3	2.23	0.73
3:D:193:ASP:HB3	3:D:196:GLN:CG	2.19	0.73
3:D:1252:HIS:O	3:D:1255:VAL:HG13	1.89	0.73
1:G:134:THR:HG23	2:I:726:TYR:CE1	2.24	0.73
1:G:228:LEU:CG	1:H:221:ALA:HB1	2.18	0.73
1:H:37:HIS:CD2	2:I:1216:ARG:HD2	2.22	0.73
2:I:59:ILE:CG2	2:I:475:VAL:HG11	2.16	0.73
2:I:61:SER:OG	2:I:66:SER:N	2.17	0.73
2:I:146:VAL:CG1	2:I:529:ARG:HB3	2.19	0.73
2:I:582:ASN:HB3	2:I:586:PHE:H	1.54	0.73
1:B:100:LEU:O	1:B:144:ILE:HG22	1.89	0.73
2:C:179:TYR:OH	2:C:462:ASN:ND2	2.20	0.73
2:C:593:LYS:HA	2:C:652:TYR:CD2	2.24	0.73
2:C:1060:ILE:HG13	2:C:1061:GLN:H	1.54	0.73
2:C:1287:LEU:HD23	2:C:1288:GLN:N	2.03	0.73
3:D:35:PHE:CD1	3:D:101:ARG:HD3	2.23	0.73
3:D:223:LEU:O	3:D:226:ALA:HB3	1.89	0.73
3:D:282:LEU:CD2	5:F:410:ILE:HD11	2.17	0.73
3:D:1162:ILE:O	3:D:1178:THR:N	2.22	0.73
3:D:1283:SER:O	3:D:1286:LYS:N	2.21	0.73
5:F:106:GLY:O	5:F:108:VAL:N	2.22	0.73
5:F:137:TYR:CD2	5:F:140:ALA:HB2	2.24	0.73
2:I:660:VAL:HG22	2:I:661:VAL:CG1	2.18	0.73
3:J:412:LEU:O	3:J:415:VAL:HG22	1.88	0.73
3:J:425:ARG:HG2	3:J:426:ALA:N	2.03	0.73
2:C:49:LEU:HD12	2:C:73:TYR:CZ	2.24	0.72
2:C:763:THR:OG1	2:C:764:CYS:N	2.15	0.72
2:C:930:ASP:OD2	2:C:931:VAL:N	2.22	0.72
5:F:525:ASP:OD1	5:F:527:THR:N	2.21	0.72
1:G:48:LEU:HD23	1:G:180:VAL:HB	1.71	0.72
3:J:339:ARG:HB3	3:J:340:GLN:CG	2.19	0.72
5:L:387:VAL:HG11	5:L:408:GLY:HA3	1.70	0.72
2:C:5:TYR:O	2:C:8:LYS:HG2	1.89	0.72
3:D:527:LEU:HD23	3:D:536:LEU:HD23	1.70	0.72
3:D:825:VAL:CG1	3:D:833:GLU:HB3	2.18	0.72
3:D:1282:TYR:HB3	3:D:1286:LYS:NZ	2.03	0.72
2:I:169:LYS:O	2:I:170:VAL:HG22	1.87	0.72
2:I:385:PHE:CE2	2:I:390:PHE:HE2	2.06	0.72
2:I:460:ALA:O	2:I:463:GLN:N	2.21	0.72
2:I:629:PHE:CE2	2:I:650:VAL:HG21	2.24	0.72
3:J:514:THR:HG21	3:J:596:LEU:CB	2.18	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:257:VAL:HG11	1:B:270:LEU:HD13	1.71	0.72
2:C:88:ARG:HB2	2:C:88:ARG:HH11	1.54	0.72
2:C:593:LYS:HG2	2:C:602:GLU:OE2	1.87	0.72
5:F:399:LEU:HD12	5:F:400:GLN:H	1.54	0.72
1:G:231:PHE:HB3	1:H:218:ARG:CB	2.20	0.72
2:I:390:PHE:HA	2:I:419:ILE:CG2	2.19	0.72
2:I:490:GLN:HE21	5:L:472:GLN:HB2	1.53	0.72
2:I:1287:LEU:HD23	2:I:1288:GLN:N	2.03	0.72
3:J:21:LYS:NZ	3:J:23:ALA:HB2	2.04	0.72
1:A:207:THR:HG22	1:A:209:GLY:N	2.02	0.72
2:C:941:LYS:NZ	2:C:949:GLU:OE2	2.18	0.72
2:C:1191:LYS:CD	2:C:1193:ALA:H	2.01	0.72
3:D:199:GLU:HA	3:D:202:ARG:HD2	1.71	0.72
3:D:361:LEU:HD23	3:D:365:GLN:HG3	1.70	0.72
3:D:473:THR:OG1	3:D:475:GLU:HB2	1.89	0.72
4:E:6:VAL:CG2	4:E:10:VAL:HG23	2.19	0.72
2:I:15:PHE:CE1	2:I:1194:GLU:HB3	2.23	0.72
2:I:1062:PRO:HA	2:I:1076:ILE:CG2	2.19	0.72
5:L:507:MET:O	5:L:519:LEU:HB3	1.90	0.72
2:C:59:ILE:CG2	2:C:475:VAL:HG11	2.18	0.72
2:C:1293:VAL:HG11	2:C:1304:MET:CB	2.18	0.72
3:D:258:GLY:O	5:F:499:LYS:HE3	1.90	0.72
3:D:826:ILE:HD12	3:D:826:ILE:O	1.89	0.72
4:E:68:GLU:O	4:E:71:GLU:N	2.22	0.72
3:J:275:ARG:NH1	3:J:301:GLU:OE1	2.19	0.72
3:J:826:ILE:HA	3:J:831:VAL:CA	2.19	0.72
4:K:44:ASP:HB2	4:K:49:ILE:HG13	1.71	0.72
5:L:596:ARG:HA	5:L:596:ARG:NE	2.03	0.72
1:A:43:LEU:HD13	1:A:203:ILE:HD11	1.72	0.72
2:C:1142:ARG:HD3	2:C:1161:LEU:HD13	1.70	0.72
2:C:1155:VAL:HG12	2:C:1156:ARG:H	1.55	0.72
3:D:836:ARG:NE	3:D:869:CYS:HB3	2.01	0.72
3:D:1282:TYR:HB3	3:D:1286:LYS:CE	2.19	0.72
5:F:494:ILE:HG22	5:F:498:LEU:HD21	1.72	0.72
2:I:4:SER:O	2:I:8:LYS:HB3	1.89	0.72
2:I:237:LEU:HG	2:I:292:ILE:HD11	1.70	0.72
2:I:557:ARG:HH21	2:I:608:ALA:HA	1.53	0.72
2:I:901:LEU:HA	5:L:563:PHE:CE2	2.23	0.72
3:J:317:THR:HG23	3:J:320:ASN:HB3	1.70	0.72
3:J:510:LEU:HD23	3:J:601:ILE:CD1	2.06	0.72
3:J:858:VAL:HG11	3:J:872:LEU:HD11	1.71	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:L:419:PHE:CZ	5:L:427:PHE:HB2	2.24	0.72
1:A:223:ILE:HD11	1:B:8:PHE:CE2	2.23	0.72
1:B:179:PRO:O	1:B:208:ASN:N	2.20	0.72
3:D:54:ASP:OD1	3:D:54:ASP:N	2.20	0.72
3:D:111:THR:HG21	3:D:303:VAL:HG21	1.70	0.72
5:F:235:ILE:HA	5:F:242:HIS:CE1	2.23	0.72
3:J:799:ARG:O	3:J:802:ASP:HB2	1.87	0.72
1:B:136:GLU:CG	1:B:137:ASN:H	2.00	0.72
2:C:4:SER:HB3	2:C:7:GLU:CD	2.10	0.72
2:C:145:ILE:HD11	2:C:512:SER:CB	2.19	0.72
2:C:557:ARG:HG2	2:C:587:LEU:HB3	1.71	0.72
2:C:802:VAL:HG23	2:C:1096:ILE:O	1.89	0.72
3:D:423:LEU:CD1	3:D:468:VAL:HG12	2.18	0.72
3:D:803:VAL:HG23	3:D:1313:SER:HA	1.71	0.72
3:D:842:ARG:CB	3:D:882:VAL:HG11	2.19	0.72
1:G:195:ARG:HG3	1:G:198:LEU:HG	1.70	0.72
3:J:514:THR:CG2	3:J:596:LEU:HB2	2.19	0.72
5:L:466:ILE:HD12	5:L:487:MET:CE	2.20	0.72
2:C:46:GLN:HG3	2:C:47:TYR:O	1.89	0.72
2:C:486:THR:HG23	2:C:487:LEU:N	2.05	0.72
2:C:517:GLN:NE2	2:C:759:SER:HA	2.04	0.72
3:D:245:LEU:CD2	3:D:249:LEU:HD12	2.19	0.72
3:D:390:LEU:HD21	3:D:407:VAL:HG11	1.69	0.72
3:D:1273:ASP:HB2	3:D:1276:GLU:OE1	1.89	0.72
5:F:532:LEU:H	5:F:532:LEU:HD12	1.54	0.72
1:G:218:ARG:HD3	1:H:233:ASP:N	2.05	0.72
2:I:339:ASN:OD1	2:I:341:LEU:N	2.22	0.72
2:I:1078:LYS:HG2	2:I:1079:ILE:H	1.54	0.72
5:L:129:GLN:O	5:L:133:SER:N	2.23	0.72
1:B:215:GLU:O	1:B:217:ILE:N	2.23	0.72
3:D:573:THR:HG23	3:D:576:ARG:HD2	1.72	0.72
3:D:1155:ILE:HD12	3:D:1155:ILE:H	1.55	0.72
5:F:383:ASN:HB2	5:F:412:LEU:HD21	1.72	0.72
1:G:45:ARG:HH22	2:I:1216:ARG:HA	1.53	0.72
2:I:4:SER:OG	2:I:5:TYR:N	2.23	0.72
2:I:1078:LYS:HG2	2:I:1079:ILE:N	2.04	0.72
3:J:748:ALA:HA	3:J:754:ILE:HA	1.71	0.72
3:J:902:ASP:O	3:J:903:LEU:HD13	1.89	0.72
1:B:9:LEU:HD23	1:B:10:LYS:H	1.55	0.71
1:B:63:GLY:HA3	1:B:71:LYS:HE3	1.71	0.71
2:C:253:PHE:CE1	2:C:255:ILE:HG12	2.25	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:593:LYS:HB3	2:C:602:GLU:HG3	1.69	0.71
4:E:15:ASN:O	4:E:17:PHE:N	2.22	0.71
2:I:818:VAL:O	2:I:1079:ILE:HD12	1.90	0.71
2:I:1116:HIS:O	2:I:1119:MET:HB3	1.90	0.71
3:J:1222:ARG:HG2	3:J:1223:LEU:HD22	1.72	0.71
5:L:270:VAL:HA	5:L:273:MET:HE3	1.71	0.71
3:D:302:ALA:O	3:D:305:ALA:HB3	1.90	0.71
3:D:823:THR:C	3:D:835:LEU:HD13	2.10	0.71
3:D:848:VAL:HG12	3:D:858:VAL:HG13	1.69	0.71
5:F:137:TYR:CZ	5:F:139:GLU:HB2	2.24	0.71
2:I:956:ALA:HA	2:I:959:ASP:OD2	1.90	0.71
2:I:1305:TYR:CE1	3:J:379:PRO:HG3	2.25	0.71
3:J:74:LYS:HD2	3:J:87:LYS:NZ	2.04	0.71
3:J:190:LYS:CD	3:J:235:GLU:HG2	2.20	0.71
3:J:580:TRP:HA	3:J:583:VAL:CG2	2.20	0.71
3:J:1343:GLU:HG3	3:J:1373:ARG:NH2	2.05	0.71
1:B:16:ILE:CA	1:B:26:VAL:HG13	2.21	0.71
2:C:74:ARG:HB3	2:C:74:ARG:NH1	2.05	0.71
3:D:697:MET:SD	3:D:741:ALA:HB3	2.31	0.71
3:D:1155:ILE:O	3:D:1156:LEU:HD13	1.91	0.71
5:F:147:GLN:HE22	5:F:150:ARG:NH1	1.87	0.71
1:G:195:ARG:HD2	1:G:196:THR:N	2.04	0.71
1:H:9:LEU:HD23	1:H:10:LYS:N	2.05	0.71
5:L:383:ASN:O	5:L:386:LEU:HB2	1.89	0.71
5:L:546:ASP:OD2	5:L:603:ARG:NH2	2.22	0.71
1:A:152:TYR:CE1	2:C:824:GLN:HG2	2.25	0.71
1:B:182:ARG:HG2	1:B:183:ILE:N	2.04	0.71
2:C:95:PRO:HA	2:C:126:GLU:HG2	1.73	0.71
2:C:178:PRO:HB3	2:C:395:TYR:CZ	2.24	0.71
2:C:1018:TYR:HE2	2:C:1022:LYS:HD3	1.56	0.71
3:D:45:ASN:O	3:D:46:TYR:HB3	1.88	0.71
3:D:140:TYR:OH	3:D:312:ARG:NH1	2.23	0.71
5:F:124:GLU:HA	5:F:127:ILE:HG12	1.71	0.71
2:I:49:LEU:O	2:I:52:ALA:N	2.23	0.71
2:I:738:GLU:HG2	2:I:741:MET:HE3	1.72	0.71
3:J:808:VAL:O	3:J:810:THR:HG22	1.89	0.71
3:J:1158:GLU:O	3:J:1206:ARG:NH1	2.23	0.71
3:J:1170:LYS:C	3:J:1172:LYS:H	1.92	0.71
1:A:43:LEU:HD13	1:A:203:ILE:CD1	2.20	0.71
2:C:189:ASP:OD1	2:C:193:ASN:N	2.23	0.71
2:C:816:ILE:O	2:C:1077:SER:N	2.24	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:279:LEU:HD12	3:D:295:GLU:CG	2.20	0.71
3:D:426:ALA:CB	3:D:427:PRO:HD3	2.20	0.71
3:D:1323:ALA:HB2	3:D:1331:VAL:HG11	1.70	0.71
5:F:297:MET:HE1	5:F:330:LEU:HD21	1.72	0.71
5:F:421:TYR:C	5:F:423:ARG:H	1.93	0.71
2:I:839:VAL:HG12	2:I:1049:ILE:CD1	2.20	0.71
2:I:933:VAL:CG2	2:I:1050:VAL:HG12	2.20	0.71
3:J:1221:LEU:HD11	3:J:1304:ARG:O	1.90	0.71
5:L:387:VAL:HA	5:L:390:ILE:CD1	2.19	0.71
1:A:38:THR:OG1	1:B:45:ARG:NH1	2.23	0.71
1:A:135:ASP:O	1:A:137:ASN:N	2.23	0.71
1:A:224:LEU:HD12	1:A:228:LEU:HD12	1.71	0.71
1:B:268:ASN:O	1:B:272:ALA:N	2.17	0.71
2:C:582:ASN:HB3	2:C:585:GLY:N	2.05	0.71
4:E:32:VAL:O	4:E:34:GLY:N	2.23	0.71
1:H:32:GLU:HB2	1:H:35:PHE:CE2	2.25	0.71
2:I:990:ASP:HA	2:I:997:TRP:HZ2	1.52	0.71
3:J:744:ARG:HG3	3:J:744:ARG:O	1.91	0.71
2:C:854:ILE:HG22	2:C:855:PRO:HD2	1.70	0.71
3:D:1135:THR:OG1	3:D:1136:GLY:N	2.21	0.71
3:D:1262:ARG:HG3	3:D:1281:GLU:OE1	1.90	0.71
2:I:303:ASP:HB3	2:I:306:THR:OG1	1.90	0.71
2:I:1293:VAL:HG13	2:I:1301:ARG:HA	1.71	0.71
3:J:527:LEU:H	3:J:550:VAL:CG1	2.02	0.71
3:J:604:MET:O	3:J:607:THR:OG1	2.08	0.71
5:L:245:ALA:O	5:L:249:ILE:HG13	1.91	0.71
1:A:59:VAL:HG21	1:A:85:LEU:HD12	1.72	0.71
2:C:521:LEU:HD13	2:C:525:THR:HB	1.73	0.71
2:C:1142:ARG:HH22	2:C:1165:SER:CA	2.02	0.71
3:D:872:LEU:CD2	3:D:877:VAL:HG11	2.20	0.71
1:H:153:VAL:HG11	1:H:158:ARG:CZ	2.21	0.71
2:I:806:PRO:HD3	2:I:1100:PRO:CG	2.20	0.71
2:I:839:VAL:HA	2:I:1049:ILE:HG12	1.72	0.71
3:J:42:GLU:HG2	5:L:451:ARG:CD	2.19	0.71
3:J:872:LEU:CD2	3:J:877:VAL:HG11	2.20	0.71
5:L:234:THR:HB	5:L:245:ALA:HB1	1.72	0.71
2:C:1328:LYS:O	3:D:245:LEU:HD12	1.90	0.71
3:D:200:GLN:HA	3:D:203:GLU:OE2	1.90	0.71
3:D:268:LEU:HB3	3:D:306:LEU:HD23	1.71	0.71
3:D:317:THR:HA	3:D:324:LEU:CD2	2.20	0.71
3:D:519:ASN:OD1	3:D:709:ARG:HD3	1.90	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:847:ASP:N	3:D:847:ASP:OD1	2.23	0.71
2:I:359:ARG:CG	2:I:363:LEU:HD12	2.20	0.71
2:I:563:THR:HG23	2:I:564:PRO:CD	2.21	0.71
3:J:21:LYS:HZ2	3:J:23:ALA:HB2	1.55	0.71
3:J:189:LEU:O	3:J:192:MET:HG2	1.90	0.71
3:J:430:HIS:CE1	3:J:925:GLU:HG3	2.26	0.71
3:J:622:ASP:HB3	3:J:626:TYR:HE2	1.55	0.71
3:J:1262:ARG:CZ	3:J:1262:ARG:HB3	2.21	0.71
4:K:40:PRO:HB2	4:K:42:GLU:OE2	1.91	0.71
5:L:561:MET:HG2	5:L:571:TYR:HB2	1.72	0.71
1:A:18:GLN:HA	1:A:24:ALA:HB1	1.73	0.71
1:B:101:THR:H	1:B:116:THR:HG21	1.55	0.71
2:C:673:HIS:O	2:C:1109:ILE:HG22	1.90	0.71
2:C:903:ARG:O	2:C:907:GLY:N	2.19	0.71
2:C:1336:ASN:HD22	3:D:29:MET:CE	2.03	0.71
3:D:37:GLU:HB2	3:D:104:HIS:CE1	2.25	0.71
3:D:185:ILE:HG22	3:D:189:LEU:HD11	1.73	0.71
3:D:368:LEU:HD22	3:D:373:ALA:HB2	1.72	0.71
3:D:800:LEU:O	3:D:803:VAL:N	2.18	0.71
5:F:390:ILE:O	5:F:393:LYS:HB2	1.91	0.71
5:F:608:ARG:CZ	5:F:609:SER:HA	2.21	0.71
2:I:12:ARG:NH2	2:I:698:PRO:O	2.21	0.71
1:B:41:ASN:ND2	2:C:1217:THR:HA	2.05	0.70
1:B:289:LEU:HB3	1:B:300:LEU:HD23	1.73	0.70
2:C:117:ILE:HD12	2:C:488:MET:HG2	1.73	0.70
3:D:72:CYS:N	3:D:88:CYS:SG	2.62	0.70
3:D:510:LEU:HD23	3:D:601:ILE:CD1	2.20	0.70
1:H:18:GLN:HB3	1:H:24:ALA:HB2	1.72	0.70
2:I:461:GLU:O	2:I:464:PHE:HB3	1.91	0.70
2:I:517:GLN:HE21	2:I:759:SER:HB2	1.56	0.70
2:I:838:CYS:SG	2:I:886:LYS:HD3	2.31	0.70
2:I:849:GLU:CB	2:I:851:THR:HG22	2.21	0.70
3:J:702:GLN:HA	3:J:723:TYR:CE2	2.26	0.70
2:C:57:PHE:CD1	2:C:70:TYR:HB2	2.24	0.70
3:D:230:SER:OG	3:D:232:ASN:N	2.20	0.70
3:D:289:ASP:N	3:D:289:ASP:OD1	2.22	0.70
1:G:104:LYS:HG2	1:G:110:VAL:HG22	1.73	0.70
1:H:59:VAL:O	1:H:171:LEU:HB2	1.90	0.70
1:H:180:VAL:HG12	1:H:205:MET:SD	2.31	0.70
2:I:1211:ARG:CB	2:I:1220:GLN:HE21	2.03	0.70
2:I:1285:TYR:CE2	3:J:475:GLU:HG2	2.26	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:497:GLU:HB3	3:J:498:PRO:CD	2.20	0.70
3:J:642:ASP:HA	3:J:764:ARG:NH2	2.06	0.70
3:J:720:ASN:HD21	3:J:722:ILE:HG22	1.56	0.70
3:J:826:ILE:CA	3:J:831:VAL:HA	2.21	0.70
3:J:872:LEU:O	3:J:877:VAL:HG12	1.91	0.70
3:J:1157:ALA:HB3	3:J:1207:GLY:N	2.06	0.70
5:L:367:ILE:HD13	5:L:367:ILE:N	2.06	0.70
1:B:16:ILE:HA	1:B:26:VAL:HG13	1.72	0.70
2:C:726:TYR:HE2	2:C:728:ASP:HB2	1.56	0.70
2:C:836:LEU:HD21	2:C:921:PRO:HG2	1.72	0.70
2:C:1149:TYR:CD1	2:C:1159:VAL:HG11	2.24	0.70
2:C:1234:LYS:HE2	2:C:1238:LEU:HD23	1.72	0.70
3:D:1280:VAL:CG2	3:D:1284:ARG:HE	2.03	0.70
5:F:466:ILE:O	5:F:470:MET:N	2.22	0.70
1:G:14:VAL:HG13	1:G:15:ASP:H	1.55	0.70
1:H:9:LEU:HB3	1:H:32:GLU:HG2	1.71	0.70
2:I:216:THR:N	2:I:219:GLN:OE1	2.24	0.70
2:I:1160:ASP:CB	2:I:1162:SER:H	1.97	0.70
2:I:1293:VAL:CG1	2:I:1301:ARG:HA	2.20	0.70
3:J:414:GLU:O	4:K:45:LYS:NZ	2.22	0.70
3:J:476:ALA:O	3:J:480:ALA:N	2.19	0.70
1:B:307:LEU:HD23	1:B:314:LEU:HB2	1.73	0.70
2:C:516:ASP:O	2:C:522:SER:OG	2.08	0.70
2:C:1164:PHE:O	2:C:1166:ASP:N	2.23	0.70
3:D:415:VAL:HG23	3:D:416:ILE:HD13	1.72	0.70
3:D:1183:SER:C	3:D:1185:PRO:HD3	2.11	0.70
5:F:267:ASP:OD1	5:F:267:ASP:N	2.25	0.70
3:J:452:LEU:HD11	3:J:625:MET:HB2	1.73	0.70
3:J:505:ASP:HB3	3:J:629:PHE:HE1	1.56	0.70
5:L:432:THR:O	5:L:436:ARG:N	2.23	0.70
2:C:1312:ASN:HD21	2:C:1314:GLN:NE2	1.78	0.70
3:D:279:LEU:HB2	3:D:295:GLU:HG2	1.72	0.70
3:D:514:THR:HB	3:D:596:LEU:HD23	1.74	0.70
3:D:803:VAL:HG11	3:D:1309:ILE:HG22	1.72	0.70
1:G:35:PHE:O	1:G:39:LEU:HG	1.91	0.70
2:I:738:GLU:HG2	2:I:741:MET:CE	2.20	0.70
2:I:901:LEU:HG	2:I:905:ILE:HD11	1.72	0.70
2:I:1035:LYS:HA	2:I:1038:GLN:OE1	1.90	0.70
3:J:270:ARG:O	3:J:274:ASN:ND2	2.19	0.70
3:J:352:ARG:HB2	3:J:466:MET:O	1.92	0.70
1:A:145:LYS:NZ	1:A:147:GLN:OE1	2.24	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:92:TYR:CE2	2:C:129:LEU:HB2	2.27	0.70
2:C:555:TYR:OH	2:C:654:ASP:OD1	2.09	0.70
3:D:185:ILE:O	3:D:189:LEU:HG	1.91	0.70
3:D:382:TYR:CE1	3:D:401:VAL:HG21	2.25	0.70
2:I:673:HIS:HB3	2:I:1109:ILE:CG2	2.22	0.70
3:J:294:ASN:HB2	5:L:101:TYR:HD1	1.56	0.70
1:B:286:GLU:HA	1:B:289:LEU:HD12	1.73	0.70
2:C:618:GLN:HG3	3:D:770:LEU:HD21	1.74	0.70
2:C:698:PRO:HB3	2:C:1231:TYR:CE2	2.26	0.70
2:C:878:THR:HA	2:C:925:SER:HB3	1.73	0.70
2:C:1143:GLU:OE1	2:C:1147:ARG:HD3	1.90	0.70
3:D:183:GLU:O	3:D:187:ALA:N	2.17	0.70
3:D:813:ASP:HB2	3:D:897:HIS:ND1	2.06	0.70
3:D:824:PRO:HB3	3:D:835:LEU:HB2	1.74	0.70
4:E:86:ILE:HG22	4:E:89:GLY:H	1.57	0.70
1:G:190:ALA:HB2	1:G:200:LYS:CB	2.21	0.70
1:G:228:LEU:CD1	1:H:221:ALA:HB1	2.21	0.70
1:H:61:ILE:HG23	1:H:142:MET:HE2	1.73	0.70
2:I:522:SER:HB2	2:I:687:ARG:HB3	1.74	0.70
3:D:311:ARG:NH2	3:D:1329:THR:HG21	2.06	0.70
3:D:1176:VAL:HG22	3:D:1187:GLU:HB3	1.74	0.70
3:D:1257:VAL:HA	3:D:1260:MET:HG3	1.74	0.70
5:F:438:ALA:O	5:F:442:SER:N	2.24	0.70
2:I:475:VAL:HG12	2:I:476:LYS:N	2.06	0.70
2:I:1119:MET:HB2	2:I:1228:GLY:HA2	1.74	0.70
2:I:1247:SER:HB3	3:J:375:GLU:O	1.92	0.70
2:I:1274:GLU:HA	3:J:428:THR:HG21	1.72	0.70
4:K:66:VAL:HA	4:K:69:ARG:NH2	2.06	0.70
5:L:525:ASP:OD1	5:L:527:THR:HG22	1.92	0.70
1:A:12:ARG:O	1:A:30:PRO:HD3	1.91	0.70
1:A:152:TYR:CE1	2:C:824:GLN:HA	2.21	0.70
2:C:115:LYS:HE2	2:C:116:ASP:O	1.91	0.70
2:C:285:ILE:HD11	2:C:287:VAL:HG12	1.74	0.70
2:C:745:GLU:CB	2:C:1017:GLN:HB3	2.21	0.70
2:C:812:PHE:CD2	3:D:451:PRO:HB3	2.26	0.70
2:C:1105:SER:HB2	3:D:731:ARG:HG2	1.74	0.70
3:D:326:SER:O	3:D:329:ASP:N	2.23	0.70
3:D:1183:SER:N	3:J:206:ASN:HD21	1.90	0.70
1:H:30:PRO:C	1:H:31:LEU:HD22	2.12	0.70
2:I:347:ILE:O	2:I:350:THR:N	2.24	0.70
3:J:705:THR:OG1	3:J:718:SER:HA	1.92	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:740:LEU:O	3:J:764:ARG:HB2	1.92	0.70
1:A:73:GLY:O	1:A:134:THR:HG22	1.90	0.70
1:B:151:GLY:H	1:B:177:TYR:HB2	1.57	0.70
2:C:363:LEU:HD22	2:C:382:GLU:HA	1.74	0.70
2:C:500:ALA:O	2:C:504:GLU:N	2.21	0.70
2:C:732:ILE:HG21	2:C:783:LEU:CD1	2.22	0.70
3:D:795:TYR:HE2	3:D:799:ARG:HD3	1.56	0.70
3:D:854:ALA:HB2	3:J:1372:ARG:HG3	1.72	0.70
3:D:872:LEU:HD22	3:D:877:VAL:CG1	2.19	0.70
3:D:872:LEU:O	3:D:877:VAL:HG12	1.92	0.70
4:E:31:GLN:O	4:E:33:GLY:N	2.25	0.70
2:I:105:TYR:HA	2:I:112:GLY:O	1.91	0.70
2:I:1042:LEU:HB2	2:I:1046:VAL:CG2	2.21	0.70
2:C:227:LYS:NZ	2:C:298:ALA:HB1	2.07	0.69
2:C:269:ILE:HD12	2:C:269:ILE:H	1.56	0.69
2:C:420:LEU:HD23	2:C:420:LEU:N	2.07	0.69
2:C:1246:ARG:HD2	2:C:1265:PHE:O	1.91	0.69
2:C:1325:VAL:O	2:C:1328:LYS:N	2.25	0.69
3:D:172:PHE:CD2	3:D:172:PHE:N	2.58	0.69
3:D:528:THR:HG23	3:D:532:GLU:HB3	1.74	0.69
3:D:836:ARG:HE	3:D:869:CYS:CB	2.01	0.69
3:D:1274:PHE:CE2	3:D:1275:LEU:HD23	2.27	0.69
4:E:67:ARG:NH1	4:E:71:GLU:OE2	2.25	0.69
1:G:12:ARG:HG3	1:H:230:ALA:CB	2.23	0.69
1:G:151:GLY:O	1:G:177:TYR:N	2.25	0.69
3:J:26:SER:HG	3:J:29:MET:H	1.39	0.69
3:J:235:GLU:H	3:J:235:GLU:CD	1.96	0.69
3:J:931:THR:HB	3:J:1137:GLY:HA2	1.73	0.69
5:L:406:GLN:HA	5:L:406:GLN:NE2	1.97	0.69
5:L:436:ARG:O	5:L:440:THR:HG22	1.92	0.69
1:B:94:GLY:HA2	1:B:277:TYR:CZ	2.27	0.69
2:C:679:ALA:O	2:C:683:ALA:N	2.24	0.69
3:D:108:ALA:HB1	3:D:279:LEU:HD22	1.73	0.69
2:I:615:VAL:HG21	2:I:645:PHE:CD2	2.26	0.69
2:I:667:LEU:HD21	2:I:704:MET:HB2	1.74	0.69
3:J:45:ASN:HB3	3:J:48:THR:O	1.92	0.69
3:J:699:ASP:HA	3:J:702:GLN:NE2	2.05	0.69
1:A:107:ILE:HD11	1:A:136:GLU:N	2.06	0.69
1:A:165:GLU:C	1:A:167:PRO:HD2	2.12	0.69
1:A:191:ARG:HH12	1:A:198:LEU:N	1.89	0.69
1:B:37:HIS:HA	1:B:185:TYR:HE1	1.57	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:675:ASP:HB2	3:D:763:PHE:CZ	2.27	0.69
2:C:1257:GLN:HB3	2:C:1258:PRO:HD2	1.72	0.69
3:J:514:THR:O	3:J:514:THR:OG1	2.07	0.69
3:J:572:THR:HG23	3:J:573:THR:N	2.07	0.69
3:J:620:PHE:CE1	3:J:624:ILE:HD11	2.27	0.69
5:L:231:THR:O	5:L:234:THR:OG1	2.09	0.69
2:C:819:SER:OG	2:C:821:ARG:HB3	1.93	0.69
3:D:172:PHE:N	3:D:172:PHE:HD2	1.90	0.69
3:D:382:TYR:HE1	3:D:401:VAL:CG2	2.04	0.69
3:D:776:THR:HG22	3:D:777:HIS:N	2.07	0.69
5:F:540:LEU:CD1	5:F:607:LEU:HD22	2.21	0.69
5:F:561:MET:O	5:F:571:TYR:HB2	1.92	0.69
2:I:27:LEU:O	2:I:528:ARG:NH1	2.25	0.69
2:I:736:VAL:HG23	2:I:748:ILE:HG22	1.74	0.69
3:J:520:ALA:CB	3:J:546:ALA:HB2	2.17	0.69
3:J:847:ASP:OD2	3:J:860:ARG:HG2	1.93	0.69
5:L:227:GLN:HG3	5:L:252:LEU:HA	1.74	0.69
1:B:76:GLU:HA	1:B:80:GLU:HG2	1.73	0.69
1:B:278:ILE:O	1:B:280:ASP:N	2.22	0.69
1:B:289:LEU:HD23	1:B:295:LEU:HD11	1.74	0.69
2:C:490:GLN:NE2	5:F:472:GLN:HB3	2.08	0.69
2:C:1160:ASP:CG	2:C:1161:LEU:HA	2.13	0.69
3:D:795:TYR:HA	3:D:798:ARG:NH1	2.06	0.69
5:F:394:TYR:OH	5:F:436:ARG:NH1	2.24	0.69
1:G:187:VAL:HG12	1:G:201:LEU:HD22	1.74	0.69
1:H:11:PRO:HG3	1:H:31:LEU:HD11	1.74	0.69
2:I:734:ILE:O	2:I:748:ILE:HB	1.92	0.69
2:I:942:ASP:O	2:I:946:LEU:HD12	1.92	0.69
2:I:1312:ASN:OD1	2:I:1314:GLN:HG3	1.92	0.69
3:J:356:THR:CG2	3:J:446:ALA:HB1	2.22	0.69
1:A:191:ARG:NH1	1:A:198:LEU:H	1.89	0.69
2:C:1062:PRO:N	2:C:1076:ILE:HD11	2.07	0.69
3:D:475:GLU:OE1	3:D:475:GLU:N	2.22	0.69
3:D:814:CYS:H	3:D:895:CYS:CB	2.06	0.69
5:F:129:GLN:O	5:F:133:SER:HB2	1.92	0.69
1:H:101:THR:HA	1:H:143:ARG:HG2	1.73	0.69
2:I:53:PHE:HE2	2:I:73:TYR:HB3	1.56	0.69
2:I:1066:MET:HE1	2:I:1076:ILE:HD12	1.75	0.69
3:J:514:THR:HA	3:J:576:ARG:HG2	1.73	0.69
3:J:563:LEU:HD12	3:J:563:LEU:H	1.58	0.69
3:J:827:GLU:O	3:J:829:GLY:N	2.26	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:850:LYS:HB3	3:J:851:PRO:CD	2.22	0.69
4:K:60:ASN:O	4:K:64:LEU:HG	1.91	0.69
5:L:466:ILE:HD12	5:L:487:MET:HE1	1.74	0.69
1:A:77:ASP:OD2	2:C:755:LYS:HE3	1.93	0.69
1:B:263:THR:HG22	1:B:302:GLU:OE2	1.93	0.69
2:C:1281:TYR:CD2	3:D:431:ARG:HD2	2.27	0.69
2:C:1304:MET:CE	3:D:472:LEU:HB3	2.21	0.69
3:D:701:LEU:HD11	3:D:723:TYR:HB2	1.73	0.69
3:D:1146:GLU:HA	3:D:1146:GLU:OE2	1.90	0.69
5:F:399:LEU:HD12	5:F:400:GLN:N	2.08	0.69
2:I:860:ALA:O	2:I:863:SER:OG	2.08	0.69
2:I:1013:GLN:O	2:I:1017:GLN:HG2	1.92	0.69
3:J:382:TYR:HB3	3:J:394:ILE:HD13	1.73	0.69
3:J:382:TYR:CE1	3:J:398:LYS:HA	2.27	0.69
1:A:60:GLU:HG2	1:A:143:ARG:HH21	1.56	0.69
1:A:166:ARG:HD2	1:A:167:PRO:N	2.07	0.69
1:B:33:ARG:HH11	1:B:33:ARG:CG	2.02	0.69
1:B:89:ALA:CB	1:B:124:VAL:H	2.05	0.69
2:C:94:ALA:HB2	2:C:129:LEU:HD11	1.75	0.69
2:C:1184:THR:HG23	2:C:1190:ALA:H	1.57	0.69
3:D:18:ASP:HB3	3:D:1369:ARG:HH12	1.58	0.69
3:D:405:GLU:O	3:D:408:VAL:HG13	1.93	0.69
3:D:528:THR:HG22	3:D:532:GLU:OE1	1.93	0.69
3:D:530:PRO:HA	3:D:533:ALA:CB	2.22	0.69
3:D:611:ILE:HG22	3:D:612:LEU:CD1	2.22	0.69
3:D:1226:VAL:O	3:D:1230:THR:HG22	1.93	0.69
5:F:119:ILE:O	5:F:122:ARG:N	2.26	0.69
1:H:33:ARG:HG3	1:H:197:ASP:OD2	1.92	0.69
2:I:568:ASN:HB2	2:I:571:LEU:HB2	1.73	0.69
2:I:674:ASP:O	3:J:772:TYR:OH	2.08	0.69
2:I:932:GLN:HB3	2:I:934:PHE:HE2	1.56	0.69
2:I:1155:VAL:HG23	2:I:1157:GLN:N	2.08	0.69
2:I:1254:VAL:HG22	2:I:1255:THR:HG23	1.73	0.69
3:J:35:PHE:CD1	3:J:101:ARG:HD3	2.28	0.69
3:J:268:LEU:HD11	3:J:324:LEU:CD1	2.17	0.69
3:J:308:ASP:OD2	3:J:311:ARG:NE	2.23	0.69
1:A:103:ASN:HD21	1:A:141:SER:HB2	1.57	0.69
1:A:156:SER:O	1:A:158:ARG:N	2.26	0.69
1:B:44:ARG:HB3	1:B:44:ARG:CZ	2.21	0.69
2:C:478:ARG:HH12	2:C:482:GLY:HA2	1.57	0.69
2:C:519:ASN:ND2	2:C:689:ALA:HB3	2.07	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:621:SER:HB3	2:C:634:VAL:CG2	2.23	0.69
3:D:825:VAL:HG13	3:D:833:GLU:O	1.93	0.69
3:D:848:VAL:HG11	3:D:858:VAL:HG13	1.73	0.69
5:F:388:ILE:O	5:F:392:LYS:N	2.20	0.69
2:I:898:GLU:OE1	2:I:898:GLU:N	2.17	0.69
3:J:268:LEU:CD2	3:J:306:LEU:HD23	2.22	0.69
3:J:1241:TYR:HB3	3:J:1246:VAL:O	1.91	0.69
5:L:498:LEU:HD22	5:L:498:LEU:H	1.56	0.69
1:B:289:LEU:HB3	1:B:300:LEU:HD21	1.72	0.69
3:D:519:ASN:CB	3:D:709:ARG:HB2	2.23	0.69
3:D:883:ARG:NH2	3:D:895:CYS:SG	2.66	0.69
1:G:134:THR:HA	2:I:773:LEU:HD11	1.75	0.69
2:I:669:PRO:HB2	2:I:1184:THR:HB	1.74	0.69
3:J:34:SER:HB2	3:J:104:HIS:HB3	1.73	0.69
3:J:423:LEU:CD1	3:J:468:VAL:HG12	2.19	0.69
3:J:825:VAL:CG1	3:J:833:GLU:HB3	2.22	0.69
1:B:112:ALA:CB	1:B:126:PRO:HA	2.12	0.68
1:B:286:GLU:OE2	1:B:300:LEU:HD11	1.93	0.68
2:C:1191:LYS:HZ3	2:C:1193:ALA:H	1.39	0.68
3:D:271:ARG:HD3	5:F:400:GLN:HE22	1.58	0.68
3:J:355:ILE:HD13	3:J:466:MET:HG3	1.74	0.68
3:J:850:LYS:HE2	3:J:855:ASP:HB2	1.74	0.68
2:C:421:SER:H	2:C:424:ASP:HB2	1.58	0.68
2:C:1005:GLU:HG2	2:C:1006:GLU:OE1	1.93	0.68
3:D:378:LYS:HB3	3:D:379:PRO:HD3	1.75	0.68
3:D:1157:ALA:HB3	3:D:1207:GLY:N	2.08	0.68
2:I:657:THR:OG1	2:I:1187:PHE:HB2	1.92	0.68
2:I:818:VAL:CG2	2:I:1096:ILE:HG12	2.23	0.68
2:I:1023:HIS:O	2:I:1027:LYS:HG2	1.93	0.68
3:J:857:LEU:CD1	3:J:872:LEU:HD21	2.23	0.68
3:J:1263:LYS:HE2	3:J:1279:GLN:HE22	1.58	0.68
1:A:61:ILE:CG2	1:A:64:VAL:HG21	2.23	0.68
2:C:22:LEU:HD22	2:C:23:ASP:N	2.09	0.68
2:C:655:VAL:N	2:C:659:GLN:OE1	2.25	0.68
3:D:659:ALA:O	3:D:661:VAL:N	2.27	0.68
3:D:842:ARG:NH2	3:D:884:SER:HB2	2.08	0.68
4:E:88:GLU:HA	4:E:88:GLU:OE2	1.93	0.68
2:I:386:GLU:HA	2:I:390:PHE:CD2	2.27	0.68
3:J:156:ARG:HH12	3:J:157:GLN:HE21	1.39	0.68
1:A:11:PRO:HD3	1:B:227:GLN:OE1	1.92	0.68
1:A:37:HIS:CD2	1:A:187:VAL:HG21	2.29	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:57:THR:HG23	1:A:158:ARG:CZ	2.23	0.68
1:A:57:THR:HG22	1:A:58:GLU:HG2	1.76	0.68
1:A:89:ALA:O	1:A:124:VAL:HG12	1.93	0.68
2:C:593:LYS:HA	2:C:652:TYR:CE2	2.27	0.68
2:C:617:ALA:HB3	2:C:653:MET:HB2	1.73	0.68
2:C:1338:GLU:O	3:D:20:ILE:HG23	1.94	0.68
3:D:623:GLN:O	3:D:627:THR:HG22	1.94	0.68
3:D:647:PRO:CG	3:D:697:MET:HB3	2.16	0.68
3:D:660:GLU:CB	3:D:685:ILE:HD12	2.23	0.68
1:G:191:ARG:NH1	1:G:197:ASP:HA	2.08	0.68
1:H:181:GLU:HB2	1:H:206:GLU:O	1.92	0.68
2:I:798:GLN:CB	2:I:828:PHE:HE1	1.98	0.68
2:I:976:ARG:HD2	2:I:989:LEU:HD23	1.76	0.68
3:J:431:ARG:N	3:J:921:GLN:OE1	2.26	0.68
3:J:514:THR:CB	3:J:596:LEU:HD23	2.23	0.68
3:J:853:THR:HG22	3:J:854:ALA:H	1.59	0.68
3:J:915:ILE:HA	3:J:918:ILE:CG2	2.23	0.68
2:C:360:LEU:O	2:C:364:VAL:HG23	1.94	0.68
2:C:529:ARG:C	2:C:530:ILE:HG12	2.13	0.68
2:C:992:LEU:HD23	2:C:992:LEU:H	1.56	0.68
3:D:613:GLY:O	3:D:616:PRO:HD2	1.94	0.68
3:D:1238:GLN:CB	3:D:1242:ARG:HH21	2.07	0.68
2:I:1210:ILE:HG22	2:I:1211:ARG:N	2.09	0.68
2:C:979:LEU:HD11	2:C:1011:LEU:HD11	1.74	0.68
2:C:1115:THR:HG22	2:C:1228:GLY:HA3	1.74	0.68
3:D:212:THR:O	3:D:215:LYS:HE2	1.93	0.68
3:D:322:ARG:HG3	3:D:323:PRO:HD2	1.74	0.68
3:D:362:ARG:H	3:D:365:GLN:NE2	1.89	0.68
3:J:490:ILE:HG12	3:J:500:ILE:CG1	2.24	0.68
5:L:532:LEU:HD13	5:L:532:LEU:O	1.93	0.68
1:A:57:THR:HG23	1:A:158:ARG:HH12	1.59	0.68
2:C:68:LEU:HD12	2:C:101:ARG:O	1.94	0.68
2:C:131:THR:OG1	2:C:135:THR:O	2.12	0.68
3:D:45:ASN:HA	3:D:52:GLU:OE2	1.93	0.68
3:D:1179:PRO:HD2	3:D:1184:ASP:CA	2.23	0.68
5:F:387:VAL:O	5:F:390:ILE:HG23	1.94	0.68
1:H:67:GLU:O	1:H:78:ILE:HB	1.93	0.68
2:I:972:PHE:CE2	2:I:998:LEU:HD11	2.27	0.68
3:J:646:ILE:HD12	3:J:762:ASN:HD21	1.59	0.68
1:A:208:ASN:OD1	1:A:210:THR:HG23	1.94	0.68
2:C:94:ALA:CB	2:C:129:LEU:HD11	2.24	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:145:ILE:CG2	2:C:456:VAL:HG22	2.20	0.68
2:C:243:PRO:HB2	2:C:278:GLU:HG2	1.73	0.68
2:C:520:PRO:HG3	2:C:714:VAL:HG11	1.76	0.68
2:C:590:PRO:HG3	2:C:605:TYR:CE1	2.29	0.68
2:C:616:ILE:HG22	2:C:617:ALA:O	1.94	0.68
2:C:617:ALA:HB3	2:C:653:MET:HA	1.76	0.68
2:C:1312:ASN:ND2	2:C:1314:GLN:HE21	1.79	0.68
3:D:520:ALA:O	3:D:522:GLY:N	2.26	0.68
3:D:621:ALA:HA	3:D:624:ILE:HD12	1.74	0.68
5:F:228:TYR:HA	5:F:252:LEU:HD22	1.76	0.68
5:F:479:THR:O	5:F:482:GLU:N	2.27	0.68
5:F:535:ALA:O	5:F:538:GLU:HB3	1.93	0.68
1:G:191:ARG:CZ	1:G:197:ASP:HA	2.24	0.68
2:I:510:GLN:CD	2:I:534:GLY:HA2	2.14	0.68
2:I:590:PRO:HG3	2:I:605:TYR:CZ	2.28	0.68
2:I:841:ARG:NH1	3:J:256:ASP:HB3	2.08	0.68
3:J:252:LEU:CD2	3:J:262:THR:HB	2.23	0.68
3:J:1283:SER:OG	3:J:1284:ARG:N	2.25	0.68
5:L:264:LYS:N	5:L:264:LYS:HD2	2.09	0.68
2:C:1174:GLU:OE2	2:C:1177:ARG:HD2	1.94	0.68
3:D:148:GLU:OE2	3:D:156:ARG:NE	2.27	0.68
3:D:190:LYS:HD3	3:D:235:GLU:HG2	1.75	0.68
3:D:1270:GLY:HA3	3:D:1297:LYS:O	1.94	0.68
5:F:127:ILE:O	5:F:131:GLN:N	2.19	0.68
1:G:218:ARG:HH11	1:H:233:ASP:H	1.42	0.68
1:G:231:PHE:CB	1:H:218:ARG:HB3	2.24	0.68
2:I:145:ILE:HG21	2:I:456:VAL:HG22	1.75	0.68
2:I:758:ARG:HB2	2:I:833:ILE:HG22	1.75	0.68
1:B:140:ILE:HD12	1:B:141:SER:N	2.09	0.68
2:C:70:TYR:OH	2:C:72:SER:HA	1.94	0.68
2:C:615:VAL:HG13	2:C:651:ASP:H	1.58	0.68
2:C:698:PRO:HB3	2:C:1231:TYR:CD2	2.29	0.68
2:C:813:GLU:HG3	3:D:460:ASP:HA	1.76	0.68
3:D:265:LEU:O	3:D:269:TYR:N	2.20	0.68
3:D:766:GLY:O	3:D:767:LEU:HD12	1.94	0.68
5:F:283:GLN:NE2	5:F:343:LYS:HD2	2.09	0.68
5:F:346:GLN:HA	5:F:349:GLU:OE1	1.94	0.68
1:G:187:VAL:CG1	1:G:201:LEU:HD13	2.24	0.68
1:G:207:THR:HG21	1:G:211:ILE:HG22	1.74	0.68
2:I:198:ILE:HD12	2:I:369:MET:HE3	1.76	0.68
3:J:306:LEU:HB3	3:J:307:LEU:HD23	1.74	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:1356:LEU:HD23	3:J:1357:ILE:N	2.09	0.68
1:A:76:GLU:N	1:A:76:GLU:OE2	2.27	0.67
1:B:61:ILE:HG22	1:B:63:GLY:H	1.59	0.67
1:B:151:GLY:O	1:B:177:TYR:N	2.27	0.67
3:D:127:LEU:HD12	3:D:127:LEU:O	1.94	0.67
3:D:737:ILE:O	3:D:740:LEU:N	2.17	0.67
5:F:460:ILE:O	5:F:463:LEU:N	2.27	0.67
5:F:562:ARG:NH1	5:F:591:GLU:OE2	2.27	0.67
1:G:13:LEU:HD23	1:G:13:LEU:H	1.57	0.67
1:G:228:LEU:HD11	1:H:221:ALA:HB1	1.75	0.67
2:I:633:LEU:HD23	2:I:633:LEU:N	2.10	0.67
3:J:126:LEU:HD12	3:J:127:LEU:N	2.09	0.67
3:J:580:TRP:CZ3	3:J:583:VAL:HG11	2.28	0.67
5:L:139:GLU:OE1	5:L:142:THR:HG21	1.93	0.67
1:A:103:ASN:ND2	1:A:141:SER:HB2	2.08	0.67
1:A:166:ARG:N	1:A:167:PRO:HD2	2.08	0.67
2:C:810:TYR:HE1	2:C:1078:LYS:CD	2.03	0.67
2:C:815:SER:HB3	3:D:461:PHE:HD1	1.58	0.67
2:C:957:LYS:O	2:C:961:SER:OG	2.11	0.67
3:D:203:GLU:O	3:D:206:ASN:N	2.27	0.67
3:D:627:THR:HG23	3:D:628:GLY:N	2.09	0.67
3:D:903:LEU:HB3	3:D:905:ARG:H	1.58	0.67
5:F:136:GLU:OE2	5:F:364:ARG:NH2	2.28	0.67
5:F:295:CYS:HA	5:F:329:LYS:HB3	1.76	0.67
3:J:492:SER:HB3	3:J:499:ILE:HD13	1.74	0.67
3:J:495:ASN:HD22	3:J:497:GLU:HB2	1.58	0.67
5:L:459:THR:O	5:L:463:LEU:HD13	1.94	0.67
5:L:548:LEU:HA	5:L:551:LEU:HD12	1.76	0.67
1:B:191:ARG:NH2	3:D:410:ASP:OD2	2.27	0.67
3:D:556:GLU:O	3:D:564:VAL:HB	1.94	0.67
3:D:1171:GLY:HA2	3:D:1193:TRP:CH2	2.29	0.67
5:F:113:ARG:O	5:F:116:GLU:HB2	1.94	0.67
1:G:44:ARG:HG3	1:G:183:ILE:CG2	2.23	0.67
1:G:151:GLY:N	1:G:177:TYR:HB2	2.08	0.67
2:I:161:LYS:NZ	2:I:161:LYS:H	1.92	0.67
2:I:1308:ILE:HG23	3:J:380:PHE:CE2	2.30	0.67
3:J:260:PHE:HB3	5:L:504:PRO:HG3	1.75	0.67
3:J:460:ASP:O	3:J:461:PHE:HD2	1.77	0.67
3:J:1365:TYR:O	3:J:1368:ASP:HB3	1.94	0.67
2:C:215:TYR:HE2	2:C:422:LYS:HD2	1.58	0.67
2:C:509:SER:O	2:C:511:LEU:N	2.27	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:995:ASP:OD1	2:C:996:ARG:NH2	2.27	0.67
3:D:317:THR:HA	3:D:324:LEU:HG	1.77	0.67
3:D:653:ILE:O	3:D:656:GLU:N	2.27	0.67
3:D:667:GLN:CA	3:D:672:LEU:HD13	2.23	0.67
3:D:1313:SER:O	3:D:1315:ALA:N	2.27	0.67
3:D:1333:THR:O	3:D:1337:VAL:HG13	1.95	0.67
5:F:320:ILE:HG21	5:F:331:HIS:CE1	2.28	0.67
2:I:74:ARG:NH1	2:I:97:ARG:HB2	2.09	0.67
2:I:854:ILE:CG2	2:I:855:PRO:HD2	2.24	0.67
2:I:1106:ARG:O	2:I:1108:ASN:ND2	2.27	0.67
3:J:260:PHE:HB3	5:L:504:PRO:CG	2.24	0.67
3:J:391:ALA:HB2	3:J:400:MET:SD	2.35	0.67
5:L:354:THR:O	5:L:358:VAL:HG13	1.93	0.67
1:B:62:ASP:OD2	1:B:140:ILE:HD13	1.94	0.67
2:C:591:TYR:OH	2:C:637:ARG:NH2	2.27	0.67
2:C:736:VAL:CG2	2:C:748:ILE:HA	2.23	0.67
2:C:812:PHE:CE2	3:D:451:PRO:HB3	2.29	0.67
2:C:974:ARG:O	2:C:978:VAL:HG23	1.94	0.67
3:D:725:MET:O	3:D:728:SER:OG	2.12	0.67
1:G:73:GLY:O	1:G:134:THR:HG22	1.93	0.67
1:H:140:ILE:HD11	1:H:142:MET:HE3	1.76	0.67
2:I:388:LEU:HB3	2:I:389:PHE:CD2	2.30	0.67
2:I:487:LEU:O	2:I:487:LEU:HD23	1.93	0.67
2:I:1277:ALA:HA	3:J:431:ARG:HA	1.75	0.67
2:I:1280:ALA:HB3	3:J:431:ARG:CB	2.23	0.67
3:J:298:MET:O	3:J:301:GLU:HB3	1.94	0.67
3:J:1162:ILE:HG13	3:J:1163:VAL:N	2.09	0.67
1:B:37:HIS:HA	1:B:185:TYR:CE1	2.29	0.67
1:B:98:VAL:HG13	1:B:99:ILE:N	2.09	0.67
1:B:285:THR:HG23	1:B:287:VAL:HB	1.76	0.67
2:C:918:LEU:HD12	2:C:918:LEU:O	1.93	0.67
3:D:279:LEU:HD23	3:D:279:LEU:C	2.14	0.67
5:F:295:CYS:HB3	5:F:329:LYS:HB2	1.77	0.67
1:G:191:ARG:HH12	1:G:197:ASP:HA	1.60	0.67
1:H:153:VAL:CG1	1:H:158:ARG:HD3	2.24	0.67
2:I:149:LEU:HD12	2:I:452:ARG:O	1.95	0.67
2:I:242:VAL:HB	2:I:245:ARG:HD2	1.76	0.67
2:I:1124:ILE:HD13	2:I:1202:GLY:HA2	1.75	0.67
2:I:1192:GLU:OE2	3:J:764:ARG:NH1	2.27	0.67
3:J:120:LEU:CB	3:J:121:PRO:HD3	2.16	0.67
3:J:268:LEU:O	3:J:271:ARG:HB3	1.94	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:498:PRO:HG2	3:J:602:SER:OG	1.95	0.67
3:J:537:TYR:HE2	3:J:631:TYR:CE1	2.10	0.67
1:A:91:ARG:HD3	1:A:210:THR:O	1.94	0.67
1:A:171:LEU:HD22	1:A:171:LEU:H	1.59	0.67
2:C:615:VAL:HG11	2:C:649:GLN:O	1.95	0.67
2:C:901:LEU:HD11	2:C:905:ILE:HD11	1.77	0.67
2:C:1293:VAL:HG13	2:C:1301:ARG:CA	2.23	0.67
3:D:796:LEU:HD11	3:D:800:LEU:HD11	1.76	0.67
3:D:1352:ILE:HD12	8:D:2004:4C4:C7	2.25	0.67
4:E:56:GLU:CB	4:E:58:LEU:HD13	2.25	0.67
1:G:11:PRO:HB3	1:G:31:LEU:HD23	1.76	0.67
1:H:197:ASP:C	1:H:198:LEU:HD22	2.14	0.67
2:I:615:VAL:CG1	2:I:650:VAL:HA	2.24	0.67
2:I:981:ALA:HB1	2:I:1007:LYS:NZ	2.10	0.67
2:I:1063:GLY:O	3:J:354:VAL:HG11	1.94	0.67
3:J:194:LEU:HD22	3:J:224:LEU:CD2	2.24	0.67
3:J:1163:VAL:CG2	3:J:1175:LEU:HD11	2.25	0.67
4:K:3:ARG:HD3	4:K:5:THR:O	1.95	0.67
1:B:92:VAL:CG1	1:B:95:LYS:HB3	2.25	0.67
2:C:1223:ARG:HB3	2:C:1223:ARG:HH11	1.60	0.67
3:D:71:LEU:HB2	3:D:90:VAL:HG21	1.75	0.67
3:D:152:THR:HB	3:D:172:PHE:CE1	2.29	0.67
3:D:382:TYR:HE2	5:F:532:LEU:HD23	1.59	0.67
1:G:218:ARG:NH1	1:H:231:PHE:O	2.28	0.67
1:H:85:LEU:O	1:H:88:LEU:N	2.24	0.67
2:I:98:VAL:O	2:I:121:GLU:HA	1.94	0.67
2:I:870:ILE:HG22	2:I:944:ARG:HH11	1.60	0.67
3:J:147:ILE:HG13	3:J:177:ASP:HB3	1.75	0.67
3:J:311:ARG:NH2	3:J:1329:THR:HG21	2.10	0.67
3:J:785:ASP:HA	3:J:788:LEU:HD23	1.75	0.67
3:J:867:GLN:O	3:J:870:ASP:N	2.28	0.67
1:A:12:ARG:N	1:A:30:PRO:HG2	2.10	0.67
1:A:162:GLU:HG3	1:A:165:GLU:CG	2.20	0.67
1:B:100:LEU:HD23	1:B:115:ILE:CG2	2.24	0.67
1:B:109:PRO:HB3	1:B:132:HIS:CD2	2.29	0.67
2:C:256:GLU:OE2	2:C:261:VAL:HG22	1.95	0.67
2:C:559:CYS:HG	2:C:662:SER:HG	0.68	0.67
2:C:665:ALA:O	2:C:667:LEU:N	2.28	0.67
3:D:572:THR:HG23	3:D:573:THR:N	2.09	0.67
5:F:275:VAL:HA	5:F:278:ASP:OD2	1.93	0.67
5:F:514:ASP:O	5:F:515:GLU:HG3	1.95	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:246:LEU:HB3	2:I:269:ILE:HG21	1.75	0.67
3:J:275:ARG:NH1	3:J:298:MET:HB3	2.10	0.67
3:J:432:LEU:HD22	3:J:489:ASN:HB3	1.77	0.67
3:J:698:MET:O	3:J:702:GLN:HB2	1.95	0.67
4:K:44:ASP:HB2	4:K:49:ILE:CG1	2.25	0.67
5:L:483:LEU:HD21	5:L:487:MET:HE3	1.77	0.67
1:A:73:GLY:HA2	2:C:726:TYR:OH	1.93	0.67
2:C:878:THR:O	2:C:920:VAL:HG11	1.95	0.67
2:C:1246:ARG:NH2	3:D:348:ASP:OD1	2.28	0.67
2:C:1253:LEU:HD23	2:C:1253:LEU:C	2.16	0.67
3:D:42:GLU:N	3:D:42:GLU:OE1	2.27	0.67
3:D:79:LYS:HE3	3:D:80:HIS:CA	2.25	0.67
3:D:97:VAL:HG11	3:D:101:ARG:NH2	2.10	0.67
3:D:268:LEU:HD22	3:D:306:LEU:CA	2.23	0.67
3:D:892:PHE:HZ	3:D:1282:TYR:HE1	1.40	0.67
1:G:169:GLY:O	1:G:171:LEU:HD13	1.95	0.67
2:I:59:ILE:HG21	2:I:475:VAL:CG1	2.18	0.67
2:I:59:ILE:HG23	2:I:476:LYS:HE3	1.77	0.67
2:I:720:ARG:HD3	2:I:749:ASP:OD1	1.94	0.67
3:J:320:ASN:OD1	3:J:322:ARG:HB3	1.95	0.67
3:J:903:LEU:HD23	3:J:905:ARG:HG3	1.77	0.67
5:L:387:VAL:CG1	5:L:408:GLY:HA3	2.25	0.67
5:L:574:GLU:O	5:L:577:GLY:N	2.28	0.67
2:C:338:THR:CB	2:C:345:PRO:HB3	2.25	0.66
3:D:171:GLU:HB3	3:D:172:PHE:HD2	1.59	0.66
3:D:530:PRO:HA	3:D:533:ALA:HB3	1.77	0.66
4:E:39:VAL:HG22	4:E:40:PRO:HD2	1.76	0.66
1:G:12:ARG:CG	1:H:230:ALA:HB1	2.25	0.66
2:I:74:ARG:HH12	2:I:97:ARG:CB	2.09	0.66
2:I:417:SER:OG	2:I:419:ILE:N	2.27	0.66
2:I:510:GLN:C	2:I:511:LEU:HD23	2.14	0.66
2:I:758:ARG:HB2	2:I:833:ILE:HG21	1.77	0.66
2:I:870:ILE:HG22	2:I:944:ARG:NH1	2.09	0.66
3:J:493:PRO:HB2	3:J:918:ILE:HD11	1.78	0.66
3:J:537:TYR:CE2	3:J:631:TYR:HE1	2.10	0.66
3:J:910:ASN:HD22	4:K:15:ASN:HA	1.60	0.66
1:B:248:GLU:HG3	1:B:249:PHE:N	2.10	0.66
2:C:745:GLU:HB2	2:C:1017:GLN:HB3	1.77	0.66
2:C:918:LEU:HD12	2:C:918:LEU:C	2.16	0.66
3:D:198:CYS:O	3:D:202:ARG:HG3	1.95	0.66
3:D:271:ARG:CD	5:F:400:GLN:HE22	2.08	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:310:GLY:HA2	3:D:314:ARG:HD2	1.76	0.66
3:D:515:ARG:O	3:D:545:HIS:HB3	1.96	0.66
3:D:622:ASP:HB3	3:D:626:TYR:CE2	2.29	0.66
3:D:1348:LYS:HG3	8:D:2004:4C4:N	2.10	0.66
1:G:166:ARG:HD2	1:G:166:ARG:C	2.15	0.66
2:I:469:VAL:HG23	2:I:470:ARG:H	1.59	0.66
2:I:723:VAL:HG22	2:I:776:PRO:HA	1.77	0.66
2:I:745:GLU:N	2:I:1017:GLN:HG3	2.10	0.66
2:I:1302:THR:HG22	5:L:531:PRO:CB	2.25	0.66
3:J:559:ALA:O	3:J:561:GLY:N	2.28	0.66
3:J:1157:ALA:HB1	3:J:1206:ARG:HA	1.77	0.66
3:J:1193:TRP:HB2	3:J:1194:ARG:HH12	1.60	0.66
2:C:1010:GLN:O	2:C:1013:GLN:HB2	1.94	0.66
3:D:368:LEU:CD2	3:D:373:ALA:HB2	2.24	0.66
3:D:520:ALA:CB	3:D:546:ALA:HB2	2.22	0.66
3:D:527:LEU:HD23	3:D:532:GLU:CG	2.25	0.66
3:D:1151:LYS:O	3:D:1153:PRO:HD3	1.96	0.66
3:D:1157:ALA:O	3:D:1207:GLY:N	2.27	0.66
3:D:1159:ILE:HG13	3:D:1160:SER:O	1.95	0.66
3:D:1174:ARG:HG2	3:D:1189:MET:HG2	1.77	0.66
5:F:119:ILE:HD12	5:F:122:ARG:HE	1.59	0.66
5:F:585:GLU:CA	5:F:588:ARG:HG3	2.25	0.66
2:I:617:ALA:HB3	2:I:653:MET:CB	2.25	0.66
2:I:746:ALA:CB	2:I:974:ARG:HE	2.07	0.66
2:I:817:LEU:HD23	2:I:1078:LYS:O	1.96	0.66
2:I:1240:ASP:HB3	3:J:445:LYS:NZ	2.10	0.66
3:J:268:LEU:CD1	3:J:324:LEU:HD13	2.19	0.66
3:J:394:ILE:O	3:J:398:LYS:N	2.23	0.66
5:L:122:ARG:NH2	5:L:378:GLU:OE1	2.29	0.66
5:L:372:ALA:O	5:L:376:LYS:HG3	1.96	0.66
2:C:169:LYS:HE2	2:C:190:PRO:HA	1.77	0.66
2:C:1294:LYS:HD3	3:D:472:LEU:HD11	1.78	0.66
4:E:9:ALA:HB2	4:E:55:GLU:CG	2.26	0.66
5:F:390:ILE:CD1	5:F:435:ILE:HG22	2.26	0.66
2:I:4:SER:HB3	2:I:7:GLU:CG	2.24	0.66
2:I:693:LEU:N	2:I:829:THR:O	2.28	0.66
3:J:124:ILE:HG12	3:J:237:MET:SD	2.35	0.66
3:J:1167:LYS:NZ	3:J:1170:LYS:HB2	2.10	0.66
5:L:548:LEU:HA	5:L:551:LEU:CD1	2.24	0.66
2:C:169:LYS:O	2:C:170:VAL:HG22	1.95	0.66
2:C:272:ARG:O	2:C:276:GLN:HG3	1.95	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1060:ILE:HG13	2:C:1061:GLN:N	2.09	0.66
3:D:26:SER:CB	3:D:29:MET:HB3	2.26	0.66
3:D:810:THR:HG23	3:D:893:GLY:HA3	1.78	0.66
3:D:853:THR:HB	3:J:1375:ALA:C	2.16	0.66
5:F:119:ILE:CD1	5:F:122:ARG:HE	2.07	0.66
5:F:245:ALA:O	5:F:249:ILE:HG13	1.95	0.66
5:F:295:CYS:SG	5:F:330:LEU:HA	2.36	0.66
1:H:48:LEU:HD22	3:J:539:SER:HB3	1.76	0.66
2:I:5:TYR:HA	2:I:8:LYS:HG2	1.77	0.66
2:I:35:PHE:O	2:I:38:PHE:N	2.28	0.66
2:I:478:ARG:NH1	2:I:482:GLY:HA2	2.11	0.66
2:I:673:HIS:HB3	2:I:1109:ILE:HG22	1.78	0.66
2:I:849:GLU:HB2	2:I:851:THR:HG22	1.77	0.66
2:I:897:PRO:CB	5:L:565:ILE:HB	2.25	0.66
2:I:927:THR:HG22	2:I:928:VAL:O	1.95	0.66
2:I:944:ARG:HE	2:I:948:ILE:CD1	2.08	0.66
2:I:1280:ALA:CB	3:J:431:ARG:HB3	2.24	0.66
1:B:205:MET:HG2	1:B:206:GLU:H	1.60	0.66
2:C:15:PHE:HB3	2:C:17:LYS:HZ3	1.57	0.66
2:C:147:SER:OG	2:C:455:SER:HB3	1.96	0.66
2:C:987:GLU:O	2:C:991:LYS:HG3	1.96	0.66
3:D:160:LEU:HD13	3:D:165:TYR:HA	1.77	0.66
3:D:842:ARG:HB3	3:D:882:VAL:CG1	2.26	0.66
2:I:435:ILE:O	2:I:438:GLY:N	2.25	0.66
2:I:617:ALA:HB3	2:I:653:MET:HG3	1.78	0.66
2:I:1234:LYS:HE2	2:I:1238:LEU:HD23	1.76	0.66
3:J:24:LEU:HB2	3:J:232:ASN:CG	2.15	0.66
3:J:80:HIS:CB	3:J:83:VAL:HG11	2.20	0.66
3:J:377:PHE:HD1	3:J:380:PHE:CD1	2.14	0.66
1:A:92:VAL:HG11	1:A:98:VAL:CG1	2.26	0.66
3:D:47:ARG:HH12	5:F:496:LYS:HE2	1.61	0.66
3:D:247:PRO:O	3:D:249:LEU:N	2.29	0.66
3:D:422:LEU:HB2	3:D:469:HIS:HB2	1.77	0.66
3:D:514:THR:O	3:D:595:ALA:HA	1.96	0.66
3:D:656:GLU:O	3:D:659:ALA:HB3	1.96	0.66
5:F:320:ILE:HA	5:F:327:SER:HB3	1.77	0.66
2:I:201:ARG:HH11	2:I:201:ARG:HG3	1.60	0.66
2:I:389:PHE:O	2:I:419:ILE:HG22	1.96	0.66
2:I:617:ALA:HB3	2:I:653:MET:HA	1.75	0.66
2:I:799:ASN:HA	2:I:1231:TYR:HA	1.78	0.66
2:I:953:LEU:HA	2:I:1036:ILE:CD1	2.25	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:996:ARG:NH1	2:I:999:GLU:OE2	2.27	0.66
3:J:1279:GLN:HB3	3:J:1281:GLU:OE1	1.95	0.66
1:A:56:VAL:HG22	1:A:173:VAL:CG2	2.25	0.66
1:B:16:ILE:HD12	1:B:214:GLU:HG3	1.78	0.66
1:B:61:ILE:HG22	1:B:63:GLY:N	2.11	0.66
1:B:151:GLY:N	1:B:177:TYR:HB2	2.11	0.66
2:C:417:SER:OG	2:C:419:ILE:O	2.14	0.66
2:C:617:ALA:HB3	2:C:653:MET:CA	2.25	0.66
3:D:1280:VAL:HG13	3:D:1284:ARG:HD2	1.76	0.66
5:F:239:GLY:O	5:F:245:ALA:HB2	1.96	0.66
2:I:918:LEU:HD12	2:I:919:ARG:N	2.10	0.66
3:J:68:TYR:HA	3:J:92:VAL:HG23	1.77	0.66
3:J:88:CYS:O	3:J:90:VAL:N	2.29	0.66
3:J:147:ILE:N	3:J:177:ASP:O	2.17	0.66
3:J:392:THR:HB	5:L:606:VAL:HG11	1.77	0.66
3:J:482:ALA:CB	4:K:20:VAL:HG22	2.26	0.66
1:B:155:ALA:O	1:B:158:ARG:HB3	1.95	0.66
2:C:125:GLY:HA2	2:C:499:SER:HB2	1.77	0.66
3:D:915:ILE:HA	3:D:918:ILE:HG23	1.76	0.66
5:F:130:VAL:CG1	5:F:365:MET:HG3	2.25	0.66
5:F:263:PRO:O	5:F:266:PHE:HB3	1.96	0.66
3:J:132:LEU:CD1	3:J:136:GLU:HG3	2.26	0.66
3:J:210:SER:O	3:J:214:ARG:N	2.25	0.66
3:J:513:MET:HE3	3:J:579:LEU:HD13	1.78	0.66
3:J:814:CYS:HB2	3:J:889:ASP:CB	2.22	0.66
4:K:31:GLN:HB2	4:K:46:THR:HG21	1.77	0.66
2:C:560:PRO:CG	3:D:773:PHE:HE2	2.09	0.66
2:C:759:SER:OG	2:C:763:THR:HG23	1.94	0.66
2:C:1212:LEU:HD22	2:C:1225:VAL:HG21	1.77	0.66
2:C:1294:LYS:HD3	3:D:472:LEU:CD1	2.26	0.66
3:D:490:ILE:O	3:D:491:LEU:HD23	1.97	0.66
3:D:514:THR:HG21	3:D:596:LEU:HD23	1.78	0.66
5:F:605:GLU:O	5:F:608:ARG:HB3	1.96	0.66
1:H:67:GLU:OE2	1:H:171:LEU:HB3	1.96	0.66
2:I:219:GLN:O	2:I:222:ASP:HB3	1.96	0.66
2:I:296:VAL:CB	2:I:336:LEU:HD12	2.25	0.66
2:I:373:GLY:O	5:L:99:ARG:HG3	1.95	0.66
2:I:560:PRO:HG2	2:I:660:VAL:HG23	1.77	0.66
2:I:696:ASP:OD2	2:I:827:ARG:NH2	2.29	0.66
3:J:287:ALA:HB1	3:J:288:PRO:HD2	1.78	0.66
3:J:513:MET:CE	3:J:579:LEU:HD13	2.25	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:810:THR:CG2	3:J:893:GLY:HA3	2.26	0.66
5:L:123:ILE:O	5:L:127:ILE:HG12	1.96	0.66
5:L:559:LEU:O	5:L:562:ARG:N	2.28	0.66
1:B:98:VAL:O	1:B:145:LYS:HG3	1.95	0.65
2:C:363:LEU:CD2	2:C:382:GLU:HA	2.26	0.65
2:C:1146:GLN:HG3	2:C:1160:ASP:OD1	1.96	0.65
2:C:1204:LEU:HB3	2:C:1205:PRO:HD2	1.78	0.65
2:C:1285:TYR:HE1	3:D:1361:THR:HG21	1.59	0.65
3:D:130:MET:CE	3:D:135:ILE:HG12	2.26	0.65
3:D:520:ALA:HB1	3:D:543:SER:HB3	1.77	0.65
3:D:805:GLN:C	3:D:807:LEU:H	1.99	0.65
3:D:1167:LYS:NZ	3:D:1168:GLU:O	2.20	0.65
5:F:372:ALA:O	5:F:376:LYS:HG3	1.96	0.65
1:G:45:ARG:HH12	1:H:37:HIS:CB	2.10	0.65
2:I:404:LYS:NZ	2:I:449:GLY:O	2.29	0.65
2:I:1217:THR:OG1	2:I:1219:GLU:HG2	1.95	0.65
3:J:42:GLU:CG	5:L:451:ARG:HG2	2.26	0.65
3:J:268:LEU:HB3	3:J:306:LEU:HD23	1.76	0.65
1:A:56:VAL:HG22	1:A:173:VAL:HG21	1.76	0.65
1:A:104:LYS:HG2	1:A:105:SER:N	2.12	0.65
2:C:436:ARG:HD2	2:C:436:ARG:O	1.95	0.65
2:C:550:VAL:HG11	3:D:776:THR:HG22	1.77	0.65
2:C:686:GLN:O	2:C:688:GLN:N	2.30	0.65
3:D:58:CYS:SG	3:D:60:ARG:HB3	2.36	0.65
3:D:188:LEU:O	3:D:191:SER:OG	2.13	0.65
3:D:1222:ARG:HG2	3:D:1223:LEU:HD22	1.78	0.65
5:F:595:LEU:HD23	5:F:595:LEU:N	2.10	0.65
2:I:720:ARG:HH21	2:I:741:MET:HG3	1.59	0.65
2:I:1182:ILE:HG22	2:I:1183:ALA:H	1.61	0.65
3:J:299:LEU:O	3:J:302:ALA:N	2.28	0.65
3:J:490:ILE:HG12	3:J:500:ILE:HG13	1.77	0.65
3:J:584:PRO:HD2	3:J:587:LEU:HD13	1.78	0.65
3:J:1163:VAL:HG22	3:J:1175:LEU:HD11	1.78	0.65
5:L:251:LYS:O	5:L:255:VAL:HG23	1.96	0.65
1:B:82:LEU:HA	1:B:85:LEU:HD12	1.77	0.65
1:B:182:ARG:HG3	1:B:182:ARG:HH11	1.60	0.65
2:C:496:LYS:HZ2	2:C:497:PRO:CG	2.06	0.65
2:C:563:THR:HG23	2:C:564:PRO:O	1.96	0.65
2:C:1107:MET:HE1	3:D:736:GLN:HG2	1.79	0.65
2:C:1164:PHE:HB2	2:C:1168:GLU:CD	2.16	0.65
2:C:1332:SER:HA	3:D:243:PRO:HG2	1.79	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:599:LYS:HD2	3:D:600:ALA:N	2.12	0.65
3:D:824:PRO:HD3	3:D:835:LEU:HD22	1.77	0.65
1:G:165:GLU:OE2	1:G:172:LEU:HD11	1.96	0.65
1:H:38:THR:HG23	1:H:39:LEU:HG	1.78	0.65
2:I:1144:PHE:HE1	2:I:1201:LEU:HD11	1.61	0.65
3:J:755:ILE:HD12	3:J:774:ILE:HG21	1.76	0.65
5:L:482:GLU:O	5:L:485:GLU:HB3	1.95	0.65
1:A:38:THR:HG22	1:A:39:LEU:HD23	1.79	0.65
1:A:207:THR:CG2	1:A:209:GLY:H	2.07	0.65
1:A:218:ARG:HG3	1:B:231:PHE:O	1.95	0.65
1:B:232:VAL:HG12	1:B:233:ASP:H	1.61	0.65
3:D:473:THR:HG23	3:D:476:ALA:CB	2.27	0.65
3:D:599:LYS:HD2	3:D:600:ALA:HB2	1.78	0.65
3:D:871:LEU:HD23	3:D:871:LEU:C	2.17	0.65
3:D:888:CYS:HB2	3:D:898:CYS:CB	2.26	0.65
2:I:755:LYS:O	2:I:757:THR:HG22	1.96	0.65
2:I:943:LYS:O	2:I:946:LEU:N	2.29	0.65
2:I:1158:LYS:O	2:I:1159:VAL:HG13	1.96	0.65
3:J:645:VAL:O	3:J:741:ALA:HB1	1.96	0.65
3:J:827:GLU:OE1	3:J:832:LYS:HD2	1.96	0.65
2:C:1125:GLY:CA	2:C:1179:GLY:HA2	2.26	0.65
2:C:1278:LEU:HD12	2:C:1287:LEU:CB	2.25	0.65
2:C:1336:ASN:HD22	3:D:29:MET:HE3	1.59	0.65
3:D:26:SER:HB3	3:D:29:MET:HB3	1.78	0.65
3:D:514:THR:CG2	3:D:596:LEU:HD23	2.26	0.65
3:D:515:ARG:CZ	3:D:719:PHE:HE2	2.09	0.65
1:G:28:LEU:CD2	1:H:231:PHE:HE1	2.09	0.65
2:I:106:GLU:OE1	2:I:114:VAL:HG22	1.97	0.65
3:J:94:GLN:O	3:J:97:VAL:HG23	1.97	0.65
3:J:146:VAL:HA	3:J:178:ALA:CB	2.26	0.65
3:J:514:THR:OG1	3:J:596:LEU:HD23	1.97	0.65
3:J:644:MET:CB	3:J:764:ARG:HG3	2.26	0.65
3:J:1159:ILE:HG22	3:J:1177:ILE:HD12	1.76	0.65
2:C:91:THR:HB	2:C:138:ILE:O	1.96	0.65
2:C:933:VAL:CG2	2:C:1050:VAL:HG12	2.27	0.65
2:C:1287:LEU:HD21	3:D:1351:VAL:HG22	1.77	0.65
3:D:516:ASP:HA	3:D:545:HIS:HB2	1.78	0.65
3:D:660:GLU:O	3:D:664:ILE:HG12	1.95	0.65
3:D:1282:TYR:HB3	3:D:1286:LYS:HE3	1.77	0.65
4:E:50:ALA:O	4:E:54:ILE:HG12	1.97	0.65
5:F:137:TYR:HB3	5:F:140:ALA:CB	2.27	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:418:LYS:O	5:F:430:TYR:HE2	1.78	0.65
5:F:545:HIS:ND1	5:F:545:HIS:O	2.26	0.65
2:I:198:ILE:HD12	2:I:369:MET:CE	2.26	0.65
2:I:620:ASN:O	2:I:620:ASN:ND2	2.30	0.65
2:I:842:ASP:HB2	2:I:1047:LEU:HD21	1.79	0.65
2:I:971:LEU:HD11	2:I:1014:LEU:O	1.96	0.65
2:I:1274:GLU:N	2:I:1274:GLU:OE1	2.29	0.65
3:J:127:LEU:O	3:J:127:LEU:HD12	1.96	0.65
3:J:573:THR:OG1	3:J:574:VAL:N	2.25	0.65
3:J:800:LEU:O	3:J:803:VAL:N	2.23	0.65
5:L:223:GLU:OE2	5:L:258:GLN:NE2	2.29	0.65
5:L:540:LEU:HD13	5:L:607:LEU:CG	2.21	0.65
1:A:152:TYR:HE2	1:A:154:PRO:CB	2.07	0.65
1:A:152:TYR:CE2	1:A:154:PRO:HB3	2.26	0.65
1:B:255:ARG:HH11	1:B:255:ARG:HG3	1.60	0.65
2:C:49:LEU:HD12	2:C:73:TYR:CE2	2.32	0.65
2:C:216:THR:HG23	2:C:219:GLN:OE1	1.96	0.65
2:C:360:LEU:HD13	2:C:378:ARG:NH2	2.10	0.65
2:C:971:LEU:HD22	2:C:1018:TYR:HD1	1.60	0.65
2:C:1116:HIS:HE1	3:D:641:ILE:H	1.45	0.65
3:D:148:GLU:H	3:D:156:ARG:HG3	1.60	0.65
3:D:620:PHE:CE2	3:D:624:ILE:HD11	2.32	0.65
1:G:41:ASN:ND2	2:I:1216:ARG:O	2.30	0.65
2:I:806:PRO:HD3	2:I:1100:PRO:HG2	1.78	0.65
2:I:1030:GLU:OE2	2:I:1034:ARG:NH2	2.29	0.65
2:I:1160:ASP:OD2	2:I:1163:THR:OG1	2.15	0.65
2:I:1293:VAL:HG13	2:I:1301:ARG:CA	2.26	0.65
5:L:134:VAL:HG21	5:L:266:PHE:HE1	1.60	0.65
2:C:674:ASP:OD2	2:C:1070:HIS:ND1	2.28	0.65
2:C:685:MET:SD	2:C:1073:LYS:HG3	2.37	0.65
2:C:1120:ALA:HB2	2:C:1199:LEU:CD2	2.25	0.65
2:C:1161:LEU:HD11	2:C:1163:THR:O	1.97	0.65
3:D:1167:LYS:HD3	3:D:1174:ARG:HD2	1.79	0.65
1:G:44:ARG:HG3	1:G:183:ILE:HG22	1.78	0.65
1:G:124:VAL:CB	1:G:210:THR:HG22	2.27	0.65
1:G:187:VAL:HG12	1:G:201:LEU:HD13	1.78	0.65
2:I:310:ILE:HG21	2:I:325:LEU:HD23	1.77	0.65
2:I:944:ARG:NE	2:I:948:ILE:HD11	2.08	0.65
2:I:1008:GLN:OE1	2:I:1011:LEU:HD12	1.95	0.65
2:I:1043:ALA:HB1	2:I:1044:PRO:HD2	1.79	0.65
2:I:1128:ILE:HD12	2:I:1176:LEU:HB3	1.78	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:1131:MET:HB3	2:I:1141:LEU:CD1	2.20	0.65
3:J:1368:ASP:OD1	3:J:1372:ARG:NH2	2.30	0.65
5:L:120:ALA:HB1	5:L:421:TYR:HB3	1.79	0.65
5:L:121:LYS:O	5:L:124:GLU:N	2.29	0.65
5:L:140:ALA:O	5:L:143:TYR:HB3	1.96	0.65
5:L:343:LYS:HG3	5:L:346:GLN:OE1	1.96	0.65
1:B:41:ASN:HA	1:B:44:ARG:HG3	1.79	0.65
2:C:91:THR:HG21	2:C:503:LYS:HE3	1.79	0.65
2:C:434:ASP:O	2:C:439:LYS:HG2	1.96	0.65
2:C:944:ARG:HG3	2:C:944:ARG:O	1.96	0.65
3:D:1184:ASP:N	3:D:1185:PRO:HD3	2.11	0.65
1:G:17:GLU:O	1:G:25:LYS:N	2.19	0.65
2:I:344:GLY:HA3	2:I:346:TYR:CD1	2.31	0.65
2:I:421:SER:O	2:I:424:ASP:N	2.30	0.65
2:I:732:ILE:HD12	2:I:753:LEU:HD21	1.79	0.65
3:J:497:GLU:HB3	3:J:498:PRO:HD2	1.77	0.65
3:J:1156:LEU:HA	3:J:1210:ILE:HG12	1.79	0.65
4:K:26:ARG:NH1	4:K:29:GLN:OE1	2.30	0.65
5:L:111:LEU:HD13	5:L:115:GLY:C	2.18	0.65
1:A:57:THR:HG22	1:A:58:GLU:CG	2.26	0.65
1:A:179:PRO:HB3	1:A:208:ASN:HD21	1.61	0.65
2:C:5:TYR:HD1	2:C:8:LYS:HD3	1.62	0.65
2:C:384:LEU:HG	2:C:385:PHE:N	2.12	0.65
2:C:557:ARG:NH2	2:C:608:ALA:HA	2.09	0.65
2:C:854:ILE:HG23	2:C:855:PRO:HD2	1.77	0.65
2:C:1326:LEU:HD21	8:D:2004:4C4:C12	2.26	0.65
3:D:544:LEU:HD13	3:D:575:GLY:CA	2.27	0.65
3:D:684:ASP:O	3:D:687:ALA:HB3	1.96	0.65
5:F:235:ILE:HG23	5:F:242:HIS:NE2	2.12	0.65
5:F:266:PHE:O	5:F:270:VAL:HG23	1.96	0.65
5:F:346:GLN:HA	5:F:349:GLU:CD	2.18	0.65
5:F:440:THR:HG23	5:F:441:ARG:N	2.11	0.65
5:F:487:MET:HB3	5:F:489:MET:H	1.61	0.65
2:I:62:TYR:CZ	2:I:476:LYS:HB3	2.31	0.65
2:I:164:THR:HG21	2:I:171:LEU:HG	1.78	0.65
2:I:1250:SER:HB3	2:I:1259:LEU:O	1.97	0.65
3:J:352:ARG:HB2	3:J:467:ALA:HA	1.78	0.65
3:J:416:ILE:HG13	3:J:439:PRO:HG2	1.79	0.65
5:L:328:GLU:OE1	5:L:331:HIS:NE2	2.29	0.65
5:L:387:VAL:HG11	5:L:408:GLY:CA	2.26	0.65
1:A:176:CYS:O	1:A:178:SER:N	2.30	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:22:THR:OG1	1:B:207:THR:O	2.14	0.64
2:C:310:ILE:HD13	2:C:325:LEU:HB3	1.79	0.64
3:D:123:ARG:NH1	3:D:1334:GLU:HG3	2.12	0.64
3:D:235:GLU:OE2	3:D:235:GLU:N	2.27	0.64
3:D:530:PRO:O	3:D:533:ALA:N	2.29	0.64
1:G:77:ASP:OD2	2:I:755:LYS:HE3	1.97	0.64
2:I:331:LYS:HB2	2:I:332:ARG:NH2	2.11	0.64
2:I:705:GLU:CD	2:I:705:GLU:H	1.99	0.64
3:J:623:GLN:O	3:J:627:THR:HG22	1.97	0.64
1:A:107:ILE:HG23	1:A:134:THR:HA	1.78	0.64
1:A:112:ALA:HB2	1:A:130:ILE:HD11	1.80	0.64
2:C:338:THR:HG21	2:C:345:PRO:HB3	1.79	0.64
2:C:478:ARG:NH1	2:C:482:GLY:HA2	2.13	0.64
2:C:964:LEU:O	2:C:967:LEU:N	2.29	0.64
2:C:1002:LEU:HG	2:C:1003:THR:N	2.12	0.64
2:C:1142:ARG:CZ	2:C:1161:LEU:HD22	2.27	0.64
3:D:504:GLN:HG3	3:D:505:ASP:H	1.63	0.64
3:D:661:VAL:HG12	3:D:685:ILE:HD11	1.80	0.64
1:H:9:LEU:CB	1:H:32:GLU:HG2	2.26	0.64
1:H:115:ILE:HG22	1:H:116:THR:N	2.11	0.64
2:I:301:TYR:CE2	2:I:333:ILE:HG23	2.31	0.64
2:I:629:PHE:CD2	2:I:634:VAL:HG11	2.32	0.64
3:J:194:LEU:HD22	3:J:224:LEU:HD21	1.79	0.64
3:J:614:LEU:HB3	3:J:615:LYS:NZ	2.11	0.64
1:B:69:SER:O	1:B:78:ILE:HG13	1.98	0.64
1:B:182:ARG:NH1	1:B:182:ARG:HG3	2.12	0.64
2:C:898:GLU:OE1	2:C:898:GLU:N	2.19	0.64
2:C:1305:TYR:HE2	5:F:532:LEU:CA	2.11	0.64
2:C:1331:ARG:HD3	3:D:33:TRP:CE2	2.32	0.64
3:D:803:VAL:HG23	3:D:1313:SER:CA	2.27	0.64
3:D:1174:ARG:HA	3:D:1188:GLU:O	1.97	0.64
5:F:311:THR:HG22	5:F:344:LEU:HG	1.80	0.64
1:H:88:LEU:HD12	1:H:89:ALA:H	1.62	0.64
2:I:175:ARG:HG2	2:I:177:ILE:HG13	1.80	0.64
2:I:176:ILE:N	2:I:184:LEU:O	2.30	0.64
2:I:848:GLU:OE1	2:I:886:LYS:NZ	2.25	0.64
2:I:989:LEU:HD13	2:I:1000:LEU:CD1	2.26	0.64
3:J:295:GLU:OE1	5:L:406:GLN:HG2	1.98	0.64
5:L:525:ASP:OD1	5:L:526:THR:N	2.30	0.64
2:C:219:GLN:O	2:C:222:ASP:HB3	1.97	0.64
3:D:528:THR:CG2	3:D:532:GLU:HB3	2.28	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:574:VAL:O	3:D:578:ILE:HG13	1.97	0.64
3:D:811:GLU:OE1	3:D:890:THR:OG1	2.13	0.64
2:I:1329:GLU:O	2:I:1332:SER:OG	2.11	0.64
3:J:171:GLU:HB3	3:J:172:PHE:CD2	2.32	0.64
3:J:260:PHE:CB	5:L:504:PRO:CG	2.76	0.64
3:J:366:CYS:HB3	3:J:437:PHE:HD1	1.59	0.64
3:J:746:LEU:HG	3:J:758:PRO:CG	2.27	0.64
3:J:825:VAL:HG11	3:J:833:GLU:HB3	1.80	0.64
5:L:124:GLU:HG2	5:L:128:ASN:ND2	2.12	0.64
1:A:207:THR:HG22	1:A:208:ASN:N	2.12	0.64
1:B:99:ILE:HA	1:B:144:ILE:O	1.97	0.64
1:B:232:VAL:HG12	1:B:233:ASP:N	2.13	0.64
1:B:289:LEU:CD2	1:B:295:LEU:HD11	2.27	0.64
2:C:82:VAL:HG22	2:C:92:TYR:CD1	2.33	0.64
2:C:180:ARG:NH2	2:C:465:ARG:HH12	1.95	0.64
2:C:878:THR:HA	2:C:925:SER:CB	2.28	0.64
3:D:460:ASP:O	3:D:461:PHE:HD2	1.80	0.64
3:D:697:MET:HG3	3:D:698:MET:N	2.11	0.64
1:H:15:ASP:O	1:H:26:VAL:HG13	1.97	0.64
1:H:226:GLU:OE1	1:H:226:GLU:HA	1.98	0.64
2:I:61:SER:HG	2:I:66:SER:H	1.40	0.64
2:I:71:VAL:HB	2:I:99:LYS:HB2	1.79	0.64
2:I:269:ILE:N	2:I:269:ILE:HD12	2.13	0.64
2:I:1281:TYR:CE2	3:J:431:ARG:HB2	2.31	0.64
2:I:1304:MET:CE	2:I:1308:ILE:HD11	2.28	0.64
3:J:825:VAL:C	3:J:826:ILE:HG13	2.17	0.64
3:J:1199:PHE:HB2	3:J:1202:GLU:HB2	1.79	0.64
3:J:1280:VAL:HG21	3:J:1304:ARG:NE	2.12	0.64
5:L:355:ILE:HA	5:L:358:VAL:HG22	1.78	0.64
5:L:456:MET:O	5:L:459:THR:OG1	2.16	0.64
1:B:262:LEU:HD12	1:B:262:LEU:H	1.62	0.64
3:D:474:LEU:HD12	3:D:477:GLN:HE21	1.62	0.64
3:D:888:CYS:HB2	3:D:898:CYS:HB3	1.79	0.64
5:F:494:ILE:O	5:F:497:VAL:N	2.29	0.64
1:G:43:LEU:HD13	1:G:203:ILE:CD1	2.27	0.64
1:G:88:LEU:CD1	1:G:125:LYS:HG3	2.28	0.64
1:G:187:VAL:CG1	1:G:201:LEU:HD22	2.28	0.64
2:I:301:TYR:OH	2:I:333:ILE:HA	1.97	0.64
2:I:700:VAL:CG1	2:I:1114:GLU:HG3	2.19	0.64
3:J:85:CYS:HB3	3:J:88:CYS:O	1.98	0.64
3:J:265:LEU:CD1	3:J:330:MET:HE1	2.17	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:526:VAL:HA	3:J:549:LYS:O	1.97	0.64
3:J:835:LEU:HA	3:J:838:ARG:HG3	1.79	0.64
3:J:1322:ALA:HA	3:J:1325:PHE:CD2	2.32	0.64
1:A:159:ILE:HG13	1:A:162:GLU:HB2	1.80	0.64
1:A:223:ILE:HD11	1:B:8:PHE:HE2	1.62	0.64
1:B:156:SER:HA	1:B:157:THR:C	2.17	0.64
3:D:184:ALA:O	3:D:188:LEU:N	2.25	0.64
3:D:194:LEU:CD1	3:D:228:VAL:HG22	2.28	0.64
3:D:210:SER:O	3:D:213:LYS:HB2	1.98	0.64
3:D:598:LYS:HA	3:D:601:ILE:CG2	2.27	0.64
3:D:826:ILE:HA	3:D:831:VAL:HA	1.79	0.64
3:D:1171:GLY:HA2	3:D:1193:TRP:HH2	1.62	0.64
1:H:134:THR:OG1	1:H:135:ASP:OD1	2.15	0.64
2:I:57:PHE:CD1	2:I:70:TYR:HB2	2.33	0.64
2:I:83:GLN:O	2:I:87:ILE:HG13	1.98	0.64
2:I:151:ARG:NE	2:I:445:ILE:HD11	2.12	0.64
2:I:296:VAL:O	2:I:335:THR:HA	1.98	0.64
2:I:385:PHE:CE2	2:I:390:PHE:CE2	2.85	0.64
2:I:499:SER:O	2:I:503:LYS:HB2	1.98	0.64
2:I:615:VAL:HA	2:I:638:SER:OG	1.97	0.64
2:I:1292:THR:HG22	2:I:1293:VAL:N	2.11	0.64
3:J:392:THR:HG21	5:L:606:VAL:HG21	1.78	0.64
3:J:915:ILE:HA	3:J:918:ILE:HG23	1.79	0.64
3:J:1155:ILE:O	3:J:1210:ILE:HG12	1.96	0.64
4:K:71:GLU:HA	4:K:74:GLU:HG3	1.78	0.64
2:C:296:VAL:HG13	2:C:315:MET:O	1.97	0.64
2:C:1160:ASP:HB2	2:C:1161:LEU:HD12	1.80	0.64
3:D:107:LEU:HD12	3:D:240:THR:O	1.98	0.64
3:D:153:ASN:HB2	3:D:172:PHE:CZ	2.33	0.64
3:D:1156:LEU:HD12	3:D:1209:VAL:HA	1.79	0.64
3:D:1197:ASN:HB2	3:D:1212:ASP:OD2	1.98	0.64
4:E:52:ARG:O	4:E:56:GLU:HG2	1.97	0.64
5:F:361:ILE:HG13	5:F:362:ASN:N	2.13	0.64
5:F:505:ILE:HD12	5:F:506:SER:N	2.13	0.64
2:I:26:TYR:OH	2:I:28:LEU:HD12	1.98	0.64
2:I:698:PRO:HB3	2:I:1231:TYR:CD2	2.31	0.64
2:I:745:GLU:H	2:I:1017:GLN:HG3	1.62	0.64
2:I:870:ILE:CG1	2:I:1050:VAL:HG11	2.27	0.64
2:I:870:ILE:HG12	2:I:1050:VAL:HG11	1.80	0.64
2:I:920:VAL:HG13	2:I:921:PRO:HD2	1.80	0.64
2:I:1329:GLU:HA	3:J:245:LEU:HD11	1.78	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:71:LEU:HB3	3:J:88:CYS:SG	2.37	0.64
3:J:343:LEU:O	3:J:343:LEU:HD23	1.97	0.64
3:J:1167:LYS:CB	3:J:1174:ARG:HD3	2.28	0.64
5:L:558:VAL:HG11	5:L:590:ILE:CG2	2.28	0.64
2:C:217:THR:HG23	2:C:351:LEU:HD22	1.80	0.64
3:D:201:LEU:HA	3:D:204:GLU:OE2	1.98	0.64
3:D:849:LEU:HA	3:D:855:ASP:O	1.98	0.64
3:D:1160:SER:H	3:D:1206:ARG:HB3	1.62	0.64
3:D:1199:PHE:HB2	3:D:1202:GLU:CB	2.28	0.64
1:G:36:GLY:C	1:G:187:VAL:HG11	2.17	0.64
2:I:242:VAL:O	2:I:245:ARG:HB2	1.98	0.64
2:I:436:ARG:O	2:I:436:ARG:HD2	1.97	0.64
2:I:572:ILE:O	2:I:573:ASN:HB2	1.97	0.64
2:I:582:ASN:HD22	2:I:586:PHE:HB2	1.62	0.64
2:I:857:VAL:HG21	2:I:862:LEU:HD21	1.79	0.64
2:I:1233:LEU:HD22	2:I:1233:LEU:N	2.13	0.64
3:J:93:THR:HG22	3:J:94:GLN:H	1.62	0.64
3:J:668:PHE:HA	3:J:673:VAL:CG2	2.28	0.64
3:J:890:THR:OG1	3:J:895:CYS:HB3	1.98	0.64
1:A:66:HIS:HD1	1:A:66:HIS:C	2.00	0.64
1:A:233:ASP:O	1:A:234:LEU:HG	1.97	0.64
2:C:870:ILE:HG22	2:C:944:ARG:HD3	1.80	0.64
2:C:901:LEU:HB2	5:F:563:PHE:HD2	1.62	0.64
2:C:1106:ARG:O	2:C:1108:ASN:ND2	2.31	0.64
2:C:1192:GLU:HA	2:C:1195:ILE:CD1	2.26	0.64
3:D:140:TYR:HB3	5:F:100:MET:SD	2.38	0.64
3:D:193:ASP:HB3	3:D:196:GLN:HG2	1.80	0.64
5:F:394:TYR:CG	5:F:439:ILE:HD11	2.32	0.64
5:F:539:SER:OG	5:F:607:LEU:HD11	1.98	0.64
1:G:43:LEU:HD13	1:G:203:ILE:HD11	1.80	0.64
2:I:262:TYR:CZ	2:I:282:VAL:HG21	2.33	0.64
2:I:388:LEU:HB3	2:I:389:PHE:CE2	2.33	0.64
2:I:593:LYS:HE3	2:I:595:THR:HG22	1.79	0.64
2:I:915:ASP:OD1	2:I:917:SER:OG	2.12	0.64
3:J:221:ILE:O	3:J:225:GLU:HG2	1.97	0.64
3:J:674:THR:OG1	3:J:677:GLU:HB2	1.98	0.64
4:K:14:GLY:O	4:K:16:ARG:N	2.31	0.64
5:L:427:PHE:CE1	5:L:431:ALA:HB2	2.33	0.64
2:C:70:TYR:CZ	2:C:72:SER:HA	2.33	0.63
2:C:180:ARG:CZ	2:C:465:ARG:HH12	2.11	0.63
2:C:228:VAL:HB	2:C:335:THR:OG1	1.98	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1017:GLN:O	2:C:1021:LEU:HG	1.96	0.63
2:C:1142:ARG:HH22	2:C:1165:SER:HB2	1.63	0.63
2:C:1284:ALA:HB2	3:D:1361:THR:CB	2.24	0.63
2:C:1305:TYR:CD2	5:F:531:PRO:HB3	2.33	0.63
3:D:190:LYS:CA	3:D:235:GLU:HG3	2.28	0.63
5:F:279:ARG:O	5:F:282:THR:HB	1.98	0.63
1:H:158:ARG:NH2	1:H:177:TYR:OH	2.31	0.63
2:I:551:HIS:ND1	2:I:553:THR:OG1	2.30	0.63
2:I:802:VAL:CG2	2:I:1098:LEU:HD13	2.28	0.63
3:J:183:GLU:O	3:J:187:ALA:N	2.20	0.63
3:J:506:VAL:O	3:J:509:GLY:N	2.31	0.63
3:J:670:SER:HB2	3:J:672:LEU:CD1	2.27	0.63
5:L:358:VAL:HA	5:L:361:ILE:HD11	1.80	0.63
1:B:19:VAL:O	1:B:23:HIS:HB3	1.97	0.63
1:B:54:CYS:HB2	1:B:90:VAL:HB	1.79	0.63
1:B:205:MET:HG2	1:B:206:GLU:N	2.12	0.63
2:C:704:MET:O	2:C:707:ALA:N	2.31	0.63
2:C:1051:LYS:HB3	2:C:1053:TYR:HE1	1.62	0.63
2:C:1113:LEU:CG	3:D:641:ILE:HD11	2.27	0.63
2:C:1255:THR:HG22	2:C:1257:GLN:HG3	1.81	0.63
3:D:527:LEU:HB3	3:D:532:GLU:HG2	1.81	0.63
3:D:1145:PHE:O	3:D:1309:ILE:HG12	1.98	0.63
3:D:1193:TRP:HB2	3:D:1194:ARG:NH1	2.14	0.63
1:G:32:GLU:HB2	1:G:35:PHE:HD2	1.63	0.63
1:H:76:GLU:CG	1:H:80:GLU:HG2	2.28	0.63
2:I:111:GLU:H	2:I:111:GLU:CD	2.01	0.63
3:J:627:THR:HG23	3:J:628:GLY:N	2.13	0.63
3:J:644:MET:HB3	3:J:764:ARG:HG3	1.80	0.63
1:A:38:THR:C	1:A:39:LEU:HD23	2.17	0.63
2:C:209:ILE:CA	2:C:212:ALA:HB3	2.29	0.63
2:C:971:LEU:HD11	2:C:1018:TYR:HB2	1.80	0.63
3:D:97:VAL:C	3:D:99:ARG:H	2.02	0.63
3:D:171:GLU:HB3	3:D:172:PHE:CE2	2.33	0.63
3:D:193:ASP:HB3	3:D:196:GLN:HG3	1.80	0.63
3:D:902:ASP:O	3:D:903:LEU:HD22	1.98	0.63
3:D:1229:VAL:O	3:D:1232:TYR:N	2.30	0.63
5:F:304:THR:HG22	5:F:305:LEU:HD12	1.80	0.63
1:H:86:LYS:CD	1:H:174:ASP:HB2	2.28	0.63
2:I:884:VAL:CG1	2:I:1050:VAL:HG21	2.20	0.63
2:I:1080:ASN:HB2	2:I:1085:MET:HE3	1.79	0.63
2:I:1172:LEU:O	2:I:1176:LEU:HG	1.97	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:1313:HIS:HB2	3:J:474:LEU:HD22	1.79	0.63
2:I:1322:SER:OG	2:I:1323:PHE:N	2.29	0.63
3:J:325:LYS:HE3	3:J:330:MET:CG	2.21	0.63
3:J:336:GLY:O	3:J:338:PHE:N	2.27	0.63
3:J:615:LYS:HE2	3:J:616:PRO:HD3	1.81	0.63
3:J:1253:ILE:O	3:J:1257:VAL:HG23	1.99	0.63
3:J:1284:ARG:NH1	3:J:1284:ARG:O	2.32	0.63
5:L:387:VAL:HA	5:L:390:ILE:HD12	1.79	0.63
1:B:190:ALA:O	1:B:198:LEU:HB2	1.97	0.63
2:C:887:VAL:HB	2:C:913:VAL:CG2	2.29	0.63
2:C:980:VAL:HA	2:C:984:VAL:HA	1.80	0.63
2:C:994:ARG:HD2	2:C:997:TRP:CH2	2.33	0.63
2:C:1201:LEU:HD12	2:C:1201:LEU:O	1.98	0.63
3:D:450:HIS:HE1	3:D:452:LEU:HD12	1.63	0.63
3:D:491:LEU:HB2	3:D:904:ALA:O	1.98	0.63
2:I:38:PHE:HB2	2:I:457:GLY:HA2	1.80	0.63
2:I:421:SER:H	2:I:424:ASP:HB2	1.63	0.63
2:I:746:ALA:HB2	2:I:974:ARG:NE	2.11	0.63
2:I:1120:ALA:HB2	2:I:1199:LEU:HD23	1.79	0.63
2:I:1120:ALA:O	2:I:1124:ILE:HG12	1.98	0.63
3:J:58:CYS:SG	3:J:60:ARG:HB3	2.39	0.63
3:J:357:VAL:HG22	3:J:461:PHE:CE1	2.33	0.63
4:K:24:ALA:O	4:K:27:ALA:N	2.31	0.63
1:B:102:LEU:HD21	1:B:114:ASP:O	1.99	0.63
1:B:134:THR:OG1	1:B:135:ASP:N	2.32	0.63
2:C:516:ASP:OD1	2:C:761:GLN:NE2	2.31	0.63
2:C:756:TYR:HD1	2:C:756:TYR:N	1.86	0.63
2:C:810:TYR:CE1	2:C:1078:LYS:CD	2.79	0.63
2:C:971:LEU:HD13	2:C:1018:TYR:HB2	1.79	0.63
2:C:1101:LEU:O	3:D:731:ARG:HD3	1.99	0.63
3:D:291:ILE:HD11	5:F:409:ASN:HB3	1.80	0.63
3:D:307:LEU:O	3:D:328:ALA:HB2	1.99	0.63
3:D:425:ARG:HG2	3:D:426:ALA:N	2.07	0.63
3:D:703:THR:O	3:D:705:THR:N	2.30	0.63
3:D:805:GLN:HG2	3:D:806:ASP:OD2	1.98	0.63
2:I:157:PHE:N	2:I:443:ASP:OD2	2.26	0.63
2:I:1043:ALA:HB1	2:I:1044:PRO:CD	2.28	0.63
3:J:311:ARG:C	3:J:312:ARG:HG2	2.19	0.63
3:J:495:ASN:C	3:J:497:GLU:H	1.98	0.63
5:L:387:VAL:HG11	5:L:408:GLY:C	2.19	0.63
1:B:78:ILE:HG22	1:B:79:LEU:N	2.13	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1192:GLU:OE2	3:D:764:ARG:NH1	2.23	0.63
3:D:799:ARG:O	3:D:802:ASP:HB2	1.99	0.63
3:D:1183:SER:CA	3:J:206:ASN:HD21	2.11	0.63
2:I:318:SER:O	2:I:321:LEU:HB2	1.96	0.63
2:I:445:ILE:HG22	2:I:446:ASP:OD1	1.99	0.63
2:I:1331:ARG:HG2	3:J:33:TRP:CZ3	2.34	0.63
3:J:210:SER:HB2	3:J:213:LYS:CG	2.29	0.63
3:J:355:ILE:HG22	3:J:447:ILE:HB	1.80	0.63
3:J:661:VAL:O	3:J:665:GLN:N	2.20	0.63
3:J:664:ILE:HA	3:J:667:GLN:OE1	1.98	0.63
3:J:678:ARG:CG	3:J:679:TYR:N	2.60	0.63
3:J:691:ASP:HA	3:J:694:SER:HB3	1.80	0.63
3:J:1234:VAL:CA	3:J:1237:VAL:HG12	2.27	0.63
5:L:227:GLN:CB	5:L:255:VAL:HG21	2.28	0.63
5:L:240:ARG:CB	5:L:244:THR:HB	2.25	0.63
5:L:404:LEU:HD12	5:L:404:LEU:H	1.64	0.63
5:L:497:VAL:HG12	5:L:498:LEU:N	2.13	0.63
1:A:169:GLY:O	1:A:171:LEU:HD22	1.99	0.63
2:C:303:ASP:CG	2:C:306:THR:HG22	2.18	0.63
2:C:468:LEU:O	2:C:471:VAL:N	2.31	0.63
2:C:699:LEU:HG	2:C:799:ASN:OD1	1.99	0.63
2:C:756:TYR:HE1	2:C:766:ASN:ND2	1.96	0.63
2:C:856:ASN:ND2	5:F:609:SER:O	2.29	0.63
2:C:890:LYS:H	2:C:913:VAL:HA	1.63	0.63
2:C:901:LEU:CD1	2:C:905:ILE:HD11	2.28	0.63
2:C:921:PRO:HB2	2:C:924:VAL:CG2	2.28	0.63
3:D:45:ASN:OD1	3:D:47:ARG:N	2.31	0.63
3:D:62:PHE:CD2	3:D:247:PRO:CG	2.81	0.63
3:D:161:THR:HG22	3:D:164:GLN:CD	2.19	0.63
3:D:197:GLU:O	3:D:201:LEU:HG	1.99	0.63
3:D:351:GLY:O	3:D:352:ARG:HB3	1.98	0.63
3:D:369:PRO:HG3	3:D:446:ALA:O	1.99	0.63
3:D:1372:ARG:HE	3:J:854:ALA:CB	2.11	0.63
4:E:19:LEU:HD12	4:E:19:LEU:O	1.99	0.63
1:G:91:ARG:HD3	1:G:210:THR:O	1.98	0.63
1:H:57:THR:CG2	1:H:158:ARG:HH21	2.11	0.63
2:I:18:ARG:N	2:I:1188:ASP:OD2	2.28	0.63
2:I:529:ARG:O	2:I:530:ILE:HG12	1.98	0.63
2:I:629:PHE:CZ	2:I:650:VAL:HG21	2.34	0.63
2:I:794:LEU:HG	2:I:796:LEU:HD11	1.81	0.63
2:I:1287:LEU:O	2:I:1290:MET:N	2.31	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:278:ARG:HA	3:J:281:ARG:NH1	2.13	0.63
3:J:834:PRO:O	3:J:838:ARG:HG2	1.99	0.63
3:J:1167:LYS:CB	3:J:1174:ARG:HH11	2.12	0.63
3:J:1206:ARG:NH2	3:J:1223:LEU:O	2.31	0.63
1:A:9:LEU:HB2	1:A:32:GLU:HG2	1.80	0.63
2:C:155:VAL:HG23	2:C:175:ARG:O	1.98	0.63
2:C:277:LEU:HA	2:C:280:ASP:HB2	1.80	0.63
2:C:806:PRO:HD3	2:C:1100:PRO:HG2	1.81	0.63
2:C:817:LEU:HD21	2:C:1085:MET:CE	2.28	0.63
2:C:971:LEU:HD23	2:C:972:PHE:N	2.14	0.63
3:D:74:LYS:HB3	3:D:75:TYR:CD1	2.34	0.63
3:D:718:SER:OG	3:D:719:PHE:N	2.31	0.63
5:F:281:ARG:CZ	5:F:281:ARG:HB2	2.29	0.63
5:F:345:GLN:O	5:F:349:GLU:HG3	1.98	0.63
1:G:18:GLN:HA	1:G:24:ALA:CB	2.29	0.63
1:H:22:THR:O	1:H:207:THR:OG1	2.15	0.63
1:H:47:LEU:O	1:H:180:VAL:HG21	1.98	0.63
3:J:62:PHE:CD1	3:J:247:PRO:HD3	2.34	0.63
3:J:101:ARG:O	3:J:246:PRO:HG3	1.98	0.63
3:J:125:GLY:O	3:J:128:LEU:N	2.31	0.63
3:J:260:PHE:HB2	5:L:504:PRO:HG3	1.78	0.63
3:J:364:HIS:HB3	4:K:4:VAL:HG23	1.80	0.63
5:L:542:ALA:O	5:L:546:ASP:HB2	1.98	0.63
1:B:100:LEU:HG	1:B:116:THR:HG23	1.81	0.63
2:C:245:ARG:CZ	2:C:337:PHE:HD2	2.11	0.63
2:C:478:ARG:O	2:C:481:LEU:HD22	1.99	0.63
2:C:490:GLN:CD	5:F:472:GLN:HB3	2.19	0.63
2:C:1233:LEU:N	2:C:1233:LEU:HD12	2.14	0.63
3:D:425:ARG:NE	3:D:426:ALA:HB3	2.13	0.63
3:D:527:LEU:HD23	3:D:532:GLU:HG2	1.80	0.63
3:D:813:ASP:OD1	3:D:883:ARG:NH1	2.31	0.63
2:I:74:ARG:NH1	2:I:121:GLU:OE1	2.32	0.63
2:I:931:VAL:HG22	2:I:1052:VAL:HG13	1.81	0.63
3:J:611:ILE:HG22	3:J:612:LEU:HD12	1.80	0.63
3:J:833:GLU:OE2	3:J:834:PRO:HD2	1.99	0.63
5:L:101:TYR:CE2	5:L:405:ILE:HD11	2.33	0.63
5:L:485:GLU:C	5:L:487:MET:H	2.02	0.63
1:A:235:ARG:N	1:A:235:ARG:HD2	2.14	0.62
1:B:76:GLU:H	1:B:76:GLU:CD	1.99	0.62
2:C:325:LEU:HD12	2:C:326:SER:N	2.13	0.62
2:C:670:PHE:CD1	2:C:1184:THR:HG21	2.34	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:718:ALA:HB3	2:C:780:GLY:H	1.64	0.62
2:C:724:VAL:HG11	2:C:727:VAL:HG23	1.80	0.62
2:C:1113:LEU:HD11	3:D:641:ILE:CG1	2.29	0.62
2:C:1122:LYS:HG2	2:C:1229:TYR:CZ	2.33	0.62
3:D:62:PHE:O	3:D:101:ARG:HD2	1.99	0.62
3:D:660:GLU:HB3	3:D:685:ILE:CD1	2.29	0.62
3:D:1163:VAL:HG21	3:D:1175:LEU:HD21	1.81	0.62
5:F:498:LEU:H	5:F:498:LEU:HD22	1.63	0.62
1:G:80:GLU:HG2	1:G:84:ASN:HD21	1.64	0.62
1:H:65:LEU:HD22	1:H:171:LEU:HD21	1.80	0.62
2:I:76:GLY:C	2:I:95:PRO:HD2	2.19	0.62
2:I:214:ASN:HB2	2:I:359:ARG:HD2	1.80	0.62
2:I:490:GLN:HE21	5:L:472:GLN:CB	2.12	0.62
2:I:1287:LEU:HD23	2:I:1288:GLN:CA	2.29	0.62
3:J:435:GLN:HG2	3:J:489:ASN:HD22	1.63	0.62
3:J:511:TYR:HA	3:J:514:THR:HG23	1.80	0.62
3:J:1319:PHE:CE1	3:J:1320:ILE:HG13	2.33	0.62
5:L:265:GLN:O	5:L:268:TYR:HB3	1.98	0.62
5:L:599:ARG:C	5:L:601:PRO:HD3	2.19	0.62
1:A:184:ALA:HB2	2:C:1091:GLY:HA3	1.80	0.62
1:B:20:SER:OG	1:B:22:THR:HG22	1.99	0.62
2:C:41:GLN:NE2	2:C:73:TYR:O	2.32	0.62
2:C:70:TYR:HA	2:C:100:LEU:HD23	1.80	0.62
2:C:229:ILE:HB	2:C:240:GLU:CD	2.20	0.62
2:C:538:LEU:HD12	2:C:538:LEU:N	2.13	0.62
3:D:80:HIS:CB	3:D:83:VAL:HG11	2.27	0.62
3:D:198:CYS:O	3:D:201:LEU:N	2.32	0.62
3:D:1169:THR:O	3:D:1171:GLY:N	2.32	0.62
3:D:1266:ILE:HA	3:D:1302:TYR:HA	1.80	0.62
1:H:11:PRO:HG3	1:H:31:LEU:CD1	2.30	0.62
2:I:720:ARG:NH2	2:I:741:MET:HG3	2.13	0.62
2:I:722:GLY:HA2	2:I:737:ASN:OD1	1.99	0.62
2:I:953:LEU:HA	2:I:1036:ILE:HD13	1.79	0.62
2:I:1086:PRO:O	2:I:1094:VAL:HG12	1.99	0.62
2:I:1191:LYS:NZ	2:I:1192:GLU:HB2	2.13	0.62
2:I:1200:LYS:O	2:I:1203:ASP:N	2.22	0.62
2:I:1211:ARG:HB2	2:I:1220:GLN:NE2	2.06	0.62
2:I:1223:ARG:HG3	3:J:635:SER:O	1.99	0.62
2:I:1239:VAL:O	2:I:1242:LYS:N	2.32	0.62
2:I:1305:TYR:OH	5:L:532:LEU:HD23	1.99	0.62
3:J:288:PRO:O	3:J:292:VAL:HG13	1.99	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:399:ALA:O	2:C:403:MET:HB2	2.00	0.62
2:C:979:LEU:HD11	2:C:1011:LEU:CD1	2.30	0.62
3:D:118:LYS:O	3:D:120:LEU:N	2.32	0.62
3:D:214:ARG:O	3:D:218:THR:HG22	1.99	0.62
3:D:548:VAL:HG12	3:D:549:LYS:O	2.00	0.62
3:D:882:VAL:HG12	3:D:883:ARG:N	2.13	0.62
3:D:1237:VAL:HG11	3:D:1253:ILE:HD13	1.81	0.62
3:D:1371:ARG:O	3:D:1375:ALA:HB2	1.99	0.62
1:G:23:HIS:HE1	1:G:204:GLU:HG3	1.64	0.62
2:I:1131:MET:O	2:I:1135:GLN:N	2.32	0.62
5:L:295:CYS:SG	5:L:330:LEU:HD23	2.38	0.62
1:B:112:ALA:HA	1:B:115:ILE:CD1	2.30	0.62
2:C:122:VAL:HG23	5:F:472:GLN:HG2	1.81	0.62
2:C:720:ARG:HH21	2:C:741:MET:HA	1.64	0.62
2:C:852:ALA:HB2	2:C:869:GLY:HA2	1.81	0.62
3:D:430:HIS:O	3:D:432:LEU:N	2.33	0.62
3:D:600:ALA:O	3:D:603:LYS:HG2	1.99	0.62
3:D:820:ILE:O	3:D:882:VAL:N	2.31	0.62
3:D:1307:LEU:HD11	3:D:1311:LYS:HG2	1.80	0.62
5:F:240:ARG:HB3	5:F:244:THR:HB	1.82	0.62
5:F:297:MET:HE3	5:F:330:LEU:HD21	1.80	0.62
2:I:796:LEU:HD12	2:I:796:LEU:N	2.14	0.62
2:I:932:GLN:HB3	2:I:934:PHE:CE2	2.34	0.62
3:J:403:ARG:HG3	3:J:403:ARG:NH1	2.12	0.62
3:J:580:TRP:HB2	3:J:589:TYR:CE1	2.34	0.62
5:L:387:VAL:HG22	5:L:435:ILE:HD13	1.80	0.62
1:A:50:SER:CB	1:B:8:PHE:HZ	2.07	0.62
2:C:63:SER:C	2:C:65:ASN:H	2.00	0.62
3:D:60:ARG:HG3	3:D:89:GLY:HA3	1.81	0.62
3:D:580:TRP:HH2	3:D:587:LEU:O	1.81	0.62
3:D:801:VAL:O	3:D:805:GLN:HB2	1.99	0.62
3:D:1160:SER:HB2	3:D:1206:ARG:HG2	1.81	0.62
3:D:1229:VAL:HG13	3:D:1230:THR:H	1.64	0.62
5:F:419:PHE:O	5:F:420:GLU:HB2	1.99	0.62
5:F:559:LEU:O	5:F:562:ARG:N	2.33	0.62
1:H:101:THR:HG22	1:H:116:THR:HG21	1.80	0.62
2:I:30:ILE:HD12	2:I:30:ILE:N	2.14	0.62
2:I:245:ARG:HG2	2:I:337:PHE:HE2	1.60	0.62
2:I:901:LEU:O	2:I:905:ILE:HG13	1.98	0.62
2:I:1073:LYS:CB	3:J:462:ASP:HB2	2.30	0.62
2:I:1223:ARG:HB3	2:I:1223:ARG:CZ	2.30	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:492:SER:HB2	3:J:499:ILE:HD13	1.81	0.62
3:J:1313:SER:O	3:J:1315:ALA:N	2.32	0.62
2:C:209:ILE:O	2:C:213:LEU:N	2.33	0.62
2:C:242:VAL:CG2	2:C:245:ARG:HD2	2.29	0.62
2:C:885:GLY:HA2	2:C:917:SER:HB3	1.80	0.62
2:C:927:THR:O	2:C:1054:LEU:HD12	2.00	0.62
2:C:1209:GLN:HB3	2:C:1224:PRO:HB2	1.81	0.62
2:C:1238:LEU:H	2:C:1238:LEU:CD1	1.99	0.62
3:D:426:ALA:CB	3:D:427:PRO:CD	2.77	0.62
3:D:674:THR:HG23	3:D:677:GLU:HB2	1.81	0.62
3:D:864:LEU:N	3:D:864:LEU:HD23	2.14	0.62
3:D:923:ILE:HA	3:D:1248:ILE:CD1	2.29	0.62
5:F:536:THR:O	5:F:539:SER:N	2.32	0.62
2:I:216:THR:H	2:I:219:GLN:HB2	1.63	0.62
2:I:593:LYS:HA	2:I:652:TYR:CD2	2.34	0.62
2:I:665:ALA:C	2:I:667:LEU:H	2.03	0.62
2:I:892:GLU:HG3	2:I:892:GLU:O	2.00	0.62
3:J:138:VAL:HG11	3:J:145:VAL:CG1	2.29	0.62
1:B:99:ILE:HG13	1:B:144:ILE:C	2.20	0.62
1:B:112:ALA:HA	1:B:115:ILE:CG1	2.29	0.62
1:B:146:VAL:HG23	1:B:147:GLN:N	2.15	0.62
2:C:5:TYR:C	2:C:7:GLU:H	2.01	0.62
2:C:944:ARG:HA	2:C:947:GLU:HG3	1.80	0.62
2:C:985:GLU:HB2	2:C:989:LEU:HB2	1.82	0.62
3:D:198:CYS:C	3:D:202:ARG:HG3	2.20	0.62
3:D:611:ILE:C	3:D:612:LEU:HD12	2.20	0.62
3:D:772:TYR:O	3:D:775:SER:HB3	1.98	0.62
5:F:232:ARG:O	5:F:236:LYS:HG3	2.00	0.62
5:F:575:GLU:HA	5:F:578:LYS:CG	2.29	0.62
5:F:584:ARG:O	5:F:587:ILE:HG22	2.00	0.62
1:G:182:ARG:O	1:G:183:ILE:HD12	2.00	0.62
2:I:115:LYS:HD3	2:I:116:ASP:N	2.14	0.62
2:I:159:SER:OG	2:I:160:ASP:N	2.32	0.62
2:I:316:GLU:OE2	2:I:316:GLU:N	2.22	0.62
2:I:395:TYR:HE2	2:I:397:LEU:CD1	2.12	0.62
3:J:111:THR:HG23	3:J:300:GLN:OE1	1.99	0.62
3:J:614:LEU:H	3:J:615:LYS:HZ1	1.48	0.62
3:J:1343:GLU:HG3	3:J:1373:ARG:HH22	1.63	0.62
1:A:27:THR:C	1:A:28:LEU:HD12	2.19	0.62
1:A:45:ARG:HG2	1:B:38:THR:CB	2.28	0.62
2:C:201:ARG:HG2	2:C:201:ARG:NH1	2.12	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:312:ALA:HB3	2:C:315:MET:CE	2.30	0.62
2:C:577:VAL:HG23	2:C:661:VAL:O	2.00	0.62
2:C:658:GLN:O	2:C:660:VAL:N	2.32	0.62
3:D:482:ALA:HA	4:E:6:VAL:HG11	1.82	0.62
5:F:540:LEU:O	5:F:544:THR:OG1	2.14	0.62
1:G:124:VAL:HB	1:G:210:THR:HG22	1.82	0.62
1:H:100:LEU:HD21	1:H:121:VAL:HG11	1.81	0.62
2:I:119:GLU:CG	2:I:489:PRO:HD2	2.30	0.62
2:I:1030:GLU:OE1	2:I:1033:ARG:NH2	2.33	0.62
2:I:1087:TYR:CE1	2:I:1215:GLY:HA2	2.32	0.62
2:I:1285:TYR:CE1	3:J:1361:THR:HG21	2.35	0.62
3:J:615:LYS:O	3:J:619:ILE:HG22	2.00	0.62
3:J:647:PRO:HG3	3:J:697:MET:CA	2.29	0.62
3:J:751:ASP:HB3	3:J:753:SER:OG	2.00	0.62
3:J:827:GLU:HB2	3:J:832:LYS:HB2	1.81	0.62
2:C:42:ASP:O	2:C:44:GLU:N	2.28	0.62
2:C:260:LYS:HE3	2:C:262:TYR:CD1	2.35	0.62
2:C:550:VAL:CG1	3:D:777:HIS:HA	2.29	0.62
2:C:1293:VAL:HG22	2:C:1300:GLY:CA	2.29	0.62
3:D:361:LEU:HD22	3:D:366:CYS:HA	1.80	0.62
3:D:545:HIS:ND1	3:D:545:HIS:N	2.48	0.62
3:D:692:ARG:O	3:D:696:ALA:N	2.32	0.62
5:F:235:ILE:HA	5:F:242:HIS:HE1	1.63	0.62
1:H:86:LYS:HD3	1:H:174:ASP:HB2	1.82	0.62
2:I:211:ARG:HH22	2:I:351:LEU:CD2	2.12	0.62
2:I:560:PRO:HD3	2:I:660:VAL:O	2.00	0.62
2:I:629:PHE:CE2	2:I:634:VAL:HG11	2.34	0.62
3:J:161:THR:HG22	3:J:164:GLN:CD	2.19	0.62
3:J:424:ASN:ND2	3:J:467:ALA:HB3	2.15	0.62
3:J:474:LEU:HD13	3:J:477:GLN:HE21	1.65	0.62
3:J:826:ILE:HA	3:J:831:VAL:N	2.15	0.62
5:L:479:THR:O	5:L:479:THR:OG1	2.18	0.62
1:A:60:GLU:HB3	1:A:143:ARG:HB2	1.80	0.62
1:A:164:ASP:OD1	1:A:166:ARG:HB2	1.99	0.62
2:C:122:VAL:HG23	5:F:472:GLN:CG	2.30	0.62
2:C:756:TYR:HE1	2:C:766:ASN:CG	2.03	0.62
2:C:921:PRO:O	2:C:924:VAL:HG22	1.99	0.62
2:C:1305:TYR:HE2	5:F:532:LEU:N	1.97	0.62
3:D:117:LEU:C	3:D:118:LYS:HG2	2.20	0.62
3:D:205:LEU:HB2	3:D:217:LEU:HD11	1.82	0.62
3:D:923:ILE:HA	3:D:1248:ILE:HD11	1.81	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1157:ALA:CB	3:D:1206:ARG:HA	2.30	0.62
5:F:231:THR:HG21	5:F:249:ILE:HA	1.82	0.62
5:F:279:ARG:HA	5:F:282:THR:HB	1.81	0.62
1:G:92:VAL:HA	1:G:120:ASP:O	2.00	0.62
1:G:211:ILE:HD13	1:G:212:ASP:H	1.64	0.62
2:I:75:LEU:CD1	2:I:127:ILE:HD11	2.29	0.62
2:I:943:LYS:HE2	2:I:947:GLU:OE1	1.99	0.62
2:I:992:LEU:HB2	2:I:993:PRO:HD2	1.82	0.62
3:J:320:ASN:HD21	3:J:322:ARG:HB3	1.65	0.62
3:J:321:LYS:HG2	3:J:322:ARG:N	2.15	0.62
3:J:606:ASN:O	3:J:610:ARG:HD3	1.98	0.62
3:J:1137:GLY:N	3:J:1140:ARG:HB3	2.14	0.62
3:J:1352:ILE:N	3:J:1352:ILE:HD12	2.14	0.62
5:L:563:PHE:C	5:L:565:ILE:H	2.02	0.62
1:B:27:THR:HA	1:B:202:VAL:HA	1.81	0.61
1:B:75:GLN:HG2	1:B:76:GLU:N	2.15	0.61
1:B:80:GLU:HG3	1:B:80:GLU:O	2.00	0.61
1:B:285:THR:OG1	1:B:287:VAL:HG23	2.00	0.61
1:B:302:GLU:HA	1:B:305:ASP:OD2	2.00	0.61
2:C:93:SER:HA	2:C:129:LEU:HD12	1.82	0.61
2:C:406:ASN:HD22	2:C:413:GLU:HB2	1.64	0.61
2:C:1116:HIS:O	2:C:1119:MET:HB3	2.00	0.61
3:D:339:ARG:CB	3:D:340:GLN:HA	2.30	0.61
5:F:516:ASP:OD2	5:F:516:ASP:N	2.33	0.61
2:I:242:VAL:CB	2:I:245:ARG:HD2	2.30	0.61
2:I:1145:ILE:HG22	2:I:1146:GLN:N	2.15	0.61
1:B:85:LEU:O	1:B:87:GLY:N	2.32	0.61
2:C:802:VAL:HG12	2:C:1228:GLY:O	1.99	0.61
3:D:411:ILE:O	3:D:414:GLU:HB2	2.00	0.61
3:D:599:LYS:HD2	3:D:600:ALA:CB	2.29	0.61
4:E:58:LEU:HD12	4:E:58:LEU:N	2.14	0.61
1:G:218:ARG:CD	1:H:233:ASP:H	2.11	0.61
1:H:89:ALA:HB3	1:H:124:VAL:CG1	2.30	0.61
1:H:192:VAL:O	1:H:195:ARG:N	2.33	0.61
1:H:217:ILE:O	1:H:220:ALA:HB3	2.00	0.61
2:I:378:ARG:NH1	2:I:382:GLU:OE2	2.33	0.61
2:I:452:ARG:HG2	2:I:453:ILE:N	2.14	0.61
2:I:766:ASN:OD1	2:I:767:GLN:N	2.33	0.61
2:I:807:TRP:NE1	2:I:1086:PRO:HG3	2.15	0.61
2:I:815:SER:HB3	3:J:461:PHE:CD1	2.35	0.61
2:I:902:LEU:HA	2:I:905:ILE:HD12	1.81	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:1004:ASP:OD1	2:I:1004:ASP:N	2.34	0.61
2:I:1183:ALA:O	2:I:1185:PRO:HD3	2.00	0.61
3:J:1172:LYS:HA	3:J:1191:PRO:HA	1.82	0.61
5:L:283:GLN:O	5:L:286:LEU:HB3	2.00	0.61
5:L:422:ARG:O	5:L:423:ARG:HG3	2.00	0.61
1:A:45:ARG:HH22	2:C:1216:ARG:HA	1.65	0.61
1:B:92:VAL:HG11	1:B:95:LYS:HB3	1.82	0.61
2:C:130:MET:CG	2:C:134:GLY:HA2	2.30	0.61
2:C:397:LEU:HD23	2:C:402:ARG:N	2.14	0.61
2:C:551:HIS:ND1	2:C:553:THR:OG1	2.30	0.61
2:C:666:SER:HA	2:C:1186:VAL:HG21	1.81	0.61
3:D:16:GLU:HG3	3:D:1369:ARG:NH2	2.14	0.61
3:D:22:ILE:HG12	3:D:23:ALA:N	2.14	0.61
3:D:97:VAL:O	3:D:99:ARG:N	2.34	0.61
3:D:199:GLU:HA	3:D:202:ARG:CD	2.30	0.61
3:D:205:LEU:CD2	3:D:217:LEU:HG	2.27	0.61
3:D:759:ILE:HD13	3:D:771:GLN:HG2	1.81	0.61
5:F:121:LYS:HG2	5:F:421:TYR:CZ	2.35	0.61
5:F:377:LYS:O	5:F:380:VAL:HG12	2.01	0.61
1:G:137:ASN:N	1:G:137:ASN:OD1	2.32	0.61
2:I:159:SER:O	2:I:160:ASP:HB2	2.00	0.61
2:I:702:THR:HA	2:I:1184:THR:O	1.99	0.61
2:I:800:MET:HE2	2:I:1096:ILE:HD11	1.81	0.61
2:I:1024:GLU:HA	2:I:1027:LYS:HD3	1.80	0.61
2:I:1106:ARG:O	2:I:1108:ASN:N	2.31	0.61
2:I:1202:GLY:O	2:I:1203:ASP:HB2	1.98	0.61
2:I:1293:VAL:HG13	2:I:1301:ARG:N	2.16	0.61
3:J:1155:ILE:C	3:J:1156:LEU:HD13	2.21	0.61
2:C:70:TYR:HA	2:C:100:LEU:CD2	2.30	0.61
2:C:564:PRO:HA	2:C:684:ASN:HD21	1.65	0.61
2:C:883:LEU:CB	2:C:918:LEU:HD11	2.24	0.61
2:C:1002:LEU:HG	2:C:1003:THR:H	1.64	0.61
3:D:111:THR:HG23	3:D:300:GLN:OE1	2.00	0.61
3:D:358:GLY:N	3:D:359:PRO:HD3	2.15	0.61
3:D:491:LEU:O	3:D:904:ALA:HA	2.00	0.61
4:E:39:VAL:HG13	4:E:52:ARG:HH21	1.64	0.61
5:F:413:MET:O	5:F:416:VAL:HG12	2.00	0.61
1:G:28:LEU:HD23	1:H:231:PHE:CE1	2.32	0.61
2:I:198:ILE:HG22	2:I:199:ASP:CG	2.21	0.61
2:I:1111:GLN:O	2:I:1115:THR:OG1	2.18	0.61
3:J:426:ALA:HB3	3:J:427:PRO:CD	2.26	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:457:TYR:O	3:J:458:ASN:HB3	2.00	0.61
5:L:271:ASN:O	5:L:275:VAL:HG23	2.00	0.61
5:L:524:GLU:HG3	5:L:525:ASP:O	1.99	0.61
1:A:57:THR:CG2	1:A:158:ARG:HH12	2.13	0.61
2:C:481:LEU:HD13	2:C:481:LEU:N	2.16	0.61
2:C:894:GLN:HE22	3:D:77:ARG:NH1	1.96	0.61
2:C:1004:ASP:OD1	2:C:1004:ASP:N	2.29	0.61
2:C:1024:GLU:O	2:C:1027:LYS:HG3	2.00	0.61
3:D:27:PRO:O	3:D:31:ARG:HG3	1.99	0.61
3:D:279:LEU:HD12	3:D:295:GLU:HB3	1.80	0.61
3:D:923:ILE:O	3:D:926:PRO:HD2	1.99	0.61
3:D:1267:VAL:N	3:D:1301:THR:O	2.27	0.61
5:F:508:GLU:HA	5:F:508:GLU:OE2	2.01	0.61
5:F:573:LEU:H	5:F:573:LEU:HD13	1.66	0.61
1:H:53:GLY:HA3	1:H:177:TYR:O	2.01	0.61
2:I:631:GLU:OE1	2:I:631:GLU:N	2.32	0.61
2:I:1075:VAL:HG23	3:J:463:GLY:N	2.15	0.61
3:J:400:MET:HA	3:J:405:GLU:OE2	2.00	0.61
3:J:488:ASN:OD1	3:J:488:ASN:N	2.32	0.61
3:J:618:VAL:O	3:J:621:ALA:N	2.32	0.61
3:J:749:LYS:HB2	3:J:750:PRO:CD	2.30	0.61
5:L:262:VAL:HG12	5:L:264:LYS:HD3	1.82	0.61
1:A:231:PHE:HD2	1:B:43:LEU:HD21	1.63	0.61
1:B:14:VAL:HB	1:B:28:LEU:HD13	1.82	0.61
1:B:255:ARG:CG	1:B:255:ARG:NH1	2.59	0.61
2:C:225:PHE:CZ	2:C:347:ILE:HB	2.36	0.61
2:C:517:GLN:NE2	2:C:760:ASN:H	1.99	0.61
2:C:1145:ILE:HG22	2:C:1146:GLN:N	2.14	0.61
3:D:133:ARG:HH22	5:F:95:THR:HG22	1.64	0.61
3:D:343:LEU:HD23	3:D:343:LEU:O	2.00	0.61
3:D:843:VAL:HG11	3:D:897:HIS:O	2.01	0.61
3:D:1322:ALA:HA	3:D:1325:PHE:HD1	1.64	0.61
1:G:217:ILE:O	1:G:220:ALA:HB3	2.00	0.61
2:I:976:ARG:NH2	2:I:990:ASP:OD2	2.33	0.61
2:I:1116:HIS:HE1	3:J:641:ILE:H	1.44	0.61
3:J:436:ALA:HB3	3:J:485:MET:HA	1.82	0.61
5:L:560:ARG:HA	5:L:565:ILE:HG23	1.83	0.61
1:B:101:THR:O	1:B:116:THR:HG22	2.01	0.61
1:B:286:GLU:HA	1:B:289:LEU:HB2	1.81	0.61
2:C:277:LEU:HD23	2:C:282:VAL:HG21	1.83	0.61
3:D:742:GLY:O	3:D:762:ASN:HB3	2.01	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:788:LEU:HD12	3:D:791:ALA:HB3	1.81	0.61
2:I:582:ASN:HB3	2:I:586:PHE:N	2.14	0.61
2:I:669:PRO:HB3	2:I:702:THR:HG22	1.81	0.61
3:J:847:ASP:OD1	3:J:860:ARG:HD2	2.00	0.61
3:J:903:LEU:CB	3:J:905:ARG:HG3	2.30	0.61
3:J:1238:GLN:O	3:J:1242:ARG:N	2.21	0.61
1:B:149:GLY:HA3	1:B:177:TYR:CE2	2.36	0.61
2:C:213:LEU:O	2:C:214:ASN:HB3	2.01	0.61
2:C:870:ILE:HG22	2:C:944:ARG:HH11	1.66	0.61
3:D:410:ASP:O	3:D:413:ASP:HB2	2.01	0.61
3:D:473:THR:O	3:D:477:GLN:HG3	2.01	0.61
3:D:805:GLN:HG2	3:D:806:ASP:H	1.65	0.61
5:F:291:CYS:O	5:F:295:CYS:HB2	2.01	0.61
5:F:595:LEU:HD23	5:F:595:LEU:H	1.65	0.61
1:G:124:VAL:HG11	1:G:210:THR:HG22	1.82	0.61
1:G:201:LEU:HD12	1:G:202:VAL:N	2.15	0.61
1:H:65:LEU:O	1:H:66:HIS:ND1	2.34	0.61
2:I:29:SER:HB2	2:I:30:ILE:HD12	1.82	0.61
2:I:50:GLU:OE1	2:I:54:ARG:NE	2.34	0.61
2:I:363:LEU:O	2:I:381:ALA:HB1	2.01	0.61
2:I:483:ASP:CB	2:I:486:THR:HG21	2.31	0.61
2:I:551:HIS:CG	2:I:552:PRO:HD2	2.35	0.61
2:I:1018:TYR:OH	2:I:1022:LYS:NZ	2.25	0.61
3:J:134:ASP:O	3:J:138:VAL:N	2.28	0.61
3:J:194:LEU:O	3:J:197:GLU:N	2.33	0.61
3:J:499:ILE:HG23	3:J:500:ILE:CD1	2.31	0.61
3:J:507:VAL:HG11	3:J:598:LYS:HG3	1.83	0.61
1:B:153:VAL:HB	1:B:175:ALA:HB3	1.82	0.61
1:B:159:ILE:HG23	1:B:160:HIS:N	2.13	0.61
2:C:16:GLY:O	2:C:1156:ARG:HG2	2.00	0.61
2:C:97:ARG:NH2	5:F:475:GLY:HA3	2.15	0.61
2:C:339:ASN:HB3	2:C:343:HIS:O	2.01	0.61
2:C:969:ALA:O	2:C:973:SER:N	2.27	0.61
3:D:44:ILE:HB	3:D:50:LYS:O	2.00	0.61
3:D:197:GLU:O	3:D:201:LEU:N	2.28	0.61
3:D:491:LEU:HB2	3:D:904:ALA:HA	1.82	0.61
2:I:46:GLN:HG3	2:I:47:TYR:O	2.01	0.61
2:I:1024:GLU:HA	2:I:1027:LYS:CG	2.31	0.61
2:I:1080:ASN:HB2	2:I:1085:MET:CE	2.31	0.61
3:J:71:LEU:O	3:J:71:LEU:HD22	2.01	0.61
3:J:549:LYS:O	3:J:550:VAL:HG13	2.01	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:591:ILE:HG23	3:J:592:VAL:HG12	1.82	0.61
3:J:723:TYR:O	3:J:726:ALA:N	2.32	0.61
5:L:343:LYS:HA	5:L:346:GLN:HB3	1.81	0.61
5:L:427:PHE:CZ	5:L:431:ALA:HB2	2.36	0.61
2:C:198:ILE:HG22	2:C:199:ASP:CG	2.22	0.61
2:C:496:LYS:HD2	2:C:497:PRO:N	2.16	0.61
2:C:548:ARG:O	3:D:780:ARG:NH1	2.34	0.61
2:C:588:GLU:HG3	2:C:605:TYR:HD1	1.65	0.61
2:C:759:SER:OG	2:C:763:THR:N	2.31	0.61
3:D:651:HIS:HA	3:D:654:ILE:HD12	1.83	0.61
3:D:1156:LEU:HD12	3:D:1208:ASP:O	2.01	0.61
3:D:1196:LEU:N	3:D:1196:LEU:HD22	2.16	0.61
4:E:26:ARG:NH2	4:E:38:LEU:HD13	2.16	0.61
4:E:30:MET:HE1	4:E:49:ILE:HG22	1.82	0.61
5:F:231:THR:HG23	5:F:249:ILE:CG1	2.30	0.61
2:I:184:LEU:HD12	2:I:185:ASP:H	1.66	0.61
2:I:207:THR:O	2:I:210:LEU:N	2.30	0.61
2:I:564:PRO:HG2	2:I:568:ASN:O	2.01	0.61
2:I:1051:LYS:HB3	2:I:1053:TYR:HE1	1.65	0.61
2:I:1160:ASP:HB2	2:I:1161:LEU:CA	2.31	0.61
2:I:1198:LEU:O	2:I:1198:LEU:HD13	1.99	0.61
3:J:152:THR:HG21	3:J:176:PHE:HB2	1.81	0.61
3:J:267:ASP:HA	3:J:270:ARG:NH2	2.16	0.61
3:J:606:ASN:OD1	3:J:610:ARG:NE	2.34	0.61
3:J:709:ARG:HD2	3:J:710:ASP:N	2.15	0.61
3:J:859:PRO:HG2	3:J:862:THR:CG2	2.30	0.61
1:A:18:GLN:HA	1:A:24:ALA:HB2	1.83	0.60
1:A:39:LEU:O	1:A:43:LEU:HB2	2.01	0.60
1:A:45:ARG:NH2	2:C:1216:ARG:HA	2.16	0.60
1:B:190:ALA:N	1:B:198:LEU:O	2.32	0.60
2:C:91:THR:OG1	2:C:138:ILE:HD12	2.00	0.60
2:C:560:PRO:HD3	2:C:660:VAL:O	2.01	0.60
2:C:1156:ARG:HB3	2:C:1156:ARG:HH11	1.65	0.60
3:D:358:GLY:O	3:D:361:LEU:HD12	2.01	0.60
3:D:795:TYR:O	3:D:799:ARG:HG3	2.01	0.60
3:D:1194:ARG:N	3:D:1194:ARG:HD2	2.15	0.60
1:G:224:LEU:HD22	1:H:228:LEU:HD11	1.81	0.60
2:I:1164:PHE:C	2:I:1166:ASP:H	2.04	0.60
2:I:1214:ASP:HB2	2:I:1221:PHE:CZ	2.36	0.60
2:I:1302:THR:HG22	5:L:531:PRO:HB3	1.83	0.60
3:J:45:ASN:HA	3:J:52:GLU:OE1	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:111:THR:HG21	3:J:303:VAL:HG21	1.83	0.60
3:J:844:THR:OG1	3:J:860:ARG:O	2.14	0.60
3:J:848:VAL:HB	3:J:857:LEU:CD1	2.31	0.60
3:J:1193:TRP:HB2	3:J:1194:ARG:NH1	2.16	0.60
3:J:1257:VAL:O	3:J:1261:LEU:HD12	2.01	0.60
3:J:1262:ARG:HG3	3:J:1281:GLU:CD	2.21	0.60
3:J:1319:PHE:CD1	3:J:1320:ILE:N	2.69	0.60
5:L:346:GLN:O	5:L:350:GLU:HG3	2.01	0.60
5:L:445:ASP:OD1	5:L:445:ASP:N	2.34	0.60
2:C:242:VAL:O	2:C:245:ARG:HB2	2.00	0.60
2:C:338:THR:CG2	2:C:345:PRO:HB3	2.32	0.60
2:C:693:LEU:C	2:C:693:LEU:HD23	2.21	0.60
2:C:1078:LYS:HE2	2:C:1080:ASN:OD1	2.01	0.60
3:D:53:ARG:CZ	3:D:60:ARG:HD2	2.31	0.60
3:D:317:THR:HG21	3:D:320:ASN:HB3	1.83	0.60
3:D:355:ILE:O	3:D:355:ILE:HG13	2.01	0.60
5:F:354:THR:O	5:F:358:VAL:HG13	2.00	0.60
2:I:201:ARG:HH11	2:I:201:ARG:HG2	1.65	0.60
2:I:206:ALA:O	2:I:209:ILE:HG22	1.99	0.60
2:I:1180:MET:HG2	2:I:1181:PRO:HD2	1.81	0.60
3:J:61:ILE:O	3:J:101:ARG:HD2	2.01	0.60
3:J:557:LYS:HD3	3:J:611:ILE:HG23	1.83	0.60
3:J:1323:ALA:HB2	3:J:1331:VAL:HG11	1.83	0.60
5:L:448:ARG:HD2	5:L:452:ILE:HD12	1.83	0.60
5:L:543:ALA:O	5:L:547:VAL:HG23	2.00	0.60
1:B:85:LEU:N	1:B:85:LEU:HD23	2.17	0.60
1:B:152:TYR:HD1	1:B:176:CYS:HA	1.66	0.60
2:C:1327:LEU:H	2:C:1327:LEU:HD12	1.65	0.60
3:D:18:ASP:HB2	3:D:1373:ARG:HH21	1.66	0.60
3:D:357:VAL:HG12	3:D:358:GLY:H	1.65	0.60
3:D:1227:HIS:HB2	3:J:1293:GLU:OE1	2.01	0.60
3:D:1234:VAL:HA	3:D:1237:VAL:CG1	2.29	0.60
3:D:1234:VAL:HG23	3:D:1235:ASN:N	2.16	0.60
3:D:1274:PHE:CE2	3:D:1275:LEU:HB3	2.37	0.60
3:D:1280:VAL:HG13	3:D:1284:ARG:CD	2.30	0.60
3:D:1314:LEU:HD11	3:D:1326:GLN:CB	2.31	0.60
5:F:423:ARG:HG2	5:F:425:TYR:HE1	1.65	0.60
1:G:197:ASP:O	1:G:198:LEU:HD23	2.01	0.60
2:I:22:LEU:HD22	2:I:23:ASP:N	2.16	0.60
2:I:360:LEU:HA	2:I:363:LEU:HB2	1.83	0.60
2:I:557:ARG:HH21	2:I:608:ALA:CA	2.13	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:687:ARG:O	2:I:689:ALA:N	2.31	0.60
2:I:742:TYR:HD2	2:I:743:PRO:HD2	1.65	0.60
2:I:1301:ARG:O	2:I:1304:MET:HB3	2.01	0.60
3:J:772:TYR:O	3:J:775:SER:HB3	2.01	0.60
5:L:494:ILE:O	5:L:497:VAL:N	2.34	0.60
5:L:511:ILE:CG2	5:L:517:SER:HB2	2.31	0.60
5:L:536:THR:OG1	5:L:537:THR:N	2.34	0.60
1:A:36:GLY:HA3	1:A:187:VAL:HG11	1.84	0.60
2:C:560:PRO:HG3	3:D:773:PHE:HE2	1.65	0.60
3:D:379:PRO:O	3:D:382:TYR:N	2.33	0.60
3:D:396:ALA:O	3:D:399:LYS:N	2.34	0.60
3:D:582:ILE:HD11	3:D:623:GLN:HB3	1.84	0.60
3:D:709:ARG:HD2	3:D:710:ASP:N	2.17	0.60
3:D:1140:ARG:HA	3:D:1143:ASP:OD2	2.00	0.60
3:D:1219:ASP:O	3:D:1222:ARG:N	2.35	0.60
3:D:1323:ALA:HA	3:D:1331:VAL:HG21	1.83	0.60
5:F:491:GLU:O	5:F:494:ILE:HB	2.01	0.60
1:G:115:ILE:HG22	1:G:116:THR:N	2.16	0.60
2:I:237:LEU:CG	2:I:292:ILE:HD11	2.31	0.60
3:J:194:LEU:CD2	3:J:224:LEU:HD21	2.31	0.60
3:J:408:VAL:HA	3:J:411:ILE:HG12	1.81	0.60
3:J:450:HIS:HE1	3:J:452:LEU:HD12	1.65	0.60
4:K:42:GLU:C	4:K:44:ASP:H	2.05	0.60
5:L:240:ARG:O	5:L:242:HIS:N	2.34	0.60
5:L:483:LEU:HD23	5:L:487:MET:HG3	1.83	0.60
2:C:159:SER:O	2:C:160:ASP:HB2	2.00	0.60
2:C:592:ARG:O	2:C:652:TYR:HD2	1.85	0.60
2:C:1247:SER:HB3	3:D:375:GLU:O	2.00	0.60
3:D:212:THR:HA	3:D:215:LYS:NZ	2.16	0.60
3:D:750:PRO:HA	3:D:777:HIS:NE2	2.16	0.60
3:D:1165:PHE:CE2	3:D:1175:LEU:HD13	2.37	0.60
5:F:128:ASN:CA	5:F:131:GLN:HB2	2.30	0.60
5:F:400:GLN:O	5:F:403:ASP:HB2	2.01	0.60
5:F:574:GLU:O	5:F:577:GLY:N	2.35	0.60
1:G:12:ARG:H	1:G:30:PRO:CD	2.12	0.60
1:G:90:VAL:N	1:G:210:THR:HG21	2.16	0.60
2:I:101:ARG:HG3	2:I:118:LYS:HG3	1.83	0.60
2:I:1275:VAL:O	2:I:1278:LEU:HB2	2.01	0.60
3:J:225:GLU:HA	3:J:228:VAL:HG23	1.82	0.60
3:J:577:ALA:HA	3:J:589:TYR:OH	2.01	0.60
3:J:661:VAL:HG12	3:J:685:ILE:HD11	1.84	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:706:VAL:HA	3:J:715:LYS:HA	1.84	0.60
3:J:848:VAL:CG1	3:J:857:LEU:HD11	2.32	0.60
5:L:213:ASP:O	5:L:216:LEU:HB3	2.00	0.60
1:B:9:LEU:HB2	1:B:32:GLU:CG	2.31	0.60
1:B:67:GLU:OE2	1:B:172:LEU:HD13	2.01	0.60
1:B:76:GLU:HB3	1:B:80:GLU:HG2	1.84	0.60
2:C:90:VAL:HG12	2:C:91:THR:N	2.14	0.60
2:C:1276:TRP:HA	2:C:1279:GLU:OE1	2.01	0.60
3:D:237:MET:O	3:D:238:ILE:HD13	2.01	0.60
3:D:694:SER:HB2	3:D:738:ARG:CD	2.26	0.60
3:D:848:VAL:HG13	3:D:857:LEU:HB2	1.82	0.60
3:D:1163:VAL:HG22	3:D:1164:SER:H	1.66	0.60
4:E:27:ALA:O	4:E:30:MET:N	2.30	0.60
1:G:188:GLU:O	1:G:200:LYS:N	2.30	0.60
2:I:395:TYR:HE2	2:I:397:LEU:HD11	1.64	0.60
3:J:263:SER:HB2	5:L:507:MET:CE	2.32	0.60
3:J:289:ASP:HA	3:J:292:VAL:CG2	2.31	0.60
3:J:627:THR:HG23	3:J:628:GLY:H	1.66	0.60
3:J:708:ASN:N	3:J:708:ASN:OD1	2.35	0.60
3:J:1167:LYS:HB3	3:J:1174:ARG:HD3	1.83	0.60
4:K:14:GLY:C	4:K:16:ARG:H	2.05	0.60
1:A:39:LEU:HD23	1:A:39:LEU:N	2.17	0.60
1:A:182:ARG:O	1:A:183:ILE:HD12	2.02	0.60
1:B:61:ILE:CG2	1:B:63:GLY:H	2.15	0.60
1:B:149:GLY:HA3	1:B:177:TYR:CZ	2.36	0.60
2:C:39:ILE:O	2:C:40:GLU:HB2	2.01	0.60
2:C:1129:ASN:OD1	2:C:1177:ARG:NH2	2.25	0.60
3:D:227:PHE:O	3:D:230:SER:HB3	2.00	0.60
3:D:290:ILE:H	3:D:290:ILE:CD1	2.15	0.60
3:D:352:ARG:CB	3:D:467:ALA:HA	2.32	0.60
3:D:749:LYS:HB2	3:D:750:PRO:CD	2.32	0.60
3:D:1371:ARG:HD2	3:J:856:ILE:CG1	2.29	0.60
3:J:495:ASN:ND2	3:J:497:GLU:HB2	2.17	0.60
5:L:137:TYR:CE2	5:L:139:GLU:HB2	2.36	0.60
2:C:557:ARG:NH1	2:C:611:GLU:OE1	2.34	0.60
2:C:805:MET:HE1	2:C:1221:PHE:CE1	2.37	0.60
2:C:1043:ALA:HB1	2:C:1044:PRO:CD	2.32	0.60
3:D:609:TYR:HA	3:D:617:THR:OG1	2.02	0.60
3:D:707:ILE:HD12	3:D:707:ILE:H	1.67	0.60
3:D:824:PRO:CB	3:D:835:LEU:HB2	2.32	0.60
5:F:500:ILE:O	5:F:500:ILE:HG22	2.02	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:155:ALA:HA	1:G:158:ARG:HG3	1.84	0.60
2:I:145:ILE:CG2	2:I:456:VAL:HG22	2.31	0.60
2:I:289:VAL:HG13	2:I:319:LEU:CD1	2.30	0.60
2:I:411:ARG:HG3	2:I:411:ARG:HH11	1.65	0.60
3:J:245:LEU:HG	3:J:246:PRO:HD2	1.84	0.60
3:J:368:LEU:O	3:J:442:ILE:HB	2.00	0.60
3:J:488:ASN:ND2	4:K:6:VAL:HG11	2.13	0.60
3:J:704:GLU:O	3:J:706:VAL:N	2.34	0.60
3:J:818:GLU:CG	3:J:887:SER:HB2	2.31	0.60
5:L:246:GLN:O	5:L:249:ILE:HB	2.02	0.60
1:B:45:ARG:NH1	1:B:45:ARG:HB3	2.17	0.60
1:B:47:LEU:HB3	1:B:180:VAL:HG11	1.83	0.60
2:C:15:PHE:HE1	2:C:1194:GLU:HB3	1.67	0.60
2:C:27:LEU:HD12	2:C:711:ASP:HB2	1.83	0.60
2:C:178:PRO:HB3	2:C:395:TYR:CE2	2.37	0.60
2:C:468:LEU:O	2:C:471:VAL:HG12	2.01	0.60
2:C:703:GLY:N	2:C:705:GLU:OE2	2.33	0.60
2:C:1281:TYR:CE2	3:D:431:ARG:HB2	2.36	0.60
2:C:1315:MET:HE2	2:C:1317:PRO:HD3	1.84	0.60
3:D:509:GLY:O	3:D:512:TYR:HB3	2.02	0.60
2:I:557:ARG:O	2:I:576:SER:HB2	2.02	0.60
3:J:287:ALA:HB3	3:J:292:VAL:HG12	1.82	0.60
3:J:848:VAL:HG12	3:J:857:LEU:HD11	1.84	0.60
1:B:112:ALA:HB3	1:B:126:PRO:CA	2.13	0.60
2:C:208:ILE:CG2	2:C:362:ALA:HB1	2.32	0.60
2:C:395:TYR:CE2	2:C:420:LEU:HD21	2.36	0.60
2:C:556:GLY:O	2:C:589:THR:HB	2.01	0.60
2:C:1018:TYR:O	2:C:1021:LEU:N	2.35	0.60
2:C:1104:PRO:HG2	3:D:725:MET:SD	2.42	0.60
2:C:1315:MET:CE	2:C:1317:PRO:HD3	2.31	0.60
3:D:230:SER:OG	3:D:231:GLY:N	2.32	0.60
3:D:654:ILE:O	3:D:658:GLU:HB2	2.01	0.60
3:D:755:ILE:HD12	3:D:774:ILE:HG21	1.83	0.60
3:D:825:VAL:HG22	3:D:833:GLU:H	1.66	0.60
3:D:884:SER:O	3:D:887:SER:OG	2.17	0.60
3:D:899:TYR:CE1	3:D:915:ILE:HG21	2.37	0.60
3:D:1149:ARG:HG2	3:D:1150:PRO:O	2.02	0.60
3:D:1229:VAL:HG13	3:D:1230:THR:N	2.17	0.60
3:D:1319:PHE:CD1	3:D:1319:PHE:C	2.75	0.60
4:E:25:ARG:HD3	4:E:64:LEU:HD13	1.83	0.60
4:E:48:VAL:O	4:E:51:LEU:N	2.34	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:320:ILE:HG12	5:F:330:LEU:HB2	1.82	0.60
1:G:134:THR:HG23	2:I:726:TYR:HE1	1.64	0.60
1:H:67:GLU:C	1:H:78:ILE:HD13	2.22	0.60
1:H:101:THR:H	1:H:116:THR:HG21	1.67	0.60
2:I:13:LYS:O	2:I:1183:ALA:N	2.35	0.60
2:I:1160:ASP:CB	2:I:1161:LEU:CA	2.79	0.60
2:I:1176:LEU:N	2:I:1176:LEU:HD23	2.15	0.60
2:I:1259:LEU:HD12	3:J:346:ARG:HH12	1.65	0.60
2:I:1291:LEU:HD11	3:J:1351:VAL:HG13	1.83	0.60
1:A:57:THR:HG23	1:A:158:ARG:NH2	2.17	0.59
1:B:100:LEU:HD23	1:B:115:ILE:HG22	1.82	0.59
2:C:57:PHE:HD1	2:C:70:TYR:CB	2.14	0.59
2:C:237:LEU:O	2:C:238:GLN:HG3	2.01	0.59
2:C:1182:ILE:HG22	2:C:1183:ALA:N	2.17	0.59
2:C:1286:THR:O	2:C:1290:MET:HB2	2.02	0.59
2:C:1325:VAL:HG12	2:C:1326:LEU:N	2.17	0.59
3:D:537:TYR:O	3:D:540:GLY:N	2.30	0.59
2:I:541:GLU:OE1	2:I:541:GLU:N	2.35	0.59
2:I:756:TYR:N	2:I:756:TYR:CD1	2.69	0.59
2:I:1285:TYR:HB2	3:J:479:GLU:CD	2.22	0.59
3:J:115:TRP:CE2	3:J:1329:THR:HG23	2.37	0.59
3:J:294:ASN:HB2	5:L:101:TYR:CD1	2.37	0.59
3:J:320:ASN:ND2	3:J:322:ARG:HB3	2.17	0.59
3:J:358:GLY:N	3:J:359:PRO:HD3	2.14	0.59
3:J:522:GLY:O	3:J:525:MET:HG2	2.02	0.59
3:J:1167:LYS:CE	3:J:1170:LYS:HB2	2.32	0.59
4:K:13:ILE:HD12	4:K:19:LEU:HA	1.83	0.59
1:B:136:GLU:CD	1:B:137:ASN:H	2.06	0.59
1:B:228:LEU:N	1:B:228:LEU:HD23	2.17	0.59
2:C:5:TYR:C	2:C:7:GLU:N	2.54	0.59
2:C:745:GLU:N	2:C:1017:GLN:HG3	2.17	0.59
2:C:1164:PHE:N	2:C:1168:GLU:OE1	2.24	0.59
2:C:1191:LYS:HE2	2:C:1192:GLU:HB2	1.82	0.59
2:C:1271:GLY:HA2	3:D:344:GLY:HA3	1.84	0.59
3:D:108:ALA:HB1	3:D:279:LEU:CD2	2.31	0.59
3:D:113:HIS:HE1	3:D:115:TRP:HB2	1.60	0.59
3:D:317:THR:CG2	3:D:320:ASN:HB3	2.32	0.59
3:D:342:LEU:O	3:D:343:LEU:C	2.41	0.59
3:D:1135:THR:HG23	3:D:1140:ARG:HD3	1.84	0.59
5:F:137:TYR:HB3	5:F:140:ALA:HB2	1.82	0.59
5:F:380:VAL:HG13	5:F:381:GLU:N	2.17	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:104:LYS:HG3	1:H:105:SER:N	2.16	0.59
3:J:357:VAL:HA	3:J:461:PHE:CE1	2.37	0.59
3:J:734:ALA:HA	3:J:737:ILE:CG1	2.33	0.59
3:J:920:ALA:O	3:J:923:ILE:HB	2.02	0.59
5:L:505:ILE:HD12	5:L:506:SER:H	1.67	0.59
1:B:154:PRO:O	1:B:174:ASP:HA	2.01	0.59
2:C:685:MET:HE2	2:C:1071:GLY:HA2	1.84	0.59
2:C:724:VAL:CG1	2:C:727:VAL:CG2	2.79	0.59
2:C:741:MET:SD	2:C:974:ARG:NH2	2.75	0.59
2:C:1076:ILE:C	2:C:1076:ILE:HD12	2.23	0.59
2:C:1158:LYS:O	2:C:1159:VAL:HG13	2.02	0.59
2:C:1191:LYS:NZ	2:C:1193:ALA:HB2	2.17	0.59
3:D:317:THR:N	3:D:322:ARG:O	2.35	0.59
3:D:506:VAL:O	3:D:509:GLY:N	2.35	0.59
3:D:922:SER:O	3:D:1248:ILE:HD11	2.03	0.59
3:D:1155:ILE:CD1	3:D:1211:SER:HB3	2.33	0.59
5:F:333:VAL:CG2	5:F:336:GLU:HB2	2.31	0.59
1:H:112:ALA:HA	1:H:130:ILE:CD1	2.32	0.59
2:I:17:LYS:N	2:I:1188:ASP:OD2	2.36	0.59
3:J:905:ARG:HH11	4:K:16:ARG:HB2	1.67	0.59
5:L:227:GLN:HG2	5:L:255:VAL:HG21	1.84	0.59
5:L:292:VAL:HG11	5:L:299:LYS:CE	2.32	0.59
1:B:182:ARG:HG2	1:B:183:ILE:H	1.65	0.59
2:C:36:GLN:HG3	2:C:40:GLU:OE2	2.02	0.59
2:C:45:GLY:O	2:C:51:ALA:HB2	2.02	0.59
2:C:94:ALA:N	2:C:129:LEU:HD11	2.18	0.59
2:C:202:ARG:HH11	2:C:369:MET:CG	2.15	0.59
2:C:367:TYR:O	2:C:371:ARG:N	2.34	0.59
2:C:1272:GLU:CB	3:D:342:LEU:HD12	2.21	0.59
2:C:1293:VAL:CG1	2:C:1301:ARG:HA	2.29	0.59
3:D:174:ASP:O	3:D:175:GLU:HG2	2.03	0.59
3:D:215:LYS:CE	3:D:216:LYS:HG3	2.32	0.59
3:D:1219:ASP:OD1	3:D:1222:ARG:NH2	2.34	0.59
5:F:122:ARG:NH2	5:F:378:GLU:OE1	2.35	0.59
1:G:191:ARG:HH12	1:G:197:ASP:CA	2.15	0.59
1:H:18:GLN:HB3	1:H:24:ALA:CB	2.32	0.59
2:I:10:ARG:NH1	2:I:697:LYS:HD3	2.18	0.59
2:I:62:TYR:C	2:I:64:GLY:H	2.04	0.59
2:I:273:HIS:HA	2:I:276:GLN:OE1	2.02	0.59
2:I:368:ARG:O	2:I:372:PRO:HB3	2.02	0.59
2:I:1256:GLN:O	2:I:1301:ARG:NH2	2.35	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:290:ILE:H	3:J:290:ILE:HD12	1.67	0.59
3:J:536:LEU:HD12	3:J:542:ALA:N	2.17	0.59
3:J:1154:ALA:HB1	3:J:1211:SER:O	2.03	0.59
5:L:401:PHE:O	5:L:403:ASP:N	2.35	0.59
5:L:498:LEU:HD22	5:L:498:LEU:N	2.16	0.59
1:A:22:THR:O	1:A:207:THR:N	2.31	0.59
1:B:89:ALA:HB1	1:B:124:VAL:H	1.66	0.59
2:C:242:VAL:HB	2:C:245:ARG:HD2	1.85	0.59
2:C:303:ASP:O	2:C:307:GLY:N	2.36	0.59
2:C:689:ALA:CB	2:C:1233:LEU:HD23	2.33	0.59
2:C:817:LEU:HD22	2:C:818:VAL:N	2.17	0.59
3:D:1156:LEU:CA	3:D:1210:ILE:HG12	2.32	0.59
3:D:1252:HIS:C	3:D:1255:VAL:HG13	2.23	0.59
2:I:4:SER:HB3	2:I:7:GLU:HG3	1.83	0.59
2:I:22:LEU:HD22	2:I:23:ASP:H	1.66	0.59
2:I:484:LEU:O	2:I:486:THR:HG22	2.03	0.59
2:I:701:GLY:O	2:I:1184:THR:N	2.34	0.59
2:I:896:THR:HB	2:I:897:PRO:HD2	1.82	0.59
2:I:1281:TYR:CE1	3:J:484:MET:HE2	2.37	0.59
3:J:1252:HIS:O	3:J:1255:VAL:HG13	2.03	0.59
1:A:45:ARG:NH2	2:C:1215:GLY:O	2.35	0.59
1:A:80:GLU:O	1:A:84:ASN:ND2	2.35	0.59
1:A:100:LEU:CD2	1:A:115:ILE:HG21	2.29	0.59
1:B:182:ARG:NH1	3:D:534:GLU:OE1	2.36	0.59
1:B:278:ILE:O	1:B:281:LEU:N	2.35	0.59
2:C:164:THR:HG21	2:C:171:LEU:HD12	1.84	0.59
2:C:338:THR:HB	2:C:345:PRO:HB3	1.84	0.59
5:F:490:PRO:HG2	5:F:493:LYS:CB	2.33	0.59
1:G:191:ARG:HH12	1:G:198:LEU:N	1.99	0.59
1:G:195:ARG:HG2	1:G:198:LEU:CG	2.33	0.59
2:I:82:VAL:HA	2:I:92:TYR:HD1	1.68	0.59
2:I:810:TYR:CD1	2:I:1078:LYS:HD2	2.36	0.59
2:I:815:SER:CB	3:J:461:PHE:HD1	2.14	0.59
3:J:288:PRO:HG2	3:J:291:ILE:HD12	1.84	0.59
3:J:399:LYS:NZ	5:L:609:SER:OG	2.34	0.59
5:L:412:LEU:HB2	5:L:435:ILE:CD1	2.24	0.59
1:A:102:LEU:HB3	1:A:142:MET:HG2	1.83	0.59
2:C:65:ASN:O	2:C:105:TYR:HD2	1.85	0.59
2:C:743:PRO:O	2:C:974:ARG:NH1	2.36	0.59
3:D:342:LEU:O	3:D:344:GLY:N	2.35	0.59
3:D:511:TYR:C	3:D:511:TYR:CD1	2.76	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:572:THR:HG23	3:D:573:THR:O	2.03	0.59
3:D:683:ILE:O	3:D:683:ILE:HG12	2.02	0.59
3:D:1368:ASP:HA	3:D:1371:ARG:HH22	1.67	0.59
5:F:242:HIS:C	5:F:246:GLN:HB2	2.22	0.59
1:G:60:GLU:HG2	1:G:143:ARG:HH21	1.67	0.59
1:G:130:ILE:HD12	1:G:130:ILE:N	2.18	0.59
1:H:206:GLU:OE1	3:J:531:LYS:NZ	2.26	0.59
2:I:559:CYS:HG	2:I:662:SER:CB	2.15	0.59
3:J:275:ARG:HH21	5:L:400:GLN:HE21	1.49	0.59
1:A:152:TYR:HD2	1:A:154:PRO:HD3	1.68	0.59
1:B:197:ASP:C	1:B:198:LEU:HD22	2.21	0.59
2:C:216:THR:O	2:C:220:ILE:HG13	2.03	0.59
2:C:1115:THR:CG2	2:C:1228:GLY:HA3	2.32	0.59
3:D:47:ARG:NH1	5:F:496:LYS:HE2	2.18	0.59
3:D:53:ARG:NH1	3:D:60:ARG:HD2	2.18	0.59
3:D:120:LEU:HD13	3:D:121:PRO:N	2.18	0.59
3:D:218:THR:HG21	3:D:1275:LEU:HD21	1.85	0.59
3:D:259:ARG:CZ	5:F:502:LYS:HD3	2.32	0.59
5:F:120:ALA:HA	5:F:123:ILE:HD12	1.85	0.59
5:F:512:GLY:O	5:F:513:ASP:HB3	2.03	0.59
2:I:122:VAL:HG23	5:L:472:GLN:HG2	1.85	0.59
2:I:742:TYR:O	2:I:974:ARG:NH2	2.35	0.59
2:I:1042:LEU:CB	2:I:1046:VAL:HG21	2.32	0.59
2:I:1237:HIS:HB3	2:I:1242:LYS:HE3	1.84	0.59
3:J:504:GLN:OE1	3:J:731:ARG:NH1	2.35	0.59
3:J:684:ASP:O	3:J:687:ALA:N	2.35	0.59
4:K:6:VAL:HG23	4:K:10:VAL:HG23	1.84	0.59
5:L:138:PRO:CD	5:L:353:LEU:HD11	2.33	0.59
1:B:154:PRO:C	1:B:174:ASP:HA	2.24	0.59
1:B:255:ARG:O	1:B:277:TYR:HB3	2.02	0.59
1:B:301:THR:HA	1:B:304:LYS:HE2	1.84	0.59
2:C:91:THR:HG21	2:C:503:LYS:CE	2.32	0.59
2:C:517:GLN:HE21	2:C:759:SER:CA	2.13	0.59
2:C:1113:LEU:HD11	3:D:641:ILE:HG12	1.83	0.59
3:D:30:ILE:HG12	3:D:33:TRP:CZ3	2.37	0.59
3:D:37:GLU:HG3	3:D:105:ILE:HA	1.85	0.59
3:D:471:PRO:HB3	3:D:476:ALA:HB1	1.85	0.59
3:D:658:GLU:O	3:D:661:VAL:HG22	2.03	0.59
3:D:1314:LEU:CD1	3:D:1326:GLN:CB	2.80	0.59
5:F:279:ARG:HH22	5:F:350:GLU:CD	2.05	0.59
5:F:347:ILE:HG22	5:F:351:THR:CG2	2.33	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:39:ILE:HD12	2:I:75:LEU:HG	1.85	0.59
2:I:200:ARG:HH11	2:I:200:ARG:HG2	1.67	0.59
2:I:882:ILE:HD11	2:I:919:ARG:HH12	1.67	0.59
3:J:1140:ARG:O	3:J:1140:ARG:HD2	2.02	0.59
5:L:381:GLU:O	5:L:384:LEU:HG	2.02	0.59
1:B:63:GLY:HA3	1:B:71:LYS:CE	2.31	0.59
2:C:15:PHE:CE1	2:C:1194:GLU:HB3	2.38	0.59
2:C:119:GLU:HG3	2:C:488:MET:CB	2.28	0.59
2:C:524:ILE:CD1	2:C:712:SER:HB2	2.32	0.59
2:C:551:HIS:H	2:C:554:HIS:HD2	1.49	0.59
2:C:1018:TYR:CE2	2:C:1022:LYS:HD3	2.38	0.59
2:C:1082:ILE:CD1	2:C:1082:ILE:H	2.08	0.59
2:C:1333:LEU:CD2	3:D:307:LEU:HD22	2.33	0.59
3:D:892:PHE:HZ	3:D:1282:TYR:CE1	2.19	0.59
3:D:1169:THR:O	3:D:1169:THR:HG22	2.02	0.59
5:F:444:ALA:HB1	5:F:457:ILE:HG13	1.85	0.59
5:F:552:THR:OG1	5:F:555:GLU:HG3	2.01	0.59
1:G:152:TYR:HB2	2:I:824:GLN:NE2	2.18	0.59
1:H:57:THR:HG21	1:H:158:ARG:HH21	1.68	0.59
2:I:287:VAL:HG23	2:I:288:PRO:O	2.03	0.59
3:J:117:LEU:C	3:J:118:LYS:HG2	2.22	0.59
3:J:1159:ILE:HG22	3:J:1177:ILE:HD13	1.85	0.59
5:L:137:TYR:HD1	5:L:138:PRO:HD2	1.67	0.59
5:L:228:TYR:O	5:L:231:THR:N	2.36	0.59
1:A:172:LEU:HD12	1:A:172:LEU:N	2.18	0.58
1:B:100:LEU:HG	1:B:116:THR:CG2	2.33	0.58
1:B:289:LEU:O	1:B:295:LEU:HD22	2.02	0.58
2:C:1272:GLU:OE2	3:D:341:ASN:HA	2.02	0.58
3:D:130:MET:HE2	3:D:135:ILE:HG12	1.85	0.58
3:D:146:VAL:HG23	3:D:158:GLN:O	2.03	0.58
3:D:215:LYS:O	3:D:219:LYS:HE3	2.03	0.58
3:D:227:PHE:CZ	3:D:234:PRO:HG3	2.37	0.58
3:D:744:ARG:HG3	3:D:744:ARG:O	2.03	0.58
5:F:292:VAL:HG11	5:F:299:LYS:CG	2.33	0.58
5:F:494:ILE:O	5:F:497:VAL:HB	2.03	0.58
1:H:101:THR:CG2	1:H:116:THR:HG21	2.32	0.58
2:I:13:LYS:HD2	2:I:14:ASP:N	2.18	0.58
2:I:519:ASN:HD21	2:I:796:LEU:CD2	2.11	0.58
2:I:688:GLN:CB	2:I:1235:LEU:HD22	2.33	0.58
2:I:895:LEU:HD13	2:I:900:LYS:N	2.18	0.58
2:I:1088:ASP:OD2	2:I:1092:THR:OG1	2.21	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:1105:SER:HA	3:J:736:GLN:NE2	2.18	0.58
2:I:1124:ILE:O	2:I:1127:LYS:HB2	2.03	0.58
3:J:22:ILE:CD1	3:J:1336:ALA:HB2	2.33	0.58
3:J:279:LEU:HD12	3:J:295:GLU:CG	2.32	0.58
3:J:580:TRP:HH2	3:J:587:LEU:O	1.86	0.58
3:J:616:PRO:O	3:J:620:PHE:HB2	2.03	0.58
3:J:668:PHE:HA	3:J:673:VAL:HG23	1.84	0.58
3:J:746:LEU:HD23	3:J:758:PRO:HG3	1.85	0.58
3:J:1241:TYR:HD2	3:J:1246:VAL:HG12	1.68	0.58
5:L:287:ILE:CG2	5:L:315:TRP:HH2	2.16	0.58
1:A:100:LEU:HB3	1:A:115:ILE:HG21	1.85	0.58
1:B:79:LEU:O	1:B:82:LEU:HB2	2.03	0.58
2:C:104:ILE:O	2:C:114:VAL:N	2.35	0.58
2:C:460:ALA:O	2:C:463:GLN:N	2.36	0.58
2:C:1322:SER:OG	2:C:1323:PHE:N	2.36	0.58
3:D:24:LEU:HB2	3:D:232:ASN:OD1	2.04	0.58
3:D:117:LEU:CA	3:D:124:ILE:HD12	2.32	0.58
3:D:123:ARG:HH12	3:D:1334:GLU:HG3	1.67	0.58
3:D:872:LEU:HB3	3:D:877:VAL:HG11	1.84	0.58
5:F:563:PHE:O	5:F:565:ILE:N	2.36	0.58
5:F:572:THR:O	5:F:576:VAL:HG23	2.04	0.58
1:G:49:SER:OG	1:G:50:SER:N	2.37	0.58
1:G:80:GLU:O	1:G:84:ASN:ND2	2.36	0.58
2:I:156:PHE:CE2	2:I:158:ASP:HB2	2.38	0.58
2:I:677:ASN:O	2:I:681:MET:HG3	2.03	0.58
2:I:688:GLN:HB2	2:I:1235:LEU:CD2	2.34	0.58
2:I:974:ARG:HB3	2:I:1014:LEU:HD21	1.85	0.58
2:I:1012:GLU:O	2:I:1016:GLU:HG3	2.02	0.58
3:J:502:PRO:HB3	3:J:506:VAL:CG2	2.33	0.58
3:J:545:HIS:CD2	3:J:719:PHE:HZ	2.21	0.58
5:L:108:VAL:HG22	5:L:385:ARG:NH2	2.18	0.58
5:L:292:VAL:HG11	5:L:299:LYS:HE2	1.84	0.58
1:A:43:LEU:CD1	1:A:203:ILE:HD11	2.33	0.58
1:B:124:VAL:CG1	1:B:125:LYS:HG3	2.33	0.58
1:B:156:SER:N	1:B:157:THR:OG1	2.36	0.58
2:C:202:ARG:HH22	2:C:368:ARG:HH22	1.49	0.58
2:C:245:ARG:NH2	2:C:337:PHE:HD2	2.01	0.58
2:C:850:ILE:HG22	2:C:850:ILE:O	2.03	0.58
3:D:126:LEU:HD12	3:D:127:LEU:N	2.18	0.58
3:D:140:TYR:HD2	5:F:100:MET:HE1	1.69	0.58
3:D:418:GLU:OE2	4:E:44:ASP:HA	2.02	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:436:ALA:HB3	3:D:485:MET:HA	1.85	0.58
3:D:648:GLU:OE2	3:D:649:LYS:HE2	2.03	0.58
3:D:748:ALA:CB	3:D:754:ILE:HA	2.33	0.58
3:D:925:GLU:HB3	3:D:926:PRO:HD3	1.85	0.58
3:D:1154:ALA:N	3:D:1214:PRO:O	2.30	0.58
5:F:113:ARG:HA	5:F:116:GLU:OE1	2.03	0.58
5:F:231:THR:O	5:F:235:ILE:HG13	2.04	0.58
5:F:238:LYS:HE2	5:F:242:HIS:CE1	2.37	0.58
5:F:537:THR:O	5:F:540:LEU:N	2.33	0.58
1:H:61:ILE:HG23	1:H:142:MET:CE	2.32	0.58
2:I:531:SER:OG	2:I:533:LEU:HB2	2.03	0.58
2:I:563:THR:HG23	2:I:564:PRO:N	2.17	0.58
2:I:665:ALA:O	2:I:667:LEU:N	2.36	0.58
2:I:1144:PHE:HA	2:I:1147:ARG:HG3	1.85	0.58
3:J:31:ARG:NH2	3:J:106:GLU:OE2	2.28	0.58
3:J:62:PHE:O	3:J:101:ARG:HG3	2.03	0.58
3:J:261:ALA:HA	5:L:505:ILE:O	2.03	0.58
3:J:378:LYS:HB3	3:J:379:PRO:HD3	1.85	0.58
3:J:511:TYR:CD1	3:J:511:TYR:C	2.76	0.58
3:J:1162:ILE:HG23	3:J:1178:THR:HB	1.85	0.58
4:K:32:VAL:O	4:K:32:VAL:HG12	2.03	0.58
5:L:491:GLU:O	5:L:494:ILE:HB	2.03	0.58
5:L:584:ARG:O	5:L:587:ILE:HG22	2.03	0.58
1:A:57:THR:O	1:A:173:VAL:HG22	2.03	0.58
2:C:69:GLN:NE2	2:C:101:ARG:HD2	2.16	0.58
2:C:218:GLU:HG3	2:C:299:LYS:HA	1.85	0.58
2:C:517:GLN:N	2:C:761:GLN:OE1	2.35	0.58
2:C:592:ARG:HA	2:C:603:ILE:HG22	1.83	0.58
2:C:737:ASN:O	2:C:740:GLU:N	2.30	0.58
2:C:1308:ILE:HG23	3:D:380:PHE:CD2	2.39	0.58
3:D:90:VAL:HG12	3:D:91:GLU:O	2.03	0.58
3:D:215:LYS:HE2	3:D:216:LYS:HG3	1.85	0.58
3:D:339:ARG:CB	3:D:340:GLN:CA	2.80	0.58
3:D:343:LEU:HD13	5:F:515:GLU:OE1	2.03	0.58
4:E:82:ALA:O	4:E:85:ALA:HB3	2.04	0.58
5:F:228:TYR:HA	5:F:252:LEU:CD2	2.32	0.58
5:F:421:TYR:O	5:F:423:ARG:N	2.32	0.58
5:F:536:THR:OG1	5:F:537:THR:N	2.34	0.58
1:G:14:VAL:HG22	1:G:15:ASP:N	2.18	0.58
1:G:35:PHE:CZ	1:H:50:SER:HB2	2.39	0.58
1:H:76:GLU:HB3	1:H:80:GLU:HB3	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:59:ILE:HG23	2:I:476:LYS:CE	2.33	0.58
2:I:148:GLN:HG2	2:I:149:LEU:N	2.17	0.58
2:I:367:TYR:HD1	2:I:384:LEU:HD22	1.68	0.58
2:I:385:PHE:CD2	2:I:390:PHE:HE2	2.21	0.58
3:J:24:LEU:HB2	3:J:232:ASN:OD1	2.03	0.58
3:J:106:GLU:CD	3:J:241:VAL:HG13	2.23	0.58
3:J:135:ILE:HG23	3:J:185:ILE:CD1	2.32	0.58
3:J:421:VAL:HG23	3:J:422:LEU:N	2.19	0.58
3:J:479:GLU:CG	4:K:20:VAL:HG11	2.31	0.58
3:J:536:LEU:CD1	3:J:541:LEU:HB2	2.30	0.58
1:B:60:GLU:C	1:B:61:ILE:HD13	2.24	0.58
2:C:38:PHE:CE1	2:C:49:LEU:HD23	2.38	0.58
2:C:80:PHE:HZ	2:C:1038:GLN:HE22	1.49	0.58
2:C:617:ALA:HA	2:C:636:CYS:SG	2.43	0.58
2:C:756:TYR:N	2:C:756:TYR:CD1	2.56	0.58
2:C:848:GLU:CD	2:C:888:THR:HG22	2.24	0.58
2:C:852:ALA:O	2:C:862:LEU:HD13	2.04	0.58
3:D:112:ALA:O	3:D:300:GLN:NE2	2.22	0.58
3:D:425:ARG:HB2	3:D:466:MET:HG2	1.86	0.58
3:D:449:LEU:HD12	3:D:450:HIS:H	1.68	0.58
3:D:537:TYR:C	3:D:539:SER:H	2.05	0.58
3:D:1179:PRO:HD2	3:D:1184:ASP:CB	2.34	0.58
5:F:377:LYS:O	5:F:381:GLU:HG3	2.04	0.58
5:F:494:ILE:HG22	5:F:498:LEU:CD2	2.34	0.58
1:G:228:LEU:CD2	1:H:224:LEU:HB3	2.33	0.58
2:I:5:TYR:HA	2:I:8:LYS:CG	2.34	0.58
2:I:170:VAL:HG21	2:I:172:TYR:CZ	2.39	0.58
2:I:225:PHE:CD2	2:I:336:LEU:HD22	2.37	0.58
2:I:462:ASN:O	2:I:466:VAL:HG23	2.03	0.58
2:I:697:LYS:HG2	2:I:698:PRO:N	2.19	0.58
2:I:857:VAL:HG21	2:I:862:LEU:CD2	2.33	0.58
2:I:871:VAL:C	2:I:944:ARG:HH12	2.06	0.58
2:I:951:MET:O	2:I:955:GLN:N	2.22	0.58
3:J:891:ASP:OD1	3:J:1284:ARG:HG2	2.03	0.58
3:J:1262:ARG:HG2	3:J:1279:GLN:OE1	2.03	0.58
5:L:242:HIS:C	5:L:246:GLN:HB2	2.24	0.58
1:A:96:ASP:HA	1:A:148:ARG:HH12	1.68	0.58
1:B:40:GLY:HA3	1:B:185:TYR:CD1	2.38	0.58
2:C:4:SER:O	2:C:8:LYS:HB3	2.03	0.58
2:C:478:ARG:C	2:C:480:SER:H	2.06	0.58
2:C:522:SER:CA	2:C:525:THR:HG22	2.32	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:772:SER:OG	2:C:775:GLU:OE1	2.19	0.58
2:C:1025:PHE:O	2:C:1028:LYS:N	2.37	0.58
2:C:1222:GLU:OE2	3:D:537:TYR:OH	2.21	0.58
3:D:44:ILE:HD13	3:D:252:LEU:HD12	1.86	0.58
5:F:598:LEU:HB2	5:F:601:PRO:HG3	1.86	0.58
1:G:207:THR:HG22	1:G:208:ASN:H	1.68	0.58
2:I:551:HIS:CE1	2:I:553:THR:HG1	2.21	0.58
2:I:817:LEU:HD21	2:I:1080:ASN:ND2	2.18	0.58
3:J:294:ASN:ND2	3:J:298:MET:SD	2.76	0.58
3:J:574:VAL:O	3:J:577:ALA:HB3	2.04	0.58
3:J:844:THR:CG2	3:J:864:LEU:HD21	2.34	0.58
3:J:903:LEU:HD23	3:J:905:ARG:CG	2.34	0.58
3:J:1167:LYS:HD3	3:J:1174:ARG:NH1	2.17	0.58
1:A:100:LEU:HB3	1:A:115:ILE:CG2	2.33	0.58
2:C:50:GLU:OE1	2:C:54:ARG:NE	2.37	0.58
2:C:269:ILE:HD12	2:C:269:ILE:N	2.18	0.58
2:C:572:ILE:O	2:C:573:ASN:HB2	2.02	0.58
2:C:672:GLU:HG3	2:C:1187:PHE:HD2	1.68	0.58
2:C:901:LEU:HA	5:F:563:PHE:CD2	2.38	0.58
3:D:537:TYR:CE2	3:D:544:LEU:CD2	2.87	0.58
3:D:625:MET:O	3:D:627:THR:N	2.37	0.58
5:F:513:ASP:HA	5:F:516:ASP:HA	1.86	0.58
1:G:107:ILE:HG13	1:G:136:GLU:HA	1.86	0.58
2:I:285:ILE:HD12	2:I:286:GLU:N	2.19	0.58
2:I:577:VAL:HG23	2:I:661:VAL:O	2.03	0.58
2:I:810:TYR:HE2	3:J:359:PRO:CD	2.07	0.58
2:I:1042:LEU:N	2:I:1042:LEU:HD23	2.19	0.58
2:I:1121:ALA:HB2	2:I:1182:ILE:HD11	1.86	0.58
2:I:1284:ALA:CB	3:J:1362:GLY:H	2.17	0.58
3:J:36:GLY:O	3:J:104:HIS:ND1	2.37	0.58
3:J:490:ILE:O	3:J:499:ILE:HG22	2.03	0.58
3:J:902:ASP:OD1	3:J:903:LEU:N	2.37	0.58
5:L:227:GLN:HG2	5:L:252:LEU:HA	1.84	0.58
5:L:234:THR:HB	5:L:245:ALA:CB	2.33	0.58
5:L:359:LYS:O	5:L:362:ASN:HB3	2.04	0.58
1:A:191:ARG:NH1	1:A:197:ASP:HA	2.19	0.58
1:B:104:LYS:HG2	1:B:110:VAL:CG2	2.33	0.58
1:B:301:THR:HA	1:B:304:LYS:NZ	2.17	0.58
2:C:5:TYR:CD1	2:C:8:LYS:HD3	2.38	0.58
2:C:432:LEU:HD12	2:C:432:LEU:O	2.04	0.58
2:C:665:ALA:C	2:C:667:LEU:H	2.06	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1068:GLY:CA	2:C:1072:ASN:HD21	2.16	0.58
3:D:70:CYS:SG	3:D:71:LEU:N	2.77	0.58
3:D:245:LEU:HG	3:D:246:PRO:CD	2.29	0.58
3:D:925:GLU:OE2	3:D:926:PRO:HG3	2.04	0.58
3:D:1156:LEU:HA	3:D:1208:ASP:O	2.04	0.58
1:G:124:VAL:CG1	1:G:210:THR:HG22	2.33	0.58
1:H:69:SER:H	1:H:78:ILE:CD1	2.16	0.58
2:I:222:ASP:HA	2:I:227:LYS:NZ	2.19	0.58
2:I:557:ARG:CZ	2:I:608:ALA:HA	2.34	0.58
2:I:601:ASP:OD1	2:I:601:ASP:N	2.36	0.58
3:J:624:ILE:C	3:J:627:THR:HG22	2.25	0.58
3:J:843:VAL:HA	3:J:862:THR:O	2.04	0.58
3:J:916:GLY:O	3:J:919:ALA:HB3	2.04	0.58
5:L:272:SER:O	5:L:275:VAL:HB	2.04	0.58
5:L:483:LEU:CD2	5:L:487:MET:HG3	2.32	0.58
1:B:59:VAL:HG12	1:B:60:GLU:O	2.03	0.58
1:B:179:PRO:HB3	1:B:208:ASN:CG	2.24	0.58
2:C:161:LYS:O	2:C:163:LYS:N	2.36	0.58
2:C:303:ASP:HB3	2:C:306:THR:HG22	1.85	0.58
2:C:490:GLN:HG3	5:F:472:GLN:CB	2.34	0.58
2:C:1024:GLU:HA	2:C:1027:LYS:CG	2.33	0.58
2:C:1111:GLN:HB2	2:C:1230:MET:CE	2.34	0.58
3:D:384:LYS:NZ	3:D:414:GLU:OE1	2.36	0.58
3:D:427:PRO:O	3:D:429:LEU:HD22	2.03	0.58
3:D:705:THR:OG1	3:D:718:SER:HA	2.03	0.58
3:D:825:VAL:HG22	3:D:833:GLU:N	2.19	0.58
3:D:867:GLN:N	3:D:867:GLN:NE2	2.47	0.58
5:F:274:ARG:HA	5:F:277:MET:HB3	1.85	0.58
1:G:57:THR:HG22	1:G:158:ARG:NH2	2.18	0.58
1:H:112:ALA:HA	1:H:130:ILE:HD12	1.86	0.58
2:I:4:SER:H	2:I:7:GLU:HB2	1.68	0.58
2:I:464:PHE:O	2:I:467:GLY:N	2.37	0.58
2:I:571:LEU:O	2:I:572:ILE:HD13	2.04	0.58
2:I:744:GLY:O	2:I:746:ALA:N	2.34	0.58
2:I:1223:ARG:HB3	2:I:1223:ARG:HH11	1.65	0.58
3:J:29:MET:O	3:J:32:SER:HB2	2.04	0.58
3:J:97:VAL:HG11	3:J:101:ARG:NH2	2.18	0.58
3:J:750:PRO:HA	3:J:777:HIS:NE2	2.19	0.58
3:J:1168:GLU:OE2	3:J:1169:THR:OG1	2.21	0.58
3:J:1371:ARG:HH22	3:J:1372:ARG:NH2	1.96	0.58
5:L:267:ASP:N	5:L:267:ASP:OD1	2.36	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:L:413:MET:O	5:L:416:VAL:HG12	2.04	0.58
1:B:178:SER:O	1:B:180:VAL:N	2.37	0.58
2:C:971:LEU:HD22	2:C:1018:TYR:CD1	2.38	0.58
2:C:1078:LYS:HG2	2:C:1079:ILE:H	1.66	0.58
5:F:487:MET:HB3	5:F:489:MET:CG	2.32	0.58
1:G:115:ILE:HG22	1:G:116:THR:H	1.69	0.58
2:I:176:ILE:O	2:I:178:PRO:HD3	2.03	0.58
2:I:517:GLN:O	2:I:517:GLN:HG2	2.04	0.58
2:I:687:ARG:C	2:I:689:ALA:H	2.06	0.58
3:J:220:ARG:O	3:J:223:LEU:HB3	2.04	0.58
3:J:339:ARG:HB3	3:J:340:GLN:HG3	1.86	0.58
5:L:113:ARG:HA	5:L:116:GLU:CD	2.24	0.58
5:L:390:ILE:HG21	5:L:436:ARG:HG3	1.86	0.58
2:C:160:ASP:O	2:C:164:THR:OG1	2.22	0.57
2:C:496:LYS:HE3	2:C:497:PRO:HD3	1.86	0.57
3:D:416:ILE:HG23	3:D:439:PRO:HG2	1.86	0.57
3:D:457:TYR:O	3:D:458:ASN:HB3	2.03	0.57
3:D:1318:SER:OG	3:D:1349:GLU:OE1	2.22	0.57
5:F:394:TYR:CD2	5:F:394:TYR:N	2.70	0.57
2:I:115:LYS:CD	2:I:116:ASP:H	2.16	0.57
2:I:168:GLY:O	2:I:170:VAL:N	2.37	0.57
2:I:216:THR:N	2:I:219:GLN:HB2	2.19	0.57
2:I:469:VAL:HG23	2:I:470:ARG:N	2.19	0.57
2:I:978:VAL:O	2:I:981:ALA:HB3	2.03	0.57
3:J:736:GLN:O	3:J:740:LEU:HD13	2.03	0.57
3:J:759:ILE:HD12	3:J:771:GLN:HB3	1.86	0.57
4:K:60:ASN:OD1	4:K:62:GLN:HB3	2.04	0.57
5:L:419:PHE:O	5:L:420:GLU:HB2	2.03	0.57
1:B:153:VAL:HG13	1:B:157:THR:CG2	2.18	0.57
1:B:307:LEU:HD23	1:B:313:SER:O	2.04	0.57
2:C:145:ILE:HG13	2:C:511:LEU:O	2.04	0.57
2:C:407:ARG:O	2:C:407:ARG:HD3	2.03	0.57
2:C:979:LEU:CD2	2:C:1000:LEU:HD12	2.34	0.57
2:C:1029:LEU:O	2:C:1031:ALA:N	2.37	0.57
2:C:1336:ASN:OD1	2:C:1337:ILE:N	2.37	0.57
3:D:81:ARG:O	3:D:83:VAL:N	2.37	0.57
3:D:513:MET:CE	3:D:579:LEU:HD22	2.34	0.57
3:D:614:LEU:O	3:D:617:THR:N	2.31	0.57
1:G:207:THR:HG22	1:G:208:ASN:OD1	2.04	0.57
1:G:228:LEU:HD11	1:H:221:ALA:CB	2.34	0.57
2:I:62:TYR:CE2	2:I:476:LYS:HB3	2.39	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:164:THR:CG2	2:I:171:LEU:HG	2.34	0.57
2:I:173:ASN:HA	2:I:186:PHE:O	2.04	0.57
2:I:538:LEU:HD23	2:I:542:ARG:HH12	1.69	0.57
2:I:593:LYS:O	2:I:600:THR:OG1	2.12	0.57
2:I:899:GLU:O	2:I:902:LEU:N	2.37	0.57
3:J:316:ILE:HB	3:J:321:LYS:O	2.04	0.57
3:J:426:ALA:CB	3:J:427:PRO:HD3	2.28	0.57
3:J:502:PRO:HB3	3:J:506:VAL:HG21	1.86	0.57
3:J:746:LEU:HG	3:J:758:PRO:HG3	1.85	0.57
3:J:850:LYS:HE2	3:J:855:ASP:CB	2.33	0.57
3:J:1319:PHE:CD1	3:J:1319:PHE:C	2.78	0.57
3:J:1327:GLU:O	3:J:1330:ARG:N	2.36	0.57
5:L:404:LEU:HD23	5:L:439:ILE:HD12	1.84	0.57
1:A:201:LEU:HD12	1:A:202:VAL:H	1.68	0.57
2:C:169:LYS:HE2	2:C:190:PRO:O	2.03	0.57
2:C:321:LEU:O	2:C:324:LYS:HB2	2.03	0.57
3:D:40:LYS:HB3	3:D:42:GLU:OE1	2.03	0.57
3:D:58:CYS:SG	3:D:60:ARG:N	2.76	0.57
3:D:79:LYS:HG3	3:D:80:HIS:N	2.19	0.57
3:D:707:ILE:N	3:D:714:GLU:O	2.32	0.57
3:D:847:ASP:CA	3:D:860:ARG:H	2.17	0.57
3:D:1159:ILE:CG2	3:D:1177:ILE:HD12	2.26	0.57
4:E:67:ARG:O	4:E:70:GLN:HB3	2.05	0.57
5:F:246:GLN:O	5:F:249:ILE:HB	2.04	0.57
1:G:12:ARG:N	1:G:30:PRO:HD2	2.13	0.57
1:H:37:HIS:NE2	2:I:1216:ARG:HD2	2.18	0.57
1:H:48:LEU:HD11	3:J:538:ARG:HB2	1.86	0.57
2:I:86:GLN:HG3	2:I:140:GLY:HA2	1.87	0.57
2:I:211:ARG:HD3	2:I:357:ASN:O	2.04	0.57
2:I:823:VAL:HG12	2:I:1079:ILE:HD11	1.85	0.57
2:I:1042:LEU:HD12	2:I:1046:VAL:HG23	1.85	0.57
2:I:1191:LYS:HD3	2:I:1193:ALA:H	1.69	0.57
2:I:1242:LYS:O	2:I:1244:HIS:ND1	2.36	0.57
3:J:56:LEU:HD21	3:J:269:TYR:HB3	1.84	0.57
3:J:327:LEU:O	3:J:330:MET:N	2.26	0.57
3:J:372:MET:O	3:J:376:LEU:N	2.37	0.57
3:J:807:LEU:HD23	3:J:915:ILE:HG13	1.85	0.57
3:J:858:VAL:CG1	3:J:872:LEU:HD11	2.34	0.57
3:J:903:LEU:HB3	3:J:905:ARG:N	2.19	0.57
5:L:461:ASN:O	5:L:465:ARG:N	2.30	0.57
1:B:81:ILE:O	1:B:85:LEU:HG	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:63:SER:C	2:C:65:ASN:N	2.58	0.57
2:C:746:ALA:HB1	2:C:974:ARG:HH21	1.70	0.57
2:C:747:GLY:HA2	2:C:970:GLY:O	2.05	0.57
2:C:1269:ARG:CB	3:D:343:LEU:HG	2.34	0.57
3:D:93:THR:HG22	3:D:94:GLN:H	1.69	0.57
3:D:265:LEU:HD13	3:D:327:LEU:HD21	1.86	0.57
3:D:1313:SER:OG	3:D:1314:LEU:N	2.37	0.57
5:F:389:SER:OG	5:F:390:ILE:N	2.35	0.57
5:F:511:ILE:HG23	5:F:512:GLY:N	2.19	0.57
1:G:97:GLU:HG3	1:G:145:LYS:HE2	1.87	0.57
2:I:151:ARG:CZ	2:I:445:ILE:HD11	2.34	0.57
2:I:152:SER:OG	2:I:153:PRO:O	2.22	0.57
2:I:785:ASP:HB3	2:I:789:THR:OG1	2.05	0.57
2:I:879:GLY:HA2	2:I:921:PRO:O	2.04	0.57
3:J:746:LEU:CG	3:J:758:PRO:HG3	2.34	0.57
3:J:1262:ARG:CZ	3:J:1262:ARG:CB	2.83	0.57
3:J:1322:ALA:HA	3:J:1325:PHE:CE2	2.39	0.57
4:K:36:ASP:HB2	4:K:37:PRO:HD2	1.85	0.57
2:C:84:GLU:OE1	2:C:1035:LYS:HD2	2.04	0.57
2:C:292:ILE:O	2:C:292:ILE:HG22	2.04	0.57
2:C:367:TYR:CD1	2:C:381:ALA:HA	2.35	0.57
2:C:637:ARG:HA	2:C:642:SER:HA	1.85	0.57
2:C:850:ILE:HG13	2:C:1048:LYS:HD3	1.85	0.57
3:D:655:SER:HA	3:D:658:GLU:CB	2.35	0.57
3:D:843:VAL:CG1	3:D:897:HIS:O	2.52	0.57
3:D:1259:GLN:HA	3:D:1259:GLN:NE2	2.19	0.57
5:F:137:TYR:HD2	5:F:140:ALA:HB2	1.66	0.57
1:G:37:HIS:CD2	1:G:187:VAL:HG21	2.40	0.57
2:I:130:MET:HA	2:I:136:PHE:CD1	2.40	0.57
2:I:1046:VAL:C	2:I:1047:LEU:HD23	2.25	0.57
2:I:1128:ILE:HD12	2:I:1176:LEU:CB	2.35	0.57
3:J:265:LEU:HD21	3:J:330:MET:SD	2.44	0.57
3:J:435:GLN:HB2	3:J:457:TYR:OH	2.04	0.57
3:J:903:LEU:HB3	3:J:905:ARG:H	1.68	0.57
3:J:1234:VAL:HG23	3:J:1235:ASN:N	2.19	0.57
3:J:1241:TYR:HD1	3:J:1241:TYR:H	1.53	0.57
5:L:212:ILE:O	5:L:214:PRO:HD3	2.05	0.57
2:C:202:ARG:HH11	2:C:369:MET:HG3	1.69	0.57
2:C:599:VAL:CG2	2:C:629:PHE:HE1	2.18	0.57
2:C:1210:ILE:O	2:C:1224:PRO:HA	2.04	0.57
3:D:242:LEU:HD23	3:D:243:PRO:CD	2.32	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:82:LEU:N	1:G:82:LEU:HD23	2.20	0.57
1:H:44:ARG:O	1:H:48:LEU:HB2	2.04	0.57
2:I:93:SER:OG	2:I:126:GLU:HB3	2.04	0.57
2:I:477:GLU:O	2:I:480:SER:HB3	2.04	0.57
2:I:532:ALA:HB1	2:I:538:LEU:CD1	2.35	0.57
2:I:599:VAL:CG2	2:I:629:PHE:HE1	2.17	0.57
2:I:729:ALA:O	2:I:755:LYS:HE2	2.04	0.57
2:I:1281:TYR:HE2	3:J:431:ARG:CB	2.18	0.57
3:J:75:TYR:N	3:J:75:TYR:HD1	2.03	0.57
3:J:309:ASN:H	3:J:326:SER:CB	2.17	0.57
3:J:350:SER:HA	3:J:468:VAL:O	2.04	0.57
3:J:521:LYS:HD2	3:J:541:LEU:O	2.04	0.57
3:J:866:GLU:OE2	3:J:901:ARG:NH2	2.38	0.57
5:L:119:ILE:O	5:L:122:ARG:N	2.38	0.57
1:A:98:VAL:HG21	1:A:121:VAL:HG21	1.86	0.57
2:C:344:GLY:HA3	2:C:346:TYR:CZ	2.39	0.57
2:C:382:GLU:O	2:C:386:GLU:HG2	2.05	0.57
2:C:501:ALA:O	2:C:504:GLU:HB3	2.03	0.57
2:C:857:VAL:HG21	2:C:862:LEU:HD21	1.87	0.57
2:C:1113:LEU:HG	3:D:641:ILE:HD11	1.86	0.57
3:D:198:CYS:HB3	3:D:202:ARG:CZ	2.34	0.57
3:D:348:ASP:HB3	3:D:349:TYR:CD1	2.39	0.57
3:D:474:LEU:CD1	3:D:477:GLN:HE21	2.18	0.57
3:D:788:LEU:CD1	3:D:791:ALA:HB3	2.35	0.57
3:D:903:LEU:HB2	3:D:905:ARG:HG3	1.87	0.57
5:F:476:ARG:HB3	5:F:477:GLU:HG2	1.85	0.57
1:H:16:ILE:HA	1:H:26:VAL:HG22	1.86	0.57
2:I:74:ARG:NH2	2:I:97:ARG:HG3	2.19	0.57
2:I:397:LEU:HB3	2:I:401:GLY:HA3	1.86	0.57
2:I:452:ARG:NH1	2:I:584:TYR:O	2.38	0.57
2:I:616:ILE:HG22	2:I:617:ALA:O	2.04	0.57
2:I:764:CYS:HB2	2:I:833:ILE:HG13	1.87	0.57
2:I:1017:GLN:O	2:I:1021:LEU:HG	2.04	0.57
2:I:1191:LYS:CE	2:I:1192:GLU:HB2	2.34	0.57
3:J:16:GLU:HA	3:J:16:GLU:OE2	2.05	0.57
3:J:557:LYS:HA	3:J:563:LEU:HA	1.86	0.57
3:J:584:PRO:CD	3:J:587:LEU:HD13	2.35	0.57
5:L:117:ILE:HG13	5:L:421:TYR:HB2	1.86	0.57
5:L:387:VAL:HA	5:L:390:ILE:HD11	1.86	0.57
1:B:289:LEU:CB	1:B:300:LEU:HD21	2.34	0.57
2:C:745:GLU:HB2	2:C:1017:GLN:CB	2.34	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:764:CYS:HB3	2:C:831:ILE:HG22	1.85	0.57
2:C:887:VAL:HB	2:C:913:VAL:HG22	1.86	0.57
2:C:942:ASP:O	2:C:945:ALA:HB3	2.05	0.57
3:D:431:ARG:N	3:D:921:GLN:OE1	2.37	0.57
5:F:286:LEU:HD11	5:F:290:LEU:HD11	1.86	0.57
5:F:324:LYS:HG3	5:F:326:TRP:CZ2	2.40	0.57
1:H:95:LYS:HD3	1:H:120:ASP:HB2	1.87	0.57
2:I:10:ARG:NH2	2:I:790:ASP:OD2	2.38	0.57
2:I:31:GLN:NE2	2:I:145:ILE:O	2.37	0.57
2:I:184:LEU:HD12	2:I:185:ASP:N	2.20	0.57
2:I:237:LEU:CD1	2:I:292:ILE:HD11	2.35	0.57
2:I:564:PRO:O	2:I:569:ILE:HG23	2.05	0.57
2:I:810:TYR:HD1	2:I:1078:LYS:HD2	1.69	0.57
3:J:650:LYS:HE2	3:J:654:ILE:HD11	1.86	0.57
3:J:748:ALA:CB	3:J:754:ILE:HA	2.34	0.57
5:L:433:TRP:NE1	5:L:437:GLN:OE1	2.36	0.57
1:A:28:LEU:HD12	1:A:28:LEU:N	2.18	0.57
1:A:60:GLU:CG	1:A:143:ARG:HH21	2.18	0.57
1:B:76:GLU:CA	1:B:80:GLU:HG2	2.35	0.57
2:C:130:MET:HG3	2:C:134:GLY:HA2	1.86	0.57
2:C:310:ILE:HG21	2:C:325:LEU:HB3	1.86	0.57
2:C:1107:MET:CE	3:D:736:GLN:HG2	2.34	0.57
2:C:1256:GLN:O	2:C:1301:ARG:NH2	2.38	0.57
2:C:1329:GLU:HA	3:D:245:LEU:CD1	2.35	0.57
3:D:161:THR:HG22	3:D:164:GLN:CG	2.35	0.57
3:D:1199:PHE:HB2	3:D:1202:GLU:HB2	1.87	0.57
4:E:59:ILE:HG23	4:E:64:LEU:HD21	1.85	0.57
5:F:240:ARG:HD3	5:F:244:THR:CG2	2.34	0.57
5:F:345:GLN:O	5:F:348:GLU:HB2	2.05	0.57
5:F:367:ILE:HD13	5:F:367:ILE:N	2.18	0.57
1:G:73:GLY:HA2	2:I:726:TYR:OH	2.04	0.57
1:G:79:LEU:HD13	1:G:83:LEU:HD13	1.87	0.57
1:G:191:ARG:HH12	1:G:198:LEU:H	1.53	0.57
2:I:517:GLN:HE21	2:I:759:SER:CB	2.18	0.57
2:I:569:ILE:O	2:I:571:LEU:N	2.37	0.57
2:I:1143:GLU:OE1	2:I:1147:ARG:NH1	2.38	0.57
2:I:1281:TYR:N	2:I:1281:TYR:HD2	2.03	0.57
2:I:1282:GLY:O	3:J:1360:GLY:HA3	2.05	0.57
2:I:1323:PHE:CD1	2:I:1327:LEU:HD11	2.40	0.57
3:J:210:SER:O	3:J:214:ARG:HG2	2.05	0.57
3:J:491:LEU:HD22	3:J:497:GLU:O	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:572:THR:HG21	3:J:589:TYR:OH	2.04	0.57
3:J:608:CYS:HG	3:J:620:PHE:HD2	1.51	0.57
3:J:866:GLU:N	3:J:866:GLU:OE1	2.35	0.57
1:A:227:GLN:HG2	1:B:35:PHE:HD2	1.68	0.57
1:B:69:SER:H	1:B:78:ILE:CD1	2.15	0.57
1:B:104:LYS:CG	1:B:110:VAL:HG22	2.34	0.57
1:B:301:THR:OG1	1:B:304:LYS:NZ	2.37	0.57
2:C:201:ARG:HB3	2:C:369:MET:CE	2.35	0.57
2:C:1108:ASN:O	2:C:1110:GLY:N	2.38	0.57
2:C:1138:VAL:HG11	2:C:1165:SER:O	2.05	0.57
3:D:357:VAL:CG2	3:D:461:PHE:CE1	2.78	0.57
3:D:591:ILE:CG2	3:D:592:VAL:HG13	2.31	0.57
5:F:343:LYS:O	5:F:347:ILE:HG13	2.05	0.57
5:F:485:GLU:C	5:F:487:MET:H	2.07	0.57
2:I:390:PHE:CA	2:I:419:ILE:HG21	2.33	0.57
2:I:528:ARG:HD3	2:I:663:VAL:HG21	1.85	0.57
2:I:563:THR:HG21	2:I:569:ILE:HG22	1.86	0.57
2:I:748:ILE:HD13	2:I:748:ILE:N	2.20	0.57
2:I:1043:ALA:O	2:I:1046:VAL:HG13	2.03	0.57
2:I:1069:ARG:NH2	2:I:1231:TYR:HB3	2.19	0.57
2:I:1223:ARG:HB2	3:J:636:GLY:O	2.05	0.57
2:I:1285:TYR:HD1	3:J:1361:THR:HG21	1.70	0.57
3:J:114:ILE:HB	3:J:304:ASP:OD1	2.05	0.57
3:J:205:LEU:C	3:J:205:LEU:HD13	2.24	0.57
3:J:500:ILE:HG22	3:J:500:ILE:O	2.05	0.57
3:J:555:TYR:CE1	3:J:565:ALA:HB2	2.40	0.57
3:J:1159:ILE:HD12	3:J:1160:SER:H	1.70	0.57
5:L:120:ALA:CB	5:L:421:TYR:HB3	2.35	0.57
1:A:56:VAL:CG2	1:A:173:VAL:HG21	2.35	0.56
1:B:256:PRO:O	1:B:258:ASP:N	2.37	0.56
1:B:269:CYS:O	1:B:272:ALA:HB3	2.05	0.56
1:B:278:ILE:C	1:B:280:ASP:H	2.07	0.56
1:B:295:LEU:HD21	1:B:300:LEU:HD23	1.87	0.56
2:C:524:ILE:CD1	2:C:712:SER:CB	2.82	0.56
2:C:1305:TYR:OH	5:F:532:LEU:HG	2.05	0.56
3:D:298:MET:O	3:D:301:GLU:HB3	2.04	0.56
3:D:606:ASN:OD1	3:D:610:ARG:NE	2.38	0.56
3:D:1259:GLN:HE21	3:D:1262:ARG:NH1	2.03	0.56
5:F:141:ILE:O	5:F:144:LEU:HB3	2.05	0.56
2:I:672:GLU:HG2	2:I:1187:PHE:HD2	1.70	0.56
3:J:576:ARG:HB3	3:J:592:VAL:O	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:1321:SER:O	3:J:1324:SER:HB2	2.05	0.56
5:L:446:GLN:HG3	5:L:446:GLN:O	2.05	0.56
5:L:476:ARG:C	5:L:477:GLU:HG2	2.25	0.56
5:L:479:THR:O	5:L:482:GLU:N	2.38	0.56
1:A:12:ARG:H	1:A:30:PRO:HD2	1.68	0.56
1:A:18:GLN:HG3	1:A:24:ALA:HB2	1.86	0.56
1:A:54:CYS:HB3	1:A:148:ARG:CA	2.26	0.56
2:C:463:GLN:HE22	2:C:501:ALA:HB1	1.70	0.56
2:C:490:GLN:HG3	5:F:472:GLN:HB3	1.88	0.56
2:C:689:ALA:HB2	2:C:1233:LEU:HD23	1.85	0.56
2:C:1128:ILE:HD13	2:C:1145:ILE:HD11	1.86	0.56
3:D:317:THR:HG23	3:D:318:GLY:O	2.05	0.56
3:D:396:ALA:HB2	5:F:606:VAL:CG1	2.34	0.56
3:D:415:VAL:CG2	3:D:416:ILE:HD13	2.35	0.56
3:D:532:GLU:HG3	3:D:532:GLU:O	2.05	0.56
5:F:374:ARG:HH11	5:F:374:ARG:HG3	1.70	0.56
1:H:124:VAL:HG21	1:H:209:GLY:C	2.26	0.56
1:H:196:THR:HG22	1:H:197:ASP:N	2.21	0.56
1:H:225:ALA:O	1:H:228:LEU:HB2	2.05	0.56
2:I:53:PHE:CE2	2:I:73:TYR:HB3	2.37	0.56
2:I:57:PHE:HD1	2:I:70:TYR:N	2.02	0.56
2:I:489:PRO:O	2:I:490:GLN:HB2	2.05	0.56
3:J:74:LYS:HD2	3:J:87:LYS:H22	1.68	0.56
3:J:153:ASN:H	3:J:154:LEU:HD12	1.69	0.56
3:J:211:GLU:OE2	3:J:214:ARG:NH1	2.38	0.56
3:J:770:LEU:HD13	3:J:770:LEU:N	2.20	0.56
5:L:511:ILE:HG23	5:L:512:GLY:N	2.20	0.56
1:A:102:LEU:HD22	1:A:103:ASN:N	2.20	0.56
1:A:194:GLN:O	1:A:195:ARG:HB2	2.04	0.56
1:B:53:GLY:HA3	1:B:179:PRO:HD3	1.85	0.56
1:B:79:LEU:HD23	1:B:79:LEU:H	1.70	0.56
1:B:264:VAL:O	1:B:267:ALA:HB3	2.06	0.56
2:C:39:ILE:HD11	2:C:75:LEU:HG	1.86	0.56
2:C:215:TYR:CE2	2:C:422:LYS:HD2	2.38	0.56
2:C:245:ARG:HG2	2:C:337:PHE:CE2	2.40	0.56
2:C:268:ARG:NH2	2:C:270:THR:HG21	2.20	0.56
2:C:300:ASP:OD1	2:C:313:ALA:N	2.38	0.56
2:C:698:PRO:HB3	2:C:1231:TYR:CZ	2.41	0.56
2:C:818:VAL:HG22	2:C:1096:ILE:HG12	1.86	0.56
2:C:998:LEU:H	2:C:998:LEU:HD12	1.70	0.56
2:C:1334:GLY:O	3:D:25:ALA:HB2	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:41:PRO:HA	3:D:56:LEU:HD11	1.85	0.56
3:D:199:GLU:O	3:D:203:GLU:HG3	2.05	0.56
3:D:291:ILE:HG23	5:F:406:GLN:OE1	2.06	0.56
3:D:316:ILE:O	3:D:324:LEU:HD11	2.05	0.56
3:D:344:GLY:O	3:D:345:LYS:O	2.23	0.56
3:D:612:LEU:HD12	3:D:612:LEU:N	2.20	0.56
3:D:620:PHE:O	3:D:624:ILE:N	2.36	0.56
3:D:672:LEU:HD12	3:D:672:LEU:H	1.69	0.56
3:D:750:PRO:O	3:D:752:GLY:N	2.38	0.56
3:D:754:ILE:HG13	3:D:755:ILE:N	2.20	0.56
3:D:810:THR:OG1	3:D:811:GLU:N	2.38	0.56
3:D:1142:ALA:O	3:D:1146:GLU:HB2	2.05	0.56
5:F:107:THR:O	5:F:107:THR:OG1	2.18	0.56
5:F:562:ARG:O	5:F:563:PHE:HD1	1.88	0.56
1:G:11:PRO:HD3	1:H:227:GLN:OE1	2.04	0.56
1:H:85:LEU:C	1:H:87:GLY:N	2.57	0.56
1:H:86:LYS:NZ	1:H:174:ASP:OD2	2.37	0.56
2:I:76:GLY:CA	2:I:95:PRO:HD2	2.34	0.56
2:I:510:GLN:NE2	2:I:534:GLY:HA2	2.20	0.56
2:I:698:PRO:HG3	2:I:1231:TYR:CZ	2.41	0.56
2:I:1334:GLY:O	3:J:25:ALA:HB3	2.05	0.56
3:J:34:SER:OG	3:J:36:GLY:O	2.22	0.56
3:J:101:ARG:HG2	3:J:101:ARG:HH11	1.70	0.56
3:J:485:MET:HG3	3:J:486:SER:N	2.20	0.56
3:J:663:GLU:O	3:J:667:GLN:HG3	2.05	0.56
3:J:750:PRO:O	3:J:752:GLY:N	2.39	0.56
3:J:1241:TYR:O	3:J:1244:GLN:N	2.36	0.56
3:J:1252:HIS:O	3:J:1255:VAL:CG1	2.53	0.56
5:L:274:ARG:HG2	5:L:365:MET:HE3	1.88	0.56
5:L:297:MET:HG3	5:L:326:TRP:CE3	2.39	0.56
5:L:497:VAL:HG12	5:L:498:LEU:HD22	1.87	0.56
1:A:217:ILE:O	1:A:220:ALA:HB3	2.05	0.56
1:B:196:THR:HG22	1:B:197:ASP:CB	2.35	0.56
1:B:224:LEU:C	1:B:224:LEU:HD12	2.26	0.56
3:D:674:THR:HG23	3:D:677:GLU:OE1	2.06	0.56
3:D:748:ALA:CA	3:D:754:ILE:HA	2.34	0.56
3:D:1358:PRO:HB3	3:D:1366:HIS:ND1	2.21	0.56
5:F:121:LYS:HE2	5:F:421:TYR:CE1	2.40	0.56
5:F:439:ILE:O	5:F:443:ILE:HG13	2.05	0.56
5:F:497:VAL:HG12	5:F:498:LEU:N	2.21	0.56
2:I:82:VAL:HG22	2:I:92:TYR:CE1	2.39	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:369:MET:O	2:I:372:PRO:HD3	2.05	0.56
2:I:521:LEU:O	2:I:524:ILE:HG22	2.04	0.56
2:I:1305:TYR:CE2	5:L:532:LEU:HA	2.41	0.56
3:J:302:ALA:O	3:J:305:ALA:HB3	2.06	0.56
3:J:322:ARG:CG	3:J:323:PRO:HD2	2.35	0.56
3:J:611:ILE:CG2	3:J:612:LEU:HD12	2.34	0.56
3:J:709:ARG:HD2	3:J:710:ASP:H	1.69	0.56
3:J:781:LYS:HG2	3:J:785:ASP:OD2	2.06	0.56
3:J:865:HIS:HE1	3:J:867:GLN:HB2	1.67	0.56
3:J:1209:VAL:C	3:J:1210:ILE:HD13	2.26	0.56
3:J:1332:LEU:HD22	3:J:1332:LEU:H	1.68	0.56
3:J:1332:LEU:H	3:J:1332:LEU:CD2	2.19	0.56
4:K:71:GLU:O	4:K:75:GLN:HG3	2.05	0.56
5:L:251:LYS:O	5:L:254:GLU:HB2	2.06	0.56
5:L:355:ILE:HA	5:L:358:VAL:CG2	2.35	0.56
5:L:461:ASN:HA	5:L:464:ASN:HB2	1.86	0.56
1:A:27:THR:HG22	1:A:200:LYS:HG3	1.87	0.56
1:A:117:HIS:CE1	1:A:119:GLY:HA2	2.40	0.56
1:B:256:PRO:HA	1:B:277:TYR:HA	1.87	0.56
2:C:624:ASP:OD1	2:C:625:GLU:N	2.25	0.56
2:C:670:PHE:CD2	2:C:1113:LEU:CB	2.87	0.56
2:C:1082:ILE:H	2:C:1082:ILE:HD12	1.69	0.56
2:C:1142:ARG:NH2	2:C:1165:SER:CB	2.66	0.56
5:F:495:ARG:CA	5:F:498:LEU:HD23	2.24	0.56
1:G:124:VAL:HG21	1:G:210:THR:N	2.20	0.56
2:I:669:PRO:CA	2:I:702:THR:HG22	2.36	0.56
2:I:685:MET:O	2:I:1235:LEU:HD11	2.05	0.56
2:I:1272:GLU:CB	3:J:342:LEU:HG	2.35	0.56
3:J:37:GLU:O	3:J:39:LYS:HG3	2.06	0.56
3:J:267:ASP:HA	3:J:270:ARG:HH21	1.69	0.56
3:J:580:TRP:CA	3:J:583:VAL:HG23	2.34	0.56
1:A:71:LYS:HB3	1:A:74:VAL:HG13	1.85	0.56
1:B:151:GLY:H	1:B:177:TYR:CB	2.19	0.56
2:C:263:VAL:HG13	2:C:267:ARG:HB3	1.86	0.56
2:C:312:ALA:HB3	2:C:315:MET:HE3	1.86	0.56
2:C:551:HIS:O	2:C:554:HIS:N	2.33	0.56
2:C:617:ALA:HB3	2:C:653:MET:HG3	1.88	0.56
2:C:893:THR:O	2:C:894:GLN:HB3	2.06	0.56
2:C:1079:ILE:O	2:C:1079:ILE:HG23	2.06	0.56
3:D:55:GLY:O	3:D:57:PHE:N	2.38	0.56
3:D:233:LYS:HB3	3:D:235:GLU:OE2	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:872:LEU:HD22	3:D:877:VAL:CG2	2.36	0.56
3:D:1156:LEU:HG	3:D:1224:ARG:HH21	1.71	0.56
2:I:13:LYS:N	2:I:1181:PRO:O	2.30	0.56
2:I:664:GLY:O	2:I:667:LEU:HB2	2.05	0.56
2:I:737:ASN:HB3	2:I:739:ASP:OD1	2.06	0.56
2:I:1142:ARG:HH11	2:I:1169:VAL:HG21	1.70	0.56
3:J:52:GLU:HG2	5:L:451:ARG:HH11	1.67	0.56
3:J:368:LEU:HD23	3:J:369:PRO:N	2.20	0.56
3:J:1256:ILE:O	3:J:1259:GLN:HB2	2.05	0.56
4:K:29:GLN:O	4:K:35:LYS:N	2.38	0.56
5:L:102:MET:O	5:L:105:MET:N	2.39	0.56
5:L:106:GLY:O	5:L:108:VAL:N	2.39	0.56
1:B:183:ILE:HG22	1:B:205:MET:CG	2.16	0.56
2:C:28:LEU:HD21	2:C:527:LYS:HD2	1.87	0.56
2:C:685:MET:HE1	2:C:1071:GLY:HA2	1.85	0.56
2:C:758:ARG:HA	2:C:833:ILE:HG21	1.88	0.56
2:C:929:ILE:O	2:C:930:ASP:HB2	2.05	0.56
2:C:1160:ASP:HB2	2:C:1162:SER:H	1.70	0.56
2:C:1328:LYS:HE2	3:D:102:MET:CG	2.35	0.56
2:C:1340:GLU:HG3	3:D:21:LYS:HB2	1.88	0.56
3:D:517:CYS:H	3:D:545:HIS:HB2	1.70	0.56
3:D:704:GLU:O	3:D:706:VAL:N	2.38	0.56
5:F:525:ASP:OD2	5:F:528:LEU:HG	2.06	0.56
1:G:45:ARG:O	1:G:45:ARG:HD3	2.04	0.56
1:G:79:LEU:O	1:G:79:LEU:HD13	2.05	0.56
1:H:74:VAL:HG11	1:H:81:ILE:HD11	1.88	0.56
2:I:148:GLN:OE1	2:I:454:ARG:NH1	2.39	0.56
2:I:1143:GLU:OE1	2:I:1147:ARG:HD3	2.05	0.56
2:I:1296:ASP:OD2	2:I:1321:GLU:N	2.39	0.56
3:J:44:ILE:CD1	3:J:260:PHE:CE2	2.88	0.56
3:J:44:ILE:HG13	5:L:450:ILE:HG22	1.87	0.56
3:J:135:ILE:HG23	3:J:185:ILE:HD12	1.88	0.56
3:J:138:VAL:HG11	3:J:145:VAL:HG11	1.88	0.56
3:J:544:LEU:O	3:J:575:GLY:N	2.38	0.56
3:J:670:SER:HB2	3:J:672:LEU:HD13	1.86	0.56
3:J:1348:LYS:O	3:J:1352:ILE:HD13	2.06	0.56
1:A:134:THR:HG23	2:C:726:TYR:CE1	2.41	0.56
1:A:190:ALA:O	1:A:191:ARG:NH1	2.39	0.56
2:C:30:ILE:HD12	2:C:30:ILE:N	2.19	0.56
2:C:179:TYR:OH	2:C:458:GLU:OE2	2.19	0.56
2:C:660:VAL:HG22	2:C:661:VAL:CG1	2.36	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:838:CYS:HB2	2:C:918:LEU:HB3	1.87	0.56
3:D:627:THR:HG23	3:D:628:GLY:H	1.71	0.56
3:D:849:LEU:HD22	3:D:849:LEU:N	2.15	0.56
5:F:117:ILE:HG23	5:F:421:TYR:CD1	2.41	0.56
5:F:347:ILE:HG22	5:F:351:THR:HG23	1.88	0.56
2:I:70:TYR:CZ	2:I:72:SER:HA	2.41	0.56
2:I:538:LEU:HD23	2:I:542:ARG:NH1	2.21	0.56
2:I:710:VAL:HA	2:I:715:THR:CG2	2.35	0.56
2:I:878:THR:OG1	2:I:879:GLY:N	2.34	0.56
2:I:897:PRO:HB3	5:L:565:ILE:HB	1.87	0.56
2:I:1131:MET:HE2	2:I:1141:LEU:CD1	2.19	0.56
3:J:368:LEU:HD23	3:J:369:PRO:O	2.06	0.56
3:J:517:CYS:N	3:J:545:HIS:HB2	2.15	0.56
5:L:462:LYS:O	5:L:466:ILE:N	2.22	0.56
2:C:242:VAL:HG23	2:C:245:ARG:HD2	1.87	0.56
2:C:285:ILE:HD12	2:C:286:GLU:O	2.06	0.56
2:C:617:ALA:HB3	2:C:653:MET:CG	2.36	0.56
2:C:1164:PHE:HB2	2:C:1168:GLU:OE1	2.06	0.56
3:D:34:SER:OG	3:D:103:GLY:HA2	2.06	0.56
3:D:325:LYS:HE3	3:D:330:MET:HG2	1.88	0.56
3:D:797:THR:O	3:D:800:LEU:N	2.39	0.56
3:D:1279:GLN:HB3	3:D:1281:GLU:OE2	2.06	0.56
5:F:268:TYR:O	5:F:271:ASN:HB3	2.06	0.56
2:I:211:ARG:HH22	2:I:351:LEU:HD21	1.71	0.56
2:I:213:LEU:N	2:I:213:LEU:HD23	2.20	0.56
2:I:1127:LYS:HE3	2:I:1201:LEU:O	2.06	0.56
3:J:734:ALA:HA	3:J:737:ILE:HG12	1.88	0.56
3:J:905:ARG:NH1	4:K:16:ARG:HB2	2.21	0.56
3:J:1199:PHE:HB2	3:J:1202:GLU:CB	2.35	0.56
5:L:596:ARG:HA	5:L:596:ARG:HE	1.69	0.56
1:B:286:GLU:OE2	1:B:304:LYS:HD3	2.06	0.56
2:C:637:ARG:HA	2:C:641:GLU:O	2.05	0.56
2:C:680:LEU:HD13	3:D:783:LEU:CD1	2.36	0.56
2:C:720:ARG:NH2	2:C:742:TYR:H	2.04	0.56
2:C:1191:LYS:NZ	2:C:1193:ALA:H	2.04	0.56
3:D:116:PHE:CD1	3:D:1333:THR:HG22	2.41	0.56
3:D:279:LEU:HD12	3:D:295:GLU:CB	2.35	0.56
3:D:495:ASN:O	3:D:495:ASN:ND2	2.39	0.56
3:D:515:ARG:C	3:D:545:HIS:HB3	2.26	0.56
3:D:707:ILE:HD12	3:D:714:GLU:O	2.05	0.56
3:D:1155:ILE:C	3:D:1156:LEU:HD13	2.26	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:386:LEU:O	5:F:389:SER:OG	2.16	0.56
5:F:484:ALA:HB1	5:F:490:PRO:O	2.06	0.56
1:G:27:THR:C	1:G:28:LEU:HD12	2.26	0.56
1:G:88:LEU:HD11	1:G:125:LYS:HG3	1.88	0.56
1:G:191:ARG:NH1	1:G:198:LEU:H	2.04	0.56
2:I:12:ARG:HG3	2:I:1181:PRO:CB	2.36	0.56
2:I:231:GLU:OE2	2:I:233:ARG:HD2	2.06	0.56
2:I:810:TYR:CE2	3:J:359:PRO:CD	2.78	0.56
2:I:1182:ILE:HG22	2:I:1183:ALA:N	2.19	0.56
2:I:1259:LEU:HD12	3:J:346:ARG:NH1	2.21	0.56
3:J:56:LEU:HD12	3:J:56:LEU:H	1.70	0.56
3:J:128:LEU:HD11	3:J:189:LEU:CD2	2.33	0.56
3:J:641:ILE:HA	3:J:644:MET:CE	2.36	0.56
3:J:848:VAL:HB	3:J:857:LEU:HD12	1.88	0.56
3:J:1292:LEU:HD12	3:J:1292:LEU:N	2.21	0.56
1:B:81:ILE:O	1:B:83:LEU:N	2.39	0.55
1:B:206:GLU:OE1	3:D:531:LYS:NZ	2.24	0.55
2:C:42:ASP:OD1	2:C:44:GLU:HG2	2.06	0.55
2:C:582:ASN:HB3	2:C:586:PHE:H	1.71	0.55
2:C:817:LEU:HD21	2:C:1085:MET:HE1	1.87	0.55
2:C:886:LYS:H	2:C:917:SER:HB3	1.71	0.55
2:C:1164:PHE:C	2:C:1166:ASP:H	2.08	0.55
3:D:827:GLU:O	3:D:829:GLY:N	2.39	0.55
3:D:847:ASP:OD2	3:D:860:ARG:HG2	2.06	0.55
3:D:1138:LEU:HB3	3:D:1139:PRO:HD3	1.88	0.55
3:D:1356:LEU:O	3:D:1366:HIS:HE1	1.89	0.55
4:E:48:VAL:O	4:E:51:LEU:HB2	2.05	0.55
5:F:275:VAL:O	5:F:278:ASP:HB2	2.05	0.55
1:G:71:LYS:HB3	1:G:74:VAL:HG13	1.88	0.55
1:H:74:VAL:HG22	1:H:132:HIS:O	2.06	0.55
2:I:385:PHE:HE2	2:I:390:PHE:CE2	2.24	0.55
2:I:593:LYS:HE3	2:I:595:THR:CG2	2.36	0.55
3:J:181:GLY:O	3:J:183:GLU:HG3	2.06	0.55
3:J:295:GLU:O	3:J:298:MET:N	2.39	0.55
3:J:351:GLY:O	3:J:352:ARG:HB3	2.06	0.55
3:J:608:CYS:SG	3:J:620:PHE:HD2	2.29	0.55
3:J:793:SER:O	3:J:797:THR:N	2.37	0.55
3:J:888:CYS:SG	3:J:890:THR:N	2.75	0.55
3:J:1155:ILE:O	3:J:1156:LEU:HD13	2.06	0.55
3:J:1257:VAL:HA	3:J:1260:MET:HG3	1.88	0.55
5:L:595:LEU:O	5:L:598:LEU:HD23	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:109:PRO:HA	1:B:132:HIS:HA	1.87	0.55
1:B:289:LEU:HA	1:B:295:LEU:HD13	1.88	0.55
2:C:316:GLU:H	2:C:316:GLU:CD	2.10	0.55
2:C:337:PHE:HD1	2:C:337:PHE:C	2.10	0.55
2:C:558:VAL:CG1	2:C:559:CYS:N	2.68	0.55
2:C:841:ARG:HH11	2:C:841:ARG:HG3	1.70	0.55
2:C:870:ILE:HD11	2:C:1050:VAL:HG11	1.88	0.55
2:C:1155:VAL:HG12	2:C:1156:ARG:N	2.19	0.55
2:C:1281:TYR:CD2	3:D:431:ARG:HB2	2.40	0.55
3:D:615:LYS:HE2	3:D:616:PRO:CD	2.32	0.55
3:D:795:TYR:HE2	3:D:799:ARG:CD	2.20	0.55
5:F:96:ASP:OD1	5:F:98:VAL:HG13	2.05	0.55
5:F:573:LEU:CD1	5:F:573:LEU:N	2.70	0.55
1:H:13:LEU:HA	1:H:28:LEU:HD12	1.89	0.55
2:I:34:SER:O	2:I:457:GLY:HA3	2.07	0.55
2:I:159:SER:HA	2:I:172:TYR:HD1	1.70	0.55
2:I:277:LEU:HA	2:I:280:ASP:HB2	1.87	0.55
2:I:564:PRO:HD3	2:I:572:ILE:HB	1.88	0.55
2:I:802:VAL:HG23	2:I:1098:LEU:HD13	1.87	0.55
2:I:839:VAL:HG12	2:I:1049:ILE:HD13	1.86	0.55
2:I:1075:VAL:N	3:J:461:PHE:O	2.32	0.55
2:I:1327:LEU:HD12	2:I:1327:LEU:H	1.72	0.55
3:J:272:VAL:HG22	3:J:302:ALA:HB1	1.86	0.55
3:J:352:ARG:HB3	3:J:467:ALA:HA	1.89	0.55
3:J:743:MET:HB2	3:J:760:THR:HA	1.88	0.55
3:J:839:VAL:HG13	3:J:882:VAL:HG21	1.89	0.55
3:J:1313:SER:OG	3:J:1314:LEU:N	2.39	0.55
4:K:53:GLU:HB3	4:K:59:ILE:CG1	2.30	0.55
1:A:9:LEU:HB2	1:A:32:GLU:CG	2.36	0.55
1:B:54:CYS:SG	1:B:92:VAL:HG23	2.47	0.55
1:B:89:ALA:O	1:B:123:ILE:HD12	2.06	0.55
2:C:189:ASP:HB3	2:C:195:PHE:CE2	2.41	0.55
2:C:1253:LEU:HD13	3:D:253:VAL:CG1	2.36	0.55
3:D:516:ASP:CA	3:D:545:HIS:HB2	2.36	0.55
5:F:574:GLU:OE1	5:F:584:ARG:NH1	2.39	0.55
1:H:9:LEU:HB3	1:H:32:GLU:CG	2.36	0.55
2:I:243:PRO:O	2:I:246:LEU:HD12	2.07	0.55
2:I:413:GLU:HA	2:I:413:GLU:OE2	2.06	0.55
2:I:617:ALA:HB3	2:I:653:MET:CA	2.36	0.55
2:I:903:ARG:O	2:I:907:GLY:N	2.33	0.55
2:I:993:PRO:O	2:I:996:ARG:N	2.37	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:1281:TYR:HD1	3:J:484:MET:HG2	1.70	0.55
3:J:45:ASN:HB3	3:J:50:LYS:H	1.71	0.55
3:J:193:ASP:CG	3:J:196:GLN:HG2	2.26	0.55
3:J:518:VAL:HG23	3:J:547:ARG:NH2	2.21	0.55
3:J:803:VAL:HG21	3:J:1312:ALA:HB3	1.87	0.55
3:J:1225:GLY:O	3:J:1228:ALA:HB3	2.06	0.55
5:L:536:THR:O	5:L:539:SER:HB3	2.06	0.55
2:C:176:ILE:HD11	2:C:428:VAL:HG21	1.89	0.55
2:C:253:PHE:CD1	2:C:255:ILE:HG12	2.41	0.55
2:C:522:SER:HA	2:C:525:THR:CG2	2.35	0.55
2:C:1313:HIS:N	4:E:31:GLN:OE1	2.32	0.55
3:D:450:HIS:HE1	3:D:452:LEU:CD1	2.19	0.55
3:D:506:VAL:HG13	3:D:507:VAL:H	1.72	0.55
3:D:701:LEU:CD1	3:D:723:TYR:HB2	2.37	0.55
5:F:419:PHE:CZ	5:F:427:PHE:HD1	2.23	0.55
5:F:575:GLU:HA	5:F:578:LYS:HG3	1.88	0.55
2:I:145:ILE:O	2:I:145:ILE:HG22	2.06	0.55
2:I:484:LEU:O	2:I:486:THR:N	2.35	0.55
2:I:811:ASN:ND2	2:I:1097:VAL:O	2.39	0.55
2:I:1064:ASP:OD1	2:I:1239:VAL:HG12	2.07	0.55
2:I:1214:ASP:OD1	2:I:1216:ARG:N	2.28	0.55
3:J:37:GLU:HA	3:J:104:HIS:O	2.07	0.55
3:J:52:GLU:CG	5:L:451:ARG:HH11	2.19	0.55
3:J:74:LYS:HD2	3:J:87:LYS:HZ3	1.71	0.55
3:J:279:LEU:HB2	3:J:295:GLU:HG2	1.87	0.55
3:J:295:GLU:O	3:J:298:MET:HB2	2.05	0.55
3:J:357:VAL:HG22	3:J:461:PHE:CD1	2.41	0.55
3:J:513:MET:O	3:J:515:ARG:N	2.36	0.55
3:J:720:ASN:O	3:J:724:MET:HG3	2.07	0.55
3:J:823:THR:C	3:J:835:LEU:HD13	2.27	0.55
3:J:863:LEU:HD11	3:J:901:ARG:HB3	1.89	0.55
3:J:1358:PRO:HB3	3:J:1366:HIS:CG	2.38	0.55
4:K:15:ASN:C	4:K:17:PHE:H	2.10	0.55
1:A:135:ASP:O	1:A:138:ALA:N	2.36	0.55
1:B:37:HIS:CD2	2:C:1216:ARG:HD2	2.41	0.55
1:B:45:ARG:HB3	1:B:45:ARG:HH11	1.72	0.55
2:C:337:PHE:C	2:C:337:PHE:CD1	2.78	0.55
2:C:354:ASP:OD2	2:C:356:THR:OG1	2.20	0.55
2:C:1220:GLN:HG2	2:C:1221:PHE:N	2.21	0.55
3:D:382:TYR:CE1	3:D:398:LYS:HA	2.42	0.55
3:D:511:TYR:OH	3:D:515:ARG:NH1	2.38	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:679:TYR:O	3:D:683:ILE:HG22	2.06	0.55
3:D:751:ASP:HB2	3:D:753:SER:H	1.70	0.55
5:F:274:ARG:O	5:F:277:MET:HB3	2.07	0.55
1:G:219:ARG:HA	1:G:222:THR:HB	1.89	0.55
2:I:62:TYR:C	2:I:64:GLY:N	2.60	0.55
2:I:692:THR:OG1	2:I:798:GLN:NE2	2.36	0.55
2:I:888:THR:O	2:I:913:VAL:HG23	2.06	0.55
2:I:1272:GLU:HB2	3:J:342:LEU:HG	1.88	0.55
3:J:132:LEU:HD13	3:J:132:LEU:C	2.25	0.55
3:J:394:ILE:HA	3:J:397:ALA:CB	2.32	0.55
3:J:1233:ILE:HG21	3:J:1257:VAL:HG22	1.88	0.55
5:L:333:VAL:HG22	5:L:336:GLU:HB2	1.87	0.55
1:A:166:ARG:HD2	1:A:167:PRO:CA	2.36	0.55
1:B:47:LEU:O	1:B:180:VAL:HG21	2.06	0.55
2:C:12:ARG:NE	2:C:793:GLU:OE1	2.38	0.55
2:C:119:GLU:CG	2:C:488:MET:HB3	2.29	0.55
2:C:315:MET:HG2	2:C:316:GLU:OE2	2.06	0.55
2:C:406:ASN:ND2	2:C:413:GLU:HB2	2.22	0.55
2:C:569:ILE:HG22	2:C:570:GLY:N	2.21	0.55
2:C:971:LEU:CD2	2:C:1018:TYR:HD1	2.20	0.55
2:C:1160:ASP:HB2	2:C:1162:SER:N	2.21	0.55
2:C:1212:LEU:HD22	2:C:1225:VAL:CG2	2.37	0.55
2:C:1305:TYR:CE2	5:F:532:LEU:N	2.74	0.55
3:D:108:ALA:HB3	3:D:279:LEU:HD22	1.86	0.55
3:D:190:LYS:HA	3:D:235:GLU:CG	2.34	0.55
3:D:537:TYR:CE2	3:D:544:LEU:HD21	2.41	0.55
3:D:1176:VAL:HA	3:D:1186:TYR:O	2.06	0.55
5:F:316:PHE:O	5:F:320:ILE:HG13	2.07	0.55
5:F:572:THR:CG2	5:F:575:GLU:CB	2.80	0.55
1:H:101:THR:HG23	1:H:116:THR:HB	1.88	0.55
2:I:880:GLY:N	2:I:920:VAL:O	2.38	0.55
2:I:1144:PHE:O	2:I:1147:ARG:N	2.39	0.55
2:I:1148:ALA:O	2:I:1151:LEU:HB2	2.06	0.55
3:J:274:ASN:OD1	5:L:446:GLN:NE2	2.39	0.55
3:J:339:ARG:CD	3:J:340:GLN:HG3	2.37	0.55
3:J:1270:GLY:HA3	3:J:1298:VAL:HG22	1.89	0.55
5:L:277:MET:SD	5:L:362:ASN:ND2	2.80	0.55
5:L:519:LEU:HD13	5:L:519:LEU:C	2.26	0.55
1:A:11:PRO:HA	1:A:30:PRO:HG2	1.88	0.55
1:B:29:GLU:HB3	1:B:200:LYS:CB	2.29	0.55
1:B:196:THR:OG1	3:D:443:GLU:HG3	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:258:ASP:O	1:B:261:GLU:HG3	2.06	0.55
2:C:53:PHE:HE2	2:C:73:TYR:HB3	1.72	0.55
2:C:97:ARG:HH21	5:F:476:ARG:HE	1.52	0.55
2:C:303:ASP:HB3	2:C:306:THR:HG23	1.84	0.55
2:C:555:TYR:CE1	2:C:637:ARG:CZ	2.90	0.55
2:C:606:LEU:HD23	2:C:611:GLU:HA	1.88	0.55
2:C:848:GLU:OE1	2:C:886:LYS:NZ	2.35	0.55
2:C:1284:ALA:HB3	3:D:1361:THR:HB	1.86	0.55
3:D:9:LYS:HG3	3:D:10:ALA:N	2.19	0.55
3:D:510:LEU:HD13	3:D:628:GLY:HA2	1.89	0.55
3:D:646:ILE:HG23	3:D:741:ALA:O	2.06	0.55
3:D:1280:VAL:HG21	3:D:1304:ARG:HH21	1.71	0.55
5:F:439:ILE:O	5:F:442:SER:HB3	2.06	0.55
5:F:491:GLU:O	5:F:494:ILE:N	2.39	0.55
1:G:152:TYR:CD1	2:I:824:GLN:HG2	2.41	0.55
2:I:106:GLU:HG3	2:I:107:ARG:N	2.22	0.55
2:I:270:THR:HG23	2:I:273:HIS:CE1	2.41	0.55
2:I:502:VAL:O	2:I:505:PHE:HB3	2.05	0.55
2:I:799:ASN:HB3	2:I:1231:TYR:HD1	1.72	0.55
2:I:839:VAL:HG12	2:I:1049:ILE:HD11	1.87	0.55
2:I:944:ARG:HA	2:I:947:GLU:HG3	1.89	0.55
2:I:1142:ARG:HD3	2:I:1161:LEU:CD1	2.33	0.55
3:J:85:CYS:SG	3:J:87:LYS:HB2	2.46	0.55
3:J:491:LEU:HB2	3:J:904:ALA:CA	2.33	0.55
3:J:690:ASN:HA	3:J:743:MET:SD	2.47	0.55
3:J:885:VAL:HG12	3:J:894:VAL:CG1	2.37	0.55
3:J:1234:VAL:HG12	3:J:1253:ILE:HG21	1.88	0.55
3:J:1262:ARG:HG3	3:J:1281:GLU:OE1	2.07	0.55
1:A:40:GLY:HA3	1:A:185:TYR:CD2	2.42	0.55
2:C:131:THR:HB	2:C:133:ASN:H	1.70	0.55
2:C:144:VAL:O	2:C:145:ILE:HD12	2.07	0.55
2:C:447:HIS:CE1	2:C:553:THR:HG21	2.41	0.55
2:C:478:ARG:HH12	2:C:482:GLY:CA	2.20	0.55
2:C:729:ALA:O	2:C:755:LYS:NZ	2.36	0.55
2:C:798:GLN:OE1	2:C:827:ARG:NH2	2.26	0.55
2:C:1052:VAL:C	2:C:1053:TYR:HD1	2.10	0.55
2:C:1185:PRO:HG2	2:C:1188:ASP:O	2.06	0.55
2:C:1191:LYS:CE	2:C:1193:ALA:H	2.20	0.55
2:C:1246:ARG:NH1	2:C:1249:GLY:HA3	2.21	0.55
3:D:432:LEU:C	3:D:434:ILE:H	2.09	0.55
3:D:517:CYS:N	3:D:545:HIS:O	2.40	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:850:LYS:HE2	3:D:855:ASP:HB3	1.88	0.55
3:D:888:CYS:SG	3:D:890:THR:CG2	2.89	0.55
5:F:396:ASN:O	5:F:396:ASN:ND2	2.40	0.55
5:F:511:ILE:CG2	5:F:517:SER:HB2	2.37	0.55
2:I:131:THR:OG1	2:I:135:THR:O	2.14	0.55
2:I:1180:MET:HG2	2:I:1181:PRO:CD	2.36	0.55
3:J:83:VAL:HG13	3:J:92:VAL:HG13	1.88	0.55
2:C:396:ASP:OD1	2:C:398:SER:N	2.24	0.55
2:C:1330:ILE:HG23	2:C:1335:ILE:HB	1.88	0.55
3:D:161:THR:CG2	3:D:164:GLN:H	2.19	0.55
3:D:317:THR:HG22	3:D:322:ARG:O	2.07	0.55
3:D:805:GLN:HG2	3:D:806:ASP:N	2.21	0.55
3:D:919:ALA:HA	3:D:1252:HIS:ND1	2.21	0.55
5:F:415:ALA:HB2	5:F:434:TRP:HB2	1.89	0.55
1:G:89:ALA:HB1	1:G:210:THR:CG2	2.35	0.55
1:G:167:PRO:HB2	1:G:170:ARG:CG	2.32	0.55
1:H:88:LEU:HD12	1:H:89:ALA:N	2.21	0.55
2:I:13:LYS:HZ2	2:I:1149:TYR:HA	1.71	0.55
2:I:347:ILE:O	2:I:350:THR:HB	2.07	0.55
2:I:404:LYS:HD3	2:I:586:PHE:CZ	2.31	0.55
3:J:42:GLU:HG3	5:L:451:ARG:HG2	1.88	0.55
3:J:372:MET:O	3:J:376:LEU:HB2	2.07	0.55
3:J:378:LYS:CB	3:J:379:PRO:HD3	2.36	0.55
3:J:491:LEU:HD13	3:J:496:GLY:O	2.05	0.55
3:J:842:ARG:HD3	3:J:882:VAL:CG1	2.32	0.55
4:K:49:ILE:HG12	4:K:52:ARG:HD3	1.89	0.55
2:C:81:ASP:OD1	2:C:82:VAL:N	2.40	0.55
2:C:86:GLN:HG3	2:C:140:GLY:O	2.07	0.55
2:C:1238:LEU:HD12	2:C:1238:LEU:N	2.21	0.55
2:C:1336:ASN:ND2	3:D:29:MET:CE	2.69	0.55
3:D:205:LEU:HA	3:D:217:LEU:CD2	2.29	0.55
3:D:399:LYS:HB3	3:D:403:ARG:HH22	1.72	0.55
3:D:809:VAL:HG22	3:D:915:ILE:HD13	1.88	0.55
3:D:1234:VAL:CA	3:D:1237:VAL:HG12	2.35	0.55
3:D:1307:LEU:HD11	3:D:1311:LYS:CG	2.36	0.55
5:F:135:ALA:HA	5:F:256:PHE:CE2	2.42	0.55
5:F:354:THR:HG23	5:F:357:GLN:H	1.72	0.55
5:F:574:GLU:HB3	5:F:584:ARG:NH2	2.22	0.55
1:G:150:ARG:NH2	1:H:32:GLU:OE1	2.39	0.55
1:H:48:LEU:CD2	3:J:539:SER:HB3	2.37	0.55
1:H:175:ALA:HB1	1:H:177:TYR:CZ	2.42	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:247:ARG:HH11	2:I:247:ARG:HG3	1.71	0.55
2:I:606:LEU:HD23	2:I:611:GLU:HA	1.89	0.55
2:I:669:PRO:CB	2:I:1184:THR:HB	2.37	0.55
2:I:864:LYS:NZ	2:I:877:VAL:HG12	2.20	0.55
2:I:901:LEU:CG	2:I:905:ILE:HD11	2.37	0.55
2:I:1070:HIS:CD2	2:I:1111:GLN:HB3	2.42	0.55
2:I:1260:GLY:HA3	2:I:1265:PHE:CA	2.32	0.55
3:J:290:ILE:HD12	3:J:290:ILE:N	2.22	0.55
5:L:544:THR:OG1	5:L:545:HIS:N	2.39	0.55
1:B:95:LYS:CE	1:B:98:VAL:HG23	2.37	0.54
2:C:1314:GLN:HG2	4:E:28:ARG:NH1	2.22	0.54
3:D:425:ARG:NH1	3:D:459:ALA:HA	2.21	0.54
3:D:450:HIS:CE1	3:D:452:LEU:HD12	2.42	0.54
3:D:653:ILE:HA	3:D:656:GLU:CD	2.27	0.54
3:D:1313:SER:C	3:D:1315:ALA:H	2.10	0.54
5:F:562:ARG:NH2	5:F:573:LEU:HB3	2.21	0.54
5:F:565:ILE:O	5:F:567:MET:HG3	2.07	0.54
1:G:23:HIS:CE1	1:G:204:GLU:HG3	2.41	0.54
1:G:77:ASP:O	1:G:80:GLU:N	2.40	0.54
2:I:878:THR:HB	2:I:925:SER:OG	2.07	0.54
2:I:1100:PRO:O	2:I:1101:LEU:HD23	2.06	0.54
2:I:1119:MET:HG3	2:I:1204:LEU:HD13	1.88	0.54
3:J:60:ARG:HA	3:J:89:GLY:O	2.08	0.54
3:J:75:TYR:N	3:J:75:TYR:CD1	2.75	0.54
3:J:268:LEU:HB3	3:J:306:LEU:CD2	2.36	0.54
3:J:1191:PRO:C	3:J:1193:TRP:H	2.08	0.54
1:A:91:ARG:HH21	1:A:122:GLU:CD	2.11	0.54
1:A:184:ALA:HB2	2:C:1091:GLY:CA	2.36	0.54
1:B:59:VAL:CG2	1:B:144:ILE:HD11	2.37	0.54
1:B:289:LEU:HD23	1:B:295:LEU:CD1	2.37	0.54
2:C:697:LYS:HA	2:C:795:ALA:CB	2.34	0.54
2:C:720:ARG:NH2	2:C:741:MET:HA	2.22	0.54
2:C:803:ALA:HB1	2:C:1227:VAL:HG12	1.88	0.54
2:C:936:ARG:NH2	2:C:1046:VAL:O	2.40	0.54
2:C:1075:VAL:HG23	3:D:461:PHE:O	2.07	0.54
3:D:222:LYS:HE2	3:D:1273:ASP:OD2	2.07	0.54
3:D:516:ASP:HA	3:D:545:HIS:CB	2.37	0.54
3:D:670:SER:HB2	3:D:672:LEU:HD11	1.86	0.54
3:D:1356:LEU:HD23	3:D:1357:ILE:N	2.21	0.54
5:F:492:ASP:O	5:F:496:LYS:N	2.25	0.54
1:G:191:ARG:HH22	1:G:197:ASP:CA	2.13	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:195:ARG:HG2	1:G:198:LEU:CD1	2.37	0.54
1:H:134:THR:HG23	1:H:135:ASP:N	2.22	0.54
2:I:303:ASP:O	2:I:307:GLY:N	2.40	0.54
2:I:384:LEU:HG	2:I:385:PHE:N	2.21	0.54
2:I:895:LEU:HD11	2:I:900:LYS:HG3	1.88	0.54
3:J:132:LEU:O	3:J:135:ILE:N	2.39	0.54
3:J:142:GLU:OE2	5:L:100:MET:HG2	2.07	0.54
3:J:652:GLU:O	3:J:656:GLU:HG3	2.06	0.54
3:J:769:VAL:HB	3:J:770:LEU:HD13	1.90	0.54
3:J:847:ASP:CB	3:J:860:ARG:H	2.20	0.54
5:L:448:ARG:HG2	5:L:448:ARG:NH1	2.19	0.54
5:L:474:MET:O	5:L:476:ARG:N	2.40	0.54
1:B:282:VAL:HG21	1:B:316:MET:CE	2.37	0.54
2:C:201:ARG:NH1	2:C:201:ARG:CG	2.67	0.54
2:C:204:LEU:HD12	2:C:369:MET:HE3	1.90	0.54
2:C:871:VAL:HG22	2:C:872:TYR:N	2.23	0.54
2:C:919:ARG:O	2:C:921:PRO:HD3	2.07	0.54
2:C:1333:LEU:HD22	3:D:307:LEU:HD22	1.89	0.54
3:D:115:TRP:NE1	3:D:1329:THR:HG23	2.22	0.54
3:D:916:GLY:O	3:D:919:ALA:HB3	2.06	0.54
3:D:1372:ARG:HE	3:J:854:ALA:HB2	1.72	0.54
3:D:1375:ALA:HB1	3:J:853:THR:CB	2.38	0.54
4:E:58:LEU:O	4:E:59:ILE:HD13	2.06	0.54
5:F:394:TYR:HB2	5:F:404:LEU:HD22	1.90	0.54
5:F:585:GLU:HA	5:F:588:ARG:CG	2.33	0.54
1:G:8:PHE:O	1:G:9:LEU:HB2	2.05	0.54
1:G:15:ASP:OD2	1:G:17:GLU:HB2	2.08	0.54
2:I:90:VAL:HG12	2:I:91:THR:H	1.72	0.54
2:I:175:ARG:NH2	2:I:185:ASP:OD2	2.41	0.54
2:I:555:TYR:OH	2:I:654:ASP:OD1	2.18	0.54
3:J:247:PRO:O	3:J:249:LEU:N	2.41	0.54
3:J:368:LEU:HD21	3:J:373:ALA:HB2	1.89	0.54
3:J:903:LEU:CD2	3:J:909:ILE:HD12	2.37	0.54
3:J:1163:VAL:HG22	3:J:1164:SER:H	1.72	0.54
3:J:1316:THR:CG2	3:J:1318:SER:HB3	2.37	0.54
5:L:266:PHE:O	5:L:270:VAL:HG23	2.07	0.54
1:B:62:ASP:HB3	1:B:142:MET:SD	2.48	0.54
1:B:82:LEU:HD23	1:B:85:LEU:HD12	1.90	0.54
1:B:136:GLU:CG	1:B:137:ASN:N	2.68	0.54
2:C:197:ARG:HD2	2:C:200:ARG:HA	1.90	0.54
2:C:197:ARG:HD3	2:C:201:ARG:O	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:617:ALA:CB	2:C:653:MET:HB2	2.36	0.54
2:C:700:VAL:HG13	2:C:1117:LEU:CD2	2.37	0.54
2:C:841:ARG:HG3	2:C:841:ARG:NH1	2.23	0.54
2:C:1066:MET:CE	2:C:1076:ILE:CG2	2.86	0.54
2:C:1191:LYS:O	2:C:1195:ILE:HG13	2.07	0.54
3:D:160:LEU:CD1	3:D:165:TYR:HA	2.37	0.54
3:D:473:THR:HG23	3:D:476:ALA:HB2	1.87	0.54
3:D:795:TYR:C	3:D:795:TYR:CD2	2.81	0.54
1:G:224:LEU:HD23	1:G:224:LEU:C	2.26	0.54
2:I:729:ALA:O	2:I:755:LYS:NZ	2.40	0.54
2:I:745:GLU:CA	2:I:1017:GLN:HG3	2.36	0.54
2:I:1075:VAL:CG2	3:J:463:GLY:CA	2.85	0.54
2:I:1296:ASP:HB2	3:J:345:LYS:HD3	1.89	0.54
3:J:72:CYS:SG	3:J:73:GLY:N	2.81	0.54
3:J:91:GLU:OE1	3:J:93:THR:OG1	2.25	0.54
3:J:111:THR:OG1	3:J:299:LEU:HD23	2.07	0.54
3:J:385:LEU:HD21	3:J:411:ILE:CG1	2.30	0.54
3:J:425:ARG:HH12	3:J:464:ASP:CB	2.20	0.54
5:L:98:VAL:CB	5:L:402:LEU:HD21	2.35	0.54
5:L:119:ILE:CA	5:L:122:ARG:HG3	2.36	0.54
5:L:124:GLU:O	5:L:127:ILE:HB	2.07	0.54
5:L:287:ILE:CG2	5:L:315:TRP:CH2	2.90	0.54
2:C:397:LEU:HB3	2:C:401:GLY:HA3	1.89	0.54
2:C:488:MET:N	2:C:491:ASP:OD2	2.34	0.54
2:C:738:GLU:HA	2:C:741:MET:HE2	1.90	0.54
2:C:817:LEU:HD22	2:C:817:LEU:C	2.27	0.54
2:C:890:LYS:NZ	2:C:891:GLY:O	2.36	0.54
2:C:1111:GLN:HB2	2:C:1230:MET:HE1	1.89	0.54
3:D:357:VAL:N	3:D:461:PHE:CE1	2.75	0.54
3:D:781:LYS:O	3:D:784:ALA:HB3	2.07	0.54
5:F:124:GLU:HA	5:F:127:ILE:CG1	2.38	0.54
5:F:290:LEU:O	5:F:294:GLN:HB3	2.07	0.54
5:F:548:LEU:N	5:F:548:LEU:HD23	2.17	0.54
1:G:41:ASN:HD22	1:H:41:ASN:ND2	2.04	0.54
2:I:600:THR:HG21	2:I:602:GLU:HG2	1.89	0.54
2:I:769:PRO:HA	2:I:784:ALA:CB	2.38	0.54
2:I:796:LEU:HD12	2:I:796:LEU:H	1.71	0.54
2:I:954:LYS:O	2:I:957:LYS:HB3	2.06	0.54
3:J:395:LYS:O	3:J:399:LYS:HE3	2.06	0.54
3:J:580:TRP:CH2	3:J:587:LEU:O	2.60	0.54
3:J:609:TYR:OH	3:J:906:GLY:N	2.40	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:695:LYS:HD3	3:J:695:LYS:N	2.21	0.54
2:C:377:THR:H	2:C:380:ALA:HB3	1.73	0.54
2:C:550:VAL:HG11	3:D:776:THR:CG2	2.38	0.54
2:C:600:THR:HB	2:C:602:GLU:H	1.72	0.54
2:C:735:LYS:HA	2:C:748:ILE:HG22	1.90	0.54
3:D:370:LYS:N	3:D:442:ILE:O	2.38	0.54
3:D:425:ARG:CG	3:D:426:ALA:N	2.71	0.54
3:D:428:THR:HG22	3:D:428:THR:O	2.06	0.54
3:D:435:GLN:HB2	3:D:457:TYR:OH	2.08	0.54
3:D:746:LEU:N	3:D:746:LEU:HD12	2.22	0.54
3:D:762:ASN:OD1	3:D:765:GLU:HG3	2.08	0.54
5:F:402:LEU:C	5:F:405:ILE:HG23	2.28	0.54
5:F:608:ARG:HH21	5:F:609:SER:HA	1.70	0.54
1:G:44:ARG:HA	1:G:47:LEU:HB2	1.89	0.54
1:H:211:ILE:HD12	1:H:212:ASP:H	1.71	0.54
2:I:12:ARG:HA	2:I:1181:PRO:HB2	1.89	0.54
2:I:510:GLN:O	2:I:511:LEU:HD23	2.07	0.54
2:I:517:GLN:O	2:I:517:GLN:CG	2.56	0.54
2:I:519:ASN:HD22	2:I:689:ALA:HB3	1.69	0.54
2:I:607:SER:OG	2:I:609:ILE:HG13	2.07	0.54
2:I:835:GLU:C	2:I:836:LEU:HD12	2.27	0.54
2:I:1332:SER:O	3:J:243:PRO:HG2	2.07	0.54
3:J:44:ILE:HA	3:J:50:LYS:O	2.07	0.54
3:J:511:TYR:HB2	3:J:596:LEU:O	2.08	0.54
3:J:770:LEU:N	3:J:770:LEU:HD22	2.22	0.54
3:J:805:GLN:C	3:J:807:LEU:H	2.11	0.54
3:J:930:LEU:HB2	3:J:1138:LEU:HB2	1.89	0.54
3:J:1241:TYR:HD2	3:J:1246:VAL:CG1	2.21	0.54
5:L:485:GLU:O	5:L:487:MET:N	2.40	0.54
1:A:45:ARG:HG3	1:A:46:ILE:CD1	2.37	0.54
1:B:284:ARG:HG3	1:B:288:GLU:HG3	1.89	0.54
2:C:74:ARG:HH12	2:C:121:GLU:CD	2.11	0.54
2:C:538:LEU:HD12	2:C:538:LEU:H	1.69	0.54
2:C:582:ASN:CB	2:C:586:PHE:H	2.21	0.54
2:C:706:ARG:HG2	2:C:706:ARG:HH11	1.73	0.54
2:C:1185:PRO:HD2	2:C:1189:GLY:HA2	1.90	0.54
3:D:125:GLY:O	3:D:128:LEU:N	2.40	0.54
3:D:134:ASP:O	3:D:137:ARG:HB3	2.08	0.54
3:D:139:LEU:HD21	3:D:182:ALA:HA	1.90	0.54
3:D:215:LYS:O	3:D:219:LYS:HB3	2.07	0.54
3:D:1186:TYR:HE2	3:D:1188:GLU:HB2	1.72	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1282:TYR:CB	3:D:1286:LYS:HE3	2.37	0.54
5:F:448:ARG:HD3	5:F:450:ILE:O	2.08	0.54
5:F:460:ILE:HG22	5:F:461:ASN:N	2.22	0.54
1:G:96:ASP:OD2	1:G:148:ARG:NH2	2.37	0.54
1:G:167:PRO:CG	1:G:170:ARG:HD2	2.34	0.54
2:I:5:TYR:HA	2:I:8:LYS:CD	2.36	0.54
2:I:157:PHE:CZ	2:I:431:LYS:HG2	2.43	0.54
2:I:600:THR:HG22	2:I:602:GLU:H	1.72	0.54
2:I:670:PHE:CD2	2:I:1113:LEU:HB3	2.43	0.54
2:I:864:LYS:HZ2	2:I:877:VAL:HG12	1.72	0.54
2:I:1222:GLU:HG3	3:J:634:ARG:O	2.08	0.54
2:I:1287:LEU:O	2:I:1290:MET:HB3	2.08	0.54
2:I:1294:LYS:HD3	3:J:472:LEU:HD11	1.90	0.54
3:J:215:LYS:HE2	3:J:216:LYS:HG3	1.90	0.54
3:J:471:PRO:HB3	3:J:476:ALA:HB1	1.89	0.54
3:J:857:LEU:CD1	3:J:858:VAL:H	2.16	0.54
3:J:1154:ALA:HA	3:J:1211:SER:OG	2.07	0.54
4:K:50:ALA:O	4:K:54:ILE:HG12	2.06	0.54
5:L:412:LEU:CA	5:L:435:ILE:HD11	2.38	0.54
2:C:86:GLN:HA	2:C:140:GLY:HA2	1.87	0.54
2:C:237:LEU:HB3	2:C:287:VAL:O	2.07	0.54
2:C:698:PRO:HB3	2:C:1231:TYR:CG	2.43	0.54
3:D:120:LEU:O	3:D:122:SER:N	2.40	0.54
3:D:288:PRO:HG3	5:F:380:VAL:CG1	2.25	0.54
3:D:478:LEU:HB3	4:E:20:VAL:HG13	1.88	0.54
2:I:396:ASP:HA	2:I:418:GLY:O	2.08	0.54
2:I:614:TYR:CD1	2:I:652:TYR:HE1	2.26	0.54
2:I:836:LEU:HD12	2:I:836:LEU:N	2.23	0.54
2:I:964:LEU:HB2	2:I:1025:PHE:CD2	2.43	0.54
5:L:502:LYS:HB3	5:L:504:PRO:HB3	1.90	0.54
1:A:171:LEU:HD22	1:A:171:LEU:N	2.23	0.54
1:B:89:ALA:HB3	1:B:124:VAL:H	1.72	0.54
1:B:97:GLU:HB3	1:B:145:LYS:HE3	1.89	0.54
2:C:208:ILE:HG23	2:C:362:ALA:CB	2.37	0.54
2:C:370:MET:O	2:C:372:PRO:HD3	2.08	0.54
2:C:524:ILE:HD11	2:C:712:SER:N	2.22	0.54
2:C:783:LEU:O	2:C:784:ALA:HB2	2.08	0.54
2:C:818:VAL:CG2	2:C:1096:ILE:HG12	2.37	0.54
3:D:253:VAL:HG21	5:F:523:ILE:HD13	1.89	0.54
3:D:527:LEU:HD21	3:D:536:LEU:CD2	2.36	0.54
3:D:562:GLU:OE1	3:D:563:LEU:N	2.34	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:88:LEU:HD12	1:G:89:ALA:N	2.20	0.54
1:G:190:ALA:HB2	1:G:200:LYS:HE3	1.88	0.54
2:I:70:TYR:OH	2:I:72:SER:HA	2.08	0.54
2:I:596:ASP:OD2	2:I:597:GLY:N	2.39	0.54
2:I:1212:LEU:HD22	2:I:1225:VAL:HG22	1.90	0.54
2:I:1304:MET:O	2:I:1307:ASN:N	2.40	0.54
3:J:271:ARG:O	3:J:274:ASN:HB2	2.08	0.54
3:J:378:LYS:O	3:J:381:ILE:HB	2.07	0.54
3:J:527:LEU:HD23	3:J:532:GLU:OE2	2.07	0.54
3:J:608:CYS:SG	3:J:617:THR:HG23	2.47	0.54
3:J:825:VAL:HG22	3:J:832:LYS:N	2.23	0.54
5:L:141:ILE:N	5:L:141:ILE:HD12	2.23	0.54
1:A:178:SER:OG	1:A:180:VAL:HG23	2.08	0.54
1:B:178:SER:O	1:B:178:SER:OG	2.25	0.54
2:C:548:ARG:HH11	2:C:548:ARG:HG3	1.73	0.54
2:C:903:ARG:NH2	2:C:910:ALA:HB2	2.22	0.54
2:C:934:PHE:N	2:C:934:PHE:HD2	2.05	0.54
2:C:1128:ILE:O	2:C:1131:MET:N	2.41	0.54
2:C:1268:GLN:NE2	3:D:352:ARG:CD	2.66	0.54
3:D:418:GLU:O	3:D:420:PRO:HD3	2.08	0.54
3:D:664:ILE:HA	3:D:667:GLN:OE1	2.08	0.54
3:D:806:ASP:HA	3:D:1347:LEU:HD12	1.90	0.54
3:D:848:VAL:CG1	3:D:857:LEU:HB2	2.37	0.54
5:F:240:ARG:CD	5:F:244:THR:HB	2.29	0.54
1:G:41:ASN:HA	1:G:185:TYR:CE1	2.43	0.54
2:I:47:TYR:HD2	2:I:461:GLU:OE2	1.91	0.54
2:I:74:ARG:CZ	2:I:97:ARG:HG3	2.38	0.54
2:I:125:GLY:HA2	2:I:499:SER:HB2	1.90	0.54
2:I:213:LEU:HD11	2:I:425:ILE:HD12	1.90	0.54
2:I:637:ARG:HA	2:I:642:SER:HA	1.89	0.54
2:I:1281:TYR:N	2:I:1281:TYR:CD2	2.75	0.54
2:I:1294:LYS:O	3:J:348:ASP:HB2	2.08	0.54
2:I:1339:LEU:HD12	2:I:1339:LEU:N	2.23	0.54
3:J:527:LEU:N	3:J:550:VAL:HG12	2.18	0.54
3:J:657:ALA:O	3:J:660:GLU:HB2	2.07	0.54
3:J:707:ILE:O	3:J:714:GLU:N	2.28	0.54
3:J:1170:LYS:C	3:J:1172:LYS:N	2.61	0.54
3:J:1239:ASP:O	3:J:1243:LEU:CB	2.49	0.54
5:L:128:ASN:O	5:L:131:GLN:N	2.41	0.54
2:C:4:SER:HB3	2:C:7:GLU:CG	2.38	0.53
2:C:189:ASP:HB3	2:C:195:PHE:HE2	1.72	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:227:LYS:HZ3	2:C:298:ALA:HB1	1.71	0.53
2:C:347:ILE:HG22	2:C:348:SER:N	2.23	0.53
2:C:490:GLN:CG	5:F:472:GLN:HB3	2.38	0.53
2:C:745:GLU:CD	2:C:1017:GLN:HB3	2.29	0.53
2:C:1214:ASP:OD1	2:C:1215:GLY:N	2.41	0.53
2:C:1243:MET:SD	3:D:445:LYS:HB3	2.48	0.53
2:C:1284:ALA:HB3	3:D:479:GLU:OE1	2.07	0.53
3:D:264:ASP:OD2	5:F:506:SER:HB2	2.08	0.53
3:D:810:THR:HG23	3:D:894:VAL:H	1.72	0.53
3:D:1233:ILE:O	3:D:1237:VAL:HG12	2.09	0.53
5:F:297:MET:CE	5:F:330:LEU:HD11	2.38	0.53
5:F:545:HIS:ND1	5:F:545:HIS:C	2.61	0.53
1:G:16:ILE:HG12	1:G:26:VAL:HG23	1.89	0.53
1:G:50:SER:OG	1:H:35:PHE:HZ	1.91	0.53
1:G:221:ALA:O	1:G:224:LEU:HB3	2.08	0.53
1:H:136:GLU:CG	1:H:137:ASN:H	2.19	0.53
2:I:545:PHE:O	2:I:548:ARG:N	2.28	0.53
2:I:944:ARG:O	2:I:948:ILE:HD12	2.07	0.53
2:I:1117:LEU:HD23	2:I:1118:GLY:N	2.23	0.53
3:J:42:GLU:HG2	5:L:451:ARG:CZ	2.37	0.53
3:J:362:ARG:H	3:J:365:GLN:HE21	1.56	0.53
3:J:674:THR:HG23	3:J:677:GLU:HB2	1.90	0.53
3:J:708:ASN:HA	3:J:712:GLN:O	2.09	0.53
3:J:1328:THR:O	3:J:1332:LEU:HD23	2.08	0.53
5:L:128:ASN:O	5:L:131:GLN:HB2	2.09	0.53
1:A:13:LEU:HD11	1:A:16:ILE:HD11	1.88	0.53
1:B:156:SER:O	1:B:156:SER:OG	2.24	0.53
2:C:98:VAL:C	2:C:121:GLU:HA	2.28	0.53
2:C:245:ARG:HH11	2:C:245:ARG:HG3	1.74	0.53
2:C:421:SER:O	2:C:424:ASP:N	2.42	0.53
2:C:569:ILE:HG22	2:C:570:GLY:H	1.72	0.53
2:C:817:LEU:HD13	2:C:1097:VAL:HB	1.86	0.53
2:C:979:LEU:HD23	2:C:1000:LEU:HD12	1.91	0.53
3:D:218:THR:HA	3:D:221:ILE:HG22	1.89	0.53
3:D:262:THR:OG1	3:D:263:SER:N	2.42	0.53
3:D:1360:GLY:CA	4:E:17:PHE:CE2	2.90	0.53
5:F:273:MET:O	5:F:277:MET:N	2.40	0.53
5:F:573:LEU:HD13	5:F:573:LEU:N	2.23	0.53
2:I:489:PRO:O	2:I:490:GLN:CB	2.55	0.53
2:I:617:ALA:HB3	2:I:653:MET:CG	2.38	0.53
2:I:685:MET:HE1	2:I:1071:GLY:HA2	1.89	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:897:PRO:HB2	5:L:565:ILE:HB	1.89	0.53
3:J:882:VAL:HG12	3:J:883:ARG:N	2.23	0.53
5:L:213:ASP:HB2	5:L:216:LEU:HB3	1.90	0.53
5:L:230:VAL:O	5:L:234:THR:HG23	2.08	0.53
5:L:561:MET:HG2	5:L:571:TYR:CB	2.37	0.53
1:A:25:LYS:HG2	1:A:204:GLU:HG3	1.89	0.53
1:B:11:PRO:O	1:B:12:ARG:HB2	2.08	0.53
1:B:105:SER:OG	1:B:139:SER:HA	2.07	0.53
2:C:81:ASP:N	2:C:84:GLU:HG3	2.22	0.53
2:C:106:GLU:OE1	2:C:114:VAL:HG22	2.09	0.53
2:C:593:LYS:HB3	2:C:602:GLU:HG2	1.87	0.53
2:C:883:LEU:HD13	2:C:1052:VAL:HG11	1.91	0.53
2:C:1308:ILE:HD12	3:D:380:PHE:CE2	2.43	0.53
3:D:588:PRO:HB2	3:D:590:SER:HG	1.71	0.53
3:D:1163:VAL:HG22	3:D:1164:SER:N	2.23	0.53
3:D:1252:HIS:CA	3:D:1255:VAL:HG13	2.37	0.53
2:I:389:PHE:CD1	2:I:395:TYR:CE1	2.97	0.53
2:I:618:GLN:O	2:I:621:SER:OG	2.22	0.53
3:J:27:PRO:HB3	3:J:241:VAL:HG23	1.90	0.53
3:J:31:ARG:CZ	3:J:241:VAL:HG21	2.39	0.53
3:J:144:TYR:CE1	3:J:165:TYR:CE1	2.97	0.53
3:J:357:VAL:CG1	3:J:359:PRO:HD3	2.38	0.53
3:J:930:LEU:HD12	3:J:1138:LEU:HD13	1.89	0.53
3:J:1157:ALA:HB3	3:J:1206:ARG:CA	2.33	0.53
3:J:1241:TYR:N	3:J:1241:TYR:CD1	2.76	0.53
3:J:1280:VAL:HG11	3:J:1304:ARG:CZ	2.38	0.53
3:J:1309:ILE:O	3:J:1312:ALA:HB3	2.07	0.53
3:J:1319:PHE:C	3:J:1319:PHE:HD1	2.11	0.53
5:L:227:GLN:HG2	5:L:255:VAL:CG2	2.37	0.53
2:C:143:ARG:HH21	2:C:512:SER:C	2.11	0.53
2:C:766:ASN:OD1	2:C:767:GLN:N	2.41	0.53
2:C:879:GLY:N	2:C:925:SER:OG	2.42	0.53
3:D:295:GLU:OE1	5:F:406:GLN:HG2	2.07	0.53
3:D:795:TYR:CE2	3:D:799:ARG:HD3	2.39	0.53
3:D:915:ILE:CA	3:D:918:ILE:HG23	2.39	0.53
3:D:1149:ARG:CZ	3:D:1153:PRO:CG	2.86	0.53
3:D:1234:VAL:CG2	3:D:1235:ASN:N	2.70	0.53
3:D:1372:ARG:CZ	3:J:854:ALA:HB3	2.37	0.53
5:F:231:THR:CG2	5:F:249:ILE:HA	2.39	0.53
5:F:248:GLU:HG2	5:F:251:LYS:HD2	1.90	0.53
5:F:490:PRO:HG2	5:F:493:LYS:HB2	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:75:GLN:HA	2:I:729:ALA:N	2.24	0.53
2:I:115:LYS:HE2	2:I:116:ASP:OD1	2.08	0.53
2:I:497:PRO:O	2:I:500:ALA:HB3	2.08	0.53
2:I:669:PRO:HB3	2:I:702:THR:CG2	2.39	0.53
2:I:685:MET:HE2	2:I:1071:GLY:HA2	1.88	0.53
2:I:732:ILE:HD11	2:I:769:PRO:HA	1.91	0.53
2:I:870:ILE:CG2	2:I:944:ARG:HD3	2.38	0.53
2:I:1024:GLU:HA	2:I:1027:LYS:CD	2.37	0.53
3:J:71:LEU:HB2	3:J:90:VAL:HG21	1.88	0.53
3:J:263:SER:CA	5:L:507:MET:HE2	2.38	0.53
3:J:291:ILE:O	3:J:294:ASN:N	2.40	0.53
3:J:396:ALA:O	3:J:399:LYS:N	2.41	0.53
3:J:475:GLU:OE1	3:J:475:GLU:N	2.36	0.53
3:J:1310:THR:HG23	3:J:1311:LYS:N	2.24	0.53
3:J:1352:ILE:N	3:J:1352:ILE:CD1	2.71	0.53
5:L:225:ARG:O	5:L:229:VAL:HG13	2.08	0.53
5:L:270:VAL:HG12	5:L:274:ARG:CZ	2.38	0.53
5:L:414:LYS:HZ1	5:L:434:TRP:HZ3	1.55	0.53
1:A:61:ILE:HD11	1:A:142:MET:HE2	1.89	0.53
1:A:158:ARG:NH2	1:A:173:VAL:O	2.35	0.53
1:A:187:VAL:CG1	1:A:201:LEU:HD13	2.29	0.53
1:B:12:ARG:O	1:B:13:LEU:HB3	2.08	0.53
1:B:62:ASP:HB3	1:B:142:MET:HE2	1.90	0.53
1:B:282:VAL:HG23	1:B:314:LEU:HA	1.90	0.53
2:C:20:GLN:HG3	2:C:20:GLN:O	2.07	0.53
2:C:81:ASP:O	2:C:84:GLU:HG3	2.08	0.53
2:C:139:ASN:HD21	2:C:503:LYS:NZ	2.05	0.53
2:C:142:GLU:N	2:C:760:ASN:HD21	2.05	0.53
2:C:358:ASP:CG	2:C:361:SER:HB2	2.29	0.53
2:C:882:ILE:H	2:C:882:ILE:CD1	2.02	0.53
2:C:1120:ALA:HB1	2:C:1198:LEU:HD12	1.90	0.53
2:C:1142:ARG:NH1	2:C:1169:VAL:HG21	2.24	0.53
2:C:1200:LYS:O	2:C:1203:ASP:N	2.34	0.53
3:D:22:ILE:HD11	3:D:1336:ALA:HB2	1.91	0.53
3:D:418:GLU:O	3:D:481:ARG:NH2	2.42	0.53
3:D:514:THR:OG1	3:D:596:LEU:HD23	2.09	0.53
3:D:589:TYR:O	3:D:591:ILE:N	2.42	0.53
3:D:706:VAL:CG1	3:D:715:LYS:HB3	2.26	0.53
3:D:1309:ILE:O	3:D:1312:ALA:N	2.40	0.53
4:E:19:LEU:HD12	4:E:19:LEU:C	2.28	0.53
5:F:246:GLN:O	5:F:250:LEU:HG	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:44:ARG:HG3	1:H:183:ILE:HD13	1.91	0.53
2:I:149:LEU:HD11	2:I:451:ARG:HB3	1.89	0.53
2:I:490:GLN:HG2	2:I:490:GLN:O	2.08	0.53
2:I:1116:HIS:HE1	3:J:641:ILE:HB	1.71	0.53
2:I:1132:LEU:HD11	2:I:1174:GLU:OE2	2.09	0.53
3:J:148:GLU:H	3:J:156:ARG:CG	2.17	0.53
3:J:288:PRO:HG2	3:J:291:ILE:CD1	2.39	0.53
3:J:1226:VAL:O	3:J:1230:THR:HG22	2.08	0.53
3:J:1316:THR:HG21	3:J:1318:SER:HB3	1.91	0.53
4:K:3:ARG:HA	4:K:3:ARG:HE	1.73	0.53
5:L:508:GLU:HA	5:L:508:GLU:OE2	2.09	0.53
1:A:234:LEU:HD12	1:B:218:ARG:NH1	2.22	0.53
1:B:99:ILE:HG13	1:B:144:ILE:O	2.08	0.53
1:B:201:LEU:HG	1:B:203:ILE:CD1	2.39	0.53
1:B:255:ARG:NH1	1:B:255:ARG:HG2	2.23	0.53
2:C:17:LYS:N	2:C:1188:ASP:OD2	2.42	0.53
2:C:127:ILE:HG22	2:C:502:VAL:HG21	1.90	0.53
2:C:236:LYS:HB3	2:C:237:LEU:HD23	1.91	0.53
2:C:462:ASN:O	2:C:466:VAL:HG23	2.09	0.53
2:C:465:ARG:O	2:C:468:LEU:N	2.41	0.53
2:C:524:ILE:HD12	2:C:712:SER:CB	2.38	0.53
2:C:896:THR:HB	2:C:897:PRO:HD2	1.90	0.53
2:C:1006:GLU:H	2:C:1006:GLU:CD	2.12	0.53
2:C:1061:GLN:HB2	2:C:1062:PRO:HD2	1.91	0.53
2:C:1172:LEU:O	2:C:1176:LEU:HG	2.09	0.53
2:C:1210:ILE:HG22	2:C:1211:ARG:N	2.22	0.53
2:C:1338:GLU:OE2	3:D:21:LYS:HE3	2.09	0.53
3:D:647:PRO:HG3	3:D:697:MET:CA	2.38	0.53
5:F:115:GLY:O	5:F:119:ILE:HG12	2.08	0.53
5:F:495:ARG:HA	5:F:498:LEU:CD2	2.25	0.53
1:G:60:GLU:CG	1:G:143:ARG:HH21	2.21	0.53
1:G:134:THR:CG2	2:I:726:TYR:CE1	2.91	0.53
2:I:17:LYS:O	2:I:17:LYS:HD3	2.08	0.53
2:I:901:LEU:HG	2:I:905:ILE:CD1	2.36	0.53
2:I:1298:VAL:HG13	2:I:1299:ASN:N	2.23	0.53
3:J:308:ASP:CG	3:J:311:ARG:HE	2.09	0.53
3:J:356:THR:HG23	3:J:446:ALA:HB1	1.89	0.53
3:J:400:MET:O	3:J:405:GLU:HG3	2.09	0.53
3:J:572:THR:HG23	3:J:573:THR:O	2.09	0.53
3:J:611:ILE:HB	3:J:612:LEU:HD12	1.91	0.53
2:C:629:PHE:CE2	2:C:634:VAL:HG11	2.43	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:839:VAL:HG12	2:C:1049:ILE:CG1	2.24	0.53
2:C:1131:MET:HE1	2:C:1141:LEU:HA	1.91	0.53
2:C:1254:VAL:HG13	2:C:1255:THR:H	1.72	0.53
2:C:1287:LEU:HD23	2:C:1288:GLN:CA	2.39	0.53
2:C:1305:TYR:CD2	5:F:531:PRO:CB	2.92	0.53
3:D:152:THR:HB	3:D:172:PHE:CD1	2.43	0.53
3:D:473:THR:HG23	3:D:476:ALA:H	1.73	0.53
3:D:521:LYS:NZ	3:D:540:GLY:O	2.36	0.53
3:D:820:ILE:N	3:D:882:VAL:O	2.42	0.53
3:D:843:VAL:O	3:D:883:ARG:HB2	2.09	0.53
3:D:1209:VAL:C	3:D:1210:ILE:HD13	2.29	0.53
3:D:1218:HIS:H	3:D:1218:HIS:CD2	2.24	0.53
5:F:281:ARG:CZ	5:F:281:ARG:CB	2.87	0.53
5:F:577:GLY:C	5:F:579:GLN:H	2.10	0.53
2:I:148:GLN:NE2	2:I:533:LEU:O	2.42	0.53
2:I:161:LYS:H	2:I:161:LYS:HZ3	1.54	0.53
2:I:237:LEU:O	2:I:238:GLN:HG3	2.09	0.53
2:I:445:ILE:HG22	2:I:446:ASP:N	2.24	0.53
2:I:529:ARG:HG2	2:I:530:ILE:H	1.74	0.53
2:I:732:ILE:CD1	2:I:784:ALA:HB2	2.38	0.53
2:I:798:GLN:HG3	2:I:828:PHE:CE1	2.44	0.53
2:I:810:TYR:HE1	2:I:1078:LYS:NZ	1.97	0.53
2:I:1033:ARG:HG2	2:I:1033:ARG:HH11	1.74	0.53
2:I:1281:TYR:HE2	3:J:431:ARG:HB2	1.73	0.53
3:J:307:LEU:HD23	3:J:307:LEU:N	2.23	0.53
3:J:479:GLU:OE1	3:J:1361:THR:OG1	2.19	0.53
3:J:548:VAL:HG12	3:J:549:LYS:O	2.08	0.53
3:J:723:TYR:CE1	3:J:727:ASP:HB2	2.43	0.53
3:J:923:ILE:O	3:J:926:PRO:HD2	2.08	0.53
3:J:1156:LEU:CA	3:J:1210:ILE:HG12	2.38	0.53
1:A:44:ARG:HE	1:A:183:ILE:HG22	1.74	0.53
1:A:191:ARG:HH12	1:A:197:ASP:HA	1.74	0.53
2:C:230:PHE:CE2	2:C:292:ILE:HD11	2.44	0.53
2:C:736:VAL:HG23	2:C:748:ILE:HA	1.90	0.53
2:C:1108:ASN:C	2:C:1110:GLY:H	2.12	0.53
2:C:1183:ALA:O	2:C:1185:PRO:HD3	2.09	0.53
2:C:1285:TYR:O	2:C:1288:GLN:N	2.42	0.53
3:D:270:ARG:CZ	5:F:449:THR:HG23	2.39	0.53
3:D:491:LEU:CB	3:D:904:ALA:HA	2.38	0.53
3:D:1199:PHE:CD1	3:D:1199:PHE:N	2.77	0.53
2:I:1284:ALA:CB	3:J:1361:THR:HB	2.24	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:263:SER:HB2	5:L:507:MET:HE1	1.91	0.53
3:J:423:LEU:HG	3:J:466:MET:HE2	1.90	0.53
3:J:576:ARG:HD3	3:J:594:GLN:O	2.07	0.53
3:J:798:ARG:NH1	3:J:798:ARG:HG2	2.24	0.53
3:J:1163:VAL:HG23	3:J:1175:LEU:HD21	1.91	0.53
3:J:1170:LYS:HD3	3:J:1189:MET:SD	2.49	0.53
3:J:1343:GLU:HB3	3:J:1373:ARG:HH12	1.74	0.53
5:L:448:ARG:HH21	5:L:501:ALA:HA	1.74	0.53
5:L:483:LEU:O	5:L:486:ARG:N	2.42	0.53
1:A:9:LEU:HD23	1:A:9:LEU:N	2.22	0.53
2:C:390:PHE:C	2:C:419:ILE:HG21	2.29	0.53
2:C:725:GLN:OE1	2:C:735:LYS:NZ	2.36	0.53
2:C:745:GLU:CB	2:C:1017:GLN:CB	2.87	0.53
2:C:811:ASN:ND2	2:C:1099:ASN:N	2.57	0.53
2:C:1323:PHE:O	2:C:1326:LEU:N	2.42	0.53
2:C:1328:LYS:HE2	3:D:102:MET:HG3	1.90	0.53
3:D:215:LYS:HD2	3:D:219:LYS:NZ	2.24	0.53
3:D:517:CYS:N	3:D:545:HIS:HB2	2.24	0.53
3:D:674:THR:OG1	3:D:675:ALA:N	2.39	0.53
3:D:848:VAL:N	3:D:858:VAL:O	2.35	0.53
3:D:853:THR:O	3:D:854:ALA:HB3	2.09	0.53
5:F:130:VAL:HA	5:F:133:SER:CB	2.39	0.53
5:F:410:ILE:HG22	5:F:411:GLY:N	2.24	0.53
2:I:9:LYS:O	2:I:1175:ASN:ND2	2.41	0.53
2:I:208:ILE:HG22	2:I:209:ILE:N	2.23	0.53
2:I:471:VAL:HG12	2:I:472:GLU:N	2.21	0.53
2:I:525:THR:HG21	2:I:687:ARG:CD	2.39	0.53
2:I:817:LEU:HD13	2:I:1097:VAL:HG21	1.90	0.53
3:J:193:ASP:O	3:J:197:GLU:HG3	2.09	0.53
3:J:341:ASN:C	3:J:342:LEU:HD23	2.28	0.53
3:J:739:GLN:HB3	3:J:763:PHE:HE2	1.74	0.53
3:J:803:VAL:CG2	3:J:1312:ALA:HB3	2.39	0.53
3:J:814:CYS:SG	3:J:815:GLY:N	2.82	0.53
3:J:847:ASP:CB	3:J:856:ILE:HD13	2.38	0.53
3:J:1280:VAL:CG1	3:J:1304:ARG:HH21	2.08	0.53
1:A:57:THR:HG22	1:A:58:GLU:N	2.23	0.53
1:A:66:HIS:C	1:A:66:HIS:ND1	2.61	0.53
1:A:86:LYS:HD3	1:A:176:CYS:SG	2.48	0.53
1:A:213:PRO:O	1:A:216:ALA:HB3	2.08	0.53
1:B:22:THR:O	1:B:206:GLU:HA	2.08	0.53
1:B:23:HIS:HD1	1:B:206:GLU:HG2	1.73	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:208:ASN:OD1	1:B:209:GLY:N	2.42	0.53
2:C:22:LEU:HD22	2:C:23:ASP:H	1.74	0.53
2:C:803:ALA:CB	2:C:1227:VAL:HG12	2.39	0.53
2:C:1023:HIS:O	2:C:1027:LYS:HG2	2.09	0.53
2:C:1160:ASP:CB	2:C:1161:LEU:CA	2.69	0.53
2:C:1285:TYR:O	2:C:1289:GLU:N	2.30	0.53
3:D:67:ASP:OD1	3:D:94:GLN:HB3	2.09	0.53
3:D:74:LYS:HB3	3:D:75:TYR:CE1	2.43	0.53
3:D:147:ILE:N	3:D:177:ASP:O	2.35	0.53
3:D:328:ALA:O	3:D:331:ILE:HG12	2.09	0.53
3:D:394:ILE:CG1	3:D:395:LYS:N	2.72	0.53
3:D:788:LEU:O	3:D:791:ALA:N	2.42	0.53
4:E:15:ASN:C	4:E:17:PHE:N	2.62	0.53
1:G:134:THR:CB	2:I:773:LEU:HD11	2.39	0.53
1:H:76:GLU:HG2	1:H:80:GLU:HG2	1.90	0.53
1:H:185:TYR:HB2	1:H:201:LEU:HD11	1.91	0.53
2:I:992:LEU:HD23	2:I:992:LEU:H	1.73	0.53
2:I:1259:LEU:HG	2:I:1260:GLY:N	2.22	0.53
3:J:185:ILE:O	3:J:188:LEU:HB2	2.09	0.53
4:K:39:VAL:CG2	4:K:40:PRO:HD2	2.30	0.53
5:L:113:ARG:O	5:L:116:GLU:HB2	2.08	0.53
5:L:137:TYR:HD2	5:L:140:ALA:HB2	1.74	0.53
5:L:448:ARG:NE	5:L:452:ILE:HD12	2.24	0.53
1:B:37:HIS:CG	2:C:1216:ARG:HD2	2.44	0.52
1:B:100:LEU:O	1:B:143:ARG:HA	2.09	0.52
2:C:143:ARG:HB3	2:C:513:GLN:O	2.09	0.52
2:C:297:VAL:HG12	2:C:315:MET:O	2.09	0.52
2:C:906:PHE:CZ	5:F:605:GLU:HB2	2.43	0.52
2:C:921:PRO:HB2	2:C:924:VAL:HG21	1.90	0.52
2:C:1330:ILE:O	2:C:1333:LEU:HB2	2.09	0.52
3:D:812:ASP:HA	3:D:911:LYS:HE3	1.91	0.52
5:F:320:ILE:HG12	5:F:330:LEU:HD12	1.91	0.52
5:F:348:GLU:HG2	5:F:355:ILE:HG12	1.89	0.52
1:G:88:LEU:CD1	1:G:128:HIS:HD2	2.20	0.52
1:H:66:HIS:HA	1:H:67:GLU:OE1	2.09	0.52
2:I:306:THR:OG1	2:I:308:GLU:HB2	2.08	0.52
2:I:463:GLN:NE2	2:I:501:ALA:O	2.42	0.52
2:I:797:GLY:O	2:I:1231:TYR:OH	2.19	0.52
2:I:810:TYR:HD2	3:J:359:PRO:HG2	1.74	0.52
2:I:869:GLY:C	2:I:870:ILE:HD12	2.30	0.52
3:J:825:VAL:HG13	3:J:833:GLU:HB3	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:62:ASP:HB2	1:A:141:SER:O	2.08	0.52
1:B:28:LEU:N	1:B:201:LEU:O	2.42	0.52
2:C:13:LYS:NZ	2:C:1148:ALA:O	2.41	0.52
2:C:98:VAL:HG21	2:C:124:MET:HE2	1.88	0.52
2:C:685:MET:SD	2:C:1073:LYS:CG	2.97	0.52
2:C:804:PHE:O	3:D:638:SER:HB2	2.10	0.52
2:C:838:CYS:SG	2:C:884:VAL:HG11	2.49	0.52
2:C:843:THR:N	2:C:846:GLY:O	2.35	0.52
2:C:845:LEU:HB2	2:C:889:PRO:HG2	1.90	0.52
2:C:934:PHE:N	2:C:934:PHE:CD2	2.76	0.52
2:C:1141:LEU:O	2:C:1144:PHE:N	2.41	0.52
3:D:31:ARG:NH2	3:D:241:VAL:HG21	2.24	0.52
3:D:512:TYR:CE1	3:D:635:SER:HB2	2.45	0.52
3:D:516:ASP:OD1	3:D:516:ASP:N	2.41	0.52
3:D:678:ARG:NH1	3:D:679:TYR:HA	2.23	0.52
3:D:797:THR:O	3:D:801:VAL:HG12	2.09	0.52
3:D:1136:GLY:HA2	3:D:1140:ARG:HG2	1.92	0.52
3:D:1184:ASP:O	3:D:1186:TYR:N	2.42	0.52
3:D:1280:VAL:HG13	3:D:1284:ARG:NE	2.24	0.52
3:D:1331:VAL:O	3:D:1335:ALA:N	2.42	0.52
5:F:545:HIS:C	5:F:545:HIS:HD1	2.12	0.52
2:I:130:MET:CB	2:I:136:PHE:HE1	2.17	0.52
2:I:193:ASN:HD21	2:I:353:VAL:HG21	1.73	0.52
2:I:193:ASN:ND2	2:I:353:VAL:HG21	2.24	0.52
2:I:216:THR:OG1	2:I:219:GLN:N	2.40	0.52
2:I:303:ASP:OD1	2:I:306:THR:HG23	2.10	0.52
2:I:402:ARG:HH12	2:I:424:ASP:CG	2.13	0.52
2:I:800:MET:HE3	2:I:1096:ILE:HD11	1.91	0.52
2:I:850:ILE:O	2:I:850:ILE:HG22	2.09	0.52
2:I:1107:MET:SD	3:J:739:GLN:NE2	2.82	0.52
3:J:294:ASN:HD22	5:L:406:GLN:CD	2.12	0.52
3:J:905:ARG:CD	4:K:16:ARG:HD2	2.40	0.52
5:L:105:MET:HG2	5:L:105:MET:O	2.09	0.52
5:L:558:VAL:HG11	5:L:590:ILE:HG21	1.91	0.52
1:A:228:LEU:HD11	1:B:224:LEU:HG	1.90	0.52
1:B:224:LEU:O	1:B:224:LEU:HD12	2.10	0.52
2:C:210:LEU:HB3	2:C:220:ILE:HD11	1.91	0.52
2:C:227:LYS:HZ2	2:C:298:ALA:HB1	1.73	0.52
2:C:366:ILE:O	2:C:370:MET:N	2.31	0.52
2:C:531:SER:C	2:C:533:LEU:H	2.13	0.52
2:C:660:VAL:HG22	2:C:661:VAL:HG12	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:870:ILE:HG21	2:C:944:ARG:HD3	1.86	0.52
2:C:1009:ASN:HA	2:C:1012:GLU:HB2	1.92	0.52
3:D:215:LYS:O	3:D:219:LYS:CB	2.56	0.52
3:D:303:VAL:O	3:D:306:LEU:N	2.42	0.52
3:D:317:THR:HA	3:D:324:LEU:CG	2.38	0.52
3:D:557:LYS:HA	3:D:562:GLU:O	2.09	0.52
3:D:824:PRO:N	3:D:835:LEU:HD13	2.25	0.52
3:D:850:LYS:HG2	3:D:857:LEU:CD1	2.17	0.52
3:D:1280:VAL:HG22	3:D:1284:ARG:NE	2.20	0.52
5:F:141:ILE:HD11	5:F:256:PHE:CE1	2.44	0.52
5:F:311:THR:O	5:F:341:LEU:HB3	2.08	0.52
1:G:150:ARG:HD2	1:H:8:PHE:CZ	2.45	0.52
2:I:189:ASP:CB	2:I:190:PRO:CD	2.87	0.52
2:I:320:ASP:O	2:I:323:ALA:N	2.42	0.52
2:I:425:ILE:O	2:I:428:VAL:HB	2.09	0.52
2:I:607:SER:HG	2:I:610:GLU:HG3	1.74	0.52
2:I:745:GLU:HA	2:I:1017:GLN:HG3	1.91	0.52
2:I:1172:LEU:HD11	2:I:1176:LEU:HD11	1.91	0.52
3:J:912:GLY:HA2	3:J:1363:TYR:CD1	2.44	0.52
5:L:358:VAL:HA	5:L:361:ILE:CD1	2.40	0.52
1:A:156:SER:C	1:A:158:ARG:H	2.12	0.52
1:B:217:ILE:HA	1:B:220:ALA:HB3	1.92	0.52
2:C:5:TYR:HA	2:C:8:LYS:HG2	1.91	0.52
2:C:563:THR:HG21	2:C:569:ILE:HG22	1.91	0.52
2:C:569:ILE:C	2:C:571:LEU:H	2.03	0.52
2:C:623:LEU:N	2:C:623:LEU:HD23	2.25	0.52
2:C:897:PRO:HB3	5:F:563:PHE:O	2.07	0.52
3:D:650:LYS:HE2	3:D:654:ILE:HD11	1.91	0.52
3:D:872:LEU:CB	3:D:877:VAL:HG11	2.40	0.52
5:F:130:VAL:HA	5:F:133:SER:HB2	1.90	0.52
5:F:269:LEU:HA	5:F:272:SER:HB3	1.90	0.52
1:G:134:THR:CA	2:I:773:LEU:HD11	2.40	0.52
1:G:177:TYR:O	1:G:178:SER:HB2	2.10	0.52
1:H:47:LEU:HD13	1:H:180:VAL:CG1	2.37	0.52
1:H:65:LEU:C	1:H:171:LEU:HD11	2.29	0.52
2:I:144:VAL:HG12	2:I:145:ILE:N	2.25	0.52
2:I:297:VAL:HA	2:I:334:GLU:O	2.10	0.52
2:I:797:GLY:HA3	2:I:1233:LEU:HD13	1.91	0.52
2:I:963:GLU:O	2:I:967:LEU:HB2	2.08	0.52
2:I:1239:VAL:HG21	3:J:445:LYS:CB	2.40	0.52
3:J:97:VAL:C	3:J:99:ARG:H	2.13	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:128:LEU:HD21	3:J:189:LEU:CD2	2.37	0.52
3:J:399:LYS:HA	3:J:402:GLU:OE2	2.09	0.52
3:J:629:PHE:O	3:J:632:ALA:HB3	2.08	0.52
3:J:847:ASP:HB2	3:J:856:ILE:HD13	1.91	0.52
3:J:1290:ARG:HD3	3:J:1294:ALA:HB3	1.91	0.52
5:L:130:VAL:O	5:L:134:VAL:HG23	2.09	0.52
1:B:123:ILE:HG22	1:B:126:PRO:CD	2.34	0.52
1:B:273:GLU:CD	1:B:293:PRO:HG2	2.30	0.52
2:C:245:ARG:CZ	2:C:337:PHE:CD2	2.92	0.52
2:C:581:THR:HG22	2:C:585:GLY:HA2	1.91	0.52
2:C:1053:TYR:N	2:C:1053:TYR:CD1	2.78	0.52
2:C:1182:ILE:HG22	2:C:1183:ALA:H	1.73	0.52
2:C:1199:LEU:HD13	2:C:1205:PRO:O	2.10	0.52
3:D:123:ARG:O	3:D:127:LEU:HB3	2.08	0.52
3:D:510:LEU:O	3:D:514:THR:HG22	2.09	0.52
3:D:513:MET:HE3	3:D:579:LEU:HD22	1.90	0.52
3:D:562:GLU:OE1	3:D:562:GLU:HA	2.09	0.52
3:D:609:TYR:HB2	3:D:617:THR:CG2	2.33	0.52
3:D:706:VAL:CG1	3:D:715:LYS:HE2	2.40	0.52
5:F:274:ARG:NH1	5:F:369:GLU:OE2	2.43	0.52
1:H:112:ALA:O	1:H:115:ILE:HG13	2.10	0.52
2:I:5:TYR:CA	2:I:8:LYS:HG2	2.38	0.52
2:I:74:ARG:O	2:I:96:LEU:HD12	2.09	0.52
2:I:86:GLN:HG3	2:I:140:GLY:CA	2.40	0.52
2:I:147:SER:OG	2:I:455:SER:HB3	2.10	0.52
2:I:593:LYS:HA	2:I:652:TYR:CE2	2.45	0.52
2:I:688:GLN:O	2:I:1235:LEU:HD22	2.09	0.52
2:I:848:GLU:CD	2:I:888:THR:HG22	2.29	0.52
2:I:1119:MET:HB2	2:I:1228:GLY:CA	2.39	0.52
3:J:355:ILE:HD13	3:J:466:MET:SD	2.49	0.52
3:J:394:ILE:O	3:J:394:ILE:HD12	2.10	0.52
3:J:927:GLY:O	3:J:930:LEU:HG	2.08	0.52
1:A:41:ASN:CB	2:C:1218:GLY:HA3	2.37	0.52
1:B:97:GLU:HB3	1:B:145:LYS:CE	2.40	0.52
2:C:742:TYR:HD2	2:C:743:PRO:HD2	1.74	0.52
2:C:745:GLU:HB2	2:C:1017:GLN:CG	2.38	0.52
2:C:761:GLN:O	2:C:763:THR:N	2.43	0.52
2:C:796:LEU:H	2:C:796:LEU:HD12	1.74	0.52
2:C:878:THR:OG1	2:C:879:GLY:N	2.40	0.52
2:C:894:GLN:NE2	3:D:77:ARG:NH1	2.58	0.52
2:C:1053:TYR:HD1	2:C:1053:TYR:N	2.07	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:153:ASN:HB2	3:D:172:PHE:HZ	1.72	0.52
3:D:365:GLN:HA	3:D:438:GLU:O	2.10	0.52
3:D:514:THR:OG1	3:D:594:GLN:O	2.27	0.52
3:D:684:ASP:O	3:D:687:ALA:N	2.42	0.52
3:D:802:ASP:CG	3:D:1325:PHE:HD2	2.11	0.52
3:D:1257:VAL:HG12	3:D:1258:ARG:N	2.24	0.52
3:D:1282:TYR:HD2	3:D:1286:LYS:NZ	2.05	0.52
3:D:1348:LYS:HG3	8:D:2004:4C4:C21	2.39	0.52
4:E:6:VAL:HG23	4:E:10:VAL:HG23	1.91	0.52
5:F:240:ARG:CB	5:F:244:THR:HB	2.39	0.52
5:F:466:ILE:HD12	5:F:487:MET:CE	2.40	0.52
1:G:11:PRO:HB3	1:G:31:LEU:CD2	2.39	0.52
1:G:89:ALA:HB1	1:G:210:THR:HG23	1.92	0.52
1:G:124:VAL:HG21	1:G:209:GLY:C	2.30	0.52
1:H:84:ASN:O	1:H:128:HIS:HE1	1.93	0.52
2:I:5:TYR:C	2:I:8:LYS:HG2	2.29	0.52
2:I:115:LYS:HA	2:I:115:LYS:HE3	1.91	0.52
2:I:614:TYR:CE1	2:I:652:TYR:HE1	2.28	0.52
2:I:1042:LEU:HD12	2:I:1046:VAL:CG2	2.39	0.52
3:J:259:ARG:HD3	5:L:502:LYS:HD2	1.92	0.52
3:J:515:ARG:HG3	3:J:516:ASP:N	2.25	0.52
3:J:748:ALA:CA	3:J:754:ILE:HA	2.38	0.52
3:J:798:ARG:HG2	3:J:798:ARG:HH11	1.72	0.52
3:J:908:ILE:HD13	3:J:909:ILE:O	2.10	0.52
3:J:1262:ARG:NH1	3:J:1262:ARG:HB2	2.23	0.52
5:L:311:THR:HG21	5:L:348:GLU:OE2	2.10	0.52
1:B:79:LEU:HA	1:B:82:LEU:HB2	1.91	0.52
1:B:307:LEU:CD2	1:B:314:LEU:HB2	2.37	0.52
2:C:303:ASP:CB	2:C:306:THR:HG22	2.39	0.52
2:C:1258:PRO:HG2	3:D:346:ARG:C	2.30	0.52
3:D:407:VAL:O	3:D:411:ILE:HG12	2.10	0.52
3:D:530:PRO:HA	3:D:533:ALA:HB2	1.91	0.52
3:D:649:LYS:HD2	3:D:652:GLU:OE1	2.10	0.52
3:D:1160:SER:HA	3:D:1204:VAL:O	2.10	0.52
3:D:1334:GLU:O	3:D:1337:VAL:HG22	2.10	0.52
5:F:361:ILE:CG1	5:F:362:ASN:N	2.72	0.52
5:F:421:TYR:C	5:F:423:ARG:N	2.61	0.52
1:G:45:ARG:HH12	1:H:37:HIS:HB3	1.75	0.52
1:H:153:VAL:N	1:H:175:ALA:O	2.26	0.52
2:I:30:ILE:N	2:I:30:ILE:CD1	2.73	0.52
2:I:685:MET:HB3	2:I:1235:LEU:HD11	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:736:VAL:CG2	2:I:748:ILE:HA	2.39	0.52
2:I:994:ARG:HA	2:I:997:TRP:CE2	2.45	0.52
2:I:1175:ASN:C	2:I:1176:LEU:HD23	2.30	0.52
2:I:1214:ASP:HB2	2:I:1221:PHE:HZ	1.73	0.52
3:J:1249:ASN:ND2	3:J:1251:LYS:HZ3	2.08	0.52
5:L:270:VAL:HA	5:L:273:MET:HE2	1.91	0.52
5:L:359:LYS:HG3	5:L:360:ASP:N	2.25	0.52
5:L:439:ILE:O	5:L:442:SER:HB3	2.10	0.52
1:A:26:VAL:HG23	1:A:28:LEU:HD11	1.91	0.52
1:A:45:ARG:HE	2:C:1083:GLU:HB3	1.73	0.52
1:A:85:LEU:O	1:A:88:LEU:N	2.38	0.52
2:C:62:TYR:C	2:C:64:GLY:N	2.62	0.52
2:C:195:PHE:CD1	2:C:203:LYS:HG2	2.45	0.52
2:C:390:PHE:HA	2:C:419:ILE:HG21	1.91	0.52
2:C:724:VAL:CG1	2:C:727:VAL:HG23	2.40	0.52
2:C:742:TYR:HD2	2:C:743:PRO:CD	2.23	0.52
2:C:1031:ALA:O	2:C:1034:ARG:N	2.43	0.52
3:D:130:MET:CG	3:D:131:PRO:HD2	2.38	0.52
3:D:421:VAL:HA	3:D:471:PRO:HD3	1.92	0.52
5:F:446:GLN:HG3	5:F:446:GLN:O	2.09	0.52
5:F:462:LYS:HE3	5:F:487:MET:SD	2.50	0.52
2:I:247:ARG:CZ	2:I:247:ARG:HB2	2.38	0.52
2:I:516:ASP:CA	2:I:761:GLN:HE22	2.15	0.52
2:I:600:THR:CG2	2:I:602:GLU:H	2.22	0.52
2:I:1333:LEU:O	3:J:243:PRO:HG3	2.09	0.52
3:J:119:SER:OG	3:J:1333:THR:HG21	2.10	0.52
3:J:172:PHE:CD2	3:J:172:PHE:N	2.76	0.52
3:J:431:ARG:HG3	3:J:432:LEU:HD23	1.91	0.52
3:J:704:GLU:O	3:J:704:GLU:HG3	2.09	0.52
3:J:826:ILE:N	3:J:831:VAL:HA	2.24	0.52
3:J:869:CYS:HA	3:J:872:LEU:HB2	1.92	0.52
3:J:1146:GLU:HA	3:J:1146:GLU:OE2	2.09	0.52
3:J:1269:ALA:HB2	3:J:1274:PHE:CD1	2.45	0.52
4:K:4:VAL:HG13	4:K:5:THR:HG23	1.91	0.52
4:K:66:VAL:HG22	4:K:69:ARG:NH2	2.25	0.52
5:L:130:VAL:HA	5:L:133:SER:CB	2.40	0.52
5:L:388:ILE:O	5:L:392:LYS:HB2	2.10	0.52
5:L:448:ARG:CZ	5:L:452:ILE:HD12	2.39	0.52
1:B:100:LEU:HD11	1:B:118:ASP:CG	2.31	0.52
1:B:212:ASP:HB2	1:B:213:PRO:HD2	1.91	0.52
1:B:303:ILE:O	1:B:305:ASP:N	2.43	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:671:LEU:O	2:C:674:ASP:N	2.37	0.52
2:C:1006:GLU:OE2	2:C:1007:LYS:HG3	2.10	0.52
2:C:1247:SER:OG	2:C:1248:THR:N	2.43	0.52
2:C:1319:MET:HG3	2:C:1320:PRO:HD2	1.90	0.52
3:D:254:PRO:O	3:D:255:LEU:HD13	2.10	0.52
3:D:352:ARG:HB3	3:D:467:ALA:CB	2.40	0.52
3:D:537:TYR:O	3:D:539:SER:N	2.43	0.52
3:D:820:ILE:HG22	3:D:1227:HIS:CE1	2.45	0.52
3:D:1162:ILE:HD12	3:D:1163:VAL:N	2.22	0.52
3:D:1323:ALA:HB2	3:D:1331:VAL:CG1	2.37	0.52
1:G:218:ARG:HG3	1:H:232:VAL:HA	1.91	0.52
1:H:37:HIS:CE1	2:I:1216:ARG:HD2	2.45	0.52
1:H:153:VAL:HG11	1:H:158:ARG:HD3	1.91	0.52
1:H:183:ILE:HD12	1:H:183:ILE:N	2.21	0.52
2:I:84:GLU:HA	2:I:87:ILE:HD12	1.91	0.52
2:I:817:LEU:HD21	2:I:1080:ASN:HB2	1.92	0.52
2:I:1242:LYS:O	2:I:1244:HIS:CE1	2.63	0.52
3:J:279:LEU:HD23	3:J:279:LEU:C	2.31	0.52
3:J:313:GLY:O	3:J:314:ARG:HG3	2.10	0.52
3:J:313:GLY:C	3:J:314:ARG:HG3	2.31	0.52
3:J:365:GLN:HA	3:J:438:GLU:H	1.74	0.52
3:J:409:TRP:O	3:J:412:LEU:HB3	2.10	0.52
3:J:580:TRP:CE3	3:J:583:VAL:HG21	2.45	0.52
3:J:674:THR:HG23	3:J:677:GLU:CG	2.40	0.52
3:J:722:ILE:O	3:J:725:MET:HB2	2.10	0.52
5:L:288:MET:HG3	5:L:302:PHE:CE2	2.45	0.52
5:L:396:ASN:O	5:L:396:ASN:ND2	2.43	0.52
5:L:532:LEU:HD13	5:L:532:LEU:C	2.30	0.52
1:A:81:ILE:O	1:A:84:ASN:N	2.39	0.52
1:A:90:VAL:HG23	1:A:123:ILE:HD13	1.90	0.52
1:A:231:PHE:CD2	1:B:43:LEU:HD21	2.44	0.52
1:B:46:ILE:CG2	1:B:47:LEU:N	2.68	0.52
1:B:100:LEU:HD11	1:B:118:ASP:OD1	2.09	0.52
2:C:226:GLU:HB2	2:C:245:ARG:HH22	1.75	0.52
2:C:297:VAL:HB	2:C:317:LEU:HD21	1.92	0.52
2:C:471:VAL:O	2:C:474:ALA:HB3	2.09	0.52
2:C:674:ASP:OD1	2:C:1108:ASN:HB2	2.10	0.52
2:C:1284:ALA:CB	3:D:1361:THR:CB	2.77	0.52
2:C:1292:THR:HG22	2:C:1293:VAL:N	2.24	0.52
2:C:1305:TYR:OH	3:D:379:PRO:HG3	2.10	0.52
3:D:26:SER:O	3:D:30:ILE:N	2.43	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:487:THR:O	3:D:490:ILE:CG2	2.58	0.52
3:D:661:VAL:CG2	3:D:662:ALA:N	2.73	0.52
3:D:679:TYR:C	3:D:679:TYR:CD2	2.84	0.52
3:D:795:TYR:C	3:D:795:TYR:HD2	2.14	0.52
5:F:269:LEU:O	5:F:273:MET:HG3	2.09	0.52
5:F:292:VAL:HG11	5:F:299:LYS:HG2	1.92	0.52
1:G:81:ILE:CA	1:G:84:ASN:HD22	2.18	0.52
2:I:614:TYR:HD1	2:I:652:TYR:CE1	2.28	0.52
2:I:1073:LYS:HB2	3:J:462:ASP:HB2	1.92	0.52
3:J:16:GLU:HG3	3:J:17:PHE:CD2	2.37	0.52
3:J:190:LYS:HA	3:J:235:GLU:OE2	2.10	0.52
3:J:269:TYR:O	3:J:271:ARG:N	2.43	0.52
3:J:528:THR:HG22	3:J:532:GLU:CD	2.31	0.52
3:J:639:VAL:HG12	3:J:725:MET:CE	2.39	0.52
5:L:139:GLU:C	5:L:141:ILE:H	2.09	0.52
5:L:501:ALA:O	5:L:502:LYS:HB2	2.10	0.52
1:A:68:TYR:HB3	2:C:756:TYR:HD2	1.75	0.51
1:A:152:TYR:CD2	1:A:154:PRO:HD3	2.45	0.51
1:B:85:LEU:C	1:B:87:GLY:H	2.13	0.51
2:C:74:ARG:HB3	2:C:74:ARG:HH11	1.74	0.51
2:C:115:LYS:HD3	2:C:116:ASP:N	2.25	0.51
2:C:157:PHE:O	2:C:442:VAL:HB	2.10	0.51
2:C:494:ASN:HD21	2:C:496:LYS:NZ	2.07	0.51
2:C:593:LYS:HE3	2:C:595:THR:CG2	2.40	0.51
2:C:836:LEU:HD12	2:C:836:LEU:N	2.25	0.51
3:D:107:LEU:HD12	3:D:240:THR:C	2.30	0.51
3:D:751:ASP:CB	3:D:753:SER:H	2.23	0.51
3:D:807:LEU:HD23	3:D:915:ILE:HG13	1.93	0.51
5:F:99:ARG:NH1	5:F:103:ARG:HB2	2.25	0.51
5:F:113:ARG:HA	5:F:116:GLU:CD	2.30	0.51
5:F:575:GLU:O	5:F:579:GLN:HG3	2.10	0.51
1:G:66:HIS:CD2	2:I:929:ILE:HG22	2.44	0.51
2:I:158:ASP:CG	2:I:159:SER:N	2.64	0.51
2:I:168:GLY:C	2:I:170:VAL:H	2.12	0.51
2:I:1075:VAL:HG23	3:J:461:PHE:O	2.10	0.51
2:I:1223:ARG:HH11	2:I:1223:ARG:CB	2.24	0.51
2:I:1281:TYR:CD2	3:J:431:ARG:HB2	2.44	0.51
2:I:1287:LEU:HD23	2:I:1288:GLN:HA	1.92	0.51
3:J:349:TYR:O	3:J:350:SER:HB3	2.08	0.51
3:J:418:GLU:OE1	4:K:2:ALA:N	2.43	0.51
3:J:425:ARG:NH1	3:J:464:ASP:HB3	2.25	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:842:ARG:HB3	3:J:882:VAL:CG1	2.40	0.51
3:J:1262:ARG:CB	3:J:1262:ARG:NH1	2.74	0.51
1:B:311:GLY:O	1:B:312:LEU:HD12	2.10	0.51
2:C:1220:GLN:CG	2:C:1221:PHE:N	2.73	0.51
3:D:114:ILE:HB	3:D:304:ASP:OD1	2.09	0.51
3:D:140:TYR:HD2	5:F:100:MET:CE	2.23	0.51
3:D:333:GLY:O	3:D:335:GLN:N	2.41	0.51
3:D:1280:VAL:HG11	3:D:1304:ARG:NH2	2.25	0.51
3:D:1319:PHE:C	3:D:1319:PHE:HD1	2.14	0.51
4:E:68:GLU:C	4:E:70:GLN:H	2.13	0.51
5:F:408:GLY:HA2	5:F:439:ILE:HG22	1.92	0.51
1:G:33:ARG:HG3	1:G:197:ASP:OD2	2.10	0.51
1:G:49:SER:O	1:G:51:MET:N	2.39	0.51
1:G:187:VAL:HA	1:G:201:LEU:HD13	1.92	0.51
2:I:130:MET:SD	2:I:134:GLY:HA2	2.49	0.51
2:I:218:GLU:O	2:I:222:ASP:HB2	2.10	0.51
2:I:411:ARG:HG3	2:I:411:ARG:NH1	2.25	0.51
2:I:795:ALA:HB1	2:I:1231:TYR:OH	2.11	0.51
2:I:944:ARG:HG3	2:I:948:ILE:CD1	2.34	0.51
2:I:1120:ALA:HB2	2:I:1199:LEU:CG	2.40	0.51
2:I:1284:ALA:CB	3:J:1356:LEU:HD21	2.32	0.51
3:J:278:ARG:O	3:J:281:ARG:HB3	2.10	0.51
3:J:583:VAL:CG1	3:J:587:LEU:HD22	2.38	0.51
3:J:875:ASN:C	3:J:877:VAL:H	2.13	0.51
3:J:905:ARG:HH12	4:K:10:VAL:CG1	2.22	0.51
3:J:1149:ARG:NH2	3:J:1153:PRO:HG2	2.25	0.51
4:K:3:ARG:HE	4:K:3:ARG:CA	2.22	0.51
5:L:247:GLU:O	5:L:251:LYS:HG3	2.10	0.51
5:L:419:PHE:HZ	5:L:427:PHE:HB2	1.75	0.51
1:B:104:LYS:HG2	1:B:110:VAL:HG13	1.93	0.51
1:B:118:ASP:OD1	1:B:118:ASP:N	2.43	0.51
1:B:265:ARG:CZ	1:B:265:ARG:HB2	2.39	0.51
2:C:183:TRP:CD1	2:C:183:TRP:N	2.77	0.51
2:C:516:ASP:HA	2:C:761:GLN:OE1	2.10	0.51
2:C:758:ARG:HG2	2:C:759:SER:O	2.11	0.51
2:C:886:LYS:O	2:C:916:SER:N	2.38	0.51
2:C:1132:LEU:HD11	2:C:1174:GLU:OE2	2.11	0.51
2:C:1281:TYR:CE1	3:D:484:MET:HE3	2.46	0.51
3:D:362:ARG:O	3:D:364:HIS:N	2.43	0.51
3:D:618:VAL:HG12	3:D:619:ILE:N	2.25	0.51
3:D:643:ASP:O	3:D:720:ASN:ND2	2.43	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:846:GLU:HG3	3:D:846:GLU:O	2.10	0.51
3:D:1142:ALA:O	3:D:1146:GLU:N	2.38	0.51
3:D:1155:ILE:HD12	3:D:1155:ILE:N	2.24	0.51
5:F:485:GLU:O	5:F:487:MET:N	2.32	0.51
1:H:53:GLY:O	1:H:148:ARG:HA	2.09	0.51
2:I:198:ILE:CD1	2:I:369:MET:HE3	2.41	0.51
2:I:498:ILE:O	2:I:502:VAL:HG12	2.10	0.51
2:I:1124:ILE:O	2:I:1128:ILE:HG13	2.09	0.51
3:J:227:PHE:HA	3:J:230:SER:HB3	1.92	0.51
3:J:355:ILE:HD13	3:J:466:MET:CG	2.39	0.51
3:J:599:LYS:CE	3:J:599:LYS:HA	2.21	0.51
1:A:91:ARG:NH2	1:A:122:GLU:OE1	2.43	0.51
1:A:228:LEU:CD1	1:B:224:LEU:HG	2.40	0.51
2:C:92:TYR:HE2	2:C:129:LEU:HB2	1.75	0.51
2:C:904:ALA:O	5:F:595:LEU:HD13	2.10	0.51
3:D:299:LEU:O	3:D:302:ALA:N	2.42	0.51
3:D:332:LYS:C	3:D:334:LYS:H	2.12	0.51
3:D:337:ARG:HH22	3:D:1330:ARG:HH12	1.57	0.51
3:D:451:PRO:HG2	3:D:625:MET:SD	2.51	0.51
3:D:809:VAL:HG11	3:D:909:ILE:CG2	2.40	0.51
3:D:1266:ILE:HD11	3:D:1276:GLU:N	2.25	0.51
3:D:1318:SER:OG	3:D:1342:ASP:OD2	2.10	0.51
1:H:100:LEU:HD12	1:H:100:LEU:N	2.26	0.51
2:I:428:VAL:HG12	2:I:429:MET:N	2.25	0.51
2:I:512:SER:O	2:I:513:GLN:HG2	2.11	0.51
2:I:697:LYS:HA	2:I:795:ALA:CB	2.38	0.51
2:I:902:LEU:HD11	5:L:604:SER:HB3	1.90	0.51
2:I:1211:ARG:HD3	2:I:1213:TYR:OH	2.10	0.51
3:J:139:LEU:HB3	3:J:140:TYR:CD1	2.46	0.51
3:J:147:ILE:HG13	3:J:147:ILE:O	2.11	0.51
3:J:148:GLU:N	3:J:156:ARG:HG3	2.19	0.51
3:J:1163:VAL:HG22	3:J:1164:SER:N	2.25	0.51
3:J:1166:GLY:O	3:J:1174:ARG:HB2	2.11	0.51
3:J:1183:SER:C	3:J:1185:PRO:HD3	2.30	0.51
5:L:462:LYS:HG2	5:L:466:ILE:HG13	1.92	0.51
5:L:562:ARG:O	5:L:563:PHE:HD1	1.93	0.51
1:A:77:ASP:OD1	1:A:77:ASP:N	2.37	0.51
2:C:30:ILE:N	2:C:30:ILE:CD1	2.73	0.51
2:C:62:TYR:C	2:C:64:GLY:H	2.14	0.51
2:C:812:PHE:CE2	3:D:451:PRO:CB	2.94	0.51
2:C:860:ALA:O	2:C:863:SER:OG	2.24	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:972:PHE:CZ	2:C:1018:TYR:HE1	2.28	0.51
2:C:1126:ASP:O	2:C:1129:ASN:HB3	2.10	0.51
3:D:171:GLU:OE1	3:D:172:PHE:HE2	1.93	0.51
5:F:561:MET:O	5:F:571:TYR:N	2.34	0.51
1:H:92:VAL:HG13	1:H:120:ASP:O	2.11	0.51
1:H:151:GLY:O	1:H:177:TYR:HB2	2.10	0.51
1:H:208:ASN:OD1	1:H:210:THR:HG23	2.11	0.51
2:I:289:VAL:HG22	2:I:322:LEU:HD12	1.91	0.51
2:I:453:ILE:HD11	2:I:530:ILE:CD1	2.31	0.51
2:I:526:HIS:O	2:I:529:ARG:HB2	2.10	0.51
2:I:796:LEU:HB2	2:I:1233:LEU:HD11	1.93	0.51
2:I:1191:LYS:HZ1	2:I:1192:GLU:HB2	1.75	0.51
2:I:1295:SER:HB3	3:J:347:VAL:HG23	1.89	0.51
3:J:35:PHE:HD1	3:J:101:ARG:HB3	1.74	0.51
3:J:43:THR:HG22	3:J:57:PHE:CD2	2.45	0.51
3:J:260:PHE:O	5:L:504:PRO:HB2	2.10	0.51
3:J:261:ALA:HB2	5:L:505:ILE:HG23	1.91	0.51
3:J:407:VAL:O	3:J:411:ILE:HG12	2.11	0.51
3:J:537:TYR:CE2	3:J:544:LEU:HD22	2.45	0.51
3:J:686:TRP:O	3:J:689:ALA:HB3	2.10	0.51
1:B:140:ILE:HD12	1:B:141:SER:H	1.72	0.51
1:B:145:LYS:HG2	1:B:146:VAL:N	2.25	0.51
2:C:17:LYS:H	2:C:1188:ASP:CG	2.14	0.51
2:C:27:LEU:HD12	2:C:711:ASP:CB	2.41	0.51
2:C:851:THR:OG1	2:C:852:ALA:N	2.43	0.51
2:C:994:ARG:HA	2:C:997:TRP:NE1	2.26	0.51
3:D:313:GLY:C	3:D:314:ARG:CG	2.79	0.51
3:D:653:ILE:HA	3:D:656:GLU:CG	2.41	0.51
3:D:908:ILE:HG12	3:D:909:ILE:N	2.25	0.51
3:D:1268:ASN:O	3:D:1300:ALA:HB1	2.10	0.51
5:F:376:LYS:O	5:F:379:MET:N	2.43	0.51
5:F:585:GLU:OE2	5:F:588:ARG:HD2	2.10	0.51
1:H:68:TYR:CD2	1:H:68:TYR:N	2.77	0.51
1:H:127:GLN:O	1:H:127:GLN:HG2	2.10	0.51
1:H:155:ALA:N	1:H:174:ASP:OD1	2.23	0.51
2:I:634:VAL:O	2:I:645:PHE:N	2.44	0.51
2:I:658:GLN:O	2:I:660:VAL:N	2.43	0.51
2:I:665:ALA:C	2:I:667:LEU:N	2.64	0.51
2:I:1106:ARG:HD3	2:I:1106:ARG:H	1.76	0.51
3:J:673:VAL:HB	3:J:677:GLU:OE1	2.11	0.51
3:J:1356:LEU:HD23	3:J:1357:ILE:HG13	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:L:141:ILE:HG13	5:L:256:PHE:CE1	2.45	0.51
5:L:253:SER:O	5:L:257:LYS:HG3	2.10	0.51
5:L:273:MET:O	5:L:276:MET:N	2.44	0.51
1:A:12:ARG:N	1:A:30:PRO:CG	2.74	0.51
1:A:95:LYS:NZ	1:A:118:ASP:OD1	2.43	0.51
1:B:123:ILE:HG23	1:B:125:LYS:H	1.75	0.51
2:C:92:TYR:CD2	2:C:129:LEU:HB2	2.45	0.51
2:C:221:LEU:HD21	2:C:314:ASN:HB2	1.92	0.51
2:C:350:THR:O	2:C:353:VAL:HG23	2.11	0.51
2:C:379:GLU:OE2	2:C:379:GLU:N	2.37	0.51
2:C:453:ILE:HG22	2:C:453:ILE:O	2.11	0.51
2:C:509:SER:C	2:C:511:LEU:N	2.64	0.51
2:C:599:VAL:HG12	2:C:600:THR:O	2.11	0.51
2:C:1301:ARG:O	2:C:1304:MET:N	2.43	0.51
3:D:203:GLU:O	3:D:207:GLU:N	2.43	0.51
3:D:358:GLY:H	3:D:359:PRO:CD	2.21	0.51
3:D:390:LEU:HD21	3:D:407:VAL:CG1	2.40	0.51
3:D:499:ILE:HG23	3:D:500:ILE:HG12	1.93	0.51
3:D:1238:GLN:O	3:D:1242:ARG:HB2	2.11	0.51
3:D:1275:LEU:HD12	3:D:1276:GLU:N	2.25	0.51
1:G:9:LEU:HD23	1:G:10:LYS:N	2.26	0.51
1:G:118:ASP:HB3	1:G:121:VAL:HB	1.93	0.51
2:I:68:LEU:HD12	2:I:69:GLN:H	1.75	0.51
2:I:471:VAL:CG1	2:I:472:GLU:N	2.74	0.51
2:I:599:VAL:HG12	2:I:600:THR:O	2.11	0.51
2:I:655:VAL:N	2:I:659:GLN:OE1	2.37	0.51
2:I:1066:MET:HE3	2:I:1076:ILE:HD12	1.92	0.51
2:I:1080:ASN:CB	2:I:1085:MET:HE3	2.41	0.51
2:I:1116:HIS:HE1	3:J:641:ILE:CB	2.24	0.51
2:I:1323:PHE:O	2:I:1327:LEU:HD12	2.10	0.51
3:J:23:ALA:O	3:J:1336:ALA:HB1	2.11	0.51
3:J:419:HIS:NE2	3:J:477:GLN:OE1	2.44	0.51
3:J:424:ASN:HB2	3:J:433:GLY:O	2.11	0.51
3:J:707:ILE:HG22	3:J:708:ASN:N	2.18	0.51
3:J:847:ASP:HA	3:J:858:VAL:O	2.10	0.51
5:L:398:GLY:O	5:L:399:LEU:HD22	2.11	0.51
1:B:35:PHE:N	1:B:35:PHE:CD1	2.79	0.51
1:B:95:LYS:HB2	1:B:120:ASP:OD1	2.09	0.51
2:C:115:LYS:HE2	2:C:116:ASP:C	2.31	0.51
2:C:210:LEU:HB3	2:C:220:ILE:CD1	2.40	0.51
3:D:518:VAL:HG11	3:D:707:ILE:CD1	2.38	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:653:ILE:O	3:D:656:GLU:HB2	2.10	0.51
3:D:840:LEU:HD12	3:D:864:LEU:O	2.11	0.51
1:G:154:PRO:HG2	1:G:157:THR:OG1	2.11	0.51
2:I:14:ASP:N	2:I:1157:GLN:OE1	2.32	0.51
2:I:17:LYS:NZ	2:I:1154:ASP:OD1	2.43	0.51
2:I:496:LYS:HA	2:I:499:SER:HB3	1.91	0.51
2:I:1240:ASP:HB3	3:J:445:LYS:HZ2	1.76	0.51
2:I:1254:VAL:O	3:J:99:ARG:NH2	2.40	0.51
3:J:103:GLY:C	3:J:244:VAL:HG13	2.31	0.51
3:J:424:ASN:HD21	3:J:467:ALA:HB3	1.74	0.51
3:J:492:SER:N	3:J:499:ILE:HB	2.26	0.51
3:J:746:LEU:HD12	3:J:746:LEU:N	2.25	0.51
3:J:810:THR:HG23	3:J:894:VAL:H	1.76	0.51
3:J:1249:ASN:OD1	3:J:1251:LYS:HG3	2.11	0.51
5:L:240:ARG:HD3	5:L:244:THR:CG2	2.41	0.51
5:L:498:LEU:H	5:L:498:LEU:CD2	2.24	0.51
2:C:211:ARG:HH12	2:C:217:THR:CB	2.21	0.51
2:C:887:VAL:HA	2:C:914:LYS:O	2.11	0.51
3:D:201:LEU:HD11	3:D:220:ARG:NH1	2.26	0.51
3:D:277:ASN:O	3:D:280:LYS:N	2.43	0.51
3:D:609:TYR:O	3:D:613:GLY:HA2	2.10	0.51
3:D:710:ASP:CG	3:D:711:GLY:N	2.63	0.51
3:D:790:THR:OG1	3:D:928:THR:HG23	2.10	0.51
3:D:1179:PRO:HD2	3:D:1184:ASP:HB3	1.92	0.51
4:E:46:THR:O	4:E:46:THR:OG1	2.28	0.51
5:F:402:LEU:HA	5:F:405:ILE:HG23	1.93	0.51
1:G:152:TYR:CE1	2:I:824:GLN:HA	2.46	0.51
2:I:13:LYS:HD2	2:I:14:ASP:H	1.75	0.51
2:I:30:ILE:CD1	2:I:30:ILE:H	2.24	0.51
2:I:540:ARG:HH21	2:I:568:ASN:ND2	2.08	0.51
2:I:615:VAL:HG22	2:I:650:VAL:HG12	1.92	0.51
2:I:744:GLY:HA3	2:I:1013:GLN:OE1	2.11	0.51
2:I:1207:SER:C	2:I:1209:GLN:H	2.14	0.51
3:J:373:ALA:HA	3:J:376:LEU:HB2	1.92	0.51
3:J:502:PRO:HB2	3:J:507:VAL:HG12	1.93	0.51
3:J:1262:ARG:HB2	3:J:1262:ARG:HH11	1.76	0.51
3:J:1343:GLU:O	3:J:1344:LEU:HB2	2.11	0.51
4:K:3:ARG:NH2	4:K:4:VAL:HG12	2.25	0.51
5:L:466:ILE:HD12	5:L:487:MET:HE2	1.93	0.51
1:A:38:THR:HG22	1:A:39:LEU:CD2	2.41	0.51
1:A:90:VAL:HG23	1:A:123:ILE:CD1	2.41	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:218:ARG:HD3	1:B:232:VAL:O	2.11	0.51
1:B:197:ASP:O	1:B:198:LEU:HD13	2.11	0.51
1:B:208:ASN:ND2	1:B:210:THR:HG23	2.25	0.51
2:C:478:ARG:NH1	2:C:482:GLY:CA	2.74	0.51
2:C:486:THR:HG23	2:C:487:LEU:H	1.75	0.51
2:C:498:ILE:O	2:C:502:VAL:HG12	2.10	0.51
2:C:560:PRO:CG	3:D:773:PHE:CE2	2.92	0.51
2:C:894:GLN:NE2	3:D:77:ARG:HH11	2.08	0.51
2:C:1029:LEU:CD2	2:C:1030:GLU:N	2.71	0.51
2:C:1142:ARG:HH22	2:C:1165:SER:HA	1.72	0.51
2:C:1330:ILE:HG21	2:C:1337:ILE:HG21	1.93	0.51
3:D:140:TYR:O	3:D:141:PHE:HB2	2.11	0.51
3:D:205:LEU:N	3:D:217:LEU:HD21	2.26	0.51
3:D:908:ILE:HG12	3:D:909:ILE:H	1.75	0.51
3:D:1356:LEU:O	3:D:1366:HIS:CE1	2.64	0.51
4:E:59:ILE:CG2	4:E:64:LEU:HD21	2.41	0.51
5:F:124:GLU:CA	5:F:127:ILE:HG12	2.41	0.51
5:F:465:ARG:HE	5:F:468:ARG:HH21	1.58	0.51
1:G:82:LEU:O	1:G:85:LEU:HB2	2.11	0.51
1:G:98:VAL:HG22	1:G:99:ILE:N	2.26	0.51
1:H:158:ARG:HB3	1:H:172:LEU:HD23	1.91	0.51
2:I:4:SER:HB3	2:I:7:GLU:CD	2.30	0.51
2:I:93:SER:OG	2:I:94:ALA:N	2.44	0.51
2:I:560:PRO:CG	2:I:660:VAL:HG23	2.40	0.51
2:I:932:GLN:O	2:I:933:VAL:HG23	2.11	0.51
2:I:1116:HIS:CE1	3:J:641:ILE:CB	2.93	0.51
3:J:107:LEU:HD12	3:J:240:THR:O	2.11	0.51
3:J:134:ASP:HA	3:J:137:ARG:HB3	1.93	0.51
4:K:44:ASP:CB	4:K:49:ILE:HG13	2.39	0.51
4:K:58:LEU:O	4:K:63:ILE:HG12	2.11	0.51
2:C:225:PHE:HZ	2:C:347:ILE:HB	1.72	0.50
2:C:263:VAL:CG1	2:C:267:ARG:HB3	2.41	0.50
2:C:310:ILE:CD1	2:C:325:LEU:HB3	2.41	0.50
2:C:518:ASN:OD1	2:C:518:ASN:N	2.25	0.50
3:D:45:ASN:O	3:D:46:TYR:CB	2.58	0.50
3:D:111:THR:O	3:D:239:LEU:HB2	2.10	0.50
3:D:872:LEU:CD2	3:D:877:VAL:HG21	2.39	0.50
5:F:520:GLY:HA2	5:F:523:ILE:HG13	1.92	0.50
1:G:124:VAL:HG11	1:G:210:THR:CG2	2.41	0.50
2:I:34:SER:OG	2:I:457:GLY:N	2.38	0.50
2:I:201:ARG:HG3	2:I:201:ARG:NH1	2.26	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:669:PRO:CB	2:I:702:THR:HG22	2.41	0.50
2:I:1131:MET:HA	2:I:1134:GLN:HB3	1.93	0.50
3:J:177:ASP:OD2	3:J:179:LYS:NZ	2.44	0.50
3:J:847:ASP:HB2	3:J:856:ILE:CD1	2.41	0.50
3:J:1169:THR:HA	3:J:1192:LYS:HD3	1.92	0.50
5:L:124:GLU:CG	5:L:128:ASN:HD21	2.22	0.50
5:L:303:ILE:O	5:L:307:THR:OG1	2.18	0.50
5:L:492:ASP:HA	5:L:495:ARG:HG3	1.93	0.50
5:L:503:GLU:N	5:L:504:PRO:HA	2.26	0.50
5:L:527:THR:HG23	5:L:528:LEU:N	2.26	0.50
1:A:98:VAL:HG23	1:A:99:ILE:N	2.25	0.50
1:A:100:LEU:HD23	1:A:115:ILE:CG2	2.36	0.50
2:C:4:SER:HB3	2:C:7:GLU:OE1	2.11	0.50
2:C:198:ILE:HG22	2:C:199:ASP:OD1	2.11	0.50
2:C:592:ARG:O	2:C:652:TYR:HA	2.10	0.50
2:C:820:GLU:HB2	2:C:1080:ASN:O	2.10	0.50
2:C:892:GLU:O	2:C:892:GLU:CG	2.54	0.50
2:C:1153:ALA:C	2:C:1155:VAL:HG23	2.31	0.50
2:C:1223:ARG:HB3	2:C:1223:ARG:NH1	2.26	0.50
5:F:470:MET:HE1	5:F:483:LEU:HA	1.94	0.50
1:G:14:VAL:HG13	1:G:15:ASP:N	2.25	0.50
1:H:112:ALA:HB3	1:H:126:PRO:O	2.11	0.50
2:I:303:ASP:N	2:I:308:GLU:O	2.39	0.50
2:I:411:ARG:NH2	2:I:427:ASP:OD2	2.41	0.50
2:I:569:ILE:C	2:I:571:LEU:H	2.12	0.50
2:I:685:MET:HA	2:I:688:GLN:NE2	2.15	0.50
2:I:698:PRO:HA	2:I:1231:TYR:CD1	2.46	0.50
2:I:896:THR:OG1	2:I:899:GLU:HG3	2.12	0.50
2:I:898:GLU:H	2:I:898:GLU:CD	2.02	0.50
2:I:1339:LEU:HD23	3:J:17:PHE:CE1	2.46	0.50
3:J:50:LYS:HB3	3:J:51:PRO:HD2	1.92	0.50
3:J:318:GLY:C	3:J:320:ASN:H	2.13	0.50
3:J:526:VAL:CG1	3:J:549:LYS:HB2	2.41	0.50
3:J:644:MET:HB2	3:J:764:ARG:HG3	1.92	0.50
5:L:213:ASP:HB2	5:L:216:LEU:CB	2.41	0.50
5:L:464:ASN:O	5:L:468:ARG:HG3	2.12	0.50
2:C:5:TYR:O	2:C:8:LYS:N	2.44	0.50
2:C:63:SER:O	2:C:65:ASN:N	2.44	0.50
2:C:74:ARG:HH11	2:C:74:ARG:CB	2.24	0.50
2:C:102:LEU:HD23	2:C:117:ILE:CG1	2.40	0.50
2:C:187:GLU:O	2:C:194:LEU:HD12	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:358:ASP:OD2	2:C:361:SER:HB2	2.11	0.50
2:C:507:GLY:O	2:C:508:SER:OG	2.29	0.50
3:D:140:TYR:CD2	5:F:100:MET:HE1	2.47	0.50
3:D:478:LEU:CB	4:E:20:VAL:HG13	2.41	0.50
3:D:883:ARG:HE	3:D:898:CYS:HA	1.77	0.50
3:D:1322:ALA:HA	3:D:1325:PHE:HE1	1.73	0.50
5:F:366:SER:HA	5:F:369:GLU:CD	2.32	0.50
5:F:608:ARG:NE	5:F:609:SER:HA	2.27	0.50
2:I:18:ARG:HH22	2:I:621:SER:N	2.08	0.50
2:I:32:LEU:HD23	2:I:130:MET:SD	2.51	0.50
2:I:74:ARG:HH12	2:I:97:ARG:HB2	1.73	0.50
2:I:76:GLY:O	2:I:95:PRO:HD2	2.10	0.50
2:I:1047:LEU:HD23	2:I:1047:LEU:N	2.26	0.50
2:I:1115:THR:O	2:I:1228:GLY:HA3	2.11	0.50
2:I:1304:MET:HE3	2:I:1308:ILE:HD11	1.93	0.50
2:I:1312:ASN:HD21	2:I:1314:GLN:HE21	1.58	0.50
3:J:120:LEU:HD13	3:J:121:PRO:N	2.26	0.50
3:J:599:LYS:HA	3:J:599:LYS:HE2	1.91	0.50
3:J:723:TYR:CD1	3:J:723:TYR:C	2.84	0.50
3:J:1233:ILE:O	3:J:1237:VAL:HG12	2.11	0.50
5:L:262:VAL:CG1	5:L:264:LYS:HD3	2.41	0.50
1:B:43:LEU:O	1:B:47:LEU:HD12	2.11	0.50
1:B:46:ILE:HG22	1:B:47:LEU:H	1.74	0.50
1:B:96:ASP:OD2	1:B:97:GLU:HG3	2.11	0.50
1:B:124:VAL:HG11	1:B:209:GLY:HA3	1.93	0.50
2:C:901:LEU:HB2	5:F:563:PHE:CD2	2.44	0.50
2:C:1144:PHE:HA	2:C:1147:ARG:HG3	1.94	0.50
2:C:1257:GLN:HB3	2:C:1258:PRO:CD	2.39	0.50
3:D:324:LEU:H	3:D:324:LEU:HD12	1.75	0.50
3:D:762:ASN:OD1	3:D:764:ARG:N	2.44	0.50
3:D:923:ILE:HG22	3:D:924:GLY:N	2.23	0.50
5:F:279:ARG:HA	5:F:282:THR:CB	2.40	0.50
5:F:487:MET:CB	5:F:489:MET:H	2.23	0.50
1:H:28:LEU:HD23	1:H:31:LEU:HD21	1.93	0.50
2:I:20:GLN:HB3	2:I:1156:ARG:HH22	1.75	0.50
2:I:284:LEU:HD12	2:I:285:ILE:H	1.77	0.50
2:I:386:GLU:CA	2:I:390:PHE:HD2	2.21	0.50
2:I:465:ARG:O	2:I:468:LEU:N	2.40	0.50
2:I:1141:LEU:O	2:I:1144:PHE:N	2.44	0.50
3:J:83:VAL:O	3:J:91:GLU:HA	2.11	0.50
3:J:544:LEU:O	3:J:574:VAL:HB	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:611:ILE:CB	3:J:612:LEU:HD12	2.41	0.50
3:J:625:MET:O	3:J:627:THR:N	2.44	0.50
5:L:227:GLN:HG3	5:L:252:LEU:CA	2.41	0.50
5:L:251:LYS:HA	5:L:254:GLU:HB2	1.94	0.50
5:L:505:ILE:HD12	5:L:506:SER:N	2.27	0.50
1:B:178:SER:C	1:B:180:VAL:H	2.15	0.50
2:C:150:HIS:CD2	2:C:452:ARG:HG2	2.47	0.50
2:C:202:ARG:O	2:C:369:MET:HE2	2.12	0.50
2:C:303:ASP:CB	2:C:306:THR:CG2	2.86	0.50
2:C:516:ASP:HA	2:C:761:GLN:CD	2.30	0.50
2:C:705:GLU:HB2	2:C:794:LEU:H	1.75	0.50
2:C:745:GLU:OE2	2:C:1017:GLN:HB3	2.11	0.50
2:C:903:ARG:HD2	2:C:908:GLU:H	1.77	0.50
2:C:1259:LEU:HD21	5:F:522:PHE:HA	1.93	0.50
3:D:504:GLN:HG3	3:D:505:ASP:N	2.26	0.50
3:D:530:PRO:C	3:D:533:ALA:H	2.14	0.50
3:D:549:LYS:HG2	3:D:571:ASP:OD1	2.11	0.50
3:D:615:LYS:CE	3:D:616:PRO:HD3	2.37	0.50
3:D:627:THR:CG2	3:D:628:GLY:N	2.75	0.50
3:D:809:VAL:HG11	3:D:909:ILE:HG21	1.93	0.50
3:D:869:CYS:O	3:D:873:GLU:N	2.43	0.50
5:F:105:MET:HG3	5:F:384:LEU:HD12	1.92	0.50
5:F:470:MET:HE3	5:F:482:GLU:OE1	2.11	0.50
1:G:29:GLU:OE1	1:G:200:LYS:HE2	2.11	0.50
1:G:38:THR:HG23	1:H:45:ARG:HB2	1.93	0.50
2:I:42:ASP:OD2	2:I:46:GLN:HB3	2.10	0.50
2:I:339:ASN:OD1	2:I:342:ASP:N	2.43	0.50
2:I:346:TYR:CZ	2:I:436:ARG:HG3	2.46	0.50
2:I:458:GLU:O	2:I:462:ASN:ND2	2.44	0.50
2:I:616:ILE:N	2:I:616:ILE:HD12	2.26	0.50
2:I:698:PRO:HG3	2:I:1231:TYR:CE2	2.46	0.50
3:J:233:LYS:N	3:J:236:TRP:CZ3	2.79	0.50
3:J:666:GLU:O	3:J:670:SER:OG	2.27	0.50
3:J:770:LEU:H	3:J:770:LEU:HD22	1.77	0.50
3:J:804:ALA:O	3:J:806:ASP:N	2.45	0.50
3:J:902:ASP:O	3:J:909:ILE:HD13	2.11	0.50
5:L:136:GLU:OE2	5:L:364:ARG:NH2	2.45	0.50
5:L:343:LYS:HA	5:L:346:GLN:OE1	2.11	0.50
2:C:268:ARG:HH21	2:C:270:THR:HG21	1.77	0.50
2:C:301:TYR:CE2	2:C:333:ILE:HA	2.47	0.50
2:C:339:ASN:N	2:C:343:HIS:O	2.45	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1131:MET:HE2	2:C:1141:LEU:HD12	1.92	0.50
3:D:615:LYS:CB	3:D:616:PRO:HD3	2.41	0.50
3:D:843:VAL:CG2	3:D:861:ASN:HB2	2.41	0.50
5:F:390:ILE:HG12	5:F:391:ALA:N	2.26	0.50
1:H:113:ALA:C	1:H:115:ILE:H	2.14	0.50
2:I:414:ILE:HG13	2:I:415:GLU:HG2	1.93	0.50
2:I:656:SER:O	2:I:659:GLN:HG2	2.12	0.50
2:I:939:VAL:HG12	2:I:940:GLU:N	2.27	0.50
2:I:1128:ILE:CD1	2:I:1145:ILE:HD11	2.41	0.50
2:I:1247:SER:OG	2:I:1248:THR:N	2.44	0.50
3:J:75:TYR:OH	3:J:86:GLU:OE1	2.20	0.50
3:J:85:CYS:SG	3:J:87:LYS:N	2.85	0.50
3:J:156:ARG:NH2	3:J:188:LEU:O	2.45	0.50
3:J:230:SER:HB2	3:J:1337:VAL:O	2.11	0.50
3:J:252:LEU:CD2	3:J:262:THR:CB	2.88	0.50
3:J:449:LEU:HD12	3:J:450:HIS:H	1.76	0.50
5:L:96:ASP:OD1	5:L:98:VAL:HG13	2.10	0.50
5:L:230:VAL:HG22	5:L:248:GLU:OE1	2.12	0.50
5:L:500:ILE:HG22	5:L:500:ILE:O	2.12	0.50
1:A:112:ALA:N	1:A:128:HIS:O	2.41	0.50
1:B:77:ASP:N	1:B:80:GLU:HB3	2.26	0.50
1:B:124:VAL:HG12	1:B:125:LYS:HG3	1.93	0.50
1:B:300:LEU:HD13	1:B:300:LEU:O	2.12	0.50
2:C:61:SER:HB3	2:C:479:LEU:HB3	1.93	0.50
2:C:176:ILE:O	2:C:176:ILE:HG22	2.11	0.50
2:C:215:TYR:HE2	2:C:422:LYS:CD	2.25	0.50
2:C:760:ASN:C	2:C:762:ASN:H	2.15	0.50
2:C:932:GLN:O	2:C:933:VAL:HG23	2.11	0.50
2:C:1005:GLU:HG2	2:C:1006:GLU:CD	2.32	0.50
2:C:1156:ARG:HH11	2:C:1156:ARG:CB	2.24	0.50
2:C:1320:PRO:HB3	3:D:345:LYS:NZ	2.27	0.50
2:C:1325:VAL:O	2:C:1327:LEU:N	2.45	0.50
3:D:364:HIS:HB2	3:D:485:MET:CE	2.41	0.50
3:D:824:PRO:HB3	3:D:835:LEU:N	2.27	0.50
3:D:1172:LYS:HA	3:D:1190:ILE:O	2.12	0.50
4:E:32:VAL:O	4:E:32:VAL:HG12	2.11	0.50
5:F:120:ALA:O	5:F:123:ILE:HB	2.12	0.50
5:F:281:ARG:HA	5:F:284:GLU:HB2	1.93	0.50
5:F:564:GLY:O	5:F:567:MET:N	2.40	0.50
1:G:39:LEU:O	1:G:43:LEU:HB2	2.12	0.50
1:G:81:ILE:HA	1:G:84:ASN:ND2	2.20	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:98:VAL:HG22	1:G:99:ILE:H	1.76	0.50
2:I:388:LEU:CB	2:I:389:PHE:CD2	2.94	0.50
2:I:548:ARG:NH2	2:I:567:PRO:O	2.45	0.50
2:I:648:ASP:O	2:I:649:GLN:HG2	2.12	0.50
2:I:933:VAL:CG2	2:I:1050:VAL:CG1	2.88	0.50
2:I:994:ARG:HG2	2:I:997:TRP:CZ2	2.47	0.50
2:I:1109:ILE:O	2:I:1112:ILE:HB	2.11	0.50
3:J:615:LYS:HG2	4:K:5:THR:OG1	2.11	0.50
3:J:1167:LYS:HB2	3:J:1174:ARG:HD3	1.94	0.50
3:J:1171:GLY:CA	3:J:1193:TRP:HZ3	2.24	0.50
4:K:62:GLN:O	4:K:66:VAL:HG23	2.12	0.50
5:L:345:GLN:HA	5:L:348:GLU:OE1	2.12	0.50
5:L:509:THR:CG2	5:L:510:PRO:HD2	2.42	0.50
1:A:172:LEU:HD12	1:A:172:LEU:H	1.77	0.50
2:C:509:SER:C	2:C:511:LEU:H	2.15	0.50
2:C:607:SER:CA	2:C:610:GLU:HG3	2.42	0.50
2:C:621:SER:CB	2:C:634:VAL:HG21	2.39	0.50
2:C:975:ILE:O	2:C:978:VAL:N	2.44	0.50
3:D:18:ASP:CB	3:D:1373:ARG:HH21	2.24	0.50
3:D:411:ILE:O	3:D:414:GLU:N	2.37	0.50
3:D:449:LEU:HD12	3:D:450:HIS:N	2.27	0.50
3:D:518:VAL:CG1	3:D:707:ILE:HD13	2.40	0.50
3:D:739:GLN:O	3:D:763:PHE:HD2	1.94	0.50
3:D:818:GLU:O	3:D:887:SER:HB2	2.12	0.50
3:D:1371:ARG:HD2	3:J:856:ILE:CD1	2.41	0.50
5:F:127:ILE:HG22	5:F:131:GLN:HG3	1.94	0.50
2:I:35:PHE:O	2:I:38:PHE:HB3	2.12	0.50
2:I:296:VAL:HG13	2:I:315:MET:O	2.11	0.50
2:I:486:THR:HG23	2:I:487:LEU:N	2.27	0.50
2:I:510:GLN:OE1	2:I:534:GLY:HA2	2.10	0.50
2:I:512:SER:C	2:I:513:GLN:HG2	2.33	0.50
2:I:806:PRO:HB3	3:J:505:ASP:OD1	2.11	0.50
2:I:1124:ILE:HD13	2:I:1202:GLY:CA	2.41	0.50
2:I:1240:ASP:OD1	2:I:1240:ASP:N	2.31	0.50
2:I:1325:VAL:HG12	2:I:1326:LEU:N	2.27	0.50
3:J:785:ASP:O	3:J:788:LEU:HD23	2.11	0.50
3:J:1145:PHE:O	3:J:1309:ILE:HG12	2.12	0.50
3:J:1359:ALA:O	3:J:1363:TYR:N	2.45	0.50
5:L:507:MET:C	5:L:509:THR:H	2.15	0.50
1:A:41:ASN:O	1:A:43:LEU:N	2.45	0.50
1:B:108:GLY:O	1:B:133:LEU:HD22	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:282:VAL:O	1:B:315:GLY:N	2.45	0.50
1:B:287:VAL:HB	1:B:288:GLU:OE2	2.12	0.50
2:C:148:GLN:HG2	2:C:149:LEU:H	1.76	0.50
2:C:287:VAL:HB	2:C:288:PRO:HD2	1.94	0.50
2:C:486:THR:CG2	2:C:487:LEU:N	2.72	0.50
2:C:959:ASP:C	2:C:963:GLU:HG2	2.31	0.50
2:C:1314:GLN:HG2	4:E:28:ARG:CZ	2.42	0.50
3:D:253:VAL:HG21	5:F:523:ILE:CD1	2.41	0.50
3:D:326:SER:O	3:D:327:LEU:C	2.51	0.50
3:D:1146:GLU:O	3:D:1147:ALA:HB3	2.11	0.50
3:D:1282:TYR:HB3	3:D:1286:LYS:HZ1	1.74	0.50
5:F:279:ARG:O	5:F:283:GLN:HG2	2.12	0.50
1:G:97:GLU:HG2	1:G:97:GLU:O	2.11	0.50
2:I:53:PHE:CD2	2:I:70:TYR:CE1	3.00	0.50
2:I:342:ASP:O	2:I:437:ASN:HB3	2.12	0.50
2:I:399:ALA:O	2:I:403:MET:N	2.42	0.50
2:I:452:ARG:CG	2:I:453:ILE:N	2.75	0.50
2:I:572:ILE:O	2:I:573:ASN:CB	2.60	0.50
2:I:1325:VAL:O	2:I:1328:LYS:N	2.44	0.50
3:J:56:LEU:CD2	3:J:269:TYR:HB3	2.42	0.50
3:J:197:GLU:O	3:J:201:LEU:HG	2.12	0.50
3:J:217:LEU:C	3:J:217:LEU:HD12	2.32	0.50
3:J:221:ILE:HA	3:J:224:LEU:CB	2.38	0.50
3:J:425:ARG:NH1	3:J:459:ALA:HA	2.26	0.50
3:J:665:GLN:O	3:J:669:GLN:N	2.34	0.50
3:J:1165:PHE:HE1	3:J:1200:GLU:HB2	1.76	0.50
3:J:1184:ASP:N	3:J:1185:PRO:CD	2.74	0.50
5:L:283:GLN:O	5:L:287:ILE:HG13	2.11	0.50
5:L:387:VAL:HG13	5:L:435:ILE:CG2	2.40	0.50
5:L:448:ARG:CD	5:L:452:ILE:HD12	2.40	0.50
5:L:564:GLY:O	5:L:567:MET:N	2.41	0.50
1:A:73:GLY:C	1:A:134:THR:HG22	2.32	0.49
1:A:130:ILE:HD12	1:A:130:ILE:N	2.27	0.49
1:A:166:ARG:O	1:A:168:ILE:N	2.45	0.49
1:B:82:LEU:C	1:B:85:LEU:HG	2.32	0.49
1:B:282:VAL:HG21	1:B:316:MET:HE1	1.93	0.49
2:C:5:TYR:HD2	2:C:781:ASP:OD1	1.95	0.49
2:C:169:LYS:HE2	2:C:190:PRO:CA	2.42	0.49
2:C:1008:GLN:O	2:C:1012:GLU:HB2	2.12	0.49
2:C:1073:LYS:HB2	3:D:462:ASP:HB2	1.93	0.49
2:C:1170:MET:HA	2:C:1170:MET:CE	2.41	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:64:PRO:HG2	3:D:93:THR:H	1.77	0.49
3:D:629:PHE:O	3:D:632:ALA:HB3	2.12	0.49
3:D:1252:HIS:HA	3:D:1255:VAL:HG13	1.94	0.49
5:F:343:LYS:HA	5:F:346:GLN:HB3	1.94	0.49
1:H:79:LEU:O	1:H:83:LEU:HD13	2.11	0.49
2:I:421:SER:O	2:I:424:ASP:HB2	2.12	0.49
2:I:614:TYR:CD2	2:I:614:TYR:N	2.80	0.49
2:I:634:VAL:O	2:I:645:PHE:HB2	2.11	0.49
2:I:1113:LEU:HD11	3:J:641:ILE:HG13	1.93	0.49
2:I:1334:GLY:O	3:J:25:ALA:CB	2.60	0.49
3:J:164:GLN:O	3:J:167:ASP:HB3	2.11	0.49
3:J:269:TYR:O	3:J:272:VAL:N	2.43	0.49
3:J:481:ARG:CA	3:J:485:MET:HB2	2.34	0.49
3:J:692:ARG:O	3:J:696:ALA:N	2.44	0.49
3:J:820:ILE:HG22	3:J:1227:HIS:ND1	2.27	0.49
1:B:173:VAL:HG12	1:B:174:ASP:O	2.12	0.49
2:C:420:LEU:N	2:C:420:LEU:CD2	2.74	0.49
2:C:529:ARG:HG2	2:C:530:ILE:N	2.22	0.49
2:C:678:ARG:HH21	2:C:1106:ARG:HG2	1.77	0.49
2:C:1282:GLY:HA3	4:E:17:PHE:CZ	2.48	0.49
3:D:161:THR:HG23	3:D:164:GLN:H	1.78	0.49
3:D:205:LEU:HD21	3:D:218:THR:HB	1.94	0.49
3:D:507:VAL:HG11	3:D:598:LYS:CB	2.39	0.49
3:D:534:GLU:HA	3:D:578:ILE:HD13	1.94	0.49
5:F:402:LEU:HA	5:F:405:ILE:CG2	2.42	0.49
1:G:184:ALA:HB2	2:I:1091:GLY:HA3	1.93	0.49
2:I:18:ARG:NH2	2:I:620:ASN:HA	2.26	0.49
2:I:615:VAL:HG23	2:I:636:CYS:HB3	1.94	0.49
2:I:1086:PRO:HA	2:I:1213:TYR:O	2.12	0.49
3:J:42:GLU:OE1	3:J:42:GLU:N	2.45	0.49
3:J:287:ALA:CB	3:J:288:PRO:HD2	2.38	0.49
3:J:320:ASN:CG	3:J:322:ARG:HB3	2.32	0.49
3:J:339:ARG:CB	3:J:340:GLN:CA	2.67	0.49
3:J:355:ILE:HG21	3:J:466:MET:HB2	1.93	0.49
3:J:390:LEU:N	3:J:390:LEU:HD12	2.27	0.49
3:J:430:HIS:ND1	3:J:925:GLU:HG3	2.27	0.49
3:J:520:ALA:HB3	3:J:546:ALA:CA	2.42	0.49
3:J:528:THR:O	3:J:551:ARG:HB3	2.12	0.49
3:J:632:ALA:O	3:J:635:SER:OG	2.22	0.49
3:J:759:ILE:HD13	3:J:771:GLN:HG2	1.93	0.49
3:J:800:LEU:O	3:J:803:VAL:HG12	2.11	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:814:CYS:HB3	3:J:890:THR:OG1	2.12	0.49
3:J:842:ARG:CD	3:J:882:VAL:HG11	2.34	0.49
3:J:901:ARG:CA	3:J:908:ILE:HA	2.40	0.49
3:J:1219:ASP:O	3:J:1222:ARG:N	2.45	0.49
3:J:1319:PHE:HD1	3:J:1320:ILE:N	2.10	0.49
3:J:1333:THR:O	3:J:1337:VAL:HG13	2.12	0.49
4:K:6:VAL:HG23	4:K:10:VAL:CG2	2.42	0.49
1:A:107:ILE:HA	1:A:133:LEU:HB3	1.94	0.49
1:B:9:LEU:CD2	1:B:10:LYS:H	2.25	0.49
1:B:82:LEU:HA	1:B:85:LEU:HD11	1.94	0.49
2:C:606:LEU:HD12	2:C:606:LEU:N	2.27	0.49
2:C:646:SER:HB3	2:C:649:GLN:CG	2.19	0.49
2:C:928:VAL:HG12	2:C:929:ILE:N	2.26	0.49
2:C:1176:LEU:HD13	2:C:1180:MET:HG3	1.95	0.49
3:D:56:LEU:CD2	3:D:269:TYR:HB3	2.43	0.49
3:D:722:ILE:O	3:D:725:MET:HB2	2.11	0.49
5:F:448:ARG:HG2	5:F:448:ARG:HH11	1.77	0.49
1:H:55:ALA:HB1	1:H:176:CYS:SG	2.52	0.49
1:H:81:ILE:O	1:H:84:ASN:N	2.40	0.49
2:I:296:VAL:CG1	2:I:336:LEU:HD12	2.42	0.49
2:I:496:LYS:HD2	2:I:497:PRO:HG3	1.93	0.49
2:I:615:VAL:CG2	2:I:650:VAL:HG12	2.41	0.49
2:I:706:ARG:HH12	2:I:782:VAL:HG21	1.77	0.49
2:I:767:GLN:HA	2:I:785:ASP:O	2.12	0.49
2:I:1117:LEU:HD21	2:I:1182:ILE:HD12	1.93	0.49
3:J:147:ILE:O	3:J:177:ASP:HB3	2.13	0.49
3:J:198:CYS:O	3:J:201:LEU:N	2.45	0.49
3:J:1172:LYS:NZ	3:J:1191:PRO:HG3	2.28	0.49
5:L:343:LYS:CA	5:L:346:GLN:HB3	2.42	0.49
5:L:362:ASN:O	5:L:365:MET:HB3	2.12	0.49
5:L:565:ILE:O	5:L:566:ASP:HB2	2.13	0.49
5:L:573:LEU:H	5:L:573:LEU:CD2	2.24	0.49
1:A:12:ARG:H	1:A:30:PRO:CG	2.25	0.49
1:A:179:PRO:HB3	1:A:208:ASN:CG	2.32	0.49
1:B:265:ARG:CG	1:B:266:SER:N	2.75	0.49
1:B:289:LEU:HD13	1:B:300:LEU:HD21	1.94	0.49
2:C:1291:LEU:HD12	2:C:1291:LEU:O	2.13	0.49
2:C:1309:VAL:HG12	3:D:379:PRO:HB3	1.94	0.49
2:C:1334:GLY:O	3:D:25:ALA:CB	2.60	0.49
3:D:279:LEU:HD12	3:D:295:GLU:HG2	1.95	0.49
3:D:490:ILE:O	3:D:490:ILE:HG12	2.11	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:848:VAL:O	3:D:857:LEU:N	2.36	0.49
5:F:372:ALA:O	5:F:375:ALA:HB3	2.12	0.49
5:F:402:LEU:CA	5:F:405:ILE:HG23	2.43	0.49
1:G:48:LEU:O	1:G:180:VAL:HG21	2.12	0.49
1:H:9:LEU:CB	1:H:32:GLU:CG	2.90	0.49
1:H:47:LEU:HD22	1:H:180:VAL:CG1	2.42	0.49
2:I:160:ASP:H	2:I:161:LYS:NZ	2.11	0.49
2:I:728:ASP:HB3	2:I:731:ARG:H	1.77	0.49
2:I:763:THR:OG1	2:I:764:CYS:N	2.41	0.49
2:I:1105:SER:HB2	3:J:731:ARG:HG2	1.94	0.49
2:I:1223:ARG:NH1	2:I:1223:ARG:CB	2.72	0.49
3:J:335:GLN:O	3:J:1328:THR:OG1	2.31	0.49
3:J:509:GLY:HA3	3:J:628:GLY:O	2.12	0.49
3:J:794:GLY:O	3:J:798:ARG:HB2	2.12	0.49
3:J:848:VAL:O	3:J:857:LEU:N	2.43	0.49
3:J:1146:GLU:OE2	3:J:1309:ILE:HG13	2.12	0.49
3:J:1226:VAL:C	3:J:1228:ALA:H	2.14	0.49
4:K:60:ASN:CG	4:K:62:GLN:HB3	2.32	0.49
5:L:137:TYR:CZ	5:L:139:GLU:HB2	2.48	0.49
5:L:343:LYS:O	5:L:346:GLN:HB3	2.11	0.49
1:A:102:LEU:O	1:A:141:SER:HA	2.12	0.49
2:C:519:ASN:C	2:C:519:ASN:OD1	2.50	0.49
2:C:670:PHE:CE2	2:C:1113:LEU:C	2.86	0.49
2:C:756:TYR:CE1	2:C:766:ASN:CG	2.85	0.49
2:C:1087:TYR:CE2	2:C:1213:TYR:HB2	2.47	0.49
2:C:1175:ASN:C	2:C:1176:LEU:HD23	2.33	0.49
2:C:1285:TYR:C	2:C:1287:LEU:N	2.63	0.49
3:D:79:LYS:O	3:D:81:ARG:N	2.46	0.49
3:D:268:LEU:HD21	3:D:305:ALA:C	2.32	0.49
3:D:1138:LEU:O	3:D:1141:VAL:HB	2.11	0.49
3:D:1141:VAL:O	3:D:1144:LEU:N	2.43	0.49
3:D:1249:ASN:OD1	3:D:1250:ASP:N	2.45	0.49
4:E:3:ARG:CZ	4:E:3:ARG:HA	2.42	0.49
5:F:428:SER:O	5:F:430:TYR:N	2.46	0.49
5:F:475:GLY:C	5:F:476:ARG:HD2	2.32	0.49
1:H:64:VAL:C	1:H:66:HIS:H	2.16	0.49
2:I:247:ARG:NH2	2:I:274:ILE:HD12	2.28	0.49
2:I:614:TYR:CD1	2:I:652:TYR:CE1	3.00	0.49
2:I:839:VAL:O	2:I:886:LYS:HE2	2.12	0.49
2:I:933:VAL:C	2:I:934:PHE:HD2	2.15	0.49
2:I:1170:MET:HA	2:I:1170:MET:CE	2.38	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:260:PHE:HB3	5:L:504:PRO:HG2	1.93	0.49
3:J:438:GLU:OE2	3:J:481:ARG:NH1	2.43	0.49
3:J:592:VAL:O	3:J:592:VAL:HG23	2.11	0.49
3:J:819:GLY:CA	3:J:882:VAL:O	2.60	0.49
4:K:3:ARG:HH21	4:K:4:VAL:HG12	1.76	0.49
5:L:117:ILE:HG23	5:L:421:TYR:CG	2.48	0.49
5:L:286:LEU:O	5:L:290:LEU:HG	2.13	0.49
5:L:573:LEU:HD22	5:L:573:LEU:N	2.27	0.49
1:A:31:LEU:CD1	1:A:201:LEU:HB2	2.43	0.49
1:A:90:VAL:HG22	1:A:91:ARG:H	1.77	0.49
1:A:155:ALA:HB2	1:A:174:ASP:OD1	2.13	0.49
1:A:231:PHE:CD2	1:B:43:LEU:CD2	2.96	0.49
2:C:484:LEU:O	2:C:486:THR:N	2.39	0.49
2:C:800:MET:HE2	2:C:1096:ILE:HD11	1.95	0.49
2:C:817:LEU:CD2	2:C:1085:MET:HE1	2.42	0.49
2:C:1143:GLU:O	2:C:1147:ARG:HG2	2.13	0.49
3:D:46:TYR:CD1	3:D:46:TYR:C	2.85	0.49
3:D:49:PHE:HE1	5:F:500:ILE:HD11	1.78	0.49
3:D:72:CYS:SG	3:D:73:GLY:N	2.85	0.49
3:D:262:THR:OG1	3:D:266:ASN:ND2	2.46	0.49
3:D:678:ARG:O	3:D:682:VAL:HG23	2.12	0.49
3:D:755:ILE:CD1	3:D:774:ILE:HG21	2.43	0.49
3:D:1158:GLU:HB3	3:D:1186:TYR:CE1	2.48	0.49
5:F:234:THR:O	5:F:245:ALA:HB1	2.13	0.49
1:G:171:LEU:HD13	1:G:171:LEU:N	2.28	0.49
1:H:108:GLY:O	1:H:133:LEU:HB2	2.13	0.49
2:I:560:PRO:O	3:J:776:THR:HG21	2.12	0.49
2:I:700:VAL:HG21	2:I:1114:GLU:CG	2.42	0.49
2:I:1075:VAL:HG22	3:J:463:GLY:HA2	1.92	0.49
2:I:1161:LEU:HD12	2:I:1163:THR:OG1	2.12	0.49
2:I:1176:LEU:O	2:I:1179:GLY:N	2.33	0.49
2:I:1210:ILE:HG22	2:I:1211:ARG:O	2.12	0.49
2:I:1279:GLU:O	3:J:914:ALA:HB3	2.11	0.49
3:J:130:MET:CE	3:J:135:ILE:HG12	2.43	0.49
3:J:641:ILE:HA	3:J:644:MET:HE2	1.93	0.49
3:J:718:SER:OG	3:J:719:PHE:N	2.46	0.49
3:J:1263:LYS:CE	3:J:1279:GLN:HE22	2.24	0.49
4:K:59:ILE:HG23	4:K:64:LEU:HD21	1.94	0.49
1:B:99:ILE:HD12	1:B:145:LYS:HB2	1.94	0.49
1:B:104:LYS:HE2	1:B:110:VAL:HG22	1.94	0.49
1:B:268:ASN:HA	1:B:271:LYS:CB	2.43	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:35:PHE:O	2:C:37:LYS:N	2.45	0.49
2:C:201:ARG:HB3	2:C:369:MET:HE2	1.95	0.49
2:C:521:LEU:HD12	2:C:687:ARG:HB3	1.94	0.49
2:C:903:ARG:HD2	2:C:908:GLU:O	2.12	0.49
2:C:1066:MET:HG2	2:C:1233:LEU:O	2.13	0.49
2:C:1134:GLN:C	2:C:1135:GLN:HG2	2.33	0.49
3:D:221:ILE:HG23	3:D:222:LYS:N	2.27	0.49
3:D:337:ARG:NH2	3:D:1330:ARG:HH12	2.11	0.49
3:D:785:ASP:O	3:D:788:LEU:N	2.45	0.49
4:E:25:ARG:NH1	4:E:64:LEU:HB2	2.27	0.49
5:F:130:VAL:HG22	5:F:365:MET:CA	2.36	0.49
5:F:324:LYS:HB3	5:F:325:PRO:HD2	1.94	0.49
1:G:23:HIS:HB2	1:G:206:GLU:HA	1.95	0.49
1:G:110:VAL:HG13	1:G:114:ASP:OD2	2.12	0.49
1:H:76:GLU:HB2	1:H:81:ILE:HG12	1.95	0.49
1:H:195:ARG:HB3	1:H:198:LEU:HD21	1.94	0.49
2:I:130:MET:CG	2:I:134:GLY:HA2	2.43	0.49
2:I:558:VAL:CG1	2:I:559:CYS:N	2.75	0.49
2:I:702:THR:O	2:I:1185:PRO:HA	2.12	0.49
2:I:806:PRO:HD3	2:I:1100:PRO:CD	2.43	0.49
2:I:882:ILE:CD1	2:I:919:ARG:HH12	2.25	0.49
2:I:893:THR:O	2:I:894:GLN:HB3	2.12	0.49
2:I:901:LEU:O	2:I:901:LEU:HD12	2.13	0.49
2:I:921:PRO:HB2	2:I:924:VAL:CG2	2.39	0.49
2:I:1283:ALA:O	2:I:1285:TYR:N	2.46	0.49
3:J:185:ILE:O	3:J:189:LEU:HG	2.13	0.49
3:J:265:LEU:CD1	3:J:327:LEU:HD21	2.37	0.49
3:J:611:ILE:HB	3:J:612:LEU:CD1	2.41	0.49
3:J:1145:PHE:HB3	3:J:1309:ILE:CD1	2.42	0.49
4:K:10:VAL:O	4:K:14:GLY:HA2	2.12	0.49
1:A:134:THR:HG23	2:C:726:TYR:HE1	1.76	0.49
1:B:59:VAL:HG11	1:B:144:ILE:HD12	1.95	0.49
1:B:289:LEU:O	1:B:295:LEU:HD13	2.13	0.49
2:C:102:LEU:HD12	2:C:103:VAL:N	2.27	0.49
2:C:149:LEU:HD12	2:C:452:ARG:O	2.13	0.49
2:C:881:ASP:OD1	2:C:881:ASP:N	2.45	0.49
2:C:918:LEU:CD1	2:C:918:LEU:C	2.81	0.49
2:C:1113:LEU:CD1	3:D:641:ILE:CG1	2.91	0.49
2:C:1146:GLN:O	2:C:1150:ASP:OD2	2.30	0.49
2:C:1336:ASN:HD22	3:D:29:MET:HE1	1.77	0.49
3:D:544:LEU:HD13	3:D:575:GLY:HA2	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:849:LEU:H	3:D:849:LEU:CD2	2.15	0.49
3:D:1164:SER:O	3:D:1175:LEU:HD12	2.13	0.49
3:D:1176:VAL:HG22	3:D:1187:GLU:CB	2.41	0.49
1:G:112:ALA:O	1:G:115:ILE:HG13	2.13	0.49
2:I:74:ARG:NH1	2:I:97:ARG:HG3	2.28	0.49
2:I:176:ILE:HB	2:I:184:LEU:CB	2.28	0.49
2:I:346:TYR:CE2	2:I:436:ARG:HG3	2.48	0.49
2:I:481:LEU:HD13	2:I:481:LEU:N	2.28	0.49
2:I:680:LEU:HD23	2:I:681:MET:N	2.27	0.49
2:I:1142:ARG:HH12	2:I:1169:VAL:HG21	1.71	0.49
2:I:1170:MET:HA	2:I:1170:MET:HE3	1.95	0.49
3:J:146:VAL:HG11	3:J:149:GLY:HA3	1.93	0.49
3:J:223:LEU:O	3:J:226:ALA:HB3	2.13	0.49
3:J:492:SER:HG	3:J:494:ALA:HB3	1.76	0.49
3:J:502:PRO:CA	3:J:506:VAL:HG11	2.42	0.49
3:J:754:ILE:HG13	3:J:755:ILE:N	2.28	0.49
5:L:494:ILE:HG22	5:L:498:LEU:CD2	2.43	0.49
1:B:6:THR:OG1	1:B:7:GLU:N	2.46	0.49
2:C:14:ASP:N	2:C:1157:GLN:OE1	2.45	0.49
2:C:732:ILE:HD13	2:C:783:LEU:HD12	1.94	0.49
2:C:835:GLU:C	2:C:836:LEU:HD12	2.32	0.49
2:C:871:VAL:CG2	2:C:872:TYR:N	2.75	0.49
3:D:201:LEU:HD11	3:D:220:ARG:HH11	1.76	0.49
3:D:313:GLY:C	3:D:314:ARG:HG2	2.33	0.49
3:D:869:CYS:O	3:D:872:LEU:N	2.46	0.49
2:I:478:ARG:C	2:I:480:SER:H	2.16	0.49
2:I:699:LEU:HD11	2:I:1179:GLY:HA3	1.94	0.49
2:I:700:VAL:HG13	2:I:1117:LEU:HD22	1.95	0.49
2:I:723:VAL:HG13	2:I:775:GLU:C	2.33	0.49
2:I:972:PHE:HD1	2:I:994:ARG:HH21	1.60	0.49
3:J:354:VAL:HA	3:J:465:GLN:HG2	1.95	0.49
3:J:803:VAL:HG11	3:J:1309:ILE:HG22	1.93	0.49
3:J:1170:LYS:O	3:J:1170:LYS:HE2	2.13	0.49
3:J:1289:ASN:ND2	3:J:1290:ARG:HH12	2.11	0.49
4:K:7:GLN:O	4:K:7:GLN:NE2	2.43	0.49
5:L:355:ILE:CA	5:L:358:VAL:HG22	2.42	0.49
5:L:494:ILE:O	5:L:497:VAL:HB	2.12	0.49
1:B:262:LEU:HD13	1:B:263:THR:O	2.13	0.49
2:C:563:THR:OG1	2:C:564:PRO:HD2	2.13	0.49
2:C:1251:TYR:CE1	2:C:1301:ARG:CZ	2.95	0.49
2:C:1275:VAL:O	2:C:1278:LEU:N	2.44	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:58:CYS:SG	3:D:59:ALA:N	2.86	0.49
3:D:537:TYR:C	3:D:539:SER:N	2.66	0.49
5:F:138:PRO:CD	5:F:353:LEU:HD11	2.43	0.49
5:F:311:THR:HG21	5:F:348:GLU:OE2	2.12	0.49
5:F:316:PHE:CE1	5:F:337:VAL:HG21	2.48	0.49
1:G:124:VAL:CG1	1:G:125:LYS:HG2	2.42	0.49
2:I:599:VAL:CG2	2:I:629:PHE:CE1	2.95	0.49
2:I:1088:ASP:OD1	2:I:1090:ASN:N	2.46	0.49
3:J:22:ILE:HG12	3:J:23:ALA:H	1.78	0.49
3:J:220:ARG:HG2	3:J:224:LEU:HD12	1.94	0.49
3:J:362:ARG:H	3:J:365:GLN:NE2	2.10	0.49
3:J:403:ARG:NH1	3:J:403:ARG:CG	2.74	0.49
3:J:511:TYR:C	3:J:511:TYR:HD1	2.17	0.49
3:J:813:ASP:HB2	3:J:897:HIS:ND1	2.28	0.49
3:J:1146:GLU:O	3:J:1147:ALA:HB3	2.13	0.49
5:L:414:LYS:NZ	5:L:434:TRP:HZ3	2.11	0.49
5:L:550:GLY:C	5:L:551:LEU:HD23	2.33	0.49
1:B:211:ILE:HG23	1:B:211:ILE:O	2.13	0.48
1:B:296:GLY:O	1:B:300:LEU:HB2	2.13	0.48
2:C:221:LEU:HD23	2:C:351:LEU:CD1	2.43	0.48
2:C:344:GLY:CA	2:C:346:TYR:CE2	2.89	0.48
2:C:882:ILE:HD12	2:C:882:ILE:N	2.11	0.48
3:D:290:ILE:HG23	5:F:104:GLU:OE2	2.13	0.48
3:D:778:GLY:O	3:D:781:LYS:N	2.46	0.48
3:D:1161:GLY:O	3:D:1177:ILE:HG22	2.13	0.48
4:E:8:ASP:O	4:E:11:GLU:HB2	2.13	0.48
5:F:137:TYR:O	5:F:141:ILE:HD13	2.13	0.48
5:F:142:THR:O	5:F:146:GLU:HG3	2.13	0.48
5:F:219:GLU:O	5:F:222:ALA:HB3	2.13	0.48
5:F:524:GLU:HG3	5:F:525:ASP:O	2.13	0.48
5:F:563:PHE:C	5:F:565:ILE:H	2.16	0.48
5:F:600:HIS:N	5:F:601:PRO:HD3	2.28	0.48
1:G:61:ILE:HG22	1:G:62:ASP:N	2.27	0.48
1:G:224:LEU:HD22	1:H:228:LEU:CD1	2.43	0.48
2:I:57:PHE:CD1	2:I:70:TYR:CB	2.96	0.48
2:I:550:VAL:HA	2:I:554:HIS:CD2	2.48	0.48
2:I:756:TYR:H	2:I:756:TYR:HD1	1.57	0.48
2:I:770:CYS:SG	2:I:784:ALA:HA	2.53	0.48
2:I:800:MET:HG3	2:I:1096:ILE:CD1	2.42	0.48
2:I:816:ILE:HG22	2:I:817:LEU:N	2.28	0.48
2:I:953:LEU:CA	2:I:1036:ILE:HD13	2.43	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:1222:GLU:OE1	3:J:635:SER:HA	2.13	0.48
3:J:490:ILE:H	3:J:904:ALA:HB1	1.78	0.48
3:J:797:THR:O	3:J:800:LEU:N	2.46	0.48
4:K:78:ALA:O	4:K:80:LEU:HD13	2.13	0.48
5:L:379:MET:HG3	5:L:380:VAL:N	2.28	0.48
1:A:36:GLY:HA3	1:A:187:VAL:CG1	2.42	0.48
1:B:75:GLN:HE22	1:B:132:HIS:HB2	1.79	0.48
1:B:197:ASP:OD1	1:B:197:ASP:N	2.43	0.48
1:B:263:THR:HG22	1:B:302:GLU:CD	2.33	0.48
2:C:18:ARG:HG2	2:C:1188:ASP:CG	2.34	0.48
2:C:367:TYR:HD1	2:C:381:ALA:CA	2.22	0.48
2:C:648:ASP:O	2:C:649:GLN:HG2	2.14	0.48
2:C:800:MET:CE	2:C:822:VAL:HG21	2.43	0.48
2:C:1136:GLN:O	2:C:1140:LYS:CG	2.54	0.48
3:D:72:CYS:HB3	3:D:88:CYS:SG	2.53	0.48
3:D:421:VAL:HG23	3:D:422:LEU:N	2.27	0.48
3:D:518:VAL:HG13	3:D:519:ASN:N	2.28	0.48
3:D:1340:LYS:CG	3:D:1341:ARG:H	2.26	0.48
5:F:108:VAL:HA	5:F:385:ARG:NH2	2.27	0.48
1:H:115:ILE:CG2	1:H:116:THR:H	2.23	0.48
2:I:74:ARG:NH1	2:I:97:ARG:CB	2.70	0.48
2:I:92:TYR:CD2	2:I:129:LEU:HB2	2.47	0.48
2:I:310:ILE:CG2	2:I:325:LEU:HD23	2.42	0.48
2:I:794:LEU:HG	2:I:796:LEU:CD1	2.42	0.48
2:I:852:ALA:HB2	2:I:869:GLY:HA2	1.94	0.48
2:I:870:ILE:HG22	2:I:944:ARG:HD3	1.94	0.48
2:I:934:PHE:N	2:I:934:PHE:CD2	2.80	0.48
2:I:1070:HIS:HD2	2:I:1111:GLN:HB3	1.78	0.48
2:I:1126:ASP:HA	2:I:1129:ASN:HB3	1.94	0.48
2:I:1130:ALA:O	2:I:1133:LYS:N	2.46	0.48
3:J:97:VAL:CG1	3:J:101:ARG:CZ	2.89	0.48
3:J:422:LEU:HB2	3:J:469:HIS:HB2	1.96	0.48
3:J:506:VAL:HG13	3:J:507:VAL:H	1.78	0.48
3:J:624:ILE:HA	3:J:627:THR:CG2	2.43	0.48
3:J:773:PHE:O	3:J:776:THR:HB	2.13	0.48
3:J:843:VAL:HG13	3:J:883:ARG:HD3	1.93	0.48
3:J:1249:ASN:HD21	3:J:1251:LYS:NZ	2.12	0.48
4:K:36:ASP:OD1	4:K:36:ASP:N	2.43	0.48
5:L:270:VAL:HG12	5:L:274:ARG:NH2	2.27	0.48
5:L:288:MET:HA	5:L:302:PHE:CZ	2.48	0.48
5:L:388:ILE:O	5:L:392:LYS:N	2.38	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:L:555:GLU:O	5:L:558:VAL:HB	2.13	0.48
5:L:584:ARG:O	5:L:587:ILE:N	2.44	0.48
1:B:135:ASP:O	1:B:136:GLU:HB3	2.13	0.48
2:C:194:LEU:HD12	2:C:195:PHE:H	1.78	0.48
2:C:271:ALA:O	2:C:275:ARG:N	2.32	0.48
2:C:490:GLN:O	2:C:492:MET:N	2.46	0.48
2:C:800:MET:HE1	2:C:822:VAL:CG2	2.43	0.48
2:C:1013:GLN:O	2:C:1016:GLU:HB2	2.13	0.48
2:C:1073:LYS:CB	3:D:462:ASP:HB2	2.43	0.48
2:C:1191:LYS:HD3	2:C:1191:LYS:C	2.33	0.48
2:C:1281:TYR:HD2	2:C:1281:TYR:N	2.12	0.48
3:D:49:PHE:CE1	5:F:500:ILE:HD11	2.48	0.48
3:D:882:VAL:CG1	3:D:883:ARG:N	2.75	0.48
5:F:555:GLU:O	5:F:558:VAL:HB	2.13	0.48
1:G:50:SER:OG	1:H:35:PHE:CZ	2.66	0.48
1:G:156:SER:HB2	2:I:1059:ARG:HH22	1.78	0.48
1:H:98:VAL:HG13	1:H:100:LEU:CD1	2.42	0.48
2:I:241:LEU:HB3	2:I:283:LYS:O	2.13	0.48
2:I:670:PHE:H	2:I:1184:THR:HG21	1.77	0.48
2:I:818:VAL:HG22	2:I:1095:ASP:O	2.13	0.48
2:I:1163:THR:O	2:I:1165:SER:N	2.46	0.48
3:J:242:LEU:HD23	3:J:243:PRO:N	2.28	0.48
3:J:418:GLU:HB3	4:K:48:VAL:CG2	2.39	0.48
3:J:818:GLU:HG2	3:J:887:SER:HB2	1.94	0.48
3:J:1155:ILE:HD12	3:J:1155:ILE:H	1.78	0.48
3:J:1226:VAL:HA	3:J:1229:VAL:HG12	1.93	0.48
3:J:1249:ASN:HD21	3:J:1251:LYS:HZ3	1.60	0.48
3:J:1292:LEU:O	3:J:1293:GLU:HB2	2.13	0.48
5:L:227:GLN:HB2	5:L:255:VAL:HG21	1.96	0.48
5:L:441:ARG:HD2	5:L:441:ARG:O	2.13	0.48
1:A:57:THR:C	1:A:158:ARG:HH22	2.16	0.48
1:A:102:LEU:HB3	1:A:142:MET:CG	2.44	0.48
1:B:63:GLY:CA	1:B:71:LYS:HE3	2.41	0.48
2:C:169:LYS:NZ	2:C:192:ASP:OD1	2.39	0.48
2:C:359:ARG:NH1	2:C:378:ARG:HH22	2.12	0.48
2:C:810:TYR:HD2	3:D:359:PRO:HD2	1.72	0.48
3:D:45:ASN:N	3:D:50:LYS:O	2.46	0.48
3:D:257:GLY:O	3:D:259:ARG:N	2.46	0.48
3:D:378:LYS:CB	3:D:379:PRO:HD3	2.42	0.48
3:D:580:TRP:O	3:D:583:VAL:HG23	2.12	0.48
3:D:655:SER:HA	3:D:658:GLU:HB3	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:800:LEU:N	3:D:800:LEU:HD12	2.28	0.48
3:D:847:ASP:HA	3:D:858:VAL:O	2.13	0.48
3:D:883:ARG:HB3	3:D:898:CYS:HA	1.96	0.48
3:D:1262:ARG:NH2	3:D:1312:ALA:HB1	2.24	0.48
4:E:45:LYS:O	4:E:49:ILE:HG13	2.12	0.48
1:G:153:VAL:N	1:G:175:ALA:O	2.36	0.48
2:I:82:VAL:CG2	2:I:92:TYR:CE1	2.96	0.48
2:I:123:TYR:OH	2:I:126:GLU:HG3	2.13	0.48
2:I:158:ASP:CG	2:I:159:SER:H	2.17	0.48
2:I:338:THR:CG2	2:I:345:PRO:CB	2.79	0.48
2:I:633:LEU:HD23	2:I:633:LEU:H	1.76	0.48
2:I:669:PRO:HA	2:I:702:THR:HG22	1.96	0.48
2:I:996:ARG:HD3	2:I:999:GLU:OE2	2.14	0.48
2:I:1010:GLN:O	2:I:1013:GLN:HB2	2.12	0.48
2:I:1122:LYS:CB	2:I:1229:TYR:CE1	2.96	0.48
3:J:368:LEU:HD23	3:J:368:LEU:C	2.34	0.48
3:J:491:LEU:CB	3:J:904:ALA:HA	2.37	0.48
3:J:739:GLN:OE1	3:J:744:ARG:HD2	2.13	0.48
3:J:903:LEU:HB3	3:J:905:ARG:CG	2.44	0.48
3:J:1172:LYS:CB	3:J:1189:MET:HB3	2.44	0.48
3:J:1219:ASP:O	3:J:1223:LEU:N	2.39	0.48
5:L:389:SER:O	5:L:392:LYS:HB3	2.13	0.48
5:L:421:TYR:C	5:L:423:ARG:H	2.17	0.48
1:A:16:ILE:HG23	1:A:26:VAL:HG12	1.95	0.48
1:A:29:GLU:N	1:A:30:PRO:HD3	2.28	0.48
1:A:152:TYR:HD1	2:C:824:GLN:HG2	1.74	0.48
1:B:82:LEU:HD23	1:B:85:LEU:CD1	2.44	0.48
2:C:39:ILE:CD1	2:C:75:LEU:HG	2.43	0.48
2:C:101:ARG:CZ	2:C:118:LYS:HD2	2.43	0.48
2:C:211:ARG:HD2	2:C:356:THR:OG1	2.13	0.48
2:C:516:ASP:CA	2:C:761:GLN:HE22	2.20	0.48
2:C:549:ASP:OD2	3:D:777:HIS:ND1	2.46	0.48
2:C:1138:VAL:O	2:C:1142:ARG:N	2.21	0.48
2:C:1305:TYR:CE1	3:D:379:PRO:HG2	2.41	0.48
2:C:1339:LEU:HD12	2:C:1339:LEU:N	2.28	0.48
3:D:336:GLY:HA2	3:D:338:PHE:CA	2.42	0.48
3:D:597:GLY:HA3	3:D:599:LYS:HG3	1.95	0.48
3:D:833:GLU:OE2	3:D:834:PRO:HD2	2.14	0.48
4:E:9:ALA:HB2	4:E:55:GLU:HG2	1.96	0.48
1:G:100:LEU:HD23	1:G:115:ILE:CG2	2.34	0.48
2:I:179:TYR:OH	2:I:458:GLU:OE2	2.17	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:222:ASP:HA	2:I:227:LYS:HZ3	1.79	0.48
2:I:390:PHE:O	2:I:419:ILE:HD12	2.13	0.48
2:I:660:VAL:HG11	3:J:769:VAL:HG13	1.95	0.48
2:I:667:LEU:CD2	2:I:704:MET:HB2	2.40	0.48
2:I:840:SER:HA	2:I:886:LYS:HD2	1.95	0.48
2:I:1108:ASN:O	2:I:1110:GLY:N	2.47	0.48
2:I:1120:ALA:HB2	2:I:1199:LEU:HG	1.95	0.48
3:J:288:PRO:O	3:J:291:ILE:N	2.43	0.48
3:J:492:SER:HB2	3:J:499:ILE:CD1	2.42	0.48
3:J:518:VAL:HG13	3:J:519:ASN:HB3	1.96	0.48
3:J:568:SER:OG	3:J:570:LYS:HG2	2.14	0.48
3:J:1167:LYS:HZ3	3:J:1170:LYS:HB2	1.77	0.48
3:J:1172:LYS:HZ1	3:J:1191:PRO:HG3	1.77	0.48
5:L:121:LYS:HA	5:L:421:TYR:CE2	2.48	0.48
5:L:433:TRP:NE1	5:L:437:GLN:HB2	2.28	0.48
1:A:11:PRO:HA	1:A:30:PRO:CG	2.44	0.48
1:B:102:LEU:C	1:B:141:SER:HA	2.34	0.48
1:B:302:GLU:O	1:B:305:ASP:HB2	2.13	0.48
2:C:18:ARG:O	2:C:1156:ARG:HD2	2.13	0.48
2:C:93:SER:HA	2:C:128:PRO:HA	1.95	0.48
2:C:192:ASP:HB3	2:C:346:TYR:HD1	1.79	0.48
2:C:593:LYS:HE3	2:C:595:THR:HG22	1.96	0.48
2:C:594:VAL:HG12	2:C:596:ASP:O	2.14	0.48
2:C:1253:LEU:HD23	2:C:1253:LEU:O	2.14	0.48
3:D:292:VAL:O	3:D:296:LYS:HG3	2.11	0.48
3:D:344:GLY:HA2	8:D:2004:4C4:H22	1.96	0.48
3:D:363:LEU:CA	3:D:450:HIS:CD2	2.93	0.48
3:D:914:ALA:O	3:D:916:GLY:N	2.46	0.48
3:D:1307:LEU:HD12	3:D:1308:GLY:H	1.78	0.48
3:D:1337:VAL:HG23	3:D:1338:ALA:N	2.27	0.48
3:D:1344:LEU:O	3:D:1345:ARG:HB2	2.14	0.48
5:F:279:ARG:CA	5:F:282:THR:HB	2.43	0.48
2:I:10:ARG:HD3	2:I:1181:PRO:CG	2.40	0.48
2:I:78:PRO:HB3	2:I:93:SER:O	2.13	0.48
2:I:587:LEU:HA	2:I:587:LEU:HD23	1.47	0.48
2:I:782:VAL:HG11	2:I:792:GLY:HA2	1.96	0.48
2:I:822:VAL:HG12	2:I:823:VAL:N	2.29	0.48
2:I:1134:GLN:HG2	2:I:1136:GLN:HG2	1.96	0.48
2:I:1290:MET:HE2	2:I:1294:LYS:CE	2.44	0.48
3:J:99:ARG:HG3	3:J:249:LEU:HD21	1.95	0.48
3:J:367:GLY:O	3:J:448:GLN:N	2.31	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:514:THR:HB	3:J:596:LEU:HD23	1.95	0.48
3:J:552:ILE:C	3:J:552:ILE:HD12	2.33	0.48
3:J:653:ILE:HD13	3:J:692:ARG:HB3	1.96	0.48
3:J:1162:ILE:CG1	3:J:1163:VAL:N	2.77	0.48
3:J:1238:GLN:CB	3:J:1242:ARG:HH21	2.27	0.48
3:J:1346:GLY:HA3	3:J:1349:GLU:CB	2.44	0.48
3:J:1352:ILE:CD1	3:J:1352:ILE:H	2.26	0.48
5:L:101:TYR:CZ	5:L:405:ILE:HD11	2.48	0.48
1:A:36:GLY:HA2	1:A:201:LEU:HD22	1.95	0.48
1:B:89:ALA:CB	1:B:124:VAL:HB	2.37	0.48
2:C:74:ARG:NH1	2:C:121:GLU:OE2	2.47	0.48
2:C:1021:LEU:N	2:C:1021:LEU:HD23	2.24	0.48
2:C:1066:MET:HE3	2:C:1076:ILE:CG2	2.44	0.48
2:C:1256:GLN:HE22	5:F:528:LEU:HD23	1.78	0.48
2:C:1328:LYS:O	2:C:1332:SER:HB3	2.14	0.48
3:D:194:LEU:O	3:D:197:GLU:N	2.46	0.48
3:D:227:PHE:CE2	3:D:234:PRO:HG3	2.49	0.48
3:D:236:TRP:C	3:D:238:ILE:N	2.65	0.48
3:D:291:ILE:O	3:D:294:ASN:N	2.46	0.48
4:E:74:GLU:O	4:E:77:ALA:HB3	2.14	0.48
5:F:297:MET:HE1	5:F:330:LEU:HD11	1.95	0.48
5:F:309:ASN:HA	5:F:356:GLU:OE2	2.14	0.48
1:G:211:ILE:HD13	1:G:212:ASP:N	2.28	0.48
1:H:101:THR:H	1:H:116:THR:CG2	2.26	0.48
2:I:27:LEU:HA	2:I:528:ARG:NH1	2.28	0.48
2:I:57:PHE:HD1	2:I:69:GLN:C	2.16	0.48
2:I:250:THR:HA	2:I:268:ARG:HA	1.96	0.48
2:I:1087:TYR:N	2:I:1087:TYR:CD1	2.82	0.48
3:J:43:THR:OG1	5:L:449:THR:O	2.26	0.48
3:J:113:HIS:ND1	3:J:115:TRP:HB2	2.26	0.48
3:J:361:LEU:O	3:J:626:TYR:OH	2.28	0.48
3:J:398:LYS:HG2	3:J:402:GLU:OE2	2.14	0.48
3:J:870:ASP:O	3:J:873:GLU:HB3	2.14	0.48
3:J:1241:TYR:CD2	3:J:1246:VAL:CG1	2.97	0.48
3:J:1269:ALA:CB	3:J:1274:PHE:CE1	2.97	0.48
5:L:227:GLN:CG	5:L:255:VAL:HG21	2.43	0.48
1:A:33:ARG:O	1:A:35:PHE:N	2.46	0.48
1:B:37:HIS:CE1	2:C:1216:ARG:HD2	2.49	0.48
1:B:273:GLU:CD	1:B:293:PRO:HD2	2.33	0.48
2:C:102:LEU:HD11	2:C:104:ILE:HD11	1.94	0.48
2:C:143:ARG:HH21	2:C:513:GLN:N	2.12	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:209:ILE:O	2:C:213:LEU:HD23	2.14	0.48
2:C:260:LYS:HE3	2:C:262:TYR:CE1	2.48	0.48
2:C:582:ASN:HB3	2:C:586:PHE:N	2.29	0.48
2:C:593:LYS:CG	2:C:595:THR:HG23	2.43	0.48
2:C:755:LYS:HD3	2:C:766:ASN:OD1	2.14	0.48
2:C:873:ILE:HG13	2:C:944:ARG:HH22	1.79	0.48
2:C:1082:ILE:HD12	2:C:1082:ILE:N	2.28	0.48
3:D:317:THR:HA	3:D:324:LEU:HD21	1.96	0.48
3:D:318:GLY:O	3:D:319:SER:HB3	2.13	0.48
3:D:433:GLY:C	3:D:434:ILE:HG13	2.33	0.48
3:D:478:LEU:O	3:D:481:ARG:N	2.45	0.48
3:D:602:SER:O	3:D:605:LEU:HB2	2.13	0.48
3:D:745:GLY:C	3:D:746:LEU:HD12	2.34	0.48
3:D:865:HIS:CE1	3:D:868:TRP:CD1	3.01	0.48
3:D:1347:LEU:HD12	3:D:1347:LEU:N	2.29	0.48
5:F:141:ILE:HD12	5:F:141:ILE:N	2.28	0.48
5:F:278:ASP:O	5:F:282:THR:N	2.45	0.48
5:F:440:THR:HG23	5:F:441:ARG:H	1.76	0.48
5:F:456:MET:HB3	5:F:456:MET:HE2	1.57	0.48
5:F:509:THR:HG23	5:F:510:PRO:O	2.13	0.48
5:F:599:ARG:C	5:F:601:PRO:HD3	2.33	0.48
2:I:46:GLN:O	2:I:51:ALA:HB2	2.14	0.48
2:I:277:LEU:CD2	2:I:282:VAL:HB	2.43	0.48
2:I:302:ILE:HG22	2:I:309:LEU:HA	1.95	0.48
2:I:484:LEU:HB2	2:I:485:ASP:H	1.49	0.48
2:I:516:ASP:HA	2:I:761:GLN:CD	2.34	0.48
2:I:553:THR:O	2:I:557:ARG:HD2	2.13	0.48
2:I:1174:GLU:O	2:I:1177:ARG:HG2	2.14	0.48
2:I:1304:MET:HE2	2:I:1308:ILE:HD11	1.95	0.48
2:I:1313:HIS:ND1	2:I:1313:HIS:N	2.62	0.48
3:J:74:LYS:C	3:J:75:TYR:HD1	2.16	0.48
3:J:416:ILE:CG1	3:J:441:LEU:HD21	2.44	0.48
3:J:463:GLY:O	3:J:465:GLN:HG3	2.14	0.48
3:J:812:ASP:HB2	3:J:911:LYS:CE	2.42	0.48
1:A:31:LEU:HD12	1:A:199:ASP:O	2.13	0.48
1:A:45:ARG:HH22	2:C:1216:ARG:HG2	1.78	0.48
1:B:41:ASN:O	1:B:44:ARG:HB2	2.13	0.48
1:B:154:PRO:C	1:B:157:THR:HG1	2.18	0.48
2:C:29:SER:HB2	2:C:30:ILE:HD12	1.95	0.48
2:C:39:ILE:O	2:C:40:GLU:CB	2.62	0.48
2:C:465:ARG:O	2:C:468:LEU:HB2	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:719:LYS:HE3	2:C:751:TYR:CE1	2.48	0.48
2:C:1006:GLU:CD	2:C:1006:GLU:N	2.67	0.48
3:D:403:ARG:HH11	3:D:403:ARG:HG3	1.77	0.48
3:D:422:LEU:HD13	3:D:471:PRO:HG3	1.96	0.48
3:D:429:LEU:HA	3:D:429:LEU:HD13	1.46	0.48
3:D:517:CYS:SG	3:D:518:VAL:N	2.86	0.48
3:D:1144:LEU:HD12	3:D:1237:VAL:HA	1.96	0.48
3:D:1251:LYS:HZ3	3:D:1251:LYS:HG3	1.36	0.48
3:D:1351:VAL:C	3:D:1354:GLY:H	2.16	0.48
5:F:121:LYS:HE2	5:F:421:TYR:OH	2.14	0.48
5:F:387:VAL:HG21	5:F:409:ASN:OD1	2.13	0.48
5:F:433:TRP:HZ3	5:F:434:TRP:CE2	2.32	0.48
5:F:530:LEU:O	5:F:534:SER:N	2.47	0.48
5:F:584:ARG:O	5:F:587:ILE:N	2.46	0.48
1:G:18:GLN:HA	1:G:24:ALA:HB1	1.95	0.48
2:I:144:VAL:CG1	2:I:145:ILE:N	2.77	0.48
2:I:325:LEU:O	2:I:328:SER:N	2.47	0.48
2:I:387:ASN:O	2:I:394:ARG:HG3	2.14	0.48
2:I:405:PHE:CE2	2:I:409:LEU:CD1	2.97	0.48
2:I:786:GLY:C	2:I:789:THR:HG23	2.34	0.48
2:I:1052:VAL:C	2:I:1053:TYR:HD1	2.16	0.48
2:I:1125:GLY:O	2:I:1128:ILE:N	2.47	0.48
2:I:1156:ARG:HH11	2:I:1156:ARG:HG3	1.79	0.48
2:I:1260:GLY:CA	2:I:1265:PHE:HA	2.36	0.48
3:J:375:GLU:OE2	3:J:378:LYS:HD2	2.14	0.48
3:J:382:TYR:CB	3:J:394:ILE:HD13	2.43	0.48
3:J:1290:ARG:CZ	3:J:1290:ARG:HB2	2.41	0.48
4:K:23:ALA:HB2	4:K:54:ILE:HG13	1.94	0.48
5:L:231:THR:HB	5:L:252:LEU:HD22	1.96	0.48
1:B:103:ASN:HA	1:B:141:SER:CB	2.34	0.48
2:C:159:SER:O	2:C:160:ASP:CB	2.61	0.48
2:C:230:PHE:CE1	2:C:239:MET:HB2	2.48	0.48
2:C:390:PHE:CA	2:C:419:ILE:HG21	2.43	0.48
2:C:1027:LYS:HG3	2:C:1028:LYS:N	2.29	0.48
2:C:1030:GLU:OE1	2:C:1033:ARG:NH2	2.47	0.48
2:C:1337:ILE:HA	3:D:21:LYS:O	2.14	0.48
3:D:16:GLU:HA	3:D:16:GLU:OE2	2.14	0.48
3:D:227:PHE:HE1	3:D:232:ASN:O	1.97	0.48
3:D:318:GLY:O	3:D:320:ASN:N	2.36	0.48
3:D:686:TRP:HA	3:D:686:TRP:CE3	2.48	0.48
3:D:707:ILE:HD12	3:D:707:ILE:N	2.28	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1330:ARG:O	3:D:1333:THR:N	2.47	0.48
5:F:274:ARG:HA	5:F:277:MET:CB	2.44	0.48
2:I:28:LEU:HD22	2:I:527:LYS:HD3	1.96	0.48
2:I:61:SER:HB3	2:I:66:SER:HB2	1.96	0.48
2:I:119:GLU:HG3	2:I:488:MET:HB3	1.96	0.48
2:I:174:ALA:CB	2:I:432:LEU:HD13	2.29	0.48
2:I:208:ILE:HD11	2:I:356:THR:CG2	2.43	0.48
2:I:210:LEU:HB3	2:I:220:ILE:HD11	1.95	0.48
2:I:211:ARG:NH2	2:I:351:LEU:CD2	2.77	0.48
2:I:1149:TYR:HE2	2:I:1180:MET:SD	2.36	0.48
2:I:1155:VAL:CG2	2:I:1157:GLN:H	2.21	0.48
2:I:1210:ILE:CG2	2:I:1211:ARG:N	2.76	0.48
3:J:227:PHE:CZ	3:J:232:ASN:HB2	2.49	0.48
3:J:261:ALA:CB	5:L:505:ILE:HG23	2.43	0.48
3:J:392:THR:HG21	5:L:606:VAL:CG2	2.43	0.48
3:J:518:VAL:HG13	3:J:519:ASN:N	2.27	0.48
3:J:536:LEU:HD13	3:J:541:LEU:CB	2.38	0.48
3:J:749:LYS:HB2	3:J:750:PRO:HD3	1.95	0.48
3:J:842:ARG:CZ	3:J:884:SER:HB2	2.44	0.48
5:L:121:LYS:O	5:L:124:GLU:HB3	2.13	0.48
2:C:409:LEU:HD22	2:C:427:ASP:HB3	1.96	0.47
2:C:452:ARG:HG3	2:C:453:ILE:N	2.29	0.47
3:D:75:TYR:CD1	3:D:75:TYR:N	2.82	0.47
3:D:337:ARG:HA	3:D:338:PHE:HA	1.52	0.47
3:D:526:VAL:CG1	3:D:549:LYS:HB2	2.44	0.47
3:D:810:THR:CG2	3:D:893:GLY:CA	2.83	0.47
3:D:1243:LEU:O	3:D:1243:LEU:HG	2.12	0.47
1:G:13:LEU:H	1:G:13:LEU:CD2	2.25	0.47
1:G:155:ALA:N	1:G:174:ASP:OD1	2.42	0.47
1:G:218:ARG:HD3	1:H:233:ASP:CA	2.44	0.47
2:I:736:VAL:H	2:I:748:ILE:HG22	1.78	0.47
2:I:866:ASP:OD2	2:I:868:SER:N	2.46	0.47
2:I:1113:LEU:CD1	3:J:641:ILE:HG13	2.44	0.47
2:I:1302:THR:HG22	5:L:531:PRO:CA	2.45	0.47
3:J:23:ALA:HA	3:J:1336:ALA:O	2.13	0.47
3:J:327:LEU:O	3:J:329:ASP:N	2.47	0.47
3:J:392:THR:CB	5:L:606:VAL:HG11	2.42	0.47
3:J:428:THR:O	3:J:428:THR:HG22	2.14	0.47
3:J:452:LEU:O	3:J:500:ILE:HG23	2.14	0.47
3:J:499:ILE:HG22	3:J:500:ILE:HG12	1.96	0.47
3:J:629:PHE:O	3:J:632:ALA:N	2.46	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:646:ILE:HD11	3:J:764:ARG:HB3	1.96	0.47
3:J:844:THR:HG21	3:J:858:VAL:HG21	1.95	0.47
3:J:1257:VAL:O	3:J:1261:LEU:CD1	2.62	0.47
5:L:276:MET:O	5:L:280:VAL:HG23	2.14	0.47
5:L:343:LYS:O	5:L:347:ILE:HG13	2.14	0.47
2:C:719:LYS:N	2:C:751:TYR:OH	2.41	0.47
2:C:803:ALA:HB2	2:C:1227:VAL:HB	1.95	0.47
2:C:1024:GLU:O	2:C:1024:GLU:HG2	2.14	0.47
2:C:1142:ARG:CZ	2:C:1165:SER:HA	2.44	0.47
2:C:1191:LYS:CE	2:C:1192:GLU:HB2	2.44	0.47
3:D:79:LYS:HE3	3:D:80:HIS:N	2.29	0.47
3:D:1140:ARG:O	3:D:1143:ASP:HB2	2.14	0.47
3:D:1145:PHE:HB3	3:D:1309:ILE:CD1	2.43	0.47
5:F:121:LYS:O	5:F:124:GLU:N	2.47	0.47
5:F:238:LYS:CE	5:F:242:HIS:CE1	2.97	0.47
5:F:248:GLU:HA	5:F:251:LYS:HG3	1.97	0.47
5:F:512:GLY:O	5:F:513:ASP:CB	2.62	0.47
1:G:41:ASN:C	1:G:43:LEU:H	2.18	0.47
1:G:80:GLU:CG	1:G:84:ASN:HD21	2.25	0.47
2:I:848:GLU:CG	2:I:888:THR:HG22	2.43	0.47
2:I:1077:SER:O	2:I:1078:LYS:HB2	2.14	0.47
2:I:1156:ARG:HH11	2:I:1156:ARG:CG	2.27	0.47
3:J:42:GLU:O	3:J:55:GLY:HA3	2.15	0.47
3:J:353:SER:OG	3:J:354:VAL:O	2.30	0.47
3:J:481:ARG:HG3	3:J:485:MET:SD	2.54	0.47
3:J:870:ASP:O	3:J:874:GLU:N	2.44	0.47
3:J:900:GLY:O	3:J:908:ILE:HG12	2.14	0.47
5:L:343:LYS:C	5:L:346:GLN:HB3	2.34	0.47
1:B:10:LYS:HG3	1:B:11:PRO:HD2	1.96	0.47
1:B:89:ALA:HB1	1:B:124:VAL:CB	2.37	0.47
1:B:154:PRO:HB2	1:B:157:THR:OG1	2.13	0.47
1:B:248:GLU:CG	1:B:249:PHE:N	2.77	0.47
2:C:242:VAL:CB	2:C:245:ARG:HD2	2.43	0.47
2:C:509:SER:O	2:C:512:SER:N	2.24	0.47
2:C:686:GLN:O	2:C:689:ALA:HB2	2.13	0.47
2:C:712:SER:O	2:C:714:VAL:HG22	2.14	0.47
2:C:975:ILE:HG22	2:C:976:ARG:N	2.29	0.47
2:C:1006:GLU:OE2	2:C:1007:LYS:N	2.47	0.47
2:C:1033:ARG:O	2:C:1036:ILE:HB	2.14	0.47
2:C:1080:ASN:CB	2:C:1085:MET:HE3	2.44	0.47
2:C:1144:PHE:HE1	2:C:1201:LEU:CD1	2.08	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1337:ILE:HA	3:D:22:ILE:HA	1.95	0.47
3:D:35:PHE:CE1	3:D:101:ARG:HB3	2.48	0.47
3:D:184:ALA:O	3:D:187:ALA:HB3	2.13	0.47
3:D:245:LEU:HD21	3:D:249:LEU:CD1	2.37	0.47
3:D:508:LEU:HD12	3:D:508:LEU:HA	1.45	0.47
3:D:655:SER:HA	3:D:658:GLU:HB2	1.94	0.47
3:D:679:TYR:HD2	3:D:680:ASN:N	2.13	0.47
3:D:872:LEU:HD22	3:D:877:VAL:CB	2.43	0.47
3:D:1137:GLY:O	3:D:1140:ARG:HB3	2.13	0.47
5:F:137:TYR:HB3	5:F:140:ALA:HB3	1.95	0.47
5:F:343:LYS:HA	5:F:346:GLN:OE1	2.14	0.47
1:G:11:PRO:HB3	1:G:30:PRO:O	2.14	0.47
2:I:216:THR:H	2:I:219:GLN:CD	2.17	0.47
2:I:402:ARG:HD2	2:I:406:ASN:ND2	2.29	0.47
2:I:557:ARG:NE	2:I:608:ALA:HA	2.29	0.47
2:I:619:ALA:CB	2:I:657:THR:HA	2.44	0.47
2:I:706:ARG:HG2	2:I:706:ARG:HH11	1.79	0.47
2:I:1010:GLN:O	2:I:1013:GLN:N	2.47	0.47
2:I:1023:HIS:O	2:I:1026:GLU:HB2	2.13	0.47
2:I:1143:GLU:CD	2:I:1147:ARG:HH11	2.17	0.47
3:J:107:LEU:HD12	3:J:240:THR:C	2.34	0.47
3:J:153:ASN:HB2	3:J:172:PHE:CE1	2.49	0.47
3:J:227:PHE:HE1	3:J:234:PRO:CD	2.27	0.47
3:J:372:MET:C	3:J:376:LEU:HD12	2.34	0.47
3:J:523:GLU:OE1	3:J:547:ARG:HD2	2.14	0.47
3:J:624:ILE:CA	3:J:627:THR:HG22	2.44	0.47
3:J:848:VAL:HB	3:J:858:VAL:HG13	1.95	0.47
3:J:1160:SER:HB2	3:J:1206:ARG:HG2	1.96	0.47
5:L:227:GLN:C	5:L:252:LEU:HD13	2.35	0.47
1:A:102:LEU:HD23	1:A:115:ILE:CA	2.40	0.47
1:B:26:VAL:N	1:B:203:ILE:O	2.42	0.47
1:B:81:ILE:O	1:B:84:ASN:N	2.48	0.47
1:B:192:VAL:O	1:B:193:GLU:C	2.51	0.47
1:B:248:GLU:HG3	1:B:249:PHE:H	1.77	0.47
2:C:53:PHE:CD2	2:C:70:TYR:CE1	3.02	0.47
2:C:272:ARG:HE	2:C:276:GLN:NE2	2.13	0.47
2:C:365:GLU:O	2:C:369:MET:N	2.44	0.47
2:C:398:SER:O	2:C:401:GLY:N	2.48	0.47
2:C:761:GLN:O	2:C:763:THR:HG22	2.14	0.47
2:C:865:LEU:HD23	2:C:865:LEU:HA	1.48	0.47
3:D:247:PRO:C	3:D:249:LEU:H	2.17	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:597:GLY:N	3:D:599:LYS:HE2	2.29	0.47
3:D:686:TRP:HB3	3:D:758:PRO:CG	2.44	0.47
3:D:1157:ALA:HB1	3:D:1206:ARG:HA	1.94	0.47
3:D:1196:LEU:HD22	3:D:1196:LEU:H	1.78	0.47
3:D:1372:ARG:HE	3:J:854:ALA:HB3	1.80	0.47
5:F:485:GLU:C	5:F:487:MET:N	2.67	0.47
1:G:57:THR:HB	1:G:145:LYS:HD3	1.96	0.47
1:G:73:GLY:C	1:G:134:THR:HG22	2.35	0.47
1:H:31:LEU:HD22	1:H:31:LEU:N	2.30	0.47
2:I:269:ILE:N	2:I:269:ILE:CD1	2.77	0.47
2:I:292:ILE:HB	2:I:322:LEU:HD11	1.95	0.47
2:I:448:LEU:HD11	2:I:554:HIS:ND1	2.29	0.47
2:I:473:ARG:O	2:I:477:GLU:HB2	2.15	0.47
2:I:676:ALA:HA	2:I:679:ALA:HB3	1.97	0.47
2:I:998:LEU:H	2:I:998:LEU:HD12	1.79	0.47
2:I:1253:LEU:C	2:I:1253:LEU:HD23	2.34	0.47
3:J:362:ARG:CZ	3:J:362:ARG:HB3	2.38	0.47
3:J:418:GLU:OE1	4:K:2:ALA:HA	2.14	0.47
3:J:583:VAL:HG12	3:J:587:LEU:HB2	1.95	0.47
3:J:734:ALA:HA	3:J:737:ILE:HG13	1.96	0.47
3:J:842:ARG:CB	3:J:882:VAL:HG11	2.45	0.47
3:J:865:HIS:HE1	3:J:868:TRP:H	1.58	0.47
3:J:867:GLN:O	3:J:869:CYS:N	2.47	0.47
3:J:929:GLN:O	3:J:1244:GLN:NE2	2.48	0.47
4:K:24:ALA:O	4:K:26:ARG:N	2.48	0.47
5:L:562:ARG:C	5:L:563:PHE:HD1	2.17	0.47
1:A:223:ILE:CD1	1:B:8:PHE:CE2	2.96	0.47
1:B:76:GLU:CB	1:B:80:GLU:HG2	2.44	0.47
1:B:104:LYS:O	1:B:140:ILE:HG23	2.15	0.47
2:C:56:VAL:HG11	2:C:468:LEU:HB3	1.97	0.47
2:C:672:GLU:HG3	2:C:1187:PHE:CD2	2.49	0.47
2:C:682:GLY:HA2	2:C:1071:GLY:CA	2.44	0.47
2:C:750:ILE:O	2:C:750:ILE:HG12	2.09	0.47
2:C:1105:SER:O	2:C:1107:MET:N	2.48	0.47
2:C:1109:ILE:CD1	3:D:644:MET:SD	3.02	0.47
2:C:1149:TYR:HD1	2:C:1159:VAL:CG1	2.24	0.47
2:C:1297:ASP:OD1	2:C:1300:GLY:CA	2.62	0.47
2:C:1305:TYR:CZ	3:D:379:PRO:HG3	2.47	0.47
2:C:1336:ASN:ND2	3:D:29:MET:HE1	2.29	0.47
3:D:37:GLU:HA	3:D:104:HIS:O	2.14	0.47
3:D:71:LEU:O	3:D:71:LEU:HD22	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:132:LEU:HD22	3:D:132:LEU:HA	1.49	0.47
3:D:332:LYS:C	3:D:334:LYS:N	2.67	0.47
3:D:436:ALA:HB2	3:D:484:MET:HB2	1.96	0.47
3:D:530:PRO:O	3:D:533:ALA:HB3	2.13	0.47
3:D:782:GLY:O	3:D:786:THR:HG23	2.14	0.47
3:D:1298:VAL:CB	3:D:1299:GLY:HA3	2.45	0.47
5:F:423:ARG:HG2	5:F:425:TYR:CE1	2.48	0.47
1:G:133:LEU:HA	1:G:133:LEU:HD13	1.33	0.47
1:G:151:GLY:H	1:G:177:TYR:HB2	1.76	0.47
1:H:33:ARG:NH1	2:I:1081:PRO:HG3	2.29	0.47
1:H:80:GLU:HG3	3:J:551:ARG:NH2	2.29	0.47
1:H:92:VAL:HG12	1:H:93:GLN:N	2.29	0.47
1:H:182:ARG:O	1:H:205:MET:HG3	2.14	0.47
2:I:1111:GLN:HB2	2:I:1230:MET:CE	2.45	0.47
2:I:1339:LEU:HD23	3:J:17:PHE:CD1	2.50	0.47
3:J:64:PRO:HB3	3:J:69:GLU:O	2.15	0.47
3:J:101:ARG:HG2	3:J:101:ARG:NH1	2.29	0.47
3:J:650:LYS:NZ	3:J:765:GLU:OE2	2.47	0.47
5:L:333:VAL:CG2	5:L:336:GLU:HB2	2.44	0.47
5:L:485:GLU:C	5:L:487:MET:N	2.68	0.47
1:B:35:PHE:N	1:B:35:PHE:HD1	2.11	0.47
1:B:79:LEU:H	1:B:79:LEU:CD2	2.21	0.47
1:B:110:VAL:O	1:B:130:ILE:HD12	2.14	0.47
2:C:90:VAL:CG1	2:C:91:THR:H	2.16	0.47
2:C:170:VAL:O	2:C:171:LEU:HD23	2.15	0.47
2:C:271:ALA:O	2:C:275:ARG:HG3	2.14	0.47
2:C:502:VAL:O	2:C:505:PHE:N	2.48	0.47
2:C:906:PHE:HZ	5:F:601:PRO:HG2	1.80	0.47
2:C:950:GLU:O	2:C:953:LEU:HB3	2.15	0.47
2:C:1214:ASP:OD1	2:C:1214:ASP:C	2.53	0.47
3:D:197:GLU:O	3:D:200:GLN:HB2	2.15	0.47
3:D:541:LEU:HA	3:D:541:LEU:HD23	1.30	0.47
5:F:489:MET:HA	5:F:490:PRO:HD2	1.65	0.47
1:G:38:THR:CA	1:H:45:ARG:HH11	2.27	0.47
1:H:226:GLU:OE1	1:H:226:GLU:CA	2.61	0.47
2:I:103:VAL:HG12	2:I:116:ASP:HA	1.97	0.47
2:I:143:ARG:HA	2:I:513:GLN:O	2.14	0.47
2:I:563:THR:CG2	2:I:564:PRO:N	2.78	0.47
3:J:75:TYR:CD2	3:J:83:VAL:HG21	2.50	0.47
3:J:339:ARG:HB3	3:J:340:GLN:HB2	1.92	0.47
3:J:426:ALA:CB	3:J:427:PRO:CD	2.90	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:592:VAL:HA	3:J:596:LEU:HD21	1.95	0.47
3:J:768:ASN:HD21	3:J:770:LEU:CD2	2.27	0.47
3:J:826:ILE:H	3:J:831:VAL:HA	1.78	0.47
3:J:1337:VAL:HG23	3:J:1338:ALA:N	2.30	0.47
3:J:1347:LEU:HD12	3:J:1347:LEU:N	2.30	0.47
5:L:137:TYR:CD1	5:L:138:PRO:HD2	2.48	0.47
5:L:144:LEU:O	5:L:148:TYR:N	2.41	0.47
5:L:215:GLU:CA	5:L:218:ARG:HD3	2.40	0.47
1:A:47:LEU:O	1:A:180:VAL:HG11	2.15	0.47
1:A:114:ASP:OD1	1:A:114:ASP:N	2.47	0.47
1:A:187:VAL:HG12	1:A:201:LEU:CD1	2.33	0.47
1:B:127:GLN:HG3	1:B:127:GLN:O	2.14	0.47
1:B:306:VAL:HA	1:B:309:SER:HB3	1.96	0.47
2:C:502:VAL:HG13	2:C:503:LYS:H	1.79	0.47
2:C:571:LEU:HA	2:C:571:LEU:HD23	1.50	0.47
2:C:933:VAL:HG22	2:C:1050:VAL:HG12	1.96	0.47
2:C:1166:ASP:O	2:C:1168:GLU:N	2.47	0.47
2:C:1192:GLU:OE2	3:D:764:ARG:HD3	2.15	0.47
2:C:1251:TYR:HB2	5:F:528:LEU:HD21	1.97	0.47
2:C:1323:PHE:CD1	2:C:1327:LEU:HD11	2.49	0.47
3:D:9:LYS:HG3	3:D:10:ALA:C	2.35	0.47
3:D:18:ASP:CG	3:D:1373:ARG:HH21	2.18	0.47
3:D:134:ASP:OD2	3:D:159:ILE:HD13	2.14	0.47
3:D:140:TYR:HB2	5:F:100:MET:HE2	1.97	0.47
3:D:198:CYS:HB3	3:D:202:ARG:NH2	2.30	0.47
3:D:204:GLU:HA	3:D:207:GLU:HB2	1.96	0.47
3:D:268:LEU:HB3	3:D:306:LEU:CD2	2.41	0.47
3:D:350:SER:HA	3:D:468:VAL:O	2.15	0.47
3:D:490:ILE:O	3:D:498:PRO:HA	2.14	0.47
3:D:506:VAL:HG13	3:D:507:VAL:N	2.29	0.47
3:D:584:PRO:HD2	3:D:587:LEU:HD13	1.95	0.47
3:D:782:GLY:O	3:D:785:ASP:N	2.48	0.47
3:D:794:GLY:O	3:D:797:THR:N	2.47	0.47
3:D:912:GLY:HA2	3:D:1363:TYR:CD1	2.50	0.47
3:D:930:LEU:HD12	3:D:1138:LEU:HD13	1.96	0.47
3:D:1241:TYR:CD2	3:D:1246:VAL:HG11	2.50	0.47
3:D:1307:LEU:CD1	3:D:1311:LYS:HB3	2.45	0.47
3:D:1352:ILE:HD11	8:D:2004:4C4:C8	2.40	0.47
1:G:79:LEU:HD22	1:G:79:LEU:HA	1.73	0.47
1:G:179:PRO:HA	1:G:208:ASN:ND2	2.30	0.47
1:H:62:ASP:OD1	1:H:63:GLY:N	2.46	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:64:VAL:HG12	1:H:66:HIS:HB2	1.96	0.47
2:I:5:TYR:HA	2:I:8:LYS:HD3	1.96	0.47
2:I:12:ARG:HH11	2:I:701:GLY:HA3	1.80	0.47
2:I:39:ILE:HD12	2:I:75:LEU:CG	2.44	0.47
2:I:325:LEU:HA	2:I:328:SER:HB3	1.96	0.47
2:I:460:ALA:O	2:I:461:GLU:C	2.53	0.47
2:I:614:TYR:N	2:I:614:TYR:HD2	2.13	0.47
2:I:849:GLU:HB2	2:I:851:THR:CG2	2.42	0.47
2:I:994:ARG:HD2	2:I:997:TRP:CZ3	2.49	0.47
2:I:1065:LYS:HE2	3:J:462:ASP:O	2.14	0.47
2:I:1213:TYR:CE1	2:I:1220:GLN:HB2	2.49	0.47
2:I:1214:ASP:N	2:I:1221:PHE:CE2	2.83	0.47
2:I:1267:GLY:HA3	3:J:347:VAL:O	2.14	0.47
2:I:1336:ASN:ND2	3:J:29:MET:CE	2.78	0.47
3:J:134:ASP:O	3:J:137:ARG:HB3	2.13	0.47
3:J:161:THR:N	3:J:164:GLN:OE1	2.30	0.47
3:J:224:LEU:O	3:J:226:ALA:N	2.48	0.47
3:J:454:CYS:O	3:J:458:ASN:N	2.48	0.47
3:J:495:ASN:O	3:J:495:ASN:ND2	2.48	0.47
3:J:527:LEU:O	3:J:550:VAL:HG12	2.15	0.47
3:J:537:TYR:O	3:J:539:SER:N	2.48	0.47
3:J:660:GLU:HA	3:J:663:GLU:HG3	1.97	0.47
3:J:665:GLN:O	3:J:669:GLN:HG3	2.15	0.47
3:J:709:ARG:HB3	3:J:714:GLU:OE1	2.15	0.47
3:J:843:VAL:O	3:J:883:ARG:HG3	2.14	0.47
3:J:903:LEU:HD23	3:J:905:ARG:CD	2.44	0.47
3:J:905:ARG:NH1	4:K:10:VAL:HG11	2.30	0.47
3:J:1149:ARG:HG2	3:J:1150:PRO:O	2.14	0.47
3:J:1265:THR:HG23	3:J:1305:ASP:OD2	2.14	0.47
5:L:141:ILE:HG13	5:L:256:PHE:HE1	1.80	0.47
5:L:238:LYS:HD3	5:L:242:HIS:HE1	1.80	0.47
5:L:384:LEU:N	5:L:384:LEU:HD23	2.30	0.47
5:L:408:GLY:HA2	5:L:439:ILE:HG22	1.97	0.47
5:L:519:LEU:O	5:L:521:ASP:N	2.47	0.47
1:A:36:GLY:CA	1:A:187:VAL:HG11	2.44	0.47
1:A:187:VAL:HG23	1:A:187:VAL:O	2.15	0.47
1:B:29:GLU:HB2	1:B:30:PRO:HA	1.96	0.47
1:B:268:ASN:HA	1:B:271:LYS:HB3	1.96	0.47
1:B:299:SER:O	1:B:303:ILE:HG12	2.14	0.47
2:C:168:GLY:O	2:C:170:VAL:N	2.43	0.47
2:C:461:GLU:O	2:C:464:PHE:N	2.48	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:463:GLN:HE22	2:C:501:ALA:CB	2.27	0.47
2:C:478:ARG:NH1	2:C:482:GLY:N	2.63	0.47
2:C:691:PRO:HB3	2:C:788:SER:OG	2.15	0.47
2:C:785:ASP:OD2	2:C:791:LEU:N	2.39	0.47
3:D:165:TYR:O	3:D:169:LEU:N	2.48	0.47
3:D:176:PHE:CD2	3:D:176:PHE:C	2.88	0.47
3:D:216:LYS:HA	3:D:219:LYS:HZ1	1.78	0.47
3:D:283:LEU:O	3:D:286:ALA:N	2.38	0.47
3:D:442:ILE:HA	3:D:442:ILE:HD13	1.54	0.47
3:D:860:ARG:HH11	3:D:860:ARG:HG3	1.80	0.47
3:D:1280:VAL:HG21	3:D:1304:ARG:NH2	2.30	0.47
5:F:476:ARG:C	5:F:477:GLU:HG2	2.35	0.47
5:F:511:ILE:HG23	5:F:512:GLY:H	1.80	0.47
1:G:83:LEU:N	1:G:83:LEU:CD1	2.78	0.47
2:I:198:ILE:HG22	2:I:199:ASP:OD1	2.15	0.47
2:I:555:TYR:CD1	2:I:637:ARG:NH2	2.83	0.47
2:I:607:SER:N	2:I:610:GLU:OE1	2.38	0.47
2:I:729:ALA:O	2:I:755:LYS:CE	2.63	0.47
2:I:768:MET:O	2:I:784:ALA:HB1	2.14	0.47
2:I:804:PHE:O	3:J:638:SER:HB2	2.14	0.47
3:J:265:LEU:HD11	3:J:330:MET:CE	2.20	0.47
3:J:270:ARG:CZ	5:L:449:THR:CG2	2.91	0.47
3:J:306:LEU:HD23	3:J:306:LEU:HA	1.69	0.47
3:J:377:PHE:HD1	3:J:380:PHE:HD1	1.58	0.47
3:J:425:ARG:HD2	3:J:458:ASN:O	2.15	0.47
3:J:857:LEU:CD1	3:J:858:VAL:HG13	2.44	0.47
3:J:1226:VAL:C	3:J:1228:ALA:N	2.68	0.47
5:L:238:LYS:HD3	5:L:238:LYS:HA	1.74	0.47
1:A:39:LEU:O	1:A:40:GLY:C	2.53	0.47
1:A:89:ALA:HB3	1:A:125:LYS:HD3	1.96	0.47
1:A:154:PRO:HG2	1:A:157:THR:OG1	2.15	0.47
1:A:182:ARG:NH1	1:A:206:GLU:OE1	2.48	0.47
1:B:55:ALA:HB2	1:B:176:CYS:O	2.15	0.47
2:C:61:SER:OG	2:C:66:SER:O	2.23	0.47
2:C:107:ARG:HA	2:C:108:GLU:HA	1.30	0.47
2:C:724:VAL:HG23	2:C:775:GLU:O	2.15	0.47
2:C:730:SER:O	2:C:753:LEU:HB2	2.15	0.47
2:C:756:TYR:CE1	2:C:766:ASN:ND2	2.80	0.47
2:C:950:GLU:HA	2:C:953:LEU:HB3	1.97	0.47
2:C:1104:PRO:CG	3:D:725:MET:SD	3.02	0.47
3:D:26:SER:HG	3:D:29:MET:H	1.58	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:97:VAL:CG1	3:D:101:ARG:CZ	2.84	0.47
3:D:361:LEU:CD2	3:D:366:CYS:HA	2.43	0.47
3:D:657:ALA:O	3:D:661:VAL:HG13	2.14	0.47
3:D:1204:VAL:O	3:D:1204:VAL:HG23	2.14	0.47
3:D:1223:LEU:HD22	3:D:1223:LEU:N	2.30	0.47
5:F:108:VAL:HG23	5:F:109:GLU:H	1.79	0.47
5:F:402:LEU:H	5:F:402:LEU:CD2	2.27	0.47
5:F:562:ARG:C	5:F:563:PHE:CD1	2.89	0.47
1:G:38:THR:HA	1:H:45:ARG:HH11	1.80	0.47
1:G:79:LEU:HD13	1:G:83:LEU:CD1	2.45	0.47
1:H:43:LEU:HA	1:H:43:LEU:HD12	1.28	0.47
2:I:452:ARG:HH11	2:I:452:ARG:CG	2.12	0.47
2:I:559:CYS:SG	2:I:662:SER:N	2.88	0.47
2:I:797:GLY:HA3	2:I:1232:MET:O	2.15	0.47
2:I:1151:LEU:C	2:I:1151:LEU:HD13	2.36	0.47
3:J:210:SER:HB2	3:J:213:LYS:HG3	1.96	0.47
3:J:339:ARG:HD2	3:J:340:GLN:HG3	1.96	0.47
3:J:578:ILE:O	3:J:581:MET:HB2	2.15	0.47
3:J:698:MET:O	3:J:702:GLN:CB	2.61	0.47
3:J:844:THR:HG23	3:J:864:LEU:CD2	2.41	0.47
3:J:862:THR:O	3:J:864:LEU:HD23	2.15	0.47
3:J:1236:GLU:O	3:J:1239:ASP:HB2	2.15	0.47
5:L:111:LEU:HD23	5:L:111:LEU:HA	1.62	0.47
5:L:254:GLU:OE1	5:L:254:GLU:HA	2.15	0.47
5:L:289:LYS:HB3	5:L:289:LYS:HE2	1.72	0.47
5:L:448:ARG:CD	5:L:450:ILE:HG13	2.34	0.47
1:A:48:LEU:HD23	1:A:48:LEU:HA	1.53	0.47
1:A:166:ARG:HD2	1:A:166:ARG:C	2.35	0.47
1:A:195:ARG:HD2	1:A:196:THR:H	1.80	0.47
1:B:62:ASP:HB3	1:B:142:MET:CE	2.45	0.47
1:B:85:LEU:C	1:B:87:GLY:N	2.68	0.47
1:B:246:LYS:HE3	1:B:246:LYS:HB3	1.62	0.47
2:C:100:LEU:HD23	2:C:100:LEU:HA	1.73	0.47
2:C:332:ARG:C	2:C:333:ILE:HD12	2.35	0.47
2:C:759:SER:CB	2:C:763:THR:HG23	2.44	0.47
2:C:819:SER:C	2:C:821:ARG:N	2.68	0.47
3:D:35:PHE:CE1	3:D:101:ARG:CD	2.92	0.47
3:D:56:LEU:HD23	3:D:269:TYR:HB3	1.96	0.47
3:D:160:LEU:HD22	3:D:164:GLN:HB3	1.97	0.47
3:D:385:LEU:HD21	3:D:411:ILE:HG13	1.96	0.47
3:D:527:LEU:HD22	3:D:533:ALA:HA	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:674:THR:OG1	3:D:677:GLU:HB2	2.15	0.47
3:D:795:TYR:HA	3:D:798:ARG:CZ	2.45	0.47
3:D:817:HIS:O	3:D:845:ALA:HB1	2.15	0.47
3:D:847:ASP:HA	3:D:860:ARG:H	1.78	0.47
3:D:1225:GLY:O	3:D:1229:VAL:HG12	2.15	0.47
4:E:9:ALA:HB2	4:E:55:GLU:HG3	1.96	0.47
5:F:230:VAL:HG13	5:F:231:THR:N	2.30	0.47
5:F:240:ARG:O	5:F:242:HIS:N	2.48	0.47
5:F:548:LEU:HA	5:F:551:LEU:HD12	1.97	0.47
1:H:101:THR:HG23	1:H:116:THR:CB	2.44	0.47
2:I:525:THR:HG21	2:I:687:ARG:HD3	1.98	0.47
2:I:670:PHE:CE2	2:I:1113:LEU:HB3	2.49	0.47
2:I:1128:ILE:HD13	2:I:1145:ILE:HD11	1.96	0.47
2:I:1210:ILE:HG22	2:I:1211:ARG:H	1.77	0.47
2:I:1234:LYS:HE2	2:I:1238:LEU:CD2	2.42	0.47
2:I:1280:ALA:HB3	3:J:431:ARG:HB2	1.97	0.47
3:J:155:GLU:HB2	3:J:158:GLN:HB2	1.96	0.47
3:J:474:LEU:HD13	3:J:474:LEU:HA	1.61	0.47
3:J:648:GLU:HG3	3:J:649:LYS:N	2.29	0.47
3:J:824:PRO:HD3	3:J:835:LEU:HD22	1.96	0.47
3:J:1167:LYS:HD3	3:J:1174:ARG:HD2	1.96	0.47
5:L:264:LYS:HD2	5:L:264:LYS:H	1.79	0.47
1:A:108:GLY:HA2	1:A:109:PRO:HD3	1.59	0.46
1:B:52:PRO:CD	1:B:150:ARG:HG2	2.44	0.46
1:B:63:GLY:N	1:B:71:LYS:HZ1	2.13	0.46
2:C:268:ARG:HH21	2:C:270:THR:CG2	2.28	0.46
2:C:285:ILE:CD1	2:C:287:VAL:HG12	2.43	0.46
2:C:830:THR:HG22	2:C:1234:LYS:NZ	2.31	0.46
2:C:1088:ASP:OD2	2:C:1092:THR:OG1	2.34	0.46
2:C:1191:LYS:HZ2	2:C:1193:ALA:HB2	1.80	0.46
2:C:1327:LEU:HD12	2:C:1327:LEU:N	2.28	0.46
2:C:1335:ILE:HD12	3:D:1336:ALA:CB	2.45	0.46
3:D:34:SER:HB2	3:D:103:GLY:O	2.15	0.46
3:D:256:ASP:C	3:D:258:GLY:H	2.18	0.46
3:D:487:THR:OG1	3:D:488:ASN:OD1	2.30	0.46
3:D:491:LEU:O	3:D:904:ALA:CB	2.64	0.46
3:D:842:ARG:NH2	3:D:884:SER:CB	2.77	0.46
5:F:108:VAL:HA	5:F:385:ARG:NH1	2.30	0.46
5:F:286:LEU:O	5:F:290:LEU:HG	2.14	0.46
5:F:379:MET:HE2	5:F:379:MET:O	2.15	0.46
1:G:90:VAL:HG22	1:G:91:ARG:H	1.80	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:16:ILE:HG23	1:H:16:ILE:O	2.15	0.46
1:H:47:LEU:HD12	1:H:183:ILE:HG21	1.96	0.46
1:H:69:SER:H	1:H:78:ILE:HD12	1.78	0.46
1:H:102:LEU:HD22	1:H:103:ASN:N	2.30	0.46
2:I:540:ARG:HE	2:I:568:ASN:HB3	1.80	0.46
2:I:600:THR:HG22	2:I:601:ASP:N	2.30	0.46
2:I:638:SER:O	2:I:640:GLY:N	2.43	0.46
2:I:688:GLN:C	2:I:1235:LEU:HD22	2.35	0.46
2:I:692:THR:HG23	2:I:694:ARG:O	2.14	0.46
2:I:693:LEU:HD23	2:I:693:LEU:C	2.35	0.46
2:I:769:PRO:HA	2:I:784:ALA:HB2	1.97	0.46
2:I:1243:MET:SD	3:J:445:LYS:HG2	2.55	0.46
3:J:891:ASP:CG	3:J:1284:ARG:HG2	2.35	0.46
3:J:1169:THR:HG22	3:J:1169:THR:O	2.15	0.46
3:J:1191:PRO:C	3:J:1193:TRP:N	2.68	0.46
3:J:1238:GLN:HB2	3:J:1242:ARG:HH21	1.80	0.46
5:L:143:TYR:CE1	5:L:147:GLN:HG3	2.50	0.46
5:L:297:MET:HG3	5:L:326:TRP:CZ3	2.50	0.46
5:L:312:SER:OG	5:L:313:ASP:N	2.49	0.46
1:A:13:LEU:HG	1:A:13:LEU:O	2.15	0.46
1:A:36:GLY:CA	1:A:201:LEU:HD22	2.46	0.46
1:A:102:LEU:HD11	1:A:110:VAL:HG11	1.97	0.46
1:B:116:THR:HG23	1:B:116:THR:O	2.15	0.46
1:B:264:VAL:HA	1:B:267:ALA:CB	2.45	0.46
2:C:176:ILE:HB	2:C:184:LEU:HB3	1.95	0.46
2:C:180:ARG:CZ	2:C:465:ARG:NH1	2.77	0.46
2:C:563:THR:HG21	2:C:569:ILE:CG2	2.45	0.46
2:C:857:VAL:HG23	2:C:861:ALA:HB3	1.97	0.46
2:C:989:LEU:O	2:C:989:LEU:HD12	2.15	0.46
2:C:1118:GLY:O	2:C:1121:ALA:HB3	2.14	0.46
2:C:1160:ASP:CB	2:C:1161:LEU:HD12	2.43	0.46
3:D:18:ASP:CB	3:D:1373:ARG:NH2	2.72	0.46
3:D:227:PHE:CD1	3:D:227:PHE:C	2.87	0.46
3:D:265:LEU:HD11	3:D:330:MET:SD	2.55	0.46
3:D:279:LEU:HD23	3:D:280:LYS:N	2.29	0.46
3:D:322:ARG:CG	3:D:323:PRO:HD2	2.42	0.46
3:D:802:ASP:O	3:D:1325:PHE:CE2	2.68	0.46
3:D:1146:GLU:HB3	3:D:1148:ARG:HG3	1.98	0.46
5:F:117:ILE:O	5:F:120:ALA:N	2.48	0.46
5:F:398:GLY:O	5:F:447:ALA:HB1	2.15	0.46
1:G:166:ARG:NH1	1:G:167:PRO:HA	2.30	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:25:LYS:HE3	1:H:202:VAL:CG1	2.45	0.46
2:I:28:LEU:CD2	2:I:527:LYS:HD2	2.46	0.46
2:I:230:PHE:CD1	2:I:239:MET:HB2	2.51	0.46
2:I:289:VAL:HG22	2:I:322:LEU:CD1	2.45	0.46
2:I:289:VAL:CG1	2:I:319:LEU:HD11	2.38	0.46
2:I:490:GLN:HG3	5:L:472:GLN:HB3	1.97	0.46
2:I:517:GLN:NE2	2:I:759:SER:HA	2.30	0.46
2:I:933:VAL:HG22	2:I:1050:VAL:CG1	2.45	0.46
2:I:1289:GLU:OE2	3:J:472:LEU:HB2	2.15	0.46
3:J:24:LEU:HD23	3:J:1337:VAL:HA	1.96	0.46
3:J:37:GLU:HG3	3:J:105:ILE:HA	1.97	0.46
3:J:53:ARG:HA	3:J:54:ASP:HA	1.63	0.46
3:J:146:VAL:CG1	3:J:149:GLY:CA	2.93	0.46
3:J:150:GLY:O	3:J:152:THR:N	2.48	0.46
3:J:357:VAL:HG22	3:J:461:PHE:HE1	1.79	0.46
3:J:362:ARG:N	3:J:365:GLN:HE21	2.12	0.46
3:J:514:THR:HG1	3:J:595:ALA:C	2.17	0.46
3:J:536:LEU:O	3:J:539:SER:OG	2.33	0.46
3:J:686:TRP:O	3:J:689:ALA:N	2.49	0.46
3:J:742:GLY:O	3:J:762:ASN:HB3	2.15	0.46
3:J:770:LEU:O	3:J:774:ILE:HG13	2.16	0.46
3:J:809:VAL:HG12	3:J:911:LYS:HA	1.96	0.46
4:K:51:LEU:O	4:K:54:ILE:N	2.48	0.46
4:K:53:GLU:OE1	4:K:59:ILE:HG13	2.14	0.46
5:L:348:GLU:OE2	5:L:355:ILE:HG12	2.15	0.46
2:C:147:SER:O	2:C:530:ILE:HA	2.15	0.46
2:C:312:ALA:HB3	2:C:315:MET:HE1	1.96	0.46
2:C:487:LEU:HD23	2:C:487:LEU:C	2.35	0.46
2:C:558:VAL:O	2:C:576:SER:OG	2.34	0.46
2:C:633:LEU:N	2:C:633:LEU:HD23	2.30	0.46
2:C:673:HIS:HB3	2:C:1109:ILE:CG2	2.44	0.46
2:C:757:THR:OG1	2:C:758:ARG:N	2.47	0.46
2:C:994:ARG:HA	2:C:997:TRP:CE2	2.50	0.46
2:C:1211:ARG:O	2:C:1211:ARG:HG3	2.16	0.46
2:C:1217:THR:OG1	2:C:1219:GLU:CG	2.51	0.46
2:C:1237:HIS:ND1	2:C:1237:HIS:N	2.64	0.46
3:D:77:ARG:C	3:D:79:LYS:N	2.67	0.46
3:D:115:TRP:HB3	3:D:1333:THR:HG23	1.98	0.46
3:D:278:ARG:O	3:D:281:ARG:HB3	2.14	0.46
3:D:339:ARG:CB	3:D:340:GLN:CB	2.93	0.46
3:D:353:SER:O	3:D:465:GLN:HB3	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:544:LEU:HD13	3:D:575:GLY:HA3	1.95	0.46
3:D:880:VAL:HG12	3:D:882:VAL:CG2	2.45	0.46
3:D:1171:GLY:O	3:D:1193:TRP:CZ3	2.68	0.46
1:H:60:GLU:HG3	1:H:143:ARG:O	2.15	0.46
1:H:67:GLU:HA	1:H:78:ILE:HG21	1.98	0.46
2:I:160:ASP:HB3	2:I:164:THR:CG2	2.44	0.46
2:I:298:ALA:HB3	2:I:334:GLU:HB3	1.98	0.46
2:I:318:SER:H	2:I:321:LEU:CD1	2.22	0.46
2:I:520:PRO:O	2:I:523:GLU:HB2	2.14	0.46
2:I:844:LYS:H	2:I:844:LYS:HG2	1.39	0.46
2:I:865:LEU:HD13	2:I:869:GLY:HA2	1.97	0.46
2:I:1239:VAL:HG21	3:J:445:LYS:HB2	1.97	0.46
3:J:139:LEU:HA	3:J:139:LEU:HD23	1.70	0.46
3:J:449:LEU:HD12	3:J:449:LEU:HA	1.20	0.46
3:J:820:ILE:O	3:J:881:LYS:HA	2.15	0.46
4:K:7:GLN:NE2	4:K:11:GLU:HG2	2.31	0.46
4:K:77:ALA:C	4:K:79:GLU:H	2.19	0.46
5:L:453:PRO:HB2	5:L:456:MET:HB2	1.96	0.46
5:L:460:ILE:O	5:L:463:LEU:HB2	2.15	0.46
1:A:152:TYR:CD1	2:C:824:GLN:CG	2.96	0.46
1:A:166:ARG:O	1:A:167:PRO:C	2.53	0.46
2:C:106:GLU:O	2:C:109:ALA:HB2	2.14	0.46
2:C:641:GLU:OE2	3:D:749:LYS:NZ	2.39	0.46
2:C:665:ALA:C	2:C:667:LEU:N	2.67	0.46
2:C:805:MET:CE	2:C:1221:PHE:CE1	2.98	0.46
2:C:901:LEU:HD12	2:C:901:LEU:O	2.15	0.46
2:C:903:ARG:CZ	2:C:910:ALA:HB2	2.45	0.46
2:C:971:LEU:HD11	2:C:1014:LEU:O	2.15	0.46
3:D:34:SER:HB2	3:D:104:HIS:HB3	1.97	0.46
3:D:63:GLY:CA	3:D:98:ARG:HG3	2.45	0.46
3:D:221:ILE:O	3:D:224:LEU:N	2.48	0.46
3:D:506:VAL:HG23	3:D:628:GLY:CA	2.36	0.46
3:D:544:LEU:O	3:D:575:GLY:N	2.42	0.46
3:D:573:THR:OG1	3:D:574:VAL:N	2.47	0.46
3:D:597:GLY:H	3:D:599:LYS:HE2	1.80	0.46
3:D:1350:ASN:OD1	3:D:1355:ARG:HD2	2.14	0.46
5:F:576:VAL:C	5:F:577:GLY:O	2.51	0.46
1:G:103:ASN:OD1	1:G:141:SER:HB2	2.16	0.46
1:H:59:VAL:HG22	1:H:144:ILE:HB	1.96	0.46
1:H:107:ILE:H	1:H:107:ILE:HG13	1.42	0.46
2:I:386:GLU:O	2:I:390:PHE:HB2	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:529:ARG:C	2:I:530:ILE:HG12	2.36	0.46
2:I:810:TYR:CD2	3:J:359:PRO:HG2	2.50	0.46
2:I:849:GLU:HB3	2:I:851:THR:HG22	1.95	0.46
2:I:1082:ILE:HD12	2:I:1082:ILE:N	2.24	0.46
2:I:1281:TYR:HE1	3:J:484:MET:HE2	1.80	0.46
3:J:288:PRO:HG2	3:J:291:ILE:CG1	2.45	0.46
3:J:814:CYS:SG	3:J:889:ASP:HB3	2.55	0.46
3:J:843:VAL:HG11	3:J:897:HIS:O	2.16	0.46
3:J:1155:ILE:HD12	3:J:1155:ILE:N	2.31	0.46
3:J:1241:TYR:HD1	3:J:1241:TYR:N	2.11	0.46
3:J:1313:SER:C	3:J:1315:ALA:H	2.18	0.46
5:L:344:LEU:HG	5:L:355:ILE:HG13	1.97	0.46
1:B:186:ASN:O	1:B:201:LEU:HD12	2.16	0.46
2:C:53:PHE:CE1	2:C:464:PHE:HE2	2.33	0.46
2:C:180:ARG:HG2	2:C:181:GLY:N	2.30	0.46
2:C:243:PRO:CB	2:C:278:GLU:CG	2.86	0.46
2:C:342:ASP:HB3	2:C:343:HIS:CD2	2.51	0.46
2:C:1069:ARG:NH2	2:C:1231:TYR:HB3	2.31	0.46
2:C:1120:ALA:CB	2:C:1198:LEU:HD12	2.45	0.46
2:C:1274:GLU:OE1	2:C:1274:GLU:N	2.47	0.46
3:D:256:ASP:C	3:D:258:GLY:N	2.69	0.46
3:D:294:ASN:ND2	5:F:406:GLN:NE2	2.64	0.46
3:D:449:LEU:HD12	3:D:449:LEU:HA	1.29	0.46
3:D:695:LYS:HA	3:D:695:LYS:HD3	1.52	0.46
3:D:747:MET:HA	3:D:747:MET:HE3	1.98	0.46
5:F:105:MET:O	5:F:105:MET:HG2	2.15	0.46
1:H:125:LYS:HD3	1:H:128:HIS:HB2	1.96	0.46
2:I:117:ILE:HD12	2:I:488:MET:HG2	1.97	0.46
2:I:670:PHE:HA	2:I:672:GLU:OE2	2.15	0.46
2:I:673:HIS:CE1	3:J:766:GLY:HA2	2.50	0.46
2:I:750:ILE:O	2:I:750:ILE:HG12	2.11	0.46
2:I:1144:PHE:HE1	2:I:1201:LEU:CD1	2.28	0.46
2:I:1164:PHE:C	2:I:1166:ASP:N	2.67	0.46
2:I:1238:LEU:HD12	2:I:1238:LEU:N	2.18	0.46
3:J:134:ASP:HA	3:J:137:ARG:CB	2.45	0.46
3:J:390:LEU:HD12	3:J:390:LEU:H	1.80	0.46
3:J:572:THR:CG2	3:J:573:THR:N	2.78	0.46
3:J:666:GLU:HA	3:J:669:GLN:HB2	1.98	0.46
3:J:739:GLN:HB3	3:J:763:PHE:CE2	2.50	0.46
3:J:1240:VAL:O	3:J:1243:LEU:HB3	2.15	0.46
5:L:343:LYS:HE3	5:L:343:LYS:HB2	1.43	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:102:LEU:HD22	1:A:103:ASN:H	1.80	0.46
1:B:224:LEU:O	1:B:227:GLN:N	2.47	0.46
2:C:22:LEU:HD13	2:C:22:LEU:C	2.36	0.46
2:C:103:VAL:C	2:C:104:ILE:HD12	2.35	0.46
2:C:157:PHE:C	2:C:442:VAL:HG12	2.36	0.46
2:C:195:PHE:CD1	2:C:203:LYS:CD	2.99	0.46
2:C:243:PRO:CB	2:C:278:GLU:HG3	2.35	0.46
2:C:289:VAL:O	2:C:289:VAL:HG22	2.15	0.46
2:C:530:ILE:O	2:C:572:ILE:O	2.34	0.46
2:C:1109:ILE:HD11	3:D:644:MET:SD	2.55	0.46
2:C:1258:PRO:HB2	3:D:346:ARG:HB3	1.98	0.46
2:C:1272:GLU:HB2	3:D:342:LEU:CD1	2.27	0.46
2:C:1323:PHE:HD2	3:D:1352:ILE:HG22	1.79	0.46
3:D:130:MET:HE1	3:D:135:ILE:HG12	1.97	0.46
3:D:146:VAL:O	3:D:147:ILE:HG23	2.16	0.46
3:D:232:ASN:HA	3:D:236:TRP:HZ3	1.80	0.46
3:D:412:LEU:HD23	3:D:412:LEU:C	2.35	0.46
3:D:478:LEU:HD21	4:E:47:THR:HG23	1.96	0.46
3:D:515:ARG:HG3	3:D:516:ASP:H	1.78	0.46
3:D:570:LYS:HE2	3:D:589:TYR:HB3	1.97	0.46
3:D:589:TYR:C	3:D:591:ILE:H	2.18	0.46
3:D:678:ARG:O	3:D:681:LYS:HB3	2.15	0.46
3:D:814:CYS:N	3:D:895:CYS:CB	2.77	0.46
3:D:1162:ILE:HG23	3:D:1178:THR:O	2.15	0.46
5:F:238:LYS:HD3	5:F:238:LYS:HA	1.75	0.46
5:F:279:ARG:C	5:F:282:THR:HB	2.36	0.46
5:F:343:LYS:HB2	5:F:343:LYS:HE3	1.37	0.46
5:F:575:GLU:N	5:F:578:LYS:HE3	2.31	0.46
5:F:587:ILE:HD12	5:F:590:ILE:CB	2.40	0.46
1:G:108:GLY:HA2	1:G:109:PRO:HD3	1.68	0.46
1:H:89:ALA:HB3	1:H:124:VAL:HG12	1.97	0.46
1:H:95:LYS:NZ	1:H:98:VAL:HG23	2.31	0.46
2:I:545:PHE:CE2	2:I:549:ASP:HB2	2.50	0.46
2:I:839:VAL:O	2:I:839:VAL:HG23	2.16	0.46
2:I:994:ARG:HA	2:I:997:TRP:CD2	2.51	0.46
3:J:41:PRO:HD2	3:J:42:GLU:OE1	2.16	0.46
3:J:99:ARG:HG3	3:J:249:LEU:CD2	2.45	0.46
3:J:252:LEU:HD23	3:J:262:THR:OG1	2.15	0.46
3:J:382:TYR:CG	3:J:394:ILE:HD13	2.50	0.46
3:J:499:ILE:HD12	3:J:499:ILE:HA	1.58	0.46
3:J:613:GLY:O	3:J:616:PRO:HD2	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:762:ASN:OD1	3:J:765:GLU:HG3	2.15	0.46
3:J:1330:ARG:NH1	3:J:1330:ARG:HG2	2.31	0.46
3:J:1344:LEU:HD11	3:J:1355:ARG:NH1	2.30	0.46
5:L:224:LEU:HA	5:L:255:VAL:CG1	2.40	0.46
5:L:366:SER:O	5:L:369:GLU:HB2	2.16	0.46
5:L:517:SER:C	5:L:518:HIS:HD1	2.17	0.46
5:L:540:LEU:HA	5:L:540:LEU:HD12	1.11	0.46
1:A:86:LYS:HG2	1:A:86:LYS:O	2.15	0.46
1:B:101:THR:O	1:B:116:THR:CG2	2.64	0.46
1:B:202:VAL:O	1:B:203:ILE:HD12	2.15	0.46
1:B:292:THR:O	1:B:294:ASN:N	2.48	0.46
2:C:388:LEU:HA	2:C:388:LEU:HD23	1.64	0.46
2:C:796:LEU:HD12	2:C:796:LEU:N	2.30	0.46
2:C:903:ARG:O	2:C:905:ILE:N	2.48	0.46
2:C:960:LEU:HD11	2:C:1028:LYS:NZ	2.31	0.46
2:C:1259:LEU:HG	2:C:1260:GLY:N	2.30	0.46
2:C:1287:LEU:HD22	3:D:1357:ILE:HD11	1.98	0.46
3:D:80:HIS:HB3	3:D:83:VAL:CG1	2.31	0.46
3:D:211:GLU:OE2	3:D:214:ARG:NH1	2.49	0.46
3:D:279:LEU:CB	3:D:295:GLU:HG2	2.43	0.46
3:D:603:LYS:O	3:D:607:THR:OG1	2.30	0.46
3:D:620:PHE:O	3:D:624:ILE:HG13	2.16	0.46
3:D:1157:ALA:HB3	3:D:1206:ARG:HA	1.96	0.46
4:E:25:ARG:HH11	4:E:64:LEU:HD12	1.81	0.46
5:F:144:LEU:HD12	5:F:144:LEU:O	2.16	0.46
1:G:64:VAL:HG11	1:G:78:ILE:HG13	1.97	0.46
2:I:131:THR:HG22	2:I:132:ASP:H	1.81	0.46
2:I:136:PHE:CE2	2:I:506:PHE:HE2	2.34	0.46
2:I:531:SER:C	2:I:533:LEU:H	2.19	0.46
2:I:534:GLY:HA3	2:I:535:PRO:HD2	1.66	0.46
2:I:804:PHE:CE1	2:I:1098:LEU:HD23	2.51	0.46
2:I:972:PHE:HE2	2:I:998:LEU:HD11	1.76	0.46
2:I:1134:GLN:C	2:I:1135:GLN:HG2	2.35	0.46
3:J:132:LEU:HD22	3:J:132:LEU:HA	1.62	0.46
3:J:291:ILE:HG23	5:L:406:GLN:NE2	2.31	0.46
3:J:368:LEU:HA	3:J:369:PRO:HD3	1.72	0.46
3:J:810:THR:CG2	3:J:894:VAL:H	2.28	0.46
3:J:921:GLN:O	3:J:924:GLY:N	2.46	0.46
3:J:1233:ILE:HG21	3:J:1257:VAL:CG2	2.45	0.46
3:J:1251:LYS:HZ3	3:J:1251:LYS:HG3	1.56	0.46
3:J:1285:VAL:HG12	3:J:1286:LYS:HD3	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:1298:VAL:HG22	3:J:1298:VAL:O	2.15	0.46
5:L:276:MET:SD	5:L:347:ILE:HG23	2.56	0.46
5:L:511:ILE:HG23	5:L:512:GLY:H	1.80	0.46
5:L:557:LYS:O	5:L:561:MET:HE3	2.16	0.46
1:A:57:THR:HG22	1:A:58:GLU:HG3	1.98	0.46
1:B:97:GLU:HB3	1:B:145:LYS:HZ1	1.80	0.46
2:C:306:THR:OG1	2:C:308:GLU:HB2	2.16	0.46
2:C:314:ASN:O	2:C:314:ASN:ND2	2.48	0.46
2:C:494:ASN:HD21	2:C:496:LYS:HZ2	1.63	0.46
2:C:521:LEU:HA	2:C:521:LEU:HD22	1.51	0.46
2:C:543:ALA:HB1	2:C:547:VAL:HG22	1.97	0.46
2:C:817:LEU:HD21	2:C:1085:MET:HE2	1.96	0.46
2:C:822:VAL:HG12	2:C:823:VAL:N	2.31	0.46
2:C:870:ILE:CG2	2:C:871:VAL:N	2.79	0.46
2:C:898:GLU:H	2:C:898:GLU:CD	2.11	0.46
2:C:942:ASP:O	2:C:946:LEU:HD12	2.16	0.46
3:D:71:LEU:CB	3:D:90:VAL:HG21	2.46	0.46
3:D:549:LYS:HG2	3:D:571:ASP:CG	2.36	0.46
3:D:567:THR:CG2	3:D:568:SER:N	2.79	0.46
3:D:850:LYS:HG3	3:D:855:ASP:CB	2.46	0.46
3:D:866:GLU:O	3:D:869:CYS:HB2	2.15	0.46
3:D:1171:GLY:O	3:D:1193:TRP:HZ3	1.99	0.46
3:D:1183:SER:HA	3:J:206:ASN:HD21	1.81	0.46
3:D:1184:ASP:N	3:D:1185:PRO:CD	2.76	0.46
3:D:1352:ILE:CD1	8:D:2004:4C4:C7	2.93	0.46
5:F:134:VAL:C	5:F:136:GLU:N	2.68	0.46
5:F:606:VAL:C	5:F:608:ARG:H	2.18	0.46
1:G:28:LEU:HD12	1:G:28:LEU:N	2.31	0.46
1:G:127:GLN:H	1:G:127:GLN:CD	2.18	0.46
1:G:152:TYR:HA	1:G:175:ALA:O	2.16	0.46
1:G:219:ARG:O	1:G:222:THR:HB	2.15	0.46
1:H:47:LEU:HD12	1:H:183:ILE:CG2	2.45	0.46
2:I:45:GLY:O	2:I:51:ALA:HB2	2.16	0.46
2:I:174:ALA:O	2:I:186:PHE:N	2.44	0.46
2:I:179:TYR:O	2:I:179:TYR:CD1	2.69	0.46
2:I:272:ARG:O	2:I:276:GLN:HG3	2.15	0.46
2:I:297:VAL:HG12	2:I:315:MET:O	2.16	0.46
2:I:399:ALA:O	2:I:403:MET:HB2	2.16	0.46
2:I:739:ASP:OD1	2:I:739:ASP:N	2.47	0.46
2:I:798:GLN:HG3	2:I:828:PHE:CD1	2.51	0.46
2:I:799:ASN:HD22	2:I:799:ASN:C	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:885:GLY:HA2	2:I:917:SER:CB	2.42	0.46
2:I:1061:GLN:HB2	2:I:1062:PRO:HD2	1.98	0.46
2:I:1104:PRO:HB2	3:J:732:GLY:HA2	1.97	0.46
2:I:1120:ALA:HA	2:I:1204:LEU:HD12	1.97	0.46
3:J:147:ILE:HG22	3:J:188:LEU:HG	1.98	0.46
3:J:154:LEU:HD12	3:J:154:LEU:N	2.31	0.46
3:J:812:ASP:HB2	3:J:911:LYS:HE3	1.97	0.46
3:J:903:LEU:CD2	3:J:905:ARG:HG3	2.46	0.46
3:J:917:VAL:O	3:J:920:ALA:N	2.49	0.46
3:J:1167:LYS:HD3	3:J:1174:ARG:HH11	1.80	0.46
3:J:1332:LEU:HD22	3:J:1332:LEU:N	2.29	0.46
4:K:56:GLU:HB2	4:K:58:LEU:HG	1.98	0.46
4:K:58:LEU:CD1	4:K:59:ILE:HG12	2.46	0.46
5:L:223:GLU:O	5:L:226:ALA:HB3	2.16	0.46
1:A:46:ILE:HD13	1:A:46:ILE:N	2.31	0.46
1:A:78:ILE:O	1:A:81:ILE:N	2.49	0.46
1:B:38:THR:HG23	1:B:39:LEU:N	2.31	0.46
1:B:82:LEU:HA	1:B:82:LEU:HD23	1.60	0.46
1:B:101:THR:HA	1:B:143:ARG:HA	1.97	0.46
2:C:169:LYS:CE	2:C:190:PRO:HA	2.44	0.46
2:C:325:LEU:O	2:C:330:HIS:HB2	2.15	0.46
2:C:358:ASP:OD1	2:C:360:LEU:N	2.48	0.46
2:C:363:LEU:O	2:C:381:ALA:HB1	2.15	0.46
2:C:562:GLU:OE2	2:C:662:SER:HB2	2.15	0.46
2:C:582:ASN:CB	2:C:586:PHE:N	2.79	0.46
2:C:698:PRO:HA	2:C:1231:TYR:CD1	2.51	0.46
2:C:809:GLY:HA2	3:D:629:PHE:CE1	2.51	0.46
2:C:1043:ALA:O	2:C:1046:VAL:CG1	2.64	0.46
2:C:1078:LYS:CG	2:C:1079:ILE:N	2.78	0.46
2:C:1146:GLN:HE21	2:C:1146:GLN:C	2.13	0.46
3:D:24:LEU:HD22	3:D:24:LEU:N	2.31	0.46
3:D:224:LEU:HD12	3:D:224:LEU:H	1.81	0.46
3:D:697:MET:O	3:D:701:LEU:N	2.28	0.46
3:D:824:PRO:HB3	3:D:835:LEU:CB	2.44	0.46
3:D:856:ILE:O	3:D:856:ILE:HG22	2.16	0.46
3:D:1172:LYS:HZ1	3:D:1191:PRO:HG3	1.80	0.46
3:D:1321:SER:C	3:D:1325:PHE:CE1	2.89	0.46
5:F:433:TRP:HZ3	5:F:434:TRP:CZ2	2.33	0.46
1:G:102:LEU:HB3	1:G:142:MET:HG2	1.97	0.46
1:H:136:GLU:CD	1:H:137:ASN:H	2.19	0.46
2:I:14:ASP:OD1	2:I:15:PHE:N	2.49	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:210:LEU:CB	2:I:220:ILE:HD11	2.46	0.46
2:I:1043:ALA:C	2:I:1046:VAL:HG13	2.36	0.46
2:I:1080:ASN:OD1	2:I:1081:PRO:HD3	2.16	0.46
2:I:1142:ARG:HH12	2:I:1165:SER:CA	2.14	0.46
2:I:1328:LYS:O	3:J:245:LEU:HD12	2.16	0.46
3:J:478:LEU:CD1	4:K:24:ALA:HA	2.46	0.46
3:J:527:LEU:N	3:J:527:LEU:HD12	2.30	0.46
3:J:707:ILE:CG2	3:J:708:ASN:H	2.16	0.46
3:J:1318:SER:CA	3:J:1342:ASP:OD2	2.60	0.46
4:K:58:LEU:HD12	4:K:59:ILE:HG12	1.97	0.46
5:L:462:LYS:HE3	5:L:487:MET:HE1	1.96	0.46
1:A:56:VAL:HG23	1:A:57:THR:N	2.31	0.46
1:A:153:VAL:HB	1:A:175:ALA:HB3	1.98	0.46
1:B:88:LEU:HD13	1:B:88:LEU:HA	1.82	0.46
1:B:101:THR:HA	1:B:142:MET:C	2.37	0.46
1:B:107:ILE:HG12	1:B:135:ASP:CA	2.32	0.46
2:C:15:PHE:CD2	2:C:1190:ALA:HB2	2.50	0.46
2:C:478:ARG:HH12	2:C:482:GLY:N	2.13	0.46
2:C:1033:ARG:NH1	2:C:1033:ARG:CG	2.79	0.46
2:C:1066:MET:HE1	2:C:1076:ILE:CG2	2.45	0.46
3:D:31:ARG:CZ	3:D:241:VAL:HG21	2.45	0.46
3:D:270:ARG:HH21	5:F:449:THR:HG23	1.77	0.46
3:D:279:LEU:HB2	3:D:295:GLU:CG	2.43	0.46
3:D:289:ASP:O	3:D:293:ARG:HG3	2.16	0.46
3:D:423:LEU:CD1	3:D:468:VAL:CG1	2.93	0.46
3:D:514:THR:OG1	3:D:596:LEU:CD2	2.63	0.46
3:D:648:GLU:HG3	3:D:649:LYS:HG2	1.98	0.46
3:D:825:VAL:HG21	3:D:832:LYS:HB3	1.98	0.46
3:D:833:GLU:HA	3:D:834:PRO:HD3	1.84	0.46
3:D:1238:GLN:HB3	3:D:1242:ARG:NH2	2.24	0.46
3:D:1375:ALA:CB	3:J:853:THR:HG21	2.45	0.46
5:F:244:THR:O	5:F:247:GLU:HB2	2.16	0.46
5:F:387:VAL:HG11	5:F:409:ASN:OD1	2.16	0.46
1:G:19:VAL:HG22	1:G:20:SER:N	2.30	0.46
1:G:155:ALA:H	1:G:174:ASP:CG	2.19	0.46
1:G:231:PHE:HB2	1:H:218:ARG:HD3	1.97	0.46
1:H:15:ASP:HB3	1:H:27:THR:OG1	2.16	0.46
1:H:133:LEU:HD21	1:H:140:ILE:HG22	1.98	0.46
1:H:153:VAL:CG2	1:H:177:TYR:HE2	2.29	0.46
2:I:159:SER:HA	2:I:172:TYR:CD1	2.49	0.46
2:I:599:VAL:HG21	2:I:623:LEU:HD22	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:1100:PRO:C	2:I:1101:LEU:HD23	2.37	0.46
3:J:127:LEU:HD12	3:J:127:LEU:C	2.35	0.46
3:J:737:ILE:O	3:J:740:LEU:N	2.22	0.46
3:J:812:ASP:CB	3:J:911:LYS:HE3	2.46	0.46
3:J:1137:GLY:O	3:J:1140:ARG:HB3	2.16	0.46
5:L:366:SER:HB3	5:L:367:ILE:HD13	1.98	0.46
5:L:572:THR:OG1	5:L:574:GLU:HG2	2.16	0.46
1:B:223:ILE:O	1:B:227:GLN:HG2	2.16	0.45
2:C:82:VAL:HG22	2:C:92:TYR:CE1	2.51	0.45
2:C:150:HIS:CE1	2:C:454:ARG:CD	2.98	0.45
2:C:169:LYS:HG2	2:C:170:VAL:O	2.15	0.45
2:C:385:PHE:CE2	2:C:390:PHE:HE2	2.34	0.45
2:C:706:ARG:HG3	2:C:793:GLU:CG	2.39	0.45
2:C:822:VAL:HG23	2:C:1095:ASP:HB3	1.98	0.45
2:C:867:GLU:H	2:C:867:GLU:HG3	1.53	0.45
2:C:974:ARG:HD2	2:C:1014:LEU:HD21	1.98	0.45
2:C:1142:ARG:NH2	2:C:1165:SER:HA	2.29	0.45
2:C:1331:ARG:HA	2:C:1335:ILE:O	2.16	0.45
3:D:81:ARG:H	3:D:81:ARG:HG2	1.48	0.45
3:D:193:ASP:O	3:D:196:GLN:HB2	2.16	0.45
3:D:197:GLU:C	3:D:201:LEU:HG	2.35	0.45
3:D:510:LEU:HA	3:D:510:LEU:HD12	1.49	0.45
3:D:515:ARG:CZ	3:D:719:PHE:CE2	2.96	0.45
4:E:68:GLU:C	4:E:70:GLN:N	2.69	0.45
5:F:306:PHE:CZ	5:F:310:GLU:HA	2.51	0.45
1:G:14:VAL:CG1	1:G:27:THR:HB	2.38	0.45
1:H:19:VAL:O	1:H:20:SER:HB3	2.16	0.45
1:H:89:ALA:HB1	1:H:210:THR:CG2	2.46	0.45
2:I:262:TYR:HE1	2:I:280:ASP:OD2	1.98	0.45
2:I:805:MET:HA	2:I:1100:PRO:HG3	1.98	0.45
2:I:1209:GLN:HB3	2:I:1224:PRO:HB2	1.98	0.45
3:J:117:LEU:HD23	3:J:118:LYS:HD3	1.98	0.45
3:J:419:HIS:CE1	3:J:477:GLN:OE1	2.69	0.45
3:J:536:LEU:HD12	3:J:542:ALA:H	1.80	0.45
3:J:674:THR:CB	3:J:677:GLU:HB2	2.46	0.45
3:J:903:LEU:HD21	3:J:909:ILE:HD12	1.98	0.45
3:J:1229:VAL:HG13	3:J:1230:THR:H	1.81	0.45
3:J:1374:ALA:O	3:J:1375:ALA:HB2	2.17	0.45
5:L:353:LEU:HB2	5:L:358:VAL:CG1	2.46	0.45
1:B:100:LEU:HD11	1:B:118:ASP:OD2	2.17	0.45
1:B:151:GLY:CA	1:B:177:TYR:HB2	2.46	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:208:ASN:HD21	1:B:210:THR:CG2	2.30	0.45
2:C:247:ARG:HB2	2:C:274:ILE:CD1	2.46	0.45
2:C:277:LEU:CA	2:C:280:ASP:HB2	2.45	0.45
2:C:279:LYS:HE3	2:C:279:LYS:HB3	1.76	0.45
2:C:404:LYS:HD2	2:C:404:LYS:HA	1.49	0.45
2:C:421:SER:O	2:C:424:ASP:HB2	2.16	0.45
2:C:714:VAL:HG23	2:C:715:THR:N	2.32	0.45
2:C:815:SER:CB	2:C:1077:SER:OG	2.59	0.45
2:C:1122:LYS:CG	2:C:1229:TYR:CE1	2.95	0.45
2:C:1156:ARG:CB	2:C:1156:ARG:NH1	2.79	0.45
2:C:1210:ILE:O	2:C:1224:PRO:CA	2.64	0.45
2:C:1291:LEU:HB2	3:D:345:LYS:HD2	1.97	0.45
3:D:23:ALA:HA	3:D:1336:ALA:O	2.16	0.45
3:D:202:ARG:O	3:D:205:LEU:HB3	2.16	0.45
3:D:375:GLU:OE2	3:D:378:LYS:HD2	2.16	0.45
3:D:399:LYS:NZ	5:F:609:SER:HB2	2.31	0.45
3:D:1340:LYS:HG2	3:D:1341:ARG:H	1.81	0.45
4:E:59:ILE:HG23	4:E:64:LEU:CD2	2.46	0.45
5:F:519:LEU:HD13	5:F:519:LEU:C	2.36	0.45
1:H:137:ASN:O	1:H:138:ALA:HB3	2.16	0.45
2:I:43:PRO:O	2:I:44:GLU:HB3	2.15	0.45
2:I:150:HIS:NE2	2:I:452:ARG:HD3	2.30	0.45
2:I:189:ASP:CB	2:I:190:PRO:HD2	2.47	0.45
2:I:295:LYS:O	2:I:317:LEU:HG	2.16	0.45
2:I:371:ARG:O	2:I:374:GLU:HG3	2.15	0.45
2:I:375:PRO:HA	2:I:376:PRO:HD3	1.88	0.45
2:I:389:PHE:CD1	2:I:395:TYR:HE1	2.34	0.45
2:I:540:ARG:NH2	2:I:568:ASN:ND2	2.65	0.45
2:I:551:HIS:HD1	2:I:553:THR:HG1	1.60	0.45
2:I:834:GLN:HE21	2:I:1056:VAL:HG21	1.82	0.45
2:I:896:THR:OG1	2:I:899:GLU:OE2	2.24	0.45
2:I:1101:LEU:HD13	3:J:730:ALA:HB1	1.98	0.45
3:J:106:GLU:OE2	3:J:241:VAL:HG13	2.17	0.45
3:J:146:VAL:HG11	3:J:155:GLU:O	2.16	0.45
3:J:181:GLY:O	3:J:183:GLU:N	2.48	0.45
3:J:184:ALA:O	3:J:187:ALA:HB3	2.16	0.45
3:J:396:ALA:O	3:J:400:MET:HG3	2.16	0.45
3:J:903:LEU:HD11	3:J:909:ILE:HD11	1.98	0.45
5:L:362:ASN:O	5:L:365:MET:HE2	2.16	0.45
5:L:573:LEU:CD2	5:L:573:LEU:N	2.80	0.45
5:L:601:PRO:C	5:L:603:ARG:H	2.18	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:162:GLU:HG2	1:A:165:GLU:H	1.82	0.45
1:B:10:LYS:CG	1:B:11:PRO:HD2	2.46	0.45
1:B:44:ARG:O	1:B:46:ILE:N	2.49	0.45
1:B:59:VAL:HG21	1:B:144:ILE:HD11	1.96	0.45
2:C:515:MET:HE3	2:C:517:GLN:HB2	1.97	0.45
2:C:593:LYS:HG3	2:C:595:THR:HG23	1.98	0.45
2:C:614:TYR:CE1	2:C:652:TYR:HE1	2.35	0.45
2:C:1222:GLU:O	2:C:1223:ARG:HB2	2.17	0.45
3:D:299:LEU:O	3:D:301:GLU:N	2.49	0.45
3:D:674:THR:CG2	3:D:677:GLU:HB2	2.46	0.45
3:D:822:MET:SD	3:D:838:ARG:HB3	2.57	0.45
3:D:825:VAL:HG12	3:D:838:ARG:HH11	1.81	0.45
3:D:1175:LEU:N	3:D:1188:GLU:O	2.42	0.45
3:D:1226:VAL:C	3:D:1228:ALA:H	2.20	0.45
5:F:289:LYS:HE2	5:F:289:LYS:HB3	1.80	0.45
5:F:595:LEU:O	5:F:598:LEU:HD23	2.15	0.45
1:G:49:SER:HB3	2:I:1083:GLU:CD	2.37	0.45
1:G:225:ALA:HB2	1:H:228:LEU:HD13	1.97	0.45
1:H:58:GLU:OE2	1:H:145:LYS:HD3	2.17	0.45
1:H:61:ILE:HG12	1:H:171:LEU:HD12	1.97	0.45
1:H:89:ALA:HB1	1:H:210:THR:HG22	1.98	0.45
2:I:18:ARG:HA	2:I:19:PRO:HD3	1.65	0.45
2:I:32:LEU:HD23	2:I:32:LEU:HA	1.56	0.45
2:I:189:ASP:HB2	2:I:190:PRO:CD	2.46	0.45
2:I:194:LEU:HD12	2:I:195:PHE:H	1.81	0.45
2:I:582:ASN:HB2	2:I:586:PHE:O	2.16	0.45
2:I:782:VAL:HG11	2:I:792:GLY:CA	2.47	0.45
2:I:807:TRP:O	2:I:808:ASN:HB2	2.15	0.45
2:I:1122:LYS:HG2	2:I:1229:TYR:CE1	2.51	0.45
2:I:1152:GLY:O	2:I:1153:ALA:HB2	2.16	0.45
2:I:1293:VAL:HG22	2:I:1300:GLY:HA3	1.98	0.45
3:J:508:LEU:O	3:J:508:LEU:HG	2.14	0.45
3:J:568:SER:OG	3:J:570:LYS:NZ	2.47	0.45
3:J:660:GLU:O	3:J:664:ILE:HG12	2.16	0.45
3:J:810:THR:OG1	3:J:811:GLU:N	2.47	0.45
3:J:825:VAL:HG22	3:J:832:LYS:H	1.81	0.45
3:J:842:ARG:NH2	3:J:884:SER:HB2	2.31	0.45
3:J:872:LEU:HD23	3:J:872:LEU:HA	1.80	0.45
3:J:1174:ARG:HG2	3:J:1189:MET:HG2	1.98	0.45
3:J:1288:ALA:C	3:J:1290:ARG:H	2.20	0.45
5:L:224:LEU:O	5:L:228:TYR:N	2.49	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:L:353:LEU:HB2	5:L:358:VAL:HG12	1.98	0.45
5:L:414:LYS:HE3	5:L:434:TRP:CE3	2.51	0.45
5:L:491:GLU:O	5:L:494:ILE:N	2.50	0.45
5:L:552:THR:C	5:L:554:ARG:N	2.69	0.45
1:A:207:THR:CG2	1:A:208:ASN:N	2.79	0.45
1:B:59:VAL:HG22	1:B:144:ILE:HD11	1.98	0.45
1:B:125:LYS:O	1:B:128:HIS:CB	2.65	0.45
1:B:301:THR:C	1:B:303:ILE:N	2.69	0.45
2:C:195:PHE:CG	2:C:203:LYS:HD3	2.52	0.45
2:C:322:LEU:HA	2:C:322:LEU:HD23	1.51	0.45
2:C:480:SER:CB	2:C:481:LEU:HD13	2.47	0.45
2:C:519:ASN:O	2:C:522:SER:HB3	2.16	0.45
2:C:557:ARG:HE	2:C:608:ALA:HA	1.81	0.45
2:C:598:VAL:HG13	2:C:627:GLY:O	2.16	0.45
2:C:706:ARG:HG2	2:C:706:ARG:NH1	2.32	0.45
2:C:979:LEU:CD1	2:C:1011:LEU:HD11	2.44	0.45
2:C:1036:ILE:HG22	2:C:1037:THR:N	2.31	0.45
2:C:1235:LEU:HA	2:C:1235:LEU:HD23	0.98	0.45
2:C:1293:VAL:HG13	2:C:1301:ARG:N	2.31	0.45
3:D:85:CYS:SG	3:D:87:LYS:N	2.90	0.45
3:D:97:VAL:O	3:D:100:GLU:N	2.23	0.45
3:D:185:ILE:HA	3:D:188:LEU:HB2	1.97	0.45
3:D:227:PHE:C	3:D:227:PHE:HD1	2.20	0.45
3:D:385:LEU:HD23	3:D:385:LEU:HA	1.68	0.45
3:D:552:ILE:C	3:D:552:ILE:HD12	2.37	0.45
4:E:38:LEU:HD22	4:E:59:ILE:HD11	1.97	0.45
4:E:88:GLU:OE2	4:E:88:GLU:CA	2.63	0.45
5:F:105:MET:HE3	5:F:105:MET:C	2.37	0.45
5:F:227:GLN:HG3	5:F:252:LEU:HB2	1.98	0.45
5:F:355:ILE:O	5:F:358:VAL:HG22	2.16	0.45
5:F:445:ASP:HB2	5:F:451:ARG:NH2	2.32	0.45
5:F:562:ARG:CZ	5:F:573:LEU:CB	2.85	0.45
5:F:595:LEU:N	5:F:595:LEU:CD2	2.76	0.45
1:G:13:LEU:HG	1:G:13:LEU:O	2.17	0.45
1:G:155:ALA:CA	1:G:158:ARG:HG3	2.47	0.45
2:I:3:TYR:CE2	2:I:1158:LYS:HE2	2.52	0.45
2:I:124:MET:HG3	2:I:124:MET:O	2.16	0.45
2:I:540:ARG:HE	2:I:568:ASN:CG	2.19	0.45
2:I:545:PHE:CD1	2:I:548:ARG:HB2	2.51	0.45
2:I:559:CYS:HA	2:I:560:PRO:HD3	1.71	0.45
2:I:567:PRO:HD2	2:I:568:ASN:H	1.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:739:ASP:OD2	2:I:740:GLU:HG3	2.16	0.45
2:I:790:ASP:N	2:I:793:GLU:O	2.49	0.45
2:I:1220:GLN:HG2	2:I:1221:PHE:N	2.31	0.45
3:J:54:ASP:HB3	3:J:60:ARG:HH11	1.82	0.45
3:J:102:MET:HB3	3:J:244:VAL:O	2.15	0.45
3:J:132:LEU:HD11	3:J:136:GLU:CG	2.37	0.45
3:J:260:PHE:C	5:L:504:PRO:HG2	2.36	0.45
3:J:341:ASN:OD1	3:J:342:LEU:N	2.48	0.45
3:J:645:VAL:O	3:J:741:ALA:CB	2.64	0.45
3:J:709:ARG:HG3	3:J:710:ASP:OD2	2.17	0.45
5:L:552:THR:O	5:L:555:GLU:N	2.49	0.45
1:A:56:VAL:CG2	1:A:57:THR:N	2.78	0.45
1:B:89:ALA:CB	1:B:124:VAL:N	2.79	0.45
1:B:292:THR:HB	1:B:295:LEU:HB3	1.96	0.45
2:C:155:VAL:HG23	2:C:176:ILE:CG1	2.46	0.45
2:C:250:THR:HG23	2:C:268:ARG:CA	2.46	0.45
2:C:250:THR:HG23	2:C:268:ARG:HA	1.98	0.45
2:C:614:TYR:CD1	2:C:652:TYR:CE1	3.05	0.45
2:C:820:GLU:O	2:C:823:VAL:HG13	2.17	0.45
2:C:967:LEU:HA	2:C:967:LEU:HD12	1.13	0.45
2:C:975:ILE:O	2:C:978:VAL:HB	2.16	0.45
2:C:1101:LEU:HD23	2:C:1101:LEU:HA	1.58	0.45
2:C:1121:ALA:HB2	2:C:1182:ILE:CD1	2.46	0.45
2:C:1222:GLU:O	2:C:1223:ARG:CB	2.64	0.45
3:D:128:LEU:C	3:D:130:MET:N	2.70	0.45
3:D:139:LEU:HA	3:D:139:LEU:HD23	1.46	0.45
3:D:253:VAL:O	3:D:260:PHE:HD2	2.00	0.45
3:D:573:THR:HG23	3:D:576:ARG:HG3	1.99	0.45
3:D:644:MET:HE3	3:D:644:MET:HB2	1.81	0.45
3:D:672:LEU:HD12	3:D:672:LEU:N	2.32	0.45
3:D:679:TYR:CD2	3:D:680:ASN:N	2.84	0.45
3:D:890:THR:HG21	3:D:894:VAL:CA	2.47	0.45
3:D:1187:GLU:HG3	3:D:1187:GLU:O	2.15	0.45
3:D:1226:VAL:HA	3:D:1229:VAL:HG12	1.99	0.45
3:D:1353:VAL:O	3:D:1353:VAL:HG22	2.16	0.45
5:F:295:CYS:HA	5:F:329:LYS:CB	2.47	0.45
5:F:392:LYS:O	5:F:395:THR:CG2	2.65	0.45
5:F:394:TYR:HB2	5:F:404:LEU:CD2	2.47	0.45
5:F:587:ILE:CD1	5:F:590:ILE:HB	2.41	0.45
1:G:61:ILE:HG23	1:G:142:MET:HB3	1.98	0.45
1:H:81:ILE:HA	1:H:84:ASN:OD1	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:190:PRO:C	2:I:192:ASP:H	2.20	0.45
2:I:198:ILE:O	2:I:201:ARG:HB2	2.17	0.45
2:I:262:TYR:O	2:I:263:VAL:HG23	2.16	0.45
2:I:519:ASN:ND2	2:I:796:LEU:HD23	2.16	0.45
2:I:582:ASN:HB2	2:I:586:PHE:C	2.37	0.45
2:I:614:TYR:C	2:I:638:SER:HG	2.12	0.45
2:I:981:ALA:O	2:I:1002:LEU:HD11	2.16	0.45
2:I:1024:GLU:O	2:I:1027:LYS:HG3	2.17	0.45
2:I:1053:TYR:N	2:I:1053:TYR:CD1	2.84	0.45
2:I:1077:SER:HB3	3:J:356:THR:OG1	2.16	0.45
2:I:1326:LEU:HD11	3:J:331:ILE:HG23	1.98	0.45
2:I:1329:GLU:HA	3:J:245:LEU:HD12	1.95	0.45
3:J:355:ILE:HG12	3:J:464:ASP:O	2.17	0.45
5:L:477:GLU:HA	5:L:478:PRO:HD3	1.70	0.45
5:L:595:LEU:HD23	5:L:595:LEU:H	1.82	0.45
1:A:153:VAL:O	1:A:175:ALA:N	2.47	0.45
1:B:175:ALA:HB1	1:B:177:TYR:CZ	2.52	0.45
1:B:212:ASP:HB2	1:B:213:PRO:CD	2.47	0.45
2:C:27:LEU:HA	2:C:528:ARG:HH12	1.81	0.45
2:C:243:PRO:O	2:C:246:LEU:HD12	2.17	0.45
2:C:243:PRO:HG2	2:C:278:GLU:HA	1.99	0.45
2:C:857:VAL:CG2	2:C:862:LEU:HD21	2.46	0.45
2:C:896:THR:CB	2:C:897:PRO:HD2	2.46	0.45
2:C:959:ASP:O	2:C:962:GLU:HB2	2.16	0.45
2:C:1281:TYR:HD2	3:D:431:ARG:HD2	1.77	0.45
3:D:120:LEU:HA	3:D:120:LEU:HD22	1.46	0.45
3:D:314:ARG:NH1	3:D:314:ARG:HB3	2.31	0.45
3:D:615:LYS:H	3:D:615:LYS:HG3	1.45	0.45
3:D:1165:PHE:CD2	3:D:1175:LEU:CD1	2.96	0.45
3:D:1310:THR:HG23	3:D:1311:LYS:N	2.32	0.45
3:D:1340:LYS:HG2	3:D:1341:ARG:O	2.17	0.45
4:E:50:ALA:O	4:E:53:GLU:HB2	2.17	0.45
5:F:121:LYS:HE2	5:F:421:TYR:CZ	2.51	0.45
5:F:124:GLU:O	5:F:128:ASN:ND2	2.47	0.45
5:F:141:ILE:O	5:F:144:LEU:N	2.50	0.45
5:F:487:MET:C	5:F:489:MET:H	2.20	0.45
1:G:41:ASN:HB2	2:I:1218:GLY:HA3	1.99	0.45
1:G:167:PRO:O	1:G:170:ARG:HB2	2.17	0.45
1:G:224:LEU:HD23	1:G:224:LEU:O	2.17	0.45
1:H:224:LEU:C	1:H:224:LEU:HD12	2.33	0.45
2:I:82:VAL:HG22	2:I:92:TYR:CD1	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:159:SER:O	2:I:160:ASP:CB	2.63	0.45
2:I:600:THR:HG22	2:I:601:ASP:H	1.81	0.45
2:I:676:ALA:HA	2:I:679:ALA:CB	2.47	0.45
2:I:1294:LYS:HD3	3:J:472:LEU:CD1	2.47	0.45
2:I:1323:PHE:CE1	2:I:1327:LEU:HD11	2.51	0.45
3:J:408:VAL:HG23	3:J:409:TRP:N	2.32	0.45
3:J:515:ARG:HG3	3:J:516:ASP:H	1.82	0.45
3:J:551:ARG:HA	3:J:568:SER:O	2.17	0.45
3:J:674:THR:CG2	3:J:677:GLU:HB2	2.47	0.45
3:J:808:VAL:O	3:J:810:THR:N	2.49	0.45
3:J:1322:ALA:HA	3:J:1325:PHE:HD2	1.77	0.45
4:K:10:VAL:HA	4:K:13:ILE:O	2.16	0.45
5:L:459:THR:O	5:L:463:LEU:HD22	2.16	0.45
1:A:208:ASN:CG	1:A:210:THR:HG23	2.36	0.45
1:B:19:VAL:O	1:B:20:SER:HB3	2.17	0.45
1:B:63:GLY:HA3	1:B:71:LYS:NZ	2.31	0.45
1:B:130:ILE:O	1:B:131:CYS:HB3	2.17	0.45
1:B:208:ASN:OD1	1:B:210:THR:N	2.50	0.45
1:B:268:ASN:CG	1:B:271:LYS:HE2	2.37	0.45
2:C:32:LEU:HA	2:C:32:LEU:HD23	1.07	0.45
2:C:129:LEU:HD12	2:C:129:LEU:N	2.31	0.45
2:C:262:TYR:OH	2:C:282:VAL:HG21	2.16	0.45
2:C:359:ARG:HH12	2:C:378:ARG:HH22	1.65	0.45
2:C:480:SER:OG	2:C:481:LEU:HD13	2.17	0.45
2:C:743:PRO:HG2	2:C:744:GLY:H	1.81	0.45
2:C:801:ARG:HD2	2:C:1229:TYR:OH	2.17	0.45
2:C:1193:ALA:O	2:C:1196:LYS:N	2.50	0.45
2:C:1280:ALA:HB3	3:D:431:ARG:CB	2.36	0.45
3:D:726:ALA:HA	3:D:731:ARG:O	2.17	0.45
3:D:1216:ALA:HB3	3:D:1219:ASP:OD2	2.16	0.45
3:D:1280:VAL:CG1	3:D:1284:ARG:HE	2.30	0.45
3:D:1307:LEU:HD12	3:D:1308:GLY:N	2.31	0.45
3:D:1321:SER:C	3:D:1325:PHE:HE1	2.19	0.45
4:E:15:ASN:HB3	4:E:18:ASP:H	1.82	0.45
5:F:295:CYS:CB	5:F:329:LYS:HB2	2.46	0.45
5:F:547:VAL:HG12	5:F:548:LEU:HD23	1.99	0.45
1:G:67:GLU:HG3	1:G:68:TYR:CE2	2.52	0.45
2:I:397:LEU:O	2:I:398:SER:OG	2.28	0.45
2:I:673:HIS:ND1	3:J:765:GLU:O	2.50	0.45
2:I:849:GLU:C	2:I:851:THR:H	2.20	0.45
2:I:989:LEU:CD1	2:I:1000:LEU:HD12	2.44	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:1075:VAL:HG21	3:J:463:GLY:HA2	1.96	0.45
2:I:1211:ARG:HE	2:I:1220:GLN:HE22	1.63	0.45
2:I:1281:TYR:HE2	3:J:431:ARG:C	2.20	0.45
3:J:377:PHE:O	3:J:378:LYS:C	2.55	0.45
3:J:385:LEU:HA	3:J:385:LEU:HD23	1.53	0.45
3:J:610:ARG:HG3	3:J:866:GLU:OE2	2.16	0.45
3:J:1293:GLU:HB3	3:J:1294:ALA:H	1.39	0.45
3:J:1308:GLY:O	3:J:1311:LYS:N	2.50	0.45
5:L:243:ALA:O	5:L:246:GLN:HB3	2.17	0.45
5:L:374:ARG:HH11	5:L:374:ARG:HG3	1.82	0.45
5:L:592:ALA:O	5:L:596:ARG:HG2	2.17	0.45
1:B:50:SER:O	1:B:51:MET:HB2	2.16	0.45
1:B:70:THR:OG1	1:B:71:LYS:N	2.49	0.45
2:C:397:LEU:O	2:C:398:SER:OG	2.18	0.45
2:C:471:VAL:O	2:C:475:VAL:HG23	2.16	0.45
2:C:484:LEU:O	2:C:486:THR:HG22	2.17	0.45
2:C:593:LYS:CA	2:C:652:TYR:CE2	2.97	0.45
2:C:616:ILE:HD12	2:C:616:ILE:N	2.32	0.45
2:C:858:GLY:O	2:C:861:ALA:HB3	2.17	0.45
2:C:1041:ASP:C	2:C:1042:LEU:HD23	2.37	0.45
2:C:1070:HIS:CD2	2:C:1111:GLN:HA	2.52	0.45
3:D:87:LYS:N	3:D:87:LYS:HD2	2.32	0.45
3:D:97:VAL:C	3:D:99:ARG:N	2.69	0.45
3:D:155:GLU:HB2	3:D:158:GLN:HB2	1.99	0.45
3:D:259:ARG:NH1	5:F:502:LYS:HD3	2.32	0.45
3:D:473:THR:OG1	3:D:475:GLU:N	2.50	0.45
3:D:537:TYR:CE2	3:D:544:LEU:HD23	2.51	0.45
3:D:579:LEU:HD12	3:D:579:LEU:HA	1.49	0.45
3:D:903:LEU:C	3:D:905:ARG:N	2.68	0.45
5:F:365:MET:O	5:F:369:GLU:N	2.35	0.45
5:F:401:PHE:O	5:F:403:ASP:N	2.50	0.45
5:F:532:LEU:O	5:F:536:THR:CG2	2.61	0.45
5:F:562:ARG:C	5:F:563:PHE:HD1	2.20	0.45
5:F:608:ARG:HG2	5:F:609:SER:N	2.32	0.45
1:G:41:ASN:C	1:G:43:LEU:N	2.70	0.45
1:G:57:THR:HG21	1:G:147:GLN:OE1	2.16	0.45
1:H:121:VAL:O	1:H:121:VAL:HG12	2.16	0.45
2:I:49:LEU:HD12	2:I:73:TYR:CE2	2.52	0.45
2:I:59:ILE:CD1	2:I:472:GLU:HG3	2.42	0.45
2:I:99:LYS:O	2:I:100:LEU:HD23	2.16	0.45
2:I:130:MET:HA	2:I:136:PHE:HD1	1.79	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:468:LEU:O	2:I:471:VAL:N	2.46	0.45
2:I:486:THR:HG23	2:I:487:LEU:H	1.82	0.45
2:I:550:VAL:HG11	3:J:776:THR:HG22	1.98	0.45
2:I:672:GLU:CG	2:I:1187:PHE:HD2	2.30	0.45
2:I:796:LEU:HB2	2:I:1233:LEU:CD1	2.47	0.45
2:I:811:ASN:O	2:I:1099:ASN:HB2	2.16	0.45
2:I:827:ARG:HE	2:I:827:ARG:HB2	1.41	0.45
2:I:841:ARG:NH1	2:I:841:ARG:HG3	2.32	0.45
2:I:1120:ALA:CB	2:I:1199:LEU:HD23	2.46	0.45
2:I:1213:TYR:CD1	2:I:1220:GLN:HA	2.50	0.45
3:J:71:LEU:HD13	3:J:71:LEU:C	2.38	0.45
3:J:156:ARG:NH1	3:J:157:GLN:HE21	2.10	0.45
3:J:215:LYS:CE	3:J:216:LYS:HG3	2.46	0.45
3:J:252:LEU:HD23	3:J:252:LEU:HA	1.30	0.45
3:J:262:THR:O	5:L:506:SER:HA	2.16	0.45
3:J:519:ASN:CG	3:J:709:ARG:HD3	2.37	0.45
3:J:859:PRO:CG	3:J:862:THR:HG21	2.42	0.45
3:J:885:VAL:O	3:J:1258:ARG:HD2	2.17	0.45
3:J:885:VAL:HG12	3:J:894:VAL:HG11	1.98	0.45
3:J:1283:SER:O	3:J:1286:LYS:N	2.47	0.45
5:L:587:ILE:O	5:L:590:ILE:HB	2.17	0.45
1:A:118:ASP:OD2	1:A:120:ASP:N	2.48	0.45
1:A:166:ARG:HD2	1:A:167:PRO:HA	1.98	0.45
1:B:92:VAL:HG12	1:B:95:LYS:HB3	1.98	0.45
2:C:92:TYR:HB2	2:C:137:VAL:HB	1.99	0.45
2:C:510:GLN:OE1	2:C:534:GLY:HA2	2.16	0.45
2:C:524:ILE:HD11	2:C:712:SER:CB	2.46	0.45
2:C:1211:ARG:O	2:C:1212:LEU:HD12	2.17	0.45
2:C:1240:ASP:HB2	3:D:445:LYS:NZ	2.32	0.45
2:C:1285:TYR:CE1	3:D:1361:THR:HG21	2.44	0.45
3:D:386:GLU:OE1	3:D:394:ILE:HG22	2.17	0.45
3:D:819:GLY:HA3	3:D:882:VAL:O	2.17	0.45
3:D:1280:VAL:HG13	3:D:1284:ARG:HE	1.82	0.45
3:D:1352:ILE:CD1	8:D:2004:4C4:C8	2.94	0.45
4:E:36:ASP:CB	4:E:37:PRO:HD2	2.40	0.45
5:F:460:ILE:CG2	5:F:464:ASN:HD22	2.30	0.45
1:G:46:ILE:HD11	1:H:38:THR:HG21	1.98	0.45
1:G:182:ARG:C	1:G:183:ILE:HD12	2.37	0.45
1:H:185:TYR:HA	1:H:203:ILE:HD12	1.98	0.45
2:I:202:ARG:HH11	2:I:202:ARG:HB2	1.81	0.45
2:I:841:ARG:HG3	2:I:841:ARG:HH11	1.82	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:852:ALA:HB2	2:I:869:GLY:CA	2.47	0.45
2:I:905:ILE:HG22	2:I:906:PHE:CD1	2.51	0.45
2:I:1054:LEU:HD12	2:I:1054:LEU:HA	1.76	0.45
3:J:81:ARG:HG3	3:J:82:GLY:H	1.80	0.45
3:J:261:ALA:HB2	5:L:505:ILE:CG2	2.47	0.45
3:J:263:SER:HB2	5:L:507:MET:HE2	1.98	0.45
3:J:277:ASN:O	3:J:280:LYS:N	2.50	0.45
3:J:325:LYS:CE	3:J:330:MET:CG	2.87	0.45
3:J:363:LEU:HD12	3:J:450:HIS:CE1	2.52	0.45
3:J:441:LEU:HA	3:J:441:LEU:HD13	1.57	0.45
3:J:833:GLU:HB2	3:J:1242:ARG:HD2	1.98	0.45
3:J:903:LEU:CD1	3:J:909:ILE:CD1	2.95	0.45
3:J:918:ILE:HA	3:J:921:GLN:HG3	1.99	0.45
5:L:367:ILE:HD13	5:L:367:ILE:H	1.81	0.45
5:L:538:GLU:HA	5:L:541:ARG:HG3	1.98	0.45
5:L:595:LEU:HD23	5:L:595:LEU:N	2.32	0.45
1:B:172:LEU:HD12	1:B:172:LEU:N	2.32	0.45
2:C:402:ARG:HH12	2:C:424:ASP:CG	2.20	0.45
2:C:617:ALA:H	2:C:653:MET:HA	1.82	0.45
2:C:680:LEU:HD23	2:C:681:MET:N	2.32	0.45
2:C:901:LEU:HD13	5:F:563:PHE:CE2	2.52	0.45
2:C:1083:GLU:H	2:C:1083:GLU:HG3	1.38	0.45
2:C:1240:ASP:HB2	3:D:445:LYS:HZ3	1.82	0.45
2:C:1293:VAL:HG13	2:C:1300:GLY:C	2.38	0.45
3:D:112:ALA:N	3:D:300:GLN:OE1	2.27	0.45
3:D:227:PHE:CE1	3:D:232:ASN:HB2	2.52	0.45
3:D:595:ALA:O	3:D:596:LEU:HB2	2.16	0.45
3:D:627:THR:CG2	3:D:628:GLY:H	2.29	0.45
3:D:776:THR:O	3:D:777:HIS:C	2.55	0.45
3:D:1157:ALA:HB3	3:D:1207:GLY:H	1.78	0.45
3:D:1352:ILE:CD1	8:D:2004:4C4:H6	2.43	0.45
4:E:44:ASP:O	4:E:49:ILE:HG13	2.17	0.45
5:F:384:LEU:HD23	5:F:384:LEU:HA	1.38	0.45
5:F:507:MET:HE2	5:F:507:MET:HB2	1.41	0.45
2:I:60:GLN:O	2:I:476:LYS:HE2	2.17	0.45
2:I:346:TYR:OH	2:I:436:ARG:NH1	2.50	0.45
2:I:673:HIS:O	2:I:1109:ILE:HG22	2.17	0.45
2:I:693:LEU:HD23	2:I:693:LEU:O	2.16	0.45
2:I:1041:ASP:C	2:I:1042:LEU:HD23	2.38	0.45
3:J:74:LYS:HB3	3:J:75:TYR:CD1	2.52	0.45
3:J:140:TYR:O	3:J:141:PHE:HB2	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:159:ILE:C	3:J:160:LEU:HD23	2.37	0.45
3:J:749:LYS:CB	3:J:750:PRO:CD	2.95	0.45
3:J:1143:ASP:OD1	3:J:1143:ASP:N	2.50	0.45
3:J:1158:GLU:HB3	3:J:1186:TYR:CE1	2.52	0.45
3:J:1215:GLU:N	3:J:1215:GLU:OE2	2.50	0.45
5:L:99:ARG:NH1	5:L:103:ARG:HD2	2.31	0.45
5:L:339:ARG:HE	5:L:339:ARG:HB3	1.53	0.45
5:L:345:GLN:O	5:L:348:GLU:HB2	2.16	0.45
5:L:439:ILE:CG1	5:L:440:THR:N	2.77	0.45
5:L:503:GLU:N	5:L:504:PRO:CA	2.80	0.45
5:L:522:PHE:N	5:L:522:PHE:HD1	2.14	0.45
1:A:19:VAL:O	1:A:19:VAL:CG2	2.64	0.44
1:A:60:GLU:CD	1:A:143:ARG:HH21	2.21	0.44
1:B:136:GLU:HG2	1:B:137:ASN:N	2.32	0.44
2:C:165:HIS:HB3	2:C:167:SER:OG	2.16	0.44
2:C:194:LEU:HB3	2:C:206:ALA:HB2	1.99	0.44
2:C:524:ILE:HD12	2:C:712:SER:HB2	1.96	0.44
2:C:575:LEU:HA	2:C:575:LEU:HD12	1.42	0.44
2:C:670:PHE:HE2	2:C:1113:LEU:O	2.00	0.44
2:C:800:MET:CE	2:C:822:VAL:CG2	2.95	0.44
2:C:971:LEU:HD23	2:C:972:PHE:CD2	2.52	0.44
2:C:1013:GLN:HA	2:C:1016:GLU:CD	2.37	0.44
2:C:1312:ASN:HA	4:E:31:GLN:OE1	2.17	0.44
2:C:1319:MET:HA	2:C:1320:PRO:HD3	1.82	0.44
3:D:42:GLU:CG	5:F:451:ARG:HG3	2.40	0.44
3:D:317:THR:HG21	3:D:320:ASN:OD1	2.17	0.44
3:D:327:LEU:N	3:D:327:LEU:HD23	2.29	0.44
3:D:441:LEU:N	3:D:441:LEU:HD22	2.31	0.44
3:D:583:VAL:HG12	3:D:584:PRO:HD2	1.99	0.44
3:D:585:LYS:O	3:D:587:LEU:N	2.47	0.44
3:D:802:ASP:CG	3:D:1325:PHE:CD2	2.90	0.44
3:D:1282:TYR:O	3:D:1286:LYS:HD2	2.17	0.44
5:F:130:VAL:HG13	5:F:365:MET:CG	2.40	0.44
5:F:514:ASP:OD2	5:F:514:ASP:N	2.51	0.44
5:F:589:GLN:OE1	5:F:589:GLN:HA	2.17	0.44
1:G:172:LEU:HD12	1:G:172:LEU:N	2.32	0.44
1:H:57:THR:HG23	1:H:158:ARG:HH21	1.81	0.44
2:I:117:ILE:CD1	2:I:488:MET:HG2	2.48	0.44
2:I:149:LEU:CD2	2:I:451:ARG:NH1	2.80	0.44
2:I:252:SER:O	2:I:253:PHE:HB3	2.18	0.44
2:I:292:ILE:HG21	2:I:322:LEU:HD21	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:522:SER:HB2	2:I:687:ARG:CB	2.43	0.44
2:I:628:HIS:ND1	2:I:628:HIS:N	2.63	0.44
2:I:841:ARG:CZ	3:J:256:ASP:HB3	2.46	0.44
2:I:1029:LEU:HD23	2:I:1030:GLU:N	2.32	0.44
2:I:1213:TYR:HE1	2:I:1220:GLN:HB2	1.82	0.44
3:J:132:LEU:O	3:J:133:ARG:C	2.55	0.44
3:J:322:ARG:HG3	3:J:323:PRO:CD	2.42	0.44
3:J:430:HIS:HA	3:J:921:GLN:HB3	1.99	0.44
3:J:505:ASP:CB	3:J:629:PHE:HE1	2.25	0.44
3:J:544:LEU:HD13	3:J:544:LEU:HA	1.59	0.44
3:J:834:PRO:O	3:J:838:ARG:CG	2.65	0.44
3:J:1167:LYS:HE2	3:J:1170:LYS:HB2	1.98	0.44
5:L:372:ALA:O	5:L:375:ALA:HB3	2.18	0.44
5:L:514:ASP:HB3	5:L:517:SER:H	1.83	0.44
5:L:521:ASP:C	5:L:522:PHE:HD1	2.19	0.44
1:A:64:VAL:HG11	1:A:78:ILE:HD11	2.00	0.44
1:A:90:VAL:HG22	1:A:91:ARG:N	2.32	0.44
2:C:16:GLY:HA2	2:C:1188:ASP:CG	2.37	0.44
2:C:59:ILE:CD1	2:C:472:GLU:HA	2.46	0.44
2:C:378:ARG:CZ	2:C:382:GLU:OE2	2.66	0.44
2:C:615:VAL:HG13	2:C:650:VAL:HA	1.99	0.44
2:C:657:THR:OG1	2:C:1187:PHE:HB2	2.18	0.44
2:C:834:GLN:HE21	2:C:1056:VAL:CG2	2.21	0.44
2:C:1259:LEU:HD12	2:C:1260:GLY:H	1.82	0.44
3:D:160:LEU:HB3	3:D:164:GLN:HB2	1.98	0.44
3:D:199:GLU:HG2	3:D:202:ARG:HE	1.81	0.44
3:D:915:ILE:HA	3:D:918:ILE:CG2	2.44	0.44
3:D:1157:ALA:HB3	3:D:1206:ARG:CA	2.47	0.44
5:F:215:GLU:CA	5:F:218:ARG:HD3	2.36	0.44
5:F:561:MET:HG2	5:F:571:TYR:CG	2.52	0.44
5:F:608:ARG:NE	5:F:609:SER:CA	2.80	0.44
1:H:51:MET:HB3	1:H:178:SER:HA	1.99	0.44
2:I:92:TYR:HD2	2:I:129:LEU:HB2	1.83	0.44
2:I:157:PHE:CD1	2:I:174:ALA:HB2	2.52	0.44
2:I:161:LYS:H	2:I:161:LYS:HZ2	1.63	0.44
2:I:262:TYR:OH	2:I:282:VAL:HG21	2.17	0.44
2:I:1105:SER:O	2:I:1107:MET:HG3	2.17	0.44
2:I:1341:ASP:HB3	2:I:1342:GLU:H	1.46	0.44
3:J:222:LYS:HD3	3:J:222:LYS:HA	1.73	0.44
3:J:318:GLY:O	3:J:320:ASN:N	2.49	0.44
3:J:357:VAL:HG12	3:J:359:PRO:HD3	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:499:ILE:CG2	3:J:500:ILE:HG12	2.47	0.44
3:J:507:VAL:HG11	3:J:598:LYS:CG	2.45	0.44
3:J:515:ARG:O	3:J:573:THR:HG21	2.17	0.44
3:J:672:LEU:H	3:J:672:LEU:HD12	1.81	0.44
3:J:725:MET:O	3:J:728:SER:OG	2.34	0.44
3:J:825:VAL:HG21	3:J:832:LYS:HB3	1.99	0.44
3:J:918:ILE:O	3:J:922:SER:OG	2.22	0.44
3:J:1353:VAL:O	3:J:1353:VAL:HG22	2.16	0.44
4:K:6:VAL:HG23	4:K:6:VAL:O	2.16	0.44
5:L:117:ILE:CG1	5:L:421:TYR:HB2	2.45	0.44
5:L:123:ILE:HG12	5:L:375:ALA:HB3	1.99	0.44
5:L:141:ILE:CG2	5:L:224:LEU:HD21	2.48	0.44
5:L:277:MET:O	5:L:280:VAL:HB	2.17	0.44
5:L:462:LYS:HE3	5:L:487:MET:SD	2.57	0.44
1:A:41:ASN:HD21	2:C:1216:ARG:C	2.18	0.44
1:A:79:LEU:HD13	1:A:79:LEU:C	2.37	0.44
1:A:223:ILE:O	1:A:226:GLU:N	2.50	0.44
1:B:62:ASP:CG	1:B:140:ILE:HD13	2.37	0.44
1:B:179:PRO:HB3	1:B:208:ASN:ND2	2.33	0.44
1:B:290:LEU:O	1:B:291:LYS:HD3	2.17	0.44
2:C:60:GLN:HB3	2:C:67:GLU:HG3	1.99	0.44
2:C:161:LYS:H	2:C:161:LYS:HG2	1.43	0.44
2:C:324:LYS:HA	2:C:327:GLN:HG3	2.00	0.44
2:C:741:MET:HG2	2:C:974:ARG:NH2	2.32	0.44
2:C:831:ILE:HG23	2:C:832:HIS:N	2.31	0.44
2:C:995:ASP:O	2:C:998:LEU:CD1	2.65	0.44
2:C:1232:MET:HE3	2:C:1232:MET:HB3	1.72	0.44
2:C:1255:THR:CG2	2:C:1257:GLN:HG3	2.44	0.44
3:D:355:ILE:HG12	3:D:464:ASP:O	2.17	0.44
3:D:432:LEU:C	3:D:434:ILE:N	2.68	0.44
3:D:627:THR:O	3:D:630:ALA:N	2.51	0.44
3:D:858:VAL:HA	3:D:859:PRO:HD3	1.70	0.44
3:D:1280:VAL:O	3:D:1284:ARG:HD2	2.16	0.44
3:D:1372:ARG:NE	3:J:854:ALA:HB3	2.33	0.44
5:F:463:LEU:N	5:F:463:LEU:CD1	2.80	0.44
2:I:242:VAL:H	2:I:245:ARG:HD2	1.82	0.44
2:I:421:SER:N	2:I:424:ASP:HB2	2.32	0.44
2:I:805:MET:HE1	2:I:1221:PHE:CD1	2.53	0.44
2:I:813:GLU:OE1	2:I:813:GLU:HA	2.17	0.44
2:I:865:LEU:CD2	2:I:870:ILE:C	2.85	0.44
2:I:1053:TYR:HD1	2:I:1053:TYR:N	2.14	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:1198:LEU:HA	2:I:1198:LEU:HD22	1.46	0.44
3:J:19:ALA:HB2	3:J:1373:ARG:HH22	1.83	0.44
3:J:146:VAL:CG1	3:J:149:GLY:HA3	2.47	0.44
3:J:1167:LYS:CG	3:J:1174:ARG:HH11	2.31	0.44
5:L:230:VAL:HG13	5:L:231:THR:N	2.33	0.44
5:L:522:PHE:N	5:L:522:PHE:CD1	2.86	0.44
5:L:559:LEU:HD23	5:L:559:LEU:HA	1.80	0.44
1:A:79:LEU:HD22	1:A:79:LEU:HA	1.72	0.44
1:B:125:LYS:O	1:B:128:HIS:HB2	2.17	0.44
1:B:257:VAL:HB	1:B:260:LEU:HD12	1.98	0.44
2:C:93:SER:OG	2:C:126:GLU:HB3	2.17	0.44
2:C:273:HIS:HA	2:C:276:GLN:OE1	2.17	0.44
2:C:447:HIS:CG	2:C:553:THR:HG21	2.52	0.44
2:C:470:ARG:CB	2:C:473:ARG:NH1	2.80	0.44
2:C:535:PRO:C	2:C:537:GLY:H	2.20	0.44
2:C:656:SER:OG	2:C:657:THR:N	2.51	0.44
2:C:832:HIS:O	2:C:1056:VAL:N	2.46	0.44
2:C:1007:LYS:O	2:C:1010:GLN:N	2.50	0.44
3:D:77:ARG:HD2	3:D:78:LEU:H	1.81	0.44
3:D:152:THR:OG1	3:D:154:LEU:HD12	2.18	0.44
3:D:244:VAL:HA	3:D:269:TYR:OH	2.17	0.44
3:D:333:GLY:HA3	8:D:2004:4C4:H7	1.99	0.44
3:D:674:THR:N	3:D:677:GLU:OE1	2.48	0.44
3:D:686:TRP:HB3	3:D:758:PRO:HG3	1.98	0.44
3:D:1151:LYS:HE3	3:D:1151:LYS:HB3	1.75	0.44
5:F:126:GLY:O	5:F:130:VAL:HG23	2.17	0.44
5:F:550:GLY:O	5:F:551:LEU:HD23	2.17	0.44
2:I:18:ARG:NH1	2:I:621:SER:H	2.16	0.44
2:I:233:ARG:HH12	2:I:332:ARG:HH22	1.66	0.44
2:I:865:LEU:HD22	2:I:869:GLY:C	2.37	0.44
2:I:944:ARG:HG3	2:I:944:ARG:O	2.17	0.44
2:I:1211:ARG:O	2:I:1212:LEU:HD12	2.16	0.44
2:I:1239:VAL:CG2	3:J:445:LYS:HB3	2.47	0.44
3:J:26:SER:OG	3:J:29:MET:N	2.23	0.44
3:J:515:ARG:HG2	3:J:719:PHE:HE2	1.83	0.44
3:J:543:SER:O	3:J:574:VAL:HG21	2.18	0.44
3:J:914:ALA:O	3:J:918:ILE:HG22	2.18	0.44
4:K:42:GLU:C	4:K:44:ASP:N	2.70	0.44
4:K:68:GLU:O	4:K:71:GLU:N	2.50	0.44
5:L:250:LEU:O	5:L:254:GLU:N	2.45	0.44
5:L:268:TYR:O	5:L:271:ASN:HB3	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:L:365:MET:HG2	5:L:366:SER:N	2.31	0.44
5:L:411:GLY:C	5:L:435:ILE:HG12	2.38	0.44
5:L:483:LEU:HD21	5:L:487:MET:CE	2.44	0.44
5:L:600:HIS:N	5:L:601:PRO:HD3	2.33	0.44
1:B:183:ILE:CG2	1:B:205:MET:HG3	2.17	0.44
2:C:93:SER:OG	2:C:126:GLU:OE1	2.36	0.44
2:C:207:THR:O	2:C:210:LEU:N	2.30	0.44
2:C:280:ASP:HB3	2:C:282:VAL:HG23	2.00	0.44
2:C:302:ILE:C	2:C:310:ILE:HG13	2.38	0.44
2:C:421:SER:N	2:C:424:ASP:HB2	2.28	0.44
2:C:592:ARG:C	2:C:652:TYR:HD2	2.21	0.44
2:C:854:ILE:HG22	2:C:855:PRO:CD	2.44	0.44
2:C:890:LYS:HE2	2:C:891:GLY:H	1.82	0.44
2:C:1033:ARG:HG2	2:C:1033:ARG:NH1	2.23	0.44
2:C:1077:SER:O	2:C:1078:LYS:HB2	2.18	0.44
2:C:1281:TYR:CD2	2:C:1281:TYR:N	2.85	0.44
3:D:140:TYR:CD2	5:F:100:MET:CE	3.00	0.44
3:D:1344:LEU:HD13	3:D:1350:ASN:OD1	2.18	0.44
3:D:1348:LYS:O	3:D:1351:VAL:N	2.50	0.44
4:E:58:LEU:N	4:E:58:LEU:CD1	2.79	0.44
5:F:234:THR:HB	5:F:245:ALA:CA	2.47	0.44
5:F:290:LEU:C	5:F:294:GLN:HB3	2.38	0.44
5:F:505:ILE:CD1	5:F:506:SER:N	2.81	0.44
5:F:562:ARG:NE	5:F:573:LEU:HB3	2.31	0.44
5:F:571:TYR:HB3	5:F:576:VAL:HG22	2.00	0.44
1:H:39:LEU:O	1:H:40:GLY:C	2.56	0.44
2:I:44:GLU:HA	2:I:54:ARG:HH12	1.82	0.44
2:I:185:ASP:O	2:I:196:VAL:HG23	2.17	0.44
2:I:322:LEU:HD23	2:I:322:LEU:HA	1.47	0.44
2:I:325:LEU:C	2:I:328:SER:H	2.21	0.44
2:I:354:ASP:HA	2:I:355:PRO:HD2	1.60	0.44
2:I:754:THR:O	2:I:767:GLN:HB2	2.18	0.44
2:I:809:GLY:HA2	3:J:629:PHE:CD1	2.52	0.44
2:I:1084:ASP:OD1	2:I:1084:ASP:N	2.46	0.44
2:I:1085:MET:HA	2:I:1086:PRO:HD3	1.83	0.44
3:J:70:CYS:HB3	3:J:75:TYR:HB2	1.99	0.44
3:J:819:GLY:HA2	3:J:882:VAL:O	2.18	0.44
3:J:882:VAL:CG1	3:J:883:ARG:N	2.80	0.44
4:K:10:VAL:HG13	4:K:16:ARG:HA	1.99	0.44
5:L:226:ALA:O	5:L:229:VAL:HG22	2.18	0.44
1:A:37:HIS:NE2	1:A:187:VAL:CG2	2.80	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:76:GLU:HB3	1:B:80:GLU:CG	2.48	0.44
2:C:16:GLY:HA2	2:C:1188:ASP:O	2.18	0.44
2:C:18:ARG:N	2:C:1188:ASP:OD2	2.50	0.44
2:C:52:ALA:HB2	2:C:461:GLU:HG3	1.99	0.44
2:C:245:ARG:HH11	2:C:245:ARG:CG	2.30	0.44
2:C:844:LYS:H	2:C:844:LYS:HG2	1.10	0.44
2:C:901:LEU:CD1	5:F:563:PHE:HE2	2.31	0.44
2:C:1024:GLU:HA	2:C:1027:LYS:HG2	2.00	0.44
2:C:1066:MET:N	2:C:1074:GLY:O	2.40	0.44
2:C:1109:ILE:HD12	2:C:1109:ILE:HA	1.83	0.44
3:D:38:VAL:HG13	3:D:55:GLY:HA2	1.99	0.44
3:D:212:THR:HA	3:D:215:LYS:HZ3	1.81	0.44
3:D:424:ASN:CB	3:D:434:ILE:HG12	2.34	0.44
3:D:514:THR:OG1	3:D:595:ALA:HA	2.18	0.44
3:D:573:THR:HG23	3:D:576:ARG:CG	2.47	0.44
3:D:580:TRP:HA	3:D:583:VAL:CG2	2.47	0.44
3:D:892:PHE:CE1	3:D:1281:GLU:HG2	2.53	0.44
3:D:1193:TRP:C	3:D:1194:ARG:HD2	2.37	0.44
3:D:1198:VAL:HG22	3:D:1199:PHE:N	2.33	0.44
5:F:228:TYR:O	5:F:231:THR:N	2.49	0.44
5:F:343:LYS:O	5:F:346:GLN:HB3	2.17	0.44
5:F:484:ALA:HB2	5:F:494:ILE:CD1	2.37	0.44
5:F:543:ALA:HA	5:F:546:ASP:HB2	2.00	0.44
5:F:561:MET:CG	5:F:571:TYR:CD2	3.01	0.44
5:F:562:ARG:NE	5:F:573:LEU:HG	2.31	0.44
1:G:75:GLN:N	1:G:76:GLU:OE2	2.50	0.44
1:G:166:ARG:O	1:G:167:PRO:C	2.56	0.44
1:G:213:PRO:O	1:G:216:ALA:HB3	2.18	0.44
1:H:13:LEU:HD12	1:H:13:LEU:O	2.17	0.44
1:H:25:LYS:HE3	1:H:202:VAL:HG11	1.99	0.44
2:I:248:GLY:O	2:I:249:GLU:HG3	2.17	0.44
2:I:298:ALA:HB3	2:I:334:GLU:CB	2.48	0.44
2:I:388:LEU:HD23	2:I:388:LEU:HA	1.54	0.44
2:I:731:ARG:NH1	2:I:962:GLU:OE1	2.51	0.44
2:I:895:LEU:HD13	2:I:900:LYS:CA	2.48	0.44
2:I:1328:LYS:HD3	2:I:1328:LYS:HA	1.87	0.44
3:J:185:ILE:HD13	3:J:188:LEU:HD12	2.00	0.44
3:J:195:GLU:HA	3:J:198:CYS:SG	2.58	0.44
3:J:397:ALA:O	3:J:401:VAL:HG13	2.18	0.44
3:J:492:SER:OG	3:J:495:ASN:N	2.49	0.44
3:J:499:ILE:O	3:J:500:ILE:HD13	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:525:MET:C	3:J:548:VAL:HG13	2.38	0.44
3:J:583:VAL:CG1	3:J:587:LEU:HB2	2.47	0.44
3:J:674:THR:OG1	3:J:675:ALA:N	2.50	0.44
3:J:842:ARG:NH1	3:J:884:SER:HB2	2.32	0.44
3:J:905:ARG:HD3	4:K:16:ARG:HD2	2.00	0.44
5:L:152:GLU:O	5:L:152:GLU:HG2	2.17	0.44
5:L:380:VAL:HG13	5:L:381:GLU:N	2.32	0.44
2:C:184:LEU:HD12	2:C:185:ASP:N	2.33	0.44
2:C:367:TYR:CE1	2:C:380:ALA:HB1	2.52	0.44
2:C:521:LEU:O	2:C:525:THR:N	2.50	0.44
2:C:670:PHE:HD1	2:C:1184:THR:HG21	1.81	0.44
2:C:727:VAL:HG13	2:C:732:ILE:HG12	1.98	0.44
2:C:788:SER:HB3	2:C:796:LEU:HA	1.99	0.44
2:C:924:VAL:HG12	2:C:1058:ARG:NH2	2.32	0.44
2:C:1025:PHE:CD1	2:C:1026:GLU:N	2.86	0.44
2:C:1321:GLU:HG2	3:D:99:ARG:HH12	1.81	0.44
3:D:59:ALA:HA	3:D:63:GLY:O	2.18	0.44
3:D:574:VAL:O	3:D:577:ALA:HB3	2.17	0.44
3:D:806:ASP:HA	3:D:1347:LEU:HD13	1.95	0.44
5:F:380:VAL:CG1	5:F:381:GLU:N	2.81	0.44
5:F:561:MET:HG3	5:F:571:TYR:HD2	1.82	0.44
5:F:608:ARG:CG	5:F:609:SER:N	2.80	0.44
2:I:131:THR:HG22	2:I:132:ASP:N	2.33	0.44
2:I:301:TYR:HE2	2:I:333:ILE:HG23	1.77	0.44
2:I:317:LEU:HA	2:I:321:LEU:HD13	1.98	0.44
2:I:332:ARG:O	2:I:333:ILE:HG13	2.18	0.44
2:I:487:LEU:HD23	2:I:487:LEU:C	2.37	0.44
2:I:609:ILE:H	2:I:609:ILE:HG12	1.50	0.44
2:I:1079:ILE:HG23	2:I:1079:ILE:O	2.17	0.44
2:I:1329:GLU:O	2:I:1332:SER:N	2.44	0.44
3:J:145:VAL:O	3:J:178:ALA:HA	2.18	0.44
3:J:859:PRO:O	3:J:862:THR:HG23	2.18	0.44
3:J:1173:ARG:N	3:J:1190:ILE:O	2.50	0.44
3:J:1317:GLU:H	3:J:1317:GLU:HG2	1.45	0.44
5:L:143:TYR:HE1	5:L:265:GLN:OE1	2.01	0.44
5:L:297:MET:HB2	5:L:297:MET:HE3	1.90	0.44
5:L:389:SER:OG	5:L:390:ILE:N	2.49	0.44
5:L:448:ARG:HD3	5:L:450:ILE:O	2.18	0.44
5:L:471:LEU:HA	5:L:471:LEU:HD23	1.44	0.44
5:L:587:ILE:HD12	5:L:587:ILE:HA	1.76	0.44
1:A:40:GLY:HA3	1:A:185:TYR:CE2	2.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:40:GLY:C	1:A:185:TYR:CE1	2.92	0.44
1:A:61:ILE:HG23	1:A:61:ILE:HD13	1.60	0.44
1:B:282:VAL:HG22	1:B:316:MET:HG3	2.00	0.44
2:C:118:LYS:O	2:C:119:GLU:C	2.54	0.44
2:C:198:ILE:O	2:C:201:ARG:HB2	2.18	0.44
2:C:406:ASN:HB3	2:C:413:GLU:O	2.17	0.44
2:C:478:ARG:HH11	2:C:481:LEU:HD23	1.82	0.44
2:C:517:GLN:O	2:C:517:GLN:HG2	2.18	0.44
2:C:553:THR:H	2:C:553:THR:HG1	1.41	0.44
2:C:1065:LYS:HG2	2:C:1235:LEU:HB2	2.00	0.44
2:C:1120:ALA:O	2:C:1124:ILE:HG12	2.18	0.44
3:D:22:ILE:HG21	3:D:1319:PHE:CE2	2.53	0.44
3:D:252:LEU:HD21	3:D:262:THR:HB	1.93	0.44
3:D:672:LEU:CD1	3:D:672:LEU:H	2.31	0.44
3:D:1138:LEU:HA	3:D:1138:LEU:HD12	1.56	0.44
3:D:1264:ALA:O	3:D:1278:GLU:N	2.50	0.44
5:F:395:THR:O	5:F:396:ASN:C	2.57	0.44
1:G:121:VAL:O	1:G:121:VAL:HG12	2.18	0.44
1:G:228:LEU:C	1:G:230:ALA:N	2.71	0.44
1:H:38:THR:HG23	1:H:39:LEU:CG	2.47	0.44
1:H:178:SER:HA	1:H:179:PRO:HD3	1.70	0.44
2:I:559:CYS:CB	2:I:662:SER:HB3	2.48	0.44
2:I:614:TYR:HD1	2:I:652:TYR:CD1	2.35	0.44
2:I:692:THR:OG1	2:I:693:LEU:N	2.49	0.44
2:I:696:ASP:OD2	2:I:798:GLN:HA	2.18	0.44
2:I:800:MET:O	2:I:1229:TYR:HD2	2.01	0.44
2:I:838:CYS:HB3	2:I:1050:VAL:HG23	2.00	0.44
2:I:964:LEU:HD22	2:I:1025:PHE:CG	2.53	0.44
2:I:1033:ARG:O	2:I:1036:ILE:HB	2.18	0.44
3:J:69:GLU:HG3	3:J:76:LYS:HA	1.99	0.44
3:J:171:GLU:HB3	3:J:172:PHE:CE2	2.52	0.44
3:J:513:MET:HE1	3:J:579:LEU:HD13	2.00	0.44
3:J:521:LYS:HB3	3:J:541:LEU:O	2.18	0.44
3:J:674:THR:HG23	3:J:677:GLU:CB	2.48	0.44
3:J:762:ASN:OD1	3:J:764:ARG:N	2.49	0.44
3:J:905:ARG:NH1	4:K:10:VAL:CG1	2.81	0.44
3:J:1167:LYS:HB2	3:J:1174:ARG:NH1	2.27	0.44
5:L:108:VAL:HG12	5:L:110:LEU:HG	2.00	0.44
5:L:558:VAL:HG11	5:L:590:ILE:HG22	2.00	0.44
1:A:45:ARG:NH1	1:B:37:HIS:HB2	2.25	0.44
1:A:233:ASP:C	1:A:234:LEU:HG	2.37	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:9:LEU:HB2	1:B:32:GLU:OE1	2.17	0.44
1:B:266:SER:HA	1:B:269:CYS:HB2	2.00	0.44
1:B:289:LEU:CA	1:B:295:LEU:HD13	2.47	0.44
2:C:10:ARG:HD3	2:C:1181:PRO:HG2	1.99	0.44
2:C:105:TYR:CD2	2:C:105:TYR:N	2.85	0.44
2:C:129:LEU:O	2:C:136:PHE:HD1	2.01	0.44
2:C:280:ASP:CB	2:C:282:VAL:HG23	2.48	0.44
2:C:377:THR:O	2:C:380:ALA:HB3	2.18	0.44
2:C:478:ARG:C	2:C:480:SER:N	2.70	0.44
2:C:582:ASN:HB3	2:C:585:GLY:CA	2.48	0.44
2:C:704:MET:O	2:C:708:VAL:N	2.44	0.44
2:C:936:ARG:NH1	5:F:495:ARG:NE	2.66	0.44
2:C:1096:ILE:HG22	2:C:1097:VAL:N	2.33	0.44
2:C:1125:GLY:HA3	2:C:1179:GLY:CA	2.43	0.44
3:D:133:ARG:HH22	5:F:95:THR:CG2	2.28	0.44
3:D:139:LEU:C	3:D:141:PHE:H	2.20	0.44
3:D:804:ALA:O	3:D:805:GLN:HB3	2.18	0.44
3:D:1328:THR:O	3:D:1331:VAL:N	2.51	0.44
5:F:295:CYS:O	5:F:329:LYS:HG3	2.18	0.44
5:F:438:ALA:O	5:F:442:SER:CB	2.65	0.44
2:I:18:ARG:CZ	2:I:620:ASN:HA	2.48	0.44
2:I:18:ARG:HH12	2:I:621:SER:H	1.64	0.44
2:I:128:PRO:HG2	2:I:506:PHE:CE1	2.52	0.44
2:I:194:LEU:C	2:I:195:PHE:CD2	2.92	0.44
2:I:428:VAL:O	2:I:431:LYS:HB3	2.17	0.44
2:I:478:ARG:HH12	2:I:482:GLY:HA2	1.83	0.44
2:I:815:SER:HG	3:J:461:PHE:HD1	1.65	0.44
2:I:1116:HIS:HE1	3:J:641:ILE:N	2.13	0.44
3:J:188:LEU:O	3:J:191:SER:OG	2.30	0.44
3:J:610:ARG:HG2	3:J:866:GLU:CG	2.43	0.44
3:J:819:GLY:HA3	3:J:882:VAL:O	2.18	0.44
3:J:1216:ALA:HB3	3:J:1219:ASP:OD2	2.18	0.44
3:J:1266:ILE:HD12	3:J:1274:PHE:HA	2.00	0.44
5:L:147:GLN:HE22	5:L:150:ARG:NH1	2.16	0.44
5:L:390:ILE:H	5:L:390:ILE:HG13	1.20	0.44
5:L:577:GLY:O	5:L:581:ASP:N	2.51	0.44
5:L:598:LEU:HD12	5:L:598:LEU:O	2.17	0.44
1:A:54:CYS:SG	1:A:148:ARG:HG3	2.58	0.43
1:A:67:GLU:HA	1:A:78:ILE:HG21	1.98	0.43
1:B:59:VAL:CG1	1:B:144:ILE:HD12	2.48	0.43
2:C:119:GLU:HB2	2:C:489:PRO:CD	2.17	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:468:LEU:HA	2:C:468:LEU:HD23	1.24	0.43
2:C:556:GLY:HA2	2:C:659:GLN:O	2.17	0.43
2:C:714:VAL:HG23	2:C:715:THR:H	1.82	0.43
2:C:728:ASP:C	2:C:730:SER:N	2.69	0.43
2:C:746:ALA:CB	2:C:974:ARG:NH2	2.81	0.43
2:C:901:LEU:HG	2:C:905:ILE:HD11	1.99	0.43
2:C:1212:LEU:C	2:C:1221:PHE:HD2	2.21	0.43
2:C:1217:THR:OG1	2:C:1219:GLU:N	2.38	0.43
2:C:1301:ARG:O	2:C:1304:MET:HB3	2.18	0.43
3:D:115:TRP:CZ2	3:D:1329:THR:HG23	2.53	0.43
3:D:291:ILE:CD1	5:F:409:ASN:HB3	2.47	0.43
3:D:378:LYS:HB3	3:D:379:PRO:CD	2.45	0.43
3:D:796:LEU:CD1	3:D:800:LEU:HD11	2.44	0.43
3:D:1155:ILE:HD11	3:D:1211:SER:HB3	2.00	0.43
3:D:1357:ILE:H	3:D:1357:ILE:HG12	1.49	0.43
5:F:105:MET:HE2	5:F:105:MET:HB3	1.87	0.43
2:I:298:ALA:N	2:I:334:GLU:O	2.42	0.43
2:I:337:PHE:C	2:I:337:PHE:HD1	2.21	0.43
2:I:377:THR:HG22	2:I:379:GLU:OE2	2.17	0.43
2:I:405:PHE:CE2	2:I:409:LEU:HD13	2.52	0.43
2:I:697:LYS:HB3	2:I:697:LYS:HE2	1.53	0.43
2:I:857:VAL:HG23	2:I:861:ALA:HB3	2.00	0.43
2:I:950:GLU:O	2:I:953:LEU:HB3	2.18	0.43
2:I:1117:LEU:O	2:I:1120:ALA:N	2.51	0.43
2:I:1209:GLN:HA	2:I:1225:VAL:O	2.18	0.43
3:J:42:GLU:HG2	5:L:451:ARG:CG	2.47	0.43
3:J:450:HIS:HE1	3:J:452:LEU:CD1	2.29	0.43
3:J:580:TRP:HB2	3:J:589:TYR:HE1	1.79	0.43
3:J:614:LEU:O	3:J:617:THR:CB	2.66	0.43
3:J:615:LYS:HD3	4:K:7:GLN:HB3	2.00	0.43
3:J:697:MET:HG3	3:J:698:MET:N	2.33	0.43
3:J:1268:ASN:HA	3:J:1274:PHE:CZ	2.53	0.43
5:L:258:GLN:HB2	5:L:259:PHE:HD1	1.83	0.43
5:L:412:LEU:O	5:L:415:ALA:N	2.51	0.43
5:L:439:ILE:O	5:L:443:ILE:HG13	2.18	0.43
1:A:227:GLN:HB3	1:B:39:LEU:HD11	1.99	0.43
1:B:92:VAL:HG12	1:B:95:LYS:CB	2.48	0.43
1:B:254:LEU:HD23	1:B:254:LEU:HA	1.74	0.43
2:C:48:GLY:N	2:C:461:GLU:OE1	2.51	0.43
2:C:182:SER:O	2:C:395:TYR:HE1	2.00	0.43
2:C:204:LEU:HD11	2:C:369:MET:CB	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:288:PRO:HG2	2:C:291:TYR:HB2	2.00	0.43
2:C:557:ARG:NH2	2:C:608:ALA:O	2.50	0.43
2:C:558:VAL:HG12	2:C:559:CYS:N	2.33	0.43
2:C:629:PHE:CD2	2:C:634:VAL:HG11	2.54	0.43
2:C:728:ASP:C	2:C:730:SER:H	2.21	0.43
2:C:812:PHE:HZ	3:D:503:SER:CB	2.31	0.43
2:C:814:ASP:OD2	2:C:1106:ARG:NH1	2.51	0.43
2:C:815:SER:CB	3:D:461:PHE:HD1	2.28	0.43
2:C:1276:TRP:CE2	3:D:801:VAL:HG21	2.53	0.43
3:D:140:TYR:O	3:D:297:ARG:HD3	2.18	0.43
3:D:317:THR:CG2	3:D:320:ASN:CB	2.96	0.43
3:D:369:PRO:HA	3:D:442:ILE:HG22	2.00	0.43
3:D:567:THR:HG22	3:D:568:SER:N	2.33	0.43
3:D:1250:ASP:N	3:D:1250:ASP:OD2	2.51	0.43
3:D:1314:LEU:HD13	3:D:1326:GLN:CB	2.48	0.43
4:E:68:GLU:O	4:E:70:GLN:N	2.51	0.43
5:F:143:TYR:CE1	5:F:147:GLN:HG3	2.54	0.43
5:F:484:ALA:CB	5:F:494:ILE:HD12	2.38	0.43
1:G:182:ARG:HG2	1:G:183:ILE:N	2.31	0.43
1:H:103:ASN:O	1:H:103:ASN:ND2	2.51	0.43
1:H:215:GLU:HA	1:H:218:ARG:HG3	2.00	0.43
2:I:157:PHE:HD1	2:I:174:ALA:HB2	1.83	0.43
2:I:310:ILE:CD1	2:I:325:LEU:HB3	2.48	0.43
2:I:374:GLU:HA	2:I:375:PRO:HD3	1.72	0.43
2:I:559:CYS:SG	2:I:662:SER:CB	3.06	0.43
2:I:755:LYS:NZ	2:I:767:GLN:O	2.39	0.43
2:I:814:ASP:O	2:I:816:ILE:HG13	2.18	0.43
2:I:972:PHE:CZ	2:I:998:LEU:HD11	2.53	0.43
2:I:1106:ARG:CD	2:I:1106:ARG:N	2.80	0.43
2:I:1214:ASP:OD2	2:I:1216:ARG:NE	2.50	0.43
3:J:288:PRO:HG2	3:J:291:ILE:HG13	1.99	0.43
3:J:306:LEU:HD22	3:J:306:LEU:O	2.19	0.43
3:J:770:LEU:H	3:J:770:LEU:CD1	2.20	0.43
3:J:868:TRP:HA	3:J:868:TRP:CE3	2.53	0.43
3:J:1152:GLU:HA	3:J:1153:PRO:HD3	1.83	0.43
3:J:1252:HIS:O	3:J:1255:VAL:N	2.50	0.43
1:A:56:VAL:CG2	1:A:173:VAL:CG2	2.96	0.43
1:A:79:LEU:HD13	1:A:79:LEU:O	2.17	0.43
2:C:39:ILE:O	2:C:39:ILE:HG23	2.18	0.43
2:C:169:LYS:C	2:C:170:VAL:HG13	2.38	0.43
2:C:210:LEU:CB	2:C:220:ILE:CD1	2.96	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:452:ARG:NH1	2:C:584:TYR:O	2.51	0.43
2:C:845:LEU:HD23	2:C:845:LEU:N	2.33	0.43
2:C:848:GLU:HG2	2:C:888:THR:HA	2.00	0.43
2:C:1289:GLU:HG3	2:C:1290:MET:N	2.28	0.43
3:D:165:TYR:CE2	3:D:178:ALA:HB3	2.53	0.43
3:D:394:ILE:O	3:D:397:ALA:N	2.51	0.43
4:E:6:VAL:HG23	4:E:6:VAL:O	2.18	0.43
4:E:86:ILE:HD13	4:E:86:ILE:N	2.33	0.43
5:F:291:CYS:HG	5:F:315:TRP:HH2	1.62	0.43
5:F:433:TRP:CZ3	5:F:434:TRP:CE2	3.06	0.43
5:F:530:LEU:HB3	5:F:533:ASP:HB2	1.95	0.43
1:G:83:LEU:N	1:G:83:LEU:HD12	2.32	0.43
1:G:100:LEU:N	1:G:100:LEU:HD12	2.33	0.43
1:H:153:VAL:HG21	1:H:158:ARG:NH1	2.33	0.43
1:H:192:VAL:HG13	1:H:193:GLU:N	2.33	0.43
1:H:197:ASP:O	1:H:198:LEU:HD22	2.18	0.43
1:H:211:ILE:HD12	1:H:212:ASP:N	2.34	0.43
2:I:5:TYR:CD1	2:I:8:LYS:HD3	2.37	0.43
2:I:81:ASP:OD2	2:I:84:GLU:HG3	2.18	0.43
2:I:130:MET:HB2	2:I:136:PHE:CE1	2.39	0.43
2:I:377:THR:O	2:I:380:ALA:HB3	2.18	0.43
2:I:404:LYS:HD2	2:I:404:LYS:HA	1.72	0.43
2:I:511:LEU:HD23	2:I:511:LEU:N	2.31	0.43
3:J:214:ARG:HH11	3:J:214:ARG:HD2	1.62	0.43
3:J:449:LEU:CD2	3:J:466:MET:SD	3.06	0.43
3:J:501:VAL:HG22	3:J:502:PRO:O	2.18	0.43
3:J:502:PRO:HB3	3:J:506:VAL:CG1	2.49	0.43
3:J:511:TYR:HE2	3:J:727:ASP:HB3	1.83	0.43
3:J:595:ALA:O	3:J:596:LEU:HB2	2.18	0.43
3:J:639:VAL:CG1	3:J:725:MET:HE3	2.49	0.43
3:J:1269:ALA:HB3	3:J:1274:PHE:CE1	2.53	0.43
5:L:252:LEU:O	5:L:255:VAL:HB	2.19	0.43
5:L:585:GLU:HA	5:L:588:ARG:CG	2.48	0.43
1:A:41:ASN:C	1:A:43:LEU:N	2.70	0.43
1:A:54:CYS:HB3	1:A:148:ARG:HG3	1.99	0.43
1:A:60:GLU:HB3	1:A:143:ARG:HE	1.83	0.43
1:A:96:ASP:HA	1:A:148:ARG:NH1	2.33	0.43
1:B:197:ASP:N	1:B:198:LEU:HD22	2.34	0.43
2:C:131:THR:HG22	2:C:132:ASP:H	1.84	0.43
2:C:204:LEU:HA	2:C:205:PRO:HD3	1.81	0.43
2:C:590:PRO:HG3	2:C:605:TYR:OH	2.17	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:644:LEU:C	2:C:645:PHE:HD1	2.22	0.43
2:C:870:ILE:HG22	2:C:944:ARG:NH1	2.31	0.43
2:C:1113:LEU:N	2:C:1113:LEU:HD12	2.33	0.43
2:C:1124:ILE:HG21	2:C:1180:MET:HE3	1.96	0.43
2:C:1130:ALA:O	2:C:1133:LYS:N	2.51	0.43
2:C:1214:ASP:OD1	2:C:1216:ARG:HG3	2.19	0.43
3:D:198:CYS:HA	3:D:201:LEU:HB2	2.00	0.43
3:D:307:LEU:HD23	3:D:307:LEU:HA	1.30	0.43
3:D:473:THR:CG2	3:D:476:ALA:HB2	2.48	0.43
3:D:653:ILE:HA	3:D:656:GLU:HG3	1.99	0.43
3:D:670:SER:HB2	3:D:672:LEU:HD12	1.94	0.43
3:D:795:TYR:O	3:D:795:TYR:HD2	2.01	0.43
3:D:1139:PRO:O	3:D:1142:ALA:N	2.51	0.43
3:D:1257:VAL:O	3:D:1260:MET:N	2.47	0.43
5:F:102:MET:O	5:F:105:MET:N	2.51	0.43
5:F:108:VAL:HA	5:F:385:ARG:CZ	2.48	0.43
5:F:347:ILE:HG22	5:F:351:THR:HG21	1.99	0.43
5:F:586:ARG:HA	5:F:586:ARG:HD2	1.80	0.43
1:G:228:LEU:HD22	1:H:224:LEU:HD23	2.00	0.43
1:H:47:LEU:HA	1:H:47:LEU:HD23	1.55	0.43
2:I:221:LEU:HD21	2:I:351:LEU:CD1	2.48	0.43
2:I:564:PRO:HG3	2:I:572:ILE:HG13	2.00	0.43
3:J:411:ILE:O	3:J:414:GLU:HB2	2.18	0.43
3:J:511:TYR:CE2	3:J:727:ASP:HB3	2.54	0.43
3:J:793:SER:O	3:J:796:LEU:N	2.51	0.43
3:J:907:HIS:ND1	3:J:907:HIS:N	2.67	0.43
3:J:931:THR:O	3:J:1137:GLY:HA3	2.19	0.43
3:J:1141:VAL:HG22	3:J:1240:VAL:HG21	2.00	0.43
3:J:1257:VAL:O	3:J:1260:MET:HG3	2.19	0.43
5:L:223:GLU:HG2	5:L:255:VAL:HG13	2.00	0.43
5:L:412:LEU:N	5:L:435:ILE:CG1	2.78	0.43
5:L:494:ILE:HG22	5:L:498:LEU:HD23	2.01	0.43
1:A:44:ARG:NH1	2:C:1087:TYR:CD1	2.86	0.43
1:A:57:THR:HG23	1:A:158:ARG:HH22	1.82	0.43
1:A:61:ILE:CG2	1:A:62:ASP:N	2.81	0.43
1:A:96:ASP:OD2	1:A:148:ARG:NH1	2.51	0.43
1:A:225:ALA:HB2	1:B:228:LEU:HD12	2.00	0.43
2:C:10:ARG:NH2	2:C:790:ASP:OD2	2.51	0.43
2:C:303:ASP:OD1	2:C:305:SER:HB3	2.17	0.43
2:C:469:VAL:O	2:C:472:GLU:HB3	2.17	0.43
2:C:521:LEU:HD13	2:C:521:LEU:C	2.38	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:884:VAL:O	2:C:917:SER:CB	2.67	0.43
2:C:1092:THR:HA	2:C:1093:PRO:HD3	1.90	0.43
3:D:126:LEU:HD12	3:D:127:LEU:H	1.83	0.43
3:D:199:GLU:O	3:D:202:ARG:HB2	2.19	0.43
3:D:412:LEU:HD23	3:D:413:ASP:N	2.33	0.43
3:D:420:PRO:HB3	3:D:437:PHE:O	2.19	0.43
3:D:491:LEU:HB2	3:D:904:ALA:CA	2.47	0.43
3:D:536:LEU:HA	3:D:536:LEU:HD13	1.54	0.43
3:D:544:LEU:CD1	3:D:575:GLY:HA3	2.49	0.43
3:D:822:MET:O	3:D:879:ALA:HA	2.18	0.43
4:E:29:GLN:O	4:E:35:LYS:N	2.47	0.43
4:E:36:ASP:HB2	4:E:37:PRO:HD3	1.95	0.43
5:F:253:SER:O	5:F:257:LYS:HG3	2.19	0.43
5:F:291:CYS:SG	5:F:315:TRP:HH2	2.42	0.43
1:H:76:GLU:HG3	1:H:80:GLU:CD	2.39	0.43
2:I:145:ILE:HD12	2:I:145:ILE:HA	1.63	0.43
2:I:149:LEU:HD12	2:I:149:LEU:HA	1.78	0.43
2:I:199:ASP:OD1	2:I:199:ASP:N	2.47	0.43
2:I:479:LEU:HD23	2:I:479:LEU:HA	1.39	0.43
2:I:673:HIS:HB3	2:I:1109:ILE:HG21	1.99	0.43
2:I:1158:LYS:HG3	2:I:1159:VAL:N	2.32	0.43
2:I:1239:VAL:HG21	3:J:445:LYS:O	2.19	0.43
2:I:1277:ALA:CA	3:J:431:ARG:HA	2.46	0.43
3:J:271:ARG:HE	3:J:271:ARG:HB2	1.04	0.43
3:J:367:GLY:HA3	3:J:448:GLN:HB2	2.01	0.43
3:J:638:SER:OG	3:J:639:VAL:N	2.52	0.43
3:J:888:CYS:SG	3:J:889:ASP:N	2.91	0.43
3:J:1160:SER:N	3:J:1206:ARG:HB3	2.33	0.43
3:J:1169:THR:HG22	3:J:1193:TRP:CH2	2.53	0.43
4:K:49:ILE:HA	4:K:52:ARG:CD	2.31	0.43
5:L:99:ARG:O	5:L:102:MET:HB2	2.19	0.43
5:L:130:VAL:HA	5:L:133:SER:HB3	2.01	0.43
1:A:44:ARG:CZ	2:C:1087:TYR:CD1	3.02	0.43
1:B:158:ARG:HA	1:B:158:ARG:HD2	1.76	0.43
1:B:290:LEU:HA	1:B:290:LEU:HD12	1.56	0.43
2:C:38:PHE:CE1	2:C:49:LEU:CD2	3.02	0.43
2:C:97:ARG:NH2	5:F:475:GLY:CA	2.81	0.43
2:C:460:ALA:O	2:C:461:GLU:C	2.56	0.43
2:C:1128:ILE:CD1	2:C:1145:ILE:HD11	2.47	0.43
3:D:79:LYS:CG	3:D:80:HIS:N	2.80	0.43
3:D:245:LEU:CG	3:D:249:LEU:HD12	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:314:ARG:HB3	3:D:314:ARG:HH11	1.82	0.43
3:D:441:LEU:HD13	3:D:441:LEU:HA	1.27	0.43
3:D:451:PRO:O	3:D:454:CYS:HB2	2.19	0.43
3:D:460:ASP:O	3:D:461:PHE:CD2	2.67	0.43
3:D:587:LEU:HA	3:D:588:PRO:HD2	1.76	0.43
3:D:872:LEU:HA	3:D:872:LEU:HD23	1.73	0.43
3:D:1167:LYS:HZ1	3:D:1170:LYS:HB2	1.81	0.43
3:D:1225:GLY:O	3:D:1228:ALA:HB3	2.19	0.43
3:D:1283:SER:O	3:D:1287:ILE:HG12	2.18	0.43
3:D:1319:PHE:CD1	3:D:1320:ILE:N	2.86	0.43
3:D:1372:ARG:HG3	3:J:853:THR:HB	2.01	0.43
5:F:419:PHE:HD1	5:F:430:TYR:CD2	2.37	0.43
1:H:175:ALA:HB1	1:H:177:TYR:CE2	2.54	0.43
1:H:211:ILE:HG13	1:H:216:ALA:HB2	2.01	0.43
2:I:14:ASP:OD1	2:I:1185:PRO:HG3	2.18	0.43
2:I:163:LYS:HE3	2:I:163:LYS:HB3	1.77	0.43
2:I:209:ILE:HA	2:I:212:ALA:HB3	2.01	0.43
2:I:262:TYR:CE1	2:I:282:VAL:HG21	2.54	0.43
2:I:805:MET:HE2	2:I:1221:PHE:CE1	2.53	0.43
2:I:852:ALA:O	2:I:854:ILE:HG13	2.18	0.43
2:I:908:GLU:CD	5:L:608:ARG:HD2	2.39	0.43
2:I:920:VAL:CG1	2:I:921:PRO:HD2	2.47	0.43
3:J:699:ASP:HA	3:J:702:GLN:HE22	1.82	0.43
3:J:739:GLN:O	3:J:763:PHE:HD2	2.01	0.43
5:L:99:ARG:HH12	5:L:103:ARG:HD2	1.83	0.43
5:L:264:LYS:N	5:L:264:LYS:CD	2.81	0.43
5:L:367:ILE:N	5:L:367:ILE:CD1	2.74	0.43
5:L:448:ARG:NH2	5:L:501:ALA:HA	2.33	0.43
5:L:572:THR:HG23	5:L:575:GLU:CB	2.49	0.43
1:A:61:ILE:CG2	1:A:64:VAL:CG2	2.75	0.43
1:A:195:ARG:CG	1:A:196:THR:H	2.31	0.43
1:B:106:GLY:O	1:B:133:LEU:HB3	2.19	0.43
2:C:28:LEU:CD2	2:C:527:LYS:HD2	2.49	0.43
2:C:148:GLN:HG2	2:C:149:LEU:N	2.34	0.43
2:C:148:GLN:HA	2:C:531:SER:O	2.18	0.43
2:C:210:LEU:CB	2:C:220:ILE:HD11	2.49	0.43
2:C:338:THR:HG21	2:C:345:PRO:CB	2.46	0.43
2:C:524:ILE:HD12	2:C:712:SER:HB3	2.00	0.43
2:C:761:GLN:C	2:C:763:THR:H	2.22	0.43
2:C:895:LEU:C	2:C:895:LEU:HD12	2.39	0.43
2:C:1143:GLU:OE2	2:C:1144:PHE:N	2.52	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1164:PHE:HD1	2:C:1164:PHE:HA	1.65	0.43
3:D:81:ARG:HA	3:D:92:VAL:HG22	2.00	0.43
3:D:123:ARG:HA	3:D:123:ARG:HD3	1.68	0.43
3:D:218:THR:O	3:D:221:ILE:HG22	2.19	0.43
3:D:294:ASN:HB2	5:F:101:TYR:HD1	1.84	0.43
3:D:622:ASP:HB3	3:D:626:TYR:HE2	1.78	0.43
3:D:1307:LEU:HD11	3:D:1311:LYS:HB3	2.00	0.43
3:D:1328:THR:O	3:D:1329:THR:C	2.57	0.43
5:F:281:ARG:HB3	5:F:281:ARG:NH1	2.34	0.43
1:G:45:ARG:NH1	1:H:38:THR:N	2.66	0.43
1:H:47:LEU:HD22	1:H:180:VAL:HG11	1.99	0.43
1:H:116:THR:O	1:H:116:THR:HG23	2.19	0.43
1:H:172:LEU:N	1:H:172:LEU:HD12	2.33	0.43
2:I:35:PHE:CD2	2:I:130:MET:HB3	2.53	0.43
2:I:337:PHE:C	2:I:337:PHE:CD1	2.92	0.43
2:I:624:ASP:C	2:I:625:GLU:HG2	2.38	0.43
2:I:701:GLY:C	2:I:1183:ALA:HA	2.39	0.43
2:I:1048:LYS:O	2:I:1049:ILE:HG13	2.18	0.43
2:I:1119:MET:CE	2:I:1204:LEU:HD13	2.48	0.43
2:I:1205:PRO:HB2	2:I:1207:SER:OG	2.19	0.43
3:J:148:GLU:C	3:J:150:GLY:N	2.71	0.43
3:J:334:LYS:O	3:J:1328:THR:OG1	2.30	0.43
3:J:510:LEU:HD12	3:J:510:LEU:HA	1.41	0.43
3:J:514:THR:CA	3:J:576:ARG:HG2	2.46	0.43
3:J:525:MET:O	3:J:548:VAL:HG13	2.18	0.43
3:J:537:TYR:C	3:J:539:SER:N	2.72	0.43
3:J:876:SER:O	3:J:877:VAL:C	2.57	0.43
5:L:228:TYR:CE2	5:L:232:ARG:HB2	2.53	0.43
5:L:253:SER:HA	5:L:256:PHE:HB3	2.01	0.43
5:L:463:LEU:HD12	5:L:487:MET:CE	2.48	0.43
1:A:155:ALA:N	1:A:174:ASP:OD1	2.40	0.43
1:A:185:TYR:HB3	1:A:203:ILE:HG12	2.00	0.43
1:B:62:ASP:H	1:B:142:MET:CE	2.31	0.43
2:C:138:ILE:CG2	2:C:139:ASN:N	2.81	0.43
2:C:901:LEU:CG	2:C:905:ILE:HD11	2.49	0.43
2:C:933:VAL:C	2:C:934:PHE:HD2	2.22	0.43
2:C:1021:LEU:O	2:C:1022:LYS:C	2.56	0.43
2:C:1072:ASN:OD1	2:C:1072:ASN:N	2.50	0.43
3:D:420:PRO:O	3:D:471:PRO:HD2	2.19	0.43
3:D:513:MET:CE	3:D:579:LEU:HD13	2.49	0.43
3:D:599:LYS:HG3	3:D:599:LYS:H	1.61	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1183:SER:HA	3:J:206:ASN:ND2	2.34	0.43
3:D:1321:SER:O	3:D:1325:PHE:CE1	2.72	0.43
4:E:38:LEU:HD12	4:E:38:LEU:N	2.34	0.43
5:F:345:GLN:HA	5:F:348:GLU:OE1	2.18	0.43
5:F:466:ILE:HD12	5:F:487:MET:HE2	1.99	0.43
5:F:572:THR:C	5:F:574:GLU:N	2.72	0.43
1:G:228:LEU:O	1:G:228:LEU:HD12	2.18	0.43
2:I:65:ASN:O	2:I:105:TYR:HD2	2.01	0.43
2:I:447:HIS:C	2:I:449:GLY:H	2.21	0.43
2:I:499:SER:O	2:I:503:LYS:CB	2.66	0.43
2:I:555:TYR:CE1	2:I:637:ARG:CZ	3.02	0.43
2:I:575:LEU:HD12	2:I:575:LEU:HA	1.44	0.43
2:I:732:ILE:CD1	2:I:753:LEU:HD21	2.47	0.43
2:I:850:ILE:HG21	2:I:870:ILE:HD11	1.99	0.43
2:I:953:LEU:C	2:I:953:LEU:HD12	2.38	0.43
2:I:1098:LEU:HD12	2:I:1098:LEU:N	2.33	0.43
2:I:1239:VAL:HG13	2:I:1240:ASP:H	1.84	0.43
2:I:1293:VAL:HG13	2:I:1300:GLY:C	2.38	0.43
3:J:164:GLN:O	3:J:168:ALA:N	2.39	0.43
3:J:269:TYR:C	3:J:271:ARG:N	2.71	0.43
3:J:426:ALA:O	3:J:428:THR:N	2.52	0.43
3:J:514:THR:OG1	3:J:595:ALA:O	2.34	0.43
3:J:584:PRO:HG2	3:J:587:LEU:CD1	2.48	0.43
3:J:909:ILE:HD12	3:J:909:ILE:HA	1.62	0.43
5:L:275:VAL:HA	5:L:278:ASP:OD2	2.19	0.43
1:B:23:HIS:ND1	1:B:206:GLU:HG2	2.34	0.43
1:B:89:ALA:HB3	1:B:124:VAL:N	2.34	0.43
1:B:232:VAL:O	1:B:233:ASP:HB2	2.19	0.43
2:C:478:ARG:NH2	2:C:482:GLY:HA2	2.34	0.43
2:C:672:GLU:CD	2:C:672:GLU:H	2.22	0.43
3:D:22:ILE:CG2	3:D:1319:PHE:CE2	3.02	0.43
3:D:253:VAL:HA	3:D:254:PRO:HD3	1.90	0.43
3:D:284:ASP:OD1	3:D:284:ASP:N	2.49	0.43
3:D:426:ALA:HB3	3:D:427:PRO:CD	2.48	0.43
3:D:514:THR:HG21	3:D:596:LEU:CB	2.42	0.43
3:D:583:VAL:HA	3:D:584:PRO:HD3	1.90	0.43
3:D:604:MET:HE3	3:D:604:MET:HB2	1.81	0.43
3:D:661:VAL:HG23	3:D:662:ALA:N	2.33	0.43
3:D:912:GLY:O	3:D:1359:ALA:HB1	2.18	0.43
3:D:1163:VAL:HG23	3:D:1175:LEU:HD21	1.93	0.43
5:F:128:ASN:O	5:F:131:GLN:N	2.52	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:562:ARG:CZ	5:F:573:LEU:HG	2.49	0.43
1:H:10:LYS:HA	1:H:11:PRO:HD3	1.77	0.43
1:H:79:LEU:CA	1:H:82:LEU:HG	2.45	0.43
2:I:4:SER:N	2:I:7:GLU:HB2	2.31	0.43
2:I:173:ASN:CA	2:I:186:PHE:O	2.67	0.43
2:I:463:GLN:NE2	2:I:501:ALA:C	2.72	0.43
2:I:496:LYS:HD2	2:I:497:PRO:CD	2.48	0.43
2:I:801:ARG:HB2	2:I:1229:TYR:CE2	2.54	0.43
2:I:903:ARG:NE	2:I:910:ALA:HB2	2.34	0.43
2:I:1204:LEU:HB3	2:I:1205:PRO:HD2	2.01	0.43
2:I:1285:TYR:HB2	3:J:479:GLU:OE1	2.18	0.43
2:I:1330:ILE:CG2	2:I:1335:ILE:HB	2.49	0.43
3:J:138:VAL:HG11	3:J:145:VAL:HG12	1.99	0.43
3:J:141:PHE:CB	3:J:293:ARG:HD3	2.49	0.43
3:J:252:LEU:HD23	3:J:262:THR:HG1	1.82	0.43
3:J:279:LEU:CB	3:J:295:GLU:HG2	2.49	0.43
3:J:416:ILE:HG12	3:J:441:LEU:CD2	2.48	0.43
3:J:816:THR:OG1	3:J:818:GLU:HB2	2.19	0.43
3:J:1343:GLU:CG	3:J:1373:ARG:NH2	2.78	0.43
5:L:130:VAL:O	5:L:134:VAL:N	2.49	0.43
5:L:377:LYS:O	5:L:381:GLU:CG	2.62	0.43
5:L:453:PRO:CB	5:L:455:HIS:CE1	2.98	0.43
1:A:36:GLY:C	1:A:187:VAL:HG11	2.40	0.43
1:A:50:SER:HA	1:A:150:ARG:HD2	2.01	0.43
1:B:10:LYS:HB2	1:B:10:LYS:HE3	1.81	0.43
2:C:59:ILE:HD11	2:C:472:GLU:HA	2.01	0.43
2:C:82:VAL:CG2	2:C:92:TYR:CE1	3.02	0.43
2:C:143:ARG:NH2	2:C:512:SER:OG	2.52	0.43
2:C:427:ASP:O	2:C:430:LYS:HB2	2.19	0.43
2:C:566:GLY:HA3	2:C:567:PRO:HD3	1.62	0.43
2:C:671:LEU:HD23	2:C:1186:VAL:CG1	2.49	0.43
2:C:677:ASN:O	2:C:681:MET:HG3	2.19	0.43
2:C:680:LEU:HD23	2:C:680:LEU:C	2.39	0.43
2:C:884:VAL:O	2:C:917:SER:HB2	2.18	0.43
2:C:976:ARG:NH2	2:C:990:ASP:OD2	2.52	0.43
2:C:1112:ILE:HD11	3:D:639:VAL:CG2	2.49	0.43
2:C:1120:ALA:CB	2:C:1199:LEU:HD23	2.39	0.43
3:D:22:ILE:CD1	3:D:1336:ALA:HB2	2.49	0.43
3:D:24:LEU:HD13	3:D:24:LEU:HA	1.36	0.43
3:D:289:ASP:HA	3:D:292:VAL:CG1	2.40	0.43
3:D:316:ILE:HG13	3:D:317:THR:O	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:842:ARG:HH22	3:D:884:SER:HB2	1.84	0.43
3:D:903:LEU:HD22	3:D:909:ILE:HD12	1.96	0.43
3:D:1158:GLU:HG3	3:D:1186:TYR:CZ	2.54	0.43
3:D:1226:VAL:C	3:D:1228:ALA:N	2.72	0.43
3:D:1297:LYS:N	3:D:1298:VAL:HA	2.33	0.43
5:F:574:GLU:C	5:F:578:LYS:HE3	2.40	0.43
1:G:44:ARG:HG3	1:G:183:ILE:HG21	1.98	0.43
1:G:77:ASP:OD1	2:I:729:ALA:HB1	2.19	0.43
1:H:37:HIS:CG	2:I:1216:ARG:HD2	2.52	0.43
1:H:224:LEU:HD12	1:H:224:LEU:O	2.18	0.43
2:I:62:TYR:OH	2:I:476:LYS:HB2	2.19	0.43
2:I:80:PHE:HB2	2:I:85:CYS:SG	2.59	0.43
2:I:127:ILE:HG13	2:I:127:ILE:O	2.19	0.43
2:I:137:VAL:O	2:I:138:ILE:HD12	2.18	0.43
2:I:202:ARG:HB2	2:I:202:ARG:NH1	2.34	0.43
2:I:211:ARG:HD3	2:I:357:ASN:C	2.38	0.43
2:I:285:ILE:HD12	2:I:286:GLU:O	2.19	0.43
2:I:478:ARG:C	2:I:480:SER:N	2.72	0.43
2:I:629:PHE:HE2	2:I:650:VAL:HG21	1.78	0.43
2:I:855:PRO:C	2:I:856:ASN:CG	2.78	0.43
2:I:1156:ARG:HG3	2:I:1156:ARG:NH1	2.34	0.43
2:I:1278:LEU:HD12	2:I:1287:LEU:HB2	2.00	0.43
3:J:326:SER:O	3:J:329:ASP:HB2	2.19	0.43
3:J:461:PHE:C	3:J:463:GLY:H	2.22	0.43
3:J:591:ILE:HG23	3:J:592:VAL:CG1	2.46	0.43
3:J:686:TRP:CE3	3:J:686:TRP:HA	2.54	0.43
3:J:847:ASP:CA	3:J:860:ARG:H	2.32	0.43
4:K:58:LEU:O	4:K:63:ILE:HG21	2.18	0.43
5:L:135:ALA:HA	5:L:256:PHE:CD2	2.54	0.43
5:L:287:ILE:HG21	5:L:315:TRP:CH2	2.53	0.43
5:L:311:THR:O	5:L:341:LEU:HB3	2.19	0.43
1:A:83:LEU:HB3	2:C:694:ARG:HH21	1.84	0.42
1:A:156:SER:C	1:A:158:ARG:N	2.71	0.42
1:B:16:ILE:CD1	1:B:214:GLU:HG3	2.48	0.42
1:B:104:LYS:HG2	1:B:110:VAL:CG1	2.49	0.42
1:B:145:LYS:CG	1:B:146:VAL:N	2.81	0.42
1:B:304:LYS:HE3	1:B:304:LYS:HB2	1.39	0.42
2:C:174:ALA:HB2	2:C:432:LEU:HD22	2.01	0.42
2:C:209:ILE:C	2:C:212:ALA:HB3	2.39	0.42
2:C:319:LEU:HD23	2:C:319:LEU:O	2.19	0.42
2:C:572:ILE:O	2:C:573:ASN:CB	2.62	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:696:ASP:O	2:C:697:LYS:HB3	2.19	0.42
2:C:805:MET:O	2:C:805:MET:HG3	2.18	0.42
2:C:811:ASN:HD22	2:C:1099:ASN:N	2.15	0.42
2:C:1029:LEU:O	2:C:1032:LYS:N	2.51	0.42
2:C:1164:PHE:HB2	2:C:1168:GLU:CG	2.48	0.42
3:D:62:PHE:CG	3:D:247:PRO:CD	3.02	0.42
3:D:97:VAL:HB	3:D:101:ARG:HG3	2.01	0.42
3:D:193:ASP:CB	3:D:196:GLN:HG2	2.46	0.42
3:D:262:THR:N	5:F:507:MET:HG3	2.34	0.42
3:D:285:LEU:HD12	3:D:285:LEU:N	2.34	0.42
3:D:580:TRP:HA	3:D:583:VAL:HG23	2.01	0.42
3:D:704:GLU:O	3:D:704:GLU:HG3	2.19	0.42
3:D:706:VAL:HG12	3:D:715:LYS:HE2	2.01	0.42
3:D:795:TYR:O	3:D:795:TYR:CD2	2.72	0.42
3:D:1143:ASP:N	3:D:1143:ASP:OD1	2.52	0.42
3:D:1156:LEU:HG	3:D:1224:ARG:NH2	2.32	0.42
3:D:1250:ASP:O	3:D:1251:LYS:C	2.57	0.42
5:F:440:THR:CG2	5:F:441:ARG:N	2.79	0.42
5:F:488:LEU:HD23	5:F:488:LEU:O	2.19	0.42
1:G:152:TYR:CZ	2:I:824:GLN:HA	2.54	0.42
1:H:153:VAL:HG21	1:H:177:TYR:HE2	1.84	0.42
2:I:82:VAL:O	2:I:86:GLN:N	2.51	0.42
2:I:154:GLY:HA3	2:I:404:LYS:HB2	2.01	0.42
2:I:558:VAL:HG12	2:I:559:CYS:N	2.33	0.42
2:I:606:LEU:HD23	2:I:611:GLU:CA	2.49	0.42
2:I:681:MET:O	2:I:685:MET:HG3	2.19	0.42
2:I:809:GLY:HA2	3:J:629:PHE:CE1	2.54	0.42
2:I:1289:GLU:OE2	3:J:473:THR:HG22	2.18	0.42
2:I:1290:MET:O	3:J:347:VAL:HG21	2.19	0.42
3:J:137:ARG:HD3	3:J:143:SER:OG	2.18	0.42
3:J:378:LYS:HA	3:J:381:ILE:HD12	2.00	0.42
3:J:491:LEU:O	3:J:492:SER:C	2.58	0.42
3:J:523:GLU:OE2	3:J:547:ARG:HD2	2.19	0.42
3:J:594:GLN:HB2	3:J:595:ALA:H	1.63	0.42
3:J:809:VAL:CG1	3:J:911:LYS:HA	2.48	0.42
3:J:814:CYS:SG	3:J:888:CYS:SG	3.16	0.42
3:J:866:GLU:CD	3:J:901:ARG:HH22	2.22	0.42
3:J:868:TRP:O	3:J:872:LEU:HB2	2.19	0.42
5:L:130:VAL:HA	5:L:133:SER:HB2	1.99	0.42
1:A:108:GLY:O	1:A:133:LEU:HB2	2.19	0.42
2:C:209:ILE:O	2:C:209:ILE:HG12	2.17	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:318:SER:OG	2:C:320:ASP:OD2	2.25	0.42
2:C:364:VAL:O	2:C:367:TYR:N	2.51	0.42
2:C:638:SER:HB3	2:C:639:LYS:H	1.70	0.42
2:C:670:PHE:HE2	2:C:1113:LEU:C	2.23	0.42
2:C:761:GLN:C	2:C:763:THR:N	2.72	0.42
2:C:775:GLU:HA	2:C:776:PRO:HD3	1.73	0.42
2:C:842:ASP:HB2	2:C:1045:GLY:O	2.20	0.42
2:C:994:ARG:HG2	2:C:997:TRP:CZ2	2.54	0.42
2:C:1109:ILE:HD11	3:D:644:MET:CE	2.50	0.42
2:C:1180:MET:HA	2:C:1181:PRO:HD3	1.49	0.42
3:D:268:LEU:CD2	3:D:305:ALA:C	2.87	0.42
3:D:278:ARG:NH1	3:D:298:MET:HE1	2.34	0.42
3:D:425:ARG:HH11	3:D:459:ALA:HB2	1.83	0.42
3:D:491:LEU:O	3:D:904:ALA:CA	2.67	0.42
3:D:514:THR:HA	3:D:576:ARG:HG2	2.00	0.42
3:D:750:PRO:C	3:D:752:GLY:N	2.72	0.42
3:D:751:ASP:HB3	3:D:753:SER:HB3	2.00	0.42
3:D:812:ASP:CA	3:D:911:LYS:HE3	2.49	0.42
3:D:1173:ARG:NH2	3:D:1192:LYS:HB3	2.34	0.42
3:D:1280:VAL:HG21	3:D:1304:ARG:CZ	2.49	0.42
3:D:1285:VAL:O	3:D:1288:ALA:HB3	2.19	0.42
3:D:1328:THR:HG22	3:D:1329:THR:N	2.34	0.42
3:D:1340:LYS:HG2	3:D:1341:ARG:N	2.34	0.42
4:E:39:VAL:HG13	4:E:40:PRO:N	2.34	0.42
2:I:548:ARG:O	3:J:780:ARG:NH1	2.47	0.42
2:I:633:LEU:N	2:I:633:LEU:CD2	2.79	0.42
2:I:732:ILE:HG21	2:I:783:LEU:HD12	2.01	0.42
2:I:816:ILE:CG2	2:I:817:LEU:N	2.83	0.42
2:I:908:GLU:OE2	5:L:608:ARG:HD2	2.19	0.42
2:I:971:LEU:O	2:I:1014:LEU:HD23	2.19	0.42
3:J:24:LEU:HD21	3:J:1337:VAL:HG12	2.01	0.42
3:J:71:LEU:HD22	3:J:71:LEU:C	2.38	0.42
3:J:130:MET:HE2	3:J:135:ILE:HG12	2.00	0.42
3:J:309:ASN:N	3:J:326:SER:OG	2.47	0.42
3:J:363:LEU:C	3:J:365:GLN:H	2.21	0.42
3:J:423:LEU:HD11	3:J:447:ILE:HD13	2.00	0.42
3:J:903:LEU:HD22	3:J:909:ILE:HD12	2.01	0.42
5:L:123:ILE:C	5:L:127:ILE:HG12	2.38	0.42
5:L:324:LYS:HB2	5:L:327:SER:OG	2.19	0.42
5:L:470:MET:HE2	5:L:470:MET:HB3	1.75	0.42
1:A:155:ALA:CB	1:A:174:ASP:OD1	2.66	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:16:ILE:O	1:B:16:ILE:HG12	2.19	0.42
1:B:77:ASP:N	1:B:77:ASP:OD1	2.50	0.42
2:C:184:LEU:HD12	2:C:185:ASP:H	1.84	0.42
2:C:230:PHE:CZ	2:C:292:ILE:HD11	2.54	0.42
2:C:325:LEU:HB2	2:C:330:HIS:CD2	2.54	0.42
2:C:484:LEU:HB2	2:C:485:ASP:H	1.44	0.42
2:C:979:LEU:HD21	2:C:1000:LEU:HD12	2.00	0.42
2:C:1148:ALA:C	2:C:1150:ASP:N	2.73	0.42
2:C:1159:VAL:HB	2:C:1160:ASP:H	1.55	0.42
2:C:1233:LEU:N	2:C:1233:LEU:CD1	2.82	0.42
2:C:1308:ILE:CG2	3:D:380:PHE:CD2	3.02	0.42
3:D:37:GLU:CB	3:D:104:HIS:CE1	2.98	0.42
3:D:84:ILE:HD12	3:D:85:CYS:O	2.19	0.42
3:D:117:LEU:HG	3:D:117:LEU:O	2.20	0.42
3:D:144:TYR:CE2	3:D:180:MET:SD	3.12	0.42
3:D:265:LEU:HA	3:D:265:LEU:HD23	1.65	0.42
3:D:291:ILE:O	3:D:294:ASN:HB3	2.20	0.42
3:D:795:TYR:CE2	3:D:799:ARG:CD	3.02	0.42
3:D:1145:PHE:HB2	3:D:1309:ILE:HD11	2.00	0.42
3:D:1219:ASP:HA	3:D:1222:ARG:HH21	1.84	0.42
3:D:1262:ARG:HH22	3:D:1312:ALA:CB	2.26	0.42
3:D:1368:ASP:HA	3:D:1371:ARG:NH2	2.32	0.42
5:F:339:ARG:HE	5:F:339:ARG:HB3	1.57	0.42
5:F:574:GLU:HA	5:F:574:GLU:OE2	2.19	0.42
1:G:29:GLU:CD	1:G:200:LYS:HE2	2.38	0.42
1:G:123:ILE:HD13	1:G:123:ILE:N	2.35	0.42
1:G:166:ARG:O	1:G:166:ARG:HD2	2.18	0.42
1:H:144:ILE:HG13	1:H:145:LYS:N	2.34	0.42
2:I:35:PHE:O	2:I:38:PHE:CB	2.67	0.42
2:I:170:VAL:HG21	2:I:172:TYR:OH	2.19	0.42
2:I:356:THR:HG21	2:I:362:ALA:HA	2.02	0.42
2:I:368:ARG:O	2:I:372:PRO:CB	2.67	0.42
2:I:845:LEU:N	2:I:845:LEU:HD23	2.34	0.42
2:I:927:THR:O	2:I:1055:ALA:N	2.33	0.42
2:I:1075:VAL:CG2	3:J:463:GLY:N	2.82	0.42
3:J:120:LEU:CB	3:J:121:PRO:CD	2.82	0.42
3:J:152:THR:OG1	3:J:153:ASN:N	2.49	0.42
3:J:238:ILE:HD13	3:J:238:ILE:HA	1.71	0.42
3:J:490:ILE:O	3:J:490:ILE:HD13	2.19	0.42
3:J:544:LEU:HD12	3:J:575:GLY:HA2	2.01	0.42
3:J:1284:ARG:NH1	3:J:1288:ALA:HB2	2.22	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:1307:LEU:HA	3:J:1307:LEU:HD12	1.54	0.42
4:K:20:VAL:O	4:K:24:ALA:HB2	2.18	0.42
5:L:227:GLN:C	5:L:230:VAL:HG12	2.40	0.42
5:L:227:GLN:O	5:L:230:VAL:HG12	2.19	0.42
5:L:410:ILE:HG22	5:L:411:GLY:N	2.34	0.42
5:L:418:LYS:O	5:L:430:TYR:HE2	2.02	0.42
2:C:70:TYR:CZ	2:C:72:SER:CA	3.02	0.42
2:C:189:ASP:OD1	2:C:193:ASN:HB2	2.20	0.42
2:C:268:ARG:O	2:C:270:THR:HG23	2.19	0.42
2:C:484:LEU:HD12	2:C:486:THR:HB	2.01	0.42
2:C:569:ILE:C	2:C:571:LEU:N	2.70	0.42
2:C:1137:GLU:O	2:C:1137:GLU:HG2	2.19	0.42
2:C:1148:ALA:C	2:C:1150:ASP:H	2.22	0.42
3:D:232:ASN:HA	3:D:236:TRP:CZ3	2.54	0.42
3:D:423:LEU:HD12	3:D:468:VAL:CG1	2.29	0.42
3:D:453:VAL:O	3:D:454:CYS:C	2.58	0.42
3:D:491:LEU:HD23	3:D:491:LEU:HA	1.40	0.42
3:D:534:GLU:O	3:D:537:TYR:N	2.45	0.42
3:D:653:ILE:O	3:D:654:ILE:C	2.58	0.42
3:D:907:HIS:ND1	3:D:907:HIS:N	2.67	0.42
3:D:1363:TYR:C	3:D:1363:TYR:CD2	2.92	0.42
4:E:42:GLU:C	4:E:44:ASP:H	2.23	0.42
5:F:233:ASP:C	5:F:235:ILE:H	2.23	0.42
5:F:466:ILE:HD12	5:F:487:MET:HE1	2.01	0.42
1:G:15:ASP:O	1:G:27:THR:N	2.38	0.42
1:H:47:LEU:HD13	1:H:205:MET:SD	2.59	0.42
2:I:62:TYR:CZ	2:I:476:LYS:CB	2.99	0.42
2:I:130:MET:HE2	2:I:136:PHE:CE1	2.54	0.42
2:I:325:LEU:HA	2:I:328:SER:CB	2.50	0.42
2:I:395:TYR:CE2	2:I:397:LEU:CD1	2.98	0.42
2:I:558:VAL:C	2:I:576:SER:OG	2.58	0.42
2:I:769:PRO:HA	2:I:784:ALA:HB1	2.01	0.42
2:I:800:MET:HG3	2:I:1096:ILE:HD11	2.00	0.42
2:I:877:VAL:HG21	2:I:883:LEU:HD21	2.01	0.42
2:I:1092:THR:HA	2:I:1093:PRO:HD3	1.83	0.42
2:I:1230:MET:HG2	2:I:1232:MET:HG3	2.02	0.42
2:I:1302:THR:HG22	5:L:531:PRO:HA	2.01	0.42
3:J:50:LYS:HB3	3:J:51:PRO:CD	2.49	0.42
3:J:120:LEU:C	3:J:120:LEU:HD22	2.39	0.42
3:J:322:ARG:HB2	3:J:322:ARG:CZ	2.49	0.42
3:J:333:GLY:O	3:J:335:GLN:N	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:398:LYS:O	3:J:401:VAL:HG22	2.20	0.42
3:J:438:GLU:OE2	3:J:481:ARG:NH2	2.53	0.42
3:J:526:VAL:HG13	3:J:549:LYS:HB2	2.00	0.42
3:J:683:ILE:O	3:J:683:ILE:HG12	2.16	0.42
3:J:740:LEU:N	3:J:740:LEU:CD1	2.81	0.42
3:J:766:GLY:O	3:J:767:LEU:HD12	2.20	0.42
4:K:63:ILE:O	4:K:66:VAL:HB	2.20	0.42
5:L:118:ASP:O	5:L:122:ARG:HG3	2.20	0.42
5:L:509:THR:HB	5:L:519:LEU:HB2	2.01	0.42
5:L:604:SER:O	5:L:607:LEU:N	2.52	0.42
1:A:35:PHE:HD1	1:A:35:PHE:HA	1.51	0.42
1:A:168:ILE:H	1:A:168:ILE:HG12	1.61	0.42
2:C:5:TYR:HD1	2:C:5:TYR:HA	1.60	0.42
2:C:221:LEU:HD11	2:C:314:ASN:HB2	2.02	0.42
2:C:244:GLU:HB2	2:C:278:GLU:OE2	2.19	0.42
2:C:960:LEU:HD22	2:C:960:LEU:N	2.34	0.42
2:C:1029:LEU:O	2:C:1030:GLU:C	2.58	0.42
2:C:1103:VAL:O	2:C:1104:PRO:C	2.57	0.42
2:C:1138:VAL:HG23	2:C:1139:ALA:N	2.35	0.42
2:C:1191:LYS:HZ3	2:C:1193:ALA:CA	2.31	0.42
2:C:1341:ASP:CG	2:C:1342:GLU:H	2.21	0.42
3:D:9:LYS:HE2	3:D:11:GLN:CA	2.49	0.42
3:D:64:PRO:HB3	3:D:69:GLU:O	2.19	0.42
3:D:83:VAL:CG2	3:D:84:ILE:N	2.83	0.42
3:D:483:LEU:N	3:D:483:LEU:HD23	2.34	0.42
3:D:1309:ILE:O	3:D:1312:ALA:HB3	2.19	0.42
4:E:81:GLN:HA	4:E:84:THR:OG1	2.18	0.42
5:F:268:TYR:O	5:F:272:SER:N	2.37	0.42
5:F:572:THR:C	5:F:574:GLU:H	2.23	0.42
1:G:35:PHE:CZ	1:H:50:SER:CB	3.01	0.42
1:H:191:ARG:NH2	3:J:413:ASP:OD2	2.52	0.42
2:I:74:ARG:C	2:I:75:LEU:HD22	2.40	0.42
2:I:495:ALA:HB3	5:L:471:LEU:HD13	2.01	0.42
2:I:1023:HIS:O	2:I:1026:GLU:N	2.52	0.42
2:I:1082:ILE:O	2:I:1085:MET:HB2	2.19	0.42
2:I:1276:TRP:CE2	3:J:801:VAL:HG21	2.54	0.42
2:I:1305:TYR:HE1	3:J:379:PRO:HG3	1.81	0.42
3:J:53:ARG:CZ	3:J:60:ARG:HD2	2.50	0.42
3:J:293:ARG:O	3:J:296:LYS:N	2.52	0.42
3:J:363:LEU:HA	3:J:450:HIS:CD2	2.54	0.42
3:J:573:THR:O	3:J:577:ALA:HB2	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:919:ALA:HB2	3:J:1255:VAL:HG11	2.00	0.42
5:L:377:LYS:O	5:L:380:VAL:HG12	2.19	0.42
1:A:33:ARG:C	1:A:35:PHE:N	2.72	0.42
1:A:41:ASN:C	1:A:43:LEU:H	2.23	0.42
1:A:118:ASP:HB3	1:A:121:VAL:HB	2.01	0.42
1:B:88:LEU:CD1	1:B:89:ALA:N	2.68	0.42
2:C:448:LEU:HD11	2:C:554:HIS:CE1	2.54	0.42
2:C:478:ARG:CZ	2:C:482:GLY:HA2	2.49	0.42
2:C:672:GLU:CG	2:C:1187:PHE:HD2	2.31	0.42
2:C:903:ARG:HH21	2:C:910:ALA:HA	1.83	0.42
2:C:952:GLN:O	2:C:956:ALA:N	2.36	0.42
2:C:1080:ASN:HB2	2:C:1085:MET:HE3	2.01	0.42
2:C:1176:LEU:HD23	2:C:1176:LEU:N	2.19	0.42
2:C:1254:VAL:HG22	2:C:1255:THR:N	2.35	0.42
3:D:377:PHE:HD1	3:D:380:PHE:CD1	2.37	0.42
3:D:491:LEU:HD13	3:D:496:GLY:O	2.19	0.42
3:D:554:GLU:OE2	3:D:588:PRO:HA	2.20	0.42
3:D:814:CYS:N	3:D:895:CYS:HB2	2.34	0.42
3:D:1340:LYS:CG	3:D:1341:ARG:N	2.82	0.42
5:F:130:VAL:O	5:F:134:VAL:HG23	2.20	0.42
5:F:383:ASN:OD1	5:F:427:PHE:HE2	2.02	0.42
5:F:448:ARG:HD2	5:F:452:ILE:CG2	2.49	0.42
5:F:456:MET:O	5:F:460:ILE:HD12	2.19	0.42
5:F:534:SER:O	5:F:537:THR:HB	2.18	0.42
5:F:567:MET:HE2	5:F:567:MET:HB2	1.92	0.42
5:F:577:GLY:C	5:F:579:GLN:N	2.71	0.42
1:G:26:VAL:HG22	1:G:27:THR:N	2.34	0.42
1:G:60:GLU:HG2	1:G:143:ARG:NH2	2.33	0.42
1:H:56:VAL:HG22	1:H:144:ILE:HD12	2.02	0.42
1:H:135:ASP:OD1	1:H:135:ASP:N	2.52	0.42
2:I:37:LYS:HD3	2:I:37:LYS:HA	1.64	0.42
2:I:74:ARG:NH1	2:I:74:ARG:HB3	2.35	0.42
2:I:189:ASP:HB2	2:I:190:PRO:HD2	2.02	0.42
2:I:238:GLN:HA	2:I:285:ILE:O	2.19	0.42
2:I:277:LEU:HD23	2:I:282:VAL:CB	2.45	0.42
2:I:327:GLN:NE2	2:I:328:SER:HB3	2.34	0.42
2:I:369:MET:SD	2:I:370:MET:N	2.93	0.42
2:I:498:ILE:N	2:I:498:ILE:CD1	2.82	0.42
2:I:525:THR:HG21	2:I:687:ARG:HD2	2.01	0.42
2:I:671:LEU:HD12	2:I:674:ASP:HB2	2.01	0.42
2:I:680:LEU:HD23	2:I:680:LEU:C	2.40	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:693:LEU:HB2	2:I:829:THR:O	2.20	0.42
2:I:791:LEU:HD23	2:I:791:LEU:HA	1.49	0.42
2:I:1116:HIS:CD2	2:I:1226:THR:CG2	3.03	0.42
3:J:285:LEU:HD12	3:J:285:LEU:N	2.35	0.42
3:J:537:TYR:C	3:J:539:SER:H	2.23	0.42
3:J:672:LEU:HD12	3:J:672:LEU:N	2.35	0.42
3:J:860:ARG:HB3	3:J:861:ASN:H	1.59	0.42
5:L:539:SER:O	5:L:542:ALA:HB3	2.19	0.42
1:A:68:TYR:HB3	2:C:756:TYR:CD2	2.54	0.42
1:B:123:ILE:HD12	1:B:123:ILE:HA	1.72	0.42
1:B:256:PRO:C	1:B:258:ASP:H	2.23	0.42
2:C:174:ALA:N	2:C:186:PHE:O	2.41	0.42
2:C:198:ILE:HD13	2:C:388:LEU:HD13	2.02	0.42
2:C:230:PHE:CD1	2:C:239:MET:HB2	2.54	0.42
2:C:339:ASN:O	2:C:345:PRO:HD3	2.19	0.42
2:C:385:PHE:CE2	2:C:390:PHE:CE2	3.08	0.42
2:C:468:LEU:O	2:C:469:VAL:C	2.57	0.42
2:C:587:LEU:HA	2:C:587:LEU:HD23	1.50	0.42
2:C:753:LEU:HA	2:C:753:LEU:HD12	1.31	0.42
2:C:805:MET:HB2	2:C:805:MET:HE2	1.74	0.42
2:C:1073:LYS:HB2	3:D:462:ASP:CB	2.49	0.42
2:C:1180:MET:O	2:C:1182:ILE:HG13	2.18	0.42
2:C:1210:ILE:CG2	2:C:1211:ARG:N	2.82	0.42
3:D:15:GLU:O	3:D:17:PHE:N	2.43	0.42
3:D:263:SER:HB2	5:F:507:MET:HE1	2.02	0.42
3:D:368:LEU:HD23	3:D:369:PRO:N	2.35	0.42
3:D:499:ILE:O	3:D:500:ILE:HD13	2.19	0.42
3:D:537:TYR:CZ	3:D:544:LEU:HD23	2.54	0.42
3:D:572:THR:HG21	3:D:589:TYR:OH	2.19	0.42
3:D:1231:ARG:CZ	3:D:1231:ARG:CB	2.97	0.42
5:F:121:LYS:HG2	5:F:421:TYR:OH	2.19	0.42
5:F:133:SER:HA	5:F:136:GLU:OE2	2.19	0.42
5:F:470:MET:HE2	5:F:483:LEU:HD12	2.02	0.42
5:F:487:MET:C	5:F:489:MET:N	2.70	0.42
5:F:540:LEU:HA	5:F:540:LEU:HD12	1.13	0.42
5:F:542:ALA:O	5:F:546:ASP:N	2.42	0.42
1:G:60:GLU:CD	1:G:143:ARG:HH21	2.23	0.42
1:G:133:LEU:HD12	1:G:138:ALA:CB	2.49	0.42
1:H:153:VAL:HA	1:H:154:PRO:HD3	1.45	0.42
2:I:100:LEU:HD23	2:I:100:LEU:HA	1.82	0.42
2:I:521:LEU:O	2:I:525:THR:HB	2.18	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:866:ASP:HA	2:I:872:TYR:OH	2.20	0.42
2:I:1336:ASN:ND2	3:J:29:MET:HE3	2.35	0.42
3:J:290:ILE:H	3:J:290:ILE:CD1	2.33	0.42
3:J:324:LEU:C	3:J:324:LEU:HD12	2.39	0.42
3:J:369:PRO:HG3	3:J:446:ALA:O	2.19	0.42
3:J:490:ILE:HG12	3:J:500:ILE:HG12	2.00	0.42
3:J:536:LEU:CD1	3:J:541:LEU:CB	2.97	0.42
3:J:615:LYS:H	3:J:615:LYS:HG3	1.53	0.42
3:J:1146:GLU:HG2	3:J:1148:ARG:CZ	2.49	0.42
3:J:1261:LEU:HD12	3:J:1261:LEU:N	2.35	0.42
4:K:30:MET:CE	4:K:46:THR:HB	2.48	0.42
5:L:240:ARG:HB3	5:L:244:THR:CB	2.34	0.42
1:A:54:CYS:HB2	1:A:147:GLN:O	2.19	0.42
1:B:102:LEU:H	1:B:142:MET:N	2.18	0.42
2:C:14:ASP:HA	2:C:1183:ALA:HB3	2.01	0.42
2:C:28:LEU:O	2:C:29:SER:C	2.57	0.42
2:C:191:LYS:HB3	2:C:191:LYS:HE2	1.87	0.42
2:C:746:ALA:CB	2:C:974:ARG:NE	2.83	0.42
2:C:820:GLU:N	2:C:1080:ASN:O	2.39	0.42
2:C:835:GLU:O	2:C:835:GLU:HG2	2.18	0.42
2:C:979:LEU:HD23	2:C:1000:LEU:CD1	2.49	0.42
3:D:42:GLU:HG3	5:F:451:ARG:CD	2.48	0.42
3:D:128:LEU:HD21	3:D:189:LEU:HD21	1.95	0.42
3:D:133:ARG:HA	3:D:133:ARG:HD2	1.77	0.42
3:D:217:LEU:O	3:D:220:ARG:N	2.53	0.42
3:D:1146:GLU:OE2	3:D:1309:ILE:HG13	2.20	0.42
5:F:254:GLU:OE1	5:F:254:GLU:HA	2.19	0.42
1:G:42:ALA:HA	1:G:45:ARG:HB3	2.01	0.42
1:G:166:ARG:O	1:G:168:ILE:HG23	2.19	0.42
1:H:41:ASN:CG	2:I:1217:THR:HA	2.40	0.42
2:I:16:GLY:HA2	2:I:1188:ASP:O	2.20	0.42
2:I:107:ARG:HA	2:I:108:GLU:HA	1.91	0.42
2:I:247:ARG:HG3	2:I:248:GLY:N	2.34	0.42
2:I:395:TYR:CE2	2:I:420:LEU:HD21	2.54	0.42
2:I:607:SER:OG	2:I:609:ILE:CG1	2.67	0.42
2:I:623:LEU:C	2:I:623:LEU:HD12	2.39	0.42
2:I:706:ARG:O	2:I:709:ALA:N	2.52	0.42
2:I:867:GLU:OE2	2:I:943:LYS:HD3	2.20	0.42
2:I:1049:ILE:CG2	2:I:1050:VAL:N	2.81	0.42
3:J:85:CYS:SG	3:J:88:CYS:N	2.90	0.42
3:J:190:LYS:HE2	3:J:190:LYS:HB2	1.78	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:262:THR:C	5:L:507:MET:HG3	2.40	0.42
3:J:343:LEU:O	3:J:343:LEU:CG	2.67	0.42
3:J:357:VAL:CA	3:J:461:PHE:CE1	3.03	0.42
3:J:358:GLY:N	3:J:359:PRO:CD	2.83	0.42
3:J:381:ILE:O	3:J:385:LEU:HG	2.20	0.42
3:J:903:LEU:HB3	3:J:905:ARG:HG3	2.02	0.42
5:L:390:ILE:CG2	5:L:436:ARG:HG3	2.48	0.42
5:L:399:LEU:HD13	5:L:399:LEU:HA	1.71	0.42
1:A:112:ALA:O	1:A:115:ILE:HG13	2.19	0.42
1:B:59:VAL:CG2	1:B:144:ILE:CD1	2.98	0.42
1:B:110:VAL:HG23	1:B:133:LEU:CD1	2.50	0.42
1:B:135:ASP:OD2	1:B:136:GLU:HB2	2.19	0.42
2:C:74:ARG:NH1	2:C:74:ARG:CB	2.78	0.42
2:C:87:ILE:HG23	2:C:1053:TYR:OH	2.20	0.42
2:C:130:MET:HG2	2:C:131:THR:O	2.19	0.42
2:C:252:SER:O	2:C:253:PHE:HB3	2.20	0.42
2:C:464:PHE:O	2:C:465:ARG:C	2.57	0.42
2:C:742:TYR:CD2	2:C:743:PRO:HD2	2.53	0.42
2:C:801:ARG:O	2:C:1094:VAL:HG23	2.20	0.42
2:C:804:PHE:HB3	2:C:1100:PRO:HB3	2.02	0.42
2:C:843:THR:C	2:C:846:GLY:H	2.23	0.42
2:C:853:ASP:C	2:C:854:ILE:HG13	2.40	0.42
2:C:996:ARG:HA	2:C:996:ARG:HD3	1.42	0.42
2:C:1087:TYR:C	2:C:1087:TYR:CD2	2.93	0.42
2:C:1108:ASN:C	2:C:1110:GLY:N	2.73	0.42
2:C:1281:TYR:CE2	3:D:431:ARG:O	2.73	0.42
2:C:1287:LEU:HD23	2:C:1288:GLN:HA	2.01	0.42
3:D:98:ARG:O	3:D:248:ASP:N	2.49	0.42
3:D:169:LEU:HD23	3:D:169:LEU:HA	1.70	0.42
3:D:363:LEU:HD11	3:D:500:ILE:HG21	2.01	0.42
3:D:432:LEU:HD13	3:D:456:ALA:HB1	2.02	0.42
3:D:589:TYR:C	3:D:591:ILE:N	2.73	0.42
3:D:605:LEU:HA	3:D:605:LEU:HD23	1.66	0.42
3:D:750:PRO:C	3:D:752:GLY:H	2.23	0.42
3:D:1252:HIS:HA	3:D:1255:VAL:CG1	2.50	0.42
3:D:1262:ARG:NH2	3:D:1312:ALA:O	2.52	0.42
4:E:25:ARG:HD3	4:E:64:LEU:CD1	2.48	0.42
5:F:133:SER:OG	5:F:361:ILE:O	2.38	0.42
1:G:133:LEU:HD12	1:G:138:ALA:HB3	2.01	0.42
2:I:287:VAL:HG23	2:I:288:PRO:N	2.34	0.42
2:I:756:TYR:N	2:I:756:TYR:HD1	2.13	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:778:GLU:HG3	2:I:779:ARG:N	2.35	0.42
2:I:871:VAL:CG2	2:I:872:TYR:N	2.83	0.42
2:I:901:LEU:HB2	5:L:563:PHE:HD2	1.85	0.42
2:I:969:ALA:O	2:I:973:SER:N	2.46	0.42
2:I:1216:ARG:HE	2:I:1216:ARG:HB2	1.70	0.42
2:I:1253:LEU:HD23	2:I:1253:LEU:O	2.20	0.42
3:J:123:ARG:HA	3:J:123:ARG:HD3	1.90	0.42
3:J:128:LEU:C	3:J:130:MET:N	2.71	0.42
3:J:183:GLU:H	3:J:183:GLU:HG2	1.37	0.42
3:J:279:LEU:HD12	3:J:295:GLU:HG3	2.02	0.42
3:J:343:LEU:O	3:J:343:LEU:CD2	2.67	0.42
3:J:460:ASP:C	3:J:461:PHE:HD2	2.22	0.42
3:J:473:THR:HG23	3:J:475:GLU:HB2	2.01	0.42
3:J:615:LYS:NZ	4:K:7:GLN:CG	2.72	0.42
3:J:802:ASP:CG	3:J:1325:PHE:HD1	2.23	0.42
3:J:1144:LEU:O	3:J:1147:ALA:N	2.53	0.42
4:K:36:ASP:HB2	4:K:37:PRO:CD	2.48	0.42
5:L:121:LYS:HA	5:L:421:TYR:HE2	1.82	0.42
5:L:433:TRP:O	5:L:437:GLN:CB	2.68	0.42
5:L:517:SER:O	5:L:518:HIS:ND1	2.34	0.42
1:A:61:ILE:CD1	1:A:142:MET:HE2	2.50	0.42
1:A:211:ILE:HD13	1:A:211:ILE:HA	1.80	0.42
1:B:201:LEU:HG	1:B:203:ILE:HD11	2.01	0.42
1:B:282:VAL:HA	1:B:314:LEU:HD12	2.01	0.42
1:B:286:GLU:CD	1:B:304:LYS:HD3	2.41	0.42
2:C:72:SER:OG	2:C:73:TYR:N	2.52	0.42
2:C:145:ILE:HG13	2:C:512:SER:HA	2.00	0.42
2:C:194:LEU:HD12	2:C:194:LEU:HA	1.64	0.42
2:C:634:VAL:HG22	2:C:635:THR:N	2.35	0.42
2:C:658:GLN:C	2:C:660:VAL:H	2.23	0.42
2:C:785:ASP:HB3	2:C:789:THR:O	2.20	0.42
2:C:802:VAL:HG22	2:C:803:ALA:N	2.35	0.42
3:D:22:ILE:HG12	3:D:23:ALA:H	1.83	0.42
3:D:197:GLU:OE1	3:D:220:ARG:NH1	2.53	0.42
3:D:225:GLU:O	3:D:229:GLN:HB2	2.20	0.42
3:D:575:GLY:O	3:D:578:ILE:N	2.53	0.42
3:D:704:GLU:O	3:D:706:VAL:HG22	2.20	0.42
3:D:759:ILE:CD1	3:D:771:GLN:HA	2.50	0.42
5:F:331:HIS:C	5:F:333:VAL:H	2.23	0.42
5:F:347:ILE:CG2	5:F:351:THR:HG23	2.49	0.42
5:F:486:ARG:C	5:F:487:MET:HG2	2.40	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:96:ASP:OD2	1:G:148:ARG:NE	2.52	0.42
1:G:224:LEU:C	1:G:224:LEU:CD2	2.88	0.42
1:G:231:PHE:HB3	1:H:218:ARG:HA	2.00	0.42
1:H:192:VAL:HG12	1:H:195:ARG:CG	2.49	0.42
2:I:27:LEU:HB2	2:I:524:ILE:HD11	2.01	0.42
2:I:216:THR:O	2:I:220:ILE:HG13	2.20	0.42
2:I:245:ARG:HG2	2:I:337:PHE:CZ	2.53	0.42
2:I:288:PRO:C	2:I:290:GLU:H	2.22	0.42
2:I:320:ASP:O	2:I:323:ALA:HB3	2.20	0.42
2:I:699:LEU:HA	2:I:699:LEU:HD23	1.13	0.42
2:I:790:ASP:O	2:I:793:GLU:N	2.42	0.42
2:I:802:VAL:CG2	2:I:1098:LEU:CD1	2.96	0.42
2:I:927:THR:HB	2:I:1055:ALA:HB3	2.01	0.42
2:I:1253:LEU:CD1	3:J:253:VAL:HG11	2.50	0.42
2:I:1305:TYR:CE2	5:L:532:LEU:HD23	2.55	0.42
3:J:123:ARG:HH12	3:J:1334:GLU:HG3	1.84	0.42
3:J:227:PHE:CE2	3:J:232:ASN:CB	2.95	0.42
3:J:288:PRO:C	3:J:290:ILE:N	2.73	0.42
3:J:457:TYR:O	3:J:458:ASN:CB	2.66	0.42
3:J:641:ILE:HD13	3:J:764:ARG:NE	2.35	0.42
3:J:735:ALA:O	3:J:738:ARG:HB3	2.20	0.42
3:J:847:ASP:N	3:J:860:ARG:HA	2.35	0.42
3:J:888:CYS:SG	3:J:890:THR:CB	3.08	0.42
5:L:296:LYS:HD2	5:L:296:LYS:HA	1.88	0.42
5:L:489:MET:HA	5:L:490:PRO:HD2	1.75	0.42
5:L:525:ASP:OD1	5:L:527:THR:N	2.50	0.42
5:L:587:ILE:CG2	5:L:588:ARG:N	2.83	0.42
1:A:61:ILE:HD12	1:A:61:ILE:HG21	1.70	0.41
1:A:75:GLN:O	2:C:729:ALA:HB2	2.20	0.41
1:A:92:VAL:HG12	1:A:121:VAL:CG2	2.42	0.41
1:A:129:VAL:O	1:A:129:VAL:HG13	2.20	0.41
1:B:143:ARG:H	1:B:143:ARG:HG3	1.63	0.41
1:B:156:SER:H	1:B:157:THR:HG1	1.64	0.41
2:C:94:ALA:HA	2:C:95:PRO:HD3	1.54	0.41
2:C:155:VAL:CG2	2:C:176:ILE:HG12	2.50	0.41
2:C:163:LYS:HE3	2:C:163:LYS:HB3	1.87	0.41
2:C:209:ILE:O	2:C:212:ALA:HB3	2.20	0.41
2:C:327:GLN:NE2	2:C:328:SER:HB3	2.35	0.41
2:C:328:SER:OG	2:C:330:HIS:CD2	2.73	0.41
2:C:487:LEU:HD23	2:C:487:LEU:O	2.19	0.41
2:C:572:ILE:HD13	2:C:572:ILE:HA	1.79	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:631:GLU:OE1	2:C:631:GLU:N	2.53	0.41
2:C:865:LEU:CD2	2:C:870:ILE:C	2.88	0.41
2:C:1021:LEU:HD23	2:C:1021:LEU:HA	1.67	0.41
2:C:1144:PHE:O	2:C:1147:ARG:N	2.43	0.41
2:C:1278:LEU:HB3	2:C:1283:ALA:HB3	2.02	0.41
3:D:88:CYS:O	3:D:90:VAL:HG23	2.20	0.41
3:D:194:LEU:C	3:D:196:GLN:N	2.73	0.41
3:D:513:MET:SD	3:D:631:TYR:CD2	3.13	0.41
3:D:550:VAL:CG2	3:D:572:THR:HG22	2.50	0.41
3:D:848:VAL:HG12	3:D:858:VAL:N	2.17	0.41
3:D:1233:ILE:HG21	3:D:1257:VAL:HG23	2.02	0.41
5:F:119:ILE:HG22	5:F:123:ILE:HG13	2.02	0.41
5:F:227:GLN:HG3	5:F:252:LEU:HD13	2.02	0.41
5:F:463:LEU:HG	5:F:483:LEU:HD21	2.00	0.41
1:G:89:ALA:C	1:G:210:THR:HG21	2.40	0.41
1:H:43:LEU:O	1:H:46:ILE:N	2.47	0.41
1:H:76:GLU:HB2	1:H:81:ILE:CG1	2.50	0.41
2:I:68:LEU:HD12	2:I:69:GLN:N	2.35	0.41
2:I:74:ARG:HH22	2:I:97:ARG:HG3	1.85	0.41
2:I:556:GLY:HA2	2:I:659:GLN:O	2.20	0.41
2:I:720:ARG:NH1	2:I:749:ASP:OD2	2.42	0.41
2:I:801:ARG:HA	2:I:1229:TYR:CE2	2.55	0.41
2:I:802:VAL:HG23	2:I:1098:LEU:CD1	2.50	0.41
2:I:871:VAL:HG22	2:I:872:TYR:N	2.35	0.41
2:I:1073:LYS:HB3	3:J:462:ASP:HB2	2.02	0.41
2:I:1111:GLN:HB2	2:I:1230:MET:HE1	2.02	0.41
2:I:1155:VAL:HG23	2:I:1156:ARG:N	2.34	0.41
2:I:1330:ILE:HG23	2:I:1335:ILE:HB	2.02	0.41
3:J:67:ASP:OD1	3:J:94:GLN:HB3	2.20	0.41
3:J:449:LEU:HD12	3:J:450:HIS:N	2.34	0.41
3:J:450:HIS:HE1	3:J:452:LEU:CG	2.33	0.41
3:J:502:PRO:HA	3:J:506:VAL:HG11	2.01	0.41
3:J:557:LYS:HA	3:J:562:GLU:O	2.20	0.41
3:J:733:SER:HG	3:J:736:GLN:CD	2.24	0.41
3:J:877:VAL:O	3:J:877:VAL:CG1	2.68	0.41
3:J:1138:LEU:CB	3:J:1139:PRO:HD3	2.35	0.41
3:J:1155:ILE:C	3:J:1210:ILE:HG12	2.39	0.41
5:L:346:GLN:HG2	5:L:350:GLU:OE2	2.20	0.41
5:L:563:PHE:O	5:L:565:ILE:HG22	2.20	0.41
1:A:11:PRO:HB3	1:A:31:LEU:HD23	2.01	0.41
1:A:148:ARG:CZ	1:A:148:ARG:HB3	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:201:LEU:HD12	1:A:201:LEU:HA	1.61	0.41
1:B:6:THR:HG1	1:B:7:GLU:CD	2.23	0.41
1:B:152:TYR:CD1	1:B:176:CYS:HA	2.51	0.41
2:C:12:ARG:NH1	2:C:701:GLY:H	2.18	0.41
2:C:68:LEU:HD12	2:C:68:LEU:HA	1.64	0.41
2:C:142:GLU:H	2:C:760:ASN:HD21	1.68	0.41
2:C:199:ASP:OD1	2:C:199:ASP:N	2.51	0.41
2:C:323:ALA:O	2:C:327:GLN:HG3	2.20	0.41
2:C:363:LEU:HD21	2:C:382:GLU:HA	2.01	0.41
2:C:534:GLY:HA3	2:C:535:PRO:HD2	1.48	0.41
2:C:615:VAL:HG13	2:C:651:ASP:N	2.31	0.41
2:C:680:LEU:HD13	3:D:783:LEU:HD11	2.02	0.41
2:C:720:ARG:HH22	2:C:742:TYR:H	1.68	0.41
2:C:746:ALA:CB	2:C:974:ARG:HH21	2.34	0.41
2:C:768:MET:HA	2:C:769:PRO:HD3	1.91	0.41
2:C:901:LEU:CA	5:F:563:PHE:CD2	3.03	0.41
2:C:1151:LEU:HD23	2:C:1151:LEU:C	2.40	0.41
2:C:1279:GLU:OE2	8:D:2004:4C4:H31	2.20	0.41
3:D:8:LEU:HD23	3:D:8:LEU:C	2.41	0.41
3:D:239:LEU:HD23	3:D:239:LEU:HA	1.72	0.41
3:D:252:LEU:HD23	3:D:252:LEU:HA	1.48	0.41
3:D:271:ARG:NE	5:F:400:GLN:HE22	2.16	0.41
3:D:355:ILE:HG22	3:D:447:ILE:HB	2.02	0.41
3:D:436:ALA:HB3	3:D:485:MET:CA	2.49	0.41
3:D:528:THR:HG23	3:D:529:GLY:H	1.85	0.41
3:D:667:GLN:O	3:D:672:LEU:HD13	2.21	0.41
3:D:720:ASN:HD21	3:D:722:ILE:HG22	1.85	0.41
3:D:1184:ASP:N	3:D:1184:ASP:OD2	2.48	0.41
3:D:1196:LEU:N	3:D:1196:LEU:HD13	2.36	0.41
1:G:67:GLU:H	1:G:67:GLU:HG2	1.46	0.41
1:G:178:SER:OG	1:G:180:VAL:CG2	2.69	0.41
1:H:39:LEU:N	1:H:39:LEU:HD23	2.32	0.41
1:H:228:LEU:HD23	1:H:228:LEU:HA	1.92	0.41
2:I:18:ARG:NH2	2:I:621:SER:N	2.68	0.41
2:I:30:ILE:HD12	2:I:30:ILE:H	1.83	0.41
2:I:563:THR:CG2	2:I:564:PRO:O	2.68	0.41
2:I:593:LYS:HG3	2:I:595:THR:HG23	2.02	0.41
2:I:681:MET:O	2:I:685:MET:HE2	2.20	0.41
2:I:692:THR:CG2	2:I:694:ARG:O	2.68	0.41
2:I:840:SER:HA	2:I:848:GLU:OE1	2.20	0.41
2:I:1279:GLU:O	3:J:914:ALA:CB	2.69	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:93:THR:HG22	3:J:94:GLN:N	2.31	0.41
3:J:622:ASP:O	3:J:625:MET:N	2.53	0.41
3:J:1167:LYS:CE	3:J:1174:ARG:HD2	2.50	0.41
3:J:1323:ALA:O	3:J:1328:THR:HG23	2.20	0.41
5:L:248:GLU:O	5:L:252:LEU:HB2	2.19	0.41
1:A:142:MET:HE2	1:A:142:MET:HB3	1.94	0.41
1:B:99:ILE:O	1:B:99:ILE:HG23	2.20	0.41
1:B:208:ASN:OD1	1:B:210:THR:HG23	2.20	0.41
1:B:211:ILE:HD12	1:B:211:ILE:HA	1.71	0.41
2:C:155:VAL:HG23	2:C:176:ILE:HG13	2.02	0.41
2:C:211:ARG:HH12	2:C:217:THR:CA	2.34	0.41
2:C:230:PHE:HB2	2:C:333:ILE:O	2.19	0.41
2:C:463:GLN:O	2:C:466:VAL:HB	2.20	0.41
2:C:483:ASP:CB	2:C:486:THR:CG2	2.81	0.41
2:C:525:THR:CG2	2:C:687:ARG:HD2	2.40	0.41
2:C:830:THR:CG2	2:C:1234:LYS:NZ	2.83	0.41
2:C:896:THR:O	2:C:900:LYS:HB2	2.20	0.41
2:C:933:VAL:HG22	2:C:1050:VAL:CG1	2.50	0.41
2:C:971:LEU:HD13	2:C:1018:TYR:CB	2.48	0.41
3:D:111:THR:CG2	3:D:303:VAL:HG21	2.47	0.41
3:D:399:LYS:HB3	3:D:403:ARG:NH2	2.33	0.41
3:D:418:GLU:HG3	4:E:45:LYS:H	1.84	0.41
3:D:646:ILE:H	3:D:646:ILE:HG12	1.57	0.41
3:D:759:ILE:HD11	3:D:771:GLN:O	2.19	0.41
3:D:800:LEU:O	3:D:803:VAL:HG12	2.20	0.41
5:F:235:ILE:HG23	5:F:242:HIS:CE1	2.54	0.41
1:G:77:ASP:OD1	1:G:77:ASP:N	2.53	0.41
1:H:72:GLU:CA	1:H:72:GLU:OE2	2.67	0.41
1:H:104:LYS:HE2	1:H:105:SER:O	2.21	0.41
1:H:133:LEU:HD12	1:H:133:LEU:HA	1.58	0.41
2:I:27:LEU:HA	2:I:27:LEU:HD23	1.58	0.41
2:I:39:ILE:HD12	2:I:75:LEU:CD2	2.51	0.41
2:I:303:ASP:CG	2:I:306:THR:HG23	2.39	0.41
2:I:865:LEU:HD22	2:I:870:ILE:C	2.41	0.41
2:I:974:ARG:HD2	2:I:1014:LEU:HD21	2.02	0.41
3:J:57:PHE:CD2	3:J:57:PHE:N	2.87	0.41
3:J:265:LEU:O	3:J:268:LEU:HB2	2.20	0.41
3:J:515:ARG:CG	3:J:516:ASP:N	2.84	0.41
3:J:606:ASN:OD1	3:J:610:ARG:NH2	2.53	0.41
3:J:804:ALA:HA	3:J:1259:GLN:HG3	2.02	0.41
3:J:1138:LEU:CB	3:J:1139:PRO:CD	2.98	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:L:390:ILE:O	5:L:393:LYS:HB2	2.20	0.41
1:B:108:GLY:O	1:B:133:LEU:HD13	2.20	0.41
1:B:281:LEU:O	1:B:283:GLN:N	2.53	0.41
2:C:18:ARG:HA	2:C:19:PRO:HD3	1.78	0.41
2:C:69:GLN:HG3	2:C:101:ARG:HB3	2.01	0.41
2:C:331:LYS:H	2:C:331:LYS:HG2	1.64	0.41
2:C:593:LYS:HB2	2:C:652:TYR:HE2	1.86	0.41
2:C:686:GLN:C	2:C:688:GLN:H	2.23	0.41
2:C:794:LEU:HD12	2:C:795:ALA:N	2.34	0.41
2:C:1193:ALA:O	2:C:1195:ILE:N	2.54	0.41
2:C:1281:TYR:HE2	3:D:431:ARG:HB2	1.83	0.41
3:D:160:LEU:HD13	3:D:165:TYR:CA	2.47	0.41
3:D:166:LEU:HA	3:D:166:LEU:HD12	1.58	0.41
3:D:261:ALA:HB2	5:F:505:ILE:HG23	2.01	0.41
3:D:261:ALA:HA	5:F:505:ILE:O	2.20	0.41
3:D:412:LEU:O	3:D:415:VAL:N	2.53	0.41
3:D:429:LEU:HG	3:D:925:GLU:HG2	2.03	0.41
3:D:475:GLU:O	3:D:478:LEU:N	2.39	0.41
3:D:1323:ALA:CA	3:D:1331:VAL:HG21	2.50	0.41
3:D:1330:ARG:O	3:D:1331:VAL:C	2.59	0.41
5:F:119:ILE:HD13	5:F:122:ARG:HE	1.85	0.41
5:F:129:GLN:HG3	5:F:364:ARG:HG2	2.02	0.41
5:F:393:LYS:NZ	5:F:436:ARG:NH2	2.69	0.41
5:F:462:LYS:CE	5:F:487:MET:SD	3.08	0.41
5:F:601:PRO:C	5:F:603:ARG:H	2.23	0.41
1:G:219:ARG:HA	1:G:222:THR:CB	2.49	0.41
1:H:60:GLU:C	1:H:61:ILE:HD13	2.41	0.41
1:H:89:ALA:HB3	1:H:124:VAL:HG11	2.01	0.41
2:I:189:ASP:OD2	2:I:190:PRO:HD2	2.19	0.41
2:I:556:GLY:HA2	2:I:660:VAL:HA	2.03	0.41
2:I:606:LEU:CD2	2:I:611:GLU:HA	2.50	0.41
2:I:798:GLN:CB	2:I:828:PHE:CE1	2.85	0.41
2:I:1099:ASN:OD1	2:I:1100:PRO:HD2	2.20	0.41
2:I:1259:LEU:HD12	2:I:1259:LEU:HA	1.56	0.41
3:J:128:LEU:HD23	3:J:192:MET:CE	2.50	0.41
3:J:140:TYR:CD1	3:J:140:TYR:N	2.87	0.41
3:J:144:TYR:CD2	3:J:180:MET:HE3	2.55	0.41
3:J:410:ASP:O	3:J:411:ILE:C	2.59	0.41
3:J:537:TYR:CE2	3:J:631:TYR:CE1	2.97	0.41
3:J:833:GLU:HA	3:J:834:PRO:HD3	1.84	0.41
3:J:864:LEU:HD23	3:J:864:LEU:N	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:1149:ARG:NH2	3:J:1153:PRO:CG	2.83	0.41
3:J:1156:LEU:HA	3:J:1208:ASP:O	2.19	0.41
3:J:1171:GLY:HA2	3:J:1193:TRP:HZ3	1.84	0.41
3:J:1266:ILE:HD12	3:J:1274:PHE:CA	2.50	0.41
5:L:496:LYS:HE2	5:L:496:LYS:HB3	1.62	0.41
1:A:154:PRO:HD2	1:A:157:THR:OG1	2.20	0.41
2:C:47:TYR:OH	2:C:398:SER:HB2	2.20	0.41
2:C:357:ASN:HD22	2:C:358:ASP:N	2.18	0.41
2:C:705:GLU:CD	2:C:705:GLU:H	2.24	0.41
2:C:813:GLU:OE1	2:C:813:GLU:HA	2.18	0.41
2:C:1133:LYS:C	2:C:1135:GLN:H	2.23	0.41
2:C:1136:GLN:O	2:C:1137:GLU:CB	2.69	0.41
2:C:1291:LEU:H	2:C:1291:LEU:HG	1.69	0.41
3:D:646:ILE:HA	3:D:647:PRO:HD3	1.93	0.41
3:D:667:GLN:HA	3:D:672:LEU:CD1	2.37	0.41
3:D:674:THR:HG23	3:D:677:GLU:CB	2.48	0.41
3:D:759:ILE:HG23	3:D:771:GLN:HG2	2.03	0.41
3:D:918:ILE:HA	3:D:921:GLN:HG3	2.01	0.41
3:D:1144:LEU:HD23	3:D:1144:LEU:HA	1.56	0.41
3:D:1241:TYR:HD2	3:D:1246:VAL:CG1	2.34	0.41
3:D:1341:ARG:HD3	3:D:1343:GLU:OE2	2.21	0.41
5:F:112:THR:O	5:F:114:GLU:N	2.54	0.41
5:F:137:TYR:O	5:F:140:ALA:HB3	2.21	0.41
5:F:346:GLN:O	5:F:350:GLU:HG3	2.21	0.41
1:G:56:VAL:HG22	1:G:57:THR:N	2.36	0.41
1:G:61:ILE:HG22	1:G:62:ASP:H	1.86	0.41
1:G:77:ASP:O	1:G:78:ILE:C	2.58	0.41
1:G:86:LYS:HB2	1:G:86:LYS:HE3	1.79	0.41
1:G:118:ASP:HB3	1:G:121:VAL:CG2	2.50	0.41
1:G:166:ARG:N	1:G:167:PRO:HD2	2.35	0.41
1:G:184:ALA:HB2	2:I:1091:GLY:CA	2.50	0.41
1:H:35:PHE:HA	1:H:38:THR:HG22	2.02	0.41
2:I:4:SER:N	2:I:7:GLU:OE1	2.54	0.41
2:I:49:LEU:O	2:I:50:GLU:C	2.57	0.41
2:I:221:LEU:O	2:I:224:PHE:N	2.37	0.41
2:I:409:LEU:HD22	2:I:427:ASP:HB3	2.02	0.41
2:I:538:LEU:H	2:I:538:LEU:CD1	2.16	0.41
2:I:697:LYS:HA	2:I:698:PRO:HD3	1.85	0.41
2:I:820:GLU:HA	2:I:1079:ILE:HD11	2.01	0.41
2:I:870:ILE:HG13	2:I:884:VAL:HG22	2.01	0.41
2:I:883:LEU:HD23	2:I:883:LEU:HA	1.72	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:1209:GLN:HG2	2:I:1225:VAL:C	2.41	0.41
3:J:327:LEU:HA	3:J:327:LEU:HD23	1.63	0.41
3:J:429:LEU:HA	3:J:429:LEU:HD13	1.69	0.41
3:J:1173:ARG:HB2	3:J:1192:LYS:HD2	2.01	0.41
3:J:1279:GLN:OE1	3:J:1279:GLN:HA	2.20	0.41
3:J:1293:GLU:O	3:J:1294:ALA:C	2.59	0.41
5:L:116:GLU:HB3	5:L:117:ILE:HD12	2.02	0.41
5:L:117:ILE:HA	5:L:120:ALA:CB	2.49	0.41
5:L:292:VAL:HG11	5:L:299:LYS:HE3	2.01	0.41
1:A:60:GLU:OE1	1:A:170:ARG:NH2	2.54	0.41
1:A:91:ARG:NH1	1:A:212:ASP:OD1	2.52	0.41
1:A:159:ILE:O	1:A:159:ILE:HG12	2.20	0.41
1:B:142:MET:CG	1:B:143:ARG:N	2.83	0.41
1:B:224:LEU:HD13	1:B:224:LEU:HA	1.86	0.41
2:C:94:ALA:N	2:C:129:LEU:CD1	2.83	0.41
2:C:103:VAL:HG12	2:C:116:ASP:HB2	2.02	0.41
2:C:131:THR:H	2:C:131:THR:HG1	1.59	0.41
2:C:202:ARG:NH1	2:C:369:MET:HG3	2.35	0.41
2:C:960:LEU:HA	2:C:963:GLU:CG	2.43	0.41
2:C:1028:LYS:HE2	2:C:1028:LYS:HB3	1.90	0.41
2:C:1138:VAL:HG23	2:C:1139:ALA:H	1.85	0.41
2:C:1193:ALA:C	2:C:1195:ILE:N	2.73	0.41
2:C:1223:ARG:HA	2:C:1224:PRO:HD3	1.77	0.41
2:C:1281:TYR:HE2	3:D:431:ARG:CB	2.34	0.41
2:C:1293:VAL:CG1	2:C:1304:MET:CB	2.94	0.41
3:D:121:PRO:O	3:D:123:ARG:NE	2.53	0.41
3:D:215:LYS:HD2	3:D:219:LYS:HZ1	1.86	0.41
3:D:252:LEU:HD21	3:D:262:THR:CG2	2.50	0.41
3:D:276:ASN:O	3:D:279:LEU:HB3	2.20	0.41
3:D:457:TYR:O	3:D:458:ASN:CB	2.67	0.41
3:D:490:ILE:HA	3:D:500:ILE:HG12	2.03	0.41
3:D:654:ILE:O	3:D:658:GLU:N	2.47	0.41
3:D:680:ASN:O	3:D:684:ASP:OD1	2.38	0.41
3:D:811:GLU:HB2	3:D:890:THR:OG1	2.21	0.41
3:D:1140:ARG:NH2	3:D:1144:LEU:HD21	2.35	0.41
5:F:530:LEU:HD22	5:F:530:LEU:HA	1.40	0.41
1:G:154:PRO:HA	1:G:174:ASP:OD1	2.21	0.41
1:H:73:GLY:HA2	1:H:134:THR:CG2	2.51	0.41
2:I:157:PHE:CD1	2:I:174:ALA:CB	3.03	0.41
2:I:174:ALA:N	2:I:186:PHE:O	2.53	0.41
2:I:517:GLN:HG2	2:I:759:SER:HB2	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:836:LEU:HB3	2:I:918:LEU:HD21	2.03	0.41
2:I:1106:ARG:H	2:I:1106:ARG:CD	2.32	0.41
2:I:1239:VAL:HG13	2:I:1240:ASP:N	2.35	0.41
2:I:1317:PRO:HG2	2:I:1318:GLY:H	1.86	0.41
3:J:42:GLU:CG	5:L:451:ARG:CG	2.98	0.41
3:J:334:LYS:HA	3:J:1328:THR:CG2	2.41	0.41
3:J:480:ALA:O	3:J:485:MET:N	2.53	0.41
3:J:512:TYR:CD2	3:J:635:SER:HB2	2.56	0.41
3:J:813:ASP:HA	3:J:895:CYS:HB2	2.03	0.41
3:J:1167:LYS:HB3	3:J:1174:ARG:CD	2.51	0.41
3:J:1210:ILE:HD13	3:J:1210:ILE:N	2.35	0.41
3:J:1262:ARG:O	3:J:1279:GLN:HA	2.20	0.41
5:L:129:GLN:O	5:L:132:CYS:HB2	2.21	0.41
5:L:139:GLU:CA	5:L:142:THR:HG22	2.50	0.41
5:L:312:SER:OG	5:L:314:THR:HG23	2.20	0.41
5:L:371:LYS:O	5:L:374:ARG:HB3	2.21	0.41
5:L:518:HIS:N	5:L:521:ASP:OD2	2.53	0.41
1:A:190:ALA:CB	1:A:200:LYS:N	2.78	0.41
1:B:248:GLU:CG	1:B:249:PHE:H	2.34	0.41
2:C:10:ARG:NH1	2:C:697:LYS:HD3	2.36	0.41
2:C:12:ARG:HG3	2:C:1181:PRO:HB2	2.02	0.41
2:C:47:TYR:CD2	2:C:461:GLU:OE2	2.74	0.41
2:C:303:ASP:N	2:C:310:ILE:HG13	2.36	0.41
2:C:478:ARG:HH22	2:C:482:GLY:HA2	1.85	0.41
2:C:690:VAL:HG11	2:C:830:THR:OG1	2.21	0.41
2:C:690:VAL:HG13	2:C:691:PRO:N	2.36	0.41
2:C:906:PHE:CZ	5:F:601:PRO:HG2	2.56	0.41
2:C:1259:LEU:HD12	2:C:1259:LEU:HA	1.66	0.41
2:C:1333:LEU:HD23	2:C:1333:LEU:HA	1.81	0.41
3:D:47:ARG:HH12	5:F:496:LYS:CE	2.29	0.41
3:D:120:LEU:HD13	3:D:120:LEU:C	2.41	0.41
3:D:265:LEU:HD13	3:D:327:LEU:CD2	2.49	0.41
3:D:369:PRO:O	3:D:370:LYS:C	2.59	0.41
1:G:130:ILE:N	1:G:130:ILE:CD1	2.83	0.41
1:H:45:ARG:O	1:H:49:SER:HB2	2.20	0.41
2:I:5:TYR:C	2:I:7:GLU:N	2.73	0.41
2:I:204:LEU:HD23	2:I:204:LEU:HA	1.70	0.41
2:I:471:VAL:O	2:I:474:ALA:N	2.53	0.41
2:I:517:GLN:HE21	2:I:759:SER:HA	1.86	0.41
2:I:658:GLN:O	2:I:661:VAL:HG22	2.21	0.41
2:I:807:TRP:CZ2	2:I:1084:ASP:O	2.74	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:1192:GLU:CA	2:I:1195:ILE:HD12	2.39	0.41
2:I:1214:ASP:OD1	2:I:1214:ASP:C	2.59	0.41
3:J:126:LEU:HD12	3:J:127:LEU:H	1.84	0.41
3:J:188:LEU:HD23	3:J:188:LEU:HA	1.61	0.41
3:J:313:GLY:C	3:J:314:ARG:CG	2.88	0.41
3:J:334:LYS:C	3:J:1328:THR:HG1	2.23	0.41
3:J:372:MET:O	3:J:376:LEU:CB	2.69	0.41
3:J:422:LEU:N	3:J:422:LEU:CD1	2.84	0.41
3:J:615:LYS:CB	4:K:5:THR:HG21	2.51	0.41
3:J:896:ALA:O	3:J:899:TYR:HB3	2.21	0.41
3:J:918:ILE:O	3:J:918:ILE:HG12	2.21	0.41
3:J:1172:LYS:HA	3:J:1190:ILE:O	2.20	0.41
3:J:1280:VAL:HG11	3:J:1304:ARG:NE	2.36	0.41
5:L:115:GLY:HA2	5:L:118:ASP:HB3	2.02	0.41
5:L:124:GLU:HA	5:L:127:ILE:HG12	2.03	0.41
5:L:433:TRP:O	5:L:437:GLN:N	2.37	0.41
5:L:544:THR:HG1	5:L:545:HIS:H	1.68	0.41
5:L:584:ARG:C	5:L:586:ARG:N	2.74	0.41
1:A:51:MET:HE1	1:A:216:ALA:HB1	2.02	0.41
1:A:123:ILE:HD13	1:A:123:ILE:HA	1.60	0.41
1:B:10:LYS:HA	1:B:11:PRO:HD2	1.65	0.41
1:B:95:LYS:HE2	1:B:98:VAL:HG23	2.02	0.41
1:B:192:VAL:CB	1:B:195:ARG:HG3	2.44	0.41
1:B:281:LEU:HD12	1:B:281:LEU:HA	1.71	0.41
1:B:311:GLY:C	1:B:312:LEU:HD12	2.41	0.41
2:C:247:ARG:HB2	2:C:274:ILE:HD11	2.03	0.41
2:C:516:ASP:C	2:C:518:ASN:OD1	2.58	0.41
2:C:660:VAL:HG22	2:C:661:VAL:HG13	2.02	0.41
2:C:746:ALA:CB	2:C:974:ARG:HE	2.34	0.41
2:C:778:GLU:N	2:C:781:ASP:OD1	2.35	0.41
2:C:817:LEU:HD23	2:C:1080:ASN:ND2	2.11	0.41
2:C:1269:ARG:CB	3:D:343:LEU:CD1	2.99	0.41
2:C:1287:LEU:O	2:C:1290:MET:N	2.53	0.41
2:C:1305:TYR:HE2	5:F:532:LEU:HA	1.85	0.41
3:D:221:ILE:HA	3:D:224:LEU:HD13	2.03	0.41
3:D:336:GLY:HA2	3:D:337:ARG:HA	1.56	0.41
3:D:412:LEU:O	3:D:415:VAL:HG22	2.19	0.41
3:D:1237:VAL:HG13	3:D:1238:GLN:N	2.35	0.41
3:D:1328:THR:O	3:D:1330:ARG:N	2.53	0.41
3:D:1332:LEU:HD12	3:D:1332:LEU:HA	1.66	0.41
4:E:41:GLU:C	4:E:43:ASN:H	2.23	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:251:LYS:O	5:F:254:GLU:HB2	2.21	0.41
5:F:482:GLU:O	5:F:485:GLU:HB3	2.20	0.41
5:F:580:PHE:O	5:F:581:ASP:HB3	2.21	0.41
1:G:85:LEU:N	1:G:85:LEU:HD23	2.35	0.41
1:H:53:GLY:N	1:H:149:GLY:O	2.46	0.41
1:H:210:THR:OG1	1:H:211:ILE:N	2.54	0.41
2:I:10:ARG:HD2	2:I:10:ARG:O	2.21	0.41
2:I:106:GLU:CG	2:I:107:ARG:N	2.84	0.41
2:I:145:ILE:HG12	2:I:456:VAL:HG13	2.02	0.41
2:I:314:ASN:O	2:I:314:ASN:ND2	2.53	0.41
2:I:519:ASN:OD1	2:I:519:ASN:C	2.58	0.41
2:I:698:PRO:HB3	2:I:1231:TYR:CD1	2.52	0.41
2:I:865:LEU:HD22	2:I:870:ILE:N	2.36	0.41
2:I:890:LYS:HD2	2:I:891:GLY:N	2.35	0.41
2:I:1272:GLU:HB3	3:J:342:LEU:HG	2.00	0.41
3:J:146:VAL:HG12	3:J:147:ILE:N	2.36	0.41
3:J:252:LEU:HD23	3:J:262:THR:CB	2.51	0.41
3:J:394:ILE:HD12	3:J:394:ILE:C	2.41	0.41
3:J:423:LEU:HD11	3:J:447:ILE:CD1	2.51	0.41
3:J:624:ILE:HA	3:J:627:THR:HG22	2.02	0.41
3:J:709:ARG:C	3:J:711:GLY:N	2.73	0.41
3:J:802:ASP:CG	3:J:1325:PHE:CD1	2.94	0.41
3:J:1191:PRO:HB2	3:J:1194:ARG:HH11	1.85	0.41
3:J:1241:TYR:C	3:J:1244:GLN:H	2.19	0.41
3:J:1356:LEU:O	3:J:1366:HIS:CE1	2.74	0.41
5:L:394:TYR:CD2	5:L:439:ILE:HD11	2.54	0.41
5:L:537:THR:O	5:L:540:LEU:N	2.50	0.41
1:A:224:LEU:C	1:A:224:LEU:CD1	2.90	0.41
1:A:231:PHE:CE2	1:B:43:LEU:CD2	3.04	0.41
1:B:91:ARG:HE	1:B:91:ARG:HB2	1.59	0.41
1:B:208:ASN:CG	1:B:210:THR:HG23	2.41	0.41
1:B:247:PRO:HA	1:B:248:GLU:HA	1.83	0.41
2:C:27:LEU:CA	2:C:528:ARG:HH12	2.34	0.41
2:C:74:ARG:NH1	2:C:121:GLU:CD	2.75	0.41
2:C:209:ILE:HA	2:C:212:ALA:CB	2.42	0.41
2:C:302:ILE:HB	2:C:308:GLU:O	2.21	0.41
2:C:383:SER:HA	2:C:386:GLU:HG2	2.03	0.41
2:C:452:ARG:HB2	2:C:586:PHE:CE2	2.56	0.41
2:C:471:VAL:CG1	2:C:472:GLU:N	2.84	0.41
2:C:551:HIS:CG	2:C:552:PRO:HD2	2.56	0.41
2:C:555:TYR:OH	2:C:618:GLN:NE2	2.44	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:726:TYR:OH	2:C:728:ASP:OD2	2.28	0.41
2:C:726:TYR:CZ	2:C:728:ASP:HB2	2.55	0.41
2:C:829:THR:HG22	2:C:830:THR:N	2.36	0.41
2:C:978:VAL:CG1	2:C:1011:LEU:HD21	2.51	0.41
2:C:1005:GLU:HG2	2:C:1006:GLU:OE2	2.21	0.41
2:C:1038:GLN:O	2:C:1038:GLN:CG	2.68	0.41
2:C:1068:GLY:HA3	2:C:1072:ASN:ND2	2.26	0.41
2:C:1148:ALA:O	2:C:1150:ASP:N	2.53	0.41
2:C:1236:ASN:O	2:C:1236:ASN:CG	2.59	0.41
2:C:1260:GLY:HA2	2:C:1265:PHE:HA	2.02	0.41
2:C:1279:GLU:O	3:D:914:ALA:HB3	2.21	0.41
2:C:1290:MET:HE2	2:C:1290:MET:HA	2.03	0.41
2:C:1315:MET:HE1	2:C:1317:PRO:HD3	2.03	0.41
2:C:1335:ILE:HG21	3:D:22:ILE:HD11	2.03	0.41
2:C:1336:ASN:OD1	2:C:1336:ASN:C	2.59	0.41
3:D:259:ARG:CD	5:F:504:PRO:HB2	2.51	0.41
3:D:309:ASN:H	3:D:326:SER:CB	2.34	0.41
3:D:352:ARG:HB3	3:D:467:ALA:HA	2.00	0.41
3:D:415:VAL:CG2	3:D:416:ILE:N	2.83	0.41
3:D:478:LEU:HA	3:D:478:LEU:HD23	1.54	0.41
3:D:500:ILE:HD13	3:D:500:ILE:HA	1.76	0.41
3:D:522:GLY:O	3:D:523:GLU:C	2.59	0.41
3:D:659:ALA:O	3:D:660:GLU:C	2.59	0.41
3:D:749:LYS:CB	3:D:750:PRO:CD	2.95	0.41
3:D:883:ARG:NE	3:D:898:CYS:SG	2.93	0.41
3:D:1135:THR:CG2	3:D:1140:ARG:HD3	2.49	0.41
3:D:1239:ASP:O	3:D:1243:LEU:HB2	2.21	0.41
3:D:1251:LYS:O	3:D:1255:VAL:CG1	2.69	0.41
3:D:1348:LYS:NZ	8:D:2004:4C4:O4	2.33	0.41
3:D:1366:HIS:O	3:D:1369:ARG:N	2.48	0.41
4:E:39:VAL:CG1	4:E:52:ARG:HH21	2.32	0.41
5:F:148:TYR:CD1	5:F:221:PHE:CZ	3.09	0.41
5:F:454:VAL:O	5:F:455:HIS:C	2.59	0.41
5:F:498:LEU:H	5:F:498:LEU:CD2	2.31	0.41
5:F:513:ASP:HA	5:F:516:ASP:CA	2.50	0.41
1:G:73:GLY:HA2	1:G:134:THR:CG2	2.51	0.41
1:G:124:VAL:HG12	1:G:125:LYS:HG2	2.03	0.41
1:G:178:SER:HA	1:G:179:PRO:HD3	1.70	0.41
1:G:207:THR:HG22	1:G:208:ASN:N	2.32	0.41
1:G:233:ASP:C	1:H:13:LEU:HD11	2.41	0.41
1:H:79:LEU:H	1:H:79:LEU:CD2	2.22	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:101:THR:CA	1:H:143:ARG:HG2	2.45	0.41
1:H:192:VAL:HB	1:H:195:ARG:HB2	2.02	0.41
2:I:82:VAL:O	2:I:85:CYS:HB2	2.20	0.41
2:I:122:VAL:HG23	5:L:472:GLN:CG	2.51	0.41
2:I:137:VAL:CG1	2:I:140:GLY:H	2.33	0.41
2:I:156:PHE:HE1	2:I:445:ILE:N	2.19	0.41
2:I:184:LEU:HD12	2:I:184:LEU:HA	1.16	0.41
2:I:295:LYS:HD3	2:I:295:LYS:HA	1.91	0.41
2:I:397:LEU:CD1	2:I:397:LEU:N	2.84	0.41
2:I:557:ARG:HH21	2:I:607:SER:C	2.23	0.41
2:I:671:LEU:HD12	2:I:671:LEU:HA	1.75	0.41
2:I:692:THR:H	2:I:692:THR:HG22	1.62	0.41
2:I:704:MET:O	2:I:707:ALA:N	2.53	0.41
2:I:775:GLU:HA	2:I:776:PRO:HD3	1.86	0.41
2:I:796:LEU:N	2:I:796:LEU:CD1	2.82	0.41
2:I:902:LEU:CD1	5:L:604:SER:HB3	2.51	0.41
2:I:919:ARG:HB3	2:I:919:ARG:NH1	2.35	0.41
2:I:953:LEU:HD13	2:I:1033:ARG:HG3	2.03	0.41
2:I:1257:GLN:HA	2:I:1258:PRO:HD3	1.79	0.41
3:J:232:ASN:CA	3:J:236:TRP:CZ3	3.00	0.41
3:J:263:SER:HA	5:L:507:MET:HE2	2.03	0.41
3:J:322:ARG:CB	3:J:322:ARG:NH1	2.84	0.41
3:J:357:VAL:HB	3:J:358:GLY:H	1.47	0.41
3:J:358:GLY:H	3:J:359:PRO:CD	2.27	0.41
3:J:432:LEU:C	3:J:434:ILE:H	2.23	0.41
3:J:438:GLU:HA	3:J:439:PRO:HD3	1.84	0.41
3:J:492:SER:OG	3:J:495:ASN:OD1	2.24	0.41
3:J:514:THR:O	3:J:595:ALA:HA	2.20	0.41
3:J:641:ILE:CG2	3:J:642:ASP:N	2.84	0.41
3:J:890:THR:HG1	3:J:895:CYS:HB3	1.86	0.41
3:J:903:LEU:CB	3:J:905:ARG:O	2.69	0.41
3:J:930:LEU:HD23	3:J:1244:GLN:HG3	2.02	0.41
3:J:1171:GLY:O	3:J:1191:PRO:HA	2.20	0.41
3:J:1241:TYR:CE2	3:J:1248:ILE:CD1	3.03	0.41
3:J:1263:LYS:HE2	3:J:1279:GLN:NE2	2.31	0.41
3:J:1347:LEU:O	3:J:1350:ASN:N	2.46	0.41
3:J:1370:MET:HE1	3:J:1373:ARG:HH11	1.84	0.41
5:L:123:ILE:HG12	5:L:375:ALA:CB	2.51	0.41
5:L:123:ILE:HG22	5:L:127:ILE:HD11	2.02	0.41
5:L:287:ILE:HD13	5:L:341:LEU:HD21	2.02	0.41
5:L:357:GLN:O	5:L:361:ILE:HG12	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:31:LEU:HD13	1:A:201:LEU:HB2	2.03	0.41
1:B:201:LEU:HD12	1:B:201:LEU:HA	1.75	0.41
1:B:224:LEU:O	1:B:227:GLN:CB	2.65	0.41
1:B:264:VAL:HA	1:B:267:ALA:HB2	2.02	0.41
1:B:303:ILE:C	1:B:305:ASP:N	2.74	0.41
2:C:122:VAL:HG22	2:C:123:TYR:O	2.21	0.41
2:C:195:PHE:CD1	2:C:203:LYS:HD3	2.56	0.41
2:C:324:LYS:C	2:C:327:GLN:HG3	2.41	0.41
2:C:489:PRO:O	2:C:490:GLN:HB2	2.21	0.41
2:C:805:MET:HE1	3:D:633:ALA:O	2.21	0.41
2:C:820:GLU:O	2:C:824:GLN:HG3	2.22	0.41
2:C:820:GLU:CB	2:C:1080:ASN:O	2.68	0.41
2:C:828:PHE:HZ	2:C:1232:MET:O	2.03	0.41
2:C:830:THR:HG22	2:C:1234:LYS:HZ1	1.85	0.41
2:C:972:PHE:CE2	2:C:1018:TYR:HE1	2.39	0.41
2:C:1018:TYR:CD2	2:C:1018:TYR:C	2.94	0.41
2:C:1196:LYS:HB3	2:C:1206:THR:HG23	2.02	0.41
2:C:1237:HIS:HB3	2:C:1242:LYS:CE	2.50	0.41
3:D:59:ALA:O	3:D:60:ARG:C	2.58	0.41
3:D:103:GLY:CA	3:D:244:VAL:HG13	2.51	0.41
3:D:303:VAL:O	3:D:306:LEU:CB	2.69	0.41
3:D:501:VAL:CG2	3:D:602:SER:HB2	2.51	0.41
3:D:536:LEU:HD12	3:D:541:LEU:HB2	2.03	0.41
3:D:1251:LYS:O	3:D:1255:VAL:HG12	2.21	0.41
5:F:462:LYS:NZ	5:F:487:MET:SD	2.93	0.41
5:F:463:LEU:CD1	5:F:487:MET:HE3	2.51	0.41
1:G:121:VAL:CG1	1:G:123:ILE:CD1	2.98	0.41
2:I:314:ASN:ND2	2:I:352:ARG:NH1	2.69	0.41
2:I:327:GLN:CD	2:I:328:SER:N	2.75	0.41
2:I:588:GLU:HB3	2:I:607:SER:HA	2.03	0.41
2:I:708:VAL:CG1	2:I:794:LEU:HD22	2.51	0.41
2:I:994:ARG:HA	2:I:997:TRP:CG	2.56	0.41
2:I:994:ARG:HA	2:I:997:TRP:CD1	2.56	0.41
2:I:1180:MET:HA	2:I:1181:PRO:HD3	1.77	0.41
3:J:40:LYS:O	3:J:55:GLY:HA2	2.21	0.41
3:J:120:LEU:HD13	3:J:121:PRO:CD	2.51	0.41
3:J:159:ILE:O	3:J:160:LEU:HD23	2.20	0.41
3:J:227:PHE:HE1	3:J:234:PRO:N	2.19	0.41
3:J:327:LEU:C	3:J:329:ASP:N	2.75	0.41
3:J:371:LYS:O	3:J:374:LEU:HB3	2.20	0.41
3:J:398:LYS:O	3:J:402:GLU:HB2	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:432:LEU:CD2	3:J:489:ASN:HB3	2.47	0.41
3:J:476:ALA:HA	3:J:479:GLU:HB2	2.03	0.41
3:J:563:LEU:H	3:J:563:LEU:CD1	2.22	0.41
3:J:627:THR:CG2	3:J:628:GLY:N	2.82	0.41
3:J:712:GLN:H	3:J:712:GLN:HG2	1.67	0.41
3:J:826:ILE:O	3:J:828:GLY:N	2.54	0.41
3:J:842:ARG:NH2	3:J:884:SER:HA	2.36	0.41
3:J:903:LEU:HD13	3:J:909:ILE:CD1	2.51	0.41
3:J:903:LEU:CB	3:J:905:ARG:CG	2.96	0.41
4:K:7:GLN:O	4:K:11:GLU:N	2.50	0.41
4:K:14:GLY:C	4:K:16:ARG:N	2.70	0.41
4:K:32:VAL:C	4:K:34:GLY:H	2.24	0.41
5:L:348:GLU:CG	5:L:355:ILE:HG12	2.51	0.41
5:L:544:THR:C	5:L:546:ASP:N	2.73	0.41
1:A:33:ARG:C	1:A:35:PHE:H	2.24	0.40
1:B:11:PRO:O	1:B:12:ARG:CB	2.69	0.40
1:B:31:LEU:HB2	1:B:199:ASP:O	2.21	0.40
1:B:106:GLY:O	1:B:133:LEU:HD23	2.21	0.40
2:C:59:ILE:HD11	2:C:472:GLU:HB2	2.02	0.40
2:C:296:VAL:CB	2:C:336:LEU:HD12	2.39	0.40
2:C:390:PHE:HA	2:C:419:ILE:CG2	2.51	0.40
2:C:393:ASP:OD1	2:C:394:ARG:HD3	2.21	0.40
2:C:625:GLU:HB3	2:C:626:GLU:OE2	2.21	0.40
2:C:800:MET:HE1	2:C:822:VAL:HG22	2.02	0.40
2:C:894:GLN:HA	2:C:894:GLN:OE1	2.21	0.40
3:D:37:GLU:HG2	3:D:38:VAL:O	2.22	0.40
3:D:198:CYS:HB3	3:D:221:ILE:HD11	2.03	0.40
3:D:510:LEU:O	3:D:511:TYR:C	2.58	0.40
3:D:515:ARG:HG3	3:D:516:ASP:N	2.35	0.40
3:D:519:ASN:CG	3:D:709:ARG:HD3	2.42	0.40
3:D:527:LEU:HD23	3:D:532:GLU:HG3	2.02	0.40
3:D:640:GLY:O	3:D:641:ILE:C	2.58	0.40
3:D:749:LYS:HB2	3:D:750:PRO:HD2	2.01	0.40
3:D:867:GLN:O	3:D:870:ASP:N	2.54	0.40
3:D:880:VAL:HG12	3:D:882:VAL:HG23	2.02	0.40
3:D:915:ILE:H	3:D:915:ILE:HG12	1.64	0.40
3:D:1241:TYR:HD2	3:D:1246:VAL:HG11	1.85	0.40
3:D:1261:LEU:HD13	3:D:1304:ARG:NH1	2.35	0.40
5:F:416:VAL:HG13	5:F:417:ASP:OD1	2.21	0.40
5:F:428:SER:C	5:F:430:TYR:H	2.25	0.40
5:F:505:ILE:CG1	5:F:506:SER:N	2.84	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:31:LEU:HD23	1:G:31:LEU:HA	1.86	0.40
1:G:45:ARG:HG3	1:G:46:ILE:CD1	2.45	0.40
1:G:79:LEU:CD1	1:G:83:LEU:CD2	2.99	0.40
1:G:159:ILE:O	1:G:159:ILE:HG23	2.22	0.40
1:H:18:GLN:HA	1:H:24:ALA:HA	2.01	0.40
1:H:59:VAL:HG12	1:H:61:ILE:HD13	2.03	0.40
2:I:14:ASP:OD2	2:I:1156:ARG:HD3	2.21	0.40
2:I:656:SER:OG	2:I:657:THR:N	2.55	0.40
2:I:673:HIS:CE1	3:J:765:GLU:C	2.94	0.40
2:I:705:GLU:O	2:I:794:LEU:N	2.53	0.40
2:I:782:VAL:HG21	2:I:792:GLY:HA3	2.03	0.40
2:I:817:LEU:HD13	2:I:1097:VAL:CG2	2.50	0.40
2:I:974:ARG:HB3	2:I:1014:LEU:CD2	2.49	0.40
3:J:450:HIS:CE1	3:J:452:LEU:HG	2.57	0.40
3:J:518:VAL:HB	3:J:707:ILE:HD13	2.03	0.40
3:J:754:ILE:H	3:J:754:ILE:HG22	1.52	0.40
3:J:783:LEU:O	3:J:787:ALA:HB2	2.21	0.40
3:J:931:THR:O	3:J:931:THR:HG22	2.20	0.40
3:J:1308:GLY:O	3:J:1309:ILE:C	2.59	0.40
3:J:1356:LEU:HD22	3:J:1357:ILE:O	2.21	0.40
4:K:22:VAL:HG12	4:K:54:ILE:CD1	2.51	0.40
5:L:124:GLU:HA	5:L:127:ILE:CG1	2.51	0.40
5:L:274:ARG:O	5:L:278:ASP:N	2.51	0.40
5:L:324:LYS:HB3	5:L:325:PRO:HD2	2.03	0.40
1:A:37:HIS:CD2	1:A:187:VAL:CG2	3.03	0.40
1:A:82:LEU:HD13	1:A:173:VAL:CG1	2.52	0.40
1:B:133:LEU:CD1	1:B:133:LEU:N	2.85	0.40
2:C:59:ILE:CD1	2:C:475:VAL:CG2	2.93	0.40
2:C:138:ILE:HG22	2:C:139:ASN:N	2.35	0.40
2:C:602:GLU:HG3	2:C:602:GLU:O	2.20	0.40
2:C:1099:ASN:OD1	2:C:1101:LEU:HB2	2.21	0.40
2:C:1198:LEU:HD22	2:C:1198:LEU:HA	1.83	0.40
2:C:1315:MET:HE1	2:C:1317:PRO:HB3	2.03	0.40
3:D:14:THR:CG2	3:D:15:GLU:N	2.83	0.40
3:D:94:GLN:NE2	3:D:96:LYS:HB2	2.36	0.40
3:D:101:ARG:O	3:D:246:PRO:HG3	2.20	0.40
3:D:294:ASN:HA	3:D:297:ARG:NH2	2.36	0.40
3:D:494:ALA:HB3	3:D:495:ASN:OD1	2.21	0.40
3:D:678:ARG:O	3:D:679:TYR:C	2.60	0.40
3:D:814:CYS:H	3:D:895:CYS:HB2	1.82	0.40
3:D:1164:SER:OG	3:D:1176:VAL:O	2.33	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1171:GLY:HA2	3:D:1193:TRP:CZ3	2.57	0.40
3:D:1284:ARG:HA	3:D:1287:ILE:HD11	2.03	0.40
3:D:1371:ARG:HE	3:J:854:ALA:HA	1.85	0.40
5:F:361:ILE:CG1	5:F:362:ASN:H	2.34	0.40
1:G:196:THR:OG1	1:G:197:ASP:N	2.55	0.40
1:G:218:ARG:HD3	1:H:233:ASP:C	2.42	0.40
1:H:33:ARG:HH12	2:I:1081:PRO:CB	2.34	0.40
2:I:13:LYS:HD2	2:I:1157:GLN:OE1	2.22	0.40
2:I:91:THR:HB	2:I:138:ILE:O	2.21	0.40
2:I:104:ILE:O	2:I:114:VAL:N	2.45	0.40
2:I:494:ASN:OD1	2:I:497:PRO:HD3	2.21	0.40
2:I:564:PRO:CD	2:I:572:ILE:HB	2.51	0.40
2:I:653:MET:HG2	2:I:654:ASP:N	2.36	0.40
2:I:744:GLY:CA	2:I:1013:GLN:HB3	2.51	0.40
2:I:903:ARG:HE	2:I:910:ALA:HB2	1.86	0.40
3:J:691:ASP:O	3:J:694:SER:HB3	2.21	0.40
3:J:812:ASP:O	3:J:895:CYS:HB2	2.21	0.40
3:J:848:VAL:HB	3:J:857:LEU:HD11	2.03	0.40
3:J:885:VAL:HG12	3:J:894:VAL:HG13	2.03	0.40
3:J:1269:ALA:HB2	3:J:1274:PHE:CE1	2.56	0.40
3:J:1327:GLU:O	3:J:1328:THR:C	2.60	0.40
3:J:1359:ALA:O	3:J:1360:GLY:C	2.59	0.40
5:L:116:GLU:CB	5:L:117:ILE:HD12	2.50	0.40
5:L:139:GLU:C	5:L:141:ILE:N	2.70	0.40
5:L:381:GLU:HA	5:L:384:LEU:HD11	2.03	0.40
5:L:392:LYS:O	5:L:395:THR:HG23	2.21	0.40
5:L:448:ARG:HD2	5:L:452:ILE:HB	2.03	0.40
5:L:479:THR:HG1	5:L:482:GLU:HB2	1.86	0.40
5:L:507:MET:HE2	5:L:507:MET:HB2	1.78	0.40
1:A:23:HIS:HA	1:A:206:GLU:HA	2.03	0.40
1:A:60:GLU:N	1:A:143:ARG:O	2.50	0.40
1:A:124:VAL:HG21	1:A:209:GLY:C	2.41	0.40
1:A:152:TYR:HD1	2:C:824:GLN:CD	2.24	0.40
1:B:54:CYS:SG	1:B:148:ARG:HG3	2.62	0.40
1:B:55:ALA:HB2	1:B:176:CYS:C	2.40	0.40
1:B:215:GLU:HG2	1:B:216:ALA:H	1.87	0.40
2:C:543:ALA:HB1	2:C:547:VAL:CG2	2.52	0.40
2:C:811:ASN:HB2	2:C:815:SER:O	2.20	0.40
2:C:1064:ASP:OD1	2:C:1239:VAL:HG12	2.22	0.40
2:C:1164:PHE:C	2:C:1166:ASP:N	2.70	0.40
3:D:58:CYS:SG	3:D:60:ARG:CB	3.06	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:79:LYS:O	3:D:81:ARG:HG2	2.21	0.40
3:D:212:THR:HA	3:D:215:LYS:HZ1	1.85	0.40
3:D:425:ARG:HH11	3:D:459:ALA:CB	2.35	0.40
3:D:501:VAL:HG22	3:D:502:PRO:N	2.36	0.40
3:D:703:THR:C	3:D:705:THR:N	2.74	0.40
3:D:753:SER:O	3:D:753:SER:OG	2.39	0.40
3:D:1156:LEU:CD1	3:D:1209:VAL:HA	2.48	0.40
3:D:1159:ILE:HD12	3:D:1160:SER:H	1.87	0.40
3:D:1237:VAL:HG13	3:D:1238:GLN:HG2	2.03	0.40
5:F:249:ILE:O	5:F:253:SER:OG	2.39	0.40
5:F:412:LEU:HB2	5:F:435:ILE:HD11	2.03	0.40
5:F:419:PHE:CD1	5:F:430:TYR:CD2	3.09	0.40
5:F:484:ALA:HA	5:F:494:ILE:HD11	2.04	0.40
5:F:500:ILE:O	5:F:500:ILE:CG2	2.68	0.40
5:F:598:LEU:CA	5:F:601:PRO:HG3	2.51	0.40
2:I:155:VAL:HG23	2:I:176:ILE:HG12	2.02	0.40
2:I:209:ILE:O	2:I:209:ILE:HG12	2.21	0.40
2:I:540:ARG:HE	2:I:568:ASN:CB	2.34	0.40
2:I:592:ARG:O	2:I:652:TYR:HD2	2.04	0.40
2:I:690:VAL:HG23	2:I:1236:ASN:HB3	2.02	0.40
2:I:728:ASP:C	2:I:730:SER:N	2.75	0.40
2:I:850:ILE:HD13	2:I:886:LYS:HB2	2.02	0.40
2:I:858:GLY:O	2:I:861:ALA:N	2.49	0.40
2:I:964:LEU:HD12	2:I:964:LEU:HA	1.86	0.40
2:I:1099:ASN:HA	2:I:1100:PRO:HD3	1.73	0.40
2:I:1145:ILE:CG2	2:I:1146:GLN:N	2.77	0.40
3:J:24:LEU:CD2	3:J:1337:VAL:HA	2.52	0.40
3:J:403:ARG:O	3:J:404:GLU:HB2	2.22	0.40
3:J:474:LEU:O	3:J:475:GLU:C	2.58	0.40
3:J:868:TRP:HA	3:J:868:TRP:HE3	1.87	0.40
3:J:1238:GLN:NE2	3:J:1248:ILE:O	2.44	0.40
3:J:1264:ALA:CB	3:J:1280:VAL:HG22	2.50	0.40
4:K:17:PHE:O	4:K:19:LEU:N	2.53	0.40
5:L:340:ALA:O	5:L:344:LEU:HB2	2.22	0.40
5:L:387:VAL:CG2	5:L:435:ILE:HD13	2.49	0.40
5:L:601:PRO:C	5:L:603:ARG:N	2.74	0.40
1:A:110:VAL:HG21	1:A:140:ILE:HD11	2.03	0.40
1:B:81:ILE:CD1	1:B:131:CYS:HB3	2.52	0.40
1:B:149:GLY:O	1:B:177:TYR:HB3	2.22	0.40
1:B:192:VAL:HG23	1:B:198:LEU:HD23	2.03	0.40
1:B:215:GLU:O	1:B:218:ARG:N	2.55	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:314:LEU:HG	1:B:315:GLY:N	2.36	0.40
2:C:402:ARG:NH2	2:C:424:ASP:OD2	2.46	0.40
2:C:403:MET:HA	2:C:414:ILE:O	2.21	0.40
2:C:452:ARG:HB2	2:C:586:PHE:CD2	2.57	0.40
2:C:513:GLN:HE21	2:C:513:GLN:HB3	1.59	0.40
2:C:607:SER:O	2:C:608:ALA:C	2.59	0.40
2:C:631:GLU:HB3	2:C:633:LEU:H	1.87	0.40
2:C:746:ALA:HB2	2:C:974:ARG:CZ	2.52	0.40
2:C:1080:ASN:HB2	2:C:1085:MET:CE	2.52	0.40
2:C:1132:LEU:HD22	2:C:1177:ARG:CZ	2.50	0.40
2:C:1210:ILE:HD12	2:C:1227:VAL:HG22	2.04	0.40
2:C:1287:LEU:HD23	2:C:1287:LEU:C	2.40	0.40
2:C:1293:VAL:O	2:C:1293:VAL:HG12	2.21	0.40
3:D:71:LEU:HB3	3:D:88:CYS:SG	2.61	0.40
3:D:474:LEU:HD12	3:D:474:LEU:HA	1.07	0.40
3:D:679:TYR:OH	3:D:754:ILE:HG23	2.21	0.40
3:D:919:ALA:O	3:D:920:ALA:C	2.59	0.40
3:D:1262:ARG:NH2	3:D:1312:ALA:C	2.74	0.40
3:D:1322:ALA:CA	3:D:1325:PHE:CE1	2.97	0.40
4:E:36:ASP:CB	4:E:37:PRO:CD	2.81	0.40
5:F:387:VAL:HG22	5:F:435:ILE:CD1	2.51	0.40
2:I:12:ARG:NH1	2:I:701:GLY:HA3	2.37	0.40
2:I:74:ARG:HH12	2:I:97:ARG:CG	2.34	0.40
2:I:157:PHE:CE1	2:I:174:ALA:HB1	2.57	0.40
2:I:210:LEU:HD23	2:I:210:LEU:HA	1.63	0.40
2:I:582:ASN:ND2	2:I:586:PHE:HB2	2.31	0.40
2:I:819:SER:C	2:I:821:ARG:N	2.74	0.40
2:I:881:ASP:OD1	2:I:881:ASP:N	2.55	0.40
2:I:882:ILE:HD12	2:I:882:ILE:N	2.35	0.40
2:I:976:ARG:NH2	2:I:986:ALA:O	2.51	0.40
2:I:1122:LYS:CB	2:I:1229:TYR:HE1	2.35	0.40
2:I:1254:VAL:HG22	2:I:1255:THR:N	2.35	0.40
2:I:1285:TYR:O	2:I:1287:LEU:N	2.54	0.40
3:J:94:GLN:H	3:J:94:GLN:HG3	1.73	0.40
3:J:139:LEU:HB3	3:J:140:TYR:CE1	2.56	0.40
3:J:145:VAL:C	3:J:178:ALA:HB1	2.42	0.40
3:J:169:LEU:HD23	3:J:169:LEU:HA	1.74	0.40
3:J:181:GLY:O	3:J:182:ALA:C	2.59	0.40
3:J:506:VAL:HG22	3:J:507:VAL:N	2.36	0.40
3:J:543:SER:OG	3:J:545:HIS:ND1	2.54	0.40
3:J:793:SER:HA	3:J:796:LEU:HB3	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:836:ARG:NH2	3:J:870:ASP:OD1	2.55	0.40
5:L:231:THR:HG21	5:L:249:ILE:HA	2.03	0.40
5:L:360:ASP:O	5:L:363:ARG:HB3	2.21	0.40
5:L:389:SER:O	5:L:392:LYS:CB	2.69	0.40
5:L:461:ASN:O	5:L:465:ARG:CB	2.70	0.40
5:L:498:LEU:HD13	5:L:498:LEU:HA	1.61	0.40
1:A:22:THR:O	1:A:206:GLU:HA	2.21	0.40
1:A:38:THR:HA	1:B:45:ARG:HD3	2.04	0.40
1:B:85:LEU:HD23	1:B:85:LEU:H	1.84	0.40
1:B:182:ARG:HH11	1:B:182:ARG:CG	2.29	0.40
2:C:180:ARG:CG	2:C:181:GLY:N	2.85	0.40
2:C:211:ARG:NH2	2:C:351:LEU:CD2	2.85	0.40
2:C:324:LYS:CA	2:C:327:GLN:HG3	2.52	0.40
2:C:665:ALA:O	2:C:668:ILE:N	2.47	0.40
2:C:685:MET:O	2:C:1235:LEU:HD11	2.22	0.40
2:C:720:ARG:HB2	2:C:736:VAL:HG13	2.03	0.40
2:C:843:THR:O	2:C:846:GLY:N	2.55	0.40
2:C:873:ILE:HG13	2:C:873:ILE:H	1.77	0.40
2:C:1099:ASN:HA	2:C:1100:PRO:HD3	1.35	0.40
2:C:1172:LEU:O	2:C:1172:LEU:HD22	2.22	0.40
2:C:1272:GLU:HB2	3:D:342:LEU:HB2	2.03	0.40
2:C:1319:MET:HG3	2:C:1320:PRO:CD	2.52	0.40
3:D:53:ARG:NH1	3:D:60:ARG:CD	2.85	0.40
3:D:215:LYS:O	3:D:219:LYS:HB2	2.20	0.40
3:D:697:MET:HG3	3:D:698:MET:H	1.83	0.40
3:D:821:MET:HE3	3:D:879:ALA:HB1	2.04	0.40
3:D:1220:ILE:O	3:D:1224:ARG:N	2.55	0.40
3:D:1231:ARG:CZ	3:D:1231:ARG:HB3	2.52	0.40
3:D:1249:ASN:OD1	3:D:1249:ASN:C	2.59	0.40
3:D:1262:ARG:HB2	3:D:1262:ARG:HH11	1.86	0.40
4:E:63:ILE:H	4:E:63:ILE:HD12	1.87	0.40
5:F:147:GLN:HA	5:F:150:ARG:HB2	2.03	0.40
5:F:400:GLN:H	5:F:400:GLN:HG2	1.65	0.40
5:F:482:GLU:O	5:F:485:GLU:CB	2.70	0.40
5:F:555:GLU:O	5:F:558:VAL:N	2.47	0.40
1:H:33:ARG:HH12	2:I:1081:PRO:HB3	1.87	0.40
1:H:74:VAL:HG12	1:H:76:GLU:H	1.86	0.40
2:I:175:ARG:HE	2:I:175:ARG:HB2	1.74	0.40
2:I:237:LEU:HD13	2:I:237:LEU:HA	1.54	0.40
2:I:397:LEU:O	2:I:398:SER:CB	2.70	0.40
2:I:400:VAL:H	2:I:400:VAL:HG23	1.57	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:463:GLN:NE2	2:I:501:ALA:HB1	2.36	0.40
2:I:520:PRO:CG	2:I:714:VAL:HG21	2.51	0.40
2:I:617:ALA:CB	2:I:653:MET:HA	2.50	0.40
2:I:804:PHE:CE1	2:I:1098:LEU:CD2	3.05	0.40
3:J:22:ILE:HD11	3:J:1336:ALA:HB2	2.03	0.40
3:J:57:PHE:CE1	3:J:252:LEU:HB2	2.56	0.40
3:J:1138:LEU:O	3:J:1141:VAL:HB	2.22	0.40
3:J:1289:ASN:CG	3:J:1290:ARG:HH12	2.25	0.40
5:L:385:ARG:O	5:L:388:ILE:HB	2.22	0.40
5:L:502:LYS:HB3	5:L:504:PRO:CB	2.51	0.40
5:L:549:ALA:C	5:L:551:LEU:H	2.25	0.40

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

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:170:GLU:OE1	3:J:165:TYR:OH[3_444]	2.04	0.16
2:C:44:GLU:OE1	5:F:599:ARG:NE[4_445]	2.09	0.11

## 5.3 Torsion angles [i](#)

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

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	227/329 (69%)	179 (79%)	35 (15%)	13 (6%)	1	21
1	B	283/329 (86%)	167 (59%)	60 (21%)	56 (20%)	0	2
1	G	225/329 (68%)	177 (79%)	40 (18%)	8 (4%)	3	29
1	H	212/329 (64%)	170 (80%)	35 (16%)	7 (3%)	4	31
2	C	1338/1342 (100%)	1019 (76%)	256 (19%)	63 (5%)	2	24
2	I	1338/1342 (100%)	1031 (77%)	261 (20%)	46 (3%)	3	30
3	D	1162/1407 (83%)	850 (73%)	234 (20%)	78 (7%)	1	18

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
3	J	1151/1407 (82%)	851 (74%)	232 (20%)	68 (6%)	1	20
4	E	87/91 (96%)	69 (79%)	14 (16%)	4 (5%)	2	24
4	K	77/91 (85%)	61 (79%)	13 (17%)	3 (4%)	3	27
5	F	454/613 (74%)	342 (75%)	89 (20%)	23 (5%)	2	23
5	L	454/613 (74%)	336 (74%)	94 (21%)	24 (5%)	2	22
All	All	7008/8222 (85%)	5252 (75%)	1363 (19%)	393 (6%)	2	21

All (393) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	136	GLU
1	A	162	GLU
1	B	11	PRO
1	B	12	ARG
1	B	44	ARG
1	B	45	ARG
1	B	82	LEU
1	B	121	VAL
1	B	156	SER
1	B	158	ARG
1	B	214	GLU
1	B	215	GLU
1	B	216	ALA
1	B	229	GLU
1	B	272	ALA
1	B	273	GLU
1	B	276	HIS
1	B	298	LYS
1	B	305	ASP
2	C	36	GLN
2	C	40	GLU
2	C	160	ASP
2	C	162	GLY
2	C	169	LYS
2	C	170	VAL
2	C	298	ALA
2	C	417	SER
2	C	482	GLY
2	C	484	LEU
2	C	490	GLN

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
2	C	510	GLN
2	C	647	ARG
2	C	714	VAL
2	C	1030	GLU
2	C	1107	MET
2	C	1159	VAL
2	C	1165	SER
2	C	1317	PRO
3	D	10	ALA
3	D	46	TYR
3	D	49	PHE
3	D	89	GLY
3	D	119	SER
3	D	120	LEU
3	D	248	ASP
3	D	334	LYS
3	D	335	GLN
3	D	343	LEU
3	D	345	LYS
3	D	426	ALA
3	D	496	GLY
3	D	521	LYS
3	D	590	SER
3	D	614	LEU
3	D	660	GLU
3	D	705	THR
3	D	745	GLY
3	D	751	ASP
3	D	776	THR
3	D	777	HIS
3	D	804	ALA
3	D	806	ASP
3	D	826	ILE
3	D	828	GLY
3	D	831	VAL
3	D	850	LYS
3	D	899	TYR
3	D	1169	THR
3	D	1293	GLU
3	D	1294	ALA
4	E	25	ARG
4	E	33	GLY

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
5	F	107	THR
5	F	108	VAL
5	F	113	ARG
5	F	241	SER
5	F	422	ARG
5	F	475	GLY
5	F	486	ARG
5	F	490	PRO
5	F	513	ASP
5	F	582	VAL
5	F	601	PRO
1	G	162	GLU
1	G	177	TYR
1	G	229	GLU
1	G	232	VAL
1	H	11	PRO
1	H	193	GLU
2	I	160	ASP
2	I	162	GLY
2	I	164	THR
2	I	169	LYS
2	I	170	VAL
2	I	298	ALA
2	I	482	GLY
2	I	490	GLN
2	I	688	GLN
2	I	1073	LYS
2	I	1107	MET
2	I	1151	LEU
2	I	1153	ALA
2	I	1159	VAL
2	I	1165	SER
2	I	1245	ALA
2	I	1283	ALA
2	I	1317	PRO
3	J	17	PHE
3	J	49	PHE
3	J	120	LEU
3	J	151	MET
3	J	182	ALA
3	J	334	LYS
3	J	335	GLN

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
3	J	343	LEU
3	J	345	LYS
3	J	357	VAL
3	J	426	ALA
3	J	496	GLY
3	J	503	SER
3	J	614	LEU
3	J	710	ASP
3	J	745	GLY
3	J	751	ASP
3	J	769	VAL
3	J	804	ALA
3	J	828	GLY
3	J	831	VAL
3	J	850	LYS
3	J	868	TRP
3	J	899	TYR
3	J	1294	ALA
3	J	1326	GLN
4	K	15	ASN
4	K	25	ARG
4	K	33	GLY
5	L	107	THR
5	L	108	VAL
5	L	113	ARG
5	L	241	SER
5	L	475	GLY
5	L	490	PRO
5	L	513	ASP
5	L	564	GLY
5	L	582	VAL
5	L	601	PRO
1	A	30	PRO
1	A	157	THR
1	A	177	TYR
1	A	196	THR
1	B	16	ILE
1	B	36	GLY
1	B	46	ILE
1	B	78	ILE
1	B	86	LYS
1	B	93	GLN

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	B	135	ASP
1	B	154	PRO
1	B	159	ILE
1	B	179	PRO
1	B	226	GLU
1	B	228	LEU
1	B	232	VAL
1	B	251	PRO
1	B	257	VAL
1	B	279	GLY
1	B	281	LEU
1	B	293	PRO
2	C	164	THR
2	C	276	GLN
2	C	491	ASP
2	C	596	ASP
2	C	666	SER
2	C	687	ARG
2	C	756	TYR
2	C	820	GLU
2	C	907	GLY
2	C	1029	LEU
2	C	1106	ARG
2	C	1109	ILE
2	C	1151	LEU
2	C	1245	ALA
3	D	16	GLU
3	D	300	GLN
3	D	328	ALA
3	D	336	GLY
3	D	417	ARG
3	D	431	ARG
3	D	503	SER
3	D	523	GLU
3	D	559	ALA
3	D	584	PRO
3	D	626	TYR
3	D	710	ASP
3	D	1297	LYS
3	D	1314	LEU
5	F	401	PHE
5	F	516	ASP

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
5	F	564	GLY
1	G	14	VAL
1	G	167	PRO
2	I	36	GLN
2	I	276	GLN
2	I	484	LEU
2	I	523	GLU
2	I	756	TYR
2	I	1154	ASP
2	I	1247	SER
3	J	46	TYR
3	J	80	HIS
3	J	89	GLY
3	J	248	ASP
3	J	270	ARG
3	J	328	ALA
3	J	349	TYR
3	J	428	THR
3	J	584	PRO
3	J	626	TYR
3	J	660	GLU
3	J	705	THR
3	J	1314	LEU
5	L	139	GLU
5	L	401	PHE
5	L	402	LEU
5	L	422	ARG
5	L	476	ARG
5	L	486	ARG
1	A	62	ASP
1	A	134	THR
1	A	167	PRO
1	B	20	SER
1	B	138	ALA
1	B	157	THR
1	B	193	GLU
1	B	213	PRO
2	C	299	LYS
2	C	745	GLU
2	C	812	PHE
2	C	1207	SER
2	C	1295	SER

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
3	D	17	PHE
3	D	151	MET
3	D	182	ALA
3	D	196	GLN
3	D	352	ARG
3	D	428	THR
3	D	538	ARG
3	D	877	VAL
3	D	1281	GLU
1	H	229	GLU
2	I	573	ASN
2	I	666	SER
2	I	1059	ARG
2	I	1192	GLU
3	J	300	GLN
3	J	523	GLU
3	J	538	ARG
3	J	560	ASN
3	J	696	ALA
3	J	801	VAL
3	J	809	VAL
3	J	1297	LYS
3	J	1349	GLU
5	L	140	ALA
5	L	544	THR
5	L	560	ARG
1	A	195	ARG
1	B	49	SER
1	B	85	LEU
1	B	136	GLU
1	B	219	ARG
1	B	261	GLU
1	B	304	LYS
2	C	465	ARG
2	C	485	ASP
2	C	541	GLU
2	C	600	THR
2	C	686	GLN
2	C	1043	ALA
2	C	1256	GLN
3	D	98	ARG
3	D	341	ASN

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Mol	Chain	Res	Type
3	D	358	GLY
3	D	696	ALA
3	D	809	VAL
3	D	868	TRP
3	D	1289	ASN
5	F	502	LYS
5	F	581	ASP
1	H	20	SER
1	H	138	ALA
2	I	698	PRO
2	I	812	PHE
2	I	813	GLU
2	I	1256	GLN
2	I	1261	GLY
3	J	322	ARG
3	J	352	ARG
3	J	429	LEU
3	J	559	ALA
3	J	712	GLN
3	J	721	SER
3	J	877	VAL
3	J	1284	ARG
3	J	1328	THR
5	L	116	GLU
5	L	504	PRO
1	A	14	VAL
1	B	37	HIS
1	B	99	ILE
1	B	313	SER
2	C	15	PHE
2	C	120	GLN
2	C	508	SER
2	C	608	ALA
2	C	696	ASP
2	C	897	PRO
2	C	1192	GLU
2	C	1326	LEU
3	D	13	LYS
3	D	79	LYS
3	D	232	ASN
3	D	270	ARG
3	D	322	ARG

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
3	D	704	GLU
3	D	769	VAL
3	D	851	PRO
3	D	1157	ALA
4	E	69	ARG
5	F	428	SER
5	F	578	LYS
2	I	159	SER
2	I	572	ILE
2	I	907	GLY
2	I	1286	THR
3	J	454	CYS
3	J	618	VAL
3	J	1169	THR
5	L	575	GLU
5	L	581	ASP
1	B	144	ILE
1	B	178	SER
1	B	217	ILE
1	B	247	PRO
2	C	342	ASP
2	C	398	SER
2	C	460	ALA
2	C	464	PHE
2	C	697	LYS
3	D	80	HIS
3	D	618	VAL
3	D	650	LYS
3	D	694	SER
4	E	16	ARG
5	F	116	GLU
5	F	519	LEU
1	G	62	ASP
1	G	156	SER
1	H	41	ASN
2	I	237	LEU
2	I	596	ASP
2	I	1164	PHE
3	J	87	LYS
3	J	417	ARG
3	J	749	LYS
3	J	1361	THR

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Mol	Chain	Res	Type
5	L	502	LYS
1	B	74	VAL
3	D	439	PRO
3	J	344	GLY
2	C	208	ILE
2	C	570	GLY
2	C	983	GLY
2	C	1103	VAL
2	I	530	ILE
2	I	921	PRO
2	I	983	GLY
3	J	829	GLY
3	J	851	PRO
1	B	119	GLY
3	D	357	VAL
5	F	505	ILE
3	J	1360	GLY
1	A	78	ILE
1	B	98	VAL
2	C	905	ILE
3	D	303	VAL
5	F	127	ILE
2	I	552	PRO
1	A	29	GLU
1	H	107	ILE
2	I	524	ILE
5	F	504	PRO

### 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	197/286 (69%)	164 (83%)	33 (17%)	<b>2</b>   <b>14</b>
1	B	250/286 (87%)	169 (68%)	81 (32%)	<b>0</b>   <b>2</b>
1	G	193/286 (68%)	171 (89%)	22 (11%)	<b>5</b>   <b>27</b>

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	H	183/286 (64%)	149 (81%)	34 (19%)	1	11
2	C	1154/1157 (100%)	982 (85%)	172 (15%)	3	18
2	I	1151/1157 (100%)	987 (86%)	164 (14%)	3	20
3	D	963/1168 (82%)	768 (80%)	195 (20%)	1	9
3	J	965/1168 (83%)	780 (81%)	185 (19%)	1	10
4	E	72/75 (96%)	65 (90%)	7 (10%)	8	33
4	K	67/75 (89%)	60 (90%)	7 (10%)	7	30
5	F	406/540 (75%)	346 (85%)	60 (15%)	3	18
5	L	385/540 (71%)	339 (88%)	46 (12%)	5	25
All	All	5986/7024 (85%)	4980 (83%)	1006 (17%)	2	14

All (1006) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	7	GLU
1	A	8	PHE
1	A	11	PRO
1	A	12	ARG
1	A	19	VAL
1	A	26	VAL
1	A	27	THR
1	A	35	PHE
1	A	44	ARG
1	A	56	VAL
1	A	61	ILE
1	A	64	VAL
1	A	66	HIS
1	A	67	GLU
1	A	70	THR
1	A	71	LYS
1	A	75	GLN
1	A	77	ASP
1	A	97	GLU
1	A	111	THR
1	A	116	THR
1	A	133	LEU
1	A	137	ASN
1	A	157	THR
1	A	171	LEU

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	A	180	VAL
1	A	192	VAL
1	A	197	ASP
1	A	210	THR
1	A	211	ILE
1	A	224	LEU
1	A	227	GLN
1	A	234	LEU
1	B	8	PHE
1	B	9	LEU
1	B	10	LYS
1	B	13	LEU
1	B	14	VAL
1	B	15	ASP
1	B	16	ILE
1	B	17	GLU
1	B	21	SER
1	B	27	THR
1	B	33	ARG
1	B	35	PHE
1	B	44	ARG
1	B	48	LEU
1	B	60	GLU
1	B	61	ILE
1	B	64	VAL
1	B	66	HIS
1	B	67	GLU
1	B	72	GLU
1	B	76	GLU
1	B	77	ASP
1	B	79	LEU
1	B	81	ILE
1	B	82	LEU
1	B	85	LEU
1	B	88	LEU
1	B	90	VAL
1	B	91	ARG
1	B	92	VAL
1	B	98	VAL
1	B	100	LEU
1	B	101	THR
1	B	102	LEU

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	B	105	SER
1	B	118	ASP
1	B	120	ASP
1	B	121	VAL
1	B	123	ILE
1	B	124	VAL
1	B	129	VAL
1	B	133	LEU
1	B	134	THR
1	B	137	ASN
1	B	143	ARG
1	B	147	GLN
1	B	156	SER
1	B	157	THR
1	B	180	VAL
1	B	182	ARG
1	B	186	ASN
1	B	187	VAL
1	B	191	ARG
1	B	195	ARG
1	B	196	THR
1	B	200	LYS
1	B	203	ILE
1	B	205	MET
1	B	206	GLU
1	B	214	GLU
1	B	218	ARG
1	B	223	ILE
1	B	224	LEU
1	B	226	GLU
1	B	249	PHE
1	B	252	ILE
1	B	253	LEU
1	B	255	ARG
1	B	262	LEU
1	B	263	THR
1	B	265	ARG
1	B	273	GLU
1	B	277	TYR
1	B	284	ARG
1	B	285	THR
1	B	286	GLU

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	B	293	PRO
1	B	295	LEU
1	B	304	LYS
1	B	306	VAL
1	B	310	ARG
2	C	11	ILE
2	C	46	GLN
2	C	81	ASP
2	C	84	GLU
2	C	93	SER
2	C	103	VAL
2	C	113	THR
2	C	115	LYS
2	C	117	ILE
2	C	118	LYS
2	C	119	GLU
2	C	122	VAL
2	C	131	THR
2	C	138	ILE
2	C	145	ILE
2	C	146	VAL
2	C	150	HIS
2	C	152	SER
2	C	161	LYS
2	C	164	THR
2	C	165	HIS
2	C	167	SER
2	C	170	VAL
2	C	182	SER
2	C	185	ASP
2	C	201	ARG
2	C	208	ILE
2	C	213	LEU
2	C	239	MET
2	C	285	ILE
2	C	287	VAL
2	C	306	THR
2	C	309	LEU
2	C	316	GLU
2	C	319	LEU
2	C	325	LEU
2	C	337	PHE

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
2	C	357	ASN
2	C	363	LEU
2	C	369	MET
2	C	377	THR
2	C	384	LEU
2	C	412	GLU
2	C	419	ILE
2	C	420	LEU
2	C	423	ASP
2	C	443	ASP
2	C	451	ARG
2	C	463	GLN
2	C	481	LEU
2	C	484	LEU
2	C	487	LEU
2	C	496	LYS
2	C	502	VAL
2	C	518	ASN
2	C	519	ASN
2	C	524	ILE
2	C	539	THR
2	C	540	ARG
2	C	542	ARG
2	C	550	VAL
2	C	553	THR
2	C	563	THR
2	C	600	THR
2	C	609	ILE
2	C	623	LEU
2	C	635	THR
2	C	638	SER
2	C	657	THR
2	C	662	SER
2	C	667	LEU
2	C	672	GLU
2	C	674	ASP
2	C	687	ARG
2	C	690	VAL
2	C	692	THR
2	C	697	LYS
2	C	700	VAL
2	C	714	VAL

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
2	C	736	VAL
2	C	739	ASP
2	C	748	ILE
2	C	749	ASP
2	C	750	ILE
2	C	753	LEU
2	C	756	TYR
2	C	757	THR
2	C	763	THR
2	C	765	ILE
2	C	773	LEU
2	C	783	LEU
2	C	789	THR
2	C	790	ASP
2	C	799	ASN
2	C	800	MET
2	C	813	GLU
2	C	814	ASP
2	C	817	LEU
2	C	823	VAL
2	C	831	ILE
2	C	838	CYS
2	C	844	LYS
2	C	851	THR
2	C	857	VAL
2	C	863	SER
2	C	867	GLU
2	C	878	THR
2	C	881	ASP
2	C	882	ILE
2	C	890	LYS
2	C	892	GLU
2	C	902	LEU
2	C	911	SER
2	C	918	LEU
2	C	919	ARG
2	C	921	PRO
2	C	922	ASN
2	C	934	PHE
2	C	944	ARG
2	C	951	MET
2	C	963	GLU

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
2	C	992	LEU
2	C	1004	ASP
2	C	1006	GLU
2	C	1018	TYR
2	C	1036	ILE
2	C	1037	THR
2	C	1040	ASP
2	C	1044	PRO
2	C	1046	VAL
2	C	1050	VAL
2	C	1054	LEU
2	C	1056	VAL
2	C	1059	ARG
2	C	1060	ILE
2	C	1082	ILE
2	C	1084	ASP
2	C	1087	TYR
2	C	1094	VAL
2	C	1137	GLU
2	C	1145	ILE
2	C	1146	GLN
2	C	1154	ASP
2	C	1156	ARG
2	C	1159	VAL
2	C	1162	SER
2	C	1163	THR
2	C	1164	PHE
2	C	1198	LEU
2	C	1207	SER
2	C	1211	ARG
2	C	1223	ARG
2	C	1226	THR
2	C	1233	LEU
2	C	1236	ASN
2	C	1237	HIS
2	C	1238	LEU
2	C	1239	VAL
2	C	1248	THR
2	C	1252	SER
2	C	1254	VAL
2	C	1255	THR
2	C	1264	GLN

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
2	C	1279	GLU
2	C	1281	TYR
2	C	1295	SER
2	C	1299	ASN
2	C	1301	ARG
2	C	1325	VAL
2	C	1332	SER
2	C	1337	ILE
2	C	1342	GLU
3	D	9	LYS
3	D	11	GLN
3	D	13	LYS
3	D	26	SER
3	D	27	PRO
3	D	29	MET
3	D	43	THR
3	D	44	ILE
3	D	46	TYR
3	D	47	ARG
3	D	52	GLU
3	D	54	ASP
3	D	66	LYS
3	D	70	CYS
3	D	79	LYS
3	D	83	VAL
3	D	96	LYS
3	D	97	VAL
3	D	109	SER
3	D	111	THR
3	D	115	TRP
3	D	118	LYS
3	D	120	LEU
3	D	124	ILE
3	D	132	LEU
3	D	154	LEU
3	D	169	LEU
3	D	172	PHE
3	D	176	PHE
3	D	177	ASP
3	D	183	GLU
3	D	195	GLU
3	D	217	LEU

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
3	D	218	THR
3	D	222	LYS
3	D	227	PHE
3	D	229	GLN
3	D	230	SER
3	D	241	VAL
3	D	242	LEU
3	D	244	VAL
3	D	245	LEU
3	D	247	PRO
3	D	248	ASP
3	D	252	LEU
3	D	255	LEU
3	D	256	ASP
3	D	262	THR
3	D	268	LEU
3	D	284	ASP
3	D	289	ASP
3	D	292	VAL
3	D	306	LEU
3	D	314	ARG
3	D	320	ASN
3	D	324	LEU
3	D	334	LYS
3	D	338	PHE
3	D	347	VAL
3	D	350	SER
3	D	356	THR
3	D	363	LEU
3	D	368	LEU
3	D	374	LEU
3	D	394	ILE
3	D	402	GLU
3	D	408	VAL
3	D	418	GLU
3	D	424	ASN
3	D	425	ARG
3	D	429	LEU
3	D	430	HIS
3	D	442	ILE
3	D	473	THR
3	D	474	LEU

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
3	D	484	MET
3	D	487	THR
3	D	490	ILE
3	D	492	SER
3	D	502	PRO
3	D	505	ASP
3	D	510	LEU
3	D	511	TYR
3	D	514	THR
3	D	523	GLU
3	D	525	MET
3	D	526	VAL
3	D	528	THR
3	D	532	GLU
3	D	536	LEU
3	D	544	LEU
3	D	545	HIS
3	D	550	VAL
3	D	553	THR
3	D	558	ASP
3	D	560	ASN
3	D	563	LEU
3	D	572	THR
3	D	573	THR
3	D	582	ILE
3	D	583	VAL
3	D	594	GLN
3	D	598	LYS
3	D	599	LYS
3	D	602	SER
3	D	607	THR
3	D	615	LYS
3	D	639	VAL
3	D	646	ILE
3	D	660	GLU
3	D	661	VAL
3	D	674	THR
3	D	683	ILE
3	D	684	ASP
3	D	698	MET
3	D	701	LEU
3	D	705	THR

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
3	D	707	ILE
3	D	708	ASN
3	D	710	ASP
3	D	712	GLN
3	D	717	VAL
3	D	720	ASN
3	D	740	LEU
3	D	744	ARG
3	D	746	LEU
3	D	755	ILE
3	D	757	THR
3	D	764	ARG
3	D	770	LEU
3	D	772	TYR
3	D	774	ILE
3	D	786	THR
3	D	795	TYR
3	D	801	VAL
3	D	803	VAL
3	D	806	ASP
3	D	808	VAL
3	D	810	THR
3	D	823	THR
3	D	825	VAL
3	D	830	ASP
3	D	831	VAL
3	D	833	GLU
3	D	838	ARG
3	D	847	ASP
3	D	849	LEU
3	D	853	THR
3	D	856	ILE
3	D	867	GLN
3	D	877	VAL
3	D	886	VAL
3	D	891	ASP
3	D	901	ARG
3	D	903	LEU
3	D	908	ILE
3	D	913	GLU
3	D	918	ILE
3	D	922	SER

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
3	D	929	GLN
3	D	1155	ILE
3	D	1156	LEU
3	D	1160	SER
3	D	1162	ILE
3	D	1170	LYS
3	D	1173	ARG
3	D	1177	ILE
3	D	1183	SER
3	D	1186	TYR
3	D	1194	ARG
3	D	1199	PHE
3	D	1209	VAL
3	D	1221	LEU
3	D	1229	VAL
3	D	1231	ARG
3	D	1235	ASN
3	D	1242	ARG
3	D	1250	ASP
3	D	1261	LEU
3	D	1266	ILE
3	D	1272	SER
3	D	1273	ASP
3	D	1278	GLU
3	D	1280	VAL
3	D	1284	ARG
3	D	1289	ASN
3	D	1306	LEU
3	D	1309	ILE
3	D	1314	LEU
3	D	1319	PHE
3	D	1321	SER
3	D	1332	LEU
3	D	1349	GLU
3	D	1356	LEU
3	D	1366	HIS
4	E	3	ARG
4	E	18	ASP
4	E	21	LEU
4	E	31	GLN
4	E	39	VAL
4	E	46	THR

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
4	E	84	THR
5	F	96	ASP
5	F	98	VAL
5	F	104	GLU
5	F	105	MET
5	F	108	VAL
5	F	253	SER
5	F	260	ARG
5	F	267	ASP
5	F	310	GLU
5	F	313	ASP
5	F	354	THR
5	F	359	LYS
5	F	360	ASP
5	F	374	ARG
5	F	379	MET
5	F	390	ILE
5	F	395	THR
5	F	399	LEU
5	F	401	PHE
5	F	405	ILE
5	F	406	GLN
5	F	439	ILE
5	F	448	ARG
5	F	449	THR
5	F	450	ILE
5	F	470	MET
5	F	471	LEU
5	F	497	VAL
5	F	506	SER
5	F	509	THR
5	F	516	ASP
5	F	517	SER
5	F	526	THR
5	F	527	THR
5	F	528	LEU
5	F	529	GLU
5	F	530	LEU
5	F	531	PRO
5	F	532	LEU
5	F	533	ASP
5	F	534	SER

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
5	F	539	SER
5	F	545	HIS
5	F	546	ASP
5	F	552	THR
5	F	562	ARG
5	F	565	ILE
5	F	567	MET
5	F	569	THR
5	F	570	ASP
5	F	572	THR
5	F	573	LEU
5	F	580	PHE
5	F	582	VAL
5	F	583	THR
5	F	587	ILE
5	F	595	LEU
5	F	600	HIS
5	F	607	LEU
5	F	608	ARG
1	G	19	VAL
1	G	23	HIS
1	G	27	THR
1	G	29	GLU
1	G	64	VAL
1	G	66	HIS
1	G	71	LYS
1	G	79	LEU
1	G	90	VAL
1	G	124	VAL
1	G	131	CYS
1	G	133	LEU
1	G	137	ASN
1	G	139	SER
1	G	140	ILE
1	G	157	THR
1	G	171	LEU
1	G	180	VAL
1	G	197	ASP
1	G	207	THR
1	G	211	ILE
1	G	228	LEU
1	H	18	GLN

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	H	22	THR
1	H	38	THR
1	H	43	LEU
1	H	45	ARG
1	H	48	LEU
1	H	49	SER
1	H	51	MET
1	H	54	CYS
1	H	65	LEU
1	H	68	TYR
1	H	72	GLU
1	H	79	LEU
1	H	90	VAL
1	H	95	LYS
1	H	102	LEU
1	H	103	ASN
1	H	118	ASP
1	H	131	CYS
1	H	133	LEU
1	H	135	ASP
1	H	139	SER
1	H	144	ILE
1	H	157	THR
1	H	178	SER
1	H	180	VAL
1	H	183	ILE
1	H	186	ASN
1	H	192	VAL
1	H	197	ASP
1	H	198	LEU
1	H	203	ILE
1	H	212	ASP
1	H	226	GLU
2	I	11	ILE
2	I	17	LYS
2	I	20	GLN
2	I	23	ASP
2	I	30	ILE
2	I	60	GLN
2	I	65	ASN
2	I	81	ASP
2	I	87	ILE

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
2	I	90	VAL
2	I	93	SER
2	I	115	LYS
2	I	116	ASP
2	I	118	LYS
2	I	122	VAL
2	I	129	LEU
2	I	131	THR
2	I	132	ASP
2	I	135	THR
2	I	138	ILE
2	I	143	ARG
2	I	145	ILE
2	I	146	VAL
2	I	150	HIS
2	I	152	SER
2	I	156	PHE
2	I	161	LYS
2	I	165	HIS
2	I	167	SER
2	I	182	SER
2	I	185	ASP
2	I	189	ASP
2	I	197	ARG
2	I	201	ARG
2	I	208	ILE
2	I	223	LEU
2	I	229	ILE
2	I	239	MET
2	I	285	ILE
2	I	287	VAL
2	I	302	ILE
2	I	316	GLU
2	I	317	LEU
2	I	325	LEU
2	I	337	PHE
2	I	357	ASN
2	I	369	MET
2	I	377	THR
2	I	393	ASP
2	I	400	VAL
2	I	419	ILE

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
2	I	442	VAL
2	I	443	ASP
2	I	445	ILE
2	I	452	ARG
2	I	453	ILE
2	I	456	VAL
2	I	463	GLN
2	I	471	VAL
2	I	481	LEU
2	I	484	LEU
2	I	487	LEU
2	I	492	MET
2	I	493	ILE
2	I	496	LYS
2	I	502	VAL
2	I	509	SER
2	I	513	GLN
2	I	518	ASN
2	I	519	ASN
2	I	521	LEU
2	I	524	ILE
2	I	538	LEU
2	I	550	VAL
2	I	553	THR
2	I	563	THR
2	I	587	LEU
2	I	600	THR
2	I	601	ASP
2	I	609	ILE
2	I	635	THR
2	I	638	SER
2	I	657	THR
2	I	663	VAL
2	I	672	GLU
2	I	681	MET
2	I	687	ARG
2	I	692	THR
2	I	697	LYS
2	I	705	GLU
2	I	714	VAL
2	I	739	ASP
2	I	742	TYR

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
2	I	748	ILE
2	I	749	ASP
2	I	750	ILE
2	I	756	TYR
2	I	757	THR
2	I	763	THR
2	I	765	ILE
2	I	773	LEU
2	I	789	THR
2	I	790	ASP
2	I	791	LEU
2	I	799	ASN
2	I	814	ASP
2	I	817	LEU
2	I	823	VAL
2	I	851	THR
2	I	856	ASN
2	I	857	VAL
2	I	866	ASP
2	I	868	SER
2	I	878	THR
2	I	881	ASP
2	I	917	SER
2	I	918	LEU
2	I	922	ASN
2	I	944	ARG
2	I	992	LEU
2	I	1004	ASP
2	I	1006	GLU
2	I	1037	THR
2	I	1040	ASP
2	I	1042	LEU
2	I	1050	VAL
2	I	1054	LEU
2	I	1058	ARG
2	I	1059	ARG
2	I	1072	ASN
2	I	1076	ILE
2	I	1077	SER
2	I	1078	LYS
2	I	1084	ASP
2	I	1087	TYR

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
2	I	1105	SER
2	I	1106	ARG
2	I	1109	ILE
2	I	1115	THR
2	I	1137	GLU
2	I	1145	ILE
2	I	1146	GLN
2	I	1154	ASP
2	I	1156	ARG
2	I	1159	VAL
2	I	1163	THR
2	I	1164	PHE
2	I	1203	ASP
2	I	1207	SER
2	I	1211	ARG
2	I	1214	ASP
2	I	1237	HIS
2	I	1238	LEU
2	I	1239	VAL
2	I	1240	ASP
2	I	1248	THR
2	I	1252	SER
2	I	1254	VAL
2	I	1278	LEU
2	I	1281	TYR
2	I	1295	SER
2	I	1313	HIS
2	I	1325	VAL
2	I	1342	GLU
3	J	18	ASP
3	J	26	SER
3	J	43	THR
3	J	44	ILE
3	J	46	TYR
3	J	47	ARG
3	J	52	GLU
3	J	54	ASP
3	J	70	CYS
3	J	75	TYR
3	J	83	VAL
3	J	95	THR
3	J	109	SER

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
3	J	111	THR
3	J	118	LYS
3	J	120	LEU
3	J	139	LEU
3	J	154	LEU
3	J	169	LEU
3	J	172	PHE
3	J	176	PHE
3	J	177	ASP
3	J	183	GLU
3	J	217	LEU
3	J	222	LYS
3	J	224	LEU
3	J	229	GLN
3	J	230	SER
3	J	241	VAL
3	J	242	LEU
3	J	244	VAL
3	J	245	LEU
3	J	248	ASP
3	J	252	LEU
3	J	256	ASP
3	J	268	LEU
3	J	289	ASP
3	J	292	VAL
3	J	306	LEU
3	J	312	ARG
3	J	314	ARG
3	J	324	LEU
3	J	331	ILE
3	J	334	LYS
3	J	342	LEU
3	J	347	VAL
3	J	353	SER
3	J	356	THR
3	J	363	LEU
3	J	368	LEU
3	J	376	LEU
3	J	394	ILE
3	J	402	GLU
3	J	407	VAL
3	J	416	ILE

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
3	J	424	ASN
3	J	429	LEU
3	J	430	HIS
3	J	442	ILE
3	J	447	ILE
3	J	453	VAL
3	J	460	ASP
3	J	474	LEU
3	J	484	MET
3	J	485	MET
3	J	486	SER
3	J	488	ASN
3	J	490	ILE
3	J	492	SER
3	J	505	ASP
3	J	510	LEU
3	J	511	TYR
3	J	514	THR
3	J	525	MET
3	J	528	THR
3	J	536	LEU
3	J	544	LEU
3	J	545	HIS
3	J	550	VAL
3	J	563	LEU
3	J	567	THR
3	J	569	LEU
3	J	572	THR
3	J	573	THR
3	J	592	VAL
3	J	594	GLN
3	J	599	LYS
3	J	602	SER
3	J	605	LEU
3	J	607	THR
3	J	610	ARG
3	J	615	LYS
3	J	617	THR
3	J	620	PHE
3	J	634	ARG
3	J	641	ILE
3	J	646	ILE

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
3	J	651	HIS
3	J	660	GLU
3	J	674	THR
3	J	678	ARG
3	J	682	VAL
3	J	683	ILE
3	J	697	MET
3	J	698	MET
3	J	701	LEU
3	J	705	THR
3	J	707	ILE
3	J	708	ASN
3	J	712	GLN
3	J	720	ASN
3	J	740	LEU
3	J	744	ARG
3	J	746	LEU
3	J	754	ILE
3	J	757	THR
3	J	770	LEU
3	J	772	TYR
3	J	774	ILE
3	J	786	THR
3	J	788	LEU
3	J	792	ASN
3	J	797	THR
3	J	801	VAL
3	J	808	VAL
3	J	810	THR
3	J	823	THR
3	J	825	VAL
3	J	830	ASP
3	J	847	ASP
3	J	849	LEU
3	J	853	THR
3	J	856	ILE
3	J	857	LEU
3	J	864	LEU
3	J	867	GLN
3	J	868	TRP
3	J	885	VAL
3	J	886	VAL

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
3	J	903	LEU
3	J	908	ILE
3	J	913	GLU
3	J	918	ILE
3	J	922	SER
3	J	1146	GLU
3	J	1155	ILE
3	J	1156	LEU
3	J	1162	ILE
3	J	1170	LYS
3	J	1173	ARG
3	J	1177	ILE
3	J	1183	SER
3	J	1186	TYR
3	J	1194	ARG
3	J	1200	GLU
3	J	1209	VAL
3	J	1217	PRO
3	J	1221	LEU
3	J	1229	VAL
3	J	1231	ARG
3	J	1241	TYR
3	J	1242	ARG
3	J	1255	VAL
3	J	1266	ILE
3	J	1272	SER
3	J	1273	ASP
3	J	1274	PHE
3	J	1283	SER
3	J	1287	ILE
3	J	1289	ASN
3	J	1290	ARG
3	J	1293	GLU
3	J	1306	LEU
3	J	1307	LEU
3	J	1309	ILE
3	J	1317	GLU
3	J	1319	PHE
3	J	1321	SER
3	J	1324	SER
3	J	1325	PHE
3	J	1328	THR

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
3	J	1332	LEU
3	J	1333	THR
3	J	1357	ILE
3	J	1366	HIS
4	K	3	ARG
4	K	13	ILE
4	K	21	LEU
4	K	36	ASP
4	K	39	VAL
4	K	46	THR
4	K	58	LEU
5	L	98	VAL
5	L	104	GLU
5	L	136	GLU
5	L	253	SER
5	L	260	ARG
5	L	266	PHE
5	L	267	ASP
5	L	313	ASP
5	L	360	ASP
5	L	367	ILE
5	L	390	ILE
5	L	399	LEU
5	L	401	PHE
5	L	405	ILE
5	L	406	GLN
5	L	410	ILE
5	L	429	THR
5	L	439	ILE
5	L	445	ASP
5	L	448	ARG
5	L	449	THR
5	L	450	ILE
5	L	452	ILE
5	L	464	ASN
5	L	465	ARG
5	L	470	MET
5	L	479	THR
5	L	497	VAL
5	L	502	LYS
5	L	513	ASP
5	L	517	SER

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Mol	Chain	Res	Type
5	L	518	HIS
5	L	528	LEU
5	L	529	GLU
5	L	530	LEU
5	L	533	ASP
5	L	536	THR
5	L	552	THR
5	L	565	ILE
5	L	573	LEU
5	L	574	GLU
5	L	583	THR
5	L	587	ILE
5	L	595	LEU
5	L	601	PRO
5	L	607	LEU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (114) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	84	ASN
1	A	103	ASN
1	A	132	HIS
1	A	227	GLN
1	B	132	HIS
1	B	147	GLN
1	B	268	ASN
2	C	46	GLN
2	C	69	GLN
2	C	139	ASN
2	C	276	GLN
2	C	357	ASN
2	C	463	GLN
2	C	494	ASN
2	C	513	GLN
2	C	517	GLN
2	C	554	HIS
2	C	568	ASN
2	C	684	ASN
2	C	832	HIS
2	C	834	GLN
2	C	922	ASN
2	C	1108	ASN

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
2	C	1111	GLN
2	C	1134	GLN
2	C	1146	GLN
2	C	1209	GLN
2	C	1256	GLN
2	C	1268	GLN
2	C	1314	GLN
3	D	94	GLN
3	D	157	GLN
3	D	200	GLN
3	D	294	ASN
3	D	365	GLN
3	D	430	HIS
3	D	435	GLN
3	D	450	HIS
3	D	465	GLN
3	D	477	GLN
3	D	594	GLN
3	D	702	GLN
3	D	716	GLN
3	D	805	GLN
3	D	861	ASN
3	D	867	GLN
3	D	929	GLN
3	D	1227	HIS
3	D	1259	GLN
5	F	147	GLN
5	F	283	GLN
5	F	317	ASN
5	F	331	HIS
5	F	345	GLN
5	F	400	GLN
5	F	464	ASN
1	G	41	ASN
1	G	84	ASN
1	G	128	HIS
1	H	103	ASN
1	H	128	HIS
2	I	139	ASN
2	I	330	HIS
2	I	357	ASN
2	I	462	ASN

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
2	I	490	GLN
2	I	526	HIS
2	I	554	HIS
2	I	604	HIS
2	I	688	GLN
2	I	832	HIS
2	I	834	GLN
2	I	1070	HIS
2	I	1108	ASN
2	I	1111	GLN
2	I	1116	HIS
2	I	1146	GLN
2	I	1209	GLN
2	I	1220	GLN
2	I	1268	GLN
2	I	1314	GLN
2	I	1324	ASN
3	J	157	GLN
3	J	200	GLN
3	J	206	ASN
3	J	294	ASN
3	J	335	GLN
3	J	365	GLN
3	J	424	ASN
3	J	430	HIS
3	J	450	HIS
3	J	465	GLN
3	J	489	ASN
3	J	669	GLN
3	J	702	GLN
3	J	716	GLN
3	J	805	GLN
3	J	861	ASN
3	J	865	HIS
3	J	910	ASN
3	J	1218	HIS
3	J	1235	ASN
3	J	1268	ASN
3	J	1279	GLN
3	J	1295	ASN
3	J	1366	HIS
5	L	128	ASN

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Mol	Chain	Res	Type
5	L	147	GLN
5	L	242	HIS
5	L	357	GLN
5	L	400	GLN
5	L	406	GLN
5	L	446	GLN
5	L	469	GLN

### 5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

### 5.5 Carbohydrates [i](#)

There are no monosaccharides in this entry.

### 5.6 Ligand geometry [i](#)

Of 7 ligands modelled in this entry, 6 are monoatomic - leaving 1 for Mogul analysis.

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

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\# Z  > 2$	Counts	RMSZ	$\# Z  > 2$
8	4C4	D	2004	-	30,31,31	0.56	0	30,40,40	0.82	1 (3%)

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

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
8	4C4	D	2004	-	-	11/29/31/31	0/1/1/1

There are no bond length outliers.

All (1) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed( $^{\circ}$ )	Ideal( $^{\circ}$ )
8	D	2004	4C4	C4-C3-C2	2.12	119.22	115.62

There are no chirality outliers.

All (11) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
8	D	2004	4C4	O5-C15-C16-C18
8	D	2004	4C4	O5-C15-C16-C17
8	D	2004	4C4	C14-C15-C16-C17
8	D	2004	4C4	C17-C16-C18-C19
8	D	2004	4C4	O4-C22-O3-C23
8	D	2004	4C4	N-C22-O3-C23
8	D	2004	4C4	C16-C18-C19-C20
8	D	2004	4C4	C11-C10-C9-C7
8	D	2004	4C4	C18-C19-C20-C21
8	D	2004	4C4	C20-C21-N-C22
8	D	2004	4C4	C15-C16-C18-C19

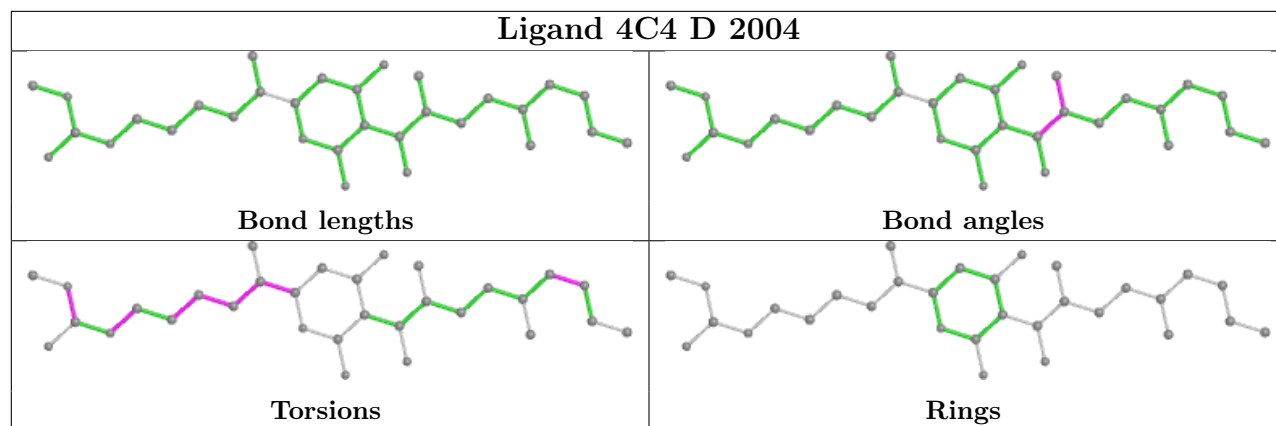
There are no ring outliers.

1 monomer is involved in 17 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
8	D	2004	4C4	17	0

The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included. For torsion angles, if less than 5% of the Mogul distribution of torsion angles is within 10 degrees of the torsion angle in question, then that torsion angle is considered an outlier. Any bond that is central to one or more torsion angles identified as an outlier by Mogul will be highlighted in the graph. For rings, the root-mean-square deviation (RMSD) between the ring in question and similar rings identified by Mogul is calculated over all ring torsion angles. If the average RMSD is greater than 60 degrees and the minimal RMSD between the ring in question and any Mogul-identified rings is also greater than 60 degrees, then that ring is considered an outlier. The outliers are highlighted in purple. The color gray indicates Mogul did not find sufficient equivalents in the CSD to analyse the geometry.





## 5.7 Other polymers [i](#)

There are no such residues in this entry.

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

There are no chain breaks in this entry.

## 6 Fit of model and data

### 6.1 Protein, DNA and RNA chains

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

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å <sup>2</sup> )	Q<0.9
1	A	229/329 (69%)	-0.33	1 (0%) 92 88	85, 130, 177, 246	0
1	B	289/329 (87%)	-0.20	8 (2%) 53 43	100, 194, 249, 268	0
1	G	227/329 (68%)	-0.19	4 (1%) 68 61	184, 217, 237, 248	0
1	H	216/329 (65%)	0.43	22 (10%) 6 6	179, 244, 274, 286	0
2	C	1340/1342 (99%)	-0.31	4 (0%) 94 91	75, 125, 228, 303	0
2	I	1340/1342 (99%)	-0.20	30 (2%) 62 53	124, 163, 252, 431	0
3	D	1166/1407 (82%)	-0.30	7 (0%) 89 85	84, 126, 211, 261	0
3	J	1155/1407 (82%)	-0.22	20 (1%) 70 62	122, 169, 233, 316	0
4	E	89/91 (97%)	-0.28	0 100 100	118, 140, 168, 177	0
4	K	79/91 (86%)	0.51	7 (8%) 9 7	223, 285, 342, 352	0
5	F	458/613 (74%)	-0.09	24 (5%) 27 23	115, 176, 321, 349	0
5	L	458/613 (74%)	-0.03	21 (4%) 32 27	153, 197, 350, 376	0
All	All	7046/8222 (85%)	-0.20	148 (2%) 63 55	75, 159, 278, 431	0

All (148) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
5	L	319	ALA	7.3
5	L	315	TRP	6.8
5	F	305	LEU	6.3
1	H	24	ALA	6.2
5	F	304	THR	6.1
5	L	321	ALA	5.7
5	L	314	THR	5.3
5	L	318	ALA	5.3
2	I	982	GLY	5.2
5	L	322	MET	4.9
5	F	301	ASN	4.6

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Mol	Chain	Res	Type	RSRZ
3	J	1186	TYR	4.5
2	I	980	VAL	4.4
2	I	979	LEU	4.3
1	H	13	LEU	4.3
5	F	259	PHE	4.3
1	H	12	ARG	4.2
3	D	1201	GLY	4.2
3	J	1196	LEU	4.2
1	H	28	LEU	4.1
3	J	1175	LEU	4.1
5	F	300	LYS	4.1
1	H	27	THR	4.1
5	F	219	GLU	4.0
2	I	970	GLY	4.0
5	F	325	PRO	4.0
5	L	305	LEU	3.9
3	J	1296	GLY	3.9
4	K	56	GLU	3.8
3	J	1299	GLY	3.8
5	L	316	PHE	3.8
5	L	320	ILE	3.8
1	H	51	MET	3.7
2	C	248	GLY	3.7
5	F	288	MET	3.6
5	L	294	GLN	3.6
3	J	1198	VAL	3.6
2	I	1011	LEU	3.6
1	H	98	VAL	3.6
2	I	983	GLY	3.5
2	I	998	LEU	3.5
5	L	146	GLU	3.5
1	H	121	VAL	3.4
5	L	293	GLU	3.4
2	I	1006	GLU	3.3
2	I	1005	GLU	3.3
2	I	995	ASP	3.3
4	K	58	LEU	3.3
5	F	315	TRP	3.2
3	J	1375	ALA	3.2
5	L	135	ALA	3.1
5	L	291	CYS	3.1
1	H	148	ARG	3.1

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
3	J	1187	GLU	3.1
2	I	977	ALA	3.1
3	J	1202	GLU	3.1
3	J	1188	GLU	3.0
1	B	317	ARG	3.0
2	I	981	ALA	3.0
5	L	312	SER	3.0
2	I	1007	LYS	3.0
2	I	101	ARG	3.0
1	G	202	VAL	3.0
2	C	317	LEU	3.0
1	B	260	LEU	3.0
3	D	1198	VAL	2.9
1	B	98	VAL	2.9
1	H	72	GLU	2.9
2	I	988	LYS	2.9
2	I	969	ALA	2.9
3	D	1202	GLU	2.9
1	G	90	VAL	2.9
1	H	50	SER	2.9
5	F	111	LEU	2.8
5	F	314	THR	2.8
4	K	57	GLY	2.8
2	I	734	ILE	2.7
4	K	75	GLN	2.7
1	G	95	LYS	2.7
5	F	220	LYS	2.7
2	I	733	VAL	2.7
5	F	255	VAL	2.6
5	F	287	ILE	2.6
5	F	299	LYS	2.6
2	I	1000	LEU	2.6
5	F	319	ALA	2.6
3	J	1197	ASN	2.6
1	H	52	PRO	2.6
1	H	186	ASN	2.5
3	J	882	VAL	2.5
3	D	1200	GLU	2.5
3	J	1306	LEU	2.5
5	F	258	GLN	2.5
2	I	1018	TYR	2.4
1	H	146	VAL	2.4

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
1	H	180	VAL	2.4
3	D	1173	ARG	2.4
2	I	978	VAL	2.4
2	I	100	LEU	2.4
3	J	208	THR	2.4
1	H	207	THR	2.4
3	J	1165	PHE	2.4
1	A	205	MET	2.4
1	H	201	LEU	2.3
2	I	1004	ASP	2.3
1	H	179	PRO	2.3
2	I	230	PHE	2.3
1	B	316	MET	2.3
3	D	1161	GLY	2.3
2	I	976	ARG	2.3
1	B	262	LEU	2.3
5	L	337	VAL	2.3
5	F	302	PHE	2.2
2	I	1015	ALA	2.2
1	B	257	VAL	2.2
5	F	303	ILE	2.2
1	H	172	LEU	2.2
3	J	337	ARG	2.2
2	C	1022	LYS	2.2
5	F	256	PHE	2.2
3	D	1204	VAL	2.2
5	L	154	GLU	2.2
5	F	222	ALA	2.2
3	J	1168	GLU	2.2
2	C	266	GLY	2.2
4	K	54	ILE	2.1
5	L	317	ASN	2.1
2	I	975	ILE	2.1
4	K	78	ALA	2.1
1	G	198	LEU	2.1
5	F	296	LYS	2.1
3	J	1199	PHE	2.1
1	H	144	ILE	2.1
2	I	725	GLN	2.1
1	B	57	THR	2.1
1	B	58	GLU	2.1
5	F	152	GLU	2.1

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Mol	Chain	Res	Type	RSRZ
3	J	1201	GLY	2.1
1	H	100	LEU	2.0
2	I	231	GLU	2.0
5	L	284	GLU	2.0
1	H	29	GLU	2.0
2	I	987	GLU	2.0
5	L	288	MET	2.0
3	J	1177	ILE	2.0
5	F	298	PRO	2.0
4	K	55	GLU	2.0
5	L	242	HIS	2.0

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

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

## 6.3 Carbohydrates [i](#)

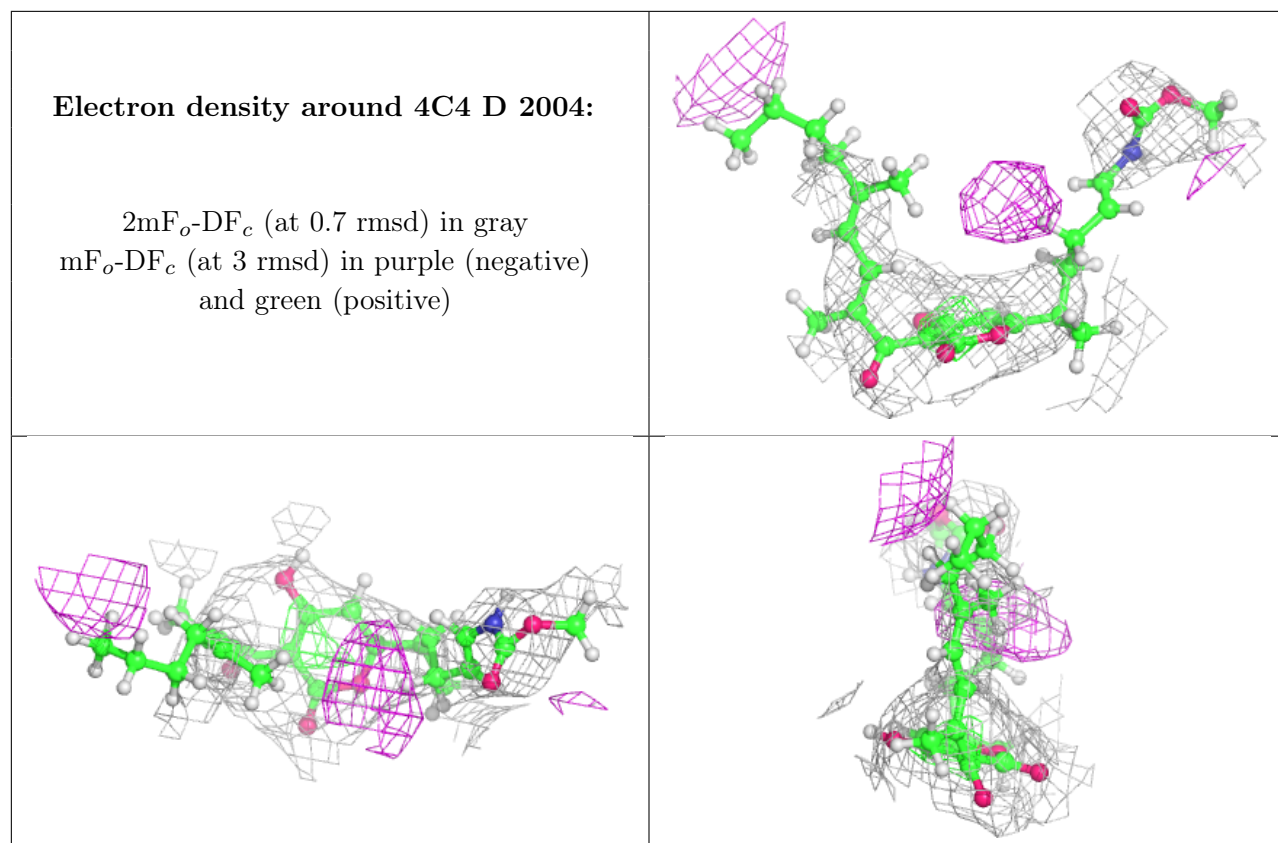
There are no monosaccharides in this entry.

## 6.4 Ligands [i](#)

In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95<sup>th</sup> percentile and maximum values of B factors of atoms in the group. The column labelled 'Q<0.9' lists the number of atoms with occupancy less than 0.9.

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors( $\text{\AA}^2$ )	Q<0.9
8	4C4	D	2004	31/31	0.89	0.43	128,154,155,155	0
7	ZN	J	2003	1/1	0.92	0.14	130,130,130,130	0
6	MG	J	2001	1/1	0.95	0.26	127,127,127,127	0
6	MG	D	2001	1/1	0.98	0.42	126,126,126,126	0
7	ZN	J	2002	1/1	0.99	0.04	143,143,143,143	0
7	ZN	D	2002	1/1	0.99	0.08	126,126,126,126	0
7	ZN	D	2003	1/1	0.99	0.23	125,125,125,125	0

The following is a graphical depiction of the model fit to experimental electron density of all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the geometry validation Tables will also be included. Each fit is shown from different orientation to approximate a three-dimensional view.



## 6.5 Other polymers [i](#)

There are no such residues in this entry.