



Full wwPDB X-ray Structure Validation Report ⓘ

Feb 15, 2017 – 07:53 am GMT

PDB ID : 3PVM
Title : Structure of Complement C5 in Complex with CVF
Authors : Laursen, N.S.; Andersen, K.R.; Braren, I.; Sottrup-Jensen, L.; Spillner, E.; Andersen, G.R.
Deposited on : 2010-12-07
Resolution : 4.30 Å(reported)

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

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

A user guide is available at

<http://wwpdb.org/validation/2016/XrayValidationReportHelp>

with specific help available everywhere you see the ⓘ symbol.

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

MolProbity : 4.02b-467
Mogul : 1.7.2 (RC1), CSD as538be (2017)
Xtriage (Phenix) : 1.9-1692
EDS : trunk28620
Percentile statistics : 20161228.v01 (using entries in the PDB archive December 28th 2016)
Refmac : 5.8.0135
CCP4 : 6.5.0
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : recalc28949

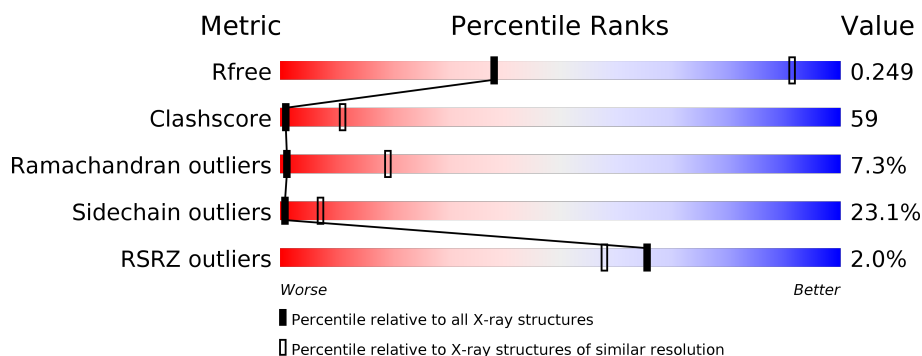
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 4.30 Å.

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



Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
R_{free}	100719	1002 (4.92-3.62)
Clashscore	112137	1001 (4.92-3.68)
Ramachandran outliers	110173	1012 (4.92-3.64)
Sidechain outliers	110143	1021 (4.92-3.62)
RSRZ outliers	101464	1009 (4.92-3.62)

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

Mol	Chain	Length	Quality of chain
1	A	1676	<div> <div>2%</div> <div> <div></div> <div>24%</div> <div>52%</div> <div>20%</div> <div>• •</div> </div> </div>
1	C	1676	<div> <div>2%</div> <div> <div></div> <div>24%</div> <div>52%</div> <div>20%</div> <div>• •</div> </div> </div>
2	B	1642	<div> <div>%</div> <div> <div></div> <div>23%</div> <div>38%</div> <div>13%</div> <div>•</div> <div>25%</div> </div> </div>
2	D	1642	<div> <div>%</div> <div> <div></div> <div>23%</div> <div>38%</div> <div>13%</div> <div>•</div> <div>25%</div> </div> </div>

The following table lists non-polymeric compounds, carbohydrate monomers and non-standard residues in protein, DNA, RNA chains that are outliers for geometric or electron-density-fit crite-

ria:

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
3	NAG	B	2002	-	-	-	X
3	NAG	D	2002	-	-	-	X

2 Entry composition [i](#)

There are 3 unique types of molecules in this entry. The entry contains 45268 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.

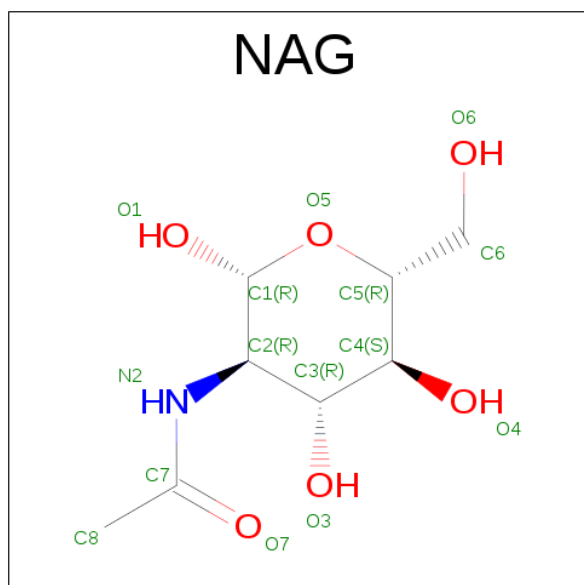
- Molecule 1 is a protein called Complement C5.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	1627	Total	C	N	O	S	0	0	0
			12881	8246	2114	2469	52			
1	C	1627	Total	C	N	O	S	0	0	0
			12881	8246	2114	2469	52			

- Molecule 2 is a protein called Cobra venom factor.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	B	1225	Total	C	N	O	S	0	0	0
			9711	6187	1633	1851	40			
2	D	1225	Total	C	N	O	S	0	0	0
			9711	6187	1633	1851	40			

- Molecule 3 is SUGAR (N-ACETYL-D-GLUCOSAMINE) (three-letter code: NAG) (formula: $C_8H_{15}NO_6$).

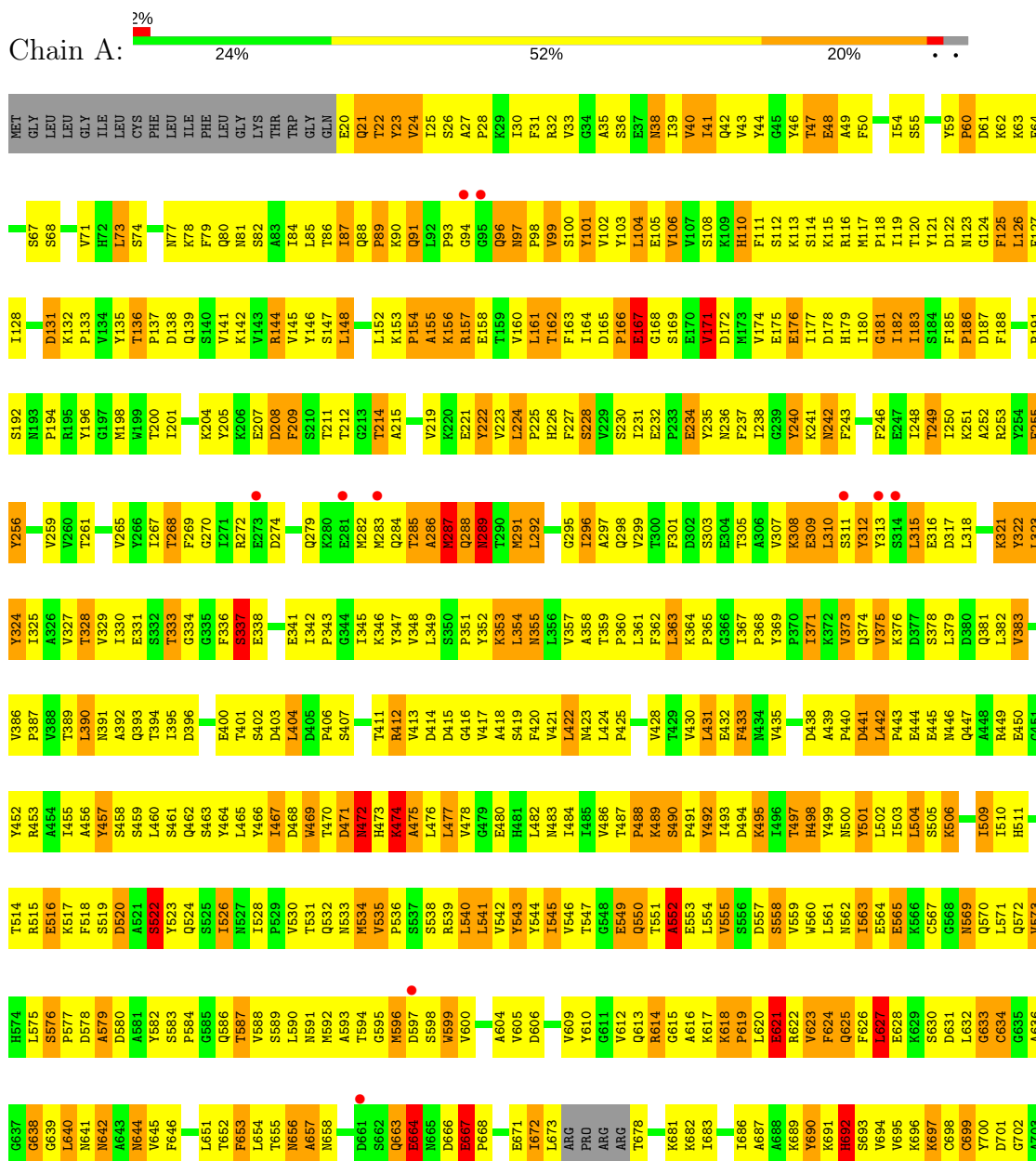


Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
3	A	1	Total	C	N	O	0	0
			14	8	1	5		
3	B	1	Total	C	N	O	0	0
			14	8	1	5		
3	B	1	Total	C	N	O	0	0
			14	8	1	5		
3	C	1	Total	C	N	O	0	0
			14	8	1	5		
3	D	1	Total	C	N	O	0	0
			14	8	1	5		
3	D	1	Total	C	N	O	0	0
			14	8	1	5		

3 Residue-property plots

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

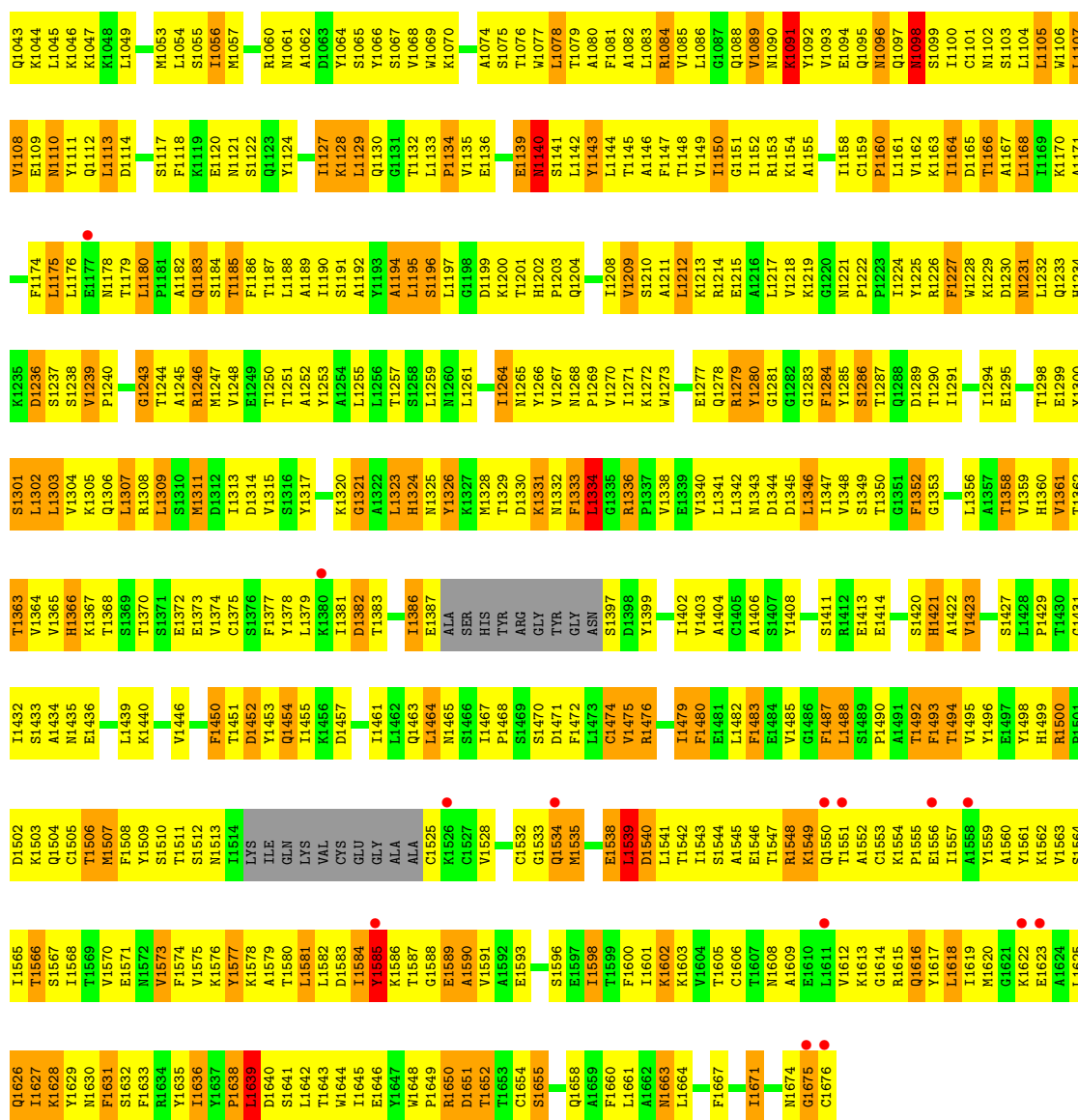
• Molecule 1: Complement C5



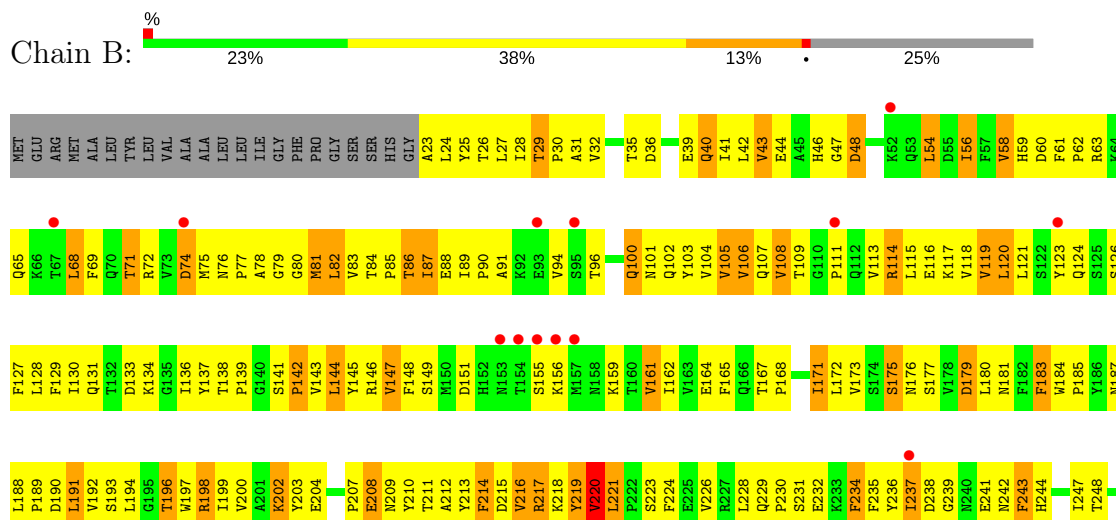
Q1626	S1564	D1502	T1430	H360	E1299	Q1233	K1170	L1104	P1038	1973	3909	G843	L779	C704
I1627	I1565	K1503	G1431	V1361	Y1300	H1234	A1171	L1105	L1039	K974	1910	T844	V760	V705
K1628	T1566	C1505	I1432	T1363	S1301	K1235	F1174	W1106	E1041	R975	3911	V845	P781	N706
F1629	I1567	Q1506	S1433	T1362	L1302	D1236	L1175	L1107	E1042	1976	F912	Y846	R782	
N1630	T1568	L1506	A1434	V1364	S1303	S1237	L1176	E1108	Q1043	1977	3913	K847	R783	E709
F1631	T1569	M1507	F1439	V1365	V1304	S1238	L1177	E1109	Q1043	1978	1914	K764	K764	T710
S1632	V1570	F1508	K1440	H366	K1305	V1239	N1178	W1110	K1044	1979	F915	Q785	Q785	
F1633	I1571	Y1509	K1440	K1367	Q1306	P1240	N1179	Q1111	L1045	1980	1916	L786	L786	Q713
F1634	N1572	S1510	V1446	T1368	L1307		T1179	Q1112	L1046	1981	4917	Q787	Q787	R714
Y1635	F1573	T1511		S1369	R1308	T1244	F1181	L1113	K1047	1982	F918	Q788	Q788	
Y1636	F1574	S1512		T1370	L1309	T1244	L1180	L1113	L1048	1983	Q854	A789	A789	L720
Y1637	F1575	N1513		E1372	S1310	A1245	Q1183	D1114	L1048	1984	Q920	F791	F791	G721
L1638	K1576	T1514	T1451	E1373	R1311	R1246	S1117	S1117	M1053	1985	1923	D792	D792	A723
D1640	K1578	LYS	D1452	E1373	D1312	M1247	F1118	F1118	L1054	1986	Y924	K958	K958	C724
S1641	A1579	ILE	Q1453	V1374	I1313	V1248	K1119	K1119	S1055	1987	1925	L794	L794	
L1642	T1580	GLN	Q1454	C1375	D1314	E1249	E1120	E1120	L1062	1988	1926	C966	C966	A727
T1643	LYS	L1545	L1455	C1375	V1315	T1250	N1121	N1121	S1056	1989	1927	T795	T795	F728
W1644	VAL	VAL	K1456	F1377	S1316	T1251	L1188	S1122	M1057	1990	1928	Q800	Q800	
L1645	CYS	CYS	D1457	Y1378	Y1317	A1252	A1189	Q1123	P1004	1991	1929	V862	V862	V729
E1646	GLU	GLU		L1379		Y1253	I1190	Y1124	P1004	1992	1930	C976	C976	S734
Y1647	GLY	GLY	T1461	K1380	K1320	A1254	S1191	T1127	S1007	1993	1931	Q803	Q803	
W1648	ALA	ALA	Q1463	D1382	G1321	L1255	A1192	K1128	A1008	1994	1932	I804	I804	
P1649	L1464	C1525	L1464	T1383	A1322	L1256	Y1193	L1129	L1077	1995	1933	S805	S805	Q737
R1650	K1586	K1526	N1465	T1386	H1324	S1257	L1195	T1132	T1079	1996	1934	S870	S870	L739
D1651	E1589	C1527	S1466	E1387	N1325	L1259	S1196	L1133	L1078	1997	1935	P871	P871	
T1652	A1590	Y1528		ALA	Y1327	L1261	L1197	P1134	L1078	1998	1936	R872	R872	
C1654	A1592			SER	M1328	L1261	G1198	W1135	T1001	1999	1937	G808	G808	
S1655	E1593	Q1532		TYR	T1329	L1261	K1200	E1136	H1002	2000	1938	I809	I809	I742
S1656		Q1534		ARG	D1330	L1271	T1201	E1136	L1003	2001	1939	H875	H875	S743
C1657	S1596	M1535		GLY	K1331	Y1265	H1202	E1139	L1075	2002	1940	Q810	Q810	
Q1658	E1597	Q1536		GLY	N1332	Y1266	P1203	N1140	S1007	2003	1941	A812	A812	LHS
A1659	T1598	E1537		TYR	F1333	L1267	H1203	S1141	A1008	2004	1942	V815	V815	ASP
L1661	F1600	L1539		ASN	F1334	P1269	Q1204	L1142	E1009	2005	1943	K882	K882	MET
A1662	I1601	D1540			G1335	L1270	Y1209	Y1143	A1010	2006	1944	V884	V884	GLN
N1663	K1602	L1541	I1479		R1336	L1271	S1210	L1144	A1080	2007	1945	R885	R885	LEU
L1664	F1603	T1542	E1480	I1402	P1337	K1272	S1211	T1145	F1081	2008	1946	Q886	Q886	GLY
F1667	T1605	S1544	E1481	V1403	V1338	L1273	A1211	T1146	A1082	2009	1947	V887	V887	
	C1606	A1545	L1482	A1404	V1340	L1274	L1212	F1147	L1083	2010	1948	R888	R888	L752
I1671	T1607	E1546	F1483	G1405	L1341	E1277	R1213	T1148	R1084	2011	1949	K821	K821	R751
N1674	N1608	T1547	E1484	G1406	L1342	Q1278	R1214	W1149	V1015	2012	1950	D822	D822	H753
G1675	A1609	R1548	V1485	S1407	N1343	R1279	E1215	L1150	P1017	2013	1951	V823	V823	K755
C1676	V1612	K1549	G1486	Y1408	D1344	Y1280	G1216	G1151	G1087	2014	1952	R824	R824	T756
	K1613	T1550	F1487		D1345	G1281	V1218	L1152	Q1088	2015	1953	L825	L825	L757
	G1614	T1551	S1489	S1411	L1346	G1282	K1219	R1153	V1089	2016	1954	E826	E826	L758
	R1615	A1552	E1412	E1412	L1347	F1284	N1221	L1158	K1091	2017	1955	H894	H894	P759
	R1616	C1553	E1413	E1414	S1349	Y1285	P1222	C1159	F1022	2018	1956	T897	T897	V760
	Q1616	K1554			T1350	S1286	P1223	P1160	H1023	2019	1957	V896	V896	
	Y1617	P1555	T1492	S1420	G1351	T1287	F1223	L1161	H1024	2020	1960	R898	R898	L765
	L1618	E1556	F1493	H1421	F1352	Q1288	Y1225	L1162	L1025	2021	1961	Y831	Y831	R766
	I1619	I1557	V1495	A1422	T1289	Q1289	L1226	V1162	E1026	2022	1962	S832	S832	S767
	M1620	A1558	Y1496	V1423	S1354	T1290	F1227	K1163	T1027	2023	1963	V834	V834	Y768
	G1621	L1559	E1497	G1355	L1291	I1291	Y1228	D1165	W1031	2024	1967	E837	E837	W773
	K1622	A1560	Y1498	L1356	I1294	I1294	K1229	T1166	N1032	2025	1968	Q838	Q838	L774
	E1623	Y1561	L1499	A1367	T1294	T1294	D1230	T1166	I1033	2026	1969	I905	I905	W775
	A1624	L1562	R1500	L1428	L1358	L1358	N1231	L1168	F1034	2027	1970	G906	G906	E776
	L1625	P1501	P1501	P1429	V1359	I1295	L1232	L1169	S1103	2028	1971	L907	L907	W777
									D1037	2029	1972	H908	H908	H778

• Molecule 1: Complement C5

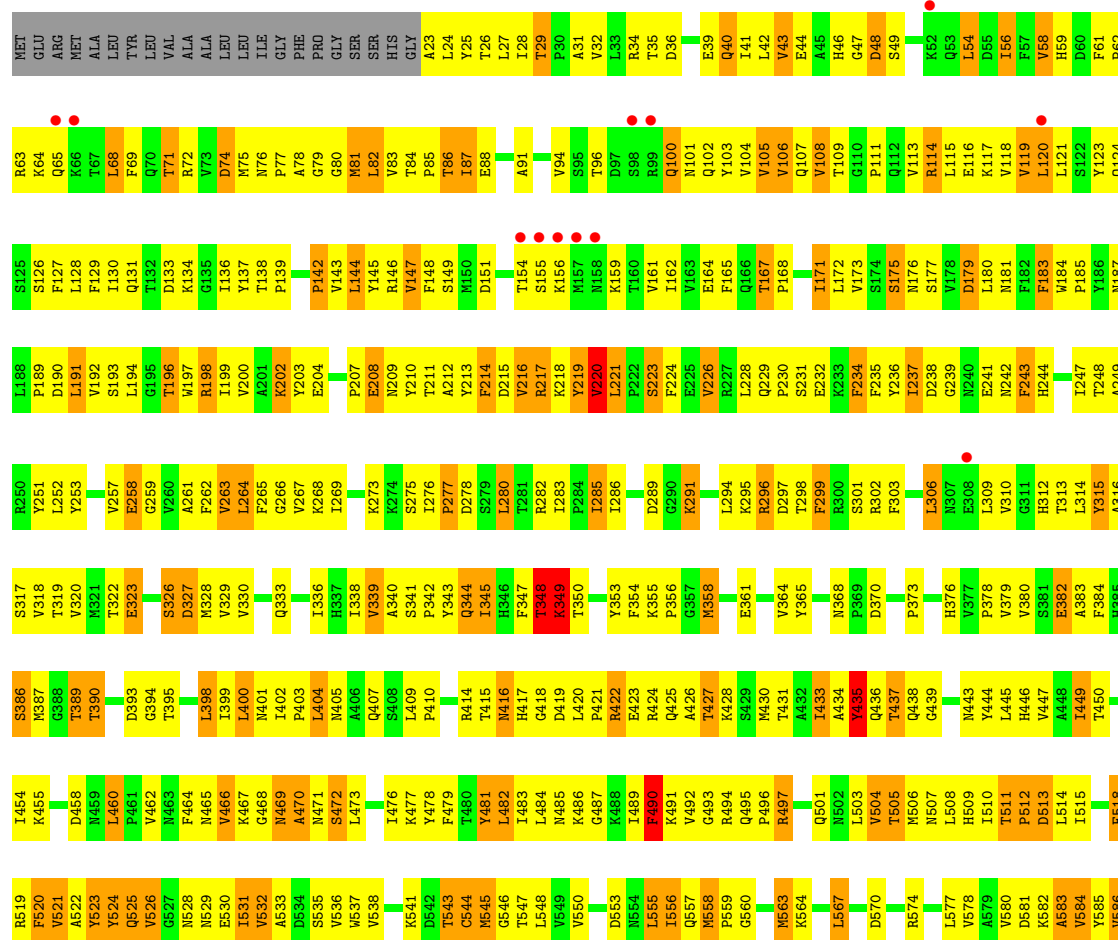




• Molecule 2: Cobra venom factor



R1289	ASP	ARG	VAL	SER	ILE	V925	E849	V789	SER	ALA	W599	V526	V462	G394	T322	Y251
Y1290	GLN	PRO	LEU	THR	THR	T926	L850	L790	GLU	ALA	T602	G527	N463	T395	E323	L252
R1291	THR	THR	SER	ALA	PRO	Y927	L851	A791	LEU	GLU	E603	N529	F464	L398	S326	Y253
N1292	GLY	THR	GLY	ALA	SER	V928	Y852	V792	PHE	PHE	E604	N529	N465	L399	M328	E258
N1293	PRO	THR	THR	PHE	THR	V929	N853	S793	LEU	GLN	S605	I531	K467	L400	M328	E258
Y1294	ILE	ALA	MET	THR	GLY	V795	F794	S795	ALA	ASP	S606	I532	G468	N401	V329	G259
E1295	VAL	LEU	GLN	ASN	GLY	T796	F856	T796	ASN	GLN	F607	V532	N469	I402	V330	V260
N1296	ARG	THR	GLY	ARG	GLU	T797	C857	T797	ASP	ASP	G608	A533	A470	F403	V330	V260
A1297	TRP	ALA	GLN	ALA	GLN	V798	S860	K798	ASP	LEU	G609	D534	N471	F403	A261	F262
L1298	LEU	THR	ILE	SER	ASN	G937	S861	G799	N735	LYS	S613	S535	S472	L404	V263	V263
L1299	THR	ALA	GLN	SER	ILE	G938	K862	G799	N736	CYS	G614	V538	S472	L404	V263	V263
A1300	ASP	LEU	GLY	SER	ARG	G939	K863	C801	G738	CYS	G615	V538	S472	L404	V263	V263
R1301	GLN	ALA	ALA	TRP	ARG	G941	S864	V802	F739	GLU	G616	V538	S472	L404	V263	V263
T1302	ASN	ALA	GLU	LEU	MET	G941	S864	V802	F739	GLU	G616	V538	S472	L404	V263	V263
V1303	PHE	ALA	GLU	THR	ALA	L942	R865	A803	D742	ASP	N617	K541	I476	L409	V266	G266
V1304	THR	ASP	GLU	ALA	ALA	E943	R866	E804	V743	VAL	N618	D542	K477	L409	V266	G266
T1305	GLY	GLN	VAL	THR	PRO	V944	R867	P805	S743	VAL	G619	C544	F479	P410	V266	G266
K1306	GLU	LEU	TYR	VAL	VAL	I945	Q868	Y806	D744	HIS	V620	N545	T480	R414	V266	G266
L1307	THR	ASN	LEU	VAL	ILE	K946	Q869	Y807	I745	GLU	F621	G546	Y481	T415	V266	G266
N1308	THR	ASP	THR	LYS	ALA	A947	F870	T808	I746	ASN	E622	T547	Y482	Q342	V266	G266
Q1309	GLY	ASP	ALA	VAL	THR	P871	S871	R809	S747	PRO	G625	L548	I483	Q344	V266	G266
D1310	GLN	ARG	PHE	PHE	THR	K872	S872	V810	R748	MET	G626	V549	L484	H346	V266	G266
I1311	THR	VAL	ILE	ALA	THR	K873	S873	N811	S749	GLY	L626	V550	N485	D278	V266	G266
T1312	GLN	LEU	LEU	MET	LEU	D951	K812	K812	D750	THR	A627	V550	K486	F347	V266	G266
V1313	ALA	MET	VAL	ALA	ASP	D952	B878	V813	F751	THR	L628	D553	G487	T348	V266	G266
T1314	THR	ALA	ALA	ALA	THR	R953	P881	F814	F752	CYS	T629	N554	K488	R282	V266	G266
A1315	VAL	SER	LEU	LYS	THR	V954	F882	F815	K753	GLU	T630	N554	K488	R282	V266	G266
S1316	MET	SER	LEU	MET	GLU	P955	F883	T816	S754	LYS	S631	I556	P490	R283	V266	G266
D1317	ALA	THR	GLY	VAL	GLN	D956	N883	D817	W755	ARG	G634	I556	P490	R283	V266	G266
G1318	PHE	GLY	SER	ALA	TRP	T957	N884	L818	W756	ALA	L634	N558	V492	R415	V266	G266
G1319	GLN	ARG	LYS	GLY	GLU	V958	N885	Q819	W757	LYS	N635	P559	G493	Q343	V266	G266
K1320	ALA	ASP	THR	ILE	THR	I959	P886	N820	W758	THR	T636	G560	R494	Q344	V266	G266
A1321	LEU	HIS	ILE	SER	LEU	E960	L887	P821	T759	ILE	K637	G560	R495	P356	V266	G266
T1322	ALA	TRP	CYS	HIS	GLY	T961	S888	Y822	L762	GLU	K638	M563	P496	G357	V266	G266
T1324	TYR	GLU	ASP	GLU	ILE	K962	Q889	V824	L763	GLY	L639	K564	R497	P359	V266	G266
I1325	GLU	TYR	TYR	ILE	ASN	I964	L891	V825	E764	ASP	A641	L567	Q501	V364	V266	G266
L1326	ILE	ASN	VAL	CYS	ARG	I965	N896	K826	E765	ALA	A642	L567	Q501	V364	V266	G266
T1327	GLN	ALA	ASN	GLY	THR	G967	K897	E828	P766	CYS	K643	D570	L503	Y365	V266	G266
F1328	PRO	HIS	SER	VAL	GLU	D968	A898	Q829	Q769	ALA	Q646	R574	T505	D370	V266	G266
N1330	THR	HIS	ASP	ARG	ALA	P969	N899	V830	G770	ALA	P647	R574	T505	D370	V266	G266
A1331	ILE	ASN	SER	TRP	ASN	VAL	Q901	E831	I771	PHE	A648	L577	N507	P373	V266	G266
Q1332	GLU	ILE	LEU	LEU	GLN	ALA	E902	T832	S772	LEU	ASN	L577	N507	P373	V266	G266
L1273	GLY	GLU	ILE	ILE	ILE	GLN	A903	R833	S773	GLU	ARG	V580	L508	H376	V266	G266
N1274	THR	THR	LYS	LEU	VAL	ILE	A834	A834	K774	CYS	ARG	D581	L510	V377	V266	G266
D1275	THR	THR	LYS	ASN	THR	ILE	T835	T835	T775	CYS	ARG	D581	L510	V377	V266	G266
L1276	SER	SER	ALA	ARG	GLY	GLU	K911	K911	T775	THR	ARG	K582	T511	V379	V266	G266
I1277	THR	THR	THR	ALA	THR	ASN	L913	L836	M776	ARG	ARG	A583	P612	V380	V266	G266
T1278	ALA	ALA	ASN	GLN	ALA	SER	K914	N838	S777	TYR	SER	V584	D513	V380	V266	G266
I1279	LEU	LEU	TYR	GLN	ALA	ILE	V915	Y839	F778	ILE	SER	V585	L514	V447	V266	G266
E1280	LEU	LEU	ASP	ASP	GLN	ILE	V916	Y839	F779	LYS	VAL	V586	L515	V448	V266	G266
L1281	ALA	ALA	GLY	GLY	MET	GLY	P917	N841	L780	GLY	LEU	V587	F518	T449	V266	G266
P1282	LEU	LEU	LYS	ALA	VAL	SER	E918	E842	D782	VAL	LEU	N588	R519	T450	V266	G266
D1283	LEU	LYS	LYS	PHE	THR	LYS	G919	D843	S783	ASP	LEU	N588	R519	T450	V266	G266
H1344	LYS	LYS	TYR	LYS	THR	LYS	V920	T844	I784	GLU	SER	V593	F520	K455	V266	G266
E1285	MET	LYS	GLU	GLU	LYS	ASN	G921	Y845	T785	ASN	SER	S594	F520	K455	V266	G266
R1346	LYS	LYS	LYS	ASN	ALA	HIS	R922	V846	T786	GLN	ASN	Q595	A522	D458	V266	G266
V1287	LEU	LEU	LEU	ALA	ASP	ILE	S923	R847	W787	ALA	ALA	A596	Y523	N459	V266	G266
I1288	PHE	PHE	GLN	PRO	HIS	ILE	T924	V848	V788	GLU	LYS	I598	Q525	P461	V266	G266





4 Data and refinement statistics

Property	Value	Source
Space group	P 2 2 21	Depositor
Cell constants a, b, c, α , β , γ	176.52Å 179.20Å 389.69Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	49.47 – 4.30 49.47 – 4.30	Depositor EDS
% Data completeness (in resolution range)	94.2 (49.47-4.30) 94.3 (49.47-4.30)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	0.14	Depositor
$\langle I/\sigma(I) \rangle$ ¹	3.12 (at 4.29Å)	Xtriage
Refinement program	PHENIX (phenix.refine: 1.6.4_486)	Depositor
R, R_{free}	0.233 , 0.262 0.221 , 0.249	Depositor DCC
R_{free} test set	1732 reflections (2.17%)	DCC
Wilson B-factor (Å ²)	135.2	Xtriage
Anisotropy	0.503	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.30 , 172.4	EDS
L-test for twinning ²	$\langle L \rangle = 0.48$, $\langle L^2 \rangle = 0.31$	Xtriage
Estimated twinning fraction	0.026 for k,h,-l	Xtriage
F_o, F_c correlation	0.90	EDS
Total number of atoms	45268	wwPDB-VP
Average B, all atoms (Å ²)	192.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 2.37% 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

5.1 Standard geometry

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

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	0.57	1/13158 (0.0%)	0.77	6/17851 (0.0%)
1	C	0.58	0/13158	0.76	5/17851 (0.0%)
2	B	0.55	0/9912	0.74	1/13454 (0.0%)
2	D	0.55	0/9912	0.74	2/13454 (0.0%)
All	All	0.57	1/46140 (0.0%)	0.75	14/62610 (0.0%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
1	A	0	3
1	C	0	3
2	B	0	1
2	D	0	1
All	All	0	8

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	810	CYS	CB-SG	-5.27	1.73	1.81

All (14) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	1539	LEU	CA-CB-CG	6.88	131.12	115.30
1	A	1539	LEU	CA-CB-CG	6.87	131.10	115.30
1	A	1195	LEU	CA-CB-CG	-6.42	100.53	115.30
1	C	1195	LEU	CA-CB-CG	-6.27	100.87	115.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	1346	ASN	CA-CB-CG	5.54	125.58	113.40
2	D	1346	ASN	CA-CB-CG	5.53	125.56	113.40
1	A	1000	LEU	CA-CB-CG	-5.35	102.99	115.30
1	A	181	GLY	N-CA-C	5.32	126.40	113.10
1	A	1105	LEU	CA-CB-CG	-5.28	103.16	115.30
2	D	1492	CYS	CA-CB-SG	-5.22	104.59	114.00
1	C	982	LEU	CA-CB-CG	-5.19	103.36	115.30
1	C	1000	LEU	CA-CB-CG	-5.19	103.37	115.30
1	A	982	LEU	CA-CB-CG	-5.17	103.40	115.30
1	C	181	GLY	N-CA-C	5.09	125.83	113.10

There are no chirality outliers.

All (8) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	472	ASN	Peptide
1	A	552	ALA	Peptide
1	A	667	GLU	Peptide
2	B	1351	ASN	Peptide
1	C	472	ASN	Peptide
1	C	552	ALA	Peptide
1	C	667	GLU	Peptide
2	D	1351	ASN	Peptide

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	12881	0	12821	1676	0
1	C	12881	0	12821	1666	0
2	B	9711	0	9702	1046	0
2	D	9711	0	9702	1061	0
3	A	14	0	13	2	0
3	B	28	0	26	1	0
3	C	14	0	13	2	0
3	D	28	0	26	1	0
All	All	45268	0	45124	5374	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 59.

All (5374) 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:D:380:VAL:HG12	2:D:387:MET:HB3	1.26	1.15
2:B:380:VAL:HG12	2:B:387:MET:HB3	1.24	1.15
2:D:1609:ARG:HH11	2:D:1609:ARG:HG2	1.12	1.13
1:A:386:VAL:H	1:A:411:THR:HG22	1.02	1.12
1:C:386:VAL:H	1:C:411:THR:HG22	1.00	1.11
2:D:261:ALA:HB2	2:D:320:VAL:HG23	1.30	1.11
2:B:1609:ARG:HG2	2:B:1609:ARG:HH11	1.13	1.10
1:A:1228:TRP:H	1:A:1251:THR:HG22	1.13	1.10
1:C:979:VAL:HG21	1:C:1326:TYR:CE1	1.85	1.10
1:A:59:TYR:CE2	1:A:99:VAL:HG21	1.85	1.09
1:A:1278:GLN:OE1	1:A:1283:GLY:HA2	1.49	1.09
1:A:1494:THR:HB	1:A:1506:THR:HG23	1.32	1.07
1:C:1278:GLN:OE1	1:C:1283:GLY:HA2	1.53	1.07
2:D:850:LEU:HB2	2:D:882:PHE:HE1	1.20	1.07
1:C:1228:TRP:H	1:C:1251:THR:HG22	1.12	1.06
2:B:261:ALA:HB2	2:B:320:VAL:HG23	1.36	1.05
2:B:851:LEU:HD23	2:B:852:TYR:H	1.18	1.05
1:A:979:VAL:HG21	1:A:1326:TYR:CE1	1.90	1.05
2:B:344:GLN:HA	2:B:344:GLN:HE21	1.19	1.04
1:C:1228:TRP:H	1:C:1251:THR:CG2	1.70	1.03
2:D:526:VAL:HG23	2:D:530:GLU:HB3	1.37	1.03
2:B:1473:HIS:CD2	2:B:1474:PRO:HD2	1.93	1.03
1:C:492:TYR:CD2	1:C:493:ILE:N	2.27	1.03
1:C:535:VAL:HG23	1:C:536:PRO:HD3	1.40	1.03
1:A:492:TYR:CD2	1:A:493:ILE:N	2.27	1.03
1:C:1494:THR:HB	1:C:1506:THR:HG23	1.39	1.03
1:C:1584:ILE:HG22	1:C:1585:TYR:H	1.24	1.03
1:C:59:TYR:CE2	1:C:99:VAL:HG21	1.92	1.03
2:B:526:VAL:HG23	2:B:530:GLU:HB3	1.39	1.02
1:C:42:GLN:HB2	1:C:80:GLN:HE21	1.24	1.02
2:B:1607:ILE:H	2:B:1607:ILE:HD12	1.22	1.02
1:A:535:VAL:HG23	1:A:536:PRO:HD3	1.40	1.02
2:B:1590:LEU:HD23	2:B:1591:LEU:H	1.21	1.02
1:A:42:GLN:HB2	1:A:80:GLN:HE21	1.25	1.01
1:A:224:LEU:HD22	1:A:225:PRO:HD2	1.39	1.01
1:C:24:VAL:CA	1:C:655:THR:HG21	1.88	1.01
1:A:1228:TRP:H	1:A:1251:THR:CG2	1.73	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:1473:HIS:CD2	2:D:1474:PRO:HD2	1.96	1.01
2:D:344:GLN:HA	2:D:344:GLN:HE21	1.18	1.01
2:D:1523:VAL:HG22	2:D:1584:TRP:HB2	1.39	1.01
1:C:87:ILE:H	1:C:87:ILE:HD13	1.23	1.00
1:C:1008:ALA:HB3	1:C:1078:LEU:HD11	1.40	1.00
1:C:222:TYR:HE1	1:C:768:TYR:HB2	1.25	1.00
1:A:1584:ILE:HG22	1:A:1585:TYR:H	1.27	1.00
1:A:87:ILE:HD13	1:A:87:ILE:H	1.21	1.00
1:C:24:VAL:HA	1:C:655:THR:CG2	1.89	1.00
2:D:851:LEU:HD23	2:D:852:TYR:H	1.21	1.00
1:A:44:TYR:HE1	1:A:497:THR:HG21	1.24	1.00
2:B:850:LEU:HB2	2:B:882:PHE:HE1	1.25	0.99
1:A:24:VAL:HA	1:A:655:THR:HG21	1.02	0.99
1:A:24:VAL:HA	1:A:655:THR:CG2	1.91	0.99
1:C:831:TYR:O	1:C:928:ARG:HD2	1.63	0.99
1:A:1056:ILE:HD11	1:A:1066:TYR:HE2	1.25	0.99
1:A:24:VAL:CA	1:A:655:THR:HG21	1.91	0.99
2:B:548:LEU:HD22	2:B:793:SER:HB3	1.43	0.99
1:A:222:TYR:HE1	1:A:768:TYR:HB2	1.28	0.99
1:A:831:TYR:O	1:A:928:ARG:HD2	1.62	0.99
2:D:548:LEU:HD22	2:D:793:SER:HB3	1.42	0.99
1:A:576:SER:HB3	1:A:577:PRO:HD3	1.44	0.98
2:D:1607:ILE:H	2:D:1607:ILE:HD12	1.28	0.98
1:C:386:VAL:N	1:C:411:THR:HG22	1.76	0.98
1:A:1008:ALA:HB3	1:A:1078:LEU:HD11	1.44	0.97
1:C:111:PHE:HE2	1:C:113:LYS:HB2	1.26	0.97
2:D:556:ILE:H	2:D:556:ILE:HD12	1.26	0.97
1:C:224:LEU:HD22	1:C:225:PRO:HD2	1.42	0.97
1:C:682:LYS:HZ2	1:C:686:ILE:HD11	1.28	0.97
1:A:1068:VAL:HA	1:A:1078:LEU:HD12	1.47	0.97
1:C:24:VAL:HA	1:C:655:THR:HG21	1.00	0.97
1:C:1056:ILE:HD11	1:C:1066:TYR:HE2	1.27	0.97
1:A:44:TYR:HB2	1:A:545:ILE:HD12	1.47	0.97
2:B:531:ILE:HD11	2:B:634:LEU:HD23	1.42	0.97
1:C:44:TYR:HB2	1:C:545:ILE:HD12	1.47	0.97
1:A:386:VAL:N	1:A:411:THR:HG22	1.79	0.96
2:D:1590:LEU:HD23	2:D:1591:LEU:H	1.27	0.96
2:B:556:ILE:H	2:B:556:ILE:HD12	1.29	0.96
1:C:576:SER:HB3	1:C:577:PRO:HD3	1.44	0.96
1:A:111:PHE:HE2	1:A:113:LYS:HB2	1.27	0.96
2:B:1523:VAL:HG22	2:B:1584:TRP:HB2	1.47	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:421:VAL:HG11	2:B:505:THR:HG22	1.47	0.96
1:C:386:VAL:H	1:C:411:THR:CG2	1.78	0.96
2:D:531:ILE:HD11	2:D:634:LEU:HD23	1.46	0.96
1:C:44:TYR:HE1	1:C:497:THR:HG21	1.28	0.95
1:C:236:ASN:HB2	1:C:379:LEU:HD21	1.48	0.95
2:D:954:VAL:HB	2:D:957:THR:HG21	1.47	0.95
1:A:853:MET:O	1:A:888:VAL:HG12	1.66	0.95
1:C:395:ILE:HG22	1:C:401:THR:HG22	1.49	0.95
2:D:1284:ARG:CD	2:D:1285:GLU:H	1.80	0.95
1:A:395:ILE:HG22	1:A:401:THR:HG22	1.49	0.95
1:A:386:VAL:H	1:A:411:THR:CG2	1.79	0.95
1:A:702:GLY:HA2	1:A:728:PHE:CE1	2.02	0.94
1:C:330:ILE:HG22	1:C:337:SER:HB2	1.46	0.94
1:C:1068:VAL:HA	1:C:1078:LEU:HD12	1.48	0.94
1:C:1228:TRP:N	1:C:1251:THR:HG22	1.82	0.94
2:B:1284:ARG:CD	2:B:1285:GLU:H	1.81	0.94
1:C:111:PHE:CE2	1:C:113:LYS:HB2	2.02	0.94
1:A:1012:LEU:HD22	1:A:1085:VAL:HG21	1.49	0.94
1:A:236:ASN:HB2	1:A:379:LEU:HD21	1.47	0.94
1:C:145:VAL:HB	1:C:183:ILE:HD12	1.49	0.94
2:D:1450:PHE:HD1	2:D:1451:ILE:H	1.12	0.94
2:B:120:LEU:HD12	2:B:121:LEU:H	1.30	0.94
2:B:1610:TRP:HA	2:B:1628:PHE:HE2	1.33	0.94
2:B:481:TYR:HB2	2:B:520:PHE:HE1	1.30	0.94
2:D:1610:TRP:HA	2:D:1628:PHE:HE2	1.33	0.94
2:D:787:TRP:HB2	2:D:808:ILE:HG22	1.49	0.94
1:A:1585:TYR:HD1	1:A:1671:ILE:HG12	1.33	0.94
1:A:653:PHE:O	1:A:653:PHE:HD1	1.51	0.94
1:C:1585:TYR:HD1	1:C:1671:ILE:HG12	1.33	0.94
1:A:1615:ARG:HH21	1:A:1650:ARG:HH22	1.09	0.93
1:A:374:GLN:HA	1:A:416:GLY:O	1.68	0.93
1:C:853:MET:O	1:C:888:VAL:HG12	1.67	0.93
2:B:1273:LEU:HB2	2:B:1319:GLY:HA3	1.51	0.93
2:B:1491:ARG:HG3	2:B:1492:CYS:H	1.33	0.93
2:D:265:PHE:CD2	2:D:294:LEU:HB2	2.03	0.93
1:A:682:LYS:NZ	1:A:686:ILE:HD11	1.84	0.93
2:B:787:TRP:HB2	2:B:808:ILE:HG22	1.50	0.93
2:B:285:ILE:HD12	2:B:285:ILE:H	1.32	0.92
1:A:1056:ILE:HD11	1:A:1066:TYR:CE2	2.04	0.92
1:A:135:TYR:CZ	1:A:141:VAL:HG13	2.05	0.92
2:D:120:LEU:HD12	2:D:121:LEU:H	1.30	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1607:ILE:N	2:B:1607:ILE:HD12	1.85	0.92
2:B:510:ILE:HG23	2:B:514:LEU:HD12	1.52	0.92
2:B:954:VAL:HB	2:B:957:THR:HG21	1.51	0.92
2:D:1273:LEU:HB2	2:D:1319:GLY:HA3	1.51	0.92
2:D:510:ILE:HG23	2:D:514:LEU:HD12	1.50	0.92
1:C:1585:TYR:CD1	1:C:1671:ILE:HG12	2.05	0.92
2:D:1491:ARG:HG3	2:D:1492:CYS:H	1.35	0.92
1:A:371:ILE:HD11	1:A:433:PHE:CE2	2.04	0.91
1:C:1615:ARG:HH21	1:C:1650:ARG:HH22	1.06	0.91
2:D:285:ILE:HD12	2:D:285:ILE:H	1.33	0.91
1:A:145:VAL:HB	1:A:183:ILE:HD12	1.51	0.91
1:A:884:VAL:O	1:A:885:ARG:HB2	1.67	0.91
1:C:135:TYR:CZ	1:C:141:VAL:HG13	2.06	0.91
1:C:222:TYR:CE1	1:C:768:TYR:HB2	2.04	0.91
1:A:351:PRO:HG2	1:A:352:TYR:CD2	2.06	0.91
1:C:489:LYS:C	1:C:491:PRO:HD3	1.91	0.91
2:B:1424:ILE:H	2:B:1424:ILE:HD13	1.34	0.91
1:C:493:ILE:HG22	1:C:495:LYS:H	1.36	0.91
2:D:197:TRP:HB2	2:D:214:PHE:CE1	2.05	0.91
1:A:330:ILE:HG22	1:A:337:SER:HB2	1.51	0.91
2:B:1450:PHE:HD1	2:B:1451:ILE:H	1.13	0.91
1:A:111:PHE:CE2	1:A:113:LYS:HB2	2.06	0.91
1:A:1404:ALA:HB1	1:A:1493:PHE:CE2	2.06	0.91
2:B:435:TYR:HD1	2:B:436:GLN:H	0.94	0.91
1:C:371:ILE:HD11	1:C:433:PHE:CE2	2.06	0.91
1:C:702:GLY:HA2	1:C:728:PHE:CE1	2.06	0.91
2:D:42:LEU:HD11	2:D:82:LEU:HD12	1.52	0.91
1:A:1228:TRP:N	1:A:1251:THR:HG22	1.85	0.90
1:A:489:LYS:C	1:A:491:PRO:HD3	1.91	0.90
2:B:239:GLY:H	2:B:296:ARG:NH2	1.69	0.90
1:C:682:LYS:NZ	1:C:686:ILE:HD11	1.85	0.90
2:B:646:GLN:HB3	2:B:647:PRO:HD2	1.51	0.90
2:D:239:GLY:H	2:D:296:ARG:NH2	1.69	0.90
1:A:1585:TYR:CD1	1:A:1671:ILE:HG12	2.07	0.90
2:B:481:TYR:O	2:B:481:TYR:HD2	1.54	0.90
1:C:374:GLN:HA	1:C:416:GLY:O	1.72	0.90
1:A:60:PRO:HD2	1:A:61:ASP:H	1.36	0.90
1:A:222:TYR:CE1	1:A:768:TYR:HB2	2.06	0.90
1:A:423:ASN:HB3	2:B:501:GLN:NE2	1.86	0.90
1:A:702:GLY:HA2	1:A:728:PHE:HE1	1.37	0.90
2:B:1331:ALA:O	2:B:1332:GLN:HB3	1.70	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:482:LEU:HB3	2:B:492:VAL:HG23	1.54	0.90
1:A:500:ASN:OD1	1:A:514:THR:HG23	1.71	0.89
1:C:888:VAL:HG23	1:C:894:HIS:HB2	1.52	0.89
2:D:481:TYR:HB2	2:D:520:PHE:HE1	1.36	0.89
1:C:884:VAL:O	1:C:885:ARG:HB2	1.70	0.89
2:D:435:TYR:HD1	2:D:436:GLN:H	0.94	0.89
1:A:884:VAL:HG12	1:A:886:GLN:HG2	1.52	0.89
1:A:849:ARG:HH11	1:A:849:ARG:HG3	1.37	0.89
2:B:927:ILE:HG23	2:B:1324:THR:HG23	1.54	0.89
1:A:493:ILE:HG22	1:A:495:LYS:H	1.36	0.89
1:A:584:PRO:HB3	1:A:792:ASP:HA	1.54	0.89
1:C:539:ARG:NH2	1:C:634:CYS:H	1.69	0.89
2:D:1424:ILE:HD13	2:D:1424:ILE:H	1.36	0.89
2:D:964:ILE:HG13	2:D:1302:THR:HG23	1.55	0.89
1:C:1056:ILE:HD11	1:C:1066:TYR:CE2	2.07	0.89
1:C:584:PRO:HB3	1:C:792:ASP:HA	1.54	0.89
2:D:435:TYR:HD1	2:D:436:GLN:N	1.69	0.89
2:D:850:LEU:HB2	2:D:882:PHE:CE1	2.08	0.89
2:D:646:GLN:HB3	2:D:647:PRO:HD2	1.52	0.89
2:B:42:LEU:HD11	2:B:82:LEU:HD12	1.51	0.89
2:D:1607:ILE:N	2:D:1607:ILE:HD12	1.88	0.89
2:B:265:PHE:CD2	2:B:294:LEU:HB2	2.08	0.88
1:C:653:PHE:HD1	1:C:653:PHE:O	1.56	0.88
2:D:482:LEU:HB3	2:D:492:VAL:HG23	1.55	0.88
1:A:490:SER:N	1:A:491:PRO:CD	2.36	0.88
1:C:1086:LEU:HD12	1:C:1095:GLN:HG3	1.55	0.88
1:C:470:THR:HG22	2:D:450:THR:HG22	1.55	0.88
1:C:60:PRO:HD2	1:C:61:ASP:H	1.38	0.88
1:C:849:ARG:HH11	1:C:849:ARG:HG3	1.37	0.88
1:C:1315:VAL:HG12	1:C:1324:HIS:O	1.72	0.88
2:D:161:VAL:HG21	2:D:180:LEU:HD21	1.55	0.88
2:D:221:LEU:HD11	2:D:753:LYS:HG2	1.55	0.88
2:D:218:LYS:HB3	2:D:822:TYR:CD2	2.08	0.88
2:D:850:LEU:HG	2:D:851:LEU:N	1.89	0.88
1:A:1102:ASN:HD21	1:C:1162:VAL:H	1.20	0.88
2:B:435:TYR:HD1	2:B:436:GLN:N	1.70	0.87
2:D:415:THR:HG1	2:D:425:GLN:HB3	1.39	0.87
1:C:174:VAL:HG22	1:C:175:GLU:H	1.40	0.87
1:C:351:PRO:HG2	1:C:352:TYR:CD2	2.10	0.87
1:A:250:ILE:HD11	1:A:265:VAL:HG11	1.56	0.87
1:C:1012:LEU:HD22	1:C:1085:VAL:HG21	1.57	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1162:VAL:HG22	1:C:1102:ASN:ND2	1.89	0.87
2:D:481:TYR:O	2:D:481:TYR:HD2	1.57	0.87
1:A:979:VAL:HG12	1:A:1359:VAL:HG22	1.55	0.87
1:A:1162:VAL:H	1:C:1102:ASN:HD21	1.16	0.87
1:A:1627:ILE:HD12	1:A:1629:TYR:HB3	1.57	0.87
1:A:869:GLU:C	1:A:871:PRO:HD3	1.95	0.87
2:B:221:LEU:HD11	2:B:753:LYS:HG2	1.56	0.87
1:C:127:PHE:HE2	1:C:623:VAL:HG13	1.39	0.87
1:C:614:ARG:HD2	1:C:615:GLY:H	1.39	0.87
2:D:1331:ALA:O	2:D:1332:GLN:HB3	1.70	0.87
1:A:362:PHE:HE1	1:A:640:LEU:HD22	1.39	0.86
1:A:614:ARG:HD2	1:A:615:GLY:H	1.41	0.86
2:B:948:ARG:HH21	2:B:948:ARG:HB2	1.40	0.86
1:C:869:GLU:C	1:C:871:PRO:HD3	1.95	0.86
2:B:192:VAL:HG22	2:B:193:SER:H	1.39	0.86
1:C:884:VAL:HG12	1:C:886:GLN:HG2	1.55	0.86
1:A:999:ILE:HG13	1:A:1000:LEU:H	1.41	0.86
1:C:182:ILE:HG12	1:C:804:ILE:HD11	1.58	0.86
1:C:490:SER:N	1:C:491:PRO:CD	2.38	0.86
1:A:796:THR:HG23	1:A:818:LYS:HB3	1.55	0.86
1:C:504:LEU:HD21	1:C:651:LEU:HG	1.57	0.86
1:C:430:VAL:HG11	1:C:453:ARG:HH21	1.41	0.86
2:B:161:VAL:HG21	2:B:180:LEU:HD21	1.57	0.86
1:A:162:THR:HG21	1:A:204:LYS:HE2	1.56	0.86
1:A:1086:LEU:HD12	1:A:1095:GLN:HG3	1.57	0.85
2:B:850:LEU:HG	2:B:851:LEU:N	1.91	0.85
2:D:508:LEU:HD12	2:D:509:HIS:H	1.40	0.85
1:A:504:LEU:HD21	1:A:651:LEU:HG	1.57	0.85
2:B:415:THR:HG1	2:B:425:GLN:HB3	1.38	0.85
1:C:1144:LEU:O	1:C:1148:THR:HG23	1.75	0.85
1:A:1549:LYS:NZ	1:A:1667:PHE:HB3	1.90	0.85
1:A:967:LEU:HD12	1:A:968:VAL:N	1.91	0.85
2:D:44:GLU:HG2	2:D:82:LEU:HB2	1.58	0.85
2:B:218:LYS:HB3	2:B:822:TYR:CD2	2.10	0.85
1:C:250:ILE:HD11	1:C:265:VAL:HG11	1.58	0.85
1:A:174:VAL:HG22	1:A:175:GLU:H	1.41	0.85
1:A:979:VAL:HG21	1:A:1326:TYR:HE1	1.36	0.85
1:A:539:ARG:NH2	1:A:634:CYS:H	1.72	0.85
1:A:1278:GLN:OE1	1:A:1283:GLY:CA	2.25	0.85
1:C:44:TYR:CE1	1:C:497:THR:HG21	2.12	0.85
1:A:471:ASP:OD2	1:A:474:LYS:HB3	1.76	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:44:GLU:HG2	2:B:82:LEU:HB2	1.57	0.85
2:D:114:ARG:O	2:D:115:LEU:HD23	1.76	0.85
1:A:470:THR:HG22	2:B:450:THR:HG22	1.57	0.84
1:C:1490:PRO:HB3	1:C:1510:SER:HB2	1.58	0.84
1:A:1315:VAL:HG12	1:A:1324:HIS:O	1.77	0.84
1:A:623:VAL:HG12	1:A:624:PHE:N	1.92	0.84
1:C:623:VAL:HG12	1:C:624:PHE:N	1.92	0.84
1:C:982:LEU:H	1:C:982:LEU:HD12	1.41	0.84
2:D:1450:PHE:CD1	2:D:1451:ILE:N	2.45	0.84
2:D:948:ARG:HB2	2:D:948:ARG:HH21	1.43	0.84
1:A:1109:GLU:HG2	1:C:1163:LYS:HZ1	1.41	0.84
1:A:44:TYR:CE1	1:A:497:THR:HG21	2.10	0.84
2:D:1561:HIS:CE1	2:D:1597:ILE:HD13	2.12	0.84
1:A:1576:LYS:HG2	1:A:1601:ILE:HG22	1.58	0.84
1:A:888:VAL:HG23	1:A:894:HIS:HB2	1.57	0.84
1:C:471:ASP:OD2	1:C:474:LYS:HB3	1.77	0.84
1:C:999:ILE:HG13	1:C:1000:LEU:H	1.42	0.84
1:A:830:PRO:HG3	1:A:1483:PHE:CZ	2.13	0.84
1:A:1490:PRO:HB3	1:A:1510:SER:HB2	1.58	0.84
1:C:1068:VAL:HG21	1:C:1124:TYR:CD1	2.13	0.84
1:A:113:LYS:HG2	1:A:114:SER:H	1.41	0.84
1:C:979:VAL:HG21	1:C:1326:TYR:HE1	1.33	0.84
2:D:482:LEU:HD12	2:D:482:LEU:H	1.43	0.84
1:A:87:ILE:HD13	1:A:87:ILE:N	1.91	0.84
1:C:476:LEU:HD21	1:C:482:LEU:HD12	1.57	0.84
1:A:489:LYS:HZ3	2:B:502:ASN:H	1.24	0.84
1:C:796:THR:HG23	1:C:818:LYS:HB3	1.58	0.84
2:D:1274:ASN:ND2	2:D:1293:ASN:HB3	1.93	0.84
2:B:482:LEU:H	2:B:482:LEU:HD12	1.43	0.83
1:C:549:GLU:H	1:C:549:GLU:CD	1.80	0.83
1:A:546:VAL:O	1:A:553:GLU:HB3	1.78	0.83
1:C:1383:THR:HG21	1:C:1511:THR:HG22	1.60	0.83
1:C:889:GLU:HB2	1:C:892:SER:HB2	1.59	0.83
1:A:127:PHE:HE2	1:A:623:VAL:HG13	1.42	0.83
1:C:1127:ILE:HD12	1:C:1127:ILE:H	1.44	0.83
1:C:467:ILE:HG22	1:C:486:VAL:HG22	1.60	0.83
1:C:113:LYS:HG2	1:C:114:SER:H	1.44	0.83
1:C:830:PRO:HG3	1:C:1483:PHE:CZ	2.12	0.83
1:A:265:VAL:HG22	1:A:329:VAL:HG22	1.61	0.83
2:B:964:ILE:HG13	2:B:1302:THR:HG23	1.60	0.83
1:C:87:ILE:N	1:C:87:ILE:HD13	1.93	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1576:LYS:HG2	1:C:1601:ILE:HG22	1.60	0.83
1:A:884:VAL:CG1	1:A:886:GLN:HG2	2.08	0.83
1:C:131:ASP:HB3	1:C:142:LYS:HB2	1.60	0.83
1:C:1370:THR:HG23	1:C:1373:GLU:OE1	1.79	0.83
1:A:42:GLN:HB2	1:A:80:GLN:NE2	1.93	0.83
2:B:1274:ASN:ND2	2:B:1293:ASN:HB3	1.94	0.83
2:B:285:ILE:HD12	2:B:285:ILE:N	1.94	0.83
1:C:42:GLN:HB2	1:C:80:GLN:NE2	1.93	0.83
2:B:508:LEU:HD12	2:B:509:HIS:H	1.44	0.83
1:C:1320:LYS:HD2	1:C:1321:GLY:H	1.42	0.83
1:C:1549:LYS:NZ	1:C:1667:PHE:HB3	1.93	0.83
1:C:162:THR:HG21	1:C:204:LYS:HE2	1.58	0.83
1:C:546:VAL:O	1:C:553:GLU:HB3	1.78	0.83
1:A:491:PRO:HG2	1:A:494:ASP:HB3	1.60	0.82
2:D:344:GLN:HA	2:D:344:GLN:NE2	1.93	0.82
1:A:1127:ILE:HD12	1:A:1127:ILE:H	1.44	0.82
1:A:955:ARG:HG2	1:A:1350:THR:HG23	1.60	0.82
1:A:549:GLU:CD	1:A:549:GLU:H	1.81	0.82
1:A:838:GLN:HA	1:A:901:LEU:HB2	1.59	0.82
2:B:25:TYR:HB2	2:B:631:SER:HB3	1.60	0.82
1:C:443:PRO:HD2	1:C:446:ASN:HB2	1.61	0.82
1:A:905:ILE:HD12	1:A:931:PRO:HD3	1.61	0.82
2:B:476:ILE:O	2:B:497:ARG:HG2	1.78	0.82
1:A:153:LYS:HB2	1:A:154:PRO:HD2	1.58	0.82
1:C:153:LYS:HB2	1:C:154:PRO:HD2	1.60	0.82
1:C:905:ILE:HD12	1:C:931:PRO:HD3	1.60	0.82
1:A:1144:LEU:O	1:A:1148:THR:HG23	1.80	0.82
2:B:1561:HIS:CE1	2:B:1597:ILE:HD13	2.14	0.82
1:C:362:PHE:HE1	1:C:640:LEU:HD22	1.44	0.82
1:C:967:LEU:HD12	1:C:968:VAL:N	1.94	0.82
1:C:743:SER:HB2	1:C:751:ARG:N	1.95	0.82
1:A:238:ILE:HG23	1:A:242:ASN:HD22	1.41	0.82
2:B:1450:PHE:CD1	2:B:1451:ILE:N	2.47	0.82
1:A:1068:VAL:HG21	1:A:1124:TYR:CD1	2.13	0.82
1:A:1320:LYS:HD2	1:A:1321:GLY:H	1.43	0.82
1:C:1561:TYR:CD1	1:C:1581:LEU:HD21	2.14	0.82
1:A:1561:TYR:CD1	1:A:1581:LEU:HD21	2.14	0.82
1:C:979:VAL:HG12	1:C:1359:VAL:HG22	1.60	0.82
1:A:1626:GLN:HB2	1:A:1635:TYR:HD1	1.44	0.82
1:A:857:VAL:HG23	1:A:884:VAL:HG21	1.59	0.82
1:C:1402:ILE:HG13	1:C:1479:ILE:HD12	1.59	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1533:GLY:O	1:A:1534:GLN:HB3	1.80	0.81
1:C:1278:GLN:OE1	1:C:1283:GLY:CA	2.28	0.81
1:C:35:ALA:O	1:C:86:THR:HG22	1.80	0.81
1:C:491:PRO:HG2	1:C:494:ASP:HB3	1.60	0.81
2:D:818:LEU:HD21	2:D:820:MET:HE3	1.61	0.81
2:B:339:VAL:HG23	2:B:341:SER:H	1.46	0.81
1:C:160:VAL:HG22	1:C:175:GLU:HB3	1.61	0.81
1:C:857:VAL:HG23	1:C:884:VAL:HG21	1.62	0.81
1:A:1383:THR:HG21	1:A:1511:THR:HG22	1.63	0.81
1:C:702:GLY:HA2	1:C:728:PHE:HE1	1.45	0.81
2:D:1284:ARG:CG	2:D:1285:GLU:H	1.94	0.81
2:D:745:ILE:CG2	2:D:897:LYS:HD3	2.11	0.81
1:A:375:VAL:O	1:A:383:VAL:HG13	1.80	0.81
1:A:773:TRP:HZ3	1:A:788:PHE:CE1	1.98	0.81
1:A:936:ARG:HG3	1:A:936:ARG:HH11	1.44	0.81
1:A:944:LEU:HD12	1:A:1313:ILE:HD11	1.63	0.81
1:A:982:LEU:HD12	1:A:982:LEU:H	1.44	0.81
2:B:344:GLN:HA	2:B:344:GLN:NE2	1.94	0.81
1:C:42:GLN:HG2	1:C:43:VAL:H	1.45	0.81
2:D:339:VAL:HG23	2:D:341:SER:H	1.46	0.81
1:A:182:ILE:HG12	1:A:804:ILE:HD11	1.62	0.81
1:A:520:ASP:OD2	2:B:404:LEU:HB2	1.81	0.81
1:A:113:LYS:HG2	1:A:114:SER:N	1.96	0.81
1:A:753:HIS:O	1:A:754:MET:HB3	1.81	0.81
2:B:294:LEU:HD12	2:B:295:LYS:N	1.95	0.81
1:C:1570:VAL:HA	1:C:1574:PHE:O	1.79	0.81
2:D:422:ARG:HD3	2:D:422:ARG:H	1.45	0.81
1:A:1590:ALA:HB1	1:A:1635:TYR:CE1	2.16	0.81
2:B:850:LEU:HB2	2:B:882:PHE:CE1	2.14	0.81
1:C:838:GLN:HA	1:C:901:LEU:HB2	1.62	0.81
1:A:1370:THR:HG23	1:A:1373:GLU:OE1	1.81	0.81
1:C:1623:GLU:HB2	1:C:1638:PRO:HG2	1.63	0.81
1:C:917:TRP:HB3	2:D:558:MET:SD	2.21	0.81
1:A:160:VAL:HG22	1:A:175:GLU:HB3	1.61	0.81
1:A:1549:LYS:HZ1	1:A:1667:PHE:HB3	1.44	0.81
1:A:309:GLU:HG2	1:A:310:LEU:H	1.44	0.81
1:A:889:GLU:HB2	1:A:892:SER:HB2	1.62	0.81
2:B:415:THR:OG1	2:B:425:GLN:HB3	1.81	0.81
1:C:1176:LEU:HD21	1:C:1195:LEU:CD2	2.10	0.81
1:C:309:GLU:HG2	1:C:310:LEU:H	1.43	0.81
2:B:481:TYR:HE1	2:B:506:MET:SD	2.04	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1404:ALA:HB1	1:C:1493:PHE:CE2	2.16	0.80
2:D:1347:VAL:HG22	2:D:1367:ILE:HG23	1.62	0.80
1:A:131:ASP:HB3	1:A:142:LYS:HB2	1.62	0.80
1:A:1620:MET:HB2	1:A:1644:TRP:HB3	1.64	0.80
1:C:1615:ARG:HH21	1:C:1650:ARG:NH2	1.79	0.80
1:C:753:HIS:O	1:C:754:MET:HB3	1.78	0.80
2:D:415:THR:OG1	2:D:425:GLN:HB3	1.81	0.80
1:A:1570:VAL:HA	1:A:1574:PHE:O	1.80	0.80
1:A:596:MET:HA	1:A:782:ARG:HG2	1.62	0.80
2:B:1284:ARG:HG3	2:B:1286:VAL:H	1.47	0.80
1:A:924:VAL:HG21	3:A:2003:NAG:H82	1.64	0.80
1:A:476:LEU:HD21	1:A:482:LEU:HD12	1.61	0.80
1:C:837:GLU:O	1:C:901:LEU:HD12	1.81	0.80
2:D:927:ILE:HG23	2:D:1324:THR:HG23	1.63	0.80
2:B:1506:ILE:HD12	2:B:1627:ASP:HB2	1.64	0.80
1:C:463:SER:HB3	1:C:491:PRO:HA	1.64	0.80
1:C:470:THR:HG22	2:D:450:THR:CG2	2.11	0.80
1:A:743:SER:HB2	1:A:751:ARG:N	1.96	0.80
1:C:969:PRO:HG3	1:C:1601:ILE:HD12	1.64	0.80
1:C:265:VAL:HG22	1:C:329:VAL:HG22	1.64	0.80
1:C:500:ASN:CB	1:C:543:TYR:CE1	2.65	0.80
1:A:1102:ASN:ND2	1:C:1162:VAL:H	1.79	0.80
1:A:35:ALA:O	1:A:86:THR:HG22	1.82	0.80
2:B:484:LEU:HB2	2:B:519:ARG:HB2	1.63	0.80
2:B:262:PHE:CE1	2:B:282:ARG:HG3	2.17	0.80
1:A:1152:ILE:HG21	1:A:1168:LEU:HD21	1.64	0.79
1:A:443:PRO:HD2	1:A:446:ASN:HB2	1.63	0.79
1:C:238:ILE:HG23	1:C:242:ASN:HD22	1.44	0.79
1:C:733:VAL:O	1:C:737:GLN:HG2	1.82	0.79
2:D:25:TYR:HB2	2:D:631:SER:HB3	1.63	0.79
1:A:1176:LEU:HD21	1:A:1195:LEU:CD2	2.12	0.79
1:C:884:VAL:CG1	1:C:886:GLN:HG2	2.11	0.79
2:D:563:MET:HG3	2:D:780:LEU:HD23	1.64	0.79
1:A:1244:THR:HG22	1:A:1247:MET:H	1.47	0.79
1:A:500:ASN:HB3	1:A:543:TYR:HE1	1.47	0.79
2:B:563:MET:SD	2:B:808:ILE:HD11	2.21	0.79
1:C:126:LEU:HD11	1:C:205:TYR:CE2	2.17	0.79
1:C:773:TRP:HZ3	1:C:788:PHE:CE1	2.00	0.79
2:D:164:GLU:HG2	2:D:175:SER:HB2	1.63	0.79
1:A:1309:LEU:HD11	1:A:1328:MET:HG3	1.64	0.79
1:A:315:LEU:HD13	1:A:317:ASP:HB2	1.62	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:961:THR:HG22	2:B:1327:THR:HG23	1.64	0.79
2:B:1393:ASP:HB2	2:B:1443:LEU:HD11	1.63	0.79
1:A:500:ASN:CB	1:A:543:TYR:CE1	2.65	0.79
2:B:422:ARG:HD3	2:B:422:ARG:H	1.46	0.79
1:C:1590:ALA:HB1	1:C:1635:TYR:CE1	2.18	0.79
2:D:285:ILE:N	2:D:285:ILE:HD12	1.96	0.79
2:D:294:LEU:HD12	2:D:295:LYS:N	1.98	0.79
1:C:1549:LYS:HZ1	1:C:1667:PHE:HB3	1.45	0.79
2:D:262:PHE:CE1	2:D:282:ARG:HG3	2.17	0.79
2:D:518:PHE:CE2	2:D:538:VAL:HB	2.18	0.79
1:A:492:TYR:CG	1:A:493:ILE:N	2.50	0.79
1:A:91:GLN:HA	1:A:91:GLN:OE1	1.77	0.79
1:C:1100:ILE:HG21	1:C:1158:ILE:HD12	1.65	0.79
1:C:924:VAL:HG21	3:C:2003:NAG:H82	1.65	0.79
1:C:596:MET:HA	1:C:782:ARG:HG2	1.64	0.79
1:A:430:VAL:HG11	1:A:453:ARG:HH21	1.46	0.78
2:D:476:ILE:O	2:D:497:ARG:HG2	1.82	0.78
1:A:837:GLU:O	1:A:901:LEU:HD12	1.83	0.78
1:A:1623:GLU:HB2	1:A:1638:PRO:HG2	1.66	0.78
2:B:83:VAL:C	2:B:85:PRO:HD3	2.03	0.78
1:C:1620:MET:HB2	1:C:1644:TRP:HB3	1.65	0.78
1:C:20:GLU:HG2	1:C:20:GLU:O	1.83	0.78
2:B:197:TRP:HB2	2:B:214:PHE:CE1	2.18	0.78
1:C:576:SER:HB2	1:C:589:SER:H	1.48	0.78
2:D:1482:ASN:HB2	2:D:1495:GLU:HG2	1.65	0.78
2:B:1347:VAL:HG22	2:B:1367:ILE:HG23	1.63	0.78
1:C:1186:PHE:HD1	1:C:1250:THR:HG22	1.49	0.78
2:D:476:ILE:HG23	2:D:476:ILE:O	1.82	0.78
1:A:489:LYS:NZ	2:B:502:ASN:H	1.82	0.78
2:D:1444:LYS:HE2	2:D:1447:GLU:HA	1.64	0.78
2:D:563:MET:SD	2:D:808:ILE:HD11	2.24	0.78
1:A:1411:SER:N	1:A:1414:GLU:HG3	1.99	0.78
2:B:165:PHE:CZ	2:B:199:ILE:HD11	2.19	0.78
1:C:500:ASN:HB2	1:C:543:TYR:CD1	2.19	0.78
1:C:506:LYS:HD2	1:C:536:PRO:HD2	1.66	0.78
1:C:91:GLN:HA	1:C:91:GLN:OE1	1.72	0.78
2:D:127:PHE:HE2	2:D:602:ILE:HG23	1.49	0.78
1:A:733:VAL:O	1:A:737:GLN:HG2	1.83	0.78
2:B:244:HIS:HB3	2:B:291:LYS:HD2	1.64	0.78
1:C:1244:THR:HG22	1:C:1247:MET:H	1.49	0.78
1:C:1627:ILE:HD12	1:C:1629:TYR:HB3	1.65	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:1614:ASP:O	2:D:1617:GLN:HG2	1.83	0.78
1:A:1109:GLU:HG2	1:C:1163:LYS:NZ	1.98	0.77
1:A:1153:ARG:HD2	1:A:1197:LEU:HB3	1.66	0.77
1:C:500:ASN:OD1	1:C:514:THR:HG23	1.83	0.77
2:D:563:MET:HB3	2:D:778:PHE:CE2	2.19	0.77
2:D:83:VAL:C	2:D:85:PRO:HD3	2.04	0.77
1:A:126:LEU:HD11	1:A:205:TYR:CE2	2.19	0.77
1:A:267:ILE:HD12	1:A:299:VAL:HG11	1.67	0.77
1:A:682:LYS:HZ3	1:A:686:ILE:HD11	1.47	0.77
2:B:1482:ASN:HB2	2:B:1495:GLU:HG2	1.66	0.77
1:C:1386:ILE:HG13	1:C:1387:GLU:H	1.50	0.77
1:C:1533:GLY:O	1:C:1534:GLN:HB3	1.83	0.77
1:C:315:LEU:HD13	1:C:317:ASP:HB2	1.64	0.77
2:D:484:LEU:HB2	2:D:519:ARG:HB2	1.66	0.77
1:A:1615:ARG:HH21	1:A:1650:ARG:NH2	1.83	0.77
2:B:1382:ILE:CD1	2:B:1458:VAL:HG22	2.14	0.77
1:A:1053:MET:HE2	1:A:1089:VAL:HG21	1.65	0.77
2:B:1444:LYS:HE2	2:B:1447:GLU:HA	1.65	0.77
2:D:961:THR:HG22	2:D:1327:THR:HG23	1.67	0.77
1:A:179:HIS:O	1:A:180:ILE:HG12	1.85	0.77
1:A:514:THR:O	1:A:515:ARG:HD3	1.84	0.77
2:B:518:PHE:CE2	2:B:538:VAL:HB	2.18	0.77
2:B:818:LEU:HD21	2:B:820:MET:HE3	1.67	0.77
1:A:1186:PHE:HD1	1:A:1250:THR:HG22	1.50	0.77
1:A:465:LEU:HG	1:A:466:TYR:N	2.00	0.77
2:B:1614:ASP:O	2:B:1617:GLN:HG2	1.84	0.77
1:C:1176:LEU:HD21	1:C:1195:LEU:HD22	1.67	0.77
1:C:365:PRO:HD2	1:C:464:TYR:CD2	2.19	0.77
1:C:365:PRO:HG2	1:C:464:TYR:CE2	2.20	0.77
1:C:465:LEU:HG	1:C:466:TYR:N	2.00	0.77
1:C:500:ASN:HB3	1:C:543:TYR:HE1	1.49	0.77
1:A:126:LEU:HD11	1:A:205:TYR:CZ	2.20	0.77
1:C:1645:ILE:O	1:C:1646:GLU:HG3	1.83	0.77
1:C:773:TRP:CE3	1:C:774:LEU:HB2	2.20	0.77
1:A:23:TYR:CD1	1:A:23:TYR:N	2.46	0.77
1:A:362:PHE:CE1	1:A:640:LEU:HD22	2.19	0.77
2:B:462:VAL:HG21	2:B:520:PHE:HE2	1.48	0.77
2:D:194:LEU:CD1	2:D:217:ARG:HA	2.15	0.77
1:A:488:PRO:HG3	1:A:499:TYR:OH	1.84	0.77
1:C:135:TYR:CE1	1:C:141:VAL:HA	2.19	0.77
1:C:1411:SER:N	1:C:1414:GLU:HG3	2.00	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:576:SER:HB2	1:A:589:SER:H	1.49	0.76
1:C:144:ARG:HD2	1:C:146:TYR:CE1	2.20	0.76
1:C:1623:GLU:CB	1:C:1638:PRO:HG2	2.15	0.76
2:D:462:VAL:HG21	2:D:520:PHE:HE2	1.48	0.76
2:D:221:LEU:CD1	2:D:753:LYS:HG2	2.15	0.76
1:A:1213:LYS:HG2	1:A:1266:TYR:HE2	1.49	0.76
1:C:1176:LEU:HB3	1:C:1204:GLN:HG2	1.68	0.76
1:C:375:VAL:O	1:C:383:VAL:HG13	1.84	0.76
1:C:25:ILE:H	1:C:655:THR:CG2	1.97	0.76
1:A:1176:LEU:HD21	1:A:1195:LEU:HD22	1.67	0.76
1:A:42:GLN:HG2	1:A:43:VAL:H	1.49	0.76
2:B:1284:ARG:CG	2:B:1285:GLU:H	1.98	0.76
1:C:492:TYR:CG	1:C:493:ILE:N	2.50	0.76
1:C:493:ILE:CG2	1:C:495:LYS:HB2	2.14	0.76
2:D:518:PHE:HE2	2:D:538:VAL:HB	1.50	0.76
1:A:773:TRP:CE3	1:A:774:LEU:HB2	2.20	0.76
1:C:132:LYS:NZ	1:C:139:GLN:HE22	1.84	0.76
1:C:563:ILE:HG13	1:C:564:GLU:N	1.98	0.76
2:D:922:LYS:HE3	2:D:1329:TYR:CZ	2.20	0.76
1:A:104:LEU:HD12	1:A:105:GLU:H	1.50	0.76
1:A:493:ILE:HG22	1:A:495:LYS:N	2.01	0.76
1:A:618:LYS:N	1:A:619:PRO:HD2	2.01	0.76
1:C:1152:ILE:HG21	1:C:1168:LEU:HD21	1.68	0.76
1:C:470:THR:HG22	2:D:450:THR:CB	2.15	0.76
1:C:133:PRO:HD2	1:C:609:VAL:HG11	1.67	0.76
1:A:1100:ILE:HG21	1:A:1158:ILE:HD12	1.68	0.76
1:A:1320:LYS:CD	1:A:1321:GLY:H	1.98	0.76
1:A:563:ILE:HG13	1:A:564:GLU:N	1.98	0.76
2:B:114:ARG:O	2:B:115:LEU:HD23	1.85	0.76
1:C:666:ASP:O	1:C:668:PRO:HD2	1.84	0.76
2:D:1393:ASP:HB2	2:D:1443:LEU:HD11	1.66	0.76
1:A:493:ILE:CG2	1:A:495:LYS:HB2	2.14	0.76
2:B:1387:LEU:HD21	2:B:1472:TYR:CE1	2.20	0.76
1:C:1626:GLN:HB2	1:C:1635:TYR:HD1	1.49	0.76
1:C:412:ARG:HH22	1:C:472:ASN:ND2	1.83	0.76
2:D:137:TYR:HB2	2:D:216:VAL:HG23	1.68	0.76
1:A:284:GLN:HG2	1:A:310:LEU:HD22	1.68	0.76
1:A:322:TYR:N	1:A:322:TYR:HD2	1.84	0.76
1:A:467:ILE:HG22	1:A:486:VAL:HG22	1.68	0.76
1:C:1365:VAL:HG22	1:C:1366:HIS:H	1.51	0.76
1:C:59:TYR:CD1	1:C:60:PRO:HD3	2.21	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:132:LYS:NZ	1:A:139:GLN:HE22	1.84	0.76
1:A:1626:GLN:HB2	1:A:1635:TYR:CD1	2.20	0.76
1:C:1560:ALA:CB	1:C:1620:MET:HG2	2.16	0.76
1:C:618:LYS:N	1:C:619:PRO:HD2	2.01	0.76
1:C:944:LEU:HD12	1:C:1313:ILE:HD11	1.66	0.76
1:A:222:TYR:OH	1:A:224:LEU:HD23	1.86	0.76
1:A:666:ASP:O	1:A:668:PRO:HD2	1.85	0.76
2:B:476:ILE:O	2:B:476:ILE:HG23	1.83	0.76
1:C:873:ILE:O	1:C:873:ILE:HD12	1.85	0.76
1:A:690:TYR:HE1	1:A:696:LYS:HD2	1.51	0.75
2:B:1450:PHE:HD1	2:B:1451:ILE:N	1.82	0.75
2:B:851:LEU:CD2	2:B:852:TYR:H	1.98	0.75
1:C:1176:LEU:HD23	1:C:1176:LEU:N	2.00	0.75
1:C:126:LEU:HD11	1:C:205:TYR:CZ	2.21	0.75
1:C:936:ARG:HG3	1:C:936:ARG:HH11	1.50	0.75
2:D:218:LYS:HD3	2:D:822:TYR:HE2	1.50	0.75
1:A:480:GLU:O	1:A:530:VAL:HG12	1.85	0.75
1:A:77:ASN:ND2	1:A:81:ASN:HB2	2.01	0.75
1:C:1320:LYS:CD	1:C:1321:GLY:H	1.97	0.75
1:C:267:ILE:HD12	1:C:299:VAL:HG11	1.68	0.75
2:D:1450:PHE:HD1	2:D:1451:ILE:N	1.81	0.75
2:D:1609:ARG:CG	2:D:1609:ARG:HH11	1.94	0.75
1:A:873:ILE:HD12	1:A:873:ILE:O	1.87	0.75
1:A:1386:ILE:HG13	1:A:1387:GLU:H	1.52	0.75
2:B:235:PHE:HB3	2:B:338:ILE:HG22	1.68	0.75
2:B:127:PHE:HE2	2:B:602:ILE:HG23	1.52	0.75
2:B:891:LEU:HB3	2:B:912:LYS:HD3	1.66	0.75
1:C:77:ASN:ND2	1:C:81:ASN:HB2	2.01	0.75
2:D:462:VAL:HG21	2:D:520:PHE:CE2	2.21	0.75
1:C:1244:THR:HG23	1:C:1502:ASP:OD2	1.87	0.75
1:C:284:GLN:HG2	1:C:310:LEU:HD22	1.67	0.75
2:D:481:TYR:HE1	2:D:506:MET:SD	2.09	0.75
1:A:1159:CYS:SG	1:A:1161:LEU:HD23	2.27	0.75
2:B:410:PRO:HA	2:B:431:THR:HG22	1.68	0.75
2:B:469:ASN:OD1	2:B:472:SER:HB2	1.85	0.75
2:B:563:MET:HB3	2:B:778:PHE:CE2	2.21	0.75
2:D:1506:ILE:HD12	2:D:1627:ASP:HB2	1.68	0.75
2:B:1583:ILE:HG23	2:B:1607:ILE:HG23	1.67	0.75
2:B:221:LEU:CD1	2:B:753:LYS:HG2	2.17	0.75
1:C:243:PHE:CE1	1:C:316:GLU:HB3	2.22	0.75
2:B:494:ARG:HG3	2:B:494:ARG:HH11	1.51	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1085:VAL:O	1:C:1089:VAL:HG23	1.86	0.75
2:D:960:GLU:OE1	2:D:1306:LYS:HE2	1.87	0.75
1:A:765:ILE:O	1:A:765:ILE:HD12	1.87	0.75
2:B:299:PHE:HE1	2:B:303:PHE:HD2	1.35	0.75
1:C:493:ILE:HG22	1:C:495:LYS:N	2.01	0.75
2:D:1284:ARG:HG3	2:D:1286:VAL:H	1.51	0.75
1:A:975:ARG:NH2	1:A:1346:LEU:HD22	2.02	0.74
1:C:111:PHE:HE2	1:C:113:LYS:CB	2.00	0.74
1:C:955:ARG:HG2	1:C:1350:THR:HG23	1.69	0.74
2:D:244:HIS:HB3	2:D:291:LYS:HD2	1.68	0.74
2:B:462:VAL:HG21	2:B:520:PHE:CE2	2.22	0.74
2:B:745:ILE:CG2	2:B:897:LYS:HD3	2.17	0.74
2:B:948:ARG:NH2	2:B:948:ARG:HB2	2.02	0.74
2:D:296:ARG:HG3	2:D:296:ARG:HH11	1.53	0.74
1:A:20:GLU:O	1:A:20:GLU:HG2	1.85	0.74
1:A:500:ASN:HB2	1:A:543:TYR:CD1	2.22	0.74
1:A:506:LYS:HD2	1:A:536:PRO:HD2	1.69	0.74
2:B:518:PHE:HE2	2:B:538:VAL:HB	1.52	0.74
1:C:690:TYR:HE1	1:C:696:LYS:HD2	1.52	0.74
2:D:1457:LYS:HG2	2:D:1469:THR:OG1	1.87	0.74
1:A:322:TYR:CD2	1:A:322:TYR:N	2.55	0.74
1:A:829:ILE:HG12	1:A:925:LYS:HG2	1.69	0.74
1:C:620:LEU:O	1:C:622:ARG:N	2.21	0.74
2:D:825:VAL:HB	2:D:828:GLU:CD	2.08	0.74
1:A:120:THR:HG22	1:A:122:ASP:H	1.52	0.74
1:A:423:ASN:OD1	2:B:504:VAL:HG22	1.87	0.74
1:A:809:ILE:HG12	1:A:810:CYS:N	2.03	0.74
1:A:849:ARG:NH1	2:B:555:LEU:HD13	2.02	0.74
1:C:1033:ILE:HG22	1:C:1034:PHE:CD1	2.22	0.74
1:C:113:LYS:HG2	1:C:114:SER:N	1.99	0.74
1:C:1309:LEU:HD11	1:C:1328:MET:HG3	1.69	0.74
1:A:412:ARG:HH22	1:A:472:ASN:ND2	1.86	0.74
2:B:481:TYR:HB2	2:B:520:PHE:CE1	2.20	0.74
1:C:1584:ILE:HG22	1:C:1585:TYR:N	2.02	0.74
1:C:222:TYR:OH	1:C:224:LEU:HD23	1.87	0.74
2:D:192:VAL:HG22	2:D:193:SER:H	1.51	0.74
1:A:969:PRO:HG3	1:A:1601:ILE:HD12	1.70	0.74
1:A:59:TYR:CD1	1:A:60:PRO:HD3	2.23	0.74
1:A:88:GLN:O	1:A:90:LYS:HD3	1.88	0.74
2:B:825:VAL:HB	2:B:828:GLU:CD	2.07	0.74
1:C:132:LYS:O	1:C:135:TYR:HE2	1.70	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:809:ILE:HG12	1:C:810:CYS:N	2.03	0.74
2:B:952:ASP:N	2:B:952:ASP:OD1	2.21	0.73
2:D:1520:VAL:HG11	2:D:1584:TRP:CD1	2.23	0.73
2:D:435:TYR:CD1	2:D:436:GLN:N	2.49	0.73
1:C:937:GLU:O	1:C:1363:THR:HG23	1.88	0.73
1:C:473:HIS:CE1	2:D:455:LYS:HZ1	2.05	0.73
2:D:1387:LEU:HD21	2:D:1472:TYR:CE1	2.23	0.73
2:D:353:TYR:HB2	2:D:613:SER:OG	1.88	0.73
1:A:25:ILE:H	1:A:655:THR:CG2	2.00	0.73
1:A:830:PRO:HG3	1:A:1483:PHE:CE2	2.23	0.73
2:B:380:VAL:CG1	2:B:387:MET:HB3	2.13	0.73
1:C:182:ILE:HG12	1:C:804:ILE:CD1	2.18	0.73
2:D:848:VAL:HG22	2:D:898:ALA:HB2	1.70	0.73
1:C:1627:ILE:O	1:C:1627:ILE:HG13	1.88	0.73
1:C:871:PRO:HB3	1:C:882:LYS:HG3	1.70	0.73
2:D:1514:LYS:O	2:D:1517:GLU:HB2	1.89	0.73
1:A:1402:ILE:HG13	1:A:1479:ILE:HD12	1.70	0.73
1:C:135:TYR:HE1	1:C:141:VAL:HA	1.54	0.73
1:A:538:SER:O	1:A:561:LEU:HB2	1.88	0.73
1:A:60:PRO:CD	1:A:61:ASP:H	2.00	0.73
2:B:1457:LYS:HG2	2:B:1469:THR:OG1	1.88	0.73
2:B:1609:ARG:CG	2:B:1609:ARG:HH11	1.95	0.73
1:C:538:SER:O	1:C:561:LEU:HB2	1.88	0.73
1:C:907:LEU:HD12	1:C:908:HIS:H	1.52	0.73
2:D:548:LEU:CD2	2:D:793:SER:HB3	2.16	0.73
1:A:1560:ALA:CB	1:A:1620:MET:HG2	2.19	0.73
1:A:1623:GLU:CB	1:A:1638:PRO:HG2	2.19	0.73
1:A:977:LEU:HD22	1:A:978:SER:N	2.04	0.73
2:D:1520:VAL:HG11	2:D:1584:TRP:HD1	1.52	0.73
2:D:961:THR:CG2	2:D:1327:THR:HG23	2.19	0.73
1:A:1244:THR:HG23	1:A:1502:ASP:OD2	1.89	0.73
1:A:1323:LEU:HD12	1:A:1324:HIS:H	1.54	0.73
1:C:154:PRO:O	1:C:155:ALA:CB	2.37	0.73
2:D:320:VAL:HG12	2:D:329:VAL:HG22	1.71	0.73
1:A:871:PRO:HB3	1:A:882:LYS:HG3	1.70	0.73
2:B:1408:ILE:HD11	2:B:1425:ILE:HG12	1.71	0.73
2:B:750:ASP:O	2:B:782:ASP:HB2	1.88	0.73
1:C:393:GLN:HG2	1:C:403:ASP:OD1	1.89	0.73
1:C:977:LEU:HD22	1:C:978:SER:N	2.03	0.73
2:D:563:MET:HE2	2:D:564:LYS:H	1.54	0.73
1:A:1176:LEU:HD23	1:A:1176:LEU:N	2.02	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1627:ILE:CD1	1:A:1629:TYR:HB3	2.17	0.73
1:A:182:ILE:HG12	1:A:804:ILE:CD1	2.19	0.73
2:B:435:TYR:CD1	2:B:436:GLN:N	2.50	0.73
2:B:960:GLU:OE1	2:B:1306:LYS:HE2	1.89	0.73
1:C:1333:PHE:O	1:C:1334:LEU:HB2	1.88	0.73
1:C:830:PRO:HG3	1:C:1483:PHE:CE2	2.22	0.73
1:A:104:LEU:HD12	1:A:105:GLU:N	2.03	0.72
1:A:144:ARG:HD2	1:A:146:TYR:CE1	2.24	0.72
1:C:1159:CYS:SG	1:C:1161:LEU:HD23	2.29	0.72
1:C:20:GLU:HB2	1:C:551:THR:HA	1.70	0.72
1:C:480:GLU:O	1:C:530:VAL:HG12	1.89	0.72
2:D:137:TYR:CZ	2:D:143:VAL:HG22	2.24	0.72
1:A:1090:ASN:O	1:A:1092:TYR:N	2.22	0.72
1:A:1549:LYS:HZ2	1:A:1667:PHE:HD1	1.35	0.72
1:A:500:ASN:HB3	1:A:543:TYR:CE1	2.24	0.72
2:B:104:VAL:HG22	2:B:105:VAL:H	1.54	0.72
2:B:961:THR:CG2	2:B:1327:THR:HG23	2.19	0.72
1:C:1323:LEU:HD12	1:C:1324:HIS:H	1.54	0.72
1:C:88:GLN:O	1:C:90:LYS:HD3	1.89	0.72
1:C:975:ARG:NH1	1:C:1340:VAL:HG11	2.05	0.72
2:D:165:PHE:CZ	2:D:199:ILE:HD11	2.24	0.72
1:A:1083:LEU:HD22	1:A:1104:LEU:HD21	1.70	0.72
2:B:1473:HIS:HD2	2:B:1474:PRO:HD2	1.54	0.72
2:B:618:LEU:HD22	2:B:636:THR:HA	1.70	0.72
1:C:362:PHE:CE1	1:C:640:LEU:HD22	2.23	0.72
1:A:720:LEU:HD13	1:A:724:CYS:HB3	1.72	0.72
2:B:1613:GLU:O	2:B:1616:CYS:HB2	1.89	0.72
1:C:371:ILE:HG22	1:C:420:PHE:HB2	1.70	0.72
1:C:60:PRO:CD	1:C:61:ASP:H	2.01	0.72
1:C:934:VAL:HG22	1:C:1366:HIS:CD2	2.23	0.72
1:A:62:LYS:HD3	1:A:103:TYR:CD2	2.24	0.72
2:B:120:LEU:HD12	2:B:121:LEU:N	2.03	0.72
2:B:164:GLU:HG2	2:B:175:SER:HB2	1.70	0.72
2:B:262:PHE:HE1	2:B:282:ARG:HG3	1.54	0.72
1:A:934:VAL:HG22	1:A:1366:HIS:CD2	2.23	0.72
1:A:1573:VAL:O	1:A:1603:LYS:HD2	1.88	0.72
1:A:786:LEU:H	1:A:786:LEU:HD23	1.54	0.72
1:A:796:THR:HG23	1:A:818:LYS:CB	2.18	0.72
1:C:1568:ILE:HG23	1:C:1577:TYR:HE1	1.54	0.72
1:C:1549:LYS:HZ2	1:C:1667:PHE:HD1	1.35	0.72
1:C:489:LYS:HG2	1:C:490:SER:N	2.04	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:104:VAL:HG22	2:D:105:VAL:H	1.54	0.72
2:D:127:PHE:CE2	2:D:602:ILE:HG23	2.23	0.72
1:A:1645:ILE:O	1:A:1646:GLU:HG3	1.89	0.72
1:C:1365:VAL:HG22	1:C:1366:HIS:N	2.05	0.72
1:C:720:LEU:HD13	1:C:724:CYS:HB3	1.72	0.72
2:D:120:LEU:HD12	2:D:121:LEU:N	2.04	0.72
2:D:1382:ILE:CD1	2:D:1458:VAL:HG22	2.19	0.72
2:D:829:GLN:HE22	2:D:883:VAL:HG13	1.53	0.72
2:D:948:ARG:HB2	2:D:948:ARG:NH2	2.04	0.72
2:B:922:LYS:HE3	2:B:1329:TYR:CZ	2.24	0.72
1:C:1083:LEU:HD22	1:C:1104:LEU:HD21	1.69	0.72
1:C:614:ARG:HD2	1:C:615:GLY:N	2.04	0.72
1:C:697:LYS:O	1:C:700:TYR:HB3	1.90	0.72
1:A:620:LEU:O	1:A:622:ARG:N	2.23	0.72
2:B:851:LEU:HD23	2:B:852:TYR:N	2.01	0.72
1:C:1153:ARG:HD2	1:C:1197:LEU:HB3	1.71	0.72
1:A:30:ILE:HG23	1:A:118:PRO:HB2	1.71	0.72
1:C:1660:PHE:HE2	1:C:1664:LEU:HD12	1.54	0.72
2:B:1514:LYS:O	2:B:1517:GLU:HB2	1.90	0.71
1:C:1271:ILE:HD13	1:C:1300:TYR:CE1	2.24	0.71
1:C:786:LEU:H	1:C:786:LEU:HD23	1.53	0.71
2:D:925:VAL:HG13	2:D:1326:LEU:HD23	1.71	0.71
2:D:422:ARG:CD	2:D:422:ARG:H	2.02	0.71
2:D:449:ILE:HD13	2:D:462:VAL:HG23	1.71	0.71
2:B:296:ARG:HH11	2:B:296:ARG:HG3	1.54	0.71
2:B:824:VAL:HG21	2:B:830:VAL:HG11	1.70	0.71
1:C:115:LYS:HB2	1:C:654:LEU:HD11	1.71	0.71
1:C:461:SER:HB2	1:C:553:GLU:OE2	1.90	0.71
1:C:554:LEU:HB3	1:C:642:ASN:OD1	1.90	0.71
2:D:745:ILE:HG21	2:D:897:LYS:HD3	1.72	0.71
1:A:1132:THR:HG22	1:A:1133:LEU:H	1.55	0.71
1:A:1333:PHE:O	1:A:1334:LEU:HB2	1.88	0.71
2:B:194:LEU:CD1	2:B:217:ARG:HA	2.20	0.71
2:B:548:LEU:CD2	2:B:793:SER:HB3	2.18	0.71
1:C:148:LEU:HD12	1:C:154:PRO:O	1.91	0.71
1:C:154:PRO:O	1:C:155:ALA:HB3	1.89	0.71
1:C:628:GLU:C	1:C:630:SER:H	1.91	0.71
1:A:115:LYS:HB2	1:A:654:LEU:HD11	1.71	0.71
1:A:365:PRO:HD2	1:A:464:TYR:CD2	2.25	0.71
1:A:393:GLN:HG2	1:A:403:ASP:OD1	1.90	0.71
2:B:137:TYR:CZ	2:B:143:VAL:HG22	2.26	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:765:ILE:O	1:C:765:ILE:HD12	1.91	0.71
1:A:135:TYR:CE1	1:A:141:VAL:HA	2.25	0.71
1:A:20:GLU:HB2	1:A:551:THR:HA	1.71	0.71
2:B:1305:THR:HG23	2:B:1307:LEU:H	1.54	0.71
2:B:1610:TRP:HA	2:B:1628:PHE:CE2	2.23	0.71
2:B:208:GLU:OE1	2:B:210:TYR:HB2	1.91	0.71
1:A:1098:ASN:OD1	1:C:1160:PRO:HG2	1.90	0.71
1:C:322:TYR:N	1:C:322:TYR:HD2	1.89	0.71
2:D:106:VAL:HG23	2:D:117:LYS:O	1.89	0.71
1:A:133:PRO:HD2	1:A:609:VAL:HG11	1.71	0.71
1:A:638:GLY:HA2	1:A:645:VAL:HG22	1.73	0.71
2:B:106:VAL:HG23	2:B:117:LYS:O	1.89	0.71
1:C:1136:GLU:O	1:C:1139:GLU:HB2	1.91	0.71
1:C:638:GLY:HA2	1:C:645:VAL:HG22	1.72	0.71
2:D:1613:GLU:O	2:D:1616:CYS:HB2	1.91	0.71
1:A:1227:PHE:HD1	1:A:1227:PHE:C	1.93	0.71
1:A:1365:VAL:HG22	1:A:1366:HIS:H	1.55	0.71
1:A:614:ARG:HD2	1:A:615:GLY:N	2.05	0.71
2:B:320:VAL:HG12	2:B:329:VAL:HG22	1.73	0.71
1:C:1056:ILE:C	1:C:1056:ILE:HD13	2.09	0.71
1:C:156:LYS:O	1:C:157:ARG:HG2	1.91	0.71
1:C:1626:GLN:HB2	1:C:1635:TYR:CD1	2.25	0.71
2:D:494:ARG:HG3	2:D:494:ARG:HH11	1.55	0.71
2:D:824:VAL:HG21	2:D:830:VAL:HG11	1.71	0.71
2:B:848:VAL:HG22	2:B:898:ALA:HB2	1.72	0.71
1:C:1650:ARG:H	1:C:1650:ARG:HD2	1.56	0.71
1:C:796:THR:HG23	1:C:818:LYS:CB	2.20	0.71
1:A:1012:LEU:HD13	1:A:1081:PHE:HD2	1.54	0.71
1:A:489:LYS:HG2	1:A:490:SER:N	2.04	0.71
1:A:682:LYS:HZ2	1:A:686:ILE:HD11	1.55	0.71
1:A:1176:LEU:HB3	1:A:1204:GLN:HG2	1.73	0.71
1:A:506:LYS:HE2	1:A:533:ASN:O	1.90	0.71
1:A:595:GLY:HA2	1:A:782:ARG:HH11	1.56	0.71
1:A:907:LEU:HD12	1:A:908:HIS:H	1.55	0.71
1:C:1581:LEU:CD1	1:C:1598:ILE:HD11	2.21	0.71
1:C:322:TYR:CD2	1:C:322:TYR:N	2.59	0.71
2:D:1288:ILE:HD12	2:D:1303:VAL:HG21	1.71	0.71
2:D:1610:TRP:HA	2:D:1628:PHE:CE2	2.24	0.71
1:A:1479:ILE:N	1:A:1479:ILE:HD13	2.06	0.70
1:A:576:SER:CB	1:A:577:PRO:HD3	2.19	0.70
2:B:294:LEU:HD12	2:B:295:LYS:H	1.56	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:989:SER:O	1:C:993:SER:HB2	1.91	0.70
2:D:1341:ASN:ND2	2:D:1342:LYS:HG2	2.06	0.70
2:D:262:PHE:HE1	2:D:282:ARG:HG3	1.54	0.70
1:A:371:ILE:HG22	1:A:420:PHE:HB2	1.72	0.70
1:A:365:PRO:HG2	1:A:464:TYR:CE2	2.26	0.70
1:C:983:LEU:HD21	1:C:1271:ILE:HD12	1.74	0.70
2:D:218:LYS:HD3	2:D:822:TYR:CE2	2.25	0.70
2:D:299:PHE:HE1	2:D:303:PHE:HD2	1.39	0.70
2:D:380:VAL:CG1	2:D:387:MET:HB3	2.16	0.70
2:B:1288:ILE:HD12	2:B:1303:VAL:HG21	1.71	0.70
2:B:1590:LEU:HD23	2:B:1591:LEU:N	2.02	0.70
2:D:1442:ILE:C	2:D:1443:LEU:HD12	2.11	0.70
1:A:1085:VAL:O	1:A:1089:VAL:HG23	1.91	0.70
1:A:1627:ILE:HG13	1:A:1627:ILE:O	1.88	0.70
1:A:625:GLN:HG2	1:A:626:PHE:N	2.06	0.70
2:B:1382:ILE:HD12	2:B:1458:VAL:HG22	1.72	0.70
2:B:353:TYR:HB2	2:B:613:SER:OG	1.92	0.70
2:B:449:ILE:HD13	2:B:462:VAL:HG23	1.72	0.70
1:C:595:GLY:HA2	1:C:782:ARG:HH11	1.56	0.70
1:C:849:ARG:NH1	1:C:849:ARG:HG3	2.06	0.70
2:D:1305:THR:HG23	2:D:1307:LEU:H	1.55	0.70
2:D:216:VAL:HG12	2:D:216:VAL:O	1.90	0.70
2:D:829:GLN:HA	2:D:885:VAL:HG12	1.72	0.70
1:A:983:LEU:HD21	1:A:1271:ILE:HD12	1.73	0.70
2:B:422:ARG:H	2:B:422:ARG:CD	2.04	0.70
2:B:54:LEU:HD21	2:B:75:MET:HE2	1.72	0.70
1:A:1584:ILE:HG22	1:A:1585:TYR:N	2.04	0.70
1:A:628:GLU:C	1:A:630:SER:H	1.92	0.70
1:C:1145:THR:O	1:C:1149:VAL:HG23	1.92	0.70
2:D:1408:ILE:HD11	2:D:1425:ILE:HG12	1.73	0.70
1:A:1033:ILE:HG22	1:A:1034:PHE:CD1	2.26	0.70
1:C:1450:PHE:HZ	1:C:1475:VAL:HB	1.57	0.70
1:C:1534:GLN:HG3	1:C:1534:GLN:O	1.91	0.70
1:C:640:LEU:H	1:C:644:ASN:HB3	1.57	0.70
1:A:1427:SER:HB3	1:A:1492:THR:HG23	1.74	0.70
2:D:481:TYR:HB2	2:D:520:PHE:CE1	2.25	0.70
1:A:1145:THR:O	1:A:1149:VAL:HG23	1.92	0.70
1:A:1271:ILE:HD13	1:A:1300:TYR:CE1	2.26	0.70
1:A:148:LEU:HD12	1:A:154:PRO:O	1.92	0.70
1:A:554:LEU:HB3	1:A:642:ASN:OD1	1.91	0.70
1:C:506:LYS:HE2	1:C:533:ASN:O	1.92	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1013:MET:O	1:A:1016:VAL:HG23	1.91	0.70
1:A:495:LYS:HA	1:A:495:LYS:HE2	1.72	0.70
2:B:127:PHE:CE2	2:B:602:ILE:HG23	2.26	0.70
2:B:1341:ASN:ND2	2:B:1342:LYS:HG2	2.07	0.70
2:B:525:GLN:HA	2:B:530:GLU:O	1.91	0.70
1:C:1226:ARG:CZ	1:C:1266:TYR:HE1	2.05	0.70
2:D:1275:LEU:HD21	2:D:1319:GLY:O	1.91	0.70
2:D:834:ALA:O	2:D:835:ILE:HD13	1.91	0.70
1:A:931:PRO:HB2	1:A:1366:HIS:CD2	2.27	0.69
1:A:955:ARG:HG2	1:A:1350:THR:CG2	2.22	0.69
2:B:1275:LEU:HD21	2:B:1319:GLY:O	1.92	0.69
2:B:239:GLY:H	2:B:296:ARG:HH22	1.37	0.69
1:C:104:LEU:HD12	1:C:105:GLU:H	1.56	0.69
1:C:1090:ASN:O	1:C:1092:TYR:N	2.25	0.69
1:C:33:VAL:HG21	1:C:121:TYR:CD1	2.26	0.69
1:C:1227:PHE:C	1:C:1227:PHE:HD1	1.95	0.69
1:C:180:ILE:O	1:C:182:ILE:N	2.24	0.69
1:C:23:TYR:N	1:C:23:TYR:CD1	2.54	0.69
1:C:576:SER:CB	1:C:577:PRO:HD3	2.18	0.69
2:D:1383:ASP:O	2:D:1456:VAL:HA	1.92	0.69
1:A:1581:LEU:CD1	1:A:1598:ILE:HD11	2.23	0.69
1:A:687:ALA:O	1:A:690:TYR:HB3	1.92	0.69
2:B:481:TYR:O	2:B:481:TYR:CD2	2.42	0.69
1:C:495:LYS:HE2	1:C:495:LYS:HA	1.73	0.69
1:C:625:GLN:HG2	1:C:626:PHE:N	2.06	0.69
1:A:154:PRO:O	1:A:155:ALA:CB	2.40	0.69
1:A:361:LEU:N	1:A:361:LEU:HD12	2.08	0.69
2:B:818:LEU:HD23	2:B:911:LYS:HD2	1.73	0.69
1:C:1213:LYS:HG2	1:C:1266:TYR:HE2	1.56	0.69
1:C:975:ARG:NH2	1:C:1346:LEU:HD22	2.07	0.69
1:C:463:SER:CB	1:C:491:PRO:HA	2.23	0.69
2:B:524:TYR:CE1	2:B:532:VAL:HG12	2.27	0.69
2:D:618:LEU:HD22	2:D:636:THR:HA	1.73	0.69
2:D:218:LYS:HB3	2:D:822:TYR:HD2	1.56	0.69
1:A:1108:VAL:HG11	1:A:1164:ILE:HG22	1.74	0.69
1:C:1244:THR:O	1:C:1247:MET:HB3	1.93	0.69
1:C:62:LYS:HD3	1:C:103:TYR:CD2	2.27	0.69
2:D:750:ASP:O	2:D:782:ASP:HB2	1.91	0.69
1:A:955:ARG:NH1	1:A:1352:PHE:HA	2.06	0.69
2:B:1590:LEU:CD2	2:B:1591:LEU:H	2.03	0.69
2:B:953:ARG:CG	2:B:954:VAL:H	2.05	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1162:VAL:H	1:C:1102:ASN:ND2	1.88	0.69
1:C:495:LYS:CE	1:C:495:LYS:HA	2.21	0.69
2:D:168:PRO:HG3	2:D:196:THR:C	2.12	0.69
2:D:891:LEU:HB3	2:D:912:LYS:HD3	1.73	0.69
1:A:1136:GLU:O	1:A:1139:GLU:HB2	1.92	0.69
1:A:493:ILE:HG22	1:A:495:LYS:HB2	1.73	0.69
2:B:137:TYR:HB2	2:B:216:VAL:HG23	1.75	0.69
2:B:603:GLU:O	2:B:605:SER:N	2.25	0.69
1:C:120:THR:HG22	1:C:122:ASP:H	1.57	0.69
1:C:1450:PHE:CZ	1:C:1475:VAL:HB	2.28	0.69
2:D:598:ILE:CD1	2:D:800:ILE:HG21	2.22	0.69
1:A:1244:THR:O	1:A:1247:MET:HB3	1.91	0.69
1:A:697:LYS:O	1:A:700:TYR:HB3	1.93	0.69
1:A:824:PHE:HD2	1:A:824:PHE:H	1.39	0.69
2:B:312:HIS:O	2:B:338:ILE:HG12	1.92	0.69
1:C:363:LEU:HD12	1:C:363:LEU:O	1.93	0.69
1:C:752:LEU:HD12	1:C:753:HIS:N	2.06	0.69
1:C:834:VAL:HB	1:C:837:GLU:CD	2.13	0.69
2:B:1273:LEU:CB	2:B:1319:GLY:HA3	2.22	0.69
1:C:1013:MET:O	1:C:1016:VAL:HG23	1.92	0.69
1:C:1068:VAL:HG13	1:C:1069:TRP:H	1.58	0.69
1:C:1431:GLY:C	1:C:1432:ILE:HD13	2.13	0.69
1:C:1575:VAL:HB	1:C:1602:LYS:O	1.93	0.69
1:C:196:TYR:CE1	1:C:221:GLU:HB2	2.28	0.69
1:C:234:GLU:HG3	1:C:235:TYR:CD2	2.27	0.69
1:C:654:LEU:O	1:C:655:THR:HG23	1.92	0.69
1:C:906:GLY:O	1:C:908:HIS:CE1	2.46	0.69
2:D:1391:LEU:HB2	2:D:1417:MET:HE2	1.75	0.69
2:D:235:PHE:HB3	2:D:338:ILE:HG22	1.74	0.69
1:A:1084:ARG:HD2	1:A:1154:LYS:HG3	1.75	0.69
2:B:1383:ASP:O	2:B:1456:VAL:HA	1.92	0.69
1:C:1211:ALA:HA	1:C:1214:ARG:HH11	1.57	0.69
2:D:469:ASN:OD1	2:D:472:SER:HB2	1.93	0.69
1:A:421:VAL:HG11	2:B:505:THR:CG2	2.20	0.69
1:C:145:VAL:HB	1:C:183:ILE:CD1	2.22	0.69
1:C:931:PRO:HB2	1:C:1366:HIS:CD2	2.27	0.69
1:C:982:LEU:HD12	1:C:982:LEU:N	2.08	0.69
2:D:194:LEU:HD12	2:D:217:ARG:HA	1.73	0.69
2:D:269:ILE:HA	2:D:312:HIS:CD2	2.27	0.69
2:D:603:GLU:O	2:D:605:SER:N	2.26	0.69
2:B:925:VAL:HG13	2:B:1326:LEU:HD23	1.72	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:500:ASN:HB2	1:C:543:TYR:CE1	2.27	0.68
2:D:1284:ARG:CG	2:D:1285:GLU:N	2.55	0.68
1:A:1211:ALA:HA	1:A:1214:ARG:HH11	1.57	0.68
1:A:1421:HIS:HD2	1:A:1422:ALA:N	1.91	0.68
1:A:1534:GLN:HG3	1:A:1534:GLN:O	1.93	0.68
1:C:1573:VAL:O	1:C:1603:LYS:HD2	1.93	0.68
1:C:514:THR:O	1:C:515:ARG:HD3	1.93	0.68
2:D:1583:ILE:HG23	2:D:1607:ILE:HG23	1.75	0.68
2:D:513:ASP:N	2:D:513:ASP:OD2	2.25	0.68
2:D:76:ASN:HB2	2:D:77:PRO:HD2	1.75	0.68
1:A:1660:PHE:HE2	1:A:1664:LEU:HD12	1.57	0.68
1:C:1279:ARG:HD3	1:C:1280:TYR:N	2.08	0.68
1:C:493:ILE:HG22	1:C:495:LYS:HB2	1.73	0.68
2:B:1442:ILE:C	2:B:1443:LEU:HD12	2.14	0.68
2:B:24:LEU:HB3	2:B:46:HIS:HB2	1.76	0.68
2:B:844:ILE:HG13	2:B:872:ILE:HG12	1.76	0.68
1:C:360:PRO:HB3	1:C:636:ALA:HB3	1.75	0.68
2:D:481:TYR:CD2	2:D:481:TYR:O	2.45	0.68
1:A:154:PRO:O	1:A:155:ALA:HB3	1.92	0.68
1:A:243:PHE:CE1	1:A:316:GLU:HB3	2.28	0.68
1:A:654:LEU:O	1:A:655:THR:HG23	1.93	0.68
2:B:513:ASP:OD2	2:B:513:ASP:N	2.26	0.68
1:C:1024:TYR:HA	1:C:1302:LEU:HD21	1.75	0.68
1:C:1487:PHE:CD2	1:C:1487:PHE:N	2.61	0.68
1:C:222:TYR:CD2	1:C:223:VAL:N	2.62	0.68
1:A:1019:PHE:CD2	1:A:1019:PHE:C	2.67	0.68
1:A:1450:PHE:HZ	1:A:1475:VAL:HB	1.59	0.68
1:A:156:LYS:O	1:A:157:ARG:HG2	1.94	0.68
1:C:1053:MET:HE2	1:C:1089:VAL:HG21	1.75	0.68
1:C:500:ASN:HB3	1:C:543:TYR:CE1	2.29	0.68
2:D:208:GLU:OE1	2:D:210:TYR:HB2	1.94	0.68
2:D:622:GLU:OE2	2:D:637:LYS:HD3	1.93	0.68
1:A:1219:LYS:HE2	1:A:1239:VAL:HG21	1.76	0.68
1:A:224:LEU:HD22	1:A:225:PRO:CD	2.21	0.68
1:A:439:ALA:HB3	1:A:442:LEU:HD12	1.76	0.68
2:B:194:LEU:HD12	2:B:217:ARG:HA	1.75	0.68
1:C:1024:TYR:HD2	1:C:1025:LEU:N	1.92	0.68
1:C:1008:ALA:CB	1:C:1078:LEU:HD11	2.22	0.68
2:D:548:LEU:HD22	2:D:793:SER:CB	2.20	0.68
2:D:818:LEU:HD23	2:D:911:LYS:HD2	1.75	0.68
1:A:936:ARG:HG3	1:A:936:ARG:NH1	2.09	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:938:SER:C	1:A:940:SER:H	1.97	0.68
2:B:128:LEU:O	2:B:129:PHE:CD1	2.47	0.68
1:A:145:VAL:HB	1:A:183:ILE:CD1	2.24	0.68
1:A:977:LEU:HD23	1:A:1361:VAL:HG13	1.76	0.68
2:B:218:LYS:HB3	2:B:822:TYR:HD2	1.57	0.68
1:A:1561:TYR:HD1	1:A:1581:LEU:HD21	1.57	0.68
1:C:42:GLN:HG2	1:C:43:VAL:N	2.09	0.68
2:D:916:VAL:HG23	2:D:917:PRO:HD2	1.76	0.68
1:A:1227:PHE:CD1	1:A:1227:PHE:C	2.67	0.67
1:A:1365:VAL:HG22	1:A:1366:HIS:N	2.08	0.67
1:A:594:THR:O	1:A:782:ARG:HD3	1.94	0.67
1:A:906:GLY:O	1:A:908:HIS:CE1	2.47	0.67
2:B:168:PRO:HD3	2:B:197:TRP:CD1	2.29	0.67
2:B:563:MET:HE2	2:B:564:LYS:H	1.59	0.67
1:C:1644:TRP:NE1	1:C:1646:GLU:OE1	2.26	0.67
1:C:269:PHE:HE1	1:C:287:MET:HB3	1.58	0.67
2:D:1501:ASN:H	2:D:1501:ASN:HD22	1.40	0.67
2:D:312:HIS:O	2:D:338:ILE:HG12	1.93	0.67
1:C:1108:VAL:HG11	1:C:1164:ILE:HG22	1.76	0.67
1:C:1174:PHE:O	1:C:1178:ASN:HB2	1.95	0.67
1:C:179:HIS:O	1:C:180:ILE:HG12	1.95	0.67
2:D:1474:PRO:HG2	2:D:1475:ASP:OD1	1.93	0.67
2:D:214:PHE:CD1	2:D:214:PHE:O	2.47	0.67
2:D:482:LEU:HD12	2:D:482:LEU:N	2.09	0.67
1:A:1450:PHE:CZ	1:A:1475:VAL:HB	2.29	0.67
1:A:222:TYR:CD2	1:A:223:VAL:N	2.63	0.67
1:A:539:ARG:HE	1:A:633:GLY:HA3	1.59	0.67
2:D:511:THR:O	2:D:514:LEU:HG	1.93	0.67
1:A:1244:THR:HB	1:A:1247:MET:HE3	1.75	0.67
1:A:937:GLU:O	1:A:1363:THR:HG23	1.94	0.67
1:A:269:PHE:HE1	1:A:287:MET:HB3	1.57	0.67
2:B:829:GLN:HE22	2:B:883:VAL:HG13	1.59	0.67
2:D:1382:ILE:HD12	2:D:1458:VAL:HG22	1.75	0.67
2:D:168:PRO:HD3	2:D:197:TRP:CD1	2.30	0.67
2:D:129:PHE:CE2	2:D:598:ILE:HG23	2.30	0.67
1:A:33:VAL:HG21	1:A:121:TYR:CD1	2.29	0.67
1:A:132:LYS:O	1:A:135:TYR:HE2	1.77	0.67
1:A:432:GLU:HG2	1:A:453:ARG:HB3	1.76	0.67
2:B:521:VAL:HG13	2:B:535:SER:HB3	1.76	0.67
1:C:576:SER:HB3	1:C:577:PRO:CD	2.22	0.67
2:D:239:GLY:H	2:D:296:ARG:HH22	1.39	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:24:LEU:HB3	2:D:46:HIS:HB2	1.77	0.67
1:A:1102:ASN:ND2	1:C:1162:VAL:HG22	2.10	0.67
1:A:975:ARG:NH1	1:A:1340:VAL:HG11	2.10	0.67
1:A:1650:ARG:H	1:A:1650:ARG:HD2	1.60	0.67
1:A:228:SER:O	1:A:252:ALA:HA	1.95	0.67
1:A:425:PRO:O	1:A:428:VAL:HG12	1.94	0.67
1:A:576:SER:HB3	1:A:577:PRO:CD	2.23	0.67
1:A:591:ASN:HB3	1:A:785:GLN:HE21	1.59	0.67
1:A:791:PRO:CG	1:A:797:TRP:HE1	2.06	0.67
2:B:192:VAL:HG22	2:B:193:SER:N	2.09	0.67
2:B:76:ASN:HB2	2:B:77:PRO:HD2	1.75	0.67
1:C:1003:LEU:HD11	1:C:1286:SER:HA	1.75	0.67
1:C:1560:ALA:HB1	1:C:1620:MET:HG2	1.77	0.67
1:C:174:VAL:HG22	1:C:175:GLU:N	2.09	0.67
1:C:489:LYS:CG	1:C:490:SER:N	2.58	0.67
1:C:500:ASN:CB	1:C:543:TYR:HE1	2.06	0.67
1:C:941:GLY:O	1:C:942:VAL:HG13	1.94	0.67
1:A:234:GLU:HG3	1:A:235:TYR:CD2	2.29	0.67
2:B:1284:ARG:CG	2:B:1285:GLU:N	2.58	0.67
2:B:1520:VAL:HG11	2:B:1584:TRP:CD1	2.30	0.67
2:B:563:MET:HG3	2:B:780:LEU:HD23	1.76	0.67
2:B:829:GLN:HA	2:B:885:VAL:HG12	1.76	0.67
1:C:1127:ILE:HG13	1:C:1143:TYR:HE2	1.60	0.67
1:C:516:GLU:H	1:C:516:GLU:CD	1.97	0.67
2:D:1273:LEU:CB	2:D:1319:GLY:HA3	2.24	0.67
1:A:475:ALA:HB1	1:A:477:LEU:HD21	1.76	0.67
1:A:765:ILE:HD13	1:A:767:SER:O	1.94	0.67
2:B:482:LEU:HD12	2:B:482:LEU:N	2.10	0.67
2:B:548:LEU:HD22	2:B:793:SER:CB	2.21	0.67
1:A:1056:ILE:HD13	1:A:1056:ILE:C	2.15	0.67
1:A:174:VAL:HG22	1:A:175:GLU:N	2.09	0.67
1:A:415:ASP:HB2	1:A:417:VAL:HB	1.77	0.67
2:B:29:THR:HB	2:B:41:ILE:HG22	1.77	0.67
1:C:551:THR:O	1:C:552:ALA:HB2	1.93	0.67
1:C:591:ASN:HB3	1:C:785:GLN:HE21	1.60	0.67
2:D:265:PHE:CE2	2:D:294:LEU:HB2	2.30	0.67
2:D:563:MET:HB3	2:D:778:PHE:HE2	1.57	0.67
2:B:218:LYS:HD3	2:B:822:TYR:HE2	1.59	0.67
1:C:39:ILE:HD11	1:C:104:LEU:HD21	1.78	0.67
1:C:489:LYS:C	1:C:491:PRO:CD	2.63	0.67
1:C:710:THR:HG23	1:C:713:GLN:NE2	2.10	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:90:LYS:O	1:C:91:GLN:NE2	2.28	0.67
2:D:183:PHE:CD2	2:D:183:PHE:N	2.62	0.67
2:D:508:LEU:HD12	2:D:509:HIS:N	2.10	0.67
1:A:504:LEU:HD21	1:A:651:LEU:CG	2.26	0.66
1:A:500:ASN:HB2	1:A:543:TYR:CE1	2.30	0.66
1:C:1561:TYR:HD1	1:C:1581:LEU:HD21	1.57	0.66
1:C:180:ILE:HG21	1:C:599:TRP:CE3	2.30	0.66
1:C:473:HIS:CE1	2:D:455:LYS:NZ	2.63	0.66
1:A:490:SER:N	1:A:491:PRO:HD2	2.09	0.66
1:A:640:LEU:H	1:A:644:ASN:HB3	1.60	0.66
2:B:511:THR:O	2:B:514:LEU:HG	1.95	0.66
1:C:1239:VAL:O	1:C:1239:VAL:HG12	1.96	0.66
1:C:791:PRO:CG	1:C:797:TRP:HE1	2.08	0.66
2:D:214:PHE:HD1	2:D:214:PHE:O	1.78	0.66
1:A:101:TYR:HE1	1:A:116:ARG:CZ	2.07	0.66
1:A:153:LYS:HB2	1:A:154:PRO:CD	2.25	0.66
1:A:1539:LEU:O	1:A:1540:ASP:HB3	1.94	0.66
1:A:1560:ALA:HB3	1:A:1585:TYR:CE2	2.31	0.66
1:A:982:LEU:N	1:A:982:LEU:HD12	2.10	0.66
2:B:531:ILE:HD11	2:B:634:LEU:CD2	2.24	0.66
1:C:1127:ILE:CG1	1:C:1143:TYR:CE2	2.79	0.66
1:C:1227:PHE:CD1	1:C:1227:PHE:C	2.68	0.66
1:C:1244:THR:HB	1:C:1247:MET:HE3	1.76	0.66
1:C:1563:VAL:HG21	1:C:1619:ILE:HD12	1.77	0.66
2:D:147:VAL:H	2:D:183:PHE:HZ	1.42	0.66
2:D:410:PRO:HA	2:D:431:THR:HG22	1.77	0.66
2:D:844:ILE:HG13	2:D:872:ILE:HG12	1.77	0.66
2:D:889:GLN:HE21	2:D:890:GLY:N	1.93	0.66
1:A:160:VAL:O	1:A:160:VAL:HG12	1.94	0.66
2:B:524:TYR:HE1	2:B:532:VAL:HG12	1.61	0.66
1:C:1012:LEU:HD13	1:C:1081:PHE:HD2	1.59	0.66
1:C:1132:THR:HG22	1:C:1133:LEU:H	1.61	0.66
1:C:1493:PHE:HD1	1:C:1494:THR:N	1.92	0.66
2:D:851:LEU:HD23	2:D:852:TYR:N	2.05	0.66
1:A:1381:ILE:HD12	1:A:1493:PHE:CD2	2.30	0.66
1:A:1573:VAL:HG12	1:A:1603:LYS:HB3	1.76	0.66
1:A:1568:ILE:HG23	1:A:1577:TYR:HE1	1.60	0.66
1:A:495:LYS:HA	1:A:495:LYS:CE	2.21	0.66
1:C:1186:PHE:CD1	1:C:1250:THR:HG22	2.30	0.66
1:C:30:ILE:HG23	1:C:118:PRO:HB2	1.77	0.66
1:C:1016:VAL:HG11	1:C:1291:ILE:HG13	1.76	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:439:ALA:HB3	1:C:442:LEU:HD12	1.78	0.66
2:D:29:THR:HB	2:D:41:ILE:HG22	1.76	0.66
1:A:1226:ARG:CZ	1:A:1266:TYR:HE1	2.09	0.66
1:A:1239:VAL:HG12	1:A:1239:VAL:O	1.96	0.66
1:A:551:THR:O	1:A:552:ALA:HB2	1.94	0.66
1:C:1381:ILE:O	1:C:1382:ASP:HB3	1.96	0.66
1:C:1479:ILE:N	1:C:1479:ILE:HD13	2.11	0.66
1:C:373:VAL:HG23	1:C:418:ALA:HB3	1.78	0.66
1:C:365:PRO:HG2	1:C:464:TYR:HE2	1.57	0.66
1:C:475:ALA:HB1	1:C:477:LEU:HD21	1.76	0.66
1:C:792:ASP:O	1:C:793:SER:HB3	1.94	0.66
2:D:1443:LEU:N	2:D:1443:LEU:HD12	2.10	0.66
2:D:54:LEU:HD21	2:D:75:MET:HE2	1.77	0.66
1:A:111:PHE:HE2	1:A:113:LYS:CB	2.05	0.66
2:B:183:PHE:CD2	2:B:183:PHE:N	2.63	0.66
2:D:347:PHE:O	2:D:349:LYS:N	2.29	0.66
2:D:769:GLN:HB3	2:D:771:ILE:HG12	1.77	0.66
1:A:22:THR:HG21	1:A:656:ASN:O	1.96	0.66
1:A:47:THR:O	1:A:48:GLU:HB2	1.94	0.66
1:A:90:LYS:O	1:A:91:GLN:NE2	2.29	0.66
2:B:266:GLY:HA2	2:B:276:ILE:HG13	1.76	0.66
2:B:613:SER:HA	2:B:620:VAL:HG22	1.78	0.66
1:C:104:LEU:HD12	1:C:105:GLU:N	2.10	0.66
1:C:1053:MET:CE	1:C:1086:LEU:HD22	2.25	0.66
1:C:1627:ILE:CD1	1:C:1629:TYR:HB3	2.25	0.66
1:C:361:LEU:N	1:C:361:LEU:HD12	2.11	0.66
1:C:576:SER:HB2	1:C:589:SER:HB2	1.78	0.66
1:C:470:THR:CG2	2:D:450:THR:HG22	2.25	0.66
2:D:525:GLN:HA	2:D:530:GLU:O	1.95	0.66
2:D:953:ARG:CG	2:D:954:VAL:H	2.07	0.66
1:A:135:TYR:HE1	1:A:141:VAL:HA	1.61	0.66
1:A:128:ILE:HG22	1:A:145:VAL:HG22	1.77	0.66
1:C:228:SER:O	1:C:252:ALA:HA	1.96	0.66
1:C:474:LYS:HD3	1:C:474:LYS:H	1.61	0.66
2:D:1590:LEU:HD23	2:D:1591:LEU:N	2.07	0.66
1:A:1068:VAL:HG13	1:A:1069:TRP:H	1.61	0.65
1:A:1127:ILE:HG13	1:A:1143:TYR:HE2	1.62	0.65
1:A:535:VAL:O	1:A:563:ILE:HG12	1.96	0.65
1:A:887:LYS:H	1:A:887:LYS:HD2	1.61	0.65
1:A:989:SER:O	1:A:993:SER:HB2	1.96	0.65
1:A:412:ARG:HD2	2:B:458:ASP:OD1	1.96	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:615:GLN:HB2	2:B:616:ASN:HD22	1.60	0.65
1:C:123:ASN:OD1	1:C:123:ASN:C	2.33	0.65
1:C:492:TYR:HD2	1:C:493:ILE:H	1.33	0.65
1:C:829:ILE:HG12	1:C:925:LYS:HG2	1.77	0.65
2:D:417:HIS:O	2:D:419:ASP:N	2.28	0.65
1:A:653:PHE:O	1:A:653:PHE:CD1	2.43	0.65
2:B:144:LEU:H	2:B:144:LEU:HD23	1.62	0.65
2:B:769:GLN:HB3	2:B:771:ILE:HG12	1.78	0.65
1:C:594:THR:O	1:C:782:ARG:HD3	1.96	0.65
1:C:681:LYS:HD2	1:C:738:LEU:HD21	1.77	0.65
1:C:781:PRO:O	1:C:782:ARG:HB2	1.96	0.65
2:D:1563:TYR:HB3	2:D:1601:ILE:HD11	1.76	0.65
2:D:476:ILE:HG12	2:D:524:TYR:CD2	2.31	0.65
1:A:576:SER:HB2	1:A:589:SER:HB2	1.78	0.65
2:B:963:ILE:HD11	2:B:1311:ILE:HG12	1.77	0.65
2:B:1474:PRO:HG2	2:B:1475:ASP:OD1	1.96	0.65
2:B:1601:ILE:HD12	2:B:1601:ILE:N	2.12	0.65
1:C:1180:LEU:O	1:C:1182:ALA:N	2.30	0.65
1:C:171:VAL:HG12	1:C:172:ASP:N	2.11	0.65
1:A:1024:TYR:HD2	1:A:1025:LEU:N	1.94	0.65
2:B:1458:VAL:O	2:B:1466:GLU:HG2	1.97	0.65
2:B:269:ILE:HA	2:B:312:HIS:CD2	2.31	0.65
2:B:800:ILE:HG23	2:B:801:CYS:N	2.10	0.65
1:C:1539:LEU:O	1:C:1540:ASP:HB3	1.95	0.65
1:C:955:ARG:NH1	1:C:1352:PHE:HA	2.12	0.65
1:C:955:ARG:O	1:C:1349:SER:HA	1.96	0.65
2:D:1429:LYS:HE3	2:D:1429:LYS:N	2.12	0.65
1:A:1219:LYS:CE	1:A:1239:VAL:HG21	2.27	0.65
1:A:474:LYS:H	1:A:474:LYS:HD3	1.61	0.65
1:A:752:LEU:HD12	1:A:753:HIS:N	2.12	0.65
2:B:958:GLU:HA	2:B:958:GLU:OE1	1.95	0.65
1:C:1031:TRP:CZ3	1:C:1042:LYS:HA	2.30	0.65
1:C:160:VAL:HG12	1:C:160:VAL:O	1.97	0.65
1:C:539:ARG:HE	1:C:633:GLY:HA3	1.61	0.65
1:C:687:ALA:O	1:C:690:TYR:HB3	1.97	0.65
2:D:1473:HIS:HD2	2:D:1474:PRO:HD2	1.59	0.65
2:D:919:GLY:HA2	2:D:1332:GLN:HB3	1.79	0.65
1:A:1024:TYR:HA	1:A:1302:LEU:HD21	1.77	0.65
1:A:849:ARG:HH12	2:B:555:LEU:HD13	1.59	0.65
2:B:237:ILE:O	2:B:306:LEU:HD11	1.95	0.65
1:C:1016:VAL:N	1:C:1017:PRO:CD	2.60	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:506:LYS:HD2	1:C:536:PRO:CD	2.26	0.65
2:D:476:ILE:CG2	2:D:476:ILE:O	2.44	0.65
2:D:218:LYS:HB3	2:D:822:TYR:CE2	2.32	0.65
2:D:40:GLN:HG3	2:D:86:THR:HG23	1.78	0.65
2:B:1408:ILE:CD1	2:B:1425:ILE:HG12	2.27	0.65
2:B:172:LEU:HD12	2:B:173:VAL:H	1.62	0.65
2:B:168:PRO:HG3	2:B:196:THR:C	2.16	0.65
1:C:1024:TYR:CD2	1:C:1025:LEU:N	2.64	0.65
1:C:1219:LYS:HE2	1:C:1239:VAL:HG21	1.79	0.65
1:C:1226:ARG:CZ	1:C:1266:TYR:CE1	2.80	0.65
1:C:1584:ILE:CG2	1:C:1585:TYR:H	2.02	0.65
1:C:490:SER:N	1:C:491:PRO:HD2	2.11	0.65
1:A:99:VAL:HG22	1:A:100:SER:O	1.97	0.65
2:B:115:LEU:HD13	2:B:629:THR:HG22	1.79	0.65
2:B:1500:LEU:C	2:B:1500:LEU:HD12	2.17	0.65
2:B:172:LEU:HD12	2:B:173:VAL:N	2.11	0.65
2:B:417:HIS:O	2:B:419:ASP:N	2.30	0.65
1:C:797:TRP:HA	1:C:797:TRP:CE3	2.32	0.65
2:D:136:ILE:HA	2:D:215:ASP:O	1.95	0.65
1:A:976:ILE:HB	1:A:1362:THR:HG22	1.78	0.65
1:A:1562:LYS:HD2	1:A:1648:TRP:HZ2	1.61	0.65
1:A:196:TYR:CE1	1:A:221:GLU:HB2	2.32	0.65
2:B:1446:PHE:HD2	2:B:1448:VAL:HG22	1.62	0.65
2:B:241:GLU:O	2:B:296:ARG:HD3	1.97	0.65
1:C:1113:LEU:HD23	1:C:1114:ASP:H	1.61	0.65
1:C:1581:LEU:HD12	1:C:1598:ILE:HD11	1.79	0.65
1:C:425:PRO:O	1:C:428:VAL:HG12	1.96	0.65
1:C:127:PHE:CE2	1:C:623:VAL:HG13	2.29	0.65
2:D:613:SER:HA	2:D:620:VAL:HG22	1.79	0.65
1:A:1113:LEU:HD23	1:A:1114:ASP:H	1.61	0.65
1:A:123:ASN:C	1:A:123:ASN:OD1	2.35	0.65
1:A:1575:VAL:HB	1:A:1602:LYS:O	1.97	0.65
2:B:622:GLU:OE2	2:B:637:LYS:HD3	1.97	0.65
2:B:889:GLN:HE21	2:B:890:GLY:N	1.95	0.65
1:C:1431:GLY:O	1:C:1432:ILE:HD13	1.97	0.65
1:C:1124:TYR:HA	1:C:1465:ASN:OD1	1.96	0.65
1:C:47:THR:O	1:C:48:GLU:HB2	1.96	0.65
2:D:1277:ILE:CG2	2:D:1290:TYR:HB2	2.27	0.65
1:A:180:ILE:O	1:A:182:ILE:N	2.30	0.64
1:A:864:GLY:HA3	1:A:907:LEU:CD2	2.27	0.64
1:C:442:LEU:HD23	1:C:443:PRO:HD2	1.79	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:1408:ILE:CD1	2:D:1425:ILE:HG12	2.27	0.64
1:A:1186:PHE:CD1	1:A:1250:THR:HG22	2.31	0.64
1:A:1487:PHE:N	1:A:1487:PHE:CD2	2.64	0.64
2:B:919:GLY:HA2	2:B:1332:GLN:HB3	1.79	0.64
1:C:238:ILE:HG12	1:C:246:PHE:CE1	2.32	0.64
1:C:432:GLU:HG2	1:C:453:ARG:HB3	1.78	0.64
1:C:824:PHE:HD2	1:C:824:PHE:H	1.43	0.64
1:C:871:PRO:CB	1:C:882:LYS:HG3	2.27	0.64
1:C:938:SER:C	1:C:940:SER:H	2.00	0.64
2:D:1274:ASN:HD21	2:D:1293:ASN:HB3	1.62	0.64
1:A:1381:ILE:O	1:A:1382:ASP:HB3	1.98	0.64
1:A:830:PRO:HG3	1:A:1483:PHE:HZ	1.60	0.64
1:A:1493:PHE:HD1	1:A:1494:THR:N	1.94	0.64
1:A:489:LYS:CG	1:A:490:SER:N	2.61	0.64
1:A:849:ARG:NH1	1:A:849:ARG:HG3	2.08	0.64
2:B:1501:ASN:HD22	2:B:1501:ASN:H	1.45	0.64
1:C:415:ASP:HB2	1:C:417:VAL:HB	1.80	0.64
1:C:773:TRP:HZ2	1:C:797:TRP:CD1	2.16	0.64
1:C:969:PRO:O	1:C:971:THR:HG23	1.98	0.64
1:A:681:LYS:HD2	1:A:738:LEU:HD21	1.79	0.64
2:B:1424:ILE:HD13	2:B:1424:ILE:N	2.10	0.64
2:B:547:THR:HG22	2:B:548:LEU:H	1.63	0.64
2:D:294:LEU:HD12	2:D:295:LYS:H	1.62	0.64
1:A:1127:ILE:CG1	1:A:1143:TYR:CE2	2.81	0.64
1:A:1174:PHE:O	1:A:1178:ASN:HB2	1.97	0.64
1:A:1279:ARG:HD3	1:A:1280:TYR:N	2.11	0.64
1:A:1124:TYR:HA	1:A:1465:ASN:OD1	1.97	0.64
1:A:1587:THR:HB	1:A:1591:VAL:HG22	1.80	0.64
1:A:811:VAL:HG12	1:A:811:VAL:O	1.97	0.64
2:B:1285:GLU:O	2:B:1287:PRO:HD3	1.98	0.64
1:C:1019:PHE:C	1:C:1019:PHE:CD2	2.70	0.64
1:C:1084:ARG:HD2	1:C:1154:LYS:HG3	1.80	0.64
1:C:1427:SER:HB3	1:C:1492:THR:HG23	1.79	0.64
2:D:531:ILE:HD11	2:D:634:LEU:CD2	2.26	0.64
1:A:516:GLU:H	1:A:516:GLU:CD	1.99	0.64
1:A:977:LEU:HA	1:A:1361:VAL:CG1	2.27	0.64
2:B:285:ILE:CD1	2:B:285:ILE:H	2.08	0.64
2:B:316:ALA:HB3	2:B:333:GLN:HB3	1.79	0.64
2:B:481:TYR:HE2	2:B:493:GLY:CA	2.11	0.64
2:B:481:TYR:CB	2:B:520:PHE:HE1	2.10	0.64
2:B:598:ILE:CD1	2:B:800:ILE:HG21	2.27	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:762:LEU:N	2:B:762:LEU:HD12	2.12	0.64
2:D:967:GLY:HA2	2:D:1321:ALA:HA	1.80	0.64
2:D:316:ALA:HB3	2:D:333:GLN:HB3	1.78	0.64
2:D:735:ASN:HB3	2:D:869:GLN:HE22	1.63	0.64
1:A:146:TYR:CD1	1:A:182:ILE:HG23	2.32	0.64
1:A:1581:LEU:HD12	1:A:1598:ILE:HD11	1.80	0.64
1:A:363:LEU:O	1:A:363:LEU:HD12	1.97	0.64
1:A:375:VAL:HG11	1:A:386:VAL:HG11	1.79	0.64
1:A:492:TYR:HD2	1:A:493:ILE:H	1.33	0.64
1:A:44:TYR:CB	1:A:545:ILE:HD12	2.26	0.64
1:C:1573:VAL:HG12	1:C:1603:LYS:HB3	1.79	0.64
1:C:307:VAL:HG13	1:C:313:TYR:HB2	1.79	0.64
1:C:905:ILE:HD12	1:C:931:PRO:CD	2.27	0.64
2:D:1429:LYS:HE3	2:D:1429:LYS:H	1.63	0.64
2:D:482:LEU:HD11	2:D:521:VAL:HB	1.79	0.64
1:A:1204:GLN:O	1:A:1208:ILE:HG13	1.98	0.64
2:B:1365:LEU:HD12	2:B:1366:LYS:H	1.62	0.64
1:C:1584:ILE:O	1:C:1585:TYR:HB3	1.97	0.64
1:C:85:LEU:HD22	1:C:85:LEU:N	2.12	0.64
1:A:353:LYS:HE3	1:A:378:SER:HA	1.80	0.64
1:A:871:PRO:CB	1:A:882:LYS:HG3	2.28	0.64
2:B:476:ILE:HG12	2:B:524:TYR:CD2	2.33	0.64
1:C:1053:MET:HE3	1:C:1086:LEU:HD22	1.80	0.64
1:C:146:TYR:CD1	1:C:182:ILE:HG23	2.33	0.64
1:C:1562:LYS:HD2	1:C:1648:TRP:HZ2	1.63	0.64
1:C:243:PHE:CZ	1:C:316:GLU:HB3	2.33	0.64
2:D:1417:MET:HG2	2:D:1443:LEU:HD22	1.80	0.64
1:A:476:LEU:HB3	1:A:563:ILE:HA	1.80	0.64
2:B:1274:ASN:HD21	2:B:1293:ASN:HB3	1.63	0.64
2:B:1417:MET:HG2	2:B:1443:LEU:HD22	1.80	0.64
2:B:476:ILE:O	2:B:476:ILE:CG2	2.46	0.64
1:C:1554:LYS:HG3	1:C:1555:PRO:HD2	1.80	0.64
1:C:24:VAL:HG11	1:C:543:TYR:CE2	2.33	0.64
2:D:521:VAL:HG13	2:D:535:SER:HB3	1.78	0.64
1:A:1644:TRP:NE1	1:A:1646:GLU:OE1	2.31	0.63
1:A:315:LEU:HD12	1:A:318:LEU:HG	1.79	0.63
1:A:33:VAL:HG21	1:A:121:TYR:CE1	2.32	0.63
1:A:710:THR:HG23	1:A:713:GLN:NE2	2.12	0.63
1:C:1421:HIS:HD2	1:C:1422:ALA:N	1.95	0.63
1:C:830:PRO:HG3	1:C:1483:PHE:HZ	1.60	0.63
1:C:984:VAL:HG22	1:C:987:ILE:HD12	1.79	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:115:LEU:HD13	2:D:629:THR:HG22	1.81	0.63
1:A:1082:ALA:O	1:A:1086:LEU:HD23	1.99	0.63
1:A:1560:ALA:HB1	1:A:1620:MET:HG2	1.81	0.63
1:A:1627:ILE:O	1:A:1627:ILE:CG1	2.45	0.63
1:A:788:PHE:HD2	1:A:788:PHE:N	1.96	0.63
1:A:797:TRP:HA	1:A:797:TRP:CE3	2.32	0.63
2:B:563:MET:HB3	2:B:778:PHE:HE2	1.63	0.63
1:C:705:VAL:HA	1:C:739:ARG:NH1	2.13	0.63
1:C:38:ASN:HA	1:C:84:ILE:HG22	1.79	0.63
2:D:1365:LEU:HD12	2:D:1366:LYS:H	1.61	0.63
2:D:738:GLY:O	2:D:901:GLN:HA	1.99	0.63
1:A:44:TYR:HB2	1:A:545:ILE:CD1	2.27	0.63
1:A:781:PRO:O	1:A:782:ARG:HB2	1.97	0.63
2:B:1427:LEU:N	2:B:1427:LEU:HD13	2.14	0.63
2:B:416:ASN:HA	2:B:425:GLN:HE22	1.63	0.63
2:B:464:PHE:HB2	2:B:504:VAL:O	1.97	0.63
1:C:1315:VAL:HG23	1:C:1348:VAL:HG22	1.81	0.63
1:C:219:VAL:O	1:C:219:VAL:HG12	1.98	0.63
1:C:535:VAL:O	1:C:563:ILE:HG12	1.99	0.63
1:A:1234:HIS:HD2	1:A:1236:ASP:H	1.46	0.63
2:B:137:TYR:CE2	2:B:143:VAL:HG22	2.34	0.63
2:B:1609:ARG:HG2	2:B:1609:ARG:NH1	1.94	0.63
2:B:745:ILE:HG21	2:B:897:LYS:HD3	1.80	0.63
1:C:1033:ILE:HG22	1:C:1034:PHE:N	2.12	0.63
1:C:753:HIS:O	1:C:754:MET:CB	2.46	0.63
1:C:765:ILE:HD13	1:C:767:SER:O	1.98	0.63
2:D:175:SER:H	2:D:1300:ALA:HB2	1.63	0.63
2:D:416:ASN:HA	2:D:425:GLN:HE22	1.64	0.63
1:A:1031:TRP:CZ3	1:A:1042:LYS:HA	2.33	0.63
1:A:1431:GLY:HA3	1:A:1483:PHE:CE1	2.34	0.63
1:A:392:ALA:HB2	1:A:433:PHE:HB3	1.79	0.63
1:C:307:VAL:CG1	1:C:313:TYR:HB2	2.28	0.63
1:C:491:PRO:CG	1:C:494:ASP:HB3	2.29	0.63
1:C:572:GLN:HB2	1:C:593:ALA:HB3	1.80	0.63
2:D:851:LEU:CD2	2:D:852:TYR:H	2.02	0.63
1:A:1431:GLY:CA	1:A:1483:PHE:CE1	2.81	0.63
1:A:599:TRP:NE1	1:A:779:LEU:HA	2.14	0.63
2:B:1284:ARG:HD2	2:B:1285:GLU:H	1.62	0.63
2:B:967:GLY:HA2	2:B:1321:ALA:HA	1.81	0.63
1:C:1133:LEU:HB2	1:C:1134:PRO:HD3	1.81	0.63
1:C:1255:LEU:O	1:C:1255:LEU:HD12	1.98	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:820:PHE:O	1:C:821:LYS:HG2	1.98	0.63
1:C:887:LYS:HD2	1:C:887:LYS:H	1.62	0.63
2:D:1458:VAL:O	2:D:1466:GLU:HG2	1.98	0.63
2:D:26:THR:HG22	2:D:630:THR:HG22	1.79	0.63
2:D:524:TYR:CE1	2:D:532:VAL:HG12	2.33	0.63
1:A:1008:ALA:CB	1:A:1078:LEU:HD11	2.26	0.63
1:A:955:ARG:O	1:A:1349:SER:HA	1.98	0.63
1:A:422:LEU:HD12	1:A:422:LEU:H	1.63	0.63
1:A:523:TYR:CZ	2:B:359:PRO:HD2	2.34	0.63
2:B:1491:ARG:HG3	2:B:1492:CYS:N	2.11	0.63
2:B:189:PRO:C	2:B:191:LEU:H	2.02	0.63
1:C:33:VAL:HG21	1:C:121:TYR:CE1	2.33	0.63
1:C:932:GLU:N	1:C:932:GLU:OE1	2.32	0.63
2:D:1289:ARG:O	2:D:1290:TYR:HD1	1.81	0.63
2:D:144:LEU:HD23	2:D:144:LEU:H	1.64	0.63
1:A:171:VAL:HG12	1:A:172:ASP:N	2.13	0.63
1:A:373:VAL:HG23	1:A:418:ALA:HB3	1.81	0.63
1:A:987:ILE:HD11	1:A:1294:ILE:HG23	1.80	0.63
2:B:129:PHE:CE2	2:B:598:ILE:HG23	2.34	0.63
1:C:1128:LYS:C	1:C:1129:LEU:HD23	2.19	0.63
2:D:762:LEU:HD12	2:D:762:LEU:N	2.13	0.63
2:D:82:LEU:HG	2:D:83:VAL:N	2.12	0.63
1:A:1305:LYS:O	1:A:1307:LEU:HD13	1.99	0.63
1:A:1671:ILE:O	1:A:1671:ILE:HG13	1.98	0.63
1:A:627:LEU:HD13	1:A:627:LEU:O	1.99	0.63
1:A:360:PRO:HB3	1:A:636:ALA:HB3	1.80	0.63
1:C:101:TYR:HE1	1:C:116:ARG:CZ	2.12	0.63
1:C:44:TYR:HB2	1:C:545:ILE:CD1	2.28	0.63
1:C:907:LEU:HD12	1:C:908:HIS:N	2.14	0.63
2:D:216:VAL:CG1	2:D:216:VAL:O	2.46	0.63
2:D:856:PHE:CD1	2:D:884:ILE:HD11	2.33	0.63
1:A:1226:ARG:CZ	1:A:1266:TYR:CE1	2.82	0.62
1:A:1304:VAL:HG12	1:A:1305:LYS:N	2.13	0.62
1:A:503:ILE:HB	1:A:511:HIS:HB2	1.81	0.62
2:B:1528:LEU:HD21	2:B:1531:ILE:HD11	1.81	0.62
2:B:595:GLN:O	2:B:598:ILE:HB	1.99	0.62
1:C:1219:LYS:CE	1:C:1239:VAL:HG21	2.28	0.62
1:C:128:ILE:HD11	1:C:214:THR:C	2.19	0.62
1:C:392:ALA:HB2	1:C:433:PHE:HB3	1.80	0.62
2:D:1387:LEU:HB2	2:D:1390:PHE:CD2	2.34	0.62
2:D:1446:PHE:HD2	2:D:1448:VAL:HG22	1.64	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:481:TYR:HE2	2:D:493:GLY:CA	2.12	0.62
2:D:595:GLN:O	2:D:598:ILE:HB	1.99	0.62
2:D:872:ILE:HG22	2:D:878:ARG:HG3	1.81	0.62
1:A:491:PRO:CG	1:A:494:ASP:HB3	2.29	0.62
1:A:941:GLY:O	1:A:942:VAL:HG13	1.99	0.62
1:A:969:PRO:O	1:A:971:THR:HG23	1.99	0.62
2:B:326:SER:HB2	2:B:819:GLN:HG3	1.81	0.62
2:D:128:LEU:O	2:D:129:PHE:CD1	2.52	0.62
2:D:1623:LYS:HB3	2:D:1623:LYS:HZ2	1.64	0.62
2:D:326:SER:HB2	2:D:819:GLN:HG3	1.81	0.62
1:A:1097:GLN:O	1:A:1098:ASN:C	2.37	0.62
1:A:1180:LEU:O	1:A:1182:ALA:N	2.32	0.62
1:A:1213:LYS:HG2	1:A:1266:TYR:CE2	2.32	0.62
1:A:981:GLY:CA	1:A:1333:PHE:HB2	2.29	0.62
2:B:175:SER:H	2:B:1300:ALA:HB2	1.64	0.62
2:B:1443:LEU:HD12	2:B:1443:LEU:N	2.13	0.62
1:C:1304:VAL:HG12	1:C:1305:LYS:N	2.14	0.62
1:C:1560:ALA:HB3	1:C:1585:TYR:CE2	2.34	0.62
1:C:627:LEU:O	1:C:627:LEU:HD13	1.99	0.62
1:C:986:GLU:HG2	1:C:987:ILE:N	2.13	0.62
2:D:1609:ARG:NH1	2:D:1609:ARG:HG2	1.93	0.62
2:D:237:ILE:O	2:D:306:LEU:HD11	1.97	0.62
2:D:247:ILE:HD11	2:D:318:VAL:HG21	1.81	0.62
2:D:407:GLN:NE2	2:D:407:GLN:HA	2.15	0.62
1:A:1593:GLU:HB2	1:A:1596:SER:OG	1.99	0.62
1:A:292:LEU:HA	1:A:297:ALA:HB2	1.80	0.62
1:A:38:ASN:HA	1:A:84:ILE:HG22	1.81	0.62
1:A:42:GLN:HG2	1:A:43:VAL:N	2.15	0.62
1:A:642:ASN:C	1:A:642:ASN:HD22	2.03	0.62
1:C:1127:ILE:CG1	1:C:1143:TYR:HE2	2.12	0.62
1:C:838:GLN:OE1	1:C:1528:VAL:HG12	2.00	0.62
1:C:623:VAL:O	1:C:624:PHE:C	2.38	0.62
2:D:464:PHE:HB2	2:D:504:VAL:O	1.99	0.62
1:A:1008:ALA:O	1:A:1009:GLU:C	2.38	0.62
1:A:1133:LEU:HB2	1:A:1134:PRO:HD3	1.81	0.62
1:A:1431:GLY:C	1:A:1432:ILE:HD13	2.19	0.62
1:A:376:LYS:HA	1:A:381:GLN:O	2.00	0.62
1:A:461:SER:HB2	1:A:553:GLU:OE2	1.99	0.62
1:A:834:VAL:HB	1:A:837:GLU:CD	2.20	0.62
1:A:968:VAL:HG13	1:A:1366:HIS:O	2.00	0.62
2:B:1386:MET:HE2	2:B:1386:MET:HA	1.81	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:216:VAL:HG12	2:B:216:VAL:O	1.97	0.62
1:C:788:PHE:HD2	1:C:788:PHE:N	1.97	0.62
1:C:804:ILE:HG22	1:C:809:ILE:HG13	1.79	0.62
1:C:909:ASN:O	1:C:910:ILE:HG12	1.99	0.62
1:C:936:ARG:NH1	1:C:936:ARG:HG3	2.14	0.62
2:D:137:TYR:CE2	2:D:143:VAL:HG22	2.34	0.62
2:D:958:GLU:OE1	2:D:958:GLU:HA	1.97	0.62
1:A:1024:TYR:CD2	1:A:1025:LEU:N	2.67	0.62
1:A:1068:VAL:HA	1:A:1078:LEU:CD1	2.27	0.62
1:A:1255:LEU:O	1:A:1255:LEU:HD12	1.99	0.62
1:A:504:LEU:HD12	1:A:509:ILE:HA	1.81	0.62
1:A:506:LYS:HD2	1:A:536:PRO:CD	2.29	0.62
1:A:596:MET:CA	1:A:782:ARG:HG2	2.29	0.62
2:B:950:LEU:HD22	2:B:1329:TYR:CE1	2.34	0.62
2:B:200:VAL:O	2:B:200:VAL:HG23	1.99	0.62
2:B:218:LYS:HD3	2:B:822:TYR:CE2	2.34	0.62
1:A:849:ARG:NH2	2:B:555:LEU:HB2	2.15	0.62
1:C:981:GLY:CA	1:C:1333:PHE:HB2	2.29	0.62
1:C:371:ILE:CD1	1:C:433:PHE:CE2	2.82	0.62
1:C:476:LEU:HB3	1:C:563:ILE:HA	1.82	0.62
2:D:1284:ARG:HG3	2:D:1285:GLU:N	2.15	0.62
2:D:1427:LEU:N	2:D:1427:LEU:HD13	2.15	0.62
2:D:131:GLN:OE1	2:D:146:ARG:NH1	2.32	0.62
2:B:40:GLN:HG3	2:B:86:THR:HG23	1.81	0.62
1:C:1143:TYR:CE1	1:C:1147:PHE:HB2	2.34	0.62
1:C:1560:ALA:HB2	1:C:1620:MET:HG2	1.81	0.62
1:C:308:LYS:HG3	1:C:309:GLU:N	2.15	0.62
2:D:944:VAL:HG22	2:D:1312:THR:OG1	1.99	0.62
2:D:285:ILE:CD1	2:D:285:ILE:H	2.10	0.62
1:A:39:ILE:HD11	1:A:104:LEU:HD21	1.82	0.62
1:A:1570:VAL:HG22	1:A:1575:VAL:HG22	1.81	0.62
1:A:970:LYS:HD3	1:A:1640:ASP:OD2	1.99	0.62
2:B:955:PRO:O	2:B:957:THR:HG23	2.00	0.62
1:C:132:LYS:O	1:C:135:TYR:CE2	2.53	0.62
1:C:1431:GLY:CA	1:C:1483:PHE:CE1	2.82	0.62
1:C:353:LYS:HE3	1:C:378:SER:HA	1.82	0.62
1:A:1199:ASP:O	1:A:1199:ASP:CG	2.37	0.62
1:A:1431:GLY:HA3	1:A:1483:PHE:HE1	1.64	0.62
1:A:788:PHE:N	1:A:788:PHE:CD2	2.67	0.62
1:A:792:ASP:O	1:A:793:SER:HB3	1.99	0.62
1:A:999:ILE:HG13	1:A:1000:LEU:N	2.13	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:494:ARG:NH1	2:B:494:ARG:HG3	2.13	0.62
2:B:951:ASP:C	2:B:953:ARG:H	2.02	0.62
1:C:128:ILE:HG22	1:C:145:VAL:HG22	1.81	0.62
1:C:1271:ILE:HD13	1:C:1300:TYR:CZ	2.35	0.62
1:C:1429:PRO:HB2	1:C:1432:ILE:HG13	1.81	0.62
1:C:571:LEU:HA	1:C:593:ALA:O	2.00	0.62
2:D:241:GLU:O	2:D:296:ARG:HD3	2.00	0.62
1:A:1227:PHE:HD2	1:A:1273:TRP:CE2	2.17	0.62
1:A:1315:VAL:HG23	1:A:1348:VAL:HG22	1.82	0.62
1:A:85:LEU:HD22	1:A:85:LEU:N	2.14	0.62
1:A:961:TYR:OH	1:A:1343:ASN:CG	2.37	0.62
2:B:179:ASP:OD1	2:B:181:ASN:HB2	2.00	0.62
2:B:218:LYS:HB3	2:B:822:TYR:CE2	2.35	0.62
2:B:482:LEU:HD11	2:B:521:VAL:HB	1.80	0.62
2:B:82:LEU:HG	2:B:83:VAL:N	2.14	0.62
2:B:953:ARG:CZ	2:B:959:ILE:HD11	2.30	0.62
1:C:1199:ASP:O	1:C:1199:ASP:CG	2.37	0.62
1:C:1234:HIS:HD2	1:C:1236:ASP:H	1.46	0.62
1:C:1587:THR:HB	1:C:1591:VAL:HG22	1.82	0.62
1:C:977:LEU:HD23	1:C:1361:VAL:HG13	1.81	0.62
2:D:1284:ARG:CD	2:D:1285:GLU:N	2.58	0.62
1:A:773:TRP:HZ2	1:A:797:TRP:CD1	2.18	0.61
1:A:905:ILE:HD12	1:A:931:PRO:CD	2.29	0.61
1:C:1012:LEU:O	1:C:1015:VAL:HG12	2.00	0.61
1:C:1127:ILE:HD11	1:C:1143:TYR:CD2	2.35	0.61
1:C:1188:LEU:HD23	1:C:1212:LEU:HD22	1.81	0.61
1:C:696:LYS:NZ	1:C:759:PRO:HG2	2.15	0.61
1:C:797:TRP:HE3	1:C:797:TRP:HA	1.63	0.61
1:C:895:LEU:HD12	1:C:896:VAL:N	2.15	0.61
1:A:754:MET:SD	1:A:755:LYS:N	2.73	0.61
2:B:147:VAL:H	2:B:183:PHE:HZ	1.45	0.61
2:B:247:ILE:HD11	2:B:318:VAL:HG21	1.82	0.61
1:A:423:ASN:CG	2:B:504:VAL:HG22	2.20	0.61
2:B:615:GLN:HB2	2:B:616:ASN:ND2	2.14	0.61
1:C:1083:LEU:CD2	1:C:1104:LEU:HD21	2.30	0.61
1:C:811:VAL:O	1:C:811:VAL:HG12	1.99	0.61
2:D:137:TYR:HB2	2:D:216:VAL:CG2	2.30	0.61
2:D:1601:ILE:HD12	2:D:1601:ILE:N	2.15	0.61
2:D:172:LEU:HD12	2:D:173:VAL:N	2.15	0.61
2:D:31:ALA:O	2:D:119:VAL:HG12	2.00	0.61
2:D:951:ASP:C	2:D:953:ARG:H	2.02	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1271:ILE:HD13	1:A:1300:TYR:CZ	2.36	0.61
1:A:1554:LYS:HG3	1:A:1555:PRO:HD2	1.83	0.61
1:A:551:THR:O	1:A:552:ALA:CB	2.47	0.61
1:A:977:LEU:HA	1:A:1361:VAL:HG13	1.80	0.61
2:B:945:ILE:HD13	2:B:1311:ILE:HB	1.82	0.61
2:B:214:PHE:O	2:B:214:PHE:CD1	2.53	0.61
1:C:25:ILE:H	1:C:655:THR:HG23	1.63	0.61
2:D:1606:TRP:CD1	2:D:1606:TRP:C	2.73	0.61
2:D:1610:TRP:CA	2:D:1628:PHE:HE2	2.11	0.61
2:D:423:GLU:N	2:D:423:GLU:OE2	2.33	0.61
2:D:838:ASN:OD1	2:D:840:VAL:HG23	1.99	0.61
1:A:1127:ILE:HD11	1:A:1143:TYR:CD2	2.35	0.61
1:A:160:VAL:CG2	1:A:175:GLU:HB3	2.30	0.61
1:A:284:GLN:CG	1:A:310:LEU:HD22	2.30	0.61
2:B:1520:VAL:HG11	2:B:1584:TRP:HD1	1.63	0.61
2:B:322:THR:HG21	2:B:326:SER:OG	2.01	0.61
1:C:1451:THR:O	1:C:1452:ASP:CB	2.49	0.61
1:A:1166:THR:O	1:A:1170:LYS:HG2	2.01	0.61
1:A:311:SER:O	1:A:313:TYR:N	2.33	0.61
1:A:655:THR:O	1:A:657:ALA:N	2.33	0.61
1:A:696:LYS:NZ	1:A:759:PRO:HG2	2.16	0.61
1:A:932:GLU:N	1:A:932:GLU:OE1	2.34	0.61
1:A:986:GLU:HG2	1:A:987:ILE:N	2.14	0.61
1:C:1082:ALA:O	1:C:1086:LEU:HD23	2.01	0.61
1:C:520:ASP:OD2	2:D:404:LEU:HB2	2.00	0.61
1:C:754:MET:SD	1:C:755:LYS:N	2.74	0.61
1:C:949:ILE:O	1:C:950:TYR:CD1	2.54	0.61
2:D:1517:GLU:HA	2:D:1517:GLU:OE1	1.98	0.61
2:D:266:GLY:HA2	2:D:276:ILE:HG13	1.81	0.61
1:A:1033:ILE:HG22	1:A:1034:PHE:N	2.14	0.61
1:A:371:ILE:CD1	1:A:433:PHE:CE2	2.83	0.61
1:A:572:GLN:HB2	1:A:593:ALA:HB3	1.81	0.61
1:A:702:GLY:CA	1:A:728:PHE:CE1	2.80	0.61
2:B:407:GLN:NE2	2:B:407:GLN:HA	2.14	0.61
2:B:501:GLN:HG2	2:B:504:VAL:HG23	1.81	0.61
1:C:1229:LYS:NZ	1:C:1240:PRO:HD2	2.15	0.61
1:C:1570:VAL:O	1:C:1571:GLU:HG3	2.01	0.61
1:C:970:LYS:HD3	1:C:1640:ASP:OD2	2.00	0.61
1:C:551:THR:O	1:C:552:ALA:CB	2.48	0.61
1:C:642:ASN:HD22	1:C:642:ASN:C	2.04	0.61
1:A:1117:SER:HB3	1:A:1174:PHE:CE2	2.36	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1188:LEU:HD23	1:A:1212:LEU:HD22	1.82	0.61
1:A:532:GLN:HE21	1:A:807:THR:HB	1.66	0.61
2:B:28:ILE:HD12	2:B:42:LEU:HD23	1.82	0.61
1:C:292:LEU:HA	1:C:297:ALA:HB2	1.81	0.61
1:C:690:TYR:CE1	1:C:696:LYS:HD2	2.35	0.61
1:C:990:ALA:HB1	1:C:1000:LEU:HD11	1.82	0.61
2:D:358:MET:HE1	2:D:467:LYS:HD2	1.83	0.61
2:D:745:ILE:O	2:D:745:ILE:HG22	2.00	0.61
1:A:1034:PHE:CE2	1:A:1041:GLU:HG2	2.36	0.61
1:A:231:ILE:HG12	1:A:231:ILE:O	1.99	0.61
1:A:251:LYS:HG2	1:A:296:ILE:HD11	1.82	0.61
1:A:373:VAL:O	1:A:417:VAL:HA	2.01	0.61
1:A:820:PHE:O	1:A:821:LYS:HG2	2.00	0.61
1:A:847:ASN:HD22	1:A:888:VAL:HG13	1.66	0.61
1:A:895:LEU:HD12	1:A:896:VAL:N	2.16	0.61
1:C:1068:VAL:HA	1:C:1078:LEU:CD1	2.28	0.61
1:C:1283:GLY:HA3	1:C:1290:THR:HG23	1.82	0.61
1:C:1381:ILE:HG12	1:C:1382:ASP:N	2.14	0.61
1:C:23:TYR:HA	1:C:43:VAL:HA	1.81	0.61
1:C:742:ILE:HG13	1:C:742:ILE:O	2.01	0.61
1:C:976:ILE:HB	1:C:1362:THR:HG22	1.82	0.61
2:D:1284:ARG:HG3	2:D:1285:GLU:H	1.64	0.61
1:A:1431:GLY:O	1:A:1432:ILE:HD13	2.01	0.61
1:A:265:VAL:O	1:A:289:ASN:HA	2.01	0.61
1:A:838:GLN:OE1	1:A:1528:VAL:HG12	2.01	0.61
2:B:1429:LYS:HE3	2:B:1429:LYS:N	2.14	0.61
2:B:1517:GLU:HA	2:B:1517:GLU:OE1	2.00	0.61
2:B:508:LEU:HD12	2:B:509:HIS:N	2.14	0.61
2:B:735:ASN:HB3	2:B:869:GLN:HE22	1.65	0.61
1:C:455:ILE:HG22	1:C:456:ALA:H	1.66	0.61
2:D:1399:ARG:HG2	2:D:1399:ARG:HH11	1.66	0.61
2:D:261:ALA:N	2:D:285:ILE:HD11	2.15	0.61
2:D:800:ILE:HG23	2:D:801:CYS:N	2.14	0.61
1:A:1003:LEU:HD11	1:A:1286:SER:HA	1.82	0.61
2:B:1534:GLN:HB2	2:B:1539:ILE:HD11	1.83	0.61
2:B:365:TYR:HD1	2:B:395:THR:HG22	1.66	0.61
2:B:816:ILE:HD13	2:B:896:ILE:HG22	1.83	0.61
1:C:161:LEU:HD11	1:C:185:PHE:CD1	2.36	0.61
2:D:1285:GLU:O	2:D:1287:PRO:HD3	2.01	0.61
2:D:524:TYR:HE1	2:D:532:VAL:HG12	1.66	0.61
1:A:238:ILE:HG12	1:A:246:PHE:CE1	2.35	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:270:GLY:HA3	1:A:282:MET:HG3	1.82	0.60
1:A:690:TYR:CE1	1:A:696:LYS:HD2	2.35	0.60
1:A:797:TRP:HA	1:A:797:TRP:HE3	1.64	0.60
1:A:804:ILE:HG22	1:A:809:ILE:HG13	1.83	0.60
2:B:265:PHE:CE2	2:B:294:LEU:HB2	2.36	0.60
1:A:1226:ARG:NH1	1:A:1266:TYR:HE1	1.99	0.60
1:A:180:ILE:HG21	1:A:599:TRP:CE3	2.36	0.60
2:B:916:VAL:HG23	2:B:917:PRO:HD2	1.82	0.60
1:C:1176:LEU:HD21	1:C:1195:LEU:HD21	1.82	0.60
1:C:532:GLN:HE21	1:C:807:THR:HB	1.67	0.60
1:C:591:ASN:HB3	1:C:785:GLN:HG3	1.82	0.60
2:D:963:ILE:HD11	2:D:1311:ILE:HG12	1.81	0.60
2:B:1391:LEU:HB2	2:B:1417:MET:HE2	1.83	0.60
2:B:423:GLU:N	2:B:423:GLU:OE2	2.33	0.60
1:C:160:VAL:CG2	1:C:175:GLU:HB3	2.31	0.60
1:C:1625:LEU:HB3	1:C:1636:ILE:HG22	1.83	0.60
1:C:640:LEU:H	1:C:644:ASN:CB	2.14	0.60
1:C:950:TYR:OH	1:C:1307:LEU:HD21	2.02	0.60
2:D:251:TYR:CE2	2:D:257:VAL:HG22	2.36	0.60
1:A:1000:LEU:O	1:A:1001:THR:HG23	2.01	0.60
1:A:1016:VAL:N	1:A:1017:PRO:CD	2.64	0.60
1:A:1127:ILE:CG1	1:A:1143:TYR:HE2	2.14	0.60
1:A:1016:VAL:HG11	1:A:1291:ILE:HG13	1.82	0.60
1:A:1479:ILE:H	1:A:1479:ILE:HD13	1.65	0.60
1:A:1423:VAL:HG11	1:A:1496:TYR:CZ	2.36	0.60
1:A:307:VAL:CG1	1:A:313:TYR:HB2	2.31	0.60
1:A:84:ILE:HD12	1:A:84:ILE:O	2.01	0.60
2:B:1429:LYS:H	2:B:1429:LYS:HE3	1.66	0.60
2:B:165:PHE:CE2	2:B:199:ILE:HD11	2.35	0.60
1:C:1593:GLU:HB2	1:C:1596:SER:OG	2.01	0.60
2:D:263:VAL:HG23	2:D:283:ILE:HD13	1.83	0.60
2:D:870:PHE:HB2	2:D:871:PRO:HD2	1.82	0.60
1:A:1112:GLN:HB2	1:A:1118:PHE:HE1	1.66	0.60
1:A:930:VAL:HG22	1:A:931:PRO:HD2	1.84	0.60
1:C:39:ILE:CD1	1:C:104:LEU:HD21	2.31	0.60
1:C:596:MET:CA	1:C:782:ARG:HG2	2.32	0.60
2:D:322:THR:HG21	2:D:326:SER:OG	2.01	0.60
1:A:502:LEU:HD22	1:A:509:ILE:HG21	1.83	0.60
1:A:990:ALA:HB1	1:A:1000:LEU:HD11	1.82	0.60
2:B:1387:LEU:HB2	2:B:1390:PHE:CD2	2.37	0.60
2:B:358:MET:HE1	2:B:467:LYS:HD2	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1191:SER:O	1:C:1194:ALA:HB3	2.02	0.60
1:C:1568:ILE:HG23	1:C:1577:TYR:CE1	2.36	0.60
2:D:236:TYR:C	2:D:238:ASP:H	2.05	0.60
2:D:28:ILE:HD12	2:D:42:LEU:HD23	1.83	0.60
2:D:547:THR:HG22	2:D:548:LEU:H	1.67	0.60
2:D:955:PRO:O	2:D:957:THR:HG23	2.00	0.60
1:A:355:ASN:HD22	1:A:355:ASN:N	2.00	0.60
2:B:785:THR:OG1	2:B:786:THR:N	2.29	0.60
1:C:311:SER:O	1:C:313:TYR:N	2.34	0.60
1:C:961:TYR:OH	1:C:1343:ASN:CG	2.40	0.60
1:A:128:ILE:HD11	1:A:214:THR:C	2.22	0.60
1:A:1560:ALA:HB2	1:A:1620:MET:HG2	1.82	0.60
2:B:1611:PRO:HD2	2:B:1628:PHE:CE2	2.37	0.60
1:C:830:PRO:CG	1:C:1483:PHE:HZ	2.14	0.60
2:D:148:PHE:CE2	2:D:792:VAL:HG11	2.36	0.60
1:A:455:ILE:HG22	1:A:456:ALA:H	1.67	0.60
1:A:907:LEU:HD12	1:A:908:HIS:N	2.16	0.60
1:C:1431:GLY:HA3	1:C:1483:PHE:CE1	2.37	0.60
1:C:308:LYS:HG3	1:C:309:GLU:H	1.66	0.60
1:C:599:TRP:NE1	1:C:779:LEU:HA	2.16	0.60
1:C:788:PHE:CD2	1:C:788:PHE:N	2.68	0.60
1:C:844:THR:HG22	1:C:895:LEU:HB2	1.83	0.60
2:D:615:GLN:HB2	2:D:616:ASN:HD22	1.66	0.60
1:A:1132:THR:H	1:A:1135:VAL:HB	1.66	0.60
1:A:1563:VAL:HG21	1:A:1619:ILE:HD12	1.84	0.60
2:B:31:ALA:O	2:B:119:VAL:HG12	2.02	0.60
2:B:148:PHE:CE2	2:B:792:VAL:HG11	2.36	0.60
1:C:1317:TYR:HD2	1:C:1344:ASP:HB3	1.67	0.60
1:C:955:ARG:HG2	1:C:1350:THR:CG2	2.31	0.60
1:C:1431:GLY:CA	1:C:1483:PHE:HE1	2.15	0.60
1:C:1483:PHE:HD1	1:C:1483:PHE:O	1.85	0.60
1:C:177:ILE:HG22	1:C:178:ASP:H	1.67	0.60
1:C:44:TYR:CB	1:C:545:ILE:HD12	2.27	0.60
1:C:655:THR:O	1:C:657:ALA:N	2.35	0.60
1:C:875:HIS:HB2	2:D:901:GLN:NE2	2.17	0.60
1:A:1625:LEU:HB3	1:A:1636:ILE:HG22	1.84	0.59
1:A:492:TYR:CE2	1:A:493:ILE:HB	2.37	0.59
2:B:261:ALA:N	2:B:285:ILE:HD11	2.17	0.59
2:B:745:ILE:O	2:B:745:ILE:HG22	2.01	0.59
1:C:999:ILE:HG13	1:C:1000:LEU:N	2.14	0.59
1:C:1671:ILE:HG13	1:C:1671:ILE:O	2.02	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:315:LEU:HD12	1:C:318:LEU:HG	1.83	0.59
1:C:22:THR:HG21	1:C:656:ASN:O	2.02	0.59
1:C:830:PRO:CG	1:C:1483:PHE:CZ	2.84	0.59
1:C:934:VAL:CG2	1:C:1366:HIS:CD2	2.85	0.59
2:D:1442:ILE:CA	2:D:1443:LEU:HD12	2.32	0.59
2:D:494:ARG:HG3	2:D:494:ARG:NH1	2.14	0.59
2:D:785:THR:OG1	2:D:786:THR:N	2.34	0.59
1:A:864:GLY:HA3	1:A:907:LEU:HD23	1.84	0.59
2:B:1591:LEU:C	2:B:1591:LEU:HD23	2.22	0.59
2:B:478:TYR:CD1	2:B:478:TYR:O	2.55	0.59
2:B:838:ASN:OD1	2:B:840:VAL:HG23	2.03	0.59
1:C:470:THR:HG22	2:D:450:THR:HB	1.84	0.59
2:D:958:GLU:O	2:D:959:ILE:HG13	2.02	0.59
1:A:128:ILE:HD11	1:A:215:ALA:N	2.17	0.59
1:A:1377:PHE:CE1	1:A:1408:TYR:HD1	2.21	0.59
1:A:1434:ALA:HA	1:A:1479:ILE:HG22	1.83	0.59
1:A:219:VAL:HG12	1:A:219:VAL:O	2.00	0.59
1:A:243:PHE:O	1:A:303:SER:HB2	2.02	0.59
2:B:315:TYR:CD1	2:B:315:TYR:O	2.55	0.59
1:C:628:GLU:HA	1:C:630:SER:OG	2.01	0.59
1:C:790:LEU:HD12	1:C:790:LEU:H	1.66	0.59
1:C:968:VAL:HG23	1:C:971:THR:HG21	1.83	0.59
2:D:189:PRO:C	2:D:191:LEU:H	2.05	0.59
1:A:1013:MET:SD	1:A:1016:VAL:HG21	2.42	0.59
1:A:367:ILE:HD13	1:A:466:TYR:CD2	2.38	0.59
1:A:430:VAL:HG22	1:A:455:ILE:HG23	1.83	0.59
1:C:1133:LEU:H	1:C:1133:LEU:HD12	1.67	0.59
1:C:987:ILE:HD11	1:C:1294:ILE:HG23	1.83	0.59
1:C:1431:GLY:HA3	1:C:1483:PHE:HE1	1.67	0.59
1:C:373:VAL:O	1:C:417:VAL:HA	2.03	0.59
1:C:492:TYR:CE2	1:C:493:ILE:HB	2.37	0.59
1:C:133:PRO:HD2	1:C:609:VAL:CG1	2.33	0.59
2:D:133:ASP:HA	2:D:757:TRP:HZ3	1.67	0.59
2:D:1456:VAL:HG12	2:D:1456:VAL:O	2.01	0.59
1:A:101:TYR:CZ	1:C:1305:LYS:HG3	2.38	0.59
1:A:442:LEU:HD23	1:A:443:PRO:HD2	1.83	0.59
1:A:968:VAL:HG23	1:A:971:THR:HG21	1.83	0.59
1:A:974:LYS:O	1:A:1364:VAL:HG12	2.03	0.59
2:B:857:CYS:H	2:B:887:LEU:HD21	1.67	0.59
1:C:1084:ARG:HD2	1:C:1154:LYS:HE3	1.83	0.59
1:C:1186:PHE:HA	1:C:1250:THR:HG22	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:25:ILE:HB	1:C:654:LEU:O	2.03	0.59
1:C:689:LYS:HG2	1:C:699:CYS:SG	2.41	0.59
2:D:1591:LEU:C	2:D:1591:LEU:HD23	2.22	0.59
2:D:355:LYS:N	2:D:355:LYS:HD2	2.17	0.59
2:D:803:ALA:O	2:D:805:PRO:HD3	2.02	0.59
2:D:857:CYS:H	2:D:887:LEU:HD21	1.67	0.59
1:A:128:ILE:HG13	1:A:215:ALA:HB2	1.84	0.59
1:A:640:LEU:HB2	1:A:644:ASN:OD1	2.03	0.59
1:A:595:GLY:HA2	1:A:782:ARG:NH1	2.18	0.59
2:B:1277:ILE:CG2	2:B:1290:TYR:HB2	2.32	0.59
2:B:236:TYR:C	2:B:238:ASP:H	2.06	0.59
2:B:28:ILE:HG12	2:B:628:LEU:HD13	1.83	0.59
2:B:529:ASN:OD1	2:B:529:ASN:O	2.21	0.59
1:C:1008:ALA:O	1:C:1009:GLU:C	2.41	0.59
1:C:1623:GLU:HB2	1:C:1638:PRO:CG	2.33	0.59
1:C:284:GLN:CG	1:C:310:LEU:HD22	2.32	0.59
1:C:382:LEU:HD22	1:C:416:GLY:HA3	1.85	0.59
1:C:504:LEU:HD21	1:C:651:LEU:CG	2.32	0.59
2:D:1534:GLN:HB2	2:D:1539:ILE:HD11	1.85	0.59
2:D:159:LYS:HD3	2:D:180:LEU:HD12	1.85	0.59
2:D:202:LYS:HG3	2:D:203:TYR:N	2.18	0.59
2:D:257:VAL:CG1	2:D:258:GLU:N	2.65	0.59
2:D:786:THR:OG1	2:D:809:ARG:HG3	2.03	0.59
1:A:1429:PRO:HB2	1:A:1432:ILE:HG13	1.85	0.59
1:A:23:TYR:HD1	1:A:23:TYR:O	1.84	0.59
1:A:591:ASN:HB3	1:A:785:GLN:HG3	1.83	0.59
2:B:234:PHE:CD1	2:B:234:PHE:C	2.76	0.59
1:C:1423:VAL:HG11	1:C:1496:TYR:CZ	2.36	0.59
2:D:1500:LEU:HD12	2:D:1500:LEU:C	2.23	0.59
2:D:376:HIS:O	2:D:378:PRO:HD3	2.02	0.59
1:A:1381:ILE:HG12	1:A:1382:ASP:N	2.16	0.59
1:A:1431:GLY:CA	1:A:1483:PHE:HE1	2.16	0.59
2:B:1610:TRP:CA	2:B:1628:PHE:HE2	2.12	0.59
2:B:856:PHE:CD1	2:B:884:ILE:HD11	2.37	0.59
2:B:965:ILE:HG13	2:B:1301:ARG:HB2	1.85	0.59
1:C:1627:ILE:O	1:C:1627:ILE:CG1	2.50	0.59
1:C:265:VAL:O	1:C:289:ASN:HA	2.03	0.59
1:C:488:PRO:HG3	1:C:499:TYR:OH	2.02	0.59
1:A:1012:LEU:HD13	1:A:1081:PHE:CD2	2.37	0.59
1:A:1083:LEU:CD2	1:A:1104:LEU:HD21	2.33	0.59
1:A:1229:LYS:NZ	1:A:1240:PRO:HD2	2.16	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:347:PHE:O	2:B:349:LYS:N	2.36	0.59
2:B:485:ASN:OD1	2:B:486:LYS:HD2	2.03	0.59
1:C:430:VAL:HG11	1:C:453:ARG:NH2	2.16	0.59
1:C:465:LEU:HD12	1:C:488:PRO:HA	1.85	0.59
1:C:632:LEU:HD23	1:C:632:LEU:N	2.17	0.59
2:D:1284:ARG:HD2	2:D:1285:GLU:H	1.65	0.59
2:D:243:PHE:CD1	2:D:314:LEU:HD23	2.38	0.59
2:D:54:LEU:N	2:D:54:LEU:HD23	2.17	0.59
1:A:39:ILE:CD1	1:A:104:LEU:HD21	2.32	0.59
1:A:1307:LEU:H	1:A:1307:LEU:HD22	1.68	0.59
1:A:1421:HIS:CD2	1:A:1421:HIS:C	2.75	0.59
1:A:1451:THR:O	1:A:1452:ASP:CB	2.51	0.59
1:A:1576:LYS:HG2	1:A:1601:ILE:CG2	2.32	0.59
1:A:25:ILE:H	1:A:655:THR:HG23	1.67	0.59
1:A:505:SER:OG	1:A:506:LYS:HD3	2.03	0.59
1:A:753:HIS:O	1:A:754:MET:CB	2.49	0.59
1:A:799:ILE:HG22	1:A:815:VAL:O	2.01	0.59
2:B:26:THR:HG22	2:B:630:THR:HG22	1.85	0.59
1:C:99:VAL:HG22	1:C:100:SER:O	2.02	0.59
1:C:270:GLY:HA3	1:C:282:MET:HG3	1.84	0.59
1:C:505:SER:OG	1:C:506:LYS:HD3	2.02	0.59
1:C:653:PHE:O	1:C:653:PHE:CD1	2.48	0.59
1:C:949:ILE:O	1:C:949:ILE:HG22	2.03	0.59
2:D:104:VAL:HG22	2:D:105:VAL:N	2.17	0.59
1:A:1128:LYS:C	1:A:1129:LEU:HD23	2.23	0.58
1:A:571:LEU:HA	1:A:593:ALA:O	2.04	0.58
1:A:790:LEU:H	1:A:790:LEU:HD12	1.67	0.58
1:A:833:VAL:O	1:A:929:VAL:HA	2.02	0.58
2:B:299:PHE:HE1	2:B:303:PHE:CD2	2.20	0.58
2:B:247:ILE:CD1	2:B:318:VAL:HG21	2.33	0.58
1:C:1226:ARG:NH1	1:C:1266:TYR:HE1	2.00	0.58
1:C:1446:VAL:O	1:C:1446:VAL:HG12	2.01	0.58
1:C:23:TYR:HD1	1:C:23:TYR:O	1.86	0.58
1:C:502:LEU:HD22	1:C:509:ILE:HG21	1.85	0.58
2:D:47:GLY:O	2:D:48:ASP:HB2	2.02	0.58
2:D:745:ILE:O	2:D:745:ILE:CG2	2.51	0.58
2:D:39:GLU:O	2:D:87:ILE:HD12	2.03	0.58
2:D:35:THR:HB	2:D:91:ALA:HB2	1.84	0.58
1:A:1180:LEU:CD2	1:A:1208:ILE:HG12	2.33	0.58
1:A:1232:LEU:O	1:A:1233:GLN:HB3	2.02	0.58
1:A:1560:ALA:O	1:A:1585:TYR:HD2	1.86	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:623:VAL:O	1:A:624:PHE:C	2.39	0.58
1:A:125:PHE:CD1	1:A:627:LEU:HD21	2.38	0.58
1:A:87:ILE:CD1	1:A:87:ILE:N	2.63	0.58
2:B:137:TYR:HB2	2:B:216:VAL:CG2	2.33	0.58
2:B:844:ILE:O	2:B:871:PRO:HA	2.04	0.58
1:C:1204:GLN:O	1:C:1208:ILE:HG13	2.03	0.58
1:C:128:ILE:HD11	1:C:215:ALA:N	2.18	0.58
1:C:1305:LYS:O	1:C:1307:LEU:HD13	2.02	0.58
1:C:503:ILE:HB	1:C:511:HIS:HB2	1.85	0.58
2:D:1620:GLU:HG2	2:D:1621:PHE:CE2	2.38	0.58
2:D:266:GLY:O	2:D:314:LEU:HD12	2.03	0.58
2:D:478:TYR:CD1	2:D:478:TYR:O	2.56	0.58
2:D:950:LEU:HD22	2:D:1329:TYR:CE1	2.37	0.58
1:A:1053:MET:HE2	1:A:1089:VAL:CG2	2.33	0.58
1:A:625:GLN:HG2	1:A:626:PHE:H	1.68	0.58
2:B:266:GLY:O	2:B:314:LEU:HD12	2.02	0.58
2:B:748:ARG:HH12	2:B:784:ILE:HG12	1.68	0.58
2:B:891:LEU:CB	2:B:912:LYS:HD3	2.31	0.58
1:C:171:VAL:HG13	1:C:1054:LEU:HD21	1.84	0.58
1:C:355:ASN:N	1:C:355:ASN:HD22	2.02	0.58
1:C:833:VAL:O	1:C:929:VAL:HA	2.02	0.58
2:D:1527:LYS:HE2	2:D:1578:ASN:OD1	2.03	0.58
2:D:384:PHE:CD1	2:D:400:LEU:HG	2.38	0.58
1:A:830:PRO:CG	1:A:1483:PHE:CZ	2.86	0.58
1:A:573:VAL:HG12	1:A:592:MET:HG2	1.84	0.58
1:A:689:LYS:HG2	1:A:699:CYS:SG	2.43	0.58
1:A:734:VAL:O	1:A:737:GLN:HB2	2.04	0.58
2:B:1442:ILE:CA	2:B:1443:LEU:HD12	2.34	0.58
2:B:1475:ASP:N	2:B:1475:ASP:OD1	2.27	0.58
2:B:476:ILE:HD11	2:B:524:TYR:HB2	1.86	0.58
2:B:133:ASP:HA	2:B:757:TRP:HZ3	1.68	0.58
2:B:870:PHE:HB2	2:B:871:PRO:HD2	1.85	0.58
2:B:39:GLU:O	2:B:87:ILE:HD12	2.03	0.58
2:B:69:PHE:CG	2:B:87:ILE:HG22	2.38	0.58
2:B:953:ARG:CG	2:B:954:VAL:N	2.67	0.58
1:C:375:VAL:HG11	1:C:386:VAL:HG11	1.85	0.58
1:C:862:VAL:HB	1:C:865:ILE:HD11	1.86	0.58
1:C:980:LYS:HD3	1:C:986:GLU:HA	1.86	0.58
2:D:1371:TYR:CG	2:D:1377:SER:HB3	2.38	0.58
2:D:172:LEU:HD12	2:D:173:VAL:H	1.67	0.58
1:A:117:MET:HB2	1:A:118:PRO:CD	2.33	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:292:LEU:HD13	1:A:296:ILE:O	2.03	0.58
1:A:308:LYS:HG3	1:A:309:GLU:N	2.19	0.58
1:A:469:TRP:N	1:A:469:TRP:HE3	2.01	0.58
2:B:606:ASP:OD1	2:B:606:ASP:O	2.21	0.58
2:B:885:VAL:HG23	2:B:885:VAL:O	2.01	0.58
1:C:1000:LEU:O	1:C:1001:THR:HG23	2.03	0.58
1:C:550:GLN:O	1:C:550:GLN:HG2	2.03	0.58
1:C:640:LEU:HB2	1:C:644:ASN:OD1	2.04	0.58
1:C:23:TYR:CD1	1:C:655:THR:HB	2.38	0.58
1:C:84:ILE:O	1:C:84:ILE:HD12	2.03	0.58
1:C:977:LEU:HA	1:C:1361:VAL:CG1	2.34	0.58
2:D:261:ALA:CB	2:D:285:ILE:HD11	2.33	0.58
2:D:476:ILE:HD11	2:D:524:TYR:CG	2.38	0.58
2:D:558:MET:HE3	2:D:559:PRO:HD2	1.86	0.58
2:D:628:LEU:HD12	2:D:629:THR:H	1.69	0.58
1:A:640:LEU:H	1:A:644:ASN:CB	2.16	0.58
2:B:100:GLN:HG3	2:B:101:ASN:N	2.19	0.58
2:B:953:ARG:HA	2:B:1330:ASN:O	2.03	0.58
2:B:1606:TRP:CD1	2:B:1606:TRP:C	2.76	0.58
2:B:1620:GLU:HG2	2:B:1621:PHE:CE2	2.39	0.58
2:B:315:TYR:CD1	2:B:315:TYR:C	2.77	0.58
2:B:263:VAL:HG13	2:B:318:VAL:HG23	1.85	0.58
1:C:1381:ILE:HD12	1:C:1493:PHE:CD2	2.38	0.58
1:C:1576:LYS:HG2	1:C:1601:ILE:CG2	2.33	0.58
1:C:502:LEU:HB2	1:C:541:LEU:HD23	1.85	0.58
1:C:576:SER:HB2	1:C:589:SER:CB	2.33	0.58
1:C:799:ILE:HG22	1:C:815:VAL:O	2.04	0.58
2:D:1611:PRO:HD2	2:D:1628:PHE:CE2	2.39	0.58
2:D:243:PHE:HD1	2:D:314:LEU:HD23	1.67	0.58
2:D:69:PHE:CG	2:D:87:ILE:HG22	2.38	0.58
1:A:1012:LEU:O	1:A:1015:VAL:HG12	2.04	0.58
1:A:1147:PHE:O	1:A:1150:ILE:HB	2.04	0.58
2:B:243:PHE:CD1	2:B:314:LEU:HD23	2.38	0.58
1:C:1628:LYS:HB3	1:C:1633:PHE:CD1	2.38	0.58
1:C:243:PHE:O	1:C:303:SER:HB2	2.04	0.58
1:C:469:TRP:HE3	1:C:469:TRP:N	2.01	0.58
1:C:493:ILE:HG21	1:C:495:LYS:HB2	1.85	0.58
1:C:628:GLU:C	1:C:630:SER:N	2.56	0.58
2:D:628:LEU:HD12	2:D:629:THR:N	2.19	0.58
1:A:113:LYS:CG	1:A:114:SER:H	2.14	0.58
1:A:1176:LEU:HD21	1:A:1195:LEU:HD21	1.84	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1641:SER:C	1:A:1643:THR:H	2.06	0.58
1:A:357:VAL:O	1:A:359:THR:HG22	2.04	0.58
1:A:705:VAL:HA	1:A:739:ARG:NH1	2.18	0.58
1:A:77:ASN:HD22	1:A:81:ASN:HB2	1.68	0.58
1:A:857:VAL:CG2	1:A:884:VAL:HG21	2.31	0.58
2:B:263:VAL:HG23	2:B:283:ILE:HD13	1.84	0.58
1:C:1474:CYS:HB3	1:C:1476:ARG:HH12	1.67	0.58
1:C:177:ILE:HG22	1:C:178:ASP:N	2.19	0.58
1:C:367:ILE:HD13	1:C:466:TYR:CD2	2.39	0.58
1:C:625:GLN:HG2	1:C:626:PHE:H	1.68	0.58
2:D:963:ILE:HG12	2:D:1325:ILE:HG12	1.86	0.58
2:D:476:ILE:HG12	2:D:524:TYR:HD2	1.66	0.58
2:D:221:LEU:HD11	2:D:753:LYS:CG	2.29	0.58
1:A:1143:TYR:CE1	1:A:1147:PHE:HB2	2.38	0.58
1:A:243:PHE:CZ	1:A:316:GLU:HB3	2.39	0.58
1:A:382:LEU:HD22	1:A:416:GLY:HA3	1.86	0.58
1:A:23:TYR:HA	1:A:43:VAL:HA	1.84	0.58
2:B:107:GLN:HG3	2:B:116:GLU:HG3	1.86	0.58
2:B:1284:ARG:CD	2:B:1285:GLU:N	2.60	0.58
2:B:1365:LEU:HD12	2:B:1366:LYS:N	2.18	0.58
2:B:1386:MET:HA	2:B:1386:MET:CE	2.34	0.58
2:B:1602:THR:C	2:B:1604:ASN:H	2.05	0.58
2:B:628:LEU:HD12	2:B:629:THR:H	1.69	0.58
2:B:738:GLY:O	2:B:901:GLN:HA	2.03	0.58
1:C:31:PHE:HB2	1:C:119:ILE:HG22	1.86	0.58
1:C:854:GLN:CD	1:C:854:GLN:H	2.07	0.58
2:D:179:ASP:OD1	2:D:181:ASN:HB2	2.03	0.58
1:A:1084:ARG:HD2	1:A:1154:LYS:HE3	1.85	0.58
1:A:1221:ASN:HA	1:A:1222:PRO:C	2.24	0.58
1:A:1568:ILE:HG12	1:A:1577:TYR:CE1	2.39	0.58
1:A:307:VAL:HG13	1:A:313:TYR:HB2	1.84	0.58
1:A:489:LYS:C	1:A:491:PRO:CD	2.63	0.58
1:A:985:GLY:O	1:A:986:GLU:C	2.42	0.58
2:B:130:ILE:HB	2:B:212:ALA:HB2	1.86	0.58
2:B:339:VAL:HG23	2:B:341:SER:N	2.18	0.58
2:B:628:LEU:HD12	2:B:629:THR:N	2.19	0.58
1:C:1033:ILE:CG2	1:C:1034:PHE:CD1	2.87	0.58
1:C:1570:VAL:HG22	1:C:1575:VAL:HG22	1.85	0.58
2:D:1371:TYR:CD1	2:D:1377:SER:HB3	2.39	0.58
2:D:247:ILE:CD1	2:D:318:VAL:HG21	2.34	0.58
2:D:342:PRO:HG2	2:D:420:LEU:HD13	1.84	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:224:LEU:CD2	1:A:225:PRO:HD2	2.24	0.57
1:A:395:ILE:HD12	1:A:395:ILE:O	2.04	0.57
2:B:476:ILE:HD11	2:B:524:TYR:CG	2.39	0.57
1:C:1097:GLN:O	1:C:1098:ASN:C	2.41	0.57
1:C:251:LYS:HG2	1:C:296:ILE:HD11	1.86	0.57
2:D:1365:LEU:HD12	2:D:1366:LYS:N	2.18	0.57
2:D:825:VAL:HB	2:D:828:GLU:OE2	2.04	0.57
2:D:861:THR:O	2:D:863:GLY:N	2.37	0.57
1:A:1033:ILE:HD13	1:A:1333:PHE:HZ	1.69	0.57
1:A:1574:PHE:HA	1:A:1603:LYS:CD	2.35	0.57
1:A:1584:ILE:O	1:A:1585:TYR:HB3	2.02	0.57
1:A:457:TYR:C	1:A:457:TYR:CD2	2.78	0.57
1:A:576:SER:HB2	1:A:589:SER:CB	2.34	0.57
2:B:243:PHE:HD1	2:B:314:LEU:HD23	1.68	0.57
1:C:117:MET:HB2	1:C:118:PRO:CD	2.34	0.57
1:C:128:ILE:HG13	1:C:215:ALA:HB2	1.84	0.57
1:C:316:GLU:O	1:C:349:LEU:HD21	2.04	0.57
1:C:862:VAL:HB	1:C:865:ILE:CD1	2.34	0.57
1:C:903:LEU:HD22	1:C:903:LEU:N	2.19	0.57
1:C:969:PRO:HG3	1:C:1601:ILE:CD1	2.32	0.57
2:D:100:GLN:HG3	2:D:101:ASN:N	2.18	0.57
2:D:234:PHE:C	2:D:234:PHE:CD1	2.77	0.57
1:A:101:TYR:CE1	1:A:116:ARG:NH2	2.73	0.57
1:A:1227:PHE:HD2	1:A:1273:TRP:NE1	2.02	0.57
1:A:161:LEU:HD11	1:A:185:PHE:CD1	2.40	0.57
1:A:502:LEU:HB2	1:A:541:LEU:HD23	1.86	0.57
1:A:24:VAL:HG11	1:A:543:TYR:CE2	2.39	0.57
2:B:953:ARG:HG2	2:B:954:VAL:H	1.69	0.57
1:C:1147:PHE:O	1:C:1150:ILE:HB	2.05	0.57
1:C:469:TRP:CE3	1:C:469:TRP:N	2.72	0.57
2:D:1573:LEU:HB3	2:D:1575:LEU:HD23	1.86	0.57
2:D:23:ALA:HB3	2:D:528:ASN:HD22	1.67	0.57
1:A:1019:PHE:HD2	1:A:1020:TYR:N	2.03	0.57
1:A:614:ARG:NE	1:A:614:ARG:H	2.01	0.57
2:B:885:VAL:HG23	2:B:887:LEU:HD21	1.86	0.57
2:B:961:THR:HG22	2:B:1327:THR:CG2	2.34	0.57
1:C:1132:THR:H	1:C:1135:VAL:HB	1.69	0.57
1:C:1227:PHE:HD2	1:C:1273:TRP:NE1	2.02	0.57
1:C:249:THR:HG23	1:C:298:GLN:HE21	1.69	0.57
1:A:1562:LYS:HD3	1:A:1664:LEU:HD21	1.87	0.57
1:A:238:ILE:HG23	1:A:242:ASN:ND2	2.15	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:250:ILE:HD11	1:A:265:VAL:CG1	2.32	0.57
1:A:365:PRO:HG2	1:A:464:TYR:HE2	1.66	0.57
1:A:692:HIS:HA	1:A:696:LYS:HD3	1.85	0.57
1:A:844:THR:HG22	1:A:895:LEU:HB2	1.85	0.57
1:A:59:TYR:CZ	1:A:99:VAL:HG21	2.39	0.57
2:B:1426:TYR:CD2	2:B:1426:TYR:N	2.72	0.57
1:C:1221:ASN:HA	1:C:1222:PRO:C	2.25	0.57
1:C:1227:PHE:HB2	1:C:1251:THR:HG21	1.86	0.57
1:C:1568:ILE:HG12	1:C:1577:TYR:CE1	2.39	0.57
1:C:1622:LYS:HZ2	1:C:1642:LEU:HD13	1.68	0.57
1:C:231:ILE:O	1:C:231:ILE:HG12	2.02	0.57
1:C:292:LEU:HD13	1:C:296:ILE:O	2.05	0.57
1:C:734:VAL:O	1:C:737:GLN:HB2	2.05	0.57
2:D:315:TYR:CD1	2:D:315:TYR:O	2.58	0.57
2:D:390:THR:HG22	2:D:394:GLY:C	2.24	0.57
1:A:1507:MET:HG3	1:A:1508:PHE:O	2.04	0.57
2:B:944:VAL:HG22	2:B:1312:THR:OG1	2.04	0.57
2:B:1563:TYR:HB3	2:B:1601:ILE:HD11	1.85	0.57
2:B:257:VAL:CG1	2:B:258:GLU:N	2.67	0.57
1:C:395:ILE:O	1:C:395:ILE:HD12	2.04	0.57
1:C:461:SER:O	1:C:462:GLN:HB2	2.02	0.57
1:C:595:GLY:HA2	1:C:782:ARG:NH1	2.20	0.57
2:D:200:VAL:O	2:D:200:VAL:HG23	2.04	0.57
2:D:384:PHE:CE1	2:D:400:LEU:HG	2.39	0.57
2:D:953:ARG:CG	2:D:954:VAL:N	2.68	0.57
1:A:308:LYS:HG3	1:A:309:GLU:H	1.69	0.57
1:A:315:LEU:CD1	1:A:318:LEU:HG	2.34	0.57
1:A:493:ILE:HG21	1:A:495:LYS:HB2	1.85	0.57
1:A:742:ILE:O	1:A:742:ILE:HG13	2.04	0.57
1:A:980:LYS:HD3	1:A:986:GLU:HA	1.87	0.57
2:B:640:SER:O	2:B:641:ALA:HB2	2.04	0.57
1:C:1333:PHE:O	1:C:1334:LEU:CB	2.52	0.57
1:C:161:LEU:HD11	1:C:185:PHE:CG	2.39	0.57
1:C:977:LEU:HD13	1:C:977:LEU:C	2.24	0.57
2:D:1424:ILE:HD13	2:D:1424:ILE:N	2.12	0.57
2:D:1602:THR:C	2:D:1604:ASN:H	2.07	0.57
2:D:226:VAL:HG21	2:D:320:VAL:HG11	1.87	0.57
2:D:953:ARG:CZ	2:D:959:ILE:HD11	2.35	0.57
1:A:1127:ILE:HD11	1:A:1143:TYR:HD2	1.70	0.57
1:A:1323:LEU:HD12	1:A:1324:HIS:N	2.18	0.57
1:A:1570:VAL:O	1:A:1571:GLU:HG3	2.05	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:470:THR:HG22	2:B:450:THR:CG2	2.30	0.57
1:A:540:LEU:C	1:A:540:LEU:HD12	2.25	0.57
1:A:979:VAL:C	1:A:980:LYS:HG2	2.24	0.57
2:B:963:ILE:HG12	2:B:1325:ILE:HG12	1.86	0.57
2:B:793:SER:OG	2:B:801:CYS:HB3	2.04	0.57
2:B:958:GLU:O	2:B:959:ILE:HG13	2.04	0.57
1:C:1034:PHE:CE2	1:C:1041:GLU:HG2	2.40	0.57
1:C:1450:PHE:HB3	1:C:1463:GLN:O	2.04	0.57
1:C:267:ILE:HG22	1:C:268:THR:N	2.20	0.57
1:C:422:LEU:HD12	1:C:422:LEU:H	1.67	0.57
1:C:709:GLU:HB3	1:C:713:GLN:OE1	2.05	0.57
2:D:197:TRP:CB	2:D:214:PHE:CE1	2.85	0.57
1:A:830:PRO:CG	1:A:1483:PHE:HZ	2.16	0.57
1:A:469:TRP:N	1:A:469:TRP:CE3	2.73	0.57
1:A:599:TRP:HE1	1:A:779:LEU:HD13	1.69	0.57
1:A:182:ILE:CG1	1:A:804:ILE:HD11	2.34	0.57
1:A:81:ASN:CG	1:A:82:SER:H	2.09	0.57
1:A:944:LEU:HD12	1:A:1313:ILE:CD1	2.33	0.57
2:B:221:LEU:HD11	2:B:753:LYS:CG	2.31	0.57
2:B:251:TYR:CE2	2:B:257:VAL:HG22	2.39	0.57
1:C:1084:ARG:CD	1:C:1154:LYS:HE3	2.35	0.57
1:C:1352:PHE:CD2	1:C:1353:GLY:N	2.73	0.57
1:C:1617:TYR:HA	1:C:1646:GLU:O	2.04	0.57
1:C:516:GLU:OE1	1:C:516:GLU:N	2.38	0.57
1:C:39:ILE:HG21	1:C:54:ILE:HD13	1.87	0.57
2:D:263:VAL:HG13	2:D:318:VAL:HG23	1.85	0.57
2:D:953:ARG:HA	2:D:1330:ASN:O	2.04	0.57
2:D:965:ILE:HG13	2:D:1301:ARG:HB2	1.87	0.57
1:A:1421:HIS:CD2	1:A:1422:ALA:N	2.72	0.57
1:A:1560:ALA:HB3	1:A:1585:TYR:HE2	1.68	0.57
1:A:457:TYR:C	1:A:457:TYR:HD2	2.08	0.57
1:A:957:LYS:HD2	1:A:958:GLU:H	1.70	0.57
2:B:202:LYS:HG3	2:B:203:TYR:N	2.20	0.57
2:B:766:PRO:HA	2:B:771:ILE:O	2.05	0.57
2:B:825:VAL:HB	2:B:828:GLU:OE2	2.05	0.57
2:B:872:ILE:HG22	2:B:878:ARG:HG3	1.87	0.57
1:C:1166:THR:O	1:C:1170:LYS:HG2	2.05	0.57
1:C:1488:LEU:HD12	1:C:1488:LEU:O	2.05	0.57
1:C:957:LYS:HD2	1:C:958:GLU:H	1.69	0.57
1:C:985:GLY:O	1:C:986:GLU:C	2.42	0.57
2:D:756:LEU:HD22	2:D:778:PHE:CE1	2.40	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:632:LEU:N	1:A:632:LEU:HD23	2.19	0.56
1:A:934:VAL:CG2	1:A:1366:HIS:CD2	2.88	0.56
1:A:967:LEU:HD12	1:A:968:VAL:H	1.70	0.56
2:B:1399:ARG:HG2	2:B:1399:ARG:HH11	1.70	0.56
1:C:1551:THR:O	1:C:1557:ILE:HG13	2.05	0.56
1:C:442:LEU:HD23	1:C:443:PRO:CD	2.35	0.56
1:C:779:LEU:O	1:C:781:PRO:HD3	2.05	0.56
1:C:869:GLU:O	1:C:871:PRO:HD3	2.05	0.56
1:A:1081:PHE:O	1:A:1084:ARG:N	2.38	0.56
1:A:269:PHE:CG	1:A:301:PHE:CE1	2.92	0.56
1:A:501:TYR:O	1:A:501:TYR:HD1	1.88	0.56
1:A:949:ILE:O	1:A:950:TYR:CD1	2.58	0.56
2:B:1512:ILE:O	2:B:1516:CYS:HB2	2.06	0.56
2:B:745:ILE:CG2	2:B:745:ILE:O	2.53	0.56
1:C:1053:MET:HE3	1:C:1086:LEU:CD2	2.34	0.56
1:C:1232:LEU:O	1:C:1233:GLN:HB3	2.05	0.56
1:C:1377:PHE:CE1	1:C:1408:TYR:HD1	2.23	0.56
1:C:224:LEU:HD22	1:C:225:PRO:CD	2.25	0.56
1:C:539:ARG:NE	1:C:633:GLY:HA3	2.19	0.56
2:D:1426:TYR:CD2	2:D:1426:TYR:N	2.73	0.56
2:D:495:GLN:NE2	2:D:496:PRO:HD2	2.20	0.56
2:D:820:MET:CE	2:D:832:ILE:HD13	2.35	0.56
1:A:1227:PHE:CD2	1:A:1273:TRP:CE2	2.93	0.56
1:A:696:LYS:HZ3	1:A:759:PRO:HG2	1.71	0.56
1:C:1420:SER:O	1:C:1421:HIS:C	2.44	0.56
1:C:654:LEU:O	1:C:655:THR:CG2	2.53	0.56
2:D:1346:ASN:O	2:D:1368:CYS:HB2	2.05	0.56
2:D:237:ILE:HD11	2:D:309:LEU:CB	2.34	0.56
1:A:165:ASP:OD2	1:A:165:ASP:C	2.44	0.56
1:A:361:LEU:H	1:A:361:LEU:HD12	1.71	0.56
1:A:39:ILE:HG21	1:A:54:ILE:HD13	1.87	0.56
1:A:869:GLU:O	1:A:871:PRO:HD3	2.05	0.56
2:B:239:GLY:N	2:B:296:ARG:NH2	2.48	0.56
2:B:23:ALA:HB3	2:B:528:ASN:HD22	1.70	0.56
2:B:556:ILE:H	2:B:556:ILE:CD1	1.99	0.56
1:C:1150:ILE:HG22	1:C:1151:GLY:N	2.20	0.56
1:C:1431:GLY:HA2	1:C:1483:PHE:CE1	2.39	0.56
1:C:153:LYS:HB2	1:C:154:PRO:CD	2.31	0.56
1:C:1561:TYR:CE1	1:C:1581:LEU:HD21	2.40	0.56
1:C:443:PRO:HD2	1:C:446:ASN:CB	2.33	0.56
1:C:614:ARG:H	1:C:614:ARG:NE	2.03	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:77:ASN:HD22	1:C:81:ASN:HB2	1.68	0.56
1:C:87:ILE:CD1	1:C:87:ILE:N	2.64	0.56
2:D:165:PHE:CE2	2:D:199:ILE:HD11	2.39	0.56
2:D:191:LEU:HD13	2:D:960:GLU:HB3	1.87	0.56
2:D:523:TYR:CD1	2:D:523:TYR:C	2.79	0.56
2:D:804:GLU:OE1	2:D:805:PRO:HD2	2.05	0.56
2:D:961:THR:HG22	2:D:1327:THR:CG2	2.35	0.56
2:B:1573:LEU:HB3	2:B:1575:LEU:HD23	1.87	0.56
2:B:376:HIS:O	2:B:378:PRO:HD3	2.06	0.56
2:B:476:ILE:HG12	2:B:524:TYR:HD2	1.69	0.56
2:B:803:ALA:O	2:B:805:PRO:HD3	2.05	0.56
1:C:1164:ILE:O	1:C:1165:ASP:C	2.41	0.56
1:C:1479:ILE:H	1:C:1479:ILE:HD13	1.70	0.56
1:C:565:GLU:HG3	1:C:624:PHE:CB	2.35	0.56
1:C:73:LEU:H	1:C:73:LEU:HD23	1.71	0.56
1:C:803:GLY:O	1:C:810:CYS:CB	2.53	0.56
2:D:1491:ARG:HG3	2:D:1492:CYS:N	2.13	0.56
2:D:1607:ILE:H	2:D:1607:ILE:CD1	2.11	0.56
2:D:130:ILE:HB	2:D:212:ALA:HB2	1.88	0.56
2:D:477:LYS:HD3	2:D:477:LYS:N	2.20	0.56
2:D:615:GLN:HB2	2:D:616:ASN:ND2	2.20	0.56
2:D:563:MET:HG3	2:D:780:LEU:CD2	2.35	0.56
2:D:885:VAL:HG23	2:D:885:VAL:O	2.05	0.56
1:A:171:VAL:HG13	1:A:1054:LEU:HD21	1.86	0.56
1:A:1049:LEU:HD11	1:A:1089:VAL:HG13	1.88	0.56
1:A:101:TYR:HE1	1:A:116:ARG:NH2	2.03	0.56
1:A:1474:CYS:HB3	1:A:1476:ARG:HH12	1.69	0.56
1:A:249:THR:HG23	1:A:298:GLN:HE21	1.71	0.56
2:B:1387:LEU:HD12	2:B:1442:ILE:HD11	1.88	0.56
2:B:54:LEU:HD23	2:B:54:LEU:N	2.19	0.56
1:A:116:ARG:HH21	1:C:1305:LYS:CB	2.17	0.56
1:C:1641:SER:C	1:C:1643:THR:H	2.07	0.56
1:C:539:ARG:NH2	1:C:634:CYS:N	2.49	0.56
2:D:173:VAL:O	2:D:173:VAL:HG12	2.06	0.56
2:D:228:LEU:HD22	2:D:247:ILE:HG12	1.87	0.56
2:D:299:PHE:HE1	2:D:303:PHE:CD2	2.23	0.56
1:A:1053:MET:CE	1:A:1086:LEU:HD22	2.34	0.56
1:A:1403:VAL:HG22	1:A:1476:ARG:HB3	1.88	0.56
1:A:1483:PHE:O	1:A:1483:PHE:HD1	1.88	0.56
1:A:23:TYR:CD1	1:A:655:THR:HB	2.40	0.56
2:B:127:PHE:O	2:B:149:SER:HA	2.06	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1560:ALA:O	1:C:1585:TYR:HD2	1.89	0.56
1:C:535:VAL:HG23	1:C:536:PRO:CD	2.27	0.56
2:D:192:VAL:HG22	2:D:193:SER:N	2.19	0.56
2:D:236:TYR:O	2:D:238:ASP:N	2.38	0.56
2:D:582:LYS:O	2:D:583:ALA:O	2.23	0.56
1:A:455:ILE:HG22	1:A:456:ALA:N	2.21	0.56
1:A:628:GLU:HA	1:A:630:SER:OG	2.05	0.56
1:A:653:PHE:CD1	1:A:653:PHE:C	2.79	0.56
1:A:634:CYS:HA	1:A:671:GLU:OE2	2.06	0.56
1:A:690:TYR:HE1	1:A:696:LYS:CD	2.19	0.56
2:B:235:PHE:CE2	2:B:299:PHE:CE2	2.93	0.56
2:B:518:PHE:HE2	2:B:538:VAL:CB	2.19	0.56
1:C:1033:ILE:HD13	1:C:1333:PHE:HZ	1.70	0.56
1:C:1112:GLN:NE2	1:C:1171:ALA:HB2	2.20	0.56
1:C:1224:ILE:HG22	1:C:1225:TYR:CD2	2.41	0.56
1:C:1451:THR:O	1:C:1452:ASP:HB2	2.06	0.56
1:C:576:SER:CB	1:C:589:SER:H	2.18	0.56
2:D:1367:ILE:HD13	2:D:1456:VAL:HG21	1.88	0.56
2:D:541:LYS:O	2:D:543:THR:HG23	2.05	0.56
1:A:1016:VAL:HG21	1:A:1291:ILE:HD12	1.88	0.56
1:A:132:LYS:O	1:A:135:TYR:CE2	2.59	0.56
1:A:1446:VAL:O	1:A:1446:VAL:HG12	2.05	0.56
1:A:1450:PHE:HB3	1:A:1463:GLN:O	2.05	0.56
1:A:1617:TYR:HA	1:A:1646:GLU:O	2.05	0.56
2:B:1305:THR:CG2	2:B:1307:LEU:H	2.17	0.56
2:B:214:PHE:O	2:B:214:PHE:HD1	1.88	0.56
2:B:136:ILE:HA	2:B:215:ASP:O	2.04	0.56
2:B:541:LYS:O	2:B:543:THR:HG23	2.05	0.56
2:B:603:GLU:C	2:B:605:SER:H	2.09	0.56
2:B:861:THR:O	2:B:863:GLY:N	2.38	0.56
1:C:1139:GLU:OE1	1:C:1184:SER:HB3	2.05	0.56
1:C:540:LEU:HD12	1:C:540:LEU:C	2.26	0.56
1:C:827:MET:SD	1:C:843:GLY:HA3	2.46	0.56
2:D:1387:LEU:HD12	2:D:1442:ILE:HD11	1.88	0.56
2:D:501:GLN:HG2	2:D:504:VAL:HG23	1.88	0.56
1:A:1139:GLU:O	1:A:1142:LEU:N	2.38	0.56
1:A:1333:PHE:O	1:A:1334:LEU:CB	2.52	0.56
1:A:1618:LEU:HD13	1:A:1618:LEU:O	2.06	0.56
1:A:1623:GLU:HB2	1:A:1638:PRO:CG	2.35	0.56
1:A:231:ILE:HA	1:A:250:ILE:HG22	1.88	0.56
1:A:628:GLU:C	1:A:630:SER:N	2.57	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:889:GLU:O	1:A:890:GLY:O	2.24	0.56
1:A:96:GLN:HG3	1:A:97:ASN:ND2	2.20	0.56
2:B:104:VAL:HG22	2:B:105:VAL:N	2.18	0.56
2:B:1284:ARG:HG3	2:B:1285:GLU:N	2.20	0.56
2:B:1548:ILE:N	2:B:1548:ILE:HD13	2.21	0.56
2:B:173:VAL:O	2:B:173:VAL:HG12	2.06	0.56
2:B:547:THR:HG22	2:B:548:LEU:N	2.21	0.56
2:B:959:ILE:HG22	2:B:959:ILE:O	2.05	0.56
1:C:1117:SER:HB3	1:C:1174:PHE:CE2	2.41	0.56
1:C:455:ILE:HG22	1:C:456:ALA:N	2.21	0.56
1:A:1554:LYS:HE3	1:A:1556:GLU:OE1	2.06	0.56
1:A:1564:SER:HB2	1:A:1616:GLN:HG3	1.88	0.56
1:A:373:VAL:HG11	1:A:435:VAL:HG11	1.87	0.56
1:A:950:TYR:OH	1:A:1307:LEU:HD21	2.06	0.56
2:B:236:TYR:O	2:B:238:ASP:N	2.39	0.56
2:B:342:PRO:HG2	2:B:420:LEU:HD13	1.86	0.56
2:B:786:THR:OG1	2:B:809:ARG:HG3	2.06	0.56
2:B:829:GLN:HB3	2:B:1471:PHE:HE2	1.71	0.56
1:C:968:VAL:HG13	1:C:1366:HIS:O	2.06	0.56
1:C:182:ILE:CG1	1:C:804:ILE:HD11	2.33	0.56
2:D:963:ILE:CG1	2:D:1325:ILE:HG12	2.36	0.56
1:A:1264:ILE:O	1:A:1267:VAL:HB	2.06	0.55
1:A:1628:LYS:HB3	1:A:1633:PHE:CD1	2.41	0.55
1:A:161:LEU:HD11	1:A:185:PHE:CG	2.42	0.55
1:A:267:ILE:CD1	1:A:299:VAL:HG11	2.34	0.55
1:A:709:GLU:HB3	1:A:713:GLN:OE1	2.06	0.55
2:B:482:LEU:CD1	2:B:521:VAL:HB	2.34	0.55
2:B:757:TRP:O	2:B:758:LEU:HD23	2.06	0.55
2:B:756:LEU:HD22	2:B:778:PHE:CE1	2.41	0.55
1:C:1127:ILE:HD11	1:C:1143:TYR:HD2	1.70	0.55
1:C:125:PHE:CD1	1:C:627:LEU:HD21	2.41	0.55
1:C:1562:LYS:HD3	1:C:1664:LEU:HD21	1.89	0.55
1:C:1574:PHE:HA	1:C:1603:LYS:CD	2.36	0.55
1:C:906:GLY:O	1:C:908:HIS:NE2	2.39	0.55
1:C:930:VAL:HG22	1:C:931:PRO:HD2	1.88	0.55
2:D:518:PHE:HE2	2:D:538:VAL:CB	2.19	0.55
2:D:756:LEU:HD12	2:D:758:LEU:HG	1.88	0.55
2:D:885:VAL:HG23	2:D:887:LEU:HD21	1.87	0.55
1:A:862:VAL:HB	1:A:865:ILE:CD1	2.36	0.55
2:B:191:LEU:HD13	2:B:960:GLU:HB3	1.88	0.55
2:B:355:LYS:HD2	2:B:355:LYS:N	2.21	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:944:LEU:HD12	1:C:1313:ILE:CD1	2.35	0.55
1:C:1377:PHE:CD2	1:C:1495:VAL:HG22	2.41	0.55
1:C:1577:TYR:HB2	1:C:1600:PHE:O	2.06	0.55
1:C:599:TRP:HE1	1:C:779:LEU:HD13	1.71	0.55
1:C:977:LEU:HA	1:C:1361:VAL:HG13	1.86	0.55
2:D:1273:LEU:HD12	2:D:1273:LEU:C	2.27	0.55
2:D:1443:LEU:CD1	2:D:1443:LEU:N	2.69	0.55
2:D:1623:LYS:HZ3	2:D:1623:LYS:HA	1.71	0.55
2:D:322:THR:HG22	2:D:327:ASP:O	2.06	0.55
2:D:485:ASN:OD1	2:D:486:LYS:HD2	2.06	0.55
2:D:870:PHE:HB2	2:D:871:PRO:CD	2.36	0.55
1:A:1118:PHE:HD2	1:A:1148:THR:HG1	1.52	0.55
1:A:1159:CYS:O	1:A:1161:LEU:N	2.32	0.55
1:A:1549:LYS:NZ	1:A:1667:PHE:CB	2.67	0.55
1:A:267:ILE:HG22	1:A:268:THR:N	2.21	0.55
1:A:269:PHE:HB2	1:A:283:MET:HE3	1.87	0.55
1:A:422:LEU:HD12	1:A:422:LEU:N	2.20	0.55
1:A:654:LEU:O	1:A:655:THR:CG2	2.53	0.55
1:A:949:ILE:O	1:A:949:ILE:HG22	2.06	0.55
1:A:981:GLY:HA3	1:A:1333:PHE:HB2	1.87	0.55
2:B:199:ILE:O	2:B:199:ILE:HG22	2.05	0.55
2:B:322:THR:HG22	2:B:327:ASP:O	2.06	0.55
2:B:523:TYR:HB3	2:B:533:ALA:HB2	1.88	0.55
2:B:750:ASP:OD1	2:B:752:PRO:HD3	2.06	0.55
1:C:1139:GLU:O	1:C:1142:LEU:N	2.40	0.55
1:C:1487:PHE:HD2	1:C:1487:PHE:N	2.04	0.55
1:C:1562:LYS:C	1:C:1563:VAL:HG13	2.26	0.55
1:C:1562:LYS:HD2	1:C:1582:LEU:HD11	1.88	0.55
1:C:1622:LYS:NZ	1:C:1642:LEU:HB3	2.21	0.55
1:C:221:GLU:HG2	1:C:222:TYR:O	2.07	0.55
1:C:250:ILE:HD11	1:C:265:VAL:CG1	2.31	0.55
1:C:371:ILE:O	1:C:371:ILE:HG22	2.07	0.55
1:C:457:TYR:C	1:C:457:TYR:CD2	2.79	0.55
1:C:59:TYR:CG	1:C:60:PRO:HD3	2.41	0.55
1:C:653:PHE:HD1	1:C:653:PHE:C	2.09	0.55
2:D:315:TYR:CD1	2:D:315:TYR:C	2.78	0.55
1:A:1186:PHE:HA	1:A:1250:THR:HG22	1.87	0.55
1:A:1622:LYS:HZ2	1:A:1642:LEU:HD13	1.72	0.55
1:A:25:ILE:HB	1:A:654:LEU:O	2.06	0.55
1:A:936:ARG:HH11	1:A:936:ARG:CG	2.17	0.55
1:A:942:VAL:HG11	1:A:957:LYS:CB	2.36	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1447:GLU:HG3	2:B:1447:GLU:O	2.06	0.55
2:B:469:ASN:ND2	2:B:469:ASN:C	2.57	0.55
2:B:850:LEU:HD13	2:B:882:PHE:CD1	2.42	0.55
1:C:1129:LEU:N	1:C:1129:LEU:HD23	2.18	0.55
1:C:1323:LEU:HD12	1:C:1324:HIS:N	2.19	0.55
1:C:560:TRP:CH2	1:C:562:ASN:HB2	2.42	0.55
1:C:919:GLY:HA2	2:D:813:VAL:HG11	1.88	0.55
2:D:529:ASN:O	2:D:529:ASN:OD1	2.24	0.55
1:A:1133:LEU:HD12	1:A:1133:LEU:H	1.72	0.55
1:A:599:TRP:CD1	1:A:779:LEU:HA	2.42	0.55
1:A:938:SER:C	1:A:940:SER:N	2.57	0.55
1:A:976:ILE:HB	1:A:1362:THR:CG2	2.36	0.55
2:B:219:TYR:O	2:B:220:VAL:HG13	2.07	0.55
2:B:756:LEU:HD12	2:B:758:LEU:HG	1.89	0.55
2:B:820:MET:CE	2:B:832:ILE:HD13	2.36	0.55
2:B:918:GLU:OE2	2:B:918:GLU:N	2.39	0.55
1:C:634:CYS:HA	1:C:671:GLU:OE2	2.05	0.55
1:C:653:PHE:CD1	1:C:653:PHE:C	2.80	0.55
1:C:690:TYR:HE1	1:C:696:LYS:CD	2.20	0.55
1:C:938:SER:C	1:C:940:SER:N	2.60	0.55
2:D:1386:MET:HE2	2:D:1472:TYR:OH	2.06	0.55
2:D:339:VAL:HG23	2:D:341:SER:N	2.20	0.55
2:D:603:GLU:C	2:D:605:SER:H	2.10	0.55
2:D:88:GLU:CD	2:D:155:SER:HB2	2.27	0.55
1:A:1019:PHE:CD2	1:A:1020:TYR:N	2.75	0.55
1:A:1488:LEU:O	1:A:1488:LEU:HD12	2.07	0.55
1:A:560:TRP:CE3	1:A:673:LEU:HD22	2.42	0.55
1:A:73:LEU:H	1:A:73:LEU:HD23	1.71	0.55
1:A:984:VAL:HG22	1:A:987:ILE:HD12	1.88	0.55
2:B:384:PHE:CE1	2:B:400:LEU:HG	2.41	0.55
2:B:518:PHE:O	2:B:518:PHE:HD2	1.90	0.55
1:C:1227:PHE:HD2	1:C:1273:TRP:CE2	2.24	0.55
1:C:144:ARG:HD2	1:C:146:TYR:HE1	1.67	0.55
1:C:1403:VAL:HG22	1:C:1476:ARG:HB3	1.89	0.55
1:C:376:LYS:HA	1:C:381:GLN:O	2.05	0.55
1:A:1317:TYR:HD2	1:A:1344:ASP:HB3	1.72	0.55
1:A:1420:SER:O	1:A:1421:HIS:C	2.45	0.55
1:A:54:ILE:HG12	1:A:106:VAL:HG13	1.88	0.55
1:A:127:PHE:CE2	1:A:623:VAL:HG13	2.32	0.55
2:B:216:VAL:O	2:B:216:VAL:CG1	2.54	0.55
2:B:315:TYR:HD1	2:B:315:TYR:O	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:35:THR:HB	2:B:91:ALA:HB2	1.87	0.55
1:C:1507:MET:HG3	1:C:1508:PHE:O	2.07	0.55
1:C:430:VAL:HG22	1:C:455:ILE:HG23	1.88	0.55
1:C:752:LEU:HD12	1:C:752:LEU:C	2.25	0.55
1:C:791:PRO:HG3	1:C:797:TRP:HE1	1.71	0.55
2:D:1528:LEU:HD21	2:D:1531:ILE:HD11	1.89	0.55
2:D:219:TYR:O	2:D:220:VAL:HG13	2.07	0.55
2:D:482:LEU:CD1	2:D:521:VAL:HB	2.36	0.55
2:D:850:LEU:HD13	2:D:882:PHE:CD1	2.42	0.55
2:D:953:ARG:HG2	2:D:954:VAL:H	1.71	0.55
1:A:1549:LYS:HZ2	1:A:1667:PHE:HB3	1.72	0.55
1:A:523:TYR:CE1	2:B:359:PRO:HG2	2.41	0.55
1:A:550:GLN:HG2	1:A:550:GLN:O	2.05	0.55
1:A:539:ARG:NE	1:A:633:GLY:HA3	2.21	0.55
1:A:653:PHE:C	1:A:653:PHE:HD1	2.08	0.55
1:A:862:VAL:HB	1:A:865:ILE:HD11	1.89	0.55
1:A:993:SER:C	1:A:995:GLU:H	2.10	0.55
2:B:963:ILE:CG1	2:B:1325:ILE:HG12	2.37	0.55
1:C:1003:LEU:HD23	1:C:1003:LEU:N	2.22	0.55
1:C:1044:LYS:O	1:C:1047:LYS:HB3	2.07	0.55
1:C:1421:HIS:CD2	1:C:1421:HIS:C	2.78	0.55
1:C:700:TYR:HD2	1:C:701:ASP:N	2.05	0.55
2:D:296:ARG:HG3	2:D:296:ARG:NH1	2.21	0.55
2:D:235:PHE:CE2	2:D:299:PHE:CE2	2.94	0.55
2:D:793:SER:OG	2:D:801:CYS:HB3	2.05	0.55
1:A:1162:VAL:HG22	1:C:1102:ASN:HD22	1.67	0.55
1:A:1431:GLY:HA2	1:A:1483:PHE:CE1	2.41	0.55
1:A:803:GLY:O	1:A:810:CYS:CB	2.55	0.55
2:B:384:PHE:CD1	2:B:400:LEU:HG	2.41	0.55
1:C:296:ILE:HG23	1:C:297:ALA:N	2.21	0.55
1:C:433:PHE:CE1	1:C:452:TYR:HB2	2.42	0.55
1:C:489:LYS:CG	1:C:490:SER:H	2.20	0.55
1:C:115:LYS:CE	1:C:654:LEU:HD11	2.37	0.55
1:C:599:TRP:CD1	1:C:779:LEU:HA	2.42	0.55
2:D:1600:ILE:O	2:D:1602:THR:HG23	2.05	0.55
2:D:476:ILE:HD11	2:D:524:TYR:HB2	1.89	0.55
1:A:1003:LEU:N	1:A:1003:LEU:HD23	2.22	0.55
1:A:1053:MET:HE3	1:A:1086:LEU:HD22	1.89	0.55
1:A:1090:ASN:C	1:A:1092:TYR:H	2.11	0.55
1:A:1252:ALA:O	1:A:1253:TYR:C	2.46	0.55
1:A:331:GLU:HG2	1:A:333:THR:HG23	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:471:ASP:OD2	1:A:474:LYS:HD2	2.07	0.55
1:A:700:TYR:HD2	1:A:701:ASP:N	2.06	0.55
1:A:977:LEU:C	1:A:977:LEU:HD13	2.27	0.55
2:B:138:THR:O	2:B:139:PRO:C	2.44	0.55
1:C:1090:ASN:C	1:C:1092:TYR:H	2.11	0.55
1:C:1180:LEU:CD2	1:C:1208:ILE:HG12	2.37	0.55
1:C:1268:ASN:N	1:C:1269:PRO:CD	2.70	0.55
1:C:272:ARG:O	1:C:321:LYS:HB2	2.07	0.55
1:C:975:ARG:HG3	1:C:1340:VAL:HB	1.89	0.55
2:D:945:ILE:HD13	2:D:1311:ILE:HB	1.89	0.55
2:D:1447:GLU:HG3	2:D:1447:GLU:O	2.07	0.55
2:D:582:LYS:O	2:D:583:ALA:C	2.45	0.55
2:D:750:ASP:OD1	2:D:752:PRO:HD3	2.07	0.55
2:D:748:ARG:HH12	2:D:784:ILE:HG12	1.72	0.55
1:A:1429:PRO:HB2	1:A:1432:ILE:CG1	2.37	0.54
1:A:221:GLU:HG2	1:A:222:TYR:O	2.07	0.54
1:A:433:PHE:HD1	1:A:433:PHE:N	2.05	0.54
1:A:499:TYR:HE2	1:A:517:LYS:HG3	1.72	0.54
1:A:706:ASN:ND2	1:A:709:GLU:H	2.05	0.54
2:B:762:LEU:HD12	2:B:762:LEU:H	1.71	0.54
2:B:834:ALA:O	2:B:835:ILE:HD13	2.07	0.54
1:C:1164:ILE:O	1:C:1167:ALA:N	2.40	0.54
1:C:136:THR:O	1:C:139:GLN:HB2	2.08	0.54
1:C:238:ILE:HG23	1:C:242:ASN:ND2	2.18	0.54
1:C:457:TYR:C	1:C:457:TYR:HD2	2.09	0.54
1:C:979:VAL:C	1:C:980:LYS:HG2	2.28	0.54
2:D:239:GLY:N	2:D:296:ARG:NH2	2.48	0.54
2:D:574:ARG:HG2	2:D:794:PHE:HB3	1.88	0.54
2:D:849:GLU:OE2	2:D:865:ARG:HD2	2.06	0.54
2:D:891:LEU:CB	2:D:912:LYS:HD3	2.36	0.54
2:D:916:VAL:HG22	2:D:917:PRO:N	2.21	0.54
1:A:1045:LEU:O	1:A:1046:LYS:C	2.45	0.54
1:A:1049:LEU:HD11	1:A:1089:VAL:CG1	2.37	0.54
1:A:1304:VAL:CG1	1:A:1305:LYS:N	2.70	0.54
1:A:1560:ALA:O	1:A:1585:TYR:CD2	2.61	0.54
1:A:1561:TYR:CE1	1:A:1581:LEU:HD21	2.41	0.54
1:A:523:TYR:OH	2:B:359:PRO:HD2	2.06	0.54
1:A:59:TYR:CG	1:A:60:PRO:HD3	2.42	0.54
1:A:791:PRO:HG3	1:A:797:TRP:HE1	1.71	0.54
1:A:805:SER:O	1:A:807:THR:N	2.40	0.54
1:C:1019:PHE:HD2	1:C:1020:TYR:N	2.05	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:331:GLU:HG2	1:C:333:THR:HG23	1.88	0.54
1:C:573:VAL:HG12	1:C:592:MET:HG2	1.88	0.54
1:C:692:HIS:HA	1:C:696:LYS:HD3	1.88	0.54
1:C:993:SER:C	1:C:995:GLU:H	2.11	0.54
2:D:1288:ILE:CD1	2:D:1303:VAL:HG21	2.37	0.54
2:D:1623:LYS:HB3	2:D:1623:LYS:NZ	2.22	0.54
2:D:28:ILE:HG12	2:D:628:LEU:HD13	1.88	0.54
2:D:850:LEU:CG	2:D:851:LEU:N	2.69	0.54
1:A:1190:ILE:HG12	1:A:1253:TYR:CE1	2.42	0.54
1:A:1440:LYS:HD3	1:A:1453:TYR:OH	2.07	0.54
1:A:177:ILE:HG22	1:A:178:ASP:H	1.72	0.54
1:A:60:PRO:CD	1:A:61:ASP:N	2.66	0.54
1:A:970:LYS:O	1:A:971:THR:CG2	2.56	0.54
2:B:1371:TYR:CG	2:B:1377:SER:HB3	2.42	0.54
2:B:1528:LEU:HD13	2:B:1542:MET:CE	2.37	0.54
2:B:302:ARG:HG3	2:B:303:PHE:CD1	2.42	0.54
1:C:864:GLY:HA3	1:C:907:LEU:CD2	2.36	0.54
1:C:888:VAL:CG2	1:C:894:HIS:HB2	2.33	0.54
2:D:1390:PHE:O	2:D:1391:LEU:HD23	2.07	0.54
2:D:816:ILE:HD13	2:D:896:ILE:HG22	1.89	0.54
1:C:1049:LEU:HD11	1:C:1089:VAL:HG13	1.89	0.54
1:C:961:TYR:CE2	1:C:1343:ASN:HA	2.43	0.54
1:C:371:ILE:CG2	1:C:420:PHE:HB2	2.37	0.54
1:A:1084:ARG:CD	1:A:1154:LYS:HE3	2.38	0.54
1:A:1451:THR:O	1:A:1452:ASP:HB2	2.08	0.54
1:A:565:GLU:HG3	1:A:624:PHE:CB	2.37	0.54
2:B:88:GLU:OE1	2:B:155:SER:HB2	2.07	0.54
2:B:481:TYR:CE1	2:B:506:MET:SD	2.94	0.54
1:C:156:LYS:HD2	1:C:156:LYS:C	2.27	0.54
2:D:1475:ASP:N	2:D:1475:ASP:OD1	2.25	0.54
2:D:598:ILE:HD11	2:D:800:ILE:HG21	1.90	0.54
1:A:1106:TRP:HE3	1:A:1107:LEU:HD13	1.73	0.54
1:A:1129:LEU:HD23	1:A:1129:LEU:N	2.22	0.54
1:A:309:GLU:O	1:A:312:TYR:N	2.39	0.54
1:A:443:PRO:HD2	1:A:446:ASN:CB	2.36	0.54
2:B:1288:ILE:CD1	2:B:1303:VAL:HG21	2.38	0.54
2:B:1390:PHE:O	2:B:1391:LEU:HD23	2.08	0.54
2:B:1482:ASN:HB3	2:B:1493:ALA:HB3	1.89	0.54
1:C:1023:HIS:CE1	1:C:1302:LEU:HD11	2.43	0.54
1:C:1127:ILE:HD12	1:C:1127:ILE:N	2.14	0.54
1:C:286:ALA:O	1:C:287:MET:C	2.46	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:947:ARG:O	1:C:949:ILE:HG12	2.07	0.54
1:A:1139:GLU:O	1:A:1140:ASN:C	2.45	0.54
1:A:1227:PHE:HB2	1:A:1251:THR:HG21	1.90	0.54
1:A:1283:GLY:HA3	1:A:1290:THR:HG23	1.88	0.54
1:A:955:ARG:CG	1:A:1350:THR:HG23	2.35	0.54
1:A:1582:LEU:HD12	1:A:1583:ASP:H	1.72	0.54
1:A:174:VAL:CG2	1:A:175:GLU:H	2.17	0.54
2:B:401:ASN:C	2:B:402:ILE:HD13	2.28	0.54
2:B:481:TYR:CE2	2:B:493:GLY:CA	2.89	0.54
1:C:1554:LYS:HE3	1:C:1556:GLU:OE1	2.08	0.54
1:C:1534:GLN:HA	1:C:1608:ASN:HD22	1.73	0.54
1:C:967:LEU:HD12	1:C:968:VAL:H	1.72	0.54
1:C:981:GLY:HA3	1:C:1333:PHE:HB2	1.89	0.54
2:D:322:THR:HG21	2:D:326:SER:HG	1.73	0.54
1:A:1093:VAL:O	1:A:1093:VAL:HG12	2.08	0.54
1:A:133:PRO:HD2	1:A:609:VAL:CG1	2.37	0.54
1:A:639:GLY:H	1:A:645:VAL:HG22	1.73	0.54
2:B:558:MET:HE3	2:B:559:PRO:HD2	1.89	0.54
2:B:965:ILE:HG22	2:B:1323:MET:HB2	1.90	0.54
1:C:1093:VAL:O	1:C:1093:VAL:HG12	2.07	0.54
1:C:1317:TYR:CD2	1:C:1344:ASP:HB3	2.43	0.54
1:C:174:VAL:CG2	1:C:175:GLU:H	2.16	0.54
2:D:142:PRO:HB3	2:D:187:ASN:ND2	2.23	0.54
2:D:88:GLU:OE1	2:D:155:SER:HB2	2.07	0.54
1:A:1033:ILE:CG2	1:A:1034:PHE:CD1	2.91	0.54
1:A:1562:LYS:HD2	1:A:1582:LEU:HD11	1.89	0.54
1:A:371:ILE:HD13	1:A:390:LEU:HD21	1.90	0.54
1:A:483:ASN:ND2	2:B:399:ILE:HB	2.22	0.54
1:A:495:LYS:HE2	1:A:495:LYS:CA	2.38	0.54
1:A:576:SER:CB	1:A:589:SER:H	2.20	0.54
2:B:1284:ARG:HD2	2:B:1285:GLU:N	2.22	0.54
2:B:1623:LYS:HB3	2:B:1623:LYS:NZ	2.23	0.54
2:B:495:GLN:NE2	2:B:496:PRO:HD2	2.23	0.54
2:B:800:ILE:CG2	2:B:801:CYS:N	2.69	0.54
1:A:1163:LYS:NZ	1:C:1109:GLU:HG2	2.23	0.54
1:C:1213:LYS:HG2	1:C:1266:TYR:CE2	2.41	0.54
1:C:1429:PRO:HB2	1:C:1432:ILE:CG1	2.37	0.54
1:C:1560:ALA:HB3	1:C:1585:TYR:HE2	1.72	0.54
1:C:373:VAL:HG11	1:C:435:VAL:HG11	1.88	0.54
1:C:365:PRO:HD2	1:C:464:TYR:CE2	2.42	0.54
1:C:974:LYS:O	1:C:1364:VAL:HG12	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:129:PHE:HE2	2:D:598:ILE:HG23	1.70	0.54
2:D:519:ARG:NH1	2:D:606:ASP:OD2	2.40	0.54
1:A:1066:TYR:CD1	1:A:1066:TYR:N	2.74	0.54
1:A:1164:ILE:O	1:A:1167:ALA:N	2.41	0.54
1:A:1573:VAL:C	1:A:1603:LYS:HD2	2.27	0.54
1:A:678:THR:HG21	1:A:742:ILE:HB	1.90	0.54
1:A:934:VAL:CG1	1:A:935:LYS:N	2.71	0.54
2:B:1273:LEU:HD12	2:B:1273:LEU:C	2.29	0.54
2:B:501:GLN:CG	2:B:504:VAL:HG23	2.38	0.54
2:B:829:GLN:CG	2:B:1480:LEU:HD13	2.38	0.54
2:B:814:PHE:CZ	2:B:846:VAL:HG21	2.43	0.54
1:C:1008:ALA:O	1:C:1011:GLU:N	2.40	0.54
1:C:1013:MET:SD	1:C:1016:VAL:HG21	2.48	0.54
1:C:1068:VAL:HG13	1:C:1069:TRP:N	2.23	0.54
1:C:1493:PHE:CD1	1:C:1493:PHE:C	2.79	0.54
1:C:576:SER:HB2	1:C:589:SER:N	2.21	0.54
2:D:1284:ARG:HD2	2:D:1285:GLU:N	2.22	0.54
2:D:1623:LYS:NZ	2:D:1623:LYS:CB	2.71	0.54
2:D:353:TYR:HA	2:D:433:ILE:O	2.07	0.54
1:A:961:TYR:CE2	1:A:1343:ASN:HA	2.43	0.53
1:A:1493:PHE:CD1	1:A:1493:PHE:C	2.79	0.53
1:A:1622:LYS:NZ	1:A:1642:LEU:HB3	2.23	0.53
1:A:1629:TYR:O	1:A:1630:ASN:HB2	2.07	0.53
1:A:24:VAL:O	1:A:24:VAL:HG12	2.08	0.53
1:A:228:SER:HB3	1:A:253:ARG:HG2	1.90	0.53
1:A:115:LYS:CE	1:A:654:LEU:HD11	2.38	0.53
1:A:582:TYR:CE2	1:A:817:ALA:HB1	2.43	0.53
1:A:854:GLN:H	1:A:854:GLN:CD	2.11	0.53
2:B:296:ARG:NH1	2:B:296:ARG:HG3	2.24	0.53
2:B:462:VAL:CG1	2:B:506:MET:HE2	2.38	0.53
1:C:1565:ILE:HB	1:C:1614:GLY:H	1.73	0.53
1:C:1582:LEU:HD12	1:C:1583:ASP:H	1.72	0.53
1:C:222:TYR:HD2	1:C:223:VAL:N	2.05	0.53
2:D:138:THR:O	2:D:139:PRO:C	2.43	0.53
2:D:262:PHE:CD1	2:D:282:ARG:HG3	2.43	0.53
2:D:27:LEU:HD13	2:D:43:VAL:HG23	1.90	0.53
1:A:1008:ALA:O	1:A:1011:GLU:N	2.40	0.53
1:A:1110:ASN:O	1:A:1111:TYR:CG	2.62	0.53
1:A:1268:ASN:H	1:A:1268:ASN:ND2	2.05	0.53
1:A:1268:ASN:N	1:A:1269:PRO:CD	2.71	0.53
1:A:1565:ILE:HB	1:A:1614:GLY:H	1.72	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:698:CYS:C	1:A:700:TYR:H	2.12	0.53
1:A:825:LEU:HD12	1:A:844:THR:O	2.08	0.53
1:C:371:ILE:HD13	1:C:390:LEU:HD21	1.90	0.53
1:C:502:LEU:HB2	1:C:541:LEU:CD2	2.39	0.53
1:C:606:ASP:O	1:C:609:VAL:HG23	2.08	0.53
1:C:823:VAL:HG23	1:C:846:TYR:O	2.08	0.53
2:D:829:GLN:HB3	2:D:1471:PHE:HE2	1.74	0.53
2:D:829:GLN:CG	2:D:1480:LEU:HD13	2.38	0.53
2:D:866:TYR:CD2	2:D:866:TYR:C	2.82	0.53
1:C:875:HIS:CB	2:D:901:GLN:NE2	2.72	0.53
1:A:1352:PHE:CD2	1:A:1353:GLY:N	2.76	0.53
1:A:1619:ILE:HG12	1:A:1645:ILE:CD1	2.38	0.53
1:A:177:ILE:HG22	1:A:178:ASP:N	2.22	0.53
1:A:827:MET:SD	1:A:843:GLY:HA3	2.48	0.53
1:A:969:PRO:HG3	1:A:1601:ILE:CD1	2.37	0.53
2:B:806:TYR:C	2:B:806:TYR:CD1	2.81	0.53
2:B:850:LEU:CG	2:B:851:LEU:N	2.70	0.53
1:C:1106:TRP:HE3	1:C:1107:LEU:HD13	1.72	0.53
1:C:1475:VAL:CG2	1:C:1476:ARG:N	2.71	0.53
1:C:422:LEU:HD12	1:C:422:LEU:N	2.22	0.53
1:C:471:ASP:OD2	1:C:474:LYS:HD2	2.08	0.53
2:D:1292:ILE:HD11	2:D:1301:ARG:HE	1.74	0.53
2:D:184:TRP:HB2	2:D:185:PRO:CD	2.39	0.53
1:C:483:ASN:ND2	2:D:399:ILE:HB	2.24	0.53
2:D:556:ILE:H	2:D:556:ILE:CD1	1.98	0.53
2:D:830:VAL:CG2	2:D:831:GLU:N	2.71	0.53
1:A:1244:THR:HG22	1:A:1246:ARG:N	2.23	0.53
1:A:1548:ARG:HH21	1:A:1550:GLN:HE22	1.56	0.53
1:A:371:ILE:HD11	1:A:433:PHE:CD2	2.44	0.53
1:A:906:GLY:O	1:A:908:HIS:NE2	2.41	0.53
1:C:1548:ARG:HH21	1:C:1550:GLN:HE22	1.56	0.53
1:C:269:PHE:HB2	1:C:283:MET:HE3	1.90	0.53
1:C:889:GLU:O	1:C:890:GLY:O	2.27	0.53
1:C:961:TYR:HD1	1:C:961:TYR:O	1.92	0.53
2:D:547:THR:HG22	2:D:548:LEU:N	2.24	0.53
2:D:563:MET:HA	2:D:563:MET:CE	2.38	0.53
1:A:931:PRO:CB	1:A:1366:HIS:CD2	2.91	0.53
2:B:130:ILE:HA	2:B:147:VAL:HG23	1.91	0.53
2:B:261:ALA:CB	2:B:285:ILE:HD11	2.39	0.53
2:B:342:PRO:HB2	2:B:343:TYR:CD1	2.43	0.53
2:B:574:ARG:HG2	2:B:794:PHE:HB3	1.89	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:820:MET:HE2	2:B:832:ILE:HD13	1.88	0.53
1:C:1304:VAL:CG1	1:C:1305:LYS:N	2.71	0.53
1:C:1565:ILE:HG22	1:C:1566:THR:H	1.72	0.53
1:C:942:VAL:HG11	1:C:957:LYS:CB	2.38	0.53
2:D:25:TYR:CE2	2:D:113:VAL:HG22	2.43	0.53
2:D:646:GLN:CB	2:D:647:PRO:HD2	2.32	0.53
1:A:1226:ARG:O	1:A:1270:VAL:HG22	2.09	0.53
1:A:1577:TYR:HB2	1:A:1600:PHE:O	2.09	0.53
1:A:433:PHE:N	1:A:433:PHE:CD1	2.75	0.53
1:A:442:LEU:HD23	1:A:443:PRO:CD	2.39	0.53
1:A:678:THR:CG2	1:A:742:ILE:HB	2.39	0.53
2:B:1273:LEU:HD12	2:B:1273:LEU:O	2.09	0.53
2:B:1330:ASN:ND2	2:B:1330:ASN:N	2.56	0.53
2:B:1371:TYR:CD1	2:B:1377:SER:HB3	2.43	0.53
2:B:1482:ASN:H	2:B:1495:GLU:HG2	1.74	0.53
2:B:1609:ARG:NH1	2:B:1609:ARG:CG	2.63	0.53
2:B:315:TYR:C	2:B:315:TYR:HD1	2.12	0.53
1:C:1081:PHE:O	1:C:1084:ARG:N	2.42	0.53
1:C:1533:GLY:O	1:C:1534:GLN:CB	2.56	0.53
1:C:1563:VAL:HG22	1:C:1617:TYR:O	2.08	0.53
1:C:185:PHE:HD1	1:C:186:PRO:HD2	1.74	0.53
1:C:433:PHE:N	1:C:433:PHE:HD1	2.07	0.53
1:C:857:VAL:CG2	1:C:884:VAL:HG21	2.37	0.53
2:D:315:TYR:HD1	2:D:315:TYR:O	1.91	0.53
2:D:481:TYR:CE2	2:D:493:GLY:CA	2.90	0.53
1:A:115:LYS:HB2	1:A:654:LEU:CD1	2.38	0.53
2:B:1284:ARG:HG3	2:B:1286:VAL:N	2.21	0.53
2:B:1528:LEU:HD13	2:B:1542:MET:HE2	1.91	0.53
2:B:1621:PHE:O	2:B:1622:GLN:C	2.47	0.53
2:B:819:GLN:HE21	2:B:819:GLN:HA	1.74	0.53
2:B:88:GLU:CD	2:B:155:SER:HB2	2.29	0.53
1:C:1112:GLN:HB2	1:C:1118:PHE:HE1	1.73	0.53
1:C:1244:THR:HG22	1:C:1246:ARG:N	2.23	0.53
1:C:1279:ARG:NH1	1:C:1280:TYR:CE2	2.77	0.53
1:C:1300:TYR:C	1:C:1300:TYR:CD2	2.82	0.53
1:C:1629:TYR:O	1:C:1630:ASN:HB2	2.09	0.53
1:C:473:HIS:HE1	2:D:455:LYS:NZ	2.07	0.53
2:D:789:VAL:C	2:D:790:LEU:HD12	2.28	0.53
1:A:191:PRO:O	1:A:194:PRO:HD3	2.08	0.53
2:B:105:VAL:HG12	2:B:118:VAL:HA	1.91	0.53
2:B:1446:PHE:CD2	2:B:1448:VAL:HG22	2.44	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:224:PHE:CZ	2:B:329:VAL:HG13	2.44	0.53
2:B:415:THR:O	2:B:425:GLN:NE2	2.42	0.53
1:C:1573:VAL:C	1:C:1603:LYS:HD2	2.29	0.53
1:C:1628:LYS:HB3	1:C:1633:PHE:HD1	1.74	0.53
1:C:25:ILE:HD13	1:C:41:ILE:HB	1.90	0.53
1:C:847:ASN:HD22	1:C:888:VAL:HG13	1.72	0.53
2:D:1301:ARG:HB3	2:D:1301:ARG:HH11	1.74	0.53
2:D:1590:LEU:CD2	2:D:1591:LEU:H	2.09	0.53
2:D:523:TYR:HB3	2:D:533:ALA:HB2	1.91	0.53
2:D:819:GLN:HE21	2:D:819:GLN:HA	1.72	0.53
1:A:1411:SER:H	1:A:1414:GLU:HG3	1.73	0.53
1:A:423:ASN:HB3	2:B:501:GLN:HE22	1.73	0.53
1:A:461:SER:O	1:A:462:GLN:HB2	2.07	0.53
1:A:463:SER:HB3	1:A:491:PRO:HA	1.91	0.53
1:A:125:PHE:CE1	1:A:627:LEU:HD21	2.43	0.53
1:A:970:LYS:C	1:A:971:THR:HG23	2.29	0.53
2:B:224:PHE:CE2	2:B:329:VAL:HG13	2.44	0.53
1:C:1268:ASN:H	1:C:1268:ASN:ND2	2.06	0.53
1:C:495:LYS:CA	1:C:495:LYS:HE2	2.38	0.53
2:D:1305:THR:CG2	2:D:1307:LEU:H	2.20	0.53
2:D:342:PRO:HB2	2:D:343:TYR:CD1	2.43	0.53
2:D:841:ASN:O	2:D:842:GLU:C	2.47	0.53
1:A:1139:GLU:OE1	1:A:1184:SER:HB3	2.09	0.53
1:A:1190:ILE:HG12	1:A:1253:TYR:CD1	2.44	0.53
1:A:371:ILE:CG2	1:A:420:PHE:HB2	2.39	0.53
1:A:520:ASP:N	1:A:520:ASP:OD1	2.41	0.53
1:A:573:VAL:CG1	1:A:592:MET:HG2	2.39	0.53
1:A:576:SER:HB2	1:A:589:SER:N	2.22	0.53
2:B:1456:VAL:HG12	2:B:1456:VAL:O	2.09	0.53
2:B:248:THR:HG22	2:B:289:ASP:OD1	2.09	0.53
2:B:646:GLN:CB	2:B:647:PRO:HD2	2.30	0.53
1:C:1183:GLN:NE2	1:C:1232:LEU:HD22	2.23	0.53
1:C:1264:ILE:O	1:C:1267:VAL:HB	2.09	0.53
1:C:433:PHE:N	1:C:433:PHE:CD1	2.77	0.53
1:C:824:PHE:CE2	1:C:846:TYR:HD1	2.27	0.53
1:C:855:PHE:CD1	1:C:855:PHE:C	2.83	0.53
2:D:1284:ARG:NE	2:D:1285:GLU:H	2.07	0.53
1:A:1191:SER:O	1:A:1194:ALA:HB3	2.08	0.52
1:A:1307:LEU:N	1:A:1307:LEU:HD22	2.24	0.52
1:A:1551:THR:O	1:A:1557:ILE:HG13	2.08	0.52
1:A:1562:LYS:C	1:A:1563:VAL:HG13	2.28	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:516:GLU:OE1	1:A:516:GLU:N	2.42	0.52
1:A:598:SER:O	1:A:599:TRP:HD1	1.91	0.52
1:A:706:ASN:HB2	1:A:714:ARG:NH1	2.24	0.52
1:A:779:LEU:O	1:A:781:PRO:HD3	2.09	0.52
2:B:131:GLN:OE1	2:B:146:ARG:NH1	2.41	0.52
2:B:159:LYS:HD3	2:B:180:LEU:HD12	1.91	0.52
2:B:228:LEU:HD22	2:B:247:ILE:HG12	1.91	0.52
1:C:1066:TYR:CD1	1:C:1066:TYR:N	2.75	0.52
1:C:224:LEU:CD2	1:C:225:PRO:HD2	2.28	0.52
1:C:309:GLU:O	1:C:312:TYR:N	2.41	0.52
1:C:308:LYS:HB3	1:C:309:GLU:OE1	2.09	0.52
1:C:23:TYR:CE1	1:C:655:THR:HB	2.43	0.52
1:C:678:THR:HG21	1:C:742:ILE:HB	1.91	0.52
1:C:825:LEU:HD12	1:C:844:THR:O	2.08	0.52
2:D:107:GLN:HG3	2:D:116:GLU:HG3	1.91	0.52
2:D:844:ILE:O	2:D:871:PRO:HA	2.09	0.52
1:A:1022:PHE:O	1:A:1024:TYR:N	2.42	0.52
1:A:1159:CYS:N	1:A:1160:PRO:CD	2.73	0.52
1:A:1562:LYS:HD3	1:A:1648:TRP:HE1	1.74	0.52
1:A:185:PHE:HD1	1:A:186:PRO:HD2	1.73	0.52
1:A:23:TYR:CE1	1:A:655:THR:HB	2.43	0.52
1:A:371:ILE:O	1:A:371:ILE:HG22	2.08	0.52
1:A:433:PHE:CE1	1:A:452:TYR:HB2	2.45	0.52
1:A:535:VAL:HG23	1:A:536:PRO:CD	2.28	0.52
1:A:54:ILE:O	1:A:68:SER:HA	2.09	0.52
1:A:903:LEU:N	1:A:903:LEU:HD22	2.24	0.52
1:A:998:ASN:HB3	1:A:1000:LEU:HG	1.89	0.52
2:B:1443:LEU:CD1	2:B:1443:LEU:N	2.72	0.52
2:B:598:ILE:HD11	2:B:800:ILE:HG21	1.91	0.52
2:B:804:GLU:OE1	2:B:805:PRO:HD2	2.10	0.52
1:C:1268:ASN:HB2	1:C:1269:PRO:HD3	1.91	0.52
1:C:1411:SER:H	1:C:1414:GLU:HG3	1.73	0.52
1:C:1571:GLU:O	1:C:1574:PHE:CD2	2.62	0.52
1:C:501:TYR:HD1	1:C:501:TYR:O	1.91	0.52
1:C:970:LYS:O	1:C:971:THR:CG2	2.57	0.52
2:D:1457:LYS:HG2	2:D:1469:THR:HG1	1.73	0.52
2:D:813:VAL:HG12	2:D:839:TYR:O	2.09	0.52
1:A:1068:VAL:HG21	1:A:1124:TYR:HD1	1.73	0.52
1:A:165:ASP:HB2	1:A:166:PRO:HD2	1.91	0.52
1:A:491:PRO:CG	1:A:494:ASP:CB	2.88	0.52
1:A:824:PHE:CE2	1:A:846:TYR:HD1	2.28	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:840:GLN:NE2	1:A:897:THR:HG21	2.24	0.52
1:A:938:SER:O	1:A:940:SER:N	2.43	0.52
2:B:1527:LYS:HE2	2:B:1578:ASN:OD1	2.09	0.52
2:B:262:PHE:CD1	2:B:282:ARG:HG3	2.44	0.52
2:B:582:LYS:O	2:B:583:ALA:C	2.46	0.52
2:B:813:VAL:HG12	2:B:839:TYR:O	2.08	0.52
2:B:841:ASN:O	2:B:842:GLU:C	2.48	0.52
1:C:1493:PHE:CD1	1:C:1494:THR:N	2.76	0.52
1:C:165:ASP:C	1:C:165:ASP:OD2	2.47	0.52
1:C:307:VAL:O	1:C:308:LYS:O	2.27	0.52
1:C:961:TYR:HB2	1:C:1345:ASP:OD2	2.10	0.52
2:D:762:LEU:HD12	2:D:762:LEU:H	1.74	0.52
1:A:1565:ILE:HG22	1:A:1566:THR:H	1.74	0.52
1:A:560:TRP:CH2	1:A:562:ASN:HB2	2.44	0.52
1:A:606:ASP:O	1:A:609:VAL:HG23	2.09	0.52
1:A:702:GLY:CA	1:A:728:PHE:CD1	2.93	0.52
2:B:1445:HIS:CG	2:B:1446:PHE:N	2.77	0.52
2:B:353:TYR:HA	2:B:433:ILE:O	2.09	0.52
2:B:518:PHE:CD2	2:B:518:PHE:C	2.83	0.52
2:B:829:GLN:HE21	2:B:830:VAL:N	2.07	0.52
2:B:840:VAL:HG12	2:B:841:ASN:H	1.74	0.52
2:B:881:PRO:O	2:B:882:PHE:CD2	2.63	0.52
1:C:1012:LEU:HD13	1:C:1081:PHE:CD2	2.44	0.52
1:C:1161:LEU:O	1:C:1164:ILE:HG12	2.09	0.52
1:C:269:PHE:CG	1:C:301:PHE:CE1	2.97	0.52
1:C:924:VAL:HG21	3:C:2003:NAG:C8	2.38	0.52
2:D:1386:MET:HE2	2:D:1386:MET:HA	1.92	0.52
2:D:1529:LEU:O	2:D:1577:VAL:HG13	2.08	0.52
2:D:766:PRO:HA	2:D:771:ILE:O	2.09	0.52
1:A:1224:ILE:HG22	1:A:1225:TYR:CD2	2.45	0.52
2:B:1326:LEU:HD11	2:B:1328:PHE:CE2	2.44	0.52
2:B:1386:MET:HE2	2:B:1472:TYR:OH	2.09	0.52
2:B:209:ASN:CG	3:B:2001:NAG:C7	2.78	0.52
1:C:1421:HIS:CD2	1:C:1422:ALA:N	2.76	0.52
1:C:191:PRO:HD2	1:C:194:PRO:HB3	1.92	0.52
1:C:560:TRP:CE3	1:C:673:LEU:HD22	2.44	0.52
1:C:96:GLN:HG3	1:C:97:ASN:ND2	2.24	0.52
2:D:1277:ILE:HG22	2:D:1290:TYR:HB2	1.91	0.52
2:D:415:THR:O	2:D:425:GLN:NE2	2.43	0.52
2:D:640:SER:O	2:D:641:ALA:HB2	2.08	0.52
2:D:806:TYR:CD1	2:D:806:TYR:C	2.83	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1300:TYR:CD2	1:A:1300:TYR:C	2.83	0.52
1:A:132:LYS:HZ1	1:A:139:GLN:HE22	1.52	0.52
1:A:1423:VAL:HG11	1:A:1496:TYR:CE1	2.45	0.52
1:A:1590:ALA:HB1	1:A:1635:TYR:CD1	2.44	0.52
1:A:163:PHE:HE2	1:A:201:ILE:HD13	1.74	0.52
1:A:694:VAL:O	1:A:697:LYS:HE3	2.10	0.52
1:A:862:VAL:HB	1:A:865:ILE:HG13	1.92	0.52
1:A:924:VAL:HG21	3:A:2003:NAG:C8	2.38	0.52
2:B:235:PHE:HE2	2:B:299:PHE:CE2	2.28	0.52
2:B:746:ILE:H	2:B:746:ILE:HD13	1.74	0.52
1:C:1031:TRP:CH2	1:C:1042:LYS:HG3	2.45	0.52
1:C:1053:MET:CE	1:C:1089:VAL:HG21	2.39	0.52
1:C:1229:LYS:HZ1	1:C:1240:PRO:HD2	1.74	0.52
1:C:228:SER:HB3	1:C:253:ARG:HG2	1.92	0.52
1:C:238:ILE:HD12	1:C:347:TYR:CE1	2.44	0.52
1:C:998:ASN:HB3	1:C:1000:LEU:HG	1.90	0.52
2:D:1504:GLU:OE2	2:D:1505:ARG:N	2.43	0.52
2:D:409:LEU:C	2:D:409:LEU:HD12	2.30	0.52
1:A:1053:MET:CE	1:A:1089:VAL:HG21	2.38	0.52
1:A:1475:VAL:CG2	1:A:1476:ARG:N	2.72	0.52
1:A:617:LYS:C	1:A:619:PRO:HD2	2.30	0.52
2:B:1290:TYR:CE2	2:B:1301:ARG:HB3	2.45	0.52
2:B:755:TRP:O	2:B:756:LEU:HB3	2.10	0.52
1:C:1023:HIS:O	1:C:1027:THR:HB	2.10	0.52
2:D:127:PHE:O	2:D:149:SER:HA	2.10	0.52
2:D:1354:LEU:HD23	2:D:1354:LEU:O	2.09	0.52
2:D:44:GLU:HG2	2:D:82:LEU:CB	2.36	0.52
2:D:860:SER:OG	2:D:866:TYR:N	2.42	0.52
2:B:1341:ASN:HD22	2:B:1342:LYS:HG2	1.73	0.52
2:B:1480:LEU:HD21	2:B:1483:LYS:NZ	2.25	0.52
2:B:1525:LYS:HD2	2:B:1610:TRP:CH2	2.45	0.52
2:B:822:TYR:O	2:B:914:LYS:HB3	2.10	0.52
1:C:1016:VAL:HG21	1:C:1291:ILE:HD12	1.92	0.52
1:C:1559:TYR:HE1	1:C:1587:THR:HA	1.75	0.52
1:C:267:ILE:CD1	1:C:299:VAL:HG11	2.39	0.52
1:C:365:PRO:CG	1:C:464:TYR:CE2	2.91	0.52
1:C:582:TYR:CE2	1:C:817:ALA:HB1	2.45	0.52
1:C:678:THR:CG2	1:C:742:ILE:HB	2.40	0.52
1:C:698:CYS:C	1:C:700:TYR:H	2.13	0.52
1:C:730:GLU:O	1:C:734:VAL:HG23	2.10	0.52
1:C:840:GLN:NE2	1:C:897:THR:HG21	2.24	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:870:SER:C	1:C:872:VAL:H	2.13	0.52
2:D:1386:MET:CE	2:D:1386:MET:HA	2.39	0.52
2:D:1556:PRO:O	2:D:1558:ALA:N	2.43	0.52
2:D:1621:PHE:O	2:D:1622:GLN:C	2.48	0.52
2:D:27:LEU:O	2:D:628:LEU:HD12	2.10	0.52
2:D:59:HIS:HA	2:D:68:LEU:HD22	1.91	0.52
2:D:952:ASP:N	2:D:952:ASP:OD1	2.43	0.52
1:A:111:PHE:CD2	1:A:112:SER:N	2.76	0.52
1:A:156:LYS:C	1:A:156:LYS:HD2	2.29	0.52
1:A:316:GLU:O	1:A:349:LEU:HD21	2.10	0.52
1:A:430:VAL:HG11	1:A:453:ARG:NH2	2.20	0.52
1:A:489:LYS:CG	1:A:490:SER:H	2.22	0.52
2:B:109:THR:HG22	2:B:114:ARG:HB3	1.91	0.52
2:B:1327:THR:HG22	2:B:1328:PHE:N	2.25	0.52
1:C:101:TYR:CE1	1:C:116:ARG:NH2	2.78	0.52
1:C:113:LYS:CG	1:C:114:SER:H	2.19	0.52
1:C:1190:ILE:HG12	1:C:1253:TYR:CD1	2.45	0.52
1:C:1279:ARG:HB2	1:C:1284:PHE:HB2	1.92	0.52
1:C:1560:ALA:O	1:C:1585:TYR:CD2	2.63	0.52
1:C:371:ILE:HD11	1:C:433:PHE:CD2	2.44	0.52
2:D:365:TYR:HD1	2:D:395:THR:HG22	1.75	0.52
2:D:916:VAL:HG22	2:D:917:PRO:O	2.10	0.52
2:B:25:TYR:CE2	2:B:113:VAL:HG22	2.44	0.52
2:B:1556:PRO:O	2:B:1558:ALA:N	2.43	0.52
2:B:44:GLU:HG2	2:B:82:LEU:CB	2.37	0.52
1:C:1128:LYS:HD3	1:C:1414:GLU:OE1	2.10	0.52
1:C:1440:LYS:HD3	1:C:1453:TYR:OH	2.09	0.52
1:C:238:ILE:HB	1:C:347:TYR:CD1	2.45	0.52
1:C:706:ASN:ND2	1:C:709:GLU:H	2.07	0.52
1:C:91:GLN:CA	1:C:91:GLN:OE1	2.54	0.52
1:C:947:ARG:NH1	1:C:1352:PHE:CE2	2.78	0.52
2:D:1525:LYS:HD2	2:D:1610:TRP:CH2	2.45	0.52
2:D:235:PHE:HE2	2:D:299:PHE:CE2	2.28	0.52
2:D:302:ARG:HG3	2:D:303:PHE:CD1	2.45	0.52
2:D:319:THR:HG23	2:D:330:VAL:HG12	1.92	0.52
2:D:348:THR:O	2:D:348:THR:OG1	2.23	0.52
2:D:829:GLN:HE21	2:D:830:VAL:N	2.08	0.52
2:D:829:GLN:HG3	2:D:1480:LEU:HD13	1.92	0.52
1:A:1020:TYR:CE1	1:A:1295:GLU:HG3	2.45	0.51
1:A:144:ARG:HD2	1:A:146:TYR:HE1	1.74	0.51
2:B:69:PHE:CD2	2:B:87:ILE:HG22	2.45	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:945:ILE:HD12	2:B:945:ILE:N	2.26	0.51
1:C:1096:ASN:O	1:C:1099:SER:HB3	2.09	0.51
1:C:1190:ILE:HG12	1:C:1253:TYR:CE1	2.45	0.51
1:C:1311:MET:HG2	1:C:1313:ILE:HG12	1.91	0.51
1:C:1564:SER:HB2	1:C:1616:GLN:HG3	1.92	0.51
1:C:81:ASN:CG	1:C:82:SER:H	2.13	0.51
2:D:315:TYR:HD1	2:D:315:TYR:C	2.13	0.51
1:A:1227:PHE:CD2	1:A:1273:TRP:NE1	2.78	0.51
1:A:307:VAL:O	1:A:308:LYS:O	2.27	0.51
1:A:702:GLY:HA3	1:A:728:PHE:CD1	2.45	0.51
1:A:752:LEU:HD12	1:A:752:LEU:C	2.29	0.51
1:A:947:ARG:O	1:A:949:ILE:HG12	2.09	0.51
2:B:234:PHE:HD1	2:B:234:PHE:C	2.14	0.51
2:B:640:SER:O	2:B:641:ALA:CB	2.57	0.51
2:B:69:PHE:CE2	2:B:71:THR:HB	2.45	0.51
2:B:849:GLU:OE2	2:B:865:ARG:HD2	2.10	0.51
1:C:1040:ILE:O	1:C:1043:GLN:HB2	2.10	0.51
1:C:1077:TRP:O	1:C:1080:ALA:HB3	2.10	0.51
1:C:138:ASP:OD1	1:C:192:SER:HA	2.10	0.51
1:C:1423:VAL:HG11	1:C:1496:TYR:CE1	2.45	0.51
1:C:178:ASP:OD2	1:C:179:HIS:N	2.43	0.51
1:C:42:GLN:CG	1:C:43:VAL:N	2.71	0.51
1:C:478:VAL:HG21	1:C:532:GLN:OE1	2.10	0.51
1:C:956:ARG:HG2	1:C:1349:SER:HB3	1.92	0.51
2:D:1273:LEU:HD12	2:D:1273:LEU:O	2.09	0.51
2:D:1330:ASN:ND2	2:D:1330:ASN:N	2.59	0.51
2:D:155:SER:O	2:D:156:LYS:HG2	2.10	0.51
2:D:443:ASN:OD1	2:D:469:ASN:HB3	2.10	0.51
2:D:481:TYR:HE2	2:D:493:GLY:HA3	1.74	0.51
2:D:481:TYR:CB	2:D:520:PHE:HE1	2.16	0.51
2:D:843:ASP:HA	2:D:873:LYS:O	2.10	0.51
2:D:918:GLU:OE2	2:D:918:GLU:N	2.43	0.51
1:A:31:PHE:HB2	1:A:119:ILE:HG22	1.92	0.51
1:A:165:ASP:OD2	1:A:165:ASP:O	2.28	0.51
1:A:191:PRO:HD2	1:A:194:PRO:HB3	1.91	0.51
1:A:870:SER:C	1:A:872:VAL:H	2.14	0.51
2:B:1292:ILE:HD11	2:B:1301:ARG:HE	1.76	0.51
2:B:1367:ILE:HD13	2:B:1456:VAL:HG21	1.92	0.51
2:B:952:ASP:O	2:B:1331:ALA:HA	2.10	0.51
1:C:1024:TYR:C	1:C:1024:TYR:CD2	2.83	0.51
1:C:1031:TRP:CZ2	1:C:1042:LYS:HG3	2.45	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:315:LEU:CD1	1:C:318:LEU:HG	2.40	0.51
1:C:491:PRO:CG	1:C:494:ASP:CB	2.88	0.51
1:C:641:ASN:O	1:C:642:ASN:C	2.49	0.51
1:C:694:VAL:O	1:C:697:LYS:HE3	2.10	0.51
2:D:130:ILE:HA	2:D:147:VAL:HG23	1.92	0.51
2:D:1445:HIS:CG	2:D:1446:PHE:N	2.79	0.51
2:D:1624:LEU:O	2:D:1625:CYS:C	2.49	0.51
1:A:369:TYR:HB3	1:A:422:LEU:CD1	2.41	0.51
2:B:1623:LYS:CB	2:B:1623:LYS:NZ	2.74	0.51
2:B:47:GLY:O	2:B:48:ASP:HB2	2.09	0.51
2:B:252:LEU:HD22	2:B:582:LYS:HB3	1.92	0.51
2:B:814:PHE:HZ	2:B:846:VAL:HG21	1.75	0.51
1:C:1110:ASN:N	1:C:1110:ASN:OD1	2.44	0.51
1:C:1618:LEU:HD13	1:C:1618:LEU:O	2.11	0.51
1:C:594:THR:OG1	1:C:782:ARG:HA	2.11	0.51
1:C:633:GLY:O	1:C:634:CYS:HB2	2.11	0.51
1:C:874:ASP:O	1:C:875:HIS:CG	2.63	0.51
1:C:984:VAL:HG13	1:C:984:VAL:O	2.10	0.51
2:D:1301:ARG:HB3	2:D:1301:ARG:NH1	2.25	0.51
2:D:961:THR:HG22	2:D:1327:THR:CB	2.41	0.51
2:D:1480:LEU:HD21	2:D:1483:LYS:NZ	2.25	0.51
2:D:161:VAL:CG2	2:D:180:LEU:HD21	2.36	0.51
2:D:467:LYS:HG2	2:D:468:GLY:N	2.25	0.51
1:A:1279:ARG:NH1	1:A:1280:TYR:CE2	2.79	0.51
1:A:286:ALA:O	1:A:287:MET:C	2.48	0.51
1:A:486:VAL:HG11	1:A:499:TYR:CE1	2.45	0.51
1:A:478:VAL:HG21	1:A:532:GLN:OE1	2.11	0.51
1:A:730:GLU:O	1:A:734:VAL:HG23	2.10	0.51
1:A:594:THR:OG1	1:A:782:ARG:HA	2.10	0.51
1:A:96:GLN:O	1:A:97:ASN:O	2.29	0.51
2:B:27:LEU:HD13	2:B:43:VAL:HG23	1.91	0.51
2:B:242:ASN:OD1	2:B:295:LYS:HD2	2.10	0.51
2:B:415:THR:O	2:B:425:GLN:CD	2.49	0.51
2:B:481:TYR:HE2	2:B:493:GLY:HA3	1.74	0.51
2:B:523:TYR:CB	2:B:533:ALA:HB2	2.41	0.51
2:B:353:TYR:CD2	2:B:614:GLY:O	2.64	0.51
1:C:1007:SER:OG	1:C:1008:ALA:N	2.40	0.51
1:C:1016:VAL:HG11	1:C:1291:ILE:CG1	2.41	0.51
1:C:1045:LEU:O	1:C:1046:LYS:C	2.47	0.51
1:C:1139:GLU:OE2	1:C:1187:THR:OG1	2.26	0.51
1:C:101:TYR:HE1	1:C:116:ARG:NH2	2.08	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1590:ALA:HB1	1:C:1635:TYR:CD1	2.44	0.51
1:C:145:VAL:CB	1:C:183:ILE:HD12	2.33	0.51
2:D:1548:ILE:HD12	2:D:1636:THR:OG1	2.10	0.51
2:D:210:TYR:CG	2:D:211:THR:N	2.79	0.51
2:D:69:PHE:CE2	2:D:71:THR:HB	2.45	0.51
2:D:800:ILE:CG2	2:D:801:CYS:N	2.72	0.51
2:D:218:LYS:CD	2:D:822:TYR:HE2	2.23	0.51
2:D:840:VAL:HG12	2:D:841:ASN:H	1.75	0.51
2:D:881:PRO:O	2:D:882:PHE:CD2	2.64	0.51
1:A:1110:ASN:OD1	1:A:1110:ASN:N	2.43	0.51
1:A:1279:ARG:HH21	1:A:1362:THR:HG21	1.75	0.51
1:A:1533:GLY:O	1:A:1534:GLN:CB	2.54	0.51
2:B:842:GLU:O	2:B:843:ASP:C	2.48	0.51
1:C:706:ASN:HB2	1:C:714:ARG:NH1	2.25	0.51
1:C:961:TYR:O	1:C:961:TYR:CD1	2.64	0.51
1:C:987:ILE:HG22	1:C:1021:VAL:HG23	1.92	0.51
2:D:257:VAL:HG12	2:D:258:GLU:N	2.25	0.51
2:D:390:THR:HG22	2:D:395:THR:N	2.26	0.51
1:A:1377:PHE:CD2	1:A:1495:VAL:HG22	2.45	0.51
1:A:1381:ILE:HD12	1:A:1493:PHE:HD2	1.76	0.51
1:A:138:ASP:OD1	1:A:192:SER:HA	2.10	0.51
1:A:1568:ILE:HG23	1:A:1577:TYR:CE1	2.41	0.51
1:A:171:VAL:HG22	1:A:1057:MET:HE1	1.92	0.51
2:B:1278:THR:HB	2:B:1314:THR:HB	1.92	0.51
2:B:263:VAL:HG22	2:B:318:VAL:HG23	1.92	0.51
2:B:345:ILE:HG13	2:B:428:LYS:CB	2.40	0.51
2:B:518:PHE:CD2	2:B:518:PHE:O	2.63	0.51
2:B:866:TYR:C	2:B:866:TYR:CD2	2.84	0.51
1:C:33:VAL:HG23	1:C:120:THR:O	2.10	0.51
1:C:1563:VAL:HG12	1:C:1581:LEU:HD23	1.91	0.51
1:C:862:VAL:HB	1:C:865:ILE:HG13	1.92	0.51
1:C:947:ARG:O	1:C:949:ILE:N	2.44	0.51
2:D:922:LYS:HE3	2:D:1329:TYR:OH	2.10	0.51
2:D:198:ARG:HB3	2:D:213:TYR:CE1	2.46	0.51
2:D:251:TYR:CD2	2:D:257:VAL:HG22	2.45	0.51
2:D:347:PHE:O	2:D:348:THR:C	2.49	0.51
1:A:115:LYS:HE2	1:A:654:LEU:HD11	1.93	0.51
1:A:1188:LEU:HD23	1:A:1212:LEU:HA	1.93	0.51
1:A:1421:HIS:CE1	1:A:1498:TYR:CD1	2.98	0.51
1:A:1612:VAL:HB	1:A:1615:ARG:HB3	1.93	0.51
1:A:1628:LYS:HB3	1:A:1633:PHE:HD1	1.76	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:351:PRO:HG2	1:A:352:TYR:HD2	1.67	0.51
2:B:283:ILE:N	2:B:283:ILE:HD12	2.25	0.51
2:B:59:HIS:HA	2:B:68:LEU:HD22	1.92	0.51
1:C:1132:THR:HB	1:C:1134:PRO:HD2	1.93	0.51
1:C:1483:PHE:O	1:C:1485:VAL:HG13	2.11	0.51
1:C:1554:LYS:CG	1:C:1555:PRO:HD2	2.41	0.51
1:C:1616:GLN:NE2	1:C:1648:TRP:CZ3	2.79	0.51
1:C:1560:ALA:HB1	1:C:1620:MET:CG	2.40	0.51
1:C:859:MET:HE1	1:C:898:PHE:CB	2.41	0.51
2:D:197:TRP:HB2	2:D:214:PHE:CD1	2.46	0.51
2:D:248:THR:HG22	2:D:289:ASP:OD1	2.10	0.51
1:A:1150:ILE:HG22	1:A:1151:GLY:N	2.25	0.51
1:A:146:TYR:HD1	1:A:182:ILE:HG23	1.73	0.51
1:A:365:PRO:HD2	1:A:464:TYR:CE2	2.45	0.51
1:A:884:VAL:O	1:A:885:ARG:CB	2.49	0.51
2:B:319:THR:HG23	2:B:330:VAL:HG12	1.93	0.51
2:B:523:TYR:CD1	2:B:523:TYR:C	2.83	0.51
2:B:746:ILE:HD13	2:B:746:ILE:N	2.26	0.51
1:C:1188:LEU:HD23	1:C:1212:LEU:HA	1.93	0.51
1:C:240:TYR:HA	1:C:243:PHE:HB2	1.91	0.51
1:C:357:VAL:O	1:C:359:THR:HG22	2.11	0.51
1:C:369:TYR:HB3	1:C:422:LEU:CD1	2.41	0.51
1:C:477:LEU:HD22	1:C:477:LEU:N	2.26	0.51
1:C:618:LYS:N	1:C:619:PRO:CD	2.73	0.51
1:C:825:LEU:HB2	1:C:845:VAL:HG23	1.92	0.51
2:D:464:PHE:O	2:D:503:LEU:HA	2.10	0.51
2:D:629:THR:HA	2:D:635:ASN:OD1	2.10	0.51
2:D:818:LEU:CD2	2:D:820:MET:HE3	2.38	0.51
2:D:945:ILE:N	2:D:945:ILE:HD12	2.26	0.51
1:A:1534:GLN:HA	1:A:1608:ASN:HD22	1.75	0.51
1:A:25:ILE:HD13	1:A:41:ILE:HB	1.91	0.51
1:A:391:ASN:O	1:A:392:ALA:HB2	2.11	0.51
1:A:961:TYR:O	1:A:961:TYR:HD1	1.94	0.51
2:B:1354:LEU:O	2:B:1354:LEU:HD23	2.11	0.51
2:B:142:PRO:HB3	2:B:187:ASN:HD21	1.76	0.51
2:B:1623:LYS:HA	2:B:1623:LYS:HZ3	1.75	0.51
2:B:161:VAL:CG2	2:B:180:LEU:HD21	2.37	0.51
2:B:164:GLU:HB2	2:B:200:VAL:HG23	1.93	0.51
2:B:345:ILE:HD11	2:B:427:THR:C	2.31	0.51
2:B:78:ALA:C	2:B:80:GLY:H	2.14	0.51
1:C:1279:ARG:NH1	1:C:1280:TYR:CD2	2.79	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:820:PHE:CG	1:C:821:LYS:N	2.79	0.51
1:C:970:LYS:C	1:C:971:THR:HG23	2.30	0.51
1:C:976:ILE:HB	1:C:1362:THR:CG2	2.40	0.51
2:D:242:ASN:OD1	2:D:295:LYS:HD2	2.10	0.51
2:D:924:ILE:HG22	2:D:924:ILE:O	2.11	0.51
1:A:1112:GLN:NE2	1:A:1171:ALA:HB2	2.25	0.50
1:A:518:PHE:O	1:A:520:ASP:N	2.39	0.50
1:A:587:THR:HG22	1:A:789:ALA:HB2	1.92	0.50
2:B:1624:LEU:O	2:B:1625:CYS:C	2.49	0.50
1:C:1019:PHE:CD2	1:C:1020:TYR:N	2.78	0.50
1:C:111:PHE:CD2	1:C:112:SER:N	2.76	0.50
1:C:1139:GLU:O	1:C:1140:ASN:C	2.49	0.50
1:C:1279:ARG:HH21	1:C:1362:THR:HG21	1.75	0.50
2:D:130:ILE:HG23	2:D:147:VAL:HG23	1.93	0.50
2:D:961:THR:HG22	2:D:1327:THR:HA	1.93	0.50
2:D:234:PHE:C	2:D:234:PHE:HD1	2.15	0.50
2:D:866:TYR:OH	2:D:1388:THR:HG21	2.10	0.50
2:D:959:ILE:HG22	2:D:959:ILE:O	2.11	0.50
2:D:964:ILE:HG13	2:D:1302:THR:CG2	2.34	0.50
1:A:1007:SER:OG	1:A:1008:ALA:N	2.39	0.50
1:A:1161:LEU:O	1:A:1164:ILE:HG12	2.12	0.50
1:A:1183:GLN:NE2	1:A:1232:LEU:HD22	2.26	0.50
2:B:189:PRO:C	2:B:191:LEU:N	2.65	0.50
2:B:356:PRO:HD2	2:B:444:TYR:CE2	2.46	0.50
2:B:843:ASP:HA	2:B:873:LYS:O	2.11	0.50
1:C:1110:ASN:O	1:C:1111:TYR:CG	2.63	0.50
1:C:1314:ASP:HA	1:C:1325:ASN:HB2	1.93	0.50
1:C:1429:PRO:O	1:C:1432:ILE:HG12	2.11	0.50
1:C:1500:ARG:C	1:C:1502:ASP:H	2.15	0.50
1:C:584:PRO:HD3	1:C:820:PHE:HB2	1.93	0.50
2:D:1482:ASN:H	2:D:1495:GLU:HG2	1.76	0.50
1:A:136:THR:O	1:A:139:GLN:HB2	2.11	0.50
1:A:1559:TYR:HE1	1:A:1587:THR:HA	1.77	0.50
1:A:238:ILE:HB	1:A:347:TYR:CD1	2.46	0.50
1:A:691:LYS:C	1:A:693:SER:H	2.15	0.50
2:B:130:ILE:HG23	2:B:147:VAL:HG23	1.93	0.50
2:B:1380:THR:HG22	2:B:1381:ILE:H	1.76	0.50
2:B:515:ILE:HG21	2:B:599:TRP:CZ2	2.46	0.50
2:B:949:LYS:O	2:B:950:LEU:HG	2.12	0.50
1:C:931:PRO:CB	1:C:1366:HIS:CD2	2.95	0.50
1:C:146:TYR:CE1	1:C:182:ILE:HG23	2.46	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:504:LEU:HD12	1:C:509:ILE:HA	1.92	0.50
1:C:552:ALA:HB3	1:C:658:ASN:HB3	1.93	0.50
1:C:23:TYR:O	1:C:655:THR:HG21	2.09	0.50
1:C:819:VAL:O	1:C:820:PHE:O	2.29	0.50
2:D:965:ILE:HG22	2:D:1323:MET:HB2	1.94	0.50
2:D:1529:LEU:N	2:D:1529:LEU:HD12	2.27	0.50
2:D:228:LEU:CD2	2:D:247:ILE:HG12	2.41	0.50
2:D:952:ASP:O	2:D:1331:ALA:HA	2.11	0.50
1:A:1421:HIS:NE2	1:A:1498:TYR:CD1	2.80	0.50
1:A:222:TYR:HD2	1:A:223:VAL:N	2.06	0.50
1:A:820:PHE:CG	1:A:821:LYS:N	2.79	0.50
1:A:855:PHE:C	1:A:855:PHE:CD1	2.84	0.50
2:B:1346:ASN:O	2:B:1368:CYS:HB2	2.11	0.50
2:B:1429:LYS:O	2:B:1430:VAL:HG23	2.11	0.50
2:B:235:PHE:HB3	2:B:338:ILE:CG2	2.39	0.50
2:B:421:PRO:HD2	2:B:424:ARG:HG3	1.93	0.50
2:B:519:ARG:CZ	2:B:608:GLY:HA3	2.41	0.50
1:C:191:PRO:O	1:C:194:PRO:HD3	2.11	0.50
1:C:308:LYS:CG	1:C:309:GLU:H	2.22	0.50
1:C:488:PRO:O	1:C:489:LYS:O	2.29	0.50
1:C:790:LEU:HB3	1:C:791:PRO:CD	2.42	0.50
1:C:831:TYR:CZ	1:C:1457:ASP:HB3	2.46	0.50
2:D:345:ILE:HG13	2:D:428:LYS:CB	2.41	0.50
2:D:358:MET:CE	2:D:467:LYS:HD2	2.41	0.50
2:D:253:TYR:HE1	2:D:839:TYR:HE2	1.59	0.50
1:A:178:ASP:OD2	1:A:179:HIS:N	2.45	0.50
1:A:531:THR:HG23	1:A:533:ASN:H	1.77	0.50
1:A:633:GLY:O	1:A:634:CYS:HB2	2.12	0.50
1:A:773:TRP:CZ3	1:A:788:PHE:CE1	2.90	0.50
1:A:947:ARG:O	1:A:949:ILE:N	2.45	0.50
1:A:975:ARG:HG3	1:A:1340:VAL:HB	1.94	0.50
2:B:961:THR:HG22	2:B:1327:THR:CB	2.42	0.50
2:B:1602:THR:H	2:B:1605:THR:HB	1.76	0.50
2:B:259:GLY:HA2	2:B:323:GLU:HB3	1.92	0.50
2:B:347:PHE:O	2:B:348:THR:C	2.49	0.50
2:B:27:LEU:O	2:B:628:LEU:HD12	2.11	0.50
1:A:1162:VAL:N	1:C:1102:ASN:HD21	1.97	0.50
1:C:1434:ALA:HA	1:C:1479:ILE:HG22	1.92	0.50
1:C:60:PRO:CD	1:C:61:ASP:N	2.68	0.50
1:C:792:ASP:OD1	1:C:792:ASP:N	2.45	0.50
2:D:103:TYR:N	2:D:103:TYR:CD2	2.77	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:1326:LEU:HD11	2:D:1328:PHE:CE2	2.46	0.50
2:D:356:PRO:HD2	2:D:444:TYR:CE2	2.46	0.50
2:D:421:PRO:HD2	2:D:424:ARG:HG3	1.93	0.50
2:D:512:PRO:O	2:D:515:ILE:HD12	2.11	0.50
1:A:1571:GLU:O	1:A:1574:PHE:CD2	2.64	0.50
1:A:20:GLU:HA	1:A:551:THR:HG22	1.94	0.50
1:A:269:PHE:O	1:A:282:MET:HG2	2.11	0.50
1:A:23:TYR:O	1:A:655:THR:HG21	2.11	0.50
2:B:1482:ASN:HB3	2:B:1493:ALA:CB	2.41	0.50
2:B:481:TYR:CD2	2:B:493:GLY:O	2.64	0.50
2:B:582:LYS:O	2:B:583:ALA:O	2.30	0.50
1:C:1266:TYR:O	1:C:1266:TYR:CD1	2.64	0.50
1:C:1268:ASN:N	1:C:1269:PRO:HD2	2.27	0.50
1:C:573:VAL:CG1	1:C:592:MET:HG2	2.42	0.50
1:C:96:GLN:O	1:C:97:ASN:O	2.30	0.50
2:D:1520:VAL:CG1	2:D:1584:TRP:HD1	2.24	0.50
2:D:345:ILE:HD11	2:D:427:THR:C	2.32	0.50
2:D:523:TYR:CB	2:D:533:ALA:HB2	2.42	0.50
2:D:599:TRP:HA	2:D:599:TRP:CE3	2.45	0.50
2:D:778:PHE:CD2	2:D:778:PHE:N	2.80	0.50
1:A:1279:ARG:NH1	1:A:1280:TYR:CD2	2.80	0.50
1:A:1311:MET:HG2	1:A:1313:ILE:HG12	1.93	0.50
1:A:1378:TYR:O	1:A:1406:ALA:HA	2.12	0.50
1:A:499:TYR:CE2	1:A:517:LYS:HG3	2.47	0.50
1:A:706:ASN:HB2	1:A:714:ARG:HH11	1.77	0.50
2:B:1607:ILE:H	2:B:1607:ILE:CD1	2.05	0.50
2:B:467:LYS:HG2	2:B:468:GLY:N	2.26	0.50
2:B:784:ILE:HD12	2:B:817:ASP:OD1	2.11	0.50
2:B:824:VAL:HG22	2:B:825:VAL:H	1.76	0.50
2:B:947:ALA:HB2	2:B:1309:GLN:HA	1.93	0.50
2:B:954:VAL:CG1	2:B:955:PRO:HD2	2.42	0.50
1:C:1049:LEU:HD11	1:C:1089:VAL:CG1	2.41	0.50
1:C:163:PHE:HE2	1:C:201:ILE:HD13	1.75	0.50
1:C:115:LYS:HE2	1:C:654:LEU:HD11	1.93	0.50
1:C:774:LEU:HG	1:C:788:PHE:CE1	2.46	0.50
1:C:934:VAL:CG1	1:C:935:LYS:N	2.74	0.50
2:D:105:VAL:HG12	2:D:118:VAL:HA	1.93	0.50
2:D:1382:ILE:HB	2:D:1425:ILE:HB	1.94	0.50
2:D:237:ILE:HD11	2:D:309:LEU:HB2	1.92	0.50
2:D:481:TYR:CE1	2:D:506:MET:SD	2.98	0.50
2:D:778:PHE:HD2	2:D:778:PHE:N	2.10	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1023:HIS:CE1	1:A:1302:LEU:HD11	2.47	0.50
1:A:1031:TRP:CH2	1:A:1042:LYS:HG3	2.47	0.50
1:A:987:ILE:CD1	1:A:1294:ILE:HG23	2.42	0.50
1:A:1487:PHE:HD2	1:A:1487:PHE:N	2.05	0.50
1:A:1562:LYS:CD	1:A:1648:TRP:HZ2	2.24	0.50
1:A:477:LEU:N	1:A:477:LEU:HD22	2.27	0.50
2:B:922:LYS:HE3	2:B:1329:TYR:OH	2.11	0.50
2:B:546:GLY:HA3	2:B:570:ASP:OD1	2.10	0.50
1:A:917:TRP:HB3	2:B:558:MET:SD	2.51	0.50
2:B:550:VAL:HG22	2:B:567:LEU:HD21	1.93	0.50
2:B:563:MET:O	2:B:777:SER:HA	2.12	0.50
1:C:115:LYS:HG3	1:C:116:ARG:O	2.12	0.50
1:C:1619:ILE:HG12	1:C:1645:ILE:CD1	2.42	0.50
1:C:237:PHE:HA	1:C:345:ILE:HG23	1.94	0.50
1:C:463:SER:O	1:C:555:VAL:HG21	2.11	0.50
1:C:856:CYS:HB2	2:D:904:LEU:HD21	1.94	0.50
2:D:142:PRO:HB3	2:D:187:ASN:HD21	1.76	0.50
2:D:415:THR:HG23	2:D:426:ALA:O	2.12	0.50
2:D:445:LEU:HD12	2:D:446:HIS:N	2.27	0.50
2:D:469:ASN:C	2:D:469:ASN:ND2	2.65	0.50
2:D:928:VAL:HG23	2:D:1323:MET:HB3	1.93	0.50
2:D:949:LYS:O	2:D:950:LEU:HG	2.11	0.50
1:A:1031:TRP:CZ2	1:A:1042:LYS:HG3	2.46	0.50
1:A:1559:TYR:CE1	1:A:1587:THR:HA	2.47	0.50
1:A:296:ILE:HG23	1:A:297:ALA:N	2.26	0.50
2:B:1284:ARG:NE	2:B:1285:GLU:H	2.09	0.50
2:B:1331:ALA:O	2:B:1332:GLN:CB	2.49	0.50
2:B:142:PRO:HB3	2:B:187:ASN:ND2	2.27	0.50
2:B:1632:SER:O	2:B:1636:THR:HB	2.12	0.50
2:B:870:PHE:HB2	2:B:871:PRO:CD	2.42	0.50
1:C:1019:PHE:CE1	1:C:1088:GLN:HB3	2.47	0.50
1:C:1019:PHE:CZ	1:C:1088:GLN:HB3	2.47	0.50
1:C:1127:ILE:HD13	1:C:1129:LEU:HD21	1.94	0.50
1:C:115:LYS:HB2	1:C:654:LEU:CD1	2.40	0.50
1:C:1227:PHE:CD2	1:C:1273:TRP:CE2	3.00	0.50
1:C:955:ARG:CG	1:C:1350:THR:HG23	2.40	0.50
1:C:1562:LYS:HD3	1:C:1648:TRP:HE1	1.75	0.50
1:C:323:LEU:HD13	1:C:323:LEU:O	2.12	0.50
1:C:936:ARG:HH11	1:C:936:ARG:CG	2.21	0.50
2:D:204:GLU:HG3	2:D:204:GLU:O	2.12	0.50
2:D:586:VAL:HG12	2:D:587:LEU:N	2.26	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:950:LEU:O	2:D:951:ASP:HB2	2.12	0.50
1:A:101:TYR:CE1	1:A:116:ARG:CZ	2.93	0.49
1:A:1271:ILE:HD13	1:A:1300:TYR:CD1	2.47	0.49
1:A:146:TYR:CE1	1:A:182:ILE:HG23	2.46	0.49
1:A:42:GLN:CG	1:A:43:VAL:N	2.75	0.49
1:A:855:PHE:CZ	1:A:886:GLN:HB2	2.47	0.49
2:B:162:ILE:CG2	2:B:202:LYS:HG2	2.42	0.49
2:B:460:LEU:O	2:B:460:LEU:HD23	2.11	0.49
2:B:358:MET:CE	2:B:467:LYS:HD2	2.41	0.49
1:C:1421:HIS:CE1	1:C:1498:TYR:CD1	2.99	0.49
1:C:325:ILE:O	1:C:341:GLU:HB2	2.13	0.49
1:C:824:PHE:O	1:C:845:VAL:HG22	2.12	0.49
1:C:834:VAL:HB	1:C:837:GLU:OE2	2.12	0.49
2:D:1331:ALA:O	2:D:1332:GLN:CB	2.49	0.49
1:A:1024:TYR:CD2	1:A:1024:TYR:C	2.84	0.49
1:A:1007:SER:HA	1:A:1069:TRP:HD1	1.77	0.49
1:A:1279:ARG:HB2	1:A:1284:PHE:HB2	1.94	0.49
1:A:1299:GLU:O	1:A:1303:LEU:HB2	2.12	0.49
1:A:1543:ILE:O	1:A:1547:THR:HG23	2.12	0.49
1:A:1570:VAL:CG2	1:A:1575:VAL:HG22	2.42	0.49
1:A:809:ILE:CG1	1:A:810:CYS:N	2.75	0.49
1:A:854:GLN:O	1:A:854:GLN:OE1	2.30	0.49
2:B:965:ILE:CD1	2:B:1277:ILE:HD13	2.42	0.49
2:B:1508:VAL:HB	2:B:1509:PRO:HD3	1.93	0.49
2:B:184:TRP:HB2	2:B:185:PRO:CD	2.42	0.49
2:B:522:ALA:O	2:B:533:ALA:HB1	2.12	0.49
2:B:519:ARG:NH1	2:B:606:ASP:OD2	2.45	0.49
1:C:1053:MET:HE2	1:C:1089:VAL:CG2	2.41	0.49
1:C:1562:LYS:O	1:C:1563:VAL:CG1	2.60	0.49
1:C:1585:TYR:CE2	1:C:1586:LYS:HB3	2.47	0.49
1:C:231:ILE:HA	1:C:250:ILE:HG22	1.94	0.49
1:C:50:PHE:CD1	1:C:50:PHE:C	2.85	0.49
1:C:54:ILE:O	1:C:68:SER:HA	2.13	0.49
1:C:691:LYS:C	1:C:693:SER:H	2.15	0.49
1:C:805:SER:O	1:C:807:THR:N	2.45	0.49
2:D:1341:ASN:HD22	2:D:1342:LYS:HG2	1.75	0.49
2:D:1482:ASN:HB3	2:D:1493:ALA:HB3	1.94	0.49
2:D:209:ASN:CG	3:D:2001:NAG:C7	2.80	0.49
2:D:447:VAL:HG13	2:D:447:VAL:O	2.12	0.49
2:D:541:LYS:HG3	2:D:543:THR:HG22	1.94	0.49
2:D:546:GLY:HA3	2:D:570:ASP:OD1	2.11	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1102:ASN:HD22	1:C:1162:VAL:HG22	1.75	0.49
1:A:1164:ILE:O	1:A:1165:ASP:C	2.47	0.49
1:A:1213:LYS:CG	1:A:1266:TYR:HE2	2.23	0.49
1:A:1317:TYR:CD2	1:A:1344:ASP:HB3	2.47	0.49
1:A:185:PHE:CD1	1:A:186:PRO:HD2	2.48	0.49
1:A:33:VAL:HA	1:A:87:ILE:HG12	1.95	0.49
1:A:50:PHE:CD1	1:A:50:PHE:C	2.86	0.49
1:A:520:ASP:HB2	2:B:404:LEU:HD13	1.94	0.49
1:A:540:LEU:HD12	1:A:541:LEU:N	2.27	0.49
1:A:639:GLY:H	1:A:645:VAL:CG2	2.25	0.49
1:A:823:VAL:HG23	1:A:846:TYR:O	2.12	0.49
1:A:825:LEU:HB2	1:A:845:VAL:HG23	1.93	0.49
1:A:984:VAL:O	1:A:984:VAL:HG13	2.12	0.49
2:B:1540:TYR:HE1	2:B:1575:LEU:HB2	1.78	0.49
2:B:400:LEU:HB3	2:B:402:ILE:HD11	1.94	0.49
2:B:484:LEU:HD11	2:B:626:LEU:HD11	1.94	0.49
1:C:331:GLU:CG	1:C:333:THR:HG23	2.41	0.49
1:C:361:LEU:H	1:C:361:LEU:HD12	1.77	0.49
1:C:987:ILE:CD1	1:C:1294:ILE:HG23	2.42	0.49
2:D:1327:THR:HG22	2:D:1328:PHE:N	2.27	0.49
2:D:1420:LYS:HB3	2:D:1422:ALA:O	2.12	0.49
2:D:226:VAL:O	2:D:226:VAL:HG12	2.11	0.49
2:D:415:THR:O	2:D:425:GLN:CD	2.51	0.49
2:D:563:MET:CB	2:D:778:PHE:CE2	2.94	0.49
2:D:550:VAL:HG22	2:D:567:LEU:HD21	1.93	0.49
2:D:824:VAL:HG12	2:D:913:LEU:HD21	1.94	0.49
1:A:116:ARG:O	1:A:117:MET:HB3	2.12	0.49
1:A:1268:ASN:HD22	1:A:1268:ASN:H	1.60	0.49
1:A:126:LEU:HD12	1:A:147:SER:HB2	1.93	0.49
2:B:1301:ARG:HB3	2:B:1301:ARG:NH1	2.27	0.49
2:B:1382:ILE:HB	2:B:1425:ILE:HB	1.94	0.49
2:B:1529:LEU:N	2:B:1529:LEU:HD12	2.27	0.49
2:B:435:TYR:CE1	2:B:616:ASN:HA	2.47	0.49
2:B:524:TYR:HE1	2:B:532:VAL:CG1	2.25	0.49
2:B:586:VAL:HG12	2:B:587:LEU:N	2.27	0.49
2:B:825:VAL:HG22	2:B:916:VAL:HG13	1.93	0.49
1:C:1648:TRP:NE1	1:C:1664:LEU:HD22	2.28	0.49
1:C:1549:LYS:HZ2	1:C:1667:PHE:HB3	1.76	0.49
1:C:391:ASN:O	1:C:392:ALA:HB2	2.12	0.49
1:C:820:PHE:O	1:C:821:LYS:CG	2.60	0.49
1:C:834:VAL:HA	1:C:930:VAL:O	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:864:GLY:HA3	1:C:907:LEU:HD23	1.94	0.49
1:C:59:TYR:CZ	1:C:99:VAL:HG21	2.44	0.49
2:D:1278:THR:HB	2:D:1314:THR:HB	1.94	0.49
2:D:1523:VAL:HG22	2:D:1584:TRP:CB	2.28	0.49
2:D:162:ILE:CG2	2:D:202:LYS:HG2	2.43	0.49
2:D:350:THR:O	2:D:350:THR:HG23	2.11	0.49
2:D:518:PHE:O	2:D:518:PHE:HD2	1.96	0.49
2:D:755:TRP:O	2:D:756:LEU:HB3	2.12	0.49
1:A:100:SER:HB2	1:A:101:TYR:HD2	1.78	0.49
1:A:1104:LEU:O	1:A:1108:VAL:HG12	2.11	0.49
1:A:1128:LYS:O	1:A:1128:LYS:HG3	2.11	0.49
1:A:1487:PHE:O	1:A:1488:LEU:C	2.50	0.49
1:A:475:ALA:HB1	1:A:477:LEU:CD2	2.42	0.49
2:B:930:LEU:HB2	2:B:1321:ALA:HB3	1.93	0.49
2:B:1330:ASN:H	2:B:1330:ASN:HD22	1.60	0.49
2:B:1412:GLU:HB2	2:B:1419:GLN:CG	2.42	0.49
2:B:482:LEU:CD1	2:B:482:LEU:N	2.76	0.49
1:C:100:SER:CB	1:C:101:TYR:HD2	2.25	0.49
1:C:1549:LYS:NZ	1:C:1667:PHE:CB	2.70	0.49
1:C:1559:TYR:CE1	1:C:1587:THR:HA	2.46	0.49
1:C:792:ASP:O	1:C:793:SER:CB	2.60	0.49
2:D:1278:THR:O	2:D:1313:VAL:HA	2.12	0.49
2:D:1345:LEU:HG	2:D:1345:LEU:O	2.13	0.49
2:D:1512:ILE:O	2:D:1516:CYS:HB2	2.12	0.49
2:D:224:PHE:CZ	2:D:329:VAL:HG13	2.47	0.49
2:D:820:MET:HE1	2:D:832:ILE:HD13	1.94	0.49
2:D:825:VAL:HG22	2:D:916:VAL:HG13	1.95	0.49
1:A:1185:THR:OG1	1:A:1231:ASN:HB3	2.12	0.49
1:A:1560:ALA:HB1	1:A:1620:MET:CG	2.42	0.49
1:A:240:TYR:HA	1:A:243:PHE:HB2	1.93	0.49
2:B:778:PHE:CD2	2:B:778:PHE:N	2.81	0.49
1:C:1068:VAL:HG21	1:C:1124:TYR:HD1	1.72	0.49
1:C:1265:ASN:C	1:C:1267:VAL:H	2.16	0.49
1:C:1004:PRO:HG3	1:C:1461:ILE:HD13	1.95	0.49
1:C:1543:ILE:O	1:C:1547:THR:HG23	2.13	0.49
1:C:21:GLN:HE22	1:C:46:TYR:HD2	1.61	0.49
1:C:357:VAL:HG12	1:C:358:ALA:N	2.27	0.49
1:C:431:LEU:O	1:C:431:LEU:HD13	2.11	0.49
1:C:531:THR:HG23	1:C:533:ASN:H	1.78	0.49
1:C:598:SER:O	1:C:599:TRP:HD1	1.95	0.49
1:C:617:LYS:C	1:C:619:PRO:HD2	2.33	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:702:GLY:CA	1:C:728:PHE:CD1	2.95	0.49
2:D:1429:LYS:O	2:D:1430:VAL:HG23	2.13	0.49
2:D:145:TYR:C	2:D:145:TYR:CD1	2.86	0.49
2:D:1507:ASP:OD1	2:D:1509:PRO:HD2	2.12	0.49
1:A:1016:VAL:HG11	1:A:1291:ILE:CG1	2.43	0.49
1:A:1023:HIS:O	1:A:1027:THR:HB	2.12	0.49
1:A:1584:ILE:CG2	1:A:1585:TYR:H	2.04	0.49
1:A:681:LYS:HB2	1:A:738:LEU:HD11	1.95	0.49
1:A:827:MET:HB3	1:A:829:ILE:CD1	2.42	0.49
1:A:946:PRO:HB3	1:A:1352:PHE:O	2.12	0.49
2:B:961:THR:HG22	2:B:1327:THR:HA	1.95	0.49
2:B:40:GLN:O	2:B:489:ILE:HD12	2.12	0.49
2:B:581:ASP:O	2:B:582:LYS:C	2.51	0.49
2:B:61:PHE:CG	2:B:62:PRO:HA	2.47	0.49
2:B:806:TYR:CE1	2:B:807:GLU:O	2.66	0.49
1:C:1252:ALA:O	1:C:1253:TYR:C	2.50	0.49
2:D:1392:PRO:HB2	2:D:1397:LEU:HD22	1.95	0.49
2:D:199:ILE:O	2:D:199:ILE:HG22	2.12	0.49
2:D:353:TYR:CD2	2:D:614:GLY:O	2.66	0.49
2:D:84:THR:N	2:D:85:PRO:HD3	2.27	0.49
2:D:954:VAL:HB	2:D:957:THR:CG2	2.31	0.49
1:A:166:PRO:HB3	1:A:198:MET:H	1.77	0.49
1:A:238:ILE:HD12	1:A:347:TYR:CE1	2.48	0.49
1:A:367:ILE:CD1	1:A:466:TYR:HB3	2.43	0.49
1:A:834:VAL:HB	1:A:837:GLU:OE2	2.13	0.49
1:A:874:ASP:O	1:A:875:HIS:CG	2.66	0.49
2:B:1349:VAL:HA	2:B:1364:MET:O	2.10	0.49
2:B:482:LEU:H	2:B:482:LEU:CD1	2.21	0.49
2:B:795:THR:HG22	2:B:796:PRO:HD2	1.95	0.49
2:B:829:GLN:HG3	2:B:1480:LEU:HD13	1.95	0.49
1:C:128:ILE:HD11	1:C:214:THR:CA	2.43	0.49
1:C:946:PRO:HB3	1:C:1352:PHE:O	2.12	0.49
1:C:1658:GLN:NE2	1:C:1661:LEU:HD12	2.28	0.49
1:C:207:GLU:O	1:C:209:PHE:N	2.45	0.49
1:C:773:TRP:HZ3	1:C:788:PHE:HE1	1.56	0.49
1:C:989:SER:O	1:C:993:SER:CB	2.60	0.49
2:D:137:TYR:CE1	2:D:143:VAL:HG22	2.47	0.49
2:D:597:LYS:NZ	2:D:597:LYS:HB3	2.27	0.49
2:D:61:PHE:CG	2:D:62:PRO:HA	2.47	0.49
2:D:69:PHE:CD2	2:D:69:PHE:C	2.86	0.49
2:D:784:ILE:HD12	2:D:817:ASP:OD1	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:814:PHE:CZ	2:D:846:VAL:HG21	2.48	0.49
2:D:735:ASN:CB	2:D:869:GLN:HE22	2.25	0.49
2:D:965:ILE:CD1	2:D:1277:ILE:HD13	2.42	0.49
1:A:1109:GLU:HB3	1:A:1110:ASN:OD1	2.11	0.49
1:A:1564:SER:O	1:A:1579:ALA:HB1	2.13	0.49
1:A:1648:TRP:NE1	1:A:1664:LEU:HD22	2.28	0.49
1:A:27:ALA:HB1	1:A:28:PRO:CD	2.43	0.49
2:B:155:SER:O	2:B:156:LYS:HG2	2.13	0.49
2:B:204:GLU:O	2:B:204:GLU:HG3	2.13	0.49
2:B:417:HIS:N	2:B:425:GLN:OE1	2.45	0.49
2:B:437:THR:HG21	2:B:443:ASN:N	2.27	0.49
2:B:481:TYR:C	2:B:481:TYR:CD2	2.85	0.49
2:B:924:ILE:O	2:B:924:ILE:HG22	2.12	0.49
1:C:1008:ALA:O	1:C:1010:ALA:N	2.45	0.49
1:C:111:PHE:CG	1:C:112:SER:N	2.81	0.49
1:C:20:GLU:HA	1:C:551:THR:HG22	1.93	0.49
1:C:222:TYR:HE1	1:C:768:TYR:CB	2.10	0.49
1:C:639:GLY:H	1:C:645:VAL:HG22	1.78	0.49
2:D:109:THR:HG22	2:D:114:ARG:HB3	1.94	0.49
1:A:1088:GLN:O	1:A:1090:ASN:N	2.46	0.49
1:A:1101:CYS:O	1:A:1105:LEU:HD12	2.13	0.49
1:A:1132:THR:HB	1:A:1134:PRO:HD2	1.94	0.49
1:A:1140:ASN:O	1:A:1143:TYR:HB3	2.12	0.49
1:A:1152:ILE:CG2	1:A:1168:LEU:HD21	2.40	0.49
1:A:120:THR:CG2	1:A:122:ASP:H	2.24	0.49
1:A:1268:ASN:HB2	1:A:1269:PRO:HD3	1.95	0.49
1:A:331:GLU:CG	1:A:333:THR:HG23	2.42	0.49
1:A:618:LYS:O	1:A:619:PRO:O	2.31	0.49
1:A:773:TRP:HZ3	1:A:788:PHE:HE1	1.55	0.49
2:B:103:TYR:CD2	2:B:103:TYR:N	2.79	0.49
1:C:1003:LEU:HA	1:C:1004:PRO:HD2	1.64	0.49
1:C:1024:TYR:O	1:C:1025:LEU:C	2.51	0.49
1:C:1271:ILE:HD13	1:C:1300:TYR:CD1	2.47	0.49
1:C:1324:HIS:CD2	1:C:1336:ARG:NH2	2.81	0.49
1:C:1279:ARG:NH2	1:C:1362:THR:HG21	2.28	0.49
1:C:1365:VAL:CG2	1:C:1366:HIS:H	2.23	0.49
1:C:1455:ILE:HD12	1:C:1455:ILE:N	2.27	0.49
2:D:422:ARG:HD3	2:D:422:ARG:N	2.22	0.49
1:A:961:TYR:HB2	1:A:1345:ASP:OD2	2.13	0.48
1:A:1563:VAL:HG12	1:A:1581:LEU:HD23	1.94	0.48
1:A:471:ASP:O	1:A:472:ASN:HB3	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:618:LYS:N	1:A:619:PRO:CD	2.72	0.48
1:A:672:ILE:C	1:A:673:LEU:HG	2.33	0.48
2:B:1301:ARG:HB3	2:B:1301:ARG:HH11	1.78	0.48
2:B:1600:ILE:O	2:B:1602:THR:HG23	2.12	0.48
2:B:421:PRO:O	2:B:424:ARG:HB2	2.13	0.48
2:B:481:TYR:CE2	2:B:493:GLY:C	2.86	0.48
1:C:126:LEU:HD12	1:C:147:SER:HB2	1.94	0.48
1:C:1226:ARG:O	1:C:1270:VAL:HG22	2.13	0.48
1:C:1454:GLN:C	1:C:1455:ILE:HD12	2.33	0.48
1:C:1480:PHE:CD1	1:C:1480:PHE:N	2.81	0.48
1:C:161:LEU:HD11	1:C:185:PHE:CE1	2.47	0.48
2:D:44:GLU:OE2	2:D:523:TYR:OH	2.28	0.48
2:D:58:VAL:HG12	2:D:104:VAL:HG22	1.94	0.48
1:A:1024:TYR:O	1:A:1025:LEU:C	2.51	0.48
1:A:142:LYS:HA	1:A:187:ASP:OD1	2.12	0.48
1:A:1493:PHE:CD1	1:A:1494:THR:N	2.79	0.48
1:A:1563:VAL:HG22	1:A:1617:TYR:O	2.14	0.48
1:A:599:TRP:HE1	1:A:779:LEU:CD1	2.26	0.48
1:A:819:VAL:O	1:A:820:PHE:O	2.30	0.48
2:B:1345:LEU:HG	2:B:1345:LEU:O	2.13	0.48
2:B:378:PRO:HA	2:B:389:THR:HA	1.94	0.48
2:B:438:GLN:CD	2:B:530:GLU:HG3	2.34	0.48
2:B:742:ASP:C	2:B:742:ASP:OD1	2.52	0.48
2:B:818:LEU:CD2	2:B:820:MET:HE3	2.40	0.48
1:C:706:ASN:HB2	1:C:714:ARG:HH11	1.77	0.48
2:D:1528:LEU:HD13	2:D:1542:MET:CE	2.43	0.48
2:D:795:THR:HG22	2:D:796:PRO:HD2	1.95	0.48
2:D:850:LEU:HG	2:D:851:LEU:O	2.13	0.48
1:C:875:HIS:CB	2:D:901:GLN:HE22	2.25	0.48
2:D:913:LEU:HD23	2:D:914:LYS:N	2.28	0.48
1:A:1077:TRP:O	1:A:1080:ALA:HB3	2.13	0.48
1:A:1229:LYS:HZ1	1:A:1240:PRO:HD2	1.78	0.48
1:A:135:TYR:OH	1:A:141:VAL:HG13	2.13	0.48
1:A:1500:ARG:C	1:A:1502:ASP:H	2.17	0.48
1:A:21:GLN:HE22	1:A:46:TYR:HD2	1.61	0.48
1:A:790:LEU:HB3	1:A:791:PRO:CD	2.44	0.48
2:B:44:GLU:OE2	2:B:523:TYR:OH	2.30	0.48
2:B:964:ILE:HG13	2:B:1302:THR:CG2	2.38	0.48
1:C:113:LYS:CG	1:C:114:SER:N	2.74	0.48
1:C:1381:ILE:O	1:C:1382:ASP:CB	2.59	0.48
1:C:1535:MET:HG2	1:C:1608:ASN:O	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:24:VAL:HG12	1:C:24:VAL:O	2.13	0.48
1:C:309:GLU:N	1:C:309:GLU:OE1	2.46	0.48
1:C:367:ILE:CD1	1:C:466:TYR:HB3	2.43	0.48
1:C:956:ARG:HA	1:C:1348:VAL:O	2.12	0.48
1:C:968:VAL:CG2	1:C:971:THR:HG21	2.43	0.48
2:D:1446:PHE:CD2	2:D:1448:VAL:HG22	2.45	0.48
2:D:223:SER:O	2:D:252:LEU:HG	2.13	0.48
2:D:283:ILE:HD12	2:D:283:ILE:N	2.29	0.48
2:D:401:ASN:C	2:D:402:ILE:HD13	2.33	0.48
1:A:1008:ALA:O	1:A:1010:ALA:N	2.46	0.48
1:A:1069:TRP:CZ3	1:A:1451:THR:HG21	2.48	0.48
1:A:1132:THR:HG22	1:A:1133:LEU:N	2.27	0.48
1:A:1450:PHE:HA	1:A:1464:LEU:HB3	1.96	0.48
1:A:968:VAL:CG2	1:A:971:THR:HG21	2.44	0.48
2:B:58:VAL:HG12	2:B:104:VAL:HG22	1.94	0.48
2:B:1424:ILE:CD1	2:B:1424:ILE:N	2.74	0.48
2:B:226:VAL:HG12	2:B:226:VAL:O	2.12	0.48
2:B:350:THR:HG23	2:B:350:THR:O	2.12	0.48
2:B:512:PRO:O	2:B:515:ILE:HD12	2.13	0.48
2:B:842:GLU:O	2:B:844:ILE:HG23	2.14	0.48
1:C:1022:PHE:O	1:C:1024:TYR:N	2.47	0.48
1:C:1127:ILE:HG12	1:C:1143:TYR:CE2	2.48	0.48
1:C:146:TYR:HD1	1:C:182:ILE:HG23	1.75	0.48
1:C:1560:ALA:O	1:C:1561:TYR:HB3	2.13	0.48
1:C:494:ASP:O	1:C:494:ASP:CG	2.52	0.48
1:C:540:LEU:HD12	1:C:541:LEU:N	2.28	0.48
1:C:944:LEU:HD23	1:C:944:LEU:N	2.28	0.48
2:D:1619:GLU:HA	2:D:1622:GLN:NE2	2.27	0.48
2:D:69:PHE:CD2	2:D:87:ILE:HG22	2.49	0.48
2:D:825:VAL:N	2:D:828:GLU:OE1	2.39	0.48
1:A:1279:ARG:NH2	1:A:1362:THR:HG21	2.28	0.48
1:A:1562:LYS:O	1:A:1563:VAL:CG1	2.62	0.48
1:A:1585:TYR:CE2	1:A:1586:LYS:HB3	2.48	0.48
1:A:961:TYR:CD1	1:A:961:TYR:O	2.66	0.48
2:B:1562:GLN:CB	2:B:1598:SER:HB3	2.43	0.48
2:B:235:PHE:CE2	2:B:299:PHE:HE2	2.31	0.48
2:B:816:ILE:CD1	2:B:896:ILE:HG22	2.44	0.48
2:B:830:VAL:CG2	2:B:831:GLU:N	2.72	0.48
1:C:1033:ILE:HG22	1:C:1034:PHE:HD1	1.77	0.48
1:C:1061:ASN:HB3	1:C:1062:ALA:H	1.54	0.48
1:C:1109:GLU:HB3	1:C:1110:ASN:OD1	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1224:ILE:HG22	1:C:1225:TYR:HD2	1.78	0.48
1:C:1227:PHE:CD2	1:C:1273:TRP:NE1	2.80	0.48
1:C:185:PHE:CD1	1:C:186:PRO:HD2	2.48	0.48
1:C:227:PHE:HB2	1:C:338:GLU:HG3	1.94	0.48
1:C:623:VAL:CG1	1:C:624:PHE:N	2.61	0.48
1:C:979:VAL:HG21	1:C:1326:TYR:CZ	2.43	0.48
2:D:543:THR:OG1	2:D:544:CYS:N	2.43	0.48
2:D:91:ALA:HA	2:D:94:VAL:HG23	1.96	0.48
1:A:1314:ASP:HA	1:A:1325:ASN:HB2	1.95	0.48
1:A:308:LYS:HB3	1:A:309:GLU:OE1	2.13	0.48
1:A:463:SER:O	1:A:555:VAL:HG21	2.14	0.48
2:B:129:PHE:HE2	2:B:598:ILE:HG23	1.75	0.48
2:B:422:ARG:HD3	2:B:422:ARG:N	2.23	0.48
2:B:541:LYS:HG3	2:B:543:THR:HG22	1.95	0.48
2:B:69:PHE:C	2:B:69:PHE:CD2	2.87	0.48
2:B:83:VAL:HB	2:B:85:PRO:HD3	1.95	0.48
1:C:544:TYR:HE2	1:C:546:VAL:CG2	2.26	0.48
1:C:125:PHE:CE1	1:C:627:LEU:HD21	2.47	0.48
1:C:950:TYR:HD1	1:C:1268:ASN:OD1	1.95	0.48
2:D:511:THR:H	2:D:514:LEU:CD1	2.26	0.48
2:D:742:ASP:OD1	2:D:742:ASP:C	2.52	0.48
2:D:746:ILE:HD13	2:D:746:ILE:H	1.77	0.48
2:D:947:ALA:HB2	2:D:1309:GLN:HA	1.95	0.48
1:A:1323:LEU:CD1	1:A:1324:HIS:H	2.26	0.48
1:A:251:LYS:HG2	1:A:296:ILE:CD1	2.43	0.48
1:A:794:LEU:N	1:A:794:LEU:HD12	2.28	0.48
1:A:831:TYR:CZ	1:A:1457:ASP:HB3	2.48	0.48
2:B:162:ILE:HG21	2:B:202:LYS:HG2	1.94	0.48
2:B:778:PHE:N	2:B:778:PHE:HD2	2.11	0.48
1:C:1185:THR:OG1	1:C:1231:ASN:HB3	2.13	0.48
1:C:1612:VAL:HB	1:C:1615:ARG:HB3	1.96	0.48
1:C:1675:GLY:O	1:C:1676:CYS:OXT	2.32	0.48
1:C:809:ILE:CG1	1:C:810:CYS:N	2.76	0.48
1:C:855:PHE:CZ	1:C:886:GLN:HB2	2.48	0.48
2:D:640:SER:O	2:D:641:ALA:CB	2.61	0.48
2:D:71:THR:HG23	2:D:72:ARG:N	2.29	0.48
2:D:916:VAL:CG2	2:D:917:PRO:HD2	2.43	0.48
1:A:1143:TYR:O	1:A:1144:LEU:C	2.52	0.48
1:A:115:LYS:HG3	1:A:116:ARG:O	2.14	0.48
1:A:120:THR:HG22	1:A:121:TYR:N	2.29	0.48
1:A:1565:ILE:O	1:A:1566:THR:HG22	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:534:MET:HB3	1:A:538:SER:OG	2.14	0.48
1:A:641:ASN:O	1:A:642:ASN:C	2.50	0.48
2:B:1300:ALA:O	2:B:1301:ARG:HD2	2.13	0.48
2:B:299:PHE:CE1	2:B:303:PHE:HD2	2.24	0.48
2:B:356:PRO:HD2	2:B:444:TYR:CZ	2.48	0.48
2:B:477:LYS:HD3	2:B:477:LYS:N	2.29	0.48
2:B:84:THR:N	2:B:85:PRO:HD3	2.28	0.48
2:B:860:SER:OG	2:B:866:TYR:N	2.46	0.48
1:C:1020:TYR:CE1	1:C:1295:GLU:HG3	2.48	0.48
1:C:1140:ASN:O	1:C:1143:TYR:HB3	2.14	0.48
1:C:1013:MET:HE2	1:C:1287:THR:HB	1.96	0.48
1:C:1313:ILE:HA	1:C:1313:ILE:HD13	1.68	0.48
1:C:135:TYR:OH	1:C:141:VAL:HG13	2.14	0.48
1:C:1563:VAL:HG12	1:C:1581:LEU:CD2	2.44	0.48
1:C:618:LYS:O	1:C:619:PRO:O	2.32	0.48
2:D:189:PRO:C	2:D:191:LEU:N	2.67	0.48
2:D:214:PHE:CD1	2:D:214:PHE:C	2.86	0.48
2:D:378:PRO:HA	2:D:389:THR:HA	1.95	0.48
1:A:1483:PHE:O	1:A:1485:VAL:HG13	2.14	0.48
1:A:325:ILE:O	1:A:341:GLU:HB2	2.14	0.48
1:A:583:SER:O	1:A:586:GLN:HB3	2.14	0.48
1:A:700:TYR:OH	1:A:757:LEU:HD22	2.14	0.48
2:B:276:ILE:O	2:B:277:PRO:C	2.52	0.48
2:B:365:TYR:HA	2:B:394:GLY:O	2.14	0.48
2:B:455:LYS:O	2:B:458:ASP:HB2	2.14	0.48
2:B:850:LEU:HG	2:B:851:LEU:O	2.14	0.48
2:B:916:VAL:HG22	2:B:917:PRO:O	2.14	0.48
2:B:91:ALA:HA	2:B:94:VAL:HG23	1.96	0.48
2:B:966:GLN:HG3	2:B:966:GLN:O	2.14	0.48
1:C:132:LYS:HZ1	1:C:139:GLN:HE22	1.56	0.48
1:C:166:PRO:HB3	1:C:198:MET:H	1.78	0.48
1:C:25:ILE:N	1:C:655:THR:CG2	2.73	0.48
1:C:700:TYR:OH	1:C:757:LEU:HD22	2.13	0.48
1:C:935:LYS:HD3	1:C:1373:GLU:OE2	2.14	0.48
2:D:421:PRO:O	2:D:424:ARG:HB2	2.14	0.48
1:A:1268:ASN:N	1:A:1269:PRO:HD2	2.29	0.48
1:A:1381:ILE:O	1:A:1382:ASP:CB	2.62	0.48
1:A:1554:LYS:CG	1:A:1555:PRO:HD2	2.43	0.48
1:A:1567:SER:HB3	1:A:1578:LYS:HB2	1.96	0.48
1:A:248:ILE:HD13	1:A:325:ILE:CD1	2.44	0.48
1:A:354:LEU:HD23	1:A:450:GLU:HG3	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:792:ASP:OD1	1:A:792:ASP:N	2.47	0.48
2:B:928:VAL:HG23	2:B:1323:MET:HB3	1.96	0.48
1:C:1076:THR:HG22	1:C:1144:LEU:HD11	1.95	0.48
1:C:1474:CYS:HB3	1:C:1476:ARG:NH1	2.29	0.48
1:C:1567:SER:HB3	1:C:1578:LYS:HB2	1.96	0.48
2:D:1632:SER:O	2:D:1636:THR:HB	2.13	0.48
2:D:236:TYR:C	2:D:238:ASP:N	2.67	0.48
2:D:353:TYR:CD2	2:D:614:GLY:C	2.87	0.48
2:D:438:GLN:CD	2:D:530:GLU:HG3	2.35	0.48
2:D:482:LEU:CD1	2:D:482:LEU:N	2.75	0.48
2:D:746:ILE:HD13	2:D:746:ILE:N	2.29	0.48
1:A:1075:SER:HB2	1:A:1120:GLU:OE1	2.14	0.47
1:A:1143:TYR:O	1:A:1146:ALA:N	2.47	0.47
1:A:1128:LYS:HD3	1:A:1414:GLU:OE1	2.14	0.47
1:A:1532:CYS:SG	1:A:1533:GLY:N	2.87	0.47
1:A:1559:TYR:OH	1:A:1591:VAL:HA	2.14	0.47
1:A:494:ASP:O	1:A:494:ASP:CG	2.52	0.47
1:A:811:VAL:O	1:A:811:VAL:CG1	2.62	0.47
1:A:837:GLU:C	1:A:901:LEU:HD12	2.34	0.47
1:A:934:VAL:O	1:A:935:LYS:HG3	2.13	0.47
2:B:145:TYR:CD1	2:B:145:TYR:C	2.88	0.47
2:B:198:ARG:HB3	2:B:213:TYR:CE1	2.49	0.47
2:B:251:TYR:CD2	2:B:257:VAL:HG22	2.49	0.47
2:B:415:THR:HG23	2:B:426:ALA:O	2.13	0.47
2:B:345:ILE:HG13	2:B:428:LYS:HB2	1.94	0.47
2:B:555:LEU:HG	2:B:555:LEU:H	1.49	0.47
2:B:795:THR:CG2	2:B:796:PRO:HD2	2.45	0.47
1:C:100:SER:HB2	1:C:101:TYR:HD2	1.78	0.47
1:C:1143:TYR:O	1:C:1146:ALA:N	2.47	0.47
1:C:346:LYS:HE3	1:C:348:VAL:HG22	1.96	0.47
1:C:471:ASP:O	1:C:472:ASN:HB3	2.14	0.47
1:C:854:GLN:O	1:C:854:GLN:OE1	2.32	0.47
1:C:963:ILE:HG23	1:C:967:LEU:HD23	1.95	0.47
2:D:1517:GLU:OE2	2:D:1518:THR:HG22	2.13	0.47
2:D:795:THR:CG2	2:D:796:PRO:HD2	2.44	0.47
1:A:100:SER:CB	1:A:101:TYR:HD2	2.27	0.47
1:A:163:PHE:HE1	1:A:188:PHE:CB	2.26	0.47
1:A:270:GLY:HA3	1:A:282:MET:CG	2.43	0.47
1:A:968:VAL:HG23	1:A:971:THR:CG2	2.44	0.47
2:B:1278:THR:O	2:B:1313:VAL:HA	2.13	0.47
2:B:1420:LYS:HB3	2:B:1422:ALA:O	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:443:ASN:OD1	2:B:469:ASN:HB3	2.14	0.47
2:B:449:ILE:HG23	2:B:449:ILE:O	2.14	0.47
2:B:844:ILE:CD1	2:B:872:ILE:HD11	2.44	0.47
1:C:1041:GLU:O	1:C:1045:LEU:HG	2.14	0.47
1:C:1299:GLU:O	1:C:1303:LEU:HB2	2.13	0.47
1:C:1561:TYR:CE1	1:C:1581:LEU:HD11	2.49	0.47
1:C:289:ASN:OD1	1:C:289:ASN:N	2.46	0.47
1:C:330:ILE:HG22	1:C:337:SER:CB	2.31	0.47
1:C:351:PRO:HG2	1:C:352:TYR:HD2	1.71	0.47
1:C:475:ALA:HB1	1:C:477:LEU:CD2	2.44	0.47
2:D:1382:ILE:HG12	2:D:1427:LEU:HD11	1.95	0.47
2:D:235:PHE:CE2	2:D:299:PHE:HE2	2.32	0.47
2:D:259:GLY:HA2	2:D:323:GLU:HB3	1.94	0.47
2:D:449:ILE:HG23	2:D:449:ILE:O	2.14	0.47
2:D:628:LEU:HB3	2:D:636:THR:HG23	1.96	0.47
2:D:842:GLU:O	2:D:843:ASP:C	2.53	0.47
1:A:1246:ARG:O	1:A:1250:THR:HG23	2.15	0.47
1:A:1271:ILE:CD1	1:A:1300:TYR:CZ	2.97	0.47
1:A:1561:TYR:CE1	1:A:1581:LEU:HD11	2.50	0.47
1:A:600:VAL:CG2	1:A:780:VAL:HG21	2.45	0.47
2:B:1476:LYS:HB3	2:B:1476:LYS:HE3	1.60	0.47
1:C:990:ALA:HB1	1:C:1000:LEU:CD1	2.44	0.47
1:C:1307:LEU:H	1:C:1307:LEU:HD22	1.79	0.47
1:C:1344:ASP:OD1	1:C:1345:ASP:N	2.47	0.47
1:C:333:THR:OG1	1:C:334:GLY:N	2.48	0.47
1:C:560:TRP:CZ3	1:C:562:ASN:HB2	2.49	0.47
1:C:774:LEU:HD12	1:C:799:ILE:HD11	1.97	0.47
2:D:126:SER:OG	2:D:127:PHE:N	2.47	0.47
2:D:1289:ARG:C	2:D:1290:TYR:HD1	2.18	0.47
2:D:139:PRO:HG2	2:D:218:LYS:HE2	1.96	0.47
2:D:1384:ILE:HB	2:D:1423:VAL:HG12	1.96	0.47
2:D:1484:ILE:HG22	2:D:1485:CYS:N	2.29	0.47
2:D:1613:GLU:O	2:D:1616:CYS:CB	2.61	0.47
2:D:1628:PHE:O	2:D:1629:ALA:C	2.52	0.47
2:D:217:ARG:HG2	2:D:218:LYS:N	2.29	0.47
2:D:437:THR:HG21	2:D:443:ASN:N	2.30	0.47
2:D:501:GLN:CG	2:D:504:VAL:HG23	2.43	0.47
2:D:581:ASP:O	2:D:582:LYS:C	2.50	0.47
2:D:953:ARG:HG2	2:D:954:VAL:N	2.29	0.47
1:A:1022:PHE:O	1:A:1023:HIS:C	2.51	0.47
1:A:1139:GLU:OE2	1:A:1187:THR:OG1	2.24	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:237:PHE:HA	1:A:345:ILE:HG23	1.97	0.47
1:A:308:LYS:CG	1:A:309:GLU:H	2.25	0.47
1:A:820:PHE:CE2	1:A:821:LYS:O	2.67	0.47
1:A:864:GLY:HA3	1:A:907:LEU:HD22	1.96	0.47
1:A:859:MET:HE1	1:A:898:PHE:CB	2.44	0.47
2:B:1427:LEU:HD23	2:B:1430:VAL:HG23	1.96	0.47
2:B:26:THR:OG1	2:B:44:GLU:HB2	2.15	0.47
2:B:953:ARG:HG2	2:B:954:VAL:N	2.29	0.47
1:C:1104:LEU:O	1:C:1108:VAL:HG12	2.13	0.47
1:C:975:ARG:HH22	1:C:1346:LEU:HD22	1.79	0.47
1:C:1487:PHE:O	1:C:1488:LEU:C	2.53	0.47
1:C:520:ASP:OD1	1:C:520:ASP:N	2.47	0.47
1:C:705:VAL:HA	1:C:739:ARG:HH12	1.77	0.47
2:D:224:PHE:CE2	2:D:329:VAL:HG13	2.49	0.47
2:D:40:GLN:O	2:D:489:ILE:HD12	2.14	0.47
2:D:481:TYR:CD2	2:D:493:GLY:O	2.67	0.47
2:D:581:ASP:OD2	2:D:785:THR:HG21	2.12	0.47
2:D:940:THR:HG22	2:D:942:LEU:HD22	1.96	0.47
1:A:1016:VAL:HG11	1:A:1291:ILE:CD1	2.45	0.47
1:A:1488:LEU:HD12	1:A:1488:LEU:C	2.35	0.47
1:A:23:TYR:CD1	1:A:23:TYR:C	2.88	0.47
1:A:908:HIS:O	1:A:909:ASN:CB	2.61	0.47
2:B:1517:GLU:OE2	2:B:1518:THR:HG22	2.14	0.47
2:B:192:VAL:CG2	2:B:193:SER:H	2.17	0.47
2:B:584:VAL:HG12	2:B:585:TYR:N	2.29	0.47
2:B:599:TRP:CE3	2:B:599:TRP:HA	2.48	0.47
2:B:825:VAL:N	2:B:828:GLU:OE1	2.39	0.47
2:B:940:THR:HG22	2:B:942:LEU:HD22	1.97	0.47
1:C:1217:LEU:HD13	1:C:1237:SER:HA	1.95	0.47
1:C:1183:GLN:HE22	1:C:1232:LEU:HD22	1.80	0.47
1:C:153:LYS:O	1:C:154:PRO:C	2.53	0.47
1:C:163:PHE:CD2	1:C:201:ILE:HG12	2.49	0.47
1:C:373:VAL:CG2	1:C:418:ALA:HB3	2.43	0.47
1:C:531:THR:O	1:C:534:MET:HG3	2.15	0.47
1:C:706:ASN:HD21	1:C:709:GLU:HB2	1.79	0.47
2:D:203:TYR:O	2:D:204:GLU:C	2.53	0.47
2:D:781:ARG:HD3	2:D:781:ARG:HA	1.58	0.47
2:D:842:GLU:O	2:D:844:ILE:HG23	2.15	0.47
1:A:1040:ILE:O	1:A:1043:GLN:HB2	2.14	0.47
1:A:1102:ASN:HD21	1:C:1162:VAL:N	1.99	0.47
1:A:117:MET:HB2	1:A:118:PRO:HD2	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:502:LEU:HB2	1:A:541:LEU:CD2	2.45	0.47
1:A:889:GLU:HB2	1:A:892:SER:CB	2.39	0.47
1:A:930:VAL:HA	1:A:931:PRO:HD3	1.78	0.47
2:B:416:ASN:HA	2:B:425:GLN:NE2	2.29	0.47
2:B:436:GLN:O	2:B:437:THR:C	2.53	0.47
2:B:735:ASN:CB	2:B:869:GLN:HE22	2.27	0.47
1:C:958:GLU:HA	1:C:1346:LEU:O	2.14	0.47
1:C:1549:LYS:HZ3	1:C:1549:LYS:HG3	1.57	0.47
1:C:174:VAL:CG2	1:C:175:GLU:N	2.77	0.47
1:C:500:ASN:O	1:C:542:VAL:HA	2.15	0.47
2:D:1581:TYR:HA	2:D:1608:GLU:O	2.15	0.47
2:D:557:GLN:HA	2:D:557:GLN:OE1	2.15	0.47
1:A:1190:ILE:HD11	1:A:1253:TYR:CZ	2.50	0.47
1:A:1482:LEU:HD23	1:A:1482:LEU:O	2.15	0.47
1:A:641:ASN:OD1	1:A:644:ASN:HB2	2.15	0.47
1:A:571:LEU:CD2	1:A:812:ALA:HB2	2.44	0.47
2:B:1370:ARG:HG2	2:B:1371:TYR:O	2.14	0.47
2:B:1623:LYS:CA	2:B:1623:LYS:HZ3	2.28	0.47
2:B:478:TYR:HD1	2:B:478:TYR:O	1.98	0.47
1:C:1320:LYS:HD2	1:C:1321:GLY:N	2.22	0.47
1:C:1559:TYR:OH	1:C:1591:VAL:HA	2.14	0.47
1:C:54:ILE:HG12	1:C:106:VAL:HG13	1.95	0.47
1:C:59:TYR:CD1	1:C:60:PRO:CD	2.97	0.47
1:C:837:GLU:C	1:C:901:LEU:HD12	2.34	0.47
2:D:1509:PRO:O	2:D:1512:ILE:HG13	2.14	0.47
2:D:481:TYR:C	2:D:481:TYR:CD2	2.87	0.47
2:D:545:MET:HG3	2:D:798:LYS:O	2.15	0.47
2:D:63:ARG:HB2	2:D:65:GLN:HG3	1.97	0.47
2:D:916:VAL:CG2	2:D:917:PRO:N	2.78	0.47
1:A:1004:PRO:HG3	1:A:1461:ILE:HD13	1.97	0.47
1:A:1044:LYS:O	1:A:1047:LYS:HB3	2.15	0.47
1:A:1054:LEU:HD22	1:A:1057:MET:CE	2.45	0.47
1:A:950:TYR:HD1	1:A:1268:ASN:OD1	1.98	0.47
1:A:820:PHE:O	1:A:821:LYS:CG	2.62	0.47
1:A:834:VAL:HA	1:A:930:VAL:O	2.15	0.47
2:B:1270:HIS:O	2:B:1270:HIS:CG	2.68	0.47
2:B:236:TYR:C	2:B:238:ASP:N	2.68	0.47
2:B:553:ASP:CG	2:B:555:LEU:HD11	2.34	0.47
2:B:148:PHE:CB	2:B:800:ILE:HD11	2.45	0.47
2:B:964:ILE:HG22	2:B:964:ILE:O	2.15	0.47
1:C:1488:LEU:HD12	1:C:1488:LEU:C	2.35	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1421:HIS:NE2	1:C:1498:TYR:CD1	2.82	0.47
1:C:1548:ARG:HD3	1:C:1548:ARG:H	1.79	0.47
1:C:1565:ILE:O	1:C:1566:THR:HG22	2.14	0.47
1:C:624:PHE:CD1	1:C:625:GLN:N	2.83	0.47
2:D:1296:ASN:O	2:D:1297:ALA:C	2.53	0.47
2:D:1380:THR:HG22	2:D:1381:ILE:H	1.79	0.47
2:D:354:PHE:CE2	2:D:409:LEU:HB2	2.50	0.47
2:D:435:TYR:CE1	2:D:616:ASN:HA	2.50	0.47
2:D:621:PHE:H	2:D:621:PHE:HD2	1.62	0.47
2:D:818:LEU:O	2:D:818:LEU:HG	2.15	0.47
1:A:987:ILE:HG22	1:A:1021:VAL:HG23	1.96	0.47
1:A:1076:THR:HG22	1:A:1144:LEU:HD11	1.97	0.47
1:A:265:VAL:HG23	1:A:292:LEU:H	1.79	0.47
2:B:866:TYR:OH	2:B:1388:THR:HG21	2.15	0.47
2:B:646:GLN:HB3	2:B:647:PRO:CD	2.35	0.47
1:C:1159:CYS:N	1:C:1160:PRO:CD	2.77	0.47
1:C:1209:VAL:HG12	1:C:1210:SER:N	2.30	0.47
1:C:1450:PHE:HA	1:C:1464:LEU:HB3	1.97	0.47
1:C:1475:VAL:HG22	1:C:1476:ARG:N	2.30	0.47
1:C:165:ASP:HB2	1:C:166:PRO:HD2	1.97	0.47
1:C:354:LEU:HA	1:C:374:GLN:O	2.15	0.47
1:C:364:LYS:HE2	1:C:465:LEU:O	2.14	0.47
1:C:549:GLU:CD	1:C:549:GLU:N	2.56	0.47
1:C:599:TRP:HE1	1:C:779:LEU:CD1	2.27	0.47
1:C:794:LEU:HD12	1:C:794:LEU:N	2.30	0.47
2:D:1349:VAL:HA	2:D:1364:MET:O	2.14	0.47
2:D:1402:LYS:HA	2:D:1402:LYS:HD3	1.52	0.47
2:D:1412:GLU:HB2	2:D:1419:GLN:CG	2.45	0.47
2:D:252:LEU:HD22	2:D:582:LYS:HB3	1.97	0.47
2:D:59:HIS:O	2:D:104:VAL:HG23	2.14	0.47
1:A:1454:GLN:C	1:A:1455:ILE:HD12	2.35	0.47
1:A:1548:ARG:HD3	1:A:1548:ARG:H	1.80	0.47
1:A:365:PRO:CG	1:A:464:TYR:CE2	2.97	0.47
1:A:500:ASN:O	1:A:542:VAL:HA	2.15	0.47
2:B:1330:ASN:N	2:B:1330:ASN:HD22	2.12	0.47
2:B:1599:TYR:N	2:B:1599:TYR:HD1	2.13	0.47
2:B:525:GLN:NE2	2:B:528:ASN:H	2.13	0.47
2:B:563:MET:HG3	2:B:780:LEU:CD2	2.43	0.47
1:C:1188:LEU:HD23	1:C:1212:LEU:CD2	2.45	0.47
1:C:1000:LEU:HD22	1:C:1281:GLY:CA	2.45	0.47
1:C:1304:VAL:CG1	1:C:1305:LYS:H	2.27	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1323:LEU:CD1	1:C:1324:HIS:H	2.27	0.47
1:C:238:ILE:HG12	1:C:246:PHE:HE1	1.80	0.47
1:C:25:ILE:HD13	1:C:41:ILE:HG13	1.96	0.47
1:C:968:VAL:HG23	1:C:971:THR:CG2	2.44	0.47
2:D:1506:ILE:HD11	2:D:1628:PHE:CE1	2.50	0.47
2:D:555:LEU:HG	2:D:555:LEU:H	1.48	0.47
2:D:584:VAL:HG12	2:D:585:TYR:N	2.29	0.47
2:D:853:ASN:C	2:D:853:ASN:OD1	2.53	0.47
2:D:745:ILE:HG22	2:D:897:LYS:HD3	1.93	0.47
1:A:1113:LEU:HD23	1:A:1114:ASP:N	2.29	0.47
1:A:1344:ASP:OD1	1:A:1345:ASP:N	2.47	0.47
1:A:136:THR:HG21	1:A:222:TYR:HB2	1.96	0.47
1:A:36:SER:HA	1:A:86:THR:CG2	2.45	0.47
2:B:137:TYR:CE1	2:B:143:VAL:HG22	2.49	0.47
2:B:524:TYR:O	2:B:524:TYR:HD1	1.98	0.47
1:C:1090:ASN:OD1	1:C:1094:GLU:HA	2.15	0.47
1:C:1084:ARG:NE	1:C:1154:LYS:HE3	2.30	0.47
1:C:1268:ASN:H	1:C:1268:ASN:HD22	1.62	0.47
1:C:1584:ILE:HG22	1:C:1586:LYS:H	1.80	0.47
1:C:165:ASP:O	1:C:165:ASP:OD2	2.32	0.47
1:C:558:SER:HB3	1:C:645:VAL:HG13	1.97	0.47
2:D:433:ILE:HG22	2:D:434:ALA:N	2.30	0.47
2:D:478:TYR:HD1	2:D:478:TYR:O	1.98	0.47
2:D:518:PHE:CD2	2:D:518:PHE:C	2.88	0.47
2:D:515:ILE:HG21	2:D:599:TRP:CZ2	2.50	0.47
2:D:78:ALA:C	2:D:80:GLY:H	2.18	0.47
1:A:1026:GLU:HA	1:A:1031:TRP:HE1	1.79	0.46
1:A:1358:THR:HB	1:A:1360:HIS:CE1	2.51	0.46
1:A:1480:PHE:CD1	1:A:1480:PHE:N	2.83	0.46
1:A:163:PHE:CD2	1:A:201:ILE:HG12	2.50	0.46
1:A:367:ILE:HD13	1:A:466:TYR:HD2	1.80	0.46
1:A:604:ALA:HB3	1:A:773:TRP:O	2.14	0.46
1:A:784:LYS:HG2	1:A:785:GLN:N	2.30	0.46
1:A:944:LEU:HD23	1:A:944:LEU:N	2.31	0.46
1:A:960:PRO:HB2	1:A:961:TYR:H	1.59	0.46
2:B:1392:PRO:HB2	2:B:1397:LEU:HD22	1.96	0.46
2:B:322:THR:HG21	2:B:326:SER:HG	1.80	0.46
2:B:253:TYR:HE1	2:B:839:TYR:HE2	1.62	0.46
1:C:1146:ALA:O	1:C:1147:PHE:C	2.53	0.46
1:C:116:ARG:O	1:C:117:MET:HB3	2.15	0.46
1:C:136:THR:HG21	1:C:222:TYR:HB2	1.96	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1562:LYS:CD	1:C:1648:TRP:HZ2	2.27	0.46
1:C:36:SER:HA	1:C:86:THR:CG2	2.45	0.46
1:C:938:SER:O	1:C:940:SER:N	2.48	0.46
1:C:985:GLY:O	1:C:987:ILE:N	2.48	0.46
2:D:58:VAL:HG12	2:D:104:VAL:CG2	2.45	0.46
2:D:1275:LEU:HA	2:D:1317:GLY:HA3	1.97	0.46
2:D:930:LEU:HB2	2:D:1321:ALA:HB3	1.96	0.46
2:D:919:GLY:HA2	2:D:1331:ALA:O	2.15	0.46
2:D:196:THR:HG23	2:D:215:ASP:OD1	2.16	0.46
2:D:230:PRO:HG3	2:D:333:GLN:HG2	1.97	0.46
2:D:398:LEU:HA	2:D:398:LEU:HD23	1.67	0.46
2:D:522:ALA:O	2:D:533:ALA:HB1	2.15	0.46
2:D:954:VAL:O	2:D:957:THR:HG23	2.16	0.46
1:A:1037:ASP:HA	1:A:1038:PRO:HD3	1.81	0.46
1:A:1180:LEU:HD21	1:A:1208:ILE:HG12	1.95	0.46
1:A:977:LEU:HA	1:A:1361:VAL:HG12	1.97	0.46
1:A:1618:LEU:HD22	1:A:1618:LEU:C	2.35	0.46
1:A:392:ALA:HB2	1:A:433:PHE:CB	2.45	0.46
1:A:888:VAL:CG2	1:A:894:HIS:HB2	2.38	0.46
2:B:919:GLY:HA2	2:B:1331:ALA:O	2.16	0.46
2:B:1606:TRP:O	2:B:1606:TRP:HD1	1.98	0.46
2:B:1635:LEU:O	2:B:1637:GLU:N	2.48	0.46
2:B:464:PHE:O	2:B:503:LEU:HA	2.14	0.46
2:B:133:ASP:HB3	2:B:757:TRP:CZ3	2.51	0.46
1:C:1563:VAL:CG2	1:C:1619:ILE:HD12	2.43	0.46
1:C:145:VAL:O	1:C:183:ILE:HD12	2.15	0.46
1:C:623:VAL:O	1:C:625:GLN:N	2.49	0.46
1:C:692:HIS:O	1:C:692:HIS:CD2	2.68	0.46
1:C:600:VAL:CG2	1:C:780:VAL:HG21	2.45	0.46
2:D:1300:ALA:O	2:D:1301:ARG:HD2	2.15	0.46
2:D:162:ILE:CG2	2:D:162:ILE:O	2.63	0.46
2:D:232:GLU:C	2:D:234:PHE:H	2.19	0.46
2:D:268:LYS:HG3	2:D:273:LYS:HG2	1.97	0.46
2:D:356:PRO:HD2	2:D:444:TYR:CZ	2.50	0.46
1:C:421:VAL:HG11	2:D:505:THR:HG22	1.97	0.46
2:D:519:ARG:CZ	2:D:608:GLY:HA3	2.44	0.46
2:D:857:CYS:HB3	2:D:885:VAL:CG2	2.46	0.46
1:A:1067:SER:HA	1:A:1074:ALA:HA	1.98	0.46
1:A:111:PHE:CG	1:A:112:SER:N	2.82	0.46
1:A:1265:ASN:C	1:A:1267:VAL:H	2.17	0.46
1:A:1556:GLU:HB2	1:A:1622:LYS:HE2	1.96	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1584:ILE:CG2	1:A:1585:TYR:N	2.72	0.46
1:A:346:LYS:HE3	1:A:348:VAL:HG22	1.97	0.46
1:A:774:LEU:HG	1:A:788:PHE:CE1	2.50	0.46
1:A:909:ASN:O	1:A:910:ILE:HG12	2.15	0.46
2:B:1289:ARG:O	2:B:1290:TYR:HD1	1.96	0.46
2:B:1292:ILE:HD12	2:B:1296:ASN:OD1	2.16	0.46
2:B:1296:ASN:O	2:B:1297:ALA:C	2.53	0.46
2:B:1312:THR:HG22	2:B:1312:THR:O	2.14	0.46
2:B:1635:LEU:O	2:B:1636:THR:C	2.53	0.46
2:B:214:PHE:CD1	2:B:214:PHE:C	2.88	0.46
2:B:433:ILE:HG22	2:B:434:ALA:N	2.30	0.46
1:C:1290:THR:O	1:C:1294:ILE:CG1	2.63	0.46
1:C:1413:GLU:HA	1:C:1413:GLU:OE2	2.15	0.46
1:C:1648:TRP:HE1	1:C:1664:LEU:HD22	1.81	0.46
1:C:683:ILE:O	1:C:687:ALA:HB3	2.15	0.46
2:D:162:ILE:HG21	2:D:202:LYS:HG2	1.97	0.46
2:D:757:TRP:O	2:D:758:LEU:HD23	2.16	0.46
1:A:1000:LEU:HD22	1:A:1281:GLY:CA	2.45	0.46
1:A:1041:GLU:O	1:A:1045:LEU:HG	2.16	0.46
1:A:1068:VAL:HG13	1:A:1069:TRP:N	2.27	0.46
1:A:977:LEU:CD2	1:A:1361:VAL:HG13	2.45	0.46
1:A:1479:ILE:CD1	1:A:1479:ILE:N	2.78	0.46
1:A:1587:THR:HB	1:A:1591:VAL:HG13	1.97	0.46
1:A:164:ILE:HG22	1:A:164:ILE:O	2.15	0.46
1:A:353:LYS:CE	1:A:378:SER:HA	2.46	0.46
2:B:237:ILE:HD11	2:B:309:LEU:CB	2.44	0.46
2:B:390:THR:HG22	2:B:394:GLY:C	2.35	0.46
2:B:629:THR:HA	2:B:635:ASN:OD1	2.15	0.46
1:C:1271:ILE:CD1	1:C:1300:TYR:CZ	2.98	0.46
1:C:1602:LYS:HB3	1:C:1639:LEU:CB	2.45	0.46
1:C:466:TYR:CZ	1:C:468:ASP:HB2	2.50	0.46
1:C:700:TYR:CD2	1:C:701:ASP:N	2.83	0.46
1:C:803:GLY:O	1:C:810:CYS:HB2	2.16	0.46
2:D:345:ILE:HG13	2:D:428:LYS:HB2	1.95	0.46
2:D:806:TYR:CE1	2:D:807:GLU:O	2.68	0.46
2:D:824:VAL:HG22	2:D:825:VAL:H	1.79	0.46
1:A:1086:LEU:CD1	1:A:1095:GLN:HG3	2.39	0.46
1:A:1160:PRO:HG2	1:C:1098:ASN:OD1	2.15	0.46
1:A:1188:LEU:HD23	1:A:1212:LEU:CD2	2.45	0.46
1:A:1266:TYR:CD1	1:A:1266:TYR:O	2.69	0.46
1:A:975:ARG:HH22	1:A:1346:LEU:HD22	1.74	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1565:ILE:HD13	1:A:1565:ILE:N	2.30	0.46
1:A:1658:GLN:NE2	1:A:1661:LEU:HD12	2.31	0.46
1:A:288:GLN:O	1:A:289:ASN:C	2.54	0.46
1:A:488:PRO:O	1:A:489:LYS:O	2.33	0.46
1:A:584:PRO:HD3	1:A:820:PHE:HB2	1.97	0.46
2:B:445:LEU:HD12	2:B:446:HIS:N	2.31	0.46
2:B:469:ASN:CG	2:B:472:SER:HB2	2.35	0.46
2:B:853:ASN:C	2:B:853:ASN:OD1	2.54	0.46
2:B:885:VAL:HA	2:B:886:PRO:HD3	1.76	0.46
1:C:267:ILE:CG2	1:C:268:THR:N	2.78	0.46
1:C:902:PRO:C	1:C:903:LEU:HD22	2.36	0.46
2:D:1522:TYR:HB2	2:D:1524:TYR:CE1	2.50	0.46
2:D:1540:TYR:HE1	2:D:1575:LEU:HB2	1.80	0.46
2:D:1591:LEU:CD2	2:D:1591:LEU:C	2.84	0.46
2:D:162:ILE:HG23	2:D:162:ILE:O	2.16	0.46
2:D:820:MET:HA	2:D:821:PRO:HD3	1.78	0.46
1:A:1175:LEU:HB3	1:A:1195:LEU:HD11	1.97	0.46
1:A:955:ARG:HD3	1:A:1351:GLY:O	2.16	0.46
1:A:1474:CYS:HB3	1:A:1476:ARG:NH1	2.31	0.46
1:A:1616:GLN:NE2	1:A:1648:TRP:CZ3	2.84	0.46
1:A:958:GLU:HA	1:A:1346:LEU:O	2.16	0.46
2:B:210:TYR:CG	2:B:211:THR:N	2.83	0.46
2:B:848:VAL:HG22	2:B:898:ALA:CB	2.43	0.46
2:B:916:VAL:HG22	2:B:917:PRO:N	2.30	0.46
1:C:1320:LYS:CG	1:C:1321:GLY:N	2.79	0.46
1:C:1556:GLU:HB2	1:C:1622:LYS:HE2	1.97	0.46
1:C:1622:LYS:HD2	1:C:1642:LEU:HB2	1.97	0.46
1:C:1623:GLU:CB	1:C:1638:PRO:CG	2.91	0.46
1:C:251:LYS:HG2	1:C:296:ILE:CD1	2.45	0.46
1:C:286:ALA:O	1:C:287:MET:O	2.33	0.46
1:C:702:GLY:HA2	1:C:728:PHE:CD1	2.48	0.46
1:C:820:PHE:CE2	1:C:821:LYS:O	2.69	0.46
2:D:1480:LEU:HD12	2:D:1481:LEU:N	2.31	0.46
2:D:1527:LYS:H	2:D:1545:LEU:HD13	1.81	0.46
2:D:1635:LEU:O	2:D:1636:THR:C	2.53	0.46
2:D:531:ILE:O	2:D:617:ASN:ND2	2.48	0.46
2:D:822:TYR:O	2:D:914:LYS:HB3	2.15	0.46
1:A:1088:GLN:C	1:A:1090:ASN:H	2.19	0.46
1:A:259:VAL:HB	1:A:295:GLY:HA2	1.97	0.46
1:A:501:TYR:CD1	1:A:501:TYR:C	2.89	0.46
1:A:59:TYR:CD1	1:A:60:PRO:CD	2.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:642:ASN:HD21	1:A:646:PHE:HE1	1.63	0.46
1:A:990:ALA:HB1	1:A:1000:LEU:CD1	2.46	0.46
2:B:1591:LEU:C	2:B:1591:LEU:CD2	2.84	0.46
2:B:563:MET:HA	2:B:563:MET:CE	2.45	0.46
2:B:63:ARG:HB2	2:B:65:GLN:HG3	1.98	0.46
1:C:100:SER:O	1:C:101:TYR:HB2	2.15	0.46
1:C:1094:GLU:CD	1:C:1094:GLU:H	2.19	0.46
1:C:1159:CYS:O	1:C:1164:ILE:HD11	2.15	0.46
1:C:352:TYR:HE1	1:C:383:VAL:HG21	1.80	0.46
1:C:392:ALA:HB2	1:C:433:PHE:CB	2.45	0.46
1:C:672:ILE:C	1:C:673:LEU:HG	2.36	0.46
1:C:587:THR:HG22	1:C:789:ALA:HB2	1.97	0.46
2:D:133:ASP:OD2	2:D:134:LYS:HG2	2.15	0.46
2:D:1607:ILE:N	2:D:1607:ILE:CD1	2.59	0.46
2:D:263:VAL:HG22	2:D:318:VAL:HG23	1.98	0.46
2:D:485:ASN:C	2:D:487:GLY:H	2.19	0.46
2:D:481:TYR:CE2	2:D:493:GLY:C	2.88	0.46
2:D:503:LEU:C	2:D:503:LEU:HD23	2.36	0.46
2:D:844:ILE:CD1	2:D:872:ILE:HD11	2.46	0.46
1:A:1117:SER:HB3	1:A:1174:PHE:CD2	2.49	0.46
1:A:1323:LEU:O	1:A:1324:HIS:O	2.33	0.46
1:A:956:ARG:HG2	1:A:1349:SER:HB3	1.98	0.46
1:A:1618:LEU:HD22	1:A:1619:ILE:N	2.31	0.46
1:A:1675:GLY:O	1:A:1676:CYS:OXT	2.34	0.46
1:A:23:TYR:HD1	1:A:23:TYR:C	2.18	0.46
1:A:612:VAL:HG12	1:A:612:VAL:O	2.16	0.46
1:A:692:HIS:O	1:A:692:HIS:CD2	2.69	0.46
1:A:694:VAL:HG12	1:A:697:LYS:HE3	1.98	0.46
1:A:985:GLY:O	1:A:987:ILE:N	2.49	0.46
2:B:485:ASN:C	2:B:487:GLY:H	2.18	0.46
1:C:1013:MET:O	1:C:1017:PRO:HD3	2.16	0.46
1:C:1075:SER:HB2	1:C:1120:GLU:OE1	2.16	0.46
1:C:1142:LEU:HD13	1:C:1187:THR:CG2	2.46	0.46
1:C:968:VAL:HG12	1:C:1368:THR:CG2	2.45	0.46
1:C:1499:HIS:C	1:C:1500:ARG:HG3	2.36	0.46
1:C:1631:PHE:N	1:C:1631:PHE:CD2	2.82	0.46
1:C:431:LEU:HD22	1:C:432:GLU:N	2.30	0.46
1:C:486:VAL:O	1:C:486:VAL:HG12	2.15	0.46
2:D:1330:ASN:H	2:D:1330:ASN:HD22	1.64	0.46
2:D:378:PRO:HG3	2:D:389:THR:HG23	1.97	0.46
2:D:482:LEU:HD13	2:D:482:LEU:O	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:466:VAL:HG12	2:D:524:TYR:CE2	2.50	0.46
2:D:814:PHE:HZ	2:D:846:VAL:HG21	1.81	0.46
1:A:947:ARG:CZ	1:A:1354:SER:HB3	2.46	0.46
1:A:1631:PHE:N	1:A:1631:PHE:CD2	2.80	0.46
1:A:383:VAL:O	1:A:383:VAL:HG22	2.16	0.46
1:A:42:GLN:OE1	1:A:500:ASN:ND2	2.49	0.46
1:A:552:ALA:HB3	1:A:658:ASN:HB3	1.98	0.46
1:A:849:ARG:NH1	1:A:849:ARG:CG	2.76	0.46
1:A:875:HIS:HB3	2:B:901:GLN:HE22	1.81	0.46
1:A:96:GLN:HG3	1:A:97:ASN:H	1.80	0.46
2:B:625:GLY:O	2:B:626:LEU:HG	2.16	0.46
1:C:1570:VAL:CG2	1:C:1575:VAL:HG22	2.46	0.46
1:C:487:THR:HG22	1:C:523:TYR:HB2	1.98	0.46
1:C:691:LYS:O	1:C:693:SER:N	2.49	0.46
1:C:681:LYS:HB2	1:C:738:LEU:HD11	1.96	0.46
2:D:1610:TRP:HA	2:D:1611:PRO:HD2	1.74	0.46
2:D:966:GLN:HG3	2:D:966:GLN:O	2.15	0.46
1:A:1081:PHE:HD1	1:A:1147:PHE:HZ	1.63	0.46
1:A:33:VAL:HG23	1:A:120:THR:O	2.14	0.46
1:A:1183:GLN:HE22	1:A:1232:LEU:HD22	1.81	0.46
1:A:1320:LYS:CG	1:A:1321:GLY:N	2.79	0.46
1:A:1320:LYS:HD2	1:A:1321:GLY:N	2.23	0.46
1:A:153:LYS:O	1:A:154:PRO:C	2.54	0.46
1:A:1563:VAL:HG12	1:A:1581:LEU:CD2	2.46	0.46
1:A:1612:VAL:HB	1:A:1615:ARG:CB	2.46	0.46
1:A:145:VAL:O	1:A:183:ILE:HD12	2.15	0.46
1:A:596:MET:SD	1:A:782:ARG:HG3	2.56	0.46
1:A:709:GLU:HA	1:A:709:GLU:OE1	2.16	0.46
1:A:756:THR:O	1:A:757:LEU:HD23	2.16	0.46
2:B:1407:TYR:O	2:B:1408:ILE:HD13	2.16	0.46
2:B:1448:VAL:O	2:B:1449:GLY:O	2.34	0.46
2:B:1590:LEU:CD2	2:B:1591:LEU:N	2.72	0.46
2:B:1599:TYR:CD1	2:B:1599:TYR:N	2.84	0.46
2:B:1628:PHE:O	2:B:1629:ALA:C	2.54	0.46
2:B:275:SER:C	2:B:277:PRO:HD3	2.36	0.46
2:B:409:LEU:HD12	2:B:409:LEU:C	2.36	0.46
2:B:950:LEU:O	2:B:951:ASP:HB2	2.16	0.46
1:C:1026:GLU:HA	1:C:1031:TRP:HE1	1.80	0.46
1:C:398:ASN:O	1:C:399:GLN:HB2	2.16	0.46
1:C:604:ALA:HB3	1:C:773:TRP:O	2.14	0.46
1:C:565:GLU:HG3	1:C:624:PHE:CG	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:696:LYS:HZ3	1:C:759:PRO:HG2	1.79	0.46
2:D:164:GLU:HB2	2:D:200:VAL:HG23	1.97	0.46
2:D:365:TYR:HA	2:D:394:GLY:O	2.16	0.46
2:D:361:GLU:HB3	2:D:399:ILE:CD1	2.46	0.46
2:D:833:ARG:HB2	2:D:833:ARG:HE	1.56	0.46
1:A:1037:ASP:O	1:A:1040:ILE:HB	2.15	0.45
1:A:1053:MET:HE3	1:A:1086:LEU:CD2	2.46	0.45
1:A:1304:VAL:CG1	1:A:1305:LYS:H	2.28	0.45
1:A:1365:VAL:CG2	1:A:1366:HIS:H	2.25	0.45
1:A:1365:VAL:CG2	1:A:1366:HIS:N	2.77	0.45
1:A:156:LYS:O	1:A:156:LYS:HG3	2.16	0.45
1:A:1570:VAL:HG22	1:A:1575:VAL:HG13	1.97	0.45
1:A:487:THR:HG22	1:A:523:TYR:HB2	1.98	0.45
1:A:824:PHE:O	1:A:845:VAL:HG22	2.17	0.45
2:B:1382:ILE:HG12	2:B:1427:LEU:HD11	1.96	0.45
2:B:1512:ILE:HG22	2:B:1631:PHE:CE1	2.51	0.45
2:B:257:VAL:HG12	2:B:258:GLU:N	2.30	0.45
2:B:263:VAL:HG13	2:B:318:VAL:HA	1.97	0.45
2:B:415:THR:O	2:B:425:GLN:HB3	2.16	0.45
2:B:511:THR:H	2:B:514:LEU:CD1	2.29	0.45
2:B:916:VAL:CG2	2:B:917:PRO:HD2	2.45	0.45
1:C:1106:TRP:CE3	1:C:1107:LEU:HD13	2.51	0.45
1:C:1151:GLY:O	1:C:1152:ILE:C	2.54	0.45
1:C:1189:ALA:O	1:C:1192:ALA:HB3	2.15	0.45
1:C:1271:ILE:HG21	1:C:1300:TYR:CD1	2.51	0.45
1:C:1532:CYS:SG	1:C:1533:GLY:N	2.89	0.45
1:C:1638:PRO:O	1:C:1639:LEU:HD23	2.16	0.45
1:C:270:GLY:HA3	1:C:282:MET:CG	2.46	0.45
1:C:690:TYR:CZ	1:C:692:HIS:HB2	2.51	0.45
2:D:1292:ILE:HD12	2:D:1296:ASN:OD1	2.16	0.45
2:D:813:VAL:HG12	2:D:840:VAL:HG22	1.98	0.45
1:A:120:THR:HG22	1:A:122:ASP:N	2.27	0.45
1:A:123:ASN:HB3	1:A:209:PHE:CD2	2.51	0.45
1:A:956:ARG:HA	1:A:1348:VAL:O	2.16	0.45
1:A:309:GLU:N	1:A:309:GLU:OE1	2.50	0.45
1:A:706:ASN:HD21	1:A:709:GLU:HB2	1.81	0.45
2:B:108:VAL:O	2:B:114:ARG:HA	2.16	0.45
2:B:924:ILE:HD13	2:B:1329:TYR:HE2	1.82	0.45
2:B:1602:THR:C	2:B:1604:ASN:N	2.69	0.45
2:B:226:VAL:HG21	2:B:320:VAL:HG11	1.98	0.45
2:B:543:THR:OG1	2:B:544:CYS:N	2.42	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:59:HIS:O	2:B:104:VAL:HG23	2.16	0.45
2:B:56:ILE:HG12	2:B:71:THR:O	2.16	0.45
2:B:884:ILE:CG1	2:B:885:VAL:N	2.79	0.45
2:B:96:THR:HB	2:B:123:TYR:OH	2.15	0.45
1:C:161:LEU:HD11	1:C:185:PHE:CD2	2.51	0.45
1:C:232:GLU:HA	1:C:233:PRO:HD3	1.77	0.45
1:C:248:ILE:HD13	1:C:325:ILE:CD1	2.46	0.45
1:C:639:GLY:H	1:C:645:VAL:CG2	2.29	0.45
1:C:702:GLY:CA	1:C:728:PHE:CE1	2.88	0.45
2:D:1407:TYR:O	2:D:1408:ILE:HD13	2.16	0.45
2:D:1480:LEU:HD12	2:D:1481:LEU:O	2.17	0.45
2:D:1528:LEU:HD13	2:D:1542:MET:HE2	1.98	0.45
2:D:130:ILE:HD13	2:D:199:ILE:HG22	1.98	0.45
2:D:553:ASP:CG	2:D:555:LEU:HD11	2.36	0.45
1:A:1061:ASN:HB3	1:A:1062:ALA:H	1.52	0.45
1:A:1103:SER:O	1:A:1106:TRP:N	2.48	0.45
1:A:1404:ALA:HB1	1:A:1493:PHE:HE2	1.74	0.45
1:A:161:LEU:HD11	1:A:185:PHE:CE1	2.51	0.45
1:A:163:PHE:HE1	1:A:188:PHE:HB2	1.81	0.45
1:A:227:PHE:HB2	1:A:338:GLU:HG3	1.98	0.45
1:A:333:THR:OG1	1:A:334:GLY:N	2.49	0.45
1:A:560:TRP:CZ3	1:A:562:ASN:HB2	2.51	0.45
1:A:803:GLY:O	1:A:810:CYS:HB3	2.15	0.45
2:B:1284:ARG:HG3	2:B:1285:GLU:H	1.71	0.45
2:B:1504:GLU:OE2	2:B:1505:ARG:N	2.49	0.45
2:B:1509:PRO:O	2:B:1512:ILE:HG13	2.15	0.45
2:B:164:GLU:HB2	2:B:200:VAL:CG2	2.47	0.45
2:B:353:TYR:CD2	2:B:614:GLY:C	2.89	0.45
2:B:490:PHE:CG	2:B:491:LYS:N	2.83	0.45
2:B:466:VAL:HG12	2:B:524:TYR:CE2	2.51	0.45
2:B:824:VAL:HG22	2:B:825:VAL:N	2.32	0.45
2:B:954:VAL:HG12	2:B:955:PRO:HD2	1.99	0.45
1:C:1088:GLN:O	1:C:1090:ASN:N	2.49	0.45
1:C:101:TYR:CE1	1:C:116:ARG:CZ	2.97	0.45
1:C:120:THR:CG2	1:C:122:ASP:H	2.27	0.45
1:C:1290:THR:O	1:C:1294:ILE:HG12	2.16	0.45
1:C:265:VAL:HG23	1:C:292:LEU:H	1.80	0.45
1:C:641:ASN:OD1	1:C:644:ASN:HB2	2.15	0.45
2:D:1292:ILE:HD11	2:D:1301:ARG:NE	2.30	0.45
2:D:1444:LYS:CE	2:D:1447:GLU:HA	2.43	0.45
2:D:1466:GLU:OE2	2:D:1468:CYS:HB2	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:1526:THR:CG2	2:D:1583:ILE:HG13	2.46	0.45
2:D:198:ARG:HB3	2:D:213:TYR:HE1	1.80	0.45
2:D:228:LEU:HD12	2:D:333:GLN:HB2	1.97	0.45
2:D:484:LEU:HD11	2:D:626:LEU:HD11	1.98	0.45
2:D:563:MET:O	2:D:777:SER:HA	2.16	0.45
1:A:1066:TYR:HD1	1:A:1066:TYR:N	2.13	0.45
1:A:1088:GLN:C	1:A:1090:ASN:N	2.69	0.45
1:A:1099:SER:O	1:A:1100:ILE:C	2.55	0.45
1:A:1233:GLN:O	1:A:1234:HIS:HB3	2.17	0.45
1:A:152:LEU:HD12	1:A:152:LEU:HA	1.81	0.45
1:A:1560:ALA:O	1:A:1561:TYR:HB3	2.16	0.45
1:A:1584:ILE:HG22	1:A:1586:LYS:H	1.82	0.45
1:A:267:ILE:CG2	1:A:268:THR:N	2.79	0.45
1:A:226:HIS:ND1	1:A:336:PHE:CE2	2.85	0.45
1:A:791:PRO:CD	1:A:797:TRP:HE1	2.28	0.45
2:B:963:ILE:CD1	2:B:1311:ILE:HG12	2.45	0.45
2:B:196:THR:HG23	2:B:215:ASP:OD1	2.16	0.45
2:B:203:TYR:O	2:B:204:GLU:C	2.55	0.45
2:B:345:ILE:HD11	2:B:427:THR:N	2.31	0.45
1:C:1128:LYS:HG3	1:C:1128:LYS:O	2.15	0.45
1:C:1152:ILE:CG2	1:C:1168:LEU:HD21	2.41	0.45
1:C:296:ILE:CG2	1:C:297:ALA:N	2.78	0.45
1:C:330:ILE:HG13	1:C:330:ILE:O	2.16	0.45
1:C:934:VAL:O	1:C:935:LYS:HG3	2.16	0.45
1:C:942:VAL:CG2	1:C:1359:VAL:HB	2.47	0.45
2:D:1506:ILE:CD1	2:D:1628:PHE:CD1	2.99	0.45
2:D:183:PHE:N	2:D:183:PHE:HD2	2.13	0.45
2:D:267:VAL:HG13	2:D:313:THR:O	2.16	0.45
2:D:416:ASN:HA	2:D:425:GLN:NE2	2.30	0.45
2:D:464:PHE:HB3	2:D:479:PHE:CE2	2.51	0.45
2:D:445:LEU:HD12	2:D:465:ASN:O	2.17	0.45
2:D:83:VAL:HB	2:D:85:PRO:HD3	1.98	0.45
2:D:964:ILE:O	2:D:964:ILE:HG22	2.17	0.45
1:A:1096:ASN:O	1:A:1099:SER:HB3	2.16	0.45
1:A:363:LEU:HD12	1:A:456:ALA:HA	1.98	0.45
1:A:672:ILE:O	1:A:673:LEU:HG	2.15	0.45
1:A:691:LYS:O	1:A:693:SER:N	2.50	0.45
1:A:820:PHE:CZ	1:A:822:ASP:HB2	2.51	0.45
1:A:902:PRO:C	1:A:903:LEU:HD22	2.37	0.45
2:B:829:GLN:HG2	2:B:1480:LEU:HD13	1.99	0.45
2:B:1527:LYS:O	2:B:1529:LEU:HD12	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:402:ILE:HA	2:B:403:PRO:HD2	1.76	0.45
1:C:1037:ASP:HA	1:C:1038:PRO:HD3	1.79	0.45
1:C:1054:LEU:HD22	1:C:1057:MET:CE	2.46	0.45
1:C:1079:THR:HG21	1:C:1107:LEU:CD1	2.46	0.45
1:C:1212:LEU:O	1:C:1212:LEU:HD13	2.17	0.45
1:C:365:PRO:CG	1:C:464:TYR:HE2	2.28	0.45
1:C:640:LEU:N	1:C:644:ASN:HB3	2.28	0.45
1:C:908:HIS:O	1:C:909:ASN:CB	2.64	0.45
2:D:1448:VAL:O	2:D:1449:GLY:O	2.34	0.45
2:D:1502:HIS:O	2:D:1503:GLN:HB2	2.16	0.45
1:C:917:TRP:O	2:D:813:VAL:CG2	2.65	0.45
1:C:856:CYS:HB2	2:D:904:LEU:HD11	1.97	0.45
1:A:1112:GLN:HB2	1:A:1118:PHE:CE1	2.49	0.45
1:A:1020:TYR:HE1	1:A:1295:GLU:HG3	1.80	0.45
1:A:1364:VAL:O	1:A:1364:VAL:HG13	2.16	0.45
1:A:1404:ALA:HB1	1:A:1493:PHE:CZ	2.49	0.45
1:A:1455:ILE:N	1:A:1455:ILE:HD12	2.29	0.45
1:A:1549:LYS:HZ3	1:A:1549:LYS:HG3	1.59	0.45
1:A:1627:ILE:O	1:A:1629:TYR:N	2.50	0.45
1:A:357:VAL:HG12	1:A:358:ALA:N	2.31	0.45
1:A:706:ASN:HD22	1:A:709:GLU:H	1.65	0.45
1:A:792:ASP:O	1:A:793:SER:CB	2.63	0.45
1:A:829:ILE:CG1	1:A:925:LYS:HG2	2.41	0.45
2:B:942:LEU:HD13	2:B:1314:THR:HG23	1.98	0.45
2:B:1393:ASP:CB	2:B:1443:LEU:HD11	2.42	0.45
2:B:1500:LEU:CD1	2:B:1500:LEU:C	2.84	0.45
2:B:824:VAL:HG12	2:B:913:LEU:HD21	1.99	0.45
1:C:1552:ALA:HB2	1:C:1620:MET:CE	2.47	0.45
1:C:1581:LEU:HD11	1:C:1598:ILE:HD11	1.96	0.45
1:C:1602:LYS:HB3	1:C:1639:LEU:HB2	1.99	0.45
1:C:1627:ILE:O	1:C:1629:TYR:N	2.50	0.45
1:C:32:ARG:HB2	1:C:35:ALA:HB2	1.98	0.45
1:C:672:ILE:O	1:C:673:LEU:HG	2.16	0.45
1:C:709:GLU:OE1	1:C:709:GLU:HA	2.16	0.45
1:C:773:TRP:NE1	1:C:797:TRP:NE1	2.64	0.45
2:D:1270:HIS:CG	2:D:1270:HIS:O	2.70	0.45
2:D:1508:VAL:HB	2:D:1509:PRO:HD3	1.98	0.45
2:D:243:PHE:CE1	2:D:336:ILE:HG21	2.52	0.45
2:D:525:GLN:NE2	2:D:528:ASN:H	2.14	0.45
1:C:856:CYS:SG	2:D:904:LEU:HD21	2.57	0.45
1:A:1020:TYR:O	1:A:1021:VAL:C	2.54	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1079:THR:HG22	1:A:1107:LEU:HD21	1.99	0.45
1:A:1290:THR:O	1:A:1294:ILE:CG1	2.65	0.45
1:A:1381:ILE:HD13	1:A:1509:TYR:CG	2.52	0.45
1:A:272:ARG:O	1:A:321:LYS:HB2	2.17	0.45
1:A:364:LYS:HE2	1:A:465:LEU:O	2.16	0.45
1:A:531:THR:O	1:A:534:MET:HG3	2.16	0.45
1:A:700:TYR:CD2	1:A:701:ASP:N	2.83	0.45
2:B:323:GLU:C	2:B:323:GLU:OE1	2.55	0.45
2:B:954:VAL:HB	2:B:957:THR:CG2	2.35	0.45
1:C:915:GLU:OE2	2:D:903:ALA:HA	2.17	0.45
2:D:111:PRO:O	2:D:113:VAL:HG23	2.17	0.45
2:D:1523:VAL:O	2:D:1548:ILE:HB	2.17	0.45
2:D:825:VAL:O	2:D:826:LYS:C	2.55	0.45
2:D:848:VAL:HG22	2:D:898:ALA:CB	2.43	0.45
1:A:78:LYS:HD2	1:A:498:HIS:NE2	2.32	0.45
2:B:1290:TYR:CD2	2:B:1301:ARG:HB3	2.51	0.45
2:B:1326:LEU:HD11	2:B:1328:PHE:HE2	1.82	0.45
2:B:1601:ILE:HD12	2:B:1601:ILE:H	1.82	0.45
2:B:1601:ILE:N	2:B:1601:ILE:CD1	2.77	0.45
2:B:183:PHE:HD2	2:B:183:PHE:N	2.15	0.45
2:B:553:ASP:O	2:B:555:LEU:HG	2.17	0.45
2:B:151:ASP:HB2	2:B:794:PHE:HZ	1.82	0.45
2:B:172:LEU:HD23	2:B:966:GLN:NE2	2.31	0.45
1:C:1130:GLN:NE2	1:C:1230:ASP:HB3	2.32	0.45
1:C:1190:ILE:O	1:C:1191:SER:C	2.55	0.45
1:C:1213:LYS:C	1:C:1215:GLU:H	2.20	0.45
1:C:1323:LEU:O	1:C:1324:HIS:O	2.35	0.45
1:C:1565:ILE:N	1:C:1565:ILE:HD13	2.32	0.45
1:C:156:LYS:O	1:C:156:LYS:HG3	2.16	0.45
1:C:142:LYS:HA	1:C:187:ASP:OD1	2.17	0.45
1:C:371:ILE:HG21	1:C:390:LEU:CD2	2.47	0.45
1:C:803:GLY:O	1:C:810:CYS:HB3	2.16	0.45
1:C:889:GLU:HB2	1:C:892:SER:CB	2.38	0.45
2:D:1273:LEU:HB2	2:D:1319:GLY:CA	2.36	0.45
2:D:370:ASP:OD1	2:D:370:ASP:N	2.50	0.45
2:D:417:HIS:N	2:D:425:GLN:OE1	2.48	0.45
1:A:1127:ILE:HG12	1:A:1143:TYR:CE2	2.51	0.45
1:A:1289:ASP:O	1:A:1290:THR:C	2.55	0.45
1:A:1324:HIS:CD2	1:A:1336:ARG:NH2	2.85	0.45
1:A:1562:LYS:HD2	1:A:1648:TRP:CZ2	2.46	0.45
1:A:163:PHE:CE1	1:A:188:PHE:CG	3.04	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:522:SER:HB2	1:A:523:TYR:H	1.60	0.45
1:A:690:TYR:CZ	1:A:692:HIS:HB2	2.52	0.45
1:A:963:ILE:HG23	1:A:967:LEU:HD23	1.97	0.45
2:B:1282:PRO:HD2	2:B:1309:GLN:CD	2.37	0.45
2:B:1294:TYR:O	2:B:1294:TYR:HD2	1.99	0.45
2:B:1540:TYR:CE1	2:B:1575:LEU:HB2	2.51	0.45
2:B:228:LEU:CD2	2:B:247:ILE:HG12	2.47	0.45
2:B:390:THR:HG22	2:B:395:THR:N	2.32	0.45
2:B:545:MET:HG3	2:B:798:LYS:O	2.16	0.45
1:C:1184:SER:O	1:C:1187:THR:HB	2.17	0.45
1:C:1568:ILE:CG2	1:C:1577:TYR:HE1	2.26	0.45
1:C:683:ILE:O	1:C:687:ALA:CB	2.65	0.45
1:C:773:TRP:CZ2	1:C:797:TRP:CD1	3.02	0.45
1:C:862:VAL:HB	1:C:865:ILE:CG1	2.45	0.45
1:C:916:THR:O	1:C:918:PHE:N	2.50	0.45
1:C:829:ILE:CG1	1:C:925:LYS:HG2	2.47	0.45
2:D:1323:MET:HE3	2:D:1325:ILE:HD11	1.97	0.45
2:D:309:LEU:O	2:D:310:VAL:C	2.54	0.45
2:D:455:LYS:O	2:D:458:ASP:HB2	2.17	0.45
2:D:518:PHE:CD2	2:D:518:PHE:O	2.69	0.45
2:D:61:PHE:CE2	2:D:62:PRO:HB3	2.51	0.45
2:D:954:VAL:CG1	2:D:955:PRO:HD2	2.47	0.45
2:D:172:LEU:HD23	2:D:966:GLN:NE2	2.31	0.45
1:A:1184:SER:O	1:A:1187:THR:HB	2.17	0.45
1:A:1245:ALA:HB2	1:A:1285:TYR:HB3	1.98	0.45
1:A:1535:MET:HE2	1:A:1645:ILE:HG21	1.99	0.45
1:A:161:LEU:HD11	1:A:185:PHE:CD2	2.52	0.45
1:A:1623:GLU:CB	1:A:1638:PRO:CG	2.93	0.45
1:A:32:ARG:HB2	1:A:35:ALA:HB2	1.99	0.45
1:A:554:LEU:HA	1:A:554:LEU:HD23	1.67	0.45
1:A:829:ILE:HD12	1:A:829:ILE:N	2.32	0.45
1:A:862:VAL:HG12	1:A:907:LEU:HD21	1.99	0.45
2:B:1623:LYS:HB3	2:B:1623:LYS:HZ2	1.82	0.45
2:B:265:PHE:O	2:B:276:ILE:HG13	2.17	0.45
2:B:348:THR:O	2:B:348:THR:OG1	2.27	0.45
2:B:373:PRO:HB3	2:B:393:ASP:O	2.17	0.45
2:B:78:ALA:O	2:B:80:GLY:N	2.49	0.45
2:B:148:PHE:HB2	2:B:800:ILE:HD11	1.99	0.45
1:C:1243:GLY:O	1:C:1285:TYR:CE2	2.69	0.45
1:C:1525:CYS:N	1:C:1528:VAL:HG13	2.32	0.45
1:C:23:TYR:C	1:C:23:TYR:CD1	2.90	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:259:VAL:HB	1:C:295:GLY:HA2	1.98	0.45
1:C:532:GLN:O	1:C:535:VAL:HG22	2.17	0.45
1:C:694:VAL:HG12	1:C:697:LYS:HE3	1.99	0.45
1:C:87:ILE:HG12	1:C:87:ILE:O	2.16	0.45
2:D:103:TYR:HD2	2:D:103:TYR:N	2.15	0.45
2:D:151:ASP:HB2	2:D:794:PHE:HZ	1.82	0.45
2:D:490:PHE:CG	2:D:491:LYS:N	2.85	0.45
2:D:80:GLY:O	2:D:81:MET:HB2	2.17	0.45
1:A:968:VAL:HG12	1:A:1368:THR:CG2	2.47	0.44
1:A:1638:PRO:O	1:A:1639:LEU:HD23	2.17	0.44
1:A:1641:SER:C	1:A:1643:THR:N	2.71	0.44
1:A:501:TYR:CD1	1:A:501:TYR:O	2.69	0.44
1:A:500:ASN:CB	1:A:543:TYR:HE1	2.10	0.44
1:A:839:ILE:CD1	1:A:1485:VAL:HG12	2.48	0.44
1:A:947:ARG:NH1	1:A:1352:PHE:CE2	2.84	0.44
2:B:1594:LYS:HA	2:B:1594:LYS:HE2	1.97	0.44
2:B:484:LEU:HD11	2:B:626:LEU:CD1	2.47	0.44
2:B:628:LEU:HB3	2:B:636:THR:HG23	1.98	0.44
2:B:829:GLN:CA	2:B:829:GLN:HE21	2.30	0.44
1:C:1061:ASN:HB2	1:C:1065:SER:O	2.17	0.44
1:C:1175:LEU:HB3	1:C:1195:LEU:HD11	1.98	0.44
1:C:120:THR:HG22	1:C:121:TYR:N	2.32	0.44
1:C:1320:LYS:HG2	1:C:1342:LEU:HD12	1.99	0.44
1:C:1564:SER:O	1:C:1579:ALA:HB1	2.17	0.44
1:C:185:PHE:CB	1:C:186:PRO:HD2	2.47	0.44
1:C:701:ASP:N	1:C:701:ASP:OD1	2.50	0.44
2:D:1312:THR:HG22	2:D:1312:THR:O	2.16	0.44
2:D:1387:LEU:O	2:D:1390:PHE:HB2	2.17	0.44
2:D:382:GLU:C	2:D:384:PHE:N	2.71	0.44
2:D:884:ILE:CG1	2:D:885:VAL:N	2.79	0.44
1:A:1084:ARG:NE	1:A:1154:LYS:HE3	2.33	0.44
1:A:1313:ILE:HD13	1:A:1350:THR:HB	1.99	0.44
1:A:1329:THR:OG1	1:A:1331:LYS:HG2	2.18	0.44
1:A:935:LYS:HD3	1:A:1373:GLU:OE2	2.18	0.44
1:A:161:LEU:H	1:A:161:LEU:HD12	1.82	0.44
1:A:1648:TRP:HE1	1:A:1664:LEU:HD22	1.82	0.44
1:A:534:MET:H	1:A:534:MET:HG3	1.56	0.44
2:B:1529:LEU:O	2:B:1577:VAL:HG13	2.16	0.44
2:B:1613:GLU:O	2:B:1616:CYS:CB	2.63	0.44
2:B:71:THR:HG23	2:B:72:ARG:N	2.32	0.44
1:C:23:TYR:HD1	1:C:23:TYR:C	2.20	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:180:ILE:CG2	1:C:599:TRP:CE3	3.00	0.44
1:C:115:LYS:HE3	1:C:654:LEU:HD11	1.99	0.44
1:C:682:LYS:HZ2	1:C:686:ILE:CD1	2.14	0.44
2:D:400:LEU:HB3	2:D:402:ILE:HD11	1.99	0.44
1:A:1209:VAL:HG12	1:A:1210:SER:N	2.32	0.44
1:A:1217:LEU:HD13	1:A:1237:SER:HA	1.99	0.44
1:A:1231:ASN:O	1:A:1234:HIS:O	2.35	0.44
1:A:1377:PHE:CD1	1:A:1408:TYR:HA	2.53	0.44
1:A:539:ARG:NH2	1:A:634:CYS:N	2.52	0.44
1:A:690:TYR:C	1:A:692:HIS:H	2.19	0.44
1:A:961:TYR:HE1	1:A:963:ILE:HG12	1.83	0.44
2:B:130:ILE:HD13	2:B:199:ILE:HG22	1.99	0.44
2:B:1442:ILE:HA	2:B:1443:LEU:HD12	1.99	0.44
2:B:262:PHE:HE1	2:B:282:ARG:CG	2.28	0.44
1:A:875:HIS:HB3	2:B:901:GLN:NE2	2.32	0.44
1:C:1088:GLN:C	1:C:1090:ASN:N	2.71	0.44
1:C:1346:LEU:HA	1:C:1346:LEU:HD12	1.45	0.44
1:C:1366:HIS:N	1:C:1366:HIS:ND1	2.66	0.44
1:C:1381:ILE:HD13	1:C:1509:TYR:CG	2.53	0.44
1:C:1559:TYR:CE1	1:C:1586:LYS:O	2.70	0.44
1:C:1618:LEU:HD22	1:C:1619:ILE:N	2.33	0.44
1:C:571:LEU:CD2	1:C:812:ALA:HB2	2.47	0.44
1:C:577:PRO:CD	1:C:588:VAL:HG23	2.48	0.44
1:C:695:VAL:HG12	1:C:727:ALA:CB	2.47	0.44
1:C:753:HIS:HB3	1:C:754:MET:H	1.43	0.44
1:C:916:THR:C	1:C:918:PHE:N	2.71	0.44
2:D:1442:ILE:HA	2:D:1443:LEU:HD12	2.00	0.44
2:D:226:VAL:CG2	2:D:320:VAL:HG11	2.47	0.44
2:D:32:VAL:HB	2:D:607:PHE:CZ	2.53	0.44
2:D:756:LEU:HD22	2:D:778:PHE:CD1	2.52	0.44
1:A:1274:LEU:O	1:A:1277:GLU:N	2.49	0.44
1:A:1455:ILE:HG22	1:A:1455:ILE:O	2.16	0.44
1:A:207:GLU:O	1:A:209:PHE:N	2.50	0.44
1:A:255:PHE:HD1	1:A:255:PHE:O	2.00	0.44
1:A:565:GLU:CD	1:A:565:GLU:H	2.20	0.44
1:A:591:ASN:C	1:A:592:MET:HG3	2.38	0.44
1:A:623:VAL:O	1:A:625:GLN:N	2.51	0.44
1:A:930:VAL:HG13	1:A:931:PRO:N	2.33	0.44
1:A:970:LYS:C	1:A:971:THR:CG2	2.86	0.44
2:B:1484:ILE:HG22	2:B:1485:CYS:N	2.31	0.44
2:B:1527:LYS:H	2:B:1545:LEU:HD13	1.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:597:LYS:HB3	2:B:597:LYS:NZ	2.33	0.44
2:B:775:THR:HG22	2:B:776:MET:N	2.32	0.44
1:C:1086:LEU:CD1	1:C:1095:GLN:HG3	2.37	0.44
1:C:1113:LEU:HD23	1:C:1114:ASP:N	2.31	0.44
1:C:1179:THR:HG22	1:C:1180:LEU:HD23	2.00	0.44
1:C:1562:LYS:C	1:C:1563:VAL:CG1	2.85	0.44
1:C:1638:PRO:HB2	1:C:1639:LEU:H	1.48	0.44
1:C:196:TYR:CD2	1:C:196:TYR:N	2.82	0.44
1:C:371:ILE:O	1:C:371:ILE:CG2	2.66	0.44
1:C:412:ARG:HG3	1:C:413:VAL:N	2.32	0.44
1:C:534:MET:HG3	1:C:534:MET:H	1.56	0.44
1:C:961:TYR:HE1	1:C:963:ILE:HG12	1.82	0.44
2:D:1501:ASN:H	2:D:1501:ASN:ND2	2.12	0.44
2:D:319:THR:HG23	2:D:330:VAL:CG1	2.47	0.44
2:D:567:LEU:HD11	2:D:577:LEU:HD21	1.99	0.44
1:A:1019:PHE:CE1	1:A:1088:GLN:HB3	2.53	0.44
1:A:1366:HIS:ND1	1:A:1366:HIS:N	2.65	0.44
1:A:532:GLN:O	1:A:535:VAL:HG13	2.17	0.44
1:A:961:TYR:HE2	1:A:1343:ASN:HA	1.82	0.44
2:B:126:SER:OG	2:B:127:PHE:N	2.49	0.44
2:B:355:LYS:O	2:B:358:MET:HB2	2.17	0.44
2:B:347:PHE:CE1	2:B:430:MET:HG2	2.53	0.44
1:C:1099:SER:O	1:C:1100:ILE:C	2.53	0.44
1:C:234:GLU:HG3	1:C:235:TYR:CE2	2.52	0.44
1:C:255:PHE:HD1	1:C:255:PHE:O	2.00	0.44
1:C:412:ARG:HH12	1:C:472:ASN:HD21	1.64	0.44
1:C:443:PRO:CD	1:C:446:ASN:HB2	2.38	0.44
1:C:518:PHE:O	1:C:520:ASP:N	2.43	0.44
2:D:1623:LYS:HZ3	2:D:1623:LYS:CA	2.30	0.44
2:D:235:PHE:HB3	2:D:338:ILE:CG2	2.46	0.44
2:D:299:PHE:CE1	2:D:303:PHE:HD2	2.27	0.44
2:D:460:LEU:O	2:D:460:LEU:HD23	2.17	0.44
1:A:1494:THR:CB	1:A:1506:THR:HG23	2.24	0.44
1:A:1566:THR:O	1:A:1613:LYS:HE3	2.18	0.44
1:A:286:ALA:O	1:A:287:MET:O	2.35	0.44
1:A:323:LEU:O	1:A:323:LEU:HD13	2.18	0.44
1:A:352:TYR:HE1	1:A:383:VAL:HG21	1.81	0.44
1:A:431:LEU:O	1:A:431:LEU:HD13	2.17	0.44
1:A:466:TYR:CZ	1:A:468:ASP:HB2	2.53	0.44
1:A:631:ASP:C	1:A:633:GLY:H	2.21	0.44
1:A:97:ASN:HA	1:A:98:PRO:HD3	1.83	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1526:THR:CG2	2:B:1583:ILE:HG13	2.47	0.44
2:B:266:GLY:HA3	2:B:315:TYR:CE1	2.53	0.44
2:B:447:VAL:O	2:B:447:VAL:HG13	2.16	0.44
2:B:61:PHE:CE2	2:B:62:PRO:HB3	2.52	0.44
2:B:913:LEU:HD23	2:B:914:LYS:N	2.33	0.44
1:C:1085:VAL:O	1:C:1089:VAL:CG2	2.63	0.44
1:C:1117:SER:HB3	1:C:1174:PHE:CD2	2.51	0.44
1:C:1379:LEU:HD12	1:C:1505:CYS:SG	2.58	0.44
1:C:1455:ILE:O	1:C:1455:ILE:HG22	2.18	0.44
1:C:1482:LEU:O	1:C:1482:LEU:HD23	2.17	0.44
1:C:1562:LYS:NZ	1:C:1664:LEU:HD23	2.32	0.44
1:C:392:ALA:HB1	1:C:432:GLU:O	2.18	0.44
1:C:180:ILE:HB	1:C:599:TRP:CZ3	2.52	0.44
1:C:690:TYR:C	1:C:692:HIS:H	2.19	0.44
2:D:113:VAL:HG12	2:D:114:ARG:N	2.33	0.44
2:D:1594:LYS:HE2	2:D:1594:LYS:HA	1.99	0.44
2:D:469:ASN:CG	2:D:472:SER:HB2	2.36	0.44
2:D:353:TYR:HB2	2:D:613:SER:HG	1.79	0.44
2:D:133:ASP:HB3	2:D:757:TRP:CZ3	2.53	0.44
2:D:951:ASP:C	2:D:953:ARG:N	2.68	0.44
1:A:1106:TRP:CE3	1:A:1107:LEU:HD13	2.52	0.44
1:A:1079:THR:HG21	1:A:1107:LEU:CD1	2.47	0.44
1:A:1309:LEU:HA	1:A:1309:LEU:HD22	1.77	0.44
1:A:1364:VAL:HG22	1:A:1365:VAL:N	2.32	0.44
1:A:171:VAL:CG1	1:A:172:ASP:N	2.81	0.44
1:A:695:VAL:HG12	1:A:727:ALA:CB	2.47	0.44
1:A:256:TYR:HE2	1:A:826:GLU:OE2	2.00	0.44
1:A:867:THR:O	1:A:868:SER:HB3	2.18	0.44
2:B:58:VAL:HG12	2:B:104:VAL:CG2	2.48	0.44
2:B:138:THR:HB	2:B:141:SER:OG	2.18	0.44
2:B:1466:GLU:HG3	2:B:1468:CYS:H	1.83	0.44
2:B:319:THR:HG23	2:B:330:VAL:CG1	2.48	0.44
2:B:364:VAL:O	2:B:395:THR:HA	2.18	0.44
2:B:134:LYS:HB2	2:B:584:VAL:HG11	2.00	0.44
2:B:951:ASP:C	2:B:953:ARG:N	2.68	0.44
1:C:1066:TYR:O	1:C:1074:ALA:HB1	2.17	0.44
1:C:123:ASN:HB3	1:C:209:PHE:CD2	2.53	0.44
1:C:1386:ILE:HG13	1:C:1387:GLU:N	2.28	0.44
1:C:148:LEU:HA	1:C:148:LEU:HD12	1.79	0.44
1:C:969:PRO:HD3	1:C:1603:LYS:HZ1	1.82	0.44
1:C:820:PHE:CZ	1:C:822:ASP:HB2	2.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:33:VAL:HA	1:C:87:ILE:HG12	2.00	0.44
2:D:1602:THR:C	2:D:1604:ASN:N	2.70	0.44
2:D:306:LEU:HD12	2:D:306:LEU:HA	1.82	0.44
2:D:345:ILE:HD11	2:D:427:THR:N	2.32	0.44
2:D:476:ILE:CG1	2:D:524:TYR:CD2	3.01	0.44
1:A:1053:MET:HE3	1:A:1086:LEU:HD13	1.99	0.44
1:A:1084:ARG:HB2	1:A:1151:GLY:HA2	1.99	0.44
1:A:1406:ALA:O	1:A:1472:PHE:HA	2.18	0.44
1:A:1475:VAL:HG22	1:A:1476:ARG:N	2.32	0.44
1:A:1562:LYS:HD3	1:A:1664:LEU:CD2	2.46	0.44
1:A:1622:LYS:HD2	1:A:1642:LEU:HB2	1.98	0.44
1:A:27:ALA:HB2	1:A:39:ILE:HG12	1.99	0.44
1:A:373:VAL:CG2	1:A:418:ALA:HB3	2.47	0.44
1:A:475:ALA:O	1:A:476:LEU:HB2	2.17	0.44
1:A:515:ARG:HG3	1:A:526:ILE:HG23	2.00	0.44
1:A:640:LEU:N	1:A:644:ASN:HB3	2.30	0.44
1:A:87:ILE:HG12	1:A:87:ILE:O	2.18	0.44
2:B:1279:ILE:O	2:B:1287:PRO:HB2	2.18	0.44
2:B:1275:LEU:HA	2:B:1317:GLY:HA3	1.99	0.44
2:B:1391:LEU:HD12	2:B:1417:MET:HE1	2.00	0.44
2:B:1610:TRP:CD1	2:B:1628:PHE:HD2	2.36	0.44
1:C:117:MET:HB2	1:C:118:PRO:HD2	1.99	0.44
1:C:1257:THR:O	1:C:1261:LEU:HG	2.18	0.44
1:C:1013:MET:CE	1:C:1287:THR:HB	2.47	0.44
1:C:269:PHE:O	1:C:282:MET:HG2	2.17	0.44
1:C:914:LEU:HD12	1:C:915:GLU:N	2.32	0.44
2:D:1279:ILE:O	2:D:1287:PRO:HB2	2.18	0.44
2:D:924:ILE:HD13	2:D:1329:TYR:HE2	1.83	0.44
2:D:1466:GLU:HG3	2:D:1468:CYS:H	1.83	0.44
2:D:415:THR:O	2:D:425:GLN:HB3	2.18	0.44
2:D:347:PHE:CE1	2:D:430:MET:HG2	2.53	0.44
2:D:625:GLY:O	2:D:626:LEU:HG	2.17	0.44
2:D:856:PHE:CG	2:D:884:ILE:HD11	2.53	0.44
1:A:110:HIS:ND1	1:A:110:HIS:N	2.65	0.44
1:A:1151:GLY:O	1:A:1152:ILE:C	2.53	0.44
1:A:1183:GLN:NE2	1:A:1183:GLN:O	2.50	0.44
1:A:1247:MET:O	1:A:1248:VAL:C	2.56	0.44
1:A:1285:TYR:O	1:A:1286:SER:O	2.36	0.44
1:A:1559:TYR:CE1	1:A:1586:LYS:O	2.70	0.44
1:A:324:TYR:C	1:A:324:TYR:CD2	2.91	0.44
1:A:476:LEU:HD12	1:A:562:ASN:O	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:530:VAL:HA	1:A:534:MET:SD	2.58	0.44
1:A:96:GLN:HG3	1:A:97:ASN:N	2.33	0.44
2:B:228:LEU:HD12	2:B:333:GLN:HB2	1.99	0.44
2:B:309:LEU:O	2:B:310:VAL:C	2.57	0.44
2:B:349:LYS:HE2	2:B:365:TYR:CD1	2.53	0.44
1:C:1013:MET:HE3	1:C:1287:THR:O	2.18	0.44
1:C:1056:ILE:O	1:C:1056:ILE:HD13	2.17	0.44
1:C:1066:TYR:HD1	1:C:1066:TYR:N	2.15	0.44
1:C:1079:THR:HG22	1:C:1107:LEU:HD21	2.00	0.44
1:C:164:ILE:HG22	1:C:164:ILE:O	2.16	0.44
1:C:412:ARG:HG3	1:C:413:VAL:H	1.82	0.44
1:C:476:LEU:HD12	1:C:562:ASN:O	2.17	0.44
1:C:96:GLN:HG3	1:C:97:ASN:H	1.81	0.44
2:D:1427:LEU:HD23	2:D:1430:VAL:HG23	1.99	0.44
2:D:1480:LEU:HD12	2:D:1480:LEU:C	2.39	0.44
2:D:1599:TYR:CD1	2:D:1599:TYR:N	2.86	0.44
2:D:263:VAL:HG13	2:D:318:VAL:HA	1.99	0.44
1:A:1562:LYS:NZ	1:A:1664:LEU:HD23	2.32	0.43
1:A:1552:ALA:HB2	1:A:1620:MET:CE	2.48	0.43
1:A:1648:TRP:HE1	1:A:1664:LEU:CD2	2.31	0.43
1:A:284:GLN:O	1:A:285:THR:CB	2.66	0.43
1:A:720:LEU:HB2	1:A:721:GLY:H	1.72	0.43
2:B:1286:VAL:O	2:B:1286:VAL:HG12	2.18	0.43
2:B:1383:ASP:HB3	2:B:1457:LYS:HB2	2.00	0.43
2:B:354:PHE:C	2:B:354:PHE:CD1	2.91	0.43
2:B:387:MET:O	2:B:398:LEU:HD21	2.18	0.43
2:B:581:ASP:OD2	2:B:785:THR:HG21	2.17	0.43
1:C:423:ASN:HB3	2:D:501:GLN:NE2	2.33	0.43
1:C:504:LEU:N	1:C:504:LEU:CD1	2.80	0.43
1:C:695:VAL:HG13	1:C:724:CYS:HA	2.00	0.43
2:D:1438:LEU:N	2:D:1438:LEU:HD13	2.32	0.43
2:D:1482:ASN:HB3	2:D:1493:ALA:CB	2.47	0.43
2:D:1512:ILE:HG23	2:D:1631:PHE:CD1	2.53	0.43
2:D:226:VAL:HG22	2:D:249:ALA:HB2	1.99	0.43
2:D:470:ALA:C	2:D:472:SER:H	2.20	0.43
2:D:558:MET:HB3	2:D:558:MET:HE2	1.70	0.43
2:D:580:VAL:HG12	2:D:581:ASP:N	2.32	0.43
2:D:902:GLU:HG3	2:D:902:GLU:O	2.18	0.43
2:D:916:VAL:CG2	2:D:917:PRO:CD	2.95	0.43
1:A:1118:PHE:CD2	1:A:1148:THR:OG1	2.67	0.43
1:A:1142:LEU:O	1:A:1143:TYR:O	2.36	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1224:ILE:HG22	1:A:1225:TYR:HD2	1.83	0.43
1:A:1267:VAL:O	1:A:1270:VAL:HB	2.17	0.43
1:A:127:PHE:CD1	1:A:127:PHE:N	2.84	0.43
1:A:154:PRO:HB2	1:A:155:ALA:H	1.57	0.43
1:A:1602:LYS:HB3	1:A:1639:LEU:CB	2.48	0.43
1:A:1546:GLU:HG2	1:A:1663:ASN:OD1	2.18	0.43
1:A:578:ASP:O	1:A:579:ALA:O	2.35	0.43
1:A:642:ASN:ND2	1:A:646:PHE:CD1	2.86	0.43
1:A:862:VAL:HB	1:A:865:ILE:CG1	2.47	0.43
1:A:917:TRP:O	2:B:813:VAL:HG22	2.18	0.43
2:B:1296:ASN:HB2	2:B:1299:LEU:HD22	2.00	0.43
2:B:1384:ILE:HB	2:B:1423:VAL:HG12	1.99	0.43
2:B:1520:VAL:CG1	2:B:1584:TRP:HD1	2.29	0.43
2:B:171:ILE:H	2:B:171:ILE:HG13	1.60	0.43
2:B:229:GLN:HA	2:B:230:PRO:HD3	1.81	0.43
2:B:237:ILE:HD11	2:B:309:LEU:HB2	2.00	0.43
2:B:382:GLU:C	2:B:384:PHE:N	2.72	0.43
2:B:410:PRO:CA	2:B:431:THR:HG22	2.44	0.43
2:B:857:CYS:HB3	2:B:885:VAL:CG2	2.48	0.43
1:C:1158:ILE:O	1:C:1158:ILE:HG22	2.17	0.43
1:C:1279:ARG:CD	1:C:1279:ARG:C	2.87	0.43
1:C:1439:LEU:O	1:C:1440:LYS:C	2.57	0.43
1:C:439:ALA:O	1:C:441:ASP:N	2.47	0.43
1:C:494:ASP:OD1	1:C:494:ASP:C	2.57	0.43
1:C:612:VAL:O	1:C:612:VAL:HG12	2.17	0.43
1:C:702:GLY:HA3	1:C:728:PHE:CD1	2.53	0.43
1:C:916:THR:C	1:C:918:PHE:H	2.20	0.43
2:D:1562:GLN:CB	2:D:1598:SER:HB3	2.48	0.43
2:D:462:VAL:CG1	2:D:506:MET:HE2	2.48	0.43
2:D:221:LEU:HD11	2:D:753:LYS:CD	2.48	0.43
2:D:789:VAL:HG23	2:D:806:TYR:O	2.18	0.43
1:A:1127:ILE:HD13	1:A:1129:LEU:HD21	2.00	0.43
1:A:1146:ALA:O	1:A:1147:PHE:C	2.57	0.43
1:A:1320:LYS:HG2	1:A:1342:LEU:HD12	1.99	0.43
1:A:1549:LYS:H	1:A:1549:LYS:HG2	1.49	0.43
1:A:1562:LYS:C	1:A:1563:VAL:CG1	2.86	0.43
1:A:1549:LYS:NZ	1:A:1667:PHE:CD1	2.84	0.43
1:A:223:VAL:O	1:A:225:PRO:HD3	2.18	0.43
1:A:415:ASP:CB	1:A:417:VAL:HB	2.48	0.43
1:A:701:ASP:O	1:A:704:CYS:HB2	2.18	0.43
1:A:847:ASN:HD21	1:A:853:MET:HB2	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:984:VAL:O	1:A:987:ILE:HB	2.18	0.43
2:B:1482:ASN:C	2:B:1493:ALA:HB3	2.38	0.43
2:B:198:ARG:HB3	2:B:213:TYR:HE1	1.82	0.43
2:B:446:HIS:O	2:B:465:ASN:HB2	2.18	0.43
2:B:567:LEU:HD11	2:B:577:LEU:HD21	1.99	0.43
2:B:856:PHE:CG	2:B:884:ILE:HD11	2.54	0.43
1:C:1231:ASN:O	1:C:1234:HIS:O	2.37	0.43
1:C:1213:LYS:CG	1:C:1266:TYR:HE2	2.29	0.43
1:C:1016:VAL:CG1	1:C:1291:ILE:HG13	2.45	0.43
1:C:1311:MET:HB2	1:C:1311:MET:HE3	1.85	0.43
1:C:1378:TYR:O	1:C:1406:ALA:HA	2.17	0.43
1:C:1562:LYS:HD3	1:C:1664:LEU:CD2	2.47	0.43
1:C:322:TYR:HA	1:C:346:LYS:HA	2.00	0.43
1:C:439:ALA:HA	1:C:440:PRO:HD3	1.79	0.43
1:C:506:LYS:CE	1:C:533:ASN:O	2.65	0.43
2:D:1284:ARG:HG3	2:D:1286:VAL:N	2.24	0.43
2:D:145:TYR:HE2	2:D:165:PHE:CE1	2.35	0.43
2:D:1527:LYS:O	2:D:1529:LEU:HD12	2.18	0.43
2:D:1601:ILE:N	2:D:1601:ILE:CD1	2.81	0.43
2:D:1609:ARG:CG	2:D:1609:ARG:NH1	2.61	0.43
2:D:229:GLN:HA	2:D:230:PRO:HD3	1.83	0.43
2:D:261:ALA:HB3	2:D:285:ILE:HD11	1.99	0.43
2:D:466:VAL:CG1	2:D:524:TYR:HE2	2.31	0.43
2:D:820:MET:HE2	2:D:832:ILE:HD13	1.99	0.43
1:A:1033:ILE:HG22	1:A:1034:PHE:HD1	1.81	0.43
1:A:165:ASP:C	1:A:167:GLU:H	2.20	0.43
1:A:234:GLU:HG3	1:A:235:TYR:CE2	2.54	0.43
1:A:269:PHE:CE1	1:A:287:MET:HB3	2.46	0.43
1:A:424:LEU:N	1:A:424:LEU:HD23	2.32	0.43
1:A:444:GLU:O	1:A:445:GLU:C	2.57	0.43
1:A:989:SER:O	1:A:993:SER:CB	2.64	0.43
2:B:238:ASP:OD1	2:B:238:ASP:O	2.36	0.43
2:B:352:LYS:O	2:B:432:ALA:HB1	2.19	0.43
2:B:148:PHE:CZ	2:B:792:VAL:HG11	2.53	0.43
2:B:919:GLY:CA	2:B:1331:ALA:O	2.66	0.43
1:C:1279:ARG:O	1:C:1280:TYR:C	2.57	0.43
1:C:1358:THR:HB	1:C:1360:HIS:CE1	2.54	0.43
1:C:1500:ARG:C	1:C:1502:ASP:N	2.72	0.43
1:C:467:ILE:HG22	1:C:486:VAL:CG2	2.38	0.43
1:C:476:LEU:HD23	1:C:476:LEU:HA	1.81	0.43
1:C:610:TYR:N	1:C:610:TYR:CD1	2.86	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:949:ILE:O	1:C:949:ILE:CG2	2.67	0.43
2:D:1599:TYR:HD1	2:D:1599:TYR:N	2.16	0.43
2:D:266:GLY:HA3	2:D:315:TYR:CE1	2.54	0.43
2:D:511:THR:H	2:D:514:LEU:HD11	1.83	0.43
2:D:574:ARG:HH21	2:D:759:THR:HG21	1.83	0.43
2:D:735:ASN:OD1	2:D:735:ASN:N	2.52	0.43
2:D:825:VAL:HA	2:D:916:VAL:O	2.19	0.43
1:A:1068:VAL:CG2	1:A:1124:TYR:CD1	2.95	0.43
1:A:1257:THR:O	1:A:1261:LEU:HG	2.18	0.43
1:A:165:ASP:O	1:A:167:GLU:N	2.48	0.43
1:A:371:ILE:HG21	1:A:390:LEU:CD2	2.49	0.43
1:A:565:GLU:HG2	1:A:565:GLU:O	2.18	0.43
1:A:571:LEU:HG	1:A:812:ALA:HB2	2.00	0.43
1:A:565:GLU:HG3	1:A:624:PHE:CG	2.53	0.43
1:A:705:VAL:HA	1:A:739:ARG:HH12	1.83	0.43
1:A:969:PRO:HD3	1:A:1603:LYS:HZ1	1.83	0.43
1:A:970:LYS:O	1:A:971:THR:HG22	2.19	0.43
2:B:464:PHE:HB3	2:B:479:PHE:CE2	2.54	0.43
2:B:80:GLY:O	2:B:81:MET:HB2	2.17	0.43
1:C:1233:GLN:O	1:C:1234:HIS:HB3	2.18	0.43
1:C:1377:PHE:CD1	1:C:1408:TYR:HA	2.53	0.43
1:C:1562:LYS:HD2	1:C:1648:TRP:CZ2	2.48	0.43
1:C:1601:ILE:O	1:C:1638:PRO:O	2.36	0.43
1:C:1660:PHE:HE2	1:C:1664:LEU:CD1	2.26	0.43
1:C:1546:GLU:HG2	1:C:1663:ASN:OD1	2.18	0.43
1:C:190:ILE:CG2	1:C:194:PRO:HG3	2.48	0.43
1:C:520:ASP:HB2	2:D:404:LEU:HD13	2.01	0.43
1:C:561:LEU:HA	1:C:561:LEU:HD23	1.80	0.43
1:C:955:ARG:HG2	1:C:1350:THR:O	2.18	0.43
2:D:436:GLN:O	2:D:437:THR:C	2.56	0.43
1:A:1202:HIS:CG	1:A:1203:PRO:HD2	2.53	0.43
1:A:1264:ILE:HG13	1:A:1264:ILE:H	1.39	0.43
1:A:443:PRO:CD	1:A:446:ASN:HB2	2.41	0.43
2:B:103:TYR:HD2	2:B:103:TYR:N	2.17	0.43
2:B:1502:HIS:O	2:B:1503:GLN:HB2	2.18	0.43
2:B:1548:ILE:CG2	2:B:1635:LEU:HB3	2.48	0.43
2:B:230:PRO:HG3	2:B:333:GLN:HG2	2.01	0.43
2:B:621:PHE:H	2:B:621:PHE:HD2	1.66	0.43
2:B:735:ASN:N	2:B:735:ASN:OD1	2.51	0.43
1:C:1243:GLY:O	1:C:1285:TYR:CZ	2.71	0.43
1:C:1644:TRP:CD1	1:C:1646:GLU:OE1	2.71	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:369:TYR:HA	1:C:370:PRO:HD3	1.88	0.43
1:C:532:GLN:O	1:C:535:VAL:HG13	2.18	0.43
1:C:500:ASN:ND2	1:C:543:TYR:CE1	2.86	0.43
1:C:583:SER:O	1:C:586:GLN:HB3	2.18	0.43
1:C:631:ASP:C	1:C:633:GLY:H	2.22	0.43
1:C:696:LYS:HZ1	1:C:759:PRO:HG2	1.84	0.43
2:D:946:LYS:HA	2:D:1310:ASP:OD1	2.18	0.43
2:D:1512:ILE:HG22	2:D:1631:PHE:CE1	2.53	0.43
2:D:939:GLY:O	2:D:1316:SER:HA	2.18	0.43
1:A:1243:GLY:O	1:A:1285:TYR:CE2	2.72	0.43
1:A:1013:MET:HE3	1:A:1287:THR:O	2.19	0.43
1:A:1381:ILE:HB	1:A:1493:PHE:CE2	2.54	0.43
1:A:1622:LYS:HB2	1:A:1643:THR:HG22	1.99	0.43
1:A:1656:SER:O	1:A:1659:ALA:HB3	2.19	0.43
1:A:651:LEU:HD23	1:A:651:LEU:HA	1.74	0.43
1:A:809:ILE:HG12	1:A:810:CYS:H	1.82	0.43
2:B:129:PHE:CE2	2:B:598:ILE:HD13	2.53	0.43
2:B:1402:LYS:HA	2:B:1402:LYS:HD3	1.53	0.43
2:B:820:MET:HA	2:B:821:PRO:HD3	1.79	0.43
1:C:1589:GLU:HB2	1:C:1590:ALA:H	1.46	0.43
1:C:486:VAL:HG11	1:C:499:TYR:CE1	2.54	0.43
1:C:567:CYS:HB3	1:C:570:GLN:HB3	2.01	0.43
1:C:824:PHE:CD2	1:C:824:PHE:N	2.85	0.43
1:C:827:MET:HB3	1:C:829:ILE:CD1	2.47	0.43
1:C:970:LYS:C	1:C:971:THR:CG2	2.87	0.43
2:D:1330:ASN:N	2:D:1330:ASN:HD22	2.16	0.43
2:D:866:TYR:OH	2:D:1388:THR:CG2	2.67	0.43
2:D:373:PRO:HB3	2:D:393:ASP:O	2.19	0.43
2:D:387:MET:O	2:D:398:LEU:HD21	2.18	0.43
2:D:859:ALA:O	2:D:866:TYR:HB2	2.19	0.43
1:A:1013:MET:O	1:A:1017:PRO:HD3	2.18	0.43
1:A:1212:LEU:O	1:A:1215:GLU:HB2	2.18	0.43
1:A:1637:TYR:HA	1:A:1638:PRO:HD3	1.86	0.43
1:A:163:PHE:CE1	1:A:188:PHE:CD1	3.06	0.43
1:A:342:ILE:HA	1:A:343:PRO:HD3	1.74	0.43
1:A:367:ILE:O	1:A:368:PRO:C	2.57	0.43
1:A:494:ASP:C	1:A:494:ASP:OD1	2.57	0.43
1:A:884:VAL:CG1	1:A:886:GLN:CG	2.90	0.43
2:B:1387:LEU:O	2:B:1390:PHE:HB2	2.18	0.43
2:B:1390:PHE:CD1	2:B:1442:ILE:HG13	2.54	0.43
2:B:445:LEU:HD12	2:B:465:ASN:O	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:885:VAL:HG23	2:B:887:LEU:CD2	2.48	0.43
1:C:1067:SER:HA	1:C:1074:ALA:HA	2.01	0.43
1:C:1120:GLU:OE2	1:C:1121:ASN:N	2.52	0.43
1:C:1127:ILE:HG13	1:C:1143:TYR:CE2	2.44	0.43
1:C:1142:LEU:O	1:C:1143:TYR:O	2.37	0.43
1:C:1159:CYS:O	1:C:1161:LEU:N	2.42	0.43
1:C:1168:LEU:HD23	1:C:1168:LEU:N	2.32	0.43
1:C:27:ALA:HB2	1:C:39:ILE:HG12	2.01	0.43
1:C:226:HIS:ND1	1:C:336:PHE:CE2	2.86	0.43
1:C:383:VAL:O	1:C:383:VAL:HG22	2.18	0.43
1:C:354:LEU:HD23	1:C:450:GLU:HG3	2.01	0.43
1:C:599:TRP:HE1	1:C:779:LEU:CB	2.32	0.43
1:C:867:THR:O	1:C:868:SER:HB3	2.19	0.43
2:D:1296:ASN:HB2	2:D:1299:LEU:HD22	2.01	0.43
2:D:963:ILE:CD1	2:D:1311:ILE:HG12	2.49	0.43
2:D:261:ALA:N	2:D:285:ILE:CD1	2.82	0.43
2:D:338:ILE:C	2:D:339:VAL:CG1	2.87	0.43
2:D:829:GLN:CA	2:D:829:GLN:HE21	2.31	0.43
1:A:1148:THR:O	1:A:1149:VAL:C	2.57	0.43
1:A:128:ILE:HD11	1:A:214:THR:CA	2.49	0.43
1:A:1650:ARG:N	1:A:1650:ARG:HD2	2.27	0.43
1:A:222:TYR:HE1	1:A:768:TYR:CB	2.13	0.43
1:A:624:PHE:CD1	1:A:625:GLN:N	2.85	0.43
2:B:946:LYS:HA	2:B:1310:ASP:OD1	2.18	0.43
2:B:1391:LEU:HD12	2:B:1417:MET:CE	2.49	0.43
2:B:1556:PRO:C	2:B:1558:ALA:N	2.72	0.43
2:B:145:TYR:HE2	2:B:165:PHE:CE1	2.37	0.43
2:B:378:PRO:HG3	2:B:389:THR:HG23	2.00	0.43
2:B:485:ASN:O	2:B:486:LYS:HB2	2.18	0.43
2:B:511:THR:O	2:B:513:ASP:N	2.52	0.43
2:B:32:VAL:HB	2:B:607:PHE:CZ	2.54	0.43
2:B:646:GLN:O	2:B:647:PRO:C	2.57	0.43
2:B:755:TRP:O	2:B:756:LEU:CB	2.66	0.43
2:B:847:ARG:CZ	2:B:867:ARG:NH1	2.82	0.43
2:B:745:ILE:HG22	2:B:897:LYS:HD3	1.97	0.43
2:B:902:GLU:O	2:B:903:ALA:HB2	2.19	0.43
1:C:1022:PHE:O	1:C:1023:HIS:C	2.57	0.43
1:C:1132:THR:HG22	1:C:1133:LEU:N	2.31	0.43
1:C:156:LYS:C	1:C:156:LYS:CD	2.87	0.43
1:C:223:VAL:O	1:C:225:PRO:HD3	2.19	0.43
1:C:552:ALA:O	1:C:658:ASN:ND2	2.52	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:593:ALA:O	1:C:594:THR:HG23	2.17	0.43
1:C:756:THR:O	1:C:757:LEU:HD23	2.19	0.43
1:C:804:ILE:O	1:C:804:ILE:HG13	2.19	0.43
1:C:971:THR:O	1:C:972:GLU:C	2.57	0.43
2:D:1326:LEU:HD11	2:D:1328:PHE:HE2	1.84	0.43
2:D:276:ILE:O	2:D:277:PRO:C	2.57	0.43
1:C:421:VAL:HG23	2:D:507:ASN:ND2	2.33	0.43
2:D:578:VAL:HG13	2:D:578:VAL:O	2.18	0.43
2:D:923:SER:O	2:D:924:ILE:HD12	2.18	0.43
2:D:946:LYS:N	2:D:946:LYS:HD3	2.34	0.43
1:A:101:TYR:N	1:A:101:TYR:CD2	2.87	0.43
1:A:1162:VAL:HG11	1:C:1064:TYR:HE2	1.83	0.43
1:A:1153:ARG:NH2	1:A:1168:LEU:HD13	2.34	0.43
1:A:1638:PRO:O	1:A:1639:LEU:HB2	2.19	0.43
1:A:1638:PRO:HB2	1:A:1639:LEU:H	1.48	0.43
1:A:354:LEU:HA	1:A:374:GLN:O	2.19	0.43
1:A:412:ARG:HG3	1:A:413:VAL:N	2.34	0.43
1:A:495:LYS:HA	1:A:495:LYS:HD3	1.59	0.43
1:A:504:LEU:HD12	1:A:509:ILE:CA	2.48	0.43
2:B:355:LYS:HA	2:B:356:PRO:HD3	1.91	0.43
2:B:466:VAL:CG1	2:B:524:TYR:HE2	2.32	0.43
2:B:756:LEU:HD22	2:B:778:PHE:CD1	2.53	0.43
2:B:788:VAL:HG22	2:B:807:GLU:HG2	2.01	0.43
1:C:101:TYR:N	1:C:101:TYR:CD2	2.87	0.43
1:C:1155:ALA:O	1:C:1158:ILE:HG13	2.19	0.43
1:C:1298:THR:O	1:C:1301:SER:N	2.52	0.43
1:C:1365:VAL:CG2	1:C:1366:HIS:N	2.75	0.43
1:C:1455:ILE:CD1	1:C:1455:ILE:N	2.82	0.43
1:C:1664:LEU:HD23	1:C:1664:LEU:O	2.19	0.43
1:C:25:ILE:HD13	1:C:41:ILE:CG1	2.49	0.43
1:C:553:GLU:HA	1:C:553:GLU:OE1	2.19	0.43
1:C:74:SER:HA	1:C:79:PHE:HE1	1.84	0.43
1:C:773:TRP:CZ3	1:C:788:PHE:CE1	2.92	0.43
2:D:1525:LYS:HD2	2:D:1610:TRP:CZ2	2.53	0.43
2:D:202:LYS:CG	2:D:203:TYR:N	2.82	0.43
2:D:262:PHE:HE1	2:D:282:ARG:CG	2.29	0.43
2:D:646:GLN:HB3	2:D:647:PRO:CD	2.37	0.43
2:D:74:ASP:OD1	2:D:74:ASP:N	2.52	0.43
2:D:96:THR:HB	2:D:123:TYR:OH	2.18	0.43
1:A:196:TYR:CD2	1:A:196:TYR:N	2.85	0.42
1:A:27:ALA:HB1	1:A:28:PRO:HD2	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:412:ARG:HG3	1:A:413:VAL:H	1.84	0.42
1:A:587:THR:CG2	1:A:789:ALA:HB2	2.49	0.42
1:A:33:VAL:HA	1:A:87:ILE:CG1	2.49	0.42
1:A:916:THR:O	1:A:918:PHE:N	2.52	0.42
2:B:1466:GLU:OE2	2:B:1468:CYS:HB2	2.19	0.42
2:B:1505:ARG:NH1	2:B:1627:ASP:OD1	2.51	0.42
2:B:1562:GLN:HB2	2:B:1598:SER:HB3	2.00	0.42
2:B:531:ILE:O	2:B:617:ASN:ND2	2.51	0.42
2:B:748:ARG:NH1	2:B:784:ILE:HG12	2.33	0.42
1:C:1007:SER:HA	1:C:1069:TRP:HD1	1.83	0.42
1:C:1213:LYS:HE2	1:C:1266:TYR:CE2	2.54	0.42
1:C:1648:TRP:HE1	1:C:1664:LEU:CD2	2.32	0.42
1:C:348:VAL:HG12	1:C:350:SER:H	1.84	0.42
1:C:473:HIS:HE1	2:D:455:LYS:HZ3	1.67	0.42
1:C:49:ALA:HB2	1:C:74:SER:HB2	2.01	0.42
1:C:503:ILE:HD11	1:C:528:ILE:HG21	2.01	0.42
1:C:554:LEU:HD23	1:C:554:LEU:HA	1.60	0.42
2:D:952:ASP:O	2:D:1331:ALA:HB1	2.19	0.42
2:D:449:ILE:HD13	2:D:462:VAL:CG2	2.45	0.42
2:D:567:LEU:HD23	2:D:567:LEU:HA	1.55	0.42
2:D:580:VAL:CG1	2:D:581:ASP:N	2.81	0.42
2:D:824:VAL:HG22	2:D:825:VAL:N	2.34	0.42
1:A:1022:PHE:O	1:A:1025:LEU:N	2.52	0.42
1:A:1060:ARG:CG	1:A:1061:ASN:N	2.82	0.42
1:A:1090:ASN:C	1:A:1092:TYR:N	2.72	0.42
1:A:1226:ARG:HD3	1:A:1266:TYR:CE1	2.54	0.42
1:A:1279:ARG:O	1:A:1280:TYR:C	2.56	0.42
1:A:1413:GLU:OE2	1:A:1413:GLU:HA	2.19	0.42
1:A:153:LYS:O	1:A:154:PRO:O	2.37	0.42
1:A:171:VAL:HG22	1:A:1057:MET:CE	2.49	0.42
1:A:847:ASN:ND2	1:A:853:MET:HB2	2.34	0.42
2:B:350:THR:HA	2:B:351:PRO:HD3	1.88	0.42
2:B:511:THR:OG1	2:B:512:PRO:HD2	2.18	0.42
2:B:946:LYS:N	2:B:946:LYS:HD3	2.34	0.42
1:C:110:HIS:N	1:C:110:HIS:ND1	2.66	0.42
1:C:1143:TYR:O	1:C:1144:LEU:C	2.56	0.42
1:C:1118:PHE:HE2	1:C:1148:THR:HG1	1.57	0.42
1:C:1255:LEU:C	1:C:1255:LEU:HD12	2.40	0.42
1:C:1324:HIS:CG	1:C:1336:ARG:NH2	2.87	0.42
1:C:1467:ILE:HA	1:C:1468:PRO:HD3	1.78	0.42
1:C:1570:VAL:HG22	1:C:1575:VAL:HG13	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:363:LEU:HD12	1:C:456:ALA:HA	2.00	0.42
1:C:620:LEU:HG	1:C:620:LEU:H	1.60	0.42
1:C:784:LYS:HG2	1:C:785:GLN:N	2.33	0.42
1:C:862:VAL:HG12	1:C:907:LEU:HD21	2.01	0.42
1:C:961:TYR:HE2	1:C:1343:ASN:HA	1.83	0.42
2:D:129:PHE:CE2	2:D:598:ILE:HD13	2.54	0.42
2:D:919:GLY:CA	2:D:1331:ALA:O	2.67	0.42
2:D:275:SER:C	2:D:277:PRO:HD3	2.39	0.42
2:D:358:MET:HE3	2:D:358:MET:HB2	1.95	0.42
2:D:553:ASP:O	2:D:555:LEU:HG	2.19	0.42
2:D:811:MET:HG3	2:D:812:LYS:N	2.34	0.42
2:D:942:LEU:HD13	2:D:1314:THR:HG23	2.01	0.42
2:D:943:GLU:HB2	2:D:1313:VAL:HG23	2.01	0.42
1:A:1086:LEU:O	1:A:1087:GLY:C	2.57	0.42
1:A:1094:GLU:H	1:A:1094:GLU:CD	2.22	0.42
1:A:1179:THR:HG22	1:A:1180:LEU:HD23	2.01	0.42
1:A:1189:ALA:O	1:A:1192:ALA:HB3	2.19	0.42
1:A:1226:ARG:HD2	1:A:1270:VAL:CG2	2.50	0.42
1:A:1370:THR:O	1:A:1371:SER:C	2.56	0.42
1:A:847:ASN:ND2	1:A:853:MET:CB	2.83	0.42
1:A:914:LEU:HD12	1:A:915:GLU:N	2.34	0.42
1:A:832:SER:HA	1:A:928:ARG:HB3	2.02	0.42
2:B:111:PRO:O	2:B:113:VAL:HG23	2.19	0.42
2:B:113:VAL:HG12	2:B:114:ARG:N	2.34	0.42
2:B:1273:LEU:HB2	2:B:1319:GLY:CA	2.36	0.42
2:B:1506:ILE:HD11	2:B:1628:PHE:CE1	2.54	0.42
2:B:1548:ILE:HD12	2:B:1636:THR:OG1	2.18	0.42
2:B:336:ILE:HD13	2:B:336:ILE:HA	1.78	0.42
2:B:358:MET:HB2	2:B:358:MET:HE3	1.99	0.42
2:B:775:THR:HG22	2:B:776:MET:H	1.84	0.42
2:B:218:LYS:CD	2:B:822:TYR:HE2	2.31	0.42
1:C:1068:VAL:CG2	1:C:1124:TYR:CD1	2.94	0.42
1:C:1020:TYR:HE1	1:C:1295:GLU:HG3	1.84	0.42
1:C:1381:ILE:CG1	1:C:1382:ASP:N	2.81	0.42
1:C:144:ARG:HD2	1:C:146:TYR:CZ	2.54	0.42
1:C:1641:SER:C	1:C:1643:THR:N	2.73	0.42
1:C:1658:GLN:HA	1:C:1661:LEU:HB2	2.01	0.42
1:C:499:TYR:HE2	1:C:517:LYS:HG3	1.84	0.42
1:C:534:MET:HB3	1:C:538:SER:OG	2.19	0.42
1:C:584:PRO:CB	1:C:792:ASP:HA	2.37	0.42
1:C:827:MET:HB3	1:C:829:ILE:HD13	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:870:SER:N	1:C:871:PRO:HD3	2.33	0.42
2:D:1305:THR:HG23	2:D:1307:LEU:N	2.30	0.42
2:D:138:THR:HG22	2:D:139:PRO:O	2.18	0.42
2:D:477:LYS:HD3	2:D:477:LYS:H	1.84	0.42
2:D:64:LYS:HG3	2:D:64:LYS:O	2.20	0.42
2:D:69:PHE:HE2	2:D:71:THR:HB	1.84	0.42
2:D:788:VAL:HG22	2:D:807:GLU:HG2	2.01	0.42
1:A:1013:MET:HA	1:A:1016:VAL:HG23	2.00	0.42
1:A:1027:THR:HG21	1:A:1302:LEU:HD13	2.02	0.42
1:A:54:ILE:CG1	1:A:106:VAL:HG13	2.49	0.42
1:A:1664:LEU:O	1:A:1664:LEU:HD23	2.19	0.42
1:A:774:LEU:HD12	1:A:799:ILE:HD11	2.02	0.42
2:B:1305:THR:HG23	2:B:1306:LYS:N	2.34	0.42
2:B:1525:LYS:HD2	2:B:1610:TRP:CZ2	2.54	0.42
2:B:449:ILE:HD13	2:B:462:VAL:CG2	2.46	0.42
2:B:491:LYS:HB3	2:B:491:LYS:HE2	1.71	0.42
2:B:830:VAL:HG23	2:B:831:GLU:N	2.34	0.42
2:B:933:ARG:HH11	2:B:933:ARG:HG3	1.84	0.42
1:C:1088:GLN:C	1:C:1090:ASN:H	2.22	0.42
1:C:1280:TYR:O	1:C:1280:TYR:CG	2.72	0.42
1:C:1027:THR:HG21	1:C:1302:LEU:HD13	2.01	0.42
1:C:1307:LEU:HD22	1:C:1307:LEU:N	2.33	0.42
1:C:1439:LEU:HD23	1:C:1439:LEU:HA	1.61	0.42
1:C:1545:ALA:HB2	1:C:1660:PHE:CE1	2.54	0.42
1:C:1585:TYR:CE1	1:C:1671:ILE:HG12	2.51	0.42
1:C:27:ALA:HB1	1:C:28:PRO:CD	2.50	0.42
1:C:395:ILE:CG1	1:C:430:VAL:HB	2.50	0.42
1:C:424:LEU:HD23	1:C:424:LEU:N	2.34	0.42
1:C:774:LEU:HG	1:C:788:PHE:HE1	1.84	0.42
1:C:780:VAL:HA	1:C:781:PRO:HD3	1.85	0.42
2:D:102:GLN:C	2:D:103:TYR:HD2	2.22	0.42
2:D:1370:ARG:HG2	2:D:1371:TYR:O	2.19	0.42
2:D:415:THR:O	2:D:415:THR:OG1	2.34	0.42
2:D:829:GLN:HG2	2:D:1480:LEU:HD13	2.01	0.42
1:A:1091:LYS:H	1:A:1091:LYS:HG3	1.39	0.42
1:A:1016:VAL:CG2	1:A:1291:ILE:HD12	2.49	0.42
1:A:532:GLN:O	1:A:535:VAL:HG22	2.20	0.42
1:A:610:TYR:CD1	1:A:610:TYR:N	2.86	0.42
2:B:1292:ILE:HD11	2:B:1301:ARG:NE	2.32	0.42
2:B:1506:ILE:CD1	2:B:1628:PHE:CD1	3.03	0.42
2:B:1525:LYS:HD2	2:B:1610:TRP:CZ3	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:354:PHE:O	2:B:434:ALA:HA	2.19	0.42
2:B:558:MET:HE2	2:B:558:MET:HB3	1.64	0.42
2:B:567:LEU:HD23	2:B:567:LEU:HA	1.52	0.42
2:B:780:LEU:HD22	2:B:780:LEU:HA	1.83	0.42
1:C:1083:LEU:CD1	1:C:1104:LEU:HD23	2.49	0.42
1:C:1101:CYS:O	1:C:1105:LEU:HD12	2.20	0.42
1:C:1183:GLN:NE2	1:C:1183:GLN:O	2.53	0.42
1:C:196:TYR:H	1:C:196:TYR:HD2	1.64	0.42
1:C:444:GLU:O	1:C:445:GLU:C	2.57	0.42
1:C:256:TYR:HE2	1:C:826:GLU:OE2	2.02	0.42
1:C:85:LEU:N	1:C:85:LEU:CD2	2.79	0.42
2:D:108:VAL:O	2:D:114:ARG:HA	2.18	0.42
2:D:1385:SER:OG	2:D:1455:SER:N	2.47	0.42
2:D:1606:TRP:O	2:D:1606:TRP:HD1	2.03	0.42
2:D:1635:LEU:O	2:D:1637:GLU:N	2.52	0.42
2:D:485:ASN:O	2:D:486:LYS:HB2	2.18	0.42
2:D:524:TYR:HE1	2:D:532:VAL:CG1	2.29	0.42
2:D:859:ALA:HB1	2:D:866:TYR:CD1	2.55	0.42
1:A:1581:LEU:HD11	1:A:1598:ILE:HD11	1.99	0.42
1:A:185:PHE:CB	1:A:186:PRO:HD2	2.49	0.42
1:A:438:ASP:HA	1:A:447:GLN:NE2	2.35	0.42
1:A:501:TYR:HD1	1:A:501:TYR:C	2.21	0.42
1:A:626:PHE:O	1:A:628:GLU:N	2.52	0.42
1:A:689:LYS:O	1:A:691:LYS:N	2.52	0.42
2:B:232:GLU:C	2:B:234:PHE:H	2.22	0.42
2:B:490:PHE:C	2:B:490:PHE:CD1	2.91	0.42
1:C:1037:ASP:O	1:C:1040:ILE:HB	2.19	0.42
1:C:1618:LEU:C	1:C:1618:LEU:HD22	2.40	0.42
1:C:487:THR:HA	1:C:488:PRO:HD3	1.81	0.42
1:C:516:GLU:N	1:C:516:GLU:CD	2.70	0.42
1:C:715:ALA:O	1:C:718:ILE:HG13	2.20	0.42
1:C:829:ILE:HA	1:C:830:PRO:HD3	1.84	0.42
1:C:839:ILE:CD1	1:C:1485:VAL:HG12	2.50	0.42
1:C:946:PRO:HB2	1:C:947:ARG:H	1.52	0.42
2:D:1367:ILE:HD13	2:D:1456:VAL:CG2	2.49	0.42
2:D:1540:TYR:CE1	2:D:1575:LEU:HB2	2.54	0.42
2:D:263:VAL:HG23	2:D:283:ILE:CD1	2.48	0.42
1:C:849:ARG:NH2	2:D:556:ILE:O	2.52	0.42
1:A:1025:LEU:HD23	1:A:1025:LEU:HA	1.72	0.42
1:A:1208:ILE:HG22	1:A:1208:ILE:O	2.19	0.42
1:A:1255:LEU:C	1:A:1255:LEU:HD12	2.39	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1311:MET:HE3	1:A:1311:MET:HB2	1.88	0.42
1:A:1504:GLN:HG3	1:A:1505:CYS:N	2.35	0.42
1:A:1602:LYS:HB3	1:A:1639:LEU:HB2	2.02	0.42
1:A:1652:THR:HB	1:A:1653:THR:H	1.73	0.42
2:B:219:TYR:CD1	2:B:220:VAL:N	2.86	0.42
2:B:229:GLN:OE1	2:B:229:GLN:HA	2.19	0.42
2:B:29:THR:CB	2:B:30:PRO:CD	2.97	0.42
2:B:263:VAL:CG1	2:B:318:VAL:HG23	2.50	0.42
2:B:236:TYR:CZ	2:B:424:ARG:HD2	2.54	0.42
2:B:480:THR:OG1	2:B:494:ARG:NE	2.51	0.42
1:C:1364:VAL:HG22	1:C:1365:VAL:N	2.35	0.42
1:C:1549:LYS:H	1:C:1549:LYS:HG2	1.51	0.42
1:C:1658:GLN:N	1:C:1658:GLN:HE21	2.17	0.42
1:C:1549:LYS:NZ	1:C:1667:PHE:CD1	2.85	0.42
1:C:269:PHE:CE1	1:C:287:MET:HB3	2.47	0.42
1:C:365:PRO:CD	1:C:464:TYR:CE2	3.03	0.42
1:C:864:GLY:HA3	1:C:907:LEU:HD22	2.01	0.42
2:D:1438:LEU:HD22	2:D:1438:LEU:C	2.39	0.42
2:D:524:TYR:HD1	2:D:524:TYR:O	2.03	0.42
2:D:848:VAL:HG12	2:D:848:VAL:O	2.18	0.42
2:D:916:VAL:HG23	2:D:917:PRO:CD	2.48	0.42
1:A:162:THR:HG21	1:A:204:LYS:CE	2.40	0.42
1:A:386:VAL:HA	1:A:387:PRO:HD3	1.89	0.42
1:A:391:ASN:HD21	1:A:406:PRO:HG3	1.84	0.42
1:A:25:ILE:HD13	1:A:41:ILE:HG13	2.01	0.42
1:A:517:LYS:HG2	1:A:518:PHE:H	1.85	0.42
1:A:544:TYR:HE2	1:A:546:VAL:CG2	2.33	0.42
1:A:549:GLU:CD	1:A:549:GLU:N	2.57	0.42
1:A:594:THR:OG1	1:A:782:ARG:CA	2.67	0.42
1:A:786:LEU:N	1:A:786:LEU:HD23	2.30	0.42
2:B:1323:MET:HE3	2:B:1325:ILE:HD11	2.02	0.42
2:B:1623:LYS:HD2	2:B:1623:LYS:N	2.31	0.42
2:B:350:THR:CG2	2:B:350:THR:O	2.68	0.42
2:B:398:LEU:HA	2:B:398:LEU:HD23	1.68	0.42
2:B:438:GLN:HB2	2:B:617:ASN:HD21	1.83	0.42
2:B:476:ILE:HD11	2:B:524:TYR:CB	2.49	0.42
2:B:69:PHE:HE2	2:B:71:THR:HB	1.85	0.42
2:B:742:ASP:OD1	2:B:743:SER:N	2.53	0.42
2:B:847:ARG:HG3	2:B:869:GLN:CG	2.50	0.42
2:B:954:VAL:O	2:B:957:THR:HG23	2.20	0.42
1:C:1043:GLN:O	1:C:1044:LYS:C	2.58	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1103:SER:O	1:C:1106:TRP:N	2.50	0.42
1:C:1148:THR:O	1:C:1149:VAL:C	2.56	0.42
1:C:31:PHE:O	1:C:119:ILE:HA	2.19	0.42
1:C:1381:ILE:HB	1:C:1493:PHE:CE2	2.55	0.42
1:C:1587:THR:HB	1:C:1591:VAL:HG13	2.01	0.42
1:C:639:GLY:H	1:C:645:VAL:HA	1.84	0.42
1:C:571:LEU:HD22	1:C:803:GLY:HA3	2.02	0.42
2:D:1286:VAL:O	2:D:1286:VAL:HG12	2.20	0.42
2:D:1371:TYR:HB2	2:D:1377:SER:HB3	2.02	0.42
2:D:164:GLU:HB2	2:D:200:VAL:CG2	2.50	0.42
2:D:146:ARG:HA	2:D:183:PHE:CE2	2.54	0.42
2:D:264:LEU:HB2	2:D:280:LEU:HB2	2.02	0.42
2:D:354:PHE:O	2:D:434:ALA:HA	2.19	0.42
2:D:819:GLN:NE2	2:D:819:GLN:CA	2.82	0.42
1:A:1243:GLY:O	1:A:1285:TYR:CZ	2.73	0.42
1:A:1587:THR:HB	1:A:1591:VAL:CG2	2.48	0.42
1:A:1545:ALA:HB2	1:A:1660:PHE:CE1	2.55	0.42
1:A:831:TYR:O	1:A:928:ARG:CB	2.67	0.42
1:A:870:SER:N	1:A:871:PRO:HD3	2.33	0.42
2:B:102:GLN:C	2:B:103:TYR:HD2	2.23	0.42
2:B:1349:VAL:CG2	2:B:1363:LEU:HD12	2.50	0.42
2:B:1397:LEU:HA	2:B:1397:LEU:HD12	1.75	0.42
2:B:370:ASP:N	2:B:370:ASP:OD1	2.52	0.42
2:B:818:LEU:HD23	2:B:911:LYS:CD	2.44	0.42
2:B:963:ILE:O	2:B:963:ILE:HG22	2.20	0.42
1:C:1020:TYR:O	1:C:1021:VAL:C	2.59	0.42
1:C:1060:ARG:CG	1:C:1061:ASN:N	2.83	0.42
1:C:1091:LYS:HG3	1:C:1091:LYS:H	1.43	0.42
1:C:1212:LEU:O	1:C:1215:GLU:HB2	2.20	0.42
1:C:1279:ARG:CZ	1:C:1280:TYR:CD2	3.03	0.42
1:C:1545:ALA:CB	1:C:1660:PHE:CE1	3.03	0.42
1:C:1636:ILE:O	1:C:1636:ILE:CG2	2.68	0.42
1:C:20:GLU:O	1:C:20:GLU:CG	2.61	0.42
1:C:565:GLU:HG2	1:C:565:GLU:O	2.20	0.42
1:C:621:GLU:HG3	1:C:621:GLU:H	1.74	0.42
1:C:949:ILE:C	1:C:950:TYR:CG	2.93	0.42
2:D:1294:TYR:O	2:D:1294:TYR:HD2	2.02	0.42
2:D:1378:THR:O	2:D:1379:MET:C	2.58	0.42
2:D:1424:ILE:CD1	2:D:1424:ILE:N	2.76	0.42
2:D:1602:THR:H	2:D:1605:THR:HB	1.85	0.42
2:D:296:ARG:NH1	2:D:296:ARG:CG	2.83	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:435:TYR:OH	2:D:617:ASN:HB3	2.20	0.42
2:D:646:GLN:O	2:D:647:PRO:C	2.59	0.42
2:D:739:PHE:CE1	2:D:901:GLN:HB2	2.55	0.42
2:D:830:VAL:HG23	2:D:831:GLU:N	2.34	0.42
2:D:860:SER:OG	2:D:866:TYR:HB3	2.20	0.42
2:D:857:CYS:HB3	2:D:885:VAL:HG22	2.01	0.42
1:A:1212:LEU:HD13	1:A:1228:TRP:NE1	2.35	0.42
1:A:144:ARG:HD2	1:A:146:TYR:CZ	2.55	0.42
1:A:21:GLN:HB3	1:A:44:TYR:O	2.20	0.42
1:A:289:ASN:N	1:A:289:ASN:OD1	2.52	0.42
1:A:296:ILE:CG2	1:A:297:ALA:N	2.82	0.42
1:A:371:ILE:CG2	1:A:371:ILE:O	2.67	0.42
1:A:472:ASN:O	1:A:473:HIS:CB	2.67	0.42
1:A:663:GLN:O	1:A:664:GLU:HB2	2.20	0.42
1:A:721:GLY:C	1:A:723:ARG:N	2.73	0.42
1:A:780:VAL:HA	1:A:781:PRO:HD3	1.85	0.42
1:A:827:MET:HB3	1:A:829:ILE:HD13	2.01	0.42
2:B:1385:SER:OG	2:B:1455:SER:N	2.46	0.42
2:B:825:VAL:O	2:B:826:LYS:C	2.58	0.42
2:B:829:GLN:HE21	2:B:829:GLN:C	2.23	0.42
1:C:1153:ARG:NH2	1:C:1168:LEU:HD13	2.35	0.42
1:C:1016:VAL:HG11	1:C:1291:ILE:CD1	2.50	0.42
1:C:654:LEU:HA	1:C:654:LEU:HD23	1.58	0.42
1:C:96:GLN:HG3	1:C:97:ASN:N	2.35	0.42
2:D:1275:LEU:HD13	2:D:1321:ALA:HB2	2.02	0.42
2:D:1606:TRP:C	2:D:1606:TRP:HD1	2.22	0.42
2:D:171:ILE:HG13	2:D:171:ILE:H	1.59	0.42
2:D:76:ASN:CB	2:D:77:PRO:HD2	2.44	0.42
1:A:1061:ASN:HB2	1:A:1065:SER:O	2.20	0.41
1:A:1641:SER:O	1:A:1643:THR:HG23	2.20	0.41
1:A:222:TYR:CD2	1:A:222:TYR:C	2.94	0.41
1:A:354:LEU:N	1:A:354:LEU:CD2	2.83	0.41
1:A:654:LEU:C	1:A:655:THR:HG23	2.40	0.41
1:A:773:TRP:CZ3	1:A:774:LEU:HB2	2.55	0.41
1:A:606:ASP:HB2	1:A:797:TRP:HZ3	1.85	0.41
1:A:901:LEU:HA	1:A:902:PRO:HD3	1.78	0.41
2:B:138:THR:HG22	2:B:139:PRO:O	2.20	0.41
2:B:1457:LYS:HG2	2:B:1469:THR:HG1	1.83	0.41
2:B:343:TYR:HE1	2:B:420:LEU:HD11	1.84	0.41
2:B:415:THR:OG1	2:B:415:THR:O	2.35	0.41
2:B:352:LYS:HG3	2:B:430:MET:HE1	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:438:GLN:O	2:B:439:GLY:C	2.58	0.41
2:B:748:ARG:NH1	2:B:784:ILE:HG23	2.35	0.41
2:B:811:MET:HG3	2:B:812:LYS:N	2.34	0.41
2:B:36:ASP:OD1	2:B:90:PRO:HA	2.19	0.41
1:C:1133:LEU:N	1:C:1133:LEU:HD12	2.32	0.41
1:C:1313:ILE:HD13	1:C:1350:THR:HB	2.01	0.41
1:C:135:TYR:CE1	1:C:141:VAL:HG13	2.51	0.41
1:C:1435:ASN:O	1:C:1436:GLU:C	2.58	0.41
1:C:163:PHE:HE1	1:C:188:PHE:HB2	1.85	0.41
1:C:387:PRO:HG2	1:C:438:ASP:O	2.20	0.41
1:C:501:TYR:CD1	1:C:501:TYR:C	2.93	0.41
1:C:504:LEU:HD13	1:C:504:LEU:N	2.35	0.41
1:C:700:TYR:CZ	1:C:757:LEU:HD22	2.55	0.41
1:C:754:MET:HE1	1:C:756:THR:HA	2.02	0.41
1:C:594:THR:OG1	1:C:782:ARG:CA	2.68	0.41
1:C:829:ILE:HD12	1:C:829:ILE:N	2.34	0.41
2:D:1301:ARG:CB	2:D:1301:ARG:HH11	2.32	0.41
2:D:1380:THR:HG23	2:D:1460:SER:HA	2.01	0.41
2:D:265:PHE:O	2:D:276:ILE:HG13	2.19	0.41
2:D:756:LEU:CD2	2:D:778:PHE:CE1	3.03	0.41
1:A:1003:LEU:HA	1:A:1004:PRO:HD2	1.64	0.41
1:A:1060:ARG:CG	1:A:1061:ASN:H	2.33	0.41
1:A:1271:ILE:O	1:A:1272:LYS:C	2.57	0.41
1:A:1439:LEU:HA	1:A:1439:LEU:HD23	1.58	0.41
1:A:1500:ARG:C	1:A:1502:ASP:N	2.73	0.41
1:A:1545:ALA:CB	1:A:1660:PHE:CE1	3.03	0.41
1:A:1584:ILE:O	1:A:1585:TYR:CB	2.68	0.41
1:A:1641:SER:O	1:A:1642:LEU:HB2	2.20	0.41
1:A:240:TYR:CD2	1:A:240:TYR:C	2.89	0.41
1:A:518:PHE:HD2	1:A:524:GLN:NE2	2.17	0.41
1:A:621:GLU:HG3	1:A:621:GLU:H	1.73	0.41
1:A:683:ILE:O	1:A:687:ALA:HB3	2.20	0.41
1:A:804:ILE:O	1:A:804:ILE:HG13	2.21	0.41
1:A:824:PHE:N	1:A:824:PHE:CD2	2.82	0.41
1:A:971:THR:O	1:A:972:GLU:C	2.58	0.41
2:B:1412:GLU:HB2	2:B:1419:GLN:HB2	2.01	0.41
2:B:1445:HIS:CG	2:B:1446:PHE:H	2.37	0.41
2:B:1498:SER:O	2:B:1573:LEU:CD2	2.68	0.41
2:B:264:LEU:HB2	2:B:280:LEU:HB2	2.01	0.41
2:B:27:LEU:HD11	2:B:29:THR:HG22	2.03	0.41
2:B:267:VAL:HG13	2:B:313:THR:O	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:127:PHE:N	1:C:127:PHE:CD1	2.87	0.41
1:C:1320:LYS:CG	1:C:1321:GLY:H	2.34	0.41
1:C:1329:THR:OG1	1:C:1331:LYS:HG2	2.21	0.41
1:C:269:PHE:HB2	1:C:283:MET:CE	2.50	0.41
1:C:405:ASP:OD1	1:C:405:ASP:N	2.52	0.41
1:C:565:GLU:H	1:C:565:GLU:CD	2.22	0.41
1:C:591:ASN:C	1:C:592:MET:HG3	2.40	0.41
1:C:791:PRO:CD	1:C:797:TRP:HE1	2.32	0.41
2:D:1466:GLU:CD	2:D:1468:CYS:HB2	2.41	0.41
2:D:214:PHE:C	2:D:214:PHE:HD1	2.22	0.41
1:A:1158:ILE:O	1:A:1158:ILE:HG22	2.19	0.41
1:A:1336:ARG:HA	1:A:1337:PRO:HD3	1.95	0.41
1:A:222:TYR:HH	1:A:224:LEU:HD23	1.83	0.41
1:A:700:TYR:CZ	1:A:757:LEU:HD22	2.55	0.41
1:A:701:ASP:OD1	1:A:701:ASP:N	2.51	0.41
2:B:1408:ILE:HD11	2:B:1425:ILE:CG1	2.44	0.41
1:C:1053:MET:HE1	1:C:1085:VAL:CG1	2.50	0.41
1:C:1081:PHE:HD1	1:C:1147:PHE:HZ	1.68	0.41
1:C:1226:ARG:HD2	1:C:1270:VAL:CG2	2.51	0.41
1:C:977:LEU:CD2	1:C:1361:VAL:HG13	2.50	0.41
1:C:24:VAL:HG11	1:C:543:TYR:HE2	1.83	0.41
1:C:423:ASN:OD1	2:D:504:VAL:HG22	2.19	0.41
1:C:545:ILE:HG12	1:C:545:ILE:H	1.65	0.41
1:C:984:VAL:O	1:C:987:ILE:HB	2.19	0.41
2:D:1275:LEU:HD21	2:D:1319:GLY:C	2.39	0.41
2:D:1407:TYR:CD2	2:D:1407:TYR:C	2.92	0.41
2:D:219:TYR:CD1	2:D:220:VAL:N	2.86	0.41
2:D:41:ILE:O	2:D:85:PRO:HD2	2.20	0.41
2:D:454:ILE:HD12	2:D:538:VAL:HG11	2.02	0.41
2:D:818:LEU:HD23	2:D:911:LYS:CD	2.47	0.41
2:D:923:SER:C	2:D:924:ILE:HD12	2.41	0.41
1:A:1019:PHE:CZ	1:A:1088:GLN:HB3	2.56	0.41
1:A:124:GLY:C	1:A:125:PHE:CG	2.93	0.41
1:A:1013:MET:HE2	1:A:1287:THR:HB	2.02	0.41
1:A:330:ILE:HG13	1:A:330:ILE:O	2.20	0.41
1:A:40:VAL:HA	1:A:82:SER:HB3	2.02	0.41
1:A:931:PRO:HG2	1:A:1366:HIS:NE2	2.36	0.41
1:A:987:ILE:HG22	1:A:988:LEU:N	2.34	0.41
2:B:1275:LEU:HD13	2:B:1321:ALA:HB2	2.02	0.41
2:B:1277:ILE:HG22	2:B:1290:TYR:HB2	2.02	0.41
2:B:148:PHE:CZ	2:B:792:VAL:CG1	3.04	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:412:ARG:CD	2:B:458:ASP:OD1	2.66	0.41
1:C:1020:TYR:CZ	1:C:1295:GLU:HB2	2.55	0.41
1:C:1364:VAL:HG13	1:C:1364:VAL:O	2.19	0.41
1:C:1381:ILE:HD12	1:C:1493:PHE:HD2	1.85	0.41
1:C:1587:THR:HB	1:C:1591:VAL:CG2	2.50	0.41
1:C:404:LEU:HA	1:C:404:LEU:HD22	1.85	0.41
1:C:915:GLU:HB3	2:D:905:TRP:CZ2	2.55	0.41
2:D:1610:TRP:CG	2:D:1628:PHE:CD2	3.07	0.41
2:D:302:ARG:HG3	2:D:303:PHE:CE1	2.56	0.41
2:D:339:VAL:HG23	2:D:340:ALA:N	2.35	0.41
2:D:438:GLN:HB2	2:D:617:ASN:HD21	1.84	0.41
1:A:1525:CYS:N	1:A:1528:VAL:HG13	2.36	0.41
1:A:1660:PHE:HE2	1:A:1664:LEU:CD1	2.28	0.41
1:A:431:LEU:HD22	1:A:432:GLU:N	2.35	0.41
1:A:36:SER:HA	1:A:86:THR:HG22	2.02	0.41
1:A:979:VAL:HG21	1:A:1326:TYR:CZ	2.49	0.41
2:B:939:GLY:O	2:B:1316:SER:HA	2.21	0.41
2:B:133:ASP:OD2	2:B:134:LYS:HG2	2.19	0.41
2:B:330:VAL:HG23	2:B:330:VAL:O	2.20	0.41
2:B:339:VAL:HG23	2:B:340:ALA:N	2.35	0.41
2:B:762:LEU:N	2:B:762:LEU:CD1	2.82	0.41
2:B:41:ILE:O	2:B:85:PRO:HD2	2.20	0.41
1:C:1025:LEU:HD23	1:C:1025:LEU:HA	1.75	0.41
1:C:1208:ILE:HG22	1:C:1208:ILE:O	2.21	0.41
1:C:24:VAL:HG11	1:C:543:TYR:CZ	2.56	0.41
1:C:288:GLN:O	1:C:289:ASN:C	2.57	0.41
1:C:654:LEU:C	1:C:655:THR:HG23	2.40	0.41
1:C:74:SER:HA	1:C:79:PHE:CE1	2.56	0.41
1:C:960:PRO:HB2	1:C:961:TYR:H	1.62	0.41
1:C:961:TYR:CE1	1:C:963:ILE:HG12	2.55	0.41
2:D:1282:PRO:HD2	2:D:1309:GLN:CD	2.40	0.41
2:D:1349:VAL:CG2	2:D:1363:LEU:HD12	2.50	0.41
2:D:1528:LEU:HD12	2:D:1541:VAL:O	2.20	0.41
2:D:1556:PRO:C	2:D:1558:ALA:N	2.73	0.41
2:D:511:THR:OG1	2:D:512:PRO:HD2	2.20	0.41
2:D:885:VAL:HA	2:D:886:PRO:HD3	1.75	0.41
2:D:902:GLU:O	2:D:903:ALA:HB2	2.20	0.41
1:A:1026:GLU:OE1	1:A:1031:TRP:NE1	2.53	0.41
1:A:1328:MET:HE2	1:A:1328:MET:HB2	1.88	0.41
1:A:1455:ILE:N	1:A:1455:ILE:CD1	2.84	0.41
1:A:24:VAL:CG1	1:A:24:VAL:O	2.69	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:558:SER:HB3	1:A:645:VAL:HG13	2.03	0.41
1:A:59:TYR:N	1:A:60:PRO:CD	2.84	0.41
1:A:775:TRP:CD1	1:A:775:TRP:O	2.74	0.41
1:A:829:ILE:HG12	1:A:925:LYS:CG	2.45	0.41
2:B:1606:TRP:O	2:B:1606:TRP:CD1	2.74	0.41
1:A:470:THR:CG2	2:B:450:THR:HG22	2.40	0.41
2:B:789:VAL:C	2:B:790:LEU:HD12	2.41	0.41
1:C:1180:LEU:HD21	1:C:1208:ILE:HG12	2.01	0.41
1:C:1226:ARG:HD2	1:C:1270:VAL:HG23	2.02	0.41
1:C:938:SER:OG	1:C:1284:PHE:CZ	2.74	0.41
1:C:1560:ALA:HA	1:C:1620:MET:HA	2.03	0.41
1:C:1616:GLN:CD	1:C:1648:TRP:CZ3	2.94	0.41
1:C:163:PHE:HE1	1:C:188:PHE:CB	2.33	0.41
1:C:342:ILE:HA	1:C:343:PRO:HD3	1.73	0.41
1:C:361:LEU:CD1	1:C:361:LEU:N	2.83	0.41
1:C:501:TYR:CE1	1:C:512:PHE:C	2.94	0.41
2:D:104:VAL:CG2	2:D:105:VAL:H	2.30	0.41
2:D:1277:ILE:HG12	2:D:1278:THR:N	2.36	0.41
2:D:1445:HIS:CG	2:D:1446:PHE:H	2.38	0.41
2:D:1512:ILE:CG2	2:D:1631:PHE:CD1	3.03	0.41
2:D:466:VAL:CG1	2:D:524:TYR:CE2	3.04	0.41
1:A:1133:LEU:HD12	1:A:1133:LEU:N	2.34	0.41
1:A:1161:LEU:N	1:A:1161:LEU:HD22	2.35	0.41
1:A:1212:LEU:CD1	1:A:1228:TRP:NE1	2.83	0.41
1:A:354:LEU:H	1:A:354:LEU:HD23	1.85	0.41
1:A:484:ILE:HG21	1:A:528:ILE:HD11	2.03	0.41
1:A:626:PHE:C	1:A:628:GLU:H	2.23	0.41
1:A:81:ASN:CG	1:A:82:SER:N	2.72	0.41
2:B:1277:ILE:HG12	2:B:1278:THR:N	2.35	0.41
2:B:1444:LYS:CE	2:B:1447:GLU:HA	2.45	0.41
2:B:1522:TYR:HB2	2:B:1524:TYR:CE1	2.55	0.41
2:B:1581:TYR:HA	2:B:1608:GLU:O	2.20	0.41
2:B:756:LEU:CD2	2:B:778:PHE:CE1	3.03	0.41
2:B:857:CYS:O	2:B:885:VAL:HG22	2.20	0.41
2:B:923:SER:O	2:B:924:ILE:HD12	2.20	0.41
1:A:1162:VAL:HG11	1:C:1064:TYR:CE2	2.56	0.41
1:C:1090:ASN:C	1:C:1092:TYR:N	2.71	0.41
1:C:1566:THR:O	1:C:1613:LYS:HE3	2.20	0.41
1:C:78:LYS:HD2	1:C:498:HIS:NE2	2.35	0.41
1:C:97:ASN:HA	1:C:98:PRO:HD3	1.84	0.41
2:D:25:TYR:CZ	2:D:113:VAL:HG22	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:285:ILE:O	2:D:286:ILE:HD13	2.20	0.41
2:D:323:GLU:C	2:D:323:GLU:OE1	2.59	0.41
2:D:338:ILE:C	2:D:339:VAL:HG13	2.41	0.41
2:D:34:ARG:HH11	2:D:34:ARG:HG2	1.85	0.41
2:D:512:PRO:HA	2:D:515:ILE:HD12	2.03	0.41
2:D:593:ILE:HG12	2:D:593:ILE:O	2.10	0.41
2:D:621:PHE:CD2	2:D:621:PHE:N	2.86	0.41
2:D:56:ILE:HG12	2:D:71:THR:O	2.20	0.41
1:A:108:SER:HG	1:A:111:PHE:C	2.24	0.41
1:A:1313:ILE:HA	1:A:1313:ILE:HD13	1.67	0.41
1:A:1346:LEU:HD12	1:A:1346:LEU:HA	1.46	0.41
1:A:1428:LEU:HD11	1:A:1434:ALA:HB2	2.03	0.41
1:A:1537:GLU:O	1:A:1539:LEU:N	2.54	0.41
1:A:1574:PHE:HA	1:A:1603:LYS:HD2	2.02	0.41
1:A:1667:PHE:CD2	1:A:1667:PHE:N	2.88	0.41
1:A:179:HIS:C	1:A:180:ILE:HG12	2.40	0.41
1:A:690:TYR:CG	1:A:690:TYR:O	2.73	0.41
1:A:77:ASN:C	1:A:79:PHE:N	2.73	0.41
1:A:571:LEU:HD22	1:A:803:GLY:HA3	2.03	0.41
1:A:888:VAL:O	1:A:888:VAL:HG13	2.20	0.41
1:A:899:THR:C	1:A:900:VAL:HG13	2.41	0.41
1:A:91:GLN:CA	1:A:91:GLN:OE1	2.58	0.41
2:B:952:ASP:O	2:B:1331:ALA:HB1	2.21	0.41
2:B:1623:LYS:HD2	2:B:1623:LYS:HA	1.66	0.41
2:B:143:VAL:HG23	2:B:188:LEU:HD11	2.01	0.41
2:B:306:LEU:HA	2:B:306:LEU:HD12	1.83	0.41
2:B:386:SER:O	2:B:398:LEU:HD11	2.21	0.41
2:B:470:ALA:C	2:B:472:SER:H	2.23	0.41
2:B:557:GLN:HA	2:B:557:GLN:OE1	2.19	0.41
2:B:783:SER:HB2	2:B:787:TRP:CZ2	2.55	0.41
1:A:917:TRP:O	2:B:813:VAL:CG2	2.69	0.41
2:B:819:GLN:CA	2:B:819:GLN:NE2	2.84	0.41
2:B:891:LEU:HB2	2:B:912:LYS:CE	2.51	0.41
2:B:952:ASP:O	2:B:1331:ALA:CA	2.68	0.41
1:C:1013:MET:HA	1:C:1016:VAL:HG23	2.02	0.41
1:C:1022:PHE:O	1:C:1025:LEU:N	2.54	0.41
1:C:1108:VAL:HG21	1:C:1167:ALA:HB2	2.02	0.41
1:C:1133:LEU:H	1:C:1133:LEU:CD1	2.31	0.41
1:C:1232:LEU:HD12	1:C:1233:GLN:H	1.86	0.41
1:C:42:GLN:OE1	1:C:500:ASN:ND2	2.53	0.41
2:D:1393:ASP:CB	2:D:1443:LEU:HD11	2.44	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:229:GLN:HA	2:D:229:GLN:OE1	2.20	0.41
2:D:247:ILE:HD11	2:D:318:VAL:CG2	2.48	0.41
2:D:383:ALA:C	2:D:384:PHE:CD2	2.94	0.41
2:D:438:GLN:O	2:D:439:GLY:C	2.59	0.41
2:D:839:TYR:HD1	2:D:839:TYR:HA	1.65	0.41
2:D:952:ASP:O	2:D:1331:ALA:CA	2.69	0.41
1:A:101:TYR:O	1:A:102:VAL:HG23	2.21	0.41
1:A:1108:VAL:H	1:A:1108:VAL:HG12	1.60	0.41
1:A:31:PHE:O	1:A:119:ILE:HA	2.21	0.41
1:A:1279:ARG:CZ	1:A:1280:TYR:CD2	3.04	0.41
1:A:1320:LYS:CG	1:A:1321:GLY:H	2.34	0.41
1:A:1541:LEU:HD21	1:A:1543:ILE:HD12	2.03	0.41
1:A:176:GLU:HB2	1:A:185:PHE:CE1	2.56	0.41
1:A:539:ARG:HH21	1:A:634:CYS:H	1.59	0.41
2:B:1610:TRP:CG	2:B:1628:PHE:CD2	3.08	0.41
2:B:383:ALA:C	2:B:384:PHE:CD2	2.94	0.41
2:B:518:PHE:HE2	2:B:538:VAL:CG2	2.33	0.41
2:B:74:ASP:OD1	2:B:74:ASP:N	2.54	0.41
2:B:757:TRP:C	2:B:758:LEU:HD23	2.41	0.41
2:B:866:TYR:OH	2:B:1388:THR:CG2	2.69	0.41
1:C:124:GLY:C	1:C:125:PHE:CG	2.94	0.41
1:C:20:GLU:CB	1:C:551:THR:HG22	2.51	0.41
1:C:599:TRP:HE1	1:C:779:LEU:HB2	1.86	0.41
1:C:811:VAL:CG1	1:C:811:VAL:O	2.64	0.41
2:D:350:THR:O	2:D:350:THR:CG2	2.69	0.41
2:D:36:ASP:O	2:D:154:THR:HG22	2.20	0.41
2:D:407:GLN:HA	2:D:407:GLN:HE21	1.84	0.41
2:D:954:VAL:HG12	2:D:955:PRO:HD2	2.03	0.41
1:A:1213:LYS:HE2	1:A:1266:TYR:CE2	2.56	0.41
1:A:1271:ILE:HG21	1:A:1300:TYR:CD1	2.55	0.41
1:A:1280:TYR:CG	1:A:1280:TYR:O	2.74	0.41
1:A:382:LEU:HA	1:A:382:LEU:HD23	1.87	0.41
1:A:476:LEU:HA	1:A:476:LEU:HD23	1.78	0.41
1:A:541:LEU:HB2	1:A:557:ASP:O	2.20	0.41
1:A:599:TRP:HE1	1:A:779:LEU:CB	2.34	0.41
1:A:695:VAL:HG13	1:A:724:CYS:HA	2.02	0.41
2:B:1380:THR:HG23	2:B:1460:SER:HA	2.02	0.41
2:B:144:LEU:HD23	2:B:144:LEU:N	2.34	0.41
2:B:440:GLY:O	2:B:441:SER:C	2.60	0.41
2:B:514:LEU:HG	2:B:514:LEU:H	1.73	0.41
2:B:739:PHE:CE1	2:B:901:GLN:HB2	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1213:LYS:C	1:C:1215:GLU:N	2.73	0.41
1:C:501:TYR:CD1	1:C:501:TYR:O	2.73	0.41
1:C:515:ARG:HG3	1:C:526:ILE:HG23	2.03	0.41
1:C:663:GLN:O	1:C:664:GLU:HB2	2.21	0.41
1:C:682:LYS:HZ3	1:C:686:ILE:HD11	1.77	0.41
1:C:721:GLY:C	1:C:723:ARG:N	2.73	0.41
2:D:1632:SER:O	2:D:1636:THR:CB	2.68	0.41
2:D:226:VAL:HG21	2:D:320:VAL:CG1	2.51	0.41
2:D:238:ASP:O	2:D:238:ASP:OD1	2.39	0.41
2:D:355:LYS:HA	2:D:356:PRO:HD3	1.91	0.41
2:D:148:PHE:HB2	2:D:800:ILE:HD11	2.02	0.41
1:A:1013:MET:HA	1:A:1016:VAL:CG2	2.51	0.41
1:A:1159:CYS:O	1:A:1164:ILE:HD11	2.21	0.41
1:A:1426:ILE:HG22	1:A:1426:ILE:O	2.20	0.41
1:A:1379:LEU:HD12	1:A:1505:CYS:SG	2.61	0.41
1:A:1538:GLU:O	1:A:1539:LEU:C	2.59	0.41
1:A:1658:GLN:N	1:A:1658:GLN:HE21	2.17	0.41
1:A:269:PHE:HB2	1:A:283:MET:CE	2.50	0.41
1:A:392:ALA:HB1	1:A:432:GLU:O	2.21	0.41
1:A:510:ILE:HD12	1:A:533:ASN:HB2	2.02	0.41
1:A:543:TYR:H	1:A:543:TYR:HD1	1.68	0.41
1:A:567:CYS:HB3	1:A:570:GLN:HB3	2.03	0.41
2:B:943:GLU:HB2	2:B:1313:VAL:HG23	2.03	0.41
2:B:1407:TYR:CD2	2:B:1407:TYR:C	2.94	0.41
2:B:1501:ASN:H	2:B:1501:ASN:ND2	2.16	0.41
2:B:1575:LEU:N	2:B:1575:LEU:CD2	2.84	0.41
2:B:217:ARG:HG2	2:B:218:LYS:N	2.33	0.41
2:B:243:PHE:CE1	2:B:336:ILE:HG21	2.56	0.41
2:B:76:ASN:CB	2:B:77:PRO:HD2	2.44	0.41
1:C:1277:GLU:O	1:C:1278:GLN:C	2.58	0.41
1:C:1570:VAL:HG22	1:C:1575:VAL:HA	2.02	0.41
1:C:367:ILE:HD13	1:C:466:TYR:HD2	1.83	0.41
1:C:367:ILE:O	1:C:368:PRO:C	2.58	0.41
1:C:38:ASN:ND2	1:C:509:ILE:O	2.51	0.41
1:C:501:TYR:HE1	1:C:512:PHE:C	2.25	0.41
1:C:77:ASN:C	1:C:79:PHE:N	2.73	0.41
1:C:859:MET:HE1	1:C:898:PHE:HB3	2.02	0.41
1:C:970:LYS:O	1:C:971:THR:HG22	2.21	0.41
2:D:147:VAL:CG1	2:D:147:VAL:O	2.68	0.41
2:D:1519:ASN:O	2:D:1520:VAL:CG2	2.69	0.41
2:D:295:LYS:HD2	2:D:295:LYS:HA	1.87	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:860:SER:OG	2:D:866:TYR:CB	2.69	0.41
2:D:885:VAL:HG23	2:D:887:LEU:CD2	2.49	0.41
1:A:1020:TYR:CZ	1:A:1295:GLU:HB2	2.55	0.40
1:A:99:VAL:HG13	1:A:119:ILE:HD11	2.03	0.40
1:A:1226:ARG:HD2	1:A:1270:VAL:HG23	2.03	0.40
1:A:1568:ILE:CG2	1:A:1577:TYR:HE1	2.30	0.40
1:A:1625:LEU:O	1:A:1627:ILE:HG23	2.20	0.40
1:A:40:VAL:CG2	1:A:41:ILE:N	2.84	0.40
1:A:463:SER:CB	1:A:491:PRO:HA	2.51	0.40
1:A:60:PRO:HD2	1:A:61:ASP:N	2.17	0.40
1:A:862:VAL:CG1	1:A:907:LEU:HD21	2.50	0.40
1:A:949:ILE:CG2	1:A:949:ILE:O	2.69	0.40
2:B:1371:TYR:HB2	2:B:1377:SER:HB3	2.03	0.40
2:B:1414:ASP:O	2:B:1415:ASN:C	2.58	0.40
2:B:146:ARG:HA	2:B:183:PHE:CE2	2.56	0.40
2:B:402:ILE:N	2:B:402:ILE:HD13	2.36	0.40
1:C:1202:HIS:CG	1:C:1203:PRO:HD2	2.56	0.40
1:C:1245:ALA:HB2	1:C:1285:TYR:HB3	2.02	0.40
1:C:1406:ALA:O	1:C:1472:PHE:HA	2.21	0.40
1:C:1541:LEU:HD21	1:C:1543:ILE:HD12	2.03	0.40
1:C:163:PHE:CE2	1:C:201:ILE:HG12	2.56	0.40
1:C:355:ASN:ND2	1:C:355:ASN:N	2.67	0.40
1:C:518:PHE:HD2	1:C:524:GLN:NE2	2.19	0.40
1:C:651:LEU:HD23	1:C:651:LEU:HA	1.76	0.40
1:C:758:LEU:CB	1:C:759:PRO:HD2	2.50	0.40
1:C:832:SER:HA	1:C:928:ARG:HB3	2.03	0.40
1:C:36:SER:HA	1:C:86:THR:HG22	2.03	0.40
2:D:1289:ARG:C	2:D:1290:TYR:CD1	2.94	0.40
2:D:1369:THR:OG1	2:D:1370:ARG:N	2.54	0.40
2:D:1459:TYR:HB3	2:D:1466:GLU:HB3	2.03	0.40
2:D:148:PHE:CZ	2:D:792:VAL:HG11	2.55	0.40
2:D:386:SER:O	2:D:398:LEU:HD11	2.21	0.40
2:D:466:VAL:HG12	2:D:524:TYR:HE2	1.86	0.40
2:D:857:CYS:O	2:D:885:VAL:HG22	2.21	0.40
2:D:889:GLN:C	2:D:889:GLN:HE21	2.24	0.40
1:A:1127:ILE:HD12	1:A:1127:ILE:N	2.15	0.40
1:A:1161:LEU:HA	1:A:1161:LEU:HD13	1.85	0.40
1:A:1168:LEU:HA	1:A:1168:LEU:HD22	1.77	0.40
1:A:1217:LEU:HD12	1:A:1227:PHE:HE1	1.86	0.40
1:A:1277:GLU:O	1:A:1278:GLN:C	2.58	0.40
1:A:1439:LEU:O	1:A:1440:LYS:C	2.60	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1580:THR:HG23	1:A:1597:GLU:OE2	2.21	0.40
1:A:327:VAL:HG12	1:A:328:THR:N	2.36	0.40
1:A:330:ILE:HG22	1:A:337:SER:CB	2.38	0.40
1:A:354:LEU:CD2	1:A:450:GLU:HG3	2.51	0.40
1:A:404:LEU:HD22	1:A:404:LEU:HA	1.85	0.40
1:A:577:PRO:CD	1:A:588:VAL:HG23	2.51	0.40
1:A:700:TYR:HD1	1:A:758:LEU:HD12	1.86	0.40
1:A:800:GLN:HE21	1:A:800:GLN:HB2	1.69	0.40
1:A:885:ARG:HA	1:A:885:ARG:HD3	1.88	0.40
1:A:916:THR:C	1:A:918:PHE:H	2.25	0.40
1:A:934:VAL:HG13	1:A:935:LYS:N	2.36	0.40
2:B:354:PHE:CE2	2:B:409:LEU:HB2	2.57	0.40
1:C:1226:ARG:NE	1:C:1266:TYR:CE1	2.89	0.40
1:C:1226:ARG:HD3	1:C:1266:TYR:CE1	2.56	0.40
1:C:1285:TYR:O	1:C:1286:SER:O	2.39	0.40
1:C:1562:LYS:HB2	1:C:1583:ASP:O	2.21	0.40
1:C:196:TYR:CE1	1:C:221:GLU:CB	3.03	0.40
1:C:459:SER:OG	1:C:461:SER:HB3	2.22	0.40
1:C:577:PRO:HD2	1:C:588:VAL:HG23	2.02	0.40
1:C:23:TYR:C	1:C:655:THR:HG21	2.40	0.40
1:C:773:TRP:CZ3	1:C:774:LEU:HB2	2.54	0.40
1:C:953:ILE:HD12	1:C:955:ARG:HH21	1.87	0.40
2:D:1635:LEU:HD23	2:D:1635:LEU:HA	1.83	0.40
2:D:167:THR:HG23	2:D:171:ILE:N	2.37	0.40
2:D:354:PHE:CD1	2:D:354:PHE:C	2.93	0.40
2:D:484:LEU:HD11	2:D:626:LEU:CD1	2.51	0.40
2:D:511:THR:O	2:D:513:ASP:N	2.54	0.40
2:D:41:ILE:HG23	2:D:87:ILE:HD11	2.04	0.40
1:A:1043:GLN:O	1:A:1044:LYS:C	2.59	0.40
1:A:1083:LEU:CD2	1:A:1104:LEU:CD2	2.99	0.40
1:A:1091:LYS:HB2	1:A:1091:LYS:NZ	2.37	0.40
1:A:1127:ILE:HG13	1:A:1143:TYR:CE2	2.45	0.40
1:A:113:LYS:CG	1:A:114:SER:N	2.69	0.40
1:A:1467:ILE:HA	1:A:1468:PRO:HD3	1.78	0.40
1:A:575:LEU:HD23	1:A:590:LEU:HD13	2.04	0.40
1:A:115:LYS:HE3	1:A:654:LEU:HD11	2.02	0.40
1:A:49:ALA:HB2	1:A:74:SER:HB2	2.03	0.40
1:A:754:MET:HE1	1:A:756:THR:HA	2.03	0.40
1:A:942:VAL:CG2	1:A:1359:VAL:HB	2.52	0.40
1:A:942:VAL:HG11	1:A:957:LYS:HG2	2.03	0.40
1:A:961:TYR:CE1	1:A:963:ILE:HG12	2.56	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:89:ILE:CD1	2:B:121:LEU:HD11	2.52	0.40
2:B:1619:GLU:HA	2:B:1622:GLN:NE2	2.36	0.40
2:B:495:GLN:OE1	2:B:506:MET:HB2	2.22	0.40
2:B:580:VAL:CG1	2:B:581:ASP:N	2.84	0.40
2:B:825:VAL:HA	2:B:916:VAL:O	2.22	0.40
1:C:1054:LEU:O	1:C:1057:MET:HB2	2.21	0.40
1:C:1289:ASP:O	1:C:1290:THR:C	2.60	0.40
1:C:141:VAL:HG23	1:C:188:PHE:O	2.21	0.40
1:C:1432:ILE:N	1:C:1432:ILE:HD13	2.35	0.40
1:C:1560:ALA:O	1:C:1561:TYR:CB	2.69	0.40
1:C:1568:ILE:HD11	1:C:1613:LYS:HB2	2.03	0.40
1:C:1573:VAL:HG12	1:C:1603:LYS:CB	2.50	0.40
1:C:1578:LYS:HD3	1:C:1578:LYS:HA	1.87	0.40
1:C:1622:LYS:HB2	1:C:1643:THR:HG22	2.02	0.40
1:C:29:LYS:HB3	1:C:29:LYS:HE3	1.88	0.40
1:C:354:LEU:H	1:C:354:LEU:HD23	1.86	0.40
2:D:1273:LEU:HD13	2:D:1275:LEU:HG	2.04	0.40
2:D:27:LEU:HD11	2:D:29:THR:HG22	2.03	0.40
2:D:341:SER:HA	2:D:342:PRO:HD3	1.82	0.40
2:D:364:VAL:O	2:D:395:THR:HA	2.21	0.40
2:D:536:VAL:HG22	2:D:537:TRP:N	2.37	0.40
2:D:742:ASP:OD1	2:D:743:SER:N	2.55	0.40
1:A:1499:HIS:C	1:A:1500:ARG:HG3	2.42	0.40
1:A:156:LYS:CD	1:A:156:LYS:C	2.89	0.40
1:A:238:ILE:HG12	1:A:246:PHE:HE1	1.84	0.40
1:A:336:PHE:HB3	1:A:337:SER:H	1.76	0.40
1:A:500:ASN:CB	1:A:543:TYR:CD1	2.94	0.40
2:B:1327:THR:CG2	2:B:1328:PHE:N	2.84	0.40
2:B:1569:CYS:O	2:B:1570:GLN:C	2.59	0.40
2:B:202:LYS:CG	2:B:203:TYR:N	2.84	0.40
2:B:296:ARG:NH1	2:B:296:ARG:CG	2.85	0.40
2:B:302:ARG:HG3	2:B:303:PHE:CE1	2.56	0.40
2:B:511:THR:H	2:B:514:LEU:HD11	1.87	0.40
2:B:574:ARG:HH21	2:B:759:THR:HG21	1.87	0.40
2:B:151:ASP:HB2	2:B:794:PHE:CZ	2.56	0.40
2:B:41:ILE:HG23	2:B:87:ILE:HD11	2.04	0.40
2:B:884:ILE:HG21	2:B:884:ILE:HD13	1.84	0.40
1:C:1016:VAL:N	1:C:1017:PRO:HD2	2.33	0.40
1:A:1305:LYS:CB	1:C:116:ARG:HH21	2.35	0.40
1:C:1244:THR:O	1:C:1248:VAL:HG23	2.22	0.40
1:C:1267:VAL:O	1:C:1270:VAL:HB	2.20	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1304:VAL:HG12	1:C:1305:LYS:H	1.83	0.40
1:C:1347:ILE:HG22	1:C:1347:ILE:O	2.20	0.40
1:C:1616:GLN:HB2	1:C:1648:TRP:O	2.21	0.40
1:C:308:LYS:HA	1:C:313:TYR:O	2.21	0.40
1:C:350:SER:OG	1:C:352:TYR:O	2.40	0.40
1:C:398:ASN:O	1:C:399:GLN:CB	2.69	0.40
1:C:689:LYS:O	1:C:691:LYS:N	2.52	0.40
1:C:775:TRP:CD1	1:C:775:TRP:O	2.75	0.40
2:D:1391:LEU:HD12	2:D:1417:MET:CE	2.52	0.40
2:D:151:ASP:HB2	2:D:794:PHE:CZ	2.57	0.40
2:D:1506:ILE:CD1	2:D:1628:PHE:CE1	3.05	0.40
2:D:343:TYR:HE1	2:D:420:LEU:HD11	1.85	0.40
2:D:42:LEU:HD22	2:D:492:VAL:HG21	2.04	0.40
2:D:824:VAL:CG1	2:D:913:LEU:HD21	2.51	0.40
2:D:895:GLU:HA	2:D:909:VAL:O	2.21	0.40
2:D:965:ILE:HD12	2:D:1277:ILE:HD13	2.03	0.40
1:A:1151:GLY:O	1:A:1154:LYS:N	2.52	0.40
1:A:1274:LEU:HD23	1:A:1274:LEU:HA	1.84	0.40
1:A:1324:HIS:CG	1:A:1336:ARG:NH2	2.89	0.40
1:A:1381:ILE:HB	1:A:1493:PHE:CD2	2.57	0.40
1:A:1003:LEU:HD12	1:A:1498:TYR:CE2	2.56	0.40
1:A:1560:ALA:HA	1:A:1620:MET:HA	2.04	0.40
1:A:449:ARG:O	1:A:450:GLU:HG2	2.21	0.40
1:A:545:ILE:HG12	1:A:545:ILE:H	1.63	0.40
1:A:40:VAL:HB	1:A:82:SER:HB3	2.02	0.40
1:A:945:ASP:OD1	1:A:945:ASP:C	2.59	0.40
1:A:970:LYS:O	1:A:971:THR:HG23	2.21	0.40
2:B:1459:TYR:HB3	2:B:1466:GLU:HB3	2.03	0.40
2:B:1498:SER:O	2:B:1573:LEU:HD21	2.22	0.40
2:B:295:LYS:HA	2:B:295:LYS:HD2	1.89	0.40
2:B:376:HIS:HA	2:B:389:THR:HG22	2.04	0.40
2:B:60:ASP:N	2:B:68:LEU:HD21	2.37	0.40
2:B:902:GLU:HG3	2:B:902:GLU:O	2.22	0.40
1:C:1226:ARG:NH1	1:C:1266:TYR:CE1	2.86	0.40
1:C:1386:ILE:HG22	1:C:1399:TYR:HB2	2.03	0.40
1:C:1538:GLU:O	1:C:1539:LEU:C	2.60	0.40
1:C:1570:VAL:C	1:C:1571:GLU:HG3	2.42	0.40
1:C:1612:VAL:HB	1:C:1615:ARG:CB	2.51	0.40
1:C:1646:GLU:OE2	1:C:1660:PHE:HZ	2.04	0.40
1:C:23:TYR:CE1	1:C:655:THR:CB	3.05	0.40
1:C:240:TYR:CD2	1:C:240:TYR:C	2.92	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:324:TYR:C	1:C:324:TYR:CD2	2.95	0.40
1:C:436:LYS:HA	1:C:448:ALA:O	2.22	0.40
1:C:495:LYS:HD3	1:C:495:LYS:HA	1.57	0.40
1:C:61:ASP:O	1:C:62:LYS:HB2	2.22	0.40
1:C:970:LYS:O	1:C:971:THR:HG23	2.22	0.40
2:D:1623:LYS:HD2	2:D:1623:LYS:N	2.36	0.40
2:D:405:ASN:N	2:D:405:ASN:OD1	2.54	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	1617/1676 (96%)	1173 (72%)	292 (18%)	152 (9%)	1	14
1	C	1617/1676 (96%)	1179 (73%)	288 (18%)	150 (9%)	1	14
2	B	1215/1642 (74%)	998 (82%)	161 (13%)	56 (5%)	3	30
2	D	1215/1642 (74%)	995 (82%)	162 (13%)	58 (5%)	2	29
All	All	5664/6636 (85%)	4345 (77%)	903 (16%)	416 (7%)	1	19

All (416) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	48	GLU
1	A	60	PRO
1	A	89	PRO
1	A	96	GLN
1	A	97	ASN
1	A	154	PRO
1	A	155	ALA
1	A	181	GLY

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Mol	Chain	Res	Type
1	A	208	ASP
1	A	255	PHE
1	A	285	THR
1	A	287	MET
1	A	308	LYS
1	A	309	GLU
1	A	312	TYR
1	A	489	LYS
1	A	490	SER
1	A	519	SER
1	A	522	SER
1	A	579	ALA
1	A	619	PRO
1	A	621	GLU
1	A	656	ASN
1	A	692	HIS
1	A	754	MET
1	A	759	PRO
1	A	793	SER
1	A	873	ILE
1	A	884	VAL
1	A	885	ARG
1	A	931	PRO
1	A	946	PRO
1	A	948	GLY
1	A	960	PRO
1	A	1091	LYS
1	A	1143	TYR
1	A	1284	PHE
1	A	1286	SER
1	A	1352	PHE
1	A	1386	ILE
1	A	1452	ASP
1	A	1534	GLN
1	A	1584	ILE
1	A	1585	TYR
1	A	1589	GLU
1	A	1628	LYS
1	A	1638	PRO
1	A	1639	LEU
1	A	1651	ASP
1	A	1654	CYS

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Mol	Chain	Res	Type
1	A	1674	ASN
2	B	48	ASP
2	B	207	PRO
2	B	220	VAL
2	B	349	LYS
2	B	418	GLY
2	B	490	PHE
2	B	545	MET
2	B	583	ALA
2	B	641	ALA
2	B	643	LYS
2	B	647	PRO
2	B	736	GLU
2	B	937	VAL
2	B	1297	ALA
2	B	1449	GLY
2	B	1529	LEU
2	B	1597	ILE
1	C	48	GLU
1	C	60	PRO
1	C	89	PRO
1	C	96	GLN
1	C	97	ASN
1	C	154	PRO
1	C	155	ALA
1	C	181	GLY
1	C	208	ASP
1	C	255	PHE
1	C	285	THR
1	C	287	MET
1	C	308	LYS
1	C	309	GLU
1	C	312	TYR
1	C	489	LYS
1	C	490	SER
1	C	522	SER
1	C	616	ALA
1	C	621	GLU
1	C	656	ASN
1	C	692	HIS
1	C	754	MET
1	C	759	PRO

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Mol	Chain	Res	Type
1	C	793	SER
1	C	820	PHE
1	C	873	ILE
1	C	884	VAL
1	C	885	ARG
1	C	931	PRO
1	C	946	PRO
1	C	948	GLY
1	C	960	PRO
1	C	1091	LYS
1	C	1143	TYR
1	C	1284	PHE
1	C	1286	SER
1	C	1352	PHE
1	C	1386	ILE
1	C	1452	ASP
1	C	1534	GLN
1	C	1584	ILE
1	C	1585	TYR
1	C	1589	GLU
1	C	1628	LYS
1	C	1638	PRO
1	C	1639	LEU
1	C	1651	ASP
1	C	1654	CYS
1	C	1674	ASN
2	D	48	ASP
2	D	220	VAL
2	D	348	THR
2	D	349	LYS
2	D	418	GLY
2	D	490	PHE
2	D	545	MET
2	D	583	ALA
2	D	641	ALA
2	D	643	LYS
2	D	647	PRO
2	D	736	GLU
2	D	937	VAL
2	D	1297	ALA
2	D	1449	GLY
2	D	1529	LEU

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Mol	Chain	Res	Type
2	D	1597	ILE
1	A	459	SER
1	A	474	LYS
1	A	475	ALA
1	A	552	ALA
1	A	569	ASN
1	A	616	ALA
1	A	623	VAL
1	A	627	LEU
1	A	638	GLY
1	A	664	GLU
1	A	806	ASN
1	A	820	PHE
1	A	889	GLU
1	A	890	GLY
1	A	939	TYR
1	A	981	GLY
1	A	998	ASN
1	A	1001	THR
1	A	1004	PRO
1	A	1009	GLU
1	A	1096	ASN
1	A	1122	SER
1	A	1140	ASN
1	A	1238	SER
1	A	1321	GLY
1	A	1324	HIS
1	A	1334	LEU
1	A	1382	ASP
1	A	1421	HIS
1	A	1471	ASP
1	A	1538	GLU
1	A	1590	ALA
2	B	237	ILE
2	B	348	THR
2	B	604	LYS
2	B	842	GLU
2	B	862	LYS
2	B	873	LYS
2	B	1319	GLY
2	B	1379	MET
2	B	1503	GLN

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Mol	Chain	Res	Type
2	B	1558	ALA
2	B	1570	GLN
1	C	305	THR
1	C	459	SER
1	C	474	LYS
1	C	519	SER
1	C	552	ALA
1	C	569	ASN
1	C	579	ALA
1	C	619	PRO
1	C	623	VAL
1	C	627	LEU
1	C	634	CYS
1	C	638	GLY
1	C	664	GLU
1	C	889	GLU
1	C	890	GLY
1	C	981	GLY
1	C	994	GLN
1	C	998	ASN
1	C	1001	THR
1	C	1004	PRO
1	C	1009	GLU
1	C	1096	ASN
1	C	1140	ASN
1	C	1238	SER
1	C	1321	GLY
1	C	1324	HIS
1	C	1334	LEU
1	C	1382	ASP
1	C	1421	HIS
1	C	1471	ASP
1	C	1538	GLU
1	C	1590	ALA
1	C	1609	ALA
2	D	142	PRO
2	D	207	PRO
2	D	237	ILE
2	D	470	ALA
2	D	604	LYS
2	D	842	GLU
2	D	873	LYS

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Mol	Chain	Res	Type
2	D	1319	GLY
2	D	1379	MET
2	D	1503	GLN
2	D	1558	ALA
2	D	1570	GLN
1	A	209	PHE
1	A	286	ALA
1	A	289	ASN
1	A	305	THR
1	A	440	PRO
1	A	441	ASP
1	A	472	ASN
1	A	624	PHE
1	A	634	CYS
1	A	657	ALA
1	A	791	PRO
1	A	821	LYS
1	A	823	VAL
1	A	849	ARG
1	A	938	SER
1	A	994	GLN
1	A	1194	ALA
1	A	1196	SER
1	A	1539	LEU
1	A	1588	GLY
1	A	1609	ALA
1	A	1632	SER
1	A	1652	THR
2	B	142	PRO
2	B	435	TYR
2	B	470	ALA
2	B	613	SER
2	B	780	LEU
2	B	1340	CYS
2	B	1497	CYS
2	B	1557	ARG
1	C	167	GLU
1	C	440	PRO
1	C	441	ASP
1	C	472	ASN
1	C	475	ALA
1	C	488	PRO

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Mol	Chain	Res	Type
1	C	520	ASP
1	C	624	PHE
1	C	657	ALA
1	C	760	VAL
1	C	791	PRO
1	C	806	ASN
1	C	821	LYS
1	C	823	VAL
1	C	849	ARG
1	C	938	SER
1	C	939	TYR
1	C	1122	SER
1	C	1194	ALA
1	C	1196	SER
1	C	1539	LEU
1	C	1632	SER
1	C	1652	THR
2	D	326	SER
2	D	435	TYR
2	D	613	SER
2	D	780	LEU
2	D	862	LYS
2	D	1340	CYS
2	D	1497	CYS
2	D	1557	ARG
1	A	234	GLU
1	A	256	TYR
1	A	520	ASP
1	A	667	GLU
1	A	690	TYR
1	A	760	VAL
1	A	882	LYS
1	A	909	ASN
1	A	988	LEU
1	A	1139	GLU
1	A	1150	ILE
1	A	1513	ASN
1	A	1540	ASP
1	A	1573	VAL
1	A	1655	SER
2	B	81	MET
2	B	277	PRO

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Mol	Chain	Res	Type
2	B	326	SER
2	B	959	ILE
2	B	1447	GLU
2	B	1501	ASN
1	C	94	GLY
1	C	256	TYR
1	C	286	ALA
1	C	289	ASN
1	C	337	SER
1	C	667	GLU
1	C	690	TYR
1	C	909	ASN
1	C	987	ILE
1	C	988	LEU
1	C	997	ILE
1	C	1098	ASN
1	C	1139	GLU
1	C	1540	ASP
1	C	1573	VAL
1	C	1588	GLY
1	C	1655	SER
2	D	81	MET
2	D	277	PRO
2	D	471	ASN
2	D	821	PRO
2	D	959	ILE
2	D	1298	LEU
2	D	1332	GLN
2	D	1447	GLU
2	D	1501	ASN
2	D	1553	ASP
2	D	1560	THR
1	A	94	GLY
1	A	101	TYR
1	A	167	GLU
1	A	186	PRO
1	A	274	ASP
1	A	291	MET
1	A	337	SER
1	A	488	PRO
1	A	576	SER
1	A	737	GLN

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Mol	Chain	Res	Type
1	A	753	HIS
1	A	987	ILE
1	A	997	ILE
1	A	1098	ASN
1	A	1134	PRO
1	A	1160	PRO
1	A	1272	LYS
1	A	1675	GLY
2	B	471	ASN
2	B	950	LEU
2	B	1332	GLN
2	B	1556	PRO
2	B	1639	GLY
1	C	101	TYR
1	C	186	PRO
1	C	234	GLU
1	C	291	MET
1	C	576	SER
1	C	753	HIS
1	C	882	LYS
1	C	1023	HIS
1	C	1134	PRO
1	C	1150	ILE
1	C	1513	ASN
1	C	1675	GLY
2	D	1556	PRO
2	D	1592	PRO
1	A	633	GLY
1	A	986	GLU
1	A	1002	HIS
1	A	1022	PHE
1	A	1243	GLY
2	B	560	GLY
2	B	1514	LYS
2	B	1592	PRO
1	C	274	ASP
1	C	970	LYS
1	C	1272	LYS
2	D	49	SER
2	D	950	LEU
2	B	821	PRO
1	C	633	GLY

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Mol	Chain	Res	Type
1	C	1160	PRO
1	C	1243	GLY
1	C	1649	PRO
2	D	560	GLY
1	A	166	PRO
1	A	1649	PRO
2	B	339	VAL
1	C	510	ILE
1	C	1671	ILE
2	D	339	VAL
2	D	403	PRO
1	A	93	PRO
1	A	171	VAL
1	A	999	ILE
1	A	1671	ILE
2	B	79	GLY
2	B	403	PRO
2	B	512	PRO
2	B	559	PRO
1	C	93	PRO
1	C	166	PRO
1	C	171	VAL
2	D	79	GLY
2	D	512	PRO
2	D	584	VAL
1	A	137	PRO
1	A	168	GLY
1	C	168	GLY
1	C	999	ILE
1	C	1239	VAL

5.3.2 Protein sidechains ⓘ

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
1	A	1446/1484 (97%)	1108 (77%)	338 (23%)	1 7

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	C	1446/1484 (97%)	1109 (77%)	337 (23%)	1	7
2	B	1093/1435 (76%)	845 (77%)	248 (23%)	1	8
2	D	1093/1435 (76%)	845 (77%)	248 (23%)	1	8
All	All	5078/5838 (87%)	3907 (77%)	1171 (23%)	1	7

All (1171) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	21	GLN
1	A	22	THR
1	A	23	TYR
1	A	24	VAL
1	A	26	SER
1	A	38	ASN
1	A	40	VAL
1	A	41	ILE
1	A	47	THR
1	A	55	SER
1	A	63	LYS
1	A	64	PHE
1	A	67	SER
1	A	71	VAL
1	A	73	LEU
1	A	87	ILE
1	A	89	PRO
1	A	91	GLN
1	A	99	VAL
1	A	104	LEU
1	A	106	VAL
1	A	110	HIS
1	A	125	PHE
1	A	126	LEU
1	A	131	ASP
1	A	136	THR
1	A	144	ARG
1	A	148	LEU
1	A	156	LYS
1	A	157	ARG
1	A	158	GLU
1	A	161	LEU
1	A	162	THR

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Mol	Chain	Res	Type
1	A	167	GLU
1	A	169	SER
1	A	171	VAL
1	A	176	GLU
1	A	182	ILE
1	A	183	ILE
1	A	200	THR
1	A	208	ASP
1	A	211	THR
1	A	212	THR
1	A	214	THR
1	A	222	TYR
1	A	224	LEU
1	A	228	SER
1	A	230	SER
1	A	232	GLU
1	A	240	TYR
1	A	241	LYS
1	A	242	ASN
1	A	249	THR
1	A	261	THR
1	A	268	THR
1	A	279	GLN
1	A	287	MET
1	A	288	GLN
1	A	289	ASN
1	A	291	MET
1	A	292	LEU
1	A	296	ILE
1	A	310	LEU
1	A	315	LEU
1	A	321	LYS
1	A	322	TYR
1	A	323	LEU
1	A	324	TYR
1	A	328	THR
1	A	333	THR
1	A	337	SER
1	A	353	LYS
1	A	354	LEU
1	A	355	ASN
1	A	363	LEU

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Mol	Chain	Res	Type
1	A	371	ILE
1	A	373	VAL
1	A	375	VAL
1	A	383	VAL
1	A	389	THR
1	A	390	LEU
1	A	394	THR
1	A	396	ASP
1	A	400	GLU
1	A	402	SER
1	A	404	LEU
1	A	407	SER
1	A	412	ARG
1	A	414	ASP
1	A	419	SER
1	A	422	LEU
1	A	431	LEU
1	A	433	PHE
1	A	441	ASP
1	A	442	LEU
1	A	457	TYR
1	A	458	SER
1	A	460	LEU
1	A	467	ILE
1	A	469	TRP
1	A	471	ASP
1	A	474	LYS
1	A	477	LEU
1	A	492	TYR
1	A	495	LYS
1	A	497	THR
1	A	498	HIS
1	A	501	TYR
1	A	504	LEU
1	A	506	LYS
1	A	509	ILE
1	A	516	GLU
1	A	522	SER
1	A	526	ILE
1	A	534	MET
1	A	535	VAL
1	A	540	LEU

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Mol	Chain	Res	Type
1	A	541	LEU
1	A	543	TYR
1	A	545	ILE
1	A	547	THR
1	A	549	GLU
1	A	550	GLN
1	A	555	VAL
1	A	558	SER
1	A	559	VAL
1	A	563	ILE
1	A	565	GLU
1	A	569	ASN
1	A	573	VAL
1	A	580	ASP
1	A	587	THR
1	A	596	MET
1	A	597	ASP
1	A	599	TRP
1	A	605	VAL
1	A	613	GLN
1	A	614	ARG
1	A	618	LYS
1	A	621	GLU
1	A	625	GLN
1	A	627	LEU
1	A	640	LEU
1	A	642	ASN
1	A	644	ASN
1	A	652	THR
1	A	653	PHE
1	A	663	GLN
1	A	664	GLU
1	A	667	GLU
1	A	672	ILE
1	A	692	HIS
1	A	697	LYS
1	A	699	CYS
1	A	704	CYS
1	A	710	THR
1	A	713	GLN
1	A	720	LEU
1	A	732	CYS

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Mol	Chain	Res	Type
1	A	753	HIS
1	A	754	MET
1	A	756	THR
1	A	758	LEU
1	A	766	ARG
1	A	767	SER
1	A	774	LEU
1	A	777	VAL
1	A	782	ARG
1	A	787	GLN
1	A	788	PHE
1	A	793	SER
1	A	795	THR
1	A	797	TRP
1	A	800	GLN
1	A	811	VAL
1	A	824	PHE
1	A	825	LEU
1	A	838	GLN
1	A	845	VAL
1	A	849	ARG
1	A	850	THR
1	A	854	GLN
1	A	856	CYS
1	A	857	VAL
1	A	859	MET
1	A	865	ILE
1	A	867	THR
1	A	876	GLN
1	A	887	LYS
1	A	895	LEU
1	A	896	VAL
1	A	899	THR
1	A	901	LEU
1	A	912	PHE
1	A	914	LEU
1	A	915	GLU
1	A	923	LEU
1	A	928	ARG
1	A	935	LYS
1	A	936	ARG
1	A	940	SER

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Mol	Chain	Res	Type
1	A	944	LEU
1	A	947	ARG
1	A	952	THR
1	A	953	ILE
1	A	955	ARG
1	A	967	LEU
1	A	972	GLU
1	A	975	ARG
1	A	977	LEU
1	A	983	LEU
1	A	984	VAL
1	A	988	LEU
1	A	1001	THR
1	A	1002	HIS
1	A	1003	LEU
1	A	1007	SER
1	A	1011	GLU
1	A	1013	MET
1	A	1014	SER
1	A	1018	VAL
1	A	1033	ILE
1	A	1055	SER
1	A	1056	ILE
1	A	1070	LYS
1	A	1078	LEU
1	A	1084	ARG
1	A	1089	VAL
1	A	1091	LYS
1	A	1098	ASN
1	A	1105	LEU
1	A	1107	LEU
1	A	1108	VAL
1	A	1110	ASN
1	A	1113	LEU
1	A	1127	ILE
1	A	1128	LYS
1	A	1129	LEU
1	A	1140	ASN
1	A	1141	SER
1	A	1164	ILE
1	A	1166	THR
1	A	1168	LEU

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Mol	Chain	Res	Type
1	A	1175	LEU
1	A	1180	LEU
1	A	1183	GLN
1	A	1185	THR
1	A	1196	SER
1	A	1200	LYS
1	A	1201	THR
1	A	1209	VAL
1	A	1212	LEU
1	A	1218	VAL
1	A	1227	PHE
1	A	1231	ASN
1	A	1236	ASP
1	A	1246	ARG
1	A	1259	LEU
1	A	1264	ILE
1	A	1279	ARG
1	A	1280	TYR
1	A	1301	SER
1	A	1302	LEU
1	A	1303	LEU
1	A	1306	GLN
1	A	1307	LEU
1	A	1308	ARG
1	A	1309	LEU
1	A	1311	MET
1	A	1313	ILE
1	A	1323	LEU
1	A	1326	TYR
1	A	1330	ASP
1	A	1331	LYS
1	A	1333	PHE
1	A	1334	LEU
1	A	1336	ARG
1	A	1338	VAL
1	A	1341	LEU
1	A	1346	LEU
1	A	1356	LEU
1	A	1361	VAL
1	A	1363	THR
1	A	1366	HIS
1	A	1367	LYS

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Mol	Chain	Res	Type
1	A	1372	GLU
1	A	1374	VAL
1	A	1375	CYS
1	A	1397	SER
1	A	1423	VAL
1	A	1433	SER
1	A	1450	PHE
1	A	1454	GLN
1	A	1464	LEU
1	A	1470	SER
1	A	1474	CYS
1	A	1475	VAL
1	A	1476	ARG
1	A	1479	ILE
1	A	1480	PHE
1	A	1483	PHE
1	A	1487	PHE
1	A	1488	LEU
1	A	1492	THR
1	A	1493	PHE
1	A	1494	THR
1	A	1500	ARG
1	A	1503	LYS
1	A	1504	GLN
1	A	1506	THR
1	A	1507	MET
1	A	1512	SER
1	A	1535	MET
1	A	1542	THR
1	A	1544	SER
1	A	1548	ARG
1	A	1549	LYS
1	A	1553	CYS
1	A	1566	THR
1	A	1577	TYR
1	A	1580	THR
1	A	1581	LEU
1	A	1585	TYR
1	A	1598	ILE
1	A	1602	LYS
1	A	1605	THR
1	A	1606	CYS

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Mol	Chain	Res	Type
1	A	1618	LEU
1	A	1626	GLN
1	A	1627	ILE
1	A	1631	PHE
1	A	1636	ILE
1	A	1639	LEU
1	A	1650	ARG
1	A	1651	ASP
1	A	1652	THR
1	A	1655	SER
1	A	1663	ASN
2	B	29	THR
2	B	40	GLN
2	B	43	VAL
2	B	54	LEU
2	B	56	ILE
2	B	58	VAL
2	B	68	LEU
2	B	71	THR
2	B	74	ASP
2	B	82	LEU
2	B	86	THR
2	B	87	ILE
2	B	100	GLN
2	B	105	VAL
2	B	106	VAL
2	B	108	VAL
2	B	114	ARG
2	B	119	VAL
2	B	120	LEU
2	B	124	GLN
2	B	144	LEU
2	B	147	VAL
2	B	161	VAL
2	B	167	THR
2	B	171	ILE
2	B	175	SER
2	B	176	ASN
2	B	177	SER
2	B	179	ASP
2	B	183	PHE
2	B	190	ASP

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Mol	Chain	Res	Type
2	B	191	LEU
2	B	196	THR
2	B	198	ARG
2	B	202	LYS
2	B	208	GLU
2	B	214	PHE
2	B	216	VAL
2	B	217	ARG
2	B	219	TYR
2	B	220	VAL
2	B	221	LEU
2	B	223	SER
2	B	231	SER
2	B	234	PHE
2	B	243	PHE
2	B	258	GLU
2	B	263	VAL
2	B	264	LEU
2	B	278	ASP
2	B	280	LEU
2	B	285	ILE
2	B	291	LYS
2	B	296	ARG
2	B	297	ASP
2	B	298	THR
2	B	299	PHE
2	B	301	SER
2	B	306	LEU
2	B	315	TYR
2	B	317	SER
2	B	323	GLU
2	B	327	ASP
2	B	328	MET
2	B	341	SER
2	B	344	GLN
2	B	345	ILE
2	B	348	THR
2	B	349	LYS
2	B	358	MET
2	B	379	VAL
2	B	382	GLU
2	B	386	SER

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Mol	Chain	Res	Type
2	B	389	THR
2	B	390	THR
2	B	398	LEU
2	B	400	LEU
2	B	404	LEU
2	B	414	ARG
2	B	416	ASN
2	B	422	ARG
2	B	427	THR
2	B	433	ILE
2	B	435	TYR
2	B	437	THR
2	B	449	ILE
2	B	460	LEU
2	B	465	ASN
2	B	466	VAL
2	B	469	ASN
2	B	472	SER
2	B	473	LEU
2	B	481	TYR
2	B	482	LEU
2	B	483	ILE
2	B	490	PHE
2	B	497	ARG
2	B	504	VAL
2	B	505	THR
2	B	511	THR
2	B	513	ASP
2	B	518	PHE
2	B	520	PHE
2	B	521	VAL
2	B	523	TYR
2	B	524	TYR
2	B	525	GLN
2	B	526	VAL
2	B	531	ILE
2	B	532	VAL
2	B	543	THR
2	B	544	CYS
2	B	555	LEU
2	B	556	ILE
2	B	558	MET

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Mol	Chain	Res	Type
2	B	563	MET
2	B	567	LEU
2	B	586	VAL
2	B	588	ASN
2	B	593	ILE
2	B	597	LYS
2	B	598	ILE
2	B	602	ILE
2	B	606	ASP
2	B	613	SER
2	B	615	GLN
2	B	629	THR
2	B	638	GLN
2	B	735	ASN
2	B	742	ASP
2	B	745	ILE
2	B	746	ILE
2	B	747	SER
2	B	764	GLU
2	B	769	GLN
2	B	773	SER
2	B	778	PHE
2	B	780	LEU
2	B	784	ILE
2	B	789	VAL
2	B	800	ILE
2	B	813	VAL
2	B	816	ILE
2	B	817	ASP
2	B	819	GLN
2	B	829	GLN
2	B	830	VAL
2	B	836	LEU
2	B	840	VAL
2	B	851	LEU
2	B	857	CYS
2	B	868	GLN
2	B	870	PHE
2	B	872	ILE
2	B	873	LYS
2	B	884	ILE
2	B	887	LEU

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Mol	Chain	Res	Type
2	B	889	GLN
2	B	891	LEU
2	B	918	GLU
2	B	920	VAL
2	B	925	VAL
2	B	926	THR
2	B	946	LYS
2	B	948	ARG
2	B	949	LYS
2	B	952	ASP
2	B	963	ILE
2	B	964	ILE
2	B	1273	LEU
2	B	1274	ASN
2	B	1278	THR
2	B	1279	ILE
2	B	1281	LEU
2	B	1291	ARG
2	B	1292	ILE
2	B	1301	ARG
2	B	1304	GLU
2	B	1305	THR
2	B	1308	ASN
2	B	1313	VAL
2	B	1322	THR
2	B	1324	THR
2	B	1329	TYR
2	B	1330	ASN
2	B	1332	GLN
2	B	1344	HIS
2	B	1345	LEU
2	B	1346	ASN
2	B	1350	GLU
2	B	1351	ASN
2	B	1364	MET
2	B	1365	LEU
2	B	1372	LEU
2	B	1378	THR
2	B	1380	THR
2	B	1388	THR
2	B	1396	ASP
2	B	1398	THR

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Mol	Chain	Res	Type
2	B	1401	SER
2	B	1406	ARG
2	B	1423	VAL
2	B	1424	ILE
2	B	1427	LEU
2	B	1429	LYS
2	B	1431	SER
2	B	1433	SER
2	B	1437	CYS
2	B	1438	LEU
2	B	1439	HIS
2	B	1442	ILE
2	B	1443	LEU
2	B	1448	VAL
2	B	1450	PHE
2	B	1451	ILE
2	B	1456	VAL
2	B	1464	LEU
2	B	1475	ASP
2	B	1480	LEU
2	B	1481	LEU
2	B	1490	CYS
2	B	1492	CYS
2	B	1495	GLU
2	B	1496	THR
2	B	1497	CYS
2	B	1500	LEU
2	B	1502	HIS
2	B	1504	GLU
2	B	1511	GLN
2	B	1516	CYS
2	B	1519	ASN
2	B	1526	THR
2	B	1535	ASP
2	B	1561	HIS
2	B	1566	GLN
2	B	1571	GLU
2	B	1582	LEU
2	B	1583	ILE
2	B	1584	TRP
2	B	1594	LYS
2	B	1598	SER

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Mol	Chain	Res	Type
2	B	1599	TYR
2	B	1604	ASN
2	B	1606	TRP
2	B	1607	ILE
2	B	1609	ARG
2	B	1622	GLN
2	B	1623	LYS
1	C	21	GLN
1	C	22	THR
1	C	23	TYR
1	C	24	VAL
1	C	26	SER
1	C	38	ASN
1	C	40	VAL
1	C	41	ILE
1	C	47	THR
1	C	55	SER
1	C	63	LYS
1	C	64	PHE
1	C	67	SER
1	C	71	VAL
1	C	73	LEU
1	C	85	LEU
1	C	87	ILE
1	C	91	GLN
1	C	99	VAL
1	C	104	LEU
1	C	106	VAL
1	C	110	HIS
1	C	125	PHE
1	C	126	LEU
1	C	131	ASP
1	C	136	THR
1	C	143	VAL
1	C	144	ARG
1	C	148	LEU
1	C	156	LYS
1	C	157	ARG
1	C	158	GLU
1	C	161	LEU
1	C	162	THR
1	C	164	ILE

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Mol	Chain	Res	Type
1	C	167	GLU
1	C	169	SER
1	C	176	GLU
1	C	182	ILE
1	C	183	ILE
1	C	200	THR
1	C	208	ASP
1	C	211	THR
1	C	212	THR
1	C	214	THR
1	C	222	TYR
1	C	224	LEU
1	C	228	SER
1	C	230	SER
1	C	232	GLU
1	C	240	TYR
1	C	241	LYS
1	C	242	ASN
1	C	249	THR
1	C	261	THR
1	C	268	THR
1	C	279	GLN
1	C	287	MET
1	C	288	GLN
1	C	289	ASN
1	C	291	MET
1	C	292	LEU
1	C	296	ILE
1	C	310	LEU
1	C	315	LEU
1	C	322	TYR
1	C	323	LEU
1	C	324	TYR
1	C	328	THR
1	C	333	THR
1	C	337	SER
1	C	354	LEU
1	C	355	ASN
1	C	363	LEU
1	C	371	ILE
1	C	373	VAL
1	C	375	VAL

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Mol	Chain	Res	Type
1	C	383	VAL
1	C	389	THR
1	C	390	LEU
1	C	394	THR
1	C	396	ASP
1	C	400	GLU
1	C	404	LEU
1	C	407	SER
1	C	412	ARG
1	C	414	ASP
1	C	419	SER
1	C	422	LEU
1	C	431	LEU
1	C	433	PHE
1	C	441	ASP
1	C	442	LEU
1	C	457	TYR
1	C	458	SER
1	C	460	LEU
1	C	467	ILE
1	C	469	TRP
1	C	471	ASP
1	C	474	LYS
1	C	477	LEU
1	C	492	TYR
1	C	495	LYS
1	C	497	THR
1	C	498	HIS
1	C	501	TYR
1	C	504	LEU
1	C	506	LYS
1	C	509	ILE
1	C	516	GLU
1	C	522	SER
1	C	526	ILE
1	C	535	VAL
1	C	540	LEU
1	C	541	LEU
1	C	543	TYR
1	C	544	TYR
1	C	545	ILE
1	C	547	THR

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Mol	Chain	Res	Type
1	C	549	GLU
1	C	550	GLN
1	C	555	VAL
1	C	558	SER
1	C	559	VAL
1	C	563	ILE
1	C	565	GLU
1	C	569	ASN
1	C	573	VAL
1	C	580	ASP
1	C	587	THR
1	C	596	MET
1	C	597	ASP
1	C	599	TRP
1	C	605	VAL
1	C	613	GLN
1	C	614	ARG
1	C	618	LYS
1	C	621	GLU
1	C	625	GLN
1	C	627	LEU
1	C	640	LEU
1	C	642	ASN
1	C	644	ASN
1	C	652	THR
1	C	653	PHE
1	C	663	GLN
1	C	664	GLU
1	C	667	GLU
1	C	672	ILE
1	C	692	HIS
1	C	697	LYS
1	C	699	CYS
1	C	701	ASP
1	C	710	THR
1	C	713	GLN
1	C	720	LEU
1	C	732	CYS
1	C	753	HIS
1	C	754	MET
1	C	756	THR
1	C	758	LEU

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Mol	Chain	Res	Type
1	C	766	ARG
1	C	767	SER
1	C	774	LEU
1	C	777	VAL
1	C	782	ARG
1	C	787	GLN
1	C	788	PHE
1	C	793	SER
1	C	795	THR
1	C	797	TRP
1	C	800	GLN
1	C	811	VAL
1	C	824	PHE
1	C	825	LEU
1	C	838	GLN
1	C	845	VAL
1	C	849	ARG
1	C	850	THR
1	C	854	GLN
1	C	856	CYS
1	C	857	VAL
1	C	859	MET
1	C	865	ILE
1	C	867	THR
1	C	876	GLN
1	C	887	LYS
1	C	895	LEU
1	C	896	VAL
1	C	899	THR
1	C	901	LEU
1	C	912	PHE
1	C	914	LEU
1	C	915	GLU
1	C	923	LEU
1	C	928	ARG
1	C	935	LYS
1	C	936	ARG
1	C	940	SER
1	C	944	LEU
1	C	947	ARG
1	C	952	THR
1	C	953	ILE

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Mol	Chain	Res	Type
1	C	955	ARG
1	C	967	LEU
1	C	972	GLU
1	C	975	ARG
1	C	977	LEU
1	C	983	LEU
1	C	984	VAL
1	C	988	LEU
1	C	1001	THR
1	C	1002	HIS
1	C	1003	LEU
1	C	1007	SER
1	C	1011	GLU
1	C	1013	MET
1	C	1014	SER
1	C	1033	ILE
1	C	1055	SER
1	C	1056	ILE
1	C	1070	LYS
1	C	1078	LEU
1	C	1084	ARG
1	C	1089	VAL
1	C	1091	LYS
1	C	1098	ASN
1	C	1105	LEU
1	C	1107	LEU
1	C	1108	VAL
1	C	1110	ASN
1	C	1113	LEU
1	C	1127	ILE
1	C	1128	LYS
1	C	1129	LEU
1	C	1140	ASN
1	C	1141	SER
1	C	1164	ILE
1	C	1166	THR
1	C	1168	LEU
1	C	1175	LEU
1	C	1180	LEU
1	C	1183	GLN
1	C	1185	THR
1	C	1196	SER

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Mol	Chain	Res	Type
1	C	1200	LYS
1	C	1201	THR
1	C	1209	VAL
1	C	1212	LEU
1	C	1218	VAL
1	C	1227	PHE
1	C	1231	ASN
1	C	1236	ASP
1	C	1246	ARG
1	C	1259	LEU
1	C	1264	ILE
1	C	1279	ARG
1	C	1280	TYR
1	C	1301	SER
1	C	1302	LEU
1	C	1303	LEU
1	C	1306	GLN
1	C	1307	LEU
1	C	1308	ARG
1	C	1309	LEU
1	C	1311	MET
1	C	1323	LEU
1	C	1326	TYR
1	C	1330	ASP
1	C	1331	LYS
1	C	1332	ASN
1	C	1333	PHE
1	C	1334	LEU
1	C	1336	ARG
1	C	1338	VAL
1	C	1341	LEU
1	C	1346	LEU
1	C	1356	LEU
1	C	1358	THR
1	C	1361	VAL
1	C	1363	THR
1	C	1366	HIS
1	C	1367	LYS
1	C	1372	GLU
1	C	1374	VAL
1	C	1375	CYS
1	C	1397	SER

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Mol	Chain	Res	Type
1	C	1423	VAL
1	C	1433	SER
1	C	1450	PHE
1	C	1454	GLN
1	C	1464	LEU
1	C	1470	SER
1	C	1474	CYS
1	C	1475	VAL
1	C	1476	ARG
1	C	1479	ILE
1	C	1480	PHE
1	C	1483	PHE
1	C	1487	PHE
1	C	1488	LEU
1	C	1492	THR
1	C	1493	PHE
1	C	1494	THR
1	C	1500	ARG
1	C	1503	LYS
1	C	1504	GLN
1	C	1506	THR
1	C	1507	MET
1	C	1512	SER
1	C	1535	MET
1	C	1542	THR
1	C	1544	SER
1	C	1548	ARG
1	C	1549	LYS
1	C	1553	CYS
1	C	1566	THR
1	C	1577	TYR
1	C	1580	THR
1	C	1581	LEU
1	C	1585	TYR
1	C	1598	ILE
1	C	1602	LYS
1	C	1605	THR
1	C	1606	CYS
1	C	1616	GLN
1	C	1618	LEU
1	C	1626	GLN
1	C	1627	ILE

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Mol	Chain	Res	Type
1	C	1631	PHE
1	C	1636	ILE
1	C	1639	LEU
1	C	1650	ARG
1	C	1651	ASP
1	C	1652	THR
1	C	1655	SER
1	C	1663	ASN
2	D	29	THR
2	D	40	GLN
2	D	43	VAL
2	D	54	LEU
2	D	56	ILE
2	D	58	VAL
2	D	68	LEU
2	D	71	THR
2	D	74	ASP
2	D	82	LEU
2	D	86	THR
2	D	87	ILE
2	D	100	GLN
2	D	105	VAL
2	D	106	VAL
2	D	108	VAL
2	D	114	ARG
2	D	119	VAL
2	D	120	LEU
2	D	124	GLN
2	D	144	LEU
2	D	147	VAL
2	D	167	THR
2	D	171	ILE
2	D	175	SER
2	D	176	ASN
2	D	177	SER
2	D	179	ASP
2	D	183	PHE
2	D	190	ASP
2	D	191	LEU
2	D	196	THR
2	D	198	ARG
2	D	202	LYS

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Mol	Chain	Res	Type
2	D	208	GLU
2	D	214	PHE
2	D	216	VAL
2	D	217	ARG
2	D	219	TYR
2	D	220	VAL
2	D	221	LEU
2	D	223	SER
2	D	226	VAL
2	D	231	SER
2	D	234	PHE
2	D	243	PHE
2	D	258	GLU
2	D	263	VAL
2	D	264	LEU
2	D	278	ASP
2	D	280	LEU
2	D	285	ILE
2	D	291	LYS
2	D	296	ARG
2	D	297	ASP
2	D	298	THR
2	D	299	PHE
2	D	301	SER
2	D	306	LEU
2	D	315	TYR
2	D	317	SER
2	D	323	GLU
2	D	327	ASP
2	D	328	MET
2	D	344	GLN
2	D	345	ILE
2	D	348	THR
2	D	349	LYS
2	D	358	MET
2	D	368	ASN
2	D	379	VAL
2	D	382	GLU
2	D	386	SER
2	D	389	THR
2	D	390	THR
2	D	398	LEU

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Mol	Chain	Res	Type
2	D	400	LEU
2	D	404	LEU
2	D	414	ARG
2	D	416	ASN
2	D	422	ARG
2	D	427	THR
2	D	433	ILE
2	D	435	TYR
2	D	437	THR
2	D	449	ILE
2	D	460	LEU
2	D	466	VAL
2	D	469	ASN
2	D	472	SER
2	D	473	LEU
2	D	481	TYR
2	D	482	LEU
2	D	483	ILE
2	D	490	PHE
2	D	497	ARG
2	D	504	VAL
2	D	505	THR
2	D	511	THR
2	D	513	ASP
2	D	518	PHE
2	D	520	PHE
2	D	521	VAL
2	D	523	TYR
2	D	524	TYR
2	D	525	GLN
2	D	526	VAL
2	D	531	ILE
2	D	532	VAL
2	D	543	THR
2	D	544	CYS
2	D	555	LEU
2	D	556	ILE
2	D	558	MET
2	D	563	MET
2	D	567	LEU
2	D	586	VAL
2	D	588	ASN

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Mol	Chain	Res	Type
2	D	593	ILE
2	D	597	LYS
2	D	598	ILE
2	D	602	ILE
2	D	613	SER
2	D	615	GLN
2	D	629	THR
2	D	638	GLN
2	D	735	ASN
2	D	742	ASP
2	D	745	ILE
2	D	746	ILE
2	D	747	SER
2	D	764	GLU
2	D	769	GLN
2	D	773	SER
2	D	778	PHE
2	D	780	LEU
2	D	784	ILE
2	D	789	VAL
2	D	800	ILE
2	D	812	LYS
2	D	813	VAL
2	D	816	ILE
2	D	817	ASP
2	D	819	GLN
2	D	829	GLN
2	D	830	VAL
2	D	836	LEU
2	D	840	VAL
2	D	851	LEU
2	D	857	CYS
2	D	866	TYR
2	D	868	GLN
2	D	870	PHE
2	D	872	ILE
2	D	873	LYS
2	D	881	PRO
2	D	884	ILE
2	D	889	GLN
2	D	891	LEU
2	D	918	GLU

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Mol	Chain	Res	Type
2	D	920	VAL
2	D	925	VAL
2	D	926	THR
2	D	946	LYS
2	D	948	ARG
2	D	949	LYS
2	D	952	ASP
2	D	963	ILE
2	D	964	ILE
2	D	1273	LEU
2	D	1274	ASN
2	D	1278	THR
2	D	1279	ILE
2	D	1281	LEU
2	D	1291	ARG
2	D	1292	ILE
2	D	1301	ARG
2	D	1304	GLU
2	D	1305	THR
2	D	1308	ASN
2	D	1313	VAL
2	D	1322	THR
2	D	1324	THR
2	D	1330	ASN
2	D	1332	GLN
2	D	1344	HIS
2	D	1345	LEU
2	D	1346	ASN
2	D	1349	VAL
2	D	1350	GLU
2	D	1351	ASN
2	D	1365	LEU
2	D	1372	LEU
2	D	1378	THR
2	D	1380	THR
2	D	1388	THR
2	D	1396	ASP
2	D	1398	THR
2	D	1401	SER
2	D	1406	ARG
2	D	1423	VAL
2	D	1424	ILE

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Mol	Chain	Res	Type
2	D	1427	LEU
2	D	1429	LYS
2	D	1431	SER
2	D	1433	SER
2	D	1437	CYS
2	D	1438	LEU
2	D	1439	HIS
2	D	1442	ILE
2	D	1443	LEU
2	D	1448	VAL
2	D	1450	PHE
2	D	1451	ILE
2	D	1456	VAL
2	D	1464	LEU
2	D	1475	ASP
2	D	1480	LEU
2	D	1481	LEU
2	D	1490	CYS
2	D	1492	CYS
2	D	1495	GLU
2	D	1496	THR
2	D	1497	CYS
2	D	1500	LEU
2	D	1502	HIS
2	D	1504	GLU
2	D	1511	GLN
2	D	1516	CYS
2	D	1519	ASN
2	D	1526	THR
2	D	1535	ASP
2	D	1561	HIS
2	D	1566	GLN
2	D	1571	GLU
2	D	1582	LEU
2	D	1583	ILE
2	D	1584	TRP
2	D	1594	LYS
2	D	1598	SER
2	D	1599	TYR
2	D	1604	ASN
2	D	1606	TRP
2	D	1607	ILE

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Mol	Chain	Res	Type
2	D	1609	ARG
2	D	1614	ASP
2	D	1622	GLN
2	D	1623	LYS

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (139) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	80	GLN
1	A	97	ASN
1	A	139	GLN
1	A	242	ASN
1	A	257	ASN
1	A	288	GLN
1	A	298	GLN
1	A	355	ASN
1	A	391	ASN
1	A	472	ASN
1	A	473	HIS
1	A	483	ASN
1	A	550	GLN
1	A	569	ASN
1	A	613	GLN
1	A	692	HIS
1	A	706	ASN
1	A	785	GLN
1	A	787	GLN
1	A	800	GLN
1	A	854	GLN
1	A	875	HIS
1	A	876	GLN
1	A	894	HIS
1	A	1023	HIS
1	A	1029	ASN
1	A	1102	ASN
1	A	1112	GLN
1	A	1183	GLN
1	A	1234	HIS
1	A	1241	ASN
1	A	1268	ASN
1	A	1343	ASN
1	A	1366	HIS

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Mol	Chain	Res	Type
1	A	1550	GLN
1	A	1608	ASN
1	A	1658	GLN
2	B	40	GLN
2	B	65	GLN
2	B	124	GLN
2	B	152	HIS
2	B	176	ASN
2	B	187	ASN
2	B	312	HIS
2	B	333	GLN
2	B	337	HIS
2	B	344	GLN
2	B	417	HIS
2	B	469	ASN
2	B	525	GLN
2	B	528	ASN
2	B	588	ASN
2	B	615	GLN
2	B	735	ASN
2	B	769	GLN
2	B	819	GLN
2	B	829	GLN
2	B	869	GLN
2	B	889	GLN
2	B	901	GLN
2	B	921	GLN
2	B	1330	ASN
2	B	1341	ASN
2	B	1419	GLN
2	B	1473	HIS
2	B	1482	ASN
2	B	1501	ASN
2	B	1503	GLN
2	B	1562	GLN
2	B	1566	GLN
1	C	80	GLN
1	C	97	ASN
1	C	139	GLN
1	C	242	ASN
1	C	257	ASN
1	C	298	GLN

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Mol	Chain	Res	Type
1	C	355	ASN
1	C	391	ASN
1	C	472	ASN
1	C	473	HIS
1	C	483	ASN
1	C	550	GLN
1	C	569	ASN
1	C	613	GLN
1	C	692	HIS
1	C	706	ASN
1	C	785	GLN
1	C	787	GLN
1	C	800	GLN
1	C	854	GLN
1	C	875	HIS
1	C	876	GLN
1	C	894	HIS
1	C	1023	HIS
1	C	1029	ASN
1	C	1102	ASN
1	C	1112	GLN
1	C	1183	GLN
1	C	1234	HIS
1	C	1241	ASN
1	C	1268	ASN
1	C	1324	HIS
1	C	1366	HIS
1	C	1550	GLN
1	C	1608	ASN
1	C	1658	GLN
2	D	40	GLN
2	D	65	GLN
2	D	124	GLN
2	D	152	HIS
2	D	176	ASN
2	D	187	ASN
2	D	312	HIS
2	D	333	GLN
2	D	337	HIS
2	D	344	GLN
2	D	417	HIS
2	D	507	ASN

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Mol	Chain	Res	Type
2	D	525	GLN
2	D	528	ASN
2	D	588	ASN
2	D	615	GLN
2	D	735	ASN
2	D	769	GLN
2	D	819	GLN
2	D	829	GLN
2	D	869	GLN
2	D	889	GLN
2	D	901	GLN
2	D	921	GLN
2	D	1330	ASN
2	D	1341	ASN
2	D	1419	GLN
2	D	1473	HIS
2	D	1482	ASN
2	D	1501	ASN
2	D	1503	GLN
2	D	1562	GLN
2	D	1566	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 carbohydrates in this entry.

5.6 Ligand geometry [i](#)

6 ligands are modelled in this entry.

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
3	NAG	A	2003	1	14,14,15	0.59	0	15,19,21	2.30	4 (26%)
3	NAG	B	2001	2	14,14,15	0.82	1 (7%)	15,19,21	2.17	3 (20%)
3	NAG	B	2002	2	14,14,15	0.91	0	15,19,21	1.35	1 (6%)
3	NAG	C	2003	1	14,14,15	0.57	0	15,19,21	2.32	4 (26%)
3	NAG	D	2001	2	14,14,15	0.75	0	15,19,21	2.23	3 (20%)
3	NAG	D	2002	2	14,14,15	0.91	0	15,19,21	1.34	1 (6%)

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
3	NAG	A	2003	1	-	2/6/23/26	0/1/1/1
3	NAG	B	2001	2	-	0/6/23/26	0/1/1/1
3	NAG	B	2002	2	-	0/6/23/26	0/1/1/1
3	NAG	C	2003	1	-	2/6/23/26	0/1/1/1
3	NAG	D	2001	2	-	0/6/23/26	0/1/1/1
3	NAG	D	2002	2	-	0/6/23/26	0/1/1/1

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	B	2001	NAG	C1-C2	2.26	1.55	1.52

All (16) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	B	2002	NAG	O5-C1-C2	-4.33	105.45	111.47
3	D	2002	NAG	O5-C1-C2	-4.31	105.48	111.47
3	C	2003	NAG	C1-C2-N2	-3.17	105.07	110.49
3	A	2003	NAG	C1-C2-N2	-3.07	105.25	110.49
3	D	2001	NAG	C2-N2-C7	-2.54	119.24	122.94
3	B	2001	NAG	C2-N2-C7	-2.35	119.52	122.94
3	C	2003	NAG	C3-C4-C5	3.00	115.50	110.22

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A	2003	NAG	C3-C4-C5	3.03	115.56	110.22
3	D	2001	NAG	O5-C1-C2	3.99	117.02	111.47
3	A	2003	NAG	C4-C3-C2	4.24	117.23	111.02
3	B	2001	NAG	O5-C1-C2	4.31	117.46	111.47
3	C	2003	NAG	C4-C3-C2	4.36	117.41	111.02
3	C	2003	NAG	C1-O5-C5	5.59	119.87	112.17
3	A	2003	NAG	C1-O5-C5	5.62	119.91	112.17
3	B	2001	NAG	C1-O5-C5	6.09	120.56	112.17
3	D	2001	NAG	C1-O5-C5	6.48	121.10	112.17

There are no chirality outliers.

All (4) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
3	C	2003	NAG	C8-C7-N2-C2
3	A	2003	NAG	C8-C7-N2-C2
3	A	2003	NAG	O7-C7-N2-C2
3	C	2003	NAG	O7-C7-N2-C2

There are no ring outliers.

4 monomers are involved in 6 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	A	2003	NAG	2	0
3	B	2001	NAG	1	0
3	C	2003	NAG	2	0
3	D	2001	NAG	1	0

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

6 Fit of model and data

6.1 Protein, DNA and RNA chains

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

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
1	A	1627/1676 (97%)	0.03	38 (2%) 61 53	90, 187, 312, 465	0
1	C	1627/1676 (97%)	0.02	33 (2%) 65 58	97, 186, 299, 486	0
2	B	1225/1642 (74%)	-0.00	24 (1%) 65 58	107, 174, 261, 395	0
2	D	1225/1642 (74%)	-0.00	18 (1%) 74 66	114, 181, 263, 371	0
All	All	5704/6636 (85%)	0.01	113 (1%) 65 58	90, 183, 291, 486	0

All (113) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
2	D	1355	ASN	5.2
1	A	1585	TYR	5.0
2	B	155	SER	5.0
1	A	1622	LYS	5.0
2	B	156	LYS	4.9
1	A	1650	ARG	4.9
1	A	1676	CYS	4.9
1	C	1676	CYS	4.6
1	A	94	GLY	4.4
1	C	1622	LYS	4.3
2	D	155	SER	4.3
1	C	317	ASP	4.1
2	B	111	PRO	4.1
2	D	154	THR	3.8
2	B	735	ASN	3.7
1	A	1592	ALA	3.5
1	C	240	TYR	3.5
1	C	858	LYS	3.5
1	A	1537	GLU	3.4
1	C	1534	GLN	3.3
1	C	882	LYS	3.2

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Mol	Chain	Res	Type	RSRZ
2	B	154	THR	3.2
1	C	271	ILE	3.2
1	A	273	GLU	3.1
1	A	314	SER	3.1
2	B	1355	ASN	3.1
1	C	874	ASP	3.1
2	B	157	MET	3.0
2	B	74	ASP	3.0
2	D	156	LYS	2.9
2	D	735	ASN	2.9
1	C	1526	LYS	2.9
1	A	1597	GLU	2.9
1	A	1526	LYS	2.9
1	C	315	LEU	2.9
1	C	1550	GLN	2.8
1	A	95	GLY	2.8
2	D	120	LEU	2.8
1	A	882	LYS	2.8
2	D	1360	LYS	2.8
2	B	93	GLU	2.8
1	C	94	GLY	2.8
2	B	1353	HIS	2.7
1	A	1651	ASP	2.7
2	B	123	TYR	2.7
2	B	95	SER	2.7
2	B	1360	LYS	2.6
1	A	1598	ILE	2.6
1	A	1586	LYS	2.6
1	C	93	PRO	2.6
1	C	272	ARG	2.6
1	A	311	SER	2.6
2	B	424	ARG	2.5
2	D	641	ALA	2.5
1	A	1587	THR	2.5
1	C	318	LEU	2.5
1	A	661	ASP	2.5
1	A	1588	GLY	2.5
1	C	1551	THR	2.5
1	A	1525	CYS	2.5
1	A	1635	TYR	2.5
1	A	1590	ALA	2.5
2	D	157	MET	2.4

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Mol	Chain	Res	Type	RSRZ
1	A	1674	ASN	2.4
2	D	98	SER	2.4
1	A	1649	PRO	2.4
1	A	1572	ASN	2.4
2	D	65	GLN	2.4
1	C	246	PHE	2.3
1	C	1623	GLU	2.4
1	A	283	MET	2.3
1	C	301	PHE	2.3
2	B	1533	GLU	2.3
1	A	313	TYR	2.3
2	D	66	LYS	2.2
2	D	99	ARG	2.2
1	A	281	GLU	2.2
1	C	1585	TYR	2.2
2	B	52	LYS	2.2
2	B	1374	GLU	2.2
2	B	1495	GLU	2.2
1	A	855	PHE	2.2
1	C	270	GLY	2.2
2	B	153	ASN	2.2
1	A	1534	GLN	2.1
1	C	887	LYS	2.1
1	A	1544	SER	2.1
2	B	237	ILE	2.1
1	C	857	VAL	2.1
2	B	902	GLU	2.1
2	D	648	ALA	2.1
2	D	52	LYS	2.1
1	C	321	LYS	2.1
2	D	1354	LEU	2.1
1	C	1675	GLY	2.1
2	B	1532	GLU	2.1
1	C	273	GLU	2.1
1	A	920	LYS	2.1
2	B	1466	GLU	2.1
1	A	1557	ILE	2.1
2	B	67	THR	2.1
1	A	1620	MET	2.1
1	C	1556	GLU	2.1
2	D	158	ASN	2.1
2	D	308	GLU	2.1

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Mol	Chain	Res	Type	RSRZ
1	A	597	ASP	2.0
1	C	682	LYS	2.0
1	C	1380	LYS	2.0
1	C	1558	ALA	2.0
1	A	1556	GLU	2.0
1	C	1611	LEU	2.0
1	C	1177	GLU	2.0
1	A	1579	ALA	2.0

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

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

6.3 Carbohydrates [i](#)

There are no carbohydrates in this entry.

6.4 Ligands [i](#)

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

Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
3	NAG	B	2002	14/15	0.45	0.43	2.56	321,327,336,339	0
3	NAG	D	2002	14/15	0.73	0.47	1.42	289,293,305,308	0
3	NAG	C	2003	14/15	0.72	0.35	-	260,272,284,287	0
3	NAG	A	2003	14/15	0.64	0.38	-	284,286,289,289	0
3	NAG	D	2001	14/15	0.80	0.30	-	285,296,309,310	0
3	NAG	B	2001	14/15	0.78	0.26	-	275,285,305,313	0

6.5 Other polymers [i](#)

There are no such residues in this entry.