



Full wwPDB X-ray Structure Validation Report ⓘ

Aug 16, 2023 – 03:54 PM EDT

PDB ID : 1ZYR
Title : Structure of *Thermus thermophilus* RNA polymerase holoenzyme in complex with the antibiotic streptolydigin
Authors : Tuske, S.; Sarafianos, S.G.; Wang, X.; Hudson, B.; Sineva, E.; Mukhopadhyay, J.; Birktoft, J.J.; Leroy, O.; Ismail, S.; Clark, A.D.; Dharia, C.; Napoli, A.; Laptenko, O.; Lee, J.; Borukhov, S.; Ebright, R.H.; Arnold, E.
Deposited on : 2005-06-10
Resolution : 3.00 Å(reported)

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

We welcome your comments at validation@mail.wwpdb.org

A user guide is available at

<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>.

The following versions of software and data (see [references](#) ①) 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
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

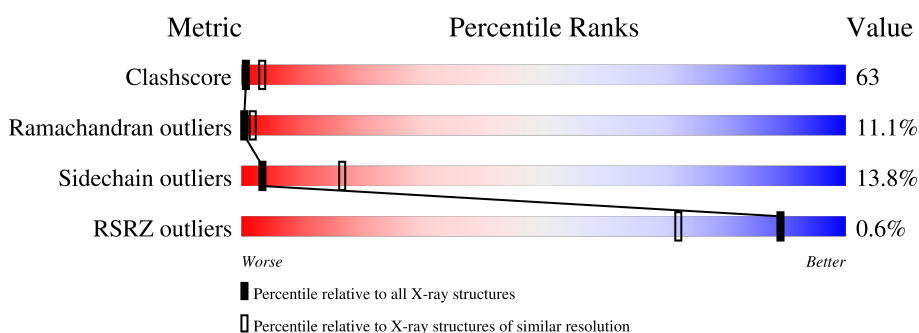
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 3.00 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.



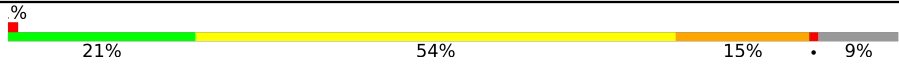

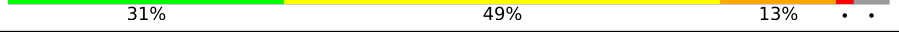
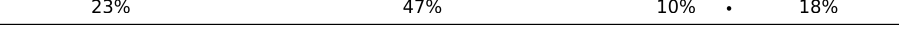
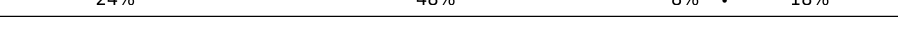
Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
Clashscore	141614	2416 (3.00-3.00)
Ramachandran outliers	138981	2333 (3.00-3.00)
Sidechain outliers	138945	2336 (3.00-3.00)
RSRZ outliers	127900	1990 (3.00-3.00)

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

Mol	Chain	Length	Quality of chain
1	A	315	15% (green), 45% (yellow), 11% (orange), 27% (grey)
1	B	315	21% (green), 43% (yellow), 8% (orange), 27% (grey)
1	K	315	16% (green), 44% (yellow), 11% (orange), 27% (grey)
1	L	315	21% (green), 41% (yellow), 11% (orange), 27% (grey)
2	C	1119	25% (green), 59% (yellow), 14% (orange), 2% (red), 2% (grey)
2	M	1119	25% (green), 59% (yellow), 14% (orange), 2% (red), 2% (grey)
3	D	1524	20% (green), 53% (yellow), 17% (orange), 9% (red), 1% (grey)

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Mol	Chain	Length	Quality of chain
3	N	1524	
4	E	99	
4	O	99	
5	F	423	
5	P	423	

2 Entry composition [i](#)

There are 8 unique types of molecules in this entry. The entry contains 54048 atoms, of which 0 are hydrogens and 0 are deuteriums.

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

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	229	Total 1806	C 1153	N 313	O 337	S 3	0	0	0
1	B	229	Total 1806	C 1153	N 313	O 337	S 3	0	0	0
1	K	229	Total 1806	C 1153	N 313	O 337	S 3	0	0	0
1	L	229	Total 1806	C 1153	N 313	O 337	S 3	0	0	0

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
2	C	1119	Total 8829	C 5581	N 1577	O 1647	S 24	0	0	0
2	M	1119	Total 8829	C 5581	N 1577	O 1647	S 24	0	0	0

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
3	D	1392	Total 10975	C 6953	N 1941	O 2048	S 33	0	0	0
3	N	1392	Total 10975	C 6953	N 1941	O 2048	S 33	0	0	0

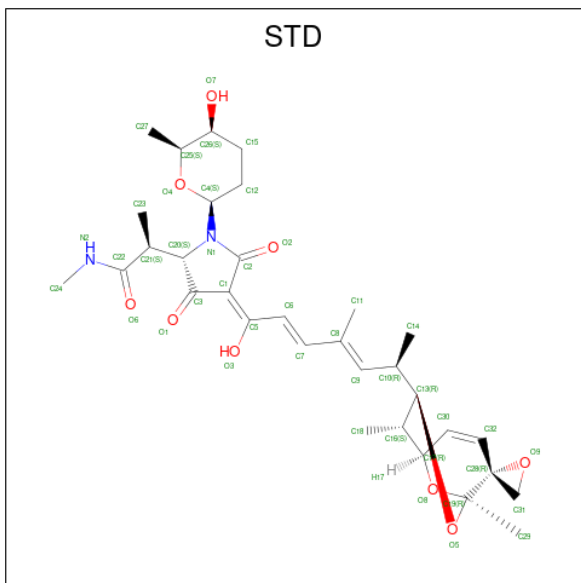
- Molecule 4 is a protein called DNA-directed RNA polymerase omega chain.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
4	E	95	Total 769	C 488	N 133	O 144	S 4	0	0	0
4	O	95	Total 769	C 488	N 133	O 144	S 4	0	0	0

- Molecule 5 is a protein called DNA-directed RNA polymerase sigma chain.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
5	F	345	Total	C	N	O	S	0	0	0
			2793	1762	504	523	4			
5	P	345	Total	C	N	O	S	0	0	0
			2793	1762	504	523	4			

- Molecule 6 is STREPTOLYDIGIN (three-letter code: STD) (formula: C₃₂H₄₄N₂O₉).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
			Total	C	N	O		
6	D	1	Total	C	N	O	0	0
			43	32	2	9		
6	M	1	Total	C	N	O	0	0
			43	32	2	9		

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

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

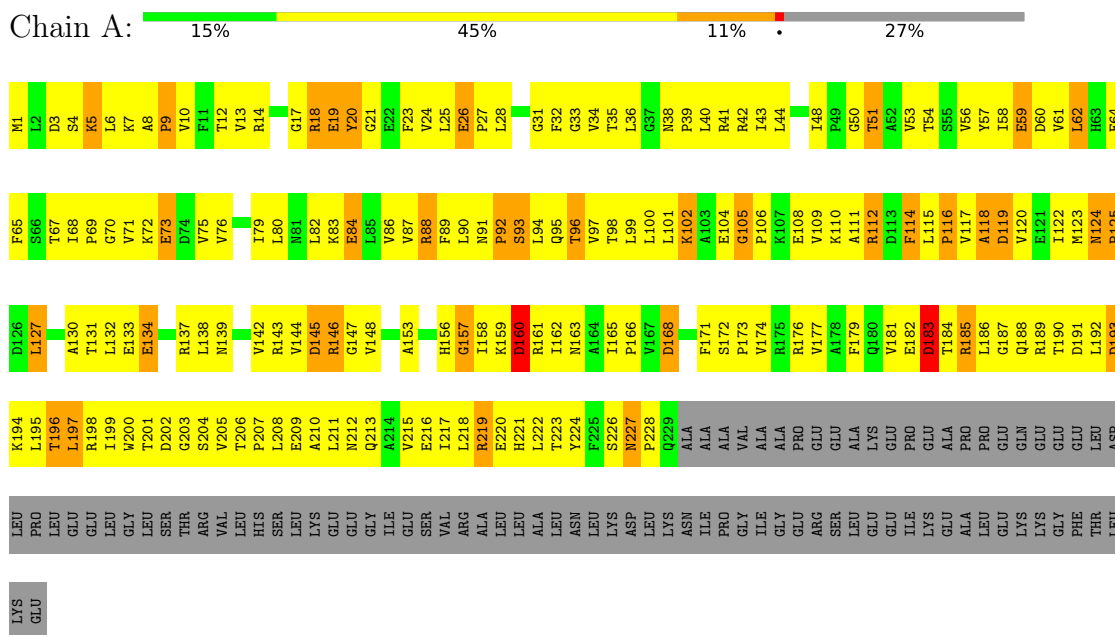
- Molecule 8 is MAGNESIUM ION (three-letter code: MG) (formula: Mg).

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

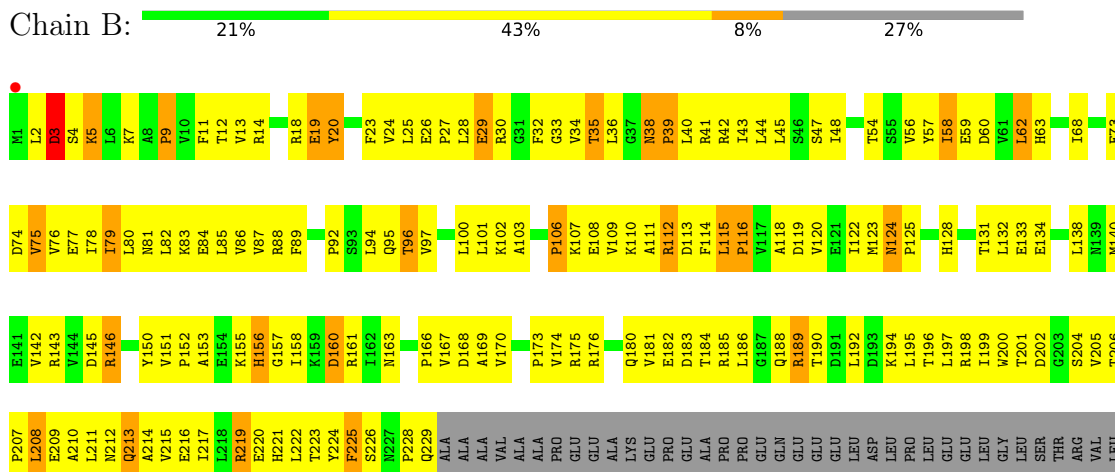
3 Residue-property plots

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 alpha chain




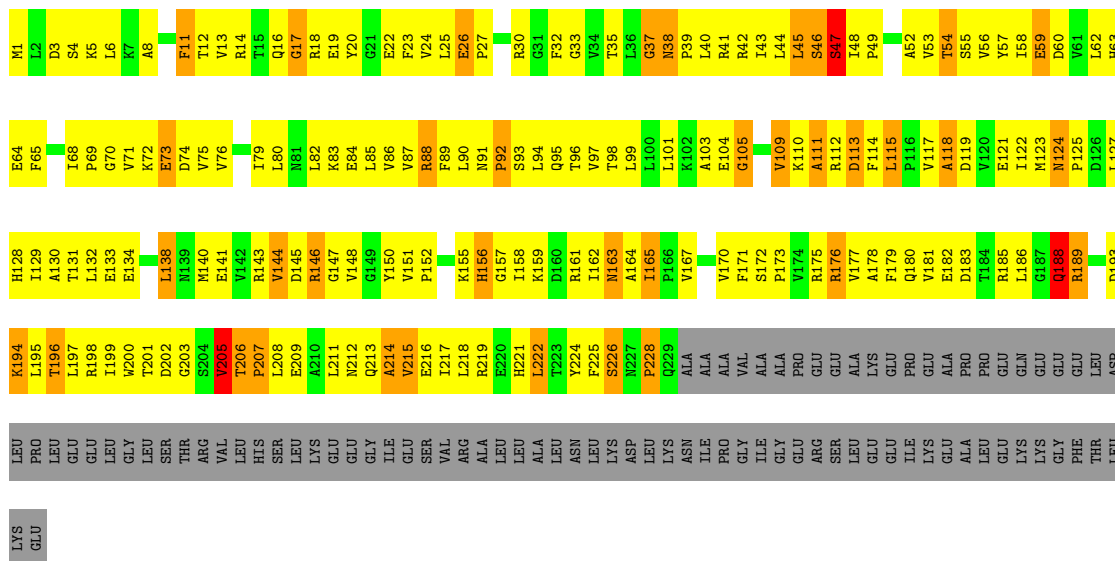
- Molecule 1: DNA-directed RNA polymerase alpha chain




HIS
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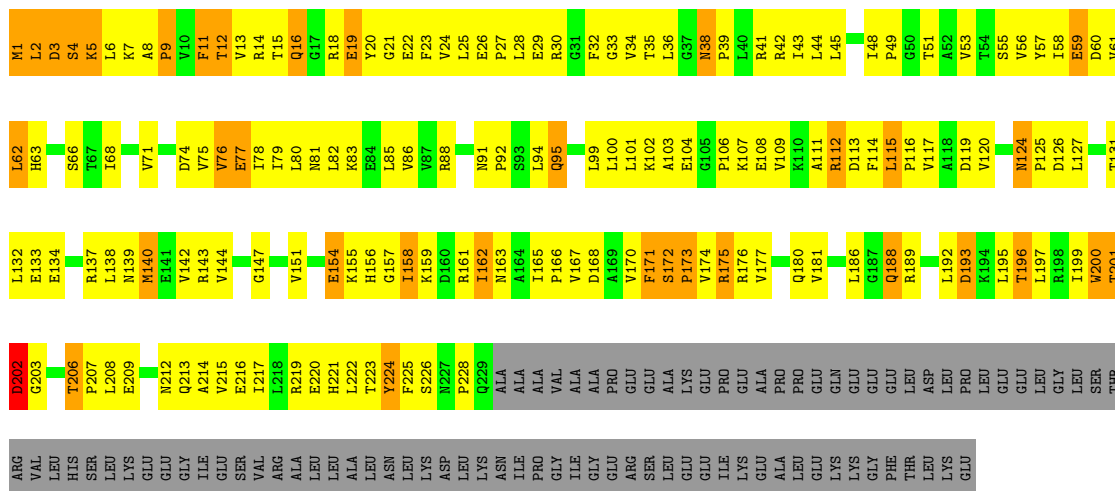
• Molecule 1: DNA-directed RNA polymerase alpha chain

Chain K:  16% 44% 11% 27%



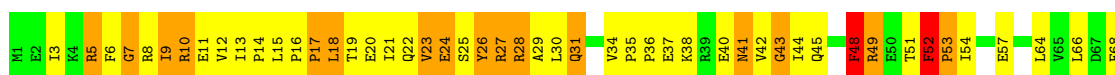
• Molecule 1: DNA-directed RNA polymerase alpha chain

Chain L:  21% 41% 11% 27%

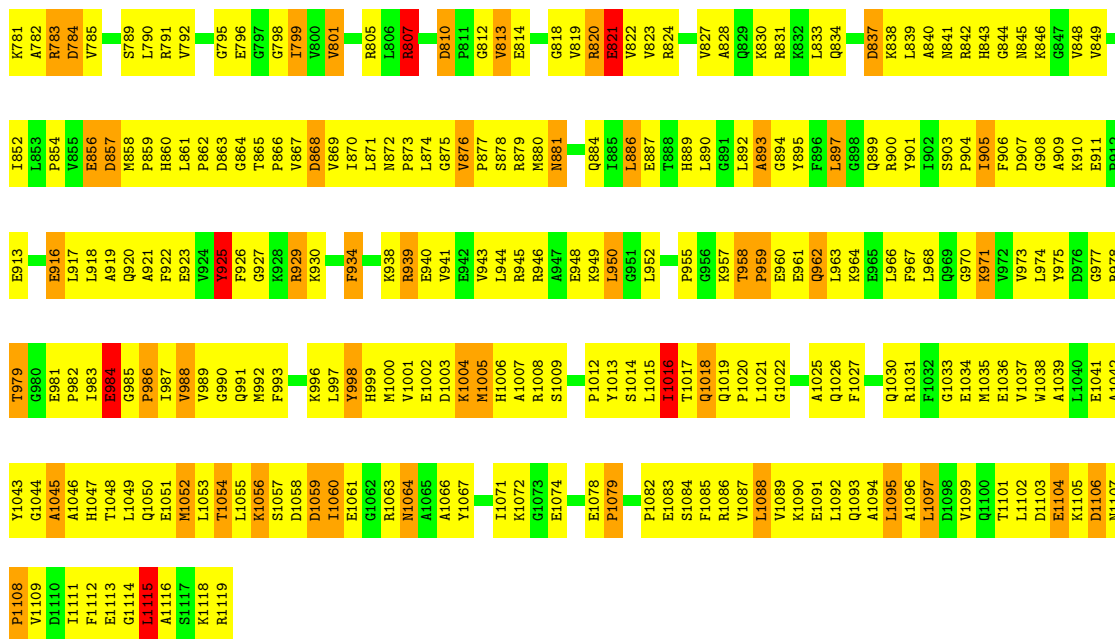


• Molecule 2: DNA-directed RNA polymerase beta chain

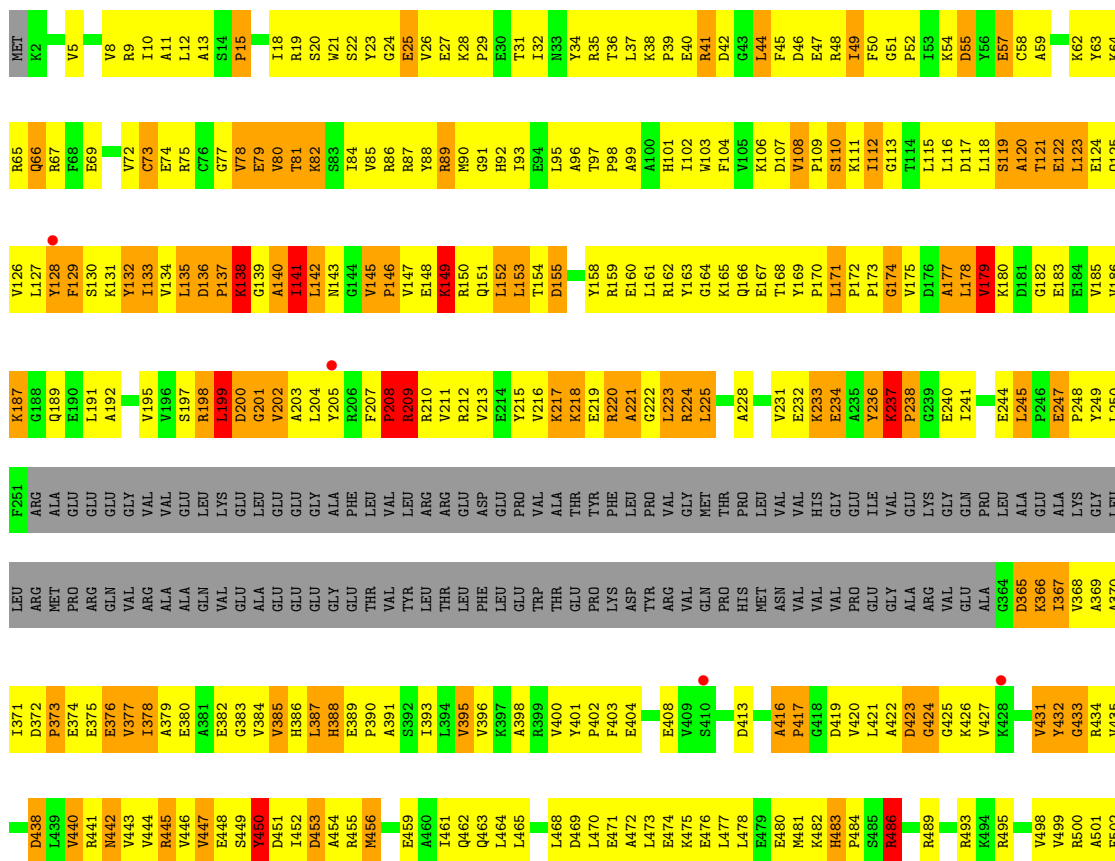
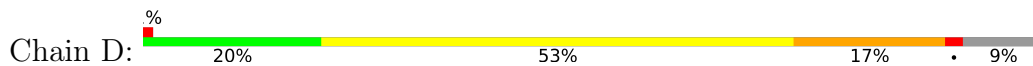
Chain C: 25% 59% 14%



G980	E981	L917	V855	T788	E720	L595	V529	D462	T398	M330	D2683	L196	V186	L69
E982	L918	L918	E856	S789	R721	Y596	E530	E463	S403	R331	P264	L197	I136	E70
Y983	A919	R722	A660	L790	I723	A597	F531	L464	L404	R332	R265	R198	V137	Y71
E984	Q920	T723	M858	R791	T723	E598	G465	G465	R403	I333	R266	V199	S138	R72
G985	A921	P792	H860	V792	R724	E599	V534	F466	H406	R334	Y267	G201	Q139	G74
P986	R922	P793	H861	P793	D725	D600	S535	I467	R405	R335	T335	G202	I140	L73
L987	E923	I726	L861	P794	I726	G601	P536	R468	K407	V336	E271	Y202	H141	E75
V988	Y924	G727	P862	G795	P727	E602	Q537	T469	R408	G337	E271	D203	R142	P76
V989	D863	H728	D863	E796	H728	V603	K538	P470	R409	E338	A272	Q204	S143	P77
G990	G927	S730	A667	I799	S730	K605	V539	R472	A412	T341	G273	E205	P144	F78
F993	R929	L734	G669	V800	D607	S541	F540	R473	L413	D342	A277	L207	V146	Q80
K996	K930	R735	G670	G808	G608	M543	M543	V475	G414	Q343	E278	R209	F148	D81
L997	G931	D736	M672	M609	M609	T544	T544	V475	G415	F344	E279	L149	F148	E82
M1000	F934	L737	L673	R610	R610	N545	N545	V478	G417	R345	E279	L211	P150	C83
V1001	G935	D738	L674	I611	I611	L546	L546	V478	L418	L348	L281	G220	D151	L88
E1002	V936	R807	A675	V612	V612	I547	I547	T480	T419	A349	G282	G220	P152	T89
D1003	D837	G741	P548	V613	V613	P548	P548	D481	R420	R350	L283	L221	A153	Y90
K1004	R939	V742	F549	R614	R614	F549	F549	E482	E421	L351	R284	H222	R154	Q91
M1005	R939	R744	L550	R615	R615	L550	L550	V484	A423	A352	L285	D223	P155	A92
H1006	E940	R744	E551	D617	D617	H552	H552	Y485	G424	G354	R288	E224	G156	P93
A1007	V941	A748	D553	G618	G618	D553	D553	M486	F425	V355	T289	V226	R157	L94
R1008	V943	V749	D554	R619	R619	D554	D554	T487	D426	R356	L290	F227	Y158	Y95
S1009	L944	K750	M556	M621	M621	M556	M556	A488	V427	E357	A291	A228	I159	A96
G1010	R945	P751	E622	E622	E622	E622	E622	T489	R428	R358	R292	H229	A160	R97
P1012	R946	P751	E622	E622	E622	E622	E622	E490	D429	M359	F293	R230	I163	L100
S1013	A947	I754	L625	L625	L625	L625	L625	E491	V430	S363	G296	R230	P164	L101
E1014	K949	V756	R626	R626	R626	R626	R626	D492	H431	E364	E297	E232	L165	H102
L1015	L950	G757	M663	M663	M663	M663	M663	R493	R432	E364	F298	E233	P166	K103
T1016	G951	R757	M664	M664	M664	M664	M664	I494	H434	L367	K299	L235	K167	D104
P1017	R952	G757	M664	M664	M664	M664	M664	I496	Y435	T368	D300	L236	R168	I105
L1021	V953	K762	Q633	Q633	Q633	Q633	Q633	A497	G436	P369	E301	R237	G169	G106
K1024	K857	E766	A636	A636	A636	A636	A636	A497	Y436	R368	I236	L238	P170	L107
F1027	T958	P767	L637	L637	L637	L637	L637	A497	G436	E301	V302	L238	W171	I108
Q1030	P959	T768	D638	D638	D638	D638	D638	A497	Y436	E301	V302	L238	K109	K109
R1031	E960	T768	D638	D638	D638	D638	D638	A497	Y436	E301	V302	L238	W171	I108
G1032	E961	P769	Q639	Q639	Q639	Q639	Q639	A497	Y436	E301	V302	L238	W171	I108
E1033	E962	E770	R640	R640	R640	R640	R640	A497	Y436	E301	V302	L238	W171	I108
M1034	R963	E771	P641	P641	P641	P641	P641	A497	Y436	E301	V302	L238	W171	I108
E1036	K964	E771	P641	P641	P641	P641	P641	A497	Y436	E301	V302	L238	W171	I108
V1037	E965	R772	H704	H704	H704	H704	H704	A497	Y436	E301	V302	L238	W171	I108
W1038	F1032	R772	H704	H704	H704	H704	H704	A497	Y436	E301	V302	L238	W171	I108
L1040	G1033	L773	V578	V578	V578	V578	V578	A497	Y436	E301	V302	L238	W171	I108
E1041	F967	L774	V579	V579	V579	V579	V579	A497	Y436	E301	V302	L238	W171	I108
Y1043	M1035	R775	M580	M580	M580	M580	M580	A497	Y436	E301	V302	L238	W171	I108
G1044	E1036	S776	L583	L583	L583	L583	L583	A497	Y436	E301	V302	L238	W171	I108
W1037	E1037	I777	E584	E584	E584	E584	E584	A497	Y436	E301	V302	L238	W171	I108
K971	K971	E780	R650	R650	R650	R650	R650	A497	Y436	E301	V302	L238	W171	I108
V972	V972	K781	K651	K651	K651	K651	K651	A497	Y436	E301	V302	L238	W171	I108
L1040	V973	A782	D714	D714	D714	D714	D714	A497	Y436	E301	V302	L238	W171	I108
E1042	L974	R783	D653	D653	D653	D653	D653	A497	Y436	E301	V302	L238	W171	I108
A1041	Y975	K783	D653	D653	D653	D653	D653	A497	Y436	E301	V302	L238	W171	I108
Y1043	D976	K851	K716	K716	K716	K716	K716	A497	Y436	E301	V302	L238	W171	I108
G1044	G977	L852	L717	L717	L717	L717	L717	A497	Y436	E301	V302	L238	W171	I108
A1045	R978	L853	G718	G718	G718	G718	G718	A497	Y436	E301	V302	L238	W171	I108
A1046	T979	P854	P719	P719	P719	P719	P719	A497	Y436	E301	V302	L238	W171	I108
F127	F127	K188	K188	K188	K188	K188	K188	A497	Y436	E301	V302	L238	W171	I108
I128	I128	R189	R189	R189	R189	R189	R189	A497	Y436	E301	V302	L238	W171	I108
I129	I129	K190	K190	K190	K190	K190	K190	A497	Y436	E301	V302	L238	W171	I108
M130	M130	F191	F191	F191	F191	F191	F191	A497	Y436	E301	V302	L238	W171	I108
G131	G131	G259	G259	G259	G259	G259	G259	A497	Y436	E301	V302	L238	W171	I108
A132	A132	L193	L193	L193	L193	L193	L193	A497	Y436	E301	V302	L238	W171	I108
D133	D133	V194	V194	V194	V194	V194	V194	A497	Y436	E301	V302	L238	W171	I108
R134	R134	L195	L195	L195	L195	L195	L195	A497	Y436	E301	V302	L238	W171	I108



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



Q1393	L1403	T1326	E1264	T1196	L1432	Y1070	F1008	T944	R877	L751	D689	R628	L503
V1394	N1404	R1327	A1265	R1197	R1133	F1071	K1009	S945	G878	S752	A690	S629	D504
L1395	A1405	L1336	L1334	Y1198	L1334	I1072	M1010	I947	R879	S753	R568	S630	R508
L1396	R1406	R1267	R1135	G1199	R1136	S1073	E1013	G946	R818	F754	E692	V631	R509
K1397	L1407	P1268	L1336	V1200	L1137	H1074	N1014	T949	E820	A755	E693	V632	P509
K1398	L1408	P1269	L1337	H1075	R1137	S1075	M1015	I949	R821	A756	V694	V633	E510
D1399	L1409	A1270	L1338	G1076	L1137	G1076	P1015	G950	A822	A757	V695	V634	M511
	L1410	Q1334	L1335	A1077	I1140	A1077	P1016	I951	L823	E758	H696	G634	M512
	L1411	L1335	L1336	R1078	E1141	R1078	F1017	D952	A759	A759	Q636	P636	I513
	L1412	L1336	L1337	K1079	L1144	G1080	M1018	D953	R885	E759	Q637	Q637	I514
	L1413	L1337	L1338	I1209	L1145	G1081	P1019	I956	V886	R760	E576	K638	E515
	L1414	L1338	L1339	D1083	G1146	A1082	Y1021	E957	E888	Q762	V639	L640	A516
	L1415	L1339	L1340	T1084	R1147	H1083	V1022	E958	A889	M763	H640	L641	V517
	L1416	L1340	L1341	H1084	L1148	I1084	M1023	K960	V891	A766	L702	G642	V518
	L1417	L1341	L1342	A1085	L1149	H1085		K961	E892	A767	M703	G643	V519
	L1418	L1342	L1343	L1086	L1150	L1086		K962	V892	A768	R704	G644	L520
	L1419	L1343	L1344	R1087	R1151	L1087	S1026	K963	K894	H767	A705	L644	P521
	L1420	L1344	L1345	T1088	E1152	L1088	G1027	K964	K895	M768	P706	L645	M522
	L1421	L1345	L1346	L1089	V1153	L1089	A1028	K965	V896	L769	T707	K646	D523
	L1422	L1346	L1347	S1091	V1154	L1090	R1029	K966	A897	S771	H709	R647	L524
	L1423	L1347	L1348	V1099	E1155	V1099	G1030	K967	V897	A771	M648	M648	R525
	L1424	L1348	L1349	D1100	E1162	H1100	I1031	K968	K837	G775	A649	A649	P526
	L1425	L1349	L1350	V1101	L1163	V1101	M1032	K969	E898	E776	L650	L650	M527
	L1426	L1350	L1351	H1102	G1164	G1102	P1033	K970	R899	F777	E651	E651	V528
	L1427	L1351	L1352	H1103	V1165	T1095	G1034	K971	I901	E778	L652	L652	Q529
	L1428	L1352	L1353	E1104	R1166	L1095	I1035	K972	R902	L778	F653	F653	V530
	L1429	L1353	L1354	E1105	L1167	V1107	R1036	K973	Q906	F781	F716	K654	G533
	L1430	L1354	L1355	V1105	E1168	H1105	G1043	K974	K912	G782	Q717	P655	G534
	L1431	L1355	L1356	V1106	G1169	V1106	L1044	K975	R913	S783	P718	F656	R534
	L1432	L1356	L1357	H1107	D1170	H1107	M1045	K976	K914	E784	V719	F657	F535
	L1433	L1357	L1358	E1108	V1171	H1108	Q1046	K977	R915	I785	L720	L658	A536
	L1434	L1358	L1359	A1110	R1172	E1109	K1047	K978	K916	I786	G723	K659	T537
	L1435	L1359	L1360	A1111	L1173	A1111	P1048	K979	K917	G787	I726	K660	S538
	L1436	L1360	L1361	D1111	L1174	D1111	S1049	K980	R918	L788	R601	M661	D539
	L1437	L1361	L1362	C1112	L1175	C1112	G1050	K981	A919	G789	S602	E662	L540
	L1438	L1362	L1363	H1113	L1176	H1113	G1051	K982	F919	T792	L603	E663	M541
	L1439	L1363	L1364	T1114	K1177	T1114	E1052	K983	R921	R795	G609	L666	D542
	L1440	L1364	L1365	T1115	A1177	T1115	F1053	K984	L922	K796	V732	L667	L543
	L1441	L1365	L1366	M1116	E1178	M1116	E1054	K985	K926	E797	E734	A672	M549
	L1442	L1366	L1367	Y1117	E1179	Y1117	V1055	K986	K927	E798	A735	A673	R550
	L1443	L1367	L1368	L1118	L1182	L1118	P1056	K987	R929	K800	F736	A674	M551
	L1444	L1368	L1369	S1119	I1183	S1119	V1057	K988	R930	G801	F614	R675	N552
	L1445	L1369	L1370	H1120	Q1184	H1120	R1058	K989	L931	A802	R613	M676	R553
	L1446	L1370	L1371	L1121	Q1184	L1121	S1059	K990	D932	G803	Q616	L677	L554
	L1447	L1371	L1372	L1122	P1187	L1122	S1060	K991	A933	L804	M617	E678	M549
	L1448	L1372	L1373	L1123	P1187	L1123	F1061	K992	A934	E905	L618	R679	L557
	L1449	L1373	L1374	F1124	R1188	F1124	R1062	K993	R934	F806	Q690	Q690	L588
	L1450	L1374	L1375	H1242	V1189	H1242	E1063	K994	K935	R806	D743	R681	L589
	L1451	L1375	L1376	G1243	Q1184	G1243	G1064	K995	Y936	A807	Q621	Q621	Q560
	L1452	L1376	L1377	G1244	P1184	G1244	S1065	K996	A935	T808	R622	R622	G561
	L1453	L1377	L1378	G1245	P1187	G1245	S1066	K997	A936	F809	D624	D624	F563
	L1454	L1378	L1379	D1251	L1182	D1251	F1066	K998	R937	A812	V625	V625	E564
	L1455	L1379	L1380	L1256	I1183	L1256	T1067	K999	R938	L813	E564	E564	I565
	L1456	L1380	L1381	L1257	Q1184	L1257	T1068	K999	A938	A814	G627	G627	I566
	L1457	L1381	L1382	G1284	Q1184	G1284	T1069	K999	A939				
	L1458	L1382	L1383	G1285	P1187	G1285	F1067	K999	R939				
	L1459	L1383	L1384	L1258	R1188	L1258	R1068	K999	R940				
	L1460	L1384	L1385	P1257	V1189	P1257	E1069	K999	F941				
	L1461	L1385	L1386	L1259	Q1184	L1259	G1070	K999	T942				
	L1462	L1386	L1387	V1259	P1191	V1259	K1002	K999	T943				
	L1463	L1387	L1388	L1260	L1192	L1260	V1003	K999					
	L1464	L1388	L1389	L1261	L1193	L1261	T1004	K999					
	L1465	L1389	L1390	L1262	L1194	L1262	V1007	K999					
	L1466	L1390	L1391	F1263	Q1195	F1263		K999					
	L1467	L1391	L1392					K999					

T267
L271
S272
R273
T274
A275
R276
Q277
L278
Q279
Q280
E281
L282
G283
R284
E285
P286
T287
Y288
E289
E290
I291
M295
G296
P297
G298
Y299
D300
A301
K302
R303
V304
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I333
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V368
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K370
L371
R372
K373
G374
L375
I376
D377
G378
ARG
GLU
HIS
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LEU
E384
E385
V386
G387
A388
F389
V392
T393
R394
E395
R396
I397
R398
R399
R400
I401
E401
N402
K403
A404
L405
R406
K407
L408
K409
Y410
H411
R414
T415
R416
K417
L418
R419
D420
F421
L422
D423

4 Data and refinement statistics i

Property	Value	Source
Space group	P 32	Depositor
Cell constants a, b, c, α , β , γ	237.00Å 237.00Å 250.00Å 90.00° 90.00° 120.00°	Depositor
Resolution (Å)	30.00 – 3.00 29.89 – 3.00	Depositor EDS
% Data completeness (in resolution range)	77.9 (30.00-3.00) 42.8 (29.89-3.00)	Depositor EDS
R_{merge}	0.12	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.12 (at 3.00Å)	Xtrriage
Refinement program	CNS	Depositor
R, R_{free}	0.261 , 0.281 0.258 , (Not available)	Depositor DCC
R_{free} test set	No test flags present.	wwPDB-VP
Wilson B-factor (Å ²)	71.1	Xtrriage
Anisotropy	0.354	Xtrriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.23 , -24.5	EDS
L-test for twinning ²	$\langle L \rangle = 0.44$, $\langle L^2 \rangle = 0.27$	Xtrriage
Estimated twinning fraction	0.499 for -h,-k,l 0.499 for h,-h-k,-l 0.044 for -k,-h,-l	Xtrriage
F_o, F_c correlation	0.91	EDS
Total number of atoms	54048	wwPDB-VP
Average B, all atoms (Å ²)	71.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 6.81% of the height of the origin peak. No significant pseudotranslation is detected.*

¹Intensities estimated from amplitudes.

²Theoretical values of $\langle |L| \rangle$, $\langle L^2 \rangle$ for acentric reflections are 0.5, 0.333 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: STD, ZN, MG

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
1	A	0.43	0/1838	0.76	0/2498
1	B	0.38	0/1838	0.64	0/2498
1	K	0.46	0/1838	0.75	0/2498
1	L	0.39	0/1838	0.66	0/2498
2	C	0.45	0/8997	0.76	5/12164 (0.0%)
2	M	0.44	0/8997	0.76	5/12164 (0.0%)
3	D	0.46	0/11165	0.78	13/15088 (0.1%)
3	N	0.45	0/11165	0.78	14/15088 (0.1%)
4	E	0.40	0/783	0.77	2/1054 (0.2%)
4	O	0.44	0/783	0.82	1/1054 (0.1%)
5	F	0.41	0/2836	0.70	1/3812 (0.0%)
5	P	0.41	0/2836	0.69	0/3812
All	All	0.44	0/54914	0.76	41/74228 (0.1%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
2	C	0	1
3	D	0	1
3	N	0	1
All	All	0	3

There are no bond length outliers.

All (41) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	D	81	THR	N-CA-C	-7.96	89.51	111.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	M	728	HIS	N-CA-C	7.59	131.49	111.00
4	O	49	GLN	N-CA-C	7.23	130.53	111.00
3	N	1209	LEU	N-CA-C	-7.22	91.50	111.00
3	D	1209	LEU	N-CA-C	-7.04	92.00	111.00
3	N	1420	LEU	CA-CB-CG	6.81	130.96	115.30
2	C	729	LEU	N-CA-C	6.39	128.24	111.00
3	N	1239	ARG	N-CA-C	6.36	128.16	111.00
2	C	319	GLY	N-CA-C	-6.35	97.22	113.10
2	C	728	HIS	N-CA-C	6.11	127.49	111.00
2	M	319	GLY	N-CA-C	-6.10	97.86	113.10
3	N	198	ARG	N-CA-C	6.07	127.38	111.00
4	E	49	GLN	N-CA-C	6.00	127.20	111.00
3	D	380	GLU	N-CA-C	-5.99	94.82	111.00
3	D	554	LEU	CA-CB-CG	5.97	129.03	115.30
2	C	591	SER	N-CA-C	-5.96	94.89	111.00
3	N	1127	GLU	N-CA-C	-5.95	94.93	111.00
3	D	1043	GLY	N-CA-C	5.92	127.91	113.10
3	N	1204	CYS	CA-CB-SG	5.76	124.37	114.00
3	D	1068	LEU	CA-CB-CG	-5.60	102.42	115.30
2	M	243	ARG	N-CA-C	5.58	126.07	111.00
3	D	1110	ALA	N-CA-C	-5.57	95.97	111.00
2	M	608	GLY	N-CA-C	-5.53	99.28	113.10
3	D	198	ARG	N-CA-C	5.46	125.74	111.00
3	N	804	LEU	CA-CB-CG	5.46	127.86	115.30
3	N	1128	VAL	N-CA-C	-5.45	96.28	111.00
3	D	208	PRO	N-CA-C	5.42	126.20	112.10
3	D	1239	ARG	N-CA-C	5.40	125.58	111.00
3	D	209	ARG	N-CA-C	5.33	125.39	111.00
5	F	358	LEU	CA-CB-CG	5.33	127.56	115.30
3	D	581	LEU	CA-CB-CG	5.30	127.49	115.30
3	N	1043	GLY	N-CA-C	5.28	126.31	113.10
4	E	51	LEU	N-CA-C	-5.25	96.84	111.00
3	D	723	GLY	N-CA-C	5.24	126.19	113.10
3	N	1110	ALA	N-CA-C	-5.23	96.89	111.00
3	N	81	THR	N-CA-C	-5.19	96.98	111.00
2	M	455	LEU	CA-CB-CG	5.18	127.22	115.30
3	N	1116	ASN	N-CA-C	-5.13	97.14	111.00
2	C	417	GLY	N-CA-C	-5.09	100.37	113.10
3	N	1064	GLY	N-CA-C	5.06	125.75	113.10
3	N	1389	LEU	N-CA-C	5.04	124.60	111.00

There are no chirality outliers.

All (3) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
2	C	258	TYR	Sidechain
3	D	132	TYR	Sidechain
3	N	625	TYR	Sidechain

5.2 Too-close contacts [i](#)

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	1806	0	1861	279	0
1	B	1806	0	1861	211	0
1	K	1806	0	1861	232	0
1	L	1806	0	1861	210	0
2	C	8829	0	8933	1148	0
2	M	8829	0	8933	1178	0
3	D	10975	0	11213	1653	0
3	N	10975	0	11212	1616	0
4	E	769	0	775	99	0
4	O	769	0	775	87	0
5	F	2793	0	2873	320	0
5	P	2793	0	2873	362	0
6	D	43	0	44	10	0
6	M	43	0	44	8	0
7	D	2	0	0	0	0
7	N	2	0	0	0	0
8	D	1	0	0	0	0
8	N	1	0	0	0	0
All	All	54048	0	55119	6892	0

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 63.

All (6892) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:673:LEU:HD23	2:C:867:VAL:HA	1.22	1.20

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:141:ILE:H	3:D:141:ILE:HD12	1.11	1.16
3:N:172:PRO:HB3	3:N:178:LEU:HD22	1.22	1.16
2:C:857:ASP:HB2	2:C:978:ARG:HG2	1.29	1.15
3:D:1304:LYS:H	3:D:1304:LYS:HD3	1.03	1.15
5:P:120:THR:HG22	5:P:122:LEU:HD13	1.24	1.14
3:D:1062:ARG:HH11	3:D:1062:ARG:HG3	1.12	1.14
3:N:44:LEU:HB3	3:N:525:ARG:NH2	1.63	1.13
3:D:205:TYR:HB3	3:D:393:ILE:HD13	1.31	1.11
3:D:1262:LEU:HD23	3:D:1352:ILE:HG13	1.17	1.11
2:C:263:ASP:HB2	2:C:264:PRO:HD3	1.27	1.11
5:F:161:GLN:HA	5:F:164:LYS:HE2	1.28	1.11
2:C:460:ARG:HD3	2:C:485:TYR:HE2	1.14	1.11
2:C:1016:ILE:HD13	2:C:1016:ILE:H	1.09	1.11
3:D:44:LEU:HB3	3:D:525:ARG:HH21	1.08	1.11
3:D:108:VAL:HB	3:D:109:PRO:HD3	1.27	1.11
3:D:1223:ILE:H	3:D:1223:ILE:HD12	1.07	1.10
3:N:809:PRO:HB2	3:N:812:ALA:HB2	1.32	1.10
3:D:186:VAL:HG13	3:D:187:LYS:H	1.17	1.09
2:M:432:ARG:HH22	3:N:1047:LYS:HD3	1.16	1.09
4:O:54:LEU:HG	4:O:58:PRO:HG2	1.31	1.09
3:N:1109:GLU:HG2	3:N:1202:GLN:H	1.07	1.09
3:D:584:ASN:HD21	3:D:590:PRO:HD2	1.03	1.09
1:A:42:ARG:HH12	2:C:857:ASP:HB3	1.16	1.08
3:D:1277:ILE:HG22	3:D:1278:ASP:H	1.19	1.08
3:N:187:LYS:HE2	3:N:213:VAL:HG12	1.30	1.08
3:N:1147:ARG:HB3	3:N:1188:VAL:HG21	1.28	1.08
1:A:197:LEU:HD23	1:A:197:LEU:H	1.12	1.07
3:D:197:SER:HB3	3:D:203:ALA:HB3	1.31	1.07
2:C:537:LYS:HA	2:C:545:ASN:HD21	1.16	1.07
3:D:95:LEU:HD11	3:D:517:VAL:HG23	1.35	1.07
3:D:493:ARG:HH21	3:D:1389:LEU:HD21	1.18	1.07
2:M:139:GLN:HE22	2:M:415:PRO:HD3	1.17	1.07
3:N:785:ILE:H	3:N:785:ILE:HD12	1.19	1.07
2:M:183:SER:HB2	2:M:190:LYS:HG2	1.32	1.07
3:N:692:GLU:HG2	3:N:720:LEU:HD12	1.32	1.07
3:D:907:GLU:HG2	3:D:908:LYS:H	1.00	1.06
3:D:1433:SER:HB2	3:D:1457:ASP:OD2	1.54	1.06
2:M:1016:ILE:H	2:M:1016:ILE:HD13	1.19	1.06
2:C:987:ILE:HG23	3:D:948:THR:HG21	1.37	1.06
3:D:145:VAL:HG22	3:D:146:PRO:HD2	1.29	1.06
3:N:148:GLU:HB3	3:N:151:GLN:HB2	1.32	1.06

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1258:ARG:HH21	3:N:1351:GLU:HG2	1.15	1.06
3:D:584:ASN:ND2	3:D:590:PRO:HD2	1.70	1.06
2:M:691:SER:HB2	2:M:858:MET:SD	1.94	1.06
3:N:715:ALA:HB3	3:N:764:LEU:HA	1.33	1.05
5:P:361:LEU:HD21	5:P:408:LEU:HB2	1.38	1.04
2:C:602:GLU:HG2	2:C:603:VAL:H	1.20	1.04
2:C:906:PHE:CD1	3:D:1067:VAL:HG22	1.92	1.04
3:D:387:LEU:HD13	5:F:97:GLU:HB2	1.37	1.04
3:D:425:GLY:O	3:D:427:VAL:HG23	1.58	1.03
5:F:392:VAL:HG11	5:F:396:ARG:HD3	1.38	1.03
2:M:650:ARG:HD3	2:M:650:ARG:H	1.14	1.03
2:M:325:ILE:H	2:M:325:ILE:HD12	1.18	1.03
3:N:119:SER:H	3:N:123:LEU:HD12	1.24	1.02
1:A:43:ILE:HD11	1:B:35:THR:HG21	1.40	1.02
2:C:889:HIS:HE1	3:D:951:ILE:H	1.06	1.02
3:D:116:LEU:HB3	3:D:118:LEU:HD13	1.40	1.02
3:D:543:LEU:HD22	3:D:580:ALA:HB1	1.41	1.02
3:D:119:SER:HB2	3:D:123:LEU:N	1.73	1.02
2:M:86:LYS:HG3	2:M:813:VAL:HG12	1.37	1.02
3:N:136:ASP:HB3	3:N:137:PRO:HD3	1.40	1.02
2:C:34:VAL:HB	2:C:38:LYS:HG3	1.41	1.02
2:C:902:ILE:HG22	2:C:904:PRO:HD3	1.38	1.02
3:D:1201:CYS:SG	3:D:1204:CYS:HB2	2.01	1.01
3:N:984:THR:HG22	3:N:987:GLU:HB2	1.41	1.01
2:C:516:ARG:CZ	3:D:1068:LEU:HD22	1.89	1.01
2:C:265:ARG:HG3	2:C:288:ARG:HG3	1.43	1.00
3:N:654:LYS:HB3	3:N:655:PRO:HD3	1.43	1.00
3:D:131:LYS:HG3	3:D:568:ARG:HG2	1.43	1.00
4:E:23:VAL:HG21	4:E:65:MET:HG2	1.42	1.00
1:B:86:VAL:N	1:B:124:ASN:HD22	1.60	1.00
2:C:966:LEU:HD21	2:C:986:PRO:HG2	1.43	1.00
1:A:35:THR:HG21	1:B:43:ILE:HD11	1.44	0.99
3:D:654:LYS:HB3	3:D:655:PRO:HD3	1.43	0.99
3:N:368:VAL:HG22	3:N:369:ALA:H	1.26	0.99
3:D:1129:THR:HG23	3:D:1130:ARG:H	1.25	0.99
1:K:86:VAL:HG12	1:K:124:ASN:ND2	1.78	0.99
2:M:512:ARG:HG2	2:M:523:ILE:HD11	1.41	0.99
2:M:172:ILE:H	2:M:172:ILE:HD12	1.27	0.99
3:N:133:ILE:HG21	3:N:454:ALA:HB1	1.44	0.99
3:N:1213:ARG:HB2	3:N:1214:PRO:HD2	1.43	0.99
3:D:969:ARG:HB3	3:D:969:ARG:HH11	1.22	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:206:THR:HB	1:A:209:GLU:HG3	1.43	0.99
3:N:423:ASP:HB2	5:P:178:ARG:HB2	1.44	0.99
1:B:206:THR:HB	1:B:209:GLU:HG3	1.43	0.99
4:E:54:LEU:HA	4:E:58:PRO:HG2	1.41	0.99
3:D:1273:VAL:HG22	3:D:1326:THR:OG1	1.62	0.99
2:M:693:GLU:HA	2:M:696:LYS:HD2	1.44	0.98
2:C:413:LEU:H	2:C:413:LEU:HD12	1.25	0.98
2:C:1054:THR:HG22	2:C:1059:ASP:HB2	1.41	0.98
1:K:150:TYR:HE2	1:K:152:PRO:HG3	1.26	0.98
3:N:781:PRO:HB2	3:N:911:LEU:HD23	1.46	0.98
3:N:1065:LEU:HD23	3:N:1070:TYR:HD2	1.29	0.98
5:P:129:GLU:HB3	5:P:142:ARG:HH22	1.29	0.98
3:N:621:LYS:O	3:N:622:ARG:HG3	1.62	0.98
3:N:1277:ILE:HG22	3:N:1278:ASP:H	1.24	0.98
2:M:470:PRO:HB2	2:M:534:VAL:HG21	1.44	0.97
5:P:406:ARG:HA	5:P:409:LYS:HG2	1.46	0.97
2:C:480:THR:HG22	2:C:482:GLU:H	1.27	0.97
2:C:658:GLY:H	2:C:661:SER:HB2	1.27	0.97
2:M:1097:LEU:HD23	3:N:10:ILE:HD13	1.46	0.97
2:C:368:THR:HB	2:C:369:PRO:HD3	1.47	0.97
2:M:1031:ARG:HH11	3:N:619:LEU:HD22	1.29	0.97
2:C:474:VAL:HG11	2:C:529:VAL:HG12	1.44	0.97
3:D:1432:LYS:HD2	3:D:1433:SER:H	1.30	0.97
2:C:183:SER:HB3	2:C:190:LYS:HD3	1.47	0.97
3:D:162:ARG:HG3	3:D:163:TYR:H	1.30	0.97
5:F:386:VAL:HG13	5:F:387:GLY:H	1.27	0.97
2:M:352:ALA:HA	2:M:355:VAL:HG12	1.44	0.97
3:D:907:GLU:HG2	3:D:908:LYS:N	1.79	0.96
5:F:88:ILE:HD13	5:F:193:ARG:HB2	1.46	0.96
3:N:387:LEU:HD12	5:P:96:LEU:HB2	1.45	0.96
3:N:1189:ARG:HH21	3:N:1203:LYS:HB2	1.30	0.96
2:C:627:ARG:HG3	2:C:628:PHE:H	1.31	0.96
1:B:5:LYS:HA	1:B:5:LYS:HE3	1.44	0.96
3:D:378:ILE:H	3:D:378:ILE:HD13	1.28	0.96
2:M:629:TYR:HB2	2:M:637:LEU:HD11	1.44	0.95
1:A:62:LEU:HD12	1:A:62:LEU:H	1.31	0.95
3:N:736:PHE:HD1	3:N:736:PHE:H	1.11	0.95
2:C:443:THR:HG21	2:C:450:GLY:H	1.30	0.95
5:P:88:ILE:HD13	5:P:193:ARG:HB2	1.47	0.95
3:D:136:ASP:HB3	3:D:137:PRO:CD	1.96	0.95
2:C:460:ARG:HD3	2:C:485:TYR:CE2	2.01	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:705:ALA:HB3	3:N:706:PRO:HD3	1.44	0.95
3:D:477:LEU:HA	3:D:480:GLU:HB3	1.45	0.95
2:M:129:ILE:HG22	2:M:130:ASN:N	1.81	0.95
3:D:141:ILE:HD11	3:D:450:TYR:H	1.30	0.95
3:D:422:ALA:HB3	3:D:427:VAL:HG22	1.45	0.95
5:F:77:THR:O	5:F:81:VAL:HG23	1.66	0.95
5:F:350:LEU:HD12	5:F:422:LEU:HD12	1.47	0.95
2:M:265:ARG:HG3	2:M:288:ARG:HG3	1.49	0.94
5:F:79:ASP:HB3	5:F:80:PRO:HD3	1.47	0.94
3:D:528:VAL:HG23	3:D:536:ALA:HB3	1.48	0.94
3:D:908:LYS:HB2	3:D:1027:GLY:HA3	1.49	0.94
5:F:393:THR:HG22	5:F:394:ARG:H	1.31	0.94
2:M:18:LEU:HA	2:M:408:ARG:NH2	1.82	0.94
3:N:26:VAL:HG11	3:N:44:LEU:HD23	1.48	0.93
2:C:22:GLN:HE22	2:C:336:VAL:HG21	1.30	0.93
3:D:520:LEU:HD12	3:D:521:PRO:HD2	1.51	0.93
1:A:124:ASN:OD1	1:A:127:LEU:HB3	1.67	0.93
2:M:250:ARG:HB3	2:M:253:ALA:HB2	1.51	0.93
2:M:1060:ILE:HG13	2:M:1083:GLU:HG3	1.51	0.93
2:C:115:LEU:HD23	2:C:115:LEU:H	1.34	0.93
3:D:1101:VAL:HG22	3:D:1428:ALA:HB2	1.47	0.93
3:N:1393:GLN:HB2	3:N:1398:TRP:HE1	1.31	0.93
2:C:537:LYS:HA	2:C:545:ASN:ND2	1.84	0.93
3:N:441:ARG:HB3	3:N:443:VAL:HG23	1.51	0.93
3:D:1152:GLU:H	3:D:1162:GLU:HB2	1.30	0.92
3:D:400:VAL:HA	3:D:442:ASN:O	1.70	0.92
1:A:90:LEU:HD12	1:A:119:ASP:HA	1.51	0.92
3:N:1109:GLU:HG2	3:N:1202:GLN:N	1.84	0.92
1:A:91:ASN:OD1	1:A:92:PRO:HD2	1.69	0.92
2:M:415:PRO:HB2	2:M:418:LEU:HD23	1.50	0.92
3:N:141:ILE:HG22	3:N:142:LEU:H	1.34	0.92
3:D:234:GLU:HB3	3:D:240:GLU:HB2	1.52	0.92
2:M:30:LEU:O	2:M:30:LEU:HD12	1.69	0.92
2:M:1111:ILE:HG13	2:M:1112:PHE:HD1	1.35	0.92
3:N:385:VAL:HG22	5:P:232:ARG:HH12	1.35	0.92
5:F:136:LEU:HD12	5:F:137:GLY:H	1.34	0.92
2:M:889:HIS:HE1	3:N:951:ILE:H	1.18	0.92
1:A:18:ARG:HH12	1:A:88:ARG:NE	1.67	0.92
3:D:1264:GLU:HG2	3:D:1266:ARG:CZ	1.98	0.92
1:K:206:THR:HG22	1:K:209:GLU:H	1.32	0.92
3:N:668:PRO:HD2	3:N:672:ALA:HB1	1.51	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1018:ASN:O	3:N:1022:VAL:HG23	1.68	0.92
3:D:565:ILE:H	3:D:565:ILE:HD12	1.35	0.92
2:C:575:GLN:H	2:C:667:ALA:HB1	1.33	0.92
2:C:689:VAL:HG12	2:C:851:LYS:HB3	1.52	0.92
3:D:218:LYS:HZ3	3:D:370:ALA:HA	1.33	0.92
5:P:386:VAL:HG22	5:P:394:ARG:HG2	1.51	0.92
1:B:152:PRO:HD2	1:B:155:LYS:HD2	1.51	0.91
2:C:21:ILE:H	2:C:21:ILE:HD12	1.33	0.91
2:M:129:ILE:HG22	2:M:130:ASN:H	1.33	0.91
3:D:119:SER:HB2	3:D:123:LEU:H	1.30	0.91
3:D:902:LEU:HD23	3:D:902:LEU:H	1.35	0.91
2:M:478:VAL:HG13	2:M:506:ASN:HB3	1.48	0.91
3:D:877:PRO:O	3:D:880:ILE:HG22	1.71	0.91
3:D:1389:LEU:HD23	3:D:1389:LEU:H	1.36	0.91
1:K:86:VAL:H	1:K:124:ASN:HD22	1.16	0.91
3:D:570:GLU:HB2	5:F:214:GLN:NE2	1.84	0.91
3:N:809:PRO:HB2	3:N:812:ALA:CB	2.01	0.91
3:D:1262:LEU:HD23	3:D:1352:ILE:CG1	2.02	0.90
2:C:889:HIS:CE1	3:D:951:ILE:H	1.88	0.90
2:M:77:PRO:HD3	2:M:93:PRO:HD3	1.53	0.90
2:M:737:LEU:HD22	2:M:741:GLY:O	1.69	0.90
2:C:524:VAL:HG22	2:C:525:SER:H	1.36	0.90
3:D:907:GLU:CG	3:D:908:LYS:H	1.85	0.90
5:F:271:LEU:HD22	5:F:291:ILE:HD11	1.54	0.90
5:F:361:LEU:HD11	5:F:408:LEU:HD12	1.50	0.90
3:N:1084:THR:HG22	3:N:1087:ARG:NH2	1.86	0.90
3:D:1381:VAL:HB	3:D:1389:LEU:O	1.71	0.90
2:M:1052:MET:HE3	3:N:623:VAL:HG21	1.53	0.90
1:A:201:THR:HG22	1:A:203:GLY:H	1.35	0.90
2:C:289:THR:HG22	2:C:290:LEU:HD23	1.51	0.90
3:D:1280:VAL:HG12	3:D:1281:VAL:H	1.34	0.90
2:M:176:VAL:HG12	2:M:182:VAL:HG13	1.51	0.90
3:N:792:ILE:HD11	3:N:881:LEU:HD23	1.53	0.90
3:D:175:VAL:HG13	3:D:217:LYS:HG2	1.51	0.90
3:N:179:VAL:HG11	3:N:217:LYS:HZ1	1.37	0.90
3:N:644:LEU:HD12	3:N:645:PRO:HD2	1.54	0.90
2:C:110:GLU:HG2	2:C:369:PRO:HG3	1.54	0.90
2:M:987:ILE:HG23	3:N:948:THR:HG21	1.53	0.90
2:M:157:ARG:HD2	2:M:314:THR:HG22	1.52	0.90
3:N:139:GLY:O	3:N:147:VAL:HG22	1.71	0.90
1:B:151:VAL:H	1:B:169:ALA:HB3	1.34	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:133:GLU:OE2	2:C:605:LYS:HE2	1.72	0.89
1:B:86:VAL:H	1:B:124:ASN:ND2	1.70	0.89
2:C:690:ILE:HB	2:C:852:ILE:HD13	1.54	0.89
3:D:62:LYS:HD2	3:D:63:TYR:CE1	2.08	0.89
3:N:1258:ARG:CZ	3:N:1262:LEU:HD11	2.03	0.89
4:E:54:LEU:HA	4:E:58:PRO:CG	2.03	0.89
3:N:119:SER:HB2	3:N:123:LEU:H	1.36	0.89
3:N:1114:THR:HG22	3:N:1116:ASN:ND2	1.87	0.89
5:F:321:ILE:HD13	5:F:322:GLY:N	1.88	0.89
2:M:516:ARG:NE	3:N:1068:LEU:HD13	1.88	0.89
1:B:86:VAL:HG12	1:B:124:ASN:ND2	1.88	0.89
1:K:175:ARG:HE	1:K:202:ASP:HA	1.38	0.89
2:M:89:THR:HA	2:M:129:ILE:O	1.73	0.89
2:M:368:THR:HB	2:M:369:PRO:HD3	1.55	0.89
2:M:1000:MET:HE3	2:M:1001:VAL:HG13	1.55	0.89
3:N:675:ARG:O	3:N:678:GLU:HG2	1.73	0.88
1:A:27:PRO:HG2	1:A:186:LEU:HD22	1.54	0.88
1:B:23:PHE:HE1	1:B:208:LEU:HD22	1.37	0.88
3:D:1086:LEU:HA	6:D:1525:STD:H32	1.55	0.88
3:D:1220:ALA:HB1	3:D:1223:ILE:HD13	1.52	0.88
3:N:1389:LEU:H	3:N:1389:LEU:HD23	1.35	0.88
2:C:874:LEU:HD12	3:D:784:ASP:OD2	1.73	0.88
3:D:1231:GLU:HB3	3:D:1232:PRO:HD3	1.54	0.88
2:M:290:LEU:HD23	2:M:290:LEU:H	1.38	0.88
5:P:94:LEU:HD12	5:P:97:GLU:H	1.38	0.88
2:C:1071:ILE:HD11	3:D:655:PRO:HB3	1.56	0.88
2:C:516:ARG:NH2	3:D:1068:LEU:HB3	1.89	0.88
3:D:44:LEU:HB3	3:D:525:ARG:NH2	1.87	0.88
2:M:146:VAL:HG12	2:M:162:ILE:HA	1.53	0.88
2:M:279:GLU:HG3	2:M:280:LYS:HG3	1.54	0.88
2:M:926:PHE:HE2	2:M:960:GLU:HG3	1.38	0.88
3:D:1223:ILE:H	3:D:1223:ILE:CD1	1.85	0.88
2:M:15:LEU:H	2:M:15:LEU:HD12	1.36	0.88
3:N:591:VAL:HA	3:N:600:LEU:HD21	1.56	0.88
1:B:23:PHE:CE1	1:B:208:LEU:HD22	2.09	0.87
2:M:1031:ARG:NH1	3:N:619:LEU:HD22	1.89	0.87
3:N:1197:ARG:CD	3:N:1396:GLU:HB2	2.05	0.87
1:L:154:GLU:OE1	3:N:840:LYS:HG3	1.73	0.87
3:N:141:ILE:H	3:N:141:ILE:HD12	1.38	0.87
3:N:1101:VAL:HG11	3:N:1424:VAL:HG23	1.55	0.87
2:C:516:ARG:NE	3:D:1068:LEU:HD13	1.90	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1078:ARG:HB3	3:N:1078:ARG:HH11	1.39	0.87
2:M:139:GLN:HE22	2:M:415:PRO:CD	1.86	0.87
3:N:422:ALA:HB3	3:N:427:VAL:HG22	1.56	0.87
5:P:129:GLU:HB3	5:P:142:ARG:NH2	1.88	0.87
3:N:18:ILE:HG23	3:N:518:PRO:HG3	1.57	0.87
3:N:187:LYS:CE	3:N:213:VAL:HG12	2.05	0.87
3:N:794:GLN:NE2	3:N:795:VAL:H	1.73	0.87
2:C:1096:ALA:HB2	3:D:514:LEU:HD21	1.57	0.87
2:M:775:ARG:HB3	2:M:780:GLU:HA	1.56	0.87
5:F:151:LEU:HB2	5:F:155:THR:H	1.39	0.87
3:D:127:LEU:HD22	3:D:134:VAL:HG21	1.57	0.86
3:N:60:CYS:SG	3:N:61:GLY:N	2.48	0.86
1:A:123:MET:C	1:A:125:PRO:HD3	1.96	0.86
3:D:1379:VAL:HG11	3:D:1395:LEU:HD23	1.57	0.86
3:D:221:ALA:HB3	3:D:367:ILE:HB	1.56	0.86
2:M:266:ARG:O	2:M:272:ALA:HB3	1.73	0.86
3:N:984:THR:CG2	3:N:987:GLU:HB2	2.04	0.86
5:P:135:ILE:HD11	5:P:178:ARG:HB3	1.57	0.86
2:C:292:ARG:HH11	2:C:299:LYS:HD3	1.40	0.86
2:M:145:GLY:HA3	2:M:276:LYS:HD2	1.56	0.86
2:C:568:ALA:HB3	2:C:668:LEU:HD22	1.58	0.86
3:D:212:ARG:HD2	3:D:445:ARG:HH22	1.38	0.86
3:D:1304:LYS:HD3	3:D:1304:LYS:N	1.86	0.86
2:M:188:LYS:HD3	2:M:189:ARG:N	1.90	0.86
2:C:1021:LEU:HD22	5:F:331:ASP:O	1.76	0.86
2:M:1009:SER:HB2	3:N:651:GLU:OE1	1.75	0.86
1:B:103:ALA:HB1	1:B:107:LYS:HD3	1.58	0.86
3:D:798:GLU:HG2	3:D:799:LYS:H	1.40	0.86
3:D:1326:THR:HG22	3:D:1327:ARG:H	1.37	0.86
1:K:91:ASN:OD1	1:K:92:PRO:HD2	1.76	0.86
2:M:605:LYS:HB2	2:M:610:ARG:HH12	1.41	0.86
4:E:54:LEU:HG	4:E:58:PRO:HG2	1.57	0.85
3:N:799:LYS:HD2	3:N:799:LYS:O	1.74	0.85
2:M:266:ARG:H	2:M:266:ARG:HD2	1.41	0.85
2:C:1095:LEU:O	2:C:1097:LEU:N	2.08	0.85
3:D:659:LYS:HE3	3:D:663:GLU:OE1	1.77	0.85
3:D:945:SER:OG	3:D:947:ILE:HG23	1.76	0.85
2:C:516:ARG:NH1	3:D:1068:LEU:HD22	1.90	0.85
3:D:1062:ARG:HG3	3:D:1062:ARG:NH1	1.90	0.85
3:N:44:LEU:HB3	3:N:525:ARG:HH22	1.36	0.85
5:F:280:GLN:OE1	5:F:281:GLU:HB2	1.75	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:266:ARG:HG2	2:M:273:GLY:HA3	1.58	0.85
3:N:550:ARG:NH1	3:N:577:ALA:HB2	1.91	0.85
3:D:703:ASN:O	3:D:745:MET:HG3	1.74	0.85
4:O:54:LEU:HG	4:O:58:PRO:CG	2.06	0.85
1:A:42:ARG:NH1	2:C:857:ASP:HB3	1.90	0.85
3:D:705:ALA:CB	3:D:706:PRO:HD3	2.06	0.85
5:F:154:LYS:O	5:F:158:GLU:HG3	1.76	0.85
3:N:245:LEU:HD22	3:N:246:PRO:HD2	1.58	0.85
3:N:179:VAL:HG11	3:N:217:LYS:NZ	1.91	0.85
3:N:187:LYS:HE2	3:N:213:VAL:H	1.41	0.85
3:D:1045:MET:HG3	3:D:1073:SER:HA	1.58	0.84
3:N:423:ASP:HB2	5:P:178:ARG:CB	2.07	0.84
3:N:1120:VAL:HA	3:N:1346:ARG:NH2	1.91	0.84
3:N:1271:LYS:HZ2	3:N:1273:VAL:HA	1.42	0.84
5:P:358:LEU:HD21	5:P:370:LYS:NZ	1.92	0.84
1:K:99:LEU:HB3	1:K:114:PHE:HD2	1.42	0.84
3:N:732:VAL:HB	3:N:736:PHE:HE1	1.42	0.84
2:C:1047:HIS:NE2	3:D:1471:LEU:HD21	1.92	0.84
3:D:1382:THR:O	3:D:1384:PRO:HD3	1.77	0.84
3:N:210:ARG:HD2	3:N:398:ALA:HB3	1.58	0.84
3:D:1481:VAL:HG11	4:E:18:ARG:HA	1.59	0.84
5:F:416:ARG:NH2	5:F:419:ARG:HD3	1.92	0.84
1:L:108:GLU:HG2	1:L:131:THR:HG22	1.56	0.84
2:M:139:GLN:NE2	2:M:414:GLY:HA3	1.92	0.84
2:M:554:ASP:OD2	2:M:556:ASN:HB2	1.76	0.84
3:N:1271:LYS:NZ	3:N:1273:VAL:HA	1.92	0.84
3:D:1314:LYS:NZ	3:D:1317:ASP:HB2	1.92	0.84
5:P:367:MET:HA	5:P:370:LYS:HD3	1.60	0.84
2:M:194:VAL:HA	2:M:197:LEU:HD12	1.60	0.84
3:D:191:LEU:HD12	3:D:211:VAL:HG21	1.60	0.84
2:M:288:ARG:HA	2:M:288:ARG:HE	1.42	0.84
2:C:1115:LEU:HB3	3:D:85:VAL:HG12	1.57	0.84
3:N:1161:GLU:OE2	3:N:1164:ARG:HD2	1.78	0.84
3:N:1440:PHE:HB3	3:N:1442:ASN:OD1	1.78	0.84
5:F:151:LEU:HD13	5:F:154:LYS:HB3	1.59	0.84
2:M:941:VAL:HA	2:M:944:LEU:HD12	1.60	0.84
3:N:550:ARG:HH12	3:N:577:ALA:HB2	1.40	0.84
5:P:94:LEU:HG	5:P:97:GLU:HB2	1.59	0.84
2:C:439:CYS:HB2	2:C:541:SER:HB3	1.61	0.83
2:C:1115:LEU:H	2:C:1115:LEU:HD12	1.42	0.83
3:D:1223:ILE:HD12	3:D:1223:ILE:N	1.92	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:E:9:LEU:HB3	4:E:19:LEU:HD21	1.60	0.83
5:F:141:VAL:O	5:F:145:PRO:HG2	1.78	0.83
2:M:376:ARG:HB3	2:M:377:PRO:HD3	1.57	0.83
4:O:54:LEU:CG	4:O:58:PRO:HG2	2.08	0.83
2:C:49:ARG:NH1	2:C:49:ARG:HB2	1.93	0.83
3:D:1130:ARG:NH2	3:D:1132:LEU:HG	1.92	0.83
2:M:516:ARG:HH11	2:M:521:PRO:HB3	1.43	0.83
2:M:886:LEU:HD12	3:N:951:ILE:HG13	1.58	0.83
3:N:908:LYS:HB3	3:N:1027:GLY:HA3	1.58	0.83
2:C:762:LYS:HA	2:C:786:LYS:HD2	1.57	0.83
3:D:609:GLY:HA2	3:D:613:ARG:HB3	1.58	0.83
3:N:1047:LYS:HD2	3:N:1051:GLU:HG3	1.58	0.83
2:C:857:ASP:HB2	2:C:978:ARG:CG	2.08	0.83
3:D:984:THR:HG22	3:D:987:GLU:CG	2.08	0.83
2:C:395:LYS:HE3	2:C:407:LYS:HZ2	1.42	0.83
3:D:98:PRO:HG2	3:D:462:GLN:HE22	1.41	0.83
3:D:675:ARG:O	3:D:678:GLU:HG2	1.78	0.83
3:D:715:ALA:O	3:D:764:LEU:HD12	1.79	0.83
3:N:1283:ILE:HG22	3:N:1284:GLU:H	1.42	0.83
2:C:919:ALA:HB2	2:C:968:LEU:HD21	1.59	0.83
3:D:996:TRP:CE2	3:D:1056:PRO:HG2	2.13	0.83
1:K:27:PRO:HG2	1:K:186:LEU:HD22	1.61	0.83
3:N:60:CYS:SG	3:N:62:LYS:N	2.51	0.83
3:N:564:GLU:HG2	3:N:565:ILE:HD12	1.60	0.83
3:N:895:VAL:HG13	3:N:921:ARG:NH1	1.93	0.83
5:F:94:LEU:CD1	5:F:96:LEU:H	1.92	0.83
3:N:704:ARG:HG3	3:N:736:PHE:HB2	1.60	0.83
3:N:948:THR:O	3:N:949:ILE:HG13	1.79	0.83
4:O:40:LEU:HD21	4:O:67:GLU:HG2	1.61	0.83
2:C:1101:THR:O	2:C:1102:LEU:HD12	1.77	0.82
3:D:1152:GLU:N	3:D:1162:GLU:HB2	1.92	0.82
3:D:1310:ARG:HG3	3:D:1327:ARG:HB3	1.58	0.82
5:F:158:GLU:HA	5:F:161:GLN:NE2	1.94	0.82
5:P:134:LYS:O	5:P:135:ILE:HG12	1.78	0.82
1:K:228:PRO:HG3	1:L:11:PHE:HE2	1.42	0.82
3:N:1393:GLN:HB2	3:N:1398:TRP:NE1	1.93	0.82
5:P:214:GLN:HA	5:P:217:ASN:HD22	1.43	0.82
1:A:50:GLY:HA3	1:A:171:PHE:O	1.79	0.82
3:D:969:ARG:HB3	3:D:969:ARG:NH1	1.95	0.82
2:M:44:ILE:HG23	2:M:344:PHE:HE1	1.42	0.82
2:M:497:ALA:O	2:M:532:MET:HG3	1.79	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:516:ARG:NH1	3:N:1068:LEU:HD22	1.94	0.82
1:A:206:THR:HG22	1:A:209:GLU:H	1.44	0.82
2:C:1096:ALA:CB	3:D:514:LEU:HD21	2.10	0.82
3:D:1107:VAL:HG12	3:D:1217:ILE:HA	1.59	0.82
5:F:416:ARG:HH22	5:F:419:ARG:HD3	1.44	0.82
2:M:1014:SER:HB3	2:M:1017:THR:O	1.78	0.82
2:C:263:ASP:HB2	2:C:264:PRO:CD	2.08	0.82
2:C:950:LEU:HB3	2:C:952:LEU:HD23	1.62	0.82
3:N:1116:ASN:H	3:N:1116:ASN:HD22	1.27	0.82
5:P:399:GLN:O	5:P:403:LYS:HB2	1.79	0.82
3:D:374:GLU:HG2	3:D:386:HIS:HA	1.59	0.82
2:M:260:LEU:HB2	2:M:291:ALA:HB1	1.60	0.82
3:N:1176:LYS:O	3:N:1179:GLU:HB2	1.79	0.82
3:N:1342:GLU:H	3:N:1342:GLU:CD	1.81	0.82
5:P:316:SER:OG	5:P:318:GLU:HG3	1.79	0.82
2:C:896:PHE:CD2	2:C:925:TYR:HB2	2.15	0.82
3:D:1476:THR:HG23	4:E:21:VAL:HG22	1.62	0.82
3:D:426:LYS:HB3	5:F:134:LYS:O	1.79	0.82
3:D:1342:GLU:CD	3:D:1342:GLU:H	1.83	0.82
2:M:332:ARG:NH2	2:M:464:LEU:HD11	1.94	0.82
2:M:597:ALA:O	2:M:652:GLY:HA2	1.79	0.82
3:N:134:VAL:HG12	3:N:152:LEU:HB3	1.61	0.82
3:N:639:LEU:O	3:N:639:LEU:HD23	1.79	0.82
1:B:153:ALA:HB1	1:B:166:PRO:HB2	1.60	0.82
5:F:205:ARG:HD2	5:F:251:ILE:HD13	1.62	0.82
1:K:201:THR:HG22	1:K:203:GLY:H	1.44	0.82
3:N:806:PHE:CE1	3:N:813:LEU:HB3	2.15	0.82
3:N:1120:VAL:HA	3:N:1346:ARG:HH22	1.44	0.82
1:B:40:LEU:O	1:B:44:LEU:HD12	1.78	0.81
3:D:1462:LEU:HD22	3:D:1472:ILE:HG23	1.61	0.81
1:K:79:ILE:HD12	1:K:167:VAL:HG12	1.61	0.81
3:D:989:TYR:CZ	3:D:993:LEU:HD11	2.15	0.81
4:E:54:LEU:HG	4:E:58:PRO:CG	2.09	0.81
1:L:132:LEU:HD21	1:L:138:LEU:HB2	1.60	0.81
1:A:90:LEU:HG	1:A:119:ASP:O	1.80	0.81
2:C:129:ILE:HG22	2:C:130:ASN:ND2	1.96	0.81
2:C:607:ASP:O	2:C:609:ASN:N	2.13	0.81
1:K:224:TYR:CD1	1:L:9:PRO:HD2	2.14	0.81
2:M:428:ARG:HH21	2:M:449:ILE:HG22	1.44	0.81
2:M:838:LYS:HD3	2:M:846:LYS:HZ3	1.45	0.81
2:M:950:LEU:HD12	2:M:952:LEU:CD2	2.10	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:875:THR:HG22	3:N:879:ARG:HG3	1.62	0.81
3:N:1116:ASN:ND2	3:N:1116:ASN:H	1.74	0.81
2:C:653:ASP:OD1	2:C:654:LEU:HD23	1.81	0.81
3:D:728:LEU:HD22	3:D:745:MET:CE	2.10	0.81
3:N:971:LEU:O	3:N:975:GLU:HG2	1.80	0.81
2:C:349:ALA:O	2:C:353:ARG:HG3	1.80	0.81
2:C:950:LEU:HB3	2:C:952:LEU:CD2	2.10	0.81
3:D:159:ARG:NH1	3:D:159:ARG:HB2	1.94	0.81
3:D:1137:ARG:O	3:D:1141:GLU:HG3	1.81	0.81
2:M:432:ARG:NH2	3:N:1047:LYS:HD3	1.96	0.81
5:F:133:ALA:HA	5:F:136:LEU:HD12	1.61	0.81
3:N:74:GLU:HB3	3:N:75:ARG:HH21	1.46	0.81
3:N:1428:ALA:O	3:N:1431:THR:HG23	1.81	0.81
1:A:102:LYS:HG3	1:A:139:ASN:HB2	1.63	0.81
5:F:209:PHE:CE2	5:F:213:ILE:HD11	2.16	0.81
2:M:760:SER:O	2:M:785:VAL:HG13	1.81	0.81
3:D:642:CYS:HB3	3:D:716:PHE:HB2	1.61	0.81
5:F:207:LEU:HB2	5:F:212:LEU:HD21	1.63	0.81
5:F:287:THR:HG23	5:F:289:GLU:HB2	1.63	0.81
2:M:1047:HIS:O	2:M:1050:GLN:HB3	1.80	0.81
3:N:486:ARG:HH21	3:N:489:ARG:NE	1.78	0.81
3:N:845:ASN:CB	3:N:848:GLU:HG3	2.11	0.81
3:N:1147:ARG:HB3	3:N:1188:VAL:CG2	2.10	0.81
2:C:516:ARG:NH1	2:C:521:PRO:HB3	1.96	0.80
2:C:604:ALA:HB3	2:C:612:VAL:HB	1.63	0.80
3:D:1107:VAL:CG1	3:D:1217:ILE:HA	2.10	0.80
2:M:1097:LEU:H	2:M:1097:LEU:HD12	1.45	0.80
3:N:646:LYS:HE2	3:N:722:GLU:OE2	1.82	0.80
3:N:984:THR:HG23	3:N:987:GLU:H	1.47	0.80
2:C:435:TYR:CE1	2:C:539:VAL:HG22	2.16	0.80
3:D:705:ALA:HB3	3:D:706:PRO:HD3	1.60	0.80
3:N:1262:LEU:HD21	3:N:1351:GLU:HB3	1.62	0.80
1:K:33:GLY:HA2	1:K:195:LEU:HB2	1.62	0.80
2:M:17:PRO:HB2	2:M:20:GLU:HB2	1.63	0.80
2:M:154:ARG:O	2:M:154:ARG:HD3	1.81	0.80
3:N:29:PRO:HG2	3:N:549:ASN:ND2	1.96	0.80
5:P:132:ARG:HH21	5:P:184:ARG:HH12	1.29	0.80
1:B:86:VAL:H	1:B:124:ASN:HD22	0.86	0.80
3:D:770:LEU:HA	3:D:777:PRO:HA	1.64	0.80
1:K:86:VAL:N	1:K:124:ASN:HD22	1.80	0.80
2:M:537:LYS:HA	2:M:905:ILE:HD11	1.63	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:845:ASN:HB2	3:N:848:GLU:HG3	1.64	0.80
2:C:31:GLN:HE22	2:C:40:GLU:HB2	1.46	0.80
2:C:263:ASP:CB	2:C:264:PRO:HD3	2.12	0.80
2:C:863:ASP:O	2:C:865:THR:N	2.14	0.80
2:C:916:GLU:OE1	2:C:917:LEU:HD23	1.81	0.80
2:M:15:LEU:HB2	2:M:586:ARG:HH12	1.45	0.80
3:N:563:PRO:HG3	5:P:185:GLN:OE1	1.81	0.80
3:N:1320:GLU:H	3:N:1323:GLN:NE2	1.80	0.80
1:A:86:VAL:HG12	1:A:124:ASN:HD22	1.47	0.80
3:D:616:GLN:HA	3:D:619:LEU:HB3	1.63	0.80
3:N:399:ARG:HB3	3:N:402:PRO:HG3	1.62	0.80
1:K:226:SER:O	1:K:228:PRO:HD3	1.80	0.80
2:M:876:VAL:HB	2:M:877:PRO:HD3	1.63	0.80
3:N:1065:LEU:HD23	3:N:1070:TYR:CD2	2.16	0.80
3:N:1462:LEU:HD22	3:N:1472:ILE:HD12	1.64	0.80
1:K:195:LEU:HD12	1:K:196:THR:H	1.45	0.80
2:M:285:LEU:HD11	2:M:302:VAL:HG22	1.62	0.80
2:M:966:LEU:HD11	2:M:986:PRO:HG2	1.63	0.80
3:D:1086:LEU:HD22	6:D:1525:STD:H113	1.62	0.79
4:E:43:GLU:O	4:E:45:ARG:HG2	1.83	0.79
2:M:650:ARG:HD3	2:M:650:ARG:N	1.96	0.79
3:D:1151:ARG:HA	3:D:1162:GLU:HG3	1.61	0.79
1:L:111:ALA:HB2	1:L:127:LEU:HB3	1.62	0.79
2:M:650:ARG:H	2:M:650:ARG:CD	1.93	0.79
3:N:249:TYR:C	3:N:250:LEU:HD12	2.02	0.79
3:N:465:LEU:HD12	3:N:513:ILE:HD11	1.62	0.79
5:P:132:ARG:HH21	5:P:184:ARG:NH1	1.81	0.79
1:B:19:GLU:HG3	1:B:201:THR:O	1.81	0.79
2:C:1111:ILE:HG13	2:C:1112:PHE:H	1.46	0.79
3:D:826:PRO:HD2	3:D:829:VAL:HG13	1.65	0.79
3:N:97:THR:HG21	3:N:571:LYS:HD3	1.65	0.79
1:B:100:LEU:HD12	1:B:115:LEU:HD21	1.64	0.79
2:C:964:LYS:HG2	2:C:968:LEU:HD11	1.64	0.79
3:N:162:ARG:HG3	3:N:434:ARG:NE	1.97	0.79
2:C:534:VAL:H	2:C:538:GLN:HE22	1.27	0.79
2:M:926:PHE:CE2	2:M:960:GLU:HG3	2.17	0.79
3:N:912:LYS:HB3	3:N:912:LYS:NZ	1.97	0.79
3:N:1124:GLN:HE21	3:N:1133:ARG:HD2	1.47	0.79
2:C:461:VAL:HG13	2:C:465:GLY:HA2	1.65	0.79
3:D:186:VAL:HG13	3:D:187:LYS:N	1.97	0.79
3:N:237:LYS:HB3	3:N:238:PRO:HD3	1.63	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:P:181:GLU:OE2	5:P:184:ARG:HD3	1.81	0.79
5:P:366:ALA:O	5:P:370:LYS:HB3	1.83	0.79
5:P:405:LEU:HD23	5:P:405:LEU:O	1.82	0.79
3:D:699:VAL:H	3:D:756:GLN:HE22	1.30	0.79
1:K:195:LEU:HD12	1:K:196:THR:N	1.98	0.79
2:M:548:PRO:HG2	2:M:842:ARG:NH2	1.98	0.79
2:M:580:MET:HB3	2:M:584:GLU:CD	2.03	0.79
3:N:399:ARG:CB	3:N:402:PRO:HG3	2.13	0.79
5:P:416:ARG:HG2	5:P:419:ARG:HG3	1.63	0.79
1:A:44:LEU:HD13	1:A:177:VAL:HG11	1.65	0.79
1:B:27:PRO:HG2	1:B:186:LEU:HD12	1.64	0.79
3:D:377:VAL:HG13	3:D:382:GLU:HG2	1.63	0.79
2:C:15:LEU:HD22	2:C:583:LEU:HD21	1.65	0.79
2:C:589:ARG:HD3	2:C:596:TYR:CZ	2.18	0.79
3:D:1253:THR:HG22	3:D:1258:ARG:HB2	1.64	0.79
3:D:1433:SER:HB2	3:D:1457:ASP:CG	2.03	0.79
4:E:54:LEU:HD23	4:E:54:LEU:O	1.81	0.79
5:F:287:THR:HG22	5:F:290:GLU:OE1	1.82	0.79
1:L:175:ARG:HB2	1:L:200:TRP:HB3	1.63	0.79
3:N:558:LEU:HD22	5:P:145:PRO:HB3	1.62	0.79
3:N:1045:MET:HG2	3:N:1073:SER:HA	1.64	0.79
3:D:96:ALA:HB3	3:D:554:LEU:HG	1.66	0.78
3:D:141:ILE:HD12	3:D:141:ILE:N	1.95	0.78
2:M:21:ILE:H	2:M:21:ILE:HD12	1.48	0.78
2:M:845:ASN:HD22	2:M:884:GLN:HE22	1.31	0.78
3:N:659:LYS:O	3:N:663:GLU:HG3	1.83	0.78
3:D:396:VAL:HG21	3:D:447:VAL:HG12	1.64	0.78
4:E:46:PRO:HB3	4:E:54:LEU:HD22	1.65	0.78
2:M:230:ARG:HB2	2:M:233:GLU:HB3	1.63	0.78
3:N:785:ILE:HD12	3:N:785:ILE:N	1.98	0.78
2:C:1109:VAL:HG11	3:D:5:VAL:HG22	1.63	0.78
3:N:798:GLU:OE1	3:N:828:LYS:HE2	1.84	0.78
4:E:10:PHE:CE2	4:E:16:LYS:HG3	2.18	0.78
3:N:191:LEU:HB3	3:N:195:VAL:HG21	1.64	0.78
3:N:677:LEU:HD21	3:N:687:VAL:HG11	1.65	0.78
5:P:163:LEU:HD13	5:P:174:LEU:HD21	1.65	0.78
1:A:9:PRO:HD2	1:B:224:TYR:CD1	2.19	0.78
2:C:1032:PHE:HZ	2:C:1040:LEU:HD22	1.48	0.78
3:D:1046:GLN:NE2	3:D:1052:THR:HG22	1.99	0.78
3:D:813:LEU:O	3:D:817:GLU:HG3	1.82	0.78
3:N:617:ASN:O	3:N:618:LEU:HD23	1.83	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1116:ASN:HD22	3:N:1116:ASN:N	1.79	0.78
2:C:195:LEU:HG	2:C:238:LEU:HD12	1.66	0.78
5:P:394:ARG:H	5:P:394:ARG:HD2	1.47	0.78
3:D:212:ARG:CD	3:D:445:ARG:HH22	1.96	0.78
3:D:218:LYS:NZ	3:D:370:ALA:HA	1.99	0.78
6:M:1120:STD:H243	3:N:1090:ASP:OD1	1.84	0.78
3:D:728:LEU:HD22	3:D:745:MET:HE1	1.63	0.78
5:F:94:LEU:HD13	5:F:96:LEU:H	1.47	0.78
2:M:197:LEU:HA	2:M:200:LEU:HD12	1.66	0.78
2:M:721:ARG:HE	2:M:783:ARG:NH2	1.82	0.78
5:P:132:ARG:O	5:P:136:LEU:HG	1.84	0.78
2:M:605:LYS:HD3	2:M:610:ARG:HH22	1.49	0.78
2:C:841:ASN:HD21	2:C:845:ASN:H	1.29	0.77
3:D:108:VAL:HB	3:D:109:PRO:CD	2.12	0.77
3:D:139:GLY:O	3:D:147:VAL:HG22	1.83	0.77
3:N:216:VAL:HG11	3:N:221:ALA:HA	1.66	0.77
3:D:28:LYS:HD3	3:D:41:ARG:HD2	1.65	0.77
5:F:358:LEU:HD11	5:F:370:LYS:CE	2.14	0.77
1:K:150:TYR:CE2	1:K:152:PRO:HG3	2.17	0.77
2:M:470:PRO:HB2	2:M:534:VAL:CG2	2.13	0.77
2:C:91:GLN:NE2	2:C:117:HIS:HB2	1.99	0.77
2:C:326:ASP:HA	2:C:331:ARG:HD2	1.63	0.77
2:C:742:VAL:HG12	2:C:743:VAL:H	1.49	0.77
3:D:972:LEU:HD23	3:D:973:GLN:N	1.99	0.77
3:N:231:VAL:HB	3:N:378:ILE:HG23	1.67	0.77
3:N:374:GLU:HG2	3:N:386:HIS:HA	1.66	0.77
2:C:22:GLN:NE2	2:C:336:VAL:HG21	1.98	0.77
3:D:653:PHE:CE1	3:D:695:ILE:HD11	2.20	0.77
1:K:12:THR:HG23	1:K:24:VAL:HB	1.67	0.77
1:K:58:ILE:HD13	1:K:140:MET:HB2	1.66	0.77
1:K:42:ARG:NH1	2:M:857:ASP:HB3	2.00	0.77
1:K:103:ALA:O	1:K:104:GLU:HG3	1.85	0.77
1:L:5:LYS:HA	1:L:5:LYS:HE3	1.66	0.77
3:N:1175:ILE:O	3:N:1179:GLU:HG3	1.83	0.77
2:M:1083:GLU:O	2:M:1087:VAL:HG23	1.84	0.77
1:A:90:LEU:HB2	1:A:119:ASP:HB3	1.67	0.77
3:D:808:THR:HB	3:D:809:PRO:HD3	1.65	0.77
3:D:820:GLU:HG3	3:D:836:VAL:HG21	1.66	0.77
3:N:12:LEU:HD21	3:N:104:PHE:CE1	2.18	0.77
3:N:558:LEU:HD13	5:P:145:PRO:CA	2.14	0.77
3:N:1381:VAL:HG23	3:N:1391:GLU:HB2	1.64	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:84:TYR:CE1	5:F:192:LEU:HD22	2.20	0.77
2:M:444:PRO:HB2	2:M:448:ASN:O	1.84	0.77
2:C:585:GLU:O	2:C:588:VAL:HG22	1.85	0.77
2:C:588:VAL:HG21	2:C:664:GLY:O	1.85	0.77
3:N:1450:ALA:HA	3:N:1455:LYS:HG3	1.65	0.77
2:C:116:GLY:HA2	2:C:379:GLU:OE1	1.85	0.77
3:D:55:ASP:HA	3:D:82:LYS:HG2	1.67	0.77
3:D:218:LYS:HZ3	3:D:370:ALA:CA	1.98	0.77
3:D:539:ASP:HB3	3:D:600:LEU:HD22	1.67	0.77
3:D:1009:LYS:HE3	3:D:1013:GLU:OE1	1.84	0.77
3:N:804:LEU:HD12	3:N:804:LEU:O	1.85	0.77
3:N:1114:THR:HG22	3:N:1116:ASN:HD21	1.50	0.77
3:N:1189:ARG:NH2	3:N:1203:LYS:HB2	1.99	0.77
3:D:149:LYS:HD3	3:D:149:LYS:N	1.99	0.76
3:D:785:ILE:CD1	3:D:935:LYS:HA	2.14	0.76
2:M:691:SER:CB	2:M:858:MET:SD	2.73	0.76
3:D:570:GLU:HB2	5:F:214:GLN:HE21	1.49	0.76
3:D:1086:LEU:HB2	6:D:1525:STD:H312	1.67	0.76
3:D:1192:LEU:HD22	3:D:1345:GLU:OE2	1.85	0.76
3:N:1109:GLU:CG	3:N:1202:GLN:H	1.95	0.76
3:D:1047:LYS:HG2	3:D:1053:PHE:CE1	2.21	0.76
1:L:36:LEU:O	1:L:39:PRO:HD2	1.85	0.76
5:P:352:GLU:O	5:P:356:LYS:HG3	1.86	0.76
2:C:1071:ILE:CD1	3:D:655:PRO:HB3	2.16	0.76
3:D:914:LEU:HD23	3:D:914:LEU:O	1.85	0.76
3:D:1042:ARG:O	3:D:1057:VAL:HB	1.86	0.76
3:D:1472:ILE:HG22	3:D:1474:ALA:H	1.50	0.76
1:K:109:VAL:HG23	1:K:132:LEU:HD13	1.66	0.76
1:L:132:LEU:CD2	1:L:138:LEU:HB2	2.14	0.76
3:N:52:PRO:HG3	3:N:80:VAL:HA	1.66	0.76
3:N:108:VAL:HB	3:N:109:PRO:HD3	1.67	0.76
3:N:554:LEU:HD22	3:N:570:GLU:HG2	1.66	0.76
3:N:833:GLU:OE1	3:N:834:THR:HG23	1.85	0.76
3:N:1258:ARG:NH2	3:N:1351:GLU:HG2	1.97	0.76
1:A:42:ARG:HH12	2:C:857:ASP:CB	1.96	0.76
2:C:897:LEU:HD11	2:C:920:GLN:HG2	1.68	0.76
1:K:228:PRO:HG3	1:L:11:PHE:CE2	2.20	0.76
3:N:858:VAL:HG12	3:N:859:ASP:H	1.49	0.76
3:N:957:PRO:HG2	3:N:1007:VAL:HG12	1.68	0.76
5:P:109:GLY:O	5:P:112:ALA:HB3	1.85	0.76
2:C:292:ARG:NH1	2:C:299:LYS:HD3	1.99	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:77:GLY:O	3:D:78:VAL:HG23	1.86	0.76
3:D:857:ILE:HG22	3:D:858:VAL:HG22	1.68	0.76
1:K:59:GLU:HG3	1:K:60:ASP:H	1.50	0.76
2:M:679:PHE:O	2:M:681:GLY:N	2.19	0.76
2:C:1057:SER:HB2	3:D:622:ARG:O	1.85	0.76
3:D:93:ILE:HD13	3:D:548:ILE:HD11	1.68	0.76
3:N:1388:ARG:HG3	3:N:1389:LEU:HD23	1.68	0.76
2:C:952:LEU:HD12	2:C:969:GLN:HE22	1.50	0.76
3:D:18:ILE:HG23	3:D:518:PRO:HG3	1.67	0.76
3:D:493:ARG:NH2	3:D:1389:LEU:HD21	1.97	0.76
5:F:82:ARG:HG2	5:F:86:HIS:CD2	2.21	0.76
5:F:313:GLU:OE2	5:F:314:PRO:HD2	1.85	0.76
3:D:119:SER:CB	3:D:123:LEU:HB2	2.16	0.76
3:D:192:ALA:O	3:D:195:VAL:HG23	1.85	0.76
2:M:945:ARG:O	2:M:949:LYS:HG3	1.86	0.76
2:M:1031:ARG:HD2	3:N:619:LEU:O	1.86	0.76
1:B:58:ILE:HG22	1:B:59:GLU:HG2	1.67	0.76
2:C:1016:ILE:HD13	2:C:1016:ILE:N	1.95	0.76
1:K:11:PHE:CE2	1:L:228:PRO:HG3	2.20	0.76
2:M:605:LYS:HD3	2:M:610:ARG:NH2	2.00	0.76
2:C:192:PRO:HB2	2:C:195:LEU:HB2	1.66	0.75
2:C:496:ILE:O	2:C:515:ALA:HB1	1.85	0.75
3:D:1277:ILE:HG22	3:D:1278:ASP:N	1.98	0.75
2:M:176:VAL:O	2:M:178:PRO:HD3	1.85	0.75
2:M:770:GLU:HG2	3:N:65:ARG:HH22	1.51	0.75
3:N:137:PRO:HD2	3:N:453:ASP:HB3	1.67	0.75
1:A:206:THR:HB	1:A:209:GLU:CG	2.14	0.75
2:C:471:TYR:CE2	2:C:496:ILE:HG21	2.20	0.75
3:D:629:SER:HB3	3:D:726:ILE:HD11	1.68	0.75
3:D:984:THR:HG23	3:D:987:GLU:H	1.50	0.75
3:D:1495:ILE:HG23	3:D:1499:ARG:HH21	1.51	0.75
3:N:1379:VAL:HB	3:N:1417:TRP:HB2	1.67	0.75
2:C:64:LEU:HD11	2:C:100:LEU:HB2	1.69	0.75
3:D:162:ARG:HG3	3:D:163:TYR:N	1.96	0.75
3:D:1372:VAL:HG22	3:D:1375:MET:CE	2.17	0.75
1:L:20:TYR:O	1:L:207:PRO:HG2	1.87	0.75
4:O:26:ARG:O	4:O:30:LEU:HB2	1.86	0.75
1:B:151:VAL:N	1:B:169:ALA:HB3	2.01	0.75
3:D:1191:PRO:HA	3:D:1194:CYS:SG	2.26	0.75
5:F:261:PRO:O	5:F:265:VAL:HG23	1.87	0.75
2:C:944:LEU:HD21	2:C:963:LEU:CD2	2.17	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1067:TYR:CB	5:F:341:PRO:HB3	2.17	0.75
2:C:1095:LEU:HD21	3:D:582:LEU:O	1.86	0.75
2:M:79:PRO:HG2	2:M:82:GLU:HB2	1.69	0.75
3:N:1335:LEU:HD23	3:N:1335:LEU:O	1.87	0.75
1:A:195:LEU:HD11	1:A:197:LEU:HD22	1.69	0.75
3:N:940:THR:O	3:N:943:THR:HG23	1.85	0.75
5:P:354:LEU:HD23	5:P:418:LEU:HD21	1.69	0.75
2:M:352:ALA:HA	2:M:355:VAL:CG1	2.16	0.75
2:M:578:VAL:H	2:M:671:ASN:ND2	1.84	0.75
2:M:597:ALA:HB3	2:M:653:ASP:H	1.51	0.75
2:M:1007:ALA:HB2	3:N:648:MET:HG2	1.69	0.75
3:N:601:ARG:HD3	3:N:613:ARG:HH21	1.52	0.75
5:P:135:ILE:HD11	5:P:178:ARG:CB	2.17	0.75
1:K:205:VAL:HG23	1:K:206:THR:N	2.00	0.75
3:N:177:ALA:C	3:N:199:LEU:HD13	2.07	0.75
3:N:1220:ALA:O	3:N:1222:GLY:N	2.19	0.75
5:P:163:LEU:HB3	5:P:174:LEU:HG	1.68	0.75
1:B:58:ILE:HG22	1:B:59:GLU:H	1.50	0.75
2:C:443:THR:HG23	2:C:444:PRO:HD2	1.69	0.75
1:L:86:VAL:HG12	1:L:124:ASN:HD22	1.52	0.75
3:N:185:VAL:HA	3:N:189:GLN:HG3	1.67	0.75
3:N:475:LYS:HA	3:N:478:LEU:HD12	1.68	0.75
3:N:1176:LYS:HA	3:N:1179:GLU:OE1	1.87	0.75
3:D:1120:VAL:HG11	3:D:1144:LEU:HG	1.67	0.74
3:D:1330:ILE:HG21	3:D:1335:LEU:HD12	1.66	0.74
2:M:165:LEU:HD12	2:M:166:PRO:HA	1.68	0.74
2:M:516:ARG:CZ	3:N:1068:LEU:HD22	2.17	0.74
1:A:87:VAL:HG21	1:A:144:VAL:HG11	1.69	0.74
1:B:36:LEU:O	1:B:39:PRO:HD2	1.86	0.74
2:C:1102:LEU:HD13	3:D:9:ARG:HB3	1.69	0.74
3:D:31:THR:HG23	3:D:45:PHE:HE2	1.50	0.74
3:D:205:TYR:CB	3:D:393:ILE:HD13	2.13	0.74
1:L:12:THR:HG23	1:L:24:VAL:HB	1.67	0.74
2:M:910:LYS:HB2	2:M:913:GLU:HG3	1.69	0.74
3:N:177:ALA:HB1	3:N:199:LEU:HD22	1.69	0.74
3:N:895:VAL:HG13	3:N:921:ARG:HH11	1.50	0.74
3:N:196:VAL:HG22	3:N:204:LEU:HD23	1.70	0.74
3:N:654:LYS:HB3	3:N:655:PRO:CD	2.18	0.74
3:N:956:ILE:HG12	3:N:1039:CYS:O	1.88	0.74
1:A:227:ASN:O	1:B:11:PHE:HB3	1.87	0.74
3:D:817:GLU:O	3:D:821:VAL:HG23	1.87	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:1082:PRO:HG2	3:N:1469:GLY:HA3	1.69	0.74
2:C:397:GLU:HG2	2:C:633:GLN:NE2	2.01	0.74
2:C:602:GLU:HB3	2:C:614:ARG:HB3	1.70	0.74
3:D:1489:GLN:O	3:D:1493:LYS:HG2	1.86	0.74
3:N:736:PHE:CD1	3:N:736:PHE:N	2.54	0.74
3:N:1121:PRO:HD3	3:N:1346:ARG:NH2	2.01	0.74
1:A:43:ILE:CD1	1:B:35:THR:HG21	2.17	0.74
2:C:689:VAL:HG23	2:C:870:ILE:HB	1.69	0.74
3:D:1046:GLN:HB3	3:D:1052:THR:HA	1.69	0.74
3:D:1432:LYS:HD2	3:D:1433:SER:N	2.02	0.74
2:M:415:PRO:CB	2:M:418:LEU:HD23	2.16	0.74
2:M:456:ALA:HB3	2:M:459:ALA:HB2	1.68	0.74
2:C:863:ASP:O	2:C:865:THR:HG22	1.88	0.74
2:C:1074:GLU:HG2	2:C:1075:ASP:N	2.02	0.74
3:D:119:SER:H	3:D:123:LEU:HB2	1.51	0.74
5:F:120:THR:HG22	5:F:122:LEU:HD13	1.69	0.74
2:M:281:LEU:HD12	2:M:305:PRO:HB2	1.68	0.74
3:N:1046:GLN:HG3	3:N:1046:GLN:O	1.88	0.74
2:C:534:VAL:N	2:C:538:GLN:HE22	1.86	0.74
2:M:676:ILE:CG2	2:M:988:VAL:HG13	2.18	0.74
3:N:141:ILE:HG22	3:N:142:LEU:N	2.02	0.74
3:D:96:ALA:CB	3:D:554:LEU:HG	2.16	0.74
2:M:709:GLU:O	2:M:790:LEU:HD22	1.88	0.74
3:N:59:ALA:HB3	3:N:78:VAL:HG21	1.70	0.74
3:N:625:TYR:HB3	3:N:749:VAL:CG2	2.17	0.74
3:N:676:MET:HE1	3:N:684:LYS:H	1.52	0.74
2:C:775:ARG:NH1	2:C:782:ALA:HB1	2.02	0.74
3:D:367:ILE:HD13	3:D:368:VAL:H	1.53	0.74
2:M:328:LEU:HB2	2:M:433:THR:HB	1.70	0.74
2:M:674:VAL:HG12	2:M:990:GLY:O	1.88	0.74
3:N:387:LEU:CD2	5:P:97:GLU:HG2	2.18	0.74
3:N:1104:GLU:O	3:N:1106:VAL:HG23	1.87	0.74
2:C:602:GLU:CG	2:C:603:VAL:H	2.01	0.73
5:P:226:LYS:HG3	5:P:242:TRP:CH2	2.23	0.73
2:C:690:ILE:HB	2:C:852:ILE:CD1	2.18	0.73
2:C:304:LEU:HB3	2:C:305:PRO:HD3	1.68	0.73
2:C:588:VAL:HG23	2:C:589:ARG:N	2.03	0.73
3:D:172:PRO:HB3	3:D:178:LEU:HD12	1.71	0.73
3:D:828:LYS:HD3	3:D:828:LYS:N	2.04	0.73
3:N:368:VAL:HG22	3:N:369:ALA:N	2.02	0.73
3:N:565:ILE:HD12	3:N:565:ILE:H	1.53	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:P:367:MET:HG3	5:P:370:LYS:HE2	1.69	0.73
2:C:1087:VAL:O	2:C:1091:GLU:HB2	1.87	0.73
3:D:493:ARG:HE	3:D:1389:LEU:HG	1.54	0.73
5:F:392:VAL:HG11	5:F:396:ARG:CD	2.17	0.73
1:K:13:VAL:HG12	1:K:14:ARG:N	2.03	0.73
2:M:573:ARG:HH21	2:M:697:ARG:HB3	1.53	0.73
3:N:1115:THR:CG2	3:N:1151:ARG:HH21	2.01	0.73
2:C:30:LEU:HD12	2:C:30:LEU:O	1.88	0.73
2:C:568:ALA:CB	2:C:668:LEU:HD22	2.18	0.73
3:D:87:ARG:HB3	3:D:523:ASP:HB2	1.70	0.73
3:D:133:ILE:HG21	3:D:454:ALA:HB1	1.71	0.73
3:D:583:ASP:OD2	3:D:604:THR:HB	1.88	0.73
2:C:127:PHE:CD1	2:C:386:PHE:HE2	2.07	0.73
2:C:810:ASP:HB3	2:C:813:VAL:HG22	1.69	0.73
2:C:906:PHE:HD1	3:D:1067:VAL:HG22	1.48	0.73
3:D:93:ILE:HD13	3:D:548:ILE:CD1	2.19	0.73
3:D:375:GLU:O	3:D:385:VAL:HG12	1.88	0.73
2:M:839:LEU:HD12	2:M:839:LEU:O	1.89	0.73
3:N:396:VAL:HG13	3:N:447:VAL:HA	1.69	0.73
3:N:625:TYR:HB3	3:N:749:VAL:HG23	1.70	0.73
1:B:9:PRO:HB3	1:B:25:LEU:HG	1.70	0.73
3:D:72:VAL:HG12	3:D:73:CYS:N	2.03	0.73
3:D:191:LEU:HD22	3:D:195:VAL:HG11	1.70	0.73
3:D:1282:ARG:HD3	3:D:1295:GLU:OE1	1.88	0.73
3:N:1396:GLU:HA	3:N:1399:ASP:OD2	1.88	0.73
2:M:252:LYS:HE2	2:M:296:GLY:HA3	1.71	0.73
2:M:757:GLY:HA2	2:M:789:SER:OG	1.88	0.73
3:N:699:VAL:HB	3:N:716:PHE:O	1.89	0.73
3:N:1121:PRO:HD3	3:N:1346:ARG:HH22	1.54	0.73
2:C:889:HIS:HE1	3:D:951:ILE:N	1.84	0.73
3:D:40:GLU:HG3	3:D:41:ARG:H	1.52	0.73
3:D:217:LYS:NZ	3:D:389:GLU:HB3	2.04	0.73
3:D:223:LEU:N	3:D:365:ASP:HB2	2.02	0.73
3:D:245:LEU:HD13	3:D:245:LEU:H	1.52	0.73
3:D:808:THR:CB	3:D:809:PRO:HD3	2.19	0.73
1:K:35:THR:O	1:K:39:PRO:HG2	1.88	0.73
2:M:521:PRO:HG3	3:N:1068:LEU:HD21	1.69	0.73
3:D:851:LEU:O	3:D:854:ALA:HB3	1.89	0.73
4:E:54:LEU:CA	4:E:58:PRO:HG2	2.17	0.73
1:L:59:GLU:HG3	1:L:60:ASP:H	1.52	0.73
1:L:66:SER:O	1:L:75:VAL:HG23	1.88	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:507:ARG:H	2:M:507:ARG:HD2	1.52	0.73
3:N:123:LEU:HD21	3:N:152:LEU:HD22	1.71	0.73
3:N:701:LEU:HD21	3:N:763:MET:CE	2.19	0.73
3:N:1095:THR:O	3:N:1099:VAL:HG23	1.88	0.73
2:M:1043:TYR:CE2	3:N:763:MET:HA	2.24	0.72
5:F:84:TYR:O	5:F:88:ILE:HG13	1.89	0.72
2:M:130:ASN:HD21	2:M:383:ARG:HH21	1.37	0.72
3:N:455:ARG:HH22	5:P:140:ARG:HB2	1.52	0.72
2:C:183:SER:CB	2:C:190:LYS:HD3	2.19	0.72
3:D:571:LYS:HB2	3:D:571:LYS:NZ	2.04	0.72
5:F:270:LYS:HB3	5:F:295:MET:HE1	1.71	0.72
5:F:234:LYS:HD2	5:F:236:SER:N	2.04	0.72
2:C:51:THR:HG21	2:C:348:LEU:HB3	1.72	0.72
2:C:290:LEU:HD23	2:C:290:LEU:H	1.54	0.72
3:D:119:SER:O	3:D:121:THR:N	2.23	0.72
3:D:907:GLU:HG3	3:D:1026:SER:HA	1.71	0.72
3:N:1271:LYS:NZ	3:N:1334:GLN:HE22	1.88	0.72
5:P:130:VAL:HG21	5:P:159:ILE:HG21	1.70	0.72
3:N:455:ARG:HG2	3:N:455:ARG:HH11	1.54	0.72
2:C:256:TYR:HE1	2:C:293:PHE:HB2	1.54	0.72
2:C:343:GLN:HG2	2:C:385:PHE:HB2	1.71	0.72
3:D:625:TYR:O	3:D:749:VAL:HG23	1.89	0.72
3:D:1282:ARG:HA	3:D:1315:ASP:OD1	1.90	0.72
2:M:573:ARG:NH2	2:M:697:ARG:HB3	2.04	0.72
2:M:689:VAL:CG2	2:M:870:ILE:HB	2.20	0.72
3:N:191:LEU:HD12	3:N:211:VAL:HG21	1.72	0.72
1:A:144:VAL:HG12	1:A:145:ASP:N	2.03	0.72
2:C:984:GLU:HG2	3:D:944:THR:O	1.90	0.72
4:E:23:VAL:HG22	4:E:64:ALA:HB3	1.70	0.72
1:K:133:GLU:HG2	1:K:134:GLU:H	1.54	0.72
2:M:569:VAL:HG12	2:M:996:LYS:O	1.90	0.72
3:N:560:GLN:HE21	3:N:560:GLN:HA	1.54	0.72
3:N:1463:LYS:O	3:N:1467:ILE:HG13	1.90	0.72
1:A:184:THR:HG23	1:A:192:LEU:HB2	1.72	0.72
2:C:309:TYR:HA	2:C:312:ALA:HB3	1.71	0.72
2:C:671:ASN:N	2:C:671:ASN:HD22	1.88	0.72
3:D:1104:GLU:HA	3:D:1461:GLY:HA2	1.72	0.72
2:M:226:VAL:HG22	2:M:230:ARG:NH2	2.03	0.72
2:M:1049:LEU:O	2:M:1053:LEU:HD23	1.89	0.72
2:M:1111:ILE:HG13	2:M:1112:PHE:CD1	2.22	0.72
3:N:422:ALA:HA	5:P:178:ARG:HH21	1.54	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:P:276:ARG:HH11	5:P:276:ARG:HG3	1.54	0.72
5:P:358:LEU:HD21	5:P:370:LYS:HZ3	1.50	0.72
2:C:289:THR:HG22	2:C:290:LEU:H	1.53	0.72
2:C:575:GLN:N	2:C:667:ALA:HB1	2.04	0.72
2:C:1088:LEU:O	2:C:1092:LEU:HB2	1.90	0.72
3:D:223:LEU:HA	3:D:365:ASP:OD1	1.89	0.72
3:D:1130:ARG:HH21	3:D:1132:LEU:HG	1.55	0.72
3:N:12:LEU:HD11	3:N:104:PHE:HE1	1.55	0.72
3:N:1003:VAL:O	3:N:1007:VAL:HG13	1.88	0.72
2:C:720:GLU:OE2	2:C:760:SER:HB3	1.90	0.71
3:D:136:ASP:HB3	3:D:137:PRO:HD2	1.71	0.71
3:D:224:ARG:HG2	3:D:225:LEU:N	2.04	0.71
3:D:483:HIS:HB2	3:D:484:PRO:HD3	1.73	0.71
3:D:845:ASN:H	3:D:848:GLU:HG3	1.55	0.71
3:N:13:ALA:HB1	3:N:18:ILE:HD11	1.71	0.71
3:N:536:ALA:HB2	5:P:315:VAL:HG12	1.69	0.71
3:N:1393:GLN:CB	3:N:1398:TRP:HE1	2.01	0.71
3:D:179:VAL:HG13	3:D:389:GLU:HG3	1.72	0.71
4:E:82:GLU:H	4:E:82:GLU:CD	1.91	0.71
1:K:99:LEU:HB3	1:K:114:PHE:CD2	2.25	0.71
2:M:181:VAL:HG12	2:M:182:VAL:H	1.55	0.71
2:M:260:LEU:HG	2:M:261:ILE:N	2.05	0.71
3:N:621:LYS:O	3:N:622:ARG:CG	2.38	0.71
3:N:769:LEU:N	3:N:769:LEU:HD12	2.06	0.71
3:N:858:VAL:HG12	3:N:859:ASP:N	2.05	0.71
3:D:140:ALA:HB3	3:D:141:ILE:HD12	1.72	0.71
3:D:654:LYS:HB3	3:D:655:PRO:CD	2.19	0.71
3:D:1113:GLY:O	3:D:1115:THR:N	2.23	0.71
3:D:1129:THR:HG23	3:D:1130:ARG:N	2.04	0.71
3:D:1486:VAL:O	3:D:1487:VAL:HG13	1.89	0.71
5:F:282:LEU:HD12	5:F:284:ARG:HB2	1.72	0.71
2:M:176:VAL:CG1	2:M:182:VAL:HG13	2.19	0.71
3:N:423:ASP:CB	5:P:178:ARG:HB2	2.18	0.71
3:N:1155:VAL:CG1	3:N:1183:ILE:HD11	2.20	0.71
2:C:188:LYS:C	2:C:188:LYS:HE2	2.10	0.71
2:C:607:ASP:C	2:C:609:ASN:N	2.40	0.71
3:D:12:LEU:HD13	3:D:511:TRP:HB2	1.72	0.71
3:D:1488:ASP:OD2	3:D:1491:THR:HG23	1.91	0.71
1:K:47:SER:HB2	1:K:217:ILE:HD13	1.72	0.71
1:B:226:SER:O	1:B:228:PRO:HD3	1.90	0.71
3:D:1209:LEU:CD2	3:D:1210:SER:H	2.03	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:E:23:VAL:HG21	4:E:65:MET:CG	2.19	0.71
3:N:601:ARG:HD3	3:N:613:ARG:NH2	2.05	0.71
3:N:887:ALA:HB1	3:N:893:GLU:HG2	1.72	0.71
5:P:371:LEU:HD22	5:P:375:LEU:HD22	1.73	0.71
2:C:627:ARG:HG3	2:C:628:PHE:N	2.05	0.71
3:D:493:ARG:HH21	3:D:1389:LEU:CD2	2.00	0.71
4:E:54:LEU:HG	4:E:58:PRO:CB	2.21	0.71
5:F:288:TYR:CE2	5:F:305:GLU:HG3	2.26	0.71
5:F:368:VAL:O	5:F:372:ARG:HB2	1.89	0.71
2:M:397:GLU:OE2	2:M:632:ASN:HB2	1.89	0.71
2:M:574:ALA:O	2:M:575:GLN:HB2	1.89	0.71
2:M:1044:GLY:O	2:M:1046:ALA:N	2.17	0.71
3:N:119:SER:HB2	3:N:123:LEU:N	2.04	0.71
3:N:387:LEU:HD12	5:P:96:LEU:CB	2.21	0.71
3:N:1158:VAL:HG12	3:N:1159:ARG:H	1.54	0.71
2:C:141:HIS:CE1	2:C:332:ARG:HH11	2.09	0.71
3:D:396:VAL:HG13	3:D:446:VAL:C	2.10	0.71
3:D:703:ASN:HD22	3:D:704:ARG:H	1.38	0.71
2:M:670:GLN:HE22	2:M:699:PHE:HA	1.56	0.71
3:N:387:LEU:HG	5:P:97:GLU:HG2	1.71	0.71
3:N:1045:MET:CG	3:N:1073:SER:HA	2.20	0.71
3:D:186:VAL:CG1	3:D:187:LYS:H	2.00	0.71
2:M:21:ILE:HD12	2:M:21:ILE:N	2.05	0.71
2:M:922:PHE:HD2	2:M:964:LYS:HD3	1.56	0.71
3:N:176:ASP:OD1	3:N:219:GLU:HB2	1.90	0.71
3:N:785:ILE:H	3:N:785:ILE:CD1	1.96	0.71
3:N:1065:LEU:CD2	3:N:1070:TYR:HD2	2.02	0.71
2:C:682:TYR:CD1	3:D:635:PRO:HG2	2.26	0.71
3:D:699:VAL:N	3:D:756:GLN:HE22	1.88	0.71
3:D:1130:ARG:HH21	3:D:1132:LEU:H	1.37	0.71
2:M:140:ILE:HA	2:M:332:ARG:O	1.91	0.71
3:N:421:LEU:HG	3:N:422:ALA:O	1.90	0.71
3:N:434:ARG:O	3:N:447:VAL:HG22	1.91	0.71
3:N:562:ALA:O	3:N:567:ILE:HD11	1.91	0.71
3:N:1134:LEU:HD23	3:N:1135:ARG:H	1.55	0.71
1:A:39:PRO:O	1:A:43:ILE:HG12	1.91	0.71
2:C:490:GLU:O	2:C:490:GLU:HG2	1.89	0.71
3:D:524:LEU:C	3:D:526:PRO:HD3	2.11	0.71
3:D:709:HIS:HD2	3:D:711:LEU:HB2	1.56	0.71
3:N:535:PHE:O	5:P:314:PRO:HA	1.91	0.71
3:N:710:ARG:NH1	3:N:1210:SER:OG	2.23	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:12:THR:OG1	1:B:24:VAL:HB	1.91	0.70
2:C:1004:LYS:HE3	2:C:1027:PHE:HE1	1.56	0.70
3:D:634:GLY:O	3:D:637:LEU:HB2	1.91	0.70
3:D:1310:ARG:HE	3:D:1327:ARG:HB3	1.55	0.70
1:L:137:ARG:HH12	1:L:139:ASN:HB3	1.56	0.70
1:L:216:GLU:OE2	1:L:220:GLU:HG3	1.90	0.70
3:N:700:VAL:HG22	3:N:718:PRO:HG3	1.73	0.70
3:N:882:PHE:O	3:N:886:VAL:HG23	1.90	0.70
3:N:1197:ARG:HD3	3:N:1396:GLU:HB2	1.72	0.70
3:D:533:GLY:HA3	5:F:309:LYS:HB3	1.72	0.70
3:D:795:VAL:HG12	3:D:796:ARG:H	1.56	0.70
3:D:814:ALA:O	3:D:818:ARG:HG3	1.91	0.70
2:M:1043:TYR:CD2	3:N:763:MET:HA	2.27	0.70
4:O:41:GLU:HA	4:O:45:ARG:HG3	1.71	0.70
5:P:420:ASP:O	5:P:422:LEU:HD23	1.90	0.70
2:C:139:GLN:HE22	2:C:415:PRO:CD	2.04	0.70
2:C:194:VAL:HG22	2:C:221:LEU:HD12	1.71	0.70
2:M:428:ARG:NH2	2:M:449:ILE:HG22	2.05	0.70
2:M:689:VAL:HG23	2:M:870:ILE:HB	1.73	0.70
4:E:25:LYS:HA	4:E:28:GLN:NE2	2.06	0.70
3:N:466:LYS:HG2	3:N:510:GLU:HG2	1.71	0.70
3:N:1043:GLY:O	3:N:1057:VAL:N	2.24	0.70
3:N:1336:LEU:HA	3:N:1340:GLY:O	1.90	0.70
3:D:984:THR:HG22	3:D:987:GLU:HG3	1.74	0.70
2:M:732:ALA:O	2:M:735:ARG:HG3	1.91	0.70
6:M:1120:STD:H312	3:N:1086:LEU:HD13	1.73	0.70
3:N:138:LYS:N	3:N:138:LYS:HD2	2.06	0.70
3:N:809:PRO:CB	3:N:812:ALA:HB2	2.18	0.70
3:N:951:ILE:O	3:N:951:ILE:HD13	1.92	0.70
4:O:24:ALA:O	4:O:28:GLN:HG3	1.91	0.70
2:C:383:ARG:HB2	2:C:383:ARG:NH1	2.06	0.70
2:C:1093:GLN:HG2	3:D:21:TRP:CH2	2.26	0.70
3:D:1155:VAL:HG11	3:D:1177:ALA:CB	2.22	0.70
1:K:218:LEU:O	1:K:222:LEU:HD22	1.92	0.70
2:M:265:ARG:HG3	2:M:288:ARG:CG	2.21	0.70
3:N:409:VAL:O	3:N:411:THR:HG23	1.91	0.70
3:N:1275:SER:HB2	3:N:1325:LEU:HD11	1.72	0.70
3:N:1277:ILE:HG22	3:N:1278:ASP:N	2.05	0.70
1:B:97:VAL:HG11	1:B:120:VAL:HG21	1.72	0.70
1:B:189:ARG:HH11	1:B:189:ARG:HG3	1.55	0.70
2:C:1092:LEU:HD13	2:C:1099:VAL:HG21	1.74	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:141:ILE:HG12	3:D:449:SER:HA	1.71	0.70
3:D:565:ILE:HD12	3:D:565:ILE:N	2.04	0.70
1:K:39:PRO:O	1:K:43:ILE:HG12	1.91	0.70
2:M:106:GLY:O	2:M:107:LEU:HD23	1.91	0.70
2:M:575:GLN:OE1	2:M:670:GLN:HG2	1.92	0.70
3:N:225:LEU:HB2	3:N:227:LEU:CD2	2.22	0.70
3:N:465:LEU:CD1	3:N:513:ILE:HD11	2.21	0.70
3:N:646:LYS:HA	3:N:720:LEU:HD22	1.73	0.70
3:N:1058:ARG:HG3	3:N:1058:ARG:HH11	1.57	0.70
3:D:215:TYR:HE2	3:D:375:GLU:HG2	1.56	0.70
3:D:1398:TRP:CZ3	3:D:1415:VAL:HG11	2.27	0.70
3:N:82:LYS:NZ	5:P:339:PRO:HG2	2.07	0.70
3:N:860:LEU:HA	3:N:877:PRO:HB2	1.72	0.70
3:N:1109:GLU:CB	3:N:1201:CYS:HA	2.22	0.70
2:C:462:ASP:CG	2:C:463:GLU:H	1.95	0.70
2:C:650:ARG:HD3	2:C:650:ARG:N	2.05	0.70
3:D:10:ILE:HG13	3:D:1434:TRP:CZ2	2.27	0.70
3:D:562:ALA:HB1	3:D:567:ILE:HD11	1.74	0.70
3:D:1399:ASP:O	3:D:1403:LEU:HD12	1.91	0.70
2:M:1087:VAL:O	2:M:1091:GLU:HG3	1.90	0.70
3:N:1336:LEU:HD12	3:N:1340:GLY:C	2.11	0.70
1:A:219:ARG:HH22	1:B:219:ARG:HD2	1.56	0.70
2:C:383:ARG:HB2	2:C:383:ARG:HH11	1.57	0.70
2:C:551:GLU:HB3	2:C:906:PHE:CD2	2.27	0.70
3:D:87:ARG:HB3	3:D:523:ASP:CB	2.22	0.70
3:D:141:ILE:HD11	3:D:450:TYR:N	2.05	0.70
3:D:168:THR:HG22	3:D:170:PRO:HD3	1.73	0.70
3:D:419:ASP:O	3:D:421:LEU:HD23	1.92	0.70
3:D:1462:LEU:HD23	3:D:1473:PRO:HD2	1.74	0.70
1:L:106:PRO:HG3	1:L:134:GLU:OE1	1.91	0.70
2:M:1015:LEU:HD13	2:M:1016:ILE:N	2.07	0.70
3:N:528:VAL:HG12	3:N:529:GLN:N	2.06	0.70
5:F:291:ILE:HD13	5:F:304:VAL:HG11	1.74	0.69
2:M:348:LEU:O	2:M:351:LEU:HB3	1.90	0.69
3:N:583:ASP:OD1	3:N:604:THR:HB	1.92	0.69
3:N:817:GLU:O	3:N:821:VAL:HG23	1.92	0.69
1:A:197:LEU:HD23	1:A:197:LEU:N	1.98	0.69
1:B:206:THR:HG23	1:B:207:PRO:HD2	1.74	0.69
2:M:420:ARG:HD2	2:M:420:ARG:H	1.55	0.69
3:N:382:GLU:HG2	3:N:383:GLY:N	2.07	0.69
3:N:1292:VAL:HG11	3:N:1325:LEU:HD23	1.74	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:325:ILE:H	2:M:325:ILE:CD1	1.95	0.69
2:M:1085:PHE:O	2:M:1088:LEU:HB3	1.92	0.69
3:N:231:VAL:HB	3:N:378:ILE:CG2	2.22	0.69
3:N:1472:ILE:O	3:N:1477:GLY:HA3	1.91	0.69
5:P:367:MET:O	5:P:370:LYS:HG2	1.91	0.69
1:B:56:VAL:HG22	1:B:142:VAL:HG12	1.75	0.69
2:C:49:ARG:HB2	2:C:49:ARG:HH11	1.58	0.69
2:C:289:THR:CG2	2:C:290:LEU:HD23	2.21	0.69
2:C:607:ASP:C	2:C:609:ASN:H	1.94	0.69
3:D:31:THR:HG23	3:D:45:PHE:CE2	2.27	0.69
3:D:368:VAL:HG12	3:D:369:ALA:H	1.56	0.69
3:D:613:ARG:HG3	3:D:613:ARG:HH11	1.57	0.69
5:F:287:THR:CG2	5:F:289:GLU:HB2	2.22	0.69
5:F:353:GLU:HG2	5:F:417:LYS:HB3	1.73	0.69
1:L:220:GLU:O	1:L:223:THR:HG22	1.92	0.69
2:M:304:LEU:HB3	2:M:305:PRO:HD3	1.74	0.69
2:M:479:VAL:HG23	2:M:506:ASN:O	1.93	0.69
2:M:838:LYS:HG3	2:M:997:LEU:HB2	1.74	0.69
3:N:225:LEU:O	3:N:227:LEU:HD22	1.92	0.69
1:B:212:ASN:O	1:B:215:VAL:HG22	1.93	0.69
2:C:95:TYR:CD2	2:C:114:PHE:HB3	2.26	0.69
2:C:564:MET:HE2	2:C:846:LYS:HE2	1.73	0.69
3:D:27:GLU:O	3:D:28:LYS:HG3	1.91	0.69
1:K:86:VAL:HG12	1:K:124:ASN:HD22	1.57	0.69
2:M:564:MET:HE2	2:M:564:MET:HA	1.72	0.69
2:M:1103:ASP:CG	2:M:1104:GLU:H	1.95	0.69
3:N:1011:PHE:CD2	3:N:1021:TYR:HB2	2.27	0.69
3:N:1340:GLY:O	3:N:1344:VAL:HG23	1.93	0.69
2:C:602:GLU:HG2	2:C:603:VAL:N	2.00	0.69
3:D:798:GLU:HG2	3:D:799:LYS:N	2.06	0.69
3:D:1101:VAL:HG21	3:D:1424:VAL:HG13	1.74	0.69
5:F:346:THR:HG23	5:F:422:LEU:HB3	1.75	0.69
2:M:443:THR:HB	2:M:444:PRO:CD	2.22	0.69
2:M:770:GLU:HG2	3:N:65:ARG:NH2	2.06	0.69
3:N:168:THR:HG22	3:N:170:PRO:HD3	1.74	0.69
5:P:274:THR:HG21	5:P:295:MET:CE	2.22	0.69
2:C:700:TYR:HB2	2:C:833:LEU:HD22	1.74	0.69
1:K:224:TYR:CE1	1:L:9:PRO:HD2	2.28	0.69
2:M:523:ILE:C	2:M:523:ILE:HD13	2.13	0.69
3:N:1311:LEU:HD23	3:N:1311:LEU:H	1.56	0.69
1:A:224:TYR:HB3	1:B:9:PRO:HB2	1.73	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:25:LEU:C	1:B:25:LEU:HD23	2.13	0.69
2:C:52:PHE:CD2	2:C:68:PHE:HB2	2.27	0.69
2:C:185:LYS:HE3	2:C:185:LYS:H	1.57	0.69
2:C:549:PHE:HB3	2:C:552:HIS:HD2	1.58	0.69
2:C:1101:THR:C	2:C:1102:LEU:HD12	2.12	0.69
3:D:172:PRO:CB	3:D:178:LEU:HD12	2.23	0.69
3:D:197:SER:CB	3:D:203:ALA:HB3	2.16	0.69
3:D:217:LYS:HB2	3:D:217:LYS:HZ3	1.55	0.69
3:D:433:GLY:H	3:D:448:GLU:HA	1.58	0.69
3:D:729:HIS:HE1	3:D:731:LEU:HG	1.57	0.69
3:D:1112:CYS:SG	3:D:1196:THR:HG23	2.32	0.69
3:D:1372:VAL:HA	3:D:1375:MET:CE	2.23	0.69
3:D:1488:ASP:HB3	4:E:39:VAL:HG12	1.74	0.69
2:M:515:ALA:O	2:M:516:ARG:HD3	1.92	0.69
2:M:889:HIS:CE1	3:N:951:ILE:H	2.07	0.69
3:N:58:CYS:SG	3:N:59:ALA:N	2.66	0.69
3:N:540:LEU:HA	3:N:543:LEU:HD12	1.75	0.69
3:N:828:LYS:N	3:N:828:LYS:HD3	2.08	0.69
5:P:87:GLU:O	5:P:91:VAL:HB	1.93	0.69
3:D:373:PRO:HB2	3:D:374:GLU:CD	2.13	0.69
3:D:705:ALA:HB3	3:D:706:PRO:CD	2.22	0.69
5:F:358:LEU:HD21	5:F:370:LYS:HZ2	1.57	0.69
1:K:97:VAL:HG12	1:K:98:THR:N	2.08	0.69
2:M:44:ILE:HG23	2:M:344:PHE:CE1	2.26	0.69
2:M:288:ARG:HA	2:M:288:ARG:NE	2.08	0.69
2:M:834:GLN:O	2:M:837:ASP:HB2	1.91	0.69
3:N:1438:ALA:C	3:N:1440:PHE:H	1.96	0.69
5:P:100:VAL:HG12	5:P:104:ARG:HH21	1.57	0.69
5:P:356:LYS:O	5:P:360:LYS:HG2	1.93	0.69
1:A:18:ARG:O	1:A:207:PRO:HD3	1.93	0.69
2:C:64:LEU:HD12	2:C:101:ILE:O	1.93	0.69
2:C:944:LEU:HD21	2:C:963:LEU:HD23	1.74	0.69
2:M:139:GLN:HE22	2:M:414:GLY:HA3	1.58	0.69
2:M:226:VAL:HG22	2:M:230:ARG:HH22	1.58	0.69
2:M:350:ARG:HG2	2:M:350:ARG:HH11	1.58	0.69
3:N:875:THR:CG2	3:N:879:ARG:HG3	2.23	0.69
3:N:1136:LYS:HD2	3:N:1139:ASP:OD1	1.93	0.69
2:C:914:ILE:O	2:C:918:LEU:HD13	1.92	0.68
3:D:127:LEU:HD21	3:D:461:ILE:HD11	1.75	0.68
3:D:244:GLU:OE1	3:D:366:LYS:HG3	1.94	0.68
4:E:46:PRO:HB3	4:E:54:LEU:CD2	2.23	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:132:ARG:O	5:F:136:LEU:HG	1.93	0.68
5:F:358:LEU:HD11	5:F:370:LYS:HE3	1.74	0.68
1:L:38:ASN:O	1:L:41:ARG:HB3	1.92	0.68
2:M:159:ILE:HG22	2:M:175:GLU:HG3	1.74	0.68
1:B:3:ASP:O	1:B:7:LYS:HB2	1.93	0.68
1:B:133:GLU:HG3	1:B:134:GLU:H	1.58	0.68
2:C:776:SER:HA	2:C:780:GLU:HB3	1.75	0.68
3:D:864:VAL:HG12	3:D:865:THR:N	2.09	0.68
3:D:1146:GLY:HA3	3:D:1207:TYR:HB2	1.76	0.68
3:D:1314:LYS:HZ1	3:D:1317:ASP:HB2	1.55	0.68
5:F:386:VAL:HG13	5:F:387:GLY:N	2.06	0.68
1:K:11:PHE:O	1:L:228:PRO:HA	1.93	0.68
2:M:860:HIS:NE2	2:M:975:TYR:HB2	2.08	0.68
2:M:981:GLU:HB3	2:M:982:PRO:CD	2.23	0.68
3:N:1356:TYR:CD1	3:N:1363:LEU:HD21	2.27	0.68
1:A:86:VAL:CG1	1:A:124:ASN:HB2	2.24	0.68
2:C:1090:LYS:HD2	3:D:90:MET:HG3	1.75	0.68
3:D:116:LEU:HB3	3:D:118:LEU:CD1	2.19	0.68
3:D:544:TYR:CD1	3:D:581:LEU:HD22	2.29	0.68
3:D:616:GLN:HG2	3:D:619:LEU:HD22	1.74	0.68
3:D:1041:LEU:HB2	3:D:1058:ARG:O	1.92	0.68
3:D:1229:ILE:HD11	3:D:1367:HIS:HB3	1.73	0.68
2:M:474:VAL:HG23	2:M:478:VAL:O	1.93	0.68
3:N:187:LYS:CE	3:N:213:VAL:H	2.06	0.68
5:P:88:ILE:CD1	5:P:193:ARG:HB2	2.20	0.68
1:B:28:LEU:O	1:B:192:LEU:HD22	1.92	0.68
2:C:881:ASN:H	2:C:881:ASN:HD22	1.40	0.68
2:C:1044:GLY:O	2:C:1046:ALA:N	2.27	0.68
3:D:211:VAL:HG12	3:D:212:ARG:H	1.58	0.68
3:D:765:SER:O	3:D:767:HIS:N	2.27	0.68
1:K:214:ALA:HA	1:K:217:ILE:HD12	1.76	0.68
2:M:129:ILE:CG2	2:M:130:ASN:N	2.55	0.68
3:N:125:GLN:HE22	3:N:587:ARG:NH2	1.92	0.68
3:N:413:ASP:OD1	3:N:444:VAL:HG21	1.93	0.68
1:B:206:THR:HB	1:B:209:GLU:CG	2.21	0.68
2:C:488:ALA:O	2:C:491:GLU:HB3	1.93	0.68
3:N:119:SER:H	3:N:123:LEU:CD1	2.02	0.68
3:N:1219:GLU:HG2	3:N:1221:VAL:HG23	1.73	0.68
3:N:1459:LEU:HD12	3:N:1470:ARG:NH1	2.08	0.68
5:P:394:ARG:H	5:P:394:ARG:CD	2.00	0.68
2:C:690:ILE:O	2:C:858:MET:HE1	1.93	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:223:LEU:HD13	3:D:365:ASP:H	1.59	0.68
3:D:728:LEU:HD12	3:D:729:HIS:H	1.59	0.68
3:D:1396:GLU:HG2	3:D:1399:ASP:HB2	1.76	0.68
5:F:416:ARG:NH2	5:F:419:ARG:HG2	2.09	0.68
3:N:237:LYS:HE2	3:N:238:PRO:HG3	1.76	0.68
3:N:522:PRO:HA	3:N:525:ARG:HH11	1.58	0.68
3:N:702:LEU:HD22	3:N:716:PHE:CD1	2.28	0.68
5:P:77:THR:O	5:P:80:PRO:HD2	1.94	0.68
1:A:197:LEU:H	1:A:197:LEU:CD2	1.92	0.68
2:C:203:ASP:OD1	2:C:206:THR:HG22	1.93	0.68
3:D:669:ASN:O	3:D:672:ALA:HB3	1.93	0.68
3:D:1266:ARG:O	3:D:1268:PRO:HD3	1.93	0.68
3:D:1462:LEU:CD2	3:D:1473:PRO:HD2	2.23	0.68
5:F:153:PRO:O	5:F:156:VAL:HG22	1.93	0.68
1:L:188:GLN:HG3	1:L:189:ARG:H	1.58	0.68
2:M:897:LEU:HB3	2:M:899:GLN:HE21	1.59	0.68
2:M:950:LEU:HD12	2:M:952:LEU:HD21	1.74	0.68
3:N:28:LYS:HG2	3:N:41:ARG:HD2	1.75	0.68
3:N:192:ALA:O	3:N:195:VAL:HG23	1.94	0.68
1:B:58:ILE:HG21	1:B:68:ILE:HD11	1.76	0.68
2:C:397:GLU:HG2	2:C:633:GLN:HE21	1.59	0.68
4:E:23:VAL:HG22	4:E:64:ALA:CB	2.23	0.68
3:N:850:LEU:HA	3:N:853:VAL:HG23	1.74	0.68
3:N:1279:GLY:O	3:N:1318:TYR:HA	1.93	0.68
4:O:26:ARG:NH2	4:O:39:VAL:HG13	2.06	0.68
1:B:94:LEU:HD23	1:B:97:VAL:HG21	1.74	0.68
1:B:189:ARG:H	1:B:189:ARG:HD2	1.58	0.68
2:C:742:VAL:HG12	2:C:743:VAL:N	2.09	0.68
2:C:1043:TYR:HE1	3:D:710:ARG:O	1.77	0.68
3:D:1258:ARG:NH1	3:D:1261:GLU:OE2	2.26	0.68
5:F:278:LEU:HB3	5:F:286:PRO:CG	2.24	0.68
2:M:200:LEU:HD13	2:M:300:ASP:OD1	1.94	0.68
2:M:478:VAL:CG1	2:M:506:ASN:HD22	2.07	0.68
1:A:228:PRO:HB3	1:B:13:VAL:HG21	1.75	0.68
2:C:893:ALA:O	2:C:897:LEU:HB2	1.94	0.68
3:D:1399:ASP:O	3:D:1403:LEU:HB2	1.94	0.68
1:L:53:VAL:HA	1:L:144:VAL:HG22	1.75	0.68
2:M:26:TYR:O	2:M:29:ALA:HB3	1.93	0.68
3:N:558:LEU:HD13	5:P:145:PRO:HA	1.75	0.68
2:C:474:VAL:HG23	2:C:478:VAL:O	1.94	0.67
2:C:673:LEU:HG	2:C:867:VAL:HG12	1.76	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:824:ASN:O	3:D:826:PRO:HD3	1.93	0.67
3:D:1109:GLU:HG2	3:D:1201:CYS:HB2	1.75	0.67
3:N:573:MET:SD	5:P:210:LEU:HB3	2.33	0.67
5:P:361:LEU:HD21	5:P:408:LEU:CB	2.22	0.67
1:A:13:VAL:HG12	1:A:14:ARG:N	2.08	0.67
2:C:873:PRO:O	2:C:875:GLY:N	2.27	0.67
1:K:75:VAL:O	1:K:79:ILE:HG23	1.94	0.67
3:N:215:TYR:HD1	3:N:390:PRO:HD2	1.59	0.67
1:B:7:LYS:HE3	1:B:186:LEU:HD22	1.76	0.67
3:D:1068:LEU:O	3:D:1072:ILE:HG12	1.94	0.67
3:D:1237:THR:HA	3:D:1255:GLY:HA3	1.76	0.67
2:M:470:PRO:HG3	2:M:485:TYR:CZ	2.29	0.67
2:M:640:ARG:HD3	2:M:642:ARG:NH2	2.09	0.67
3:N:47:GLU:OE1	3:N:53:ILE:HG22	1.94	0.67
1:A:206:THR:CG2	1:A:209:GLU:H	2.08	0.67
2:C:697:ARG:O	2:C:699:PHE:N	2.28	0.67
3:D:640:HIS:NE2	3:D:717:GLN:NE2	2.42	0.67
3:N:486:ARG:HE	3:N:489:ARG:HD3	1.60	0.67
1:A:186:LEU:HB2	1:A:192:LEU:CD1	2.23	0.67
2:C:710:ILE:HD11	2:C:758:ARG:CZ	2.25	0.67
3:D:79:GLU:O	3:D:80:VAL:HB	1.94	0.67
3:D:520:LEU:HD12	3:D:521:PRO:CD	2.22	0.67
3:D:651:GLU:O	3:D:654:LYS:HB2	1.95	0.67
3:D:754:PHE:CD1	4:E:24:ALA:HB1	2.30	0.67
3:D:820:GLU:HG2	3:D:825:ALA:O	1.94	0.67
3:D:986:ARG:O	3:D:990:ASP:OD1	2.11	0.67
2:M:95:TYR:CE2	2:M:114:PHE:HB3	2.29	0.67
3:N:185:VAL:HG13	3:N:189:GLN:OE1	1.95	0.67
3:N:483:HIS:HB2	3:N:484:PRO:HD3	1.76	0.67
3:N:760:ARG:HE	4:O:3:GLU:CD	1.97	0.67
5:P:416:ARG:CZ	5:P:419:ARG:HD2	2.25	0.67
1:A:98:THR:C	1:A:99:LEU:HD12	2.15	0.67
2:C:658:GLY:H	2:C:661:SER:CB	2.05	0.67
3:D:434:ARG:H	3:D:447:VAL:HG22	1.58	0.67
3:D:435:VAL:HG22	3:D:446:VAL:HG13	1.76	0.67
3:D:702:LEU:HB3	3:D:745:MET:HG2	1.77	0.67
1:L:197:LEU:HD21	1:L:199:ILE:HG13	1.76	0.67
2:M:313:LEU:HD13	2:M:321:GLU:HG2	1.75	0.67
2:M:1015:LEU:HB2	5:P:334:PRO:O	1.94	0.67
3:N:481:MET:CE	3:N:1388:ARG:HE	2.07	0.67
3:N:959:GLU:O	3:N:962:GLN:HB2	1.95	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:27:PRO:HG2	1:B:186:LEU:CD1	2.24	0.67
2:C:163:ILE:HG13	2:C:171:TRP:CZ3	2.30	0.67
2:C:1030:GLN:O	3:D:622:ARG:HA	1.94	0.67
3:D:396:VAL:HG22	3:D:447:VAL:HA	1.77	0.67
3:D:1018:ASN:O	3:D:1022:VAL:HG23	1.94	0.67
3:D:1476:THR:HG22	3:D:1476:THR:O	1.94	0.67
1:K:54:THR:O	1:K:54:THR:CG2	2.42	0.67
3:N:455:ARG:HH22	5:P:140:ARG:CB	2.07	0.67
3:N:1432:LYS:H	3:N:1432:LYS:HD2	1.58	0.67
2:C:480:THR:HG22	2:C:481:ASP:H	1.59	0.67
2:C:1050:GLN:NE2	3:D:1469:GLY:O	2.27	0.67
2:C:1095:LEU:C	2:C:1097:LEU:H	1.98	0.67
3:D:79:GLU:HG2	3:D:80:VAL:H	1.58	0.67
3:D:724:GLN:O	3:D:724:GLN:HG2	1.95	0.67
3:D:984:THR:CG2	3:D:987:GLU:H	2.08	0.67
1:K:41:ARG:NH1	1:K:177:VAL:O	2.28	0.67
1:K:206:THR:HG22	1:K:209:GLU:N	2.09	0.67
3:N:481:MET:O	3:N:489:ARG:HB2	1.94	0.67
3:N:525:ARG:N	3:N:526:PRO:HD3	2.09	0.67
5:P:274:THR:HG21	5:P:295:MET:HE2	1.74	0.67
5:P:367:MET:HA	5:P:370:LYS:CD	2.23	0.67
2:C:595:LEU:HD13	2:C:639:GLN:OE1	1.95	0.67
3:D:222:GLY:HA2	3:D:365:ASP:O	1.94	0.67
3:D:959:GLU:HB2	3:D:963:TYR:CE1	2.30	0.67
3:D:1109:GLU:HG2	3:D:1201:CYS:CA	2.25	0.67
1:K:25:LEU:HD22	1:L:225:PHE:CZ	2.29	0.67
2:M:186:VAL:HG23	2:M:187:ASN:H	1.60	0.67
2:M:577:PRO:HA	2:M:671:ASN:HD21	1.60	0.67
2:M:927:GLY:HA2	2:M:930:LYS:NZ	2.10	0.67
3:N:387:LEU:HD23	3:N:388:HIS:N	2.10	0.67
3:N:705:ALA:CB	3:N:706:PRO:HD3	2.23	0.67
3:N:1468:LEU:HD22	3:N:1470:ARG:HB2	1.77	0.67
2:C:1032:PHE:CZ	2:C:1040:LEU:HD22	2.28	0.67
3:D:116:LEU:HD23	3:D:468:LEU:HD11	1.77	0.67
3:D:828:LYS:HD3	3:D:828:LYS:H	1.60	0.67
3:D:1020:LEU:HD12	3:D:1023:MET:CE	2.25	0.67
3:N:12:LEU:HD21	3:N:104:PHE:CZ	2.30	0.67
3:N:701:LEU:HD21	3:N:763:MET:HE1	1.77	0.67
3:D:709:HIS:ND1	3:D:1231:GLU:HG3	2.10	0.66
5:F:287:THR:HG22	5:F:290:GLU:CD	2.15	0.66
5:F:291:ILE:HG21	5:F:304:VAL:HG11	1.76	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:592:THR:HG23	3:N:600:LEU:HD22	1.77	0.66
3:N:1118:ILE:HG23	3:N:1346:ARG:HE	1.60	0.66
1:A:189:ARG:HD3	1:A:191:ASP:OD1	1.95	0.66
1:A:213:GLN:O	1:A:217:ILE:HG13	1.95	0.66
2:C:495:THR:CG2	2:C:517:ARG:HE	2.08	0.66
2:C:838:LYS:HG3	2:C:997:LEU:HB2	1.77	0.66
3:D:795:VAL:HG12	3:D:796:ARG:N	2.09	0.66
3:D:1109:GLU:CG	3:D:1201:CYS:HB2	2.25	0.66
3:N:154:THR:HG22	3:N:155:ASP:H	1.59	0.66
5:P:367:MET:O	5:P:371:LEU:HG	1.94	0.66
1:A:18:ARG:HH12	1:A:88:ARG:CZ	2.09	0.66
2:C:338:GLU:HA	2:C:341:THR:HG22	1.78	0.66
2:C:854:PRO:HB2	2:C:856:GLU:HG2	1.78	0.66
3:D:186:VAL:HG21	3:D:213:VAL:N	2.11	0.66
3:D:542:ASP:O	3:D:546:ARG:HG2	1.95	0.66
3:D:551:ASN:O	3:D:554:LEU:HB3	1.94	0.66
3:D:704:ARG:CD	3:D:705:ALA:H	2.09	0.66
3:D:1155:VAL:HG21	3:D:1183:ILE:HD11	1.75	0.66
3:D:1310:ARG:NE	3:D:1327:ARG:HB3	2.10	0.66
1:K:183:ASP:OD1	2:M:938:LYS:HE3	1.95	0.66
2:M:573:ARG:O	2:M:574:ALA:O	2.13	0.66
3:N:245:LEU:HD11	3:N:248:PRO:HG2	1.76	0.66
3:N:1314:LYS:NZ	3:N:1317:ASP:OD2	2.27	0.66
5:F:194:LEU:O	5:F:194:LEU:HD13	1.95	0.66
1:K:91:ASN:CG	1:K:92:PRO:HD2	2.15	0.66
3:N:699:VAL:HA	3:N:718:PRO:HD3	1.77	0.66
3:N:1046:GLN:HE22	3:N:1050:GLY:HA2	1.61	0.66
5:P:88:ILE:CG2	5:P:193:ARG:HH11	2.08	0.66
1:A:101:LEU:HD11	1:A:109:VAL:HG13	1.77	0.66
1:A:115:LEU:HD12	1:A:115:LEU:O	1.96	0.66
2:C:139:GLN:OE1	2:C:415:PRO:HD3	1.95	0.66
2:C:599:GLU:HG2	2:C:600:ASP:N	2.09	0.66
3:D:131:LYS:HG3	3:D:568:ARG:CG	2.23	0.66
3:D:630:VAL:HA	3:D:744:GLN:HG2	1.77	0.66
5:F:133:ALA:HA	5:F:136:LEU:CD1	2.25	0.66
5:F:371:LEU:HA	5:F:375:LEU:H	1.59	0.66
1:K:143:ARG:O	1:K:144:VAL:HG23	1.94	0.66
2:M:199:VAL:HG21	2:M:238:LEU:HD12	1.77	0.66
3:N:584:ASN:ND2	3:N:590:PRO:HD2	2.10	0.66
3:N:771:SER:HB2	3:N:778:LEU:HD22	1.76	0.66
3:N:1114:THR:OG1	3:N:1195:GLN:HB2	1.95	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:P:134:LYS:HB2	5:P:178:ARG:NH1	2.11	0.66
2:C:29:ALA:O	2:C:44:ILE:HD13	1.95	0.66
3:D:493:ARG:NH2	3:D:1389:LEU:HD11	2.10	0.66
2:M:432:ARG:HH22	3:N:1047:LYS:CD	2.02	0.66
2:M:610:ARG:HH11	2:M:610:ARG:HG3	1.60	0.66
5:P:77:THR:C	5:P:80:PRO:HD2	2.16	0.66
5:P:93:LEU:HD13	5:P:99:GLU:HG2	1.78	0.66
5:P:368:VAL:O	5:P:371:LEU:HB2	1.94	0.66
1:A:39:PRO:HG3	1:B:39:PRO:HG3	1.76	0.66
2:C:395:LYS:CE	2:C:407:LYS:HZ2	2.09	0.66
2:C:607:ASP:HB2	2:C:610:ARG:HG3	1.78	0.66
3:D:1033:GLN:OE1	3:D:1036:ARG:NH1	2.28	0.66
3:D:1209:LEU:HD23	3:D:1210:SER:H	1.60	0.66
4:E:54:LEU:HG	4:E:58:PRO:HB2	1.78	0.66
1:K:43:ILE:HD11	1:L:35:THR:HG21	1.75	0.66
2:M:451:LEU:O	2:M:452:ILE:HG23	1.95	0.66
1:B:175:ARG:NH1	1:B:202:ASP:HB3	2.09	0.66
2:C:417:GLY:O	2:C:418:LEU:HD13	1.95	0.66
2:C:768:THR:HB	2:C:771:GLU:HB3	1.77	0.66
2:C:1049:LEU:O	2:C:1053:LEU:HD23	1.95	0.66
3:D:947:ILE:O	3:D:947:ILE:HG13	1.96	0.66
3:D:1192:LEU:HD22	3:D:1345:GLU:CD	2.15	0.66
5:F:136:LEU:CD1	5:F:137:GLY:H	2.07	0.66
5:F:137:GLY:HA2	5:F:140:ARG:NH2	2.11	0.66
2:M:252:LYS:HE2	2:M:296:GLY:CA	2.26	0.66
2:M:1056:LYS:HE3	3:N:751:LEU:HG	1.76	0.66
3:N:98:PRO:HG3	3:N:515:GLU:HB3	1.78	0.66
3:N:422:ALA:HB3	3:N:427:VAL:CG2	2.26	0.66
3:N:426:LYS:NZ	5:P:138:SER:HA	2.10	0.66
3:N:493:ARG:HE	3:N:1389:LEU:HD21	1.61	0.66
3:N:777:PRO:HG2	3:N:912:LYS:O	1.95	0.66
2:C:129:ILE:HG22	2:C:130:ASN:CG	2.16	0.66
2:C:508:ILE:HG21	2:C:513:VAL:HG21	1.78	0.66
2:C:673:LEU:CD2	2:C:867:VAL:HA	2.15	0.66
2:C:857:ASP:O	2:C:978:ARG:HG3	1.96	0.66
5:F:291:ILE:HD13	5:F:304:VAL:CG1	2.25	0.66
2:M:21:ILE:H	2:M:21:ILE:CD1	2.08	0.66
2:M:302:VAL:O	2:M:305:PRO:HD2	1.95	0.66
3:N:195:VAL:O	3:N:205:TYR:HD1	1.79	0.66
1:B:57:TYR:CE1	1:B:163:ASN:HB2	2.31	0.66
2:C:102:HIS:C	2:C:104:ASP:H	1.98	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1095:LEU:HG	3:D:603:LEU:HD13	1.78	0.66
3:D:498:VAL:O	3:D:501:ALA:HB3	1.96	0.66
3:D:661:MET:CE	3:D:673:ALA:HB1	2.26	0.66
3:D:704:ARG:HD2	3:D:705:ALA:H	1.60	0.66
3:D:761:ILE:CD1	4:E:23:VAL:HG11	2.25	0.66
5:F:358:LEU:HD11	5:F:370:LYS:HZ1	1.61	0.66
2:M:606:VAL:HG22	2:M:645:VAL:HG13	1.77	0.66
3:N:74:GLU:HB3	3:N:75:ARG:NH2	2.11	0.66
3:N:162:ARG:HG3	3:N:434:ARG:CZ	2.26	0.66
3:N:885:ILE:HD13	3:N:937:TYR:CG	2.31	0.66
3:N:957:PRO:HG3	3:N:1007:VAL:HA	1.78	0.66
3:N:1115:THR:HG22	3:N:1151:ARG:HH21	1.60	0.66
3:N:1158:VAL:HG12	3:N:1159:ARG:N	2.11	0.66
3:N:1205:TYR:CE1	3:N:1221:VAL:HG11	2.30	0.66
1:A:1:MET:HB2	1:A:6:LEU:HB2	1.79	0.65
2:C:101:ILE:HG23	2:C:107:LEU:HD22	1.77	0.65
2:C:397:GLU:H	2:C:633:GLN:CD	1.99	0.65
2:C:964:LYS:HG2	2:C:968:LEU:CD1	2.26	0.65
3:D:584:ASN:ND2	3:D:590:PRO:CD	2.56	0.65
3:D:788:GLY:O	3:D:792:ILE:HG22	1.96	0.65
3:D:1150:ALA:HB3	3:D:1187:PRO:HB2	1.78	0.65
5:F:157:GLU:O	5:F:161:GLN:HG3	1.96	0.65
1:K:59:GLU:HG3	1:K:60:ASP:N	2.11	0.65
2:M:300:ASP:HB2	2:M:303:PHE:HB2	1.76	0.65
2:M:605:LYS:CB	2:M:610:ARG:HH12	2.09	0.65
2:M:838:LYS:HD3	2:M:846:LYS:NZ	2.10	0.65
3:N:416:ALA:H	3:N:417:PRO:CD	2.07	0.65
3:N:468:LEU:HD12	3:N:468:LEU:O	1.96	0.65
3:N:1252:ILE:H	3:N:1252:ILE:HD12	1.62	0.65
2:C:202:TYR:OH	2:C:304:LEU:HD22	1.96	0.65
2:C:575:GLN:HA	2:C:662:GLU:OE2	1.96	0.65
2:C:969:GLN:NE2	2:C:971:LYS:HE2	2.12	0.65
3:D:792:ILE:HD12	3:D:941:PHE:CE1	2.31	0.65
3:D:1145:TYR:CD2	3:D:1146:GLY:N	2.64	0.65
3:N:76:CYS:SG	3:N:78:VAL:HG23	2.36	0.65
3:D:74:GLU:HB2	3:D:75:ARG:NH1	2.12	0.65
3:N:1372:VAL:HA	3:N:1375:MET:CE	2.27	0.65
1:A:62:LEU:HD12	1:A:62:LEU:N	2.07	0.65
2:C:239:PHE:HE2	2:C:253:ALA:HB3	1.61	0.65
2:C:588:VAL:CG2	2:C:589:ARG:N	2.60	0.65
2:C:1074:GLU:HG2	2:C:1075:ASP:H	1.62	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:754:PHE:O	3:D:757:ALA:HB3	1.96	0.65
1:K:41:ARG:O	1:K:45:LEU:HD12	1.95	0.65
1:L:176:ARG:HH22	3:N:884:ARG:CD	2.10	0.65
2:M:100:LEU:O	2:M:101:ILE:HD13	1.96	0.65
2:M:146:VAL:CG1	2:M:162:ILE:HG12	2.26	0.65
2:M:603:VAL:HG23	2:M:647:GLN:O	1.97	0.65
2:M:1089:VAL:HG13	2:M:1099:VAL:CG2	2.26	0.65
2:M:1091:GLU:O	2:M:1094:ALA:HB3	1.96	0.65
3:N:657:LEU:HG	3:N:661:MET:CE	2.26	0.65
3:N:1147:ARG:HB2	3:N:1166:LEU:HD21	1.79	0.65
5:P:415:THR:HG22	5:P:417:LYS:HG3	1.78	0.65
1:B:87:VAL:HG12	1:B:122:ILE:HG12	1.78	0.65
2:C:461:VAL:CG1	2:C:465:GLY:HA2	2.27	0.65
2:C:534:VAL:N	2:C:538:GLN:NE2	2.45	0.65
2:C:1008:ARG:HG2	2:C:1009:SER:N	2.11	0.65
3:D:202:VAL:O	3:D:204:LEU:HG	1.96	0.65
3:D:1123:PHE:HE2	3:D:1184:GLN:HA	1.60	0.65
3:D:1309:ALA:HB1	3:D:1326:THR:HG23	1.78	0.65
3:D:1422:MET:CE	3:D:1426:LYS:HG2	2.27	0.65
5:F:402:ASN:O	5:F:406:ARG:HG3	1.97	0.65
1:K:64:GLU:O	1:K:64:GLU:HG2	1.97	0.65
2:M:18:LEU:HA	2:M:408:ARG:HH21	1.62	0.65
2:M:263:ASP:HB2	2:M:264:PRO:HD3	1.79	0.65
3:N:1282:ARG:HB3	3:N:1282:ARG:CZ	2.27	0.65
1:A:206:THR:CB	1:A:209:GLU:HG3	2.24	0.65
3:D:145:VAL:CG2	3:D:146:PRO:HD2	2.18	0.65
3:D:705:ALA:CB	3:D:706:PRO:CD	2.75	0.65
3:D:969:ARG:HH11	3:D:969:ARG:CB	2.02	0.65
5:F:358:LEU:HD11	5:F:370:LYS:NZ	2.10	0.65
3:N:770:LEU:HD11	3:N:919:PHE:CD2	2.32	0.65
1:A:9:PRO:HD2	1:B:224:TYR:CE1	2.32	0.65
2:C:1056:LYS:HD3	3:D:623:VAL:HG13	1.78	0.65
3:D:785:ILE:HD11	3:D:935:LYS:HA	1.77	0.65
5:F:256:ARG:NH2	5:F:260:ILE:HB	2.12	0.65
3:N:387:LEU:CG	5:P:97:GLU:HG2	2.27	0.65
3:N:584:ASN:CG	3:N:590:PRO:HD2	2.16	0.65
3:N:644:LEU:HD12	3:N:645:PRO:CD	2.25	0.65
3:N:975:GLU:OE1	3:N:988:ARG:NH1	2.29	0.65
4:O:40:LEU:HD12	4:O:40:LEU:O	1.96	0.65
2:C:930:LYS:HD3	2:C:960:GLU:OE1	1.96	0.65
3:D:8:VAL:HG12	3:D:9:ARG:N	2.12	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:368:VAL:HG12	3:D:369:ALA:N	2.12	0.65
2:M:266:ARG:HD2	2:M:266:ARG:N	2.09	0.65
2:M:480:THR:HG21	2:M:482:GLU:HB3	1.79	0.65
3:N:732:VAL:HB	3:N:736:PHE:CE1	2.29	0.65
3:N:1155:VAL:HG11	3:N:1183:ILE:HD11	1.78	0.65
2:C:358:ARG:HB3	2:C:372:LEU:HD12	1.79	0.65
3:D:561:GLY:HA3	5:F:184:ARG:HH22	1.62	0.65
3:D:796:ARG:C	3:D:797:LYS:HG3	2.17	0.65
1:L:154:GLU:CD	3:N:840:LYS:HG3	2.17	0.65
1:L:206:THR:HG22	1:L:209:GLU:H	1.62	0.65
4:O:41:GLU:H	4:O:42:PRO:HD2	1.61	0.65
3:D:25:GLU:HB2	3:D:92:HIS:CE1	2.32	0.65
3:D:108:VAL:CB	3:D:109:PRO:HD3	2.17	0.65
3:D:119:SER:HB2	3:D:123:LEU:HB2	1.80	0.65
3:D:373:PRO:HB2	3:D:374:GLU:OE1	1.97	0.65
3:D:561:GLY:HA3	5:F:184:ARG:HH12	1.62	0.65
3:D:642:CYS:HB3	3:D:716:PHE:CB	2.27	0.65
3:D:914:LEU:HD23	3:D:914:LEU:C	2.16	0.65
3:D:1046:GLN:HE21	3:D:1052:THR:HG22	1.61	0.65
3:D:1064:GLY:O	3:D:1066:THR:N	2.30	0.65
3:D:1256:LEU:HB3	3:D:1257:PRO:HD3	1.79	0.65
3:D:1396:GLU:C	3:D:1398:TRP:H	2.00	0.65
5:F:94:LEU:HD13	5:F:95:THR:N	2.12	0.65
2:M:62:GLY:O	2:M:103:LYS:HG3	1.96	0.65
2:M:805:ARG:HG3	2:M:823:VAL:HG22	1.78	0.65
3:N:122:GLU:O	3:N:126:VAL:HB	1.97	0.65
2:C:49:ARG:HH11	2:C:49:ARG:CB	2.10	0.64
2:C:395:LYS:HE3	2:C:407:LYS:NZ	2.12	0.64
2:C:417:GLY:C	2:C:418:LEU:HD22	2.17	0.64
2:C:480:THR:HG21	2:C:482:GLU:HB3	1.79	0.64
2:C:516:ARG:HH11	2:C:521:PRO:HA	1.61	0.64
2:C:675:ALA:HB2	2:C:867:VAL:HG11	1.78	0.64
3:D:177:ALA:C	3:D:199:LEU:HD13	2.18	0.64
3:D:658:LEU:O	3:D:661:MET:HB2	1.97	0.64
3:D:1146:GLY:CA	3:D:1207:TYR:HB2	2.26	0.64
3:D:1189:ARG:HB3	3:D:1189:ARG:HH11	1.60	0.64
3:D:1428:ALA:O	3:D:1431:THR:HG23	1.96	0.64
3:D:1451:ALA:O	3:D:1454:GLY:N	2.28	0.64
5:F:277:GLN:O	5:F:280:GLN:HB3	1.97	0.64
2:M:332:ARG:CZ	2:M:464:LEU:HD11	2.27	0.64
2:M:1054:THR:HG21	2:M:1079:PRO:HB3	1.78	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:119:SER:O	3:N:121:THR:N	2.30	0.64
3:N:1057:VAL:HG13	3:N:1069:GLU:OE2	1.97	0.64
3:N:1189:ARG:NE	3:N:1204:CYS:SG	2.69	0.64
3:D:486:ARG:HA	3:D:489:ARG:HD3	1.79	0.64
3:D:864:VAL:HG12	3:D:865:THR:H	1.63	0.64
3:D:876:SER:OG	3:D:879:ARG:HG3	1.97	0.64
4:E:45:ARG:HB3	4:E:46:PRO:HD2	1.78	0.64
4:E:45:ARG:HH22	4:E:72:ARG:HH22	1.44	0.64
5:F:350:LEU:CD1	5:F:422:LEU:HD12	2.26	0.64
1:L:2:LEU:HD12	1:L:3:ASP:H	1.61	0.64
2:M:139:GLN:NE2	2:M:415:PRO:HD3	2.02	0.64
2:M:332:ARG:NH1	2:M:464:LEU:HD21	2.12	0.64
2:M:1005:MET:CB	3:N:629:SER:HB2	2.27	0.64
2:M:1044:GLY:C	2:M:1046:ALA:H	1.99	0.64
3:N:166:GLN:HB3	3:N:395:VAL:HG23	1.79	0.64
3:N:522:PRO:HA	3:N:525:ARG:NH1	2.12	0.64
3:N:773:ALA:O	3:N:774:SER:HB3	1.98	0.64
3:N:1271:LYS:HZ1	3:N:1334:GLN:HE22	1.45	0.64
3:N:1378:TYR:O	3:N:1420:LEU:HB3	1.97	0.64
5:P:94:LEU:HD13	5:P:95:THR:N	2.13	0.64
2:C:153:ALA:O	2:C:155:PRO:HD3	1.97	0.64
2:C:1111:ILE:HG13	2:C:1112:PHE:N	2.12	0.64
3:D:32:ILE:HD12	3:D:527:MET:HG2	1.79	0.64
3:D:385:VAL:HG13	3:D:385:VAL:O	1.97	0.64
3:D:477:LEU:HA	3:D:480:GLU:CB	2.25	0.64
3:D:554:LEU:HD23	3:D:574:LEU:HD22	1.79	0.64
3:D:739:ASP:OD1	3:D:743:ASP:OD2	2.16	0.64
3:N:536:ALA:HB2	5:P:315:VAL:CG1	2.27	0.64
3:N:890:VAL:O	3:N:890:VAL:HG23	1.97	0.64
3:N:1209:LEU:HD13	3:N:1215:VAL:HA	1.79	0.64
1:A:99:LEU:HD12	1:A:99:LEU:N	2.12	0.64
3:D:790:TYR:CE1	3:D:1022:VAL:HG13	2.32	0.64
3:D:853:VAL:HA	3:D:858:VAL:O	1.98	0.64
3:D:1063:GLU:CG	3:D:1064:GLY:H	2.09	0.64
4:E:54:LEU:CG	4:E:58:PRO:HG2	2.27	0.64
2:M:325:ILE:HD12	2:M:325:ILE:N	2.03	0.64
2:M:693:GLU:HA	2:M:696:LYS:CD	2.24	0.64
2:M:1090:LYS:HE2	2:M:1090:LYS:HA	1.79	0.64
3:N:434:ARG:HG2	3:N:447:VAL:HG21	1.79	0.64
3:N:1324:PRO:HG3	3:N:1330:ILE:HD11	1.78	0.64
4:O:39:VAL:HG22	4:O:67:GLU:OE2	1.97	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:458:TYR:HB3	2:C:470:PRO:HG2	1.79	0.64
2:C:722:ILE:CD1	2:C:823:VAL:HG21	2.27	0.64
1:L:91:ASN:O	1:L:94:LEU:HD12	1.97	0.64
3:N:428:LYS:CE	3:N:451:ASP:HB3	2.27	0.64
3:N:543:LEU:O	3:N:546:ARG:HB2	1.97	0.64
2:C:1067:TYR:CG	5:F:341:PRO:HB3	2.32	0.64
3:D:159:ARG:HB2	3:D:159:ARG:HH11	1.59	0.64
3:D:373:PRO:HG2	3:D:374:GLU:H	1.62	0.64
3:D:378:ILE:HD13	3:D:378:ILE:N	2.09	0.64
3:D:1151:ARG:HA	3:D:1162:GLU:CG	2.26	0.64
1:K:189:ARG:NH1	1:L:155:LYS:NZ	2.45	0.64
1:L:176:ARG:HH12	3:N:884:ARG:HD3	1.61	0.64
2:M:571:LEU:N	2:M:571:LEU:HD12	2.13	0.64
2:M:759:THR:HB	2:M:785:VAL:HG11	1.78	0.64
5:P:401:GLU:O	5:P:405:LEU:HB3	1.97	0.64
3:D:93:ILE:CD1	3:D:548:ILE:HD11	2.27	0.64
3:D:1167:SER:O	3:D:1171:VAL:HG23	1.98	0.64
3:D:1326:THR:HG22	3:D:1327:ARG:N	2.12	0.64
4:E:48:MET:HB2	4:E:54:LEU:HB2	1.78	0.64
2:M:291:ALA:O	2:M:292:ARG:HB2	1.98	0.64
1:A:35:THR:HG21	1:B:43:ILE:CD1	2.24	0.64
1:A:70:GLY:H	2:C:607:ASP:CG	2.00	0.64
3:D:598:ARG:HD2	3:D:599:PRO:HD2	1.78	0.64
3:D:616:GLN:CA	3:D:619:LEU:HB3	2.27	0.64
3:D:1007:VAL:HG23	3:D:1008:PHE:N	2.13	0.64
3:D:1474:ALA:O	3:D:1477:GLY:N	2.31	0.64
1:K:59:GLU:CG	1:K:60:ASP:H	2.07	0.64
1:K:224:TYR:HB3	1:L:9:PRO:HB2	1.79	0.64
2:M:207:LEU:HD22	2:M:221:LEU:HD22	1.78	0.64
3:N:245:LEU:HD12	3:N:249:TYR:HB2	1.79	0.64
5:P:295:MET:CE	5:P:295:MET:HA	2.26	0.64
1:B:86:VAL:HG13	1:B:123:MET:HB2	1.78	0.64
1:B:122:ILE:HG22	1:B:124:ASN:H	1.63	0.64
2:C:111:ASP:O	2:C:113:VAL:HG23	1.98	0.64
2:C:441:VAL:O	2:C:559:LEU:HD13	1.98	0.64
2:C:442:GLU:OE2	2:C:543:ASN:HB2	1.98	0.64
2:C:1083:GLU:O	2:C:1087:VAL:HG23	1.98	0.64
3:D:661:MET:HE3	3:D:673:ALA:HB1	1.79	0.64
3:D:1155:VAL:HG11	3:D:1183:ILE:HD11	1.79	0.64
1:K:53:VAL:HG21	1:K:82:LEU:O	1.98	0.64
1:L:197:LEU:C	1:L:197:LEU:HD23	2.18	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:676:ILE:HG22	2:M:988:VAL:O	1.97	0.64
3:N:225:LEU:HD22	3:N:440:VAL:HG21	1.80	0.64
3:N:642:CYS:O	3:N:642:CYS:SG	2.56	0.64
3:N:1372:VAL:HG13	3:N:1375:MET:HE2	1.79	0.64
3:N:1434:TRP:HZ3	3:N:1457:ASP:H	1.44	0.64
5:P:139:ALA:HB1	5:P:152:ASP:CB	2.28	0.64
5:P:163:LEU:HD13	5:P:174:LEU:CD2	2.27	0.64
1:A:173:PRO:O	1:A:201:THR:HG23	1.97	0.64
1:B:23:PHE:HB2	1:B:197:LEU:HD21	1.78	0.64
1:B:59:GLU:HG3	1:B:60:ASP:H	1.62	0.64
1:B:152:PRO:CD	1:B:155:LYS:HD2	2.25	0.64
2:C:97:ARG:NH2	2:C:109:LYS:HD2	2.13	0.64
2:C:1058:ASP:HB2	3:D:621:LYS:NZ	2.13	0.64
3:D:32:ILE:O	5:F:258:ILE:HG23	1.97	0.64
3:D:1020:LEU:HD21	3:D:1038:LEU:HD13	1.80	0.64
3:D:1476:THR:CG2	4:E:21:VAL:HG22	2.27	0.64
2:M:18:LEU:CA	2:M:408:ARG:NH2	2.58	0.64
2:M:480:THR:CG2	2:M:482:GLU:HB3	2.27	0.64
2:M:766:GLU:HB3	3:N:54:LYS:HZ1	1.60	0.64
5:P:325:LYS:HD2	5:P:326:ASP:OD2	1.98	0.64
3:D:149:LYS:HD3	3:D:149:LYS:H	1.63	0.63
3:D:1264:GLU:HG2	3:D:1266:ARG:NH2	2.13	0.63
1:L:58:ILE:HD13	1:L:140:MET:CB	2.28	0.63
1:L:100:LEU:HB2	1:L:115:LEU:HD11	1.81	0.63
2:M:192:PRO:O	2:M:195:LEU:HB3	1.98	0.63
2:C:607:ASP:HB2	2:C:610:ARG:NH1	2.13	0.63
2:C:1016:ILE:H	2:C:1016:ILE:CD1	1.83	0.63
3:D:129:PHE:CD2	3:D:587:ARG:CZ	2.82	0.63
3:D:994:GLN:O	3:D:998:GLU:HG3	1.98	0.63
3:D:1441:GLN:NE2	3:D:1441:GLN:HA	2.14	0.63
3:D:1472:ILE:O	3:D:1477:GLY:HA3	1.97	0.63
2:M:110:GLU:HG2	2:M:369:PRO:HG3	1.80	0.63
2:M:926:PHE:O	2:M:929:ARG:HB2	1.97	0.63
3:D:72:VAL:CG1	3:D:73:CYS:N	2.61	0.63
3:D:1046:GLN:CB	3:D:1052:THR:HA	2.28	0.63
3:D:1363:LEU:HD12	3:D:1364:HIS:O	1.98	0.63
5:F:278:LEU:HB3	5:F:286:PRO:HG2	1.80	0.63
1:K:151:VAL:HG22	1:K:155:LYS:NZ	2.14	0.63
3:N:686:GLU:HA	3:N:689:ASP:OD2	1.98	0.63
3:N:798:GLU:HB2	3:N:828:LYS:HG2	1.80	0.63
3:N:1147:ARG:CB	3:N:1188:VAL:HG21	2.16	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1462:LEU:HD23	3:N:1473:PRO:HD2	1.80	0.63
1:B:221:HIS:HA	1:B:224:TYR:HD2	1.63	0.63
2:C:12:VAL:HG22	2:C:13:ILE:HG23	1.80	0.63
2:C:535:SER:O	2:C:538:GLN:HG2	1.97	0.63
3:D:770:LEU:HG	3:D:919:PHE:HE1	1.63	0.63
3:D:807:ALA:HB2	3:D:833:GLU:CB	2.28	0.63
3:D:809:PRO:HB2	3:D:812:ALA:CB	2.29	0.63
3:D:996:TRP:NE1	3:D:1056:PRO:HG2	2.12	0.63
1:L:33:GLY:HA2	1:L:195:LEU:HB2	1.81	0.63
1:L:103:ALA:O	1:L:104:GLU:HG3	1.98	0.63
2:M:595:LEU:HD21	2:M:623:TYR:HB3	1.81	0.63
2:M:946:ARG:O	2:M:950:LEU:HB2	1.99	0.63
3:N:374:GLU:HB3	3:N:385:VAL:O	1.98	0.63
3:N:656:PHE:HB3	3:N:694:VAL:HG11	1.80	0.63
3:N:1432:LYS:H	3:N:1432:LYS:CD	2.12	0.63
1:B:89:PHE:HB3	1:B:94:LEU:HD22	1.79	0.63
3:D:965:GLU:HG3	3:D:969:ARG:HH22	1.62	0.63
3:D:1121:PRO:C	3:D:1122:LEU:HD12	2.19	0.63
1:K:58:ILE:HD13	1:K:140:MET:CB	2.29	0.63
2:M:1016:ILE:H	2:M:1016:ILE:CD1	1.95	0.63
3:N:133:ILE:HD13	3:N:454:ALA:HB1	1.80	0.63
1:B:23:PHE:HB2	1:B:197:LEU:CD2	2.28	0.63
1:B:221:HIS:HA	1:B:224:TYR:CD2	2.34	0.63
2:C:835:VAL:HG22	2:C:836:GLY:N	2.14	0.63
3:D:678:GLU:HG3	3:D:679:ARG:HG3	1.81	0.63
3:D:895:VAL:O	3:D:899:LEU:HD12	1.98	0.63
3:D:1280:VAL:HG12	3:D:1281:VAL:N	2.12	0.63
2:M:54:ILE:CG2	2:M:66:LEU:HB3	2.28	0.63
3:N:645:PRO:HG2	3:N:724:GLN:O	1.99	0.63
3:N:699:VAL:H	3:N:756:GLN:NE2	1.96	0.63
3:N:806:PHE:O	3:N:808:THR:N	2.32	0.63
1:A:38:ASN:HB3	1:A:39:PRO:HD3	1.80	0.63
1:A:44:LEU:HA	1:A:48:ILE:CD1	2.29	0.63
1:A:182:GLU:O	1:A:194:LYS:HB3	1.99	0.63
1:B:153:ALA:HA	1:B:156:HIS:NE2	2.13	0.63
2:C:196:LEU:HA	2:C:199:VAL:HG23	1.81	0.63
2:C:736:ASP:C	2:C:738:ASP:H	2.01	0.63
2:C:744:ARG:NE	2:C:747:ALA:HB2	2.13	0.63
3:D:141:ILE:H	3:D:141:ILE:CD1	1.90	0.63
3:D:231:VAL:HA	3:D:378:ILE:HG13	1.80	0.63
3:D:660:LYS:HD2	3:D:663:GLU:OE2	1.98	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1389:LEU:H	3:D:1389:LEU:CD2	2.11	0.63
5:F:239:ALA:O	5:F:243:ILE:HG13	1.99	0.63
1:K:54:THR:O	1:K:55:SER:HB2	1.96	0.63
2:M:919:ALA:HA	2:M:968:LEU:HD21	1.79	0.63
3:N:915:VAL:O	3:N:918:ALA:HB3	1.99	0.63
3:N:1109:GLU:HB3	3:N:1201:CYS:HA	1.81	0.63
3:N:1364:HIS:ND1	3:N:1366:LYS:HG3	2.14	0.63
3:N:1432:LYS:HD2	3:N:1432:LYS:N	2.14	0.63
5:P:406:ARG:HG2	5:P:409:LYS:HE2	1.80	0.63
1:A:94:LEU:HD23	1:A:97:VAL:HG21	1.81	0.63
2:C:443:THR:CG2	2:C:450:GLY:H	2.10	0.63
2:C:904:PRO:HB2	2:C:907:ASP:O	1.98	0.63
2:C:1118:LYS:HA	3:D:23:TYR:CZ	2.34	0.63
3:D:34:TYR:OH	5:F:264:MET:HG3	1.99	0.63
3:D:596:SER:C	3:D:598:ARG:H	2.00	0.63
1:L:68:ILE:O	1:L:71:VAL:HB	1.98	0.63
2:M:579:VAL:HG11	2:M:887:GLU:HG3	1.81	0.63
3:N:475:LYS:O	3:N:478:LEU:HB2	1.98	0.63
3:N:1047:LYS:HA	3:N:1053:PHE:CE1	2.34	0.63
3:N:1114:THR:CB	3:N:1195:GLN:HB2	2.29	0.63
1:B:23:PHE:CZ	1:B:208:LEU:HA	2.34	0.63
3:D:728:LEU:CD2	3:D:745:MET:HE1	2.29	0.63
3:D:1063:GLU:HG2	3:D:1064:GLY:H	1.63	0.63
1:K:109:VAL:O	1:K:129:ILE:HB	1.99	0.63
1:K:175:ARG:O	1:K:176:ARG:HB3	1.99	0.63
2:M:433:THR:HG22	2:M:488:ALA:HB1	1.79	0.63
2:M:769:PRO:HB2	3:N:65:ARG:HH12	1.64	0.63
2:M:1025:ALA:HB3	2:M:1026:GLN:NE2	2.14	0.63
3:N:210:ARG:HH11	3:N:398:ALA:HB3	1.63	0.63
3:N:1110:ALA:O	3:N:1111:ASP:C	2.36	0.63
2:C:569:VAL:O	2:C:571:LEU:HD12	1.99	0.62
2:C:725:ASP:C	2:C:727:PRO:HD3	2.19	0.62
3:D:247:GLU:H	3:D:248:PRO:HD2	1.64	0.62
3:D:500:ARG:HH22	3:D:1388:ARG:NH1	1.97	0.62
1:L:137:ARG:HG2	1:L:137:ARG:HH11	1.64	0.62
2:M:857:ASP:HA	2:M:977:GLY:HA3	1.80	0.62
2:M:1018:GLN:HG3	2:M:1060:ILE:HD11	1.81	0.62
3:N:896:ALA:O	3:N:899:LEU:HD12	1.99	0.62
3:N:1159:ARG:O	3:N:1159:ARG:HG3	1.98	0.62
5:P:132:ARG:NH2	5:P:184:ARG:HH12	1.97	0.62
5:P:151:LEU:HB2	5:P:155:THR:OG1	1.99	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:101:ILE:HD12	2:C:107:LEU:HD22	1.81	0.62
2:C:259:GLY:HA2	2:C:290:LEU:O	1.99	0.62
2:C:553:ASP:HA	2:C:881:ASN:HA	1.82	0.62
2:C:671:ASN:ND2	2:C:993:PHE:HD2	1.97	0.62
2:C:683:ASN:HA	2:C:687:ALA:HB3	1.81	0.62
2:C:964:LYS:O	2:C:968:LEU:HD12	1.99	0.62
3:D:133:ILE:HG12	3:D:454:ALA:HB1	1.81	0.62
3:D:179:VAL:HG13	3:D:389:GLU:OE2	1.99	0.62
3:D:629:SER:O	3:D:744:GLN:HB3	2.00	0.62
3:D:1145:TYR:HD2	3:D:1146:GLY:N	1.96	0.62
2:M:15:LEU:HB2	2:M:586:ARG:NH1	2.10	0.62
3:N:139:GLY:HA3	3:N:452:ILE:HD13	1.81	0.62
3:N:430:ASP:HB3	3:N:432:TYR:CE2	2.33	0.62
3:N:892:ASP:HB3	3:N:895:VAL:CG2	2.29	0.62
3:N:1213:ARG:HB2	3:N:1214:PRO:CD	2.26	0.62
1:B:156:HIS:CD2	1:B:157:GLY:H	2.17	0.62
2:C:252:LYS:HE2	2:C:296:GLY:HA2	1.81	0.62
2:C:580:MET:O	2:C:902:ILE:HA	1.99	0.62
3:D:1023:MET:O	3:D:1028:ALA:HB3	1.99	0.62
5:F:393:THR:HG22	5:F:394:ARG:N	2.10	0.62
1:K:127:LEU:HD12	1:K:128:HIS:N	2.13	0.62
2:M:208:ALA:HB1	2:M:222:MET:HE2	1.81	0.62
2:M:543:ASN:HD22	2:M:562:SER:HB3	1.64	0.62
2:M:859:PRO:O	2:M:867:VAL:HG22	2.00	0.62
2:M:886:LEU:CD1	3:N:951:ILE:HG13	2.29	0.62
3:N:23:TYR:O	3:N:24:GLY:O	2.17	0.62
3:N:767:HIS:CD2	4:O:6:ILE:HG12	2.35	0.62
3:N:792:ILE:CD1	3:N:881:LEU:HD23	2.29	0.62
3:N:1437:ALA:HB3	3:N:1446:VAL:HG11	1.80	0.62
5:P:420:ASP:O	5:P:422:LEU:N	2.31	0.62
2:C:726:ILE:O	2:C:726:ILE:HG22	1.98	0.62
3:D:367:ILE:CD1	3:D:368:VAL:H	2.12	0.62
3:D:806:PHE:O	3:D:808:THR:N	2.32	0.62
2:M:895:TYR:HD1	2:M:991:GLN:HE21	1.47	0.62
2:M:1094:ALA:HB2	3:N:520:LEU:HD13	1.80	0.62
3:N:90:MET:HB3	3:N:519:VAL:O	2.00	0.62
3:N:935:LYS:O	3:N:939:PHE:HD1	1.83	0.62
3:N:948:THR:OG1	3:N:949:ILE:N	2.31	0.62
3:N:1078:ARG:HB3	3:N:1078:ARG:NH1	2.11	0.62
1:A:62:LEU:H	1:A:62:LEU:CD1	2.10	0.62
2:C:431:HIS:HD2	2:C:432:ARG:H	1.47	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:525:SER:O	2:C:528:GLU:HB2	1.99	0.62
3:D:119:SER:N	3:D:123:LEU:HB2	2.13	0.62
3:D:671:LYS:HA	3:D:674:ARG:HD3	1.81	0.62
2:M:480:THR:HG22	2:M:482:GLU:H	1.64	0.62
3:N:813:LEU:HD12	3:N:814:ALA:N	2.14	0.62
1:A:5:LYS:HA	1:A:5:LYS:HE3	1.80	0.62
1:A:18:ARG:HH22	1:A:88:ARG:NH2	1.96	0.62
2:C:6:PHE:O	2:C:7:GLY:O	2.16	0.62
2:C:911:GLU:HB3	2:C:912:PRO:HD3	1.81	0.62
3:D:225:LEU:HD12	3:D:440:VAL:HG21	1.82	0.62
3:D:898:GLU:HB3	3:D:921:ARG:HH22	1.65	0.62
2:M:442:GLU:HG2	2:M:454:SER:HB2	1.82	0.62
2:M:578:VAL:H	2:M:671:ASN:HD21	1.47	0.62
2:M:695:LEU:HD21	2:M:833:LEU:HB3	1.81	0.62
3:N:669:ASN:O	3:N:672:ALA:HB3	1.99	0.62
5:P:234:LYS:HE3	5:P:236:SER:HB3	1.81	0.62
2:C:770:GLU:HG2	3:D:65:ARG:HH22	1.63	0.62
2:C:967:PHE:HA	2:C:971:LYS:O	2.00	0.62
3:D:97:THR:HG21	3:D:571:LYS:HD3	1.82	0.62
3:D:704:ARG:HG3	3:D:705:ALA:N	2.15	0.62
3:D:906:GLN:OE1	3:D:906:GLN:HA	1.99	0.62
3:D:1319:VAL:HG12	3:D:1323:GLN:OE1	1.99	0.62
3:D:1422:MET:HE3	3:D:1426:LYS:HG2	1.81	0.62
1:L:58:ILE:HD13	1:L:140:MET:HB2	1.82	0.62
2:M:578:VAL:HG13	2:M:671:ASN:ND2	2.14	0.62
3:N:939:PHE:O	3:N:942:SER:HB3	1.99	0.62
3:N:1197:ARG:HB2	3:N:1396:GLU:HG3	1.81	0.62
1:A:20:TYR:O	1:A:207:PRO:HG2	2.00	0.62
2:C:676:ILE:CG2	2:C:988:VAL:HG13	2.29	0.62
1:K:62:LEU:HD23	1:K:163:ASN:OD1	1.99	0.62
3:N:793:THR:O	3:N:879:ARG:NH1	2.32	0.62
3:N:965:GLU:HA	3:N:968:ASP:HB2	1.82	0.62
1:A:75:VAL:O	1:A:75:VAL:HG12	2.00	0.62
1:A:86:VAL:HG12	1:A:124:ASN:HB2	1.80	0.62
5:F:88:ILE:CD1	5:F:193:ARG:HB2	2.26	0.62
1:K:12:THR:CG2	1:K:24:VAL:HB	2.29	0.62
2:M:300:ASP:C	2:M:302:VAL:H	2.01	0.62
2:M:679:PHE:CZ	2:M:978:ARG:NH1	2.67	0.62
3:N:1042:ARG:HG3	3:N:1042:ARG:O	1.99	0.62
1:B:153:ALA:HB1	1:B:166:PRO:CB	2.28	0.62
2:C:644:VAL:HG22	2:C:647:GLN:OE1	2.00	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:689:VAL:CG2	2:C:870:ILE:HB	2.30	0.62
2:C:813:VAL:HG21	2:C:815:LEU:HD13	1.82	0.62
3:D:218:LYS:CE	3:D:370:ALA:HA	2.30	0.62
1:K:1:MET:O	1:K:6:LEU:HD22	2.00	0.62
2:M:559:LEU:CD1	2:M:563:ASN:HD21	2.13	0.62
2:M:1056:LYS:HB3	3:N:624:ASP:H	1.64	0.62
3:N:191:LEU:HD22	3:N:195:VAL:HG11	1.80	0.62
3:N:657:LEU:HG	3:N:661:MET:HE2	1.82	0.62
3:N:1155:VAL:O	3:N:1157:GLY:N	2.32	0.62
3:N:1273:VAL:HG22	3:N:1326:THR:OG1	1.99	0.62
2:C:292:ARG:HD2	2:C:299:LYS:HE2	1.80	0.61
3:D:761:ILE:HD11	4:E:23:VAL:HG11	1.81	0.61
3:D:1170:ASP:O	3:D:1174:LEU:HG	2.01	0.61
2:M:537:LYS:CA	2:M:905:ILE:HD11	2.30	0.61
3:N:470:LEU:HD12	3:N:503:LEU:HG	1.82	0.61
3:N:1134:LEU:HD23	3:N:1135:ARG:N	2.15	0.61
5:P:234:LYS:HE3	5:P:236:SER:CB	2.30	0.61
5:P:273:ARG:O	5:P:277:GLN:HG3	1.98	0.61
2:C:106:GLY:O	2:C:107:LEU:HD23	2.00	0.61
2:C:194:VAL:HG22	2:C:221:LEU:CD1	2.29	0.61
3:D:117:ASP:C	3:D:118:LEU:HD12	2.20	0.61
3:D:232:GLU:HB2	3:D:234:GLU:OE2	2.00	0.61
3:D:703:ASN:HD22	3:D:704:ARG:N	1.98	0.61
3:D:796:ARG:HD3	3:D:862:ASP:OD2	2.01	0.61
3:D:1045:MET:HG3	3:D:1073:SER:CA	2.29	0.61
5:F:282:LEU:HD12	5:F:284:ARG:H	1.64	0.61
2:M:215:GLY:O	2:M:218:VAL:HG23	1.99	0.61
2:M:626:ARG:NH2	2:M:639:GLN:HE22	1.97	0.61
2:C:863:ASP:O	2:C:863:ASP:CG	2.38	0.61
2:C:896:PHE:CE2	2:C:925:TYR:HB2	2.34	0.61
3:D:86:ARG:HG2	3:D:523:ASP:OD2	2.00	0.61
3:D:1262:LEU:CD2	3:D:1352:ILE:HG13	2.11	0.61
3:D:1379:VAL:CG1	3:D:1395:LEU:HD23	2.28	0.61
1:K:97:VAL:HG12	1:K:98:THR:H	1.65	0.61
2:M:15:LEU:HD21	2:M:583:LEU:HD22	1.82	0.61
2:M:575:GLN:C	2:M:667:ALA:HB1	2.20	0.61
3:N:231:VAL:CB	3:N:378:ILE:HG23	2.30	0.61
3:N:702:LEU:HB3	3:N:745:MET:CE	2.30	0.61
5:P:144:ILE:HB	5:P:145:PRO:HD3	1.80	0.61
1:A:51:THR:HG22	1:A:145:ASP:O	1.99	0.61
2:C:571:LEU:HD12	2:C:571:LEU:H	1.65	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:658:GLY:N	2:C:661:SER:HB2	2.08	0.61
2:C:1090:LYS:HE2	2:C:1112:PHE:CE1	2.36	0.61
3:D:112:ILE:O	3:D:112:ILE:HD12	2.01	0.61
3:D:1159:ARG:HG2	3:D:1159:ARG:HH11	1.65	0.61
2:M:194:VAL:HG22	2:M:221:LEU:HD12	1.82	0.61
2:M:281:LEU:HD13	2:M:306:THR:HA	1.81	0.61
2:M:673:LEU:N	2:M:868:ASP:OD2	2.33	0.61
2:M:919:ALA:CA	2:M:968:LEU:HD21	2.30	0.61
2:M:1000:MET:HB2	2:M:1002:GLU:OE1	2.00	0.61
3:N:404:GLU:OE2	3:N:414:ARG:NH2	2.33	0.61
2:C:494:TYR:HB3	2:C:530:GLU:OE2	2.00	0.61
2:M:384:GLU:HG3	2:M:388:ARG:HE	1.66	0.61
2:M:943:VAL:HG13	2:M:985:GLY:H	1.64	0.61
2:M:1118:LYS:O	2:M:1119:ARG:HB2	2.01	0.61
3:N:397:LYS:HZ3	3:N:399:ARG:HH21	1.48	0.61
2:C:194:VAL:HG21	2:C:221:LEU:O	2.00	0.61
3:D:67:ARG:HB2	5:F:375:LEU:HD11	1.82	0.61
3:D:379:ALA:HB3	3:D:382:GLU:OE1	2.01	0.61
1:K:90:LEU:HB2	1:K:119:ASP:HB3	1.82	0.61
2:M:167:LYS:NZ	2:M:168:ARG:HH21	1.99	0.61
2:M:723:THR:HG23	2:M:725:ASP:H	1.66	0.61
3:N:116:LEU:HB3	3:N:118:LEU:HD13	1.83	0.61
3:N:562:ALA:HB3	3:N:567:ILE:HG12	1.83	0.61
3:N:633:VAL:HG22	3:N:635:PRO:HD3	1.81	0.61
3:N:935:LYS:CG	3:N:939:PHE:HE1	2.13	0.61
3:N:1262:LEU:HD23	3:N:1352:ILE:HG13	1.82	0.61
5:P:88:ILE:O	5:P:92:PRO:HG3	1.99	0.61
1:A:25:LEU:HD22	1:A:28:LEU:HD11	1.82	0.61
1:B:217:ILE:HG22	1:B:221:HIS:HD2	1.64	0.61
2:C:132:ALA:HB1	2:C:632:ASN:HD21	1.65	0.61
2:C:288:ARG:NE	2:C:288:ARG:HA	2.14	0.61
2:C:516:ARG:CD	3:D:1068:LEU:HD13	2.31	0.61
2:C:637:LEU:HA	2:C:659:PRO:HG3	1.82	0.61
2:C:843:HIS:CD2	2:C:884:GLN:HA	2.35	0.61
5:F:354:LEU:HD23	5:F:418:LEU:HD21	1.83	0.61
1:L:3:ASP:CG	1:L:4:SER:H	2.03	0.61
2:M:18:LEU:C	2:M:408:ARG:HH21	2.04	0.61
2:M:113:VAL:O	2:M:115:LEU:HD23	2.01	0.61
2:M:137:VAL:HG13	2:M:409:ARG:O	2.01	0.61
2:M:512:ARG:CG	2:M:523:ILE:HD11	2.24	0.61
2:M:578:VAL:N	2:M:671:ASN:HD21	1.99	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:40:GLU:HG3	3:N:41:ARG:H	1.65	0.61
3:N:1363:LEU:HD11	3:N:1368:ILE:HD11	1.80	0.61
5:P:300:ASP:O	5:P:304:VAL:HG23	2.01	0.61
2:C:42:VAL:HG12	2:C:43:GLY:H	1.66	0.61
2:C:344:PHE:O	2:C:348:LEU:HD13	2.00	0.61
2:C:701:THR:HG23	2:C:832:LYS:HA	1.82	0.61
3:D:34:TYR:CE2	5:F:260:ILE:HG13	2.35	0.61
3:D:233:LYS:NZ	3:D:237:LYS:HD2	2.16	0.61
3:D:966:GLU:O	3:D:969:ARG:HG2	2.01	0.61
5:F:207:LEU:HB2	5:F:212:LEU:CD2	2.31	0.61
1:K:25:LEU:HD23	1:K:195:LEU:HD23	1.81	0.61
2:M:578:VAL:N	2:M:671:ASN:ND2	2.49	0.61
2:M:620:LEU:HD23	2:M:620:LEU:H	1.65	0.61
2:M:774:LEU:HD23	5:P:354:LEU:HD21	1.83	0.61
3:N:1062:ARG:C	3:N:1062:ARG:HD3	2.21	0.61
5:P:94:LEU:CG	5:P:97:GLU:HB2	2.31	0.61
5:P:300:ASP:CG	5:P:301:ALA:N	2.53	0.61
1:B:101:LEU:HD23	1:B:102:LYS:N	2.15	0.61
2:C:52:PHE:O	2:C:54:ILE:N	2.33	0.61
3:D:385:VAL:HG21	5:F:97:GLU:OE2	2.00	0.61
3:D:493:ARG:NE	3:D:1389:LEU:HG	2.15	0.61
3:D:826:PRO:HD2	3:D:829:VAL:CG1	2.30	0.61
3:D:1109:GLU:HG2	3:D:1201:CYS:HA	1.81	0.61
3:D:1372:VAL:HA	3:D:1375:MET:HE2	1.83	0.61
3:D:1389:LEU:HD23	3:D:1389:LEU:N	2.11	0.61
2:M:713:ARG:HB2	2:M:720:GLU:OE1	2.01	0.61
2:M:1051:GLU:OE2	3:N:752:SER:HB3	2.00	0.61
2:M:1055:LEU:CD2	2:M:1079:PRO:HG3	2.31	0.61
2:M:1115:LEU:HD13	3:N:85:VAL:HG12	1.83	0.61
3:N:409:VAL:O	3:N:411:THR:N	2.34	0.61
3:N:1042:ARG:HH12	3:N:1045:MET:CE	2.13	0.61
5:P:358:LEU:HD11	5:P:370:LYS:HD2	1.83	0.61
5:P:389:PHE:HE2	5:P:394:ARG:HG3	1.66	0.61
1:A:5:LYS:O	1:A:8:ALA:HB2	2.01	0.61
2:C:192:PRO:O	2:C:195:LEU:HB3	2.00	0.61
2:C:197:LEU:HD13	2:C:207:LEU:HD11	1.83	0.61
2:C:591:SER:O	2:C:592:LEU:HD23	2.01	0.61
2:C:691:SER:O	2:C:693:GLU:N	2.34	0.61
2:C:695:LEU:HD21	2:C:833:LEU:O	2.01	0.61
2:C:726:ILE:O	2:C:728:HIS:N	2.34	0.61
3:D:647:ARG:HD2	3:D:680:GLN:NE2	2.16	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:887:ALA:O	3:D:890:VAL:O	2.18	0.61
3:D:1095:THR:O	3:D:1099:VAL:HG23	1.99	0.61
3:D:1201:CYS:SG	3:D:1204:CYS:CB	2.85	0.61
2:M:111:ASP:O	2:M:113:VAL:HG23	2.01	0.61
3:N:820:GLU:OE2	3:N:836:VAL:HG21	2.00	0.61
3:N:899:LEU:HD12	3:N:900:ILE:HG23	1.83	0.61
3:N:1121:PRO:O	3:N:1122:LEU:HD12	2.01	0.61
3:N:1277:ILE:O	3:N:1321:ALA:HA	2.00	0.61
3:N:1368:ILE:O	3:N:1372:VAL:HG23	2.01	0.61
1:A:32:PHE:C	1:A:34:VAL:H	2.04	0.60
1:A:161:ARG:HH11	1:A:161:ARG:HG3	1.65	0.60
1:A:182:GLU:CD	2:C:935:GLY:H	2.04	0.60
1:A:218:LEU:HD23	1:B:222:LEU:HD11	1.82	0.60
2:C:412:ALA:HB1	2:C:419:THR:HG21	1.83	0.60
3:D:218:LYS:HD3	3:D:372:ASP:H	1.66	0.60
3:D:784:ASP:O	3:D:787:LEU:HB3	2.01	0.60
3:D:1155:VAL:CG2	3:D:1183:ILE:HD11	2.31	0.60
2:M:398:THR:HG23	2:M:635:THR:HG21	1.83	0.60
2:M:516:ARG:NH1	2:M:521:PRO:HB3	2.16	0.60
2:M:922:PHE:CD2	2:M:964:LYS:HD3	2.34	0.60
2:M:1018:GLN:HG2	3:N:87:ARG:HH22	1.66	0.60
3:N:502:PHE:CZ	3:N:1452:ILE:HD11	2.35	0.60
3:N:736:PHE:O	3:N:737:ASN:C	2.39	0.60
3:N:852:ALA:HB1	3:N:857:ILE:HB	1.82	0.60
3:N:924:MET:HB3	4:O:7:ASP:OD2	2.00	0.60
3:N:955:VAL:HB	3:N:1011:PHE:HE1	1.65	0.60
3:N:957:PRO:CG	3:N:1007:VAL:HG12	2.31	0.60
3:N:1237:THR:HG22	3:N:1238:MET:N	2.16	0.60
2:C:266:ARG:HH11	2:C:266:ARG:HG3	1.66	0.60
2:C:277:ALA:O	2:C:281:LEU:HD23	2.02	0.60
2:C:436:GLY:HA2	2:C:538:GLN:O	2.01	0.60
2:C:572:ILE:HG12	2:C:701:THR:O	2.01	0.60
2:C:636:ALA:HB2	2:C:705:ILE:CD1	2.31	0.60
3:D:716:PHE:O	3:D:718:PRO:HD3	2.01	0.60
3:D:1109:GLU:HG2	3:D:1202:GLN:H	1.67	0.60
3:D:1314:LYS:HZ3	3:D:1317:ASP:HB2	1.62	0.60
4:E:40:LEU:HD12	4:E:40:LEU:O	2.01	0.60
1:K:151:VAL:HG13	1:K:155:LYS:HD3	1.83	0.60
2:M:333:ILE:O	2:M:333:ILE:HG22	2.01	0.60
2:M:478:VAL:HG13	2:M:506:ASN:HD22	1.64	0.60
2:M:553:ASP:OD1	2:M:843:HIS:ND1	2.34	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:44:LEU:HB3	3:N:525:ARG:HH21	1.63	0.60
3:N:197:SER:HB3	3:N:203:ALA:HB3	1.83	0.60
3:N:669:ASN:H	3:N:672:ALA:CB	2.15	0.60
3:N:770:LEU:HD11	3:N:919:PHE:CG	2.36	0.60
3:N:1155:VAL:CG2	3:N:1183:ILE:HD11	2.30	0.60
5:P:88:ILE:HD13	5:P:193:ARG:HD2	1.83	0.60
5:P:151:LEU:HB2	5:P:155:THR:H	1.65	0.60
2:C:906:PHE:HE1	3:D:1067:VAL:HG13	1.66	0.60
2:C:1007:ALA:O	2:C:1027:PHE:HD2	1.83	0.60
3:D:714:GLN:HE22	3:D:735:ALA:HB1	1.65	0.60
3:D:1451:ALA:O	3:D:1453:ALA:N	2.34	0.60
2:M:375:SER:O	2:M:379:GLU:HB2	2.01	0.60
2:M:755:LEU:O	2:M:756:VAL:HG23	2.00	0.60
3:N:187:LYS:HE2	3:N:213:VAL:CG1	2.18	0.60
3:N:574:LEU:HD12	3:N:574:LEU:O	2.01	0.60
3:N:911:LEU:O	3:N:914:LEU:N	2.34	0.60
3:N:1068:LEU:HD23	3:N:1072:ILE:HD13	1.82	0.60
3:N:1258:ARG:NH2	3:N:1262:LEU:HD11	2.16	0.60
1:A:69:PRO:HA	2:C:607:ASP:OD2	2.01	0.60
1:B:175:ARG:HB2	1:B:200:TRP:HB3	1.82	0.60
2:C:1067:TYR:HB2	5:F:341:PRO:HB3	1.81	0.60
3:D:218:LYS:HD2	3:D:372:ASP:OD1	2.01	0.60
3:D:996:TRP:CZ3	3:D:999:THR:HG21	2.37	0.60
3:D:1031:ASN:HB3	3:D:1034:GLN:CD	2.22	0.60
3:D:1120:VAL:HG11	3:D:1144:LEU:CG	2.31	0.60
3:D:1231:GLU:HB3	3:D:1232:PRO:CD	2.28	0.60
1:K:111:ALA:CB	1:K:127:LEU:HB3	2.31	0.60
1:L:33:GLY:HA3	1:L:181:VAL:HG13	1.83	0.60
1:L:221:HIS:HA	1:L:224:TYR:CD2	2.35	0.60
2:M:1005:MET:HB3	3:N:629:SER:HB2	1.82	0.60
3:N:1291:SER:HB3	3:N:1293:PHE:HE1	1.67	0.60
5:P:139:ALA:HB1	5:P:152:ASP:HB2	1.83	0.60
5:P:220:LEU:O	5:P:220:LEU:HD23	2.00	0.60
2:C:16:PRO:O	2:C:18:LEU:HD12	2.01	0.60
2:C:762:LYS:HA	2:C:786:LYS:CD	2.28	0.60
2:C:762:LYS:HB2	2:C:762:LYS:NZ	2.16	0.60
3:D:1476:THR:HG23	4:E:21:VAL:CG2	2.29	0.60
4:E:61:GLU:CD	4:E:62:THR:N	2.55	0.60
5:F:256:ARG:HH21	5:F:260:ILE:HB	1.65	0.60
1:L:30:ARG:NH2	2:M:692:GLU:OE2	2.28	0.60
1:L:49:PRO:HA	1:L:147:GLY:O	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:106:PRO:HD3	1:L:134:GLU:OE2	2.01	0.60
2:M:413:LEU:CD1	2:M:451:LEU:HD22	2.31	0.60
2:M:712:ALA:O	2:M:820:ARG:HB2	2.00	0.60
3:N:179:VAL:HG21	3:N:217:LYS:HE2	1.84	0.60
3:N:714:GLN:HE22	3:N:732:VAL:HG11	1.66	0.60
3:N:785:ILE:HG23	3:N:938:GLY:HA3	1.82	0.60
3:N:806:PHE:HD1	3:N:812:ALA:HB3	1.65	0.60
3:N:1071:PHE:O	3:N:1074:SER:OG	2.20	0.60
3:N:1403:LEU:O	3:N:1407:LEU:HD13	2.01	0.60
1:A:206:THR:HG22	1:A:208:LEU:N	2.16	0.60
2:C:328:LEU:HD13	2:C:433:THR:HB	1.83	0.60
2:C:554:ASP:OD2	2:C:556:ASN:HB3	2.01	0.60
2:C:943:VAL:HG21	2:C:973:VAL:HG13	1.82	0.60
3:D:525:ARG:N	3:D:526:PRO:HD3	2.15	0.60
3:D:609:GLY:HA3	3:D:614:PHE:H	1.66	0.60
3:D:987:GLU:O	3:D:991:GLN:HB2	2.02	0.60
3:D:1007:VAL:CG2	3:D:1008:PHE:N	2.64	0.60
3:N:231:VAL:HA	3:N:378:ILE:HG12	1.82	0.60
3:N:1205:TYR:CE1	3:N:1221:VAL:CG1	2.85	0.60
1:A:114:PHE:CZ	1:A:142:VAL:HG21	2.37	0.60
2:C:26:TYR:O	2:C:29:ALA:HB3	2.02	0.60
2:C:431:HIS:CD2	2:C:432:ARG:H	2.20	0.60
2:C:941:VAL:HA	2:C:944:LEU:HD12	1.84	0.60
3:D:714:GLN:HE22	3:D:735:ALA:CB	2.14	0.60
3:D:860:LEU:HD23	3:D:877:PRO:HB2	1.84	0.60
3:D:1119:SER:O	3:D:1121:PRO:HD3	2.01	0.60
5:F:287:THR:HG23	5:F:289:GLU:H	1.67	0.60
1:K:101:LEU:C	1:K:101:LEU:HD23	2.21	0.60
1:K:151:VAL:O	1:K:151:VAL:HG12	2.01	0.60
2:M:73:LEU:HD23	2:M:93:PRO:O	2.02	0.60
3:N:554:LEU:HD12	3:N:558:LEU:HD11	1.83	0.60
3:N:889:ALA:HB1	3:N:930:LEU:HA	1.84	0.60
3:N:903:ASP:O	3:N:904:VAL:HG13	2.02	0.60
1:A:28:LEU:HB2	1:A:193:ASP:O	2.02	0.60
1:A:156:HIS:HD2	1:A:158:ILE:HG12	1.66	0.60
2:C:191:PHE:HD2	2:C:195:LEU:HD23	1.67	0.60
2:C:197:LEU:HD13	2:C:207:LEU:CD1	2.32	0.60
3:D:709:HIS:CD2	3:D:711:LEU:HB2	2.37	0.60
3:D:807:ALA:HB2	3:D:833:GLU:HB3	1.82	0.60
3:D:819:GLY:O	3:D:822:ALA:HB3	2.01	0.60
3:D:1264:GLU:OE2	3:D:1425:THR:HB	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:E:41:GLU:H	4:E:42:PRO:HD2	1.66	0.60
4:E:45:ARG:NH2	4:E:72:ARG:HH22	1.98	0.60
5:F:251:ILE:O	5:F:255:ALA:HB2	2.02	0.60
1:K:38:ASN:HD22	1:K:179:PHE:HE2	1.47	0.60
1:K:54:THR:O	1:K:54:THR:HG22	2.00	0.60
1:L:161:ARG:HH11	1:L:161:ARG:HG3	1.67	0.60
2:M:703:ILE:HG12	2:M:830:LYS:HG2	1.83	0.60
3:N:99:ALA:HA	3:N:575:GLN:HE22	1.67	0.60
3:N:137:PRO:CD	3:N:453:ASP:HB3	2.32	0.60
3:N:162:ARG:CB	3:N:434:ARG:HH21	2.14	0.60
3:N:669:ASN:OD1	3:N:672:ALA:HB2	2.00	0.60
2:C:154:ARG:C	2:C:156:GLY:H	2.05	0.60
2:C:381:ALA:O	2:C:384:GLU:HB3	2.02	0.60
2:C:605:LYS:HE2	2:C:610:ARG:HH22	1.67	0.60
3:D:18:ILE:HG21	3:D:516:ALA:O	2.02	0.60
3:D:133:ILE:HG13	3:D:456:MET:HE2	1.84	0.60
3:D:785:ILE:HD13	3:D:935:LYS:HA	1.83	0.60
3:D:1102:THR:O	3:D:1105:ILE:HG12	2.02	0.60
1:K:124:ASN:N	1:K:125:PRO:HD3	2.17	0.60
1:K:214:ALA:O	1:K:217:ILE:N	2.35	0.60
2:M:838:LYS:HG3	2:M:997:LEU:HD12	1.83	0.60
3:N:47:GLU:CD	3:N:53:ILE:HG22	2.22	0.60
5:P:389:PHE:HB3	5:P:397:ILE:HD11	1.83	0.60
1:B:78:ILE:C	1:B:80:LEU:H	2.05	0.60
2:C:413:LEU:HD12	2:C:413:LEU:N	2.08	0.60
2:C:516:ARG:NH2	3:D:1068:LEU:CB	2.63	0.60
2:C:1034:GLU:O	2:C:1037:VAL:HB	2.02	0.60
3:D:1258:ARG:NH2	3:D:1262:LEU:HD11	2.17	0.60
1:K:206:THR:CG2	1:K:209:GLU:H	2.09	0.60
2:M:167:LYS:C	2:M:169:GLY:H	2.03	0.60
2:M:678:PRO:O	3:N:943:THR:HB	2.01	0.60
2:M:795:GLY:O	2:M:796:GLU:HG2	2.02	0.60
3:N:951:ILE:HD11	3:N:1062:ARG:O	2.02	0.60
5:P:167:PRO:HB2	5:P:169:GLU:OE1	2.01	0.60
2:C:244:PRO:HG2	2:C:246:ASP:OD2	2.01	0.59
3:D:750:PRO:HG2	3:D:756:GLN:OE1	2.02	0.59
1:K:13:VAL:HG12	1:K:14:ARG:H	1.64	0.59
3:N:56:TYR:O	3:N:80:VAL:HG21	2.02	0.59
3:N:118:LEU:O	3:N:120:ALA:N	2.35	0.59
3:N:133:ILE:CG2	3:N:454:ALA:HB1	2.24	0.59
3:N:153:LEU:HD23	3:N:153:LEU:N	2.17	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:159:ARG:NH2	5:P:87:GLU:HG2	2.17	0.59
3:N:202:VAL:HG12	3:N:204:LEU:HG	1.83	0.59
3:N:441:ARG:C	3:N:443:VAL:H	2.05	0.59
3:N:935:LYS:HG2	3:N:939:PHE:CE1	2.37	0.59
5:P:302:LYS:HD2	5:P:303:ARG:N	2.17	0.59
1:A:184:THR:O	1:A:192:LEU:HB2	2.02	0.59
2:C:585:GLU:HG2	2:C:665:PHE:CE2	2.38	0.59
2:C:671:ASN:N	2:C:671:ASN:ND2	2.50	0.59
3:D:1085:ALA:HB3	6:D:1525:STD:O9	2.02	0.59
3:D:1443:THR:O	3:D:1447:LEU:HD22	2.01	0.59
4:E:40:LEU:HD22	4:E:45:ARG:NH1	2.16	0.59
1:K:26:GLU:HG2	1:K:27:PRO:N	2.17	0.59
1:K:112:ARG:HG3	1:K:113:ASP:OD2	2.02	0.59
1:K:132:LEU:HD12	1:K:132:LEU:N	2.17	0.59
1:L:176:ARG:HG2	1:L:200:TRP:CG	2.36	0.59
2:M:768:THR:HB	2:M:771:GLU:HB3	1.84	0.59
2:M:1014:SER:HA	2:M:1021:LEU:HD22	1.82	0.59
3:N:155:ASP:O	3:N:159:ARG:HB2	2.02	0.59
3:N:422:ALA:HB3	3:N:427:VAL:HG13	1.84	0.59
3:N:1197:ARG:HD2	3:N:1396:GLU:HB2	1.83	0.59
2:C:507:ARG:HB2	2:C:507:ARG:HH11	1.67	0.59
2:C:859:PRO:HB3	2:C:974:LEU:HD23	1.84	0.59
3:D:1020:LEU:HA	3:D:1023:MET:HE3	1.85	0.59
5:F:370:LYS:O	5:F:374:GLY:HA3	2.03	0.59
2:M:102:HIS:C	2:M:104:ASP:H	2.05	0.59
2:M:578:VAL:HG23	2:M:579:VAL:HG12	1.84	0.59
3:N:169:TYR:HA	3:N:392:SER:HA	1.83	0.59
3:N:217:LYS:HG3	3:N:389:GLU:HB3	1.82	0.59
3:N:1267:ARG:NH1	3:N:1271:LYS:HG3	2.17	0.59
5:P:120:THR:CG2	5:P:122:LEU:HD13	2.15	0.59
5:P:416:ARG:CG	5:P:419:ARG:HG3	2.33	0.59
2:C:73:LEU:HA	2:C:93:PRO:O	2.01	0.59
2:C:192:PRO:HB2	2:C:195:LEU:CB	2.32	0.59
2:C:456:ALA:HA	2:C:541:SER:HA	1.84	0.59
2:C:589:ARG:HA	2:C:596:TYR:OH	2.02	0.59
3:D:651:GLU:OE1	3:D:651:GLU:HA	2.03	0.59
3:D:699:VAL:HG12	3:D:717:GLN:CA	2.32	0.59
2:M:54:ILE:O	2:M:54:ILE:HG23	2.02	0.59
2:M:63:GLY:HA3	2:M:103:LYS:HD2	1.83	0.59
2:M:106:GLY:C	2:M:107:LEU:HD23	2.22	0.59
2:M:424:GLY:O	2:M:428:ARG:HG3	2.01	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:666:LEU:CD2	2:M:668:LEU:HD11	2.32	0.59
3:N:97:THR:OG1	3:N:571:LYS:HE3	2.02	0.59
3:N:119:SER:HB2	3:N:123:LEU:HB2	1.82	0.59
3:N:536:ALA:HA	5:P:315:VAL:O	2.03	0.59
3:N:715:ALA:HB3	3:N:764:LEU:CA	2.22	0.59
5:P:220:LEU:O	5:P:224:VAL:HG23	2.02	0.59
2:C:128:ILE:C	2:C:129:ILE:HD12	2.23	0.59
2:C:859:PRO:O	2:C:867:VAL:HG22	2.03	0.59
3:D:972:LEU:HG	3:D:976:GLN:OE1	2.02	0.59
3:D:1155:VAL:HG11	3:D:1177:ALA:HB1	1.83	0.59
5:F:102:LEU:O	5:F:106:VAL:HG23	2.02	0.59
5:F:174:LEU:O	5:F:178:ARG:HG2	2.03	0.59
2:M:73:LEU:HD11	2:M:118:ILE:HD11	1.83	0.59
3:N:574:LEU:O	3:N:578:VAL:HG23	2.02	0.59
3:N:584:ASN:OD1	3:N:590:PRO:HD2	2.03	0.59
3:N:1150:ALA:H	3:N:1188:VAL:HA	1.68	0.59
3:N:1283:ILE:HG22	3:N:1284:GLU:N	2.15	0.59
4:O:19:LEU:O	4:O:23:VAL:HG23	2.02	0.59
2:C:679:PHE:O	2:C:681:GLY:N	2.36	0.59
2:C:1034:GLU:HG3	2:C:1035:MET:N	2.17	0.59
3:D:9:ARG:NH1	3:D:11:ALA:HB2	2.18	0.59
3:D:247:GLU:H	3:D:248:PRO:CD	2.14	0.59
2:M:89:THR:O	2:M:91:GLN:HG3	2.02	0.59
3:N:123:LEU:O	3:N:126:VAL:HG12	2.03	0.59
3:N:711:LEU:CD1	3:N:778:LEU:HD23	2.32	0.59
3:N:1336:LEU:HD12	3:N:1340:GLY:O	2.02	0.59
3:N:1349:VAL:HG21	3:N:1369:GLU:HG2	1.85	0.59
1:A:79:ILE:HD12	1:A:80:LEU:N	2.17	0.59
1:A:124:ASN:N	1:A:125:PRO:HD3	2.17	0.59
1:A:153:ALA:HA	1:A:156:HIS:CE1	2.38	0.59
1:B:57:TYR:CE2	1:B:161:ARG:HG2	2.37	0.59
1:B:58:ILE:HG22	1:B:59:GLU:N	2.18	0.59
2:C:74:GLY:O	2:C:75:GLU:HG3	2.03	0.59
3:D:39:PRO:HB3	3:D:45:PHE:HB2	1.83	0.59
3:D:139:GLY:HA3	3:D:147:VAL:HG13	1.84	0.59
3:D:182:GLY:O	3:D:185:VAL:N	2.36	0.59
3:D:183:GLU:O	3:D:186:VAL:HG12	2.03	0.59
3:D:629:SER:OG	3:D:630:VAL:N	2.36	0.59
2:M:405:ARG:HH21	2:M:409:ARG:NH2	2.01	0.59
2:M:1089:VAL:HG13	2:M:1099:VAL:HG23	1.81	0.59
3:N:50:PHE:CD2	3:N:522:PRO:HD3	2.38	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:421:LEU:HD11	3:N:437:VAL:CG2	2.32	0.59
3:N:781:PRO:CB	3:N:911:LEU:HD23	2.27	0.59
3:N:968:ASP:O	3:N:971:LEU:HB3	2.02	0.59
3:N:1107:VAL:O	3:N:1218:GLY:N	2.35	0.59
3:N:1450:ALA:HB1	3:N:1455:LYS:HB2	1.85	0.59
4:O:38:THR:HG21	4:O:41:GLU:OE1	2.02	0.59
1:A:18:ARG:HH12	1:A:88:ARG:HE	1.45	0.59
1:A:35:THR:O	1:A:39:PRO:HG2	2.03	0.59
1:B:152:PRO:HD2	1:B:155:LYS:CD	2.29	0.59
1:B:189:ARG:HG3	1:B:189:ARG:NH1	2.16	0.59
2:C:139:GLN:OE1	2:C:414:GLY:HA3	2.02	0.59
2:C:607:ASP:HB3	2:C:610:ARG:H	1.67	0.59
2:C:923:GLU:OE1	2:C:927:GLY:HA3	2.02	0.59
3:D:371:ILE:HD12	3:D:371:ILE:O	2.02	0.59
3:D:601:ARG:NH1	3:D:601:ARG:HB2	2.17	0.59
3:D:949:ILE:O	3:D:949:ILE:HG22	2.03	0.59
3:D:1310:ARG:HG3	3:D:1327:ARG:CB	2.28	0.59
3:D:1379:VAL:O	3:D:1392:GLY:HA2	2.03	0.59
2:M:244:PRO:CG	2:M:245:GLY:H	2.16	0.59
2:M:549:PHE:HB3	2:M:552:HIS:CD2	2.38	0.59
3:N:1274:ILE:HD12	3:N:1274:ILE:O	2.03	0.59
2:C:66:LEU:HD13	2:C:100:LEU:HB3	1.85	0.59
2:C:149:THR:HG23	2:C:150:PRO:HD2	1.85	0.59
3:D:794:GLN:NE2	3:D:795:VAL:O	2.36	0.59
3:D:808:THR:HB	3:D:809:PRO:CD	2.33	0.59
1:K:103:ALA:C	1:K:104:GLU:HG3	2.22	0.59
2:M:428:ARG:CZ	6:M:1120:STD:H292	2.33	0.59
2:M:516:ARG:HD2	2:M:521:PRO:HA	1.84	0.59
2:M:679:PHE:C	2:M:681:GLY:H	2.04	0.59
2:M:886:LEU:O	2:M:887:GLU:C	2.41	0.59
3:N:1209:LEU:HD23	3:N:1211:MET:CE	2.33	0.59
5:P:126:LEU:O	5:P:130:VAL:HG23	2.02	0.59
2:C:470:PRO:HG3	2:C:485:TYR:CZ	2.37	0.59
2:C:1097:LEU:HG	3:D:101:HIS:HE1	1.67	0.59
3:D:218:LYS:HD3	3:D:371:ILE:N	2.18	0.59
3:D:646:LYS:O	3:D:648:MET:N	2.36	0.59
1:K:56:VAL:O	1:K:164:ALA:HB1	2.01	0.59
5:P:343:ASP:O	5:P:346:THR:HB	2.02	0.59
2:C:474:VAL:CG1	2:C:529:VAL:HG12	2.29	0.58
3:D:50:PHE:CD2	3:D:522:PRO:HD3	2.38	0.58
3:D:150:ARG:O	3:D:150:ARG:HG2	2.03	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:704:ARG:CG	3:D:705:ALA:N	2.66	0.58
3:D:1074:SER:O	3:D:1077:ALA:CB	2.51	0.58
4:E:45:ARG:NH2	4:E:72:ARG:NH2	2.51	0.58
2:M:798:GLY:H	2:M:827:VAL:CG1	2.16	0.58
3:N:225:LEU:HB2	3:N:227:LEU:HD21	1.84	0.58
1:B:62:LEU:HD13	1:B:63:HIS:CD2	2.38	0.58
1:B:173:PRO:HB3	1:B:205:VAL:HG22	1.84	0.58
2:C:21:ILE:HD12	2:C:21:ILE:N	2.13	0.58
2:C:31:GLN:NE2	2:C:40:GLU:HB2	2.17	0.58
3:D:613:ARG:NH2	5:F:328:PHE:CE1	2.71	0.58
5:F:105:LYS:O	5:F:180:GLY:HA2	2.02	0.58
5:F:418:LEU:HD12	5:F:418:LEU:N	2.18	0.58
2:M:585:GLU:O	2:M:587:VAL:N	2.36	0.58
2:M:841:ASN:HD21	2:M:843:HIS:CD2	2.20	0.58
3:N:11:ALA:HB1	3:N:507:ASN:OD1	2.03	0.58
3:N:134:VAL:HG23	3:N:134:VAL:O	2.03	0.58
3:N:138:LYS:O	3:N:452:ILE:HD12	2.03	0.58
3:N:811:GLU:O	3:N:815:ALA:HB3	2.02	0.58
5:P:364:ARG:HH11	5:P:364:ARG:HG3	1.68	0.58
2:C:80:GLN:O	2:C:83:CYS:N	2.35	0.58
2:C:141:HIS:HB2	2:C:418:LEU:HD12	1.84	0.58
2:C:446:GLY:O	2:C:449:ILE:HG13	2.02	0.58
3:D:23:TYR:CE2	3:D:89:ARG:NH1	2.71	0.58
3:D:462:GLN:HG3	3:D:513:ILE:HD13	1.85	0.58
3:D:701:LEU:N	3:D:701:LEU:HD12	2.17	0.58
3:D:843:PHE:CD1	3:D:849:ALA:HA	2.38	0.58
3:D:1076:GLY:HA2	3:D:1079:LYS:HG2	1.85	0.58
5:F:278:LEU:CB	5:F:286:PRO:HG2	2.34	0.58
2:M:620:LEU:HG	2:M:620:LEU:O	2.03	0.58
3:N:1489:GLN:HA	3:N:1489:GLN:NE2	2.19	0.58
2:C:657:ASP:OD1	2:C:661:SER:HB3	2.03	0.58
3:D:79:GLU:HG2	3:D:80:VAL:N	2.17	0.58
3:D:148:GLU:HB3	3:D:151:GLN:HB2	1.85	0.58
4:E:47:LYS:HA	4:E:54:LEU:HB3	1.85	0.58
5:F:368:VAL:HG11	5:F:389:PHE:HD1	1.66	0.58
5:F:371:LEU:O	5:F:375:LEU:N	2.36	0.58
1:K:42:ARG:HH12	2:M:857:ASP:HB3	1.68	0.58
1:K:176:ARG:HH12	2:M:863:ASP:HB2	1.68	0.58
1:L:206:THR:HG23	1:L:208:LEU:H	1.69	0.58
2:M:435:TYR:O	2:M:437:ARG:HG2	2.04	0.58
2:M:605:LYS:HB2	2:M:610:ARG:NH1	2.16	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:881:ASN:HD22	2:M:881:ASN:H	1.52	0.58
3:N:387:LEU:HD21	5:P:97:GLU:HG2	1.86	0.58
1:A:224:TYR:CD2	1:B:9:PRO:HG2	2.37	0.58
2:C:524:VAL:HG22	2:C:525:SER:N	2.15	0.58
2:C:583:LEU:O	2:C:587:VAL:HG23	2.03	0.58
2:C:801:VAL:O	2:C:802:ARG:HB2	2.02	0.58
3:D:103:TRP:HZ2	3:D:604:THR:HG1	1.52	0.58
3:D:136:ASP:CB	3:D:137:PRO:CD	2.77	0.58
3:D:172:PRO:HB3	3:D:178:LEU:HB2	1.84	0.58
3:D:217:LYS:HZ1	3:D:389:GLU:HB3	1.67	0.58
3:D:764:LEU:O	3:D:765:SER:C	2.42	0.58
3:D:1103:HIS:O	3:D:1105:ILE:N	2.37	0.58
5:F:85:LEU:HA	5:F:88:ILE:HB	1.85	0.58
2:M:471:TYR:CD1	2:M:486:MET:HE1	2.38	0.58
3:N:688:TRP:O	3:N:691:LEU:HB3	2.03	0.58
3:N:729:HIS:ND1	3:N:730:PRO:HD2	2.19	0.58
3:N:850:LEU:HA	3:N:853:VAL:CG2	2.34	0.58
3:N:1372:VAL:O	3:N:1375:MET:HG3	2.03	0.58
1:A:186:LEU:HB2	1:A:192:LEU:HD13	1.85	0.58
2:C:71:TYR:H	2:C:71:TYR:HD2	1.51	0.58
2:C:140:ILE:HA	2:C:332:ARG:O	2.03	0.58
2:C:435:TYR:CE1	2:C:539:VAL:CG2	2.86	0.58
2:C:517:ARG:O	2:C:520:GLU:HB2	2.03	0.58
2:C:958:THR:HG23	2:C:961:GLU:H	1.69	0.58
3:D:646:LYS:HG3	3:D:647:ARG:H	1.68	0.58
3:D:1062:ARG:NH1	3:D:1062:ARG:CG	2.61	0.58
3:D:1110:ALA:O	3:D:1112:CYS:N	2.36	0.58
1:L:28:LEU:O	1:L:192:LEU:HD22	2.03	0.58
1:L:175:ARG:N	1:L:200:TRP:O	2.33	0.58
2:M:200:LEU:HD13	2:M:300:ASP:CG	2.24	0.58
3:N:58:CYS:SG	3:N:78:VAL:HB	2.42	0.58
3:N:1104:GLU:O	3:N:1108:ARG:NH2	2.36	0.58
4:O:60:ALA:O	4:O:63:TRP:HB2	2.03	0.58
1:A:184:THR:O	1:A:192:LEU:HD12	2.03	0.58
1:B:173:PRO:CB	1:B:205:VAL:HG22	2.34	0.58
2:C:490:GLU:HG3	2:C:493:ARG:NH1	2.18	0.58
2:C:952:LEU:HD12	2:C:969:GLN:NE2	2.18	0.58
2:C:1020:PRO:O	3:D:622:ARG:HD2	2.04	0.58
3:D:794:GLN:NE2	3:D:795:VAL:H	2.01	0.58
3:D:932:ASP:O	3:D:935:LYS:HB3	2.03	0.58
3:D:996:TRP:O	3:D:999:THR:N	2.37	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1277:ILE:O	3:D:1321:ALA:HA	2.03	0.58
1:K:206:THR:HG22	1:K:209:GLU:CB	2.34	0.58
1:L:92:PRO:C	1:L:94:LEU:H	2.06	0.58
1:L:206:THR:HG23	1:L:208:LEU:N	2.18	0.58
2:M:195:LEU:HD21	2:M:238:LEU:HG	1.84	0.58
2:M:578:VAL:HG13	2:M:671:ASN:CG	2.24	0.58
2:M:710:ILE:HD12	2:M:790:LEU:HB2	1.84	0.58
3:N:95:LEU:HD12	3:N:515:GLU:HA	1.86	0.58
3:N:196:VAL:HG13	3:N:202:VAL:HG13	1.84	0.58
3:N:912:LYS:HB3	3:N:912:LYS:HZ2	1.68	0.58
3:N:1033:GLN:O	3:N:1037:GLN:HG3	2.04	0.58
3:N:1047:LYS:HB3	3:N:1048:PRO:HD2	1.85	0.58
3:N:1256:LEU:HB3	3:N:1257:PRO:HD3	1.85	0.58
2:C:230:ARG:HG3	2:C:233:GLU:HB3	1.85	0.58
2:C:1005:MET:HE1	3:D:645:PRO:HD2	1.84	0.58
3:D:32:ILE:HG23	3:D:38:LYS:O	2.04	0.58
3:D:86:ARG:O	3:D:522:PRO:HD2	2.04	0.58
3:D:469:ASP:O	3:D:472:ALA:HB3	2.04	0.58
5:F:81:VAL:O	5:F:85:LEU:HG	2.02	0.58
5:F:164:LYS:HB2	5:F:171:LYS:NZ	2.19	0.58
5:F:416:ARG:NH2	5:F:419:ARG:CD	2.65	0.58
2:M:545:ASN:OD1	2:M:905:ILE:HD13	2.04	0.58
2:M:610:ARG:HG3	2:M:610:ARG:NH1	2.19	0.58
2:M:810:ASP:HB3	2:M:813:VAL:HG22	1.86	0.58
3:N:93:ILE:HD13	3:N:548:ILE:HG12	1.84	0.58
3:N:709:HIS:NE2	3:N:711:LEU:HB2	2.19	0.58
2:C:129:ILE:HB	2:C:134:ARG:HD2	1.85	0.58
2:C:555:ALA:HB2	3:D:1070:TYR:CE1	2.38	0.58
2:C:721:ARG:HG3	2:C:721:ARG:HH11	1.67	0.58
3:D:77:GLY:O	3:D:78:VAL:CG2	2.50	0.58
3:D:89:ARG:O	3:D:521:PRO:HG3	2.04	0.58
3:D:1057:VAL:O	3:D:1057:VAL:HG12	2.04	0.58
3:D:1076:GLY:HA2	3:D:1079:LYS:CG	2.34	0.58
3:D:1345:GLU:O	3:D:1349:VAL:HG23	2.04	0.58
4:E:40:LEU:HD22	4:E:45:ARG:HH11	1.68	0.58
1:L:195:LEU:HD12	1:L:196:THR:N	2.19	0.58
2:M:711:GLU:HG2	2:M:822:VAL:HG12	1.85	0.58
3:N:455:ARG:HG2	3:N:455:ARG:NH1	2.19	0.58
3:N:826:PRO:O	3:N:836:VAL:HG11	2.02	0.58
1:A:94:LEU:HD23	1:A:97:VAL:CG2	2.34	0.58
2:C:689:VAL:O	2:C:690:ILE:HD13	2.04	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:693:GLU:O	3:D:694:VAL:C	2.43	0.58
3:D:806:PHE:HD1	3:D:812:ALA:HB3	1.69	0.58
3:D:994:GLN:HE21	3:D:998:GLU:CD	2.07	0.58
3:D:1084:THR:HG22	3:D:1087:ARG:NH2	2.18	0.58
3:D:1155:VAL:CG1	3:D:1183:ILE:HD11	2.33	0.58
3:D:1331:ASP:OD2	3:D:1332:PRO:HD2	2.04	0.58
4:E:61:GLU:OE1	4:E:62:THR:N	2.37	0.58
1:L:61:VAL:HG21	1:L:68:ILE:HD11	1.85	0.58
1:L:74:ASP:O	1:L:78:ILE:HG13	2.04	0.58
2:M:577:PRO:HG3	2:M:993:PHE:CD1	2.39	0.58
3:N:175:VAL:O	3:N:179:VAL:HG21	2.04	0.58
3:N:1282:ARG:HB3	3:N:1282:ARG:NH1	2.19	0.58
1:A:202:ASP:OD1	1:A:204:SER:HB2	2.04	0.57
2:C:676:ILE:O	3:D:948:THR:CG2	2.52	0.57
3:D:858:VAL:HG12	3:D:862:ASP:CB	2.34	0.57
1:K:176:ARG:NH2	2:M:865:THR:HB	2.19	0.57
1:L:226:SER:O	1:L:228:PRO:HD3	2.03	0.57
2:M:157:ARG:NH1	2:M:314:THR:HB	2.18	0.57
2:M:524:VAL:HG22	2:M:525:SER:H	1.67	0.57
2:M:1052:MET:HE2	3:N:748:HIS:HB3	1.85	0.57
3:N:76:CYS:HG	3:N:78:VAL:HG23	1.67	0.57
3:N:163:TYR:OH	3:N:394:LEU:HD23	2.03	0.57
3:N:996:TRP:CD2	3:N:1056:PRO:HG2	2.38	0.57
1:A:38:ASN:O	1:A:39:PRO:C	2.40	0.57
2:C:571:LEU:HD23	2:C:700:TYR:HA	1.85	0.57
2:C:1013:TYR:CE1	2:C:1020:PRO:HG3	2.39	0.57
2:C:1062:GLY:O	2:C:1063:ARG:C	2.41	0.57
3:D:55:ASP:CA	3:D:82:LYS:HG2	2.32	0.57
3:D:1015:TYR:O	3:D:1017:PHE:N	2.37	0.57
3:D:1043:GLY:HA2	3:D:1057:VAL:H	1.69	0.57
3:D:1112:CYS:HB3	3:D:1195:GLN:OE1	2.04	0.57
3:D:1432:LYS:NZ	3:D:1460:ILE:HB	2.18	0.57
4:E:38:THR:HB	4:E:63:TRP:HZ3	1.69	0.57
4:E:51:LEU:HD12	4:E:52:GLU:N	2.19	0.57
1:L:86:VAL:CG1	1:L:124:ASN:HD22	2.15	0.57
2:M:11:GLU:O	2:M:13:ILE:N	2.37	0.57
2:M:129:ILE:N	2:M:129:ILE:HD12	2.19	0.57
2:M:172:ILE:H	2:M:172:ILE:CD1	2.05	0.57
3:N:632:VAL:O	3:N:727:GLN:HA	2.04	0.57
1:A:1:MET:CB	1:A:6:LEU:HB2	2.34	0.57
1:A:131:THR:C	1:A:132:LEU:HD12	2.25	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:137:VAL:O	2:C:391:LEU:HD11	2.04	0.57
2:C:976:ASP:O	2:C:978:ARG:N	2.37	0.57
3:D:388:HIS:NE2	5:F:94:LEU:HG	2.19	0.57
3:D:970:LYS:HA	3:D:973:GLN:NE2	2.18	0.57
3:D:1229:ILE:HD11	3:D:1367:HIS:C	2.25	0.57
3:D:1494:ALA:HA	3:D:1497:GLU:HG2	1.87	0.57
5:F:287:THR:C	5:F:289:GLU:H	2.07	0.57
1:K:6:LEU:C	1:K:8:ALA:H	2.06	0.57
2:M:534:VAL:H	2:M:538:GLN:NE2	2.03	0.57
2:M:1050:GLN:O	2:M:1053:LEU:N	2.35	0.57
2:M:1067:TYR:O	2:M:1071:ILE:HG12	2.04	0.57
3:N:523:ASP:O	3:N:526:PRO:HG3	2.04	0.57
1:A:43:ILE:HD11	1:B:35:THR:CG2	2.25	0.57
1:A:198:ARG:C	1:A:199:ILE:HD12	2.25	0.57
3:D:15:PRO:O	3:D:19:ARG:HG3	2.04	0.57
3:D:34:TYR:HE2	5:F:260:ILE:HG13	1.70	0.57
3:D:994:GLN:NE2	3:D:998:GLU:CD	2.57	0.57
2:M:86:LYS:O	2:M:88:LEU:N	2.33	0.57
2:M:350:ARG:HG2	2:M:350:ARG:NH1	2.19	0.57
2:M:625:LEU:O	2:M:627:ARG:N	2.36	0.57
2:M:838:LYS:CG	2:M:997:LEU:HB2	2.34	0.57
2:M:863:ASP:CG	2:M:865:THR:HG22	2.24	0.57
3:N:631:ILE:HD13	3:N:745:MET:HG3	1.87	0.57
3:N:660:LYS:HA	3:N:663:GLU:OE2	2.04	0.57
3:N:879:ARG:HB3	3:N:902:LEU:HB2	1.86	0.57
3:N:989:TYR:CE2	3:N:1243:THR:HG21	2.38	0.57
3:N:1144:LEU:HD11	3:N:1186:VAL:HG21	1.87	0.57
3:N:1229:ILE:HD11	3:N:1368:ILE:HA	1.86	0.57
5:P:361:LEU:CD2	5:P:408:LEU:HB2	2.24	0.57
1:A:32:PHE:C	1:A:34:VAL:N	2.58	0.57
1:A:67:THR:HG21	2:C:609:ASN:ND2	2.20	0.57
2:C:198:ARG:O	2:C:198:ARG:HD3	2.04	0.57
3:D:1372:VAL:HA	3:D:1375:MET:HE3	1.86	0.57
2:M:368:THR:HB	2:M:369:PRO:CD	2.33	0.57
2:M:605:LYS:O	2:M:611:ILE:HA	2.04	0.57
2:M:1030:GLN:HB2	3:N:626:SER:HB3	1.85	0.57
3:N:136:ASP:HB3	3:N:137:PRO:CD	2.27	0.57
3:N:227:LEU:H	3:N:227:LEU:HD13	1.69	0.57
3:N:810:GLU:O	3:N:813:LEU:HG	2.04	0.57
5:P:88:ILE:HG21	5:P:193:ARG:HH11	1.68	0.57
1:B:101:LEU:HD23	1:B:101:LEU:C	2.24	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:564:MET:CE	2:C:846:LYS:HE2	2.34	0.57
3:D:1109:GLU:HG2	3:D:1201:CYS:CB	2.33	0.57
1:K:63:HIS:HD2	1:K:65:PHE:H	1.50	0.57
1:L:176:ARG:HH22	3:N:884:ARG:HD3	1.69	0.57
3:N:1364:HIS:CE1	3:N:1366:LYS:HG3	2.40	0.57
3:N:1385:GLY:HA2	3:N:1413:THR:HG21	1.86	0.57
3:N:1401:GLU:O	3:N:1405:GLU:HG2	2.05	0.57
4:O:88:GLU:O	4:O:92:ILE:HG12	2.04	0.57
5:P:151:LEU:HB2	5:P:155:THR:CB	2.34	0.57
1:A:23:PHE:O	1:A:196:THR:HA	2.05	0.57
1:A:44:LEU:O	1:A:174:VAL:HG21	2.05	0.57
2:C:265:ARG:CG	2:C:288:ARG:HG3	2.28	0.57
2:C:471:TYR:HE2	2:C:496:ILE:HG21	1.66	0.57
2:C:858:MET:HB2	2:C:859:PRO:HD2	1.87	0.57
2:C:1070:ILE:O	2:C:1073:GLY:N	2.37	0.57
3:D:220:ARG:HA	3:D:367:ILE:HG22	1.86	0.57
3:D:698:LYS:HA	3:D:756:GLN:NE2	2.20	0.57
3:D:792:ILE:HG21	3:D:941:PHE:CD1	2.40	0.57
3:D:970:LYS:HD2	3:D:995:LEU:HD13	1.87	0.57
5:F:94:LEU:HB2	5:F:98:GLU:OE1	2.04	0.57
5:F:358:LEU:HD21	5:F:370:LYS:NZ	2.19	0.57
1:K:39:PRO:HA	1:L:35:THR:HG23	1.86	0.57
1:K:39:PRO:HG3	1:L:39:PRO:CG	2.33	0.57
1:L:2:LEU:CD1	1:L:3:ASP:H	2.17	0.57
2:M:73:LEU:HD23	2:M:94:LEU:HA	1.86	0.57
2:M:77:PRO:HD3	2:M:93:PRO:CD	2.32	0.57
2:M:237:ARG:O	2:M:240:THR:HB	2.03	0.57
2:M:266:ARG:CG	2:M:273:GLY:HA3	2.34	0.57
2:M:462:ASP:OD2	2:M:466:PHE:HB2	2.04	0.57
2:M:641:PRO:O	2:M:642:ARG:HD3	2.04	0.57
3:N:116:LEU:CB	3:N:118:LEU:HD13	2.34	0.57
3:N:591:VAL:CA	3:N:600:LEU:HD21	2.33	0.57
3:N:948:THR:C	3:N:949:ILE:HG13	2.25	0.57
3:N:1489:GLN:HA	3:N:1489:GLN:HE21	1.70	0.57
4:O:36:LYS:C	4:O:38:THR:H	2.08	0.57
4:O:36:LYS:HE2	4:O:36:LYS:HA	1.86	0.57
4:O:54:LEU:HA	4:O:58:PRO:HG2	1.85	0.57
5:P:243:ILE:O	5:P:247:ILE:HG13	2.04	0.57
5:P:369:LEU:HB3	5:P:373:LYS:HD3	1.86	0.57
1:A:227:ASN:HD22	1:A:227:ASN:N	2.02	0.57
2:C:15:LEU:HD22	2:C:583:LEU:CD2	2.35	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:110:GLU:CG	2:C:369:PRO:HG3	2.30	0.57
2:C:160:ALA:HB3	2:C:174:LEU:HB2	1.87	0.57
2:C:279:GLU:OE2	2:C:489:THR:HG21	2.05	0.57
2:C:309:TYR:O	2:C:313:LEU:N	2.37	0.57
2:C:549:PHE:O	2:C:550:LEU:C	2.43	0.57
2:C:758:ARG:HG2	2:C:759:THR:N	2.20	0.57
2:C:895:TYR:HD2	2:C:896:PHE:CD1	2.23	0.57
2:C:1045:ALA:HA	3:D:758:GLU:OE2	2.05	0.57
3:D:216:VAL:HG12	3:D:217:LYS:H	1.68	0.57
3:D:1372:VAL:HG22	3:D:1375:MET:HE3	1.86	0.57
1:K:122:ILE:O	1:K:125:PRO:HD3	2.05	0.57
1:L:176:ARG:H	1:L:200:TRP:HB3	1.70	0.57
2:M:91:GLN:HE21	2:M:119:PRO:HG3	1.69	0.57
2:M:1085:PHE:O	2:M:1088:LEU:N	2.37	0.57
3:N:539:ASP:OD2	3:N:598:ARG:NH2	2.37	0.57
3:N:540:LEU:HA	3:N:543:LEU:CD1	2.35	0.57
3:N:679:ARG:HB2	3:N:682:ASP:OD1	2.05	0.57
3:N:1114:THR:HB	3:N:1195:GLN:HB2	1.86	0.57
3:N:1372:VAL:HA	3:N:1375:MET:HE2	1.86	0.57
5:P:273:ARG:O	5:P:276:ARG:HB2	2.04	0.57
1:B:107:LYS:O	1:B:132:LEU:HB2	2.05	0.57
2:C:129:ILE:O	2:C:130:ASN:OD1	2.22	0.57
2:C:291:ALA:O	2:C:292:ARG:HB2	2.03	0.57
2:C:470:PRO:HG3	2:C:485:TYR:CE2	2.40	0.57
2:C:606:VAL:HG11	2:C:643:VAL:O	2.05	0.57
3:D:10:ILE:HG22	3:D:1451:ALA:HA	1.85	0.57
3:D:960:LYS:HE3	3:D:1040:GLY:O	2.03	0.57
3:D:1264:GLU:O	3:D:1266:ARG:HD2	2.04	0.57
1:L:176:ARG:HH22	3:N:884:ARG:NE	2.03	0.57
2:M:92:ALA:HB2	2:M:120:LEU:HD11	1.86	0.57
3:N:44:LEU:CB	3:N:525:ARG:HH22	2.12	0.57
3:N:828:LYS:HD2	3:N:862:ASP:OD2	2.04	0.57
5:P:174:LEU:O	5:P:177:ALA:HB3	2.04	0.57
1:A:31:GLY:HA2	1:A:193:ASP:OD2	2.05	0.57
1:A:144:VAL:HG12	1:A:145:ASP:H	1.67	0.57
1:B:167:VAL:HG12	1:B:168:ASP:N	2.20	0.57
3:D:179:VAL:CG1	3:D:389:GLU:HG3	2.33	0.57
3:D:237:LYS:CB	3:D:238:PRO:HD3	2.35	0.57
3:D:432:TYR:HB3	3:D:448:GLU:HG2	1.86	0.57
5:F:138:SER:OG	5:F:140:ARG:HG2	2.05	0.57
2:M:46:ALA:O	2:M:50:GLU:HB2	2.05	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:211:LEU:HD11	2:M:308:ARG:HB2	1.86	0.57
3:N:104:PHE:HD2	3:N:104:PHE:N	2.03	0.57
3:N:714:GLN:HE22	3:N:732:VAL:CG1	2.17	0.57
3:N:892:ASP:OD2	3:N:895:VAL:HG21	2.05	0.57
3:N:1412:LYS:HG3	3:N:1412:LYS:O	2.04	0.57
5:P:79:ASP:HB3	5:P:80:PRO:HD3	1.87	0.57
5:P:302:LYS:HD2	5:P:302:LYS:C	2.26	0.57
1:B:75:VAL:O	1:B:79:ILE:HG12	2.05	0.56
2:C:713:ARG:HB3	2:C:713:ARG:HH11	1.68	0.56
2:C:855:VAL:HG13	2:C:856:GLU:N	2.20	0.56
3:D:109:PRO:O	3:D:111:LYS:N	2.38	0.56
3:D:1086:LEU:CD2	6:D:1525:STD:H113	2.33	0.56
3:D:1096:ARG:NH1	3:D:1096:ARG:HB2	2.20	0.56
3:D:1147:ARG:O	3:D:1166:LEU:N	2.32	0.56
5:F:278:LEU:HB3	5:F:286:PRO:HG3	1.87	0.56
1:K:13:VAL:CG1	1:K:14:ARG:N	2.68	0.56
1:K:87:VAL:HG21	1:K:144:VAL:HG11	1.86	0.56
2:M:135:VAL:HB	2:M:406:HIS:CE1	2.39	0.56
2:M:428:ARG:HE	2:M:449:ILE:HG23	1.70	0.56
2:M:473:ARG:HG2	2:M:473:ARG:HH11	1.68	0.56
2:M:715:THR:HG22	2:M:717:LEU:H	1.68	0.56
3:N:39:PRO:HG2	3:N:47:GLU:HG3	1.87	0.56
3:N:76:CYS:SG	3:N:76:CYS:O	2.62	0.56
3:N:104:PHE:N	3:N:104:PHE:CD2	2.72	0.56
3:N:177:ALA:O	3:N:199:LEU:HD13	2.05	0.56
3:N:568:ARG:O	3:N:570:GLU:N	2.38	0.56
3:N:1043:GLY:O	3:N:1056:PRO:HA	2.05	0.56
3:N:1108:ARG:NH2	3:N:1198:TYR:O	2.37	0.56
4:O:26:ARG:HH22	4:O:39:VAL:HG13	1.68	0.56
5:P:271:LEU:O	5:P:275:ALA:HB2	2.05	0.56
5:P:287:THR:CG2	5:P:290:GLU:HB2	2.35	0.56
1:A:13:VAL:HG12	1:A:14:ARG:H	1.70	0.56
1:A:142:VAL:HG23	1:A:142:VAL:O	2.05	0.56
2:C:813:VAL:CG2	2:C:815:LEU:HD13	2.35	0.56
2:C:1011:GLY:O	2:C:1013:TYR:CE2	2.58	0.56
3:D:475:LYS:HA	3:D:478:LEU:HD12	1.87	0.56
3:D:624:ASP:HB3	3:D:625:TYR:CD1	2.40	0.56
5:F:234:LYS:HD2	5:F:236:SER:H	1.69	0.56
1:L:216:GLU:OE2	1:L:219:ARG:NH2	2.38	0.56
2:M:878:SER:HB3	3:N:1029:ARG:NE	2.20	0.56
3:N:590:PRO:O	3:N:600:LEU:HG	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:P:196:VAL:HG13	5:P:213:ILE:CD1	2.35	0.56
2:C:51:THR:HB	2:C:348:LEU:HD23	1.86	0.56
2:C:95:TYR:HB3	2:C:113:VAL:C	2.25	0.56
2:C:452:ILE:HD12	2:C:452:ILE:N	2.20	0.56
2:C:829:GLN:CD	2:C:831:ARG:HD3	2.26	0.56
2:C:876:VAL:N	2:C:877:PRO:HD2	2.19	0.56
2:C:1031:ARG:HD3	3:D:619:LEU:HD21	1.87	0.56
3:D:131:LYS:HD3	5:F:83:GLN:NE2	2.21	0.56
3:D:160:GLU:HG2	3:D:165:LYS:HD3	1.88	0.56
3:D:218:LYS:HD3	3:D:371:ILE:H	1.68	0.56
4:E:54:LEU:CB	4:E:58:PRO:HG2	2.36	0.56
5:F:85:LEU:O	5:F:89:GLY:N	2.33	0.56
1:K:206:THR:HG22	1:K:209:GLU:HB2	1.87	0.56
2:M:52:PHE:O	2:M:54:ILE:N	2.38	0.56
2:M:288:ARG:NE	2:M:288:ARG:CA	2.69	0.56
2:M:1038:TRP:HA	2:M:1041:GLU:OE1	2.04	0.56
3:N:187:LYS:HZ3	3:N:212:ARG:HA	1.70	0.56
3:N:368:VAL:CG2	3:N:369:ALA:H	2.08	0.56
3:N:777:PRO:HD2	3:N:912:LYS:HG2	1.87	0.56
3:N:840:LYS:HD2	3:N:841:TYR:CZ	2.40	0.56
3:N:1396:GLU:HA	3:N:1399:ASP:CG	2.26	0.56
4:O:40:LEU:HD13	4:O:45:ARG:HD2	1.87	0.56
2:C:21:ILE:H	2:C:21:ILE:CD1	2.10	0.56
2:C:368:THR:HB	2:C:369:PRO:CD	2.30	0.56
2:C:525:SER:OG	2:C:528:GLU:HG3	2.04	0.56
2:C:690:ILE:HG22	2:C:691:SER:N	2.19	0.56
2:C:715:THR:HG22	2:C:716:LYS:N	2.20	0.56
3:D:493:ARG:NH1	3:D:493:ARG:HB2	2.19	0.56
3:D:675:ARG:NH2	5:F:420:ASP:HB3	2.21	0.56
3:D:1103:HIS:HD2	3:D:1462:LEU:H	1.54	0.56
4:E:26:ARG:NE	4:E:30:LEU:HD13	2.21	0.56
5:F:386:VAL:C	5:F:388:ALA:H	2.09	0.56
1:L:101:LEU:HB3	1:L:140:MET:SD	2.45	0.56
2:M:13:ILE:HG13	2:M:13:ILE:O	2.04	0.56
2:M:580:MET:HB3	2:M:584:GLU:OE1	2.05	0.56
2:M:917:LEU:HA	2:M:920:GLN:HG3	1.88	0.56
2:M:1045:ALA:HB2	3:N:763:MET:SD	2.45	0.56
2:M:1103:ASP:CG	2:M:1104:GLU:N	2.58	0.56
3:N:1217:ILE:HD12	3:N:1480:PHE:CE2	2.41	0.56
1:A:109:VAL:HG21	1:A:138:LEU:HD23	1.86	0.56
1:A:226:SER:O	1:A:228:PRO:HD3	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:19:THR:HG22	2:C:19:THR:O	2.04	0.56
2:C:300:ASP:C	2:C:302:VAL:H	2.08	0.56
2:C:516:ARG:HH11	2:C:521:PRO:CA	2.18	0.56
2:C:657:ASP:HB3	2:C:661:SER:HB2	1.87	0.56
3:D:232:GLU:HG3	3:D:232:GLU:O	2.05	0.56
3:D:537:THR:HG23	3:D:537:THR:O	2.04	0.56
3:D:650:LEU:HD13	3:D:688:TRP:HZ3	1.70	0.56
3:D:809:PRO:HB2	3:D:812:ALA:HB2	1.88	0.56
3:D:994:GLN:NE2	3:D:998:GLU:OE2	2.38	0.56
3:D:1503:VAL:O	3:D:1505:ALA:N	2.39	0.56
2:M:443:THR:HB	2:M:444:PRO:HD2	1.87	0.56
2:M:939:ARG:NH1	2:M:981:GLU:HG2	2.21	0.56
3:N:82:LYS:HZ2	5:P:339:PRO:HG2	1.70	0.56
3:N:1012:GLU:HG3	3:N:1021:TYR:OH	2.04	0.56
1:B:58:ILE:HG21	1:B:68:ILE:CD1	2.36	0.56
2:C:45:GLN:NE2	2:C:68:PHE:HE2	2.02	0.56
2:C:588:VAL:CG2	2:C:589:ARG:H	2.18	0.56
2:C:636:ALA:HB2	2:C:705:ILE:HD11	1.88	0.56
2:C:1033:GLY:O	2:C:1036:GLU:HB2	2.06	0.56
2:C:1043:TYR:CE1	3:D:710:ARG:O	2.59	0.56
3:D:806:PHE:CE1	3:D:809:PRO:O	2.58	0.56
3:D:1438:ALA:C	3:D:1440:PHE:H	2.09	0.56
2:M:44:ILE:N	2:M:44:ILE:HD12	2.20	0.56
2:M:722:ILE:CD1	2:M:823:VAL:HG21	2.35	0.56
2:M:750:LYS:HB2	3:N:681:ARG:NH2	2.21	0.56
2:M:755:LEU:O	2:M:756:VAL:CG2	2.54	0.56
2:M:881:ASN:HD22	2:M:881:ASN:N	2.04	0.56
2:M:978:ARG:HH11	2:M:978:ARG:HG3	1.70	0.56
3:N:844:ALA:O	3:N:867:ARG:HB3	2.06	0.56
3:N:1042:ARG:NH1	3:N:1045:MET:SD	2.70	0.56
3:N:1148:VAL:O	3:N:1188:VAL:HG23	2.04	0.56
3:N:1493:LYS:O	3:N:1497:GLU:HG2	2.04	0.56
5:P:160:ASP:HA	5:P:163:LEU:HD12	1.87	0.56
1:B:54:THR:CG2	1:B:143:ARG:HG2	2.36	0.56
2:C:211:LEU:HD13	2:C:304:LEU:HD11	1.88	0.56
2:C:276:LYS:H	2:C:276:LYS:HD2	1.71	0.56
2:C:838:LYS:O	2:C:839:LEU:HD23	2.05	0.56
3:D:592:THR:OG1	3:D:600:LEU:HD21	2.05	0.56
3:D:1237:THR:HG22	3:D:1238:MET:N	2.21	0.56
5:F:156:VAL:HG23	5:F:157:GLU:H	1.71	0.56
2:M:97:ARG:HH21	2:M:109:LYS:NZ	2.03	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:878:SER:HB3	3:N:1029:ARG:CD	2.35	0.56
3:N:1295:GLU:HB3	3:N:1300:SER:HA	1.86	0.56
5:P:398:ARG:HD3	5:P:399:GLN:HG2	1.85	0.56
2:C:615:TYR:HB3	2:C:617:ASP:OD2	2.06	0.56
3:D:85:VAL:HB	3:D:89:ARG:NE	2.21	0.56
3:D:571:LYS:HB2	3:D:571:LYS:HZ3	1.71	0.56
1:L:13:VAL:HG13	1:L:22:GLU:O	2.05	0.56
2:M:194:VAL:HG21	2:M:221:LEU:HA	1.88	0.56
2:M:313:LEU:C	2:M:315:ALA:H	2.09	0.56
2:M:371:LYS:O	2:M:372:LEU:HD23	2.05	0.56
2:M:549:PHE:HA	2:M:551:GLU:OE2	2.05	0.56
2:M:676:ILE:O	2:M:676:ILE:HG23	2.06	0.56
2:M:839:LEU:HD21	2:M:849:VAL:CG2	2.36	0.56
2:M:974:LEU:HB3	2:M:983:ILE:HG13	1.87	0.56
2:M:1005:MET:HG3	2:M:1005:MET:O	2.05	0.56
3:N:183:GLU:OE2	3:N:216:VAL:HG13	2.06	0.56
3:N:1267:ARG:HA	3:N:1331:ASP:OD2	2.06	0.56
5:P:134:LYS:O	5:P:178:ARG:HD3	2.04	0.56
5:P:287:THR:HG23	5:P:290:GLU:H	1.71	0.56
1:A:44:LEU:HA	1:A:48:ILE:HD11	1.86	0.56
1:B:62:LEU:H	1:B:62:LEU:HD12	1.71	0.56
2:C:116:GLY:HA2	2:C:379:GLU:CD	2.26	0.56
2:C:676:ILE:HG23	2:C:988:VAL:HG13	1.88	0.56
2:C:874:LEU:HD23	3:D:1023:MET:SD	2.45	0.56
3:D:78:VAL:C	3:D:79:GLU:O	2.42	0.56
3:D:173:PRO:HG2	3:D:200:ASP:HB3	1.88	0.56
3:D:1273:VAL:CG2	3:D:1305:LEU:HD21	2.36	0.56
4:E:9:LEU:HB3	4:E:19:LEU:CD2	2.34	0.56
5:F:84:TYR:HB3	5:F:88:ILE:CD1	2.35	0.56
5:F:345:ALA:O	5:F:348:SER:HB3	2.05	0.56
2:M:77:PRO:CD	2:M:93:PRO:HD3	2.32	0.56
2:M:1055:LEU:HD21	2:M:1079:PRO:HG3	1.87	0.56
2:M:1071:ILE:O	3:N:659:LYS:HD3	2.05	0.56
2:M:1105:LYS:O	2:M:1107:ASN:N	2.39	0.56
3:N:32:ILE:HG22	3:N:33:ASN:N	2.21	0.56
3:N:84:ILE:C	3:N:86:ARG:H	2.08	0.56
1:A:91:ASN:CG	1:A:92:PRO:HD2	2.26	0.56
2:C:199:VAL:O	2:C:199:VAL:HG12	2.06	0.56
2:C:816:LYS:HE2	2:C:819:VAL:HG21	1.87	0.56
2:C:881:ASN:H	2:C:881:ASN:ND2	2.04	0.56
3:D:63:TYR:O	3:D:64:LYS:HG3	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:711:LEU:HG	3:D:778:LEU:HD23	1.87	0.56
3:D:820:GLU:HG3	3:D:836:VAL:CG2	2.35	0.56
3:D:1020:LEU:HA	3:D:1023:MET:CE	2.35	0.56
3:D:1335:LEU:O	3:D:1335:LEU:HD23	2.06	0.56
3:D:1404:ASN:ND2	3:D:1408:ILE:HD12	2.21	0.56
5:F:184:ARG:O	5:F:188:ILE:HG13	2.06	0.56
1:K:23:PHE:HB2	1:K:197:LEU:HD23	1.87	0.56
2:M:256:TYR:CZ	2:M:293:PHE:HB2	2.41	0.56
2:M:470:PRO:O	2:M:471:TYR:CG	2.59	0.56
2:M:666:LEU:HG	2:M:668:LEU:HD11	1.86	0.56
2:M:1036:GLU:HG3	3:N:703:ASN:OD1	2.06	0.56
3:N:984:THR:HG22	3:N:987:GLU:CB	2.26	0.56
3:N:1048:PRO:O	3:N:1049:SER:O	2.24	0.56
1:A:64:GLU:O	1:A:76:VAL:HG22	2.06	0.55
1:A:99:LEU:N	1:A:99:LEU:CD1	2.68	0.55
1:A:100:LEU:HB2	1:A:115:LEU:HD11	1.88	0.55
3:D:47:GLU:HA	3:D:51:GLY:O	2.05	0.55
3:D:57:GLU:HG3	3:D:64:LYS:HG2	1.88	0.55
3:D:1264:GLU:O	3:D:1265:ALA:C	2.44	0.55
4:E:39:VAL:HG22	4:E:67:GLU:CD	2.26	0.55
1:K:39:PRO:HG3	1:L:39:PRO:HG3	1.88	0.55
2:M:89:THR:HG23	2:M:129:ILE:HA	1.87	0.55
2:M:1003:ASP:O	2:M:1005:MET:N	2.39	0.55
2:M:1063:ARG:O	2:M:1066:ALA:HB3	2.06	0.55
3:N:162:ARG:HB2	3:N:434:ARG:HH21	1.71	0.55
3:N:820:GLU:HG2	3:N:825:ALA:O	2.05	0.55
1:A:1:MET:O	1:A:6:LEU:HD22	2.05	0.55
1:A:97:VAL:HG12	1:A:98:THR:N	2.21	0.55
1:B:206:THR:N	1:B:209:GLU:OE1	2.34	0.55
2:C:233:GLU:OE1	2:C:237:ARG:HB2	2.07	0.55
2:C:949:LYS:HE2	3:D:828:LYS:NZ	2.22	0.55
2:C:1003:ASP:O	2:C:1005:MET:N	2.39	0.55
2:C:1096:ALA:O	3:D:13:ALA:HB3	2.06	0.55
3:D:8:VAL:HG12	3:D:1434:TRP:HH2	1.71	0.55
3:D:374:GLU:CG	3:D:386:HIS:HA	2.35	0.55
3:D:605:ASP:OD1	3:D:605:ASP:N	2.37	0.55
3:D:651:GLU:OE1	3:D:654:LYS:HD2	2.05	0.55
3:D:659:LYS:O	3:D:659:LYS:HD3	2.05	0.55
3:D:902:LEU:H	3:D:902:LEU:CD2	2.14	0.55
3:D:1146:GLY:HA3	3:D:1207:TYR:CB	2.37	0.55
5:F:366:ALA:HB3	5:F:367:MET:HE2	1.87	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:57:TYR:O	1:L:140:MET:HB2	2.06	0.55
1:L:156:HIS:ND1	1:L:158:ILE:HG12	2.21	0.55
2:M:114:PHE:CE1	5:P:283:GLY:HA3	2.42	0.55
2:M:146:VAL:HG12	2:M:162:ILE:HG12	1.87	0.55
2:M:428:ARG:HE	2:M:449:ILE:CG2	2.19	0.55
2:M:572:ILE:HD11	2:M:701:THR:HB	1.86	0.55
2:M:876:VAL:HB	2:M:877:PRO:CD	2.34	0.55
2:M:922:PHE:CE2	2:M:964:LYS:HB2	2.40	0.55
2:M:963:LEU:O	2:M:967:PHE:HB2	2.06	0.55
3:N:186:VAL:HG13	3:N:187:LYS:N	2.20	0.55
3:N:645:PRO:O	3:N:648:MET:N	2.39	0.55
3:N:854:ALA:C	3:N:856:GLY:H	2.08	0.55
3:N:1278:ASP:HB3	3:N:1321:ALA:N	2.22	0.55
5:P:184:ARG:HH21	5:P:221:ILE:CG2	2.19	0.55
1:A:67:THR:HG22	2:C:627:ARG:CZ	2.37	0.55
1:B:86:VAL:HG12	1:B:124:ASN:CG	2.25	0.55
2:C:1058:ASP:OD2	2:C:1083:GLU:HB2	2.06	0.55
3:D:866:VAL:HG12	3:D:867:ARG:N	2.19	0.55
3:D:1191:PRO:HG3	3:D:1204:CYS:O	2.06	0.55
5:F:164:LYS:HA	5:F:171:LYS:NZ	2.21	0.55
1:K:79:ILE:O	1:K:83:LYS:HG3	2.07	0.55
2:M:170:PRO:HB3	2:M:172:ILE:HD11	1.87	0.55
2:M:745:ILE:HD13	2:M:745:ILE:H	1.71	0.55
3:N:209:ARG:HB3	3:N:396:VAL:O	2.07	0.55
3:N:426:LYS:HD3	5:P:134:LYS:HA	1.88	0.55
3:N:669:ASN:HD21	3:N:671:LYS:HB2	1.71	0.55
3:N:1307:LYS:O	3:N:1309:ALA:N	2.37	0.55
1:A:41:ARG:HG3	1:A:177:VAL:HB	1.88	0.55
1:A:99:LEU:HB2	1:A:142:VAL:HG23	1.87	0.55
2:C:516:ARG:HH11	2:C:521:PRO:HB3	1.68	0.55
2:C:1024:LYS:NZ	2:C:1024:LYS:HB2	2.21	0.55
3:D:10:ILE:HG13	3:D:1434:TRP:CH2	2.41	0.55
3:D:1062:ARG:HH11	3:D:1062:ARG:CG	1.97	0.55
4:E:25:LYS:HA	4:E:28:GLN:CD	2.25	0.55
2:M:265:ARG:H	2:M:289:THR:HG21	1.72	0.55
3:N:214:GLU:HG2	3:N:215:TYR:CE1	2.41	0.55
3:N:675:ARG:HA	3:N:678:GLU:OE2	2.06	0.55
3:N:1115:THR:HG21	3:N:1151:ARG:HH21	1.71	0.55
5:P:134:LYS:HG3	5:P:160:ASP:OD2	2.05	0.55
2:C:167:LYS:O	2:C:167:LYS:HD3	2.06	0.55
2:C:572:ILE:HD11	2:C:701:THR:HB	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:683:ASN:ND2	2:C:872:ASN:HB2	2.22	0.55
2:C:715:THR:HG22	2:C:716:LYS:H	1.72	0.55
3:D:992:ILE:O	3:D:995:LEU:HB3	2.06	0.55
3:D:1175:ILE:O	3:D:1179:GLU:HG2	2.06	0.55
3:D:1264:GLU:HG2	3:D:1266:ARG:NE	2.21	0.55
3:D:1314:LYS:HD3	3:D:1314:LYS:N	2.22	0.55
1:L:42:ARG:HG2	1:L:42:ARG:HH1	1.71	0.55
2:M:548:PRO:CG	2:M:842:ARG:NH2	2.68	0.55
2:M:880:MET:HE1	3:N:1034:GLN:HG2	1.88	0.55
3:N:133:ILE:HG21	3:N:454:ALA:CB	2.30	0.55
3:N:560:GLN:HA	3:N:560:GLN:NE2	2.21	0.55
3:N:678:GLU:HG3	3:N:679:ARG:HG3	1.89	0.55
2:C:421:GLU:OE1	2:C:421:GLU:O	2.25	0.55
2:C:1070:ILE:HD11	3:D:751:LEU:HD22	1.88	0.55
3:D:129:PHE:H	3:D:129:PHE:HD1	1.54	0.55
3:D:138:LYS:H	3:D:138:LYS:HE3	1.72	0.55
3:D:400:VAL:HG13	3:D:442:ASN:O	2.05	0.55
3:D:401:TYR:N	3:D:402:PRO:HD3	2.21	0.55
5:F:300:ASP:CG	5:F:301:ALA:H	2.09	0.55
1:L:143:ARG:HD3	1:L:158:ILE:HG21	1.88	0.55
2:M:18:LEU:CA	2:M:408:ARG:HH21	2.18	0.55
2:M:1014:SER:HB3	2:M:1017:THR:HG23	1.88	0.55
3:N:701:LEU:HD21	3:N:763:MET:HE3	1.87	0.55
3:N:837:GLY:O	3:N:864:VAL:HA	2.07	0.55
3:N:1435:LEU:HD23	3:N:1464:GLU:HB2	1.88	0.55
1:A:42:ARG:NH1	2:C:978:ARG:HA	2.21	0.55
1:A:206:THR:HG22	1:A:209:GLU:N	2.18	0.55
1:A:219:ARG:HH1	1:A:219:ARG:CG	2.20	0.55
2:C:860:HIS:HE1	2:C:977:GLY:HA2	1.71	0.55
2:C:911:GLU:O	2:C:915:LYS:HG2	2.06	0.55
3:D:1063:GLU:CG	3:D:1064:GLY:N	2.70	0.55
3:D:1364:HIS:ND1	3:D:1365:ASP:N	2.54	0.55
5:F:209:PHE:O	5:F:213:ILE:HG13	2.06	0.55
5:F:235:PHE:O	5:F:236:SER:C	2.44	0.55
1:L:223:THR:C	1:L:225:PHE:H	2.09	0.55
2:M:1102:LEU:O	3:N:5:VAL:HA	2.07	0.55
3:N:10:ILE:O	3:N:1454:GLY:HA2	2.07	0.55
3:N:141:ILE:CG2	3:N:142:LEU:H	2.14	0.55
3:N:596:SER:C	3:N:598:ARG:H	2.09	0.55
3:N:654:LYS:O	3:N:657:LEU:HB3	2.07	0.55
3:N:1155:VAL:HG12	3:N:1156:LEU:N	2.22	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1192:LEU:HD11	3:N:1369:GLU:HG2	1.89	0.55
3:N:1209:LEU:HD23	3:N:1211:MET:SD	2.47	0.55
5:P:317:LEU:HA	5:P:329:TYR:HD2	1.72	0.55
5:P:319:THR:HG23	5:P:320:PRO:HD2	1.89	0.55
1:A:24:VAL:HA	1:A:196:THR:HB	1.88	0.55
2:C:1052:MET:HG3	3:D:623:VAL:HG22	1.88	0.55
2:C:1096:ALA:HB1	3:D:514:LEU:HD21	1.89	0.55
3:D:72:VAL:CG1	3:D:73:CYS:H	2.20	0.55
3:D:633:VAL:C	3:D:635:PRO:HD3	2.27	0.55
1:L:111:ALA:CB	1:L:127:LEU:HB3	2.34	0.55
1:L:216:GLU:OE2	1:L:219:ARG:CZ	2.54	0.55
2:M:393:GLN:NE2	2:M:406:HIS:NE2	2.55	0.55
2:M:437:ARG:O	2:M:467:ILE:HD13	2.07	0.55
2:M:557:ARG:HG3	2:M:844:GLY:HA3	1.89	0.55
2:M:899:GLN:HG3	2:M:899:GLN:O	2.07	0.55
2:M:918:LEU:HD23	2:M:968:LEU:HA	1.89	0.55
2:M:958:THR:HG23	2:M:961:GLU:HB2	1.89	0.55
3:N:32:ILE:HG21	3:N:37:LEU:HA	1.89	0.55
3:N:382:GLU:HG2	3:N:383:GLY:H	1.68	0.55
3:N:914:LEU:O	3:N:914:LEU:HD23	2.06	0.55
3:N:988:ARG:O	3:N:992:ILE:HG13	2.06	0.55
3:N:1472:ILE:HG22	3:N:1474:ALA:H	1.72	0.55
5:P:276:ARG:HG3	5:P:276:ARG:NH1	2.20	0.55
1:B:77:GLU:HB2	3:D:872:ARG:NH2	2.22	0.55
2:C:418:LEU:HD22	2:C:418:LEU:N	2.22	0.55
2:C:878:SER:O	2:C:880:MET:HG3	2.07	0.55
2:C:1083:GLU:OE2	3:D:87:ARG:NH1	2.38	0.55
2:C:1115:LEU:H	2:C:1115:LEU:CD1	2.11	0.55
3:D:152:LEU:N	3:D:152:LEU:HD23	2.21	0.55
3:D:423:ASP:CG	5:F:175:HIS:CE1	2.81	0.55
3:D:634:GLY:O	3:D:637:LEU:CB	2.55	0.55
2:M:602:GLU:HA	2:M:648:ARG:HA	1.89	0.55
2:M:679:PHE:HZ	2:M:978:ARG:NH1	2.04	0.55
3:N:535:PHE:O	5:P:315:VAL:N	2.37	0.55
3:N:709:HIS:NE2	3:N:711:LEU:HD12	2.22	0.55
3:N:880:ILE:O	3:N:883:ALA:HB3	2.06	0.55
3:N:1365:ASP:HB3	3:N:1369:GLU:OE2	2.06	0.55
5:P:134:LYS:HA	5:P:134:LYS:HE3	1.89	0.55
1:A:212:ASN:O	1:A:215:VAL:HG22	2.06	0.55
1:B:101:LEU:HD11	1:B:113:ASP:HB2	1.88	0.55
2:C:585:GLU:HG2	2:C:665:PHE:CD2	2.42	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:862:PRO:HG2	2:C:925:TYR:OH	2.07	0.55
3:D:127:LEU:CD2	3:D:461:ILE:HD11	2.36	0.55
3:D:225:LEU:H	3:D:225:LEU:HD22	1.72	0.55
3:D:477:LEU:HD11	3:D:495:ARG:HD3	1.89	0.55
3:D:653:PHE:CZ	3:D:695:ILE:HD11	2.41	0.55
3:D:857:ILE:HG22	3:D:858:VAL:CG2	2.36	0.55
5:F:79:ASP:HB3	5:F:80:PRO:CD	2.30	0.55
5:F:234:LYS:HD2	5:F:236:SER:CB	2.37	0.55
1:L:45:LEU:HD21	1:L:177:VAL:HG23	1.89	0.55
2:M:704:HIS:HB2	2:M:831:ARG:NH2	2.21	0.55
2:M:756:VAL:O	2:M:789:SER:HB3	2.06	0.55
2:M:913:GLU:O	2:M:916:GLU:HB3	2.07	0.55
2:M:987:ILE:HG23	3:N:948:THR:CG2	2.34	0.55
2:M:1043:TYR:CD2	3:N:763:MET:HG3	2.41	0.55
3:N:465:LEU:O	3:N:468:LEU:HG	2.07	0.55
3:N:658:LEU:HD11	3:N:674:ARG:NH1	2.22	0.55
3:N:699:VAL:H	3:N:756:GLN:HE22	1.54	0.55
3:N:786:ILE:CG2	3:N:1026:SER:HB2	2.37	0.55
3:N:1155:VAL:HG21	3:N:1183:ILE:HD11	1.89	0.55
3:N:1192:LEU:HD22	3:N:1345:GLU:OE2	2.07	0.55
3:N:1372:VAL:HG13	3:N:1375:MET:CE	2.37	0.55
5:P:358:LEU:HD21	5:P:370:LYS:HZ2	1.70	0.55
2:C:487:THR:HG22	2:C:488:ALA:N	2.22	0.54
2:C:1105:LYS:HB2	2:C:1107:ASN:HD22	1.72	0.54
3:D:218:LYS:CD	3:D:372:ASP:OD1	2.54	0.54
3:D:728:LEU:HD11	3:D:732:VAL:HG21	1.88	0.54
1:K:181:VAL:HG12	2:M:938:LYS:HD2	1.89	0.54
2:M:51:THR:O	2:M:51:THR:HG22	2.06	0.54
2:M:197:LEU:HD13	2:M:207:LEU:HD11	1.87	0.54
2:M:376:ARG:HE	2:M:376:ARG:HA	1.73	0.54
2:M:524:VAL:HG22	2:M:525:SER:N	2.23	0.54
2:M:940:GLU:HG3	2:M:973:VAL:HG21	1.88	0.54
3:N:179:VAL:HG21	3:N:217:LYS:CE	2.37	0.54
3:N:231:VAL:CA	3:N:378:ILE:HG12	2.37	0.54
3:N:1393:GLN:HB2	3:N:1398:TRP:CE2	2.41	0.54
5:P:101:GLU:O	5:P:104:ARG:HB3	2.07	0.54
5:P:156:VAL:HG13	5:P:157:GLU:N	2.21	0.54
1:A:101:LEU:HD11	1:A:109:VAL:CG1	2.37	0.54
1:A:144:VAL:O	1:A:145:ASP:OD1	2.26	0.54
3:D:945:SER:CB	3:D:947:ILE:HG23	2.37	0.54
3:D:1310:ARG:CG	3:D:1327:ARG:HB3	2.33	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:E:54:LEU:HA	4:E:58:PRO:CD	2.37	0.54
1:L:222:LEU:O	1:L:225:PHE:HD1	1.89	0.54
2:M:111:ASP:HB3	2:M:112:GLU:OE2	2.08	0.54
2:M:118:ILE:HG13	2:M:118:ILE:O	2.07	0.54
2:M:370:ALA:CB	5:P:280:GLN:HG3	2.37	0.54
2:M:876:VAL:O	2:M:877:PRO:C	2.44	0.54
3:N:95:LEU:HD12	3:N:515:GLU:CA	2.38	0.54
3:N:422:ALA:CB	3:N:427:VAL:HG22	2.33	0.54
3:N:653:PHE:CE2	3:N:695:ILE:HD12	2.43	0.54
3:N:703:ASN:ND2	3:N:713:ILE:HG12	2.22	0.54
3:N:840:LYS:HB2	3:N:840:LYS:NZ	2.22	0.54
3:N:1486:VAL:CG1	4:O:73:LEU:HD22	2.37	0.54
5:P:138:SER:O	5:P:141:VAL:HG23	2.06	0.54
5:P:411:HIS:HA	5:P:414:ARG:HH21	1.72	0.54
1:B:156:HIS:CD2	1:B:156:HIS:H	2.26	0.54
2:C:41:ASN:HA	2:C:45:GLN:HB3	1.89	0.54
2:C:939:ARG:HA	2:C:939:ARG:HE	1.72	0.54
2:C:1007:ALA:O	2:C:1027:PHE:CD2	2.61	0.54
3:D:85:VAL:O	3:D:89:ARG:HD2	2.06	0.54
3:D:728:LEU:HD22	3:D:745:MET:HE2	1.87	0.54
3:D:974:ILE:HD13	3:D:991:GLN:HB3	1.90	0.54
3:D:1196:THR:O	3:D:1197:ARG:O	2.26	0.54
5:F:91:VAL:N	5:F:92:PRO:HD3	2.22	0.54
5:F:148:LYS:HB2	5:F:148:LYS:NZ	2.23	0.54
1:K:176:ARG:NH1	2:M:863:ASP:HB2	2.22	0.54
2:M:44:ILE:HD12	2:M:44:ILE:H	1.71	0.54
2:M:1060:ILE:CG1	2:M:1083:GLU:HG3	2.31	0.54
4:O:41:GLU:O	4:O:43:GLU:N	2.40	0.54
5:P:278:LEU:CB	5:P:286:PRO:HG2	2.37	0.54
1:B:150:TYR:H	3:D:855:HIS:CE1	2.25	0.54
2:C:174:LEU:HD23	2:C:184:MET:HG3	1.89	0.54
2:C:773:LEU:O	2:C:777:ILE:HG13	2.08	0.54
2:C:805:ARG:O	2:C:806:LEU:HD23	2.08	0.54
3:D:99:ALA:O	3:D:514:LEU:HB2	2.07	0.54
3:D:1047:LYS:HB3	3:D:1048:PRO:CD	2.37	0.54
3:D:1307:LYS:HD3	3:D:1307:LYS:N	2.23	0.54
3:D:1393:GLN:HB2	3:D:1398:TRP:HE1	1.72	0.54
5:F:396:ARG:HA	5:F:399:GLN:HB2	1.89	0.54
1:L:102:LYS:HA	1:L:138:LEU:O	2.08	0.54
2:M:501:THR:HG22	2:M:513:VAL:HG12	1.89	0.54
2:M:578:VAL:O	2:M:900:ARG:HB3	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:599:GLU:HA	2:M:651:LYS:HA	1.88	0.54
2:M:1035:MET:HA	2:M:1038:TRP:CE3	2.42	0.54
3:N:399:ARG:HB2	3:N:402:PRO:HG3	1.87	0.54
3:N:423:ASP:OD2	5:P:178:ARG:HB2	2.07	0.54
3:N:728:LEU:HD22	3:N:745:MET:SD	2.47	0.54
3:N:1466:VAL:O	3:N:1467:ILE:C	2.45	0.54
5:P:196:VAL:O	5:P:200:LYS:HG3	2.06	0.54
1:A:144:VAL:CG1	1:A:145:ASP:N	2.71	0.54
2:C:413:LEU:H	2:C:413:LEU:CD1	2.00	0.54
2:C:484:VAL:O	2:C:484:VAL:HG12	2.07	0.54
3:D:186:VAL:HG21	3:D:213:VAL:H	1.72	0.54
3:D:478:LEU:HD22	3:D:1388:ARG:NH2	2.23	0.54
3:D:586:ARG:HH12	3:D:1444:THR:HG21	1.72	0.54
3:D:650:LEU:HD22	3:D:688:TRP:HH2	1.71	0.54
3:D:826:PRO:O	3:D:836:VAL:CG1	2.55	0.54
3:D:949:ILE:HA	3:D:953:ASP:OD1	2.07	0.54
5:F:278:LEU:HD13	5:F:286:PRO:HB3	1.90	0.54
5:F:368:VAL:HG21	5:F:389:PHE:CE1	2.42	0.54
1:L:62:LEU:CD1	1:L:63:HIS:H	2.20	0.54
1:L:133:GLU:HG3	1:L:134:GLU:H	1.73	0.54
2:M:54:ILE:HG22	2:M:66:LEU:HB3	1.88	0.54
2:M:265:ARG:CG	2:M:288:ARG:HG3	2.32	0.54
2:M:521:PRO:HG3	3:N:1068:LEU:CD2	2.36	0.54
2:M:841:ASN:ND2	2:M:843:HIS:H	2.06	0.54
3:N:373:PRO:HB2	3:N:374:GLU:OE2	2.08	0.54
3:N:481:MET:HE1	3:N:1389:LEU:HD21	1.89	0.54
3:N:571:LYS:HB2	3:N:571:LYS:NZ	2.23	0.54
3:N:625:TYR:CB	3:N:749:VAL:HG23	2.37	0.54
1:A:36:LEU:O	1:A:39:PRO:HD2	2.08	0.54
2:C:200:LEU:HD22	2:C:300:ASP:OD1	2.07	0.54
2:C:250:ARG:HB3	2:C:253:ALA:HB2	1.88	0.54
2:C:498:GLN:O	2:C:501:THR:HG23	2.07	0.54
2:C:520:GLU:O	2:C:522:VAL:HG23	2.08	0.54
2:C:1034:GLU:HB3	3:D:618:LEU:O	2.08	0.54
3:D:245:LEU:HB3	3:D:366:LYS:HE2	1.88	0.54
1:K:89:PHE:CZ	1:K:97:VAL:HG23	2.43	0.54
2:M:370:ALA:HB2	5:P:280:GLN:HG3	1.89	0.54
2:M:594:ALA:HB3	2:M:596:TYR:CE1	2.43	0.54
2:M:848:VAL:CG1	3:N:632:VAL:HG22	2.36	0.54
3:N:912:LYS:HB3	3:N:912:LYS:HZ3	1.72	0.54
3:N:1252:ILE:HG22	3:N:1253:THR:N	2.22	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:P:94:LEU:HB2	5:P:98:GLU:HG3	1.89	0.54
1:B:34:VAL:O	1:B:36:LEU:N	2.40	0.54
2:C:405:ARG:HH12	2:C:563:ASN:ND2	2.06	0.54
2:C:586:ARG:HD3	2:C:590:ASP:OD2	2.08	0.54
2:C:599:GLU:HG2	2:C:600:ASP:H	1.72	0.54
2:C:837:ASP:OD1	2:C:996:LYS:HE3	2.08	0.54
3:D:445:ARG:CD	3:D:445:ARG:H	2.20	0.54
3:D:452:ILE:HG23	3:D:452:ILE:O	2.08	0.54
3:D:570:GLU:OE2	5:F:214:GLN:HG3	2.07	0.54
3:D:573:MET:SD	5:F:210:LEU:HB3	2.48	0.54
3:D:670:VAL:O	3:D:673:ALA:N	2.41	0.54
3:D:1150:ALA:C	3:D:1151:ARG:HG2	2.28	0.54
3:D:1441:GLN:CA	3:D:1441:GLN:HE21	2.19	0.54
1:K:41:ARG:NH2	2:M:860:HIS:ND1	2.55	0.54
1:L:32:PHE:O	1:L:33:GLY:C	2.44	0.54
2:M:154:ARG:NH1	2:M:157:ARG:H	2.06	0.54
2:M:172:ILE:HD12	2:M:172:ILE:N	2.10	0.54
2:M:193:LEU:O	2:M:193:LEU:HD13	2.08	0.54
2:M:501:THR:HB	2:M:513:VAL:HG11	1.89	0.54
2:M:564:MET:CE	2:M:846:LYS:HD2	2.38	0.54
2:M:1016:ILE:HD13	2:M:1016:ILE:N	2.04	0.54
2:M:1094:ALA:HB2	3:N:520:LEU:CD1	2.38	0.54
3:N:493:ARG:HE	3:N:1389:LEU:CD2	2.21	0.54
3:N:892:ASP:HB3	3:N:895:VAL:HB	1.90	0.54
4:O:40:LEU:HB2	4:O:45:ARG:CZ	2.38	0.54
2:C:838:LYS:HB2	2:C:997:LEU:HD12	1.88	0.54
2:C:1014:SER:OG	2:C:1016:ILE:HG12	2.08	0.54
2:C:1086:ARG:NH1	3:D:88:TYR:CE1	2.76	0.54
3:D:473:LEU:O	3:D:476:GLU:HB3	2.08	0.54
3:D:646:LYS:CG	3:D:647:ARG:H	2.20	0.54
3:D:996:TRP:CD1	3:D:1056:PRO:HG2	2.43	0.54
3:D:1065:LEU:CD1	3:D:1069:GLU:HB3	2.37	0.54
3:D:1066:THR:OG1	3:D:1069:GLU:HB2	2.07	0.54
3:D:1107:VAL:HG11	3:D:1217:ILE:HA	1.87	0.54
3:D:1484:THR:HG22	3:D:1485:GLN:N	2.23	0.54
1:K:13:VAL:CG1	1:K:14:ARG:H	2.21	0.54
3:N:240:GLU:HG3	3:N:243:ALA:HB3	1.90	0.54
3:N:388:HIS:HB2	5:P:94:LEU:HD21	1.89	0.54
3:N:470:LEU:HD22	3:N:499:VAL:HG13	1.89	0.54
3:N:1436:SER:OG	3:N:1464:GLU:HB3	2.08	0.54
5:P:222:ARG:O	5:P:225:GLU:HB3	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:138:LEU:HD23	1:B:138:LEU:C	2.28	0.54
2:C:64:LEU:HD22	2:C:359:MET:CE	2.38	0.54
2:C:355:VAL:HG23	2:C:372:LEU:O	2.08	0.54
2:C:691:SER:HB3	2:C:868:ASP:HA	1.88	0.54
2:C:939:ARG:HD3	2:C:982:PRO:CG	2.38	0.54
2:C:944:LEU:HD11	2:C:963:LEU:HD21	1.90	0.54
2:C:1052:MET:HE3	3:D:623:VAL:HG11	1.89	0.54
3:D:702:LEU:HA	3:D:746:ALA:O	2.08	0.54
3:D:766:ALA:HB1	4:E:2:ALA:HB2	1.89	0.54
3:D:1358:ALA:C	3:D:1359:GLN:HG2	2.28	0.54
3:D:1365:ASP:O	3:D:1369:GLU:HG3	2.07	0.54
3:D:1437:ALA:O	3:D:1446:VAL:HG21	2.08	0.54
1:K:64:GLU:HB2	1:K:165:ILE:HG21	1.90	0.54
2:M:44:ILE:HD11	2:M:340:MET:HE3	1.88	0.54
2:M:573:ARG:HG3	2:M:698:ASP:O	2.07	0.54
2:M:959:PRO:O	2:M:963:LEU:HG	2.08	0.54
2:M:1101:THR:OG1	2:M:1109:VAL:O	2.26	0.54
3:N:137:PRO:HG2	3:N:453:ASP:CB	2.38	0.54
3:N:1213:ARG:CB	3:N:1214:PRO:HD2	2.28	0.54
5:P:371:LEU:HD23	5:P:375:LEU:HD13	1.89	0.54
1:B:176:ARG:HH22	3:D:884:ARG:HD3	1.73	0.54
1:B:184:THR:O	1:B:190:THR:O	2.26	0.54
2:C:615:TYR:HD1	2:C:619:ARG:NH2	2.05	0.54
2:C:626:ARG:HB3	2:C:629:TYR:CD1	2.43	0.54
3:D:133:ILE:CG2	3:D:454:ALA:HB1	2.38	0.54
3:D:367:ILE:HG23	3:D:368:VAL:N	2.23	0.54
3:D:423:ASP:O	3:D:425:GLY:N	2.41	0.54
3:D:528:VAL:CG2	3:D:536:ALA:HB3	2.29	0.54
5:F:113:ILE:HG23	5:F:127:ILE:HG21	1.89	0.54
1:K:176:ARG:HD3	2:M:864:GLY:HA3	1.88	0.54
2:M:95:TYR:CZ	2:M:114:PHE:HB3	2.43	0.54
2:M:97:ARG:HH21	2:M:109:LYS:HZ2	1.56	0.54
2:M:129:ILE:CG2	2:M:130:ASN:H	2.10	0.54
2:M:181:VAL:HG12	2:M:182:VAL:N	2.23	0.54
2:M:480:THR:HG22	2:M:482:GLU:N	2.23	0.54
2:M:578:VAL:HA	2:M:900:ARG:HD3	1.88	0.54
2:M:757:GLY:HA2	2:M:789:SER:CB	2.38	0.54
2:M:878:SER:HB3	3:N:1029:ARG:HD3	1.90	0.54
3:N:130:SER:O	3:N:131:LYS:HB2	2.07	0.54
3:N:890:VAL:O	3:N:892:ASP:N	2.41	0.54
3:N:920:LEU:H	3:N:920:LEU:HD12	1.72	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1068:LEU:CD2	3:N:1072:ILE:HD13	2.37	0.54
3:N:1135:ARG:CB	3:N:1135:ARG:HH11	2.21	0.54
3:N:1378:TYR:CE2	3:N:1394:VAL:HG22	2.43	0.54
3:N:1496:GLU:O	3:N:1500:LYS:HG3	2.08	0.54
5:P:274:THR:O	5:P:278:LEU:HG	2.08	0.54
1:A:17:GLY:C	1:A:19:GLU:H	2.11	0.53
2:C:204:GLN:OE1	2:C:222:MET:HA	2.08	0.53
2:C:691:SER:CB	2:C:868:ASP:HA	2.39	0.53
2:C:725:ASP:O	2:C:727:PRO:HD3	2.08	0.53
2:C:1030:GLN:HE22	3:D:628:ARG:HE	1.56	0.53
3:D:245:LEU:HD12	3:D:366:LYS:HE2	1.90	0.53
3:D:697:GLY:HA3	4:E:59:ASN:OD1	2.08	0.53
3:D:1363:LEU:HD12	3:D:1363:LEU:C	2.28	0.53
4:E:22:VAL:HG12	4:E:68:LEU:HD22	1.91	0.53
2:M:3:ILE:O	2:M:3:ILE:HG22	2.08	0.53
2:M:474:VAL:HG12	2:M:530:GLU:O	2.08	0.53
2:M:603:VAL:HG21	2:M:643:VAL:HG11	1.89	0.53
3:N:122:GLU:HA	3:N:122:GLU:OE1	2.06	0.53
3:N:131:LYS:CD	3:N:568:ARG:HG2	2.37	0.53
1:B:182:GLU:HG3	1:B:194:LYS:HD3	1.91	0.53
2:C:145:GLY:H	2:C:163:ILE:HG23	1.72	0.53
2:C:205:GLU:HG3	2:C:206:THR:N	2.24	0.53
2:C:439:CYS:HB2	2:C:541:SER:CB	2.37	0.53
2:C:768:THR:O	2:C:772:ARG:N	2.41	0.53
2:C:876:VAL:HG22	2:C:884:GLN:NE2	2.23	0.53
3:D:241:ILE:HA	3:D:244:GLU:CB	2.38	0.53
3:D:1020:LEU:HD12	3:D:1023:MET:HE1	1.90	0.53
2:M:823:VAL:HG12	2:M:823:VAL:O	2.08	0.53
3:N:52:PRO:HG2	3:N:81:THR:O	2.08	0.53
3:N:149:LYS:HD3	3:N:149:LYS:N	2.23	0.53
3:N:908:LYS:HB3	3:N:1027:GLY:CA	2.34	0.53
3:N:916:TYR:O	3:N:920:LEU:HD13	2.09	0.53
5:P:321:ILE:HG21	5:P:332:PHE:CZ	2.44	0.53
5:P:389:PHE:HD2	5:P:397:ILE:HD11	1.73	0.53
1:B:175:ARG:HH12	1:B:202:ASP:HB3	1.71	0.53
2:C:95:TYR:HD2	2:C:114:PHE:HB3	1.69	0.53
2:C:466:PHE:HB3	2:C:487:THR:HG23	1.91	0.53
3:D:601:ARG:NH2	3:D:611:GLN:HB2	2.23	0.53
3:D:625:TYR:CD1	3:D:625:TYR:N	2.76	0.53
3:D:1120:VAL:HB	3:D:1144:LEU:HD21	1.91	0.53
5:F:156:VAL:HG23	5:F:157:GLU:N	2.23	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:370:ALA:HB2	5:P:280:GLN:HA	1.90	0.53
3:N:56:TYR:CE1	3:N:66:GLN:HG3	2.42	0.53
3:N:245:LEU:HB2	3:N:366:LYS:HZ1	1.74	0.53
3:N:783:ARG:NH1	3:N:1029:ARG:NH2	2.56	0.53
3:N:871:LYS:HE3	3:N:873:LEU:HD21	1.89	0.53
3:N:1094:LEU:O	3:N:1098:LEU:HD13	2.07	0.53
3:N:1497:GLU:O	3:N:1501:GLU:HG3	2.07	0.53
1:A:219:ARG:HH11	1:A:219:ARG:HG3	1.73	0.53
1:B:143:ARG:NH1	1:B:158:ILE:HG23	2.24	0.53
2:C:640:ARG:O	2:C:656:ALA:HB1	2.09	0.53
3:D:169:TYR:N	3:D:170:PRO:HD3	2.23	0.53
3:D:220:ARG:NH2	3:D:220:ARG:HB3	2.23	0.53
3:D:657:LEU:HD22	3:D:691:LEU:HD13	1.89	0.53
3:D:898:GLU:HB3	3:D:921:ARG:NH2	2.24	0.53
3:D:1076:GLY:HA2	3:D:1079:LYS:HD3	1.90	0.53
1:K:206:THR:H	1:K:209:GLU:HB2	1.74	0.53
2:M:146:VAL:HG11	2:M:162:ILE:HG12	1.90	0.53
2:M:207:LEU:HD13	2:M:221:LEU:HD11	1.90	0.53
2:M:332:ARG:CZ	2:M:464:LEU:HD21	2.38	0.53
2:M:503:LEU:HD12	2:M:505:GLY:O	2.08	0.53
2:M:762:LYS:HG2	2:M:763:GLY:H	1.73	0.53
3:N:32:ILE:CD1	3:N:527:MET:HG2	2.38	0.53
5:P:94:LEU:HB3	5:P:98:GLU:H	1.73	0.53
1:A:198:ARG:HH21	2:C:934:PHE:HE1	1.54	0.53
2:C:627:ARG:CG	2:C:628:PHE:H	2.06	0.53
2:C:737:LEU:O	2:C:738:ASP:C	2.47	0.53
2:C:988:VAL:HG12	3:D:948:THR:OG1	2.08	0.53
3:D:573:MET:HG2	5:F:210:LEU:HD13	1.90	0.53
3:D:582:LEU:HA	3:D:603:LEU:HD12	1.90	0.53
3:D:957:PRO:HG2	3:D:1007:VAL:HA	1.91	0.53
3:D:1155:VAL:CG1	3:D:1177:ALA:HB1	2.38	0.53
3:D:1208:ASP:OD1	3:D:1209:LEU:O	2.27	0.53
3:D:1380:GLU:HA	3:D:1392:GLY:HA2	1.89	0.53
3:D:1435:LEU:HD23	3:D:1464:GLU:O	2.09	0.53
2:M:167:LYS:C	2:M:167:LYS:HD3	2.29	0.53
2:M:597:ALA:C	2:M:652:GLY:HA2	2.29	0.53
2:M:598:GLU:O	2:M:599:GLU:HB2	2.08	0.53
2:M:760:SER:C	2:M:785:VAL:HG13	2.28	0.53
2:M:780:GLU:O	2:M:782:ALA:N	2.41	0.53
2:M:966:LEU:HD11	2:M:986:PRO:CG	2.36	0.53
3:N:10:ILE:HG22	3:N:1451:ALA:HA	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:39:PRO:HB3	3:N:46:ASP:HA	1.89	0.53
3:N:191:LEU:HD22	3:N:195:VAL:HG21	1.90	0.53
3:N:219:GLU:HA	3:N:219:GLU:OE2	2.08	0.53
3:N:225:LEU:CD2	3:N:440:VAL:HG21	2.39	0.53
3:N:371:ILE:HD12	3:N:372:ASP:N	2.24	0.53
3:N:533:GLY:HA3	5:P:309:LYS:HB3	1.91	0.53
3:N:958:GLU:OE2	3:N:961:LYS:HE2	2.08	0.53
3:N:1115:THR:HG22	3:N:1115:THR:O	2.08	0.53
3:N:1237:THR:HA	3:N:1255:GLY:HA3	1.90	0.53
3:N:1252:ILE:HG22	3:N:1253:THR:H	1.74	0.53
5:P:166:LEU:HB3	5:P:170:HIS:HB2	1.91	0.53
5:P:351:SER:O	5:P:355:GLU:HB2	2.08	0.53
1:A:72:LYS:HZ1	2:C:644:VAL:HA	1.73	0.53
1:A:94:LEU:C	1:A:96:THR:N	2.62	0.53
2:C:368:THR:CB	2:C:369:PRO:HD3	2.30	0.53
2:C:612:VAL:HA	2:C:621:VAL:O	2.08	0.53
2:C:983:ILE:HG21	2:C:987:ILE:HD11	1.91	0.53
3:D:52:PRO:HG3	3:D:78:VAL:CG1	2.38	0.53
3:D:110:SER:O	3:D:113:GLY:N	2.34	0.53
3:D:133:ILE:H	3:D:133:ILE:HD12	1.72	0.53
3:D:178:LEU:C	3:D:180:LYS:H	2.12	0.53
3:D:212:ARG:HD2	3:D:445:ARG:NH2	2.15	0.53
3:D:459:GLU:O	3:D:463:GLN:HG2	2.09	0.53
3:D:464:LEU:O	3:D:468:LEU:HG	2.09	0.53
3:D:916:TYR:CD2	3:D:916:TYR:O	2.62	0.53
3:D:1153:VAL:HG12	3:D:1155:VAL:HG23	1.90	0.53
4:E:47:LYS:CA	4:E:54:LEU:HB3	2.38	0.53
2:M:42:VAL:HG12	2:M:43:GLY:H	1.72	0.53
2:M:1052:MET:CE	3:N:748:HIS:HB3	2.39	0.53
3:N:59:ALA:CB	3:N:78:VAL:HG21	2.39	0.53
3:N:84:ILE:O	3:N:87:ARG:HG2	2.09	0.53
3:N:176:ASP:HB3	3:N:219:GLU:HG2	1.89	0.53
3:N:925:GLU:OE1	4:O:7:ASP:OD2	2.27	0.53
1:A:157:GLY:HA2	1:A:166:PRO:HG2	1.89	0.53
1:B:83:LYS:NZ	1:B:168:ASP:OD2	2.26	0.53
2:C:364:GLU:O	2:C:367:LEU:HD22	2.08	0.53
2:C:461:VAL:HG13	2:C:465:GLY:CA	2.38	0.53
2:C:549:PHE:O	2:C:551:GLU:N	2.42	0.53
2:C:919:ALA:CB	2:C:968:LEU:HD21	2.34	0.53
3:D:41:ARG:HG3	3:D:42:ASP:H	1.73	0.53
5:F:164:LYS:HB2	5:F:171:LYS:HZ1	1.74	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:25:LEU:HD22	1:L:225:PHE:CE2	2.43	0.53
1:K:111:ALA:HB3	1:K:127:LEU:HB3	1.90	0.53
1:L:71:VAL:HG22	1:L:132:LEU:HG	1.90	0.53
2:M:52:PHE:CD2	2:M:68:PHE:HB2	2.44	0.53
2:M:547:ILE:HG22	2:M:547:ILE:O	2.08	0.53
3:N:701:LEU:O	3:N:702:LEU:HD12	2.09	0.53
3:N:916:TYR:CZ	3:N:920:LEU:HD11	2.44	0.53
3:N:1481:VAL:HG11	4:O:18:ARG:HA	1.91	0.53
5:P:105:LYS:HB3	5:P:105:LYS:HZ3	1.73	0.53
1:A:92:PRO:O	1:A:94:LEU:N	2.41	0.53
1:A:132:LEU:HD21	1:A:138:LEU:HB3	1.90	0.53
1:A:161:ARG:HH11	1:A:161:ARG:CG	2.21	0.53
2:C:226:VAL:HG13	2:C:227:PHE:N	2.24	0.53
2:C:468:ARG:HD3	2:C:485:TYR:O	2.09	0.53
3:D:389:GLU:OE1	3:D:389:GLU:N	2.42	0.53
3:D:629:SER:O	3:D:744:GLN:CB	2.56	0.53
3:D:892:ASP:HB3	3:D:895:VAL:CG2	2.39	0.53
3:D:930:LEU:O	3:D:934:LEU:HG	2.09	0.53
3:D:1273:VAL:HG21	3:D:1305:LEU:HD21	1.90	0.53
2:M:385:PHE:CD1	2:M:389:SER:HB2	2.44	0.53
3:N:14:SER:O	3:N:17:LYS:N	2.41	0.53
3:N:18:ILE:HG21	3:N:516:ALA:O	2.09	0.53
3:N:210:ARG:CD	3:N:398:ALA:HB3	2.34	0.53
3:N:528:VAL:CG1	3:N:529:GLN:N	2.72	0.53
3:N:798:GLU:OE1	3:N:826:PRO:HB3	2.08	0.53
3:N:1170:ASP:C	3:N:1172:HIS:N	2.63	0.53
4:O:40:LEU:HB2	4:O:45:ARG:NH1	2.24	0.53
1:A:93:SER:C	1:A:94:LEU:HD12	2.29	0.53
2:C:12:VAL:HG13	2:C:13:ILE:N	2.24	0.53
2:C:22:GLN:NE2	2:C:336:VAL:CG2	2.71	0.53
2:C:358:ARG:HH22	2:C:374:ASN:CG	2.12	0.53
2:C:923:GLU:O	2:C:927:GLY:N	2.38	0.53
3:D:40:GLU:CG	3:D:41:ARG:H	2.22	0.53
3:D:1304:LYS:H	3:D:1304:LYS:CD	1.93	0.53
3:D:1357:ARG:C	3:D:1359:GLN:H	2.13	0.53
3:D:1497:GLU:O	3:D:1501:GLU:HG3	2.09	0.53
5:F:154:LYS:HG3	5:F:158:GLU:OE2	2.09	0.53
1:K:127:LEU:HD12	1:K:128:HIS:H	1.73	0.53
2:M:44:ILE:HD11	2:M:340:MET:CE	2.38	0.53
2:M:1033:GLY:O	2:M:1037:VAL:HG23	2.09	0.53
6:M:1120:STD:C31	3:N:1086:LEU:HB2	2.39	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:40:GLU:HG3	3:N:41:ARG:HG2	1.90	0.53
3:N:212:ARG:HB2	3:N:445:ARG:NH2	2.24	0.53
3:N:386:HIS:O	5:P:96:LEU:HD12	2.08	0.53
3:N:400:VAL:C	3:N:402:PRO:HD3	2.29	0.53
3:N:573:MET:HE2	5:P:214:GLN:HG3	1.90	0.53
3:N:669:ASN:H	3:N:672:ALA:HB2	1.74	0.53
3:N:785:ILE:HG22	3:N:789:LEU:HD12	1.91	0.53
5:P:316:SER:HG	5:P:318:GLU:HG3	1.70	0.53
5:P:386:VAL:HA	5:P:394:ARG:HG3	1.91	0.53
1:A:94:LEU:HD21	1:A:119:ASP:HB2	1.91	0.53
2:C:204:GLN:HE21	2:C:228:ALA:HB2	1.73	0.53
2:C:426:ASP:HA	2:C:429:ASP:OD2	2.08	0.53
2:C:895:TYR:CD2	2:C:896:PHE:CD1	2.97	0.53
2:C:1102:LEU:HD22	3:D:9:ARG:HD3	1.90	0.53
3:D:502:PHE:CE2	3:D:509:PRO:HB3	2.44	0.53
5:F:371:LEU:HD22	5:F:375:LEU:HD22	1.91	0.53
1:K:42:ARG:HH12	2:M:857:ASP:CB	2.21	0.53
2:M:383:ARG:HB2	2:M:383:ARG:HH11	1.73	0.53
2:M:534:VAL:H	2:M:538:GLN:HE22	1.57	0.53
2:M:547:ILE:O	2:M:548:PRO:C	2.47	0.53
2:M:714:ASP:HB2	2:M:818:GLY:O	2.08	0.53
2:M:904:PRO:HD2	2:M:908:GLY:HA2	1.91	0.53
3:N:998:GLU:O	3:N:1002:LYS:HG3	2.08	0.53
3:N:1395:LEU:C	3:N:1395:LEU:HD13	2.29	0.53
4:O:22:VAL:HG12	4:O:23:VAL:N	2.24	0.53
5:P:365:GLU:HA	5:P:368:VAL:CG2	2.39	0.53
1:A:9:PRO:HB3	1:A:25:LEU:CD2	2.39	0.52
1:A:20:TYR:CD2	1:A:21:GLY:N	2.72	0.52
2:C:424:GLY:O	2:C:427:VAL:N	2.40	0.52
2:C:679:PHE:CD1	2:C:870:ILE:HD13	2.44	0.52
2:C:799:ILE:HD13	2:C:799:ILE:O	2.09	0.52
2:C:947:ALA:O	2:C:953:VAL:HG22	2.09	0.52
3:D:433:GLY:H	3:D:449:SER:N	2.07	0.52
3:D:654:LYS:CB	3:D:655:PRO:HD3	2.30	0.52
3:D:1064:GLY:O	3:D:1065:LEU:C	2.47	0.52
3:D:1412:LYS:O	3:D:1414:PRO:HD3	2.09	0.52
5:F:416:ARG:NH2	5:F:419:ARG:CG	2.72	0.52
1:K:41:ARG:HH11	1:K:41:ARG:HG3	1.74	0.52
1:L:38:ASN:CB	1:L:39:PRO:HD3	2.40	0.52
1:L:206:THR:CG2	1:L:209:GLU:H	2.21	0.52
2:M:183:SER:CB	2:M:190:LYS:HG2	2.23	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:549:PHE:HE2	2:M:887:GLU:HA	1.74	0.52
2:M:1005:MET:SD	3:N:648:MET:HG3	2.49	0.52
3:N:702:LEU:HB3	3:N:745:MET:HE2	1.91	0.52
3:N:804:LEU:O	3:N:831:GLY:HA2	2.09	0.52
3:N:806:PHE:HA	3:N:809:PRO:HD2	1.91	0.52
3:N:1311:LEU:HD23	3:N:1311:LEU:N	2.23	0.52
3:N:1458:GLU:O	3:N:1460:ILE:HG13	2.08	0.52
1:A:100:LEU:HD13	1:A:115:LEU:HD11	1.90	0.52
1:A:205:VAL:HG23	1:A:206:THR:N	2.24	0.52
2:C:341:THR:O	2:C:344:PHE:HB3	2.10	0.52
2:C:682:TYR:HB3	2:C:689:VAL:CG1	2.39	0.52
2:C:723:THR:OG1	2:C:724:ARG:N	2.42	0.52
2:C:910:LYS:HB3	2:C:912:PRO:HD2	1.90	0.52
3:D:9:ARG:HH12	3:D:11:ALA:HB2	1.72	0.52
3:D:615:ARG:O	3:D:619:LEU:CB	2.58	0.52
3:D:630:VAL:O	3:D:726:ILE:HG13	2.09	0.52
3:D:796:ARG:O	3:D:797:LYS:HG3	2.09	0.52
3:D:1232:PRO:O	3:D:1233:GLY:C	2.47	0.52
2:M:367:LEU:HD12	2:M:367:LEU:O	2.08	0.52
2:M:863:ASP:OD2	2:M:865:THR:HG22	2.10	0.52
2:M:1074:GLU:HA	4:O:31:LEU:HD21	1.91	0.52
3:N:148:GLU:CB	3:N:151:GLN:HB2	2.23	0.52
3:N:212:ARG:HB3	3:N:394:LEU:CD1	2.38	0.52
3:N:245:LEU:HD22	3:N:246:PRO:CD	2.33	0.52
3:N:558:LEU:HD13	5:P:145:PRO:CB	2.39	0.52
3:N:1215:VAL:HG22	3:N:1216:SER:N	2.24	0.52
3:N:1267:ARG:CZ	3:N:1271:LYS:HG3	2.40	0.52
3:N:1377:LYS:HE2	3:N:1394:VAL:HG22	1.91	0.52
1:A:27:PRO:CG	1:A:186:LEU:HD22	2.35	0.52
1:B:20:TYR:OH	1:B:198:ARG:HD2	2.09	0.52
2:C:460:ARG:CD	2:C:485:TYR:CE2	2.86	0.52
2:C:872:ASN:OD1	2:C:873:PRO:N	2.42	0.52
3:D:128:TYR:HB3	3:D:129:PHE:CD1	2.45	0.52
3:D:646:LYS:HG3	3:D:647:ARG:N	2.23	0.52
3:D:728:LEU:HD11	3:D:732:VAL:CG2	2.40	0.52
3:D:765:SER:C	3:D:767:HIS:H	2.12	0.52
3:D:1115:THR:HB	3:D:1151:ARG:NH2	2.23	0.52
3:D:1265:ALA:O	3:D:1266:ARG:HG3	2.09	0.52
1:L:44:LEU:CD1	1:L:199:ILE:HD11	2.38	0.52
1:L:57:TYR:HE1	1:L:163:ASN:HB2	1.74	0.52
2:M:61:LYS:O	2:M:61:LYS:HD3	2.08	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:172:ILE:HA	2:M:185:LYS:O	2.10	0.52
2:M:238:LEU:HD23	2:M:238:LEU:O	2.09	0.52
2:M:675:ALA:HB2	2:M:867:VAL:HG11	1.91	0.52
2:M:689:VAL:O	2:M:869:VAL:HG23	2.09	0.52
2:M:998:TYR:HE2	2:M:1000:MET:SD	2.33	0.52
3:N:175:VAL:HG12	3:N:176:ASP:OD1	2.09	0.52
3:N:604:THR:C	3:N:606:ILE:H	2.12	0.52
3:N:736:PHE:O	3:N:738:ALA:N	2.42	0.52
2:C:654:LEU:HD11	2:C:663:ASN:O	2.09	0.52
3:D:127:LEU:HD22	3:D:134:VAL:CG2	2.36	0.52
3:D:659:LYS:HD3	3:D:659:LYS:C	2.30	0.52
3:D:761:ILE:O	3:D:767:HIS:HD2	1.92	0.52
3:D:770:LEU:HG	3:D:919:PHE:CE1	2.45	0.52
3:D:949:ILE:HD11	3:D:1023:MET:HE1	1.91	0.52
3:D:1101:VAL:O	3:D:1101:VAL:HG12	2.10	0.52
3:D:1149:LEU:HD21	3:D:1166:LEU:HD21	1.92	0.52
5:F:94:LEU:HD13	5:F:94:LEU:C	2.30	0.52
1:K:1:MET:HG3	1:K:6:LEU:HB2	1.91	0.52
1:L:14:ARG:NH2	1:L:24:VAL:HG21	2.24	0.52
1:L:158:ILE:HG22	1:L:159:LYS:N	2.24	0.52
2:M:1089:VAL:O	2:M:1093:GLN:HG3	2.10	0.52
4:O:54:LEU:HD21	4:O:58:PRO:HB2	1.91	0.52
5:P:135:ILE:HD11	5:P:178:ARG:CG	2.40	0.52
5:P:196:VAL:HG13	5:P:213:ILE:HD11	1.90	0.52
1:A:44:LEU:HB2	1:A:177:VAL:HG21	1.92	0.52
1:B:7:LYS:HE3	1:B:186:LEU:CD2	2.40	0.52
2:C:15:LEU:CD2	2:C:583:LEU:HD21	2.39	0.52
2:C:495:THR:HG23	2:C:517:ARG:HE	1.73	0.52
2:C:1031:ARG:HA	3:D:621:LYS:O	2.10	0.52
3:D:233:LYS:HZ1	3:D:237:LYS:HD2	1.74	0.52
3:D:688:TRP:HA	3:D:688:TRP:HE3	1.75	0.52
3:D:1229:ILE:O	3:D:1229:ILE:HG22	2.09	0.52
3:D:1486:VAL:HG12	4:E:73:LEU:HD22	1.90	0.52
5:F:326:ASP:OD1	5:F:326:ASP:N	2.43	0.52
1:K:150:TYR:HE1	2:M:696:LYS:HA	1.74	0.52
2:M:196:LEU:HA	2:M:199:VAL:CG2	2.39	0.52
2:M:833:LEU:HD13	2:M:996:LYS:CD	2.40	0.52
3:N:22:SER:HA	3:N:90:MET:O	2.09	0.52
3:N:544:TYR:O	3:N:548:ILE:HG13	2.10	0.52
3:N:643:GLY:HA3	3:N:727:GLN:HB2	1.92	0.52
3:N:1031:ASN:O	3:N:1034:GLN:HB2	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:151:VAL:O	1:B:169:ALA:N	2.32	0.52
2:C:207:LEU:O	2:C:211:LEU:HB3	2.10	0.52
2:C:404:LEU:O	2:C:408:ARG:HG2	2.10	0.52
2:C:1052:MET:HG3	3:D:623:VAL:CG2	2.39	0.52
3:D:124:GLU:O	3:D:126:VAL:N	2.42	0.52
3:D:223:LEU:N	3:D:223:LEU:HD22	2.25	0.52
3:D:688:TRP:HA	3:D:688:TRP:CE3	2.43	0.52
2:M:43:GLY:HA2	2:M:341:THR:HG21	1.91	0.52
2:M:427:VAL:O	2:M:427:VAL:HG12	2.09	0.52
3:N:96:ALA:CB	3:N:554:LEU:HG	2.40	0.52
3:N:426:LYS:HZ2	5:P:138:SER:HA	1.75	0.52
3:N:1124:GLN:NE2	3:N:1133:ARG:HD2	2.22	0.52
3:N:1264:GLU:O	3:N:1266:ARG:N	2.42	0.52
5:P:134:LYS:HB2	5:P:178:ARG:HH11	1.73	0.52
5:P:232:ARG:O	5:P:233:PHE:C	2.48	0.52
1:A:58:ILE:HG22	1:A:59:GLU:N	2.24	0.52
2:C:88:LEU:N	2:C:88:LEU:HD23	2.25	0.52
2:C:142:ARG:HH11	2:C:325:ILE:HG23	1.73	0.52
2:C:352:ALA:HA	2:C:355:VAL:HG12	1.91	0.52
2:C:921:ALA:O	2:C:923:GLU:N	2.43	0.52
3:D:50:PHE:CB	3:D:522:PRO:HG2	2.39	0.52
3:D:210:ARG:HD2	3:D:398:ALA:HB3	1.91	0.52
3:D:375:GLU:O	3:D:376:GLU:HB3	2.08	0.52
3:D:389:GLU:HG2	3:D:389:GLU:O	2.09	0.52
3:D:969:ARG:O	3:D:973:GLN:HG3	2.08	0.52
1:K:117:VAL:O	1:K:118:ALA:O	2.28	0.52
1:K:214:ALA:O	1:K:216:GLU:N	2.43	0.52
1:L:27:PRO:HG2	1:L:186:LEU:HD12	1.92	0.52
1:L:88:ARG:HG2	1:L:88:ARG:HH11	1.74	0.52
1:L:101:LEU:HD21	1:L:109:VAL:HG11	1.92	0.52
2:M:6:PHE:CD1	2:M:6:PHE:N	2.78	0.52
2:M:194:VAL:HG13	2:M:221:LEU:HG	1.90	0.52
2:M:604:ALA:HB3	2:M:612:VAL:O	2.09	0.52
2:M:751:PRO:HG2	3:N:680:GLN:HE21	1.74	0.52
2:M:874:LEU:HD11	3:N:784:ASP:OD2	2.10	0.52
3:N:23:TYR:O	3:N:49:ILE:HG23	2.09	0.52
3:N:216:VAL:HG21	3:N:224:ARG:HG2	1.91	0.52
3:N:221:ALA:O	3:N:367:ILE:HD12	2.09	0.52
3:N:780:LYS:HD3	3:N:912:LYS:HG3	1.91	0.52
3:N:975:GLU:CD	3:N:988:ARG:HH12	2.12	0.52
3:N:1345:GLU:HG3	3:N:1376:MET:SD	2.50	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:P:321:ILE:HD11	5:P:329:TYR:HA	1.91	0.52
1:A:73:GLU:OE1	1:A:130:ALA:HA	2.09	0.52
1:A:117:VAL:HG12	1:A:118:ALA:N	2.25	0.52
1:A:148:VAL:N	1:A:171:PHE:CD2	2.78	0.52
1:B:74:ASP:O	1:B:78:ILE:HG13	2.09	0.52
2:C:29:ALA:C	2:C:44:ILE:HD13	2.29	0.52
2:C:226:VAL:HG13	2:C:227:PHE:CD1	2.45	0.52
2:C:420:ARG:HD3	2:C:420:ARG:N	2.25	0.52
2:C:516:ARG:HH11	2:C:521:PRO:CB	2.23	0.52
2:C:737:LEU:HD21	2:C:741:GLY:O	2.09	0.52
3:D:87:ARG:O	3:D:521:PRO:CB	2.57	0.52
3:D:241:ILE:HA	3:D:244:GLU:HB2	1.92	0.52
3:D:493:ARG:HE	3:D:1389:LEU:CG	2.22	0.52
3:D:860:LEU:O	3:D:877:PRO:HD2	2.10	0.52
3:D:896:ALA:O	3:D:899:LEU:HD13	2.10	0.52
3:D:1236:LEU:HA	3:D:1359:GLN:NE2	2.25	0.52
5:F:384:GLU:O	5:F:386:VAL:N	2.43	0.52
1:K:194:LYS:HD2	1:K:194:LYS:O	2.10	0.52
2:M:470:PRO:HD2	2:M:538:GLN:OE1	2.09	0.52
2:M:722:ILE:HD11	2:M:823:VAL:HG21	1.92	0.52
3:N:112:ILE:HG22	3:N:512:MET:SD	2.50	0.52
3:N:131:LYS:CE	3:N:456:MET:HE2	2.40	0.52
3:N:133:ILE:HG12	3:N:456:MET:SD	2.50	0.52
3:N:159:ARG:HH21	5:P:87:GLU:HG2	1.73	0.52
3:N:562:ALA:CB	3:N:567:ILE:HG12	2.40	0.52
1:A:104:GLU:HG2	1:A:137:ARG:HD2	1.91	0.52
2:C:250:ARG:NE	2:C:253:ALA:HB1	2.24	0.52
2:C:266:ARG:HG2	2:C:273:GLY:HA3	1.92	0.52
2:C:890:LEU:HD12	2:C:890:LEU:O	2.10	0.52
2:C:906:PHE:CE1	3:D:1067:VAL:HG13	2.45	0.52
2:C:923:GLU:O	2:C:924:VAL:C	2.48	0.52
3:D:55:ASP:HA	3:D:82:LYS:HA	1.91	0.52
3:D:384:VAL:O	5:F:232:ARG:NH1	2.42	0.52
3:D:510:GLU:O	3:D:513:ILE:HD12	2.10	0.52
3:D:583:ASP:OD1	3:D:604:THR:HG22	2.09	0.52
3:D:972:LEU:HD23	3:D:973:GLN:H	1.75	0.52
3:D:992:ILE:O	3:D:993:LEU:C	2.47	0.52
3:D:1063:GLU:HG2	3:D:1064:GLY:N	2.25	0.52
4:E:26:ARG:NH2	4:E:67:GLU:OE1	2.41	0.52
1:K:205:VAL:CG2	1:K:206:THR:N	2.73	0.52
1:L:83:LYS:NZ	3:N:842:VAL:O	2.43	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:103:LYS:HE2	2:M:103:LYS:HA	1.91	0.52
2:M:259:GLY:O	2:M:291:ALA:HB2	2.09	0.52
2:M:564:MET:HA	2:M:564:MET:CE	2.40	0.52
2:M:841:ASN:ND2	2:M:843:HIS:CD2	2.78	0.52
2:M:845:ASN:HD22	2:M:884:GLN:NE2	2.04	0.52
3:N:128:TYR:HE1	3:N:461:ILE:CG1	2.23	0.52
3:N:215:TYR:CE1	5:P:97:GLU:HB3	2.44	0.52
3:N:702:LEU:HB3	3:N:745:MET:HE1	1.92	0.52
5:P:300:ASP:OD2	5:P:302:LYS:HG3	2.10	0.52
2:C:64:LEU:HD11	2:C:100:LEU:HD13	1.91	0.52
2:C:140:ILE:HG23	2:C:333:ILE:HD12	1.92	0.52
2:C:397:GLU:H	2:C:633:GLN:NE2	2.07	0.52
2:C:495:THR:HG23	2:C:517:ARG:NE	2.25	0.52
2:C:682:TYR:HB3	2:C:689:VAL:HG13	1.92	0.52
3:D:614:PHE:CE1	3:D:618:LEU:HD12	2.45	0.52
3:D:1074:SER:O	3:D:1077:ALA:HB3	2.10	0.52
3:D:1130:ARG:O	3:D:1131:SER:HB3	2.10	0.52
3:D:1137:ARG:H	3:D:1137:ARG:HD2	1.74	0.52
3:D:1213:ARG:HE	3:D:1213:ARG:H	1.58	0.52
3:D:1372:VAL:O	3:D:1375:MET:HB2	2.10	0.52
3:D:1451:ALA:O	3:D:1452:ILE:C	2.47	0.52
1:L:61:VAL:CG2	1:L:68:ILE:HD11	2.39	0.52
1:L:223:THR:O	1:L:225:PHE:N	2.43	0.52
2:M:807:ARG:NH1	2:M:807:ARG:HB2	2.25	0.52
2:M:1047:HIS:CG	3:N:754:PHE:CD2	2.98	0.52
3:N:101:HIS:CD2	3:N:582:LEU:HD13	2.45	0.52
3:N:794:GLN:NE2	3:N:795:VAL:N	2.51	0.52
3:N:1046:GLN:HA	3:N:1052:THR:HA	1.91	0.52
3:N:1115:THR:HG22	3:N:1151:ARG:NH2	2.24	0.52
2:C:194:VAL:HA	2:C:197:LEU:HB2	1.92	0.51
2:C:211:LEU:HD11	2:C:308:ARG:HB2	1.92	0.51
2:C:443:THR:HG21	2:C:450:GLY:N	2.12	0.51
2:C:829:GLN:NE2	2:C:831:ARG:HD3	2.24	0.51
2:C:878:SER:CB	3:D:1029:ARG:NH1	2.73	0.51
3:D:22:SER:OG	3:D:24:GLY:O	2.28	0.51
3:D:387:LEU:HD11	5:F:94:LEU:HD11	1.90	0.51
3:D:632:VAL:O	3:D:727:GLN:HA	2.09	0.51
3:D:831:GLY:HA3	3:D:834:THR:O	2.09	0.51
3:D:996:TRP:CD2	3:D:1056:PRO:HG2	2.45	0.51
1:K:54:THR:HG22	1:K:143:ARG:HD3	1.91	0.51
1:K:179:PHE:O	1:K:180:GLN:HG3	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:518:LYS:HG3	2:M:518:LYS:O	2.09	0.51
3:N:67:ARG:O	3:N:69:GLU:N	2.43	0.51
3:N:584:ASN:HB2	3:N:602:SER:HB3	1.92	0.51
5:P:107:GLU:O	5:P:110:MET:HB3	2.10	0.51
5:P:295:MET:HE2	5:P:295:MET:HA	1.90	0.51
2:C:428:ARG:HH12	6:D:1525:STD:H141	1.74	0.51
2:C:436:GLY:O	2:C:469:THR:HB	2.10	0.51
2:C:516:ARG:CZ	3:D:1068:LEU:CD2	2.77	0.51
2:C:1097:LEU:HG	3:D:101:HIS:CE1	2.45	0.51
3:D:161:LEU:O	3:D:449:SER:HB2	2.10	0.51
3:D:186:VAL:HG11	3:D:213:VAL:CG1	2.39	0.51
3:D:543:LEU:CD2	3:D:580:ALA:HB1	2.29	0.51
3:D:705:ALA:HB1	3:D:706:PRO:HD3	1.87	0.51
3:D:809:PRO:HB2	3:D:812:ALA:HB3	1.92	0.51
3:D:850:LEU:HD12	3:D:850:LEU:H	1.74	0.51
3:D:1438:ALA:O	3:D:1443:THR:HG22	2.10	0.51
5:F:140:ARG:HH11	5:F:140:ARG:HG3	1.74	0.51
5:F:393:THR:CG2	5:F:394:ARG:H	2.12	0.51
1:L:38:ASN:HB3	1:L:39:PRO:HD3	1.91	0.51
1:L:44:LEU:HD11	1:L:199:ILE:HD11	1.92	0.51
2:M:157:ARG:HH11	2:M:314:THR:HB	1.75	0.51
2:M:422:ARG:O	2:M:422:ARG:HG2	2.09	0.51
2:M:575:GLN:O	2:M:667:ALA:HB1	2.10	0.51
2:M:769:PRO:HB2	3:N:65:ARG:NH1	2.25	0.51
3:N:133:ILE:O	3:N:152:LEU:HB2	2.11	0.51
3:N:209:ARG:NH2	3:N:397:LYS:HG3	2.25	0.51
3:N:1045:MET:HA	3:N:1045:MET:HE3	1.92	0.51
3:N:1170:ASP:C	3:N:1172:HIS:H	2.13	0.51
5:P:134:LYS:O	5:P:135:ILE:CG1	2.57	0.51
5:P:367:MET:HA	5:P:370:LYS:CG	2.40	0.51
1:A:83:LYS:HZ3	2:C:698:ASP:CG	2.13	0.51
2:C:948:GLU:O	2:C:951:GLY:N	2.44	0.51
2:C:1081:VAL:HG12	2:C:1082:PRO:CD	2.40	0.51
3:D:129:PHE:CD1	3:D:129:PHE:N	2.79	0.51
3:D:569:ASN:C	3:D:569:ASN:HD22	2.13	0.51
3:D:1259:VAL:HG21	3:D:1356:TYR:HE1	1.74	0.51
5:F:79:ASP:CB	5:F:80:PRO:HD3	2.32	0.51
2:M:745:ILE:H	2:M:745:ILE:CD1	2.24	0.51
2:M:874:LEU:CD1	3:N:784:ASP:OD2	2.58	0.51
3:N:227:LEU:HD13	3:N:227:LEU:N	2.26	0.51
3:N:826:PRO:HD2	3:N:829:VAL:HG13	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:O:23:VAL:HG11	4:O:65:MET:HG3	1.92	0.51
4:O:59:ASN:HB3	4:O:62:THR:OG1	2.10	0.51
5:P:278:LEU:HB3	5:P:286:PRO:HG2	1.91	0.51
5:P:346:THR:HG22	5:P:347:GLN:N	2.24	0.51
1:A:58:ILE:HG22	1:A:59:GLU:H	1.76	0.51
1:B:123:MET:C	1:B:125:PRO:HD3	2.31	0.51
2:C:97:ARG:HH21	2:C:109:LYS:HD2	1.75	0.51
2:C:826:TYR:CD1	2:C:826:TYR:N	2.78	0.51
2:C:873:PRO:C	2:C:875:GLY:H	2.13	0.51
3:D:614:PHE:HE1	3:D:618:LEU:HD12	1.76	0.51
3:D:1092:GLY:O	3:D:1093:TYR:C	2.49	0.51
3:D:1197:ARG:HD3	3:D:1396:GLU:CB	2.39	0.51
4:E:45:ARG:HB3	4:E:46:PRO:CD	2.40	0.51
5:F:182:ALA:O	5:F:185:GLN:HB2	2.11	0.51
5:F:185:GLN:O	5:F:189:GLU:HG3	2.10	0.51
1:K:109:VAL:CG2	1:K:132:LEU:HD13	2.37	0.51
2:M:120:LEU:O	2:M:127:PHE:CD2	2.63	0.51
2:M:207:LEU:HD22	2:M:221:LEU:CD2	2.41	0.51
2:M:690:ILE:O	2:M:852:ILE:HA	2.11	0.51
2:M:807:ARG:HA	2:M:821:GLU:HB2	1.92	0.51
2:M:848:VAL:HG11	3:N:632:VAL:HG22	1.90	0.51
2:M:1097:LEU:CD2	3:N:10:ILE:HD13	2.30	0.51
3:N:134:VAL:HA	3:N:152:LEU:HA	1.92	0.51
3:N:444:VAL:HG13	3:N:444:VAL:O	2.10	0.51
3:N:466:LYS:HG2	3:N:510:GLU:CG	2.38	0.51
3:N:556:LYS:NZ	5:P:218:GLN:HE22	2.08	0.51
5:P:82:ARG:O	5:P:86:HIS:HB2	2.09	0.51
5:P:354:LEU:HD23	5:P:418:LEU:CD2	2.39	0.51
2:C:641:PRO:HA	2:C:656:ALA:HB2	1.93	0.51
2:C:873:PRO:C	2:C:875:GLY:N	2.64	0.51
2:C:1056:LYS:HB3	3:D:623:VAL:HG13	1.93	0.51
3:D:8:VAL:HG12	3:D:9:ARG:H	1.75	0.51
3:D:52:PRO:HG2	3:D:80:VAL:HG23	1.91	0.51
3:D:154:THR:HG22	3:D:155:ASP:N	2.25	0.51
3:D:441:ARG:O	3:D:443:VAL:N	2.39	0.51
3:D:445:ARG:H	3:D:445:ARG:HD2	1.75	0.51
3:D:1222:GLY:O	3:D:1225:ALA:HB3	2.10	0.51
2:M:726:ILE:HD11	2:M:754:ILE:HG21	1.91	0.51
2:M:1045:ALA:HA	3:N:758:GLU:HB3	1.92	0.51
3:N:127:LEU:HD12	3:N:128:TYR:N	2.26	0.51
3:N:162:ARG:HB2	3:N:434:ARG:NH2	2.26	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:625:TYR:HB3	3:N:749:VAL:HG21	1.91	0.51
3:N:877:PRO:O	3:N:878:GLY:C	2.49	0.51
4:O:54:LEU:HG	4:O:58:PRO:CB	2.40	0.51
1:B:201:THR:HG21	1:B:205:VAL:O	2.09	0.51
2:C:48:PHE:O	2:C:51:THR:N	2.43	0.51
2:C:381:ALA:O	2:C:384:GLU:N	2.44	0.51
2:C:480:THR:HG22	2:C:481:ASP:N	2.24	0.51
2:C:1013:TYR:HE1	2:C:1020:PRO:HG3	1.76	0.51
3:D:25:GLU:HB2	3:D:92:HIS:NE2	2.26	0.51
3:D:223:LEU:CA	3:D:365:ASP:HB2	2.40	0.51
3:D:500:ARG:HH22	3:D:1388:ARG:CZ	2.23	0.51
3:D:564:GLU:HA	3:D:567:ILE:HD12	1.91	0.51
3:D:834:THR:HG22	3:D:838:ARG:HB2	1.91	0.51
3:D:984:THR:HG22	3:D:987:GLU:CD	2.30	0.51
3:D:984:THR:HG22	3:D:987:GLU:CB	2.39	0.51
3:D:1304:LYS:O	3:D:1304:LYS:HG2	2.10	0.51
4:E:46:PRO:CB	4:E:54:LEU:HD22	2.37	0.51
5:F:272:SER:O	5:F:275:ALA:HB3	2.11	0.51
5:F:411:HIS:CE1	5:F:412:GLU:HG2	2.45	0.51
1:K:156:HIS:CD2	1:K:158:ILE:HG12	2.45	0.51
2:M:157:ARG:NH1	2:M:314:THR:O	2.43	0.51
2:M:1099:VAL:HG23	2:M:1099:VAL:O	2.11	0.51
3:N:149:LYS:HG2	3:N:150:ARG:H	1.76	0.51
3:N:456:MET:HG2	3:N:456:MET:O	2.11	0.51
3:N:633:VAL:N	3:N:740:PHE:CE2	2.79	0.51
3:N:1295:GLU:CD	3:N:1300:SER:OG	2.49	0.51
1:A:108:GLU:O	1:A:110:LYS:HG3	2.10	0.51
1:B:106:PRO:HG3	1:B:134:GLU:OE1	2.11	0.51
2:C:148:PHE:HB3	2:C:313:LEU:HD22	1.92	0.51
2:C:693:GLU:O	2:C:697:ARG:HG2	2.10	0.51
2:C:787:ASP:OD2	2:C:791:ARG:NH2	2.42	0.51
3:D:396:VAL:CG2	3:D:447:VAL:HG12	2.37	0.51
3:D:541:ASN:O	3:D:545:ARG:HG3	2.10	0.51
3:D:562:ALA:HB1	3:D:567:ILE:CD1	2.40	0.51
3:D:624:ASP:HB3	3:D:625:TYR:CE1	2.46	0.51
3:D:662:GLU:OE1	3:D:662:GLU:C	2.49	0.51
3:D:662:GLU:OE1	3:D:663:GLU:N	2.44	0.51
3:D:992:ILE:O	3:D:995:LEU:N	2.44	0.51
4:E:48:MET:HG2	4:E:49:GLN:H	1.75	0.51
1:K:201:THR:HG22	1:K:202:ASP:N	2.25	0.51
2:M:418:LEU:HD22	2:M:418:LEU:N	2.26	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:583:LEU:O	2:M:584:GLU:C	2.49	0.51
2:M:591:SER:O	2:M:593:ALA:N	2.37	0.51
2:M:987:ILE:HD13	2:M:987:ILE:N	2.25	0.51
3:N:249:TYR:O	3:N:250:LEU:HD12	2.09	0.51
3:N:481:MET:HE1	3:N:1388:ARG:HE	1.74	0.51
3:N:850:LEU:HD12	3:N:850:LEU:N	2.26	0.51
3:N:1031:ASN:HD22	3:N:1032:PRO:HD2	1.75	0.51
3:N:1043:GLY:C	3:N:1057:VAL:H	2.14	0.51
1:A:127:LEU:HG	1:A:127:LEU:O	2.09	0.51
1:A:162:ILE:HG13	1:A:163:ASN:N	2.26	0.51
1:B:14:ARG:HH1	1:B:14:ARG:HG3	1.76	0.51
2:C:551:GLU:HB3	2:C:906:PHE:CE2	2.45	0.51
2:C:927:GLY:HA2	2:C:930:LYS:HE2	1.92	0.51
3:D:58:CYS:SG	3:D:59:ALA:N	2.84	0.51
3:D:550:ARG:NH1	3:D:573:MET:HB3	2.26	0.51
3:D:567:ILE:HG22	3:D:571:LYS:NZ	2.25	0.51
3:D:629:SER:HB3	3:D:726:ILE:CD1	2.39	0.51
3:D:650:LEU:HD22	3:D:688:TRP:CH2	2.46	0.51
3:D:1412:LYS:HG3	3:D:1414:PRO:HD3	1.92	0.51
5:F:161:GLN:O	5:F:164:LYS:HG2	2.11	0.51
1:K:93:SER:OG	1:K:94:LEU:HD12	2.11	0.51
1:L:102:LYS:HG3	1:L:139:ASN:HB2	1.91	0.51
2:M:139:GLN:HB3	2:M:334:ARG:HG3	1.92	0.51
2:M:176:VAL:HG12	2:M:182:VAL:CG1	2.32	0.51
2:M:442:GLU:HG2	2:M:454:SER:CB	2.41	0.51
2:M:588:VAL:O	2:M:591:SER:O	2.28	0.51
2:M:846:LYS:NZ	3:N:741:ASP:O	2.42	0.51
2:M:1051:GLU:OE2	3:N:752:SER:CB	2.59	0.51
3:N:44:LEU:CB	3:N:525:ARG:NH2	2.55	0.51
3:N:139:GLY:HA3	3:N:452:ILE:CD1	2.40	0.51
3:N:150:ARG:HH12	3:N:464:LEU:HD22	1.75	0.51
3:N:538:SER:N	5:P:317:LEU:HD12	2.26	0.51
3:N:1209:LEU:C	3:N:1211:MET:N	2.63	0.51
5:P:264:MET:O	5:P:267:THR:HB	2.10	0.51
2:C:42:VAL:HG12	2:C:43:GLY:N	2.25	0.51
2:C:405:ARG:HD3	2:C:543:ASN:OD1	2.11	0.51
2:C:568:ALA:HB1	2:C:668:LEU:HB3	1.93	0.51
3:D:123:LEU:O	3:D:126:VAL:HB	2.11	0.51
3:D:148:GLU:HA	3:D:151:GLN:HE21	1.76	0.51
3:D:670:VAL:O	3:D:672:ALA:N	2.43	0.51
3:D:1487:VAL:O	4:E:73:LEU:HD23	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:189:ARG:HH12	1:L:155:LYS:NZ	2.09	0.51
1:K:224:TYR:CG	1:L:9:PRO:HD2	2.46	0.51
2:M:15:LEU:H	2:M:15:LEU:CD1	2.15	0.51
2:M:349:ALA:O	2:M:353:ARG:HG3	2.11	0.51
2:M:564:MET:HE1	2:M:846:LYS:HD2	1.93	0.51
2:M:610:ARG:HD3	2:M:622:GLU:OE1	2.11	0.51
2:M:673:LEU:HD21	2:M:895:TYR:CZ	2.45	0.51
2:M:971:LYS:HB3	2:M:986:PRO:O	2.11	0.51
2:M:1008:ARG:NH1	3:N:624:ASP:OD1	2.41	0.51
3:N:115:LEU:CD1	3:N:498:VAL:HG23	2.40	0.51
3:N:231:VAL:CG1	3:N:378:ILE:HG23	2.41	0.51
3:N:550:ARG:HH11	3:N:550:ARG:HG3	1.76	0.51
3:N:558:LEU:HD13	5:P:145:PRO:HB3	1.93	0.51
3:N:603:LEU:O	3:N:606:ILE:HB	2.11	0.51
3:N:999:THR:O	3:N:1002:LYS:HB2	2.11	0.51
3:N:1043:GLY:HA2	3:N:1057:VAL:H	1.76	0.51
3:N:1433:SER:HB2	3:N:1457:ASP:CG	2.30	0.51
5:P:402:ASN:O	5:P:406:ARG:HD2	2.11	0.51
1:B:100:LEU:CD1	1:B:115:LEU:HD21	2.37	0.51
2:C:113:VAL:O	2:C:115:LEU:HD23	2.10	0.51
2:C:127:PHE:CD1	2:C:386:PHE:CE2	2.95	0.51
2:C:145:GLY:N	2:C:163:ILE:HG23	2.25	0.51
2:C:431:HIS:HD2	2:C:432:ARG:N	2.08	0.51
2:C:484:VAL:O	2:C:486:MET:HG3	2.11	0.51
2:C:885:ILE:HD12	3:D:949:ILE:O	2.11	0.51
3:D:542:ASP:O	3:D:546:ARG:CG	2.59	0.51
3:D:936:TYR:HE2	3:D:940:THR:HG21	1.76	0.51
3:D:1457:ASP:O	3:D:1457:ASP:OD1	2.29	0.51
5:F:192:LEU:O	5:F:196:VAL:HG23	2.10	0.51
5:F:354:LEU:CD2	5:F:418:LEU:HD21	2.41	0.51
1:K:183:ASP:N	2:M:938:LYS:HZ2	2.09	0.51
1:K:213:GLN:O	1:K:214:ALA:C	2.49	0.51
2:M:226:VAL:HG13	2:M:227:PHE:CD1	2.45	0.51
2:M:511:GLU:O	2:M:526:PRO:HD3	2.11	0.51
2:M:714:ASP:N	2:M:818:GLY:O	2.44	0.51
2:M:1008:ARG:HD2	2:M:1027:PHE:O	2.10	0.51
3:N:152:LEU:HD23	3:N:152:LEU:H	1.76	0.51
3:N:673:ALA:O	3:N:676:MET:HB3	2.10	0.51
5:P:138:SER:HB2	5:P:140:ARG:HG2	1.92	0.51
5:P:260:ILE:HD11	5:P:264:MET:HB3	1.93	0.51
1:B:85:LEU:HD12	1:B:124:ASN:CB	2.41	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:217:ILE:O	1:B:221:HIS:HB2	2.12	0.50
2:C:164:PRO:HB2	2:C:169:GLY:HA3	1.92	0.50
2:C:493:ARG:HB3	2:C:494:TYR:CE2	2.46	0.50
2:C:853:LEU:HB3	2:C:858:MET:CE	2.41	0.50
2:C:1021:LEU:HD21	5:F:332:PHE:HA	1.92	0.50
3:D:218:LYS:HG3	3:D:370:ALA:CB	2.40	0.50
3:D:240:GLU:O	3:D:244:GLU:N	2.45	0.50
3:D:378:ILE:H	3:D:378:ILE:CD1	2.10	0.50
3:D:522:PRO:HA	3:D:525:ARG:NH1	2.26	0.50
3:D:670:VAL:O	3:D:671:LYS:C	2.50	0.50
3:D:1441:GLN:NE2	3:D:1441:GLN:CA	2.72	0.50
5:F:405:LEU:O	5:F:408:LEU:HB3	2.11	0.50
1:K:113:ASP:OD2	1:K:113:ASP:N	2.44	0.50
1:K:206:THR:HG23	1:K:207:PRO:N	2.24	0.50
2:M:113:VAL:O	2:M:115:LEU:N	2.44	0.50
2:M:300:ASP:C	2:M:302:VAL:N	2.64	0.50
2:M:537:LYS:NZ	2:M:537:LYS:CB	2.75	0.50
3:N:56:TYR:CZ	3:N:66:GLN:HG3	2.45	0.50
3:N:545:ARG:NH1	3:N:545:ARG:HB2	2.26	0.50
3:N:1058:ARG:HH11	3:N:1058:ARG:CG	2.23	0.50
3:N:1438:ALA:C	3:N:1440:PHE:N	2.63	0.50
1:A:13:VAL:CG1	1:A:14:ARG:N	2.74	0.50
1:B:36:LEU:C	1:B:39:PRO:HD2	2.31	0.50
2:C:182:VAL:HG12	2:C:183:SER:N	2.26	0.50
2:C:183:SER:CB	2:C:190:LYS:CD	2.89	0.50
2:C:432:ARG:HH21	3:D:1048:PRO:HD2	1.76	0.50
2:C:517:ARG:HH11	2:C:517:ARG:HG3	1.76	0.50
2:C:607:ASP:O	2:C:608:GLY:C	2.47	0.50
2:C:855:VAL:CG1	2:C:856:GLU:N	2.74	0.50
2:C:1040:LEU:HD21	2:C:1048:THR:HG22	1.93	0.50
2:C:1059:ASP:O	2:C:1063:ARG:HG2	2.12	0.50
2:C:1102:LEU:HD23	2:C:1106:ASP:HA	1.92	0.50
3:D:122:GLU:O	3:D:122:GLU:CD	2.49	0.50
3:D:441:ARG:HG3	3:D:442:ASN:N	2.26	0.50
3:D:525:ARG:N	3:D:526:PRO:CD	2.74	0.50
3:D:896:ALA:HA	3:D:899:LEU:HD11	1.94	0.50
3:D:1190:SER:OG	3:D:1369:GLU:OE1	2.27	0.50
5:F:158:GLU:O	5:F:161:GLN:HB2	2.11	0.50
2:M:74:GLY:O	2:M:76:PRO:HD3	2.10	0.50
2:M:1039:ALA:HB3	3:N:713:ILE:HD12	1.94	0.50
3:N:84:ILE:O	3:N:86:ARG:N	2.45	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:149:LYS:HE2	3:N:151:GLN:HE21	1.75	0.50
3:N:234:GLU:O	3:N:240:GLU:HB3	2.11	0.50
3:N:385:VAL:HG12	3:N:387:LEU:CD1	2.40	0.50
3:N:434:ARG:HD3	3:N:434:ARG:N	2.26	0.50
3:N:699:VAL:HG12	3:N:717:GLN:HA	1.93	0.50
3:N:786:ILE:O	3:N:787:LEU:C	2.48	0.50
3:N:1043:GLY:CA	3:N:1057:VAL:H	2.24	0.50
5:P:298:GLY:O	5:P:303:ARG:NH1	2.43	0.50
1:A:58:ILE:HB	1:A:61:VAL:HB	1.94	0.50
1:B:112:ARG:HB3	1:B:112:ARG:NH1	2.27	0.50
1:B:180:GLN:OE1	1:B:198:ARG:NH2	2.44	0.50
2:C:71:TYR:HA	2:C:96:ALA:HB2	1.93	0.50
2:C:74:GLY:C	2:C:75:GLU:HG3	2.31	0.50
2:C:191:PHE:CD2	2:C:195:LEU:HD23	2.45	0.50
2:C:328:LEU:HD11	2:C:434:HIS:CD2	2.47	0.50
3:D:85:VAL:HB	3:D:89:ARG:CD	2.42	0.50
3:D:139:GLY:CA	3:D:147:VAL:HG13	2.41	0.50
3:D:1076:GLY:HA2	3:D:1079:LYS:CD	2.41	0.50
3:D:1313:VAL:HG22	3:D:1314:LYS:N	2.25	0.50
3:D:1432:LYS:HZ1	3:D:1460:ILE:HB	1.75	0.50
5:F:321:ILE:HD13	5:F:322:GLY:H	1.72	0.50
1:K:38:ASN:OD1	2:M:979:THR:C	2.48	0.50
1:L:101:LEU:HD11	1:L:113:ASP:HB2	1.92	0.50
1:L:167:VAL:HG12	1:L:168:ASP:O	2.10	0.50
2:M:290:LEU:HD23	2:M:290:LEU:N	2.18	0.50
2:M:483:VAL:HG12	2:M:484:VAL:N	2.26	0.50
2:M:606:VAL:HG11	2:M:643:VAL:O	2.12	0.50
2:M:606:VAL:O	2:M:606:VAL:HG23	2.11	0.50
2:M:640:ARG:HD3	2:M:642:ARG:HH22	1.74	0.50
3:N:101:HIS:CD2	3:N:103:TRP:HB2	2.47	0.50
3:N:196:VAL:HG22	3:N:204:LEU:CD2	2.39	0.50
3:N:397:LYS:NZ	3:N:399:ARG:HH21	2.09	0.50
3:N:676:MET:HE2	3:N:684:LYS:HG3	1.92	0.50
3:N:1440:PHE:CB	3:N:1442:ASN:OD1	2.57	0.50
4:O:63:TRP:O	4:O:66:LYS:N	2.44	0.50
5:P:184:ARG:O	5:P:188:ILE:HG12	2.11	0.50
5:P:418:LEU:O	5:P:420:ASP:N	2.44	0.50
2:C:670:GLN:HE22	2:C:699:PHE:HA	1.76	0.50
2:C:806:LEU:HD13	2:C:813:VAL:HG11	1.92	0.50
3:D:218:LYS:HD2	3:D:372:ASP:CG	2.32	0.50
3:D:535:PHE:CD1	5:F:258:ILE:CD1	2.95	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:710:ARG:NH1	3:D:1210:SER:OG	2.44	0.50
3:D:880:ILE:HD13	3:D:880:ILE:O	2.11	0.50
2:M:142:ARG:HH11	2:M:325:ILE:HG23	1.74	0.50
2:M:176:VAL:HG12	2:M:182:VAL:HG22	1.94	0.50
2:M:537:LYS:HA	2:M:905:ILE:CD1	2.38	0.50
2:M:601:GLY:HA3	2:M:615:TYR:HA	1.92	0.50
2:M:617:ASP:O	2:M:619:ARG:HG3	2.10	0.50
2:M:782:ALA:O	2:M:784:ASP:N	2.45	0.50
2:M:881:ASN:N	2:M:881:ASN:ND2	2.59	0.50
3:N:570:GLU:O	3:N:572:ARG:N	2.45	0.50
3:N:1008:PHE:O	3:N:1010:ASN:N	2.44	0.50
3:N:1066:THR:HG23	3:N:1069:GLU:HG3	1.94	0.50
3:N:1101:VAL:O	3:N:1101:VAL:HG22	2.11	0.50
1:A:5:LYS:O	1:A:8:ALA:CB	2.60	0.50
1:B:201:THR:HG22	1:B:202:ASP:N	2.26	0.50
2:C:51:THR:HG22	2:C:51:THR:O	2.12	0.50
2:C:200:LEU:HD22	2:C:300:ASP:N	2.27	0.50
2:C:203:ASP:O	2:C:207:LEU:HB2	2.12	0.50
2:C:676:ILE:O	3:D:948:THR:HG22	2.10	0.50
2:C:810:ASP:HB3	2:C:813:VAL:CG2	2.39	0.50
3:D:179:VAL:HG11	3:D:217:LYS:NZ	2.25	0.50
3:D:1042:ARG:NH1	3:D:1061:PHE:CZ	2.79	0.50
5:F:319:THR:HG23	5:F:320:PRO:HD2	1.93	0.50
2:M:281:LEU:HD23	2:M:281:LEU:H	1.77	0.50
2:M:586:ARG:HD2	2:M:590:ASP:OD2	2.12	0.50
2:M:603:VAL:HG21	2:M:643:VAL:CG1	2.42	0.50
2:M:608:GLY:C	2:M:609:ASN:HD22	2.14	0.50
2:M:610:ARG:C	2:M:611:ILE:HG13	2.32	0.50
2:M:1003:ASP:O	2:M:1004:LYS:C	2.48	0.50
3:N:162:ARG:HG3	3:N:434:ARG:HE	1.71	0.50
3:N:404:GLU:OE2	3:N:414:ARG:CZ	2.59	0.50
3:N:658:LEU:O	3:N:661:MET:HB2	2.11	0.50
3:N:804:LEU:HD12	3:N:831:GLY:CA	2.40	0.50
3:N:1072:ILE:O	3:N:1075:HIS:HD2	1.95	0.50
2:C:139:GLN:O	2:C:333:ILE:HA	2.11	0.50
2:C:235:LEU:O	2:C:239:PHE:HB2	2.12	0.50
2:C:285:LEU:HD13	2:C:301:GLU:HB3	1.94	0.50
2:C:403:SER:O	2:C:407:LYS:CE	2.59	0.50
2:C:826:TYR:N	2:C:826:TYR:HD1	2.09	0.50
2:C:905:ILE:HG22	2:C:906:PHE:CG	2.47	0.50
2:C:1005:MET:HE1	3:D:648:MET:HB2	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1092:LEU:HD13	2:C:1099:VAL:CG2	2.40	0.50
3:D:107:ASP:O	3:D:108:VAL:C	2.50	0.50
3:D:615:ARG:O	3:D:619:LEU:HB2	2.12	0.50
3:D:649:ALA:HA	3:D:652:LEU:HD22	1.94	0.50
3:D:711:LEU:O	3:D:714:GLN:HG3	2.12	0.50
3:D:731:LEU:HD11	3:D:931:LEU:HB3	1.93	0.50
3:D:973:GLN:HA	3:D:976:GLN:OE1	2.12	0.50
3:D:1080:GLY:O	3:D:1084:THR:HG23	2.11	0.50
3:D:1425:THR:HG22	3:D:1426:LYS:N	2.26	0.50
4:E:41:GLU:O	4:E:42:PRO:C	2.49	0.50
4:E:61:GLU:CD	4:E:62:THR:H	2.15	0.50
5:F:136:LEU:HD12	5:F:137:GLY:N	2.15	0.50
2:M:41:ASN:HA	2:M:45:GLN:OE1	2.12	0.50
2:M:355:VAL:HG23	2:M:372:LEU:HA	1.94	0.50
3:N:112:ILE:HG22	3:N:512:MET:CE	2.42	0.50
3:N:131:LYS:O	3:N:131:LYS:HG2	2.12	0.50
3:N:137:PRO:HG2	3:N:453:ASP:CG	2.32	0.50
3:N:166:GLN:HE21	3:N:167:GLU:C	2.15	0.50
3:N:658:LEU:HD23	3:N:661:MET:HE1	1.93	0.50
3:N:658:LEU:HA	3:N:661:MET:HE3	1.94	0.50
3:N:1389:LEU:H	3:N:1389:LEU:CD2	2.13	0.50
5:P:284:ARG:O	5:P:286:PRO:HD3	2.12	0.50
2:C:17:PRO:O	2:C:19:THR:N	2.45	0.50
2:C:243:ARG:HH11	2:C:243:ARG:HG2	1.77	0.50
2:C:824:ARG:HB3	2:C:826:TYR:HE1	1.76	0.50
3:D:400:VAL:HG13	3:D:442:ASN:C	2.32	0.50
3:D:603:LEU:O	3:D:606:ILE:HG13	2.12	0.50
3:D:1394:VAL:HG21	3:D:1397:LYS:HE2	1.93	0.50
3:D:1490:LYS:HD2	4:E:93:TYR:OH	2.11	0.50
1:K:72:LYS:HA	2:M:607:ASP:O	2.11	0.50
1:L:1:MET:CE	1:L:1:MET:H3	2.24	0.50
1:L:58:ILE:HG22	1:L:59:GLU:HG2	1.93	0.50
1:L:117:VAL:HB	1:L:120:VAL:HB	1.94	0.50
2:M:379:GLU:O	2:M:383:ARG:HB3	2.12	0.50
2:M:474:VAL:HG22	2:M:476:GLY:O	2.12	0.50
2:M:737:LEU:HA	2:M:743:VAL:HA	1.93	0.50
2:M:833:LEU:HD13	2:M:996:LYS:HD2	1.94	0.50
3:N:45:PHE:CD1	3:N:522:PRO:HB3	2.47	0.50
3:N:128:TYR:HE1	3:N:461:ILE:HG13	1.76	0.50
3:N:187:LYS:HZ3	3:N:445:ARG:HH22	1.59	0.50
3:N:394:LEU:HD12	3:N:394:LEU:N	2.26	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:914:LEU:O	3:N:918:ALA:HB2	2.12	0.50
3:N:1474:ALA:O	3:N:1475:GLY:C	2.50	0.50
1:A:206:THR:HB	1:A:209:GLU:CB	2.41	0.50
2:C:431:HIS:C	2:C:433:THR:H	2.14	0.50
2:C:588:VAL:HG23	2:C:596:TYR:OH	2.12	0.50
2:C:690:ILE:CG2	2:C:691:SER:N	2.75	0.50
2:C:1014:SER:HA	5:F:333:ILE:O	2.11	0.50
3:D:52:PRO:HG3	3:D:78:VAL:HG13	1.93	0.50
3:D:220:ARG:HH11	3:D:222:GLY:HA3	1.76	0.50
3:D:402:PRO:HB2	3:D:413:ASP:O	2.12	0.50
3:D:826:PRO:O	3:D:836:VAL:HG11	2.11	0.50
3:D:858:VAL:HG12	3:D:862:ASP:HB3	1.94	0.50
3:D:1086:LEU:HD22	6:D:1525:STD:C11	2.40	0.50
3:D:1155:VAL:HG21	3:D:1183:ILE:CD1	2.41	0.50
4:E:26:ARG:O	4:E:29:GLN:HG2	2.10	0.50
4:E:51:LEU:HD12	4:E:52:GLU:C	2.32	0.50
1:L:173:PRO:HB3	1:L:202:ASP:OD1	2.12	0.50
2:M:41:ASN:O	2:M:46:ALA:HB2	2.11	0.50
2:M:244:PRO:HG2	2:M:245:GLY:H	1.76	0.50
2:M:1115:LEU:HD13	3:N:85:VAL:CG1	2.41	0.50
3:N:131:LYS:HE3	3:N:568:ARG:HG2	1.94	0.50
3:N:423:ASP:N	5:P:178:ARG:HE	2.10	0.50
3:N:1346:ARG:HG3	3:N:1346:ARG:HH11	1.77	0.50
4:O:70:THR:HG21	4:O:72:ARG:CZ	2.41	0.50
2:C:139:GLN:O	2:C:334:ARG:N	2.40	0.50
2:C:313:LEU:HD13	2:C:321:GLU:HB2	1.93	0.50
2:C:338:GLU:HA	2:C:341:THR:CG2	2.42	0.50
2:C:437:ARG:NH2	2:C:488:ALA:HA	2.27	0.50
3:D:93:ILE:O	3:D:95:LEU:HD12	2.11	0.50
3:D:98:PRO:HG2	3:D:462:GLN:NE2	2.20	0.50
3:D:613:ARG:HG3	3:D:613:ARG:NH1	2.25	0.50
3:D:728:LEU:HD12	3:D:729:HIS:N	2.25	0.50
3:D:796:ARG:HD2	3:D:861:GLN:O	2.11	0.50
3:D:1114:THR:O	3:D:1116:ASN:N	2.44	0.50
3:D:1495:ILE:HG23	3:D:1499:ARG:NH2	2.24	0.50
5:F:131:VAL:HG13	5:F:178:ARG:HD3	1.94	0.50
2:M:768:THR:CB	2:M:771:GLU:HB3	2.42	0.50
2:M:1058:ASP:O	2:M:1060:ILE:N	2.45	0.50
3:N:658:LEU:HD11	3:N:674:ARG:HH11	1.76	0.50
3:N:665:GLY:O	3:N:667:ALA:N	2.45	0.50
3:N:668:PRO:HD2	3:N:672:ALA:CB	2.33	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:773:ALA:O	3:N:774:SER:CB	2.60	0.50
3:N:935:LYS:HG2	3:N:939:PHE:HE1	1.72	0.50
4:O:9:LEU:HD21	4:O:69:LEU:HG	1.93	0.50
5:P:120:THR:C	5:P:122:LEU:H	2.15	0.50
2:C:966:LEU:HD21	2:C:986:PRO:CG	2.30	0.49
3:D:172:PRO:CA	3:D:178:LEU:HD12	2.42	0.49
3:D:568:ARG:O	3:D:571:LYS:N	2.45	0.49
3:D:703:ASN:ND2	3:D:704:ARG:N	2.60	0.49
3:D:765:SER:OG	3:D:766:ALA:N	2.45	0.49
5:F:164:LYS:CA	5:F:171:LYS:HZ2	2.25	0.49
1:L:7:LYS:O	1:L:7:LYS:HG2	2.10	0.49
1:L:80:LEU:HD13	3:N:842:VAL:HG12	1.94	0.49
1:L:142:VAL:HG23	1:L:142:VAL:O	2.12	0.49
2:M:89:THR:O	2:M:91:GLN:N	2.45	0.49
2:M:165:LEU:HA	2:M:166:PRO:C	2.32	0.49
2:M:327:HIS:C	2:M:329:GLY:H	2.15	0.49
2:M:338:GLU:HG2	2:M:342:ASP:OD2	2.12	0.49
2:M:483:VAL:HG12	2:M:484:VAL:H	1.77	0.49
3:N:216:VAL:CG1	3:N:221:ALA:HA	2.40	0.49
3:N:444:VAL:O	3:N:446:VAL:HG23	2.11	0.49
3:N:479:GLU:O	3:N:481:MET:N	2.45	0.49
3:N:593:ASN:O	3:N:594:PRO:O	2.30	0.49
3:N:604:THR:C	3:N:606:ILE:N	2.63	0.49
3:N:650:LEU:HG	3:N:650:LEU:O	2.11	0.49
3:N:795:VAL:HG23	3:N:879:ARG:CZ	2.42	0.49
5:P:202:TYR:CD1	5:P:247:ILE:HG21	2.47	0.49
5:P:316:SER:C	5:P:318:GLU:H	2.16	0.49
1:A:41:ARG:HA	1:A:44:LEU:HD12	1.94	0.49
1:A:99:LEU:HB2	1:A:142:VAL:CG2	2.42	0.49
1:A:199:ILE:HD12	1:A:199:ILE:N	2.27	0.49
2:C:196:LEU:HD23	2:C:196:LEU:O	2.12	0.49
2:C:431:HIS:CD2	2:C:432:ARG:N	2.80	0.49
2:C:1090:LYS:HE2	2:C:1112:PHE:CZ	2.47	0.49
2:C:1111:ILE:O	2:C:1113:GLU:N	2.45	0.49
3:D:140:ALA:O	3:D:141:ILE:O	2.30	0.49
3:D:565:ILE:H	3:D:565:ILE:CD1	2.03	0.49
3:D:598:ARG:HD2	3:D:599:PRO:CD	2.40	0.49
3:D:959:GLU:O	3:D:963:TYR:CD1	2.65	0.49
1:L:86:VAL:CG1	1:L:124:ASN:HB2	2.42	0.49
1:L:176:ARG:H	1:L:200:TRP:CB	2.24	0.49
2:M:418:LEU:O	2:M:419:THR:O	2.30	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:421:GLU:O	2:M:422:ARG:HB2	2.12	0.49
2:M:517:ARG:HG3	2:M:517:ARG:HH11	1.77	0.49
3:N:99:ALA:HA	3:N:575:GLN:NE2	2.28	0.49
3:N:479:GLU:HA	3:N:483:HIS:NE2	2.28	0.49
3:N:764:LEU:CD2	3:N:766:ALA:HB3	2.42	0.49
3:N:800:LYS:HB2	3:N:829:VAL:HG12	1.93	0.49
4:O:79:LEU:O	4:O:79:LEU:HD13	2.12	0.49
5:P:272:SER:O	5:P:275:ALA:N	2.44	0.49
5:P:418:LEU:N	5:P:418:LEU:HD12	2.27	0.49
1:B:57:TYR:HE1	1:B:163:ASN:HB2	1.75	0.49
1:B:143:ARG:HG2	1:B:145:ASP:OD1	2.13	0.49
2:C:185:LYS:HE3	2:C:185:LYS:N	2.25	0.49
2:C:438:ILE:HA	2:C:455:LEU:HA	1.93	0.49
2:C:491:GLU:O	2:C:493:ARG:N	2.46	0.49
2:C:607:ASP:O	2:C:610:ARG:N	2.45	0.49
3:D:91:GLY:O	3:D:519:VAL:N	2.45	0.49
3:D:560:GLN:NE2	5:F:218:GLN:HE22	2.10	0.49
3:D:633:VAL:HG22	3:D:635:PRO:HD3	1.95	0.49
3:D:783:ARG:HH21	3:D:1029:ARG:HG3	1.77	0.49
3:D:845:ASN:O	3:D:846:PRO:C	2.50	0.49
3:D:1282:ARG:HH12	3:D:1293:PHE:HD2	1.61	0.49
3:D:1457:ASP:OD1	3:D:1459:LEU:HD23	2.11	0.49
5:F:94:LEU:HD12	5:F:96:LEU:H	1.74	0.49
5:F:262:VAL:O	5:F:265:VAL:HB	2.12	0.49
1:K:212:ASN:O	1:K:215:VAL:HG22	2.12	0.49
1:L:86:VAL:HG12	1:L:124:ASN:HB2	1.93	0.49
2:M:129:ILE:N	2:M:129:ILE:CD1	2.75	0.49
2:M:287:GLY:O	2:M:288:ARG:C	2.50	0.49
2:M:899:GLN:HG3	2:M:901:TYR:CZ	2.47	0.49
2:M:923:GLU:O	2:M:927:GLY:HA3	2.12	0.49
2:M:983:ILE:O	2:M:984:GLU:C	2.50	0.49
2:M:1047:HIS:O	2:M:1050:GLN:CB	2.57	0.49
3:N:30:GLU:HG3	3:N:41:ARG:HE	1.77	0.49
3:N:434:ARG:HG2	3:N:447:VAL:CG2	2.42	0.49
3:N:598:ARG:HH22	5:P:318:GLU:HG3	1.77	0.49
3:N:792:ILE:HG23	3:N:793:THR:HG23	1.94	0.49
3:N:895:VAL:HG11	3:N:922:LEU:HD21	1.94	0.49
3:N:1008:PHE:O	3:N:1009:LYS:C	2.49	0.49
3:N:1397:LYS:NZ	3:N:1432:LYS:HB3	2.26	0.49
5:P:156:VAL:HG13	5:P:157:GLU:H	1.77	0.49
5:P:323:ASP:O	5:P:324:GLU:C	2.51	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:211:LEU:O	1:B:214:ALA:HB3	2.12	0.49
2:C:49:ARG:HH11	2:C:49:ARG:CA	2.25	0.49
2:C:602:GLU:HB3	2:C:614:ARG:CB	2.40	0.49
2:C:691:SER:N	2:C:868:ASP:O	2.46	0.49
2:C:789:SER:HB2	2:C:791:ARG:HE	1.77	0.49
2:C:1059:ASP:OD2	2:C:1080:SER:HB2	2.12	0.49
3:D:118:LEU:O	3:D:120:ALA:N	2.45	0.49
3:D:122:GLU:O	3:D:122:GLU:OE1	2.31	0.49
3:D:433:GLY:N	3:D:448:GLU:HA	2.26	0.49
3:D:503:LEU:O	3:D:504:ASP:O	2.30	0.49
3:D:567:ILE:HG22	3:D:571:LYS:HZ1	1.77	0.49
3:D:575:GLN:O	3:D:579:ASP:OD1	2.30	0.49
3:D:699:VAL:HG12	3:D:717:GLN:CB	2.42	0.49
3:D:911:LEU:O	3:D:914:LEU:N	2.46	0.49
3:D:1014:ASN:O	3:D:1015:TYR:HD1	1.96	0.49
3:D:1047:LYS:HB2	3:D:1049:SER:OG	2.12	0.49
3:D:1373:ARG:CG	3:D:1374:GLN:HE21	2.25	0.49
4:E:44:GLU:O	4:E:45:ARG:HD3	2.13	0.49
5:F:243:ILE:O	5:F:247:ILE:HG13	2.12	0.49
1:K:73:GLU:OE1	1:K:130:ALA:HA	2.13	0.49
2:M:147:TYR:CE2	2:M:276:LYS:HD3	2.48	0.49
2:M:417:GLY:C	2:M:418:LEU:HD22	2.33	0.49
2:M:516:ARG:NH2	3:N:1068:LEU:HB2	2.27	0.49
2:M:1085:PHE:O	2:M:1086:ARG:C	2.50	0.49
3:N:14:SER:OG	3:N:511:TRP:NE1	2.43	0.49
3:N:131:LYS:HB2	3:N:572:ARG:HH21	1.77	0.49
3:N:239:GLY:C	3:N:241:ILE:H	2.15	0.49
3:N:628:ARG:HA	3:N:745:MET:O	2.13	0.49
3:N:658:LEU:HD23	3:N:661:MET:CE	2.43	0.49
3:N:1107:VAL:HG12	3:N:1217:ILE:HA	1.93	0.49
3:N:1438:ALA:O	3:N:1440:PHE:N	2.45	0.49
3:N:1500:LYS:O	3:N:1503:VAL:HG23	2.13	0.49
5:P:346:THR:O	5:P:348:SER:N	2.45	0.49
1:A:53:VAL:HG21	1:A:82:LEU:HB3	1.95	0.49
1:B:167:VAL:HG12	1:B:168:ASP:H	1.77	0.49
2:C:140:ILE:HG21	2:C:331:ARG:NH1	2.28	0.49
2:C:589:ARG:HD3	2:C:596:TYR:CE2	2.47	0.49
2:C:860:HIS:CE1	2:C:977:GLY:HA2	2.46	0.49
2:C:892:LEU:HD12	2:C:892:LEU:O	2.12	0.49
3:D:135:LEU:HD23	3:D:136:ASP:O	2.12	0.49
3:D:245:LEU:CD1	3:D:366:LYS:HE2	2.43	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:543:LEU:O	3:D:546:ARG:HB2	2.13	0.49
3:D:806:PHE:CD1	3:D:812:ALA:HB3	2.48	0.49
3:D:911:LEU:O	3:D:912:LYS:C	2.50	0.49
3:D:1262:LEU:C	3:D:1264:GLU:H	2.16	0.49
1:L:112:ARG:CZ	1:L:112:ARG:HB3	2.43	0.49
2:M:374:ASN:O	2:M:377:PRO:HD2	2.12	0.49
3:N:13:ALA:HB1	3:N:18:ILE:CD1	2.41	0.49
3:N:385:VAL:HG12	3:N:387:LEU:HD12	1.94	0.49
3:N:535:PHE:O	5:P:314:PRO:CA	2.60	0.49
3:N:769:LEU:N	3:N:769:LEU:CD1	2.76	0.49
3:N:988:ARG:NH1	3:N:992:ILE:HD11	2.27	0.49
3:N:1263:PHE:CE2	3:N:1371:VAL:HG11	2.48	0.49
3:N:1320:GLU:HG3	3:N:1323:GLN:NE2	2.27	0.49
4:O:6:ILE:HG23	4:O:7:ASP:N	2.27	0.49
1:B:32:PHE:C	1:B:34:VAL:N	2.63	0.49
1:B:33:GLY:C	1:B:181:VAL:HG21	2.33	0.49
1:B:47:SER:O	1:B:48:ILE:C	2.50	0.49
1:B:108:GLU:CD	1:B:131:THR:HG22	2.33	0.49
1:B:207:PRO:O	1:B:208:LEU:C	2.51	0.49
2:C:69:LEU:HB2	2:C:97:ARG:O	2.13	0.49
2:C:443:THR:HG23	2:C:444:PRO:CD	2.41	0.49
2:C:497:ALA:HA	2:C:515:ALA:HA	1.93	0.49
2:C:544:THR:HA	2:C:547:ILE:CD1	2.42	0.49
2:C:580:MET:O	2:C:902:ILE:HG23	2.13	0.49
2:C:882:LEU:HD11	3:D:1038:LEU:HD22	1.93	0.49
3:D:12:LEU:HD21	3:D:104:PHE:HE1	1.78	0.49
3:D:177:ALA:O	3:D:199:LEU:HD13	2.12	0.49
3:D:656:PHE:HE1	3:D:751:LEU:HD23	1.78	0.49
3:D:699:VAL:HA	3:D:717:GLN:HA	1.95	0.49
3:D:731:LEU:CD1	3:D:931:LEU:HB3	2.43	0.49
3:D:1118:ILE:HD11	3:D:1346:ARG:NH1	2.27	0.49
3:D:1231:GLU:O	3:D:1232:PRO:C	2.51	0.49
5:F:367:MET:HA	5:F:370:LYS:HB3	1.95	0.49
2:M:135:VAL:HG11	2:M:406:HIS:HD1	1.75	0.49
2:M:197:LEU:HD13	2:M:207:LEU:CD1	2.43	0.49
2:M:478:VAL:HG13	2:M:506:ASN:CB	2.32	0.49
2:M:551:GLU:CG	2:M:906:PHE:HA	2.42	0.49
3:N:35:ARG:CB	3:N:35:ARG:HH11	2.25	0.49
3:N:428:LYS:NZ	5:P:138:SER:OG	2.45	0.49
3:N:661:MET:SD	3:N:673:ALA:HB1	2.52	0.49
3:N:1435:LEU:O	3:N:1437:ALA:N	2.46	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:O:7:ASP:O	4:O:10:PHE:HB2	2.13	0.49
5:P:77:THR:CA	5:P:80:PRO:HD2	2.42	0.49
5:P:198:ILE:HD11	5:P:240:THR:HG23	1.94	0.49
1:B:23:PHE:CD2	1:B:211:LEU:HD22	2.48	0.49
1:B:54:THR:O	1:B:167:VAL:HB	2.12	0.49
1:B:213:GLN:O	1:B:217:ILE:HG13	2.13	0.49
2:C:24:GLU:O	2:C:27:ARG:HB3	2.13	0.49
2:C:283:ILE:HG22	2:C:284:ARG:HG3	1.93	0.49
2:C:580:MET:HB3	2:C:584:GLU:CD	2.33	0.49
2:C:651:LYS:HG3	2:C:652:GLY:N	2.28	0.49
2:C:691:SER:C	2:C:693:GLU:H	2.15	0.49
2:C:928:LYS:O	2:C:931:GLY:N	2.40	0.49
3:D:89:ARG:HG2	3:D:89:ARG:HH11	1.77	0.49
3:D:122:GLU:O	3:D:126:VAL:HG23	2.12	0.49
3:D:695:ILE:O	3:D:696:HIS:C	2.50	0.49
3:D:890:VAL:HG12	3:D:926:LYS:HG2	1.94	0.49
3:D:965:GLU:HG3	3:D:969:ARG:NH2	2.27	0.49
3:D:1281:VAL:HB	3:D:1316:GLY:H	1.78	0.49
5:F:161:GLN:CA	5:F:164:LYS:HE2	2.21	0.49
5:F:316:SER:OG	5:F:318:GLU:HG2	2.13	0.49
2:M:1099:VAL:HA	3:N:9:ARG:O	2.12	0.49
3:N:434:ARG:HD3	3:N:434:ARG:H	1.77	0.49
3:N:434:ARG:CD	3:N:434:ARG:H	2.24	0.49
3:N:790:TYR:HD2	3:N:906:GLN:O	1.95	0.49
3:N:911:LEU:O	3:N:912:LYS:C	2.50	0.49
3:N:1422:MET:CE	3:N:1427:SER:HA	2.42	0.49
1:A:182:GLU:OE2	2:C:935:GLY:N	2.43	0.49
2:C:148:PHE:CE1	2:C:309:TYR:HD2	2.31	0.49
2:C:751:PRO:CG	2:C:796:GLU:HA	2.42	0.49
2:C:840:ALA:HB2	2:C:846:LYS:HA	1.93	0.49
2:C:841:ASN:ND2	2:C:845:ASN:H	2.03	0.49
3:D:112:ILE:O	3:D:116:LEU:HB2	2.13	0.49
3:D:119:SER:H	3:D:123:LEU:CD1	2.26	0.49
3:D:191:LEU:HD12	3:D:211:VAL:CG2	2.37	0.49
3:D:217:LYS:CE	3:D:389:GLU:HB3	2.42	0.49
3:D:465:LEU:HD13	3:D:509:PRO:O	2.12	0.49
3:D:716:PHE:N	3:D:716:PHE:CD1	2.80	0.49
3:D:860:LEU:HD22	3:D:878:GLY:HA2	1.95	0.49
3:D:1107:VAL:HB	3:D:1219:GLU:H	1.77	0.49
5:F:154:LYS:O	5:F:158:GLU:CG	2.54	0.49
5:F:350:LEU:HD13	5:F:422:LEU:HB2	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:72:ARG:HG3	2:M:72:ARG:NH1	2.27	0.49
2:M:167:LYS:C	2:M:169:GLY:N	2.65	0.49
2:M:259:GLY:HA2	2:M:290:LEU:O	2.13	0.49
2:M:336:VAL:HA	2:M:339:LEU:HB2	1.94	0.49
2:M:398:THR:CG2	2:M:635:THR:HG21	2.43	0.49
2:M:491:GLU:C	2:M:493:ARG:H	2.15	0.49
2:M:537:LYS:NZ	2:M:537:LYS:HB2	2.28	0.49
2:M:537:LYS:N	2:M:905:ILE:HD11	2.28	0.49
2:M:692:GLU:O	2:M:693:GLU:C	2.51	0.49
2:M:1085:PHE:CD2	2:M:1088:LEU:HD23	2.47	0.49
3:N:55:ASP:HB3	3:N:82:LYS:HE2	1.95	0.49
3:N:76:CYS:O	3:N:78:VAL:HG23	2.13	0.49
3:N:573:MET:CE	5:P:214:GLN:HG3	2.42	0.49
3:N:814:ALA:O	3:N:818:ARG:HG3	2.13	0.49
3:N:1007:VAL:HG23	3:N:1008:PHE:N	2.27	0.49
3:N:1128:VAL:O	3:N:1130:ARG:N	2.46	0.49
5:P:94:LEU:HD12	5:P:96:LEU:H	1.78	0.49
1:A:56:VAL:HG12	1:A:57:TYR:N	2.27	0.49
1:B:20:TYR:HE2	1:B:198:ARG:HB3	1.78	0.49
1:B:95:GLN:O	1:B:96:THR:HB	2.13	0.49
2:C:235:LEU:O	2:C:235:LEU:HD23	2.12	0.49
2:C:1030:GLN:HB2	3:D:626:SER:CB	2.43	0.49
2:C:1089:VAL:HB	2:C:1112:PHE:HZ	1.76	0.49
3:D:19:ARG:O	3:D:22:SER:N	2.35	0.49
3:D:486:ARG:HA	3:D:486:ARG:HE	1.78	0.49
3:D:1062:ARG:O	3:D:1062:ARG:HD3	2.13	0.49
3:D:1277:ILE:HD11	3:D:1301:LYS:HB2	1.94	0.49
3:D:1426:LYS:HB2	3:D:1426:LYS:NZ	2.27	0.49
2:M:415:PRO:CG	2:M:418:LEU:HD23	2.42	0.49
2:M:572:ILE:HG13	2:M:573:ARG:N	2.27	0.49
2:M:742:VAL:HG12	2:M:743:VAL:N	2.27	0.49
2:M:775:ARG:HH11	2:M:782:ALA:HB3	1.76	0.49
2:M:925:TYR:CD2	2:M:967:PHE:CE1	3.00	0.49
3:N:739:ASP:O	3:N:743:ASP:OD2	2.31	0.49
3:N:862:ASP:O	3:N:876:SER:HB2	2.13	0.49
3:N:925:GLU:OE1	4:O:7:ASP:HB2	2.13	0.49
3:N:1086:LEU:HG	3:N:1090:ASP:OD2	2.12	0.49
5:P:191:ASN:C	5:P:193:ARG:H	2.15	0.49
5:P:344:ALA:O	5:P:348:SER:HB3	2.13	0.49
5:P:416:ARG:NE	5:P:419:ARG:HD2	2.28	0.49
1:A:32:PHE:O	1:A:34:VAL:N	2.46	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:67:THR:HG21	2:C:609:ASN:CG	2.33	0.49
2:C:292:ARG:HD2	2:C:299:LYS:CD	2.43	0.49
2:C:496:ILE:O	2:C:515:ALA:CB	2.60	0.49
2:C:957:LYS:HG2	2:C:961:GLU:HB2	1.95	0.49
2:C:1058:ASP:OD1	2:C:1084:SER:OG	2.19	0.49
2:C:1102:LEU:HD13	3:D:9:ARG:CB	2.40	0.49
3:D:228:ALA:O	3:D:231:VAL:HG22	2.13	0.49
3:D:703:ASN:ND2	3:D:704:ARG:H	2.08	0.49
3:D:1096:ARG:CB	3:D:1096:ARG:HH11	2.26	0.49
1:K:58:ILE:HG21	1:K:68:ILE:HD11	1.95	0.49
1:L:101:LEU:HD12	1:L:113:ASP:C	2.33	0.49
2:M:101:ILE:HG22	2:M:102:HIS:N	2.28	0.49
2:M:545:ASN:HA	2:M:905:ILE:HG21	1.95	0.49
2:M:680:ASP:OD2	3:N:943:THR:HG21	2.13	0.49
2:M:708:TYR:N	2:M:708:TYR:CD1	2.80	0.49
2:M:715:THR:HG22	2:M:716:LYS:N	2.27	0.49
2:M:1030:GLN:H	3:N:626:SER:CB	2.26	0.49
3:N:131:LYS:HE2	3:N:456:MET:HE2	1.94	0.49
3:N:1307:LYS:C	3:N:1309:ALA:H	2.16	0.49
5:P:181:GLU:OE1	5:P:185:GLN:HG2	2.12	0.49
1:A:208:LEU:O	1:A:209:GLU:C	2.49	0.48
2:C:41:ASN:HD22	2:C:41:ASN:H	1.61	0.48
2:C:313:LEU:C	2:C:315:ALA:H	2.15	0.48
2:C:621:VAL:HG12	2:C:622:GLU:O	2.12	0.48
2:C:701:THR:CG2	2:C:832:LYS:HA	2.43	0.48
2:C:749:VAL:HG23	2:C:749:VAL:O	2.12	0.48
2:C:841:ASN:ND2	2:C:841:ASN:H	2.09	0.48
3:D:795:VAL:CG1	3:D:796:ARG:H	2.26	0.48
3:D:853:VAL:HG11	3:D:860:LEU:HG	1.94	0.48
3:D:932:ASP:HA	3:D:935:LYS:HE2	1.94	0.48
3:D:1151:ARG:O	3:D:1152:GLU:O	2.30	0.48
3:D:1228:SER:O	3:D:1232:PRO:HD2	2.12	0.48
1:L:101:LEU:HD22	1:L:140:MET:CE	2.43	0.48
2:M:18:LEU:HA	2:M:408:ARG:HH22	1.75	0.48
2:M:167:LYS:HZ3	2:M:168:ARG:HH21	1.61	0.48
2:M:539:VAL:HG21	3:N:1067:VAL:CG1	2.42	0.48
2:M:544:THR:O	2:M:547:ILE:HG13	2.13	0.48
2:M:683:ASN:HA	2:M:687:ALA:HB3	1.94	0.48
2:M:728:HIS:O	2:M:729:LEU:HD22	2.13	0.48
2:M:1101:THR:HB	3:N:5:VAL:HG22	1.94	0.48
3:N:187:LYS:HZ1	3:N:212:ARG:HG3	1.78	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:557:LEU:O	3:N:562:ALA:HB2	2.13	0.48
3:N:804:LEU:HD12	3:N:831:GLY:HA3	1.95	0.48
3:N:834:THR:HB	3:N:838:ARG:HB2	1.94	0.48
3:N:1042:ARG:O	3:N:1042:ARG:CG	2.60	0.48
3:N:1353:GLN:OE1	3:N:1353:GLN:HA	2.12	0.48
1:A:41:ARG:NH1	1:A:177:VAL:O	2.45	0.48
2:C:8:ARG:HD3	2:C:10:ARG:NH1	2.28	0.48
2:C:144:PRO:O	2:C:276:LYS:HG2	2.13	0.48
2:C:332:ARG:HG3	2:C:465:GLY:O	2.12	0.48
2:C:939:ARG:O	2:C:942:GLU:N	2.46	0.48
2:C:1102:LEU:HD23	2:C:1106:ASP:CA	2.43	0.48
3:D:10:ILE:HG22	3:D:11:ALA:N	2.28	0.48
3:D:95:LEU:HD12	3:D:95:LEU:N	2.28	0.48
3:D:104:PHE:CE2	3:D:1448:THR:HG23	2.48	0.48
3:D:633:VAL:HG13	3:D:635:PRO:HD3	1.95	0.48
3:D:1263:PHE:O	3:D:1424:VAL:HG23	2.13	0.48
4:E:10:PHE:CZ	4:E:16:LYS:HG3	2.48	0.48
5:F:208:SER:O	5:F:212:LEU:HG	2.12	0.48
5:F:282:LEU:HD12	5:F:284:ARG:CB	2.42	0.48
1:K:143:ARG:NH2	1:K:145:ASP:OD2	2.46	0.48
1:K:202:ASP:OD2	1:K:203:GLY:N	2.45	0.48
2:M:495:THR:N	2:M:530:GLU:OE1	2.43	0.48
2:M:677:MET:CE	2:M:983:ILE:HD12	2.43	0.48
2:M:987:ILE:HD12	3:N:948:THR:CG2	2.42	0.48
2:M:1012:PRO:O	2:M:1013:TYR:CG	2.67	0.48
2:M:1092:LEU:HD12	2:M:1092:LEU:N	2.28	0.48
3:N:127:LEU:HD22	3:N:134:VAL:CG2	2.43	0.48
3:N:177:ALA:HB1	3:N:199:LEU:CD2	2.42	0.48
5:P:369:LEU:HB3	5:P:373:LYS:CD	2.43	0.48
5:P:406:ARG:HG2	5:P:409:LYS:CE	2.43	0.48
1:A:109:VAL:HG23	1:A:132:LEU:HD13	1.95	0.48
2:C:266:ARG:HD3	2:C:288:ARG:HH11	1.78	0.48
2:C:333:ILE:HD12	2:C:333:ILE:N	2.29	0.48
2:C:408:ARG:NH1	2:C:542:VAL:HG23	2.27	0.48
2:C:937:ASP:C	2:C:939:ARG:H	2.15	0.48
2:C:972:VAL:HG23	2:C:974:LEU:HD13	1.96	0.48
2:C:976:ASP:C	2:C:978:ARG:H	2.16	0.48
3:D:180:LYS:HE2	3:D:219:GLU:HB2	1.96	0.48
3:D:218:LYS:HG3	3:D:370:ALA:HB1	1.94	0.48
3:D:444:VAL:HG22	3:D:444:VAL:O	2.13	0.48
3:D:1357:ARG:C	3:D:1359:GLN:N	2.66	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1484:THR:HG22	3:D:1485:GLN:H	1.76	0.48
4:E:26:ARG:NH2	4:E:39:VAL:HG13	2.29	0.48
1:K:91:ASN:CG	1:K:92:PRO:CD	2.82	0.48
1:L:99:LEU:HD21	1:L:114:PHE:HB3	1.95	0.48
1:L:137:ARG:HG2	1:L:137:ARG:NH1	2.28	0.48
2:M:15:LEU:HB3	2:M:16:PRO:HD2	1.95	0.48
2:M:227:PHE:C	2:M:229:MET:H	2.16	0.48
2:M:260:LEU:HA	2:M:291:ALA:HB2	1.95	0.48
2:M:535:SER:O	2:M:538:GLN:HG2	2.13	0.48
2:M:705:ILE:HG12	2:M:828:ALA:HB2	1.94	0.48
2:M:775:ARG:NH1	2:M:782:ALA:HB3	2.28	0.48
2:M:1019:GLN:HE22	3:N:621:LYS:CA	2.26	0.48
3:N:70:GLY:C	3:N:71:LYS:HD3	2.33	0.48
3:N:84:ILE:C	3:N:86:ARG:N	2.67	0.48
3:N:648:MET:O	3:N:652:LEU:HD22	2.13	0.48
3:N:661:MET:HE2	3:N:677:LEU:HD11	1.95	0.48
5:P:369:LEU:HA	5:P:372:ARG:HB2	1.96	0.48
1:A:147:GLY:HA3	1:A:171:PHE:CE2	2.49	0.48
1:B:153:ALA:O	1:B:156:HIS:HD2	1.97	0.48
2:C:200:LEU:HD13	2:C:300:ASP:CG	2.33	0.48
2:C:535:SER:H	2:C:538:GLN:HE21	1.61	0.48
2:C:758:ARG:HG2	2:C:759:THR:H	1.79	0.48
2:C:1034:GLU:O	2:C:1037:VAL:N	2.46	0.48
3:D:215:TYR:O	3:D:389:GLU:HA	2.14	0.48
3:D:582:LEU:O	3:D:603:LEU:HB2	2.13	0.48
3:D:1120:VAL:HG23	3:D:1188:VAL:HG11	1.94	0.48
5:F:78:SER:HB2	5:F:82:ARG:HH21	1.78	0.48
5:F:136:LEU:CD1	5:F:137:GLY:N	2.76	0.48
1:L:162:ILE:C	1:L:163:ASN:HD22	2.17	0.48
2:M:122:THR:HG22	2:M:123:GLU:N	2.28	0.48
2:M:151:ASP:H	2:M:158:TYR:HA	1.78	0.48
2:M:384:GLU:HG3	2:M:388:ARG:NE	2.28	0.48
2:M:561:GLY:O	2:M:564:MET:HB2	2.13	0.48
2:M:670:GLN:NE2	2:M:699:PHE:CG	2.81	0.48
3:N:371:ILE:HD12	3:N:371:ILE:C	2.34	0.48
3:N:622:ARG:HG2	3:N:622:ARG:HH11	1.77	0.48
3:N:658:LEU:HD13	3:N:674:ARG:HG2	1.94	0.48
3:N:858:VAL:CG1	3:N:859:ASP:H	2.22	0.48
3:N:1034:GLN:O	3:N:1038:LEU:CD1	2.62	0.48
3:N:1238:MET:CG	3:N:1239:ARG:N	2.76	0.48
5:P:90:GLN:HG2	5:P:90:GLN:O	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:101:LEU:HG	1:A:102:LYS:H	1.79	0.48
1:A:184:THR:CG2	1:A:192:LEU:HB2	2.43	0.48
1:A:227:ASN:O	1:A:227:ASN:ND2	2.46	0.48
2:C:254:VAL:HG22	2:C:258:TYR:CE1	2.48	0.48
2:C:345:ARG:NH1	2:C:345:ARG:HB3	2.28	0.48
2:C:545:ASN:HA	2:C:905:ILE:HD11	1.95	0.48
3:D:586:ARG:NH1	3:D:1444:THR:HG21	2.29	0.48
3:D:606:ILE:HA	3:D:613:ARG:HD2	1.95	0.48
3:D:1264:GLU:CG	3:D:1266:ARG:CZ	2.83	0.48
3:D:1372:VAL:HG22	3:D:1375:MET:HE1	1.91	0.48
3:D:1480:PHE:O	4:E:18:ARG:NH2	2.46	0.48
5:F:108:GLU:OE1	5:F:108:GLU:HA	2.13	0.48
5:F:234:LYS:HD2	5:F:236:SER:HB2	1.94	0.48
1:K:171:PHE:O	1:K:172:SER:C	2.52	0.48
1:L:180:GLN:O	1:L:196:THR:HG22	2.13	0.48
2:M:130:ASN:ND2	2:M:383:ARG:HH21	2.08	0.48
2:M:165:LEU:HA	2:M:166:PRO:O	2.13	0.48
2:M:193:LEU:O	2:M:197:LEU:HG	2.13	0.48
2:M:691:SER:O	2:M:692:GLU:C	2.51	0.48
2:M:862:PRO:HA	2:M:975:TYR:CE1	2.48	0.48
2:M:1097:LEU:HD23	3:N:10:ILE:CD1	2.30	0.48
3:N:12:LEU:H	3:N:507:ASN:ND2	2.12	0.48
3:N:23:TYR:CE2	3:N:89:ARG:HD3	2.49	0.48
3:N:28:LYS:HA	3:N:29:PRO:HD3	1.70	0.48
3:N:97:THR:HG21	3:N:571:LYS:CD	2.40	0.48
3:N:811:GLU:O	3:N:815:ALA:CB	2.61	0.48
4:O:5:GLY:HA3	4:O:8:LYS:HD2	1.95	0.48
5:P:288:TYR:HA	5:P:291:ILE:HG22	1.94	0.48
1:A:18:ARG:NH1	1:A:88:ARG:NE	2.50	0.48
1:A:35:THR:HA	1:B:42:ARG:HD3	1.94	0.48
1:B:132:LEU:HD11	1:B:138:LEU:HD13	1.94	0.48
2:C:91:GLN:HB3	2:C:117:HIS:HB3	1.95	0.48
2:C:115:LEU:HA	2:C:375:SER:OG	2.14	0.48
2:C:704:HIS:HB3	2:C:831:ARG:NH1	2.29	0.48
2:C:730:SER:O	2:C:734:LEU:HD23	2.13	0.48
2:C:774:LEU:HD13	2:C:774:LEU:C	2.33	0.48
2:C:835:VAL:HA	2:C:849:VAL:CG1	2.44	0.48
3:D:178:LEU:O	3:D:180:LYS:N	2.47	0.48
3:D:834:THR:HG22	3:D:838:ARG:CB	2.43	0.48
3:D:1314:LYS:HZ3	3:D:1317:ASP:CB	2.26	0.48
5:F:189:GLU:C	5:F:191:ASN:H	2.17	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:194:LEU:O	5:F:198:ILE:HG13	2.12	0.48
2:M:83:CYS:O	2:M:86:LYS:O	2.31	0.48
2:M:165:LEU:HD12	2:M:166:PRO:CA	2.41	0.48
2:M:208:ALA:HA	2:M:218:VAL:HG11	1.95	0.48
2:M:368:THR:CB	2:M:369:PRO:HD3	2.34	0.48
2:M:666:LEU:CG	2:M:668:LEU:HD11	2.44	0.48
3:N:40:GLU:CG	3:N:41:ARG:H	2.26	0.48
3:N:168:THR:C	3:N:170:PRO:HD3	2.34	0.48
3:N:657:LEU:HG	3:N:661:MET:HE3	1.94	0.48
3:N:808:THR:H	3:N:809:PRO:CD	2.27	0.48
4:O:31:LEU:O	4:O:34:GLY:O	2.32	0.48
1:A:189:ARG:HG2	1:A:190:THR:H	1.77	0.48
1:B:23:PHE:HZ	1:B:208:LEU:HA	1.77	0.48
1:B:82:LEU:C	1:B:84:GLU:H	2.16	0.48
1:B:85:LEU:HD12	1:B:124:ASN:HB2	1.96	0.48
2:C:196:LEU:HD23	2:C:196:LEU:C	2.34	0.48
2:C:602:GLU:CB	2:C:614:ARG:HB3	2.40	0.48
2:C:650:ARG:HD3	2:C:650:ARG:H	1.78	0.48
2:C:950:LEU:CB	2:C:952:LEU:HD23	2.41	0.48
3:D:46:ASP:OD2	3:D:48:ARG:N	2.46	0.48
3:D:80:VAL:HG22	3:D:81:THR:N	2.28	0.48
3:D:116:LEU:CD2	3:D:468:LEU:HD11	2.43	0.48
3:D:161:LEU:O	3:D:449:SER:CB	2.62	0.48
3:D:201:GLY:O	3:D:203:ALA:N	2.46	0.48
3:D:547:LEU:CD2	3:D:581:LEU:HD21	2.43	0.48
3:D:769:LEU:O	3:D:778:LEU:N	2.41	0.48
3:D:845:ASN:O	3:D:848:GLU:HB2	2.14	0.48
3:D:996:TRP:CD1	3:D:1056:PRO:CG	2.96	0.48
3:D:1277:ILE:HB	3:D:1294:VAL:HG11	1.95	0.48
3:D:1314:LYS:O	3:D:1316:GLY:N	2.46	0.48
5:F:416:ARG:CZ	5:F:419:ARG:HG2	2.44	0.48
5:F:418:LEU:O	5:F:419:ARG:C	2.52	0.48
1:K:26:GLU:CB	1:K:27:PRO:HA	2.44	0.48
1:L:55:SER:HB2	1:L:158:ILE:HB	1.96	0.48
2:M:265:ARG:HG3	2:M:288:ARG:CD	2.43	0.48
2:M:957:LYS:HB2	2:M:962:GLN:HE21	1.77	0.48
2:M:1047:HIS:ND1	3:N:754:PHE:CG	2.82	0.48
2:M:1052:MET:CE	3:N:623:VAL:HG11	2.44	0.48
3:N:438:ASP:HB3	3:N:443:VAL:HB	1.94	0.48
3:N:460:ALA:O	3:N:463:GLN:HB2	2.14	0.48
3:N:646:LYS:CA	3:N:720:LEU:HD22	2.42	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:P:340:SER:O	5:P:342:VAL:N	2.47	0.48
5:P:406:ARG:CG	5:P:409:LYS:HE2	2.42	0.48
2:C:154:ARG:O	2:C:156:GLY:N	2.46	0.48
2:C:227:PHE:C	2:C:229:MET:H	2.17	0.48
2:C:292:ARG:HD2	2:C:299:LYS:CE	2.43	0.48
2:C:537:LYS:CA	2:C:545:ASN:HD21	2.06	0.48
2:C:713:ARG:HH11	2:C:713:ARG:CB	2.27	0.48
2:C:906:PHE:CE1	3:D:1067:VAL:HA	2.48	0.48
2:C:918:LEU:CD2	2:C:968:LEU:O	2.62	0.48
3:D:10:ILE:HD11	3:D:1434:TRP:NE1	2.28	0.48
3:D:124:GLU:C	3:D:126:VAL:N	2.67	0.48
3:D:207:PHE:HB3	3:D:395:VAL:HG21	1.96	0.48
3:D:656:PHE:CE1	3:D:751:LEU:HD23	2.49	0.48
3:D:754:PHE:HD1	4:E:24:ALA:HB1	1.78	0.48
3:D:882:PHE:HA	3:D:885:ILE:HD12	1.95	0.48
3:D:1118:ILE:CG2	3:D:1188:VAL:HG13	2.43	0.48
3:D:1233:GLY:O	3:D:1235:GLN:N	2.47	0.48
5:F:82:ARG:HG2	5:F:86:HIS:NE2	2.29	0.48
1:K:69:PRO:O	1:K:71:VAL:HG23	2.13	0.48
1:K:156:HIS:HD2	1:K:157:GLY:N	2.11	0.48
1:L:209:GLU:O	1:L:212:ASN:HB2	2.14	0.48
2:M:411:SER:HA	2:M:452:ILE:HG22	1.96	0.48
2:M:517:ARG:O	2:M:518:LYS:C	2.49	0.48
2:M:723:THR:HG23	2:M:725:ASP:HB2	1.96	0.48
2:M:873:PRO:O	2:M:876:VAL:HG23	2.14	0.48
2:M:1054:THR:HG22	2:M:1059:ASP:OD2	2.13	0.48
2:M:1067:TYR:CE1	3:N:655:PRO:HG3	2.48	0.48
3:N:14:SER:O	3:N:15:PRO:C	2.51	0.48
3:N:29:PRO:CG	3:N:549:ASN:ND2	2.72	0.48
3:N:131:LYS:HG3	3:N:456:MET:HG3	1.96	0.48
3:N:178:LEU:HA	3:N:199:LEU:HD13	1.96	0.48
3:N:385:VAL:CG1	5:P:96:LEU:HB3	2.44	0.48
3:N:645:PRO:CG	3:N:724:GLN:O	2.62	0.48
3:N:819:GLY:O	3:N:822:ALA:HB3	2.14	0.48
3:N:974:ILE:O	3:N:974:ILE:HG22	2.13	0.48
3:N:1066:THR:CG2	3:N:1069:GLU:HG3	2.44	0.48
3:N:1166:LEU:HA	3:N:1170:ASP:OD2	2.14	0.48
2:C:102:HIS:C	2:C:104:ASP:N	2.66	0.48
2:C:398:THR:HA	2:C:633:GLN:HG3	1.95	0.48
2:C:670:GLN:HB2	2:C:700:TYR:CZ	2.48	0.48
2:C:780:GLU:C	2:C:782:ALA:H	2.17	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1005:MET:O	2:C:1005:MET:HG2	2.14	0.48
3:D:119:SER:C	3:D:121:THR:H	2.17	0.48
3:D:807:ALA:HB2	3:D:833:GLU:HB2	1.94	0.48
3:D:808:THR:CB	3:D:809:PRO:CD	2.88	0.48
3:D:813:LEU:HD12	3:D:814:ALA:N	2.29	0.48
3:D:996:TRP:O	3:D:998:GLU:N	2.47	0.48
3:D:1004:THR:O	3:D:1007:VAL:HG22	2.14	0.48
3:D:1229:ILE:HD11	3:D:1367:HIS:CB	2.40	0.48
3:D:1260:ILE:C	3:D:1262:LEU:N	2.67	0.48
5:F:137:GLY:HA2	5:F:140:ARG:HH22	1.77	0.48
5:F:317:LEU:O	5:F:317:LEU:HD23	2.14	0.48
1:L:59:GLU:CG	1:L:60:ASP:H	2.18	0.48
2:M:86:LYS:HB3	2:M:88:LEU:HG	1.95	0.48
2:M:91:GLN:OE1	2:M:117:HIS:HB3	2.13	0.48
2:M:139:GLN:NE2	2:M:415:PRO:CD	2.68	0.48
2:M:139:GLN:HE21	2:M:414:GLY:HA3	1.75	0.48
2:M:340:MET:C	2:M:340:MET:SD	2.93	0.48
2:M:348:LEU:N	2:M:348:LEU:HD12	2.28	0.48
2:M:1007:ALA:CB	3:N:648:MET:HG2	2.42	0.48
2:M:1052:MET:HE3	3:N:623:VAL:CG2	2.35	0.48
2:M:1058:ASP:OD1	2:M:1084:SER:HB2	2.13	0.48
3:N:179:VAL:HG21	3:N:217:LYS:HZ3	1.78	0.48
3:N:701:LEU:O	3:N:747:VAL:HA	2.13	0.48
3:N:989:TYR:CZ	3:N:993:LEU:HD11	2.49	0.48
3:N:1072:ILE:HG22	3:N:1073:SER:N	2.28	0.48
5:P:88:ILE:HG21	5:P:193:ARG:HD2	1.96	0.48
5:P:307:THR:O	5:P:310:ILE:N	2.46	0.48
2:C:172:ILE:HG22	2:C:173:ASP:N	2.29	0.48
2:C:577:PRO:HG3	2:C:993:PHE:CZ	2.48	0.48
2:C:1021:LEU:CD2	5:F:332:PHE:HA	2.43	0.48
3:D:154:THR:CG2	3:D:155:ASP:N	2.77	0.48
3:D:568:ARG:O	3:D:569:ASN:C	2.52	0.48
3:D:687:VAL:O	3:D:690:ALA:HB3	2.14	0.48
3:D:1197:ARG:HB2	3:D:1396:GLU:OE2	2.14	0.48
5:F:291:ILE:HG23	5:F:292:ALA:N	2.29	0.48
2:M:352:ALA:CA	2:M:355:VAL:HG12	2.31	0.48
2:M:390:GLN:OE1	2:M:414:GLY:O	2.32	0.48
2:M:433:THR:CG2	2:M:488:ALA:HB1	2.44	0.48
2:M:497:ALA:HA	2:M:515:ALA:HA	1.95	0.48
2:M:516:ARG:NH2	3:N:1068:LEU:CB	2.77	0.48
2:M:660:ALA:HB1	2:M:667:ALA:O	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:127:LEU:HD13	3:N:457:GLY:H	1.79	0.48
3:N:585:GLY:C	3:N:587:ARG:H	2.17	0.48
4:O:40:LEU:CD2	4:O:67:GLU:HG2	2.36	0.48
5:P:143:HIS:O	5:P:147:LEU:HA	2.13	0.48
1:B:32:PHE:O	1:B:33:GLY:C	2.50	0.47
2:C:168:ARG:O	2:C:170:PRO:HD3	2.14	0.47
2:C:255:ALA:O	2:C:298:PHE:CE2	2.67	0.47
2:C:342:ASP:O	2:C:345:ARG:HG2	2.14	0.47
2:C:835:VAL:CG2	2:C:836:GLY:N	2.76	0.47
3:D:224:ARG:H	3:D:365:ASP:HB2	1.79	0.47
3:D:499:VAL:HG12	3:D:503:LEU:HD12	1.96	0.47
3:D:592:THR:O	3:D:593:ASN:C	2.51	0.47
3:D:676:MET:HE1	3:D:684:LYS:HG3	1.95	0.47
3:D:679:ARG:NH1	3:D:681:ARG:HD2	2.29	0.47
3:D:864:VAL:CG1	3:D:865:THR:N	2.77	0.47
5:F:158:GLU:CA	5:F:161:GLN:NE2	2.72	0.47
1:K:22:GLU:O	1:K:23:PHE:CG	2.67	0.47
2:M:396:ASP:OD1	2:M:402:SER:HB2	2.14	0.47
2:M:403:SER:O	2:M:406:HIS:N	2.47	0.47
2:M:724:ARG:CG	2:M:724:ARG:O	2.62	0.47
2:M:895:TYR:HA	2:M:991:GLN:NE2	2.29	0.47
2:M:1114:GLY:C	2:M:1116:ALA:H	2.16	0.47
3:N:396:VAL:HG22	3:N:447:VAL:HG12	1.96	0.47
3:N:1262:LEU:CD2	3:N:1351:GLU:HB3	2.40	0.47
3:N:1336:LEU:HB2	3:N:1344:VAL:HG21	1.96	0.47
5:P:105:LYS:HB3	5:P:105:LYS:NZ	2.29	0.47
2:C:115:LEU:HD23	2:C:115:LEU:N	2.17	0.47
2:C:268:ASP:H	2:C:272:ALA:HB2	1.78	0.47
2:C:415:PRO:HB2	2:C:418:LEU:HD23	1.96	0.47
2:C:449:ILE:O	2:C:451:LEU:N	2.45	0.47
2:C:458:TYR:HE1	2:C:537:LYS:HB2	1.80	0.47
3:D:99:ALA:HA	3:D:575:GLN:HE22	1.80	0.47
3:D:385:VAL:O	3:D:385:VAL:HG22	2.13	0.47
3:D:385:VAL:CG2	5:F:97:GLU:HG2	2.44	0.47
3:D:646:LYS:CG	3:D:647:ARG:N	2.78	0.47
3:D:963:TYR:H	3:D:963:TYR:HD1	1.62	0.47
3:D:1197:ARG:HD3	3:D:1396:GLU:HB2	1.95	0.47
2:M:188:LYS:HD3	2:M:189:ARG:H	1.77	0.47
2:M:408:ARG:O	2:M:408:ARG:HG3	2.14	0.47
2:M:555:ALA:O	2:M:556:ASN:C	2.53	0.47
2:M:754:ILE:HD13	2:M:791:ARG:HD2	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:925:TYR:CD1	2:M:925:TYR:C	2.87	0.47
3:N:502:PHE:HZ	3:N:1452:ILE:HD11	1.79	0.47
3:N:691:LEU:C	3:N:693:GLU:H	2.18	0.47
3:N:739:ASP:OD2	3:N:741:ASP:OD2	2.31	0.47
3:N:1269:LYS:HE2	3:N:1269:LYS:HA	1.96	0.47
5:P:260:ILE:CD1	5:P:264:MET:HB3	2.43	0.47
5:P:405:LEU:HD23	5:P:405:LEU:C	2.34	0.47
1:A:182:GLU:O	1:A:183:ASP:O	2.32	0.47
2:C:16:PRO:O	2:C:18:LEU:N	2.47	0.47
2:C:403:SER:O	2:C:407:LYS:HE2	2.14	0.47
2:C:650:ARG:N	2:C:650:ARG:CD	2.75	0.47
2:C:676:ILE:O	2:C:676:ILE:HG23	2.15	0.47
2:C:691:SER:C	2:C:693:GLU:N	2.67	0.47
2:C:1050:GLN:HE21	3:D:1470:ARG:C	2.17	0.47
3:D:159:ARG:HH11	3:D:159:ARG:CB	2.26	0.47
3:D:577:ALA:O	3:D:580:ALA:HB3	2.14	0.47
3:D:697:GLY:CA	4:E:59:ASN:OD1	2.62	0.47
3:D:1086:LEU:CA	6:D:1525:STD:H32	2.36	0.47
3:D:1145:TYR:HD2	3:D:1146:GLY:H	1.58	0.47
5:F:302:LYS:HG3	5:F:303:ARG:N	2.30	0.47
1:K:97:VAL:CG1	1:K:98:THR:N	2.76	0.47
1:K:176:ARG:HG3	1:K:200:TRP:CE3	2.48	0.47
1:K:189:ARG:HH12	1:L:155:LYS:HZ3	1.61	0.47
1:L:124:ASN:N	1:L:125:PRO:HD3	2.29	0.47
2:M:170:PRO:CB	2:M:172:ILE:HD11	2.44	0.47
2:M:226:VAL:HG13	2:M:227:PHE:HD1	1.79	0.47
2:M:261:ILE:HG22	2:M:262:ALA:N	2.28	0.47
2:M:474:VAL:HG23	2:M:479:VAL:HA	1.95	0.47
2:M:722:ILE:O	2:M:722:ILE:HG12	2.14	0.47
3:N:18:ILE:HD12	3:N:518:PRO:CG	2.45	0.47
3:N:172:PRO:HA	3:N:173:PRO:HD3	1.68	0.47
3:N:473:LEU:HD12	3:N:476:GLU:OE2	2.13	0.47
3:N:875:THR:HG22	3:N:879:ARG:CG	2.40	0.47
3:N:920:LEU:H	3:N:920:LEU:CD1	2.28	0.47
3:N:920:LEU:HD12	3:N:920:LEU:N	2.30	0.47
3:N:935:LYS:HG3	3:N:939:PHE:HE1	1.78	0.47
3:N:1059:SER:HB2	3:N:1065:LEU:HD12	1.95	0.47
3:N:1231:GLU:C	3:N:1231:GLU:OE1	2.53	0.47
5:P:389:PHE:HD2	5:P:397:ILE:CD1	2.26	0.47
1:A:195:LEU:HD12	1:A:196:THR:H	1.80	0.47
2:C:95:TYR:HB2	2:C:113:VAL:H	1.79	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:480:THR:CG2	2:C:482:GLU:HB3	2.43	0.47
2:C:1044:GLY:HA3	4:E:17:TYR:CE1	2.49	0.47
3:D:169:TYR:CG	3:D:169:TYR:O	2.66	0.47
3:D:175:VAL:O	3:D:179:VAL:HG21	2.14	0.47
3:D:470:LEU:HD12	3:D:508:ARG:NH2	2.30	0.47
3:D:704:ARG:NH1	3:D:738:ALA:HA	2.30	0.47
3:D:1412:LYS:C	3:D:1414:PRO:HD3	2.34	0.47
3:D:1493:LYS:O	3:D:1497:GLU:HG2	2.14	0.47
5:F:84:TYR:HB3	5:F:88:ILE:HD11	1.96	0.47
5:F:323:ASP:O	5:F:325:LYS:HG3	2.14	0.47
1:L:176:ARG:NH2	3:N:884:ARG:NE	2.62	0.47
2:M:17:PRO:O	2:M:20:GLU:HB3	2.14	0.47
2:M:565:GLN:C	2:M:567:GLN:N	2.64	0.47
2:M:610:ARG:HD2	2:M:622:GLU:HG3	1.97	0.47
2:M:736:ASP:O	2:M:738:ASP:N	2.44	0.47
2:M:1097:LEU:H	2:M:1097:LEU:CD1	2.23	0.47
3:N:82:LYS:O	3:N:84:ILE:N	2.47	0.47
3:N:105:VAL:HG22	3:N:112:ILE:CD1	2.44	0.47
3:N:455:ARG:HH22	5:P:140:ARG:CD	2.27	0.47
3:N:477:LEU:HD11	3:N:495:ARG:HG2	1.97	0.47
3:N:547:LEU:HD11	3:N:578:VAL:HG22	1.96	0.47
3:N:552:ASN:O	3:N:553:ARG:C	2.52	0.47
3:N:757:ALA:O	3:N:761:ILE:N	2.46	0.47
3:N:868:TYR:HE1	3:N:869:MET:CE	2.27	0.47
3:N:902:LEU:HD12	3:N:903:ASP:N	2.29	0.47
5:P:372:ARG:NE	5:P:388:ALA:HA	2.30	0.47
2:C:136:ILE:HD13	2:C:392:SER:OG	2.15	0.47
2:C:196:LEU:HA	2:C:199:VAL:CG2	2.43	0.47
2:C:692:GLU:O	2:C:692:GLU:HG2	2.14	0.47
2:C:872:ASN:OD1	2:C:873:PRO:CD	2.63	0.47
3:D:54:LYS:NZ	3:D:55:ASP:OD1	2.29	0.47
3:D:78:VAL:O	3:D:78:VAL:HG12	2.15	0.47
3:D:106:LYS:O	3:D:586:ARG:NH2	2.47	0.47
3:D:141:ILE:HG22	3:D:142:LEU:N	2.29	0.47
3:D:847:ASP:O	3:D:848:GLU:C	2.53	0.47
3:D:1251:ASP:OD1	3:D:1270:ALA:HB3	2.13	0.47
5:F:164:LYS:CA	5:F:171:LYS:NZ	2.78	0.47
1:K:1:MET:SD	1:K:5:LYS:HB3	2.54	0.47
1:K:56:VAL:HG12	1:K:58:ILE:HG12	1.97	0.47
1:K:175:ARG:HE	1:K:202:ASP:CA	2.21	0.47
1:K:205:VAL:HG23	1:K:206:THR:H	1.76	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:223:THR:C	1:L:225:PHE:N	2.67	0.47
2:M:536:PRO:O	2:M:538:GLN:N	2.47	0.47
2:M:744:ARG:HG3	2:M:744:ARG:O	2.14	0.47
2:M:1019:GLN:HE22	3:N:621:LYS:HA	1.79	0.47
2:M:1036:GLU:OE1	2:M:1036:GLU:N	2.38	0.47
3:N:25:GLU:HB2	3:N:92:HIS:CE1	2.49	0.47
3:N:28:LYS:HG2	3:N:41:ARG:CD	2.43	0.47
3:N:38:LYS:HE2	3:N:39:PRO:HD2	1.95	0.47
3:N:52:PRO:HG3	3:N:81:THR:H	1.78	0.47
3:N:74:GLU:O	3:N:75:ARG:NH2	2.48	0.47
3:N:212:ARG:HB3	3:N:394:LEU:HD13	1.95	0.47
3:N:367:ILE:HG12	3:N:368:VAL:N	2.28	0.47
3:N:387:LEU:HD22	3:N:387:LEU:N	2.29	0.47
3:N:416:ALA:H	3:N:417:PRO:HD2	1.79	0.47
3:N:481:MET:CE	3:N:1389:LEU:HD21	2.45	0.47
3:N:642:CYS:HB3	3:N:716:PHE:CG	2.48	0.47
3:N:709:HIS:CD2	3:N:711:LEU:HB2	2.49	0.47
3:N:750:PRO:HG2	3:N:756:GLN:OE1	2.15	0.47
3:N:780:LYS:CD	3:N:912:LYS:HG3	2.45	0.47
5:P:171:LYS:HE3	5:P:175:HIS:NE2	2.29	0.47
5:P:214:GLN:HA	5:P:217:ASN:ND2	2.21	0.47
5:P:287:THR:HG23	5:P:290:GLU:HB2	1.96	0.47
2:C:27:ARG:O	2:C:29:ALA:N	2.47	0.47
2:C:122:THR:HG22	2:C:123:GLU:N	2.30	0.47
2:C:148:PHE:CB	2:C:313:LEU:HD22	2.44	0.47
2:C:431:HIS:C	2:C:433:THR:N	2.66	0.47
2:C:577:PRO:HG3	2:C:993:PHE:CE2	2.50	0.47
2:C:1033:GLY:O	2:C:1037:VAL:HG23	2.14	0.47
2:C:1054:THR:HG22	2:C:1059:ASP:CB	2.29	0.47
2:C:1070:ILE:CD1	3:D:751:LEU:HD22	2.45	0.47
3:D:385:VAL:HG22	5:F:97:GLU:HG2	1.95	0.47
3:D:474:GLU:O	3:D:478:LEU:HG	2.14	0.47
3:D:795:VAL:CG1	3:D:796:ARG:N	2.77	0.47
3:D:1038:LEU:O	3:D:1060:SER:HB2	2.14	0.47
3:D:1102:THR:O	3:D:1103:HIS:C	2.52	0.47
3:D:1155:VAL:HG12	3:D:1156:LEU:N	2.29	0.47
5:F:280:GLN:OE1	5:F:281:GLU:CB	2.56	0.47
5:F:372:ARG:HD2	5:F:372:ARG:HA	1.64	0.47
5:F:413:SER:O	5:F:416:ARG:HD3	2.15	0.47
1:K:85:LEU:HD11	1:K:87:VAL:CG1	2.45	0.47
1:L:6:LEU:HG	1:L:6:LEU:O	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:80:GLN:O	2:M:83:CYS:N	2.47	0.47
2:M:365:ASP:O	2:M:367:LEU:HG	2.15	0.47
2:M:559:LEU:HD11	2:M:563:ASN:HD21	1.78	0.47
2:M:775:ARG:HH11	2:M:782:ALA:CB	2.28	0.47
2:M:889:HIS:CD2	2:M:970:GLY:HA3	2.49	0.47
2:M:1047:HIS:HE1	2:M:1078:GLU:OE2	1.98	0.47
3:N:221:ALA:O	3:N:367:ILE:HG23	2.15	0.47
3:N:701:LEU:O	3:N:702:LEU:CD1	2.62	0.47
3:N:1280:VAL:O	3:N:1294:VAL:HA	2.14	0.47
3:N:1440:PHE:HB2	3:N:1442:ASN:HD21	1.78	0.47
5:P:282:LEU:C	5:P:284:ARG:H	2.17	0.47
1:A:67:THR:HG21	2:C:609:ASN:OD1	2.15	0.47
1:A:160:ASP:HB2	1:A:161:ARG:H	1.51	0.47
1:B:23:PHE:HE2	1:B:199:ILE:HD12	1.79	0.47
1:B:44:LEU:HD23	1:B:210:ALA:HB1	1.97	0.47
2:C:233:GLU:O	2:C:233:GLU:CD	2.53	0.47
2:C:352:ALA:O	2:C:356:ARG:HG3	2.15	0.47
2:C:468:ARG:HG2	2:C:487:THR:HA	1.96	0.47
2:C:516:ARG:HH21	3:D:1068:LEU:HB3	1.75	0.47
2:C:853:LEU:HB3	2:C:858:MET:HE3	1.95	0.47
2:C:885:ILE:HG22	2:C:885:ILE:O	2.14	0.47
2:C:1012:PRO:O	2:C:1013:TYR:CG	2.68	0.47
2:C:1047:HIS:O	2:C:1050:GLN:N	2.47	0.47
2:C:1081:VAL:HG12	2:C:1082:PRO:HD2	1.97	0.47
2:C:1095:LEU:HB3	3:D:101:HIS:CE1	2.50	0.47
3:D:87:ARG:HB3	3:D:523:ASP:HB3	1.94	0.47
3:D:127:LEU:HD12	3:D:128:TYR:N	2.29	0.47
3:D:374:GLU:CD	3:D:374:GLU:N	2.68	0.47
3:D:400:VAL:O	3:D:442:ASN:HB3	2.14	0.47
3:D:431:VAL:HG22	3:D:431:VAL:O	2.14	0.47
3:D:475:LYS:HA	3:D:478:LEU:CD1	2.44	0.47
3:D:601:ARG:HH22	3:D:611:GLN:HB2	1.77	0.47
3:D:840:LYS:HG2	3:D:841:TYR:CD2	2.50	0.47
3:D:918:ALA:HB1	3:D:922:LEU:HD12	1.97	0.47
3:D:1148:VAL:HG11	3:D:1203:LYS:HD2	1.96	0.47
3:D:1331:ASP:OD2	3:D:1332:PRO:CD	2.62	0.47
5:F:153:PRO:O	5:F:156:VAL:CG2	2.62	0.47
5:F:234:LYS:HD3	5:F:235:PHE:N	2.29	0.47
5:F:287:THR:HG22	5:F:290:GLU:OE2	2.15	0.47
1:K:110:LYS:C	1:K:112:ARG:H	2.18	0.47
1:L:25:LEU:HD23	1:L:28:LEU:HD11	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:537:LYS:HB2	2:M:537:LYS:HZ2	1.79	0.47
2:M:577:PRO:HG3	2:M:993:PHE:CG	2.50	0.47
2:M:711:GLU:OE1	2:M:713:ARG:NH2	2.48	0.47
2:M:854:PRO:HB3	2:M:856:GLU:OE2	2.13	0.47
2:M:925:TYR:HD2	2:M:967:PHE:CE1	2.33	0.47
2:M:1036:GLU:N	2:M:1036:GLU:CD	2.68	0.47
2:M:1060:ILE:O	2:M:1063:ARG:HG2	2.14	0.47
2:M:1064:ASN:HD21	5:P:344:ALA:HB1	1.79	0.47
3:N:118:LEU:HA	3:N:123:LEU:HD13	1.97	0.47
3:N:168:THR:HG22	3:N:170:PRO:CD	2.44	0.47
3:N:396:VAL:HG12	3:N:397:LYS:N	2.29	0.47
3:N:424:GLY:CA	3:N:436:GLU:HA	2.44	0.47
3:N:477:LEU:HB2	3:N:496:LEU:HD13	1.97	0.47
3:N:613:ARG:HH11	3:N:613:ARG:HG3	1.80	0.47
3:N:938:GLY:O	3:N:942:SER:HB2	2.15	0.47
3:N:1256:LEU:O	3:N:1259:VAL:N	2.46	0.47
3:N:1290:LEU:HD13	3:N:1309:ALA:O	2.14	0.47
4:O:45:ARG:O	4:O:47:LYS:HE3	2.15	0.47
4:O:45:ARG:HB3	4:O:46:PRO:CD	2.44	0.47
5:P:291:ILE:HG21	5:P:304:VAL:HG11	1.96	0.47
1:A:51:THR:HG22	1:A:146:ARG:HA	1.97	0.47
1:B:62:LEU:HA	1:B:163:ASN:HB3	1.96	0.47
2:C:489:THR:C	2:C:491:GLU:H	2.18	0.47
2:C:852:ILE:HD13	2:C:852:ILE:HA	1.79	0.47
2:C:969:GLN:HE21	2:C:971:LYS:HE2	1.79	0.47
2:C:1000:MET:HB2	2:C:1002:GLU:HG2	1.97	0.47
2:C:1086:ARG:NH1	3:D:88:TYR:HE1	2.13	0.47
3:D:97:THR:CB	3:D:571:LYS:HD3	2.45	0.47
3:D:573:MET:HE1	5:F:211:ASP:HA	1.96	0.47
3:D:730:PRO:HA	3:D:733:CYS:SG	2.55	0.47
3:D:781:PRO:HB2	3:D:911:LEU:HD23	1.97	0.47
3:D:1114:THR:C	3:D:1116:ASN:H	2.17	0.47
3:D:1123:PHE:CD1	3:D:1134:LEU:HA	2.50	0.47
3:D:1211:MET:HB3	3:D:1213:ARG:NE	2.30	0.47
3:D:1462:LEU:HD22	3:D:1473:PRO:HD2	1.97	0.47
5:F:359:SER:C	5:F:361:LEU:H	2.17	0.47
5:F:419:ARG:O	5:F:421:PHE:N	2.48	0.47
1:K:39:PRO:HG3	1:L:39:PRO:HG2	1.97	0.47
1:K:201:THR:CG2	1:K:202:ASP:N	2.77	0.47
1:K:225:PHE:CZ	1:L:25:LEU:HD22	2.48	0.47
1:L:107:LYS:CE	1:L:109:VAL:HG22	2.45	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:45:GLN:O	2:M:49:ARG:HG3	2.14	0.47
2:M:880:MET:HG2	3:N:1038:LEU:HD11	1.96	0.47
2:M:1048:THR:OG1	3:N:755:ALA:HA	2.14	0.47
3:N:79:GLU:HG2	3:N:80:VAL:H	1.80	0.47
3:N:231:VAL:O	3:N:378:ILE:HG12	2.15	0.47
3:N:459:GLU:HG3	5:P:144:ILE:HD13	1.97	0.47
3:N:654:LYS:O	3:N:657:LEU:N	2.48	0.47
3:N:789:LEU:O	3:N:793:THR:HG23	2.15	0.47
3:N:835:SER:O	3:N:836:VAL:C	2.52	0.47
3:N:1280:VAL:HA	3:N:1317:ASP:O	2.15	0.47
3:N:1479:ASP:HA	3:N:1482:ARG:HB2	1.96	0.47
5:P:136:LEU:HD13	5:P:141:VAL:HG11	1.96	0.47
5:P:287:THR:HG22	5:P:290:GLU:HB2	1.97	0.47
5:P:289:GLU:CD	5:P:289:GLU:N	2.68	0.47
1:A:162:ILE:HG13	1:A:163:ASN:ND2	2.30	0.47
1:A:219:ARG:CG	1:A:219:ARG:NH1	2.77	0.47
2:C:491:GLU:C	2:C:493:ARG:N	2.68	0.47
2:C:610:ARG:HG3	2:C:610:ARG:HH11	1.80	0.47
3:D:80:VAL:CG2	3:D:81:THR:N	2.78	0.47
3:D:1370:ILE:O	3:D:1373:ARG:HG2	2.15	0.47
3:D:1472:ILE:HG22	3:D:1474:ALA:N	2.24	0.47
5:F:93:LEU:HG	5:F:190:ALA:CB	2.45	0.47
1:K:111:ALA:HB2	1:K:127:LEU:HB3	1.96	0.47
2:M:64:LEU:HD13	2:M:359:MET:CG	2.45	0.47
2:M:444:PRO:HG2	2:M:452:ILE:HG13	1.96	0.47
2:M:553:ASP:OD2	2:M:881:ASN:CA	2.63	0.47
2:M:723:THR:CG2	2:M:725:ASP:HB2	2.45	0.47
2:M:1054:THR:CG2	2:M:1079:PRO:HB3	2.43	0.47
3:N:12:LEU:HD11	3:N:104:PHE:CE1	2.44	0.47
3:N:127:LEU:HD12	3:N:127:LEU:C	2.35	0.47
3:N:178:LEU:N	3:N:199:LEU:HD13	2.29	0.47
3:N:564:GLU:N	3:N:564:GLU:CD	2.68	0.47
3:N:764:LEU:HD23	3:N:766:ALA:HB3	1.96	0.47
3:N:1258:ARG:HG3	3:N:1262:LEU:HD13	1.96	0.47
3:N:1393:GLN:HB2	3:N:1398:TRP:CZ2	2.50	0.47
4:O:43:GLU:O	4:O:45:ARG:HG2	2.15	0.47
1:A:72:LYS:O	2:C:608:GLY:HA2	2.14	0.47
1:A:144:VAL:CG1	1:A:145:ASP:H	2.28	0.47
1:B:174:VAL:HA	1:B:200:TRP:O	2.15	0.47
1:B:217:ILE:O	1:B:221:HIS:CD2	2.68	0.47
2:C:433:THR:HG22	2:C:437:ARG:HD2	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:473:ARG:O	2:C:480:THR:OG1	2.33	0.47
2:C:677:MET:HE2	2:C:679:PHE:HD1	1.78	0.47
2:C:677:MET:HE2	2:C:679:PHE:CD1	2.50	0.47
2:C:1006:HIS:O	2:C:1007:ALA:HB2	2.15	0.47
3:D:237:LYS:HB3	3:D:238:PRO:HD3	1.96	0.47
3:D:991:GLN:O	3:D:994:GLN:HB3	2.15	0.47
3:D:1459:LEU:HD11	3:D:1468:LEU:HD12	1.97	0.47
4:E:68:LEU:HD12	4:E:68:LEU:O	2.14	0.47
1:K:150:TYR:HE2	1:K:152:PRO:CG	2.13	0.47
2:M:690:ILE:HD12	2:M:694:LEU:HD13	1.97	0.47
2:M:1043:TYR:CG	3:N:763:MET:HG3	2.50	0.47
3:N:601:ARG:HB3	5:P:318:GLU:OE1	2.15	0.47
3:N:877:PRO:O	3:N:880:ILE:N	2.48	0.47
3:N:1326:THR:HG22	3:N:1327:ARG:N	2.30	0.47
3:N:1418:LYS:O	3:N:1419:PRO:C	2.52	0.47
3:N:1474:ALA:O	3:N:1476:THR:N	2.48	0.47
5:P:274:THR:OG1	5:P:291:ILE:HD11	2.15	0.47
5:P:316:SER:C	5:P:318:GLU:N	2.67	0.47
5:P:322:GLY:O	5:P:324:GLU:N	2.47	0.47
1:A:227:ASN:HD22	1:A:227:ASN:H	1.61	0.46
1:B:88:ARG:HG2	1:B:88:ARG:HH11	1.79	0.46
2:C:338:GLU:CA	2:C:341:THR:HG22	2.45	0.46
2:C:801:VAL:HG11	2:C:828:ALA:HB3	1.96	0.46
2:C:1044:GLY:HA3	4:E:17:TYR:HE1	1.81	0.46
2:C:1056:LYS:HA	3:D:624:ASP:HB2	1.97	0.46
3:D:36:THR:HG22	3:D:38:LYS:HG3	1.97	0.46
3:D:55:ASP:HA	3:D:82:LYS:CG	2.43	0.46
3:D:400:VAL:CA	3:D:442:ASN:O	2.53	0.46
3:D:525:ARG:O	3:D:525:ARG:HG3	2.15	0.46
3:D:553:ARG:HB3	3:D:553:ARG:HH11	1.80	0.46
3:D:638:LYS:O	3:D:639:LEU:C	2.54	0.46
3:D:788:GLY:O	3:D:792:ILE:CG2	2.63	0.46
3:D:935:LYS:HG3	3:D:939:PHE:CE1	2.50	0.46
1:K:57:TYR:HB3	1:K:141:GLU:HB2	1.96	0.46
1:L:172:SER:C	1:L:174:VAL:H	2.18	0.46
1:L:180:GLN:HB2	1:L:196:THR:HG23	1.97	0.46
2:M:684:PHE:CG	2:M:685:GLU:N	2.81	0.46
2:M:728:HIS:C	2:M:729:LEU:HD22	2.35	0.46
2:M:927:GLY:HA2	2:M:930:LYS:HZ3	1.78	0.46
3:N:18:ILE:HD12	3:N:518:PRO:HG3	1.97	0.46
3:N:74:GLU:C	3:N:75:ARG:HE	2.17	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:81:THR:O	3:N:82:LYS:O	2.34	0.46
3:N:376:GLU:HB3	3:N:384:VAL:HA	1.96	0.46
3:N:428:LYS:HE2	3:N:451:ASP:HB3	1.97	0.46
3:N:806:PHE:HE1	3:N:813:LEU:HD23	1.80	0.46
3:N:996:TRP:CE2	3:N:1056:PRO:HG2	2.50	0.46
3:N:1284:GLU:CG	3:N:1291:SER:HB2	2.45	0.46
3:N:1466:VAL:O	3:N:1469:GLY:N	2.48	0.46
5:P:83:GLN:O	5:P:87:GLU:OE1	2.33	0.46
1:A:67:THR:CG2	2:C:609:ASN:OD1	2.63	0.46
1:A:218:LEU:CD2	1:B:222:LEU:HD11	2.46	0.46
1:B:106:PRO:HG3	1:B:134:GLU:CD	2.35	0.46
2:C:31:GLN:HB3	2:C:34:VAL:CG2	2.45	0.46
2:C:191:PHE:HE2	2:C:238:LEU:HD11	1.80	0.46
2:C:428:ARG:NH2	6:D:1525:STD:H292	2.30	0.46
2:C:579:VAL:HG13	2:C:842:ARG:HH22	1.79	0.46
2:C:606:VAL:HG23	2:C:606:VAL:O	2.15	0.46
2:C:736:ASP:C	2:C:738:ASP:N	2.68	0.46
2:C:874:LEU:HD21	3:D:787:LEU:HD22	1.96	0.46
3:D:525:ARG:O	3:D:526:PRO:O	2.34	0.46
3:D:1130:ARG:HA	3:D:1130:ARG:HD2	1.72	0.46
3:D:1155:VAL:HG11	3:D:1177:ALA:HB2	1.96	0.46
3:D:1207:TYR:HB3	3:D:1208:ASP:H	1.57	0.46
3:D:1262:LEU:HD21	3:D:1351:GLU:HG3	1.97	0.46
3:D:1274:ILE:HB	3:D:1275:SER:H	1.53	0.46
3:D:1344:VAL:HG11	3:D:1421:LEU:HD13	1.96	0.46
3:D:1377:LYS:HG3	3:D:1377:LYS:O	2.14	0.46
5:F:304:VAL:O	5:F:308:LEU:HG	2.15	0.46
1:K:43:ILE:HG21	1:K:217:ILE:HB	1.96	0.46
1:K:55:SER:HB3	1:K:143:ARG:HB2	1.97	0.46
1:K:213:GLN:O	1:K:217:ILE:HG13	2.15	0.46
1:L:95:GLN:HE21	1:L:95:GLN:HB2	1.46	0.46
2:M:48:PHE:O	2:M:49:ARG:C	2.54	0.46
2:M:285:LEU:HD11	2:M:302:VAL:CG2	2.39	0.46
2:M:479:VAL:HG21	2:M:503:LEU:HD11	1.96	0.46
3:N:141:ILE:CG2	3:N:142:LEU:N	2.74	0.46
3:N:187:LYS:HE2	3:N:213:VAL:N	2.20	0.46
3:N:194:GLY:HA2	3:N:206:ARG:HA	1.97	0.46
3:N:416:ALA:N	3:N:417:PRO:CD	2.73	0.46
3:N:525:ARG:N	3:N:526:PRO:CD	2.78	0.46
3:N:870:GLY:O	3:N:871:LYS:HG3	2.15	0.46
3:N:1147:ARG:O	3:N:1166:LEU:CD2	2.64	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1258:ARG:HA	3:N:1261:GLU:HB3	1.97	0.46
2:C:75:GLU:H	2:C:93:PRO:HG2	1.80	0.46
2:C:89:THR:HG22	2:C:90:TYR:N	2.30	0.46
2:C:226:VAL:HG13	2:C:227:PHE:H	1.80	0.46
2:C:278:GLU:O	2:C:279:GLU:C	2.53	0.46
2:C:395:LYS:HE2	2:C:403:SER:HB2	1.97	0.46
2:C:462:ASP:CG	2:C:463:GLU:N	2.67	0.46
2:C:589:ARG:CA	2:C:596:TYR:OH	2.64	0.46
2:C:1119:ARG:NH2	3:D:48:ARG:HG2	2.31	0.46
3:D:25:GLU:OE1	3:D:25:GLU:O	2.32	0.46
3:D:130:SER:HG	3:D:132:TYR:HE1	1.55	0.46
3:D:535:PHE:CD1	5:F:258:ILE:HD11	2.50	0.46
3:D:661:MET:SD	3:D:677:LEU:HD21	2.55	0.46
3:D:1153:VAL:HG12	3:D:1155:VAL:CG2	2.44	0.46
3:D:1197:ARG:HD2	3:D:1197:ARG:HA	1.54	0.46
3:D:1270:ALA:O	3:D:1271:LYS:C	2.54	0.46
5:F:116:LEU:HD12	5:F:127:ILE:HG21	1.96	0.46
5:F:378:GLY:O	5:F:384:GLU:HG2	2.15	0.46
1:L:197:LEU:CD2	1:L:199:ILE:HG13	2.43	0.46
2:M:86:LYS:C	2:M:88:LEU:H	2.18	0.46
2:M:122:THR:O	2:M:123:GLU:C	2.53	0.46
2:M:170:PRO:HD2	2:M:263:ASP:HB3	1.98	0.46
2:M:432:ARG:NH2	3:N:1047:LYS:HB3	2.29	0.46
2:M:455:LEU:O	2:M:456:ALA:O	2.33	0.46
2:M:674:VAL:HG11	2:M:992:MET:HE3	1.97	0.46
2:M:736:ASP:C	2:M:738:ASP:H	2.18	0.46
2:M:755:LEU:C	2:M:756:VAL:HG23	2.36	0.46
3:N:536:ALA:CB	5:P:315:VAL:HG12	2.42	0.46
3:N:691:LEU:O	3:N:693:GLU:N	2.49	0.46
3:N:739:ASP:OD1	3:N:743:ASP:OD2	2.32	0.46
3:N:824:ASN:HB3	3:N:825:ALA:H	1.44	0.46
3:N:1258:ARG:O	3:N:1262:LEU:HD13	2.15	0.46
3:N:1274:ILE:CG1	3:N:1334:GLN:HE21	2.27	0.46
3:N:1486:VAL:HG12	4:O:73:LEU:HD22	1.97	0.46
5:P:395:GLU:O	5:P:398:ARG:HD2	2.15	0.46
1:A:86:VAL:HG13	1:A:124:ASN:HB2	1.98	0.46
1:A:158:ILE:HG22	1:A:159:LYS:N	2.31	0.46
1:B:111:ALA:HB3	1:B:124:ASN:O	2.15	0.46
1:B:205:VAL:O	1:B:205:VAL:HG23	2.15	0.46
2:C:508:ILE:CG2	2:C:513:VAL:HG21	2.43	0.46
2:C:517:ARG:O	2:C:518:LYS:C	2.54	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1063:ARG:O	2:C:1066:ALA:HB3	2.16	0.46
2:C:1095:LEU:HD21	3:D:603:LEU:HB2	1.98	0.46
3:D:36:THR:C	3:D:38:LYS:H	2.19	0.46
3:D:41:ARG:HG3	3:D:42:ASP:N	2.30	0.46
3:D:173:PRO:HD3	3:D:178:LEU:HD12	1.97	0.46
3:D:601:ARG:HH22	3:D:611:GLN:CD	2.19	0.46
3:D:968:ASP:O	3:D:971:LEU:HB3	2.16	0.46
3:D:976:GLN:C	3:D:978:TYR:H	2.17	0.46
3:D:1092:GLY:O	3:D:1095:THR:N	2.48	0.46
3:D:1152:GLU:OE1	3:D:1159:ARG:NH2	2.47	0.46
4:E:79:LEU:HG	4:E:80:VAL:HG23	1.98	0.46
5:F:137:GLY:CA	5:F:140:ARG:NH2	2.78	0.46
5:F:203:THR:O	5:F:205:ARG:N	2.49	0.46
1:L:62:LEU:HD12	1:L:62:LEU:H	1.80	0.46
2:M:124:ASP:HB2	2:M:407:LYS:NZ	2.30	0.46
2:M:212:GLY:HA3	2:M:218:VAL:CG2	2.46	0.46
2:M:445:GLU:OE1	2:M:560:MET:HE3	2.16	0.46
2:M:486:MET:HE3	2:M:491:GLU:HA	1.97	0.46
2:M:571:LEU:HD12	2:M:571:LEU:H	1.81	0.46
3:N:32:ILE:CG2	3:N:37:LEU:HA	2.46	0.46
3:N:137:PRO:CG	3:N:453:ASP:HB3	2.45	0.46
3:N:500:ARG:O	3:N:504:ASP:N	2.38	0.46
3:N:939:PHE:HA	3:N:942:SER:CB	2.45	0.46
3:N:1097:LYS:HA	3:N:1100:ASP:OD2	2.15	0.46
3:N:1113:GLY:O	3:N:1114:THR:C	2.53	0.46
3:N:1119:SER:HA	3:N:1186:VAL:O	2.16	0.46
3:N:1146:GLY:N	3:N:1166:LEU:O	2.48	0.46
3:N:1238:MET:HG3	3:N:1239:ARG:N	2.30	0.46
3:N:1284:GLU:HB2	3:N:1291:SER:HB2	1.96	0.46
3:N:1434:TRP:HZ3	3:N:1457:ASP:N	2.12	0.46
1:B:197:LEU:HD23	1:B:197:LEU:H	1.80	0.46
2:C:328:LEU:HD23	2:C:437:ARG:HD3	1.98	0.46
2:C:433:THR:O	2:C:437:ARG:HD2	2.16	0.46
2:C:470:PRO:O	2:C:534:VAL:HG23	2.15	0.46
2:C:572:ILE:CD1	2:C:701:THR:HB	2.46	0.46
2:C:718:GLY:HA3	2:C:761:PHE:CE1	2.50	0.46
2:C:799:ILE:O	2:C:801:VAL:HG13	2.16	0.46
3:D:423:ASP:O	3:D:424:GLY:C	2.54	0.46
3:D:567:ILE:O	3:D:571:LYS:NZ	2.45	0.46
3:D:676:MET:CE	3:D:684:LYS:H	2.28	0.46
3:D:755:ALA:O	3:D:756:GLN:C	2.54	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:835:SER:O	3:D:838:ARG:N	2.48	0.46
3:D:892:ASP:HB3	3:D:895:VAL:HG23	1.96	0.46
3:D:950:GLY:O	3:D:953:ASP:HB2	2.16	0.46
3:D:1042:ARG:O	3:D:1042:ARG:HG3	2.16	0.46
5:F:300:ASP:OD2	5:F:302:LYS:HG2	2.16	0.46
1:K:38:ASN:OD1	2:M:979:THR:O	2.34	0.46
2:M:71:TYR:N	2:M:71:TYR:CD2	2.82	0.46
2:M:499:ALA:C	2:M:501:THR:H	2.18	0.46
2:M:572:ILE:CD1	2:M:701:THR:HB	2.46	0.46
2:M:706:GLU:CG	2:M:707:ARG:H	2.28	0.46
2:M:874:LEU:C	2:M:876:VAL:H	2.18	0.46
2:M:1066:ALA:O	2:M:1067:TYR:C	2.52	0.46
3:N:140:ALA:O	3:N:141:ILE:O	2.33	0.46
3:N:217:LYS:HB2	3:N:218:LYS:H	1.52	0.46
3:N:240:GLU:C	3:N:242:LEU:H	2.19	0.46
3:N:790:TYR:O	3:N:791:TYR:C	2.54	0.46
3:N:939:PHE:HA	3:N:942:SER:HB2	1.95	0.46
3:N:1046:GLN:HE21	3:N:1046:GLN:HB2	1.60	0.46
3:N:1344:VAL:O	3:N:1347:TYR:HB3	2.16	0.46
4:O:63:TRP:O	4:O:65:MET:N	2.48	0.46
1:A:14:ARG:HH12	1:A:24:VAL:HG21	1.80	0.46
1:B:80:LEU:HG	3:D:844:ALA:HB2	1.97	0.46
2:C:424:GLY:O	2:C:425:PHE:C	2.54	0.46
2:C:564:MET:O	2:C:567:GLN:N	2.44	0.46
2:C:625:LEU:HD13	2:C:641:PRO:HG3	1.97	0.46
2:C:679:PHE:CA	3:D:943:THR:HG22	2.44	0.46
2:C:1056:LYS:HB3	3:D:624:ASP:H	1.81	0.46
3:D:141:ILE:N	3:D:141:ILE:CD1	2.67	0.46
3:D:216:VAL:HG12	3:D:217:LYS:N	2.30	0.46
3:D:465:LEU:HD22	3:D:509:PRO:O	2.15	0.46
3:D:714:GLN:NE2	3:D:735:ALA:HB1	2.30	0.46
3:D:1264:GLU:O	3:D:1266:ARG:CD	2.63	0.46
3:D:1380:GLU:HG2	3:D:1381:VAL:N	2.30	0.46
4:E:22:VAL:CG1	4:E:68:LEU:HD22	2.46	0.46
1:K:18:ARG:HH22	1:K:88:ARG:NH2	2.14	0.46
1:K:42:ARG:NH1	2:M:857:ASP:CB	2.73	0.46
1:K:48:ILE:HA	1:K:49:PRO:HD3	1.78	0.46
1:K:73:GLU:OE1	1:K:131:THR:N	2.49	0.46
1:L:14:ARG:HB2	1:L:22:GLU:HB2	1.97	0.46
2:M:174:LEU:HA	2:M:183:SER:O	2.15	0.46
2:M:212:GLY:HA3	2:M:218:VAL:HG21	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:226:VAL:HG13	2:M:227:PHE:N	2.30	0.46
2:M:430:VAL:HG23	3:N:1078:ARG:CZ	2.46	0.46
2:M:507:ARG:H	2:M:507:ARG:CD	2.23	0.46
2:M:578:VAL:HG12	2:M:900:ARG:NH1	2.31	0.46
2:M:978:ARG:NH1	2:M:978:ARG:HG3	2.31	0.46
3:N:56:TYR:HA	3:N:80:VAL:CG2	2.45	0.46
3:N:76:CYS:SG	3:N:78:VAL:CG2	3.04	0.46
3:N:153:LEU:HD12	3:N:158:TYR:HB2	1.97	0.46
3:N:166:GLN:NE2	3:N:167:GLU:H	2.14	0.46
3:N:493:ARG:NH1	3:N:493:ARG:HB2	2.31	0.46
3:N:660:LYS:HD2	3:N:663:GLU:OE2	2.15	0.46
3:N:1237:THR:CG2	3:N:1238:MET:N	2.79	0.46
5:P:369:LEU:O	5:P:373:LYS:HD3	2.16	0.46
2:C:843:HIS:CD2	2:C:884:GLN:CA	2.97	0.46
2:C:928:LYS:HE3	2:C:928:LYS:HA	1.97	0.46
2:C:987:ILE:HG12	3:D:948:THR:HG23	1.98	0.46
3:D:426:LYS:CB	5:F:134:LYS:O	2.57	0.46
3:D:729:HIS:CG	3:D:730:PRO:HD2	2.50	0.46
3:D:820:GLU:HA	3:D:825:ALA:O	2.15	0.46
3:D:1087:ARG:O	3:D:1091:SER:HB2	2.15	0.46
3:D:1341:PRO:O	3:D:1342:GLU:C	2.54	0.46
3:D:1457:ASP:O	3:D:1458:GLU:C	2.53	0.46
4:E:17:TYR:O	4:E:21:VAL:HG23	2.15	0.46
4:E:48:MET:N	4:E:54:LEU:HB2	2.31	0.46
5:F:361:LEU:HD22	5:F:404:ALA:HB1	1.97	0.46
1:L:201:THR:HG23	1:L:207:PRO:HG3	1.98	0.46
2:M:223:ASP:O	2:M:225:SER:N	2.48	0.46
2:M:376:ARG:CB	2:M:377:PRO:HD3	2.36	0.46
2:M:553:ASP:HA	2:M:881:ASN:HA	1.96	0.46
3:N:404:GLU:CD	3:N:414:ARG:CZ	2.84	0.46
3:N:470:LEU:O	3:N:471:GLU:C	2.54	0.46
4:O:51:LEU:HD12	4:O:52:GLU:H	1.79	0.46
5:P:362:SER:O	5:P:363:GLU:C	2.54	0.46
1:A:13:VAL:CG1	1:A:14:ARG:H	2.29	0.46
2:C:68:PHE:HE1	2:C:96:ALA:HB1	1.80	0.46
2:C:485:TYR:HD1	2:C:485:TYR:H	1.64	0.46
2:C:611:ILE:HG13	2:C:625:LEU:HD11	1.96	0.46
2:C:672:VAL:HG22	2:C:868:ASP:OD2	2.16	0.46
2:C:751:PRO:HG2	2:C:795:GLY:O	2.16	0.46
2:C:918:LEU:O	2:C:921:ALA:HB3	2.15	0.46
2:C:984:GLU:CG	3:D:944:THR:O	2.61	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:182:GLY:O	3:D:183:GLU:C	2.54	0.46
3:D:237:LYS:H	3:D:238:PRO:CD	2.28	0.46
3:D:929:ARG:HH11	3:D:929:ARG:HG3	1.79	0.46
1:K:224:TYR:O	1:L:11:PHE:HB2	2.15	0.46
2:M:100:LEU:HB2	2:M:368:THR:HG23	1.98	0.46
2:M:679:PHE:C	2:M:681:GLY:N	2.68	0.46
2:M:750:LYS:HB2	3:N:681:ARG:HH21	1.80	0.46
2:M:897:LEU:HD13	2:M:921:ALA:HB2	1.97	0.46
3:N:168:THR:HB	3:N:393:ILE:HG13	1.96	0.46
3:N:225:LEU:HB2	3:N:227:LEU:HD22	1.97	0.46
3:N:396:VAL:HG13	3:N:447:VAL:CA	2.43	0.46
3:N:1194:CYS:SG	3:N:1373:ARG:NH2	2.88	0.46
4:O:46:PRO:HB2	4:O:54:LEU:HD22	1.97	0.46
5:P:288:TYR:O	5:P:291:ILE:HG22	2.16	0.46
5:P:400:ILE:O	5:P:404:ALA:HB3	2.15	0.46
1:A:54:THR:HG23	1:A:156:HIS:CD2	2.51	0.46
1:B:9:PRO:HB3	1:B:25:LEU:CG	2.44	0.46
2:C:20:GLU:OE2	2:C:460:ARG:HB3	2.15	0.46
2:C:23:VAL:O	2:C:25:SER:N	2.49	0.46
2:C:240:THR:C	2:C:242:LEU:H	2.18	0.46
2:C:428:ARG:NH1	6:D:1525:STD:H141	2.31	0.46
2:C:589:ARG:HA	2:C:596:TYR:CZ	2.51	0.46
3:D:223:LEU:HD13	3:D:223:LEU:H	1.81	0.46
3:D:400:VAL:C	3:D:402:PRO:HD3	2.36	0.46
3:D:433:GLY:H	3:D:448:GLU:CA	2.28	0.46
3:D:775:GLY:HA3	3:D:1145:TYR:HE1	1.81	0.46
3:D:858:VAL:HG11	3:D:864:VAL:CG2	2.46	0.46
3:D:974:ILE:HD13	3:D:991:GLN:CG	2.46	0.46
5:F:163:LEU:HB3	5:F:174:LEU:CD1	2.46	0.46
1:K:181:VAL:CG1	2:M:938:LYS:HD2	2.46	0.46
1:L:81:ASN:CG	3:N:867:ARG:HH12	2.19	0.46
1:L:206:THR:CG2	1:L:209:GLU:OE2	2.64	0.46
2:M:430:VAL:O	2:M:430:VAL:HG12	2.15	0.46
2:M:471:TYR:CD1	2:M:486:MET:CE	2.98	0.46
2:M:627:ARG:NH1	2:M:627:ARG:HB3	2.31	0.46
2:M:762:LYS:HB2	2:M:762:LYS:NZ	2.31	0.46
2:M:1094:ALA:CB	3:N:520:LEU:HD13	2.46	0.46
3:N:35:ARG:NH1	3:N:35:ARG:HB3	2.31	0.46
3:N:96:ALA:HB3	3:N:554:LEU:HG	1.98	0.46
3:N:237:LYS:CB	3:N:238:PRO:HD3	2.40	0.46
3:N:554:LEU:HD12	3:N:558:LEU:CD1	2.46	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:633:VAL:HB	3:N:740:PHE:CE1	2.51	0.46
3:N:685:ASP:O	3:N:686:GLU:C	2.52	0.46
3:N:1188:VAL:CG2	3:N:1189:ARG:N	2.79	0.46
3:N:1396:GLU:O	3:N:1400:VAL:HG23	2.16	0.46
5:P:213:ILE:O	5:P:217:ASN:ND2	2.49	0.46
5:P:358:LEU:C	5:P:358:LEU:HD23	2.35	0.46
5:P:386:VAL:HG13	5:P:394:ARG:CG	2.45	0.46
5:P:406:ARG:CB	5:P:409:LYS:HE2	2.46	0.46
5:P:408:LEU:HD23	5:P:408:LEU:C	2.36	0.46
1:A:211:LEU:HD12	1:A:211:LEU:O	2.15	0.46
1:A:216:GLU:O	1:A:217:ILE:C	2.53	0.46
2:C:150:PRO:HA	2:C:158:TYR:HB3	1.97	0.46
2:C:637:LEU:HD12	2:C:637:LEU:N	2.31	0.46
2:C:683:ASN:HD22	2:C:872:ASN:HB2	1.80	0.46
2:C:838:LYS:C	2:C:839:LEU:HD23	2.36	0.46
2:C:920:GLN:HG2	2:C:920:GLN:O	2.14	0.46
2:C:1008:ARG:HG2	2:C:1009:SER:H	1.81	0.46
2:C:1038:TRP:HA	2:C:1041:GLU:HB2	1.97	0.46
3:D:97:THR:CG2	3:D:571:LYS:HD3	2.46	0.46
3:D:133:ILE:CG2	3:D:134:VAL:N	2.79	0.46
3:D:179:VAL:HG13	3:D:389:GLU:CG	2.44	0.46
3:D:211:VAL:HG13	3:D:393:ILE:HG22	1.97	0.46
3:D:849:ALA:O	3:D:853:VAL:HG23	2.15	0.46
3:D:1019:PRO:O	3:D:1020:LEU:C	2.53	0.46
3:D:1047:LYS:HB3	3:D:1048:PRO:HD2	1.98	0.46
3:D:1149:LEU:CD2	3:D:1166:LEU:HD21	2.46	0.46
3:D:1258:ARG:HH21	3:D:1351:GLU:HG2	1.81	0.46
3:D:1290:LEU:HD23	3:D:1291:SER:N	2.29	0.46
5:F:289:GLU:O	5:F:293:GLU:HG3	2.16	0.46
5:F:384:GLU:O	5:F:384:GLU:OE2	2.34	0.46
1:L:76:VAL:O	1:L:80:LEU:HB2	2.16	0.46
2:M:163:ILE:HA	2:M:164:PRO:HD3	1.72	0.46
2:M:227:PHE:HA	2:M:230:ARG:NE	2.30	0.46
2:M:230:ARG:HB2	2:M:233:GLU:CB	2.41	0.46
2:M:325:ILE:O	2:M:327:HIS:N	2.49	0.46
2:M:423:ALA:HA	6:M:1120:STD:H143	1.98	0.46
2:M:455:LEU:CD1	2:M:455:LEU:C	2.83	0.46
2:M:711:GLU:HB3	2:M:819:VAL:HG13	1.98	0.46
2:M:1042:ALA:HB1	3:N:710:ARG:HE	1.80	0.46
2:M:1119:ARG:NE	2:M:1119:ARG:HA	2.30	0.46
3:N:154:THR:HG22	3:N:155:ASP:N	2.29	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:166:GLN:H	3:N:395:VAL:HB	1.81	0.46
3:N:422:ALA:HB1	5:P:178:ARG:NE	2.31	0.46
3:N:499:VAL:O	3:N:503:LEU:HB2	2.16	0.46
3:N:550:ARG:CZ	3:N:573:MET:HB3	2.46	0.46
3:N:638:LYS:O	3:N:640:HIS:N	2.49	0.46
3:N:647:ARG:NH1	3:N:680:GLN:OE1	2.48	0.46
3:N:1096:ARG:O	3:N:1097:LYS:C	2.54	0.46
3:N:1450:ALA:CA	3:N:1455:LYS:HG3	2.40	0.46
4:O:41:GLU:HB3	4:O:42:PRO:HD3	1.97	0.46
5:P:222:ARG:HD2	5:P:242:TRP:HE3	1.81	0.46
1:B:152:PRO:HD2	1:B:155:LYS:HB2	1.98	0.45
2:C:139:GLN:NE2	2:C:415:PRO:CD	2.76	0.45
2:C:197:LEU:O	2:C:202:TYR:HB2	2.16	0.45
2:C:571:LEU:HD12	2:C:571:LEU:N	2.31	0.45
2:C:602:GLU:HG2	2:C:646:GLY:HA2	1.98	0.45
2:C:939:ARG:HB3	2:C:982:PRO:HG2	1.97	0.45
3:D:77:GLY:C	3:D:78:VAL:HG23	2.36	0.45
3:D:599:PRO:O	3:D:601:ARG:N	2.49	0.45
3:D:646:LYS:O	3:D:647:ARG:C	2.53	0.45
3:D:1040:GLY:O	3:D:1041:LEU:HB3	2.15	0.45
3:D:1253:THR:CG2	3:D:1258:ARG:HB2	2.40	0.45
5:F:386:VAL:CG1	5:F:387:GLY:H	2.10	0.45
1:K:170:VAL:HG23	1:K:170:VAL:O	2.16	0.45
1:L:162:ILE:HG12	1:L:162:ILE:O	2.15	0.45
2:M:3:ILE:HD13	2:M:900:ARG:O	2.15	0.45
2:M:5:ARG:HG3	2:M:5:ARG:O	2.16	0.45
2:M:73:LEU:HD21	2:M:118:ILE:HD11	1.98	0.45
2:M:706:GLU:CG	2:M:707:ARG:N	2.79	0.45
3:N:131:LYS:HE2	3:N:456:MET:CE	2.46	0.45
3:N:175:VAL:O	3:N:217:LYS:HE2	2.16	0.45
3:N:223:LEU:HD23	3:N:365:ASP:H	1.80	0.45
3:N:481:MET:SD	3:N:1388:ARG:HG2	2.56	0.45
3:N:604:THR:O	3:N:607:LEU:N	2.37	0.45
3:N:1078:ARG:O	3:N:1079:LYS:C	2.54	0.45
3:N:1124:GLN:N	3:N:1133:ARG:O	2.41	0.45
3:N:1167:SER:O	3:N:1171:VAL:HG23	2.16	0.45
3:N:1324:PRO:CG	3:N:1330:ILE:HD11	2.45	0.45
5:P:140:ARG:HH11	5:P:140:ARG:HG3	1.82	0.45
5:P:289:GLU:CD	5:P:289:GLU:H	2.20	0.45
1:A:34:VAL:HB	1:B:42:ARG:NE	2.31	0.45
1:A:161:ARG:CG	1:A:161:ARG:NH1	2.77	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:27:PRO:CG	1:B:186:LEU:HD12	2.41	0.45
2:C:182:VAL:HG12	2:C:183:SER:H	1.82	0.45
2:C:185:LYS:N	2:C:185:LYS:CE	2.78	0.45
2:C:435:TYR:OH	2:C:498:GLN:NE2	2.42	0.45
2:C:448:ASN:HB3	2:C:452:ILE:HD13	1.97	0.45
2:C:470:PRO:HB2	2:C:534:VAL:HG21	1.99	0.45
2:C:700:TYR:CB	2:C:833:LEU:HD22	2.43	0.45
2:C:1043:TYR:CZ	3:D:763:MET:HG3	2.51	0.45
2:C:1095:LEU:C	2:C:1097:LEU:N	2.63	0.45
3:D:29:PRO:HG2	3:D:549:ASN:ND2	2.31	0.45
3:D:139:GLY:HA2	3:D:452:ILE:HD12	1.97	0.45
3:D:375:GLU:HB3	3:D:385:VAL:HG11	1.97	0.45
3:D:598:ARG:HA	3:D:599:PRO:HD3	1.75	0.45
3:D:646:LYS:C	3:D:648:MET:N	2.69	0.45
3:D:787:LEU:HD21	3:D:947:ILE:HD11	1.98	0.45
3:D:1010:ASN:OD1	3:D:1014:ASN:ND2	2.48	0.45
3:D:1066:THR:HG23	3:D:1069:GLU:OE1	2.15	0.45
3:D:1158:VAL:HG12	3:D:1160:LEU:HD23	1.98	0.45
3:D:1396:GLU:C	3:D:1398:TRP:N	2.66	0.45
3:D:1476:THR:O	3:D:1476:THR:CG2	2.63	0.45
5:F:131:VAL:O	5:F:135:ILE:HG12	2.16	0.45
5:F:263:HIS:C	5:F:265:VAL:H	2.20	0.45
1:K:97:VAL:CG1	1:K:99:LEU:HD12	2.46	0.45
1:L:42:ARG:HG2	1:L:42:ARG:NH1	2.31	0.45
2:M:415:PRO:HD2	2:M:418:LEU:HB2	1.98	0.45
2:M:474:VAL:HG13	2:M:474:VAL:O	2.16	0.45
2:M:499:ALA:O	2:M:501:THR:N	2.49	0.45
2:M:1018:GLN:CG	3:N:87:ARG:HH22	2.28	0.45
2:M:1037:VAL:HG13	2:M:1049:LEU:HD11	1.97	0.45
3:N:162:ARG:HG2	3:N:163:TYR:N	2.31	0.45
3:N:815:ALA:C	3:N:817:GLU:H	2.19	0.45
3:N:1116:ASN:ND2	3:N:1116:ASN:N	2.41	0.45
3:N:1116:ASN:O	3:N:1117:TYR:HB3	2.16	0.45
3:N:1214:PRO:O	3:N:1215:VAL:O	2.34	0.45
3:N:1274:ILE:HD11	3:N:1334:GLN:NE2	2.30	0.45
4:O:41:GLU:H	4:O:42:PRO:CD	2.28	0.45
5:P:181:GLU:O	5:P:184:ARG:HB3	2.16	0.45
2:C:54:ILE:HG23	2:C:54:ILE:O	2.16	0.45
2:C:678:PRO:HA	2:C:683:ASN:HD21	1.82	0.45
2:C:827:VAL:HG12	2:C:828:ALA:N	2.31	0.45
3:D:67:ARG:CB	5:F:375:LEU:HD11	2.45	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:158:TYR:CE1	3:D:454:ALA:HB3	2.51	0.45
3:D:172:PRO:HA	3:D:173:PRO:HD3	1.73	0.45
3:D:223:LEU:CD1	3:D:365:ASP:H	2.28	0.45
3:D:396:VAL:HG13	3:D:447:VAL:N	2.31	0.45
3:D:508:ARG:HG2	3:D:508:ARG:HH11	1.81	0.45
3:D:612:GLY:O	3:D:615:ARG:HB2	2.15	0.45
3:D:674:ARG:CZ	5:F:342:VAL:HG11	2.46	0.45
3:D:939:PHE:O	3:D:943:THR:HG23	2.16	0.45
3:D:1036:ARG:HH21	3:D:1042:ARG:HA	1.81	0.45
3:D:1133:ARG:HG2	3:D:1134:LEU:O	2.16	0.45
3:D:1260:ILE:O	3:D:1262:LEU:N	2.49	0.45
1:K:132:LEU:N	1:K:132:LEU:CD1	2.79	0.45
1:K:188:GLN:HE21	1:K:188:GLN:HB2	1.60	0.45
2:M:18:LEU:O	2:M:21:ILE:HD13	2.16	0.45
2:M:100:LEU:HD22	2:M:368:THR:OG1	2.17	0.45
2:M:307:LEU:HG	2:M:311:PHE:CE1	2.51	0.45
2:M:404:LEU:HD12	2:M:404:LEU:HA	1.79	0.45
2:M:578:VAL:HG13	2:M:671:ASN:CB	2.46	0.45
2:M:807:ARG:HB2	2:M:807:ARG:HH11	1.81	0.45
2:M:948:GLU:OE2	2:M:955:PRO:HB3	2.17	0.45
3:N:97:THR:O	3:N:98:PRO:O	2.34	0.45
3:N:576:GLU:O	3:N:579:ASP:HB2	2.16	0.45
3:N:827:ILE:HA	3:N:836:VAL:CG1	2.46	0.45
3:N:1273:VAL:HG23	3:N:1325:LEU:HB2	1.98	0.45
3:N:1377:LYS:HE3	3:N:1394:VAL:HG13	1.97	0.45
3:N:1488:ASP:OD1	4:O:26:ARG:NH1	2.50	0.45
1:A:195:LEU:HD12	1:A:196:THR:N	2.30	0.45
2:C:9:ILE:HG12	2:C:907:ASP:OD2	2.16	0.45
2:C:140:ILE:HG21	2:C:331:ARG:HH12	1.81	0.45
2:C:252:LYS:HE2	2:C:296:GLY:CA	2.44	0.45
2:C:470:PRO:CB	2:C:534:VAL:HG21	2.47	0.45
3:D:19:ARG:O	3:D:20:SER:C	2.54	0.45
3:D:561:GLY:HA3	5:F:184:ARG:NH2	2.30	0.45
3:D:608:SER:HB3	3:D:1443:THR:OG1	2.17	0.45
3:D:993:LEU:O	3:D:994:GLN:C	2.53	0.45
3:D:1109:GLU:HG2	3:D:1202:GLN:N	2.31	0.45
3:D:1197:ARG:NH2	3:D:1377:LYS:HD2	2.32	0.45
3:D:1233:GLY:O	3:D:1236:LEU:HG	2.15	0.45
3:D:1488:ASP:HB3	4:E:39:VAL:CG1	2.42	0.45
1:K:37:GLY:O	1:K:40:LEU:HB2	2.16	0.45
1:K:38:ASN:O	1:K:39:PRO:C	2.55	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:150:TYR:CD1	2:M:696:LYS:HG2	2.51	0.45
1:L:81:ASN:OD1	3:N:867:ARG:NH1	2.49	0.45
1:L:100:LEU:N	1:L:100:LEU:HD12	2.31	0.45
1:L:132:LEU:HD22	1:L:138:LEU:HB2	1.95	0.45
2:M:114:PHE:CZ	5:P:283:GLY:C	2.89	0.45
2:M:345:ARG:C	2:M:347:GLY:N	2.68	0.45
2:M:376:ARG:HA	2:M:376:ARG:NE	2.31	0.45
2:M:824:ARG:HG2	2:M:824:ARG:HH11	1.80	0.45
3:N:55:ASP:HA	3:N:82:LYS:HG2	1.97	0.45
3:N:606:ILE:HG22	3:N:606:ILE:O	2.16	0.45
3:N:1198:TYR:HE2	3:N:1377:LYS:NZ	2.14	0.45
3:N:1388:ARG:HG3	3:N:1389:LEU:CD2	2.41	0.45
4:O:44:GLU:O	4:O:45:ARG:HD3	2.17	0.45
5:P:376:ILE:HG22	5:P:377:ASP:N	2.31	0.45
2:C:770:GLU:HG2	3:D:65:ARG:NH2	2.31	0.45
2:C:978:ARG:HE	2:C:978:ARG:HB2	1.47	0.45
3:D:377:VAL:HG13	3:D:382:GLU:CG	2.41	0.45
3:D:455:ARG:C	3:D:456:MET:HE2	2.36	0.45
3:D:579:ASP:O	3:D:580:ALA:C	2.54	0.45
3:D:601:ARG:O	3:D:601:ARG:CG	2.63	0.45
3:D:761:ILE:O	3:D:767:HIS:CD2	2.69	0.45
3:D:840:LYS:CD	3:D:841:TYR:CZ	3.00	0.45
3:D:914:LEU:HD21	3:D:930:LEU:HD21	1.99	0.45
3:D:1336:LEU:HA	3:D:1344:VAL:CG2	2.47	0.45
1:K:32:PHE:O	1:K:33:GLY:C	2.53	0.45
1:K:150:TYR:CE1	2:M:696:LYS:HA	2.51	0.45
2:M:27:ARG:HB3	2:M:27:ARG:CZ	2.46	0.45
2:M:455:LEU:HD13	2:M:456:ALA:O	2.16	0.45
2:M:539:VAL:HG21	3:N:1067:VAL:HG11	1.98	0.45
2:M:958:THR:HG23	2:M:961:GLU:H	1.82	0.45
2:M:1064:ASN:HD21	5:P:344:ALA:CB	2.29	0.45
2:M:1086:ARG:O	2:M:1087:VAL:C	2.54	0.45
3:N:141:ILE:H	3:N:141:ILE:CD1	2.15	0.45
3:N:1094:LEU:HD13	3:N:1260:ILE:HD13	1.97	0.45
3:N:1158:VAL:CG1	3:N:1159:ARG:N	2.80	0.45
3:N:1188:VAL:HG22	3:N:1189:ARG:N	2.31	0.45
3:N:1326:THR:HG22	3:N:1327:ARG:H	1.81	0.45
5:P:326:ASP:OD2	5:P:326:ASP:N	2.49	0.45
2:C:9:ILE:O	2:C:11:GLU:N	2.50	0.45
2:C:159:ILE:HG21	2:C:175:GLU:OE1	2.17	0.45
2:C:250:ARG:CZ	2:C:253:ALA:HB1	2.46	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:643:VAL:HG13	2:C:647:GLN:CD	2.36	0.45
2:C:671:ASN:ND2	2:C:671:ASN:H	2.12	0.45
2:C:756:VAL:HG23	2:C:825:VAL:HG21	1.98	0.45
2:C:841:ASN:C	2:C:841:ASN:HD22	2.20	0.45
3:D:81:THR:O	3:D:82:LYS:O	2.35	0.45
3:D:119:SER:H	3:D:123:LEU:HD13	1.82	0.45
3:D:177:ALA:O	3:D:179:VAL:N	2.49	0.45
3:D:200:ASP:O	3:D:201:GLY:O	2.35	0.45
3:D:427:VAL:HG21	3:D:435:VAL:HB	1.97	0.45
3:D:963:TYR:CD2	3:D:1002:LYS:HB3	2.51	0.45
3:D:1284:GLU:OE1	3:D:1284:GLU:HA	2.16	0.45
5:F:94:LEU:HD12	5:F:97:GLU:N	2.31	0.45
5:F:113:ILE:HG23	5:F:127:ILE:CG2	2.47	0.45
1:K:43:ILE:CD1	1:L:35:THR:HG21	2.43	0.45
1:L:15:THR:C	1:L:16:GLN:OE1	2.55	0.45
2:M:164:PRO:HD2	2:M:170:PRO:O	2.17	0.45
2:M:987:ILE:HG22	2:M:988:VAL:N	2.31	0.45
2:M:1021:LEU:HG	2:M:1022:GLY:H	1.81	0.45
3:N:128:TYR:CE1	3:N:461:ILE:HG13	2.52	0.45
3:N:224:ARG:HD2	3:N:225:LEU:O	2.17	0.45
3:N:604:THR:O	3:N:606:ILE:N	2.50	0.45
3:N:1066:THR:HG23	3:N:1069:GLU:CG	2.47	0.45
3:N:1451:ALA:O	3:N:1453:ALA:N	2.49	0.45
5:P:403:LYS:O	5:P:407:LYS:HG2	2.17	0.45
1:A:224:TYR:CG	1:B:9:PRO:HG2	2.52	0.45
2:C:9:ILE:HD11	2:C:907:ASP:HB3	1.99	0.45
2:C:35:PRO:C	2:C:37:GLU:H	2.20	0.45
2:C:185:LYS:H	2:C:185:LYS:CE	2.29	0.45
2:C:232:GLU:O	2:C:232:GLU:HG2	2.17	0.45
2:C:334:ARG:HB3	2:C:338:GLU:OE2	2.16	0.45
2:C:482:GLU:OE2	2:C:484:VAL:HG23	2.16	0.45
2:C:513:VAL:O	2:C:524:VAL:HG12	2.17	0.45
2:C:599:GLU:CG	2:C:600:ASP:N	2.79	0.45
2:C:742:VAL:CG1	2:C:743:VAL:N	2.79	0.45
2:C:911:GLU:OE1	3:D:1062:ARG:NH2	2.45	0.45
3:D:95:LEU:HD12	3:D:95:LEU:H	1.80	0.45
3:D:558:LEU:O	3:D:561:GLY:O	2.34	0.45
3:D:609:GLY:C	3:D:611:GLN:H	2.20	0.45
1:K:80:LEU:HD12	1:K:83:LYS:HD3	1.97	0.45
2:M:229:MET:C	2:M:230:ARG:HD3	2.37	0.45
2:M:384:GLU:HG2	2:M:384:GLU:O	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:611:ILE:HD11	2:M:641:PRO:HB3	1.99	0.45
2:M:854:PRO:HB3	2:M:856:GLU:CD	2.37	0.45
2:M:927:GLY:HA2	2:M:930:LYS:HZ1	1.81	0.45
3:N:59:ALA:HB3	3:N:78:VAL:CG2	2.44	0.45
3:N:75:ARG:HE	3:N:75:ARG:N	2.15	0.45
3:N:129:PHE:O	3:N:572:ARG:HG3	2.17	0.45
3:N:237:LYS:HB3	3:N:238:PRO:CD	2.39	0.45
3:N:653:PHE:N	3:N:653:PHE:CD1	2.84	0.45
3:N:710:ARG:C	3:N:712:GLY:N	2.70	0.45
3:N:1062:ARG:HD3	3:N:1062:ARG:O	2.16	0.45
3:N:1122:LEU:HD23	3:N:1178:ALA:HB2	1.98	0.45
3:N:1296:SER:OG	3:N:1297:GLU:N	2.49	0.45
3:N:1382:THR:OG1	3:N:1416:ALA:HB3	2.17	0.45
5:P:261:PRO:O	5:P:264:MET:HB2	2.17	0.45
5:P:400:ILE:HG23	5:P:404:ALA:CB	2.47	0.45
1:A:68:ILE:HB	1:A:71:VAL:HB	1.99	0.45
2:C:188:LYS:HD3	2:C:189:ARG:N	2.32	0.45
2:C:222:MET:O	2:C:223:ASP:C	2.56	0.45
2:C:490:GLU:HG3	2:C:493:ARG:CZ	2.47	0.45
2:C:551:GLU:HG2	2:C:905:ILE:O	2.17	0.45
2:C:601:GLY:HA2	2:C:616:GLU:HG2	1.99	0.45
2:C:705:ILE:HD12	2:C:705:ILE:N	2.31	0.45
2:C:923:GLU:O	2:C:925:TYR:N	2.49	0.45
3:D:119:SER:C	3:D:121:THR:N	2.69	0.45
3:D:536:ALA:HA	5:F:315:VAL:O	2.17	0.45
3:D:661:MET:HE2	3:D:673:ALA:HB1	1.97	0.45
3:D:676:MET:HE3	3:D:684:LYS:H	1.82	0.45
3:D:888:GLU:O	3:D:889:ALA:C	2.54	0.45
3:D:1129:THR:CG2	3:D:1130:ARG:H	2.05	0.45
3:D:1281:VAL:HG12	3:D:1315:ASP:HA	1.98	0.45
4:E:26:ARG:NH2	4:E:38:THR:HA	2.31	0.45
5:F:158:GLU:HA	5:F:161:GLN:CD	2.37	0.45
1:K:33:GLY:HA3	1:K:181:VAL:HG22	1.99	0.45
1:K:88:ARG:HD2	1:K:121:GLU:OE1	2.17	0.45
1:K:129:ILE:O	1:K:130:ALA:HB2	2.17	0.45
3:N:54:LYS:HD3	3:N:57:GLU:HB2	1.99	0.45
3:N:623:VAL:HG12	3:N:625:TYR:H	1.82	0.45
3:N:691:LEU:C	3:N:693:GLU:N	2.69	0.45
3:N:825:ALA:HA	3:N:826:PRO:HD3	1.74	0.45
3:N:838:ARG:HE	3:N:874:GLU:CD	2.20	0.45
3:N:1109:GLU:OE1	3:N:1111:ASP:N	2.50	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1336:LEU:HD22	3:N:1421:LEU:HB2	1.99	0.45
5:P:349:LEU:O	5:P:353:GLU:HB2	2.16	0.45
5:P:419:ARG:O	5:P:421:PHE:N	2.49	0.45
1:B:215:VAL:HG23	1:B:216:GLU:N	2.32	0.45
2:C:325:ILE:O	2:C:325:ILE:HG22	2.17	0.45
2:C:607:ASP:CB	2:C:610:ARG:H	2.30	0.45
2:C:643:VAL:HG23	2:C:655:LEU:HA	1.98	0.45
3:D:72:VAL:HG12	3:D:73:CYS:O	2.17	0.45
3:D:217:LYS:HE3	3:D:388:HIS:C	2.37	0.45
3:D:371:ILE:HD12	3:D:371:ILE:C	2.36	0.45
3:D:806:PHE:HD1	3:D:812:ALA:CB	2.28	0.45
3:D:868:TYR:O	3:D:869:MET:C	2.52	0.45
5:F:78:SER:HB2	5:F:82:ARG:NH2	2.32	0.45
1:K:42:ARG:NH1	2:M:978:ARG:HA	2.32	0.45
1:K:82:LEU:C	1:K:84:GLU:H	2.20	0.45
1:K:117:VAL:HG12	1:K:118:ALA:N	2.32	0.45
1:L:3:ASP:CG	1:L:4:SER:N	2.70	0.45
1:L:30:ARG:HH22	2:M:692:GLU:CD	2.18	0.45
1:L:82:LEU:O	1:L:85:LEU:HB3	2.17	0.45
2:M:15:LEU:HD21	2:M:583:LEU:CD2	2.47	0.45
2:M:42:VAL:HG12	2:M:43:GLY:N	2.32	0.45
2:M:413:LEU:HD12	2:M:451:LEU:HD22	1.99	0.45
2:M:572:ILE:HG13	2:M:573:ARG:H	1.82	0.45
2:M:724:ARG:O	2:M:724:ARG:HG2	2.17	0.45
3:N:150:ARG:NH1	3:N:464:LEU:HD22	2.32	0.45
3:N:598:ARG:HG2	3:N:599:PRO:O	2.17	0.45
3:N:702:LEU:HD22	3:N:716:PHE:CE1	2.52	0.45
3:N:1271:LYS:CE	3:N:1334:GLN:HE22	2.30	0.45
3:N:1271:LYS:CE	3:N:1334:GLN:NE2	2.79	0.45
3:N:1447:LEU:O	3:N:1448:THR:C	2.55	0.45
5:P:139:ALA:HB1	5:P:152:ASP:HB3	1.96	0.45
1:B:78:ILE:C	1:B:80:LEU:N	2.71	0.45
2:C:697:ARG:O	2:C:698:ASP:C	2.53	0.45
3:D:217:LYS:HE3	3:D:389:GLU:HB3	1.99	0.45
3:D:616:GLN:HA	3:D:619:LEU:HD22	1.99	0.45
3:D:1145:TYR:CD2	3:D:1145:TYR:C	2.89	0.45
3:D:1333:HIS:O	3:D:1336:LEU:HB3	2.17	0.45
1:K:178:ALA:HB2	2:M:864:GLY:HA2	1.99	0.45
1:L:32:PHE:C	1:L:34:VAL:N	2.67	0.45
2:M:439:CYS:HA	2:M:440:PRO:HD3	1.74	0.45
2:M:501:THR:CB	2:M:513:VAL:HG11	2.46	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:514:VAL:HG11	2:M:516:ARG:CZ	2.47	0.45
2:M:693:GLU:O	2:M:696:LYS:HB2	2.17	0.45
2:M:697:ARG:O	2:M:699:PHE:N	2.46	0.45
2:M:1014:SER:CB	2:M:1017:THR:HG23	2.47	0.45
2:M:1109:VAL:HG11	3:N:3:LYS:O	2.17	0.45
3:N:225:LEU:C	3:N:227:LEU:HD22	2.37	0.45
3:N:592:THR:N	3:N:600:LEU:HD21	2.32	0.45
3:N:776:GLU:HA	3:N:777:PRO:HD3	1.86	0.45
3:N:781:PRO:HB2	3:N:911:LEU:CD2	2.32	0.45
3:N:868:TYR:HE1	3:N:869:MET:HE2	1.81	0.45
3:N:1047:LYS:HB3	3:N:1048:PRO:CD	2.47	0.45
3:N:1290:LEU:HD12	3:N:1305:LEU:O	2.17	0.45
3:N:1440:PHE:HB2	3:N:1442:ASN:ND2	2.32	0.45
5:P:77:THR:HA	5:P:80:PRO:HD2	1.99	0.45
5:P:114:LYS:O	5:P:116:LEU:N	2.50	0.45
5:P:202:TYR:OH	5:P:244:ARG:HG2	2.16	0.45
1:B:220:GLU:O	1:B:223:THR:HG22	2.17	0.44
2:C:603:VAL:HG23	2:C:647:GLN:O	2.17	0.44
2:C:708:TYR:HE2	2:C:793:PRO:CD	2.29	0.44
2:C:736:ASP:OD1	2:C:747:ALA:HB1	2.16	0.44
2:C:940:GLU:O	2:C:944:LEU:HD12	2.17	0.44
2:C:1034:GLU:HG3	2:C:1035:MET:H	1.82	0.44
2:C:1088:LEU:HG	3:D:607:LEU:CD2	2.47	0.44
3:D:50:PHE:CG	3:D:522:PRO:CG	3.00	0.44
3:D:475:LYS:HG2	3:D:478:LEU:HD12	1.99	0.44
3:D:647:ARG:HD2	3:D:680:GLN:HE22	1.82	0.44
3:D:687:VAL:O	3:D:690:ALA:N	2.49	0.44
3:D:785:ILE:HG13	3:D:939:PHE:CE2	2.52	0.44
3:D:959:GLU:HB2	3:D:963:TYR:HE1	1.80	0.44
3:D:1076:GLY:O	3:D:1079:LYS:HG2	2.17	0.44
3:D:1117:TYR:HE2	3:D:1151:ARG:NH1	2.15	0.44
5:F:419:ARG:CG	5:F:419:ARG:HH11	2.29	0.44
2:M:94:LEU:O	2:M:114:PHE:HA	2.17	0.44
2:M:358:ARG:HH22	2:M:374:ASN:CG	2.20	0.44
2:M:534:VAL:HG23	2:M:538:GLN:NE2	2.31	0.44
2:M:706:GLU:N	2:M:827:VAL:O	2.51	0.44
3:N:119:SER:C	3:N:121:THR:N	2.71	0.44
3:N:162:ARG:HA	3:N:434:ARG:HH21	1.81	0.44
3:N:214:GLU:HG2	3:N:215:TYR:CD1	2.53	0.44
3:N:428:LYS:HD3	3:N:451:ASP:HB3	1.99	0.44
3:N:913:ASP:O	3:N:914:LEU:C	2.55	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1043:GLY:O	3:N:1056:PRO:CA	2.65	0.44
3:N:1090:ASP:O	3:N:1091:SER:C	2.54	0.44
3:N:1281:VAL:HG11	3:N:1314:LYS:O	2.17	0.44
3:N:1365:ASP:O	3:N:1366:LYS:C	2.55	0.44
1:A:224:TYR:CD1	1:B:9:PRO:HD2	2.53	0.44
2:C:551:GLU:OE1	2:C:906:PHE:HA	2.18	0.44
2:C:625:LEU:O	2:C:626:ARG:C	2.55	0.44
2:C:742:VAL:CG1	2:C:743:VAL:H	2.25	0.44
2:C:769:PRO:O	2:C:772:ARG:N	2.49	0.44
2:C:787:ASP:CG	2:C:791:ARG:HH21	2.20	0.44
2:C:853:LEU:HA	2:C:854:PRO:HD3	1.87	0.44
3:D:78:VAL:HG12	3:D:79:GLU:O	2.17	0.44
3:D:136:ASP:HB3	3:D:137:PRO:HD3	1.90	0.44
3:D:656:PHE:HE1	3:D:751:LEU:CD2	2.30	0.44
3:D:1049:SER:OG	3:D:1051:GLU:HG2	2.16	0.44
3:D:1055:VAL:HA	3:D:1056:PRO:HD3	1.83	0.44
5:F:415:THR:HG22	5:F:417:LYS:HE3	1.99	0.44
2:M:135:VAL:HG23	2:M:395:LYS:HA	1.98	0.44
2:M:706:GLU:HG3	2:M:707:ARG:N	2.31	0.44
2:M:799:ILE:O	2:M:801:VAL:HG13	2.16	0.44
2:M:837:ASP:OD2	2:M:999:HIS:CE1	2.70	0.44
2:M:877:PRO:O	2:M:879:ARG:O	2.35	0.44
2:M:984:GLU:HG3	3:N:944:THR:O	2.17	0.44
3:N:46:ASP:OD2	3:N:48:ARG:HB3	2.17	0.44
3:N:421:LEU:HD11	3:N:437:VAL:HG21	1.97	0.44
3:N:570:GLU:O	3:N:573:MET:N	2.50	0.44
3:N:783:ARG:NH1	3:N:1029:ARG:CZ	2.80	0.44
3:N:1102:THR:O	3:N:1102:THR:HG22	2.18	0.44
4:O:16:LYS:O	4:O:18:ARG:N	2.50	0.44
1:A:82:LEU:C	1:A:84:GLU:H	2.21	0.44
1:A:90:LEU:HD12	1:A:119:ASP:CA	2.34	0.44
1:B:23:PHE:O	1:B:197:LEU:HD23	2.17	0.44
1:B:106:PRO:HD3	1:B:134:GLU:OE2	2.17	0.44
2:C:41:ASN:HA	2:C:45:GLN:HG2	1.99	0.44
2:C:631:SER:O	2:C:632:ASN:C	2.56	0.44
2:C:853:LEU:HD23	2:C:858:MET:HB3	1.98	0.44
3:D:10:ILE:HG13	3:D:1434:TRP:CE2	2.52	0.44
3:D:10:ILE:HD11	3:D:1434:TRP:CE2	2.53	0.44
3:D:89:ARG:NH1	3:D:89:ARG:HG2	2.33	0.44
3:D:93:ILE:HD13	3:D:548:ILE:HD13	1.95	0.44
3:D:131:LYS:HD3	5:F:83:GLN:CD	2.38	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:511:TRP:N	3:D:511:TRP:CE3	2.86	0.44
3:D:561:GLY:HA3	5:F:184:ARG:NH1	2.30	0.44
3:D:1198:TYR:CE1	3:D:1460:ILE:HD13	2.52	0.44
3:D:1461:GLY:O	3:D:1473:PRO:HG2	2.18	0.44
5:F:151:LEU:HB2	5:F:155:THR:OG1	2.17	0.44
5:F:188:ILE:HG23	5:F:220:LEU:HD23	1.98	0.44
1:K:44:LEU:HD21	1:K:199:ILE:HD13	1.99	0.44
1:K:115:LEU:HD12	1:K:115:LEU:O	2.17	0.44
2:M:176:VAL:C	2:M:178:PRO:HD3	2.37	0.44
2:M:352:ALA:O	2:M:356:ARG:HG3	2.17	0.44
2:M:433:THR:C	2:M:435:TYR:H	2.20	0.44
2:M:860:HIS:CD2	2:M:975:TYR:HB2	2.52	0.44
2:M:880:MET:CE	3:N:1034:GLN:HG2	2.47	0.44
2:M:1072:LYS:C	3:N:659:LYS:NZ	2.71	0.44
2:M:1115:LEU:HA	3:N:89:ARG:HH21	1.82	0.44
3:N:26:VAL:CG1	3:N:44:LEU:HD23	2.33	0.44
3:N:426:LYS:HG2	3:N:426:LYS:O	2.17	0.44
3:N:457:GLY:C	3:N:459:GLU:N	2.68	0.44
3:N:486:ARG:HH21	3:N:489:ARG:CD	2.28	0.44
3:N:571:LYS:HB2	3:N:571:LYS:HZ2	1.82	0.44
3:N:639:LEU:HA	3:N:729:HIS:CD2	2.52	0.44
3:N:661:MET:O	3:N:664:LYS:O	2.35	0.44
3:N:758:GLU:HG3	4:O:20:THR:HG21	2.00	0.44
3:N:868:TYR:HD1	3:N:869:MET:H	1.65	0.44
3:N:1117:TYR:N	3:N:1117:TYR:CD2	2.86	0.44
3:N:1137:ARG:CD	3:N:1137:ARG:H	2.31	0.44
3:N:1320:GLU:CG	3:N:1323:GLN:HE21	2.31	0.44
5:P:214:GLN:HA	5:P:214:GLN:NE2	2.32	0.44
5:P:340:SER:O	5:P:343:ASP:N	2.50	0.44
5:P:386:VAL:HG13	5:P:394:ARG:NE	2.32	0.44
1:A:123:MET:O	1:A:125:PRO:HD3	2.17	0.44
1:B:81:ASN:ND2	1:B:128:HIS:O	2.50	0.44
1:B:176:ARG:NH2	3:D:884:ARG:HD3	2.31	0.44
2:C:517:ARG:HG3	2:C:517:ARG:NH1	2.32	0.44
2:C:693:GLU:OE1	2:C:693:GLU:HA	2.17	0.44
2:C:704:HIS:CD2	2:C:831:ARG:HH12	2.35	0.44
3:D:207:PHE:HA	3:D:208:PRO:HD3	1.74	0.44
3:D:631:ILE:CG2	3:D:745:MET:HB2	2.47	0.44
3:D:684:LYS:O	3:D:687:VAL:HG23	2.17	0.44
3:D:729:HIS:HD1	3:D:731:LEU:N	2.15	0.44
3:D:833:GLU:O	3:D:834:THR:HG23	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:858:VAL:HG12	3:D:862:ASP:HB2	1.98	0.44
3:D:1197:ARG:C	3:D:1199:GLY:H	2.21	0.44
3:D:1314:LYS:HD3	3:D:1314:LYS:H	1.82	0.44
3:D:1339:LYS:HD3	3:D:1343:ALA:HB1	1.98	0.44
4:E:83:ASP:O	4:E:86:GLN:HG2	2.17	0.44
5:F:84:TYR:HB3	5:F:88:ILE:HD12	1.99	0.44
1:K:47:SER:CB	1:K:217:ILE:HD13	2.45	0.44
1:K:69:PRO:O	1:K:71:VAL:N	2.51	0.44
2:M:114:PHE:CE2	5:P:283:GLY:O	2.71	0.44
2:M:471:TYR:HD1	2:M:486:MET:CE	2.30	0.44
2:M:663:ASN:O	2:M:663:ASN:OD1	2.36	0.44
2:M:710:ILE:HG23	2:M:710:ILE:O	2.17	0.44
3:N:462:GLN:OE1	3:N:466:LYS:HE3	2.17	0.44
3:N:493:ARG:HE	3:N:1389:LEU:CG	2.31	0.44
3:N:628:ARG:O	3:N:629:SER:HB3	2.18	0.44
3:N:753:SER:O	3:N:754:PHE:C	2.55	0.44
3:N:799:LYS:HD2	3:N:799:LYS:C	2.36	0.44
3:N:932:ASP:OD1	3:N:935:LYS:NZ	2.49	0.44
3:N:989:TYR:O	3:N:992:ILE:N	2.38	0.44
3:N:1047:LYS:HB2	3:N:1051:GLU:O	2.16	0.44
3:N:1160:LEU:N	3:N:1160:LEU:HD23	2.33	0.44
4:O:52:GLU:OE2	4:O:52:GLU:HA	2.17	0.44
1:B:77:GLU:HB2	3:D:872:ARG:HH22	1.82	0.44
2:C:141:HIS:HE1	2:C:332:ARG:HH11	1.62	0.44
2:C:191:PHE:CE2	2:C:238:LEU:HD11	2.53	0.44
2:C:326:ASP:HB2	2:C:431:HIS:CE1	2.53	0.44
2:C:328:LEU:HD12	2:C:328:LEU:N	2.32	0.44
2:C:458:TYR:HB3	2:C:470:PRO:CG	2.47	0.44
2:C:563:ASN:O	2:C:564:MET:C	2.53	0.44
2:C:670:GLN:HE22	2:C:699:PHE:CA	2.31	0.44
2:C:943:VAL:HG21	2:C:973:VAL:CG1	2.47	0.44
2:C:1062:GLY:O	2:C:1065:ALA:N	2.50	0.44
2:C:1095:LEU:HD11	3:D:603:LEU:HB3	2.00	0.44
3:D:127:LEU:HD12	3:D:127:LEU:C	2.37	0.44
3:D:232:GLU:HB2	3:D:234:GLU:CD	2.38	0.44
3:D:642:CYS:O	3:D:718:PRO:HA	2.17	0.44
3:D:798:GLU:CG	3:D:799:LYS:H	2.21	0.44
3:D:835:SER:O	3:D:837:GLY:N	2.51	0.44
3:D:965:GLU:OE1	3:D:965:GLU:HA	2.17	0.44
3:D:1147:ARG:HB3	3:D:1188:VAL:HG23	1.99	0.44
1:K:44:LEU:C	1:K:46:SER:H	2.21	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:85:LEU:HD12	1:K:86:VAL:N	2.32	0.44
1:K:214:ALA:O	1:K:215:VAL:C	2.54	0.44
1:L:161:ARG:HG3	1:L:161:ARG:NH1	2.32	0.44
2:M:194:VAL:CG1	2:M:221:LEU:HG	2.47	0.44
2:M:196:LEU:HA	2:M:199:VAL:HG23	1.99	0.44
2:M:559:LEU:HG	2:M:560:MET:N	2.30	0.44
2:M:643:VAL:HG13	2:M:647:GLN:OE1	2.18	0.44
2:M:751:PRO:HB2	3:N:680:GLN:HG3	1.99	0.44
2:M:944:LEU:HD21	2:M:963:LEU:HD23	1.99	0.44
3:N:82:LYS:C	3:N:84:ILE:H	2.20	0.44
3:N:245:LEU:C	3:N:245:LEU:HD13	2.37	0.44
3:N:493:ARG:CB	3:N:493:ARG:HH11	2.30	0.44
3:N:505:SER:O	3:N:506:GLY:O	2.34	0.44
3:N:699:VAL:CB	3:N:716:PHE:O	2.64	0.44
3:N:810:GLU:HA	3:N:813:LEU:CD2	2.47	0.44
3:N:835:SER:H	3:N:838:ARG:HG3	1.81	0.44
3:N:941:PHE:O	3:N:942:SER:C	2.56	0.44
3:N:1163:GLY:O	3:N:1164:ARG:C	2.56	0.44
4:O:54:LEU:HD23	4:O:58:PRO:HD2	2.00	0.44
5:P:77:THR:O	5:P:81:VAL:HG23	2.18	0.44
1:A:4:SER:O	1:A:7:LYS:HB3	2.18	0.44
2:C:455:LEU:C	2:C:455:LEU:HD12	2.38	0.44
2:C:551:GLU:HB3	2:C:906:PHE:HD2	1.75	0.44
2:C:810:ASP:OD2	2:C:815:LEU:HD22	2.17	0.44
2:C:872:ASN:OD1	2:C:873:PRO:HD2	2.17	0.44
2:C:1102:LEU:HD23	2:C:1106:ASP:HB3	2.00	0.44
3:D:166:GLN:HG2	3:D:207:PHE:CG	2.53	0.44
3:D:172:PRO:HA	3:D:178:LEU:HD12	1.99	0.44
3:D:217:LYS:NZ	3:D:217:LYS:HB2	2.28	0.44
3:D:790:TYR:HD2	3:D:906:GLN:O	2.01	0.44
3:D:826:PRO:C	3:D:829:VAL:HG22	2.38	0.44
3:D:1135:ARG:HB2	3:D:1140:ILE:HD11	1.99	0.44
3:D:1389:LEU:O	3:D:1391:GLU:N	2.50	0.44
5:F:191:ASN:O	5:F:194:LEU:HB3	2.17	0.44
1:K:35:THR:HG21	1:L:43:ILE:HD11	1.98	0.44
1:K:195:LEU:CD1	1:K:196:THR:N	2.75	0.44
1:L:201:THR:C	1:L:203:GLY:H	2.20	0.44
2:M:44:ILE:H	2:M:44:ILE:CD1	2.30	0.44
2:M:1016:ILE:HG12	2:M:1017:THR:H	1.82	0.44
2:M:1044:GLY:C	2:M:1046:ALA:N	2.64	0.44
3:N:29:PRO:HG2	3:N:549:ASN:HD22	1.80	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:230:TRP:C	3:N:232:GLU:H	2.21	0.44
3:N:470:LEU:CD1	3:N:503:LEU:HG	2.48	0.44
3:N:808:THR:H	3:N:809:PRO:HD3	1.83	0.44
3:N:928:ALA:O	3:N:931:LEU:HB2	2.18	0.44
3:N:1451:ALA:C	3:N:1453:ALA:N	2.71	0.44
4:O:59:ASN:HD22	4:O:59:ASN:HA	1.62	0.44
1:A:59:GLU:HG3	1:A:60:ASP:H	1.83	0.44
1:B:25:LEU:HD23	1:B:25:LEU:O	2.17	0.44
1:B:58:ILE:CG2	1:B:59:GLU:H	2.18	0.44
2:C:405:ARG:NH1	2:C:563:ASN:ND2	2.65	0.44
2:C:430:VAL:HG13	3:D:1075:HIS:ND1	2.32	0.44
2:C:620:LEU:HD23	2:C:620:LEU:N	2.32	0.44
2:C:876:VAL:H	2:C:877:PRO:HD2	1.82	0.44
3:D:396:VAL:HG22	3:D:447:VAL:CA	2.47	0.44
3:D:568:ARG:O	3:D:572:ARG:N	2.42	0.44
3:D:702:LEU:N	3:D:702:LEU:CD1	2.81	0.44
3:D:1176:LYS:HA	3:D:1179:GLU:HG3	1.99	0.44
3:D:1273:VAL:HG23	3:D:1273:VAL:O	2.17	0.44
5:F:88:ILE:O	5:F:92:PRO:HG3	2.18	0.44
5:F:107:GLU:C	5:F:109:GLY:H	2.21	0.44
5:F:164:LYS:CB	5:F:171:LYS:NZ	2.80	0.44
1:K:189:ARG:CZ	1:L:155:LYS:HE2	2.48	0.44
1:K:215:VAL:HG23	1:K:216:GLU:N	2.32	0.44
2:M:80:GLN:O	2:M:81:ASP:C	2.55	0.44
2:M:863:ASP:OD2	2:M:865:THR:CG2	2.66	0.44
2:M:1015:LEU:HB3	2:M:1016:ILE:HD13	2.00	0.44
2:M:1047:HIS:CE1	2:M:1078:GLU:OE2	2.71	0.44
3:N:657:LEU:O	3:N:658:LEU:C	2.56	0.44
3:N:871:LYS:HZ3	3:N:897:TRP:HZ3	1.60	0.44
3:N:1137:ARG:N	3:N:1137:ARG:HD2	2.33	0.44
1:A:146:ARG:O	1:A:146:ARG:HD3	2.18	0.44
1:A:173:PRO:HB2	1:A:205:VAL:HG22	2.00	0.44
2:C:100:LEU:HG	2:C:368:THR:OG1	2.17	0.44
2:C:118:ILE:HG23	2:C:118:ILE:O	2.18	0.44
2:C:182:VAL:HG21	2:C:220:GLY:O	2.17	0.44
2:C:367:LEU:N	2:C:367:LEU:HD23	2.33	0.44
2:C:975:TYR:N	2:C:975:TYR:CD1	2.86	0.44
3:D:133:ILE:HG21	3:D:454:ALA:CB	2.44	0.44
3:D:211:VAL:HG12	3:D:212:ARG:N	2.30	0.44
3:D:534:ARG:HG2	5:F:312:GLN:HE22	1.83	0.44
3:D:601:ARG:HD3	3:D:606:ILE:HG12	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:639:LEU:HD21	3:D:731:LEU:HB2	2.00	0.44
3:D:645:PRO:O	3:D:648:MET:HB3	2.17	0.44
3:D:1452:ILE:HG22	3:D:1453:ALA:N	2.33	0.44
3:D:1491:THR:HG21	4:E:89:MET:CE	2.48	0.44
5:F:176:ILE:O	5:F:180:GLY:N	2.51	0.44
5:F:287:THR:O	5:F:289:GLU:N	2.51	0.44
1:K:16:GLN:O	1:K:17:GLY:C	2.56	0.44
1:K:26:GLU:HG2	1:K:27:PRO:CA	2.47	0.44
1:K:64:GLU:O	1:K:76:VAL:HG22	2.18	0.44
1:K:221:HIS:HA	1:K:224:TYR:CD2	2.52	0.44
1:L:13:VAL:HG12	1:L:14:ARG:N	2.33	0.44
2:M:244:PRO:CD	2:M:245:GLY:N	2.80	0.44
2:M:367:LEU:HB3	2:M:371:LYS:HE3	1.99	0.44
2:M:520:GLU:O	2:M:522:VAL:HG23	2.17	0.44
2:M:700:TYR:HB2	2:M:833:LEU:HB2	2.00	0.44
2:M:952:LEU:HD22	2:M:952:LEU:N	2.32	0.44
3:N:114:THR:C	3:N:116:LEU:H	2.20	0.44
3:N:115:LEU:HD12	3:N:498:VAL:HG23	2.00	0.44
3:N:658:LEU:O	3:N:661:MET:N	2.50	0.44
3:N:714:GLN:NE2	3:N:732:VAL:HG11	2.33	0.44
3:N:789:LEU:O	3:N:792:ILE:HG22	2.17	0.44
3:N:800:LYS:HE3	3:N:800:LYS:HB3	1.77	0.44
3:N:1015:TYR:N	3:N:1016:PRO:HD3	2.32	0.44
3:N:1038:LEU:HD12	3:N:1038:LEU:N	2.33	0.44
3:N:1106:VAL:HB	3:N:1108:ARG:CZ	2.48	0.44
3:N:1137:ARG:H	3:N:1137:ARG:HD2	1.82	0.44
5:P:247:ILE:O	5:P:250:ALA:HB3	2.18	0.44
5:P:362:SER:O	5:P:363:GLU:O	2.35	0.44
5:P:406:ARG:HB3	5:P:409:LYS:HE2	1.99	0.44
1:A:94:LEU:CD2	1:A:119:ASP:HB2	2.47	0.44
1:A:111:ALA:HB1	1:A:122:ILE:HG21	2.00	0.44
1:A:206:THR:CG2	1:A:208:LEU:HB3	2.48	0.44
2:C:5:ARG:HA	2:C:902:ILE:HB	1.99	0.44
2:C:25:SER:C	2:C:27:ARG:N	2.71	0.44
2:C:154:ARG:C	2:C:156:GLY:N	2.71	0.44
2:C:165:LEU:HA	2:C:166:PRO:C	2.38	0.44
2:C:204:GLN:NE2	2:C:228:ALA:HB2	2.33	0.44
2:C:554:ASP:O	2:C:556:ASN:N	2.51	0.44
2:C:602:GLU:CA	2:C:614:ARG:HB3	2.48	0.44
2:C:791:ARG:HH11	2:C:791:ARG:HG3	1.83	0.44
3:D:34:TYR:CD1	3:D:35:ARG:N	2.85	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:396:VAL:CG1	3:D:446:VAL:N	2.81	0.44
3:D:674:ARG:NE	5:F:342:VAL:HG11	2.32	0.44
3:D:778:LEU:HD12	3:D:778:LEU:HA	1.67	0.44
3:D:897:TRP:CZ2	3:D:902:LEU:HD11	2.53	0.44
3:D:1088:THR:HA	3:D:1234:THR:HG23	1.99	0.44
3:D:1504:GLU:O	3:D:1505:ALA:HB3	2.17	0.44
1:K:18:ARG:HH12	1:K:88:ARG:NE	2.16	0.44
1:K:123:MET:C	1:K:125:PRO:HD3	2.39	0.44
1:L:21:GLY:HA3	1:L:207:PRO:CB	2.48	0.44
2:M:280:LYS:HB2	2:M:281:LEU:HD23	2.00	0.44
2:M:289:THR:HB	2:M:290:LEU:HD23	2.00	0.44
2:M:630:ARG:HH11	2:M:630:ARG:HG3	1.83	0.44
2:M:688:ILE:HD13	2:M:871:LEU:HD11	1.99	0.44
2:M:737:LEU:O	2:M:738:ASP:C	2.56	0.44
2:M:1008:ARG:HH12	3:N:624:ASP:CG	2.20	0.44
2:M:1037:VAL:O	2:M:1038:TRP:C	2.56	0.44
2:M:1092:LEU:HA	2:M:1095:LEU:HD12	1.99	0.44
3:N:609:GLY:HA3	3:N:613:ARG:HB3	2.00	0.44
3:N:774:SER:O	3:N:775:GLY:C	2.56	0.44
3:N:835:SER:O	3:N:838:ARG:N	2.32	0.44
3:N:1149:LEU:O	3:N:1162:GLU:HG2	2.18	0.44
3:N:1160:LEU:O	3:N:1161:GLU:O	2.36	0.44
3:N:1451:ALA:C	3:N:1453:ALA:H	2.21	0.44
3:N:1486:VAL:HG22	4:O:75:PHE:HB3	1.99	0.44
5:P:418:LEU:O	5:P:419:ARG:C	2.55	0.44
1:B:13:VAL:HG12	1:B:14:ARG:N	2.31	0.43
2:C:91:GLN:HB3	2:C:92:ALA:H	1.63	0.43
2:C:309:TYR:CA	2:C:312:ALA:HB3	2.44	0.43
2:C:684:PHE:CD2	2:C:685:GLU:N	2.86	0.43
3:D:112:ILE:HG22	3:D:512:MET:SD	2.58	0.43
3:D:133:ILE:HA	3:D:455:ARG:O	2.18	0.43
3:D:444:VAL:O	3:D:444:VAL:HG13	2.18	0.43
3:D:753:SER:O	3:D:757:ALA:HB2	2.18	0.43
3:D:1279:GLY:O	3:D:1318:TYR:HA	2.17	0.43
3:D:1442:ASN:O	3:D:1444:THR:N	2.51	0.43
3:D:1481:VAL:O	3:D:1482:ARG:C	2.56	0.43
4:E:57:ASP:N	4:E:58:PRO:HD3	2.33	0.43
5:F:102:LEU:CD1	5:F:186:HIS:O	2.66	0.43
5:F:221:ILE:C	5:F:223:ALA:H	2.20	0.43
5:F:235:PHE:O	5:F:238:TYR:N	2.51	0.43
5:F:297:PRO:O	5:F:299:TRP:N	2.49	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:170:VAL:HG23	1:L:170:VAL:O	2.18	0.43
1:L:197:LEU:HD23	1:L:197:LEU:O	2.17	0.43
2:M:146:VAL:HG21	2:M:281:LEU:HD21	2.00	0.43
2:M:428:ARG:NH2	2:M:447:ALA:O	2.51	0.43
2:M:653:ASP:OD1	2:M:654:LEU:N	2.50	0.43
2:M:752:GLY:H	2:M:792:VAL:HB	1.82	0.43
2:M:893:ALA:HB1	2:M:897:LEU:HD22	2.00	0.43
2:M:985:GLY:O	2:M:987:ILE:CD1	2.66	0.43
2:M:1017:THR:O	2:M:1017:THR:HG23	2.18	0.43
2:M:1050:GLN:O	2:M:1051:GLU:C	2.54	0.43
3:N:74:GLU:CB	3:N:75:ARG:HH21	2.23	0.43
3:N:218:LYS:HB3	3:N:373:PRO:O	2.18	0.43
3:N:528:VAL:HG12	3:N:529:GLN:H	1.81	0.43
3:N:1151:ARG:HA	3:N:1151:ARG:HD3	1.88	0.43
3:N:1209:LEU:O	3:N:1210:SER:C	2.56	0.43
5:P:227:PHE:CD1	5:P:235:PHE:HD1	2.36	0.43
1:B:146:ARG:HG3	1:B:146:ARG:O	2.17	0.43
2:C:177:GLU:O	2:C:181:VAL:O	2.35	0.43
2:C:256:TYR:O	2:C:259:GLY:N	2.51	0.43
2:C:672:VAL:CG2	2:C:694:LEU:HD21	2.48	0.43
2:C:826:TYR:HD1	2:C:826:TYR:H	1.64	0.43
2:C:1076:VAL:HA	2:C:1077:PRO:HD3	1.81	0.43
3:D:130:SER:HA	3:D:572:ARG:NH1	2.33	0.43
3:D:220:ARG:O	3:D:221:ALA:HB2	2.19	0.43
3:D:403:PHE:HB3	3:D:404:GLU:H	1.68	0.43
3:D:1031:ASN:HB3	3:D:1034:GLN:NE2	2.33	0.43
3:D:1127:GLU:OE2	3:D:1128:VAL:HG23	2.18	0.43
5:F:188:ILE:HG23	5:F:220:LEU:CD2	2.48	0.43
5:F:371:LEU:CD2	5:F:375:LEU:HB2	2.47	0.43
1:L:151:VAL:CG2	1:L:171:PHE:HE2	2.31	0.43
2:M:154:ARG:HH12	2:M:157:ARG:H	1.65	0.43
2:M:571:LEU:HB3	2:M:701:THR:O	2.18	0.43
2:M:679:PHE:CD1	2:M:870:ILE:HD13	2.52	0.43
2:M:890:LEU:O	2:M:893:ALA:HB3	2.18	0.43
2:M:919:ALA:O	2:M:922:PHE:N	2.50	0.43
2:M:1052:MET:HE1	3:N:623:VAL:HG11	1.99	0.43
2:M:1105:LYS:O	2:M:1106:ASP:C	2.57	0.43
3:N:32:ILE:HD12	3:N:527:MET:HG2	1.99	0.43
3:N:37:LEU:HD11	3:N:529:GLN:NE2	2.33	0.43
3:N:422:ALA:HB3	3:N:427:VAL:CG1	2.47	0.43
3:N:423:ASP:OD2	5:P:175:HIS:HA	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:767:HIS:NE2	4:O:6:ILE:HG12	2.33	0.43
3:N:1034:GLN:O	3:N:1038:LEU:HD13	2.18	0.43
3:N:1192:LEU:CD2	3:N:1345:GLU:OE2	2.66	0.43
4:O:7:ASP:HA	4:O:10:PHE:HB2	1.99	0.43
4:O:32:ARG:O	4:O:34:GLY:N	2.43	0.43
5:P:104:ARG:O	5:P:108:GLU:HB2	2.18	0.43
5:P:148:LYS:O	5:P:148:LYS:HD3	2.17	0.43
1:A:221:HIS:HA	1:A:224:TYR:CE2	2.54	0.43
1:A:222:LEU:HD13	1:A:222:LEU:HA	1.89	0.43
1:B:156:HIS:H	1:B:156:HIS:HD2	1.65	0.43
2:C:25:SER:O	2:C:26:TYR:C	2.53	0.43
2:C:211:LEU:CD1	2:C:308:ARG:HB2	2.48	0.43
3:D:130:SER:OG	3:D:132:TYR:CE1	2.62	0.43
3:D:166:GLN:HB3	3:D:395:VAL:HG23	2.00	0.43
3:D:629:SER:HB3	3:D:726:ILE:CG1	2.49	0.43
3:D:695:ILE:HG22	3:D:696:HIS:N	2.33	0.43
3:D:733:CYS:O	3:D:736:PHE:O	2.36	0.43
3:D:796:ARG:NH1	3:D:861:GLN:OE1	2.51	0.43
3:D:807:ALA:HB1	3:D:833:GLU:OE1	2.18	0.43
3:D:1094:LEU:O	3:D:1094:LEU:HG	2.09	0.43
3:D:1167:SER:C	3:D:1169:ASP:H	2.21	0.43
5:F:409:LYS:HE3	5:F:409:LYS:HB2	1.87	0.43
1:L:157:GLY:O	1:L:158:ILE:O	2.37	0.43
1:L:171:PHE:O	1:L:172:SER:C	2.55	0.43
1:L:181:VAL:CG1	1:L:193:ASP:HB3	2.48	0.43
2:M:32:ALA:HB2	2:M:73:LEU:HD12	1.99	0.43
2:M:63:GLY:HA3	2:M:103:LYS:CD	2.48	0.43
2:M:101:ILE:HD13	2:M:107:LEU:HB3	2.00	0.43
2:M:501:THR:HG22	2:M:513:VAL:CG1	2.49	0.43
2:M:547:ILE:O	2:M:548:PRO:O	2.35	0.43
2:M:734:LEU:O	2:M:735:ARG:C	2.57	0.43
2:M:950:LEU:HD22	2:M:950:LEU:HA	1.89	0.43
3:N:53:ILE:HG23	3:N:54:LYS:N	2.33	0.43
3:N:128:TYR:HB3	3:N:129:PHE:HD1	1.83	0.43
3:N:457:GLY:C	3:N:459:GLU:H	2.21	0.43
3:N:625:TYR:O	3:N:749:VAL:HG23	2.17	0.43
3:N:633:VAL:HG22	3:N:635:PRO:CD	2.49	0.43
3:N:783:ARG:O	3:N:784:ASP:C	2.57	0.43
3:N:792:ILE:HG23	3:N:793:THR:N	2.33	0.43
3:N:997:THR:O	3:N:1001:GLU:HB2	2.19	0.43
3:N:1271:LYS:HZ3	3:N:1273:VAL:HA	1.76	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:P:100:VAL:O	5:P:104:ARG:HB2	2.18	0.43
5:P:274:THR:HG21	5:P:295:MET:HE3	1.98	0.43
5:P:281:GLU:O	5:P:283:GLY:N	2.51	0.43
5:P:389:PHE:CD2	5:P:397:ILE:HD11	2.53	0.43
1:A:92:PRO:C	1:A:94:LEU:H	2.19	0.43
1:B:7:LYS:CE	1:B:186:LEU:HD22	2.46	0.43
1:B:76:VAL:HA	1:B:79:ILE:CG1	2.48	0.43
2:C:205:GLU:HA	2:C:209:ARG:NH1	2.33	0.43
2:C:409:ARG:HG3	2:C:454:SER:OG	2.19	0.43
2:C:920:GLN:O	2:C:920:GLN:CG	2.66	0.43
2:C:1070:ILE:O	2:C:1071:ILE:C	2.56	0.43
3:D:130:SER:HA	3:D:572:ARG:HH12	1.83	0.43
3:D:198:ARG:H	3:D:198:ARG:HG3	1.54	0.43
3:D:213:VAL:HA	3:D:391:ALA:HA	2.00	0.43
3:D:570:GLU:HB2	5:F:214:GLN:HE22	1.74	0.43
3:D:683:ILE:HG23	3:D:687:VAL:HG21	2.01	0.43
3:D:707:THR:C	3:D:708:LEU:HD23	2.38	0.43
3:D:790:TYR:CD2	3:D:1026:SER:HB3	2.53	0.43
3:D:1128:VAL:O	3:D:1129:THR:HG22	2.19	0.43
3:D:1183:ILE:HG22	3:D:1184:GLN:H	1.84	0.43
3:D:1464:GLU:HA	3:D:1467:ILE:HD12	1.99	0.43
4:E:63:TRP:O	4:E:66:LYS:N	2.51	0.43
5:F:164:LYS:CB	5:F:171:LYS:HZ1	2.29	0.43
2:M:64:LEU:HB2	2:M:359:MET:CE	2.48	0.43
2:M:151:ASP:O	2:M:152:PRO:O	2.36	0.43
2:M:184:MET:SD	2:M:186:VAL:HG13	2.58	0.43
2:M:194:VAL:HG13	2:M:221:LEU:CD1	2.49	0.43
2:M:384:GLU:HG3	2:M:388:ARG:HH21	1.83	0.43
2:M:745:ILE:HD13	2:M:745:ILE:N	2.33	0.43
2:M:939:ARG:HH11	2:M:981:GLU:HG2	1.83	0.43
3:N:572:ARG:O	3:N:575:GLN:HB3	2.19	0.43
3:N:846:PRO:O	3:N:850:LEU:HD13	2.19	0.43
3:N:966:GLU:HA	3:N:969:ARG:CD	2.49	0.43
5:P:169:GLU:H	5:P:169:GLU:CD	2.22	0.43
5:P:358:LEU:CD1	5:P:370:LYS:HD2	2.47	0.43
5:P:406:ARG:CA	5:P:409:LYS:HG2	2.33	0.43
1:A:62:LEU:N	1:A:62:LEU:CD1	2.77	0.43
1:A:75:VAL:O	1:A:75:VAL:CG1	2.65	0.43
1:B:206:THR:O	1:B:209:GLU:HB2	2.18	0.43
2:C:321:GLU:O	2:C:322:VAL:C	2.57	0.43
2:C:605:LYS:HE2	2:C:610:ARG:NH2	2.32	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:641:PRO:HA	2:C:656:ALA:CB	2.48	0.43
2:C:760:SER:O	2:C:785:VAL:CG2	2.66	0.43
2:C:957:LYS:HG2	2:C:961:GLU:CB	2.48	0.43
2:C:1013:TYR:CE1	2:C:1063:ARG:NH1	2.86	0.43
2:C:1089:VAL:HG21	2:C:1111:ILE:CD1	2.49	0.43
3:D:730:PRO:HG2	3:D:731:LEU:H	1.82	0.43
3:D:919:PHE:C	3:D:919:PHE:CD2	2.92	0.43
3:D:1285:GLU:O	3:D:1285:GLU:HG2	2.19	0.43
3:D:1459:LEU:CD1	3:D:1468:LEU:HD12	2.48	0.43
5:F:388:ALA:HB3	5:F:397:ILE:HD13	2.00	0.43
1:K:163:ASN:HD22	1:K:163:ASN:HA	1.65	0.43
2:M:14:PRO:O	2:M:15:LEU:O	2.36	0.43
2:M:139:GLN:HB3	2:M:334:ARG:CG	2.49	0.43
2:M:170:PRO:CD	2:M:263:ASP:HB3	2.48	0.43
3:N:60:CYS:SG	3:N:62:LYS:HB2	2.59	0.43
3:N:387:LEU:HD21	5:P:97:GLU:CG	2.48	0.43
3:N:441:ARG:C	3:N:443:VAL:N	2.71	0.43
3:N:774:SER:O	3:N:776:GLU:N	2.52	0.43
3:N:841:TYR:HB3	3:N:843:PHE:CE1	2.53	0.43
3:N:928:ALA:O	3:N:929:ARG:C	2.55	0.43
4:O:57:ASP:N	4:O:58:PRO:HD3	2.34	0.43
5:P:94:LEU:HB2	5:P:98:GLU:CG	2.49	0.43
5:P:278:LEU:HB2	5:P:286:PRO:HG2	2.00	0.43
1:A:25:LEU:HD23	1:A:25:LEU:C	2.38	0.43
1:A:38:ASN:HB3	1:A:39:PRO:CD	2.49	0.43
1:A:97:VAL:CG1	1:A:98:THR:N	2.81	0.43
1:A:119:ASP:OD1	1:A:119:ASP:N	2.51	0.43
1:A:134:GLU:H	1:A:134:GLU:HG2	1.47	0.43
1:A:216:GLU:O	1:A:219:ARG:N	2.52	0.43
1:B:32:PHE:HA	1:B:35:THR:HB	2.00	0.43
1:B:38:ASN:O	1:B:41:ARG:HB3	2.18	0.43
1:B:228:PRO:O	1:B:229:GLN:HB2	2.18	0.43
2:C:35:PRO:C	2:C:37:GLU:N	2.72	0.43
2:C:328:LEU:N	2:C:328:LEU:CD1	2.81	0.43
2:C:679:PHE:HA	3:D:943:THR:HG22	2.00	0.43
2:C:707:ARG:HD2	2:C:826:TYR:CZ	2.52	0.43
2:C:946:ARG:CZ	2:C:984:GLU:HB2	2.49	0.43
2:C:1016:ILE:HD11	5:F:330:GLY:O	2.18	0.43
2:C:1089:VAL:O	2:C:1093:GLN:HB2	2.18	0.43
3:D:8:VAL:CG1	3:D:9:ARG:N	2.81	0.43
3:D:141:ILE:HG22	3:D:142:LEU:H	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:163:TYR:HE2	3:D:167:GLU:CD	2.21	0.43
3:D:601:ARG:HB2	3:D:601:ARG:HH11	1.80	0.43
3:D:666:ILE:HG22	3:D:666:ILE:O	2.19	0.43
3:D:1082:ALA:O	3:D:1083:ASP:C	2.56	0.43
3:D:1117:TYR:HE2	3:D:1151:ARG:HH11	1.65	0.43
3:D:1259:VAL:HG21	3:D:1356:TYR:CE1	2.53	0.43
3:D:1299:PHE:CD2	3:D:1299:PHE:N	2.86	0.43
5:F:371:LEU:HD22	5:F:375:LEU:HB2	2.00	0.43
1:K:43:ILE:HG22	1:K:217:ILE:HD12	2.00	0.43
1:K:121:GLU:HG2	1:K:123:MET:SD	2.58	0.43
1:K:172:SER:HA	1:K:173:PRO:HD3	1.80	0.43
1:L:79:ILE:HG21	1:L:165:ILE:HD11	2.01	0.43
2:M:328:LEU:HA	2:M:328:LEU:HD12	1.77	0.43
2:M:588:VAL:HG23	2:M:596:TYR:OH	2.18	0.43
2:M:985:GLY:HA2	2:M:986:PRO:HD3	1.81	0.43
2:M:1052:MET:SD	2:M:1056:LYS:HD3	2.58	0.43
2:M:1055:LEU:HG	2:M:1079:PRO:HG3	2.00	0.43
3:N:135:LEU:C	3:N:135:LEU:HD23	2.39	0.43
3:N:179:VAL:O	3:N:183:GLU:HB2	2.18	0.43
3:N:559:ALA:C	3:N:561:GLY:N	2.72	0.43
3:N:569:ASN:O	3:N:573:MET:HG3	2.18	0.43
3:N:626:SER:O	3:N:652:LEU:HD11	2.18	0.43
3:N:631:ILE:HG12	3:N:743:ASP:O	2.18	0.43
3:N:1223:ILE:O	3:N:1224:VAL:C	2.55	0.43
3:N:1264:GLU:OE2	3:N:1425:THR:HB	2.18	0.43
3:N:1394:VAL:O	3:N:1398:TRP:CD1	2.71	0.43
3:N:1440:PHE:O	3:N:1443:THR:HG23	2.19	0.43
3:N:1451:ALA:O	3:N:1454:GLY:N	2.45	0.43
1:A:18:ARG:HH11	1:A:123:MET:HE1	1.83	0.43
2:C:9:ILE:CD1	2:C:907:ASP:HB3	2.49	0.43
2:C:630:ARG:HD3	2:C:705:ILE:HB	2.00	0.43
2:C:754:ILE:HD13	2:C:754:ILE:N	2.33	0.43
2:C:859:PRO:HD2	2:C:870:ILE:HD11	2.00	0.43
3:D:25:GLU:OE1	3:D:26:VAL:C	2.57	0.43
3:D:28:LYS:HA	3:D:29:PRO:HD3	1.73	0.43
3:D:168:THR:HG22	3:D:169:TYR:N	2.33	0.43
3:D:368:VAL:CG1	3:D:369:ALA:N	2.81	0.43
3:D:422:ALA:CB	3:D:427:VAL:HG22	2.33	0.43
3:D:1091:SER:O	3:D:1092:GLY:C	2.56	0.43
5:F:107:GLU:C	5:F:109:GLY:N	2.72	0.43
5:F:210:LEU:O	5:F:213:ILE:N	2.51	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:146:ARG:HH21	1:K:147:GLY:HA2	1.84	0.43
1:K:198:ARG:HD2	2:M:934:PHE:CZ	2.54	0.43
2:M:196:LEU:HD23	2:M:200:LEU:HD11	2.01	0.43
2:M:473:ARG:HG3	2:M:474:VAL:N	2.33	0.43
2:M:958:THR:O	2:M:961:GLU:N	2.51	0.43
3:N:100:ALA:HB3	3:N:128:TYR:HE2	1.84	0.43
3:N:148:GLU:O	3:N:149:LYS:C	2.56	0.43
3:N:215:TYR:OH	5:P:101:GLU:HB2	2.18	0.43
3:N:226:PRO:O	3:N:227:LEU:C	2.56	0.43
3:N:834:THR:OG1	3:N:839:LEU:HD21	2.19	0.43
3:N:1045:MET:HG2	3:N:1073:SER:CA	2.41	0.43
3:N:1399:ASP:O	3:N:1403:LEU:HD12	2.19	0.43
1:A:56:VAL:HG21	1:A:79:ILE:HG22	1.99	0.43
1:B:73:GLU:HA	1:B:77:GLU:OE2	2.19	0.43
1:B:183:ASP:HA	1:B:192:LEU:O	2.18	0.43
2:C:432:ARG:HH11	2:C:432:ARG:HG3	1.84	0.43
2:C:734:LEU:O	2:C:735:ARG:C	2.57	0.43
3:D:72:VAL:HG12	3:D:73:CYS:H	1.82	0.43
3:D:211:VAL:HG13	3:D:393:ILE:CG2	2.49	0.43
3:D:771:SER:HB2	3:D:778:LEU:HD13	2.01	0.43
3:D:919:PHE:C	3:D:919:PHE:HD2	2.22	0.43
3:D:989:TYR:CE2	3:D:993:LEU:HD11	2.53	0.43
3:D:1381:VAL:HG12	3:D:1382:THR:N	2.33	0.43
4:E:38:THR:CB	4:E:63:TRP:HZ3	2.31	0.43
5:F:282:LEU:CD1	5:F:284:ARG:HB2	2.46	0.43
1:L:111:ALA:HB3	1:L:124:ASN:O	2.18	0.43
1:L:176:ARG:HG2	1:L:200:TRP:CB	2.49	0.43
2:M:64:LEU:HD13	2:M:359:MET:HG3	2.01	0.43
2:M:767:PRO:O	2:M:768:THR:HG23	2.18	0.43
2:M:892:LEU:HD13	2:M:989:VAL:O	2.19	0.43
2:M:1106:ASP:OD1	3:N:7:LYS:NZ	2.41	0.43
3:N:10:ILE:HG13	3:N:1434:TRP:CZ2	2.54	0.43
3:N:97:THR:HB	3:N:571:LYS:HG3	2.00	0.43
3:N:536:ALA:CB	5:P:315:VAL:CG1	2.95	0.43
3:N:558:LEU:CD2	5:P:145:PRO:HB3	2.41	0.43
3:N:628:ARG:O	3:N:629:SER:CB	2.67	0.43
3:N:670:VAL:HG12	3:N:674:ARG:HG3	2.01	0.43
3:N:676:MET:O	3:N:676:MET:SD	2.76	0.43
3:N:689:ASP:O	3:N:693:GLU:HB2	2.19	0.43
3:N:1101:VAL:CG1	3:N:1424:VAL:HG23	2.38	0.43
5:P:340:SER:O	5:P:341:PRO:C	2.57	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:185:ARG:O	1:A:186:LEU:HD12	2.19	0.43
2:C:352:ALA:HA	2:C:355:VAL:CG1	2.49	0.43
2:C:549:PHE:CZ	2:C:886:LEU:HB3	2.54	0.43
2:C:767:PRO:O	2:C:768:THR:OG1	2.37	0.43
3:D:130:SER:OG	3:D:131:LYS:N	2.52	0.43
3:D:138:LYS:HE3	3:D:138:LYS:N	2.34	0.43
3:D:148:GLU:HB3	3:D:151:GLN:CG	2.49	0.43
3:D:173:PRO:O	3:D:174:GLY:O	2.37	0.43
3:D:543:LEU:HD13	3:D:581:LEU:HA	1.99	0.43
3:D:545:ARG:O	3:D:546:ARG:C	2.57	0.43
3:D:841:TYR:HB3	3:D:843:PHE:CE2	2.53	0.43
3:D:896:ALA:O	3:D:899:LEU:CD1	2.67	0.43
3:D:1035:ILE:HA	3:D:1038:LEU:HD12	1.99	0.43
3:D:1049:SER:CB	3:D:1051:GLU:HG2	2.49	0.43
3:D:1275:SER:HB2	3:D:1325:LEU:HD11	2.00	0.43
3:D:1380:GLU:HB3	3:D:1418:LYS:HB2	2.00	0.43
3:D:1405:GLU:O	3:D:1412:LYS:HA	2.18	0.43
3:D:1478:SER:O	3:D:1479:ASP:C	2.56	0.43
3:D:1485:GLN:HE22	4:E:80:VAL:H	1.66	0.43
1:K:57:TYR:O	1:K:140:MET:HA	2.19	0.43
1:K:63:HIS:CD2	1:K:65:PHE:H	2.35	0.43
1:K:146:ARG:HE	1:K:147:GLY:N	2.17	0.43
2:M:283:ILE:O	2:M:283:ILE:HG22	2.19	0.43
2:M:345:ARG:CZ	2:M:345:ARG:HB2	2.49	0.43
2:M:374:ASN:O	2:M:374:ASN:CG	2.57	0.43
2:M:710:ILE:HD11	2:M:758:ARG:HB2	2.01	0.43
2:M:917:LEU:N	2:M:917:LEU:HD23	2.34	0.43
3:N:32:ILE:HG23	3:N:38:LYS:O	2.19	0.43
3:N:101:HIS:HD2	3:N:582:LEU:HD13	1.81	0.43
3:N:471:GLU:OE2	3:N:503:LEU:HD21	2.19	0.43
3:N:648:MET:O	3:N:649:ALA:C	2.57	0.43
3:N:754:PHE:HA	4:O:24:ALA:HB1	2.00	0.43
3:N:836:VAL:HG13	3:N:837:GLY:H	1.84	0.43
3:N:1004:THR:OG1	3:N:1036:ARG:HD2	2.19	0.43
3:N:1058:ARG:CG	3:N:1058:ARG:NH1	2.80	0.43
3:N:1166:LEU:HB2	3:N:1170:ASP:CB	2.48	0.43
3:N:1215:VAL:CG2	3:N:1216:SER:N	2.81	0.43
4:O:40:LEU:HD21	4:O:67:GLU:HA	1.99	0.43
4:O:63:TRP:O	4:O:64:ALA:C	2.57	0.43
5:P:416:ARG:NH2	5:P:419:ARG:NH1	2.67	0.43
1:A:10:VAL:O	1:A:12:THR:HG23	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:18:ARG:O	1:B:201:THR:HB	2.19	0.43
2:C:145:GLY:O	2:C:163:ILE:HG22	2.19	0.43
2:C:176:VAL:HG12	2:C:182:VAL:HG13	2.00	0.43
2:C:247:PRO:HA	2:C:248:PRO:HD3	1.92	0.43
2:C:660:ALA:O	2:C:667:ALA:HB3	2.19	0.43
2:C:672:VAL:HG22	2:C:868:ASP:CB	2.49	0.43
2:C:725:ASP:OD1	2:C:783:ARG:NH1	2.52	0.43
2:C:1118:LYS:HA	3:D:23:TYR:CE1	2.53	0.43
3:D:49:ILE:HG22	3:D:50:PHE:N	2.33	0.43
3:D:54:LYS:O	3:D:55:ASP:C	2.57	0.43
3:D:55:ASP:CB	3:D:82:LYS:HG2	2.49	0.43
3:D:443:VAL:HG12	3:D:445:ARG:HD2	2.00	0.43
3:D:676:MET:CE	3:D:684:LYS:HG3	2.49	0.43
3:D:864:VAL:CG1	3:D:865:THR:H	2.30	0.43
3:D:1051:GLU:HG2	3:D:1051:GLU:H	1.61	0.43
3:D:1306:PRO:O	3:D:1308:GLU:N	2.51	0.43
3:D:1478:SER:OG	3:D:1480:PHE:HB3	2.19	0.43
4:E:18:ARG:O	4:E:19:LEU:C	2.57	0.43
5:F:140:ARG:HG3	5:F:141:VAL:H	1.84	0.43
1:L:107:LYS:HE2	1:L:109:VAL:HG22	2.00	0.43
1:L:217:ILE:O	1:L:221:HIS:HD2	2.01	0.43
2:M:174:LEU:CD2	2:M:184:MET:HG2	2.49	0.43
2:M:188:LYS:CD	2:M:189:ARG:N	2.73	0.43
2:M:397:GLU:CG	2:M:632:ASN:H	2.32	0.43
2:M:545:ASN:HB3	2:M:583:LEU:HD11	2.00	0.43
2:M:691:SER:OG	2:M:693:GLU:HB3	2.19	0.43
2:M:764:GLU:O	2:M:765:SER:OG	2.32	0.43
2:M:907:ASP:OD1	2:M:907:ASP:O	2.37	0.43
3:N:119:SER:C	3:N:121:THR:H	2.23	0.43
3:N:169:TYR:CG	3:N:169:TYR:O	2.71	0.43
3:N:217:LYS:N	3:N:217:LYS:HD2	2.33	0.43
3:N:627:GLY:O	3:N:746:ALA:HA	2.19	0.43
3:N:789:LEU:HD23	3:N:789:LEU:HA	1.86	0.43
3:N:1488:ASP:CB	3:N:1490:LYS:HG3	2.49	0.43
4:O:5:GLY:O	4:O:9:LEU:HG	2.19	0.43
5:P:229:TYR:C	5:P:231:ARG:H	2.22	0.43
1:A:34:VAL:HB	1:B:42:ARG:CZ	2.49	0.42
1:A:94:LEU:C	1:A:96:THR:H	2.22	0.42
1:B:189:ARG:HD2	1:B:189:ARG:N	2.32	0.42
2:C:100:LEU:HD21	2:C:367:LEU:HG	2.00	0.42
2:C:285:LEU:HD21	2:C:289:THR:HA	1.99	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:542:VAL:O	2:C:543:ASN:C	2.57	0.42
2:C:544:THR:HA	2:C:547:ILE:HD11	2.01	0.42
2:C:721:ARG:O	2:C:758:ARG:HG3	2.19	0.42
2:C:723:THR:OG1	2:C:725:ASP:OD2	2.33	0.42
2:C:1008:ARG:NH2	2:C:1021:LEU:H	2.16	0.42
2:C:1070:ILE:HD13	3:D:656:PHE:CE1	2.54	0.42
3:D:387:LEU:HB3	3:D:388:HIS:H	1.50	0.42
3:D:416:ALA:HB3	3:D:417:PRO:HD3	2.00	0.42
3:D:425:GLY:O	3:D:426:LYS:C	2.57	0.42
3:D:739:ASP:OD2	3:D:741:ASP:OD2	2.37	0.42
3:D:843:PHE:CE1	3:D:849:ALA:HA	2.53	0.42
3:D:907:GLU:HG2	3:D:1027:GLY:H	1.83	0.42
3:D:907:GLU:O	3:D:911:LEU:HD22	2.19	0.42
3:D:950:GLY:N	3:D:953:ASP:OD1	2.45	0.42
3:D:1062:ARG:HD3	3:D:1062:ARG:C	2.39	0.42
3:D:1435:LEU:HB2	3:D:1457:ASP:OD2	2.19	0.42
5:F:251:ILE:O	5:F:255:ALA:CB	2.67	0.42
5:F:358:LEU:CD1	5:F:370:LYS:HZ1	2.31	0.42
1:K:26:GLU:CG	1:K:27:PRO:HA	2.48	0.42
1:L:6:LEU:C	1:L:8:ALA:H	2.22	0.42
1:L:100:LEU:CB	1:L:115:LEU:HD11	2.48	0.42
2:M:134:ARG:HB3	2:M:134:ARG:HH11	1.84	0.42
2:M:226:VAL:HG13	2:M:227:PHE:H	1.84	0.42
2:M:310:LEU:O	2:M:314:THR:HG23	2.18	0.42
2:M:886:LEU:O	2:M:889:HIS:N	2.52	0.42
2:M:943:VAL:O	2:M:946:ARG:N	2.52	0.42
3:N:462:GLN:O	3:N:463:GLN:C	2.57	0.42
3:N:1155:VAL:HG21	3:N:1183:ILE:CD1	2.49	0.42
3:N:1322:GLY:O	3:N:1323:GLN:C	2.57	0.42
3:N:1431:THR:HB	3:N:1432:LYS:HD2	2.00	0.42
3:N:1435:LEU:C	3:N:1437:ALA:H	2.23	0.42
5:P:393:THR:HG23	5:P:394:ARG:HD2	2.01	0.42
5:P:395:GLU:O	5:P:398:ARG:CD	2.67	0.42
1:A:26:GLU:HB2	1:A:27:PRO:HA	2.01	0.42
1:A:86:VAL:HG12	1:A:124:ASN:ND2	2.26	0.42
1:A:124:ASN:N	1:A:125:PRO:CD	2.82	0.42
2:C:20:GLU:O	2:C:24:GLU:HB2	2.18	0.42
2:C:351:LEU:HD11	2:C:373:VAL:HG13	2.01	0.42
3:D:54:LYS:O	3:D:55:ASP:O	2.37	0.42
3:D:166:GLN:HB3	3:D:395:VAL:CG2	2.49	0.42
3:D:433:GLY:H	3:D:448:GLU:C	2.22	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:671:LYS:O	3:D:674:ARG:HB2	2.20	0.42
3:D:1239:ARG:HB3	3:D:1240:THR:H	1.55	0.42
3:D:1277:ILE:CG2	3:D:1278:ASP:H	1.96	0.42
4:E:70:THR:O	4:E:72:ARG:N	2.47	0.42
5:F:140:ARG:HG3	5:F:140:ARG:NH1	2.34	0.42
2:M:208:ALA:HB2	2:M:222:MET:SD	2.58	0.42
2:M:250:ARG:O	2:M:251:ASP:C	2.57	0.42
2:M:580:MET:CE	2:M:584:GLU:HG3	2.50	0.42
2:M:939:ARG:H	2:M:939:ARG:HG2	1.67	0.42
2:M:1033:GLY:O	2:M:1036:GLU:OE1	2.36	0.42
2:M:1049:LEU:O	2:M:1053:LEU:CD2	2.61	0.42
2:M:1053:LEU:HD13	2:M:1053:LEU:HA	1.86	0.42
2:M:1060:ILE:HG22	2:M:1061:GLU:N	2.34	0.42
3:N:82:LYS:C	3:N:84:ILE:N	2.72	0.42
3:N:245:LEU:HD12	3:N:249:TYR:CB	2.45	0.42
3:N:564:GLU:HG2	3:N:565:ILE:H	1.84	0.42
4:O:36:LYS:C	4:O:38:THR:N	2.71	0.42
4:O:47:LYS:HA	4:O:54:LEU:HB3	2.01	0.42
5:P:84:TYR:O	5:P:88:ILE:HG13	2.18	0.42
5:P:316:SER:O	5:P:318:GLU:N	2.52	0.42
5:P:416:ARG:HB3	5:P:419:ARG:HB2	2.01	0.42
1:A:39:PRO:CG	1:B:39:PRO:HG3	2.44	0.42
1:A:44:LEU:HD22	1:A:199:ILE:HG12	2.01	0.42
1:B:3:ASP:HB3	1:B:4:SER:H	1.48	0.42
1:B:94:LEU:HD12	1:B:94:LEU:N	2.35	0.42
2:C:139:GLN:HG2	2:C:140:ILE:N	2.34	0.42
2:C:198:ARG:C	2:C:200:LEU:H	2.22	0.42
2:C:297:GLU:OE1	2:C:297:GLU:O	2.37	0.42
2:C:317:VAL:HG13	2:C:319:GLY:O	2.19	0.42
2:C:395:LYS:O	2:C:633:GLN:NE2	2.51	0.42
2:C:835:VAL:HA	2:C:849:VAL:HG12	2.01	0.42
3:D:419:ASP:O	3:D:421:LEU:N	2.53	0.42
3:D:719:VAL:O	3:D:720:LEU:C	2.57	0.42
3:D:1031:ASN:OD1	3:D:1033:GLN:N	2.50	0.42
5:F:229:TYR:CE1	5:F:230:LYS:HG3	2.54	0.42
1:L:103:ALA:N	1:L:138:LEU:O	2.45	0.42
1:L:176:ARG:NH1	3:N:884:ARG:HD3	2.31	0.42
2:M:341:THR:O	2:M:345:ARG:HB2	2.19	0.42
2:M:517:ARG:O	2:M:519:GLY:N	2.52	0.42
2:M:720:GLU:HA	2:M:759:THR:O	2.19	0.42
2:M:897:LEU:CB	2:M:899:GLN:HE21	2.30	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:946:ARG:CD	2:M:984:GLU:HB2	2.49	0.42
3:N:30:GLU:OE2	3:N:41:ARG:NH2	2.52	0.42
3:N:76:CYS:O	3:N:78:VAL:N	2.52	0.42
3:N:95:LEU:HA	3:N:551:ASN:HD21	1.85	0.42
3:N:126:VAL:HG11	3:N:152:LEU:HD13	2.00	0.42
3:N:196:VAL:CG1	3:N:202:VAL:HG13	2.49	0.42
3:N:209:ARG:HH21	3:N:397:LYS:HG3	1.81	0.42
3:N:240:GLU:HG3	3:N:240:GLU:O	2.19	0.42
3:N:685:ASP:O	3:N:687:VAL:N	2.52	0.42
3:N:941:PHE:O	3:N:945:SER:OG	2.26	0.42
3:N:1158:VAL:CG1	3:N:1159:ARG:H	2.26	0.42
3:N:1166:LEU:CD2	3:N:1166:LEU:H	2.32	0.42
3:N:1435:LEU:C	3:N:1437:ALA:N	2.73	0.42
4:O:54:LEU:CD2	4:O:54:LEU:O	2.67	0.42
5:P:188:ILE:CD1	5:P:224:VAL:HG21	2.50	0.42
5:P:305:GLU:HG2	5:P:309:LYS:HE3	2.01	0.42
5:P:372:ARG:HB3	5:P:378:GLY:O	2.18	0.42
1:A:14:ARG:HH12	1:A:24:VAL:CG2	2.33	0.42
1:A:184:THR:HG22	1:A:192:LEU:O	2.19	0.42
1:B:124:ASN:N	1:B:125:PRO:HD3	2.34	0.42
2:C:3:ILE:CD1	2:C:900:ARG:HG3	2.49	0.42
2:C:420:ARG:HB2	2:C:421:GLU:H	1.60	0.42
2:C:496:ILE:HA	2:C:531:PHE:O	2.19	0.42
2:C:544:THR:O	2:C:547:ILE:HD12	2.19	0.42
2:C:983:ILE:O	2:C:985:GLY:N	2.52	0.42
3:D:145:VAL:HG22	3:D:146:PRO:CD	2.22	0.42
3:D:171:LEU:HA	3:D:172:PRO:HD3	1.71	0.42
3:D:396:VAL:CG1	3:D:446:VAL:H	2.32	0.42
3:D:520:LEU:HD23	3:D:540:LEU:HD13	2.01	0.42
3:D:533:GLY:CA	5:F:309:LYS:HB3	2.44	0.42
3:D:598:ARG:HG2	3:D:598:ARG:NH1	2.34	0.42
3:D:907:GLU:CG	3:D:908:LYS:N	2.53	0.42
3:D:1128:VAL:O	3:D:1129:THR:CG2	2.67	0.42
3:D:1474:ALA:O	3:D:1475:GLY:C	2.57	0.42
5:F:108:GLU:HG3	5:F:176:ILE:HG21	2.01	0.42
1:L:206:THR:HG22	1:L:209:GLU:CD	2.39	0.42
2:M:157:ARG:HH11	2:M:157:ARG:HG3	1.85	0.42
2:M:244:PRO:CG	2:M:245:GLY:N	2.82	0.42
2:M:249:LYS:O	2:M:251:ASP:N	2.52	0.42
2:M:311:PHE:HA	2:M:314:THR:OG1	2.19	0.42
2:M:351:LEU:O	2:M:355:VAL:HG12	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:526:PRO:HD2	2:M:527:GLU:OE2	2.18	0.42
2:M:630:ARG:HH11	2:M:630:ARG:CG	2.32	0.42
2:M:1005:MET:HB2	3:N:629:SER:HB2	2.01	0.42
2:M:1085:PHE:HD2	2:M:1088:LEU:HD23	1.84	0.42
3:N:217:LYS:CD	3:N:217:LYS:H	2.32	0.42
3:N:224:ARG:HD2	3:N:225:LEU:N	2.35	0.42
3:N:457:GLY:O	3:N:459:GLU:N	2.53	0.42
3:N:496:LEU:O	3:N:500:ARG:HG2	2.18	0.42
3:N:700:VAL:CG2	3:N:718:PRO:HG3	2.46	0.42
3:N:1262:LEU:HD23	3:N:1352:ILE:CG1	2.46	0.42
4:O:25:LYS:O	4:O:29:GLN:HG2	2.19	0.42
5:P:164:LYS:C	5:P:166:LEU:H	2.23	0.42
5:P:365:GLU:HA	5:P:368:VAL:HG23	2.01	0.42
1:B:7:LYS:CE	1:B:186:LEU:HD13	2.50	0.42
2:C:71:TYR:CD2	2:C:71:TYR:N	2.86	0.42
2:C:246:ASP:HA	2:C:247:PRO:HD3	1.77	0.42
2:C:455:LEU:HD13	2:C:456:ALA:O	2.19	0.42
2:C:734:LEU:O	2:C:737:LEU:N	2.50	0.42
2:C:918:LEU:HD23	2:C:968:LEU:O	2.19	0.42
2:C:964:LYS:C	2:C:968:LEU:HD12	2.40	0.42
3:D:116:LEU:HD23	3:D:116:LEU:HA	1.94	0.42
3:D:128:TYR:CE1	3:D:461:ILE:HG13	2.54	0.42
3:D:218:LYS:HD3	3:D:372:ASP:N	2.32	0.42
3:D:368:VAL:CG1	3:D:369:ALA:H	2.28	0.42
3:D:701:LEU:O	3:D:747:VAL:HA	2.19	0.42
3:D:756:GLN:O	3:D:760:ARG:HG2	2.19	0.42
3:D:1065:LEU:HD11	3:D:1069:GLU:HB3	2.00	0.42
3:D:1294:VAL:O	3:D:1300:SER:HA	2.19	0.42
5:F:205:ARG:HH11	5:F:251:ILE:HG21	1.85	0.42
5:F:221:ILE:C	5:F:223:ALA:N	2.72	0.42
1:K:143:ARG:HG2	1:K:144:VAL:H	1.84	0.42
1:L:137:ARG:NH1	1:L:139:ASN:HB3	2.28	0.42
2:M:27:ARG:HB3	2:M:27:ARG:NH1	2.34	0.42
2:M:246:ASP:HA	2:M:247:PRO:HD3	1.81	0.42
2:M:313:LEU:C	2:M:315:ALA:N	2.73	0.42
2:M:627:ARG:HB3	2:M:627:ARG:CZ	2.49	0.42
2:M:893:ALA:O	2:M:895:TYR:N	2.53	0.42
2:M:1015:LEU:CD1	2:M:1016:ILE:HG23	2.49	0.42
2:M:1053:LEU:N	2:M:1053:LEU:HD22	2.35	0.42
3:N:133:ILE:HD12	3:N:158:TYR:CD2	2.55	0.42
3:N:438:ASP:O	3:N:441:ARG:O	2.37	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:783:ARG:O	3:N:785:ILE:N	2.52	0.42
3:N:789:LEU:C	3:N:792:ILE:HG22	2.38	0.42
5:P:101:GLU:O	5:P:105:LYS:HG3	2.19	0.42
1:A:73:GLU:HG3	1:A:130:ALA:CB	2.49	0.42
1:A:97:VAL:HG11	1:A:120:VAL:HG21	2.02	0.42
1:A:102:LYS:HA	1:A:139:ASN:HA	2.01	0.42
1:A:206:THR:HG22	1:A:208:LEU:H	1.82	0.42
2:C:313:LEU:C	2:C:315:ALA:N	2.72	0.42
2:C:438:ILE:CG2	2:C:453:THR:OG1	2.68	0.42
2:C:497:ALA:N	2:C:531:PHE:O	2.41	0.42
2:C:524:VAL:CG2	2:C:525:SER:H	2.17	0.42
2:C:903:SER:O	2:C:904:PRO:O	2.37	0.42
3:D:32:ILE:HD12	3:D:527:MET:CG	2.47	0.42
3:D:247:GLU:N	3:D:248:PRO:CD	2.83	0.42
3:D:470:LEU:O	3:D:471:GLU:C	2.58	0.42
3:D:646:LYS:O	3:D:649:ALA:N	2.53	0.42
3:D:667:ALA:HA	3:D:668:PRO:HD3	1.91	0.42
3:D:1280:VAL:CG1	3:D:1281:VAL:H	2.17	0.42
5:F:141:VAL:O	5:F:145:PRO:CG	2.59	0.42
5:F:231:ARG:O	5:F:233:PHE:N	2.53	0.42
5:F:287:THR:C	5:F:289:GLU:N	2.72	0.42
5:F:416:ARG:CZ	5:F:419:ARG:CG	2.98	0.42
1:K:20:TYR:HE2	1:K:198:ARG:HB3	1.84	0.42
1:K:44:LEU:HD13	1:K:177:VAL:HG21	2.00	0.42
1:K:85:LEU:HD11	1:K:87:VAL:HG12	2.02	0.42
1:L:58:ILE:HD13	1:L:140:MET:HB3	1.98	0.42
2:M:187:ASN:HB3	2:M:188:LYS:H	1.66	0.42
2:M:865:THR:HA	2:M:866:PRO:HD3	1.76	0.42
2:M:872:ASN:HA	2:M:873:PRO:HD3	1.87	0.42
2:M:1114:GLY:O	2:M:1116:ALA:N	2.50	0.42
3:N:196:VAL:HG13	3:N:202:VAL:CG1	2.48	0.42
3:N:233:LYS:O	3:N:238:PRO:HD3	2.19	0.42
3:N:470:LEU:O	3:N:474:GLU:N	2.46	0.42
3:N:491:LYS:O	3:N:491:LYS:HD3	2.20	0.42
3:N:653:PHE:CE2	3:N:695:ILE:CD1	3.03	0.42
3:N:799:LYS:O	3:N:799:LYS:CD	2.57	0.42
3:N:989:TYR:O	3:N:992:ILE:HB	2.18	0.42
3:N:1175:ILE:O	3:N:1175:ILE:HG22	2.20	0.42
3:N:1483:PHE:N	3:N:1483:PHE:CD1	2.88	0.42
4:O:93:TYR:HA	4:O:94:PRO:HD3	1.62	0.42
5:P:171:LYS:O	5:P:174:LEU:N	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:P:229:TYR:C	5:P:231:ARG:N	2.71	0.42
1:A:7:LYS:O	1:A:7:LYS:HG2	2.19	0.42
1:B:86:VAL:HG13	1:B:86:VAL:O	2.20	0.42
1:B:150:TYR:OH	1:B:168:ASP:HB3	2.20	0.42
2:C:148:PHE:HB3	2:C:313:LEU:CD2	2.50	0.42
2:C:602:GLU:N	2:C:614:ARG:O	2.50	0.42
2:C:611:ILE:HD12	2:C:625:LEU:HD21	2.01	0.42
2:C:691:SER:HB2	2:C:858:MET:SD	2.60	0.42
2:C:751:PRO:HG3	2:C:796:GLU:HA	2.01	0.42
2:C:1059:ASP:CG	2:C:1062:GLY:H	2.22	0.42
2:C:1078:GLU:HA	2:C:1079:PRO:HD3	1.87	0.42
2:C:1098:ASP:HB2	3:D:13:ALA:HB2	2.02	0.42
3:D:137:PRO:O	3:D:138:LYS:C	2.58	0.42
3:D:179:VAL:HG11	3:D:217:LYS:HZ3	1.83	0.42
3:D:631:ILE:HG21	3:D:745:MET:HB2	2.01	0.42
3:D:1195:GLN:HG2	3:D:1196:THR:N	2.34	0.42
3:D:1340:GLY:O	3:D:1343:ALA:HB3	2.19	0.42
3:D:1366:LYS:O	3:D:1370:ILE:HG12	2.19	0.42
5:F:155:THR:O	5:F:159:ILE:HG13	2.20	0.42
5:F:203:THR:HA	5:F:212:LEU:HD13	2.02	0.42
5:F:262:VAL:O	5:F:266:GLU:HG3	2.19	0.42
1:K:182:GLU:C	2:M:938:LYS:HZ2	2.23	0.42
1:L:1:MET:CE	1:L:1:MET:N	2.82	0.42
1:L:48:ILE:HA	1:L:49:PRO:HD3	1.72	0.42
1:L:180:GLN:O	1:L:196:THR:CG2	2.68	0.42
2:M:72:ARG:HG3	2:M:72:ARG:HH11	1.84	0.42
2:M:86:LYS:CG	2:M:813:VAL:HG12	2.28	0.42
2:M:327:HIS:O	2:M:329:GLY:N	2.52	0.42
2:M:462:ASP:OD1	2:M:463:GLU:N	2.53	0.42
2:M:693:GLU:HG3	2:M:697:ARG:NH1	2.34	0.42
3:N:559:ALA:O	3:N:561:GLY:N	2.53	0.42
3:N:710:ARG:HG3	3:N:711:LEU:N	2.34	0.42
3:N:798:GLU:HG2	3:N:799:LYS:H	1.85	0.42
3:N:810:GLU:C	3:N:813:LEU:HG	2.40	0.42
3:N:1117:TYR:N	3:N:1117:TYR:HD2	2.17	0.42
3:N:1146:GLY:HA3	3:N:1207:TYR:CD1	2.55	0.42
3:N:1214:PRO:O	3:N:1215:VAL:C	2.56	0.42
4:O:14:ASP:OD1	4:O:18:ARG:NH1	2.53	0.42
5:P:319:THR:HG22	5:P:320:PRO:N	2.34	0.42
1:A:111:ALA:O	1:A:112:ARG:C	2.58	0.42
2:C:865:THR:HA	2:C:866:PRO:HD3	1.59	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1016:ILE:N	2:C:1016:ILE:CD1	2.64	0.42
2:C:1077:PRO:O	2:C:1078:GLU:C	2.58	0.42
3:D:171:LEU:HB2	3:D:390:PRO:HG3	2.01	0.42
3:D:217:LYS:HZ1	3:D:389:GLU:CB	2.33	0.42
3:D:220:ARG:CA	3:D:367:ILE:HG22	2.49	0.42
3:D:827:ILE:HG23	3:D:837:GLY:HA2	2.02	0.42
5:F:264:MET:O	5:F:268:ILE:HG13	2.19	0.42
1:K:97:VAL:HG12	1:K:99:LEU:HD12	2.02	0.42
1:K:189:ARG:NH1	1:L:155:LYS:HZ1	2.18	0.42
1:L:91:ASN:HA	1:L:92:PRO:HD3	1.83	0.42
1:L:188:GLN:HG3	1:L:189:ARG:N	2.32	0.42
2:M:370:ALA:CB	5:P:280:GLN:HA	2.50	0.42
2:M:401:LEU:O	2:M:404:LEU:HB3	2.20	0.42
2:M:675:ALA:O	2:M:870:ILE:HA	2.20	0.42
2:M:704:HIS:O	2:M:828:ALA:HA	2.20	0.42
2:M:722:ILE:HG21	2:M:821:GLU:OE1	2.20	0.42
2:M:833:LEU:HD12	2:M:837:ASP:OD1	2.20	0.42
2:M:899:GLN:HG3	2:M:901:TYR:CE2	2.55	0.42
2:M:971:LYS:HA	2:M:988:VAL:HA	2.01	0.42
2:M:1046:ALA:CB	3:N:1476:THR:HB	2.49	0.42
3:N:428:LYS:HD3	3:N:451:ASP:OD1	2.19	0.42
3:N:459:GLU:OE1	5:P:144:ILE:HD12	2.19	0.42
3:N:806:PHE:CE1	3:N:813:LEU:HD23	2.54	0.42
3:N:825:ALA:HB1	3:N:829:VAL:HG21	2.02	0.42
3:N:1155:VAL:C	3:N:1157:GLY:H	2.19	0.42
4:O:45:ARG:HB3	4:O:46:PRO:HD2	2.01	0.42
5:P:400:ILE:O	5:P:404:ALA:N	2.51	0.42
1:A:67:THR:HG21	2:C:609:ASN:HD21	1.84	0.42
1:A:79:ILE:HD12	1:A:79:ILE:C	2.40	0.42
1:A:89:PHE:CE2	1:A:94:LEU:O	2.72	0.42
1:A:101:LEU:HD23	1:A:102:LYS:N	2.35	0.42
1:B:86:VAL:CG1	1:B:123:MET:HB2	2.46	0.42
2:C:19:THR:HG22	2:C:23:VAL:HG23	2.02	0.42
2:C:52:PHE:CB	2:C:53:PRO:HD3	2.50	0.42
2:C:149:THR:CG2	2:C:150:PRO:HD2	2.49	0.42
2:C:589:ARG:HB2	2:C:589:ARG:HH11	1.85	0.42
2:C:972:VAL:CG2	2:C:974:LEU:HD13	2.50	0.42
3:D:44:LEU:O	3:D:50:PHE:CE1	2.73	0.42
3:D:207:PHE:HB3	3:D:395:VAL:CG2	2.50	0.42
3:D:750:PRO:HG2	3:D:750:PRO:O	2.20	0.42
4:E:60:ALA:O	4:E:63:TRP:HB2	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:84:TYR:CZ	5:F:192:LEU:HD22	2.55	0.42
1:L:186:LEU:HD23	1:L:186:LEU:C	2.39	0.42
2:M:135:VAL:HG12	2:M:136:ILE:N	2.35	0.42
2:M:137:VAL:HG12	2:M:138:SER:N	2.34	0.42
2:M:150:PRO:HG3	2:M:158:TYR:CD2	2.55	0.42
2:M:174:LEU:HD23	2:M:184:MET:HA	2.02	0.42
2:M:432:ARG:CZ	3:N:1048:PRO:HD2	2.50	0.42
2:M:451:LEU:HD23	2:M:451:LEU:HA	1.92	0.42
2:M:625:LEU:HD11	2:M:641:PRO:HG3	2.01	0.42
2:M:856:GLU:H	2:M:856:GLU:HG3	1.54	0.42
2:M:971:LYS:HD2	2:M:986:PRO:O	2.20	0.42
3:N:159:ARG:HG3	3:N:159:ARG:NH1	2.34	0.42
3:N:179:VAL:HG11	3:N:217:LYS:CE	2.50	0.42
3:N:423:ASP:CG	5:P:175:HIS:HA	2.40	0.42
3:N:564:GLU:CG	3:N:565:ILE:HD12	2.40	0.42
3:N:619:LEU:O	3:N:619:LEU:HD23	2.20	0.42
3:N:757:ALA:HB1	3:N:761:ILE:HD12	2.01	0.42
3:N:939:PHE:O	3:N:943:THR:HG22	2.20	0.42
3:N:1031:ASN:HB3	3:N:1034:GLN:HB2	2.01	0.42
3:N:1158:VAL:HG21	3:N:1173:LEU:HD21	2.01	0.42
3:N:1486:VAL:HG21	4:O:22:VAL:HG13	2.02	0.42
4:O:51:LEU:O	4:O:52:GLU:CD	2.58	0.42
5:P:94:LEU:HB2	5:P:98:GLU:OE1	2.20	0.42
5:P:305:GLU:O	5:P:309:LYS:HG3	2.20	0.42
1:A:18:ARG:HD3	1:A:123:MET:HE1	2.02	0.42
1:A:124:ASN:CG	1:A:127:LEU:HD23	2.41	0.42
1:A:206:THR:HB	1:A:209:GLU:HB2	2.01	0.42
1:B:42:ARG:HG2	1:B:42:ARG:HH11	1.85	0.42
2:C:49:ARG:NH1	2:C:49:ARG:CB	2.69	0.42
2:C:493:ARG:HD2	2:C:494:TYR:OH	2.20	0.42
2:C:639:GLN:HA	2:C:657:ASP:O	2.20	0.42
2:C:725:ASP:OD2	2:C:725:ASP:N	2.53	0.42
2:C:1095:LEU:HA	3:D:582:LEU:CD2	2.50	0.42
3:D:179:VAL:CG1	3:D:217:LYS:HZ1	2.33	0.42
3:D:413:ASP:OD2	3:D:419:ASP:HB3	2.19	0.42
3:D:653:PHE:CD1	3:D:653:PHE:N	2.84	0.42
3:D:729:HIS:CE1	3:D:731:LEU:HG	2.44	0.42
3:D:1076:GLY:CA	3:D:1079:LYS:HG2	2.48	0.42
3:D:1356:TYR:CD2	3:D:1363:LEU:HD23	2.55	0.42
5:F:419:ARG:HG3	5:F:420:ASP:N	2.34	0.42
1:K:211:LEU:O	1:K:215:VAL:HG13	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:188:LYS:HD3	2:M:189:ARG:CA	2.47	0.42
2:M:266:ARG:HG3	2:M:266:ARG:NH1	2.34	0.42
2:M:343:GLN:HE21	2:M:343:GLN:HB2	1.65	0.42
2:M:516:ARG:CD	3:N:1068:LEU:HD13	2.47	0.42
2:M:774:LEU:C	2:M:774:LEU:HD13	2.40	0.42
2:M:1008:ARG:HG2	2:M:1008:ARG:HH11	1.85	0.42
2:M:1055:LEU:O	2:M:1063:ARG:HB3	2.19	0.42
3:N:45:PHE:HD1	3:N:522:PRO:HB3	1.85	0.42
3:N:137:PRO:HG2	3:N:453:ASP:HB3	2.02	0.42
3:N:212:ARG:HB2	3:N:445:ARG:HH21	1.85	0.42
3:N:225:LEU:HB2	3:N:227:LEU:CD1	2.50	0.42
3:N:455:ARG:NH2	5:P:140:ARG:HB2	2.27	0.42
3:N:477:LEU:O	3:N:481:MET:HB2	2.20	0.42
3:N:598:ARG:NH2	5:P:316:SER:OG	2.52	0.42
3:N:924:MET:CB	4:O:7:ASP:OD2	2.66	0.42
3:N:930:LEU:HG	3:N:934:LEU:HD12	2.02	0.42
3:N:948:THR:O	3:N:1019:PRO:HB3	2.20	0.42
3:N:1128:VAL:O	3:N:1129:THR:C	2.57	0.42
5:P:338:LEU:HA	5:P:339:PRO:HD3	1.76	0.42
1:A:198:ARG:NH2	2:C:934:PHE:HE1	2.17	0.41
1:B:114:PHE:O	1:B:116:PRO:HD3	2.19	0.41
2:C:27:ARG:C	2:C:29:ALA:N	2.73	0.41
2:C:101:ILE:HG23	2:C:107:LEU:CD2	2.48	0.41
2:C:188:LYS:HE2	2:C:188:LYS:CA	2.50	0.41
2:C:266:ARG:H	2:C:288:ARG:CD	2.32	0.41
2:C:395:LYS:CE	2:C:403:SER:HB2	2.50	0.41
2:C:395:LYS:CE	2:C:407:LYS:NZ	2.76	0.41
2:C:816:LYS:HB2	2:C:819:VAL:CG2	2.50	0.41
2:C:923:GLU:O	2:C:926:PHE:N	2.52	0.41
2:C:961:GLU:OE1	2:C:961:GLU:HA	2.19	0.41
2:C:1053:LEU:HG	3:D:1466:VAL:HG13	2.01	0.41
2:C:1059:ASP:OD2	2:C:1080:SER:N	2.46	0.41
3:D:202:VAL:HG12	3:D:204:LEU:HD21	2.02	0.41
3:D:653:PHE:CD1	3:D:695:ILE:HD11	2.54	0.41
3:D:894:LYS:O	3:D:897:TRP:N	2.48	0.41
3:D:1101:VAL:CG2	3:D:1424:VAL:HG13	2.46	0.41
3:D:1207:TYR:CD1	3:D:1212:ALA:O	2.73	0.41
3:D:1331:ASP:OD2	3:D:1332:PRO:N	2.52	0.41
5:F:151:LEU:HB2	5:F:155:THR:N	2.21	0.41
5:F:248:ASN:O	5:F:251:ILE:HB	2.20	0.41
5:F:321:ILE:HG22	5:F:327:SER:O	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:362:SER:O	5:F:364:ARG:N	2.53	0.41
1:L:92:PRO:C	1:L:94:LEU:N	2.72	0.41
2:M:208:ALA:HB1	2:M:222:MET:CE	2.49	0.41
2:M:277:ALA:O	2:M:281:LEU:O	2.38	0.41
2:M:340:MET:SD	2:M:340:MET:O	2.77	0.41
2:M:397:GLU:HG3	2:M:632:ASN:H	1.85	0.41
2:M:762:LYS:CG	2:M:763:GLY:H	2.31	0.41
2:M:1004:LYS:O	2:M:1006:HIS:ND1	2.53	0.41
2:M:1034:GLU:HA	2:M:1037:VAL:CG2	2.50	0.41
3:N:382:GLU:C	3:N:384:VAL:H	2.24	0.41
3:N:486:ARG:NH2	3:N:489:ARG:CZ	2.83	0.41
3:N:637:LEU:CD1	3:N:641:GLN:HB2	2.50	0.41
3:N:703:ASN:HD22	3:N:703:ASN:HA	1.55	0.41
3:N:902:LEU:C	3:N:904:VAL:H	2.23	0.41
3:N:1023:MET:HB3	3:N:1029:ARG:O	2.20	0.41
3:N:1090:ASP:O	3:N:1093:TYR:N	2.53	0.41
3:N:1187:PRO:O	3:N:1187:PRO:HG2	2.19	0.41
5:P:88:ILE:HG21	5:P:193:ARG:CD	2.50	0.41
5:P:350:LEU:O	5:P:354:LEU:HG	2.20	0.41
5:P:420:ASP:O	5:P:421:PHE:C	2.59	0.41
1:A:24:VAL:HG12	1:A:25:LEU:N	2.35	0.41
1:A:70:GLY:N	2:C:607:ASP:OD2	2.49	0.41
1:A:168:ASP:OD2	2:C:830:LYS:NZ	2.53	0.41
1:B:26:GLU:HB2	1:B:27:PRO:HA	2.01	0.41
1:B:85:LEU:HD11	1:B:122:ILE:HG23	2.02	0.41
1:B:156:HIS:CD2	1:B:157:GLY:N	2.86	0.41
1:B:209:GLU:O	1:B:212:ASN:HB2	2.19	0.41
1:B:212:ASN:N	1:B:212:ASN:HD22	2.18	0.41
2:C:564:MET:HG2	2:C:840:ALA:CB	2.50	0.41
2:C:683:ASN:OD1	2:C:683:ASN:N	2.53	0.41
2:C:1059:ASP:CG	2:C:1080:SER:HB2	2.39	0.41
3:D:179:VAL:CG1	3:D:217:LYS:NZ	2.83	0.41
3:D:221:ALA:HB1	3:D:224:ARG:HD2	2.02	0.41
3:D:508:ARG:HG2	3:D:508:ARG:NH1	2.35	0.41
3:D:994:GLN:HE21	3:D:998:GLU:CG	2.33	0.41
3:D:1176:LYS:HA	3:D:1179:GLU:CG	2.50	0.41
4:E:31:LEU:O	4:E:32:ARG:C	2.58	0.41
4:E:65:MET:O	4:E:69:LEU:HB2	2.20	0.41
5:F:79:ASP:O	5:F:83:GLN:N	2.32	0.41
1:K:179:PHE:O	1:K:180:GLN:CG	2.68	0.41
1:K:209:GLU:O	1:K:213:GLN:NE2	2.53	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:57:TYR:CE1	1:L:163:ASN:HB2	2.53	0.41
1:L:143:ARG:CD	1:L:158:ILE:HG21	2.50	0.41
2:M:14:PRO:C	2:M:15:LEU:O	2.56	0.41
2:M:196:LEU:HD12	2:M:238:LEU:HD11	2.02	0.41
2:M:263:ASP:CB	2:M:264:PRO:HD3	2.49	0.41
2:M:670:GLN:NE2	2:M:699:PHE:HA	2.31	0.41
2:M:751:PRO:CG	3:N:680:GLN:HE21	2.33	0.41
2:M:762:LYS:HB2	2:M:762:LYS:HZ3	1.85	0.41
2:M:798:GLY:H	2:M:827:VAL:HG12	1.83	0.41
2:M:909:ALA:C	2:M:910:LYS:HD2	2.41	0.41
2:M:1060:ILE:HG13	2:M:1083:GLU:CG	2.36	0.41
3:N:428:LYS:CD	3:N:451:ASP:HB3	2.50	0.41
3:N:789:LEU:O	3:N:792:ILE:CG2	2.68	0.41
3:N:790:TYR:CD2	3:N:1026:SER:HB3	2.55	0.41
3:N:845:ASN:H	3:N:848:GLU:HG3	1.85	0.41
3:N:1166:LEU:H	3:N:1166:LEU:HD23	1.85	0.41
3:N:1284:GLU:OE1	3:N:1284:GLU:HA	2.20	0.41
3:N:1490:LYS:HE3	4:O:39:VAL:HA	2.01	0.41
5:P:110:MET:O	5:P:112:ALA:N	2.53	0.41
5:P:161:GLN:C	5:P:163:LEU:N	2.72	0.41
5:P:332:PHE:N	5:P:332:PHE:CD1	2.87	0.41
5:P:393:THR:HG22	5:P:394:ARG:N	2.34	0.41
1:A:101:LEU:O	1:A:102:LYS:HB2	2.19	0.41
1:B:101:LEU:HB2	1:B:114:PHE:CD2	2.55	0.41
2:C:200:LEU:C	2:C:202:TYR:H	2.23	0.41
2:C:431:HIS:H	2:C:434:HIS:CE1	2.38	0.41
2:C:559:LEU:O	2:C:560:MET:C	2.58	0.41
2:C:657:ASP:OD2	2:C:662:GLU:O	2.39	0.41
2:C:758:ARG:O	2:C:759:THR:HG23	2.19	0.41
2:C:1058:ASP:CG	2:C:1083:GLU:H	2.23	0.41
3:D:123:LEU:HD21	3:D:152:LEU:HD22	2.03	0.41
3:D:223:LEU:N	3:D:223:LEU:HD13	2.35	0.41
3:D:554:LEU:O	3:D:557:LEU:HB2	2.20	0.41
3:D:569:ASN:ND2	3:D:573:MET:SD	2.92	0.41
3:D:574:LEU:O	3:D:578:VAL:HG23	2.20	0.41
3:D:675:ARG:HH22	5:F:420:ASP:HB3	1.84	0.41
3:D:794:GLN:NE2	3:D:795:VAL:N	2.66	0.41
3:D:813:LEU:HG	3:D:814:ALA:H	1.85	0.41
3:D:951:ILE:C	3:D:953:ASP:H	2.23	0.41
3:D:956:ILE:HA	3:D:957:PRO:HD3	1.72	0.41
3:D:1485:GLN:NE2	4:E:80:VAL:H	2.18	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:350:LEU:HA	5:F:422:LEU:HD12	2.02	0.41
1:L:19:GLU:OE1	1:L:203:GLY:CA	2.68	0.41
2:M:336:VAL:O	2:M:337:GLY:C	2.57	0.41
2:M:345:ARG:C	2:M:347:GLY:H	2.23	0.41
2:M:550:LEU:HD12	2:M:550:LEU:O	2.21	0.41
2:M:574:ALA:O	2:M:575:GLN:CB	2.62	0.41
2:M:583:LEU:O	2:M:585:GLU:N	2.54	0.41
2:M:775:ARG:O	2:M:779:GLY:N	2.53	0.41
2:M:841:ASN:ND2	2:M:843:HIS:HD2	2.16	0.41
2:M:892:LEU:HD21	2:M:967:PHE:CE1	2.54	0.41
2:M:1067:TYR:OH	3:N:674:ARG:NH1	2.53	0.41
3:N:230:TRP:C	3:N:232:GLU:N	2.73	0.41
3:N:241:ILE:O	3:N:242:LEU:HD23	2.21	0.41
3:N:576:GLU:HA	3:N:579:ASP:OD2	2.20	0.41
3:N:806:PHE:CE1	3:N:809:PRO:O	2.72	0.41
3:N:983:LEU:HD22	3:N:987:GLU:HG2	2.01	0.41
3:N:1107:VAL:CG1	3:N:1217:ILE:HA	2.50	0.41
3:N:1113:GLY:O	3:N:1115:THR:N	2.53	0.41
5:P:77:THR:HG21	5:P:209:PHE:HD2	1.85	0.41
5:P:277:GLN:O	5:P:280:GLN:HB3	2.20	0.41
5:P:392:VAL:HG11	5:P:396:ARG:HD2	2.02	0.41
1:B:25:LEU:C	1:B:25:LEU:CD2	2.85	0.41
1:B:62:LEU:HD12	1:B:63:HIS:H	1.85	0.41
1:B:212:ASN:O	1:B:215:VAL:CG2	2.65	0.41
2:C:144:PRO:HA	2:C:163:ILE:HG23	2.01	0.41
2:C:548:PRO:HG3	2:C:842:ARG:NH1	2.35	0.41
2:C:810:ASP:HA	2:C:811:PRO:HD3	1.79	0.41
2:C:1095:LEU:HD23	3:D:582:LEU:HA	2.01	0.41
3:D:40:GLU:O	3:D:41:ARG:O	2.38	0.41
3:D:566:ILE:HD13	5:F:217:ASN:HB3	2.01	0.41
3:D:729:HIS:HD1	3:D:731:LEU:H	1.68	0.41
3:D:732:VAL:O	3:D:735:ALA:HB3	2.20	0.41
3:D:736:PHE:O	3:D:738:ALA:N	2.53	0.41
3:D:1042:ARG:HH11	3:D:1065:LEU:CD2	2.33	0.41
3:D:1131:SER:O	3:D:1132:LEU:C	2.59	0.41
3:D:1198:TYR:CD1	3:D:1460:ILE:HD13	2.56	0.41
3:D:1209:LEU:HD22	3:D:1210:SER:H	1.81	0.41
5:F:319:THR:O	5:F:329:TYR:HB2	2.20	0.41
1:L:62:LEU:HD13	1:L:63:HIS:H	1.84	0.41
1:L:94:LEU:HD11	1:L:119:ASP:HB3	2.02	0.41
2:M:124:ASP:OD1	2:M:407:LYS:HE2	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:195:LEU:O	2:M:199:VAL:HG23	2.20	0.41
2:M:437:ARG:HA	2:M:467:ILE:HG21	2.02	0.41
2:M:711:GLU:O	2:M:758:ARG:HD2	2.21	0.41
2:M:736:ASP:HB3	2:M:743:VAL:HG23	2.01	0.41
2:M:1048:THR:OG1	3:N:755:ALA:CA	2.68	0.41
2:M:1092:LEU:HD22	2:M:1099:VAL:HG11	2.03	0.41
2:M:1102:LEU:HD23	2:M:1106:ASP:C	2.41	0.41
6:M:1120:STD:H32	3:N:1086:LEU:HA	2.01	0.41
3:N:119:SER:N	3:N:123:LEU:HB2	2.35	0.41
3:N:159:ARG:HG3	3:N:159:ARG:HH11	1.84	0.41
3:N:1004:THR:OG1	3:N:1036:ARG:CD	2.68	0.41
3:N:1031:ASN:HD22	3:N:1032:PRO:CD	2.33	0.41
3:N:1372:VAL:HA	3:N:1375:MET:HG3	2.02	0.41
4:O:7:ASP:HA	4:O:10:PHE:HD1	1.84	0.41
1:A:36:LEU:C	1:A:39:PRO:HD2	2.40	0.41
1:A:57:TYR:CE1	1:A:161:ARG:HD3	2.56	0.41
1:A:65:PHE:CE1	2:C:799:ILE:HD11	2.55	0.41
1:A:115:LEU:HA	1:A:116:PRO:HD3	1.74	0.41
1:B:29:GLU:O	1:B:32:PHE:HD1	2.03	0.41
1:B:44:LEU:HD22	1:B:199:ILE:HD13	2.02	0.41
2:C:197:LEU:HD22	2:C:202:TYR:CB	2.50	0.41
2:C:299:LYS:HG3	2:C:299:LYS:O	2.20	0.41
2:C:600:ASP:O	2:C:615:TYR:HA	2.20	0.41
2:C:885:ILE:HG13	3:D:949:ILE:HG22	2.03	0.41
3:D:28:LYS:HD3	3:D:41:ARG:CD	2.44	0.41
3:D:135:LEU:HD23	3:D:135:LEU:O	2.21	0.41
3:D:162:ARG:O	3:D:164:GLY:N	2.47	0.41
3:D:171:LEU:C	3:D:171:LEU:HD12	2.41	0.41
3:D:388:HIS:ND1	3:D:390:PRO:HD3	2.36	0.41
3:D:477:LEU:O	3:D:481:MET:N	2.52	0.41
3:D:631:ILE:O	3:D:632:VAL:HG23	2.21	0.41
3:D:770:LEU:CD2	3:D:777:PRO:HB3	2.51	0.41
3:D:899:LEU:HD22	3:D:900:ILE:HG23	2.02	0.41
3:D:996:TRP:O	3:D:997:THR:C	2.58	0.41
3:D:1147:ARG:CD	3:D:1188:VAL:HG21	2.51	0.41
3:D:1262:LEU:C	3:D:1264:GLU:N	2.73	0.41
5:F:239:ALA:O	5:F:240:THR:C	2.59	0.41
5:F:265:VAL:C	5:F:267:THR:N	2.73	0.41
1:K:41:ARG:O	1:K:41:ARG:HG2	2.20	0.41
1:L:14:ARG:HH22	1:L:24:VAL:HG21	1.85	0.41
1:L:180:GLN:HB2	1:L:196:THR:CG2	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:57:GLU:HB3	2:M:58:ASP:H	1.49	0.41
2:M:78:PHE:CD1	2:M:88:LEU:HD13	2.55	0.41
2:M:302:VAL:C	2:M:305:PRO:HD2	2.41	0.41
2:M:311:PHE:HA	2:M:314:THR:HG1	1.86	0.41
2:M:338:GLU:HA	2:M:341:THR:OG1	2.21	0.41
2:M:437:ARG:HH11	2:M:437:ARG:HG3	1.85	0.41
2:M:455:LEU:O	2:M:455:LEU:HD12	2.20	0.41
2:M:569:VAL:O	2:M:569:VAL:HG13	2.20	0.41
2:M:958:THR:HG23	2:M:961:GLU:CB	2.50	0.41
2:M:1019:GLN:HG2	2:M:1058:ASP:OD2	2.20	0.41
2:M:1043:TYR:CE2	3:N:763:MET:HG3	2.54	0.41
3:N:480:GLU:O	3:N:484:PRO:HD2	2.21	0.41
3:N:547:LEU:O	3:N:550:ARG:HB2	2.20	0.41
3:N:554:LEU:HD22	3:N:570:GLU:CG	2.44	0.41
3:N:731:LEU:HD23	3:N:731:LEU:HA	1.66	0.41
3:N:736:PHE:O	3:N:738:ALA:HB2	2.21	0.41
3:N:957:PRO:CG	3:N:1007:VAL:HA	2.49	0.41
3:N:1170:ASP:O	3:N:1172:HIS:N	2.54	0.41
3:N:1223:ILE:HG22	3:N:1224:VAL:N	2.36	0.41
3:N:1231:GLU:HB3	3:N:1232:PRO:HD3	2.03	0.41
3:N:1237:THR:O	3:N:1238:MET:HB2	2.21	0.41
3:N:1381:VAL:HB	3:N:1389:LEU:O	2.20	0.41
5:P:98:GLU:O	5:P:102:LEU:HG	2.20	0.41
1:A:82:LEU:C	1:A:84:GLU:N	2.74	0.41
1:B:23:PHE:HB2	1:B:197:LEU:HD23	2.01	0.41
1:B:82:LEU:C	1:B:84:GLU:N	2.73	0.41
2:C:25:SER:O	2:C:27:ARG:N	2.54	0.41
2:C:27:ARG:O	2:C:28:ARG:C	2.58	0.41
2:C:267:TYR:OH	2:C:342:ASP:OD1	2.28	0.41
2:C:473:ARG:HB3	2:C:480:THR:OG1	2.21	0.41
2:C:835:VAL:HG23	2:C:849:VAL:O	2.21	0.41
2:C:892:LEU:HD12	2:C:892:LEU:C	2.41	0.41
2:C:923:GLU:C	2:C:925:TYR:N	2.72	0.41
2:C:1016:ILE:HG12	2:C:1017:THR:H	1.86	0.41
3:D:112:ILE:HD11	3:D:124:GLU:HG2	2.02	0.41
3:D:224:ARG:H	3:D:365:ASP:CB	2.33	0.41
3:D:482:LYS:HA	3:D:489:ARG:NH2	2.36	0.41
3:D:650:LEU:HD13	3:D:688:TRP:CZ3	2.54	0.41
3:D:868:TYR:HD2	3:D:868:TYR:HA	1.75	0.41
3:D:1290:LEU:HD23	3:D:1290:LEU:C	2.39	0.41
3:D:1372:VAL:O	3:D:1375:MET:N	2.52	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:E:63:TRP:O	4:E:64:ALA:C	2.58	0.41
5:F:78:SER:O	5:F:82:ARG:HB2	2.20	0.41
5:F:85:LEU:HD23	5:F:193:ARG:HD3	2.01	0.41
5:F:166:LEU:O	5:F:171:LYS:HB2	2.20	0.41
1:K:124:ASN:N	1:K:125:PRO:CD	2.81	0.41
1:L:75:VAL:O	1:L:77:GLU:N	2.54	0.41
2:M:291:ALA:O	2:M:292:ARG:CB	2.67	0.41
2:M:571:LEU:HD23	2:M:700:TYR:HA	2.03	0.41
2:M:958:THR:CG2	2:M:961:GLU:HB2	2.50	0.41
3:N:55:ASP:C	3:N:57:GLU:H	2.23	0.41
3:N:218:LYS:O	3:N:370:ALA:HB1	2.21	0.41
3:N:493:ARG:NH1	3:N:493:ARG:CB	2.84	0.41
3:N:601:ARG:CD	3:N:613:ARG:NH2	2.80	0.41
3:N:631:ILE:HG21	3:N:745:MET:SD	2.61	0.41
3:N:709:HIS:O	3:N:712:GLY:N	2.36	0.41
3:N:710:ARG:C	3:N:712:GLY:H	2.23	0.41
3:N:804:LEU:CD1	3:N:831:GLY:HA3	2.51	0.41
3:N:1042:ARG:HH22	3:N:1045:MET:CE	2.33	0.41
3:N:1136:LYS:HB2	3:N:1139:ASP:OD1	2.20	0.41
3:N:1198:TYR:OH	3:N:1394:VAL:HG11	2.20	0.41
5:P:134:LYS:C	5:P:135:ILE:HG12	2.39	0.41
5:P:345:ALA:O	5:P:348:SER:OG	2.39	0.41
5:P:365:GLU:HA	5:P:368:VAL:HB	2.03	0.41
1:A:80:LEU:HD12	1:A:80:LEU:HA	1.96	0.41
2:C:35:PRO:HA	2:C:36:PRO:HD3	1.99	0.41
2:C:139:GLN:OE1	2:C:391:LEU:HD22	2.20	0.41
2:C:200:LEU:O	2:C:202:TYR:N	2.54	0.41
2:C:602:GLU:C	2:C:614:ARG:HB3	2.40	0.41
2:C:647:GLN:NE2	2:C:650:ARG:NH2	2.69	0.41
2:C:801:VAL:O	2:C:802:ARG:CB	2.68	0.41
2:C:879:ARG:O	2:C:881:ASN:ND2	2.53	0.41
2:C:1004:LYS:O	2:C:1005:MET:C	2.58	0.41
2:C:1031:ARG:NH1	2:C:1031:ARG:HG2	2.36	0.41
3:D:378:ILE:N	3:D:378:ILE:CD1	2.78	0.41
3:D:572:ARG:NE	5:F:80:PRO:HG3	2.36	0.41
3:D:638:LYS:N	3:D:641:GLN:OE1	2.54	0.41
3:D:792:ILE:HG12	3:D:793:THR:N	2.31	0.41
3:D:820:GLU:C	3:D:822:ALA:H	2.23	0.41
3:D:984:THR:HG23	3:D:987:GLU:N	2.26	0.41
3:D:1096:ARG:NH1	3:D:1096:ARG:CB	2.83	0.41
5:F:129:GLU:O	5:F:132:ARG:HB2	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:55:SER:C	1:K:56:VAL:HG23	2.41	0.41
1:K:110:LYS:C	1:K:112:ARG:N	2.74	0.41
2:M:9:ILE:O	2:M:10:ARG:C	2.59	0.41
2:M:69:LEU:HB2	2:M:97:ARG:HB2	2.02	0.41
2:M:236:ILE:HD13	2:M:248:PRO:O	2.21	0.41
2:M:607:ASP:OD1	2:M:610:ARG:NH1	2.54	0.41
2:M:897:LEU:CD1	2:M:921:ALA:HB2	2.51	0.41
3:N:29:PRO:HG2	3:N:549:ASN:HD21	1.81	0.41
3:N:109:PRO:O	3:N:110:SER:C	2.59	0.41
3:N:132:TYR:CE2	3:N:154:THR:HG23	2.55	0.41
3:N:186:VAL:O	3:N:211:VAL:HB	2.21	0.41
3:N:428:LYS:NZ	3:N:451:ASP:HB3	2.34	0.41
3:N:486:ARG:HH21	3:N:489:ARG:CZ	2.30	0.41
3:N:553:ARG:O	3:N:554:LEU:C	2.58	0.41
3:N:633:VAL:O	3:N:635:PRO:HD3	2.20	0.41
3:N:637:LEU:HD21	3:N:642:CYS:HA	2.03	0.41
3:N:675:ARG:HA	3:N:678:GLU:CD	2.41	0.41
3:N:699:VAL:HG12	3:N:717:GLN:HG3	2.03	0.41
3:N:783:ARG:HH12	3:N:1029:ARG:HH21	1.69	0.41
3:N:806:PHE:C	3:N:808:THR:N	2.74	0.41
3:N:1074:SER:O	3:N:1078:ARG:HG2	2.20	0.41
1:A:104:GLU:O	1:A:105:GLY:O	2.38	0.41
1:A:198:ARG:HD3	1:A:200:TRP:CH2	2.56	0.41
1:A:206:THR:HG23	1:A:207:PRO:HD2	2.03	0.41
1:A:220:GLU:O	1:A:223:THR:HB	2.21	0.41
1:B:58:ILE:CG2	1:B:59:GLU:N	2.82	0.41
1:B:92:PRO:C	1:B:94:LEU:H	2.24	0.41
2:C:48:PHE:CD2	2:C:52:PHE:HE2	2.38	0.41
2:C:111:ASP:HB2	2:C:112:GLU:H	1.53	0.41
2:C:121:MET:HB2	2:C:127:PHE:HE2	1.85	0.41
2:C:204:GLN:CD	2:C:222:MET:HA	2.41	0.41
2:C:238:LEU:O	2:C:242:LEU:HD13	2.19	0.41
2:C:289:THR:O	2:C:291:ALA:N	2.53	0.41
2:C:602:GLU:CG	2:C:603:VAL:N	2.70	0.41
3:D:10:ILE:CD1	3:D:1434:TRP:CE2	3.04	0.41
3:D:34:TYR:CE2	5:F:261:PRO:HD3	2.56	0.41
3:D:119:SER:HB2	3:D:123:LEU:CA	2.48	0.41
3:D:684:LYS:C	3:D:686:GLU:H	2.23	0.41
3:D:770:LEU:HD21	3:D:919:PHE:HD1	1.86	0.41
3:D:775:GLY:CA	3:D:1145:TYR:HE1	2.34	0.41
3:D:1161:GLU:OE2	3:D:1164:ARG:NH1	2.54	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1264:GLU:OE2	3:D:1425:THR:CB	2.66	0.41
4:E:41:GLU:N	4:E:42:PRO:CD	2.83	0.41
4:E:51:LEU:HD12	4:E:51:LEU:C	2.40	0.41
5:F:406:ARG:O	5:F:409:LYS:HG2	2.21	0.41
1:L:44:LEU:HD23	1:L:48:ILE:CD1	2.51	0.41
2:M:146:VAL:HG12	2:M:162:ILE:CA	2.38	0.41
2:M:564:MET:CG	2:M:840:ALA:HB3	2.50	0.41
2:M:589:ARG:HD3	2:M:596:TYR:CE2	2.55	0.41
2:M:592:LEU:HA	2:M:592:LEU:HD23	1.77	0.41
2:M:607:ASP:HB2	2:M:610:ARG:H	1.86	0.41
2:M:681:GLY:C	2:M:683:ASN:N	2.73	0.41
2:M:1067:TYR:HE1	3:N:655:PRO:HG3	1.85	0.41
3:N:92:HIS:HA	3:N:519:VAL:HG23	2.03	0.41
3:N:162:ARG:CA	3:N:434:ARG:HH21	2.33	0.41
3:N:169:TYR:N	3:N:170:PRO:HD3	2.36	0.41
3:N:179:VAL:CG1	3:N:217:LYS:NZ	2.75	0.41
3:N:430:ASP:HB3	3:N:431:VAL:H	1.66	0.41
3:N:496:LEU:HD21	3:N:500:ARG:HE	1.86	0.41
3:N:504:ASP:C	3:N:506:GLY:N	2.73	0.41
3:N:757:ALA:O	3:N:758:GLU:C	2.58	0.41
3:N:788:GLY:O	3:N:792:ILE:HG22	2.21	0.41
3:N:996:TRP:CD2	3:N:1056:PRO:CG	3.04	0.41
3:N:1055:VAL:HA	3:N:1056:PRO:HD3	1.92	0.41
3:N:1094:LEU:O	3:N:1095:THR:C	2.59	0.41
4:O:92:ILE:HG22	4:O:92:ILE:O	2.21	0.41
1:A:9:PRO:HB3	1:A:25:LEU:HD23	2.03	0.41
1:A:17:GLY:C	1:A:19:GLU:N	2.74	0.41
1:A:182:GLU:O	1:A:183:ASP:C	2.59	0.41
1:A:183:ASP:HA	1:A:192:LEU:O	2.21	0.41
1:B:33:GLY:O	1:B:195:LEU:HD13	2.21	0.41
1:B:185:ARG:NH2	3:D:689:ASP:OD1	2.54	0.41
2:C:3:ILE:HD13	2:C:900:ARG:HB2	2.02	0.41
2:C:97:ARG:HA	2:C:111:ASP:HA	2.03	0.41
2:C:251:ASP:HB3	2:C:252:LYS:H	1.59	0.41
2:C:284:ARG:O	2:C:301:GLU:HG2	2.21	0.41
2:C:449:ILE:HG22	2:C:450:GLY:N	2.35	0.41
2:C:544:THR:C	2:C:546:LEU:H	2.24	0.41
2:C:547:ILE:HA	2:C:548:PRO:HD3	1.84	0.41
2:C:710:ILE:HD11	2:C:758:ARG:NE	2.36	0.41
2:C:787:ASP:CG	2:C:787:ASP:O	2.58	0.41
2:C:946:ARG:NH1	2:C:984:GLU:HB2	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:981:GLU:HA	2:C:982:PRO:HD3	1.68	0.41
2:C:1030:GLN:NE2	3:D:628:ARG:HE	2.18	0.41
2:C:1115:LEU:HD12	2:C:1115:LEU:N	2.20	0.41
3:D:34:TYR:O	3:D:36:THR:N	2.54	0.41
3:D:50:PHE:O	3:D:86:ARG:HA	2.21	0.41
3:D:50:PHE:HB2	3:D:522:PRO:HG2	2.03	0.41
3:D:74:GLU:HB2	3:D:75:ARG:HH11	1.85	0.41
3:D:119:SER:HB2	3:D:123:LEU:CB	2.47	0.41
3:D:119:SER:H	3:D:123:LEU:CB	2.25	0.41
3:D:139:GLY:CA	3:D:452:ILE:HD12	2.50	0.41
3:D:218:LYS:CD	3:D:370:ALA:HA	2.50	0.41
3:D:416:ALA:N	3:D:417:PRO:CD	2.84	0.41
3:D:572:ARG:NH1	5:F:79:ASP:OD2	2.54	0.41
3:D:606:ILE:HG13	3:D:606:ILE:H	1.60	0.41
3:D:619:LEU:O	3:D:619:LEU:HD23	2.20	0.41
3:D:699:VAL:HG12	3:D:717:GLN:HA	2.03	0.41
3:D:701:LEU:C	3:D:702:LEU:HD12	2.41	0.41
3:D:708:LEU:HD23	3:D:708:LEU:N	2.34	0.41
3:D:729:HIS:O	3:D:732:VAL:HG22	2.20	0.41
3:D:806:PHE:O	3:D:807:ALA:C	2.58	0.41
3:D:842:VAL:C	3:D:843:PHE:CD2	2.93	0.41
3:D:895:VAL:O	3:D:898:GLU:N	2.54	0.41
3:D:976:GLN:C	3:D:978:TYR:N	2.75	0.41
3:D:984:THR:H	3:D:987:GLU:HB2	1.86	0.41
3:D:1084:THR:C	3:D:1086:LEU:H	2.24	0.41
3:D:1124:GLN:HA	3:D:1125:PRO:HD3	1.74	0.41
3:D:1164:ARG:HG3	3:D:1164:ARG:HH11	1.86	0.41
3:D:1197:ARG:HD3	3:D:1396:GLU:HB3	2.03	0.41
3:D:1383:ASP:HB3	3:D:1416:ALA:H	1.85	0.41
3:D:1417:TRP:CD1	3:D:1417:TRP:C	2.93	0.41
4:E:93:TYR:HA	4:E:94:PRO:HD3	1.68	0.41
5:F:144:ILE:N	5:F:145:PRO:CD	2.84	0.41
5:F:215:GLU:HA	5:F:215:GLU:OE1	2.21	0.41
5:F:234:LYS:HD3	5:F:235:PHE:H	1.85	0.41
5:F:335:ASP:OD1	5:F:336:GLU:N	2.54	0.41
5:F:420:ASP:O	5:F:421:PHE:C	2.59	0.41
1:L:195:LEU:HD12	1:L:195:LEU:C	2.40	0.41
2:M:47:ALA:HB2	2:M:345:ARG:NH1	2.35	0.41
2:M:97:ARG:NH2	2:M:109:LYS:NZ	2.69	0.41
2:M:122:THR:CG2	2:M:123:GLU:N	2.84	0.41
2:M:252:LYS:HB3	2:M:256:TYR:CE1	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:266:ARG:O	2:M:272:ALA:CB	2.56	0.41
2:M:545:ASN:HA	2:M:905:ILE:CG2	2.50	0.41
2:M:549:PHE:HB3	2:M:552:HIS:HD2	1.81	0.41
2:M:565:GLN:C	2:M:567:GLN:H	2.24	0.41
2:M:681:GLY:C	2:M:683:ASN:H	2.23	0.41
2:M:874:LEU:O	2:M:876:VAL:N	2.53	0.41
2:M:981:GLU:HB3	2:M:982:PRO:HD2	2.02	0.41
2:M:985:GLY:O	2:M:987:ILE:HD13	2.20	0.41
2:M:1007:ALA:HB2	3:N:648:MET:CG	2.44	0.41
6:M:1120:STD:H312	3:N:1086:LEU:HB2	2.02	0.41
3:N:40:GLU:O	3:N:41:ARG:O	2.39	0.41
3:N:185:VAL:HG12	3:N:189:GLN:HB3	2.03	0.41
3:N:219:GLU:HG3	3:N:220:ARG:HG3	2.03	0.41
3:N:231:VAL:HG12	3:N:378:ILE:HG23	2.02	0.41
3:N:246:PRO:HB2	3:N:247:GLU:H	1.59	0.41
3:N:388:HIS:CB	5:P:94:LEU:HD21	2.51	0.41
3:N:401:TYR:N	3:N:402:PRO:HD3	2.35	0.41
3:N:478:LEU:CD2	3:N:1388:ARG:NH1	2.84	0.41
3:N:513:ILE:H	3:N:513:ILE:HD12	1.85	0.41
3:N:560:GLN:NE2	3:N:560:GLN:CA	2.82	0.41
3:N:574:LEU:O	3:N:578:VAL:CG2	2.68	0.41
3:N:613:ARG:O	3:N:613:ARG:HG2	2.20	0.41
3:N:618:LEU:HD23	3:N:618:LEU:HA	1.78	0.41
3:N:653:PHE:O	3:N:654:LYS:C	2.60	0.41
3:N:892:ASP:HB3	3:N:895:VAL:CB	2.48	0.41
3:N:1007:VAL:CG2	3:N:1008:PHE:N	2.83	0.41
3:N:1068:LEU:O	3:N:1069:GLU:C	2.60	0.41
3:N:1094:LEU:HD13	3:N:1260:ILE:CD1	2.51	0.41
3:N:1289:LYS:HD3	3:N:1306:PRO:HA	2.03	0.41
3:N:1323:GLN:HA	3:N:1324:PRO:HD3	1.92	0.41
3:N:1413:THR:O	3:N:1414:PRO:C	2.59	0.41
5:P:88:ILE:HG22	5:P:193:ARG:HH11	1.83	0.41
5:P:194:LEU:O	5:P:194:LEU:HD13	2.21	0.41
5:P:365:GLU:HG2	5:P:397:ILE:HG12	2.02	0.41
1:A:33:GLY:HA3	1:A:181:VAL:CG2	2.51	0.41
1:A:210:ALA:O	1:A:211:LEU:C	2.59	0.41
1:A:218:LEU:O	1:A:222:LEU:HD23	2.21	0.41
1:B:100:LEU:O	1:B:114:PHE:HA	2.21	0.41
1:B:109:VAL:C	1:B:110:LYS:HG2	2.42	0.41
2:C:3:ILE:CD1	2:C:900:ARG:HB2	2.51	0.41
2:C:233:GLU:CD	2:C:233:GLU:C	2.79	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:343:GLN:HA	2:C:343:GLN:NE2	2.36	0.41
2:C:464:LEU:HG	2:C:464:LEU:O	2.20	0.41
2:C:474:VAL:HG13	2:C:529:VAL:O	2.21	0.41
2:C:491:GLU:O	2:C:492:ASP:C	2.59	0.41
2:C:549:PHE:HB3	2:C:552:HIS:CD2	2.45	0.41
2:C:708:TYR:CE2	2:C:793:PRO:CD	3.04	0.41
2:C:775:ARG:CZ	2:C:782:ALA:HB1	2.50	0.41
3:D:26:VAL:HG11	3:D:44:LEU:HD23	2.03	0.41
3:D:78:VAL:O	3:D:79:GLU:O	2.39	0.41
3:D:178:LEU:C	3:D:180:LYS:N	2.75	0.41
3:D:481:MET:HG2	3:D:482:LYS:N	2.33	0.41
3:D:546:ARG:O	3:D:550:ARG:HG2	2.21	0.41
3:D:591:VAL:HG11	3:D:597:ASP:HA	2.03	0.41
3:D:675:ARG:O	3:D:678:GLU:CG	2.59	0.41
3:D:1296:SER:OG	3:D:1297:GLU:N	2.53	0.41
3:D:1307:LYS:HE3	3:D:1308:GLU:HG3	2.03	0.41
3:D:1320:GLU:H	3:D:1323:GLN:NE2	2.18	0.41
3:D:1323:GLN:HA	3:D:1324:PRO:HD3	1.92	0.41
3:D:1364:HIS:ND1	3:D:1366:LYS:HG2	2.36	0.41
4:E:40:LEU:HB3	4:E:72:ARG:HE	1.86	0.41
5:F:153:PRO:HB2	5:F:154:LYS:H	1.65	0.41
1:K:104:GLU:O	1:K:105:GLY:O	2.39	0.41
1:L:221:HIS:O	1:L:224:TYR:N	2.49	0.41
2:M:139:GLN:HB3	2:M:334:ARG:CD	2.51	0.41
2:M:193:LEU:CD1	2:M:197:LEU:HD11	2.50	0.41
2:M:374:ASN:ND2	2:M:377:PRO:HD3	2.36	0.41
2:M:389:SER:HB3	2:M:392:SER:HB3	2.02	0.41
2:M:398:THR:HG23	2:M:635:THR:CG2	2.48	0.41
2:M:473:ARG:HG2	2:M:473:ARG:NH1	2.34	0.41
2:M:480:THR:HG22	2:M:482:GLU:HB3	2.02	0.41
2:M:553:ASP:OD1	2:M:843:HIS:HB3	2.21	0.41
2:M:626:ARG:O	2:M:627:ARG:C	2.59	0.41
2:M:684:PHE:CE2	2:M:685:GLU:HG2	2.55	0.41
2:M:722:ILE:HD12	2:M:823:VAL:HG21	2.02	0.41
2:M:729:LEU:HB3	2:M:730:SER:H	1.40	0.41
2:M:861:LEU:O	2:M:863:ASP:O	2.39	0.41
2:M:1103:ASP:O	2:M:1104:GLU:C	2.59	0.41
3:N:131:LYS:HG3	3:N:568:ARG:HG2	2.02	0.41
3:N:210:ARG:HH11	3:N:398:ALA:CB	2.33	0.41
3:N:639:LEU:CD1	3:N:931:LEU:HD12	2.51	0.41
3:N:654:LYS:CB	3:N:655:PRO:CD	2.92	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:708:LEU:HB3	3:N:1231:GLU:HG2	2.03	0.41
3:N:1330:ILE:HG21	3:N:1335:LEU:HD12	2.03	0.41
3:N:1336:LEU:HD11	3:N:1341:PRO:HG3	2.02	0.41
5:P:88:ILE:CD1	5:P:193:ARG:HD2	2.51	0.41
1:A:153:ALA:HB2	1:A:168:ASP:N	2.36	0.40
1:B:225:PHE:CD1	1:B:225:PHE:N	2.89	0.40
2:C:173:ASP:O	2:C:184:MET:HA	2.21	0.40
2:C:473:ARG:O	2:C:480:THR:N	2.51	0.40
2:C:688:ILE:CG2	2:C:690:ILE:HD11	2.51	0.40
2:C:989:VAL:HG23	2:C:990:GLY:N	2.36	0.40
2:C:1005:MET:CE	3:D:648:MET:HB2	2.50	0.40
2:C:1058:ASP:HB2	3:D:621:LYS:HZ2	1.85	0.40
3:D:66:GLN:H	3:D:66:GLN:HG2	1.44	0.40
3:D:124:GLU:C	3:D:126:VAL:H	2.25	0.40
3:D:135:LEU:HD22	3:D:148:GLU:C	2.41	0.40
3:D:804:LEU:HG	3:D:804:LEU:O	2.21	0.40
3:D:840:LYS:HD3	3:D:841:TYR:CZ	2.56	0.40
3:D:1121:PRO:O	3:D:1122:LEU:HD12	2.21	0.40
3:D:1432:LYS:H	3:D:1432:LYS:HG3	1.69	0.40
5:F:77:THR:C	5:F:80:PRO:HD2	2.42	0.40
5:F:98:GLU:H	5:F:98:GLU:HG3	1.71	0.40
5:F:119:ILE:H	5:F:119:ILE:HG13	1.54	0.40
5:F:151:LEU:HD12	5:F:155:THR:OG1	2.20	0.40
5:F:164:LYS:HA	5:F:171:LYS:CE	2.51	0.40
1:K:52:ALA:HB3	1:K:171:PHE:CE1	2.56	0.40
1:K:110:LYS:O	1:K:112:ARG:N	2.54	0.40
1:L:77:GLU:HA	1:L:80:LEU:CB	2.50	0.40
2:M:114:PHE:CZ	5:P:283:GLY:HA3	2.56	0.40
2:M:208:ALA:CB	2:M:222:MET:SD	3.09	0.40
2:M:247:PRO:HA	2:M:248:PRO:HD3	1.72	0.40
2:M:443:THR:CB	2:M:444:PRO:CD	2.90	0.40
2:M:498:GLN:O	2:M:532:MET:HG3	2.21	0.40
2:M:523:ILE:C	2:M:523:ILE:CD1	2.84	0.40
2:M:544:THR:O	2:M:546:LEU:N	2.54	0.40
2:M:1017:THR:OG1	2:M:1019:GLN:HG3	2.21	0.40
3:N:169:TYR:OH	5:P:92:PRO:HD2	2.20	0.40
3:N:231:VAL:HB	3:N:378:ILE:HG21	2.02	0.40
3:N:426:LYS:NZ	5:P:137:GLY:O	2.46	0.40
3:N:563:PRO:CG	5:P:185:GLN:OE1	2.62	0.40
3:N:760:ARG:HD2	4:O:65:MET:HE1	2.02	0.40
3:N:791:TYR:O	3:N:794:GLN:HB2	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:859:ASP:HB2	3:N:862:ASP:HB2	2.03	0.40
3:N:1041:LEU:O	3:N:1041:LEU:HD23	2.21	0.40
3:N:1133:ARG:HG2	3:N:1134:LEU:O	2.21	0.40
3:N:1331:ASP:OD1	3:N:1333:HIS:HB2	2.21	0.40
1:A:3:ASP:O	1:A:7:LYS:HB2	2.21	0.40
1:A:40:LEU:O	1:A:43:ILE:N	2.55	0.40
1:A:76:VAL:O	1:A:80:LEU:HB2	2.22	0.40
1:A:132:LEU:HD12	1:A:132:LEU:N	2.36	0.40
1:A:137:ARG:HH11	1:A:137:ARG:HG3	1.86	0.40
1:A:210:ALA:O	1:A:212:ASN:N	2.54	0.40
1:B:76:VAL:HA	1:B:79:ILE:HG12	2.01	0.40
2:C:31:GLN:OE1	2:C:40:GLU:CD	2.59	0.40
2:C:243:ARG:HG2	2:C:243:ARG:NH1	2.35	0.40
2:C:264:PRO:HB2	2:C:289:THR:HB	2.03	0.40
2:C:398:THR:CA	2:C:633:GLN:HG3	2.51	0.40
2:C:613:VAL:HG21	2:C:615:TYR:CZ	2.57	0.40
2:C:983:ILE:CG2	3:D:946:GLY:HA2	2.52	0.40
2:C:1090:LYS:HD2	3:D:90:MET:CG	2.48	0.40
3:D:186:VAL:HG11	3:D:213:VAL:HG11	2.02	0.40
3:D:438:ASP:OD1	3:D:440:VAL:HG23	2.22	0.40
3:D:441:ARG:HG2	3:D:443:VAL:CG2	2.51	0.40
3:D:500:ARG:NH2	3:D:1388:ARG:NH1	2.66	0.40
3:D:776:GLU:HA	3:D:777:PRO:HD3	1.77	0.40
3:D:792:ILE:HG21	3:D:941:PHE:HD1	1.82	0.40
3:D:914:LEU:C	3:D:914:LEU:CD2	2.85	0.40
3:D:1109:GLU:OE1	3:D:1110:ALA:C	2.59	0.40
3:D:1385:GLY:HA3	3:D:1413:THR:HG21	2.02	0.40
4:E:30:LEU:O	4:E:35:PHE:CD1	2.74	0.40
4:E:52:GLU:HB3	4:E:55:PHE:CE2	2.56	0.40
5:F:194:LEU:HD13	5:F:194:LEU:C	2.41	0.40
1:K:117:VAL:O	1:K:118:ALA:C	2.60	0.40
1:K:207:PRO:O	1:K:208:LEU:C	2.58	0.40
1:L:15:THR:O	1:L:16:GLN:OE1	2.39	0.40
1:L:56:VAL:HG12	1:L:57:TYR:N	2.35	0.40
1:L:76:VAL:HG12	3:N:842:VAL:HG11	2.03	0.40
1:L:176:ARG:CG	1:L:200:TRP:HB2	2.51	0.40
2:M:216:GLU:H	2:M:216:GLU:CD	2.24	0.40
2:M:732:ALA:C	2:M:734:LEU:H	2.24	0.40
2:M:1000:MET:CE	2:M:1001:VAL:H	2.34	0.40
2:M:1039:ALA:O	2:M:1042:ALA:HB3	2.21	0.40
3:N:63:TYR:CD1	3:N:63:TYR:N	2.90	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:754:PHE:O	3:N:755:ALA:C	2.59	0.40
3:N:787:LEU:HD12	3:N:787:LEU:HA	1.86	0.40
3:N:984:THR:OG1	3:N:985:ASP:N	2.53	0.40
3:N:1046:GLN:NE2	3:N:1050:GLY:HA2	2.30	0.40
3:N:1069:GLU:O	3:N:1072:ILE:HG22	2.21	0.40
3:N:1238:MET:HG3	3:N:1239:ARG:HB2	2.02	0.40
3:N:1332:PRO:HB2	3:N:1421:LEU:HD21	2.03	0.40
5:P:207:LEU:HB3	5:P:208:SER:H	1.70	0.40
1:B:43:ILE:C	1:B:45:LEU:H	2.25	0.40
2:C:48:PHE:O	2:C:49:ARG:C	2.59	0.40
2:C:77:PRO:C	2:C:78:PHE:CD1	2.94	0.40
2:C:79:PRO:HD2	2:C:82:GLU:OE2	2.21	0.40
2:C:142:ARG:NH2	2:C:147:TYR:CD1	2.89	0.40
2:C:211:LEU:HD13	2:C:304:LEU:CD1	2.51	0.40
2:C:389:SER:O	2:C:392:SER:N	2.54	0.40
2:C:536:PRO:O	2:C:537:LYS:C	2.60	0.40
2:C:626:ARG:HA	2:C:629:TYR:CE1	2.57	0.40
3:D:131:LYS:O	3:D:133:ILE:HD12	2.20	0.40
3:D:159:ARG:HB2	3:D:159:ARG:CZ	2.48	0.40
3:D:168:THR:CG2	3:D:170:PRO:HD3	2.47	0.40
3:D:236:TYR:O	3:D:237:LYS:HE3	2.22	0.40
3:D:553:ARG:O	3:D:557:LEU:HB2	2.22	0.40
3:D:616:GLN:C	3:D:619:LEU:HB3	2.40	0.40
3:D:936:TYR:C	3:D:936:TYR:CD2	2.93	0.40
3:D:962:GLN:C	3:D:964:LEU:N	2.73	0.40
3:D:1389:LEU:HG	3:D:1390:LEU:H	1.87	0.40
3:D:1480:PHE:CZ	4:E:18:ARG:NH2	2.89	0.40
5:F:93:LEU:HD23	5:F:93:LEU:HA	1.93	0.40
1:K:46:SER:O	1:K:47:SER:C	2.60	0.40
1:L:26:GLU:HG2	1:L:27:PRO:N	2.36	0.40
2:M:437:ARG:HD3	2:M:467:ILE:HG22	2.03	0.40
2:M:549:PHE:CE2	2:M:887:GLU:HA	2.56	0.40
2:M:721:ARG:N	2:M:759:THR:O	2.54	0.40
2:M:774:LEU:HD13	2:M:774:LEU:O	2.21	0.40
2:M:983:ILE:O	2:M:985:GLY:N	2.55	0.40
2:M:1034:GLU:OE2	3:N:618:LEU:HB3	2.22	0.40
2:M:1107:ASN:CG	2:M:1108:PRO:HD2	2.42	0.40
3:N:56:TYR:C	3:N:80:VAL:HG21	2.41	0.40
3:N:127:LEU:HD22	3:N:134:VAL:HG21	2.04	0.40
3:N:244:GLU:HB3	3:N:366:LYS:O	2.21	0.40
3:N:609:GLY:CA	3:N:613:ARG:HB3	2.51	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:669:ASN:ND2	3:N:671:LYS:H	2.18	0.40
3:N:871:LYS:CE	3:N:873:LEU:HD21	2.51	0.40
3:N:1008:PHE:C	3:N:1010:ASN:N	2.73	0.40
3:N:1320:GLU:HG3	3:N:1323:GLN:HE21	1.85	0.40
4:O:54:LEU:CD2	4:O:58:PRO:HB2	2.50	0.40
5:P:152:ASP:O	5:P:156:VAL:CG1	2.69	0.40
1:A:34:VAL:HB	1:B:42:ARG:NH2	2.37	0.40
1:A:64:GLU:HB2	1:A:165:ILE:HG21	2.03	0.40
1:A:122:ILE:O	1:A:125:PRO:HD3	2.21	0.40
1:A:172:SER:HA	1:A:173:PRO:HD3	1.77	0.40
2:C:231:PRO:C	2:C:233:GLU:H	2.25	0.40
2:C:264:PRO:O	2:C:289:THR:OG1	2.40	0.40
2:C:586:ARG:CD	2:C:590:ASP:OD2	2.70	0.40
2:C:666:LEU:HA	2:C:666:LEU:HD12	1.89	0.40
2:C:1071:ILE:O	3:D:659:LYS:HG3	2.21	0.40
3:D:616:GLN:HA	3:D:619:LEU:CB	2.41	0.40
3:D:648:MET:HE2	3:D:747:VAL:HG12	2.03	0.40
3:D:655:PRO:HA	3:D:658:LEU:HD12	2.03	0.40
3:D:1224:VAL:O	3:D:1224:VAL:HG12	2.21	0.40
3:D:1264:GLU:O	3:D:1265:ALA:O	2.39	0.40
3:D:1407:LEU:HD12	3:D:1407:LEU:N	2.36	0.40
5:F:151:LEU:O	5:F:152:ASP:C	2.60	0.40
5:F:371:LEU:CA	5:F:375:LEU:H	2.31	0.40
5:F:386:VAL:C	5:F:388:ALA:N	2.74	0.40
1:K:43:ILE:CG2	1:K:217:ILE:HD12	2.51	0.40
2:M:176:VAL:O	2:M:176:VAL:HG23	2.21	0.40
2:M:335:THR:O	2:M:339:LEU:HG	2.21	0.40
2:M:516:ARG:HE	3:N:1068:LEU:HD13	1.76	0.40
2:M:578:VAL:HG13	2:M:671:ASN:HB3	2.03	0.40
2:M:589:ARG:HD3	2:M:596:TYR:CZ	2.56	0.40
2:M:777:ILE:C	2:M:778:PHE:HD1	2.24	0.40
2:M:963:LEU:O	2:M:967:PHE:CB	2.69	0.40
2:M:1107:ASN:HA	2:M:1108:PRO:HD3	1.88	0.40
6:M:1120:STD:O6	6:M:1120:STD:C3	2.69	0.40
3:N:26:VAL:HG11	3:N:44:LEU:CD2	2.36	0.40
3:N:65:ARG:HD2	3:N:65:ARG:HA	1.91	0.40
3:N:125:GLN:HE22	3:N:587:ARG:CZ	2.34	0.40
3:N:560:GLN:OE1	5:P:221:ILE:HG21	2.21	0.40
3:N:798:GLU:HB3	3:N:826:PRO:HG2	2.03	0.40
3:N:1175:ILE:O	3:N:1175:ILE:CG2	2.70	0.40
3:N:1258:ARG:CZ	3:N:1262:LEU:CD1	2.88	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1277:ILE:CD1	3:N:1301:LYS:HB2	2.51	0.40
5:P:332:PHE:N	5:P:332:PHE:HD1	2.19	0.40
5:P:372:ARG:O	5:P:377:ASP:O	2.39	0.40
2:C:329:GLY:CA	2:C:488:ALA:HB3	2.52	0.40
2:C:679:PHE:CE1	2:C:870:ILE:HD13	2.57	0.40
2:C:805:ARG:O	2:C:806:LEU:CD2	2.69	0.40
2:C:816:LYS:HB2	2:C:819:VAL:HG21	2.04	0.40
2:C:905:ILE:HG22	2:C:906:PHE:N	2.37	0.40
3:D:118:LEU:HD12	3:D:118:LEU:N	2.37	0.40
3:D:153:LEU:N	3:D:153:LEU:HD23	2.35	0.40
3:D:210:ARG:CD	3:D:398:ALA:HB3	2.51	0.40
3:D:217:LYS:HE3	3:D:388:HIS:O	2.22	0.40
3:D:233:LYS:HZ3	3:D:237:LYS:HD2	1.86	0.40
3:D:376:GLU:HB3	3:D:383:GLY:O	2.22	0.40
3:D:1429:LEU:O	3:D:1429:LEU:CD2	2.69	0.40
3:D:1434:TRP:CD1	3:D:1434:TRP:C	2.92	0.40
3:D:1438:ALA:C	3:D:1440:PHE:N	2.75	0.40
4:E:66:LYS:HD3	4:E:66:LYS:HA	1.95	0.40
5:F:221:ILE:O	5:F:223:ALA:N	2.54	0.40
5:F:291:ILE:HD13	5:F:304:VAL:HG13	2.00	0.40
1:L:13:VAL:HG22	1:L:23:PHE:HD1	1.86	0.40
1:L:165:ILE:HA	1:L:166:PRO:HD3	1.87	0.40
1:L:197:LEU:HD21	1:L:199:ILE:CG1	2.49	0.40
2:M:437:ARG:HH22	2:M:491:GLU:CD	2.24	0.40
2:M:585:GLU:HB2	2:M:586:ARG:H	1.71	0.40
2:M:736:ASP:C	2:M:738:ASP:N	2.74	0.40
2:M:1054:THR:HB	2:M:1055:LEU:H	1.38	0.40
2:M:1096:ALA:O	2:M:1097:LEU:O	2.40	0.40
3:N:33:ASN:O	3:N:35:ARG:N	2.54	0.40
3:N:39:PRO:HB3	3:N:45:PHE:O	2.22	0.40
3:N:455:ARG:CB	3:N:460:ALA:HB2	2.52	0.40
3:N:551:ASN:O	3:N:555:LYS:HG3	2.22	0.40
3:N:558:LEU:HD13	5:P:145:PRO:C	2.41	0.40
3:N:568:ARG:O	3:N:569:ASN:C	2.58	0.40
3:N:602:SER:O	3:N:606:ILE:HG13	2.22	0.40
3:N:634:GLY:O	3:N:637:LEU:HB2	2.21	0.40
3:N:836:VAL:O	3:N:838:ARG:N	2.55	0.40
3:N:871:LYS:HB3	3:N:873:LEU:HG	2.04	0.40
3:N:908:LYS:HB2	3:N:908:LYS:HE3	1.78	0.40
3:N:1044:LEU:HD23	3:N:1044:LEU:HA	1.89	0.40
3:N:1356:TYR:O	3:N:1361:VAL:HB	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:O:26:ARG:O	4:O:26:ARG:HD2	2.21	0.40
4:O:41:GLU:N	4:O:42:PRO:CD	2.85	0.40
5:P:110:MET:C	5:P:112:ALA:N	2.72	0.40

There are no symmetry-related clashes.

5.3 Torsion angles [\(i\)](#)

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

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	227/315 (72%)	163 (72%)	48 (21%)	16 (7%)	1	6
1	B	227/315 (72%)	167 (74%)	46 (20%)	14 (6%)	1	8
1	K	227/315 (72%)	154 (68%)	45 (20%)	28 (12%)	0	1
1	L	227/315 (72%)	169 (74%)	41 (18%)	17 (8%)	1	5
2	C	1117/1119 (100%)	768 (69%)	229 (20%)	120 (11%)	0	2
2	M	1117/1119 (100%)	758 (68%)	222 (20%)	137 (12%)	0	1
3	D	1388/1524 (91%)	940 (68%)	286 (21%)	162 (12%)	0	1
3	N	1388/1524 (91%)	916 (66%)	317 (23%)	155 (11%)	0	2
4	E	93/99 (94%)	66 (71%)	17 (18%)	10 (11%)	0	2
4	O	93/99 (94%)	56 (60%)	25 (27%)	12 (13%)	0	1
5	F	341/423 (81%)	239 (70%)	57 (17%)	45 (13%)	0	1
5	P	341/423 (81%)	250 (73%)	54 (16%)	37 (11%)	0	2
All	All	6786/7590 (89%)	4646 (68%)	1387 (20%)	753 (11%)	0	2

All (753) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	118	ALA

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Mol	Chain	Res	Type
1	A	160	ASP
1	A	188	GLN
1	B	3	ASP
1	B	96	THR
1	B	160	ASP
1	B	204	SER
2	C	7	GLY
2	C	10	ARG
2	C	18	LEU
2	C	23	VAL
2	C	24	GLU
2	C	111	ASP
2	C	223	ASP
2	C	231	PRO
2	C	244	PRO
2	C	246	ASP
2	C	251	ASP
2	C	253	ALA
2	C	261	ILE
2	C	369	PRO
2	C	377	PRO
2	C	419	THR
2	C	423	ALA
2	C	425	PHE
2	C	462	ASP
2	C	550	LEU
2	C	600	ASP
2	C	627	ARG
2	C	698	ASP
2	C	727	PRO
2	C	735	ARG
2	C	738	ASP
2	C	762	LYS
2	C	767	PRO
2	C	813	VAL
2	C	864	GLY
2	C	904	PRO
2	C	905	ILE
2	C	984	GLU
2	C	1004	LYS
2	C	1045	ALA
2	C	1056	LYS

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Mol	Chain	Res	Type
2	C	1096	ALA
2	C	1113	GLU
3	D	41	ARG
3	D	49	ILE
3	D	55	ASP
3	D	69	GLU
3	D	82	LYS
3	D	110	SER
3	D	120	ALA
3	D	128	TYR
3	D	133	ILE
3	D	136	ASP
3	D	138	LYS
3	D	140	ALA
3	D	141	ILE
3	D	149	LYS
3	D	199	LEU
3	D	202	VAL
3	D	208	PRO
3	D	209	ARG
3	D	238	PRO
3	D	247	GLU
3	D	373	PRO
3	D	385	VAL
3	D	416	ALA
3	D	417	PRO
3	D	420	VAL
3	D	431	VAL
3	D	504	ASP
3	D	526	PRO
3	D	554	LEU
3	D	594	PRO
3	D	601	ARG
3	D	611	GLN
3	D	652	LEU
3	D	670	VAL
3	D	694	VAL
3	D	705	ALA
3	D	765	SER
3	D	766	ALA
3	D	783	ARG
3	D	807	ALA

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Mol	Chain	Res	Type
3	D	1028	ALA
3	D	1066	THR
3	D	1111	ASP
3	D	1114	THR
3	D	1131	SER
3	D	1152	GLU
3	D	1197	ARG
3	D	1207	TYR
3	D	1237	THR
3	D	1243	THR
3	D	1269	LYS
3	D	1287	GLU
3	D	1389	LEU
3	D	1390	LEU
3	D	1410	GLU
3	D	1430	SER
3	D	1451	ALA
3	D	1452	ILE
3	D	1504	GLU
4	E	41	GLU
4	E	42	PRO
4	E	46	PRO
5	F	75	ILE
5	F	76	SER
5	F	77	THR
5	F	97	GLU
5	F	138	SER
5	F	147	LEU
5	F	153	PRO
5	F	232	ARG
5	F	297	PRO
5	F	341	PRO
5	F	385	GLU
5	F	390	PHE
1	K	59	GLU
1	K	109	VAL
1	K	118	ALA
1	K	188	GLN
1	L	3	ASP
1	L	116	PRO
1	L	158	ILE
1	L	171	PHE

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Mol	Chain	Res	Type
2	M	12	VAL
2	M	57	GLU
2	M	80	GLN
2	M	90	TYR
2	M	111	ASP
2	M	119	PRO
2	M	152	PRO
2	M	153	ALA
2	M	170	PRO
2	M	178	PRO
2	M	223	ASP
2	M	231	PRO
2	M	244	PRO
2	M	246	ASP
2	M	251	ASP
2	M	253	ALA
2	M	261	ILE
2	M	264	PRO
2	M	265	ARG
2	M	292	ARG
2	M	419	THR
2	M	422	ARG
2	M	456	ALA
2	M	462	ASP
2	M	486	MET
2	M	500	ASN
2	M	548	PRO
2	M	574	ALA
2	M	584	GLU
2	M	586	ARG
2	M	607	ASP
2	M	626	ARG
2	M	680	ASP
2	M	684	PHE
2	M	727	PRO
2	M	762	LYS
2	M	781	LYS
2	M	784	ASP
2	M	807	ARG
2	M	1016	ILE
2	M	1045	ALA
2	M	1059	ASP

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Mol	Chain	Res	Type
2	M	1060	ILE
2	M	1097	LEU
2	M	1106	ASP
3	N	34	TYR
3	N	41	ARG
3	N	77	GLY
3	N	82	LYS
3	N	119	SER
3	N	120	ALA
3	N	130	SER
3	N	131	LYS
3	N	141	ILE
3	N	146	PRO
3	N	149	LYS
3	N	198	ARG
3	N	208	PRO
3	N	209	ARG
3	N	217	LYS
3	N	246	PRO
3	N	406	ASP
3	N	410	SER
3	N	417	PRO
3	N	430	ASP
3	N	504	ASP
3	N	594	PRO
3	N	629	SER
3	N	639	LEU
3	N	666	ILE
3	N	737	ASN
3	N	774	SER
3	N	807	ALA
3	N	822	ALA
3	N	824	ASN
3	N	832	ARG
3	N	891	GLU
3	N	922	LEU
3	N	949	ILE
3	N	1028	ALA
3	N	1049	SER
3	N	1161	GLU
3	N	1167	SER
3	N	1182	GLU

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Mol	Chain	Res	Type
3	N	1208	ASP
3	N	1215	VAL
3	N	1221	VAL
3	N	1237	THR
3	N	1239	ARG
3	N	1265	ALA
3	N	1287	GLU
3	N	1307	LYS
3	N	1308	GLU
3	N	1384	PRO
3	N	1388	ARG
4	O	17	TYR
4	O	42	PRO
4	O	82	GLU
5	P	76	SER
5	P	135	ILE
5	P	145	PRO
5	P	190	ALA
5	P	203	THR
5	P	232	ARG
5	P	236	SER
5	P	282	LEU
5	P	297	PRO
5	P	363	GLU
5	P	364	ARG
5	P	421	PHE
1	A	59	GLU
1	A	93	SER
1	A	105	GLY
1	A	116	PRO
1	A	183	ASP
1	A	187	GLY
1	B	35	THR
2	C	53	PRO
2	C	74	GLY
2	C	288	ARG
2	C	450	GLY
2	C	541	SER
2	C	551	GLU
2	C	570	PRO
2	C	598	GLU
2	C	608	GLY

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Mol	Chain	Res	Type
2	C	644	VAL
2	C	692	GLU
2	C	783	ARG
2	C	807	ARG
2	C	874	LEU
2	C	922	PHE
2	C	977	GLY
2	C	1012	PRO
2	C	1016	ILE
2	C	1080	SER
3	D	37	LEU
3	D	78	VAL
3	D	84	ILE
3	D	125	GLN
3	D	129	PHE
3	D	137	PRO
3	D	178	LEU
3	D	179	VAL
3	D	187	LYS
3	D	201	GLY
3	D	220	ARG
3	D	221	ALA
3	D	234	GLU
3	D	424	GLY
3	D	440	VAL
3	D	450	TYR
3	D	453	ASP
3	D	560	GLN
3	D	602	SER
3	D	647	ARG
3	D	826	PRO
3	D	870	GLY
3	D	1049	SER
3	D	1065	LEU
3	D	1082	ALA
3	D	1104	GLU
3	D	1115	THR
3	D	1127	GLU
3	D	1132	LEU
3	D	1196	THR
3	D	1233	GLY
3	D	1234	THR

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Mol	Chain	Res	Type
3	D	1265	ALA
3	D	1274	ILE
3	D	1307	LYS
3	D	1315	ASP
3	D	1443	THR
3	D	1470	ARG
4	E	58	PRO
4	E	71	GLY
4	E	82	GLU
5	F	148	LYS
5	F	202	TYR
5	F	204	GLY
5	F	288	TYR
5	F	295	MET
5	F	329	TYR
5	F	330	GLY
5	F	351	SER
5	F	363	GLU
5	F	374	GLY
5	F	375	LEU
5	F	386	VAL
5	F	399	GLN
1	K	4	SER
1	K	11	PHE
1	K	30	ARG
1	K	47	SER
1	K	92	PRO
1	K	105	GLY
1	K	138	LEU
1	K	162	ILE
1	K	176	ARG
1	K	215	VAL
1	K	226	SER
1	L	4	SER
1	L	11	PHE
1	L	214	ALA
1	L	224	TYR
2	M	7	GLY
2	M	29	ALA
2	M	87	ASP
2	M	105	THR
2	M	113	VAL

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Mol	Chain	Res	Type
2	M	129	ILE
2	M	187	ASN
2	M	224	GLU
2	M	267	TYR
2	M	326	ASP
2	M	328	LEU
2	M	369	PRO
2	M	415	PRO
2	M	443	THR
2	M	471	TYR
2	M	498	GLN
2	M	537	LYS
2	M	545	ASN
2	M	556	ASN
2	M	575	GLN
2	M	616	GLU
2	M	627	ARG
2	M	652	GLY
2	M	699	PHE
2	M	730	SER
2	M	745	ILE
2	M	763	GLY
2	M	765	SER
2	M	767	PRO
2	M	783	ARG
2	M	813	VAL
2	M	857	ASP
2	M	875	GLY
2	M	893	ALA
2	M	894	GLY
2	M	905	ILE
2	M	984	GLU
2	M	1004	LYS
2	M	1057	SER
2	M	1115	LEU
3	N	24	GLY
3	N	55	ASP
3	N	56	TYR
3	N	58	CYS
3	N	62	LYS
3	N	67	ARG
3	N	98	PRO

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Mol	Chain	Res	Type
3	N	137	PRO
3	N	238	PRO
3	N	241	ILE
3	N	369	ALA
3	N	415	VAL
3	N	424	GLY
3	N	449	SER
3	N	463	GLN
3	N	480	GLU
3	N	484	PRO
3	N	506	GLY
3	N	564	GLU
3	N	569	ASN
3	N	571	LYS
3	N	582	LEU
3	N	622	ARG
3	N	816	HIS
3	N	836	VAL
3	N	864	VAL
3	N	989	TYR
3	N	1064	GLY
3	N	1111	ASP
3	N	1114	THR
3	N	1125	PRO
3	N	1126	ASP
3	N	1129	THR
3	N	1156	LEU
3	N	1236	LEU
3	N	1389	LEU
3	N	1390	LEU
3	N	1394	VAL
3	N	1423	GLY
3	N	1439	SER
3	N	1461	GLY
3	N	1475	GLY
4	O	44	GLU
5	P	77	THR
5	P	115	LYS
5	P	148	LYS
5	P	168	LYS
5	P	334	PRO
5	P	346	THR

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Mol	Chain	Res	Type
5	P	347	GLN
5	P	376	ILE
5	P	416	ARG
1	A	102	LYS
1	B	30	ARG
1	B	58	ILE
1	B	118	ALA
2	C	27	ARG
2	C	31	GLN
2	C	43	GLY
2	C	48	PHE
2	C	57	GLU
2	C	152	PRO
2	C	186	VAL
2	C	188	LYS
2	C	189	ARG
2	C	224	GLU
2	C	228	ALA
2	C	273	GLY
2	C	292	ARG
2	C	363	SER
2	C	467	ILE
2	C	492	ASP
2	C	518	LYS
2	C	555	ALA
2	C	802	ARG
2	C	937	ASP
2	C	957	LYS
2	C	1020	PRO
2	C	1055	LEU
2	C	1057	SER
2	C	1071	ILE
3	D	79	GLU
3	D	119	SER
3	D	174	GLY
3	D	233	LYS
3	D	237	LYS
3	D	522	PRO
3	D	580	ALA
3	D	610	LYS
3	D	671	LYS
3	D	735	ALA

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Mol	Chain	Res	Type
3	D	799	LYS
3	D	836	VAL
3	D	893	GLU
3	D	997	THR
3	D	1136	LYS
3	D	1161	GLU
3	D	1198	TYR
3	D	1263	PHE
3	D	1341	PRO
3	D	1349	VAL
3	D	1475	GLY
4	E	87	LYS
5	F	241	TRP
5	F	264	MET
5	F	286	PRO
5	F	298	GLY
5	F	395	GLU
5	F	401	GLU
5	F	414	ARG
1	K	37	GLY
1	K	46	SER
1	K	111	ALA
1	K	214	ALA
1	L	18	ARG
1	L	59	GLU
2	M	10	ARG
2	M	190	LYS
2	M	202	TYR
2	M	273	GLY
2	M	367	LEU
2	M	458	TYR
2	M	518	LYS
2	M	585	GLU
2	M	693	GLU
2	M	735	ARG
2	M	814	GLU
2	M	856	GLU
2	M	876	VAL
2	M	1079	PRO
2	M	1108	PRO
3	N	68	PHE
3	N	83	SER

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Mol	Chain	Res	Type
3	N	85	VAL
3	N	124	GLU
3	N	135	LEU
3	N	240	GLU
3	N	368	VAL
3	N	387	LEU
3	N	451	ASP
3	N	706	PRO
3	N	784	ASP
3	N	1029	ARG
3	N	1058	ARG
3	N	1066	THR
3	N	1139	ASP
3	N	1155	VAL
3	N	1164	ARG
3	N	1197	ARG
3	N	1306	PRO
3	N	1321	ALA
3	N	1366	LYS
3	N	1435	LEU
3	N	1436	SER
4	O	16	LYS
4	O	41	GLU
4	O	46	PRO
4	O	64	ALA
5	P	110	MET
5	P	147	LEU
5	P	191	ASN
5	P	233	PHE
5	P	286	PRO
5	P	324	GLU
5	P	419	ARG
1	A	106	PRO
1	A	157	GLY
1	B	116	PRO
2	C	28	ARG
2	C	52	PHE
2	C	179	ASN
2	C	232	GLU
2	C	241	LEU
2	C	267	TYR
2	C	290	LEU

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Mol	Chain	Res	Type
2	C	293	PHE
2	C	314	THR
2	C	548	PRO
2	C	680	ASP
2	C	684	PHE
2	C	1007	ALA
2	C	1046	ALA
2	C	1062	GLY
2	C	1070	ILE
3	D	121	THR
3	D	135	LEU
3	D	146	PRO
3	D	177	ALA
3	D	483	HIS
3	D	509	PRO
3	D	587	ARG
3	D	635	PRO
3	D	808	THR
3	D	902	LEU
3	D	1040	GLY
3	D	1058	ARG
3	D	1059	SER
3	D	1385	GLY
4	E	44	GLU
5	F	190	ALA
5	F	327	SER
5	F	376	ILE
5	F	416	ARG
5	F	421	PHE
1	K	3	ASP
1	K	45	LEU
1	K	54	THR
1	K	144	VAL
2	M	53	PRO
2	M	161	SER
2	M	314	THR
2	M	780	GLU
2	M	810	ASP
2	M	916	GLU
2	M	925	TYR
2	M	929	ARG
2	M	998	TYR

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Mol	Chain	Res	Type
2	M	1056	LYS
2	M	1113	GLU
3	N	162	ARG
3	N	234	GLU
3	N	370	ALA
3	N	416	ALA
3	N	487	ALA
3	N	692	GLU
3	N	724	GLN
3	N	869	MET
3	N	1341	PRO
3	N	1351	GLU
4	O	72	ARG
5	P	165	SER
5	P	301	ALA
5	P	341	PRO
1	A	124	ASN
2	C	14	PRO
2	C	178	PRO
2	C	480	THR
2	C	502	PRO
2	C	545	ASN
2	C	780	GLU
2	C	859	PRO
2	C	1112	PHE
3	D	442	ASN
3	D	451	ASP
3	D	486	ARG
3	D	523	ASP
3	D	830	ALA
3	D	1016	PRO
3	D	1240	THR
3	D	1261	GLU
3	D	1392	GLY
3	D	1439	SER
5	F	263	HIS
5	F	367	MET
5	F	392	VAL
5	F	419	ARG
1	K	207	PRO
1	L	172	SER
1	L	173	PRO

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Mol	Chain	Res	Type
2	M	9	ILE
2	M	52	PHE
2	M	76	PRO
2	M	164	PRO
2	M	337	GLY
2	M	368	THR
2	M	700	TYR
2	M	801	VAL
2	M	821	GLU
2	M	1018	GLN
2	M	1088	LEU
3	N	29	PRO
3	N	44	LEU
3	N	177	ALA
3	N	373	PRO
3	N	471	GLU
3	N	483	HIS
3	N	565	ILE
3	N	586	ARG
3	N	754	PHE
3	N	808	THR
3	N	1009	LYS
3	N	1285	GLU
3	N	1350	GLU
3	N	1408	ILE
3	N	1459	LEU
4	O	4	PRO
5	P	151	LEU
5	P	177	ALA
5	P	235	PHE
5	P	323	ASP
1	A	125	PRO
1	A	176	ARG
1	B	39	PRO
1	B	106	PRO
2	C	155	PRO
2	C	335	THR
2	C	490	GLU
2	C	835	VAL
2	C	861	LEU
2	C	1108	PRO
3	D	44	LEU

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Mol	Chain	Res	Type
3	D	80	VAL
3	D	530	VAL
3	D	693	GLU
3	D	1019	PRO
3	D	1044	LEU
3	D	1267	ARG
3	D	1350	GLU
4	E	4	PRO
5	F	119	ILE
5	F	372	ARG
1	K	70	GLY
1	K	228	PRO
1	L	188	GLN
1	L	202	ASP
2	M	60	GLY
2	M	241	LEU
2	M	325	ILE
2	M	739	GLU
2	M	986	PRO
3	N	568	ARG
3	N	695	ILE
3	N	984	THR
3	N	1048	PRO
3	N	1414	PRO
4	O	33	HIS
2	C	201	GLY
2	C	855	VAL
2	C	1114	GLY
3	D	668	PRO
3	D	885	ILE
3	D	992	ILE
3	D	1280	VAL
5	F	145	PRO
1	K	17	GLY
1	L	76	VAL
2	M	42	VAL
2	M	452	ILE
2	M	812	GLY
3	N	1050	GLY
3	N	1452	ILE
5	P	204	GLY
1	A	9	PRO

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Mol	Chain	Res	Type
1	B	79	ILE
2	C	17	PRO
3	D	1155	VAL
2	M	15	LEU
2	M	465	GLY
3	N	530	VAL
4	O	22	VAL
5	P	368	VAL
1	B	9	PRO
3	D	981	GLY
4	E	81	PRO
5	F	397	ILE
1	L	215	VAL
2	M	182	VAL
2	M	779	GLY
3	N	226	PRO
3	N	776	GLU
3	N	1277	ILE
1	B	75	VAL
2	C	263	ASP
2	C	444	PRO
2	C	812	GLY
3	D	108	VAL
3	D	433	GLY
3	D	1277	ILE
2	M	180	GLY
2	M	186	VAL
2	M	416	GLY
3	N	1481	VAL
2	C	769	PRO
3	D	395	VAL
3	D	1067	VAL
3	D	1414	PRO
1	K	205	VAL
1	L	162	ILE
3	N	26	VAL
3	N	654	LYS
3	N	1019	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	202/273 (74%)	171 (85%)	31 (15%)	2	13
1	B	202/273 (74%)	178 (88%)	24 (12%)	5	22
1	K	202/273 (74%)	172 (85%)	30 (15%)	3	14
1	L	202/273 (74%)	175 (87%)	27 (13%)	4	17
2	C	941/941 (100%)	829 (88%)	112 (12%)	5	22
2	M	941/941 (100%)	816 (87%)	125 (13%)	4	17
3	D	1170/1279 (92%)	972 (83%)	198 (17%)	2	11
3	N	1170/1279 (92%)	1000 (86%)	170 (14%)	3	15
4	E	83/87 (95%)	71 (86%)	12 (14%)	3	15
4	O	83/87 (95%)	72 (87%)	11 (13%)	4	17
5	F	300/370 (81%)	261 (87%)	39 (13%)	4	19
5	P	300/370 (81%)	281 (94%)	19 (6%)	18	51
All	All	5796/6446 (90%)	4998 (86%)	798 (14%)	3	17

All (798) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	5	LYS
1	A	18	ARG
1	A	19	GLU
1	A	20	TYR
1	A	26	GLU
1	A	51	THR
1	A	62	LEU
1	A	73	GLU
1	A	84	GLU
1	A	88	ARG
1	A	92	PRO
1	A	95	GLN
1	A	96	THR
1	A	112	ARG

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Mol	Chain	Res	Type
1	A	114	PHE
1	A	119	ASP
1	A	127	LEU
1	A	134	GLU
1	A	143	ARG
1	A	145	ASP
1	A	146	ARG
1	A	160	ASP
1	A	168	ASP
1	A	179	PHE
1	A	183	ASP
1	A	185	ARG
1	A	193	ASP
1	A	196	THR
1	A	197	LEU
1	A	219	ARG
1	A	227	ASN
1	B	2	LEU
1	B	3	ASP
1	B	5	LYS
1	B	19	GLU
1	B	20	TYR
1	B	29	GLU
1	B	38	ASN
1	B	62	LEU
1	B	112	ARG
1	B	115	LEU
1	B	119	ASP
1	B	124	ASN
1	B	140	MET
1	B	146	ARG
1	B	156	HIS
1	B	160	ASP
1	B	170	VAL
1	B	188	GLN
1	B	189	ARG
1	B	196	THR
1	B	208	LEU
1	B	213	GLN
1	B	219	ARG
1	B	225	PHE
2	C	5	ARG

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Mol	Chain	Res	Type
2	C	9	ILE
2	C	26	TYR
2	C	41	ASN
2	C	48	PHE
2	C	49	ARG
2	C	52	PHE
2	C	71	TYR
2	C	81	ASP
2	C	88	LEU
2	C	95	TYR
2	C	111	ASP
2	C	115	LEU
2	C	124	ASP
2	C	157	ARG
2	C	158	TYR
2	C	168	ARG
2	C	178	PRO
2	C	185	LYS
2	C	188	LYS
2	C	197	LEU
2	C	198	ARG
2	C	202	TYR
2	C	203	ASP
2	C	209	ARG
2	C	221	LEU
2	C	230	ARG
2	C	233	GLU
2	C	251	ASP
2	C	256	TYR
2	C	263	ASP
2	C	266	ARG
2	C	290	LEU
2	C	297	GLU
2	C	359	MET
2	C	376	ARG
2	C	383	ARG
2	C	407	LYS
2	C	413	LEU
2	C	420	ARG
2	C	421	GLU
2	C	425	PHE
2	C	426	ASP

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Mol	Chain	Res	Type
2	C	427	VAL
2	C	433	THR
2	C	455	LEU
2	C	469	THR
2	C	472	ARG
2	C	475	VAL
2	C	503	LEU
2	C	507	ARG
2	C	514	VAL
2	C	523	ILE
2	C	526	PRO
2	C	527	GLU
2	C	551	GLU
2	C	562	SER
2	C	564	MET
2	C	578	VAL
2	C	589	ARG
2	C	607	ASP
2	C	609	ASN
2	C	617	ASP
2	C	633	GLN
2	C	637	LEU
2	C	640	ARG
2	C	650	ARG
2	C	671	ASN
2	C	672	VAL
2	C	679	PHE
2	C	685	GLU
2	C	689	VAL
2	C	699	PHE
2	C	701	THR
2	C	713	ARG
2	C	723	THR
2	C	725	ASP
2	C	727	PRO
2	C	737	LEU
2	C	766	GLU
2	C	799	ILE
2	C	826	TYR
2	C	831	ARG
2	C	841	ASN
2	C	859	PRO

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Mol	Chain	Res	Type
2	C	861	LEU
2	C	863	ASP
2	C	865	THR
2	C	881	ASN
2	C	888	THR
2	C	892	LEU
2	C	900	ARG
2	C	904	PRO
2	C	916	GLU
2	C	928	LYS
2	C	937	ASP
2	C	963	LEU
2	C	966	LEU
2	C	975	TYR
2	C	978	ARG
2	C	979	THR
2	C	1008	ARG
2	C	1015	LEU
2	C	1016	ILE
2	C	1036	GLU
2	C	1051	GLU
2	C	1052	MET
2	C	1054	THR
2	C	1081	VAL
2	C	1092	LEU
2	C	1103	ASP
2	C	1115	LEU
3	D	15	PRO
3	D	25	GLU
3	D	57	GLU
3	D	66	GLN
3	D	73	CYS
3	D	89	ARG
3	D	102	ILE
3	D	112	ILE
3	D	115	LEU
3	D	122	GLU
3	D	123	LEU
3	D	138	LYS
3	D	141	ILE
3	D	142	LEU
3	D	143	ASN

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Mol	Chain	Res	Type
3	D	145	VAL
3	D	149	LYS
3	D	152	LEU
3	D	153	LEU
3	D	155	ASP
3	D	171	LEU
3	D	179	VAL
3	D	189	GLN
3	D	199	LEU
3	D	200	ASP
3	D	208	PRO
3	D	209	ARG
3	D	217	LYS
3	D	218	LYS
3	D	223	LEU
3	D	224	ARG
3	D	225	LEU
3	D	236	TYR
3	D	237	LYS
3	D	245	LEU
3	D	249	TYR
3	D	250	LEU
3	D	365	ASP
3	D	366	LYS
3	D	367	ILE
3	D	376	GLU
3	D	377	VAL
3	D	378	ILE
3	D	387	LEU
3	D	388	HIS
3	D	408	GLU
3	D	423	ASP
3	D	432	TYR
3	D	438	ASP
3	D	445	ARG
3	D	447	VAL
3	D	450	TYR
3	D	453	ASP
3	D	456	MET
3	D	486	ARG
3	D	511	TRP
3	D	513	ILE

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Mol	Chain	Res	Type
3	D	528	VAL
3	D	535	PHE
3	D	539	ASP
3	D	549	ASN
3	D	554	LEU
3	D	565	ILE
3	D	569	ASN
3	D	571	LYS
3	D	576	GLU
3	D	579	ASP
3	D	583	ASP
3	D	591	VAL
3	D	592	THR
3	D	594	PRO
3	D	597	ASP
3	D	604	THR
3	D	605	ASP
3	D	606	ILE
3	D	611	GLN
3	D	619	LEU
3	D	621	LYS
3	D	625	TYR
3	D	635	PRO
3	D	637	LEU
3	D	641	GLN
3	D	642	CYS
3	D	644	LEU
3	D	651	GLU
3	D	653	PHE
3	D	655	PRO
3	D	661	MET
3	D	662	GLU
3	D	676	MET
3	D	688	TRP
3	D	695	ILE
3	D	701	LEU
3	D	703	ASN
3	D	710	ARG
3	D	716	PHE
3	D	717	GLN
3	D	749	VAL
3	D	764	LEU

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Mol	Chain	Res	Type
3	D	778	LEU
3	D	781	PRO
3	D	783	ARG
3	D	792	ILE
3	D	794	GLN
3	D	796	ARG
3	D	804	LEU
3	D	808	THR
3	D	813	LEU
3	D	828	LYS
3	D	829	VAL
3	D	834	THR
3	D	858	VAL
3	D	859	ASP
3	D	861	GLN
3	D	863	VAL
3	D	867	ARG
3	D	868	TYR
3	D	875	THR
3	D	880	ILE
3	D	890	VAL
3	D	892	ASP
3	D	897	TRP
3	D	899	LEU
3	D	902	LEU
3	D	911	LEU
3	D	919	PHE
3	D	920	LEU
3	D	936	TYR
3	D	940	THR
3	D	947	ILE
3	D	951	ILE
3	D	956	ILE
3	D	969	ARG
3	D	972	LEU
3	D	985	ASP
3	D	988	ARG
3	D	1001	GLU
3	D	1020	LEU
3	D	1039	CYS
3	D	1042	ARG
3	D	1044	LEU

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Mol	Chain	Res	Type
3	D	1046	GLN
3	D	1052	THR
3	D	1055	VAL
3	D	1062	ARG
3	D	1068	LEU
3	D	1074	SER
3	D	1093	TYR
3	D	1109	GLU
3	D	1130	ARG
3	D	1134	LEU
3	D	1136	LYS
3	D	1137	ARG
3	D	1151	ARG
3	D	1152	GLU
3	D	1161	GLU
3	D	1164	ARG
3	D	1167	SER
3	D	1172	HIS
3	D	1182	GLU
3	D	1189	ARG
3	D	1191	PRO
3	D	1195	GLN
3	D	1197	ARG
3	D	1204	CYS
3	D	1207	TYR
3	D	1211	MET
3	D	1213	ARG
3	D	1223	ILE
3	D	1231	GLU
3	D	1234	THR
3	D	1251	ASP
3	D	1274	ILE
3	D	1285	GLU
3	D	1304	LYS
3	D	1307	LYS
3	D	1311	LEU
3	D	1314	LYS
3	D	1315	ASP
3	D	1323	GLN
3	D	1346	ARG
3	D	1350	GLU
3	D	1353	GLN

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Mol	Chain	Res	Type
3	D	1359	GLN
3	D	1363	LEU
3	D	1376	MET
3	D	1389	LEU
3	D	1396	GLU
3	D	1403	LEU
3	D	1410	GLU
3	D	1432	LYS
3	D	1434	TRP
3	D	1441	GLN
3	D	1442	ASN
3	D	1447	LEU
3	D	1483	PHE
3	D	1487	VAL
3	D	1492	LEU
4	E	10	PHE
4	E	13	VAL
4	E	23	VAL
4	E	28	GLN
4	E	35	PHE
4	E	40	LEU
4	E	46	PRO
4	E	59	ASN
4	E	61	GLU
4	E	77	GLU
4	E	78	ASN
4	E	81	PRO
5	F	76	SER
5	F	97	GLU
5	F	125	ASP
5	F	136	LEU
5	F	148	LYS
5	F	149	GLU
5	F	152	ASP
5	F	172	ARG
5	F	174	LEU
5	F	187	LEU
5	F	192	LEU
5	F	220	LEU
5	F	229	TYR
5	F	232	ARG
5	F	234	LYS

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Mol	Chain	Res	Type
5	F	245	GLN
5	F	249	ARG
5	F	256	ARG
5	F	272	SER
5	F	280	GLN
5	F	282	LEU
5	F	295	MET
5	F	318	GLU
5	F	321	ILE
5	F	328	PHE
5	F	329	TYR
5	F	335	ASP
5	F	336	GLU
5	F	341	PRO
5	F	347	GLN
5	F	349	LEU
5	F	363	GLU
5	F	364	ARG
5	F	377	ASP
5	F	398	ARG
5	F	399	GLN
5	F	405	LEU
5	F	410	TYR
5	F	419	ARG
1	K	19	GLU
1	K	26	GLU
1	K	38	ASN
1	K	47	SER
1	K	73	GLU
1	K	74	ASP
1	K	88	ARG
1	K	95	GLN
1	K	96	THR
1	K	113	ASP
1	K	115	LEU
1	K	124	ASN
1	K	138	LEU
1	K	146	ARG
1	K	148	VAL
1	K	156	HIS
1	K	159	LYS
1	K	161	ARG

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Mol	Chain	Res	Type
1	K	163	ASN
1	K	165	ILE
1	K	185	ARG
1	K	188	GLN
1	K	189	ARG
1	K	193	ASP
1	K	194	LYS
1	K	196	THR
1	K	205	VAL
1	K	206	THR
1	K	219	ARG
1	K	222	LEU
1	L	1	MET
1	L	2	LEU
1	L	5	LYS
1	L	9	PRO
1	L	12	THR
1	L	16	GLN
1	L	19	GLU
1	L	29	GLU
1	L	38	ASN
1	L	51	THR
1	L	62	LEU
1	L	77	GLU
1	L	95	GLN
1	L	112	ARG
1	L	115	LEU
1	L	124	ASN
1	L	126	ASP
1	L	140	MET
1	L	154	GLU
1	L	175	ARG
1	L	193	ASP
1	L	196	THR
1	L	200	TRP
1	L	201	THR
1	L	202	ASP
1	L	206	THR
1	L	213	GLN
2	M	6	PHE
2	M	9	ILE
2	M	20	GLU

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Mol	Chain	Res	Type
2	M	24	GLU
2	M	27	ARG
2	M	52	PHE
2	M	57	GLU
2	M	64	LEU
2	M	65	VAL
2	M	77	PRO
2	M	82	GLU
2	M	104	ASP
2	M	107	LEU
2	M	115	LEU
2	M	134	ARG
2	M	144	PRO
2	M	154	ARG
2	M	158	TYR
2	M	168	ARG
2	M	170	PRO
2	M	173	ASP
2	M	184	MET
2	M	186	VAL
2	M	190	LYS
2	M	198	ARG
2	M	203	ASP
2	M	209	ARG
2	M	221	LEU
2	M	230	ARG
2	M	242	LEU
2	M	243	ARG
2	M	249	LYS
2	M	256	TYR
2	M	266	ARG
2	M	269	LEU
2	M	275	TYR
2	M	281	LEU
2	M	288	ARG
2	M	290	LEU
2	M	301	GLU
2	M	321	GLU
2	M	325	ILE
2	M	328	LEU
2	M	343	GLN
2	M	359	MET

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Mol	Chain	Res	Type
2	M	383	ARG
2	M	394	PHE
2	M	420	ARG
2	M	425	PHE
2	M	426	ASP
2	M	433	THR
2	M	441	VAL
2	M	455	LEU
2	M	485	TYR
2	M	486	MET
2	M	492	ASP
2	M	503	LEU
2	M	507	ARG
2	M	511	GLU
2	M	512	ARG
2	M	520	GLU
2	M	523	ILE
2	M	533	ASP
2	M	537	LYS
2	M	548	PRO
2	M	554	ASP
2	M	559	LEU
2	M	564	MET
2	M	571	LEU
2	M	584	GLU
2	M	585	GLU
2	M	586	ARG
2	M	607	ASP
2	M	614	ARG
2	M	627	ARG
2	M	628	PHE
2	M	630	ARG
2	M	633	GLN
2	M	650	ARG
2	M	670	GLN
2	M	673	LEU
2	M	677	MET
2	M	689	VAL
2	M	691	SER
2	M	698	ASP
2	M	699	PHE
2	M	722	ILE

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Mol	Chain	Res	Type
2	M	727	PRO
2	M	738	ASP
2	M	745	ILE
2	M	762	LYS
2	M	766	GLU
2	M	768	THR
2	M	771	GLU
2	M	799	ILE
2	M	807	ARG
2	M	820	ARG
2	M	821	GLU
2	M	837	ASP
2	M	868	ASP
2	M	881	ASN
2	M	886	LEU
2	M	897	LEU
2	M	903	SER
2	M	911	GLU
2	M	925	TYR
2	M	934	PHE
2	M	939	ARG
2	M	950	LEU
2	M	958	THR
2	M	959	PRO
2	M	962	GLN
2	M	971	LYS
2	M	979	THR
2	M	984	GLU
2	M	988	VAL
2	M	1005	MET
2	M	1016	ILE
2	M	1020	PRO
2	M	1052	MET
2	M	1054	THR
2	M	1064	ASN
2	M	1095	LEU
2	M	1104	GLU
2	M	1115	LEU
3	N	3	LYS
3	N	6	ARG
3	N	30	GLU
3	N	63	TYR

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Mol	Chain	Res	Type
3	N	68	PHE
3	N	73	CYS
3	N	75	ARG
3	N	76	CYS
3	N	84	ILE
3	N	103	TRP
3	N	107	ASP
3	N	121	THR
3	N	123	LEU
3	N	126	VAL
3	N	128	TYR
3	N	142	LEU
3	N	143	ASN
3	N	149	LYS
3	N	153	LEU
3	N	154	THR
3	N	156	GLU
3	N	171	LEU
3	N	199	LEU
3	N	205	TYR
3	N	206	ARG
3	N	208	PRO
3	N	216	VAL
3	N	217	LYS
3	N	218	LYS
3	N	224	ARG
3	N	225	LEU
3	N	227	LEU
3	N	230	TRP
3	N	232	GLU
3	N	241	ILE
3	N	249	TYR
3	N	367	ILE
3	N	376	GLU
3	N	378	ILE
3	N	387	LEU
3	N	393	ILE
3	N	394	LEU
3	N	406	ASP
3	N	434	ARG
3	N	450	TYR
3	N	456	MET

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Mol	Chain	Res	Type
3	N	502	PHE
3	N	503	LEU
3	N	505	SER
3	N	523	ASP
3	N	525	ARG
3	N	537	THR
3	N	554	LEU
3	N	564	GLU
3	N	569	ASN
3	N	576	GLU
3	N	583	ASP
3	N	594	PRO
3	N	600	LEU
3	N	601	ARG
3	N	605	ASP
3	N	629	SER
3	N	642	CYS
3	N	650	LEU
3	N	651	GLU
3	N	675	ARG
3	N	676	MET
3	N	681	ARG
3	N	689	ASP
3	N	692	GLU
3	N	693	GLU
3	N	702	LEU
3	N	703	ASN
3	N	704	ARG
3	N	710	ARG
3	N	717	GLN
3	N	732	VAL
3	N	736	PHE
3	N	749	VAL
3	N	754	PHE
3	N	760	ARG
3	N	763	MET
3	N	769	LEU
3	N	783	ARG
3	N	784	ASP
3	N	785	ILE
3	N	787	LEU
3	N	794	GLN

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Mol	Chain	Res	Type
3	N	796	ARG
3	N	799	LYS
3	N	820	GLU
3	N	828	LYS
3	N	829	VAL
3	N	832	ARG
3	N	833	GLU
3	N	836	VAL
3	N	838	ARG
3	N	845	ASN
3	N	862	ASP
3	N	879	ARG
3	N	892	ASP
3	N	893	GLU
3	N	897	TRP
3	N	899	LEU
3	N	903	ASP
3	N	927	THR
3	N	936	TYR
3	N	943	THR
3	N	947	ILE
3	N	951	ILE
3	N	968	ASP
3	N	986	ARG
3	N	988	ARG
3	N	990	ASP
3	N	991	GLN
3	N	997	THR
3	N	1001	GLU
3	N	1003	VAL
3	N	1012	GLU
3	N	1041	LEU
3	N	1045	MET
3	N	1046	GLN
3	N	1058	ARG
3	N	1062	ARG
3	N	1066	THR
3	N	1068	LEU
3	N	1078	ARG
3	N	1108	ARG
3	N	1109	GLU
3	N	1116	ASN

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Mol	Chain	Res	Type
3	N	1117	TYR
3	N	1122	LEU
3	N	1127	GLU
3	N	1135	ARG
3	N	1139	ASP
3	N	1152	GLU
3	N	1166	LEU
3	N	1168	MET
3	N	1189	ARG
3	N	1190	SER
3	N	1201	CYS
3	N	1207	TYR
3	N	1208	ASP
3	N	1211	MET
3	N	1219	GLU
3	N	1223	ILE
3	N	1231	GLU
3	N	1234	THR
3	N	1241	PHE
3	N	1252	ILE
3	N	1282	ARG
3	N	1290	LEU
3	N	1304	LYS
3	N	1314	LYS
3	N	1315	ASP
3	N	1327	ARG
3	N	1346	ARG
3	N	1379	VAL
3	N	1388	ARG
3	N	1389	LEU
3	N	1390	LEU
3	N	1396	GLU
3	N	1410	GLU
3	N	1412	LYS
3	N	1432	LYS
3	N	1442	ASN
3	N	1472	ILE
3	N	1478	SER
3	N	1485	GLN
3	N	1492	LEU
4	O	10	PHE
4	O	32	ARG

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Mol	Chain	Res	Type
4	O	42	PRO
4	O	44	GLU
4	O	51	LEU
4	O	59	ASN
4	O	66	LYS
4	O	70	THR
4	O	79	LEU
4	O	81	PRO
4	O	83	ASP
5	P	128	ARG
5	P	134	LYS
5	P	152	ASP
5	P	245	GLN
5	P	285	GLU
5	P	286	PRO
5	P	302	LYS
5	P	318	GLU
5	P	324	GLU
5	P	336	GLU
5	P	337	HIS
5	P	341	PRO
5	P	365	GLU
5	P	372	ARG
5	P	394	ARG
5	P	398	ARG
5	P	408	LEU
5	P	410	TYR
5	P	421	PHE

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (168) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	38	ASN
1	A	63	HIS
1	A	95	GLN
1	A	124	ASN
1	A	156	HIS
1	A	163	ASN
1	A	180	GLN
1	A	212	ASN
1	A	227	ASN
1	B	38	ASN

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Mol	Chain	Res	Type
1	B	63	HIS
1	B	95	GLN
1	B	124	ASN
1	B	156	HIS
1	B	163	ASN
1	B	212	ASN
1	B	221	HIS
1	B	229	GLN
2	C	22	GLN
2	C	31	GLN
2	C	41	ASN
2	C	45	GLN
2	C	91	GLN
2	C	102	HIS
2	C	141	HIS
2	C	179	ASN
2	C	343	GLN
2	C	406	HIS
2	C	431	HIS
2	C	434	HIS
2	C	538	GLN
2	C	545	ASN
2	C	563	ASN
2	C	632	ASN
2	C	633	GLN
2	C	663	ASN
2	C	671	ASN
2	C	704	HIS
2	C	829	GLN
2	C	834	GLN
2	C	841	ASN
2	C	860	HIS
2	C	881	ASN
2	C	889	HIS
2	C	969	GLN
2	C	1030	GLN
2	C	1100	GLN
2	C	1107	ASN
3	D	151	GLN
3	D	166	GLN
3	D	442	ASN
3	D	462	GLN

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Mol	Chain	Res	Type
3	D	507	ASN
3	D	560	GLN
3	D	575	GLN
3	D	703	ASN
3	D	709	HIS
3	D	714	GLN
3	D	717	GLN
3	D	727	GLN
3	D	756	GLN
3	D	794	GLN
3	D	855	HIS
3	D	973	GLN
3	D	994	GLN
3	D	1046	GLN
3	D	1103	HIS
3	D	1323	GLN
3	D	1334	GLN
3	D	1353	GLN
3	D	1359	GLN
3	D	1374	GLN
3	D	1404	ASN
3	D	1441	GLN
3	D	1485	GLN
3	D	1489	GLN
4	E	28	GLN
5	F	83	GLN
5	F	90	GLN
5	F	161	GLN
5	F	191	ASN
5	F	277	GLN
5	F	312	GLN
1	K	63	HIS
1	K	95	GLN
1	K	124	ASN
1	K	156	HIS
1	K	180	GLN
1	K	188	GLN
1	K	212	ASN
1	K	229	GLN
1	L	95	GLN
1	L	124	ASN
1	L	163	ASN

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Mol	Chain	Res	Type
1	L	212	ASN
1	L	221	HIS
2	M	91	GLN
2	M	117	HIS
2	M	130	ASN
2	M	139	GLN
2	M	343	GLN
2	M	393	GLN
2	M	431	HIS
2	M	506	ASN
2	M	538	GLN
2	M	543	ASN
2	M	552	HIS
2	M	563	ASN
2	M	575	GLN
2	M	609	ASN
2	M	632	ASN
2	M	639	GLN
2	M	663	ASN
2	M	670	GLN
2	M	671	ASN
2	M	704	HIS
2	M	829	GLN
2	M	834	GLN
2	M	841	ASN
2	M	845	ASN
2	M	881	ASN
2	M	889	HIS
2	M	899	GLN
2	M	920	GLN
2	M	999	HIS
2	M	1019	GLN
2	M	1026	GLN
2	M	1064	ASN
2	M	1100	GLN
3	N	101	HIS
3	N	125	GLN
3	N	151	GLN
3	N	166	GLN
3	N	529	GLN
3	N	549	ASN
3	N	551	ASN

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Mol	Chain	Res	Type
3	N	575	GLN
3	N	636	GLN
3	N	641	GLN
3	N	703	ASN
3	N	714	GLN
3	N	727	GLN
3	N	756	GLN
3	N	768	ASN
3	N	794	GLN
3	N	1031	ASN
3	N	1034	GLN
3	N	1046	GLN
3	N	1075	HIS
3	N	1116	ASN
3	N	1184	GLN
3	N	1195	GLN
3	N	1202	GLN
3	N	1227	GLN
3	N	1323	GLN
3	N	1334	GLN
3	N	1359	GLN
3	N	1485	GLN
3	N	1489	GLN
4	O	28	GLN
4	O	29	GLN
4	O	59	ASN
4	O	86	GLN
5	P	86	HIS
5	P	214	GLN
5	P	217	ASN
5	P	218	GLN
5	P	347	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 8 ligands modelled in this entry, 6 are monoatomic - leaving 2 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$
6	STD	D	1525	-	42,47,47	2.12	13 (30%)	47,73,73	1.74	9 (19%)
6	STD	M	1120	-	42,47,47	1.93	12 (28%)	47,73,73	2.01	12 (25%)

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
6	STD	D	1525	-	-	7/31/101/101	0/6/5/5
6	STD	M	1120	-	-	12/31/101/101	0/6/5/5

All (25) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	D	1525	STD	C22-N2	4.98	1.40	1.33
6	D	1525	STD	C26-C25	4.63	1.60	1.52
6	D	1525	STD	O5-C19	4.46	1.47	1.43
6	D	1525	STD	O8-C19	4.16	1.46	1.43
6	M	1120	STD	C26-C25	4.12	1.59	1.52
6	D	1525	STD	C16-C13	3.84	1.61	1.53
6	M	1120	STD	C20-C3	-3.80	1.49	1.53
6	M	1120	STD	O4-C4	3.78	1.47	1.42
6	D	1525	STD	C15-C26	3.41	1.57	1.52
6	M	1120	STD	C22-N2	3.41	1.37	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	M	1120	STD	O8-C19	3.25	1.46	1.43
6	M	1120	STD	C16-C13	3.15	1.60	1.53
6	M	1120	STD	O5-C19	2.81	1.45	1.43
6	D	1525	STD	C17-C30	2.54	1.54	1.49
6	D	1525	STD	O1-C3	2.51	1.26	1.22
6	D	1525	STD	C4-N1	-2.47	1.42	1.45
6	M	1120	STD	C17-C30	2.47	1.53	1.49
6	M	1120	STD	C15-C26	2.46	1.55	1.52
6	D	1525	STD	O4-C4	2.36	1.45	1.42
6	D	1525	STD	C28-C32	2.26	1.53	1.50
6	M	1120	STD	C20-N1	2.24	1.50	1.47
6	D	1525	STD	O8-C17	2.14	1.47	1.44
6	M	1120	STD	C18-C16	2.13	1.57	1.53
6	D	1525	STD	C27-C25	2.13	1.56	1.51
6	M	1120	STD	O6-C22	2.12	1.27	1.23

All (21) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	M	1120	STD	O4-C4-N1	6.75	113.28	105.92
6	D	1525	STD	C29-C19-C28	-5.62	108.73	113.30
6	M	1120	STD	C29-C19-C28	-5.16	109.10	113.30
6	M	1120	STD	O8-C19-C29	5.00	109.86	105.64
6	D	1525	STD	C19-O5-C13	4.56	117.72	112.80
6	D	1525	STD	O8-C19-C29	3.83	108.87	105.64
6	D	1525	STD	C2-C1-C3	-3.76	103.84	107.80
6	M	1120	STD	C19-O5-C13	3.50	116.58	112.80
6	M	1120	STD	C2-C1-C3	-3.11	104.53	107.80
6	M	1120	STD	O8-C17-C30	-2.69	109.04	111.68
6	D	1525	STD	C21-C22-N2	-2.65	112.40	116.33
6	D	1525	STD	O6-C22-C21	2.57	125.65	121.02
6	D	1525	STD	C31-O9-C28	2.55	64.73	61.14
6	M	1120	STD	C6-C5-C1	2.44	127.01	124.51
6	M	1120	STD	O1-C3-C1	-2.43	122.67	128.52
6	M	1120	STD	O9-C31-C28	-2.41	55.88	58.89
6	D	1525	STD	O8-C17-C30	-2.40	109.33	111.68
6	M	1120	STD	C6-C7-C8	-2.35	122.68	126.23
6	M	1120	STD	C31-O9-C28	2.23	64.28	61.14
6	D	1525	STD	O9-C31-C28	-2.05	56.34	58.89
6	M	1120	STD	O4-C25-C27	2.03	111.08	106.70

There are no chirality outliers.

All (19) torsion outliers are listed below:

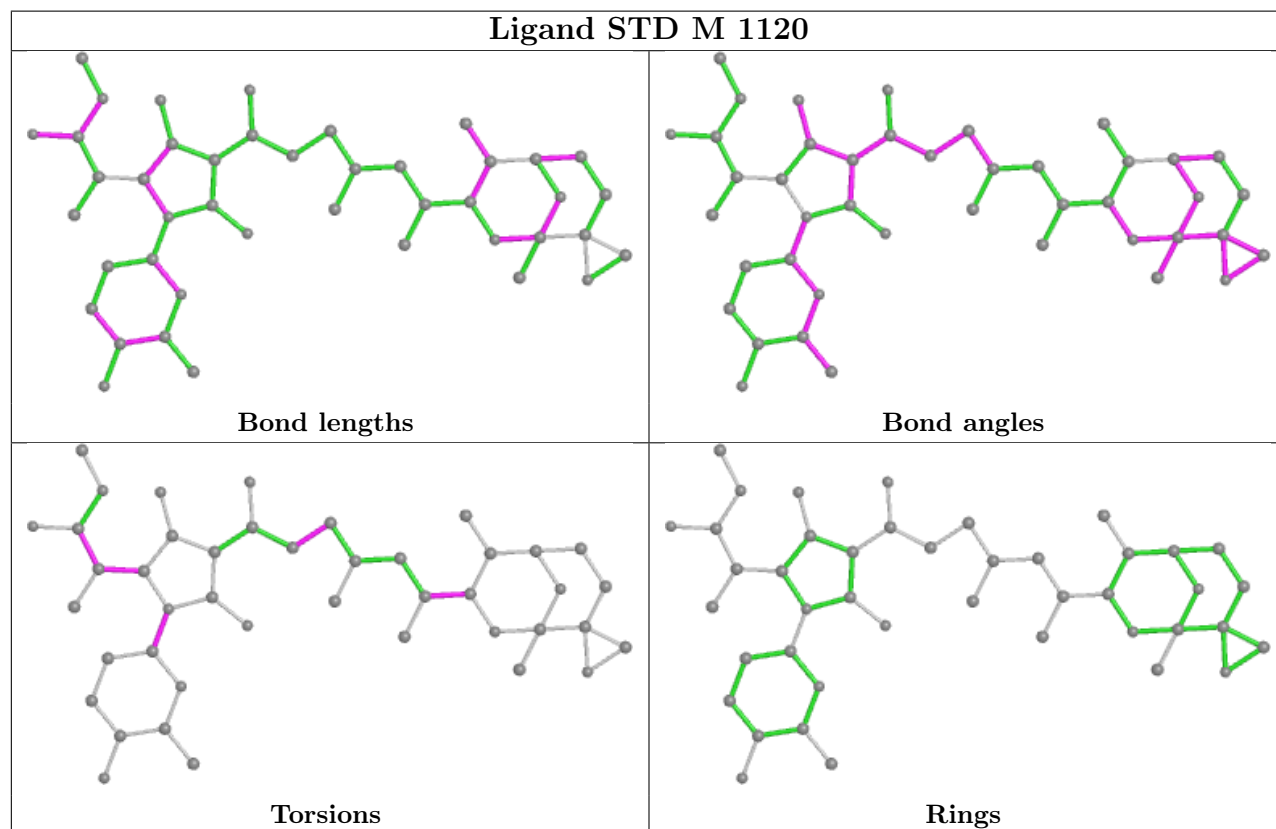
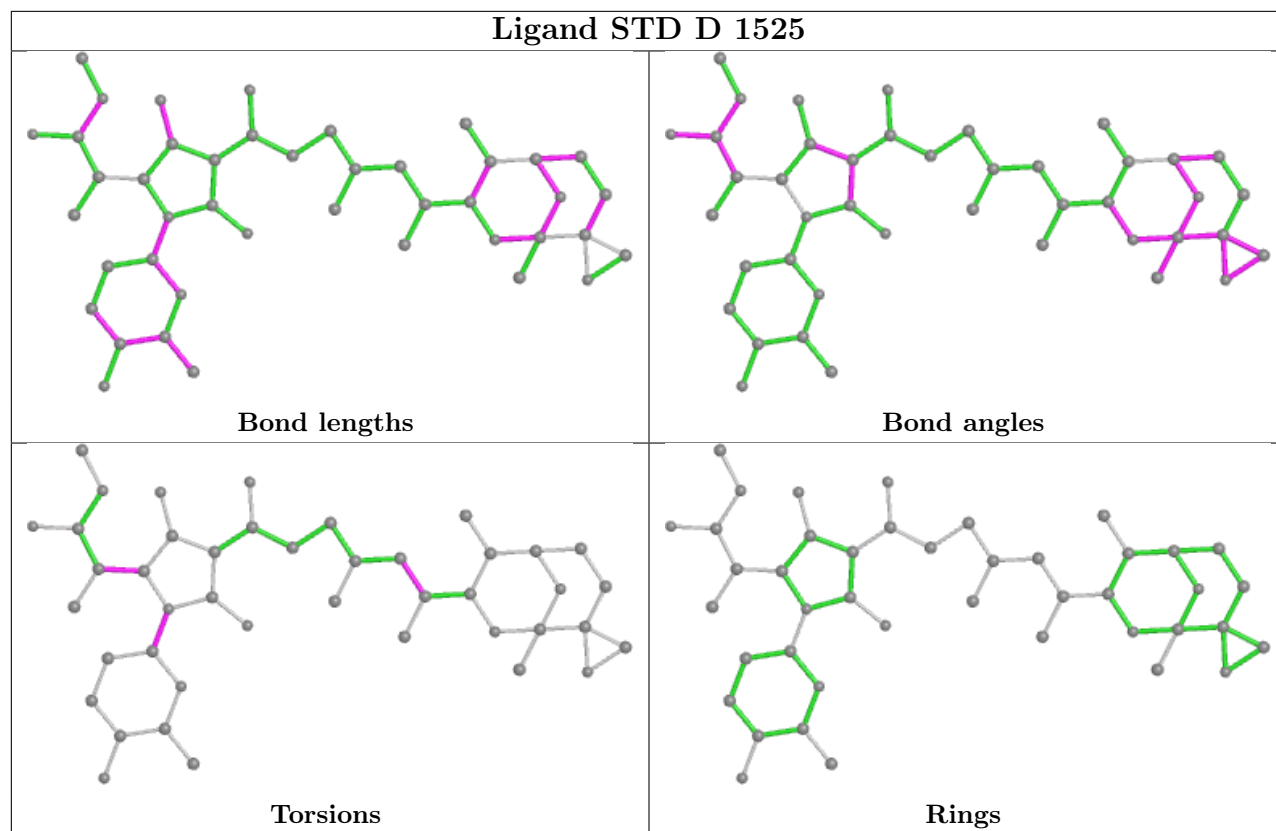
Mol	Chain	Res	Type	Atoms
6	D	1525	STD	N1-C20-C21-C22
6	D	1525	STD	N1-C20-C21-C23
6	D	1525	STD	C3-C20-C21-C23
6	M	1120	STD	O4-C4-N1-C20
6	M	1120	STD	C9-C10-C13-C16
6	M	1120	STD	C9-C10-C13-O5
6	M	1120	STD	C14-C10-C13-C16
6	M	1120	STD	C14-C10-C13-O5
6	M	1120	STD	N1-C20-C21-C22
6	M	1120	STD	N1-C20-C21-C23
6	M	1120	STD	C3-C20-C21-C23
6	M	1120	STD	C23-C21-C22-N2
6	M	1120	STD	C23-C21-C22-O6
6	D	1525	STD	C14-C10-C9-C8
6	D	1525	STD	C13-C10-C9-C8
6	M	1120	STD	C5-C6-C7-C8
6	D	1525	STD	C3-C20-C21-C22
6	M	1120	STD	C3-C20-C21-C22
6	D	1525	STD	O4-C4-N1-C2

There are no ring outliers.

2 monomers are involved in 18 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
6	D	1525	STD	10	0
6	M	1120	STD	8	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 i

6.1 Protein, DNA and RNA chains i

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

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
1	A	229/315 (72%)	-0.58	0 100 100	32, 58, 89, 110	0
1	B	229/315 (72%)	-0.52	1 (0%) 92 79	45, 96, 120, 124	0
1	K	229/315 (72%)	-0.56	0 100 100	24, 57, 82, 111	0
1	L	229/315 (72%)	-0.62	0 100 100	43, 78, 96, 117	0
2	C	1119/1119 (100%)	-0.55	5 (0%) 92 79	21, 67, 123, 137	0
2	M	1119/1119 (100%)	-0.54	3 (0%) 94 84	21, 69, 120, 130	0
3	D	1392/1524 (91%)	-0.53	10 (0%) 87 69	20, 64, 107, 125	0
3	N	1392/1524 (91%)	-0.48	19 (1%) 75 49	20, 64, 125, 140	0
4	E	95/99 (95%)	-0.56	0 100 100	52, 82, 99, 102	0
4	O	95/99 (95%)	-0.52	0 100 100	46, 86, 114, 119	0
5	F	345/423 (81%)	-0.57	1 (0%) 94 84	53, 77, 97, 104	0
5	P	345/423 (81%)	-0.57	0 100 100	47, 81, 97, 108	0
All	All	6818/7590 (89%)	-0.53	39 (0%) 89 72	20, 69, 118, 140	0

All (39) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
3	N	406	ASP	5.8
3	D	802	ALA	5.5
3	D	205	TYR	5.4
3	D	801	GLY	4.9
3	N	224	ARG	4.3
2	M	267	TYR	4.1
3	D	410	SER	4.0
2	C	211	LEU	3.8
3	N	425	GLY	3.7
3	D	1398	TRP	3.4
2	C	196	LEU	3.3

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Mol	Chain	Res	Type	RSRZ
3	N	112	ILE	3.1
3	N	199	LEU	3.1
3	N	424	GLY	3.1
3	N	381	ALA	3.0
3	N	1398	TRP	3.0
3	N	387	LEU	2.8
3	N	412	GLY	2.8
3	N	1251	ASP	2.8
3	D	1245	GLY	2.7
3	N	1240	THR	2.6
3	D	1244	GLY	2.6
2	C	186	VAL	2.5
3	D	128	TYR	2.5
3	N	128	TYR	2.4
3	N	371	ILE	2.4
3	D	428	LYS	2.4
3	N	1241	PHE	2.3
2	M	222	MET	2.3
3	N	388	HIS	2.3
2	C	267	TYR	2.3
3	N	413	ASP	2.3
3	D	1241	PHE	2.3
3	N	178	LEU	2.2
5	F	95	THR	2.2
3	N	186	VAL	2.1
2	C	271	GLU	2.1
2	M	186	VAL	2.0
1	B	1	MET	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.

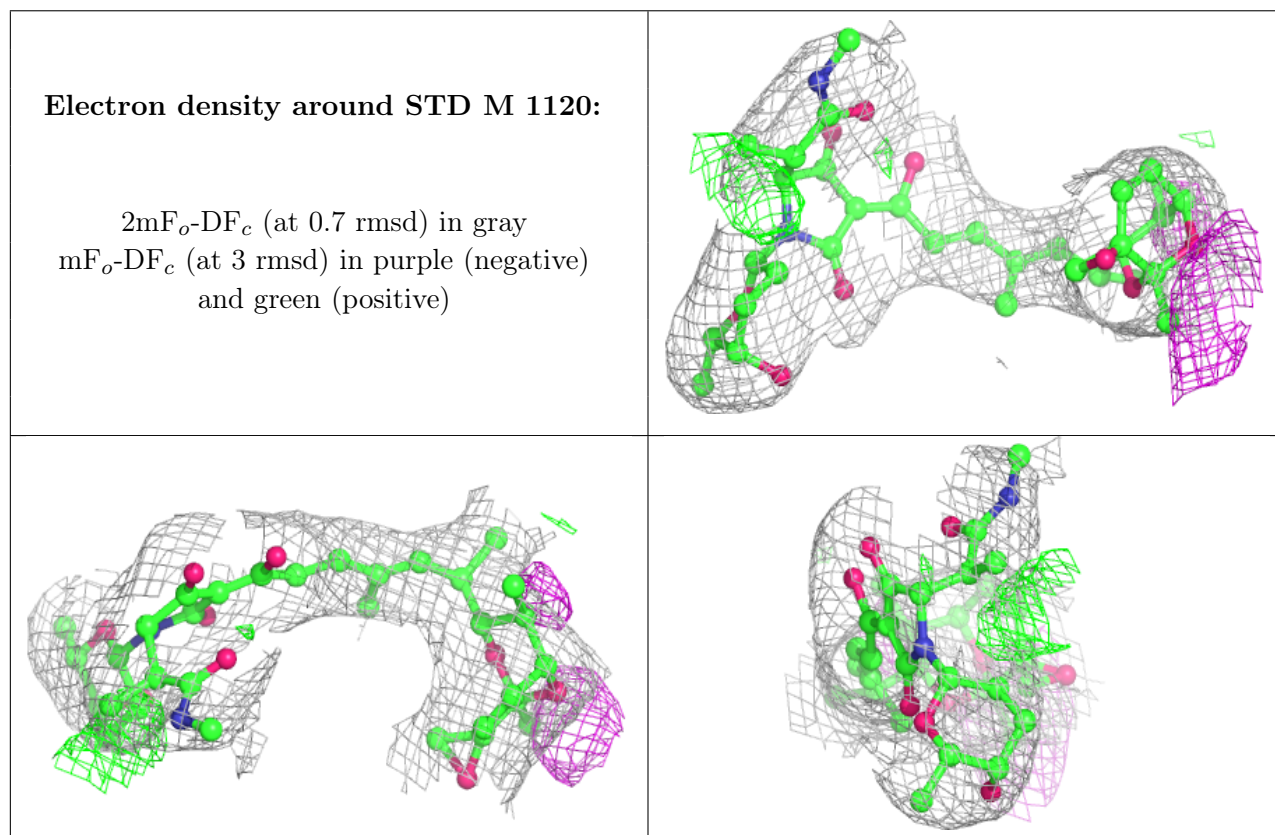
6.4 Ligands [i](#)

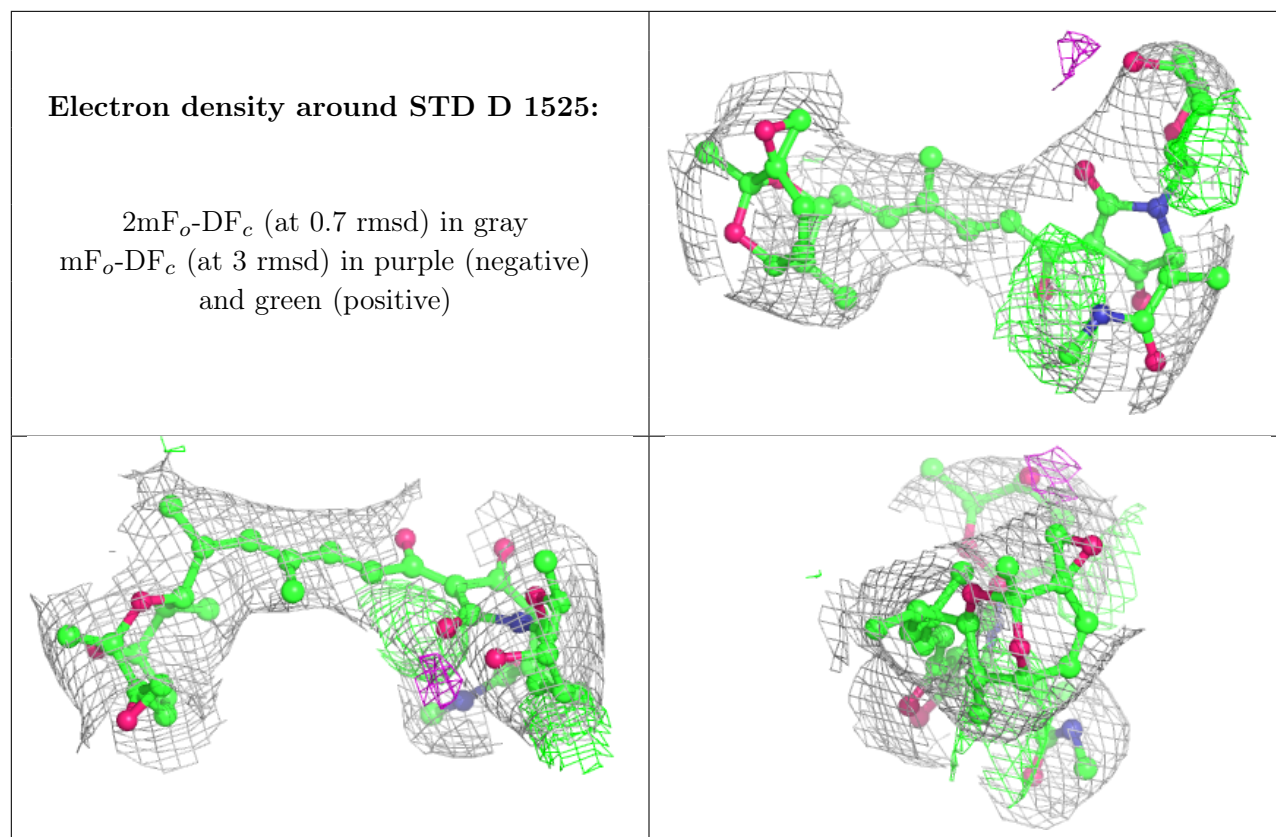
In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum,

median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists the number of atoms with occupancy less than 0.9.

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
6	STD	M	1120	43/43	0.92	0.20	39,51,53,56	0
6	STD	D	1525	43/43	0.95	0.17	39,59,62,63	0
8	MG	N	9902	1/1	0.96	0.22	30,30,30,30	0
8	MG	D	9901	1/1	0.97	0.13	20,20,20,20	0
7	ZN	D	9002	1/1	0.98	0.22	47,47,47,47	0
7	ZN	N	9004	1/1	0.99	0.23	56,56,56,56	0
7	ZN	D	9001	1/1	0.99	0.20	56,56,56,56	0
7	ZN	N	9003	1/1	0.99	0.24	55,55,55,55	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.