



Full wwPDB X-ray Structure Validation Report ⓘ

May 12, 2020 – 11:25 pm BST

PDB ID : 2PFF
Title : Structural Insights of Yeast Fatty Acid Synthase
Authors : Xiong, Y.; Lomakin, I.B.; Steitz, T.A.
Deposited on : 2007-04-04
Resolution : 4.00 Å(reported)

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

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

A user guide is available at

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

with specific help available everywhere you see the ⓘ symbol.

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

MolProbity	:	4.02b-467
Xtriage (Phenix)	:	1.13
EDS	:	2.11
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac	:	5.8.0158
CCP4	:	7.0.044 (Gargrove)
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.11

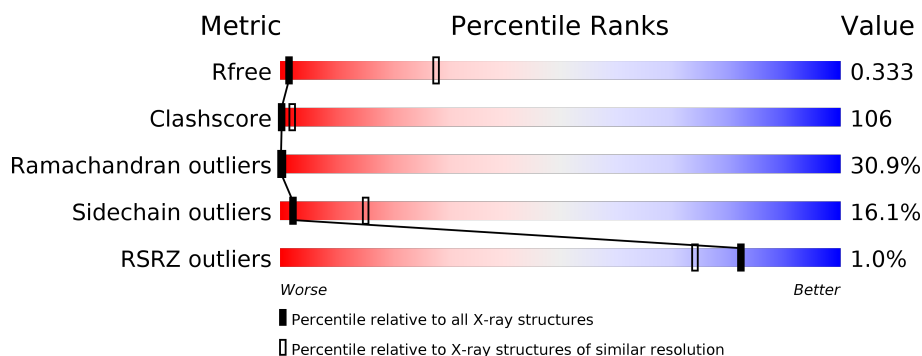
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 4.00 Å.

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





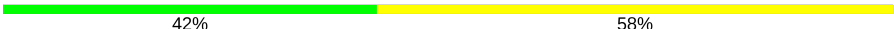
Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
R_{free}	130704	1087 (4.30-3.70)
Clashscore	141614	1148 (4.30-3.70)
Ramachandran outliers	138981	1108 (4.30-3.70)
Sidechain outliers	138945	1099 (4.30-3.70)
RSRZ outliers	127900	1028 (4.34-3.66)

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

Mol	Chain	Length	Quality of chain
1	A	1688	
1	D	1688	
1	G	1688	
2	B	2006	
2	E	2006	
2	H	2006	

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Mol	Chain	Length	Quality of chain
3	C	65	 48% 52%
3	F	65	 45% 55%
3	I	65	 42% 58%

2 Entry composition

There are 3 unique types of molecules in this entry. The entry contains 71862 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 Fatty acid synthase subunit alpha.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	1683	Total	C	N	O	S	0	0	0
			11319	7070	2007	2205	37			
1	D	1683	Total	C	N	O	S	0	0	0
			11319	7070	2007	2205	37			
1	G	1683	Total	C	N	O	S	0	0	0
			11319	7070	2007	2205	37			

- Molecule 2 is a protein called Fatty acid synthase subunit beta.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	B	2006	Total	C	N	O	S	0	0	0
			12310	7625	2253	2416	16			
2	E	2006	Total	C	N	O	S	0	0	0
			12310	7625	2253	2416	16			
2	H	2006	Total	C	N	O	S	0	0	0
			12310	7625	2253	2416	16			

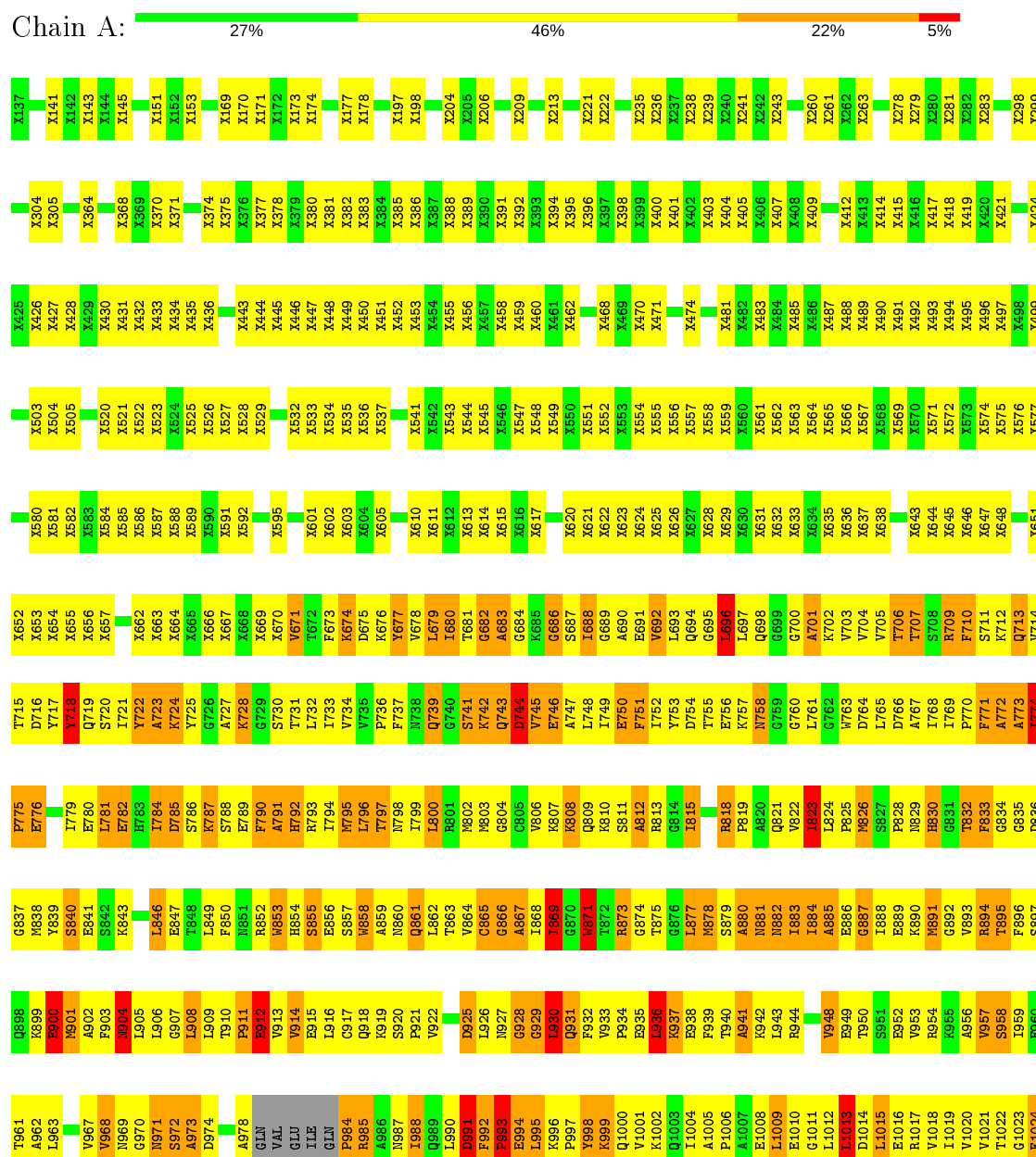
- Molecule 3 is a protein called Tail protein.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
3	C	65	Total	C	N	O	0	0	0
			325	195	65	65			
3	F	65	Total	C	N	O	0	0	0
			325	195	65	65			
3	I	65	Total	C	N	O	0	0	0
			325	195	65	65			

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: Fatty acid synthase subunit alpha



- Molecule 1: Fatty acid synthase subunit alpha

X374	X375	X376	X377	X378	X379	X380	X381	X382	X383	X384	X385	X386	X387	X388	X389	X390	X391	X392	X393	X394	X395	X396	X397	X398	X399	X400	X401	X402	X403	X404	X405	X406	X407	X408	X409	X410	X411	X412	X413	X414	X415	X416	X417	X418	X419	X420	X421	X422	X423	X424	X425	X426	X427	X428	X429	X430	X431	X432	X433	X434	X435	X436	X437	X438	X439	X440	X441	X442	X443	X444	X445	X446	X447	X448	X449	X450	X451	X452	X453	X454	X455	X456	X457	X458	X459	X460	X461	X462	X463	X464	X465	X466	X467	X468	X469	X470	X471	X472	X473	X474	X475	X476	X477	X478	X479	X480	X481	X482	X483	X484	X485	X486	X487	X488	X489	X490	X491	X492	X493	X494	X495	X496	X497	X498	X499	X500	X501	X502	X503	X504	X505	X506	X507	X508	X509	X510	X511	X512	X513	X514	X515	X516	X517	X518	X519	X520	X521	X522	X523	X524	X525	X526	X527	X528	X529	X530	X531	X532	X533	X534	X535	X536	X537	X538	X539	X540	X541	X542	X543	X544	X545	X546	X547	X548	X549	X550	X551	X552	X553	X554	X555	X556	X557	X558	X559	X560	X561	X562	X563	X564	X565	X566	X567	X568	X569	X570	X571	X572	X573	X574	X575	X576	X577	X578	X579	X580	X581	X582	X583	X584	X585	X586	X587	X588	X589	X590	X591	X592	X593	X594	X595	X596	X597	X598	X599	X600	X601	X602	X603	X604	X605	X606	X607	X608	X609	X610	X611	X612	X613	X614	X615	X616	X617	X618	X619	X620	X621	X622	X623	X624	X625	X626	X627	X628	X629	X630	X631	X632	X633	X634	X635	X636	X637	X638	X639	X640	X641	X642	X643	X644	X645	X646	X647	X648	X649	X650	X651	X652	X653	X654	X655	X656	X657	X658	X659	X660	X661	X662	X663	X664	X665	X666	X667	X668	X669	X670	X671	X672	X673	X674	X675	X676	X677	X678	X679	X680	X681	X682	X683	X684	X685	X686	X687	X688	X689	X690	X691	X692	X693	X694	X695	X696	X697	X698	X699	X700	X701	X702	X703	X704	X705	X706	X707	X708	X709	X710	X711	X712	X713	X714	X715	X716	X717	X718	X719	X720	X721	X722	X723	X724	X725	X726	X727	X728	X729	X730	X731	X732	X733	X734	X735	X736	X737	X738	X739	X740	X741	X742	X743	X744	X745	X746	X747	X748	X749	X750	X751	X752	X753	X754	X755	X756	X757	X758	X759	X760	X761	X762	X763	X764	X765	X766	X767	X768	X769	X770	X771	X772	X773	X774	X775	X776	X777	X778	X779	X780	X781	X782	X783	X784	X785	X786	X787	X788	X789	X790	X791	X792	X793	X794	X795	X796	X797	X798	X799	X800	X801	X802	X803	X804	X805	X806	X807	X808	X809	X810	X811	X812	X813	X814	X815	X816	X817	X818	X819	X820	X821	X822	X823	X824	X825	X826	X827	X828	X829	X830	X831	X832	X833	X834	X835	X836	X837	X838	X839	X840	X841	X842	X843	X844	X845	X846	X847	X848	X849	X850	X851	X852	X853	X854	X855	X856	X857	X858	X859	X860	X861	X862	X863	X864	X865	X866	X867	X868	X869	X870	X871	X872	X873	X874	X875	X876	X877	X878	X879	X880	X881	X882	X883	X884	X88
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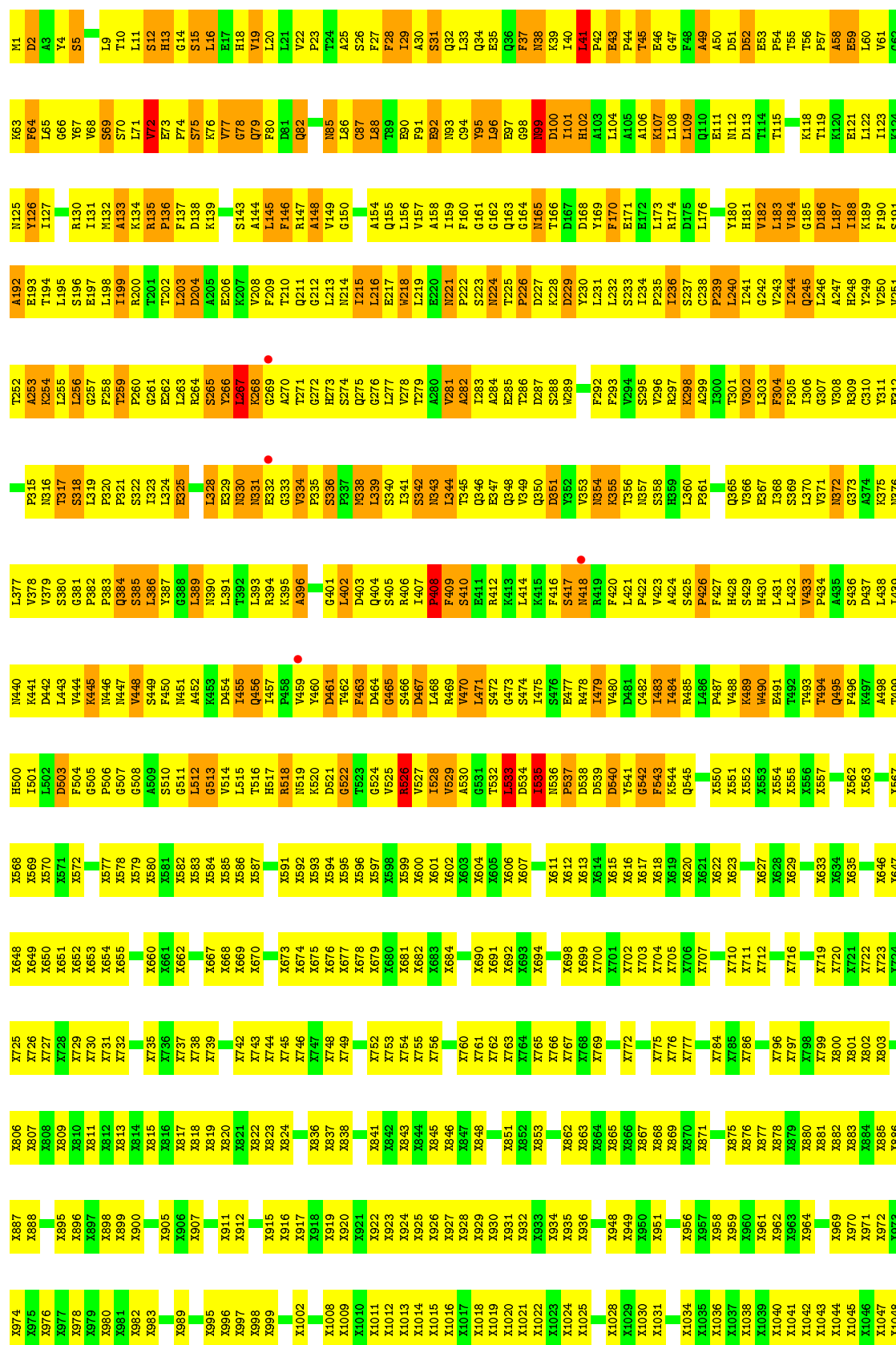


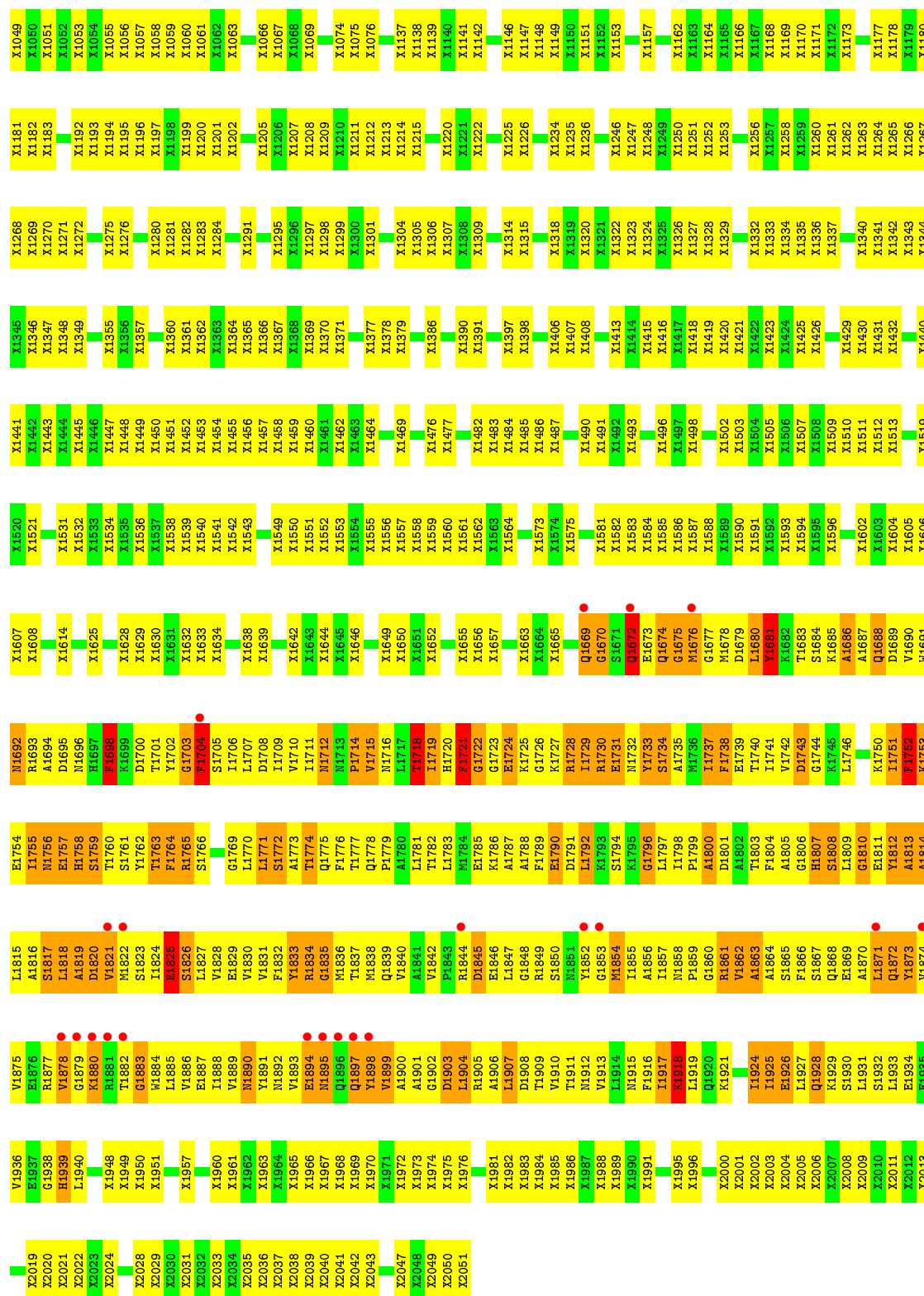
E841	E780	Q719	X655	X581	X504	X430	X368	X137	X1778	X1696	V1636	F1576	R1516	T1454
S842	L781	S720	X656	X582	X505	X431	X369	X141	X1779	L1697	R1637	Q1577	D1516	R1485
K843	E782	I721	X657	X583	X506	X432	X370	X142	X1780	F1698	V1638	F1578	P1517	R1486
S845	L844	A723	X662	X584	X520	X433	X371	X143	X1781	F1699	V1639	F1579	R1518	E1487
L846	D785	K724	X663	X585	X521	X434	X372	X144	X1782	S1700	S1640	T1581	K1519	Q1458
E847	S786	V725	X664	X586	X522	X435	X373	X145	X1783	K1701	R1641	T1582	A1520	Q1459
L848	E787	G726	X665	X587	X523	X436	X374	X146	X1784	E1702	T1642	H1583	P1521	K1460
L849	S788	A727	X666	X588	X524	X437	X375	X147	X1793	H1703	S1643	H1584	L1522	D1461
F850	E789	K728	X667	X589	X525	X438	X376	X148	X1794	A1704	F1644	P1585	G1523	V1462
N851	F790	G729	X668	X590	X526	X439	X377	X149	X1795	P1705	K1645	K1586	G1524	V1463
L852	R791	S730	X669	X591	X527	X440	X378	X150	X1796	T1706	F1646	K1587	A1525	N1465
L853	H792	T731	X670	X592	X528	X441	X379	X151	X1797	D1707	G1647	A1587	L1526	N1466
H854	R793	L732	X671	X593	X529	X442	X380	X152	X1798	K1708	Q1648	E1588	A1527	E1466
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E856	T795	V734	X673	X595	X531	X444	X382	X154	X1811	E1710	G1650	A1590	Y1529	E1468
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L859	H798	F737	X676	X598	X534	X447	X385	X157	X1814	D1713	A1653	M1593	T1532	K1471
N860	T799	K738	X677	X599	X535	X448	X386	X158	X1826	V1714	V1654	N1594	I1533	L1472
Q861	L800	M739	X678	X600	X536	X449	X387	X159	X1827	Y1715	V1655	G1595	D1534	E1473
L862	R801	G740	X679	X601	X537	X450	X388	X160	X1828	L1716	V1656	A1596	L1535	A1474
T863	M802	S741	X680	X602	X538	X451	X389	X161	X1853	D1717	H1657	L1597	L1536	E1475
V864	G803	K742	X681	X603	X539	X452	X390	X162	X1857	P1718	P1658	Q1598	G1537	E1476
Q865	G804	Q743	X682	X604	X540	X453	X391	X163	X1858	L1719	D1659	I1599	V1538	T1477
G866	C805	D744	X683	X605	X541	X454	X392	X164	X1859	A1720	Y1660	L1600	A1539	P1478
A867	V806	V745	X684	X606	X542	X455	X393	X165	X1860	R1721	L1661	M1601	S1540	S1479
L868	K807	E746	X685	X607	X543	X456	X394	X166	X1861	Y1662	Y1662	S1602	F1541	E1480
L869	R808	A747	X686	X608	X544	X457	X395	X167	X1862	G1663	A1664	G1603	D1481	D1481
G870	Q809	L748	X687	X609	X545	X458	X396	X168	X1863	K1727	L1665	T1605	G1543	Q1482
N871	K810	I749	X688	X610	X546	X459	X397	X169	X1868	G1729	T1666	P1606	T1544	F1485
T872	S811	E750	X689	X611	X547	X460	X398	X170	X1872	S1730	E1667	G1607	S1545	L1486
R873	A812	F751	X690	X612	X548	X461	X399	X171	X1873	L1731	D1668	N1608	T1546	L1487
G874	R813	I752	X691	X613	X549	X462	X400	X172	X1881	T1732	Y1670	R1609	K1547	E1488
T875	G814	V753	X692	X614	X550	X463	X401	X173	X1885	F1733	M1671	N1549	N1549	R1489
G876	I815	D754	X693	X615	X551	X464	X402	X174	X1886	M1734	E1672	D1612	D1550	T1490
L877	C816	T755	X694	X616	X552	X465	X403	X175	X1887	S1735	Y1673	N1613	K1551	R1491
M878	R818	E756	X695	X617	X553	X466	X404	X176	X1888	K1736	Y1674	N1614	M1552	E1492
S879	P819	K757	X696	X618	X554	X467	X405	X177	X1889	N1737	A1675	D1615	E1553	L1493
N880	A820	N758	X697	X619	X555	X468	X406	X178	X1890	Q1738	K1676	T1616	S1554	H1494
N881	Q821	G759	X698	X620	X556	X469	X407	X179	X1891	S1739	V1677	I1617	A1495	N1495
N882	V822	G760	X699	X621	X557	X470	X408	X180	X1892	D1741	S1678	L1618	T1556	E1496
I883	V823	L761	X700	X622	X558	X471	X409	X181	X1893	K1742	A1679	E1619	I1557	A1497
L884	L824	G762	X701	X623	X559	X472	X410	X182	X1894	S1743	R1680	Q1620	M1558	E1498
P885	P825	W763	X702	X624	X560	X473	X411	X183	X1895	X1744	K1682	F1621	E1559	S1499
E886	M826	D764	X703	X625	X561	X474	X412	X184	X1896	X1745	E1683	E1622	M1560	Q1500
G887	S827	L765	X704	X626	X562	X475	X413	X185	X1897	X1746	S1683	Y1623	M1561	L1501
I888	P828	D766	X705	X627	X563	X476	X414	X186	X1898	X1747	A1684	V1624	K1562	R1502
N889	N829	A767	X706	X628	X564	X477	X415	X187	X1899	X1748	Y1685	L1625	H1563	A1503
H890	H830	I768	X707	X629	X565	X478	X416	X188	X1900	X1749	K1686	Y1626	L1564	A1504
M891	G831	I769	X708	X630	X566	X479	X417	X189	X1901	X1750	F1687	P1627	Q1505	Q1506
S892	T832	P770	X709	X631	X567	X480	X418	X190	X1902	X1751	H1688	S1628	R1507	Q1507
V893	F833	F771	X710	X632	X568	X481	X419	X191	X1903	X1752	F1689	S1629	G1509	W1508
G894	G834	A772	X711	X633	X569	X482	X420	X192	X1904	X1753	M1690	T1630	M1570	N1510
T895	G835	A773	X712	X634	X570	X483	X421	X193	X1905	X1754	G1691	T1631	P1571	N1510
N896	S836	I774	X713	X635	X571	X484	X422	X194	X1906	X1755	M1692	K1632	V1572	D1511
F896	D836	V775	X714	X636	X572	X485	X423	X195	X1907	X1756	L1693	T1633	F1573	N1512
S897	G837	E776	X715	X637	X573	X486	X424	X196	X1908	X1757	Y1694	D1634	G1574	Y1513
Q898	M838	E776	X716	X638	X574	X487	X425	X197	X1909	X1758	M1695	G1635	V1575	K1514
K899	Y839	I779	X717	X639	X575	X488	X426	X198	X1910	X1759	N1696	G1636	N1576	
E900	S840		X718	X640	X576	X489	X427	X199	X1911	X1760	M1697	G1637	P1577	
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				X642	X578	X491	X429	X201	X1913	X1762	M1699	K1639	V1579	
				X643	X579	X492	X430	X202	X1914	X1763	M1700	L1640	N1580	
				X644	X580	X493	X431	X203	X1915	X1764	M1701	G1641	P1581	
				X645		X494	X432	X204	X1916	X1765	M1702	H1642	N1581	
				X646		X495	X433	X205	X1917	X1766	M1703	L1643	P1582	
				X647		X496	X434	X206	X1918	X1767	M1704	G1644	N1582	
				X648		X497	X435	X207	X1919	X1768	M1705	H1645	P1583	
				X649		X498	X436	X208	X1920	X1769	M1706	L1646	N1584	
				X650		X499	X437	X209	X1921	X1770	M1707	G1647	P1585	
				X651		X500	X438	X210	X1922	X1771	M1708	H1648	Q1506	
				X652		X501	X439	X211	X1923	X1772	M1709	L1649	R1507	
				X653		X502	X440	X212	X1924	X1773	M1710	G1650	Q1508	
				X654		X503	X441	X213	X1925	X1774	M1711	H1651	N1509	
							X442	X214	X1926	X1775	M1712	L1652	P1510	
							X443	X215	X1927	X1776	M1713	G1653	N1511	
							X444	X216	X1928	X1777	M1714	H1654	D1512	
							X445	X217	X1929	X1778	M1715	L1655	F1513	
							X446	X218	X1930	X1779	M1716	G1656	Y1514	
							X447	X219	X1931	X1780	M1717	H1657	N1515	
							X448	X220	X1932	X1781	M1718	L1658	P1516	
							X449	X221	X1933	X1782	M1719	G1659	Q1517	
							X450	X222	X1934	X1783	M1720	A1600	S1540	
							X451	X223	X1935	X1784	M1721	L1601	T1490	
							X452	X224	X1936	X1785	M1722	G1602	D1481	
							X453	X225	X1937	X1786	M1723	H1603	Q1482	
							X454	X226	X1938	X1787	M1724	T1604	F1483	
							X455	X227	X1939	X1788	M1725	L1605	N1484	
							X456	X228	X1940	X1789	M1726	G1606	P1485	
							X457	X229	X1941	X1790	M1727	H1607	T1486	
							X458	X230	X1942	X1791	M1728	N1608	K1487	
							X459	X231	X1943	X1792	M1729	A1609	E1488	
							X460	X232	X1944	X1793	M1730	M1610	R1489	
							X461	X233	X1945	X1794	M1731	D1550	T1490	
							X462	X234	X1946	X1795	M1732	K1551	R1491	
							X463	X235	X1947	X1796	M1733	M1552	E1492	
							X464	X236	X1948	X1797	M1734	E1553	L1493	
							X465	X237	X1949	X1798	M1735	S1554	H1494	
							X466	X238	X1950	X1799	M1736	A1495	N1495	
							X467	X239	X1951	X1800	M1737	T1556	E1496	
							X468	X240	X1952	X1801	M1738	I1557	A1497	
							X469	X241	X1953	X1802	M1739	M1558	E1498	

X1773	I1693	T1633	I1573	F1512	Q1451	A1390	G1330	V1270	P1210	D1150	D1088	P1029	X1773
X1778	Y1694	D1634	G1574	Y1513	L1452	D1391	G1331	Q1271	I1211	K1151	V1089	P1028	X1778
X1779	M1695	G1635	F1575	L1453	T1453	L1392	Y1332	M1272	T1212	Y1152	K1090	W1030	X1779
X1780	K1696	V1636	F1576	R1515	T1454	A1393	D1333	D1273	T1213	D1153	A1091	G1031	X1780
X1781	L1697	R1637	Q1577	P1517	R1455	L1394	D1334	I1274	F1214	F1154	Y1092	S1032	X1781
X1782	L1698	K1638	K1578	P1518	R1456	K1395	F1335	L1275	V1215	F1155	Y1093	A1033	X1782
X1783	L1699	V1639	F1579	R1518	K1457	M1396	Q1336	Q1276	L1216	E1156	E1094	R1034	X1783
X1784	S1700	S1640	L1580	T1519	Q1458	G1397	E1337	D1277	V1217	L1157	T1095	T1036	X1784
X1793	K1701	T1641	T1581	A1520	Q1459	V1398	E1338	S1278	S1218	P1158	S1096	R1036	X1793
X1794	H1702	T1642	G1582	P1521	K1460	P1399	F1339	F1279	V1219	E1159	L1097	W1037	X1794
X1795	A1703	S1643	H1583	L1522	D1461	I1400	S1340	I1280	T1220	T1160	L1098	E1038	X1795
X1799	P1705	F1644	P1584	G1524	V1462	Y1401	F1341	H1281	E1221	G1161	E1099	M1039	X1799
X1811	L1706	G1645	K1585	G1525	E1464	I1403	F1343	T1282	A1222	E1162	H1100	E1040	X1811
X1812	T1707	F1647	A1587	L1526	T1465	V1404	G1344	S1284	I1224	S1164	G1102	F1042	X1812
X1813	D1708	K1648	A1588	A1527	E1466	A1405	N1346	M1286	G1226	K1166	H1104	E1044	X1813
X1826	L1709	K1649	G1589	Y1528	L1467	M1406	K1347	V1287	G1227	L1167	L1105	F1045	X1826
X1827	E1711	G1650	A1590	F1529	E1468	A1407	K1348	M1288	I1228	K1168	L1106	S1046	X1827
X1853	E1712	G1651	M1591	G1530	A1469	A1408	T1349	M1289	T1229	K1169	E1107	L1047	X1853
X1857	D1713	Q1652	M1592	L1531	L1470	T1409	T1350	L1290	D1230	G1170	P1108	E1048	X1857
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X1888	P1719	P1658	Q1598	G1537	E1476	S1417	E1385	S1295	Y1235	T1175	G1113	M1053	X1888
X1891	L1720	D1659	L1599	Y1538	L1477	V1418	F1356	G1296	K1236	P1176	E0994	A1054	X1891
X1896	A1720	L1660	A1539	F1537	P1478	A1418	F1357	P1297	Y1237	K1177	N1115	E0994	X1896
X1897	L1721	L1661	N1601	S1540	S1479	P1419	H1388	I1298	V1238	A1178	K1056	G1049	X1897
X1898	Y1722	Y1662	S1602	F1541	E1480	A1420	H1389	K1299	H1239	L1179	E1117	M1057	X1898
X1899	L1723	G1663	G1603	H1542	D1481	P1421	R1360	T1300	V1240	R1180	K1118	G1058	X1899
X1901	K1727	A1664	I1604	G1543	Q1482	G1422	T1361	P1301	S1241	F1181	K1119	F1059	X1901
X1902	S1728	L1665	T1605	T1544	Q1483	K1423	P1362	V1302	E1242	D1182	E1120	I1060	X1902
X1903	L1729	T1666	F1607	S1545	L1486	G1424	A1363	G1303	V1243	R1183	M1121	C1061	X1903
X1904	S1730	E1667	T1546	L1487	F1486	T1425	E1364	A1304	G1244	L1184	I1122	Y1062	X1904
X1905	L1731	D1668	N1608	K1547	L1487	L1426	M1365	C1305	M1245	V1185	G1064	H1063	X1905
X1906	T1732	R1669	R1609	A1548	E1488	T1427	S1366	A1306	G1246	A1186	I1126	M1064	X1906
X1907	L1733	Y1670	N1610	M1549	E1489	T1428	R1367	T1307	S1247	G1187	V1127	G1065	X1907
X1908	M1734	M1671	D1611	D1550	T1490	A1429	P1368	S1308	G1248	Q1188	E1128	P1066	X1908
X1909	S1735	E1672	K1551	K1552	E1491	R1430	A1369	V1309	S1249	I1189	E1129	L1067	X1909
X1910	K1736	Y1673	N1613	N1552	E1492	E1431	T1370	E1310	M1251	P1190	D1130	K1068	X1910
X1911	L1737	Y1674	V1614	E1553	I1493	H1432	T1371	S1311	M1251	T1191	L1131	G1069	X1911
X1912	Y1738	A1675	D1615	S1554	H1494	H1433	T1372	V1312	G1252	G1192	E1132	R1070	X1912
X1913	Q1739	K1676	K1616	A1555	N1495	S1434	R1373	D1313	G1253	M1193	P1133	P1071	X1913
X1914	S1740	V1677	L1617	T1556	E1496	S1435	H1374	I1314	V1254	N1194	F1134	Y1072	X1914
X1915	D1742	S1678	L1618	I1557	A1497	V1436	G1375	G1315	S1255	A1195	E1135	T1073	X1915
X1916	L1743	A1679	E1619	N1558	E1498	K1437	F1376	V1316	A1256	K1196	A1136	G1074	X1916
X1917	S1744	R1680	Q1620	E1559	S1499	Y1438	M1377	E1317	L1257	T1197	S1137	W1075	X1917
X1918	Y1744	E1681	F1621	M1560	Q1500	A1439	E1378	T1318	R1258	Y1198	K1138	V1076	X1918
X1919	X1745	K1682	E1622	M1561	L1501	S1440	A1379	I1319	G1259	G1199	E1139	D1077	X1919
X1920	L1746	S1683	Y1623	K1562	R1502	P1441	Q1380	L1320	M1260	I1200	T1140	S1078	X1920
X1921	X1747	A1684	V1624	H1563	A1503	M1442	S1321	S1321	F1261	S1201	A1141	K1079	X1921
X1922	L1748	Y1685	L1625	L1564	A1504	L1443	A1382	G1322	R1262	D1202	E1142	T1080	X1922
X1923	X1749	K1686	Y1626	G1565	Q1505	N1444	G1383	K1323	D1263	D1203	Q1143	K1081	X1923
X1924	L1750	P1687	P1628	R1566	Q1507	M1445	I1394	A1324	R1264	I1204	F1144	E1082	X1924
X1925	X1751	F1688	S1628	K1566	Q1507	K1446	Q1385	R1325	F1265	K1145	T1105	P1083	X1925
X1926	X1754	H1689	K1629	G1569	W1508	Y1447	I1386	I1326	R1266	S1206	H1146	V1084	X1926
X1927	L1755	L1690	T1630	N1570	G1509	R1448	I1387	G1327	D1267	Q1207	E1147	D1085	X1927
X1928	X1756	G1691	L1631	L1510	E1509	R1449	M1388	T1328	E1268	V1208	A1025	E1026	X1928
X1929	L1762	M1692	K1632	V1572	D1511	R1450	Q1389	V1329	P1269	D1209	G1149	K1087	X1929

• Molecule 2: Fatty acid synthase subunit beta

Chain B:  34% 54% 11%



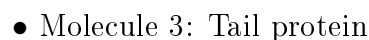


● Molecule 2: Fatty acid synthase subunit beta

X973	X974	X975	X976	X977	X978	X982	X983	X989	X995	X996	X997	X998	X1002	X1008	X1009	X1010	X1011	X1012	X1013	X1014	X1015	X1016	X1017	X1018	X1019	X1020	X1021	X1022	X1023	X1024	X1025	X1028	X1029	X1030	X1031	X1034	X1035	X1036	X1037	X1038	X1039	X1040	X1041	X1042	X1043	X1044	X1045	X1046	X1047	X1048	X1049	X1050
X897	X898	X899	X900	X905	X906	X907	X911	X912	X915	X916	X917	X918	X919	X920	X921	X922	X923	X924	X925	X926	X927	X928	X929	X930	X931	X932	X933	X934	X935	X936	X939	X946	X947	X948	X949	X950	X951	X956	X957	X958	X959	X960	X961	X962	X963	X964	X965	X966	X969	X970	X971	X972
X809	X810	X811	X812	X813	X814	X815	X816	X817	X818	X819	X820	X821	X822	X823	X824	X825	X836	X841	X842	X843	X844	X845	X846	X847	X848	X851	X852	X853	X862	X863	X864	X865	X866	X867	X868	X869	X870	X871	X875	X876	X877	X878	X879	X880	X881	X882	X883	X884	X887	X888	X895	X896
X726	X727	X728	X729	X730	X731	X732	X735	X736	X737	X738	X739	X742	X743	X744	X745	X746	X747	X748	X749	X752	X753	X754	X755	X756	X760	X761	X762	X763	X764	X765	X766	X767	X768	X769	X770	X771	X772	X775	X776	X777	X784	X796	X797	X798	X799	X800	X801	X802	X803	X806	X807	X808
X650	X651	X652	X653	X654	X655	X656	X657	X660	X661	X662	X667	X668	X669	X670	X674	X675	X676	X677	X678	X679	X680	X681	X682	X683	X684	X685	X690	X691	X692	X693	X694	X698	X699	X700	X701	X702	X703	X704	X705	X706	X707	X711	X712	X716	X719	X720	X721	X722	X723	X724	X725	
X570	X571	X572	X573	X577	X578	X579	X580	X581	X582	X583	X584	X585	X586	X587	X591	X592	X593	X594	X595	X596	X597	X598	X599	X600	X601	X602	X603	X604	X605	X606	X607	X611	X612	X613	X614	X615	X616	X617	X618	X619	X620	X621	X622	X623	X627	X628	X629	X633	X634	X635	X646	X647
X501	X502	X503	X504	X505	X506	X507	X508	X509	X510	X511	X512	X513	X514	X515	X516	X517	X518	X519	X520	X521	X522	X523	X524	X525	X526	X527	X528	X529	X530	X531	X532	X533	X534	X535	X536	X537	X538	X539	X540	X541	X542	X543	X544	X545	X546	X547	X548	X549	X550			
X441	X442	X443	X444	X445	X446	X447	X448	X449	X450	X451	X452	X453	X454	X455	X456	X457	X458	X459	X460	X461	X462	X463	X464	X465	X466	X467	X468	X469	X470	X471	X472	X473	X474	X475	X476	X477	X478	X479	X480	X481	X482	X483	X484	X485	X486	X487	X488	X489	X490			
X377	X378	X379	X380	X381	X382	X383	X388	X389	X390	X391	X392	X393	X394	X395	X396	X401	X402	X403	X404	X405	X406	X407	X408	X409	X410	X411	X412	X413	X414	X415	X416	X417	X418	X419	X420	X421	X422	X423	X424	X425	X426	X427	X428	X429	X430	X431	X432	X433	X434			
X251	X252	X253	X254	X255	X256	X257	X258	X259	X260	X261	X262	X263	X264	X265	X266	X267	X268	X269	X270	X271	X272	X273	X274	X275	X276	X277	X278	X279	X280	X281	X282	X283	X284	X285	X286	X287	X288	X289	X292	X293	X294	X295	X296	X297	X298	X299	X300	X301	X302	X303		
X191	X192	X193	X194	X195	X196	X197	X198	X199	X200	X201	X202	X203	X204	X205	X206	X207	X208	X209	X210	X211	X212	X213	X214	X215	X216	X217	X218	X219	X220	X221	X222	X223	X224	X225	X226	X227	X228	X229	X230	X231	X232	X233	X234	X235	X236	X237	X238	X239	X240			
M125	M126	M127	M130	M131	M132	M133	M134	M135	M136	M137	M138	M139	M143	M144	M145	M146	M147	M148	M149	M150	M151	M152	M153	M154	M155	M156	M157	M158	M159	M160	M161	M162	M163	M164	M165	M166	M167	M168	M169	M170	M171	M172	M173	M174	M175	M176	M177	M180				
X63	X64	X65	X66	X67	X68	X69	X70	X71	X72	X73	X74	X75	X76	X77	X78	X79	X80	X81	X82	X83	X84	X85	X86	X87	X88	X89	X90	X91	X92	X93	X94	X95	X96	X97	X98	X99	X100	X101	X102	X103	X104	X105	X106	X107	X108	X109	X110	X111	X112	X113		
M1	M2	M3	M4	M5	M6	M7	M8	M9	M10	M11	M12	M13	M14	M15	M16	M17	M18	M19	M20	M21	M22	M23	M24	M25	M26	M27	M28	M29	M30	M31	M32	M33	M34	M35	M36	M37	M38	M39	M40	M41	M42	M43	M44	M45	M46	M47	M48	M49	M50	M51	M52	

X2019	E1937	R1877	S1817	M1756	A1894	X1614	X1531	X1445	X1344	X1265	X1180	X1051
X2020	G1938	V1878	L1818	E1757	D1695	X1614	X1532	X1446	X1345	X1266	X1181	X1052
X2021	H1939	G1879	A1819	M1758	M1696	X1625	X1533	X1447	X1346	X1267	X1182	X1053
X2022	L1940	K1880	D1820	S1759	H1697	X1625	X1534	X1448	X1347	X1268	X1183	X1054
X2023	X1948	T1882	M1822	S1761	F1698	X1628	X1535	X1449	X1348	X1269	X1192	X1055
X2024	X1949	G1883	S1823	Y1762	D1700	X1629	X1536	X1450	X1349	X1270	X1193	X1056
X2028	X1950	M1884	E1824	T1763	T1701	X1630	X1537	X1451	X1350	X1271	X1194	X1057
X2029	X1951	L1885	E1825	F1764	Y1702	X1631	X1538	X1452	X1355	X1272	X1195	X1058
X2030	X1956	E1826	S1826	R1765	G1703	X1632	X1539	X1453	X1356	X1273	X1196	X1059
X2031	X1957	L1827	L1827	S1766	F1704	X1633	X1540	X1454	X1357	X1274	X1197	X1060
X2032	X1958	V1828	S1828	X1766	S1705	X1634	X1541	X1455	X1360	X1275	X1198	X1061
X2033	V1829	E1829	E1829	G1769	L1706	X1638	X1542	X1456	X1361	X1276	X1199	X1062
X2034	X1961	L1770	L1770	L1770	L1707	X1639	X1543	X1457	X1362	X1280	X1200	X1063
X2035	X1962	L1771	L1771	L1771	L1708	X1640	X1544	X1458	X1363	X1281	X1201	X1064
X2036	X1963	S1772	F1832	S1772	D1709	X1641	X1545	X1459	X1364	X1282	X1202	X1065
X2037	X1964	A1773	Y1833	A1773	Y1710	X1642	X1546	X1460	X1365	X1283	X1203	X1066
X2038	X1965	R1834	R1834	T1774	I1711	X1643	X1547	X1461	X1366	X1284	X1204	X1067
X2039	X1966	Q1835	Q1835	Q1775	M1712	X1644	X1548	X1462	X1367	X1285	X1205	X1068
X2040	X1967	M1836	M1836	F1776	M1713	X1645	X1549	X1463	X1368	X1286	X1206	X1069
X2041	X1968	T1837	T1837	F1777	P1714	X1646	X1550	X1464	X1369	X1287	X1207	X1070
X2042	X1969	Y1838	M1838	Q1778	V1715	X1647	X1551	X1465	X1370	X1288	X1208	X1071
X2043	X1970	P1779	Q1839	P1779	M1716	X1648	X1552	X1466	X1371	X1289	X1209	X1072
X2047	X1971	A1900	A1840	A1780	L1717	X1649	X1553	X1467	X1372	X1290	X1210	X1073
X2048	X1972	A1901	V1841	L1781	T1718	X1650	X1554	X1468	X1373	X1291	X1211	X1074
X2049	X1973	G1902	V1842	T1782	I1719	X1651	X1555	X1469	X1374	X1292	X1212	X1075
X2050	X1974	D1903	P1843	L1783	H1720	X1652	X1556	X1470	X1375	X1293	X1213	X1076
X2051	X1975	L1904	R1844	M1784	F1721	X1653	X1557	X1471	X1376	X1294	X1214	X1077
	X1976	R1905	D1845	E1785	G1722	X1654	X1558	X1472	X1377	X1295	X1215	X1078
	X1977	A1906	E1846	E1786	G1723	X1655	X1559	X1473	X1378	X1296	X1216	X1079
	X1978	L1907	L1847	A1787	E1724	X1656	X1560	X1474	X1379	X1297	X1217	X1080
	X1979	D1908	G1848	F1788	K1725	X1657	X1561	X1475	X1380	X1298	X1218	X1081
	X1980	T1909	R1849	F1789	G1726	X1658	X1562	X1476	X1381	X1299	X1219	X1082
	X1981	X1981	S1850	D1790	G1727	X1659	X1563	X1477	X1382	X1300	X1220	X1083
	X1982	X1982	N1851	E1791	R1728	X1660	X1564	X1478	X1383	X1301	X1221	X1084
	X1983	X1983	Y1852	D1792	I1729	X1661	X1565	X1479	X1384	X1302	X1222	X1085
	X1984	X1984	G1853	L1793	M1730	X1662	X1566	X1480	X1385	X1303	X1223	X1086
	X1985	X1985	M1854	S1794	E1731	X1663	X1567	X1481	X1386	X1304	X1224	X1087
	X1986	X1986	L1855	K1795	M1732	X1664	X1568	X1482	X1387	X1305	X1225	X1088
	X1987	X1987	A1856	G1796	Y1733	X1665	X1569	X1483	X1388	X1306	X1226	X1089
	X1988	X1988	L1857	L1797	S1734	X1666	X1570	X1484	X1389	X1307	X1227	X1090
	X1989	X1989	T1858	L1798	A1735	X1667	X1571	X1485	X1390	X1308	X1228	X1091
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	X1991	X1991	G1860	A1800	I1737	X1669	X1573	X1487	X1392	X1310	X1230	X1093
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	X1993	X1993	Y1862	A1802	E1739	X1671	X1575	X1489	X1394	X1312	X1232	X1095
	X1994	X1994	A1863	T1803	T1740	X1672	X1581	X1490	X1395	X1313	X1233	X1096
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	X2013	X2013	E1815	L1815	E1754	X1690	X1603	X1509	X1414	X1332	X1252	X1115
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	X2015	X2015	L1817	A1689	I1751	X1692	X1605	X1511	X1416	X1334	X1254	X1117
	X2016	X2016	Y1818	D1690	F1692	X1693	X1606	X1512	X1417	X1335	X1255	X1118
	X2017	X2017	A1813	V1690	F1692	X1694	X1607	X1513	X1418	X1336	X1256	X1119
	X2018	X2018	L1814	M1691	K1755	X1695	X1608	X1514	X1419	X1337	X1257	X1120
	X2019	X2019	E1815	L1815	E1754	X1696	X1609	X1515	X1420	X1338	X1258	X1121
	X2020	X2020	Y1816	M1692	K1755	X1697	X1610	X1516	X1421	X1339	X1259	X1122
	X2021	X2021	L1817	A1689	I1751	Q1688	X1611	X1517	X1422	X1340	X1260	X1123
	X2022	X2022	Y1818	D1690	F1692	X1689	X1612	X1518	X1423	X1341	X1261	X1124
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	X2027	X2027	L1817	A1689	I1751	X1694	X1617	X1523	X1428	X1346	X1266	X1129
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	X2029	X2029	A1813	V1690	F1692	X1696	X1619	X1525	X1430	X1348	X1268	X1131
	X2030	X2030	L1814	M1691	K1755	X1697	X1620	X1526	X1431	X1349	X1269	X1132
	X2031	X2031	E1815	L1815	E1754	X1698	X1621	X1527	X1432	X1350	X1270	X1133
	X2032	X2032	Y1816	M1692	K1755	X1699	X1622	X1528	X1433	X1351	X1271	X1134
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	X2035	X2035	A1813	V1690	F1692	X1690	X1625	X1531	X1436	X1354	X1274	X1137
	X2036	X2036	L1814	M1691	K1755	X1691	X1626	X1532	X1437	X1355	X1275	X1138
	X2037	X2037	E1815	L1815	E1754	X1692	X1627	X1533	X1438	X1356	X1276	X1139
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	X2040	X2040	Y1818	D1690	F1692	X1689	X1630	X1536	X1441	X1359	X1279	X1142
	X2041	X2041	A1813	V1690	F1692	X1690	X1631	X1537	X1442	X1360	X1280	X1143
	X2042	X2042	L1814	M1691	K1755	X1691	X1632	X1538	X1443	X1361	X1281	X1144
	X2043	X2043	E1815	L1815	E1754	X1692	X1633	X1539	X1444	X1362	X1282	X1145
	X2044	X2044	Y1816	M1692	K1755	X1693	X1634	X1540	X1445	X1363	X1283	X1146
	X2045	X2045	L1817	A1689	I1751	Q1688	X1635	X1541	X1446	X1364	X1284	X1147
	X2046	X2046	Y1818	D1690	F1692	X1689	X1636	X1542	X1447	X1365	X1285	X1148
	X2047	X2047	A1813	V1690	F1692	X1690	X1637	X1543	X1448	X1366	X1286	X1149
	X2048	X2048	L1814	M1691	K1755	X1691	X1638	X1544	X1449	X1367	X1287	X1150
	X2049	X2049	E1815	L1815	E1754	X1692	X1639	X1545	X1450	X1368	X1288	X1151
	X2050	X2050	Y1816	M1692	K1755	X1693	X1640	X1546	X1451	X1369	X1289	X1152
	X2051	X2051	L1817	A1689	I1751	Q1688	X1641	X1547	X1452	X1370	X1290	X1153
	X2052	X2052										

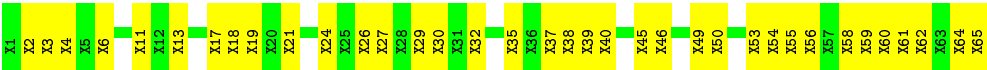
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X887	X888		X895	X896	X897	X898	X899	X900	X905	X906	X907	X911	X912		X915	X916	X917	X918	X919	X920	X921	X922	X923	X924	X925	X926	X927	X928	X929	X930	X931	X932	X933	X934	X935	X936	X946	X947	X948	X949	X950	X951	X956	X957	X958	X959	X960	X961	X962	X963	X964	X967	X969	X970													
X802	X803		X806	X807	X808	X809	X810	X811	X812	X813	X814	X815	X816	X820	X821	X822	X823	X824		X836	X837	X838		X841	X842	X843	X844	X845	X846	X847	X851	X852	X853		X862	X863	X864	X865	X866	X867	X868	X869	X870	X871		X875	X876	X877	X878	X879	X880	X881	X882	X883													
X722	X723	X724	X725	X726	X727	X728	X729	X730	X731	X732	X735	X736	X737	X738	X739	X742	X743	X744	X745	X746	X747	X748	X749		X752	X753	X754	X755	X756	X760	X761	X762	X763	X764	X765	X766	X767	X768	X769	X770	X772		X775	X776	X777		X784	X785	X786		X796	X797	X798	X799	X800	X801											
X650	X651	X652	X653	X654	X655	X656	X657	X658	X659	X660	X661	X662	X667	X668	X669	X670	X673	X674	X675	X676	X677	X678	X679	X680	X681	X682	X683	X684	X685	X690	X691	X692	X693	X694	X695	X696	X697	X698	X699	X700	X701	X702	X703	X704	X705	X706	X707		X711	X712		X716		X719	X720	X721											
X570	X571	X572		X577	X578	X579	X580	X581	X582	X583	X584	X585	X586	X587	X591	X592	X593	X594	X595	X596	X597	X598	X599	X600	X601	X602	X603	X604	X605	X611	X612	X613	X614	X615	X616	X617	X618	X619	X620	X621	X622	X623		X627	X628	X629		X633	X634	X635		X646	X647	X648	X649												
L502	D503	F504	G505	P506	D507	G508	A509	S510	G511	L512	G513	V514	L515	T516	H517	R518	N519	K520	G521	T522	F523	G524	V525	R526	V527	V528	V529	A530	G531	G532	P537	X538	D539	D540	Y541	G542	F543	V544	K545	Q546		X550	X551	X554	X555	X556	X557		X562	X563		X567	X568	X569													
D442	L443	V444	K445	L446	D447	V448	S449	F450	A451	A452	G453	D454	L455	T456	R457	D461	F463	D464	G465	S466	D467	L468	R469	V470	A471	G472	S473	D474	S475	F476	E477	R478	L479	V480	D481	C482	I483	F484	A485	L486	P487	V488	R489	H490	E491	T492	T493	T494	Q495	F496	T497	A498	T499	H500	L501												
X378	V379	S380	G381	L382	P383	D384	S385	L386	V387	G388	L389	K390	L391	T392	L393	R394	K395	A396		G401	L402	D403	Q404	S405	R406	L407	P408	F409	A410	G411	R412	R415	F416	S417	M418	R419	F420	K354	K355	L421	P422	V423	A424	S425	P426	F427	H428	S429	H430	L431	L432	V433	P434	A435	S436	D437	L438	T439	M440	K441							
P315	M316	T317	S318	L319	P320	P321	S322	L323	G324	G325	L328	E329	M330	N331	E332	G333	V334	P335	S336	P337	M338	L339	S340	L341	S342	N343	L344	T345	N346	Q347	Q348	V349	D350	X351	X352	V353	M354	K355	T356	N357	S358	H359	L360	P361	Q365	V366	E367	L368	S369	L370	V371	G372	G373	A374	K375	N376	L377										
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A192	E193	T194		R130	E197	L198	I199	K200	L201	E202	L203	D204	A205	K206	E207	F208	G209	T210	Q211	G212	L213	N214	L215	E217	Q155	L156	V157	A158	N221	I159	P222	F160	G161	Q162	T225	P226	G163	N224	D227	N165	T166	D228	D229	T230	L231	L232	S233	E171	E172	L234	P235	L236	S237	C238	P239	A240	I241	G242	L243	Q244	I245	G246	L247	H248	Y249	V250	L251
K63	F64	L65	G66	V67	V68	S69	S70	L71	E72	R73	E74	S75	K76	V77	G78	Q79	F80	D81	Q82	N85	L86	C87	L88	T89	E90	F91	E92	N93	C94	Y95	L96	E97	G98	N99	D100	L101	H102	A103	L104	A105	A106	K107	L108	Q109	Q110	E111	N112	D113	T114	T115	K118	T119	K120	E121	L122	V123	K124										
M1	D2	A3	Y4	S5		L9	T10	L11	S12	H13	G14	S15	L16	E17	H18	V19	L20	L21	V22	T23	T24	G25	S26	F27	F28	L29	A30	S31	Q32	L33	Q34	E35	Q36	F37	N38	K39	L40	L41	P42	E43	P44	T45	E46	G47	F48	A49	A50	D51	D52	E53	P54	T55	T56	P57	A58	E59	L60	V61	G62								



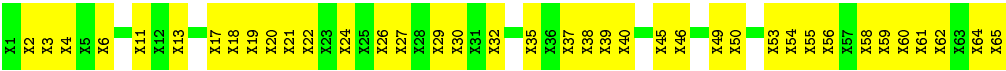
Response	Percentage
U.S. is a threat to their country's security	48%
U.S. is not a threat to their country's security	52%



● Molecule 3: Tail protein



● Molecule 3: Tail protein



4 Data and refinement statistics

Property	Value	Source
Space group	P 43 21 2	Depositor
Cell constants a, b, c, α , β , γ	231.34Å 231.34Å 754.29Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	60.00 – 4.00 59.69 – 3.91	Depositor EDS
% Data completeness (in resolution range)	98.7 (60.00-4.00) 97.4 (59.69-3.91)	Depositor EDS
R_{merge}	0.13	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.48 (at 3.88Å)	Xtriage
Refinement program	CNS	Depositor
R, R_{free}	0.319 , 0.346 0.299 , 0.333	Depositor DCC
R_{free} test set	8857 reflections (4.91%)	wwPDB-VP
Wilson B-factor (Å ²)	152.3	Xtriage
Anisotropy	0.194	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.21 , 180.4	EDS
L-test for twinning ²	$\langle L \rangle = 0.39$, $\langle L^2 \rangle = 0.21$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.86	EDS
Total number of atoms	71862	wwPDB-VP
Average B, all atoms (Å ²)	151.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 1.63% 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

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	0.80	7/8414 (0.1%)	0.95	28/11377 (0.2%)
1	D	0.80	7/8414 (0.1%)	0.95	32/11377 (0.3%)
1	G	0.82	7/8414 (0.1%)	0.96	29/11377 (0.3%)
2	B	0.41	0/6495	0.72	2/8812 (0.0%)
2	E	0.40	0/6495	0.72	3/8812 (0.0%)
2	H	0.41	0/6495	0.72	2/8812 (0.0%)
All	All	0.66	21/44727 (0.0%)	0.86	96/60567 (0.2%)

All (21) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	G	1150	ASP	CB-CG	33.05	2.21	1.51
1	D	1150	ASP	CB-CG	32.65	2.20	1.51
1	A	1150	ASP	CB-CG	32.54	2.20	1.51
1	D	1181	PHE	CD2-CE2	21.08	1.81	1.39
1	G	1181	PHE	CE2-CZ	20.68	1.76	1.37
1	G	1181	PHE	CD2-CE2	20.66	1.80	1.39
1	A	1181	PHE	CE2-CZ	20.25	1.75	1.37
1	A	1181	PHE	CE1-CZ	20.21	1.75	1.37
1	A	1181	PHE	CD2-CE2	20.07	1.79	1.39
1	G	1181	PHE	CE1-CZ	19.95	1.75	1.37
1	A	1181	PHE	CD1-CE1	19.77	1.78	1.39
1	G	1181	PHE	CD1-CE1	19.71	1.78	1.39
1	D	1181	PHE	CD1-CE1	19.53	1.78	1.39
1	D	1181	PHE	CE2-CZ	19.47	1.74	1.37
1	D	1181	PHE	CE1-CZ	18.95	1.73	1.37
1	D	1181	PHE	CG-CD2	13.09	1.58	1.38
1	D	1181	PHE	CG-CD1	13.05	1.58	1.38
1	A	1181	PHE	CG-CD1	12.73	1.57	1.38
1	G	1181	PHE	CG-CD2	12.53	1.57	1.38
1	A	1181	PHE	CG-CD2	12.52	1.57	1.38
1	G	1181	PHE	CG-CD1	12.42	1.57	1.38

All (96) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	G	1150	ASP	CB-CG-OD1	12.15	129.24	118.30
1	D	1150	ASP	CB-CG-OD1	12.14	129.22	118.30
1	A	1150	ASP	CB-CG-OD1	11.62	128.76	118.30
1	D	992	PHE	C-N-CD	-11.23	95.89	120.60
1	G	992	PHE	C-N-CD	-10.81	96.82	120.60
1	A	992	PHE	C-N-CD	-10.76	96.93	120.60
1	G	1113	GLY	N-CA-C	-9.98	88.14	113.10
1	D	1113	GLY	N-CA-C	-9.92	88.30	113.10
1	A	1113	GLY	N-CA-C	-9.89	88.38	113.10
1	G	1150	ASP	OD1-CG-OD2	-8.96	106.28	123.30
1	D	1150	ASP	OD1-CG-OD2	-8.88	106.43	123.30
1	A	1150	ASP	OD1-CG-OD2	-8.63	106.89	123.30
1	D	1264	ARG	N-CA-C	-8.61	87.75	111.00
1	A	1264	ARG	N-CA-C	-8.40	88.31	111.00
1	G	1264	ARG	N-CA-C	-8.40	88.33	111.00
1	D	1065	GLY	N-CA-C	-8.21	92.58	113.10
1	G	1065	GLY	N-CA-C	-8.21	92.57	113.10
1	A	1065	GLY	N-CA-C	-8.11	92.83	113.10
1	A	1077	ASP	N-CA-C	-7.88	89.72	111.00
1	G	1077	ASP	N-CA-C	-7.76	90.05	111.00
1	D	1077	ASP	N-CA-C	-7.70	90.20	111.00
1	D	1663	GLY	N-CA-C	-7.46	94.46	113.10
1	A	1663	GLY	N-CA-C	-7.37	94.68	113.10
1	G	1663	GLY	N-CA-C	-7.08	95.39	113.10
1	G	1150	ASP	CB-CG-OD2	6.68	124.31	118.30
1	A	1343	PHE	N-CA-C	-6.65	93.03	111.00
1	D	1150	ASP	CB-CG-OD2	6.60	124.24	118.30
1	A	1175	ILE	C-N-CD	-6.59	106.09	120.60
1	A	1150	ASP	CB-CG-OD2	6.56	124.20	118.30
1	D	1098	LEU	CA-CB-CG	6.53	130.33	115.30
1	D	1738	ILE	N-CA-C	-6.51	93.41	111.00
1	G	1175	ILE	C-N-CD	-6.46	106.38	120.60
1	D	1175	ILE	C-N-CD	-6.45	106.42	120.60
1	G	1343	PHE	N-CA-C	-6.44	93.62	111.00
1	D	1343	PHE	N-CA-C	-6.42	93.67	111.00
1	G	1098	LEU	CA-CB-CG	6.40	130.03	115.30
1	A	1738	ILE	N-CA-C	-6.37	93.79	111.00
1	G	1738	ILE	N-CA-C	-6.35	93.86	111.00
1	A	1098	LEU	CA-CB-CG	6.33	129.85	115.30
1	D	1341	PHE	N-CA-C	-6.07	94.61	111.00
1	G	1352	THR	N-CA-C	-5.94	94.96	111.00
1	G	1341	PHE	N-CA-C	-5.90	95.08	111.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	1341	PHE	N-CA-C	-5.88	95.13	111.00
1	A	1108	PRO	N-CA-C	5.76	127.07	112.10
1	D	1108	PRO	N-CA-C	5.73	127.01	112.10
1	A	1352	THR	N-CA-C	-5.68	95.67	111.00
1	G	1126	ILE	CB-CA-C	-5.68	100.25	111.60
2	H	1918	LYS	N-CA-C	5.66	126.28	111.00
1	D	1352	THR	N-CA-C	-5.66	95.73	111.00
1	G	1108	PRO	N-CA-C	5.66	126.81	112.10
2	B	1918	LYS	N-CA-C	5.60	126.13	111.00
2	E	1918	LYS	N-CA-C	5.58	126.08	111.00
1	A	1126	ILE	CB-CA-C	-5.51	100.59	111.60
1	G	1266	LYS	N-CA-C	-5.48	96.21	111.00
1	G	1131	LEU	CA-CB-CG	5.47	127.89	115.30
1	D	1635	GLY	N-CA-C	-5.47	99.43	113.10
1	A	1174	TYR	N-CA-C	-5.46	96.27	111.00
1	A	1635	GLY	N-CA-C	-5.44	99.50	113.10
1	G	1463	VAL	N-CA-C	-5.40	96.41	111.00
1	D	1161	GLY	N-CA-C	-5.39	99.61	113.10
2	E	1722	GLY	N-CA-C	-5.38	99.64	113.10
1	G	1424	GLY	N-CA-C	-5.36	99.70	113.10
1	D	984	PRO	N-CA-CB	5.36	109.73	103.30
1	D	1266	LYS	N-CA-C	-5.35	96.56	111.00
1	G	984	PRO	N-CA-CB	5.35	109.72	103.30
1	D	1424	GLY	N-CA-C	-5.34	99.74	113.10
1	A	1266	LYS	N-CA-C	-5.31	96.67	111.00
1	A	1161	GLY	N-CA-C	-5.31	99.84	113.10
1	D	1463	VAL	N-CA-C	-5.30	96.68	111.00
1	D	1718	PRO	N-CA-CB	5.30	109.66	103.30
1	G	1635	GLY	N-CA-C	-5.30	99.85	113.10
1	A	984	PRO	N-CA-CB	5.30	109.66	103.30
1	A	1718	PRO	N-CA-CB	5.29	109.64	103.30
1	G	1610	ASN	N-CA-C	-5.29	96.73	111.00
1	G	1175	ILE	N-CA-C	-5.28	96.75	111.00
1	D	1126	ILE	CB-CA-C	-5.27	101.06	111.60
1	G	1161	GLY	N-CA-C	-5.27	99.92	113.10
1	D	796	LEU	CA-CB-CG	5.27	127.42	115.30
2	B	1722	GLY	N-CA-C	-5.26	99.95	113.10
1	D	1610	ASN	N-CA-C	-5.26	96.80	111.00
1	D	1174	TYR	N-CA-C	-5.25	96.84	111.00
1	A	1463	VAL	N-CA-C	-5.24	96.87	111.00
1	A	1207	GLN	N-CA-C	-5.22	96.90	111.00
1	A	1424	GLY	N-CA-C	-5.22	100.05	113.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	H	1722	GLY	N-CA-C	-5.20	100.09	113.10
1	D	1131	LEU	CA-CB-CG	5.17	127.18	115.30
1	G	1174	TYR	N-CA-C	-5.16	97.07	111.00
1	D	1342	GLU	N-CA-C	-5.16	97.08	111.00
2	E	1766	SER	N-CA-C	-5.13	97.15	111.00
1	A	1610	ASN	N-CA-C	-5.13	97.16	111.00
1	G	1718	PRO	N-CA-CB	5.12	109.44	103.30
1	D	1204	ILE	N-CA-C	-5.11	97.21	111.00
1	D	1175	ILE	N-CA-C	-5.10	97.22	111.00
1	D	1207	GLN	N-CA-C	-5.10	97.23	111.00
1	A	1175	ILE	N-CA-C	-5.07	97.30	111.00
1	G	1207	GLN	N-CA-C	-5.06	97.35	111.00

There are no chirality outliers.

There are no planarity outliers.

5.2 Too-close contacts ⓘ

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	11319	0	8817	2535	24
1	D	11319	0	8818	2518	14
1	G	11319	0	8817	2527	24
2	B	12310	0	7819	1753	0
2	E	12310	0	7817	1770	0
2	H	12310	0	7816	1770	0
3	C	325	0	76	25	0
3	F	325	0	76	28	0
3	I	325	0	76	35	0
All	All	71862	0	50132	12923	38

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 106.

All (12923) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1181:PHE:CE2	1:G:1181:PHE:CZ	1.76	1.71
1:A:1181:PHE:CZ	1:A:1181:PHE:CE2	1.75	1.69
1:D:1181:PHE:CD2	1:D:1181:PHE:CE2	1.81	1.68
1:G:1181:PHE:CE1	1:G:1181:PHE:CZ	1.75	1.68
1:D:1181:PHE:CD1	1:D:1181:PHE:CE1	1.78	1.66
1:G:1181:PHE:CE2	1:G:1181:PHE:CD2	1.80	1.66
1:A:1181:PHE:CE1	1:A:1181:PHE:CD1	1.78	1.66
1:G:1181:PHE:CE1	1:G:1181:PHE:CD1	1.78	1.66
1:A:1181:PHE:CE1	1:A:1181:PHE:CZ	1.75	1.66
1:A:1181:PHE:CD2	1:A:1181:PHE:CE2	1.79	1.62
1:G:1190:PRO:HG3	1:G:1378:GLU:O	1.40	1.20
1:A:1190:PRO:HG3	1:A:1378:GLU:O	1.40	1.17
1:D:1398:VAL:HG13	1:D:1399:PRO:HA	1.27	1.16
1:D:1454:THR:HG23	1:D:1455:ARG:H	1.07	1.16
1:D:1190:PRO:HG3	1:D:1378:GLU:O	1.40	1.15
1:G:1396:MET:HA	1:G:1676:LYS:HD3	1.27	1.15
1:A:1396:MET:HA	1:A:1676:LYS:HD3	1.28	1.15
1:A:1208:VAL:O	1:A:1210:PRO:HD2	1.47	1.15
1:A:1454:THR:HG23	1:A:1455:ARG:H	1.05	1.14
1:D:1067:LEU:HD21	1:D:1073:THR:HA	1.29	1.14
1:G:1022:THR:HG22	1:G:1226:SER:HB2	1.16	1.14
1:A:1373:ARG:HG2	1:A:1547:LYS:HD3	1.14	1.14
1:G:1398:VAL:HG13	1:G:1399:PRO:HA	1.25	1.14
1:D:1291:LEU:H	1:D:1701:LYS:HD2	1.07	1.12
2:H:527:VAL:HG13	2:H:541:TYR:HA	1.25	1.12
1:A:1022:THR:HG23	1:A:1398:VAL:HG23	1.27	1.12
2:E:241:ILE:HG21	2:E:275:GLN:HE21	1.12	1.12
1:G:1454:THR:HG23	1:G:1455:ARG:H	1.06	1.12
1:G:1547:LYS:HA	1:G:1550:ASP:HB2	1.32	1.12
1:A:1022:THR:HG22	1:A:1226:SER:HB2	1.16	1.12
1:G:1152:VAL:HB	1:G:1154:ILE:HG12	1.30	1.12
2:E:527:VAL:HG13	2:E:541:TYR:HA	1.26	1.11
1:D:1152:VAL:HB	1:D:1154:ILE:HG12	1.30	1.11
1:D:1022:THR:HG23	1:D:1398:VAL:HG23	1.31	1.11
1:A:1540:SER:HA	1:A:1575:VAL:HB	1.32	1.11
2:B:527:VAL:HG13	2:B:541:TYR:HA	1.25	1.11
1:D:1373:ARG:HG2	1:D:1547:LYS:HD3	1.14	1.10
1:D:1189:ILE:CG2	1:D:1377:MET:HB2	1.81	1.10
1:A:1189:ILE:HG22	1:A:1190:PRO:HD3	1.33	1.10
1:D:1189:ILE:HG21	1:D:1377:MET:HB2	1.14	1.10
2:B:372:ASN:HB2	2:B:515:LEU:HD21	1.31	1.10
1:G:1291:LEU:H	1:G:1701:LYS:HD2	1.07	1.10

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1189:ILE:CG2	1:G:1377:MET:HB2	1.80	1.10
1:D:1022:THR:HG22	1:D:1226:SER:HB2	1.19	1.10
1:D:1547:LYS:HA	1:D:1550:ASP:HB2	1.30	1.10
1:G:1189:ILE:HG21	1:G:1377:MET:HB2	1.14	1.10
1:D:1150:ASP:CG	1:D:1150:ASP:CB	2.20	1.10
1:D:1175:ILE:HG22	1:D:1176:PRO:CA	1.81	1.10
1:G:1022:THR:HG23	1:G:1398:VAL:HG23	1.28	1.10
1:G:1471:LYS:HE2	1:G:1761:UNK:HA	1.25	1.10
1:G:1208:VAL:O	1:G:1210:PRO:HD2	1.52	1.09
1:G:1538:VAL:HG23	1:G:1639:VAL:HA	1.34	1.09
1:A:1189:ILE:HG21	1:A:1377:MET:HB2	1.14	1.09
1:D:1471:LYS:HE2	1:D:1761:UNK:HA	1.22	1.09
1:A:1152:VAL:HB	1:A:1154:ILE:HG12	1.32	1.09
1:A:1291:LEU:H	1:A:1701:LYS:HD2	1.08	1.09
1:G:1175:ILE:HG22	1:G:1176:PRO:CA	1.81	1.09
1:A:1157:ILE:HG22	1:A:1158:PRO:HD2	1.33	1.09
1:A:1398:VAL:HG13	1:A:1399:PRO:HA	1.27	1.09
1:A:1189:ILE:CG2	1:A:1377:MET:HB2	1.82	1.09
1:D:1540:SER:HA	1:D:1575:VAL:HB	1.33	1.09
1:G:1150:ASP:CG	1:G:1150:ASP:CB	2.21	1.09
1:A:1150:ASP:CG	1:A:1150:ASP:CB	2.20	1.08
1:G:1189:ILE:HG22	1:G:1190:PRO:HD3	1.34	1.08
2:E:1715:VAL:HB	2:E:1770:LEU:H	1.17	1.08
2:E:43:GLU:HB2	2:E:44:PRO:HD3	1.33	1.08
1:A:1471:LYS:HE2	1:A:1761:UNK:HA	1.23	1.08
1:G:1067:LEU:HD22	1:G:1068:LYS:N	1.69	1.08
1:D:1157:ILE:HG22	1:D:1158:PRO:HD2	1.33	1.07
2:H:43:GLU:HB2	2:H:44:PRO:HD3	1.33	1.07
1:D:1208:VAL:O	1:D:1210:PRO:HD2	1.52	1.07
1:D:1396:MET:HA	1:D:1676:LYS:HD3	1.29	1.07
1:A:1175:ILE:HG22	1:A:1176:PRO:CA	1.83	1.07
2:H:241:ILE:HG21	2:H:275:GLN:HE21	1.15	1.07
2:H:372:ASN:HB2	2:H:515:LEU:HD21	1.31	1.07
1:G:1540:SER:HA	1:G:1575:VAL:HB	1.32	1.07
2:B:43:GLU:HB2	2:B:44:PRO:HD3	1.32	1.07
2:E:372:ASN:HB2	2:E:515:LEU:HD21	1.31	1.07
1:G:1246:CYS:HB3	1:G:1328:ILE:HG23	1.37	1.07
2:B:241:ILE:HG21	2:B:275:GLN:HE21	1.14	1.06
1:G:1373:ARG:HG2	1:G:1547:LYS:HD3	1.12	1.06
2:B:1715:VAL:HB	2:B:1770:LEU:H	1.19	1.06
1:G:1157:ILE:HG22	1:G:1158:PRO:HD2	1.32	1.06

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1067:LEU:HD21	1:G:1073:THR:HA	1.32	1.06
1:A:1538:VAL:HG23	1:A:1639:VAL:HA	1.33	1.06
1:G:1385:GLN:HE22	1:G:1593:MET:HG3	1.20	1.06
1:A:1067:LEU:HD22	1:A:1068:LYS:N	1.71	1.06
1:G:1067:LEU:HG	1:G:1073:THR:HG23	1.38	1.06
1:A:1067:LEU:HD21	1:A:1073:THR:HA	1.31	1.06
2:H:1715:VAL:HB	2:H:1770:LEU:H	1.16	1.05
1:A:1547:LYS:HA	1:A:1550:ASP:HB2	1.33	1.05
1:D:1385:GLN:HE22	1:D:1593:MET:HG3	1.18	1.05
1:D:1606:PRO:HB2	1:D:1627:PRO:HA	1.05	1.04
1:D:1254:VAL:HA	1:D:1257:LEU:HB3	1.39	1.04
1:G:1332:TYR:H	1:G:1587:ALA:HB2	1.22	1.04
1:A:1254:VAL:HA	1:A:1257:LEU:HB3	1.37	1.04
1:A:1193:TRP:CH2	1:A:1380:GLN:HB2	1.92	1.04
1:D:1604:ILE:HG22	1:D:1605:ILE:H	1.20	1.04
2:H:168:ASP:HB3	2:H:171:GLU:HB2	1.40	1.04
1:A:1332:TYR:H	1:A:1587:ALA:HB2	1.19	1.04
1:D:1189:ILE:HG22	1:D:1190:PRO:HD3	1.36	1.04
1:A:1606:PRO:HB2	1:A:1627:PRO:HA	1.06	1.04
1:D:1067:LEU:HG	1:D:1073:THR:HG23	1.37	1.04
1:D:1067:LEU:HD22	1:D:1068:LYS:N	1.71	1.04
1:D:1193:TRP:CH2	1:D:1380:GLN:HB2	1.91	1.04
1:G:1604:ILE:HG22	1:G:1605:ILE:H	1.22	1.04
2:E:169:TYR:HE2	2:E:237:SER:HB2	1.22	1.03
1:A:1246:CYS:HB3	1:A:1328:ILE:HG23	1.37	1.03
1:G:1403:ILE:HG23	1:G:1656:VAL:HG13	1.40	1.03
1:A:1403:ILE:HG23	1:A:1656:VAL:HG13	1.39	1.03
1:D:1110:LEU:HD13	1:D:1120:GLU:HG3	1.40	1.03
1:A:1076:VAL:HG11	1:A:1087:LYS:HA	1.40	1.03
1:A:1067:LEU:HG	1:A:1073:THR:HG23	1.36	1.03
1:G:1137:SER:OG	1:G:1168:LEU:HD12	1.59	1.03
1:A:1259:GLY:HA2	1:A:1263:ASP:HB2	1.41	1.02
1:A:1423:LYS:HB2	1:A:1552:ASN:HD21	1.22	1.02
1:D:1335:PHE:HE1	1:D:1340:SER:HB2	1.24	1.02
1:G:1193:TRP:CH2	1:G:1380:GLN:HB2	1.93	1.02
1:D:755:THR:HG22	1:D:757:LYS:H	1.23	1.02
1:G:1254:VAL:HA	1:G:1257:LEU:HB3	1.39	1.02
2:H:366:VAL:HG22	2:H:381:GLY:HA3	1.41	1.02
1:D:1246:CYS:HB3	1:D:1328:ILE:HG23	1.36	1.02
1:D:1259:GLY:HA2	1:D:1263:ASP:HB2	1.37	1.02
1:A:1223:PHE:HE2	1:A:1386:ILE:HG21	1.24	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1464:GLU:HA	1:A:1467:LEU:HD12	1.42	1.02
1:D:752:ILE:HA	1:D:761:LEU:HD23	1.41	1.02
1:G:1606:PRO:HB2	1:G:1627:PRO:HA	1.04	1.02
1:A:1335:PHE:HE1	1:A:1340:SER:HB2	1.21	1.02
1:A:755:THR:HG22	1:A:757:LYS:H	1.25	1.02
1:D:1423:LYS:HB2	1:D:1552:ASN:HD21	1.21	1.02
1:G:1423:LYS:HB2	1:G:1552:ASN:HD21	1.23	1.02
1:A:1137:SER:OG	1:A:1168:LEU:HD12	1.59	1.02
1:D:1538:VAL:HG23	1:D:1639:VAL:HA	1.36	1.02
2:E:366:VAL:HG22	2:E:381:GLY:HA3	1.41	1.02
1:G:1103:ILE:HA	1:G:1106:ILE:HD12	1.39	1.02
1:G:1704:ALA:HB1	1:G:1705:PRO:HD2	1.40	1.02
2:B:169:TYR:HE2	2:B:237:SER:HB2	1.22	1.02
1:A:1604:ILE:HG22	1:A:1605:ILE:H	1.23	1.02
2:E:1665:UNK:HA	2:E:1805:ALA:HB3	1.42	1.02
1:G:1063:HIS:C	1:G:1065:GLY:H	1.54	1.02
1:G:1464:GLU:HA	1:G:1467:LEU:HD12	1.40	1.02
1:A:1385:GLN:HE22	1:A:1593:MET:HG3	1.22	1.01
1:D:1403:ILE:HG23	1:D:1656:VAL:HG13	1.39	1.01
1:G:1020:VAL:HG13	1:G:1402:GLY:O	1.59	1.01
1:G:1711:GLU:HG2	1:G:1715:TYR:HE1	1.25	1.01
1:G:755:THR:HG22	1:G:757:LYS:H	1.21	1.01
2:H:56:THR:HG23	2:H:59:GLU:HG3	1.41	1.01
2:H:455:ILE:HD12	2:H:469:ARG:HB2	1.42	1.01
1:D:1076:VAL:HG11	1:D:1087:LYS:HA	1.42	1.01
1:G:1099:GLU:HG2	1:G:1100:HIS:H	1.26	1.01
1:D:1332:TYR:H	1:D:1587:ALA:HB2	1.22	1.01
1:A:1254:VAL:HA	1:A:1257:LEU:CB	1.91	1.00
2:H:1733:TYR:OH	2:H:1761:SER:HA	1.61	1.00
1:G:1259:GLY:HA2	1:G:1263:ASP:HB2	1.41	1.00
2:H:1:MET:HB2	2:H:11:LEU:HB2	1.43	1.00
1:A:1704:ALA:HB1	1:A:1705:PRO:HD2	1.41	1.00
1:A:752:ILE:HA	1:A:761:LEU:HD23	1.42	1.00
1:D:1137:SER:OG	1:D:1168:LEU:HD12	1.59	1.00
2:H:169:TYR:CE2	2:H:237:SER:HB2	1.97	1.00
1:A:768:ILE:HG22	1:A:770:PRO:HD3	1.43	1.00
2:B:56:THR:HG23	2:B:59:GLU:HG3	1.42	1.00
1:G:1254:VAL:HA	1:G:1257:LEU:CB	1.90	1.00
1:A:1110:LEU:HD13	1:A:1120:GLU:HG3	1.40	1.00
2:B:234:ILE:HG23	2:B:235:PRO:HD3	1.42	1.00
1:G:752:ILE:HA	1:G:761:LEU:HD23	1.42	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1351:ASN:HD22	1:A:1354:GLU:HB2	1.26	1.00
2:H:471:LEU:HG	2:H:472:SER:H	1.26	1.00
1:D:1351:ASN:HD22	1:D:1354:GLU:HB2	1.26	1.00
2:E:1733:TYR:OH	2:E:1761:SER:HA	1.60	1.00
2:B:1665:UNK:HA	2:B:1805:ALA:HB3	1.43	1.00
2:B:169:TYR:CE2	2:B:237:SER:HB2	1.96	1.00
2:E:169:TYR:CE2	2:E:237:SER:HB2	1.96	1.00
1:A:1099:GLU:HG2	1:A:1100:HIS:H	1.24	0.99
2:E:1266:UNK:HA	2:E:1269:UNK:CB	1.92	0.99
1:D:1099:GLU:HG2	1:D:1100:HIS:H	1.26	0.99
2:E:1:MET:HB2	2:E:11:LEU:HB2	1.44	0.99
2:E:168:ASP:HB3	2:E:171:GLU:HB2	1.40	0.99
2:B:168:ASP:HB3	2:B:171:GLU:HB2	1.40	0.99
2:B:1733:TYR:OH	2:B:1761:SER:HA	1.63	0.99
2:B:455:ILE:HD12	2:B:469:ARG:HB2	1.44	0.99
1:D:768:ILE:HG22	1:D:770:PRO:HD3	1.41	0.99
1:G:1353:LEU:H	1:G:1356:PHE:HB2	1.26	0.99
1:A:1063:HIS:C	1:A:1065:GLY:H	1.54	0.99
1:A:1711:GLU:HG2	1:A:1715:TYR:HE1	1.24	0.99
1:G:1110:LEU:HD13	1:G:1120:GLU:HG3	1.40	0.99
2:H:258:PHE:HB3	2:H:262:GLU:HB2	1.44	0.99
2:B:366:VAL:HG22	2:B:381:GLY:HA3	1.43	0.99
1:D:1711:GLU:HG2	1:D:1715:TYR:HE1	1.24	0.99
2:H:1665:UNK:HA	2:H:1805:ALA:HB3	1.40	0.99
1:D:1020:VAL:HG13	1:D:1402:GLY:O	1.60	0.98
2:B:318:SER:H	2:H:1307:UNK:CB	1.75	0.98
1:G:1175:ILE:CG2	1:G:1176:PRO:HA	1.92	0.98
1:G:1697:LEU:H	1:G:1697:LEU:HD12	1.29	0.98
1:D:1175:ILE:CG2	1:D:1176:PRO:HA	1.92	0.98
1:G:1076:VAL:HG11	1:G:1087:LYS:HA	1.42	0.98
1:A:1020:VAL:HG13	1:A:1402:GLY:O	1.60	0.98
1:D:1063:HIS:C	1:D:1065:GLY:H	1.54	0.98
2:E:258:PHE:HB3	2:E:262:GLU:HB2	1.45	0.98
1:D:808:LYS:HE3	1:D:808:LYS:HA	1.45	0.98
2:E:471:LEU:HG	2:E:472:SER:H	1.27	0.98
1:G:677:TYR:HE2	1:G:702:LYS:HD2	1.29	0.98
1:A:1189:ILE:HG22	1:A:1190:PRO:CD	1.92	0.98
2:B:1724:GLU:HG2	2:B:1726:GLY:H	1.28	0.98
1:A:1583:HIS:H	1:A:1583:HIS:CD2	1.80	0.98
1:D:1254:VAL:HA	1:D:1257:LEU:CB	1.93	0.98
1:D:1223:PHE:HE2	1:D:1386:ILE:HG21	1.27	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1604:ILE:HD12	1:A:1630:THR:HB	1.45	0.98
1:D:1704:ALA:HB1	1:D:1705:PRO:HD2	1.44	0.98
2:E:234:ILE:HG23	2:E:235:PRO:HD3	1.43	0.98
1:A:1060:ILE:HG22	1:A:1079:LYS:HB2	1.46	0.97
1:D:1201:SER:HB3	1:D:1204:ILE:HG13	1.46	0.97
2:E:56:THR:HG23	2:E:59:GLU:HG3	1.43	0.97
1:A:1175:ILE:CG2	1:A:1176:PRO:HA	1.93	0.97
2:B:471:LEU:HG	2:B:472:SER:H	1.28	0.97
1:D:1188:GLN:HG2	1:D:1352:THR:HG21	1.46	0.97
1:D:677:TYR:HE2	1:D:702:LYS:HD2	1.28	0.97
1:G:768:ILE:HG22	1:G:770:PRO:HD3	1.43	0.97
1:D:1604:ILE:HD12	1:D:1630:THR:HB	1.46	0.97
2:H:1266:UNK:HA	2:H:1269:UNK:CB	1.95	0.97
1:A:1201:SER:HB3	1:A:1204:ILE:HG13	1.47	0.97
1:A:677:TYR:HE2	1:A:702:LYS:HD2	1.28	0.97
1:G:1189:ILE:HG22	1:G:1190:PRO:CD	1.93	0.97
1:G:1223:PHE:HE2	1:G:1386:ILE:HG21	1.25	0.97
2:H:169:TYR:HE2	2:H:237:SER:HB2	1.23	0.97
2:E:1724:GLU:HG2	2:E:1726:GLY:H	1.30	0.97
1:A:1404:VAL:HA	1:A:1655:VAL:HG23	1.47	0.96
1:D:1606:PRO:CB	1:D:1627:PRO:HA	1.95	0.96
1:G:1583:HIS:CD2	1:G:1583:HIS:H	1.79	0.96
1:D:1353:LEU:H	1:D:1356:PHE:HB2	1.27	0.96
1:D:1464:GLU:HA	1:D:1467:LEU:HD12	1.42	0.96
1:D:739:GLN:HB3	1:D:794:ILE:HG13	1.47	0.96
1:D:877:LEU:O	1:D:878:MET:HB2	1.65	0.96
2:H:1939:HIS:CG	2:H:1940:LEU:H	1.83	0.96
2:B:258:PHE:HB3	2:B:262:GLU:HB2	1.45	0.96
1:G:808:LYS:HA	1:G:808:LYS:HE3	1.45	0.96
1:A:1107:GLU:HB3	1:A:1108:PRO:CD	1.95	0.96
1:D:1291:LEU:N	1:D:1701:LYS:HD2	1.78	0.96
1:G:1168:LEU:HD22	1:G:1169:LYS:H	1.30	0.96
1:G:1335:PHE:HE1	1:G:1340:SER:HB2	1.26	0.96
2:H:234:ILE:HG23	2:H:235:PRO:HD3	1.42	0.96
1:A:1081:LYS:HG2	1:A:1083:PRO:HD3	1.48	0.96
1:D:1641:ILE:H	1:D:1641:ILE:HD13	1.30	0.96
1:G:1638:ALA:HB1	1:G:1654:ILE:HD11	1.47	0.96
1:A:1103:ILE:HA	1:A:1106:ILE:HD12	1.48	0.96
1:G:1060:ILE:HG22	1:G:1079:LYS:HB2	1.46	0.96
1:D:1697:LEU:H	1:D:1697:LEU:HD12	1.29	0.95
1:G:1075:TRP:O	1:G:1076:VAL:HG13	1.65	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1604:ILE:HD12	1:G:1630:THR:HB	1.47	0.95
2:H:1724:GLU:HG2	2:H:1726:GLY:H	1.29	0.95
2:B:1:MET:HB2	2:B:11:LEU:HB2	1.44	0.95
1:D:1520:ALA:H	1:D:1521:PRO:HD3	1.30	0.95
1:G:1404:VAL:HA	1:G:1655:VAL:HG23	1.46	0.95
1:A:1291:LEU:N	1:A:1701:LYS:HD2	1.80	0.95
1:A:1606:PRO:CB	1:A:1627:PRO:HA	1.97	0.95
1:A:808:LYS:HA	1:A:808:LYS:HE3	1.45	0.95
2:B:1266:UNK:HA	2:B:1269:UNK:CB	1.94	0.95
1:G:1188:GLN:HG2	1:G:1352:THR:HG21	1.44	0.95
1:A:1175:ILE:HG22	1:A:1176:PRO:HA	0.97	0.95
1:D:1389:GLN:HB3	1:D:1392:LEU:HD23	1.48	0.95
2:E:455:ILE:HD12	2:E:469:ARG:HB2	1.43	0.95
1:G:1389:GLN:HB3	1:G:1392:LEU:HD23	1.49	0.95
1:A:1210:PRO:HB3	1:A:1255:SER:HB3	1.48	0.95
1:A:1188:GLN:HG2	1:A:1352:THR:HG21	1.46	0.95
1:G:1067:LEU:HD13	1:G:1068:LYS:H	1.29	0.95
1:G:1107:GLU:HB3	1:G:1108:PRO:CD	1.97	0.95
1:A:1193:TRP:CZ2	1:A:1380:GLN:HB2	2.02	0.95
1:D:1103:ILE:HA	1:D:1106:ILE:HD12	1.44	0.95
1:G:1291:LEU:N	1:G:1701:LYS:HD2	1.80	0.95
1:A:1641:ILE:H	1:A:1641:ILE:HD13	1.31	0.95
2:B:35:GLU:HA	2:B:38:ASN:HD22	1.31	0.95
1:D:1189:ILE:HG22	1:D:1190:PRO:CD	1.96	0.95
1:G:1351:ASN:HD22	1:G:1354:GLU:HB2	1.27	0.95
1:G:1632:LYS:HD2	1:G:1632:LYS:H	1.31	0.95
2:H:1729:ILE:HG23	2:H:1730:ARG:H	1.30	0.95
1:A:1389:GLN:HB3	1:A:1392:LEU:HD23	1.49	0.94
1:D:1107:GLU:HB3	1:D:1108:PRO:CD	1.97	0.94
1:A:1697:LEU:H	1:A:1697:LEU:HD12	1.30	0.94
1:D:1060:ILE:HG22	1:D:1079:LYS:HB2	1.47	0.94
1:G:1201:SER:HB3	1:G:1204:ILE:HG13	1.46	0.94
2:B:403:ASP:OD2	2:B:412:ARG:HG3	1.67	0.94
1:A:1075:TRP:O	1:A:1076:VAL:HG13	1.67	0.94
1:A:1353:LEU:H	1:A:1356:PHE:HB2	1.27	0.94
1:D:1207:GLN:HE21	1:D:1208:VAL:N	1.64	0.94
1:A:1159:GLU:O	1:A:1166:LYS:HD3	1.68	0.94
2:E:35:GLU:HA	2:E:38:ASN:HD22	1.29	0.94
1:A:1067:LEU:HD13	1:A:1068:LYS:H	1.30	0.94
1:G:1606:PRO:CB	1:G:1627:PRO:HA	1.95	0.94
1:A:1108:PRO:HA	1:A:1189:ILE:O	1.66	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1193:TRP:CZ2	1:G:1380:GLN:HB2	2.02	0.94
1:A:1538:VAL:CG2	1:A:1639:VAL:HA	1.98	0.94
1:D:1207:GLN:NE2	1:D:1208:VAL:H	1.65	0.94
1:D:1210:PRO:HB3	1:D:1255:SER:HB3	1.47	0.94
1:A:1596:ALA:O	1:A:1599:ILE:HG12	1.67	0.94
2:H:1775:GLN:HE21	2:H:1836:MET:HG2	1.33	0.94
1:G:1108:PRO:HA	1:G:1189:ILE:O	1.67	0.93
1:A:1117:GLU:O	1:A:1119:LYS:N	2.02	0.93
2:B:319:LEU:HD12	2:B:320:PRO:HD2	1.51	0.93
1:D:1450:ARG:O	1:D:1454:THR:HG22	1.67	0.93
2:E:41:LEU:HD22	2:E:46:GLU:HA	1.50	0.93
1:G:1207:GLN:HE21	1:G:1208:VAL:H	1.12	0.93
1:A:1208:VAL:HA	1:A:1277:GLU:HG2	1.50	0.93
1:G:1520:ALA:H	1:G:1521:PRO:HD3	1.32	0.93
2:H:1784:MET:CE	3:I:21:UNK:HA	1.98	0.93
2:B:1390:UNK:HA	2:B:1408:UNK:HA	1.50	0.93
2:B:46:GLU:HG3	2:B:51:ASP:HB3	1.51	0.93
1:D:1303:GLY:CA	1:D:1649:LYS:HD2	1.99	0.93
1:G:1203:ASP:H	1:G:1205:ILE:HG12	1.33	0.93
1:G:716:ASP:O	1:G:719:GLN:HB3	1.68	0.93
1:A:1732:THR:HG23	1:A:1736:LYS:HB2	1.49	0.93
1:A:877:LEU:O	1:A:878:MET:HB2	1.65	0.93
2:B:1729:ILE:HG23	2:B:1730:ARG:H	1.31	0.93
1:D:1075:TRP:O	1:D:1076:VAL:HG13	1.67	0.93
1:G:1159:GLU:O	1:G:1166:LYS:HD3	1.67	0.93
1:G:1208:VAL:HA	1:G:1277:GLU:HG2	1.49	0.93
1:A:1189:ILE:CG2	1:A:1190:PRO:HD3	1.99	0.93
1:A:1207:GLN:HE21	1:A:1208:VAL:N	1.66	0.93
1:D:1193:TRP:CZ2	1:D:1380:GLN:HB2	2.02	0.93
1:D:1632:LYS:HD2	1:D:1632:LYS:H	1.33	0.93
1:D:1638:ALA:HB1	1:D:1654:ILE:HD11	1.48	0.93
2:E:238:CYS:O	2:E:241:ILE:HG22	1.68	0.93
1:D:1159:GLU:O	1:D:1166:LYS:HD3	1.68	0.93
2:E:1729:ILE:HG23	2:E:1730:ARG:H	1.32	0.93
1:G:1210:PRO:HB3	1:G:1255:SER:HB3	1.48	0.93
1:G:739:GLN:HB3	1:G:794:ILE:HG13	1.49	0.93
1:A:1303:GLY:HA2	1:A:1649:LYS:HD2	1.51	0.93
1:D:710:PHE:HE1	1:D:736:PRO:HD3	1.33	0.93
1:A:1114:TYR:HB3	1:A:1115:ASN:ND2	1.82	0.93
1:A:739:GLN:HB3	1:A:794:ILE:HG13	1.48	0.93
1:G:1081:LYS:HG2	1:G:1083:PRO:HD3	1.49	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1175:ILE:HG22	1:G:1176:PRO:HA	0.96	0.93
1:A:1243:VAL:HA	1:A:1324:ALA:HB1	1.51	0.93
1:D:1108:PRO:HA	1:D:1189:ILE:O	1.69	0.93
1:D:1114:TYR:HB3	1:D:1115:ASN:ND2	1.84	0.93
1:D:1208:VAL:HA	1:D:1277:GLU:HG2	1.49	0.93
1:D:1175:ILE:HG22	1:D:1176:PRO:HA	0.96	0.92
2:E:319:LEU:HD12	2:E:320:PRO:HD2	1.50	0.92
1:D:1174:TYR:O	1:D:1175:ILE:HD12	1.69	0.92
1:G:1596:ALA:O	1:G:1599:ILE:HG12	1.67	0.92
1:G:692:VAL:O	1:G:696:LEU:HD23	1.69	0.92
1:D:1203:ASP:H	1:D:1205:ILE:HG12	1.32	0.92
1:G:1430:ARG:HG2	1:G:1431:GLU:N	1.82	0.92
1:A:1168:LEU:HD22	1:A:1169:LYS:H	1.35	0.92
1:A:1174:TYR:O	1:A:1175:ILE:HD12	1.69	0.92
2:B:2022:UNK:C	2:B:2024:UNK:H	1.82	0.92
1:D:1067:LEU:HD13	1:D:1068:LYS:H	1.30	0.92
2:B:238:CYS:O	2:B:241:ILE:HG22	1.70	0.92
1:D:1596:ALA:O	1:D:1599:ILE:HG12	1.70	0.92
1:G:1398:VAL:HG13	1:G:1399:PRO:CA	1.99	0.92
1:G:1450:ARG:O	1:G:1454:THR:HG22	1.69	0.92
2:H:35:GLU:HA	2:H:38:ASN:HD22	1.31	0.92
1:A:1203:ASP:H	1:A:1205:ILE:CG1	1.82	0.92
1:A:1430:ARG:HG2	1:A:1431:GLU:N	1.83	0.92
1:A:1520:ALA:H	1:A:1521:PRO:HD3	1.34	0.92
1:A:1638:ALA:HB1	1:A:1654:ILE:HD11	1.48	0.92
2:E:1775:GLN:HE21	2:E:1836:MET:HG2	1.33	0.92
1:G:1207:GLN:HE21	1:G:1208:VAL:N	1.67	0.92
1:A:1614:VAL:O	1:A:1615:ASP:HB3	1.70	0.92
1:G:1114:TYR:HB3	1:G:1115:ASN:ND2	1.84	0.92
2:E:2022:UNK:C	2:E:2024:UNK:H	1.81	0.92
1:G:1189:ILE:CG2	1:G:1190:PRO:HD3	1.99	0.92
1:G:877:LEU:O	1:G:878:MET:HB2	1.66	0.92
1:A:1207:GLN:NE2	1:A:1208:VAL:H	1.67	0.92
2:E:1939:HIS:CG	2:E:1940:LEU:H	1.86	0.92
2:E:403:ASP:OD2	2:E:412:ARG:HG3	1.68	0.92
2:H:41:LEU:HD22	2:H:46:GLU:HA	1.51	0.92
2:H:1784:MET:HE3	3:I:21:UNK:HA	1.52	0.92
1:A:1379:ALA:H	1:A:1583:HIS:HB3	1.35	0.92
2:B:41:LEU:HD22	2:B:46:GLU:HA	1.49	0.92
1:D:1081:LYS:HG2	1:D:1083:PRO:HD3	1.49	0.92
1:D:1583:HIS:CD2	1:D:1583:HIS:H	1.82	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1732:THR:HG23	1:D:1736:LYS:HB2	1.52	0.92
1:G:1203:ASP:H	1:G:1205:ILE:CG1	1.82	0.92
1:G:1732:THR:HG23	1:G:1736:LYS:HB2	1.51	0.92
1:A:1203:ASP:H	1:A:1205:ILE:HG12	1.31	0.91
1:A:1332:TYR:N	1:A:1587:ALA:HB2	1.84	0.91
1:G:1174:TYR:O	1:G:1175:ILE:HD12	1.70	0.91
1:G:1641:ILE:HD13	1:G:1641:ILE:H	1.33	0.91
2:E:46:GLU:HG3	2:E:51:ASP:HB3	1.52	0.91
1:G:1329:VAL:HG13	1:G:1330:GLY:H	1.36	0.91
1:G:1579:PHE:O	1:G:1580:LEU:HB3	1.70	0.91
1:A:1022:THR:HG22	1:A:1226:SER:CB	1.99	0.91
1:D:1303:GLY:HA2	1:D:1649:LYS:HD2	1.51	0.91
1:A:1207:GLN:HE21	1:A:1208:VAL:H	1.10	0.91
1:A:1398:VAL:HG13	1:A:1399:PRO:CA	2.01	0.91
1:A:1450:ARG:O	1:A:1454:THR:HG22	1.70	0.91
1:D:1168:LEU:HD22	1:D:1169:LYS:H	1.34	0.91
2:E:1390:UNK:HA	2:E:1408:UNK:HA	1.51	0.91
1:G:1332:TYR:N	1:G:1587:ALA:HB2	1.85	0.91
1:G:1243:VAL:HA	1:G:1324:ALA:HB1	1.50	0.91
1:A:1303:GLY:CA	1:A:1649:LYS:HD2	2.01	0.91
1:D:1404:VAL:HA	1:D:1655:VAL:HG23	1.51	0.91
2:E:145:LEU:HD13	2:E:551:UNK:HA	1.53	0.91
1:G:1131:LEU:HB2	1:G:1133:PRO:HD3	1.51	0.91
1:G:1714:VAL:HG11	1:G:1731:LEU:HD13	1.53	0.91
1:A:1628:SER:O	1:A:1630:THR:N	2.03	0.91
1:D:1203:ASP:H	1:D:1205:ILE:CG1	1.83	0.91
2:E:1864:ALA:C	2:E:1866:PHE:H	1.70	0.91
2:B:157:VAL:HG13	2:B:269:GLY:HA3	1.53	0.90
1:D:1079:LYS:HD2	1:D:1098:LEU:CD2	2.01	0.90
1:G:1538:VAL:CG2	1:G:1639:VAL:HA	1.99	0.90
1:G:1303:GLY:CA	1:G:1649:LYS:HD2	2.00	0.90
2:H:157:VAL:HG13	2:H:269:GLY:HA3	1.52	0.90
1:A:1022:THR:HG21	1:A:1388:MET:HE2	1.52	0.90
1:D:1369:ALA:HA	1:D:1547:LYS:HD2	1.54	0.90
2:E:404:GLN:HG3	2:E:408:PRO:HG3	1.54	0.90
1:A:1632:LYS:H	1:A:1632:LYS:HD2	1.33	0.90
1:D:1022:THR:HG21	1:D:1388:MET:HE2	1.52	0.90
1:D:1158:PRO:HG2	1:D:1159:GLU:H	1.35	0.90
1:A:1189:ILE:HG23	1:A:1377:MET:SD	2.12	0.90
1:A:692:VAL:O	1:A:696:LEU:HD23	1.71	0.90
1:D:1131:LEU:HB2	1:D:1133:PRO:HD3	1.53	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1454:THR:HG23	1:G:1455:ARG:N	1.86	0.90
1:G:1583:HIS:H	1:G:1583:HIS:HD2	1.17	0.90
1:A:1189:ILE:HD11	1:A:1352:THR:HG23	1.54	0.90
1:A:1329:VAL:HG13	1:A:1330:GLY:H	1.37	0.90
2:B:1307:UNK:CB	2:E:317:THR:HG23	2.02	0.90
2:B:1939:HIS:CG	2:B:1940:LEU:H	1.86	0.90
1:D:1022:THR:HG22	1:D:1226:SER:CB	2.02	0.90
1:D:1430:ARG:HG2	1:D:1431:GLU:N	1.83	0.90
2:B:1880:LYS:HD3	2:B:1899:VAL:CG1	2.01	0.90
1:D:1398:VAL:HG13	1:D:1399:PRO:CA	2.02	0.90
2:E:1690:VAL:HG21	2:E:1787:ALA:HA	1.54	0.90
1:G:1263:ASP:O	1:G:1264:ARG:HB2	1.71	0.90
1:D:1614:VAL:O	1:D:1615:ASP:HB3	1.71	0.90
2:H:46:GLU:HG3	2:H:51:ASP:HB3	1.52	0.90
2:B:238:CYS:HA	2:B:275:GLN:NE2	1.87	0.90
2:B:1715:VAL:HG22	2:B:1716:ASN:H	1.37	0.90
2:H:1390:UNK:HA	2:H:1408:UNK:HA	1.50	0.90
2:H:403:ASP:OD2	2:H:412:ARG:HG3	1.69	0.90
1:A:1132:GLU:N	1:A:1133:PRO:HD3	1.86	0.89
1:A:1452:LEU:O	1:A:1456:GLU:HB2	1.72	0.89
1:A:1583:HIS:HD2	1:A:1583:HIS:H	1.18	0.89
2:E:1709:ILE:HD11	2:E:1719:ILE:HD11	1.54	0.89
2:E:29:ILE:HG13	2:E:61:VAL:HG22	1.54	0.89
1:G:1067:LEU:CD1	1:G:1068:LYS:H	1.85	0.89
2:H:1864:ALA:C	2:H:1866:PHE:H	1.70	0.89
2:H:319:LEU:HD12	2:H:320:PRO:HD2	1.51	0.89
1:A:1452:LEU:HA	1:A:1456:GLU:HG3	1.53	0.89
2:H:2022:UNK:C	2:H:2024:UNK:H	1.81	0.89
1:A:1462:TRP:HZ3	1:A:1466:GLU:HB2	1.38	0.89
1:A:1476:GLU:O	1:A:1477:ILE:HG12	1.72	0.89
1:A:1353:LEU:N	1:A:1356:PHE:HB2	1.87	0.89
1:D:1452:LEU:HA	1:D:1456:GLU:HG3	1.53	0.89
1:G:1079:LYS:HD2	1:G:1098:LEU:CD2	2.02	0.89
1:A:1369:ALA:HA	1:A:1547:LYS:HD2	1.52	0.89
1:D:1189:ILE:CG2	1:D:1190:PRO:HD3	2.01	0.89
1:D:1243:VAL:HA	1:D:1324:ALA:HB1	1.52	0.89
1:D:1659:ASP:HA	1:D:1662:TYR:CD2	2.07	0.89
1:G:1207:GLN:NE2	1:G:1208:VAL:H	1.69	0.89
1:G:1303:GLY:HA2	1:G:1649:LYS:HD2	1.52	0.89
2:B:720:UNK:O	2:B:722:UNK:N	2.06	0.89
1:D:1207:GLN:HE21	1:D:1208:VAL:H	1.08	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1329:VAL:HG13	1:D:1330:GLY:H	1.38	0.89
1:A:1454:THR:HG23	1:A:1455:ARG:N	1.86	0.89
1:A:1714:VAL:HG11	1:A:1731:LEU:HD13	1.53	0.89
2:B:145:LEU:HD13	2:B:551:UNK:HA	1.52	0.89
1:D:1302:VAL:HG23	1:D:1649:LYS:HE3	1.54	0.89
1:D:716:ASP:O	1:D:719:GLN:HB3	1.72	0.89
2:H:145:LEU:HD13	2:H:551:UNK:HA	1.53	0.89
1:A:1579:PHE:O	1:A:1580:LEU:HB3	1.72	0.89
1:D:1353:LEU:N	1:D:1356:PHE:HB2	1.87	0.89
1:D:1422:GLY:CA	1:D:1425:ILE:HB	2.02	0.89
1:D:653:UNK:HA	1:D:656:UNK:CB	2.03	0.89
2:E:157:VAL:HG13	2:E:269:GLY:HA3	1.54	0.89
1:G:1628:SER:O	1:G:1630:THR:N	2.05	0.89
1:A:1659:ASP:HA	1:A:1662:TYR:CD2	2.07	0.89
1:A:586:UNK:CB	1:A:671:VAL:H	1.86	0.88
2:B:349:VAL:HG21	2:B:377:LEU:HD13	1.54	0.88
1:G:1659:ASP:HA	1:G:1662:TYR:CD2	2.09	0.88
2:H:1690:VAL:HG21	2:H:1787:ALA:HA	1.53	0.88
1:D:1132:GLU:N	1:D:1133:PRO:HD3	1.89	0.88
1:D:1257:LEU:O	1:D:1260:MET:HB2	1.72	0.88
1:D:1454:THR:HG23	1:D:1455:ARG:N	1.88	0.88
1:G:1452:LEU:HA	1:G:1456:GLU:HG3	1.54	0.88
2:H:483:ILE:HG22	2:H:484:ILE:N	1.87	0.88
2:B:1775:GLN:HE21	2:B:1836:MET:HG2	1.35	0.88
1:D:1541:PHE:O	1:D:1542:HIS:HB3	1.73	0.88
1:D:1711:GLU:HG2	1:D:1715:TYR:CE1	2.08	0.88
1:A:1060:ILE:HA	1:A:1079:LYS:HA	1.56	0.88
1:A:1067:LEU:CD1	1:A:1068:LYS:H	1.86	0.88
1:A:716:ASP:O	1:A:719:GLN:HB3	1.72	0.88
2:B:87:CYS:HA	2:B:90:GLU:HB3	1.53	0.88
1:D:1628:SER:O	1:D:1630:THR:N	2.04	0.88
2:E:1715:VAL:HG22	2:E:1716:ASN:H	1.37	0.88
1:G:1132:GLU:N	1:G:1133:PRO:HD3	1.88	0.88
1:G:1353:LEU:N	1:G:1356:PHE:HB2	1.87	0.88
1:G:1665:ILE:HD12	1:G:1669:ARG:H	1.38	0.88
1:D:1476:GLU:O	1:D:1477:ILE:HG12	1.73	0.88
1:D:1379:ALA:H	1:D:1583:HIS:HB3	1.37	0.88
1:D:1538:VAL:CG2	1:D:1639:VAL:HA	2.01	0.88
1:G:1405:ALA:HB3	1:G:1654:ILE:O	1.72	0.88
2:H:199:ILE:HG23	2:H:200:ARG:H	1.38	0.88
1:A:1114:TYR:C	1:A:1115:ASN:HD22	1.76	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1118:LYS:HE3	1:A:1120:GLU:CD	1.94	0.88
1:A:1131:LEU:HB2	1:A:1133:PRO:HD3	1.53	0.88
1:D:1189:ILE:HD11	1:D:1352:THR:HG23	1.54	0.88
1:D:1408:ALA:O	1:D:1409:THR:HG22	1.74	0.88
1:G:1422:GLY:CA	1:G:1425:ILE:HB	2.03	0.88
1:A:653:UNK:HA	1:A:656:UNK:CB	2.04	0.88
1:D:1060:ILE:HA	1:D:1079:LYS:HA	1.55	0.88
1:D:1118:LYS:HE2	1:D:1337:GLU:HA	1.56	0.88
2:E:199:ILE:HG23	2:E:200:ARG:H	1.37	0.88
2:E:242:GLY:HA2	2:E:245:GLN:HE21	1.38	0.88
1:G:1541:PHE:O	1:G:1542:HIS:HB3	1.72	0.88
2:H:1715:VAL:CB	2:H:1770:LEU:H	1.85	0.88
2:H:238:CYS:O	2:H:241:ILE:HG22	1.73	0.88
1:A:1158:PRO:HG2	1:A:1159:GLU:H	1.36	0.88
1:A:1167:LEU:O	1:A:1168:LEU:HB2	1.72	0.88
2:B:1690:VAL:HG21	2:B:1787:ALA:HA	1.55	0.88
2:B:199:ILE:HG23	2:B:200:ARG:H	1.39	0.88
2:B:483:ILE:HG22	2:B:484:ILE:N	1.88	0.88
1:D:1263:ASP:O	1:D:1264:ARG:HB2	1.72	0.88
1:D:1452:LEU:O	1:D:1456:GLU:HB2	1.74	0.88
1:G:1117:GLU:O	1:G:1119:LYS:N	2.07	0.88
1:G:1189:ILE:HG23	1:G:1377:MET:SD	2.14	0.88
1:G:1452:LEU:O	1:G:1456:GLU:HB2	1.73	0.88
1:G:905:LEU:H	1:G:905:LEU:HD22	1.37	0.88
1:A:1211:ILE:O	1:A:1213:LEU:N	2.06	0.88
1:D:1583:HIS:HD2	1:D:1583:HIS:H	1.19	0.88
2:E:238:CYS:HA	2:E:275:GLN:NE2	1.89	0.88
2:E:387:TYR:HA	2:E:390:ASN:HD22	1.37	0.88
1:G:1408:ALA:O	1:G:1409:THR:HG22	1.72	0.88
2:H:238:CYS:HA	2:H:275:GLN:NE2	1.89	0.88
2:H:387:TYR:HA	2:H:390:ASN:HD22	1.39	0.88
1:A:1541:PHE:O	1:A:1542:HIS:HB3	1.73	0.87
1:G:1158:PRO:HG2	1:G:1159:GLU:H	1.38	0.87
1:G:1211:ILE:O	1:G:1213:LEU:N	2.07	0.87
2:H:242:GLY:HA2	2:H:245:GLN:HE21	1.37	0.87
1:A:1302:VAL:HG23	1:A:1649:LYS:HE3	1.54	0.87
1:D:1189:ILE:HG23	1:D:1377:MET:SD	2.13	0.87
1:D:1506:GLN:HA	1:D:1510:ASN:HD22	1.40	0.87
1:D:1332:TYR:N	1:D:1587:ALA:HB2	1.87	0.87
1:G:1476:GLU:O	1:G:1477:ILE:HG12	1.74	0.87
2:B:109:LEU:HD11	2:B:533:LEU:HA	1.54	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1254:VAL:HG22	1:D:1255:SER:H	1.40	0.87
1:G:1614:VAL:O	1:G:1615:ASP:HB3	1.74	0.87
1:A:1501:LEU:HD22	1:A:1505:GLN:HE21	1.39	0.87
1:D:586:UNK:CB	1:D:671:VAL:H	1.88	0.87
2:E:349:VAL:HG21	2:E:377:LEU:HD13	1.56	0.87
1:G:556:UNK:O	1:G:558:UNK:N	2.08	0.87
2:E:483:ILE:HG22	2:E:484:ILE:N	1.88	0.87
2:E:503:ASP:O	2:E:528:ILE:HG12	1.74	0.87
2:H:29:ILE:HG13	2:H:61:VAL:HG22	1.54	0.87
2:B:503:ASP:O	2:B:528:ILE:HG12	1.73	0.87
1:D:1579:PHE:O	1:D:1580:LEU:HB3	1.73	0.87
2:E:1715:VAL:CB	2:E:1770:LEU:H	1.88	0.87
1:G:1118:LYS:HE3	1:G:1120:GLU:CD	1.93	0.87
1:G:1291:LEU:H	1:G:1701:LYS:CD	1.88	0.87
1:G:586:UNK:CB	1:G:671:VAL:H	1.88	0.87
1:A:1079:LYS:HD2	1:A:1098:LEU:CD2	2.03	0.87
1:A:1422:GLY:CA	1:A:1425:ILE:HB	2.04	0.87
1:A:1711:GLU:HG2	1:A:1715:TYR:CE1	2.08	0.87
2:B:1704:PHE:HB2	2:B:1719:ILE:HD13	1.57	0.87
2:B:404:GLN:HG3	2:B:408:PRO:HG3	1.54	0.87
2:E:344:LEU:HD13	2:E:345:THR:H	1.40	0.87
2:H:236:ILE:O	2:H:240:LEU:HD13	1.74	0.87
1:A:1280:ILE:N	1:A:1280:ILE:HD12	1.90	0.87
2:B:1864:ALA:C	2:B:1866:PHE:H	1.72	0.87
2:E:87:CYS:HA	2:E:90:GLU:HB3	1.55	0.87
1:D:1385:GLN:NE2	1:D:1593:MET:HG3	1.90	0.87
1:D:1714:VAL:HG11	1:D:1731:LEU:HD13	1.54	0.87
2:E:241:ILE:HG21	2:E:275:GLN:NE2	1.88	0.87
1:G:1189:ILE:HD11	1:G:1352:THR:HG23	1.55	0.87
2:H:87:CYS:HA	2:H:90:GLU:HB3	1.54	0.87
2:B:260:PRO:HG3	2:B:292:PHE:HB2	1.57	0.86
2:B:387:TYR:HA	2:B:390:ASN:HD22	1.39	0.86
1:D:1063:HIS:C	1:D:1065:GLY:N	2.28	0.86
1:D:1665:ILE:HD12	1:D:1669:ARG:H	1.39	0.86
2:E:720:UNK:O	2:E:722:UNK:N	2.08	0.86
1:A:1299:LYS:HZ1	1:A:1323:LYS:HZ1	1.20	0.86
1:A:1665:ILE:HD12	1:A:1669:ARG:H	1.38	0.86
1:D:1462:TRP:HZ3	1:D:1466:GLU:HB2	1.39	0.86
1:D:1583:HIS:ND1	1:D:1585:LYS:N	2.23	0.86
1:D:1406:MET:O	1:D:1653:ALA:HB1	1.76	0.86
2:E:1880:LYS:HD3	2:E:1899:VAL:CG1	2.04	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1292:ILE:O	1:G:1292:ILE:HG12	1.74	0.86
1:G:1369:ALA:HA	1:G:1547:LYS:HD2	1.57	0.86
1:G:1711:GLU:HG2	1:G:1715:TYR:CE1	2.10	0.86
2:B:29:ILE:HG13	2:B:61:VAL:HG22	1.54	0.86
2:E:433:VAL:H	2:E:434:PRO:HD2	1.40	0.86
1:G:1022:THR:HG22	1:G:1226:SER:CB	2.02	0.86
1:G:1208:VAL:HA	1:G:1277:GLU:CG	2.05	0.86
1:G:1280:ILE:HD12	1:G:1280:ILE:N	1.91	0.86
2:H:1715:VAL:HG22	2:H:1716:ASN:H	1.38	0.86
1:D:1280:ILE:N	1:D:1280:ILE:HD12	1.89	0.86
1:A:1223:PHE:CE2	1:A:1386:ILE:HG21	2.08	0.86
2:B:41:LEU:HB3	2:B:46:GLU:H	1.40	0.86
1:D:1079:LYS:HD2	1:D:1098:LEU:HD21	1.57	0.86
2:E:109:LEU:HD11	2:E:533:LEU:HA	1.56	0.86
1:G:1379:ALA:H	1:G:1583:HIS:HB3	1.37	0.86
1:G:1396:MET:HA	1:G:1676:LYS:CD	2.06	0.86
2:H:433:VAL:H	2:H:434:PRO:HD2	1.39	0.86
1:A:1506:GLN:HA	1:A:1510:ASN:HD22	1.39	0.86
1:D:1067:LEU:CD1	1:D:1068:LYS:H	1.87	0.86
1:G:653:UNK:HA	1:G:656:UNK:CB	2.05	0.86
1:A:1263:ASP:O	1:A:1264:ARG:HB2	1.74	0.86
1:A:710:PHE:HE1	1:A:736:PRO:HD3	1.39	0.86
2:B:1709:ILE:HD11	2:B:1719:ILE:HD11	1.56	0.86
1:D:1211:ILE:O	1:D:1213:LEU:N	2.08	0.86
1:A:1408:ALA:O	1:A:1409:THR:HG22	1.75	0.86
1:G:710:PHE:HE1	1:G:736:PRO:HD3	1.36	0.86
2:H:404:GLN:HG3	2:H:408:PRO:HG3	1.56	0.86
1:A:1070:ARG:HG3	1:A:1071:PRO:HD2	1.58	0.86
1:A:1257:LEU:O	1:A:1260:MET:HB2	1.74	0.86
1:A:556:UNK:O	1:A:558:UNK:N	2.08	0.86
1:D:692:VAL:O	1:D:696:LEU:HD23	1.75	0.86
1:D:700:GLY:HA2	1:D:727:ALA:HB3	1.57	0.86
1:A:1208:VAL:HA	1:A:1277:GLU:CG	2.06	0.86
1:A:920:SER:HB2	1:A:921:PRO:HD2	1.58	0.86
2:B:1138:UNK:HA	2:B:1195:UNK:CB	2.06	0.86
1:D:1473:GLU:O	1:D:1476:GLU:HB3	1.76	0.86
2:E:1903:ASP:OD1	2:E:1907:LEU:HD21	1.76	0.86
1:G:1114:TYR:C	1:G:1115:ASN:HD22	1.79	0.86
1:G:1462:TRP:HZ3	1:G:1466:GLU:HB2	1.39	0.86
1:G:1583:HIS:ND1	1:G:1585:LYS:N	2.24	0.86
2:H:109:LEU:HD11	2:H:533:LEU:HA	1.58	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:1880:LYS:HD3	2:H:1899:VAL:CG1	2.05	0.86
2:H:503:ASP:O	2:H:528:ILE:HG12	1.75	0.86
1:A:1062:TYR:HE2	1:A:1693:ILE:HD12	1.40	0.85
2:B:1880:LYS:HD3	2:B:1899:VAL:HG13	1.58	0.85
2:B:236:ILE:O	2:B:240:LEU:HD13	1.75	0.85
2:B:242:GLY:HA2	2:B:245:GLN:HE21	1.40	0.85
1:D:1067:LEU:HD21	1:D:1073:THR:CA	2.06	0.85
2:E:1704:PHE:HB2	2:E:1719:ILE:HD13	1.57	0.85
2:E:41:LEU:HB3	2:E:46:GLU:H	1.40	0.85
1:G:1506:GLN:HA	1:G:1510:ASN:HD22	1.38	0.85
2:H:2047:UNK:C	2:H:2049:UNK:H	1.88	0.85
2:B:85:ASN:HD21	2:B:134:LYS:HB2	1.41	0.85
2:B:67:TYR:C	2:B:69:SER:H	1.77	0.85
1:D:1167:LEU:O	1:D:1168:LEU:HB2	1.76	0.85
1:G:1223:PHE:CE2	1:G:1386:ILE:HG21	2.10	0.85
2:B:344:LEU:HD13	2:B:345:THR:H	1.42	0.85
1:D:1201:SER:HB3	1:D:1204:ILE:CG1	2.07	0.85
1:D:1208:VAL:HA	1:D:1277:GLU:CG	2.05	0.85
2:E:67:TYR:C	2:E:69:SER:H	1.77	0.85
1:G:1118:LYS:HE2	1:G:1337:GLU:HA	1.58	0.85
1:G:1167:LEU:O	1:G:1168:LEU:HB2	1.73	0.85
2:H:1138:UNK:HA	2:H:1195:UNK:CB	2.07	0.85
1:A:1473:GLU:O	1:A:1476:GLU:HB3	1.75	0.85
1:D:1070:ARG:HG3	1:D:1071:PRO:HD2	1.58	0.85
1:D:920:SER:HB2	1:D:921:PRO:HD2	1.58	0.85
1:G:1302:VAL:HG23	1:G:1649:LYS:HE3	1.57	0.85
1:G:1062:TYR:HE2	1:G:1693:ILE:HD12	1.40	0.85
1:A:1131:LEU:N	1:A:1173:LEU:HD22	1.91	0.85
1:D:905:LEU:HD22	1:D:905:LEU:H	1.41	0.85
1:G:1060:ILE:HA	1:G:1079:LYS:HA	1.56	0.85
1:G:1169:LYS:HG3	1:G:1170:GLY:H	1.39	0.85
1:G:681:THR:HB	1:G:771:PHE:N	1.91	0.85
2:H:1812:TYR:HD2	2:H:1812:TYR:H	1.24	0.85
1:D:1169:LYS:HG3	1:D:1170:GLY:H	1.37	0.85
1:D:1291:LEU:H	1:D:1701:LYS:CD	1.86	0.85
1:D:681:THR:HB	1:D:771:PHE:N	1.90	0.85
1:G:1151:LYS:HE3	1:G:1175:ILE:HD13	1.59	0.85
2:H:720:UNK:O	2:H:722:UNK:N	2.10	0.85
1:D:556:UNK:O	1:D:558:UNK:N	2.10	0.85
1:D:869:ILE:HG23	1:D:926:LEU:HB2	1.59	0.85
2:E:236:ILE:O	2:E:240:LEU:HD13	1.75	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1329:VAL:HG13	1:G:1330:GLY:N	1.91	0.85
1:A:1063:HIS:C	1:A:1065:GLY:N	2.28	0.85
1:A:1291:LEU:H	1:A:1701:LYS:CD	1.88	0.85
1:A:1456:GLU:H	1:A:1459:ILE:CG1	1.90	0.85
1:A:1406:MET:O	1:A:1653:ALA:HB1	1.76	0.85
1:A:905:LEU:HD22	1:A:905:LEU:H	1.42	0.85
2:E:260:PRO:HG3	2:E:292:PHE:HB2	1.58	0.85
1:G:1107:GLU:HB3	1:G:1108:PRO:HD3	1.59	0.85
2:B:433:VAL:H	2:B:434:PRO:HD2	1.39	0.85
1:D:1184:LEU:HD22	1:D:1341:PHE:HD2	1.42	0.85
1:D:1062:TYR:HE2	1:D:1693:ILE:HD12	1.40	0.85
1:A:1396:MET:HA	1:A:1676:LYS:CD	2.07	0.85
1:A:1235:TYR:O	1:A:1721:ARG:HA	1.77	0.85
1:A:826:MET:HB2	1:A:868:ILE:HA	1.58	0.85
1:G:1558:ASN:CG	1:G:1620:GLN:HB3	1.96	0.85
1:A:1329:VAL:HG13	1:A:1330:GLY:N	1.92	0.84
1:A:700:GLY:HA2	1:A:727:ALA:HB3	1.59	0.84
1:D:1118:LYS:HE3	1:D:1120:GLU:CD	1.96	0.84
1:D:1117:GLU:O	1:D:1119:LYS:N	2.10	0.84
1:A:1107:GLU:HB3	1:A:1108:PRO:HD3	1.60	0.84
1:D:1114:TYR:C	1:D:1115:ASN:HD22	1.79	0.84
1:D:1501:LEU:HD22	1:D:1505:GLN:HE21	1.42	0.84
1:G:993:PRO:HG3	1:G:1681:GLU:HB3	1.60	0.84
1:A:1178:ALA:O	1:A:1179:LEU:HD22	1.76	0.84
1:A:1302:VAL:O	1:A:1307:THR:HB	1.77	0.84
1:D:1223:PHE:CE2	1:D:1386:ILE:HG21	2.12	0.84
1:D:1639:VAL:HG22	1:D:1655:VAL:O	1.77	0.84
1:D:1235:TYR:O	1:D:1721:ARG:HA	1.77	0.84
2:H:1903:ASP:OD1	2:H:1907:LEU:HD21	1.77	0.84
2:B:241:ILE:HG21	2:B:275:GLN:NE2	1.91	0.84
1:A:1081:LYS:HD3	1:A:1081:LYS:H	1.43	0.84
1:D:1292:ILE:O	1:D:1292:ILE:HG12	1.78	0.84
1:A:1659:ASP:HA	1:A:1662:TYR:HD2	1.43	0.84
2:B:187:LEU:HD21	2:B:296:VAL:HG21	1.59	0.84
2:E:2047:UNK:C	2:E:2049:UNK:H	1.89	0.84
1:G:1385:GLN:NE2	1:G:1593:MET:HG3	1.92	0.84
2:H:349:VAL:HG21	2:H:377:LEU:HD13	1.57	0.84
2:H:92:GLU:HA	2:H:96:LEU:HD11	1.60	0.84
2:B:92:GLU:HA	2:B:96:LEU:HD11	1.59	0.84
1:G:1070:ARG:HG3	1:G:1071:PRO:HD2	1.59	0.84
1:G:700:GLY:HA2	1:G:727:ALA:HB3	1.59	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:241:ILE:HG21	2:H:275:GLN:NE2	1.92	0.84
1:D:1456:GLU:H	1:D:1459:ILE:CG1	1.91	0.84
1:G:1257:LEU:O	1:G:1260:MET:HB2	1.78	0.84
1:A:1201:SER:HB3	1:A:1204:ILE:CG1	2.08	0.84
2:B:1715:VAL:CB	2:B:1770:LEU:H	1.89	0.84
1:D:677:TYR:CE2	1:D:702:LYS:HD2	2.12	0.84
2:E:241:ILE:CG2	2:E:275:GLN:HE21	1.89	0.84
1:G:1067:LEU:HD21	1:G:1073:THR:CA	2.08	0.84
1:G:1106:ILE:O	1:G:1107:GLU:HB2	1.77	0.84
1:G:587:UNK:CB	1:G:906:LEU:HD21	2.08	0.84
2:H:260:PRO:HG3	2:H:292:PHE:HB2	1.58	0.84
1:A:1128:GLU:HB3	1:A:1177:LYS:HE3	1.59	0.83
1:A:1558:ASN:CG	1:A:1620:GLN:HB3	1.99	0.83
1:A:869:ILE:HG23	1:A:926:LEU:HB2	1.60	0.83
2:B:1899:VAL:O	2:B:1903:ASP:HB3	1.78	0.83
2:B:367:GLU:O	2:B:379:VAL:HG13	1.78	0.83
1:D:1290:LEU:HA	1:D:1701:LYS:HZ2	1.43	0.83
1:D:1410:ALA:HB3	1:D:1426:LEU:HB2	1.60	0.83
1:D:993:PRO:HG3	1:D:1681:GLU:HB3	1.59	0.83
2:E:483:ILE:HG22	2:E:484:ILE:HG23	1.59	0.83
1:G:1473:GLU:O	1:G:1476:GLU:HB3	1.77	0.83
1:G:1235:TYR:O	1:G:1721:ARG:HA	1.77	0.83
1:G:828:PRO:HG2	1:G:829:ASN:ND2	1.92	0.83
2:H:367:GLU:O	2:H:379:VAL:HG13	1.78	0.83
1:A:1299:LYS:NZ	1:A:1323:LYS:HZ1	1.76	0.83
1:D:1581:THR:HG22	1:D:1591:TRP:CZ3	2.13	0.83
2:E:1138:UNK:HA	2:E:1195:UNK:CB	2.07	0.83
2:E:85:ASN:HD21	2:E:134:LYS:HB2	1.43	0.83
1:G:1535:ASP:HB2	1:G:1566:ARG:NH2	1.93	0.83
1:G:756:GLU:HA	1:G:760:GLY:HA2	1.59	0.83
1:A:1067:LEU:HD21	1:A:1073:THR:CA	2.07	0.83
1:A:828:PRO:HG2	1:A:829:ASN:ND2	1.93	0.83
1:D:1104:ARG:HA	1:D:1104:ARG:NE	1.93	0.83
1:G:1254:VAL:HG22	1:G:1255:SER:H	1.41	0.83
1:A:1246:CYS:CB	1:A:1328:ILE:HG23	2.08	0.83
1:A:1639:VAL:HG22	1:A:1655:VAL:O	1.78	0.83
2:B:240:LEU:O	2:B:244:ILE:HG13	1.78	0.83
1:D:756:GLU:HA	1:D:760:GLY:HA2	1.59	0.83
1:D:826:MET:HB2	1:D:868:ILE:HA	1.61	0.83
1:D:999:LYS:HB2	1:D:1666:THR:O	1.78	0.83
1:G:1406:MET:O	1:G:1653:ALA:HB1	1.78	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:1704:PHE:HB2	2:H:1719:ILE:HD13	1.57	0.83
1:A:677:TYR:CE2	1:A:702:LYS:HD2	2.12	0.83
1:A:681:THR:HB	1:A:771:PHE:N	1.93	0.83
1:D:1246:CYS:CB	1:D:1328:ILE:HG23	2.08	0.83
1:G:677:TYR:CE2	1:G:702:LYS:HD2	2.13	0.83
1:G:907:GLY:C	1:G:909:LEU:H	1.80	0.83
2:H:221:ASN:HD22	2:H:221:ASN:H	1.26	0.83
2:B:234:ILE:HG23	2:B:235:PRO:CD	2.08	0.83
1:D:1081:LYS:H	1:D:1081:LYS:HD3	1.43	0.83
1:D:1106:ILE:O	1:D:1107:GLU:HB2	1.77	0.83
1:G:1024:PHE:HB2	1:G:1385:GLN:HG2	1.60	0.83
1:G:1535:ASP:HB2	1:G:1566:ARG:CZ	2.09	0.83
2:B:1903:ASP:OD1	2:B:1907:LEU:HD21	1.79	0.83
2:B:241:ILE:CG2	2:B:275:GLN:HE21	1.91	0.83
1:D:1151:LYS:HE3	1:D:1175:ILE:HD13	1.59	0.83
1:D:1236:LYS:O	1:D:1236:LYS:HG3	1.78	0.83
1:D:424:UNK:CB	1:D:786:SER:HA	2.09	0.83
1:G:1254:VAL:O	1:G:1256:ALA:N	2.12	0.83
1:A:1410:ALA:HB3	1:A:1426:LEU:HB2	1.60	0.83
1:G:1456:GLU:H	1:G:1459:ILE:CG1	1.92	0.83
2:H:85:ASN:HD21	2:H:134:LYS:HB2	1.43	0.83
2:H:483:ILE:HG22	2:H:484:ILE:HG23	1.58	0.83
1:A:1254:VAL:HG22	1:A:1255:SER:H	1.43	0.83
1:A:1024:PHE:HB2	1:A:1385:GLN:HG2	1.61	0.83
1:A:1385:GLN:NE2	1:A:1593:MET:HG3	1.94	0.83
1:A:802:MET:O	1:A:806:VAL:HG23	1.79	0.83
1:D:1118:LYS:O	1:D:1120:GLU:HG2	1.79	0.83
1:G:1178:ALA:O	1:G:1179:LEU:HD22	1.78	0.83
1:G:1501:LEU:HD22	1:G:1505:GLN:HE21	1.42	0.83
1:G:920:SER:HB2	1:G:921:PRO:HD2	1.59	0.83
2:H:234:ILE:HG23	2:H:235:PRO:CD	2.07	0.83
2:H:517:HIS:HB2	2:H:526:ARG:HG3	1.61	0.83
1:D:1558:ASN:CG	1:D:1620:GLN:HB3	1.98	0.83
1:G:1079:LYS:HD2	1:G:1098:LEU:HD21	1.60	0.83
1:G:1104:ARG:HA	1:G:1104:ARG:NE	1.92	0.83
1:A:1104:ARG:HA	1:A:1104:ARG:NE	1.93	0.82
1:A:1118:LYS:HE2	1:A:1337:GLU:HA	1.57	0.82
1:G:1454:THR:CG2	1:G:1455:ARG:H	1.91	0.82
2:H:1709:ILE:HD11	2:H:1719:ILE:HD11	1.59	0.82
2:H:344:LEU:HD13	2:H:345:THR:H	1.42	0.82
1:A:1189:ILE:HD12	1:A:1377:MET:HE2	1.61	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1519:ILE:HG13	1:A:1523:ARG:HD2	1.61	0.82
1:D:1189:ILE:HD12	1:D:1377:MET:HE2	1.58	0.82
2:E:92:GLU:HA	2:E:96:LEU:HD11	1.61	0.82
1:A:1535:ASP:HB2	1:A:1566:ARG:CZ	2.08	0.82
1:A:424:UNK:CB	1:A:786:SER:HA	2.09	0.82
2:B:2047:UNK:C	2:B:2049:UNK:H	1.89	0.82
1:D:1535:ASP:HB2	1:D:1566:ARG:NH2	1.94	0.82
1:D:802:MET:O	1:D:806:VAL:HG23	1.78	0.82
2:E:1899:VAL:O	2:E:1903:ASP:HB3	1.79	0.82
1:D:1131:LEU:N	1:D:1173:LEU:HD22	1.93	0.82
2:E:1827:LEU:O	2:E:1831:VAL:HG23	1.78	0.82
1:G:1201:SER:HB3	1:G:1204:ILE:CG1	2.07	0.82
2:H:339:LEU:HB3	2:H:386:LEU:HD21	1.62	0.82
1:A:999:LYS:HB2	1:A:1666:THR:O	1.79	0.82
1:D:712:LYS:O	1:D:716:ASP:HB2	1.79	0.82
2:E:1855:ILE:HD11	2:E:1857:ILE:HD11	1.62	0.82
1:G:802:MET:O	1:G:806:VAL:HG23	1.80	0.82
2:H:41:LEU:HB3	2:H:46:GLU:H	1.43	0.82
1:A:1535:ASP:HB2	1:A:1566:ARG:NH2	1.93	0.82
1:D:1405:ALA:HB3	1:D:1654:ILE:O	1.79	0.82
2:E:221:ASN:H	2:E:221:ASN:HD22	1.28	0.82
1:G:676:LYS:O	1:G:766:ASP:HB2	1.79	0.82
1:G:712:LYS:O	1:G:716:ASP:HB2	1.79	0.82
1:A:1462:TRP:CZ3	1:A:1466:GLU:HB2	2.14	0.82
1:A:756:GLU:HA	1:A:760:GLY:HA2	1.61	0.82
2:B:1715:VAL:HG22	2:B:1716:ASN:N	1.94	0.82
2:E:240:LEU:O	2:E:244:ILE:HG13	1.80	0.82
1:A:1082:GLU:H	1:A:1083:PRO:HD3	1.45	0.82
1:D:1107:GLU:HB3	1:D:1108:PRO:HD3	1.59	0.82
1:D:1019:ILE:HG13	1:D:1316:VAL:HG23	1.61	0.82
1:D:1535:ASP:HB2	1:D:1566:ARG:CZ	2.09	0.82
2:E:339:LEU:HB3	2:E:386:LEU:HD21	1.62	0.82
1:G:1082:GLU:H	1:G:1083:PRO:HD3	1.45	0.82
1:G:1119:LYS:HE3	1:G:1121:MET:HB2	1.60	0.82
2:H:187:LEU:HD21	2:H:296:VAL:HG21	1.62	0.82
1:A:1153:ASP:OD1	1:A:1157:ILE:HG23	1.79	0.82
1:A:712:LYS:O	1:A:716:ASP:HB2	1.80	0.82
1:D:1302:VAL:O	1:D:1307:THR:HB	1.80	0.82
1:D:828:PRO:HG2	1:D:829:ASN:ND2	1.94	0.82
1:G:1022:THR:HG21	1:G:1388:MET:HE2	1.58	0.82
1:A:676:LYS:O	1:A:766:ASP:HB2	1.80	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:203:LEU:O	2:B:204:ASP:HB2	1.79	0.82
2:B:483:ILE:HG22	2:B:484:ILE:HG23	1.60	0.82
1:D:1396:MET:HA	1:D:1676:LYS:CD	2.09	0.82
1:G:1246:CYS:CB	1:G:1328:ILE:HG23	2.09	0.82
1:G:1019:ILE:HG13	1:G:1316:VAL:HG23	1.61	0.82
1:G:999:LYS:HB2	1:G:1666:THR:O	1.80	0.82
2:H:1899:VAL:O	2:H:1903:ASP:HB3	1.79	0.82
2:B:166:THR:HG22	2:B:168:ASP:H	1.44	0.81
1:G:1067:LEU:HD23	1:G:1074:GLY:O	1.79	0.81
1:A:1079:LYS:HD2	1:A:1098:LEU:HD21	1.61	0.81
1:D:1462:TRP:CZ3	1:D:1466:GLU:HB2	2.15	0.81
1:D:1618:LEU:HD22	1:D:1623:TYR:OH	1.80	0.81
2:E:1715:VAL:HG22	2:E:1716:ASN:N	1.94	0.81
2:E:367:GLU:O	2:E:379:VAL:HG13	1.79	0.81
1:G:1302:VAL:O	1:G:1307:THR:HB	1.79	0.81
1:A:1119:LYS:HE3	1:A:1121:MET:HB2	1.60	0.81
1:A:1434:SER:OG	1:A:1436:VAL:HG23	1.79	0.81
2:B:72:VAL:HB	2:B:74:PRO:HD2	1.61	0.81
1:D:1024:PHE:HB2	1:D:1385:GLN:HG2	1.62	0.81
1:D:1408:ALA:HB1	1:D:1651:GLY:C	2.01	0.81
1:D:587:UNK:CB	1:D:906:LEU:HD21	2.10	0.81
1:G:826:MET:HB2	1:G:868:ILE:HA	1.61	0.81
1:A:1067:LEU:HD23	1:A:1074:GLY:O	1.80	0.81
1:G:1236:LYS:O	1:G:1236:LYS:HG3	1.78	0.81
1:G:1410:ALA:HB3	1:G:1426:LEU:HB2	1.60	0.81
1:A:1405:ALA:HB3	1:A:1654:ILE:O	1.80	0.81
2:B:1855:ILE:HD11	2:B:1857:ILE:HD11	1.63	0.81
2:B:259:THR:HG22	2:B:260:PRO:HD2	1.62	0.81
1:D:1051:VAL:HA	1:D:1094:GLU:OE1	1.80	0.81
1:D:1519:ILE:HG13	1:D:1523:ARG:HD2	1.62	0.81
2:H:203:LEU:O	2:H:204:ASP:HB2	1.77	0.81
2:H:256:LEU:HD23	2:H:263:LEU:HD21	1.62	0.81
1:A:993:PRO:HG3	1:A:1681:GLU:HB3	1.61	0.81
2:B:1821:VAL:HG23	2:B:1822:MET:H	1.46	0.81
1:G:1063:HIS:C	1:G:1065:GLY:N	2.28	0.81
1:G:1434:SER:OG	1:G:1436:VAL:HG23	1.80	0.81
2:H:1695:ASP:OD1	2:H:1705:SER:HB2	1.81	0.81
1:A:1169:LYS:HG3	1:A:1170:GLY:H	1.44	0.81
1:D:1547:LYS:HA	1:D:1550:ASP:CB	2.09	0.81
1:D:1659:ASP:HA	1:D:1662:TYR:HD2	1.42	0.81
2:E:1821:VAL:HG23	2:E:1822:MET:H	1.45	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:234:ILE:HG23	2:E:235:PRO:CD	2.08	0.81
1:G:1118:LYS:O	1:G:1120:GLU:HG2	1.80	0.81
1:G:1353:LEU:O	1:G:1354:GLU:HB2	1.80	0.81
1:G:1547:LYS:HA	1:G:1550:ASP:CB	2.11	0.81
1:G:1385:GLN:HE22	1:G:1593:MET:CG	1.94	0.81
2:H:1715:VAL:HG22	2:H:1716:ASN:N	1.95	0.81
2:H:72:VAL:HB	2:H:74:PRO:HD2	1.62	0.81
1:A:1101:SER:C	1:A:1103:ILE:H	1.83	0.81
2:E:1880:LYS:HD3	2:E:1899:VAL:HG13	1.61	0.81
2:H:234:ILE:HG13	2:H:238:CYS:SG	2.21	0.81
1:A:1236:LYS:O	1:A:1236:LYS:HG3	1.80	0.81
2:B:41:LEU:HD22	2:B:46:GLU:CA	2.10	0.81
2:E:367:GLU:HB2	2:E:430:HIS:CE1	2.15	0.81
1:G:830:HIS:CD2	1:G:830:HIS:H	1.98	0.81
2:H:367:GLU:HB2	2:H:430:HIS:CE1	2.16	0.81
1:D:1107:GLU:CB	1:D:1108:PRO:HD3	2.11	0.81
1:G:1081:LYS:HD3	1:G:1081:LYS:H	1.44	0.81
1:G:869:ILE:HG23	1:G:926:LEU:HB2	1.60	0.81
1:A:587:UNK:CB	1:A:906:LEU:HD21	2.11	0.81
1:D:1119:LYS:HE3	1:D:1121:MET:HB2	1.62	0.81
1:D:1329:VAL:HG13	1:D:1330:GLY:N	1.93	0.81
1:D:1353:LEU:O	1:D:1354:GLU:HB2	1.79	0.81
1:D:1385:GLN:HE22	1:D:1593:MET:CG	1.93	0.81
2:E:166:THR:HG22	2:E:168:ASP:H	1.46	0.81
1:G:1661:LEU:HD23	1:G:1661:LEU:O	1.81	0.81
2:H:67:TYR:C	2:H:69:SER:H	1.78	0.81
1:A:1254:VAL:O	1:A:1256:ALA:N	2.14	0.80
2:B:1379:UNK:HA	2:B:1426:UNK:HA	1.62	0.80
2:B:1812:TYR:H	2:B:1812:TYR:HD2	1.29	0.80
2:B:1924:ILE:HG22	2:B:1925:ILE:H	1.45	0.80
1:D:1067:LEU:HD23	1:D:1074:GLY:O	1.81	0.80
1:D:1254:VAL:C	1:D:1256:ALA:H	1.85	0.80
1:G:1035:THR:HG21	1:G:1053:MET:SD	2.21	0.80
1:A:1107:GLU:CB	1:A:1108:PRO:HD3	2.11	0.80
1:A:1292:ILE:O	1:A:1292:ILE:HG12	1.78	0.80
1:A:1413:LYS:HB2	1:A:1425:ILE:HD12	1.62	0.80
1:A:1583:HIS:ND1	1:A:1585:LYS:N	2.27	0.80
1:A:1661:LEU:HD23	1:A:1661:LEU:O	1.82	0.80
1:D:1082:GLU:H	1:D:1083:PRO:HD3	1.45	0.80
1:D:1434:SER:OG	1:D:1436:VAL:HG23	1.81	0.80
1:G:1243:VAL:HG12	1:G:1324:ALA:HA	1.64	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1423:LYS:CB	1:G:1552:ASN:HD21	1.95	0.80
1:G:1639:VAL:HG23	1:G:1640:SER:H	1.46	0.80
1:G:1659:ASP:HA	1:G:1662:TYR:HD2	1.43	0.80
2:H:1776:PHE:O	2:H:1779:PRO:HD2	1.80	0.80
2:H:259:THR:HG22	2:H:260:PRO:HD2	1.61	0.80
1:A:1226:SER:O	1:A:1228:ILE:HG23	1.81	0.80
1:A:1454:THR:CG2	1:A:1455:ARG:H	1.91	0.80
1:D:1190:PRO:CG	1:D:1378:GLU:O	2.28	0.80
2:E:1776:PHE:O	2:E:1779:PRO:HD2	1.81	0.80
1:G:1107:GLU:CB	1:G:1108:PRO:HD3	2.11	0.80
1:G:1313:ASP:O	1:G:1316:VAL:HG12	1.81	0.80
1:G:1398:VAL:HG22	1:G:1399:PRO:O	1.81	0.80
1:A:1082:GLU:H	1:A:1083:PRO:CD	1.93	0.80
1:A:1106:ILE:O	1:A:1107:GLU:HB2	1.78	0.80
1:A:1353:LEU:O	1:A:1354:GLU:HB2	1.81	0.80
1:D:1169:LYS:HG3	1:D:1170:GLY:N	1.95	0.80
2:E:203:LEU:O	2:E:204:ASP:HB2	1.78	0.80
1:G:1067:LEU:CG	1:G:1068:LYS:H	1.94	0.80
1:G:1211:ILE:HA	1:G:1214:PHE:CE2	2.16	0.80
2:H:1827:LEU:O	2:H:1831:VAL:HG23	1.82	0.80
2:H:366:VAL:HG13	2:H:380:SER:O	1.82	0.80
1:A:1118:LYS:HE3	1:A:1120:GLU:OE1	1.82	0.80
1:A:1225:ALA:C	1:A:1227:GLY:H	1.84	0.80
1:D:1152:VAL:CB	1:D:1154:ILE:HG12	2.11	0.80
2:E:1379:UNK:HA	2:E:1426:UNK:HA	1.63	0.80
1:G:1101:SER:C	1:G:1103:ILE:H	1.84	0.80
1:D:1243:VAL:HG12	1:D:1324:ALA:HA	1.62	0.80
2:E:1884:TRP:HB2	2:E:1892:ASN:ND2	1.97	0.80
2:E:41:LEU:HD22	2:E:46:GLU:CA	2.12	0.80
2:H:166:THR:HG22	2:H:168:ASP:H	1.44	0.80
2:H:241:ILE:CG2	2:H:275:GLN:HE21	1.92	0.80
1:A:1118:LYS:NZ	1:A:1337:GLU:HG3	1.97	0.80
1:A:1130:ASP:HB2	1:A:1174:TYR:H	1.46	0.80
2:B:221:ASN:H	2:B:221:ASN:HD22	1.28	0.80
2:E:517:HIS:HB2	2:E:526:ARG:HG3	1.63	0.80
1:G:1106:ILE:O	1:G:1106:ILE:HG22	1.82	0.80
1:G:1168:LEU:HD13	1:G:1169:LYS:HB2	1.64	0.80
1:G:1254:VAL:C	1:G:1256:ALA:H	1.82	0.80
1:G:1462:TRP:CZ3	1:G:1466:GLU:HB2	2.16	0.80
2:H:213:LEU:HD13	2:H:236:ILE:HG12	1.64	0.80
1:A:1243:VAL:HG12	1:A:1324:ALA:HA	1.64	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:676:LYS:O	1:D:766:ASP:HB2	1.81	0.80
2:E:1778:GLN:HB2	2:E:1779:PRO:HD3	1.63	0.80
2:E:1924:ILE:HG22	2:E:1925:ILE:H	1.47	0.80
2:E:526:ARG:H	2:E:526:ARG:HD3	1.47	0.80
2:E:72:VAL:HB	2:E:74:PRO:HD2	1.62	0.80
1:G:1118:LYS:HE3	1:G:1120:GLU:OE1	1.81	0.80
1:G:1580:LEU:O	1:G:1580:LEU:HG	1.81	0.80
2:B:1827:LEU:O	2:B:1831:VAL:HG23	1.82	0.80
2:B:256:LEU:HD23	2:B:263:LEU:HD21	1.64	0.80
1:D:1160:THR:HB	1:D:1166:LYS:HE3	1.64	0.80
1:D:907:GLY:C	1:D:909:LEU:H	1.83	0.80
1:G:1169:LYS:HG3	1:G:1170:GLY:N	1.97	0.80
1:G:1519:ILE:HG13	1:G:1523:ARG:HD2	1.63	0.80
1:A:1190:PRO:CG	1:A:1378:GLU:O	2.28	0.79
1:A:1408:ALA:HB1	1:A:1651:GLY:C	2.03	0.79
1:D:1583:HIS:CE1	1:D:1585:LYS:H	1.98	0.79
1:G:1153:ASP:OD1	1:G:1157:ILE:HG23	1.82	0.79
1:G:1491:ARG:HD3	1:G:1744:TYR:O	1.83	0.79
1:G:1626:TYR:O	1:G:1628:SER:N	2.15	0.79
2:H:146:PHE:CE2	2:H:256:LEU:HD21	2.17	0.79
1:A:1033:ALA:O	1:A:1035:THR:N	2.15	0.79
1:A:1448:ARG:HA	1:A:1451:GLN:HB3	1.65	0.79
1:D:899:LYS:C	1:D:901:MET:H	1.83	0.79
2:E:256:LEU:HD23	2:E:263:LEU:HD21	1.63	0.79
1:G:1022:THR:HG23	1:G:1398:VAL:CG2	2.09	0.79
1:G:1033:ALA:O	1:G:1035:THR:N	2.15	0.79
1:G:1110:LEU:HD11	1:G:1188:GLN:H	1.47	0.79
1:G:1189:ILE:HD12	1:G:1377:MET:HE2	1.63	0.79
2:H:1855:ILE:HD11	2:H:1857:ILE:HD11	1.64	0.79
2:H:1880:LYS:HD3	2:H:1899:VAL:HG13	1.62	0.79
2:H:240:LEU:O	2:H:244:ILE:HG13	1.81	0.79
1:A:1152:VAL:CB	1:A:1154:ILE:HG12	2.13	0.79
1:A:1254:VAL:C	1:A:1256:ALA:H	1.84	0.79
2:B:367:GLU:HB2	2:B:430:HIS:CE1	2.16	0.79
2:B:517:HIS:HB2	2:B:526:ARG:HG3	1.63	0.79
2:B:52:ASP:OD1	2:B:56:THR:HG21	1.83	0.79
1:D:1254:VAL:O	1:D:1256:ALA:N	2.16	0.79
1:D:1455:ARG:HG2	1:D:1504:ALA:HB2	1.65	0.79
2:E:146:PHE:CE2	2:E:256:LEU:HD21	2.18	0.79
1:A:1035:THR:HG23	1:A:1045:PHE:HE1	1.48	0.79
1:A:1423:LYS:CB	1:A:1552:ASN:HD21	1.93	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:907:GLY:C	1:A:909:LEU:H	1.83	0.79
2:B:366:VAL:HG13	2:B:380:SER:O	1.81	0.79
1:D:1106:ILE:HG22	1:D:1106:ILE:O	1.83	0.79
2:E:366:VAL:HG13	2:E:380:SER:O	1.81	0.79
1:G:1254:VAL:HG13	1:G:1255:SER:N	1.98	0.79
1:A:1022:THR:HG23	1:A:1398:VAL:CG2	2.09	0.79
1:A:1487:LEU:O	1:A:1490:THR:HG22	1.82	0.79
2:B:339:LEU:HB3	2:B:386:LEU:HD21	1.64	0.79
2:E:187:LEU:HD21	2:E:296:VAL:HG21	1.62	0.79
2:H:1379:UNK:HA	2:H:1426:UNK:HA	1.62	0.79
2:H:1775:GLN:NE2	2:H:1836:MET:HG2	1.97	0.79
1:A:1160:THR:HB	1:A:1166:LYS:HE3	1.64	0.79
1:A:1228:ILE:O	1:A:1228:ILE:HG13	1.81	0.79
2:B:1173:UNK:CB	2:B:1181:UNK:H	1.95	0.79
1:D:1225:ALA:C	1:D:1227:GLY:H	1.86	0.79
1:D:1413:LYS:HB2	1:D:1425:ILE:HD12	1.63	0.79
1:G:1035:THR:HG23	1:G:1045:PHE:HE1	1.46	0.79
1:G:1130:ASP:HB2	1:G:1174:TYR:H	1.46	0.79
1:G:1341:PHE:O	1:G:1342:GLU:HB2	1.83	0.79
1:G:1583:HIS:CD2	1:G:1583:HIS:N	2.51	0.79
1:G:424:UNK:CB	1:G:786:SER:HA	2.11	0.79
2:H:52:ASP:OD1	2:H:56:THR:HG21	1.83	0.79
1:A:1392:LEU:HD22	1:A:1392:LEU:H	1.46	0.79
1:A:1448:ARG:HG2	1:A:1451:GLN:HG2	1.64	0.79
1:A:1455:ARG:HG2	1:A:1504:ALA:HB2	1.64	0.79
1:A:1456:GLU:H	1:A:1459:ILE:HG12	1.48	0.79
2:E:1821:VAL:HG23	2:E:1822:MET:N	1.97	0.79
2:E:259:THR:HG22	2:E:260:PRO:HD2	1.62	0.79
1:G:1220:VAL:O	1:G:1224:ILE:HG22	1.82	0.79
1:G:1558:ASN:OD1	1:G:1620:GLN:HB3	1.83	0.79
2:H:1821:VAL:HG23	2:H:1822:MET:H	1.46	0.79
1:A:1070:ARG:CG	1:A:1071:PRO:HD2	2.13	0.79
1:A:1118:LYS:O	1:A:1120:GLU:HG2	1.82	0.79
1:A:1019:ILE:HG13	1:A:1316:VAL:HG23	1.63	0.79
1:A:1184:LEU:HD22	1:A:1341:PHE:HD2	1.47	0.79
1:A:1583:HIS:CE1	1:A:1585:LYS:H	2.01	0.79
1:A:899:LYS:C	1:A:901:MET:H	1.85	0.79
1:D:1057:MET:SD	1:D:1106:ILE:HD11	2.23	0.79
1:D:1254:VAL:HG13	1:D:1255:SER:N	1.98	0.79
1:D:1313:ASP:O	1:D:1316:VAL:HG12	1.82	0.79
2:E:1173:UNK:CB	2:E:1181:UNK:H	1.96	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1082:GLU:H	1:G:1083:PRO:CD	1.93	0.79
1:A:1370:THR:H	1:A:1547:LYS:HD2	1.48	0.79
2:B:146:PHE:CE2	2:B:256:LEU:HD21	2.17	0.79
1:D:1299:LYS:NZ	1:D:1323:LYS:NZ	2.31	0.79
1:D:1487:LEU:O	1:D:1490:THR:HG22	1.82	0.79
1:D:1639:VAL:HG23	1:D:1640:SER:H	1.48	0.79
2:E:234:ILE:HG13	2:E:238:CYS:SG	2.22	0.79
2:E:526:ARG:HD3	2:E:526:ARG:N	1.98	0.79
1:G:1051:VAL:HA	1:G:1094:GLU:OE1	1.83	0.79
2:H:1778:GLN:HB2	2:H:1779:PRO:HD3	1.63	0.79
1:A:1107:GLU:CG	1:A:1108:PRO:HD3	2.13	0.79
1:D:1033:ALA:O	1:D:1035:THR:N	2.15	0.79
1:D:1082:GLU:H	1:D:1083:PRO:CD	1.94	0.79
1:D:1661:LEU:O	1:D:1661:LEU:HD23	1.82	0.79
2:E:52:ASP:OD1	2:E:56:THR:HG21	1.83	0.79
2:H:526:ARG:HD3	2:H:526:ARG:N	1.98	0.79
1:A:1583:HIS:N	1:A:1583:HIS:CD2	2.51	0.78
2:B:1778:GLN:HB2	2:B:1779:PRO:HD3	1.63	0.78
2:B:305:PHE:CD2	2:B:442:ASP:HB3	2.17	0.78
2:B:526:ARG:H	2:B:526:ARG:HD3	1.47	0.78
2:B:527:VAL:CG1	2:B:541:TYR:HA	2.11	0.78
1:D:1110:LEU:HD11	1:D:1188:GLN:H	1.48	0.78
2:H:1173:UNK:CB	2:H:1181:UNK:H	1.96	0.78
2:H:1884:TRP:HB2	2:H:1892:ASN:ND2	1.98	0.78
1:A:1341:PHE:O	1:A:1342:GLU:HB2	1.83	0.78
1:A:1364:GLU:O	1:A:1366:SER:N	2.15	0.78
1:A:1443:LEU:O	1:A:1443:LEU:HD23	1.83	0.78
1:A:1604:ILE:HD12	1:A:1630:THR:CB	2.13	0.78
2:B:1695:ASP:OD1	2:B:1705:SER:HB2	1.83	0.78
2:B:526:ARG:HD3	2:B:526:ARG:N	1.98	0.78
2:E:1695:ASP:OD1	2:E:1705:SER:HB2	1.83	0.78
1:A:1234:MET:O	1:A:1239:HIS:HD2	1.66	0.78
1:A:1626:TYR:O	1:A:1628:SER:N	2.16	0.78
1:D:1097:ILE:HG23	1:D:1098:LEU:HD22	1.65	0.78
1:D:1536:LEU:HD12	1:D:1536:LEU:H	1.47	0.78
2:E:1812:TYR:H	2:E:1812:TYR:HD2	1.27	0.78
2:H:41:LEU:HD22	2:H:46:GLU:CA	2.12	0.78
2:H:527:VAL:CG1	2:H:541:TYR:HA	2.10	0.78
1:A:1051:VAL:HA	1:A:1094:GLU:OE1	1.83	0.78
1:A:1099:GLU:HG2	1:A:1100:HIS:N	1.98	0.78
1:A:1141:ALA:HA	1:A:1144:PHE:CE1	2.18	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1581:THR:HG22	1:A:1591:TRP:CZ3	2.18	0.78
1:A:1606:PRO:HB2	1:A:1627:PRO:CA	2.02	0.78
2:B:1888:ILE:HG23	2:B:1889:VAL:HG23	1.64	0.78
2:B:390:ASN:HA	2:B:393:LEU:HB3	1.64	0.78
1:D:1022:THR:HG23	1:D:1398:VAL:CG2	2.13	0.78
1:D:1377:MET:HG3	1:D:1377:MET:O	1.83	0.78
2:E:305:PHE:CD2	2:E:442:ASP:HB3	2.18	0.78
2:E:440:ASN:OD1	2:E:477:GLU:HA	1.84	0.78
1:G:1519:ILE:CD1	1:G:1521:PRO:HD2	2.12	0.78
1:G:1639:VAL:HG22	1:G:1655:VAL:O	1.83	0.78
2:H:390:ASN:HA	2:H:393:LEU:HB3	1.65	0.78
1:A:1067:LEU:CG	1:A:1068:LYS:H	1.95	0.78
1:D:1035:THR:HG21	1:D:1053:MET:SD	2.23	0.78
2:E:1775:GLN:NE2	2:E:1836:MET:HG2	1.98	0.78
2:E:1784:MET:HE3	3:F:21:UNK:HA	1.64	0.78
1:G:1211:ILE:HA	1:G:1214:PHE:CD2	2.19	0.78
1:G:1443:LEU:O	1:G:1443:LEU:HD23	1.83	0.78
1:G:899:LYS:C	1:G:901:MET:H	1.85	0.78
2:H:526:ARG:HD3	2:H:526:ARG:H	1.48	0.78
1:A:830:HIS:CD2	1:A:830:HIS:H	1.98	0.78
2:B:339:LEU:HD12	2:B:340:SER:N	1.99	0.78
2:E:376:ASN:O	2:E:377:LEU:HG	1.84	0.78
2:B:1723:GLY:HA3	2:B:1733:TYR:CZ	2.19	0.78
2:B:1776:PHE:O	2:B:1779:PRO:HD2	1.82	0.78
1:D:1119:LYS:HG3	1:D:1121:MET:HB2	1.66	0.78
1:D:1110:LEU:CD1	1:D:1188:GLN:H	1.97	0.78
1:D:1234:MET:O	1:D:1239:HIS:HD2	1.66	0.78
1:D:681:THR:HB	1:D:771:PHE:H	1.49	0.78
1:G:1070:ARG:CG	1:G:1071:PRO:HD2	2.14	0.78
2:H:1821:VAL:HG23	2:H:1822:MET:N	1.98	0.78
1:A:678:VAL:HG22	1:A:767:ALA:HB3	1.65	0.78
1:A:791:ALA:HA	1:A:794:ILE:HG22	1.66	0.78
2:B:247:ALA:O	2:B:251:VAL:HG23	1.83	0.78
1:D:1625:LEU:HD22	1:D:1626:TYR:HB3	1.66	0.78
1:A:1618:LEU:HD22	1:A:1623:TYR:OH	1.84	0.78
1:A:903:PHE:HA	1:A:906:LEU:HD23	1.64	0.78
2:B:1041:UNK:O	2:B:1043:UNK:N	2.17	0.78
2:B:1740:THR:OG1	2:B:1751:ILE:HB	1.84	0.78
1:D:1153:ASP:OD1	1:D:1157:ILE:HG23	1.82	0.78
1:G:1448:ARG:HG2	1:G:1451:GLN:HG2	1.66	0.78
2:H:247:ALA:O	2:H:250:VAL:HB	1.82	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1672:GLN:HG3	2:B:1777:THR:HG23	1.65	0.78
1:D:1129:GLU:OE1	1:D:1178:ALA:HB2	1.84	0.78
1:D:1211:ILE:HA	1:D:1214:PHE:CE2	2.19	0.78
1:D:1448:ARG:HA	1:D:1451:GLN:HB3	1.66	0.78
1:D:1398:VAL:HG12	1:D:1673:TYR:HE1	1.49	0.78
1:D:797:THR:HG22	1:D:798:ASN:N	1.98	0.78
2:E:31:SER:O	2:E:34:GLN:HG2	1.85	0.78
2:E:956:UNK:C	2:E:958:UNK:H	1.97	0.78
1:G:1152:VAL:CB	1:G:1154:ILE:HG12	2.10	0.78
1:G:1364:GLU:O	1:G:1366:SER:N	2.16	0.78
1:G:1392:LEU:H	1:G:1392:LEU:HD22	1.47	0.78
1:G:1448:ARG:HA	1:G:1451:GLN:HB3	1.65	0.78
2:H:1663:UNK:O	3:I:17:UNK:HA	1.84	0.78
1:A:1313:ASP:O	1:A:1316:VAL:HG12	1.84	0.77
1:D:1070:ARG:CG	1:D:1071:PRO:HD2	2.14	0.77
1:D:1228:ILE:HG13	1:D:1228:ILE:O	1.81	0.77
1:D:1423:LYS:CB	1:D:1552:ASN:HD21	1.94	0.77
1:D:1580:LEU:HG	1:D:1580:LEU:O	1.84	0.77
1:D:1604:ILE:HD12	1:D:1630:THR:CB	2.14	0.77
1:G:1128:GLU:HB3	1:G:1177:LYS:HE3	1.66	0.77
1:A:1067:LEU:CD2	1:A:1068:LYS:N	2.48	0.77
1:D:903:PHE:HA	1:D:906:LEU:HD23	1.66	0.77
2:H:305:PHE:CD2	2:H:442:ASP:HB3	2.19	0.77
2:H:376:ASN:O	2:H:377:LEU:HG	1.82	0.77
1:A:1211:ILE:HA	1:A:1214:PHE:CE2	2.19	0.77
1:A:1519:ILE:CD1	1:A:1521:PRO:HD2	2.15	0.77
1:A:1369:ALA:HA	1:A:1547:LYS:CD	2.13	0.77
1:A:1639:VAL:HG23	1:A:1640:SER:H	1.49	0.77
2:B:1821:VAL:HG23	2:B:1822:MET:N	1.98	0.77
1:D:1035:THR:HG23	1:D:1045:PHE:HE1	1.48	0.77
1:D:1458:GLN:O	1:D:1462:TRP:HB3	1.84	0.77
2:E:213:LEU:HD13	2:E:236:ILE:HG12	1.65	0.77
2:E:390:ASN:HA	2:E:393:LEU:HB3	1.65	0.77
1:G:1141:ALA:HA	1:G:1144:PHE:CE1	2.19	0.77
1:G:1581:THR:HG22	1:G:1591:TRP:CZ3	2.20	0.77
1:A:1115:ASN:HD22	1:A:1115:ASN:N	1.82	0.77
1:A:1307:THR:CG2	1:A:1586:GLY:HA2	2.15	0.77
2:B:1884:TRP:HB2	2:B:1892:ASN:ND2	1.98	0.77
2:B:109:LEU:HD13	2:B:534:ASP:OD1	1.84	0.77
1:D:1254:VAL:HG22	1:D:1255:SER:N	1.98	0.77
1:D:1520:ALA:N	1:D:1521:PRO:HD3	1.99	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1626:TYR:O	1:D:1628:SER:N	2.17	0.77
2:E:247:ALA:O	2:E:250:VAL:HB	1.84	0.77
1:G:1099:GLU:HG2	1:G:1100:HIS:N	1.99	0.77
1:G:1606:PRO:HB2	1:G:1627:PRO:CA	2.01	0.77
2:B:35:GLU:HA	2:B:38:ASN:ND2	1.99	0.77
1:D:1423:LYS:HB2	1:D:1552:ASN:ND2	1.97	0.77
1:G:1234:MET:O	1:G:1239:HIS:HD2	1.67	0.77
1:G:1190:PRO:CG	1:G:1378:GLU:O	2.27	0.77
1:G:1408:ALA:HB1	1:G:1651:GLY:C	2.04	0.77
1:A:1110:LEU:HD11	1:A:1188:GLN:H	1.50	0.77
1:A:1208:VAL:O	1:A:1210:PRO:CD	2.32	0.77
1:A:1506:GLN:O	1:A:1510:ASN:HB2	1.84	0.77
2:B:1775:GLN:NE2	2:B:1836:MET:HG2	1.99	0.77
1:D:1168:LEU:HD13	1:D:1169:LYS:HB2	1.65	0.77
2:E:1888:ILE:HG23	2:E:1889:VAL:HG23	1.66	0.77
2:E:29:ILE:C	2:E:31:SER:H	1.87	0.77
2:E:1784:MET:CE	3:F:21:UNK:HA	2.14	0.77
2:H:29:ILE:C	2:H:31:SER:H	1.86	0.77
1:A:1454:THR:O	1:A:1457:ALA:HB3	1.84	0.77
1:A:1290:LEU:HA	1:A:1701:LYS:HZ2	1.48	0.77
2:B:376:ASN:O	2:B:377:LEU:HG	1.85	0.77
2:E:109:LEU:HD13	2:E:534:ASP:OD1	1.85	0.77
1:G:1077:ASP:OD2	1:G:1090:LYS:HE2	1.83	0.77
1:G:1377:MET:HG3	1:G:1377:MET:O	1.83	0.77
1:G:1487:LEU:O	1:G:1490:THR:HG22	1.84	0.77
1:G:1506:GLN:O	1:G:1510:ASN:HB2	1.83	0.77
1:G:1604:ILE:HD12	1:G:1630:THR:CB	2.15	0.77
2:H:1715:VAL:HB	2:H:1770:LEU:N	1.98	0.77
1:A:1168:LEU:HD13	1:A:1169:LYS:HB2	1.66	0.77
1:A:1458:GLN:O	1:A:1462:TRP:HB3	1.85	0.77
1:A:681:THR:HB	1:A:771:PHE:H	1.50	0.77
2:B:2001:UNK:O	2:B:2003:UNK:N	2.17	0.77
2:B:247:ALA:O	2:B:250:VAL:HB	1.85	0.77
2:B:440:ASN:OD1	2:B:477:GLU:HA	1.85	0.77
1:D:1101:SER:C	1:D:1103:ILE:H	1.84	0.77
1:D:1443:LEU:O	1:D:1443:LEU:HD23	1.84	0.77
1:D:1519:ILE:CD1	1:D:1521:PRO:HD2	2.13	0.77
2:E:1888:ILE:HA	2:E:1891:TYR:OH	1.85	0.77
1:G:1067:LEU:CD2	1:G:1068:LYS:N	2.46	0.77
1:G:1110:LEU:CD1	1:G:1188:GLN:H	1.96	0.77
1:G:797:THR:HG22	1:G:798:ASN:N	1.99	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1299:LYS:NZ	1:A:1323:LYS:NZ	2.33	0.77
1:D:1118:LYS:HE3	1:D:1120:GLU:OE1	1.85	0.77
1:D:1409:THR:H	1:D:1651:GLY:HA3	1.50	0.77
2:E:35:GLU:HA	2:E:38:ASN:ND2	1.98	0.77
1:G:1160:THR:HB	1:G:1166:LYS:HE3	1.67	0.77
1:G:1131:LEU:N	1:G:1173:LEU:HD22	2.00	0.77
1:G:1225:ALA:C	1:G:1227:GLY:H	1.86	0.77
1:G:1258:ARG:HH11	1:G:1258:ARG:HG2	1.50	0.77
1:G:1243:VAL:HG12	1:G:1325:ARG:H	1.48	0.77
2:H:1672:GLN:HG3	2:H:1777:THR:HG23	1.67	0.77
1:A:1254:VAL:HG13	1:A:1255:SER:N	1.99	0.77
1:D:1118:LYS:NZ	1:D:1337:GLU:HG3	2.00	0.77
1:D:1599:ILE:HD11	1:D:1639:VAL:HG12	1.66	0.77
1:G:1184:LEU:HD22	1:G:1341:PHE:HD2	1.48	0.77
1:G:1398:VAL:HG12	1:G:1673:TYR:HE1	1.48	0.77
2:H:35:GLU:HA	2:H:38:ASN:ND2	2.00	0.77
1:A:1444:ASN:HD22	1:A:1444:ASN:N	1.83	0.76
1:A:1398:VAL:HG12	1:A:1673:TYR:HE1	1.49	0.76
2:B:31:SER:O	2:B:34:GLN:HG2	1.84	0.76
1:D:1128:GLU:HB3	1:D:1177:LYS:HE3	1.67	0.76
1:D:1130:ASP:HB2	1:D:1174:TYR:H	1.49	0.76
1:D:678:VAL:HG22	1:D:767:ALA:HB3	1.66	0.76
2:H:1834:ARG:HG3	2:H:1834:ARG:HH11	1.50	0.76
2:H:109:LEU:HD13	2:H:534:ASP:OD1	1.85	0.76
2:B:234:ILE:HG13	2:B:238:CYS:SG	2.26	0.76
2:B:334:VAL:O	2:B:420:PHE:HD2	1.68	0.76
1:D:1536:LEU:HB3	1:D:1638:ALA:HB3	1.68	0.76
1:D:791:ALA:HA	1:D:794:ILE:HG22	1.67	0.76
1:G:1536:LEU:H	1:G:1536:LEU:HD12	1.50	0.76
1:G:884:ILE:HG21	1:G:943:LEU:HD13	1.68	0.76
2:H:339:LEU:HD12	2:H:340:SER:N	2.00	0.76
2:H:1885:LEU:H	3:I:2:UNK:CB	1.99	0.76
1:D:1031:GLY:O	1:D:1035:THR:HB	1.84	0.76
1:D:1067:LEU:CG	1:D:1068:LYS:H	1.95	0.76
1:D:1243:VAL:HG12	1:D:1325:ARG:H	1.50	0.76
1:D:1456:GLU:H	1:D:1459:ILE:HG12	1.49	0.76
2:E:1041:UNK:O	2:E:1043:UNK:N	2.18	0.76
1:G:1625:LEU:HD22	1:G:1626:TYR:HB3	1.68	0.76
1:G:1404:VAL:HA	1:G:1655:VAL:CG2	2.16	0.76
1:A:1258:ARG:HH11	1:A:1258:ARG:HG2	1.50	0.76
1:D:1099:GLU:HG2	1:D:1100:HIS:N	1.99	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1178:ALA:O	1:D:1179:LEU:HD22	1.83	0.76
1:D:1329:VAL:HG12	1:D:1385:GLN:H	1.50	0.76
1:D:830:HIS:H	1:D:830:HIS:CD2	2.00	0.76
1:G:1456:GLU:H	1:G:1459:ILE:HG12	1.50	0.76
1:G:1583:HIS:CE1	1:G:1585:LYS:H	2.04	0.76
2:H:2001:UNK:O	2:H:2003:UNK:N	2.18	0.76
1:A:1547:LYS:HA	1:A:1550:ASP:CB	2.11	0.76
1:A:1491:ARG:HD3	1:A:1744:TYR:O	1.85	0.76
2:B:1709:ILE:HG22	2:B:1771:LEU:HD13	1.67	0.76
2:E:334:VAL:O	2:E:420:PHE:HD2	1.69	0.76
2:H:437:ASP:HA	2:H:440:ASN:HD22	1.50	0.76
1:A:1119:LYS:HG3	1:A:1121:MET:HB2	1.66	0.76
2:B:1907:LEU:HD23	2:B:1907:LEU:H	1.50	0.76
2:B:956:UNK:C	2:B:958:UNK:H	1.99	0.76
1:D:1491:ARG:HD3	1:D:1744:TYR:O	1.86	0.76
2:E:2001:UNK:O	2:E:2003:UNK:N	2.18	0.76
2:E:247:ALA:O	2:E:251:VAL:HG23	1.85	0.76
1:G:1455:ARG:HH22	1:G:1458:GLN:HB2	1.50	0.76
1:G:681:THR:HB	1:G:771:PHE:H	1.48	0.76
2:H:1888:ILE:HA	2:H:1891:TYR:OH	1.85	0.76
1:A:1211:ILE:C	1:A:1213:LEU:H	1.89	0.76
1:A:1230:ASP:OD2	1:A:1232:TYR:HB2	1.86	0.76
1:A:1385:GLN:HE22	1:A:1593:MET:CG	1.96	0.76
2:B:213:LEU:HD13	2:B:236:ILE:HG12	1.67	0.76
1:D:1036:ARG:HE	1:D:1037:TRP:N	1.83	0.76
1:D:1448:ARG:HG2	1:D:1451:GLN:HG2	1.68	0.76
1:D:1506:GLN:O	1:D:1510:ASN:HB2	1.84	0.76
2:E:1869:GLU:HA	2:E:1872:GLN:HB3	1.67	0.76
1:G:680:ILE:HG23	1:G:769:ILE:CG2	2.15	0.76
2:H:60:LEU:HA	2:H:63:LYS:HB3	1.68	0.76
1:A:1035:THR:HG21	1:A:1053:MET:SD	2.25	0.76
1:A:1057:MET:SD	1:A:1106:ILE:HD11	2.26	0.76
1:A:1220:VAL:O	1:A:1224:ILE:HG22	1.86	0.76
1:A:1447:TYR:HE2	1:A:1450:ARG:HG3	1.50	0.76
1:A:714:VAL:C	1:A:716:ASP:H	1.89	0.76
1:D:1067:LEU:CD2	1:D:1068:LYS:N	2.48	0.76
1:D:1392:LEU:HD22	1:D:1392:LEU:H	1.48	0.76
1:G:1299:LYS:NZ	1:G:1323:LYS:NZ	2.33	0.76
1:G:1458:GLN:O	1:G:1462:TRP:HB3	1.86	0.76
1:A:1031:GLY:O	1:A:1035:THR:HB	1.85	0.76
1:A:1243:VAL:HG12	1:A:1325:ARG:H	1.49	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1423:LYS:HB2	1:A:1552:ASN:ND2	1.98	0.76
1:A:1238:VAL:HA	1:A:1720:ALA:HB1	1.68	0.76
1:D:1191:THR:HA	1:D:1193:TRP:CH2	2.21	0.76
1:D:1341:PHE:O	1:D:1342:GLU:HB2	1.82	0.76
1:D:1369:ALA:HA	1:D:1547:LYS:CD	2.15	0.76
1:D:1606:PRO:HB2	1:D:1627:PRO:CA	2.01	0.76
1:D:678:VAL:O	1:D:703:VAL:HG22	1.85	0.76
1:G:1131:LEU:HB2	1:G:1133:PRO:CD	2.15	0.76
1:G:1118:LYS:NZ	1:G:1337:GLU:HG3	2.00	0.76
1:G:1455:ARG:HG2	1:G:1504:ALA:HB2	1.66	0.76
1:G:468:UNK:C	1:G:470:UNK:N	2.46	0.76
1:G:792:HIS:CE1	1:G:796:LEU:HD21	2.21	0.76
1:A:1151:LYS:HE3	1:A:1175:ILE:HD13	1.67	0.76
1:A:1129:GLU:OE1	1:A:1178:ALA:HB2	1.86	0.76
1:D:1370:THR:H	1:D:1547:LYS:HD2	1.51	0.76
1:D:884:ILE:HG21	1:D:943:LEU:HD13	1.68	0.76
2:E:1834:ARG:HH11	2:E:1834:ARG:HG3	1.51	0.76
1:G:1230:ASP:OD2	1:G:1232:TYR:HB2	1.86	0.76
2:H:1883:GLY:HA2	2:H:1894:GLU:OE1	1.85	0.76
1:A:1254:VAL:HG22	1:A:1255:SER:N	2.01	0.75
1:D:1169:LYS:NZ	1:D:1170:GLY:O	2.18	0.75
1:D:680:ILE:HG23	1:D:769:ILE:CG2	2.16	0.75
2:E:1740:THR:OG1	2:E:1751:ILE:HB	1.86	0.75
1:G:1413:LYS:HB2	1:G:1425:ILE:HD12	1.66	0.75
1:G:678:VAL:O	1:G:703:VAL:HG22	1.85	0.75
2:H:1863:ALA:HA	2:H:1866:PHE:CD1	2.21	0.75
2:H:31:SER:O	2:H:34:GLN:HG2	1.85	0.75
1:A:1142:GLU:O	1:A:1145:LYS:N	2.20	0.75
1:A:1447:TYR:C	1:A:1449:LYS:H	1.89	0.75
1:D:1008:GLU:C	1:D:1010:GLU:H	1.89	0.75
1:D:1302:VAL:HG23	1:D:1303:GLY:H	1.50	0.75
1:D:1329:VAL:CG1	1:D:1385:GLN:H	1.99	0.75
1:D:1454:THR:O	1:D:1457:ALA:HB3	1.85	0.75
1:D:1583:HIS:N	1:D:1583:HIS:CD2	2.52	0.75
2:H:1723:GLY:HA3	2:H:1733:TYR:CZ	2.21	0.75
2:H:1924:ILE:HG22	2:H:1925:ILE:H	1.50	0.75
1:A:1036:ARG:HE	1:A:1037:TRP:N	1.84	0.75
1:A:884:ILE:HG21	1:A:943:LEU:HD13	1.67	0.75
2:B:1173:UNK:HA	2:B:1182:UNK:HA	1.69	0.75
2:B:91:PHE:O	2:B:96:LEU:HD21	1.86	0.75
1:D:1115:ASN:HD22	1:D:1115:ASN:N	1.84	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1131:LEU:HB2	1:D:1133:PRO:CD	2.16	0.75
1:D:1364:GLU:O	1:D:1366:SER:N	2.19	0.75
1:D:1451:GLN:HG3	1:D:1452:LEU:N	2.01	0.75
1:G:1228:ILE:O	1:G:1228:ILE:HG13	1.85	0.75
1:G:1254:VAL:HG22	1:G:1255:SER:N	1.99	0.75
1:G:1447:TYR:HE2	1:G:1450:ARG:HG3	1.51	0.75
2:H:1709:ILE:HG22	2:H:1771:LEU:HD13	1.69	0.75
2:H:1864:ALA:C	2:H:1866:PHE:N	2.40	0.75
2:H:441:LYS:HB3	2:H:445:LYS:HE3	1.66	0.75
1:D:1133:PRO:HD2	1:D:1173:LEU:CD1	2.16	0.75
1:D:1141:ALA:HA	1:D:1144:PHE:CE1	2.20	0.75
2:E:1672:GLN:HG3	2:E:1777:THR:HG23	1.66	0.75
2:E:295:SER:HA	2:E:298:LYS:HE3	1.68	0.75
2:E:373:GLY:HA2	2:E:519:ASN:OD1	1.86	0.75
1:G:1031:GLY:O	1:G:1035:THR:HB	1.86	0.75
1:G:1133:PRO:HD2	1:G:1173:LEU:CD1	2.16	0.75
1:G:1211:ILE:C	1:G:1213:LEU:H	1.89	0.75
1:G:1189:ILE:HD12	1:G:1377:MET:CE	2.16	0.75
1:G:1540:SER:HA	1:G:1575:VAL:CB	2.16	0.75
1:D:1433:HIS:CD2	1:D:1523:ARG:HE	2.05	0.75
2:E:1855:ILE:HG22	2:E:1951:UNK:HA	1.68	0.75
1:G:1067:LEU:CD2	1:G:1073:THR:HA	2.16	0.75
1:G:1142:GLU:O	1:G:1145:LYS:N	2.20	0.75
1:G:1423:LYS:HB2	1:G:1552:ASN:ND2	1.99	0.75
1:G:791:ALA:HA	1:G:794:ILE:HG22	1.69	0.75
2:H:440:ASN:OD1	2:H:477:GLU:HA	1.85	0.75
1:A:1131:LEU:HB2	1:A:1133:PRO:CD	2.15	0.75
1:A:1239:HIS:C	1:A:1241:SER:H	1.90	0.75
2:B:1855:ILE:HG22	2:B:1951:UNK:HA	1.69	0.75
2:B:159:ILE:HB	2:B:503:ASP:OD1	1.87	0.75
1:G:1373:ARG:HG2	1:G:1547:LYS:CD	2.07	0.75
1:G:1454:THR:O	1:G:1457:ALA:HB3	1.86	0.75
1:G:680:ILE:HD12	1:G:680:ILE:H	1.51	0.75
1:A:1133:PRO:HD2	1:A:1173:LEU:CD1	2.17	0.75
1:A:1398:VAL:HG22	1:A:1399:PRO:O	1.86	0.75
1:A:1409:THR:H	1:A:1651:GLY:HA3	1.52	0.75
1:A:1625:LEU:HD22	1:A:1626:TYR:HB3	1.67	0.75
1:D:1299:LYS:HZ1	1:D:1323:LYS:HZ3	1.32	0.75
2:E:996:UNK:C	2:E:998:UNK:N	2.46	0.75
1:G:1107:GLU:CG	1:G:1108:PRO:HD3	2.17	0.75
1:G:1290:LEU:HA	1:G:1701:LYS:HZ2	1.52	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1586:GLY:C	1:G:1588:ALA:H	1.89	0.75
1:G:1618:LEU:HD22	1:G:1623:TYR:OH	1.87	0.75
2:H:1041:UNK:O	2:H:1043:UNK:N	2.18	0.75
2:H:1869:GLU:HA	2:H:1872:GLN:HB3	1.68	0.75
2:H:295:SER:HA	2:H:298:LYS:HE3	1.69	0.75
1:A:1097:ILE:HG23	1:A:1098:LEU:HD22	1.68	0.75
1:A:1107:GLU:CB	1:A:1108:PRO:CD	2.63	0.75
1:A:1110:LEU:CD1	1:A:1188:GLN:H	1.99	0.75
1:A:1340:SER:O	1:A:1341:PHE:HB3	1.86	0.75
1:A:1362:PRO:HA	1:A:1365:MET:HE1	1.69	0.75
1:A:1586:GLY:C	1:A:1588:ALA:H	1.88	0.75
2:B:1869:GLU:HA	2:B:1872:GLN:HB3	1.67	0.75
2:B:836:UNK:HA	2:B:1028:UNK:HA	1.67	0.75
1:D:1107:GLU:CG	1:D:1108:PRO:HD3	2.16	0.75
1:D:1211:ILE:C	1:D:1213:LEU:H	1.90	0.75
1:D:1418:VAL:HA	1:D:1419:PRO:O	1.86	0.75
1:D:1455:ARG:HH22	1:D:1458:GLN:HB2	1.52	0.75
2:E:100:ASP:OD2	2:E:255:LEU:HD11	1.87	0.75
2:E:339:LEU:HD12	2:E:340:SER:N	2.02	0.75
1:G:1308:SER:HB2	1:G:1590:ALA:HB2	1.67	0.75
2:H:373:GLY:HA2	2:H:519:ASN:OD1	1.87	0.75
1:A:1077:ASP:OD2	1:A:1090:LYS:HE2	1.87	0.75
1:A:1106:ILE:O	1:A:1106:ILE:HG22	1.86	0.75
1:A:1455:ARG:HH22	1:A:1458:GLN:HB2	1.51	0.75
1:A:1520:ALA:N	1:A:1521:PRO:HD3	2.01	0.75
1:A:1536:LEU:HB3	1:A:1638:ALA:HB3	1.69	0.75
2:B:1347:UNK:O	2:B:1349:UNK:N	2.19	0.75
2:B:184:VAL:HG22	2:B:188:ILE:HG12	1.68	0.75
2:B:60:LEU:HA	2:B:63:LYS:HB3	1.67	0.75
1:D:1340:SER:O	1:D:1341:PHE:HB3	1.87	0.75
1:D:1444:ASN:HD22	1:D:1444:ASN:N	1.83	0.75
2:E:91:PHE:O	2:E:96:LEU:HD21	1.87	0.75
1:G:1036:ARG:HE	1:G:1037:TRP:N	1.85	0.75
1:G:1520:ALA:N	1:G:1521:PRO:HD3	2.00	0.75
2:H:1149:UNK:O	2:H:1151:UNK:N	2.20	0.75
2:H:170:PHE:HB2	2:H:231:LEU:HD11	1.69	0.75
2:H:91:PHE:O	2:H:96:LEU:HD21	1.85	0.75
1:A:1191:THR:HA	1:A:1193:TRP:CH2	2.22	0.74
1:A:1189:ILE:HD12	1:A:1377:MET:CE	2.16	0.74
2:B:29:ILE:C	2:B:31:SER:H	1.88	0.74
2:E:1864:ALA:C	2:E:1866:PHE:N	2.40	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:441:LYS:HB3	2:E:445:LYS:HE3	1.68	0.74
1:G:1107:GLU:CB	1:G:1108:PRO:CD	2.65	0.74
1:G:1369:ALA:HA	1:G:1547:LYS:CD	2.17	0.74
2:H:956:UNK:C	2:H:958:UNK:H	2.00	0.74
1:A:1107:GLU:CD	1:A:1108:PRO:HD3	2.07	0.74
2:B:131:ILE:HD13	2:B:182:VAL:HG13	1.69	0.74
1:D:710:PHE:CD1	1:D:736:PRO:HB3	2.22	0.74
2:E:1723:GLY:HA3	2:E:1733:TYR:CZ	2.22	0.74
2:E:38:ASN:O	2:E:42:PRO:HD3	1.87	0.74
2:H:163:GLN:HB3	2:H:423:VAL:HG22	1.70	0.74
2:H:1939:HIS:CG	2:H:1940:LEU:N	2.55	0.74
2:H:334:VAL:O	2:H:420:PHE:HD2	1.70	0.74
1:A:1451:GLN:HG3	1:A:1452:LEU:N	2.02	0.74
1:A:632:UNK:CB	1:A:894:ARG:HH12	2.00	0.74
2:B:1888:ILE:HA	2:B:1891:TYR:OH	1.87	0.74
2:B:441:LYS:HB3	2:B:445:LYS:HE3	1.67	0.74
1:D:1307:THR:CG2	1:D:1586:GLY:HA2	2.16	0.74
1:D:678:VAL:CG2	1:D:767:ALA:HB3	2.18	0.74
1:G:1378:GLU:CB	1:G:1585:LYS:HD2	2.17	0.74
1:G:1418:VAL:HA	1:G:1419:PRO:O	1.87	0.74
1:G:678:VAL:HG22	1:G:767:ALA:HB3	1.70	0.74
1:A:1536:LEU:H	1:A:1536:LEU:HD12	1.51	0.74
2:B:221:ASN:N	2:B:221:ASN:HD22	1.83	0.74
2:B:215:ILE:HD13	2:B:240:LEU:HD11	1.69	0.74
1:D:1020:VAL:HG22	1:D:1403:ILE:HA	1.69	0.74
1:D:1436:VAL:O	1:D:1437:LYS:O	2.06	0.74
1:G:1155:PHE:O	1:G:1156:GLU:HB3	1.88	0.74
1:G:1307:THR:CG2	1:G:1586:GLY:HA2	2.17	0.74
1:G:680:ILE:N	1:G:680:ILE:HD12	2.01	0.74
2:H:1877:ARG:HB3	2:H:1929:LYS:NZ	2.02	0.74
2:B:100:ASP:OD2	2:B:255:LEU:HD11	1.88	0.74
2:B:1751:ILE:HD13	2:B:1840:VAL:HG21	1.69	0.74
2:B:443:LEU:HB3	2:B:449:SER:HB2	1.70	0.74
1:G:1035:THR:HG23	1:G:1045:PHE:CE1	2.22	0.74
1:G:1109:GLU:C	1:G:1111:PHE:H	1.91	0.74
1:G:1119:LYS:HG3	1:G:1121:MET:HB2	1.68	0.74
1:G:714:VAL:C	1:G:716:ASP:H	1.87	0.74
2:H:1907:LEU:HD23	2:H:1907:LEU:H	1.52	0.74
1:A:1335:PHE:CE1	1:A:1340:SER:HB2	2.14	0.74
1:A:797:THR:HG22	1:A:798:ASN:N	2.01	0.74
2:B:241:ILE:CG2	2:B:242:GLY:N	2.51	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1067:LEU:CD2	1:D:1073:THR:HA	2.14	0.74
1:D:1107:GLU:CB	1:D:1108:PRO:CD	2.65	0.74
1:D:1342:GLU:O	1:D:1346:MET:N	2.21	0.74
1:D:632:UNK:CB	1:D:894:ARG:HH12	2.01	0.74
2:E:1149:UNK:O	2:E:1151:UNK:N	2.20	0.74
2:E:184:VAL:HG22	2:E:188:ILE:HG12	1.69	0.74
1:G:1191:THR:HA	1:G:1193:TRP:CH2	2.22	0.74
1:A:1308:SER:HB2	1:A:1590:ALA:HB2	1.69	0.74
2:B:373:GLY:HA2	2:B:519:ASN:OD1	1.88	0.74
2:B:437:ASP:HA	2:B:440:ASN:HD22	1.50	0.74
1:D:1586:GLY:C	1:D:1588:ALA:H	1.91	0.74
1:D:717:TYR:C	1:D:719:GLN:H	1.91	0.74
1:G:1451:GLN:HG3	1:G:1452:LEU:N	2.02	0.74
1:G:968:VAL:HG13	2:H:1513:UNK:CB	2.18	0.74
2:H:1810:GLY:O	2:H:1813:ALA:HB3	1.88	0.74
2:H:184:VAL:HG22	2:H:188:ILE:HG12	1.69	0.74
1:A:1540:SER:HA	1:A:1575:VAL:CB	2.16	0.74
1:D:1105:LEU:HD13	1:D:1111:PHE:HZ	1.53	0.74
1:D:714:VAL:C	1:D:716:ASP:H	1.88	0.74
2:E:1709:ILE:HG22	2:E:1771:LEU:HD13	1.69	0.74
2:E:1907:LEU:H	2:E:1907:LEU:HD23	1.51	0.74
2:E:437:ASP:HA	2:E:440:ASN:HD22	1.52	0.74
1:G:1057:MET:SD	1:G:1106:ILE:HD11	2.28	0.74
1:G:1126:ILE:HG22	1:G:1127:VAL:N	2.01	0.74
1:G:1226:SER:O	1:G:1228:ILE:HG23	1.86	0.74
1:G:1424:GLY:O	1:G:1426:LEU:N	2.19	0.74
1:G:1373:ARG:HD3	1:G:1547:LYS:HB3	1.70	0.74
1:A:1377:MET:HG3	1:A:1377:MET:O	1.87	0.74
1:A:1593:MET:O	1:A:1596:ALA:HB3	1.88	0.74
1:D:1426:LEU:CD2	1:D:1650:GLY:HA3	2.18	0.74
2:E:170:PHE:HB2	2:E:231:LEU:HD11	1.69	0.74
2:E:494:THR:HB	2:E:520:LYS:NZ	2.02	0.74
1:G:1129:GLU:OE1	1:G:1178:ALA:HB2	1.87	0.74
1:G:1022:THR:OG1	1:G:1388:MET:HG3	1.87	0.74
2:H:1720:HIS:C	2:H:1721:PHE:HD1	1.91	0.74
2:H:1888:ILE:HG23	2:H:1889:VAL:HG23	1.67	0.74
1:A:1342:GLU:O	1:A:1346:MET:N	2.21	0.74
1:A:1418:VAL:HA	1:A:1419:PRO:O	1.88	0.74
1:A:1433:HIS:CD2	1:A:1523:ARG:HE	2.05	0.74
1:A:680:ILE:HG23	1:A:769:ILE:CG2	2.18	0.74
1:A:796:LEU:HG	1:A:797:THR:H	1.53	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1723:GLY:HA3	2:B:1733:TYR:CE1	2.23	0.74
2:B:40:ILE:C	2:B:41:LEU:HD23	2.08	0.74
1:D:1363:ALA:O	1:D:1364:GLU:O	2.05	0.74
1:D:1422:GLY:HA2	1:D:1425:ILE:HB	1.69	0.74
1:D:574:UNK:HA	1:D:577:UNK:CB	2.17	0.74
1:D:792:HIS:CE1	1:D:796:LEU:HD21	2.23	0.74
2:E:1731:GLU:O	2:E:1735:ALA:HB3	1.87	0.74
1:G:1202:ASP:HA	1:G:1205:ILE:HD11	1.70	0.74
1:G:1409:THR:H	1:G:1651:GLY:HA3	1.50	0.74
1:G:632:UNK:CB	1:G:894:ARG:HH12	2.01	0.74
2:H:1173:UNK:HA	2:H:1182:UNK:HA	1.68	0.74
2:H:1809:LEU:HD11	2:H:1831:VAL:HG13	1.70	0.74
2:E:215:ILE:HD13	2:E:240:LEU:HD11	1.70	0.73
2:E:924:UNK:C	2:E:926:UNK:N	2.49	0.73
1:G:680:ILE:HG23	1:G:769:ILE:HG23	1.70	0.73
2:H:241:ILE:CG2	2:H:242:GLY:N	2.51	0.73
2:H:494:THR:HB	2:H:520:LYS:NZ	2.03	0.73
1:A:1035:THR:HG23	1:A:1045:PHE:CE1	2.23	0.73
2:B:1770:LEU:C	2:B:1772:SER:H	1.92	0.73
2:B:1810:GLY:O	2:B:1813:ALA:HB3	1.88	0.73
1:D:1211:ILE:HA	1:D:1214:PHE:CD2	2.23	0.73
1:D:1230:ASP:OD2	1:D:1232:TYR:HB2	1.87	0.73
1:D:1447:TYR:C	1:D:1449:LYS:H	1.90	0.73
1:D:749:ILE:HD12	1:D:806:VAL:HG22	1.68	0.73
2:E:221:ASN:HD22	2:E:221:ASN:N	1.84	0.73
2:H:1715:VAL:C	2:H:1718:THR:HG22	2.08	0.73
2:H:1770:LEU:C	2:H:1772:SER:H	1.91	0.73
2:H:303:LEU:HA	2:H:306:ILE:HD12	1.70	0.73
2:H:40:ILE:C	2:H:41:LEU:HD23	2.08	0.73
1:A:1211:ILE:HA	1:A:1214:PHE:CD2	2.22	0.73
2:B:163:GLN:HB3	2:B:423:VAL:HG22	1.70	0.73
2:B:1809:LEU:HD11	2:B:1831:VAL:HG13	1.70	0.73
2:B:1878:VAL:HG23	2:B:1879:GLY:H	1.53	0.73
2:B:494:THR:HB	2:B:520:LYS:NZ	2.03	0.73
1:D:1424:GLY:O	1:D:1426:LEU:N	2.20	0.73
2:E:131:ILE:HD13	2:E:182:VAL:HG13	1.69	0.73
2:E:209:PHE:CZ	2:E:235:PRO:HB2	2.23	0.73
2:E:286:THR:HG21	2:E:292:PHE:HD1	1.53	0.73
2:E:60:LEU:HA	2:E:63:LYS:HB3	1.69	0.73
1:G:1302:VAL:HG23	1:G:1303:GLY:H	1.52	0.73
1:G:1436:VAL:O	1:G:1437:LYS:O	2.06	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1444:ASN:HD22	1:G:1444:ASN:N	1.86	0.73
1:G:1370:THR:H	1:G:1547:LYS:HD2	1.51	0.73
1:G:903:PHE:HA	1:G:906:LEU:HD23	1.68	0.73
2:H:836:UNK:HA	2:H:1028:UNK:HA	1.69	0.73
1:A:1126:ILE:HG22	1:A:1127:VAL:N	2.03	0.73
1:A:1148:HIS:O	1:A:1150:ASP:N	2.21	0.73
1:A:997:PRO:HG2	1:A:1002:LYS:HE2	1.69	0.73
2:B:1731:GLU:O	2:B:1735:ALA:HB3	1.87	0.73
2:B:1796:GLY:O	2:B:1797:LEU:HD23	1.88	0.73
2:B:170:PHE:HB2	2:B:231:LEU:HD11	1.70	0.73
2:B:43:GLU:HB2	2:B:44:PRO:CD	2.16	0.73
1:D:1220:VAL:O	1:D:1224:ILE:HG22	1.87	0.73
1:D:1226:SER:O	1:D:1228:ILE:HG23	1.89	0.73
1:D:1258:ARG:HG2	1:D:1258:ARG:HH11	1.52	0.73
2:E:1194:UNK:O	2:E:1200:UNK:HA	1.89	0.73
2:E:40:ILE:C	2:E:41:LEU:HD23	2.08	0.73
1:G:1067:LEU:HD13	1:G:1068:LYS:N	2.03	0.73
1:G:1239:HIS:C	1:G:1241:SER:H	1.92	0.73
1:G:1329:VAL:HG12	1:G:1385:GLN:H	1.53	0.73
1:G:1342:GLU:O	1:G:1346:MET:N	2.20	0.73
2:H:170:PHE:HD2	2:H:174:ARG:HH21	1.36	0.73
2:H:286:THR:HG21	2:H:292:PHE:HD1	1.53	0.73
1:A:1109:GLU:C	1:A:1111:PHE:H	1.89	0.73
1:A:1303:GLY:O	1:A:1307:THR:N	2.21	0.73
1:A:749:ILE:HD12	1:A:806:VAL:HG22	1.71	0.73
1:D:1558:ASN:OD1	1:D:1620:GLN:HB3	1.86	0.73
1:D:1409:THR:N	1:D:1651:GLY:HA3	2.03	0.73
1:G:1238:VAL:HA	1:G:1720:ALA:HB1	1.69	0.73
1:G:1028:GLY:HA3	1:G:1591:TRP:CZ2	2.23	0.73
1:A:1169:LYS:HG3	1:A:1170:GLY:N	2.02	0.73
1:A:678:VAL:O	1:A:703:VAL:HG22	1.88	0.73
2:B:443:LEU:HB3	2:B:449:SER:CB	2.19	0.73
1:D:1064:ASN:OD1	1:D:1069:GLY:HA3	1.89	0.73
1:D:1238:VAL:HA	1:D:1720:ALA:HB1	1.70	0.73
2:E:1877:ARG:HB3	2:E:1929:LYS:NZ	2.03	0.73
2:E:836:UNK:HA	2:E:1028:UNK:HA	1.70	0.73
1:G:1008:GLU:C	1:G:1010:GLU:H	1.88	0.73
1:G:1670:TYR:O	1:G:1673:TYR:HB3	1.88	0.73
1:G:749:ILE:HD12	1:G:806:VAL:HG22	1.70	0.73
2:H:443:LEU:HB3	2:H:449:SER:CB	2.18	0.73
2:H:69:SER:HA	2:H:80:PHE:HB3	1.70	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1670:TYR:O	1:A:1673:TYR:HB3	1.89	0.73
2:B:1536:UNK:O	2:B:1538:UNK:N	2.21	0.73
2:B:1834:ARG:HG3	2:B:1834:ARG:HH11	1.52	0.73
2:B:1742:VAL:HG22	2:B:1837:THR:HG23	1.71	0.73
2:B:1883:GLY:HA2	2:B:1894:GLU:OE1	1.87	0.73
2:B:209:PHE:CZ	2:B:235:PRO:HB2	2.23	0.73
1:D:796:LEU:HG	1:D:797:THR:H	1.53	0.73
1:G:1064:ASN:OD1	1:G:1069:GLY:HA3	1.89	0.73
1:G:1240:VAL:C	1:G:1242:GLU:H	1.92	0.73
1:G:1554:SER:HB3	1:G:1623:TYR:OH	1.87	0.73
1:G:869:ILE:HG21	1:G:901:MET:SD	2.29	0.73
2:H:1194:UNK:O	2:H:1200:UNK:HA	1.88	0.73
2:H:1751:ILE:HD13	2:H:1840:VAL:HG21	1.71	0.73
2:H:1878:VAL:HG23	2:H:1879:GLY:H	1.54	0.73
2:H:371:VAL:HB	2:H:489:LYS:HA	1.70	0.73
1:A:1635:GLY:O	1:A:1636:VAL:C	2.27	0.73
1:A:1707:THR:O	1:A:1709:GLU:N	2.22	0.73
1:A:678:VAL:CG2	1:A:767:ALA:HB3	2.19	0.73
2:B:1863:ALA:HA	2:B:1866:PHE:CD1	2.22	0.73
2:B:38:ASN:O	2:B:42:PRO:HD3	1.87	0.73
1:D:1259:GLY:HA2	1:D:1263:ASP:CB	2.17	0.73
1:D:1558:ASN:C	1:D:1560:MET:H	1.92	0.73
1:D:468:UNK:C	1:D:470:UNK:N	2.48	0.73
1:D:680:ILE:HD12	1:D:680:ILE:N	2.04	0.73
2:E:443:LEU:HB3	2:E:449:SER:HB2	1.71	0.73
1:G:1433:HIS:CD2	1:G:1523:ARG:HE	2.06	0.73
1:G:1378:GLU:HB2	1:G:1585:LYS:HD2	1.71	0.73
2:H:1854:MET:HB2	2:H:1893:VAL:O	1.89	0.73
1:A:1064:ASN:OD1	1:A:1069:GLY:HA3	1.88	0.73
1:A:1202:ASP:HA	1:A:1205:ILE:HD11	1.71	0.73
1:A:1441:PRO:O	1:A:1442:ASN:HB2	1.89	0.73
1:A:644:UNK:C	1:A:646:UNK:H	2.02	0.73
2:B:371:VAL:HB	2:B:489:LYS:HA	1.71	0.73
1:D:1441:PRO:O	1:D:1442:ASN:HB2	1.88	0.73
1:D:1447:TYR:HE2	1:D:1450:ARG:HG3	1.52	0.73
1:G:1109:GLU:O	1:G:1110:LEU:HB2	1.89	0.73
1:G:717:TYR:C	1:G:719:GLN:H	1.93	0.73
2:H:1880:LYS:HB3	2:H:1899:VAL:HG21	1.71	0.73
1:A:1243:VAL:HA	1:A:1324:ALA:CB	2.19	0.73
1:A:1351:ASN:ND2	1:A:1354:GLU:HB2	2.03	0.73
1:A:1370:THR:N	1:A:1547:LYS:HD2	2.04	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1401:TYR:O	1:A:1658:PRO:HB3	1.87	0.73
2:B:1148:UNK:O	2:B:1149:UNK:O	2.06	0.73
2:B:1715:VAL:HB	2:B:1770:LEU:N	2.01	0.73
2:B:67:TYR:C	2:B:69:SER:N	2.42	0.73
1:D:1002:LYS:O	1:D:1006:PRO:HD2	1.89	0.73
1:D:997:PRO:HG2	1:D:1002:LYS:HE2	1.70	0.73
2:E:1715:VAL:HB	2:E:1770:LEU:N	1.99	0.73
2:E:633:UNK:C	2:E:635:UNK:H	2.01	0.73
1:G:1103:ILE:CA	1:G:1106:ILE:HD12	2.17	0.73
1:G:1398:VAL:HG22	1:G:1399:PRO:C	2.07	0.73
1:G:1692:MET:HA	1:G:1697:LEU:HD11	1.70	0.73
1:G:1795:UNK:HA	1:G:1799:UNK:CB	2.18	0.73
2:H:1347:UNK:O	2:H:1349:UNK:N	2.21	0.73
2:H:38:ASN:O	2:H:42:PRO:HD3	1.88	0.73
1:A:1302:VAL:HG23	1:A:1303:GLY:H	1.52	0.72
1:A:1426:LEU:CD2	1:A:1650:GLY:HA3	2.19	0.72
1:A:1706:TYR:N	1:A:1706:TYR:CD1	2.56	0.72
1:A:1795:UNK:HA	1:A:1799:UNK:CB	2.19	0.72
1:A:710:PHE:CD1	1:A:736:PRO:HB3	2.24	0.72
2:B:1149:UNK:O	2:B:1151:UNK:N	2.22	0.72
2:B:1703:GLY:O	2:B:1721:PHE:CE2	2.42	0.72
1:D:1299:LYS:NZ	1:D:1323:LYS:HZ3	1.86	0.72
1:D:644:UNK:C	1:D:646:UNK:H	2.02	0.72
2:E:163:GLN:HB3	2:E:423:VAL:HG22	1.71	0.72
2:E:1751:ILE:HD13	2:E:1840:VAL:HG21	1.71	0.72
1:G:1211:ILE:C	1:G:1213:LEU:N	2.40	0.72
1:G:1303:GLY:O	1:G:1307:THR:N	2.22	0.72
2:H:1536:UNK:O	2:H:1538:UNK:N	2.21	0.72
2:H:1740:THR:OG1	2:H:1751:ILE:HB	1.87	0.72
1:A:1207:GLN:O	1:A:1209:ASP:N	2.19	0.72
2:B:1720:HIS:C	2:B:1721:PHE:HD1	1.91	0.72
1:D:1178:ALA:O	1:D:1179:LEU:HB3	1.88	0.72
1:D:1239:HIS:C	1:D:1241:SER:H	1.92	0.72
1:D:1243:VAL:HA	1:D:1324:ALA:CB	2.20	0.72
1:D:547:UNK:C	1:D:549:UNK:N	2.50	0.72
2:E:1782:THR:OG1	2:E:1809:LEU:HD21	1.89	0.72
2:E:1939:HIS:CG	2:E:1940:LEU:N	2.58	0.72
2:E:436:SER:O	2:E:439:ILE:HG12	1.89	0.72
1:G:1254:VAL:HA	1:G:1257:LEU:HB2	1.70	0.72
1:G:1430:ARG:HG2	1:G:1431:GLU:H	1.52	0.72
1:G:1478:PRO:HB3	1:G:1481:ASP:HB2	1.71	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1544:THR:OG1	1:G:1546:THR:HG22	1.89	0.72
1:G:796:LEU:HG	1:G:797:THR:H	1.53	0.72
2:H:1148:UNK:O	2:H:1149:UNK:O	2.07	0.72
2:H:168:ASP:HB3	2:H:171:GLU:CB	2.19	0.72
2:H:215:ILE:HD13	2:H:240:LEU:HD11	1.72	0.72
2:H:455:ILE:CD1	2:H:469:ARG:HB2	2.18	0.72
1:A:1436:VAL:O	1:A:1437:LYS:O	2.07	0.72
1:A:1409:THR:N	1:A:1651:GLY:HA3	2.04	0.72
1:A:1403:ILE:CG2	1:A:1656:VAL:HG13	2.19	0.72
2:B:1268:UNK:C	2:B:1270:UNK:H	1.99	0.72
2:B:159:ILE:HG23	2:B:271:THR:O	1.90	0.72
2:B:260:PRO:HG2	2:B:287:ASP:O	1.89	0.72
1:D:1232:TYR:OH	1:D:1704:ALA:HA	1.89	0.72
1:D:1351:ASN:ND2	1:D:1354:GLU:HB2	2.03	0.72
1:D:680:ILE:H	1:D:680:ILE:HD12	1.54	0.72
2:E:1268:UNK:C	2:E:1270:UNK:H	2.00	0.72
2:E:1347:UNK:O	2:E:1349:UNK:N	2.23	0.72
2:E:1809:LEU:HD11	2:E:1831:VAL:HG13	1.70	0.72
2:E:1863:ALA:HA	2:E:1866:PHE:CD1	2.23	0.72
1:G:1308:SER:O	1:G:1311:SER:HB3	1.89	0.72
1:G:1243:VAL:HA	1:G:1324:ALA:CB	2.18	0.72
1:G:1422:GLY:HA2	1:G:1425:ILE:HB	1.70	0.72
1:G:1441:PRO:O	1:G:1442:ASN:HB2	1.87	0.72
2:H:1715:VAL:HG23	2:H:1770:LEU:HB2	1.71	0.72
2:H:247:ALA:O	2:H:251:VAL:HG23	1.89	0.72
2:H:443:LEU:HB3	2:H:449:SER:HB2	1.70	0.72
1:A:1599:ILE:HD11	1:A:1639:VAL:HG12	1.72	0.72
1:A:1692:MET:HA	1:A:1697:LEU:HD11	1.71	0.72
1:D:1401:TYR:O	1:D:1658:PRO:HB3	1.89	0.72
1:D:1541:PHE:HE2	1:D:1554:SER:HG	1.36	0.72
1:D:1635:GLY:O	1:D:1636:VAL:C	2.27	0.72
1:D:1795:UNK:HA	1:D:1799:UNK:CB	2.20	0.72
2:E:1885:LEU:HD22	2:E:1891:TYR:HD2	1.55	0.72
1:G:1020:VAL:HG22	1:G:1403:ILE:HA	1.72	0.72
1:G:1115:ASN:HD22	1:G:1115:ASN:N	1.85	0.72
1:G:1409:THR:N	1:G:1651:GLY:HA3	2.04	0.72
2:H:100:ASP:OD2	2:H:255:LEU:HD11	1.88	0.72
1:A:1096:SER:C	1:A:1098:LEU:H	1.93	0.72
1:A:1398:VAL:HG22	1:A:1399:PRO:C	2.09	0.72
1:A:1411:THR:OG1	1:A:1412:ASP:N	2.22	0.72
1:A:1430:ARG:HG2	1:A:1431:GLU:H	1.54	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1821:VAL:HG23	2:B:1822:MET:HG3	1.70	0.72
2:B:1864:ALA:C	2:B:1866:PHE:N	2.42	0.72
2:B:286:THR:HG21	2:B:292:PHE:HD1	1.53	0.72
1:D:1155:PHE:O	1:D:1156:GLU:HB3	1.89	0.72
1:D:688:ILE:O	1:D:692:VAL:HG23	1.89	0.72
1:D:680:ILE:HG23	1:D:769:ILE:HG23	1.70	0.72
1:D:775:PRO:O	1:D:776:GLU:HB2	1.89	0.72
1:G:1148:HIS:O	1:G:1150:ASP:N	2.22	0.72
1:G:1329:VAL:CG1	1:G:1385:GLN:H	2.02	0.72
1:G:1401:TYR:O	1:G:1658:PRO:HB3	1.90	0.72
1:G:1410:ALA:CB	1:G:1426:LEU:HB2	2.20	0.72
1:G:1238:VAL:CA	1:G:1720:ALA:HB1	2.20	0.72
1:G:710:PHE:O	1:G:711:SER:HB3	1.89	0.72
2:H:159:ILE:HG23	2:H:271:THR:O	1.89	0.72
1:A:1240:VAL:C	1:A:1242:GLU:H	1.92	0.72
1:A:1554:SER:HB3	1:A:1623:TYR:OH	1.90	0.72
1:D:1109:GLU:C	1:D:1111:PHE:H	1.91	0.72
1:D:1189:ILE:HD12	1:D:1377:MET:CE	2.19	0.72
1:D:1398:VAL:HG22	1:D:1399:PRO:C	2.10	0.72
1:D:1403:ILE:CG2	1:D:1656:VAL:HG13	2.20	0.72
1:D:904:ASN:HD22	1:D:904:ASN:N	1.87	0.72
2:E:1173:UNK:HA	2:E:1182:UNK:HA	1.70	0.72
2:E:1536:UNK:O	2:E:1538:UNK:N	2.23	0.72
2:E:159:ILE:HG23	2:E:271:THR:O	1.90	0.72
1:G:1652:GLN:NE2	1:G:1653:ALA:O	2.23	0.72
2:H:996:UNK:C	2:H:998:UNK:N	2.47	0.72
1:A:1605:ILE:HG12	1:A:1606:PRO:HA	1.72	0.72
2:B:241:ILE:HG23	2:B:242:GLY:N	2.05	0.72
2:B:295:SER:HA	2:B:298:LYS:HE3	1.70	0.72
1:D:1077:ASP:OD2	1:D:1090:LYS:HE2	1.89	0.72
1:D:1028:GLY:HA3	1:D:1591:TRP:CZ2	2.25	0.72
1:D:674:LYS:HG2	1:D:675:ASP:OD2	1.90	0.72
1:D:757:LYS:C	1:D:758:ASN:HD22	1.93	0.72
2:E:1854:MET:HB2	2:E:1893:VAL:O	1.88	0.72
2:E:303:LEU:HA	2:E:306:ILE:HD12	1.72	0.72
1:G:1426:LEU:CD2	1:G:1650:GLY:HA3	2.20	0.72
1:G:1232:TYR:HE1	1:G:1705:PRO:HD3	1.55	0.72
1:G:712:LYS:HG2	1:G:716:ASP:OD2	1.90	0.72
2:H:1731:GLU:O	2:H:1735:ALA:HB3	1.88	0.72
1:A:1232:TYR:OH	1:A:1704:ALA:HA	1.90	0.72
1:A:1580:LEU:O	1:A:1580:LEU:HG	1.88	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1880:LYS:HB3	2:B:1899:VAL:HG21	1.70	0.72
2:B:996:UNK:C	2:B:998:UNK:N	2.47	0.72
1:D:1593:MET:O	1:D:1596:ALA:HB3	1.90	0.72
1:G:1604:ILE:HG22	1:G:1605:ILE:N	2.02	0.72
1:G:710:PHE:CD1	1:G:736:PRO:HB3	2.24	0.72
2:H:1268:UNK:C	2:H:1270:UNK:H	2.02	0.72
2:B:318:SER:N	2:H:1307:UNK:CB	2.52	0.72
2:H:1737:ILE:O	2:H:1738:PHE:HB3	1.90	0.72
1:A:1105:LEU:HD13	1:A:1111:PHE:HZ	1.53	0.72
1:A:1308:SER:O	1:A:1311:SER:HB3	1.90	0.72
1:A:1478:PRO:HB3	1:A:1481:ASP:HB2	1.71	0.72
1:A:1604:ILE:HG22	1:A:1605:ILE:N	2.02	0.72
1:A:1714:VAL:HG11	1:A:1731:LEU:CD1	2.20	0.72
1:A:547:UNK:C	1:A:549:UNK:N	2.49	0.72
1:A:792:HIS:CE1	1:A:796:LEU:HD21	2.24	0.72
2:B:309:ARG:HG3	2:B:439:ILE:HG22	1.72	0.72
2:B:69:SER:HA	2:B:80:PHE:HB3	1.72	0.72
2:E:241:ILE:CG2	2:E:242:GLY:N	2.53	0.72
1:G:1133:PRO:C	1:G:1134:PHE:CD1	2.63	0.72
1:G:1128:GLU:HA	1:G:1177:LYS:HA	1.72	0.72
1:G:757:LYS:C	1:G:758:ASN:HD22	1.93	0.72
2:H:131:ILE:HD13	2:H:182:VAL:HG13	1.70	0.72
2:H:221:ASN:HD22	2:H:221:ASN:N	1.83	0.72
1:A:1089:VAL:O	1:A:1093:TYR:HB2	1.90	0.72
1:A:1133:PRO:C	1:A:1134:PHE:CD1	2.63	0.72
2:B:1854:MET:HB2	2:B:1893:VAL:O	1.90	0.72
2:B:87:CYS:O	2:B:90:GLU:HB3	1.90	0.72
1:D:1308:SER:HB2	1:D:1590:ALA:HB2	1.70	0.72
1:D:1692:MET:HA	1:D:1697:LEU:HD11	1.71	0.72
1:D:861:GLN:O	1:D:862:LEU:HD23	1.90	0.72
1:G:1178:ALA:O	1:G:1179:LEU:HB3	1.88	0.72
1:G:997:PRO:HG2	1:G:1002:LYS:HE2	1.70	0.72
2:H:1855:ILE:HG22	2:H:1951:UNK:HA	1.69	0.72
2:H:633:UNK:C	2:H:635:UNK:H	2.03	0.72
1:A:1151:LYS:HD2	1:A:1151:LYS:H	1.55	0.71
1:A:468:UNK:C	1:A:470:UNK:N	2.46	0.71
1:A:680:ILE:HD12	1:A:680:ILE:N	2.05	0.71
2:B:1687:ALA:CB	2:B:1787:ALA:HB1	2.20	0.71
2:B:478:ARG:C	2:B:480:VAL:H	1.93	0.71
2:B:529:VAL:O	2:B:542:GLY:HA2	1.90	0.71
1:D:1022:THR:OG1	1:D:1388:MET:HG3	1.90	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:1878:VAL:HG23	2:E:1879:GLY:H	1.53	0.71
2:E:443:LEU:HB3	2:E:449:SER:CB	2.19	0.71
2:E:159:ILE:HB	2:E:503:ASP:OD1	1.89	0.71
2:E:67:TYR:C	2:E:69:SER:N	2.42	0.71
1:G:1447:TYR:C	1:G:1449:LYS:H	1.90	0.71
1:G:1583:HIS:CG	1:G:1584:PRO:HA	2.25	0.71
1:G:644:UNK:C	1:G:646:UNK:H	2.02	0.71
2:B:924:UNK:O	2:B:926:UNK:N	2.22	0.71
1:D:1067:LEU:HD22	1:D:1068:LYS:H	1.55	0.71
1:D:1203:ASP:O	1:D:1206:SER:HB3	1.90	0.71
1:D:1478:PRO:HB3	1:D:1481:ASP:HB2	1.71	0.71
1:D:1603:GLY:C	1:D:1604:ILE:HD13	2.11	0.71
2:E:1742:VAL:HG22	2:E:1837:THR:HG23	1.72	0.71
1:G:574:UNK:HA	1:G:577:UNK:CB	2.20	0.71
2:H:436:SER:O	2:H:439:ILE:HG12	1.90	0.71
2:H:478:ARG:C	2:H:480:VAL:H	1.90	0.71
1:A:574:UNK:HA	1:A:577:UNK:CB	2.20	0.71
1:A:904:ASN:N	1:A:904:ASN:HD22	1.88	0.71
1:D:1089:VAL:O	1:D:1093:TYR:HB2	1.90	0.71
1:D:1104:ARG:O	1:D:1105:LEU:HG	1.91	0.71
1:D:1373:ARG:HD3	1:D:1547:LYS:HB3	1.71	0.71
2:E:1883:GLY:HA2	2:E:1894:GLU:OE1	1.90	0.71
2:E:29:ILE:O	2:E:34:GLN:HG3	1.91	0.71
2:E:471:LEU:HG	2:E:472:SER:N	2.04	0.71
1:G:1232:TYR:OH	1:G:1704:ALA:HA	1.90	0.71
1:G:1593:MET:O	1:G:1596:ALA:HB3	1.90	0.71
2:H:134:LYS:C	2:H:136:PRO:HD3	2.11	0.71
2:H:1723:GLY:HA3	2:H:1733:TYR:CE1	2.26	0.71
2:H:209:PHE:CZ	2:H:235:PRO:HB2	2.25	0.71
1:A:1178:ALA:C	1:A:1179:LEU:HD22	2.10	0.71
1:A:1410:ALA:CB	1:A:1426:LEU:HB2	2.20	0.71
1:A:1558:ASN:OD1	1:A:1620:GLN:HB3	1.89	0.71
2:B:1782:THR:OG1	2:B:1809:LEU:HD21	1.90	0.71
2:B:1874:VAL:HG22	2:B:1928:GLN:HE22	1.56	0.71
2:E:1810:GLY:O	2:E:1813:ALA:HB3	1.90	0.71
2:E:1917:ILE:HG22	2:E:1918:LYS:H	1.54	0.71
2:E:527:VAL:CG1	2:E:541:TYR:HA	2.13	0.71
1:G:1097:ILE:HG23	1:G:1098:LEU:HD22	1.70	0.71
1:G:1243:VAL:HG12	1:G:1324:ALA:CA	2.20	0.71
1:G:1394:LEU:HD11	1:G:1661:LEU:HD21	1.72	0.71
1:A:1329:VAL:CG1	1:A:1385:GLN:H	2.03	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1519:ILE:HD11	1:A:1524:GLY:N	2.05	0.71
1:A:1404:VAL:HA	1:A:1655:VAL:CG2	2.19	0.71
1:A:757:LYS:C	1:A:758:ASN:HD22	1.94	0.71
1:D:1035:THR:HG23	1:D:1045:PHE:CE1	2.25	0.71
1:D:1430:ARG:HG2	1:D:1431:GLU:H	1.55	0.71
1:D:1589:GLY:HA2	1:D:1592:MET:HE3	1.72	0.71
1:D:1652:GLN:NE2	1:D:1653:ALA:O	2.22	0.71
2:E:529:VAL:O	2:E:542:GLY:HA2	1.91	0.71
1:G:1067:LEU:CD2	1:G:1068:LYS:H	2.03	0.71
2:H:263:LEU:C	2:H:265:SER:N	2.42	0.71
2:H:309:ARG:HG3	2:H:439:ILE:HG22	1.72	0.71
2:H:504:PHE:HA	2:H:529:VAL:CG2	2.20	0.71
1:D:1670:TYR:O	1:D:1673:TYR:HB3	1.90	0.71
1:D:826:MET:HE1	1:D:847:GLU:HG3	1.72	0.71
2:E:309:ARG:HG3	2:E:439:ILE:HG22	1.72	0.71
2:E:504:PHE:HA	2:E:529:VAL:CG2	2.21	0.71
2:H:1821:VAL:HG23	2:H:1822:MET:HG3	1.73	0.71
1:A:1008:GLU:C	1:A:1010:GLU:H	1.91	0.71
1:A:1036:ARG:HD3	1:A:1037:TRP:H	1.56	0.71
1:A:710:PHE:O	1:A:711:SER:HB3	1.89	0.71
2:B:1917:ILE:HG22	2:B:1918:LYS:H	1.55	0.71
2:B:1939:HIS:CG	2:B:1940:LEU:N	2.58	0.71
1:D:1097:ILE:O	1:D:1098:LEU:HD22	1.91	0.71
1:D:803:MET:HE3	1:D:822:VAL:HG11	1.73	0.71
1:G:1203:ASP:O	1:G:1206:SER:HB3	1.90	0.71
1:G:1609:ARG:HE	1:G:1610:ASN:N	1.89	0.71
2:H:1326:UNK:C	2:H:1328:UNK:H	2.04	0.71
2:H:2036:UNK:HA	2:H:2039:UNK:CB	2.20	0.71
1:A:680:ILE:HG23	1:A:769:ILE:HG23	1.73	0.71
2:B:259:THR:CG2	2:B:288:SER:HA	2.21	0.71
1:D:1142:GLU:O	1:D:1145:LYS:N	2.22	0.71
1:D:1128:GLU:HA	1:D:1177:LYS:HA	1.73	0.71
1:D:1410:ALA:CB	1:D:1426:LEU:HB2	2.21	0.71
1:D:1604:ILE:HG22	1:D:1605:ILE:N	2.00	0.71
1:D:1232:TYR:HE1	1:D:1705:PRO:HD3	1.54	0.71
2:E:1703:GLY:O	2:E:1721:PHE:CE2	2.43	0.71
2:E:1878:VAL:HB	2:E:1898:TYR:HE1	1.56	0.71
1:G:1340:SER:O	1:G:1341:PHE:HB3	1.89	0.71
1:G:1707:THR:O	1:G:1709:GLU:N	2.24	0.71
2:H:1715:VAL:HG13	2:H:1716:ASN:N	2.06	0.71
2:H:29:ILE:O	2:H:34:GLN:HG3	1.91	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1133:PRO:HD2	1:A:1173:LEU:HD11	1.73	0.71
1:A:1424:GLY:O	1:A:1426:LEU:N	2.20	0.71
1:A:1028:GLY:HA3	1:A:1591:TRP:CZ2	2.25	0.71
1:A:680:ILE:H	1:A:680:ILE:HD12	1.55	0.71
2:B:436:SER:O	2:B:439:ILE:HG12	1.90	0.71
2:B:96:LEU:N	2:B:96:LEU:HD23	2.06	0.71
1:D:1378:GLU:CB	1:D:1585:LYS:HD2	2.21	0.71
1:D:1426:LEU:HD12	1:D:1427:THR:HG23	1.73	0.71
1:D:717:TYR:O	1:D:721:ILE:HG12	1.91	0.71
1:D:722:TYR:O	1:D:724:LYS:N	2.24	0.71
2:E:1874:VAL:HG22	2:E:1928:GLN:HE22	1.55	0.71
1:G:1573:ILE:HA	1:G:1622:GLU:OE2	1.91	0.71
1:G:904:ASN:N	1:G:904:ASN:HD22	1.87	0.71
1:A:1211:ILE:C	1:A:1213:LEU:N	2.41	0.71
2:B:303:LEU:HA	2:B:306:ILE:HD12	1.72	0.71
2:B:372:ASN:O	2:B:376:ASN:HB2	1.91	0.71
1:D:1202:ASP:HA	1:D:1205:ILE:HD11	1.73	0.71
1:D:798:ASN:O	1:D:802:MET:N	2.20	0.71
2:E:1880:LYS:HB3	2:E:1899:VAL:HG21	1.72	0.71
2:E:371:VAL:HB	2:E:489:LYS:HA	1.71	0.71
2:E:478:ARG:C	2:E:480:VAL:H	1.92	0.71
1:G:1152:VAL:O	1:G:1155:PHE:N	2.23	0.71
1:G:1536:LEU:HB3	1:G:1638:ALA:HB3	1.72	0.71
1:G:907:GLY:C	1:G:909:LEU:N	2.45	0.71
2:H:259:THR:HG21	2:H:288:SER:HA	1.73	0.71
1:A:1067:LEU:CD2	1:A:1073:THR:HA	2.15	0.70
1:A:1101:SER:C	1:A:1103:ILE:N	2.45	0.70
1:A:1353:LEU:CA	1:A:1356:PHE:HB2	2.20	0.70
1:A:1426:LEU:HD12	1:A:1427:THR:HG23	1.73	0.70
2:B:134:LYS:C	2:B:136:PRO:HD3	2.10	0.70
2:B:1733:TYR:HH	2:B:1761:SER:HA	1.55	0.70
2:B:1878:VAL:HB	2:B:1898:TYR:HE1	1.56	0.70
2:B:633:UNK:C	2:B:635:UNK:H	2.02	0.70
1:D:1067:LEU:CD2	1:D:1068:LYS:H	2.04	0.70
1:D:1308:SER:O	1:D:1311:SER:HB3	1.90	0.70
1:G:1599:ILE:HD11	1:G:1639:VAL:HG12	1.72	0.70
1:G:722:TYR:O	1:G:724:LYS:N	2.23	0.70
2:H:1715:VAL:HG21	2:H:1766:SER:OG	1.90	0.70
2:H:49:ALA:HA	2:H:118:LYS:HZ2	1.56	0.70
1:A:1002:LYS:O	1:A:1006:PRO:HD2	1.91	0.70
1:A:1106:ILE:HA	1:A:1192:GLY:HA2	1.73	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1096:SER:C	1:D:1098:LEU:H	1.94	0.70
1:D:1335:PHE:CE1	1:D:1340:SER:HB2	2.17	0.70
1:D:846:LEU:O	1:D:849:LEU:HB2	1.91	0.70
1:D:999:LYS:HD2	1:D:1667:GLU:HG2	1.73	0.70
2:E:1148:UNK:O	2:E:1149:UNK:O	2.08	0.70
2:E:1859:PRO:HD2	2:E:1889:VAL:HA	1.72	0.70
1:G:1558:ASN:C	1:G:1560:MET:H	1.94	0.70
1:G:769:ILE:HG13	1:G:771:PHE:CE1	2.27	0.70
2:H:170:PHE:HB3	2:H:231:LEU:HD21	1.73	0.70
1:A:1142:GLU:O	1:A:1144:PHE:N	2.25	0.70
1:A:1422:GLY:HA2	1:A:1425:ILE:HB	1.71	0.70
1:A:1546:THR:HG21	1:A:1549:ASN:HB3	1.73	0.70
1:D:1142:GLU:O	1:D:1144:PHE:N	2.23	0.70
1:D:1243:VAL:HG12	1:D:1324:ALA:CA	2.21	0.70
2:E:1715:VAL:C	2:E:1718:THR:HG22	2.11	0.70
2:E:367:GLU:HG2	2:E:368:ILE:N	2.04	0.70
2:H:1703:GLY:O	2:H:1721:PHE:CE2	2.44	0.70
2:H:96:LEU:HD23	2:H:96:LEU:N	2.06	0.70
1:A:1020:VAL:HG22	1:A:1403:ILE:HA	1.73	0.70
1:A:1078:SER:OG	1:A:1085:ASP:HA	1.91	0.70
1:A:1110:LEU:HG	1:A:1188:GLN:HA	1.73	0.70
1:A:1394:LEU:HD11	1:A:1661:LEU:HD21	1.73	0.70
1:A:881:ASN:O	1:A:883:ILE:N	2.24	0.70
1:D:1394:LEU:HD11	1:D:1661:LEU:HD21	1.72	0.70
1:D:1636:VAL:HG13	1:D:1657:HIS:CG	2.25	0.70
2:E:1197:UNK:O	2:E:1199:UNK:N	2.25	0.70
2:E:134:LYS:C	2:E:136:PRO:HD3	2.11	0.70
2:E:1821:VAL:HG23	2:E:1822:MET:HG3	1.73	0.70
2:E:1989:UNK:O	2:E:1991:UNK:N	2.24	0.70
2:E:23:PRO:HA	2:E:26:SER:HB3	1.74	0.70
1:G:1105:LEU:HD13	1:G:1111:PHE:HZ	1.55	0.70
1:G:1104:ARG:O	1:G:1105:LEU:HG	1.92	0.70
1:A:1155:PHE:O	1:A:1156:GLU:HB3	1.89	0.70
1:A:1329:VAL:HG12	1:A:1385:GLN:H	1.55	0.70
1:A:1573:ILE:HA	1:A:1622:GLU:OE2	1.92	0.70
1:A:1609:ARG:HE	1:A:1610:ASN:N	1.89	0.70
1:A:1238:VAL:CA	1:A:1720:ALA:HB1	2.20	0.70
2:B:1194:UNK:O	2:B:1200:UNK:HA	1.90	0.70
2:B:29:ILE:O	2:B:34:GLN:HG3	1.91	0.70
1:D:1110:LEU:HG	1:D:1188:GLN:HA	1.74	0.70
1:D:1303:GLY:O	1:D:1307:THR:N	2.24	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1714:VAL:HG11	1:D:1731:LEU:CD1	2.21	0.70
2:E:1806:GLY:HA3	2:E:1811:GLU:HA	1.74	0.70
1:G:1110:LEU:CD1	1:G:1120:GLU:HG3	2.20	0.70
1:G:775:PRO:O	1:G:776:GLU:HB2	1.89	0.70
1:A:1067:LEU:HD22	1:A:1068:LYS:H	1.55	0.70
1:A:1128:GLU:HA	1:A:1177:LYS:HA	1.72	0.70
1:A:1558:ASN:C	1:A:1560:MET:H	1.95	0.70
1:A:1625:LEU:HD22	1:A:1625:LEU:C	2.10	0.70
2:B:1737:ILE:O	2:B:1738:PHE:HB3	1.91	0.70
2:B:23:PRO:HA	2:B:26:SER:HB3	1.74	0.70
2:B:504:PHE:HA	2:B:529:VAL:CG2	2.21	0.70
1:D:1126:ILE:HG22	1:D:1127:VAL:N	2.05	0.70
2:E:1731:GLU:C	2:E:1735:ALA:HB3	2.12	0.70
2:E:1770:LEU:C	2:E:1772:SER:H	1.93	0.70
2:E:69:SER:HA	2:E:80:PHE:HB3	1.71	0.70
1:G:1081:LYS:N	1:G:1081:LYS:HD3	2.06	0.70
1:G:1248:GLY:HA2	1:G:1330:GLY:CA	2.21	0.70
2:H:241:ILE:HG23	2:H:242:GLY:N	2.06	0.70
2:H:372:ASN:O	2:H:376:ASN:HB2	1.92	0.70
2:H:851:UNK:O	2:H:853:UNK:N	2.21	0.70
2:B:1789:PHE:CE1	2:B:1798:ILE:HG13	2.27	0.70
2:B:1856:ALA:HA	2:B:1891:TYR:O	1.92	0.70
1:D:1133:PRO:C	1:D:1134:PHE:CD1	2.65	0.70
1:D:1520:ALA:N	1:D:1521:PRO:CD	2.55	0.70
1:D:1378:GLU:HB2	1:D:1585:LYS:HD2	1.74	0.70
1:D:710:PHE:O	1:D:711:SER:HB3	1.90	0.70
1:D:717:TYR:HD2	1:D:718:TYR:CE1	2.10	0.70
2:E:1715:VAL:HG13	2:E:1716:ASN:N	2.07	0.70
2:E:1720:HIS:C	2:E:1721:PHE:HD1	1.94	0.70
2:E:924:UNK:O	2:E:926:UNK:N	2.23	0.70
1:G:1002:LYS:O	1:G:1006:PRO:HD2	1.90	0.70
1:G:1055:TRP:CH2	1:G:1198:TYR:HD1	2.10	0.70
1:G:1427:THR:C	1:G:1429:ALA:H	1.95	0.70
2:H:1856:ALA:HA	2:H:1891:TYR:O	1.91	0.70
2:H:528:ILE:H	2:H:541:TYR:CB	2.04	0.70
1:A:1363:ALA:O	1:A:1364:GLU:O	2.10	0.70
2:B:1687:ALA:HB1	2:B:1787:ALA:HB1	1.73	0.70
1:D:1352:THR:O	1:D:1353:LEU:HB3	1.90	0.70
1:D:1423:LYS:C	1:D:1425:ILE:N	2.43	0.70
1:D:1554:SER:HB3	1:D:1623:TYR:OH	1.92	0.70
1:D:1573:ILE:HA	1:D:1622:GLU:OE2	1.92	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:915:GLU:O	1:D:918:GLN:HB3	1.91	0.70
2:E:96:LEU:N	2:E:96:LEU:HD23	2.07	0.70
1:G:1168:LEU:CD2	1:G:1169:LYS:H	2.05	0.70
1:G:1426:LEU:HD12	1:G:1427:THR:HG23	1.74	0.70
2:H:924:UNK:C	2:H:926:UNK:N	2.52	0.70
1:A:1150:ASP:HB3	1:A:1151:LYS:HD2	1.74	0.70
1:A:712:LYS:HG2	1:A:716:ASP:OD2	1.92	0.70
1:D:1168:LEU:HD13	1:D:1169:LYS:N	2.06	0.70
1:D:1425:ILE:O	1:D:1426:LEU:HD23	1.92	0.70
2:E:263:LEU:C	2:E:265:SER:N	2.42	0.70
2:E:375:LYS:HG3	2:E:376:ASN:H	1.57	0.70
1:G:1101:SER:C	1:G:1103:ILE:N	2.45	0.70
1:G:688:ILE:O	1:G:692:VAL:HG23	1.91	0.70
2:H:1878:VAL:HB	2:H:1898:TYR:HE1	1.56	0.70
1:A:1203:ASP:O	1:A:1206:SER:HB3	1.92	0.70
1:A:1378:GLU:HA	1:A:1583:HIS:CA	2.22	0.70
1:A:1603:GLY:C	1:A:1604:ILE:HD13	2.11	0.70
1:A:1636:VAL:HG13	1:A:1657:HIS:CG	2.27	0.70
1:A:999:LYS:HD2	1:A:1667:GLU:HG2	1.73	0.70
1:A:769:ILE:HG13	1:A:771:PHE:CE1	2.25	0.70
2:B:1877:ARG:HB3	2:B:1929:LYS:NZ	2.06	0.70
2:B:375:LYS:HG3	2:B:376:ASN:H	1.57	0.70
2:B:384:GLN:O	2:B:386:LEU:N	2.25	0.70
1:D:1101:SER:C	1:D:1103:ILE:N	2.45	0.70
1:D:1707:THR:O	1:D:1709:GLU:N	2.24	0.70
1:D:679:LEU:HD21	1:D:802:MET:HE1	1.73	0.70
2:E:1812:TYR:O	2:E:1816:ALA:HB3	1.91	0.70
1:G:1603:GLY:C	1:G:1604:ILE:HD13	2.12	0.70
2:H:446:ASN:O	2:H:448:VAL:N	2.25	0.70
2:H:529:VAL:O	2:H:542:GLY:HA2	1.92	0.70
2:H:18:HIS:CD2	2:H:86:LEU:HD22	2.27	0.70
2:B:455:ILE:CD1	2:B:469:ARG:HB2	2.20	0.69
2:B:49:ALA:HA	2:B:118:LYS:HZ2	1.57	0.69
1:D:1207:GLN:O	1:D:1209:ASP:N	2.21	0.69
1:D:1353:LEU:CA	1:D:1356:PHE:HB2	2.21	0.69
1:D:1398:VAL:HG22	1:D:1399:PRO:O	1.92	0.69
1:D:1583:HIS:CG	1:D:1584:PRO:HA	2.26	0.69
1:D:1238:VAL:CA	1:D:1720:ALA:HB1	2.22	0.69
1:D:488:UNK:O	1:D:489:UNK:O	2.10	0.69
2:E:1856:ALA:HA	2:E:1891:TYR:O	1.91	0.69
2:E:439:ILE:HD11	2:E:480:VAL:HG13	1.73	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1208:VAL:CA	1:G:1277:GLU:HG2	2.21	0.69
2:H:409:PHE:O	2:H:410:SER:HB2	1.91	0.69
2:H:159:ILE:HB	2:H:503:ASP:OD1	1.91	0.69
1:A:1067:LEU:HD13	1:A:1068:LYS:N	2.04	0.69
1:A:1352:THR:O	1:A:1353:LEU:HB3	1.90	0.69
1:A:1652:GLN:NE2	1:A:1653:ALA:O	2.24	0.69
1:A:717:TYR:C	1:A:719:GLN:H	1.92	0.69
2:B:1715:VAL:HG13	2:B:1716:ASN:N	2.07	0.69
1:D:1240:VAL:C	1:D:1242:GLU:H	1.92	0.69
1:D:1404:VAL:HA	1:D:1655:VAL:CG2	2.21	0.69
2:E:259:THR:CG2	2:E:288:SER:HA	2.22	0.69
2:H:1917:ILE:HG22	2:H:1918:LYS:H	1.56	0.69
1:A:1056:ILE:C	1:A:1058:GLY:H	1.95	0.69
1:A:1104:ARG:O	1:A:1105:LEU:HG	1.92	0.69
1:A:1259:GLY:HA2	1:A:1263:ASP:CB	2.21	0.69
1:A:1425:ILE:O	1:A:1426:LEU:HD23	1.93	0.69
2:B:1557:UNK:O	2:B:1559:UNK:N	2.25	0.69
2:B:895:UNK:O	2:B:899:UNK:N	2.25	0.69
1:D:1078:SER:OG	1:D:1085:ASP:HA	1.91	0.69
1:D:889:GLU:O	1:D:893:VAL:HG22	1.93	0.69
2:E:1723:GLY:HA3	2:E:1733:TYR:CE1	2.27	0.69
2:E:1796:GLY:O	2:E:1797:LEU:HD23	1.91	0.69
2:E:1884:TRP:H	2:E:1892:ASN:HB2	1.57	0.69
2:E:260:PRO:HG2	2:E:287:ASP:O	1.91	0.69
2:E:371:VAL:HG12	2:E:371:VAL:O	1.93	0.69
1:G:1067:LEU:HD22	1:G:1068:LYS:H	1.54	0.69
1:G:1318:THR:HG23	1:G:1323:LYS:HE2	1.74	0.69
1:G:1625:LEU:C	1:G:1625:LEU:HD22	2.12	0.69
1:G:674:LYS:HG2	1:G:675:ASP:OD2	1.92	0.69
2:H:1536:UNK:C	2:H:1538:UNK:N	2.55	0.69
2:H:1989:UNK:O	2:H:1991:UNK:N	2.25	0.69
1:A:1022:THR:OG1	1:A:1388:MET:HG3	1.92	0.69
1:A:1081:LYS:HD3	1:A:1081:LYS:N	2.07	0.69
1:A:1243:VAL:HG12	1:A:1324:ALA:CA	2.23	0.69
1:A:679:LEU:HD21	1:A:802:MET:HE1	1.73	0.69
1:A:775:PRO:O	1:A:776:GLU:HB2	1.91	0.69
2:B:1885:LEU:HD22	2:B:1891:TYR:HD2	1.57	0.69
1:D:1248:GLY:HA2	1:D:1330:GLY:CA	2.22	0.69
1:D:1706:TYR:N	1:D:1706:TYR:CD1	2.59	0.69
2:E:1687:ALA:CB	2:E:1787:ALA:HB1	2.21	0.69
2:E:1715:VAL:HG23	2:E:1770:LEU:HB2	1.73	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:263:LEU:C	2:E:265:SER:H	1.94	0.69
2:E:851:UNK:O	2:E:853:UNK:N	2.20	0.69
1:G:1062:TYR:CG	1:G:1063:HIS:N	2.60	0.69
1:G:1096:SER:C	1:G:1098:LEU:H	1.94	0.69
1:G:1342:GLU:H	1:G:1345:ASN:HB2	1.57	0.69
2:H:1020:UNK:C	2:H:1022:UNK:H	2.05	0.69
2:H:1742:VAL:HG22	2:H:1837:THR:HG23	1.71	0.69
2:H:1796:GLY:O	2:H:1797:LEU:HD23	1.92	0.69
2:H:1859:PRO:HD2	2:H:1889:VAL:HA	1.74	0.69
2:H:367:GLU:HG2	2:H:368:ILE:N	2.05	0.69
1:A:1232:TYR:HE1	1:A:1705:PRO:HD3	1.57	0.69
2:B:1197:UNK:O	2:B:1199:UNK:N	2.25	0.69
2:B:170:PHE:HD2	2:B:174:ARG:HH21	1.39	0.69
2:B:259:THR:HG21	2:B:288:SER:HA	1.72	0.69
1:D:1144:PHE:CG	1:D:1145:LYS:N	2.60	0.69
1:D:1208:VAL:O	1:D:1210:PRO:CD	2.36	0.69
1:D:1211:ILE:C	1:D:1213:LEU:N	2.41	0.69
1:D:1215:VAL:HG11	1:D:1283:MET:HG3	1.75	0.69
1:D:1469:ALA:O	1:D:1472:LEU:HB3	1.92	0.69
1:D:1014:ASP:HB2	1:D:1510:ASN:OD1	1.93	0.69
1:D:1625:LEU:C	1:D:1625:LEU:HD22	2.13	0.69
2:E:1557:UNK:O	2:E:1559:UNK:N	2.25	0.69
2:E:168:ASP:HB3	2:E:171:GLU:CB	2.19	0.69
2:E:2036:UNK:HA	2:E:2039:UNK:CB	2.22	0.69
2:E:259:THR:HG21	2:E:288:SER:HA	1.74	0.69
2:E:384:GLN:O	2:E:386:LEU:N	2.26	0.69
1:G:717:TYR:O	1:G:721:ILE:HG12	1.92	0.69
1:G:861:GLN:O	1:G:862:LEU:HD23	1.91	0.69
2:H:1557:UNK:O	2:H:1559:UNK:N	2.26	0.69
2:H:1687:ALA:CB	2:H:1787:ALA:HB1	2.23	0.69
2:H:471:LEU:HG	2:H:472:SER:N	2.04	0.69
1:A:1056:ILE:O	1:A:1058:GLY:N	2.24	0.69
1:A:1318:THR:HG23	1:A:1323:LYS:HE2	1.74	0.69
1:A:1378:GLU:CB	1:A:1585:LYS:HD2	2.22	0.69
1:A:1369:ALA:CA	1:A:1547:LYS:HD2	2.21	0.69
1:A:861:GLN:O	1:A:862:LEU:HD23	1.93	0.69
2:B:1536:UNK:C	2:B:1538:UNK:N	2.55	0.69
2:B:2036:UNK:HA	2:B:2039:UNK:CB	2.22	0.69
2:B:43:GLU:CB	2:B:44:PRO:HD3	2.16	0.69
2:B:928:UNK:C	2:B:930:UNK:N	2.53	0.69
1:D:1148:HIS:O	1:D:1150:ASP:N	2.25	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1519:ILE:HD11	1:D:1524:GLY:N	2.08	0.69
1:G:1078:SER:OG	1:G:1085:ASP:HA	1.92	0.69
1:G:1450:ARG:HH11	1:G:1450:ARG:HG3	1.57	0.69
1:G:1636:VAL:HG13	1:G:1657:HIS:CG	2.28	0.69
1:G:1714:VAL:HG11	1:G:1731:LEU:CD1	2.21	0.69
1:G:678:VAL:CG2	1:G:767:ALA:HB3	2.21	0.69
1:G:864:VAL:HG12	1:G:865:CYS:N	2.07	0.69
2:H:439:ILE:HA	2:H:442:ASP:HB2	1.75	0.69
2:H:65:LEU:O	2:H:69:SER:HB3	1.91	0.69
1:A:1029:PRO:O	1:A:1106:ILE:HG23	1.91	0.69
1:A:1450:ARG:HG3	1:A:1450:ARG:HH11	1.57	0.69
1:A:846:LEU:O	1:A:849:LEU:HB2	1.93	0.69
2:B:166:THR:HG23	2:B:168:ASP:OD2	1.93	0.69
2:B:1764:PHE:N	2:B:1764:PHE:CD2	2.59	0.69
1:D:1055:TRP:CH2	1:D:1198:TYR:HD1	2.10	0.69
1:D:1274:ILE:C	1:D:1276:GLN:N	2.44	0.69
1:D:899:LYS:O	1:D:901:MET:N	2.26	0.69
2:E:170:PHE:HD2	2:E:174:ARG:HH21	1.40	0.69
2:E:455:ILE:CD1	2:E:469:ARG:HB2	2.20	0.69
2:E:528:ILE:H	2:E:541:TYR:CB	2.05	0.69
1:G:1378:GLU:HA	1:G:1583:HIS:CA	2.23	0.69
1:G:803:MET:HE3	1:G:822:VAL:HG11	1.74	0.69
1:G:873:ARG:HG3	1:G:874:GLY:H	1.58	0.69
2:H:1874:VAL:O	2:H:1878:VAL:HG22	1.93	0.69
1:A:1076:VAL:CG1	1:A:1087:LYS:HA	2.21	0.69
1:A:1178:ALA:O	1:A:1179:LEU:HB3	1.92	0.69
1:A:674:LYS:HG2	1:A:675:ASP:OD2	1.91	0.69
1:A:803:MET:HE3	1:A:822:VAL:HG11	1.74	0.69
2:B:263:LEU:C	2:B:265:SER:H	1.95	0.69
2:B:421:LEU:HB3	2:B:422:PRO:HD2	1.75	0.69
1:D:1036:ARG:HD3	1:D:1037:TRP:H	1.58	0.69
2:E:1687:ALA:HB1	2:E:1787:ALA:HB1	1.74	0.69
1:G:1169:LYS:HZ2	1:G:1170:GLY:H	1.41	0.69
1:A:1152:VAL:O	1:A:1155:PHE:N	2.26	0.69
1:A:1215:VAL:HG11	1:A:1283:MET:HG3	1.75	0.69
1:A:385:UNK:O	1:A:388:UNK:CB	2.41	0.69
2:B:1867:SER:HA	2:B:1870:ALA:HB3	1.74	0.69
2:B:446:ASN:O	2:B:448:VAL:N	2.26	0.69
2:E:1715:VAL:HG21	2:E:1766:SER:OG	1.91	0.69
2:E:446:ASN:O	2:E:448:VAL:N	2.26	0.69
2:E:49:ALA:HA	2:E:118:LYS:HZ2	1.56	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:529:VAL:HG12	2:E:530:ALA:N	2.08	0.69
1:G:1142:GLU:O	1:G:1144:PHE:N	2.25	0.69
1:G:1202:ASP:HA	1:G:1205:ILE:CD1	2.23	0.69
1:G:1352:THR:O	1:G:1353:LEU:HB3	1.93	0.69
1:G:1411:THR:OG1	1:G:1412:ASP:N	2.23	0.69
1:G:1635:GLY:O	1:G:1636:VAL:C	2.30	0.69
1:G:846:LEU:O	1:G:849:LEU:HB2	1.92	0.69
2:H:1883:GLY:N	2:H:1894:GLU:HG2	2.08	0.69
2:H:421:LEU:HB3	2:H:422:PRO:HD2	1.75	0.69
1:A:1290:LEU:HA	1:A:1701:LYS:NZ	2.06	0.69
1:A:1248:GLY:HA2	1:A:1330:GLY:CA	2.22	0.69
1:A:1427:THR:C	1:A:1429:ALA:H	1.97	0.69
1:A:1544:THR:OG1	1:A:1546:THR:HG22	1.93	0.69
1:A:1373:ARG:HD3	1:A:1547:LYS:HB3	1.73	0.69
1:A:717:TYR:O	1:A:721:ILE:HG12	1.93	0.69
1:A:864:VAL:HG12	1:A:865:CYS:N	2.08	0.69
2:B:1715:VAL:HG23	2:B:1770:LEU:HB2	1.75	0.69
2:B:263:LEU:C	2:B:265:SER:N	2.43	0.69
1:D:1062:TYR:CD2	1:D:1693:ILE:HB	2.28	0.69
1:D:1133:PRO:HD2	1:D:1173:LEU:HD11	1.74	0.69
1:D:1215:VAL:HG12	1:D:1332:TYR:CD1	2.28	0.69
1:D:1378:GLU:HA	1:D:1583:HIS:CA	2.22	0.69
1:D:1369:ALA:CA	1:D:1547:LYS:HD2	2.23	0.69
1:D:1605:ILE:HG12	1:D:1606:PRO:HA	1.75	0.69
2:E:1663:UNK:O	3:F:17:UNK:HA	1.91	0.69
1:G:1029:PRO:O	1:G:1106:ILE:HG23	1.93	0.69
1:G:798:ASN:O	1:G:802:MET:N	2.22	0.69
1:G:889:GLU:O	1:G:893:VAL:HG22	1.92	0.69
2:H:1197:UNK:O	2:H:1199:UNK:N	2.26	0.69
2:H:260:PRO:HG2	2:H:287:ASP:O	1.93	0.69
2:H:41:LEU:H	2:H:42:PRO:HD2	1.58	0.69
1:A:1119:LYS:C	1:A:1121:MET:H	1.95	0.69
1:A:1119:LYS:HE3	1:A:1121:MET:CB	2.23	0.69
1:A:1240:VAL:HG13	1:A:1242:GLU:CB	2.23	0.69
1:A:705:VAL:HG11	1:A:718:TYR:HE2	1.58	0.69
2:B:104:LEU:HD12	2:B:107:LYS:HB2	1.75	0.69
2:B:367:GLU:HG2	2:B:368:ILE:N	2.07	0.69
2:B:371:VAL:O	2:B:371:VAL:HG12	1.92	0.69
1:D:1279:PHE:O	1:D:1282:THR:HB	1.93	0.69
1:D:1450:ARG:HG3	1:D:1450:ARG:HH11	1.57	0.69
2:E:1867:SER:HA	2:E:1870:ALA:HB3	1.74	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1014:ASP:HB2	1:G:1510:ASN:OD1	1.93	0.69
1:G:1089:VAL:O	1:G:1093:TYR:HB2	1.93	0.69
1:G:1254:VAL:HG13	1:G:1255:SER:H	1.57	0.69
1:G:1605:ILE:HG12	1:G:1606:PRO:HA	1.74	0.69
1:G:1657:HIS:ND1	1:G:1658:PRO:HD2	2.07	0.69
2:H:384:GLN:O	2:H:386:LEU:N	2.26	0.69
2:H:895:UNK:O	2:H:899:UNK:N	2.26	0.69
1:A:1109:GLU:O	1:A:1110:LEU:HB2	1.92	0.68
1:A:1115:ASN:ND2	1:A:1115:ASN:N	2.41	0.68
1:A:493:UNK:C	1:A:495:UNK:N	2.52	0.68
2:B:1355:UNK:O	2:B:1407:UNK:HA	1.93	0.68
2:B:1812:TYR:O	2:B:1816:ALA:HB3	1.93	0.68
2:B:1859:PRO:HD2	2:B:1889:VAL:HA	1.73	0.68
2:B:528:ILE:H	2:B:541:TYR:CB	2.05	0.68
2:B:959:UNK:C	2:B:961:UNK:N	2.55	0.68
1:D:1275:LEU:HD22	1:D:1275:LEU:O	1.93	0.68
1:D:1318:THR:HG23	1:D:1323:LYS:HE2	1.74	0.68
2:E:421:LEU:HB3	2:E:422:PRO:HD2	1.74	0.68
2:E:895:UNK:O	2:E:899:UNK:N	2.26	0.68
1:G:1240:VAL:HG13	1:G:1242:GLU:CB	2.23	0.68
1:G:1274:ILE:C	1:G:1276:GLN:N	2.45	0.68
1:G:1519:ILE:HD11	1:G:1524:GLY:N	2.08	0.68
1:G:418:UNK:O	1:G:421:UNK:N	2.26	0.68
1:G:652:UNK:C	1:G:654:UNK:N	2.54	0.68
1:G:999:LYS:HD2	1:G:1667:GLU:HG2	1.74	0.68
2:H:1731:GLU:C	2:H:1735:ALA:HB3	2.14	0.68
2:H:1806:GLY:HA3	2:H:1811:GLU:HA	1.74	0.68
2:H:1782:THR:OG1	2:H:1809:LEU:HD21	1.93	0.68
2:H:1812:TYR:O	2:H:1816:ALA:HB3	1.93	0.68
1:A:1368:PRO:HA	1:A:1545:SER:HA	1.75	0.68
1:A:858:TRP:CE3	1:A:862:LEU:HB2	2.28	0.68
2:B:1731:GLU:C	2:B:1735:ALA:HB3	2.13	0.68
1:D:1119:LYS:C	1:D:1121:MET:H	1.95	0.68
1:D:1110:LEU:CD1	1:D:1120:GLU:HG3	2.20	0.68
1:D:1152:VAL:O	1:D:1155:PHE:N	2.26	0.68
2:E:1678:MET:HE2	2:E:1678:MET:HA	1.76	0.68
2:E:65:LEU:O	2:E:69:SER:HB3	1.93	0.68
1:G:1133:PRO:HD2	1:G:1173:LEU:HD11	1.75	0.68
1:G:1279:PHE:O	1:G:1282:THR:HB	1.92	0.68
1:G:1376:PHE:O	1:G:1377:MET:HB3	1.93	0.68
1:G:1704:ALA:HB1	1:G:1705:PRO:CD	2.20	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1741:LYS:HE2	1:G:1741:LYS:HA	1.75	0.68
1:A:688:ILE:O	1:A:692:VAL:HG23	1.93	0.68
1:A:866:GLY:O	1:A:867:ALA:HB2	1.93	0.68
1:A:873:ARG:HG3	1:A:874:GLY:H	1.57	0.68
1:A:889:GLU:HA	1:A:893:VAL:HA	1.76	0.68
1:A:915:GLU:O	1:A:918:GLN:HB3	1.93	0.68
2:B:1724:GLU:HG2	2:B:1726:GLY:N	2.07	0.68
1:D:1085:ASP:O	1:D:1087:LYS:N	2.27	0.68
1:D:1427:THR:C	1:D:1429:ALA:H	1.96	0.68
1:D:418:UNK:O	1:D:421:UNK:N	2.26	0.68
1:D:504:UNK:CB	1:D:633:UNK:HA	2.24	0.68
1:G:1110:LEU:HG	1:G:1188:GLN:HA	1.74	0.68
1:G:1363:ALA:O	1:G:1364:GLU:O	2.11	0.68
1:G:1373:ARG:CG	1:G:1547:LYS:HB3	2.24	0.68
1:G:1583:HIS:CG	1:G:1585:LYS:H	2.10	0.68
1:G:1062:TYR:CD2	1:G:1693:ILE:HB	2.29	0.68
1:G:493:UNK:C	1:G:495:UNK:N	2.53	0.68
2:H:1812:TYR:N	2:H:1812:TYR:CD2	2.61	0.68
2:H:439:ILE:HD11	2:H:480:VAL:HG13	1.75	0.68
2:H:597:UNK:HA	2:H:600:UNK:CB	2.23	0.68
2:H:616:UNK:O	2:H:618:UNK:N	2.21	0.68
1:A:889:GLU:O	1:A:893:VAL:HG22	1.94	0.68
2:B:168:ASP:HB3	2:B:171:GLU:CB	2.19	0.68
2:B:1715:VAL:C	2:B:1718:THR:HG22	2.12	0.68
1:D:1111:PHE:O	1:D:1112:ASN:HB2	1.92	0.68
1:D:1461:ASP:O	1:D:1463:VAL:N	2.27	0.68
1:D:1546:THR:HG21	1:D:1549:ASN:HB3	1.74	0.68
2:E:1266:UNK:C	2:E:1268:UNK:N	2.56	0.68
2:E:1737:ILE:O	2:E:1738:PHE:HB3	1.91	0.68
2:E:1789:PHE:CE1	2:E:1798:ILE:HG13	2.29	0.68
2:E:372:ASN:O	2:E:376:ASN:HB2	1.92	0.68
1:G:1036:ARG:HD3	1:G:1037:TRP:H	1.57	0.68
1:G:1290:LEU:HA	1:G:1701:LYS:NZ	2.09	0.68
1:G:1706:TYR:N	1:G:1706:TYR:CD1	2.56	0.68
1:G:652:UNK:O	1:G:654:UNK:N	2.26	0.68
2:H:1687:ALA:HB1	2:H:1787:ALA:HB1	1.76	0.68
2:H:1884:TRP:H	2:H:1892:ASN:HB2	1.57	0.68
2:H:375:LYS:HG3	2:H:376:ASN:H	1.57	0.68
2:H:87:CYS:O	2:H:90:GLU:HB3	1.93	0.68
1:A:1254:VAL:HA	1:A:1257:LEU:HB2	1.74	0.68
1:A:1208:VAL:CA	1:A:1277:GLU:HG2	2.23	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1376:PHE:O	1:A:1377:MET:HB3	1.92	0.68
1:A:1657:HIS:ND1	1:A:1658:PRO:HD2	2.09	0.68
1:A:1738:ILE:O	1:A:1739:GLN:HB2	1.93	0.68
1:A:722:TYR:O	1:A:724:LYS:N	2.26	0.68
2:B:1192:UNK:O	2:B:1202:UNK:HA	1.93	0.68
2:B:483:ILE:HG22	2:B:484:ILE:H	1.58	0.68
2:B:529:VAL:HG12	2:B:530:ALA:N	2.08	0.68
1:D:1370:THR:N	1:D:1547:LYS:HD2	2.07	0.68
2:E:1673:GLU:H	2:E:1676:MET:HE1	1.59	0.68
2:E:324:LEU:O	2:E:328:LEU:HB2	1.94	0.68
2:E:43:GLU:CB	2:E:44:PRO:HD3	2.18	0.68
1:G:1208:VAL:O	1:G:1210:PRO:CD	2.36	0.68
2:H:1764:PHE:N	2:H:1764:PHE:CD2	2.61	0.68
2:H:371:VAL:O	2:H:371:VAL:HG12	1.94	0.68
1:A:418:UNK:O	1:A:421:UNK:N	2.26	0.68
2:B:1715:VAL:HG21	2:B:1766:SER:OG	1.93	0.68
2:B:1806:GLY:HA3	2:B:1811:GLU:HA	1.75	0.68
1:D:1609:ARG:HE	1:D:1610:ASN:N	1.92	0.68
1:D:380:UNK:O	1:D:381:UNK:C	2.42	0.68
1:G:1106:ILE:HA	1:G:1192:GLY:HA2	1.76	0.68
1:G:1353:LEU:CA	1:G:1356:PHE:HB2	2.22	0.68
1:G:1423:LYS:C	1:G:1425:ILE:N	2.44	0.68
2:H:67:TYR:C	2:H:69:SER:N	2.43	0.68
1:A:1169:LYS:HZ2	1:A:1170:GLY:H	1.41	0.68
1:A:1197:THR:HA	1:A:1200:ILE:HG22	1.75	0.68
1:A:1215:VAL:HG12	1:A:1332:TYR:CD1	2.29	0.68
1:A:1486:LEU:O	1:A:1490:THR:HB	1.94	0.68
2:B:1884:TRP:H	2:B:1892:ASN:HB2	1.59	0.68
2:B:246:LEU:O	2:B:250:VAL:HG23	1.94	0.68
2:B:439:ILE:HD11	2:B:480:VAL:HG13	1.74	0.68
2:B:677:UNK:O	2:B:679:UNK:N	2.26	0.68
2:B:882:UNK:O	2:B:883:UNK:C	2.42	0.68
1:D:1342:GLU:H	1:D:1345:ASN:HB2	1.57	0.68
1:D:1782:UNK:C	1:D:1784:UNK:H	2.07	0.68
1:G:1056:ILE:C	1:G:1058:GLY:H	1.96	0.68
1:G:1370:THR:N	1:G:1547:LYS:HD2	2.08	0.68
1:G:1376:PHE:HD1	1:G:1376:PHE:H	1.42	0.68
2:H:1867:SER:HA	2:H:1870:ALA:HB3	1.75	0.68
2:H:1885:LEU:HD22	2:H:1891:TYR:HD2	1.56	0.68
1:A:1062:TYR:CD2	1:A:1693:ILE:HB	2.28	0.68
1:A:1082:GLU:N	1:A:1083:PRO:CD	2.57	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1373:ARG:CG	1:A:1547:LYS:HB3	2.23	0.68
1:D:1062:TYR:CG	1:D:1063:HIS:N	2.62	0.68
1:D:1240:VAL:HG13	1:D:1242:GLU:CB	2.24	0.68
1:D:1208:VAL:CA	1:D:1277:GLU:HG2	2.22	0.68
1:D:1531:LEU:O	1:D:1532:THR:C	2.32	0.68
2:E:241:ILE:HG23	2:E:242:GLY:N	2.08	0.68
2:E:246:LEU:HD13	2:E:296:VAL:HG13	1.76	0.68
2:E:286:THR:CG2	2:E:292:PHE:HA	2.24	0.68
2:E:368:ILE:HD11	2:E:377:LEU:HD22	1.75	0.68
1:G:1013:LEU:C	1:G:1013:LEU:HD23	2.15	0.68
1:G:1589:GLY:HA2	1:G:1592:MET:CE	2.23	0.68
1:G:547:UNK:C	1:G:549:UNK:N	2.48	0.68
2:H:483:ILE:HG22	2:H:484:ILE:H	1.57	0.68
1:A:1274:ILE:C	1:A:1276:GLN:N	2.44	0.68
1:A:1583:HIS:CG	1:A:1584:PRO:HA	2.29	0.68
1:A:504:UNK:CB	1:A:633:UNK:HA	2.24	0.68
1:A:944:ARG:O	1:A:948:VAL:HG23	1.94	0.68
1:D:1081:LYS:N	1:D:1081:LYS:HD3	2.08	0.68
1:D:881:ASN:O	1:D:883:ILE:N	2.27	0.68
2:E:104:LEU:HD12	2:E:107:LYS:HB2	1.76	0.68
2:E:408:PRO:HB2	2:E:412:ARG:HD2	1.76	0.68
1:G:1193:TRP:O	1:G:1194:ASN:HB2	1.93	0.68
1:G:1486:LEU:O	1:G:1490:THR:HB	1.93	0.68
1:G:858:TRP:CE3	1:G:862:LEU:HB2	2.28	0.68
2:H:1605:UNK:O	2:H:1607:UNK:N	2.25	0.68
2:H:1779:PRO:O	2:H:1783:LEU:HB2	1.94	0.68
2:H:23:PRO:HA	2:H:26:SER:HB3	1.75	0.68
1:A:1461:ASP:O	1:A:1463:VAL:N	2.26	0.68
1:A:1536:LEU:HA	1:A:1638:ALA:HB3	1.76	0.68
1:A:412:UNK:O	1:A:414:UNK:N	2.27	0.68
1:A:694:GLN:HB3	1:A:725:TYR:CD2	2.29	0.68
1:D:1009:LEU:HD12	1:D:1009:LEU:H	1.58	0.68
1:D:1013:LEU:HD23	1:D:1013:LEU:C	2.14	0.68
1:D:1029:PRO:O	1:D:1106:ILE:HG23	1.94	0.68
1:D:1067:LEU:HD13	1:D:1068:LYS:N	2.05	0.68
1:D:1103:ILE:CA	1:D:1106:ILE:HD12	2.21	0.68
1:D:1106:ILE:HA	1:D:1192:GLY:HA2	1.74	0.68
1:D:1107:GLU:CD	1:D:1108:PRO:HD3	2.15	0.68
1:D:1520:ALA:H	1:D:1521:PRO:CD	2.06	0.68
2:E:170:PHE:HB3	2:E:231:LEU:HD21	1.74	0.68
2:E:1718:THR:HG23	2:E:1765:ARG:HA	1.76	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:466:SER:C	2:E:468:LEU:H	1.97	0.68
2:E:483:ILE:HG22	2:E:484:ILE:H	1.58	0.68
2:E:75:SER:C	2:E:77:VAL:H	1.98	0.68
2:E:87:CYS:O	2:E:90:GLU:HB3	1.94	0.68
2:E:882:UNK:O	2:E:883:UNK:C	2.41	0.68
1:G:1189:ILE:HG22	1:G:1190:PRO:N	2.08	0.68
1:G:1369:ALA:HA	1:G:1547:LYS:HG3	1.76	0.68
1:G:1531:LEU:O	1:G:1532:THR:C	2.32	0.68
1:G:889:GLU:HA	1:G:893:VAL:HA	1.76	0.68
1:G:915:GLU:O	1:G:918:GLN:HB3	1.94	0.68
2:H:517:HIS:CG	2:H:526:ARG:HE	2.12	0.68
2:H:882:UNK:O	2:H:883:UNK:C	2.41	0.68
1:A:907:GLY:C	1:A:909:LEU:N	2.47	0.67
2:B:65:LEU:O	2:B:69:SER:HB3	1.93	0.67
1:D:1042:PHE:N	1:D:1042:PHE:CD1	2.62	0.67
1:D:1482:GLN:O	1:D:1486:LEU:HB2	1.94	0.67
1:D:1583:HIS:CG	1:D:1585:LYS:H	2.12	0.67
1:D:1605:ILE:HG13	1:D:1628:SER:HB3	1.74	0.67
1:D:710:PHE:CE1	1:D:736:PRO:HD3	2.24	0.67
1:G:1119:LYS:C	1:G:1121:MET:H	1.96	0.67
1:G:1168:LEU:HD13	1:G:1169:LYS:N	2.09	0.67
1:G:1226:SER:HB3	1:G:1386:ILE:HD11	1.75	0.67
1:G:1351:ASN:ND2	1:G:1354:GLU:HB2	2.03	0.67
1:G:1419:PRO:HD3	1:G:1646:PHE:HD1	1.59	0.67
1:G:1461:ASP:O	1:G:1463:VAL:N	2.27	0.67
1:G:944:ARG:O	1:G:948:VAL:HG23	1.94	0.67
2:H:1724:GLU:HG2	2:H:1726:GLY:N	2.08	0.67
2:H:324:LEU:O	2:H:328:LEU:HB2	1.94	0.67
2:H:488:VAL:HG12	2:H:490:TRP:H	1.59	0.67
1:A:1085:ASP:O	1:A:1087:LYS:N	2.28	0.67
1:A:1394:LEU:HD23	1:A:1673:TYR:CE1	2.30	0.67
1:A:1531:LEU:O	1:A:1532:THR:C	2.32	0.67
1:A:1426:LEU:HD22	1:A:1650:GLY:HA3	1.76	0.67
1:A:1782:UNK:C	1:A:1784:UNK:H	2.08	0.67
1:A:869:ILE:HG21	1:A:901:MET:SD	2.33	0.67
2:B:85:ASN:ND2	2:B:134:LYS:HB2	2.09	0.67
2:B:170:PHE:HB3	2:B:231:LEU:HD21	1.76	0.67
2:B:368:ILE:HD11	2:B:377:LEU:HD22	1.75	0.67
1:D:1021:VAL:HA	1:D:1387:ILE:HG22	1.77	0.67
1:D:1423:LYS:C	1:D:1425:ILE:H	1.97	0.67
1:D:652:UNK:C	1:D:654:UNK:N	2.55	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:803:MET:HB3	1:D:862:LEU:CD1	2.25	0.67
2:E:1584:UNK:C	2:E:1586:UNK:N	2.53	0.67
1:G:1368:PRO:HA	1:G:1545:SER:HA	1.76	0.67
1:G:1469:ALA:O	1:G:1472:LEU:HB3	1.94	0.67
1:G:710:PHE:CE1	1:G:736:PRO:HD3	2.26	0.67
1:G:679:LEU:HD21	1:G:802:MET:HE1	1.76	0.67
1:G:905:LEU:CD2	1:G:905:LEU:H	2.06	0.67
2:H:1789:PHE:CE1	2:H:1798:ILE:HG13	2.30	0.67
2:H:466:SER:O	2:H:468:LEU:N	2.27	0.67
2:H:924:UNK:O	2:H:926:UNK:N	2.27	0.67
2:H:959:UNK:C	2:H:961:UNK:N	2.57	0.67
1:A:1389:GLN:HB3	1:A:1392:LEU:CD2	2.24	0.67
1:A:488:UNK:O	1:A:489:UNK:O	2.11	0.67
1:D:1540:SER:HA	1:D:1575:VAL:CB	2.17	0.67
1:D:994:GLU:N	1:D:994:GLU:OE1	2.27	0.67
2:E:1326:UNK:C	2:E:1328:UNK:H	2.06	0.67
2:E:1703:GLY:O	2:E:1704:PHE:HB3	1.95	0.67
2:E:1764:PHE:CD2	2:E:1764:PHE:N	2.59	0.67
2:E:1845:ASP:OD1	2:E:1847:LEU:HB3	1.95	0.67
2:E:189:LYS:O	2:E:192:ALA:HB3	1.94	0.67
2:E:466:SER:O	2:E:468:LEU:N	2.28	0.67
1:G:1079:LYS:HD2	1:G:1098:LEU:HD22	1.76	0.67
1:G:1240:VAL:HG22	1:G:1240:VAL:O	1.95	0.67
1:G:881:ASN:O	1:G:883:ILE:N	2.27	0.67
2:H:1678:MET:HE2	2:H:1678:MET:HA	1.75	0.67
2:H:263:LEU:C	2:H:265:SER:H	1.95	0.67
2:H:368:ILE:HD11	2:H:377:LEU:HD22	1.75	0.67
2:H:43:GLU:CB	2:H:44:PRO:HD3	2.17	0.67
2:H:466:SER:C	2:H:468:LEU:H	1.97	0.67
1:A:1067:LEU:CD2	1:A:1068:LYS:H	2.05	0.67
1:A:1139:GLU:O	1:A:1165:VAL:HG21	1.94	0.67
1:A:1469:ALA:O	1:A:1472:LEU:HB3	1.95	0.67
2:B:1386:UNK:HA	2:B:1413:UNK:HA	1.76	0.67
2:B:924:UNK:C	2:B:926:UNK:N	2.49	0.67
1:D:712:LYS:HG2	1:D:716:ASP:OD2	1.93	0.67
1:D:869:ILE:HG21	1:D:901:MET:SD	2.34	0.67
2:E:928:UNK:C	2:E:930:UNK:N	2.55	0.67
1:G:1299:LYS:CE	1:G:1323:LYS:HZ1	2.08	0.67
1:G:1389:GLN:HB3	1:G:1392:LEU:CD2	2.23	0.67
2:H:1009:UNK:C	2:H:1011:UNK:H	2.08	0.67
2:H:259:THR:CG2	2:H:288:SER:HA	2.23	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:189:LYS:O	2:B:192:ALA:HB3	1.93	0.67
2:B:1989:UNK:O	2:B:1991:UNK:N	2.27	0.67
2:B:324:LEU:O	2:B:328:LEU:HB2	1.94	0.67
2:B:517:HIS:CG	2:B:526:ARG:HE	2.12	0.67
1:D:1216:LEU:O	1:D:1219:VAL:HG12	1.95	0.67
1:D:1254:VAL:HG13	1:D:1255:SER:H	1.58	0.67
1:D:1290:LEU:HA	1:D:1701:LYS:NZ	2.08	0.67
1:D:1486:LEU:O	1:D:1490:THR:HB	1.95	0.67
1:D:1536:LEU:HA	1:D:1638:ALA:HB3	1.76	0.67
1:D:1704:ALA:HB1	1:D:1705:PRO:CD	2.24	0.67
2:E:597:UNK:HA	2:E:600:UNK:CB	2.25	0.67
1:G:1111:PHE:O	1:G:1112:ASN:HB2	1.94	0.67
1:G:1406:MET:HB3	1:G:1654:ILE:H	1.58	0.67
2:H:813:UNK:O	2:H:815:UNK:N	2.28	0.67
1:A:1063:HIS:CD2	1:A:1065:GLY:HA2	2.29	0.67
1:A:1605:ILE:HG13	1:A:1628:SER:HB3	1.75	0.67
1:A:1741:LYS:HA	1:A:1741:LYS:HE2	1.77	0.67
2:B:1266:UNK:O	2:B:1268:UNK:N	2.26	0.67
2:B:1584:UNK:C	2:B:1586:UNK:N	2.53	0.67
2:B:1884:TRP:O	2:B:1892:ASN:HB2	1.95	0.67
2:B:670:UNK:HA	2:B:694:UNK:CB	2.25	0.67
1:D:1109:GLU:O	1:D:1110:LEU:HB2	1.95	0.67
1:D:145:UNK:CB	1:D:260:UNK:HA	2.24	0.67
1:D:873:ARG:HG3	1:D:874:GLY:H	1.58	0.67
2:E:1884:TRP:O	2:E:1892:ASN:HB2	1.95	0.67
1:G:1076:VAL:CG1	1:G:1087:LYS:HA	2.23	0.67
1:G:1085:ASP:O	1:G:1087:LYS:N	2.27	0.67
1:G:1403:ILE:CG2	1:G:1656:VAL:HG13	2.19	0.67
1:G:1426:LEU:HD22	1:G:1650:GLY:HA3	1.76	0.67
2:H:1874:VAL:HG22	2:H:1928:GLN:HE22	1.58	0.67
2:H:345:THR:HG22	2:H:346:GLN:O	1.95	0.67
2:H:338:MET:HG3	2:H:380:SER:HB2	1.77	0.67
1:A:1055:TRP:CH2	1:A:1198:TYR:HD1	2.13	0.67
1:A:747:ALA:HA	1:A:750:GLU:HB3	1.77	0.67
2:B:1020:UNK:C	2:B:1022:UNK:H	2.06	0.67
2:B:1320:UNK:C	2:B:1322:UNK:H	2.08	0.67
2:B:1883:GLY:N	2:B:1894:GLU:HG2	2.09	0.67
2:B:471:LEU:HG	2:B:472:SER:N	2.06	0.67
1:D:1618:LEU:HD13	1:D:1623:TYR:CE2	2.30	0.67
1:D:1657:HIS:ND1	1:D:1658:PRO:HD2	2.10	0.67
1:D:858:TRP:CE3	1:D:862:LEU:HB2	2.29	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:409:PHE:O	2:E:410:SER:HB2	1.93	0.67
2:E:677:UNK:O	2:E:679:UNK:N	2.27	0.67
1:G:1082:GLU:N	1:G:1083:PRO:CD	2.58	0.67
1:G:1089:VAL:O	1:G:1091:ALA:N	2.28	0.67
1:G:1099:GLU:O	1:G:1102:GLY:N	2.21	0.67
1:G:1148:HIS:C	1:G:1150:ASP:H	1.98	0.67
1:G:1580:LEU:O	1:G:1580:LEU:CG	2.43	0.67
2:H:1320:UNK:C	2:H:1322:UNK:H	2.07	0.67
2:H:75:SER:C	2:H:77:VAL:H	1.98	0.67
1:A:1129:GLU:O	1:A:1175:ILE:O	2.13	0.67
1:A:1406:MET:HB3	1:A:1654:ILE:H	1.58	0.67
1:A:1706:TYR:HE2	1:A:1715:TYR:CZ	2.13	0.67
1:A:803:MET:HB3	1:A:862:LEU:CD1	2.24	0.67
2:B:41:LEU:H	2:B:42:PRO:HD2	1.58	0.67
1:D:1076:VAL:CG1	1:D:1087:LYS:HA	2.23	0.67
1:D:1119:LYS:HG3	1:D:1122:ILE:H	1.59	0.67
1:D:1376:PHE:O	1:D:1377:MET:HB3	1.95	0.67
1:D:864:VAL:HG12	1:D:865:CYS:N	2.09	0.67
2:E:246:LEU:O	2:E:250:VAL:HG23	1.95	0.67
2:E:488:VAL:HG12	2:E:490:TRP:H	1.60	0.67
1:G:1259:GLY:HA2	1:G:1263:ASP:CB	2.19	0.67
1:G:1425:ILE:O	1:G:1426:LEU:HD23	1.95	0.67
1:G:803:MET:HB3	1:G:862:LEU:CD1	2.25	0.67
2:H:1670:GLY:HA2	2:H:1672:GLN:HE22	1.59	0.67
2:H:1884:TRP:O	2:H:1892:ASN:HB2	1.95	0.67
2:H:43:GLU:HB2	2:H:44:PRO:CD	2.17	0.67
1:A:1342:GLU:H	1:A:1345:ASN:HB2	1.59	0.67
1:A:1021:VAL:HA	1:A:1387:ILE:HG22	1.76	0.67
2:B:409:PHE:O	2:B:410:SER:HB2	1.93	0.67
2:B:466:SER:C	2:B:468:LEU:H	1.98	0.67
2:B:567:UNK:HA	2:B:572:UNK:O	1.95	0.67
1:D:1056:ILE:C	1:D:1058:GLY:H	1.96	0.67
1:D:1202:ASP:HA	1:D:1205:ILE:CD1	2.25	0.67
1:D:1501:LEU:O	1:D:1504:ALA:HB3	1.95	0.67
2:E:1692:ASN:O	2:E:1696:ASN:HB2	1.95	0.67
1:G:1119:LYS:HE3	1:G:1121:MET:CB	2.24	0.67
1:G:1165:VAL:HG23	1:G:1166:LYS:H	1.59	0.67
1:G:1178:ALA:C	1:G:1179:LEU:HD22	2.15	0.67
1:G:488:UNK:O	1:G:489:UNK:O	2.12	0.67
1:G:797:THR:O	1:G:800:LEU:HB2	1.95	0.67
2:H:298:LYS:O	2:H:302:VAL:HG23	1.94	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:408:PRO:HB2	2:H:412:ARG:HD2	1.76	0.67
1:A:1148:HIS:C	1:A:1150:ASP:H	1.99	0.67
1:A:1332:TYR:H	1:A:1587:ALA:CB	2.04	0.67
1:A:1586:GLY:O	1:A:1588:ALA:N	2.28	0.67
1:A:717:TYR:HD2	1:A:718:TYR:CE1	2.13	0.67
2:B:1692:ASN:O	2:B:1696:ASN:HB2	1.95	0.67
2:B:1733:TYR:HE1	2:B:1760:THR:HG23	1.60	0.67
2:B:851:UNK:O	2:B:853:UNK:N	2.23	0.67
1:D:1577:GLN:HE22	1:D:1591:TRP:C	1.98	0.67
1:D:864:VAL:HG12	1:D:865:CYS:H	1.60	0.67
2:E:439:ILE:HA	2:E:442:ASP:HB2	1.76	0.67
1:G:1039:MET:HA	1:G:1039:MET:HE3	1.77	0.67
1:G:1207:GLN:O	1:G:1209:ASP:N	2.22	0.67
1:G:1037:TRP:CD2	1:G:1598:GLN:HG2	2.30	0.67
1:G:1605:ILE:HG13	1:G:1628:SER:HB3	1.77	0.67
1:G:705:VAL:HG11	1:G:718:TYR:HE2	1.60	0.67
2:H:1845:ASP:OD1	2:H:1847:LEU:HB3	1.94	0.67
1:A:1009:LEU:H	1:A:1009:LEU:HD12	1.60	0.66
1:A:1062:TYR:CG	1:A:1063:HIS:N	2.62	0.66
1:A:1264:ARG:C	1:A:1266:LYS:N	2.47	0.66
1:A:1369:ALA:O	1:A:1370:THR:HG23	1.95	0.66
1:A:1640:SER:HB2	1:A:1654:ILE:HB	1.77	0.66
1:A:1673:TYR:O	1:A:1675:ALA:N	2.28	0.66
2:B:1845:ASP:OD1	2:B:1847:LEU:HB3	1.95	0.66
2:B:1874:VAL:O	2:B:1878:VAL:HG22	1.95	0.66
2:B:18:HIS:CD2	2:B:86:LEU:HD22	2.30	0.66
2:B:390:ASN:HA	2:B:393:LEU:HD23	1.77	0.66
1:D:1406:MET:HB3	1:D:1654:ILE:H	1.58	0.66
1:D:1529:TYR:O	1:D:1530:GLY:C	2.33	0.66
1:D:1578:LYS:HE3	1:D:1584:PRO:HB3	1.77	0.66
1:D:866:GLY:O	1:D:867:ALA:HB2	1.94	0.66
2:E:1009:UNK:C	2:E:1011:UNK:H	2.08	0.66
2:E:1266:UNK:O	2:E:1268:UNK:N	2.28	0.66
2:E:1772:SER:HA	2:E:1777:THR:OG1	1.95	0.66
2:E:390:ASN:HA	2:E:393:LEU:HD23	1.77	0.66
2:E:881:UNK:O	2:E:883:UNK:N	2.28	0.66
1:G:1369:ALA:O	1:G:1370:THR:HG23	1.96	0.66
1:G:1706:TYR:HE2	1:G:1715:TYR:CZ	2.14	0.66
1:G:717:TYR:HD2	1:G:718:TYR:CE1	2.13	0.66
2:H:104:LEU:HD12	2:H:107:LYS:HB2	1.75	0.66
2:H:1192:UNK:O	2:H:1202:UNK:HA	1.94	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:18:HIS:O	2:H:22:VAL:HG23	1.95	0.66
2:H:366:VAL:CG2	2:H:381:GLY:HA3	2.23	0.66
1:A:1079:LYS:HD2	1:A:1098:LEU:HD22	1.77	0.66
1:A:1203:ASP:N	1:A:1205:ILE:HG12	2.08	0.66
1:A:1254:VAL:HG13	1:A:1255:SER:H	1.59	0.66
1:A:1373:ARG:HG2	1:A:1547:LYS:CD	2.08	0.66
2:B:1266:UNK:C	2:B:1268:UNK:N	2.55	0.66
2:B:246:LEU:HD13	2:B:296:VAL:HG13	1.75	0.66
2:B:345:THR:HG22	2:B:346:GLN:O	1.94	0.66
2:B:528:ILE:HG23	2:B:529:VAL:N	2.08	0.66
1:D:1168:LEU:CD2	1:D:1169:LYS:H	2.06	0.66
1:D:1328:ILE:O	1:D:1329:VAL:HG12	1.94	0.66
1:D:1426:LEU:HD22	1:D:1650:GLY:HA3	1.74	0.66
2:E:1192:UNK:O	2:E:1202:UNK:HA	1.94	0.66
2:E:1299:UNK:C	2:E:1301:UNK:N	2.56	0.66
2:E:1355:UNK:O	2:E:1407:UNK:HA	1.95	0.66
2:E:1883:GLY:N	2:E:1894:GLU:HG2	2.10	0.66
2:E:1903:ASP:CG	2:E:1907:LEU:HD21	2.15	0.66
2:E:345:THR:HG22	2:E:346:GLN:O	1.95	0.66
2:E:41:LEU:H	2:E:42:PRO:HD2	1.59	0.66
2:E:670:UNK:HA	2:E:694:UNK:CB	2.25	0.66
2:E:18:HIS:CD2	2:E:86:LEU:HD22	2.30	0.66
1:G:1107:GLU:CD	1:G:1108:PRO:HD3	2.15	0.66
1:G:1215:VAL:HG12	1:G:1332:TYR:CD1	2.29	0.66
1:G:1249:SER:HB3	1:G:1301:PRO:HD2	1.77	0.66
1:A:1279:PHE:O	1:A:1282:THR:HB	1.95	0.66
1:A:1501:LEU:HD22	1:A:1505:GLN:NE2	2.08	0.66
1:A:145:UNK:CB	1:A:260:UNK:HA	2.25	0.66
1:A:850:PHE:CD2	1:A:864:VAL:HG11	2.30	0.66
2:B:1678:MET:HA	2:B:1678:MET:HE2	1.77	0.66
2:B:1779:PRO:O	2:B:1783:LEU:HB2	1.95	0.66
2:B:1869:GLU:O	2:B:1873:TYR:HB2	1.96	0.66
2:B:408:PRO:HB2	2:B:412:ARG:HD2	1.76	0.66
1:D:1343:PHE:O	1:D:1345:ASN:N	2.29	0.66
1:D:853:TRP:CZ2	1:D:859:ALA:HB1	2.31	0.66
2:E:1984:UNK:C	2:E:1986:UNK:N	2.54	0.66
2:E:23:PRO:HA	2:E:26:SER:CB	2.26	0.66
1:G:1063:HIS:CD2	1:G:1065:GLY:HA2	2.30	0.66
1:G:1129:GLU:O	1:G:1175:ILE:O	2.14	0.66
1:G:719:GLN:HG3	1:G:720:SER:N	2.10	0.66
2:H:1386:UNK:HA	2:H:1413:UNK:HA	1.77	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:670:UNK:HA	2:H:694:UNK:CB	2.25	0.66
1:A:1162:GLU:OE1	1:A:1163:TYR:HE1	1.79	0.66
1:A:1202:ASP:HA	1:A:1205:ILE:CD1	2.24	0.66
1:A:1224:ILE:O	1:A:1224:ILE:HG13	1.94	0.66
2:B:1009:UNK:C	2:B:1011:UNK:H	2.09	0.66
2:B:439:ILE:HA	2:B:442:ASP:HB2	1.76	0.66
1:D:1189:ILE:HG22	1:D:1190:PRO:N	2.09	0.66
1:D:747:ALA:HA	1:D:750:GLU:HB3	1.78	0.66
2:E:616:UNK:O	2:E:618:UNK:N	2.22	0.66
1:G:1056:ILE:O	1:G:1058:GLY:N	2.28	0.66
1:G:1520:ALA:N	1:G:1521:PRO:CD	2.58	0.66
2:H:529:VAL:HG12	2:H:530:ALA:N	2.10	0.66
1:A:1311:SER:O	1:A:1312:VAL:C	2.34	0.66
1:A:1369:ALA:HA	1:A:1547:LYS:HG3	1.77	0.66
1:D:1188:GLN:HG2	1:D:1352:THR:CG2	2.25	0.66
1:D:1248:GLY:HA2	1:D:1330:GLY:HA2	1.77	0.66
2:E:1020:UNK:C	2:E:1022:UNK:H	2.08	0.66
2:E:1390:UNK:HA	2:E:1408:UNK:CA	2.25	0.66
2:E:18:HIS:O	2:E:22:VAL:HG23	1.96	0.66
2:E:536:ASN:O	2:E:538:ASP:N	2.29	0.66
1:G:1259:GLY:CA	1:G:1263:ASP:HB2	2.23	0.66
1:G:1212:THR:HG23	1:G:1283:MET:SD	2.34	0.66
1:A:1244:GLY:HA3	1:A:1294:SER:OG	1.96	0.66
1:A:1394:LEU:HA	1:A:1673:TYR:CD1	2.31	0.66
1:A:435:UNK:O	1:A:436:UNK:O	2.12	0.66
2:B:1326:UNK:C	2:B:1328:UNK:H	2.06	0.66
2:B:1390:UNK:HA	2:B:1408:UNK:CA	2.25	0.66
2:B:1703:GLY:O	2:B:1704:PHE:HB3	1.95	0.66
2:B:1984:UNK:C	2:B:1986:UNK:N	2.54	0.66
2:B:75:SER:C	2:B:77:VAL:H	1.98	0.66
1:D:769:ILE:HG13	1:D:771:PHE:CE1	2.30	0.66
2:E:528:ILE:HG23	2:E:529:VAL:N	2.10	0.66
1:G:1215:VAL:HG11	1:G:1283:MET:HG3	1.77	0.66
1:G:1216:LEU:O	1:G:1219:VAL:HG12	1.96	0.66
1:G:1394:LEU:HD23	1:G:1673:TYR:CE1	2.31	0.66
2:H:1703:GLY:O	2:H:1704:PHE:HB3	1.96	0.66
2:H:302:VAL:HG12	2:H:306:ILE:HD11	1.78	0.66
2:H:677:UNK:O	2:H:679:UNK:N	2.28	0.66
1:A:1042:PHE:CD1	1:A:1042:PHE:N	2.62	0.66
1:A:1577:GLN:HE22	1:A:1591:TRP:C	1.98	0.66
1:A:652:UNK:C	1:A:654:UNK:N	2.56	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:679:LEU:HD13	1:A:679:LEU:O	1.94	0.66
2:B:1792:LEU:HA	2:B:1797:LEU:HD12	1.77	0.66
1:D:1129:GLU:O	1:D:1175:ILE:O	2.13	0.66
1:D:1197:THR:HA	1:D:1200:ILE:HG22	1.77	0.66
1:D:1271:GLN:O	1:D:1274:ILE:HB	1.96	0.66
1:D:1738:ILE:O	1:D:1739:GLN:HB2	1.95	0.66
1:D:652:UNK:O	1:D:654:UNK:N	2.29	0.66
2:E:517:HIS:CG	2:E:526:ARG:HE	2.13	0.66
1:G:1268:GLU:HB3	1:G:1269:PRO:CD	2.25	0.66
1:G:764:ASP:OD1	1:G:810:LYS:NZ	2.27	0.66
2:H:286:THR:CG2	2:H:292:PHE:HA	2.25	0.66
1:A:1423:LYS:C	1:A:1425:ILE:N	2.46	0.66
1:A:1455:ARG:HA	1:A:1459:ILE:HG23	1.78	0.66
1:A:1478:PRO:CB	1:A:1481:ASP:HB2	2.25	0.66
1:A:1030:TRP:CZ2	1:A:1580:LEU:HD11	2.30	0.66
1:A:398:UNK:C	1:A:400:UNK:N	2.58	0.66
1:A:764:ASP:OD1	1:A:810:LYS:NZ	2.28	0.66
1:A:905:LEU:CD2	1:A:905:LEU:H	2.09	0.66
2:B:221:ASN:N	2:B:221:ASN:ND2	2.44	0.66
2:B:390:ASN:CA	2:B:393:LEU:HB3	2.26	0.66
1:D:1165:VAL:HG23	1:D:1166:LYS:H	1.61	0.66
1:D:1369:ALA:HA	1:D:1547:LYS:HG3	1.77	0.66
1:G:1299:LYS:NZ	1:G:1323:LYS:HZ1	1.93	0.66
1:G:864:VAL:HG12	1:G:865:CYS:H	1.61	0.66
2:H:1173:UNK:HA	2:H:1182:UNK:CA	2.26	0.66
2:H:1871:LEU:HD23	2:H:1872:GLN:N	2.11	0.66
2:H:851:UNK:C	2:H:853:UNK:H	2.09	0.66
1:A:1328:ILE:O	1:A:1329:VAL:HG12	1.95	0.66
1:A:1378:GLU:HB2	1:A:1585:LYS:HD2	1.77	0.66
1:A:739:GLN:HB3	1:A:794:ILE:CG1	2.25	0.66
2:B:1718:THR:HG23	2:B:1765:ARG:HA	1.76	0.66
1:D:1226:SER:HB3	1:D:1386:ILE:HD11	1.78	0.66
1:D:764:ASP:OD1	1:D:810:LYS:NZ	2.28	0.66
2:E:1347:UNK:C	2:E:1349:UNK:N	2.59	0.66
2:E:1869:GLU:O	2:E:1873:TYR:HB2	1.96	0.66
1:G:145:UNK:CB	1:G:260:UNK:HA	2.25	0.66
1:G:1403:ILE:C	1:G:1655:VAL:HG22	2.16	0.66
1:G:839:TYR:HE1	1:G:843:LYS:HE2	1.60	0.66
2:H:1584:UNK:C	2:H:1586:UNK:N	2.54	0.66
2:H:1591:UNK:O	2:H:1593:UNK:N	2.28	0.66
2:H:166:THR:HG23	2:H:168:ASP:OD2	1.96	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:23:PRO:HA	2:H:26:SER:CB	2.26	0.66
2:H:418:ASN:HD22	2:H:418:ASN:N	1.93	0.66
2:H:744:UNK:C	2:H:746:UNK:N	2.57	0.66
1:A:1079:LYS:HG2	1:A:1080:THR:OG1	1.95	0.66
1:A:1019:ILE:HD11	1:A:1319:ILE:HG21	1.78	0.66
1:A:1586:GLY:C	1:A:1588:ALA:N	2.48	0.66
1:A:1618:LEU:HD13	1:A:1623:TYR:CE2	2.30	0.66
1:A:799:ILE:O	1:A:802:MET:HB2	1.96	0.66
2:B:488:VAL:HG12	2:B:490:TRP:H	1.61	0.66
1:D:1063:HIS:CD2	1:D:1065:GLY:HA2	2.30	0.66
1:D:1169:LYS:HZ2	1:D:1170:GLY:H	1.44	0.66
1:D:1254:VAL:HA	1:D:1257:LEU:HB2	1.75	0.66
1:D:748:LEU:O	1:D:752:ILE:HG13	1.94	0.66
2:E:1776:PHE:C	2:E:1779:PRO:HD2	2.16	0.66
2:E:274:SER:O	2:E:483:ILE:HD11	1.96	0.66
1:G:1079:LYS:HG2	1:G:1080:THR:OG1	1.96	0.66
1:G:681:THR:OG1	1:G:770:PRO:HA	1.95	0.66
2:H:1390:UNK:HA	2:H:1408:UNK:CA	2.25	0.66
2:H:1903:ASP:CG	2:H:1907:LEU:HD21	2.16	0.66
2:H:1984:UNK:C	2:H:1986:UNK:N	2.53	0.66
1:A:1012:LEU:O	1:A:1013:LEU:HB3	1.95	0.65
1:A:1529:TYR:O	1:A:1530:GLY:C	2.34	0.65
1:A:380:UNK:O	1:A:381:UNK:C	2.44	0.65
2:B:23:PRO:HA	2:B:26:SER:CB	2.25	0.65
2:B:490:TRP:CZ3	2:B:512:LEU:HD13	2.31	0.65
1:D:1019:ILE:HD11	1:D:1319:ILE:HG21	1.77	0.65
1:D:1268:GLU:HB3	1:D:1269:PRO:CD	2.27	0.65
1:D:1369:ALA:O	1:D:1370:THR:HG23	1.96	0.65
1:D:681:THR:OG1	1:D:770:PRO:HA	1.96	0.65
1:D:889:GLU:HA	1:D:893:VAL:HA	1.76	0.65
2:E:813:UNK:O	2:E:815:UNK:N	2.29	0.65
1:G:1009:LEU:HD12	1:G:1009:LEU:H	1.60	0.65
1:G:1042:PHE:CD1	1:G:1042:PHE:N	2.63	0.65
1:G:1423:LYS:C	1:G:1425:ILE:H	1.98	0.65
1:G:1546:THR:HG21	1:G:1549:ASN:HB3	1.78	0.65
2:H:1732:ASN:O	2:H:1737:ILE:HG22	1.96	0.65
2:H:341:ILE:O	2:H:341:ILE:HG22	1.97	0.65
2:H:490:TRP:CZ3	2:H:512:LEU:HD13	2.31	0.65
1:A:1168:LEU:HD13	1:A:1169:LYS:N	2.10	0.65
1:A:1193:TRP:O	1:A:1194:ASN:HB2	1.94	0.65
1:A:748:LEU:O	1:A:752:ILE:HG13	1.96	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:238:CYS:HA	2:B:275:GLN:HE22	1.61	0.65
2:B:881:UNK:O	2:B:883:UNK:N	2.29	0.65
1:D:1012:LEU:O	1:D:1013:LEU:HB3	1.96	0.65
1:D:1082:GLU:N	1:D:1083:PRO:CD	2.58	0.65
1:D:1178:ALA:C	1:D:1179:LEU:HD22	2.16	0.65
1:D:1471:LYS:HD3	1:D:1474:ALA:HB2	1.78	0.65
1:D:1580:LEU:O	1:D:1580:LEU:CG	2.44	0.65
1:D:1589:GLY:HA2	1:D:1592:MET:CE	2.26	0.65
1:D:705:VAL:HG11	1:D:718:TYR:HE2	1.60	0.65
1:D:925:ASP:O	1:D:926:LEU:HD23	1.95	0.65
2:E:1779:PRO:O	2:E:1783:LEU:HB2	1.96	0.65
1:G:1144:PHE:CG	1:G:1145:LYS:N	2.63	0.65
1:G:552:UNK:O	1:G:554:UNK:N	2.20	0.65
2:H:85:ASN:ND2	2:H:134:LYS:HB2	2.11	0.65
1:A:1013:LEU:HD23	1:A:1013:LEU:C	2.16	0.65
1:A:1403:ILE:C	1:A:1655:VAL:HG22	2.17	0.65
1:A:679:LEU:HD12	1:A:679:LEU:H	1.61	0.65
1:A:899:LYS:O	1:A:901:MET:N	2.29	0.65
2:B:1173:UNK:HA	2:B:1182:UNK:CA	2.26	0.65
2:B:444:VAL:HA	2:B:449:SER:OG	1.97	0.65
2:B:59:GLU:OE1	2:B:122:LEU:HA	1.97	0.65
1:D:1095:THR:O	1:D:1096:SER:HB2	1.97	0.65
1:D:1150:ASP:HB3	1:D:1151:LYS:HD2	1.78	0.65
1:D:1207:GLN:O	1:D:1208:VAL:HG22	1.95	0.65
1:D:1455:ARG:HA	1:D:1459:ILE:HG23	1.78	0.65
1:D:1478:PRO:CB	1:D:1481:ASP:HB2	2.26	0.65
1:D:1527:ALA:O	1:D:1528:THR:C	2.32	0.65
2:E:1386:UNK:HA	2:E:1413:UNK:HA	1.78	0.65
2:E:1625:UNK:HA	2:E:1642:UNK:HA	1.77	0.65
2:E:1871:LEU:HD23	2:E:1872:GLN:N	2.12	0.65
2:E:298:LYS:O	2:E:302:VAL:HG23	1.97	0.65
1:G:1012:LEU:O	1:G:1013:LEU:HB3	1.95	0.65
1:G:1115:ASN:N	1:G:1115:ASN:ND2	2.44	0.65
2:H:1299:UNK:C	2:H:1301:UNK:N	2.56	0.65
2:H:1347:UNK:C	2:H:1349:UNK:N	2.58	0.65
2:H:1625:UNK:HA	2:H:1642:UNK:HA	1.79	0.65
2:H:1692:ASN:O	2:H:1696:ASN:HB2	1.97	0.65
2:H:390:ASN:HA	2:H:393:LEU:HD23	1.77	0.65
1:A:1240:VAL:HG22	1:A:1240:VAL:O	1.94	0.65
1:A:1423:LYS:C	1:A:1425:ILE:H	2.00	0.65
1:A:1037:TRP:CD2	1:A:1598:GLN:HG2	2.31	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1623:TYR:O	1:A:1624:VAL:O	2.15	0.65
1:A:826:MET:HE1	1:A:847:GLU:HG3	1.78	0.65
1:A:864:VAL:HG12	1:A:865:CYS:H	1.60	0.65
1:A:884:ILE:HG22	1:A:887:GLY:HA3	1.78	0.65
1:A:903:PHE:HA	1:A:906:LEU:CD2	2.26	0.65
2:B:238:CYS:HA	2:B:275:GLN:CD	2.17	0.65
2:B:597:UNK:HA	2:B:600:UNK:CB	2.26	0.65
1:D:1056:ILE:O	1:D:1058:GLY:N	2.29	0.65
1:D:1189:ILE:CG2	1:D:1377:MET:SD	2.84	0.65
1:D:1389:GLN:HB3	1:D:1392:LEU:CD2	2.23	0.65
1:D:1426:LEU:O	1:D:1428:THR:N	2.29	0.65
1:D:398:UNK:C	1:D:400:UNK:N	2.57	0.65
1:D:905:LEU:H	1:D:905:LEU:CD2	2.09	0.65
2:E:1332:UNK:C	2:E:1334:UNK:N	2.57	0.65
2:E:1541:UNK:HA	2:E:1628:UNK:CB	2.25	0.65
1:G:1021:VAL:HA	1:G:1387:ILE:HG22	1.77	0.65
1:G:1394:LEU:HA	1:G:1673:TYR:CD1	2.31	0.65
1:G:1618:LEU:HD13	1:G:1623:TYR:CE2	2.32	0.65
1:G:435:UNK:O	1:G:436:UNK:O	2.13	0.65
1:G:822:VAL:HG12	1:G:824:LEU:HD23	1.78	0.65
2:H:1542:UNK:N	2:H:1628:UNK:HA	2.12	0.65
1:A:1093:TYR:O	1:A:1094:GLU:HB3	1.96	0.65
1:A:1144:PHE:CG	1:A:1145:LYS:N	2.63	0.65
1:A:1155:PHE:C	1:A:1171:ALA:HB2	2.17	0.65
1:A:1189:ILE:CG2	1:A:1377:MET:SD	2.84	0.65
1:A:1471:LYS:HD3	1:A:1474:ALA:HB2	1.78	0.65
2:B:806:UNK:HA	2:B:1034:UNK:CB	2.26	0.65
2:B:144:ALA:O	2:B:146:PHE:N	2.29	0.65
1:D:1151:LYS:H	1:D:1151:LYS:HD2	1.61	0.65
1:D:694:GLN:HB3	1:D:725:TYR:CD2	2.31	0.65
1:D:838:MET:HA	1:D:841:GLU:OE1	1.95	0.65
2:E:1051:UNK:C	2:E:1053:UNK:N	2.58	0.65
2:E:115:THR:OG1	2:E:118:LYS:HB2	1.97	0.65
2:E:166:THR:HG23	2:E:168:ASP:OD2	1.97	0.65
2:E:567:UNK:HA	2:E:572:UNK:O	1.95	0.65
1:G:1369:ALA:CA	1:G:1547:LYS:HD2	2.26	0.65
1:G:1527:ALA:O	1:G:1528:THR:C	2.34	0.65
1:G:1732:THR:O	1:G:1733:PHE:O	2.14	0.65
2:H:302:VAL:O	2:H:306:ILE:HG13	1.96	0.65
1:A:1707:THR:HG23	1:A:1710:LEU:HG	1.79	0.65
1:A:552:UNK:O	1:A:554:UNK:N	2.21	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:839:TYR:HE1	1:A:843:LYS:HE2	1.62	0.65
2:B:466:SER:O	2:B:468:LEU:N	2.29	0.65
2:B:494:THR:HB	2:B:520:LYS:HZ2	1.62	0.65
1:D:1174:TYR:O	1:D:1175:ILE:CD1	2.44	0.65
1:D:1187:GLY:C	1:D:1188:GLN:NE2	2.50	0.65
1:D:1373:ARG:CG	1:D:1547:LYS:HB3	2.27	0.65
1:G:1130:ASP:O	1:G:1131:LEU:O	2.13	0.65
1:G:1174:TYR:O	1:G:1175:ILE:CD1	2.44	0.65
1:G:1455:ARG:O	1:G:1456:GLU:HB2	1.96	0.65
1:G:1455:ARG:HA	1:G:1459:ILE:HG23	1.79	0.65
1:G:1373:ARG:CD	1:G:1547:LYS:HB3	2.27	0.65
1:G:1583:HIS:HB2	1:G:1585:LYS:HG2	1.77	0.65
1:G:1586:GLY:C	1:G:1588:ALA:N	2.49	0.65
2:H:1791:ASP:O	2:H:1794:SER:HB3	1.96	0.65
1:A:1520:ALA:N	1:A:1521:PRO:CD	2.58	0.65
1:A:1589:GLY:HA2	1:A:1592:MET:CE	2.27	0.65
1:A:1625:LEU:HD22	1:A:1625:LEU:O	1.97	0.65
1:A:1697:LEU:O	1:A:1698:PHE:HB3	1.95	0.65
2:B:1732:ASN:O	2:B:1737:ILE:HG22	1.97	0.65
2:B:483:ILE:CG2	2:B:484:ILE:N	2.57	0.65
1:D:1079:LYS:HG2	1:D:1080:THR:OG1	1.96	0.65
1:D:1240:VAL:O	1:D:1240:VAL:HG22	1.97	0.65
2:E:1320:UNK:C	2:E:1322:UNK:H	2.09	0.65
2:E:85:ASN:ND2	2:E:134:LYS:HB2	2.11	0.65
2:E:1812:TYR:CD2	2:E:1812:TYR:N	2.63	0.65
2:E:221:ASN:N	2:E:221:ASN:ND2	2.44	0.65
2:E:444:VAL:HA	2:E:449:SER:OG	1.97	0.65
1:G:1248:GLY:HA2	1:G:1330:GLY:HA2	1.78	0.65
1:G:1311:SER:O	1:G:1312:VAL:C	2.34	0.65
1:G:1478:PRO:CB	1:G:1481:ASP:HB2	2.26	0.65
1:G:380:UNK:O	1:G:381:UNK:C	2.45	0.65
1:G:716:ASP:C	1:G:719:GLN:HB3	2.17	0.65
1:G:679:LEU:HD11	1:G:768:ILE:HG12	1.79	0.65
1:G:818:ARG:HG2	1:G:818:ARG:O	1.97	0.65
1:G:925:ASP:O	1:G:926:LEU:HD23	1.97	0.65
2:H:92:GLU:HA	2:H:96:LEU:CD1	2.26	0.65
1:A:1174:TYR:O	1:A:1175:ILE:CD1	2.43	0.65
1:A:1216:LEU:O	1:A:1219:VAL:HG12	1.95	0.65
1:A:1419:PRO:HD3	1:A:1646:PHE:HD1	1.62	0.65
1:A:1482:GLN:O	1:A:1486:LEU:HB2	1.96	0.65
1:A:994:GLU:N	1:A:994:GLU:OE1	2.30	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:744:UNK:C	2:B:746:UNK:N	2.54	0.65
1:D:1130:ASP:O	1:D:1131:LEU:O	2.15	0.65
1:D:1376:PHE:H	1:D:1376:PHE:HD1	1.45	0.65
1:D:822:VAL:HG12	1:D:824:LEU:HD23	1.78	0.65
2:E:1670:GLY:HA2	2:E:1672:GLN:HE22	1.61	0.65
2:E:1874:VAL:O	2:E:1878:VAL:HG22	1.97	0.65
2:E:344:LEU:HD11	2:E:348:GLN:HB3	1.79	0.65
2:E:653:UNK:C	2:E:655:UNK:N	2.56	0.65
2:E:92:GLU:HA	2:E:96:LEU:CD1	2.27	0.65
1:G:1188:GLN:HG2	1:G:1352:THR:CG2	2.23	0.65
1:G:1782:UNK:C	1:G:1784:UNK:H	2.09	0.65
2:H:1673:GLU:H	2:H:1676:MET:HE1	1.60	0.65
2:H:1718:THR:HG23	2:H:1765:ARG:HA	1.77	0.65
2:H:1715:VAL:CG2	2:H:1770:LEU:H	2.10	0.65
2:H:1772:SER:HA	2:H:1777:THR:OG1	1.97	0.65
2:H:246:LEU:HD13	2:H:296:VAL:HG13	1.77	0.65
2:H:332:GLU:OE2	2:H:390:ASN:HB3	1.97	0.65
2:H:390:ASN:CA	2:H:393:LEU:HB3	2.27	0.65
1:A:1096:SER:O	1:A:1098:LEU:N	2.29	0.65
1:A:1165:VAL:HG23	1:A:1166:LYS:H	1.61	0.65
1:A:1527:ALA:O	1:A:1528:THR:C	2.35	0.65
1:A:1553:GLU:C	1:A:1555:ALA:H	2.00	0.65
1:A:652:UNK:O	1:A:654:UNK:N	2.30	0.65
2:B:1542:UNK:N	2:B:1628:UNK:HA	2.11	0.65
2:B:349:VAL:O	2:B:353:VAL:HG23	1.97	0.65
1:D:1193:TRP:O	1:D:1194:ASN:HB2	1.96	0.65
1:D:1427:THR:C	1:D:1429:ALA:N	2.49	0.65
1:D:1455:ARG:O	1:D:1456:GLU:HB2	1.95	0.65
2:E:806:UNK:HA	2:E:1034:UNK:CB	2.27	0.65
2:E:1732:ASN:O	2:E:1737:ILE:HG22	1.97	0.65
2:E:332:GLU:OE2	2:E:390:ASN:HB3	1.97	0.65
2:E:418:ASN:N	2:E:418:ASN:HD22	1.93	0.65
1:G:1142:GLU:HA	1:G:1145:LYS:HB2	1.79	0.65
1:G:1501:LEU:O	1:G:1504:ALA:HB3	1.97	0.65
1:A:1095:THR:O	1:A:1096:SER:HB2	1.95	0.65
1:A:1107:GLU:HB3	1:A:1108:PRO:HD2	1.76	0.65
1:A:1189:ILE:HG22	1:A:1190:PRO:N	2.08	0.65
1:A:1326:ILE:HA	1:A:1387:ILE:O	1.96	0.65
1:D:1351:ASN:ND2	1:D:1353:LEU:O	2.30	0.65
1:D:503:UNK:C	1:D:505:UNK:H	2.09	0.65
1:D:850:PHE:CD2	1:D:864:VAL:HG11	2.32	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:1536:UNK:C	2:E:1538:UNK:N	2.58	0.65
2:E:1591:UNK:O	2:E:1593:UNK:N	2.31	0.65
2:E:250:VAL:O	2:E:253:ALA:HB3	1.97	0.65
2:E:310:CYS:HB3	2:E:432:LEU:HD11	1.79	0.65
1:G:1335:PHE:CE1	1:G:1340:SER:HB2	2.19	0.65
1:G:1376:PHE:CD2	1:G:1584:PRO:HD2	2.32	0.65
1:G:1445:MET:O	1:G:1447:TYR:N	2.30	0.65
1:G:1482:GLN:O	1:G:1486:LEU:HB2	1.97	0.65
1:G:1673:TYR:O	1:G:1675:ALA:N	2.30	0.65
2:H:1869:GLU:O	2:H:1873:TYR:HB2	1.96	0.65
2:H:1919:LEU:O	2:H:1919:LEU:HD23	1.97	0.65
1:A:1275:LEU:O	1:A:1275:LEU:HD22	1.96	0.64
2:B:115:THR:OG1	2:B:118:LYS:HB2	1.97	0.64
2:B:1740:THR:HB	2:B:1751:ILE:CG1	2.27	0.64
1:D:1056:ILE:HG22	1:D:1057:MET:H	1.61	0.64
1:D:1162:GLU:OE1	1:D:1163:TYR:HE1	1.80	0.64
1:D:1487:LEU:HD23	1:D:1754:UNK:CB	2.27	0.64
1:D:1623:TYR:O	1:D:1624:VAL:O	2.15	0.64
1:D:907:GLY:C	1:D:909:LEU:N	2.47	0.64
1:D:928:GLY:C	1:D:930:LEU:H	2.01	0.64
2:E:157:VAL:HG11	2:E:496:PHE:CE1	2.32	0.64
1:G:1194:ASN:O	1:G:1195:ALA:HB2	1.97	0.64
1:G:1529:TYR:O	1:G:1530:GLY:C	2.36	0.64
2:H:1733:TYR:HE1	2:H:1760:THR:HG23	1.61	0.64
1:A:1110:LEU:CD1	1:A:1120:GLU:HG3	2.20	0.64
1:A:1232:TYR:O	1:A:1234:MET:N	2.29	0.64
1:A:1431:GLU:HA	1:A:1521:PRO:HB2	1.79	0.64
1:A:1704:ALA:HB1	1:A:1705:PRO:CD	2.20	0.64
1:A:822:VAL:HG12	1:A:824:LEU:HD23	1.79	0.64
2:B:1258:UNK:O	2:B:1260:UNK:N	2.30	0.64
2:B:302:VAL:O	2:B:306:ILE:HG13	1.97	0.64
2:B:46:GLU:HG3	2:B:51:ASP:CB	2.25	0.64
2:B:4:TYR:CD1	2:B:5:SER:N	2.65	0.64
1:D:1277:GLU:N	1:D:1277:GLU:OE2	2.30	0.64
1:D:1311:SER:O	1:D:1312:VAL:C	2.35	0.64
1:D:1326:ILE:HA	1:D:1387:ILE:O	1.97	0.64
1:D:1394:LEU:HD23	1:D:1673:TYR:CE1	2.31	0.64
2:E:366:VAL:CG2	2:E:381:GLY:HA3	2.23	0.64
2:E:752:UNK:O	2:E:753:UNK:CB	2.45	0.64
1:G:1093:TYR:O	1:G:1094:GLU:HB3	1.97	0.64
1:G:1088:ASP:OD2	1:G:1097:ILE:HD13	1.97	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1158:PRO:CG	1:G:1159:GLU:H	2.10	0.64
1:G:1197:THR:HA	1:G:1200:ILE:HG22	1.80	0.64
1:G:1286:TRP:HD1	1:G:1290:LEU:CD1	2.09	0.64
1:G:1244:GLY:HA3	1:G:1294:SER:OG	1.96	0.64
1:G:1501:LEU:HD22	1:G:1505:GLN:NE2	2.12	0.64
1:G:1586:GLY:O	1:G:1588:ALA:N	2.30	0.64
1:G:747:ALA:HA	1:G:750:GLU:HB3	1.78	0.64
2:H:455:ILE:HD12	2:H:469:ARG:CB	2.23	0.64
2:H:528:ILE:HG23	2:H:529:VAL:N	2.11	0.64
1:A:1178:ALA:C	1:A:1179:LEU:CD2	2.66	0.64
2:B:1573:UNK:O	2:B:1575:UNK:N	2.31	0.64
2:B:298:LYS:O	2:B:302:VAL:HG23	1.97	0.64
2:B:418:ASN:HD22	2:B:418:ASN:N	1.95	0.64
1:D:1326:ILE:HG13	1:D:1388:MET:CG	2.28	0.64
1:D:1445:MET:O	1:D:1447:TYR:N	2.29	0.64
1:D:797:THR:O	1:D:800:LEU:HB2	1.97	0.64
2:E:1698:PHE:HE1	2:E:1828:VAL:HG21	1.61	0.64
2:E:490:TRP:CZ3	2:E:512:LEU:HD13	2.33	0.64
1:G:1275:LEU:HD22	1:G:1275:LEU:O	1.97	0.64
1:G:1471:LYS:HD3	1:G:1474:ALA:HB2	1.80	0.64
2:H:1830:VAL:HG13	2:H:1831:VAL:N	2.13	0.64
2:H:189:LYS:O	2:H:192:ALA:HB3	1.96	0.64
2:H:242:GLY:HA2	2:H:245:GLN:HG3	1.79	0.64
2:H:246:LEU:O	2:H:250:VAL:HG23	1.97	0.64
2:H:259:THR:N	2:H:262:GLU:HG3	2.12	0.64
2:H:349:VAL:O	2:H:353:VAL:HG23	1.97	0.64
2:H:511:GLY:O	2:H:513:GLY:N	2.26	0.64
1:A:1551:LYS:O	1:A:1553:GLU:N	2.30	0.64
1:A:1732:THR:O	1:A:1733:PHE:O	2.14	0.64
1:A:853:TRP:CZ2	1:A:859:ALA:HB1	2.32	0.64
2:B:157:VAL:HG11	2:B:496:PHE:CE1	2.32	0.64
2:B:1673:GLU:H	2:B:1676:MET:HE1	1.61	0.64
2:B:455:ILE:HD12	2:B:469:ARG:CB	2.24	0.64
2:B:617:UNK:O	2:B:652:UNK:O	2.16	0.64
2:B:92:GLU:HA	2:B:96:LEU:CD1	2.25	0.64
1:D:1114:TYR:OH	1:D:1194:ASN:HA	1.98	0.64
1:D:1280:ILE:H	1:D:1280:ILE:HD12	1.61	0.64
1:D:1352:THR:O	1:D:1353:LEU:CB	2.45	0.64
1:D:1431:GLU:HA	1:D:1521:PRO:HB2	1.79	0.64
1:G:1536:LEU:HA	1:G:1638:ALA:HB3	1.78	0.64
2:H:267:LEU:CG	2:H:268:LYS:H	2.11	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1088:ASP:OD2	1:A:1097:ILE:HD13	1.98	0.64
1:A:1119:LYS:O	1:A:1121:MET:N	2.29	0.64
1:A:1119:LYS:HG3	1:A:1122:ILE:H	1.62	0.64
1:A:1249:SER:HB3	1:A:1301:PRO:HD2	1.80	0.64
1:A:1604:ILE:HG23	1:A:1630:THR:HB	1.79	0.64
1:A:389:UNK:O	1:A:392:UNK:N	2.30	0.64
1:A:797:THR:O	1:A:800:LEU:HB2	1.97	0.64
2:B:1605:UNK:O	2:B:1607:UNK:N	2.25	0.64
2:B:1776:PHE:C	2:B:1779:PRO:HD2	2.18	0.64
2:B:1772:SER:HA	2:B:1777:THR:OG1	1.96	0.64
1:D:1090:LYS:O	1:D:1091:ALA:O	2.16	0.64
1:D:1119:LYS:HE3	1:D:1121:MET:CB	2.26	0.64
1:D:1190:PRO:CG	1:D:1379:ALA:HA	2.27	0.64
1:D:1586:GLY:C	1:D:1588:ALA:N	2.50	0.64
1:D:1697:LEU:H	1:D:1697:LEU:CD1	2.02	0.64
1:D:1706:TYR:HE2	1:D:1715:TYR:CZ	2.14	0.64
1:D:758:ASN:HD22	1:D:758:ASN:N	1.93	0.64
2:E:349:VAL:O	2:E:353:VAL:HG23	1.98	0.64
1:G:1271:GLN:O	1:G:1274:ILE:HB	1.97	0.64
1:G:1246:CYS:CA	1:G:1328:ILE:HG23	2.28	0.64
1:G:1328:ILE:O	1:G:1329:VAL:HG12	1.96	0.64
1:G:1340:SER:C	1:G:1341:PHE:O	2.32	0.64
1:G:1738:ILE:O	1:G:1739:GLN:HB2	1.96	0.64
2:H:1334:UNK:O	2:H:1335:UNK:O	2.16	0.64
2:H:274:SER:O	2:H:483:ILE:HD11	1.98	0.64
1:A:1271:GLN:O	1:A:1274:ILE:HB	1.97	0.64
1:A:374:UNK:O	1:A:375:UNK:C	2.45	0.64
1:A:503:UNK:C	1:A:505:UNK:H	2.09	0.64
2:B:1812:TYR:N	2:B:1812:TYR:CD2	2.65	0.64
2:B:1880:LYS:HD3	2:B:1899:VAL:HG11	1.78	0.64
1:D:1093:TYR:O	1:D:1094:GLU:HB3	1.97	0.64
1:D:1640:SER:HB2	1:D:1654:ILE:HB	1.78	0.64
2:E:390:ASN:CA	2:E:393:LEU:HB3	2.27	0.64
1:G:1096:SER:O	1:G:1098:LEU:N	2.30	0.64
1:G:504:UNK:CB	1:G:633:UNK:HA	2.27	0.64
1:G:927:ASN:HD21	1:G:931:GLN:H	1.46	0.64
2:H:1776:PHE:C	2:H:1779:PRO:HD2	2.18	0.64
2:H:1792:LEU:HA	2:H:1797:LEU:HD12	1.80	0.64
2:H:843:UNK:C	2:H:845:UNK:N	2.58	0.64
2:H:928:UNK:C	2:H:930:UNK:N	2.56	0.64
1:A:664:UNK:C	1:A:666:UNK:N	2.59	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1107:GLU:HB3	1:D:1108:PRO:HD2	1.80	0.64
1:D:1115:ASN:ND2	1:D:1115:ASN:N	2.43	0.64
2:E:302:VAL:O	2:E:306:ILE:HG13	1.97	0.64
2:E:851:UNK:C	2:E:853:UNK:H	2.10	0.64
1:G:1030:TRP:CZ2	1:G:1580:LEU:HD11	2.31	0.64
2:H:806:UNK:HA	2:H:1034:UNK:CB	2.28	0.64
2:H:115:THR:OG1	2:H:118:LYS:HB2	1.98	0.64
2:H:1663:UNK:HA	2:H:1803:THR:OG1	1.98	0.64
2:H:1966:UNK:HA	2:H:1970:UNK:CB	2.27	0.64
2:H:52:ASP:HB2	2:H:113:ASP:CG	2.18	0.64
2:H:536:ASN:O	2:H:538:ASP:N	2.31	0.64
1:A:1038:GLU:OE1	1:A:1045:PHE:HA	1.98	0.64
1:A:1142:GLU:HA	1:A:1145:LYS:HB2	1.78	0.64
1:A:1232:TYR:C	1:A:1234:MET:H	2.02	0.64
1:A:1246:CYS:CA	1:A:1328:ILE:HG23	2.27	0.64
1:A:1352:THR:O	1:A:1353:LEU:CB	2.46	0.64
2:B:1347:UNK:C	2:B:1349:UNK:N	2.57	0.64
2:B:1541:UNK:HA	2:B:1628:UNK:CB	2.28	0.64
2:B:338:MET:HG3	2:B:380:SER:HB2	1.78	0.64
2:B:344:LEU:HD11	2:B:348:GLN:HB3	1.79	0.64
2:B:45:THR:HG23	2:B:46:GLU:OE1	1.98	0.64
2:B:583:UNK:O	2:B:584:UNK:CB	2.46	0.64
1:D:1015:LEU:HD23	1:D:1018:VAL:HG12	1.80	0.64
1:D:1586:GLY:O	1:D:1588:ALA:N	2.31	0.64
2:E:1573:UNK:O	2:E:1575:UNK:N	2.31	0.64
2:E:43:GLU:HB2	2:E:44:PRO:CD	2.18	0.64
2:E:53:GLU:HG3	2:E:54:PRO:HD2	1.80	0.64
1:G:1139:GLU:O	1:G:1165:VAL:HG21	1.97	0.64
1:G:1187:GLY:C	1:G:1188:GLN:NE2	2.51	0.64
1:G:1224:ILE:HG13	1:G:1224:ILE:O	1.98	0.64
1:G:1487:LEU:HD23	1:G:1754:UNK:CB	2.28	0.64
1:G:899:LYS:O	1:G:901:MET:N	2.30	0.64
1:G:994:GLU:OE1	1:G:994:GLU:N	2.28	0.64
1:A:1187:GLY:H	1:A:1188:GLN:NE2	1.96	0.64
1:A:1369:ALA:HA	1:A:1547:LYS:CG	2.28	0.64
1:A:1706:TYR:CE2	1:A:1715:TYR:CZ	2.85	0.64
1:A:497:UNK:C	1:A:499:UNK:N	2.61	0.64
2:B:1299:UNK:C	2:B:1301:UNK:N	2.57	0.64
2:B:286:THR:CG2	2:B:292:PHE:HA	2.28	0.64
2:B:332:GLU:OE2	2:B:390:ASN:HB3	1.98	0.64
2:B:39:LYS:C	2:B:42:PRO:HD2	2.19	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:18:HIS:HD2	2:B:86:LEU:HD22	1.63	0.64
1:D:1142:GLU:HA	1:D:1145:LYS:HB2	1.79	0.64
1:D:1340:SER:C	1:D:1341:PHE:O	2.32	0.64
1:D:1411:THR:OG1	1:D:1412:ASP:N	2.24	0.64
1:D:1741:LYS:HE2	1:D:1741:LYS:HA	1.78	0.64
2:E:261:GLY:HA2	2:E:264:ARG:HG2	1.80	0.64
2:E:286:THR:HG23	2:E:292:PHE:HA	1.80	0.64
1:G:1426:LEU:O	1:G:1428:THR:N	2.31	0.64
1:G:1544:THR:OG1	1:G:1546:THR:CG2	2.45	0.64
1:G:1623:TYR:O	1:G:1624:VAL:O	2.15	0.64
1:G:412:UNK:O	1:G:414:UNK:N	2.30	0.64
1:G:664:UNK:O	1:G:666:UNK:N	2.30	0.64
2:H:1266:UNK:O	2:H:1268:UNK:N	2.31	0.64
2:H:238:CYS:HA	2:H:275:GLN:CD	2.17	0.64
2:H:417:SER:C	2:H:418:ASN:HD22	2.00	0.64
1:A:1111:PHE:O	1:A:1112:ASN:HB2	1.96	0.64
1:A:1162:GLU:OE1	1:A:1163:TYR:CE1	2.50	0.64
1:A:1212:THR:HG23	1:A:1283:MET:SD	2.38	0.64
1:A:1475:GLU:OE2	1:A:1479:SER:HA	1.98	0.64
1:A:925:ASP:O	1:A:926:LEU:HD23	1.97	0.64
2:B:1334:UNK:O	2:B:1335:UNK:O	2.16	0.64
2:B:235:PRO:O	2:B:236:ILE:HB	1.97	0.64
2:B:241:ILE:CG2	2:B:242:GLY:H	2.10	0.64
2:B:752:UNK:O	2:B:753:UNK:CB	2.46	0.64
1:D:1264:ARG:C	1:D:1266:LYS:N	2.47	0.64
1:D:490:UNK:O	1:D:491:UNK:C	2.46	0.64
2:E:59:GLU:OE1	2:E:122:LEU:HA	1.97	0.64
2:E:1258:UNK:O	2:E:1260:UNK:N	2.31	0.64
1:G:1462:TRP:CE3	1:G:1462:TRP:C	2.71	0.64
1:G:1577:GLN:HE22	1:G:1591:TRP:C	2.01	0.64
1:G:1707:THR:HG23	1:G:1710:LEU:HG	1.79	0.64
1:G:739:GLN:HB3	1:G:794:ILE:CG1	2.25	0.64
1:G:866:GLY:O	1:G:867:ALA:HB2	1.97	0.64
2:H:444:VAL:C	2:H:446:ASN:H	2.01	0.64
1:A:1076:VAL:HG11	1:A:1087:LYS:CA	2.23	0.63
1:A:1248:GLY:HA2	1:A:1330:GLY:HA2	1.79	0.63
1:A:1455:ARG:O	1:A:1456:GLU:HB2	1.96	0.63
1:A:1487:LEU:HD23	1:A:1754:UNK:CB	2.27	0.63
2:B:843:UNK:C	2:B:845:UNK:N	2.58	0.63
1:D:1145:LYS:O	1:D:1148:HIS:HB3	1.97	0.63
1:D:1673:TYR:O	1:D:1675:ALA:N	2.30	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1732:THR:O	1:D:1733:PHE:O	2.15	0.63
1:D:719:GLN:HG3	1:D:720:SER:N	2.12	0.63
1:D:679:LEU:HD11	1:D:768:ILE:HG12	1.81	0.63
2:E:238:CYS:HA	2:E:275:GLN:CD	2.18	0.63
2:E:514:VAL:O	2:E:517:HIS:HB3	1.98	0.63
2:E:995:UNK:C	2:E:997:UNK:N	2.59	0.63
2:H:881:UNK:O	2:H:883:UNK:N	2.31	0.63
1:A:1168:LEU:CD2	1:A:1169:LYS:H	2.09	0.63
1:A:1311:SER:O	1:A:1314:ILE:N	2.31	0.63
1:A:1373:ARG:CD	1:A:1547:LYS:HB3	2.29	0.63
1:A:1426:LEU:O	1:A:1428:THR:N	2.31	0.63
1:A:1029:PRO:HG2	1:A:1581:THR:HG23	1.81	0.63
2:B:1332:UNK:C	2:B:1334:UNK:N	2.57	0.63
2:B:341:ILE:O	2:B:341:ILE:HG22	1.98	0.63
1:D:1026:GLU:OE2	1:D:1036:ARG:HG2	1.98	0.63
1:D:1232:TYR:O	1:D:1234:MET:N	2.31	0.63
1:D:1553:GLU:HB2	1:D:1644:PHE:HE2	1.63	0.63
1:D:435:UNK:O	1:D:436:UNK:O	2.15	0.63
1:D:899:LYS:C	1:D:901:MET:N	2.52	0.63
2:E:511:GLY:O	2:E:513:GLY:N	2.27	0.63
1:G:1026:GLU:OE2	1:G:1036:ARG:HG2	1.98	0.63
1:G:1056:ILE:HG22	1:G:1057:MET:H	1.62	0.63
1:G:1090:LYS:O	1:G:1091:ALA:O	2.15	0.63
1:G:1162:GLU:OE1	1:G:1163:TYR:HE1	1.81	0.63
1:G:1222:ALA:O	1:G:1225:ALA:HB3	1.97	0.63
1:G:1462:TRP:HZ3	1:G:1466:GLU:CB	2.10	0.63
1:G:1578:LYS:HE3	1:G:1584:PRO:HB3	1.80	0.63
1:G:1706:TYR:CE2	1:G:1715:TYR:CZ	2.86	0.63
1:G:903:PHE:HA	1:G:906:LEU:CD2	2.29	0.63
2:H:1355:UNK:O	2:H:1407:UNK:HA	1.96	0.63
2:H:1485:UNK:HA	2:H:1511:UNK:O	1.98	0.63
2:H:1883:GLY:CA	2:H:1894:GLU:HG2	2.28	0.63
2:H:25:ALA:O	2:H:29:ILE:HB	1.98	0.63
1:A:1026:GLU:OE2	1:A:1036:ARG:HG2	1.97	0.63
1:A:1520:ALA:H	1:A:1521:PRO:CD	2.11	0.63
2:B:1485:UNK:HA	2:B:1511:UNK:O	1.98	0.63
2:B:1966:UNK:HA	2:B:1970:UNK:CB	2.27	0.63
2:B:274:SER:O	2:B:483:ILE:HD11	1.99	0.63
1:D:1099:GLU:O	1:D:1102:GLY:N	2.21	0.63
1:D:1501:LEU:HD22	1:D:1505:GLN:NE2	2.13	0.63
1:D:1583:HIS:HB2	1:D:1585:LYS:HG2	1.80	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1706:TYR:CE2	1:D:1715:TYR:CZ	2.86	0.63
2:E:1733:TYR:HE1	2:E:1760:THR:HG23	1.63	0.63
2:E:1883:GLY:CA	2:E:1894:GLU:HG2	2.29	0.63
2:E:238:CYS:HA	2:E:275:GLN:HE22	1.63	0.63
2:E:744:UNK:C	2:E:746:UNK:N	2.55	0.63
1:G:1095:THR:O	1:G:1096:SER:HB2	1.96	0.63
1:G:1187:GLY:H	1:G:1188:GLN:NE2	1.95	0.63
1:G:1323:LYS:O	1:G:1324:ALA:HB2	1.98	0.63
1:G:1198:TYR:O	1:G:1695:ASN:HB3	1.99	0.63
2:H:1541:UNK:HA	2:H:1628:UNK:CB	2.28	0.63
2:H:1864:ALA:O	2:H:1866:PHE:N	2.31	0.63
2:H:2040:UNK:C	2:H:2042:UNK:N	2.60	0.63
2:H:286:THR:HG23	2:H:292:PHE:HA	1.81	0.63
2:H:567:UNK:HA	2:H:572:UNK:O	1.97	0.63
1:A:1676:LYS:O	1:A:1679:ALA:HB3	1.99	0.63
2:B:1591:UNK:O	2:B:1593:UNK:N	2.30	0.63
2:B:1740:THR:O	2:B:1750:LYS:HA	1.99	0.63
1:D:1089:VAL:O	1:D:1091:ALA:N	2.31	0.63
1:D:1232:TYR:C	1:D:1234:MET:H	2.02	0.63
1:D:1253:GLY:O	1:D:1254:VAL:O	2.16	0.63
2:E:1173:UNK:HA	2:E:1182:UNK:CA	2.27	0.63
2:E:1830:VAL:HG13	2:E:1831:VAL:N	2.13	0.63
1:G:1145:LYS:O	1:G:1148:HIS:HB3	1.99	0.63
1:G:1243:VAL:HG12	1:G:1325:ARG:N	2.13	0.63
1:G:1326:ILE:HA	1:G:1387:ILE:O	1.98	0.63
1:G:694:GLN:HB3	1:G:725:TYR:CD2	2.33	0.63
2:H:1854:MET:HA	2:H:1895:ASN:HB2	1.81	0.63
2:H:241:ILE:CG2	2:H:242:GLY:H	2.11	0.63
2:H:752:UNK:O	2:H:753:UNK:CB	2.46	0.63
1:A:1207:GLN:CA	1:A:1207:GLN:HE21	2.11	0.63
2:B:122:LEU:HD23	2:B:123:ILE:N	2.14	0.63
2:B:350:GLN:O	2:B:353:VAL:N	2.32	0.63
1:D:1369:ALA:HA	1:D:1547:LYS:CG	2.29	0.63
1:D:1604:ILE:HG23	1:D:1630:THR:HB	1.81	0.63
1:D:852:ARG:O	1:D:854:HIS:N	2.32	0.63
1:D:884:ILE:HG22	1:D:887:GLY:HA3	1.80	0.63
2:E:1542:UNK:N	2:E:1628:UNK:HA	2.14	0.63
2:E:235:PRO:O	2:E:236:ILE:HB	1.98	0.63
2:E:259:THR:N	2:E:262:GLU:HG3	2.13	0.63
2:E:338:MET:HG3	2:E:380:SER:HB2	1.79	0.63
2:E:45:THR:HG23	2:E:46:GLU:OE1	1.98	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:4:TYR:CD1	2:E:5:SER:N	2.66	0.63
1:G:1189:ILE:CG2	1:G:1377:MET:SD	2.86	0.63
1:G:1264:ARG:C	1:G:1266:LYS:N	2.50	0.63
1:G:1475:GLU:C	1:G:1478:PRO:HD2	2.17	0.63
1:G:664:UNK:C	1:G:666:UNK:N	2.60	0.63
2:H:1258:UNK:O	2:H:1260:UNK:N	2.31	0.63
2:H:39:LYS:C	2:H:42:PRO:HD2	2.19	0.63
2:H:45:THR:HG23	2:H:46:GLU:OE1	1.99	0.63
1:A:1089:VAL:O	1:A:1091:ALA:N	2.32	0.63
1:A:1090:LYS:O	1:A:1091:ALA:O	2.16	0.63
1:A:1326:ILE:HG13	1:A:1388:MET:CG	2.28	0.63
1:A:1578:LYS:HE3	1:A:1584:PRO:HB3	1.79	0.63
2:B:1585:UNK:C	2:B:1587:UNK:N	2.60	0.63
2:B:1877:ARG:HB3	2:B:1929:LYS:HZ2	1.63	0.63
2:B:851:UNK:C	2:B:853:UNK:H	2.11	0.63
1:D:1036:ARG:NE	1:D:1037:TRP:N	2.47	0.63
1:D:1302:VAL:HG23	1:D:1303:GLY:N	2.13	0.63
1:D:1368:PRO:HA	1:D:1545:SER:HA	1.79	0.63
1:D:1198:TYR:O	1:D:1695:ASN:HB3	1.99	0.63
1:D:493:UNK:C	1:D:495:UNK:N	2.54	0.63
1:D:799:ILE:O	1:D:802:MET:HB2	1.99	0.63
1:D:769:ILE:HB	1:D:823:ILE:HD11	1.79	0.63
2:E:1453:UNK:C	2:E:1455:UNK:H	2.12	0.63
2:E:1740:THR:HB	2:E:1751:ILE:CG1	2.29	0.63
2:E:302:VAL:HG12	2:E:306:ILE:HD11	1.80	0.63
1:G:1019:ILE:HD11	1:G:1319:ILE:HG21	1.79	0.63
1:G:1107:GLU:HB3	1:G:1108:PRO:HD2	1.80	0.63
1:G:1650:GLY:O	1:G:1651:GLY:O	2.16	0.63
1:G:398:UNK:C	1:G:400:UNK:N	2.57	0.63
1:G:826:MET:HE1	1:G:847:GLU:HG3	1.78	0.63
2:H:1821:VAL:CG2	2:H:1822:MET:H	2.12	0.63
2:H:1880:LYS:HD3	2:H:1899:VAL:HG11	1.81	0.63
2:H:235:PRO:O	2:H:236:ILE:HB	1.98	0.63
2:H:87:CYS:CA	2:H:90:GLU:HB3	2.27	0.63
2:H:94:CYS:SG	2:H:95:TYR:N	2.72	0.63
1:A:1188:GLN:HG2	1:A:1352:THR:CG2	2.25	0.63
1:A:1190:PRO:CG	1:A:1379:ALA:HA	2.29	0.63
1:A:1202:ASP:O	1:A:1203:ASP:HB3	1.98	0.63
1:A:901:MET:HE3	1:A:905:LEU:HD23	1.81	0.63
2:B:1903:ASP:CG	2:B:1907:LEU:HD21	2.19	0.63
2:B:215:ILE:CD1	2:B:240:LEU:HD11	2.27	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:813:UNK:O	2:B:815:UNK:N	2.32	0.63
1:D:1207:GLN:HE21	1:D:1207:GLN:CA	2.12	0.63
1:D:1260:MET:HB3	1:D:1261:PHE:CD2	2.34	0.63
1:D:1423:LYS:HG2	1:D:1424:GLY:H	1.63	0.63
1:D:1532:THR:O	1:D:1534:ASP:N	2.32	0.63
1:D:1697:LEU:O	1:D:1698:PHE:HB3	1.98	0.63
1:D:374:UNK:O	1:D:375:UNK:C	2.46	0.63
1:D:664:UNK:C	1:D:666:UNK:N	2.59	0.63
2:E:1703:GLY:O	2:E:1704:PHE:CD1	2.51	0.63
2:E:797:UNK:C	2:E:799:UNK:N	2.61	0.63
1:G:1110:LEU:HD11	1:G:1188:GLN:N	2.14	0.63
1:G:1168:LEU:HD22	1:G:1169:LYS:N	2.10	0.63
1:G:1169:LYS:NZ	1:G:1170:GLY:O	2.25	0.63
1:G:1408:ALA:H	1:G:1653:ALA:HB2	1.64	0.63
1:G:748:LEU:O	1:G:752:ILE:HG13	1.98	0.63
2:H:53:GLU:HG3	2:H:54:PRO:HD2	1.80	0.63
2:H:949:UNK:O	2:H:951:UNK:N	2.32	0.63
1:A:1207:GLN:O	1:A:1208:VAL:HG22	1.99	0.63
1:A:1462:TRP:O	1:A:1463:VAL:HG23	1.98	0.63
1:A:586:UNK:HA	1:A:671:VAL:O	1.99	0.63
1:A:681:THR:OG1	1:A:770:PRO:HA	1.99	0.63
1:A:852:ARG:O	1:A:854:HIS:N	2.32	0.63
1:A:927:ASN:HD21	1:A:931:GLN:H	1.46	0.63
1:D:1062:TYR:CD1	1:D:1063:HIS:N	2.64	0.63
1:D:1062:TYR:HD2	1:D:1693:ILE:HB	1.63	0.63
1:D:1148:HIS:C	1:D:1150:ASP:H	2.02	0.63
1:D:1462:TRP:C	1:D:1462:TRP:CE3	2.71	0.63
1:D:1030:TRP:CZ2	1:D:1580:LEU:HD11	2.34	0.63
1:D:714:VAL:C	1:D:716:ASP:N	2.52	0.63
1:D:944:ARG:O	1:D:948:VAL:HG23	1.98	0.63
2:E:1884:TRP:HB2	2:E:1892:ASN:HD22	1.63	0.63
2:E:1909:THR:HG21	2:E:1927:LEU:CD1	2.28	0.63
1:G:1151:LYS:HD2	1:G:1151:LYS:H	1.62	0.63
1:G:1369:ALA:HA	1:G:1547:LYS:CG	2.29	0.63
1:G:1419:PRO:HD3	1:G:1646:PHE:CD1	2.34	0.63
1:G:1475:GLU:OE2	1:G:1479:SER:HA	1.99	0.63
1:G:1553:GLU:C	1:G:1555:ALA:H	2.02	0.63
1:G:832:THR:HG22	1:G:833:PHE:N	2.13	0.63
2:H:240:LEU:HD12	2:H:240:LEU:H	1.64	0.63
1:A:1039:MET:HE3	1:A:1039:MET:HA	1.79	0.63
1:A:1130:ASP:O	1:A:1131:LEU:O	2.16	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1445:MET:O	1:A:1447:TYR:N	2.31	0.63
1:A:1501:LEU:O	1:A:1504:ALA:HB3	1.98	0.63
1:A:1014:ASP:HB2	1:A:1510:ASN:OD1	1.98	0.63
1:A:552:UNK:O	1:A:555:UNK:N	2.32	0.63
2:B:1703:GLY:O	2:B:1704:PHE:CD1	2.52	0.63
2:B:1770:LEU:C	2:B:1770:LEU:HD23	2.19	0.63
2:B:536:ASN:O	2:B:538:ASP:N	2.31	0.63
1:D:1212:THR:HG23	1:D:1283:MET:SD	2.39	0.63
1:D:1625:LEU:O	1:D:1625:LEU:HD22	1.99	0.63
2:E:1880:LYS:HD3	2:E:1899:VAL:HG11	1.80	0.63
2:E:1877:ARG:HB3	2:E:1929:LYS:HZ1	1.64	0.63
2:E:2006:UNK:C	2:E:2008:UNK:H	2.11	0.63
2:E:417:SER:C	2:E:418:ASN:HD22	2.02	0.63
2:E:46:GLU:HG3	2:E:51:ASP:CB	2.27	0.63
1:G:1119:LYS:HG3	1:G:1122:ILE:H	1.62	0.63
1:G:1207:GLN:O	1:G:1208:VAL:HG22	1.99	0.63
1:G:1354:GLU:C	1:G:1356:PHE:H	2.02	0.63
1:G:1455:ARG:HG3	1:G:1455:ARG:HH11	1.62	0.63
1:G:850:PHE:CD2	1:G:864:VAL:HG11	2.34	0.63
2:H:1008:UNK:O	2:H:1009:UNK:C	2.47	0.63
2:H:1573:UNK:O	2:H:1575:UNK:N	2.32	0.63
1:A:1190:PRO:O	1:A:1191:THR:HG23	1.98	0.62
1:A:1280:ILE:H	1:A:1280:ILE:HD12	1.62	0.62
1:A:1475:GLU:C	1:A:1478:PRO:HD2	2.19	0.62
1:A:1538:VAL:O	1:A:1539:ALA:HB3	1.99	0.62
1:A:950:THR:O	1:A:954:ARG:HG2	1.99	0.62
2:B:39:LYS:O	2:B:42:PRO:HD2	1.98	0.62
2:B:417:SER:C	2:B:418:ASN:HD22	2.03	0.62
2:B:52:ASP:HB2	2:B:113:ASP:CG	2.20	0.62
1:D:1187:GLY:H	1:D:1188:GLN:NE2	1.96	0.62
1:D:1376:PHE:O	1:D:1377:MET:CB	2.47	0.62
1:D:1475:GLU:C	1:D:1478:PRO:HD2	2.19	0.62
2:E:144:ALA:O	2:E:146:PHE:N	2.31	0.62
2:E:1854:MET:HA	2:E:1895:ASN:HB2	1.81	0.62
2:E:215:ILE:CD1	2:E:240:LEU:HD11	2.28	0.62
2:E:319:LEU:CD2	2:E:335:PRO:HG3	2.29	0.62
2:E:40:ILE:O	2:E:41:LEU:HD23	1.99	0.62
2:H:250:VAL:O	2:H:253:ALA:HB3	1.98	0.62
2:H:40:ILE:O	2:H:41:LEU:HD23	1.99	0.62
2:H:653:UNK:C	2:H:655:UNK:N	2.55	0.62
2:H:797:UNK:C	2:H:799:UNK:N	2.61	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1060:ILE:C	1:A:1060:ILE:HD12	2.20	0.62
1:A:1114:TYR:OH	1:A:1194:ASN:HA	2.00	0.62
1:A:1376:PHE:HD1	1:A:1376:PHE:H	1.47	0.62
1:A:1680:ARG:O	1:A:1684:ALA:N	2.32	0.62
1:A:710:PHE:CE1	1:A:736:PRO:HD3	2.29	0.62
1:A:752:ILE:HA	1:A:761:LEU:CD2	2.24	0.62
2:B:1751:ILE:O	2:B:1752:PHE:O	2.17	0.62
2:B:1909:THR:HG21	2:B:1927:LEU:CD1	2.29	0.62
2:B:240:LEU:HD12	2:B:240:LEU:H	1.64	0.62
2:B:267:LEU:O	2:B:268:LYS:HB2	1.99	0.62
2:B:349:VAL:CG2	2:B:377:LEU:HD13	2.29	0.62
1:D:1462:TRP:HZ3	1:D:1466:GLU:CB	2.09	0.62
1:D:1029:PRO:HD2	1:D:1591:TRP:CH2	2.35	0.62
1:D:739:GLN:HB3	1:D:794:ILE:CG1	2.24	0.62
1:D:839:TYR:HE1	1:D:843:LYS:HE2	1.63	0.62
2:E:1724:GLU:HG2	2:E:1726:GLY:N	2.09	0.62
2:E:1826:SER:O	2:E:1829:GLU:HB3	1.99	0.62
2:E:267:LEU:O	2:E:268:LYS:HB2	1.99	0.62
2:E:345:THR:O	2:E:348:GLN:HB2	1.99	0.62
2:E:949:UNK:O	2:E:951:UNK:N	2.32	0.62
1:G:1097:ILE:O	1:G:1098:LEU:HD22	1.99	0.62
1:G:1131:LEU:O	1:G:1173:LEU:HB2	1.99	0.62
1:G:1202:ASP:O	1:G:1203:ASP:HB3	1.97	0.62
1:G:1203:ASP:N	1:G:1205:ILE:HG12	2.09	0.62
1:G:1307:THR:HG21	1:G:1586:GLY:HA2	1.81	0.62
1:G:1332:TYR:H	1:G:1587:ALA:CB	2.06	0.62
1:G:1676:LYS:O	1:G:1679:ALA:HB3	1.99	0.62
1:G:389:UNK:O	1:G:392:UNK:N	2.31	0.62
2:H:1051:UNK:C	2:H:1053:UNK:N	2.59	0.62
2:H:1266:UNK:C	2:H:1268:UNK:N	2.58	0.62
2:H:310:CYS:HB3	2:H:432:LEU:HD11	1.80	0.62
1:A:1222:ALA:O	1:A:1225:ALA:HB3	1.99	0.62
1:A:1277:GLU:N	1:A:1277:GLU:OE2	2.32	0.62
1:A:1319:ILE:HA	1:A:1324:ALA:O	1.98	0.62
1:A:1376:PHE:O	1:A:1377:MET:CB	2.46	0.62
1:A:1591:TRP:HA	1:A:1594:ASN:HD22	1.64	0.62
1:A:681:THR:HG22	1:A:771:PHE:O	2.00	0.62
1:A:928:GLY:C	1:A:930:LEU:H	2.00	0.62
2:B:1854:MET:HA	2:B:1895:ASN:HB2	1.82	0.62
2:B:1871:LEU:HD23	2:B:1872:GLN:N	2.13	0.62
1:D:1203:ASP:C	1:D:1205:ILE:N	2.45	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1203:ASP:N	1:D:1205:ILE:HG12	2.09	0.62
1:D:716:ASP:C	1:D:719:GLN:HB3	2.18	0.62
1:D:873:ARG:CG	1:D:874:GLY:H	2.12	0.62
1:D:903:PHE:HA	1:D:906:LEU:CD2	2.27	0.62
2:E:1751:ILE:O	2:E:1752:PHE:O	2.17	0.62
2:E:1864:ALA:O	2:E:1866:PHE:N	2.32	0.62
2:E:341:ILE:O	2:E:341:ILE:HG22	1.98	0.62
2:E:843:UNK:C	2:E:845:UNK:N	2.61	0.62
2:E:1885:LEU:H	3:F:2:UNK:CB	2.12	0.62
1:G:1139:GLU:CD	1:G:1139:GLU:N	2.53	0.62
1:G:1150:ASP:HB3	1:G:1151:LYS:HD2	1.81	0.62
1:G:1604:ILE:HG23	1:G:1630:THR:HB	1.81	0.62
1:G:679:LEU:H	1:G:679:LEU:HD12	1.64	0.62
2:H:1812:TYR:C	2:H:1814:ALA:H	2.02	0.62
2:H:221:ASN:ND2	2:H:221:ASN:N	2.42	0.62
2:H:267:LEU:O	2:H:268:LYS:HB2	2.00	0.62
2:H:59:GLU:C	2:H:125:ASN:HD22	2.02	0.62
2:H:18:HIS:HD2	2:H:86:LEU:HD22	1.62	0.62
2:B:1670:GLY:HA2	2:B:1672:GLN:HE22	1.63	0.62
2:B:1674:GLN:NE2	2:B:1712:ASN:HA	2.14	0.62
2:B:1718:THR:CG2	2:B:1765:ARG:HA	2.29	0.62
2:B:1830:VAL:HG13	2:B:1831:VAL:N	2.14	0.62
2:B:1883:GLY:CA	2:B:1894:GLU:HG2	2.29	0.62
2:B:444:VAL:C	2:B:446:ASN:H	2.03	0.62
2:B:616:UNK:O	2:B:618:UNK:N	2.23	0.62
1:D:1096:SER:O	1:D:1098:LEU:N	2.32	0.62
1:D:1155:PHE:C	1:D:1171:ALA:HB2	2.18	0.62
1:D:1139:GLU:O	1:D:1165:VAL:HG21	1.99	0.62
1:D:1394:LEU:HA	1:D:1673:TYR:CD1	2.34	0.62
1:D:1399:PRO:HG3	1:D:1681:GLU:CD	2.19	0.62
1:D:1532:THR:OG1	1:D:1535:ASP:N	2.33	0.62
1:D:1037:TRP:CD2	1:D:1598:GLN:HG2	2.33	0.62
1:D:832:THR:HG22	1:D:833:PHE:N	2.14	0.62
2:E:1329:UNK:O	2:E:1333:UNK:CB	2.48	0.62
2:E:1733:TYR:HH	2:E:1761:SER:HA	1.60	0.62
1:G:1015:LEU:HD23	1:G:1018:VAL:HG12	1.80	0.62
1:G:1119:LYS:O	1:G:1121:MET:N	2.32	0.62
1:G:497:UNK:C	1:G:499:UNK:N	2.60	0.62
2:H:157:VAL:HG11	2:H:496:PHE:CE1	2.33	0.62
1:A:1223:PHE:HD2	1:A:1386:ILE:HD13	1.64	0.62
1:A:1225:ALA:C	1:A:1227:GLY:N	2.52	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1062:TYR:HD2	1:A:1693:ILE:HB	1.63	0.62
1:A:714:VAL:C	1:A:716:ASP:N	2.53	0.62
1:A:968:VAL:HG13	2:B:1513:UNK:CB	2.29	0.62
2:B:242:GLY:HA2	2:B:245:GLN:HG3	1.81	0.62
2:B:87:CYS:CA	2:B:90:GLU:HB3	2.25	0.62
1:D:1259:GLY:CA	1:D:1263:ASP:HB2	2.20	0.62
1:D:1430:ARG:CG	1:D:1431:GLU:N	2.60	0.62
1:D:1688:PHE:O	1:D:1690:ASN:N	2.32	0.62
1:D:389:UNK:O	1:D:392:UNK:N	2.31	0.62
1:D:664:UNK:O	1:D:666:UNK:N	2.32	0.62
1:D:893:VAL:C	1:D:895:THR:H	2.02	0.62
2:E:1730:ARG:O	2:E:1732:ASN:N	2.32	0.62
2:E:273:HIS:HB2	2:E:490:TRP:HZ3	1.64	0.62
1:G:655:UNK:C	1:G:657:UNK:N	2.59	0.62
2:H:1770:LEU:HD23	2:H:1770:LEU:C	2.20	0.62
2:H:418:ASN:ND2	2:H:418:ASN:N	2.47	0.62
2:H:444:VAL:HA	2:H:449:SER:OG	1.98	0.62
2:H:483:ILE:CG2	2:H:484:ILE:N	2.56	0.62
1:A:1119:LYS:HE3	1:A:1121:MET:HG3	1.81	0.62
1:A:664:UNK:O	1:A:666:UNK:N	2.32	0.62
1:A:889:GLU:CA	1:A:893:VAL:HA	2.30	0.62
2:B:1764:PHE:N	2:B:1764:PHE:HD2	1.97	0.62
2:B:408:PRO:HG2	2:B:409:PHE:H	1.65	0.62
2:B:40:ILE:O	2:B:41:LEU:HD23	1.98	0.62
2:B:995:UNK:C	2:B:997:UNK:N	2.59	0.62
1:D:1088:ASP:OD2	1:D:1097:ILE:HD13	2.00	0.62
1:D:1137:SER:HG	1:D:1168:LEU:HD12	1.65	0.62
1:D:1202:ASP:O	1:D:1203:ASP:HB3	1.98	0.62
1:D:1249:SER:HB3	1:D:1301:PRO:HD2	1.81	0.62
1:D:544:UNK:O	1:D:548:UNK:N	2.33	0.62
2:E:25:ALA:O	2:E:29:ILE:HB	1.99	0.62
2:E:483:ILE:CG2	2:E:484:ILE:N	2.57	0.62
2:E:959:UNK:C	2:E:961:UNK:N	2.57	0.62
1:G:1155:PHE:C	1:G:1171:ALA:HB2	2.20	0.62
1:G:1190:PRO:O	1:G:1191:THR:HG23	1.99	0.62
1:G:1343:PHE:O	1:G:1345:ASN:N	2.30	0.62
1:G:1431:GLU:HA	1:G:1521:PRO:HB2	1.80	0.62
1:G:490:UNK:O	1:G:491:UNK:C	2.47	0.62
2:H:215:ILE:CD1	2:H:240:LEU:HD11	2.30	0.62
2:H:4:TYR:CD1	2:H:5:SER:N	2.67	0.62
1:A:1187:GLY:C	1:A:1188:GLN:NE2	2.52	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1362:PRO:HA	1:A:1365:MET:CE	2.30	0.62
1:A:1226:SER:HB3	1:A:1386:ILE:HD11	1.81	0.62
1:A:1399:PRO:HG3	1:A:1681:GLU:CD	2.20	0.62
1:A:1427:THR:C	1:A:1429:ALA:N	2.50	0.62
1:A:204:UNK:C	1:A:206:UNK:H	2.12	0.62
1:A:490:UNK:O	1:A:491:UNK:C	2.47	0.62
2:B:302:VAL:HG12	2:B:306:ILE:HD11	1.80	0.62
1:D:1208:VAL:O	1:D:1277:GLU:HG2	1.99	0.62
1:D:1268:GLU:HB3	1:D:1269:PRO:HD2	1.81	0.62
1:D:1243:VAL:CG1	1:D:1324:ALA:HA	2.28	0.62
1:D:1376:PHE:CD2	1:D:1584:PRO:HD2	2.35	0.62
1:D:1591:TRP:HA	1:D:1594:ASN:HD22	1.64	0.62
1:D:412:UNK:O	1:D:414:UNK:N	2.33	0.62
1:D:786:SER:O	1:D:789:GLU:N	2.33	0.62
2:E:1709:ILE:O	2:E:1771:LEU:HD13	1.99	0.62
2:E:444:VAL:C	2:E:446:ASN:H	2.01	0.62
2:E:59:GLU:C	2:E:125:ASN:HD22	2.02	0.62
2:E:18:HIS:HD2	2:E:86:LEU:HD22	1.63	0.62
2:E:87:CYS:CA	2:E:90:GLU:HB3	2.28	0.62
1:G:1190:PRO:CG	1:G:1379:ALA:HA	2.29	0.62
1:G:1203:ASP:C	1:G:1205:ILE:N	2.45	0.62
1:G:799:ILE:O	1:G:802:MET:HB2	1.99	0.62
2:H:1883:GLY:HA2	2:H:1894:GLU:CD	2.20	0.62
2:H:248:HIS:HB3	2:H:529:VAL:HG11	1.82	0.62
1:A:1036:ARG:NE	1:A:1037:TRP:N	2.47	0.62
1:A:1103:ILE:CA	1:A:1106:ILE:HD12	2.26	0.62
1:A:1268:GLU:HB3	1:A:1269:PRO:CD	2.29	0.62
1:A:1343:PHE:O	1:A:1345:ASN:N	2.32	0.62
1:A:1580:LEU:O	1:A:1580:LEU:CG	2.48	0.62
1:A:758:ASN:HD22	1:A:758:ASN:N	1.95	0.62
1:A:832:THR:HG22	1:A:833:PHE:N	2.14	0.62
2:B:1625:UNK:HA	2:B:1642:UNK:HA	1.80	0.62
2:B:1663:UNK:HA	2:B:1803:THR:OG1	2.00	0.62
2:B:209:PHE:CE2	2:B:213:LEU:HD22	2.35	0.62
2:B:345:THR:O	2:B:348:GLN:HB2	1.98	0.62
1:D:1110:LEU:HD11	1:D:1188:GLN:N	2.14	0.62
1:D:1118:LYS:HZ2	1:D:1337:GLU:HG3	1.64	0.62
1:D:1144:PHE:O	1:D:1148:HIS:N	2.31	0.62
1:D:1158:PRO:CG	1:D:1159:GLU:H	2.07	0.62
1:D:1244:GLY:HA3	1:D:1294:SER:OG	1.98	0.62
1:D:1208:VAL:HG12	1:D:1286:TRP:CH2	2.35	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1544:THR:OG1	1:D:1546:THR:HG22	2.00	0.62
1:D:1373:ARG:CD	1:D:1547:LYS:HB3	2.29	0.62
1:D:552:UNK:O	1:D:554:UNK:N	2.20	0.62
1:D:927:ASN:HD21	1:D:931:GLN:H	1.48	0.62
2:E:1663:UNK:HA	2:E:1803:THR:OG1	1.99	0.62
2:E:52:ASP:HB2	2:E:113:ASP:CG	2.19	0.62
2:E:53:GLU:HB2	2:E:108:LEU:HD21	1.81	0.62
1:G:1208:VAL:O	1:G:1277:GLU:HG2	2.00	0.62
1:G:714:VAL:C	1:G:716:ASP:N	2.51	0.62
1:G:893:VAL:C	1:G:895:THR:H	2.02	0.62
2:H:1585:UNK:HA	2:H:1588:UNK:CB	2.29	0.62
1:A:1131:LEU:O	1:A:1173:LEU:HB2	2.00	0.62
1:A:1323:LYS:O	1:A:1324:ALA:HB2	1.99	0.62
1:A:1341:PHE:O	1:A:1343:PHE:N	2.33	0.62
1:A:1462:TRP:HZ3	1:A:1466:GLU:CB	2.08	0.62
1:A:1464:GLU:CA	1:A:1467:LEU:HD12	2.25	0.62
1:A:525:UNK:O	1:A:527:UNK:N	2.33	0.62
1:A:571:UNK:O	1:A:575:UNK:N	2.33	0.62
1:A:818:ARG:O	1:A:818:ARG:HG2	2.00	0.62
2:B:1024:UNK:O	2:B:1025:UNK:CB	2.47	0.62
2:B:1585:UNK:HA	2:B:1588:UNK:CB	2.30	0.62
2:B:1689:ASP:HA	2:B:1692:ASN:HB2	1.82	0.62
2:B:267:LEU:CG	2:B:268:LYS:H	2.11	0.62
1:D:1079:LYS:HD2	1:D:1098:LEU:HD22	1.78	0.62
1:D:1307:THR:HG21	1:D:1586:GLY:HA2	1.81	0.62
1:D:1332:TYR:H	1:D:1587:ALA:CB	2.06	0.62
1:D:1455:ARG:HG3	1:D:1455:ARG:HH11	1.64	0.62
1:D:1462:TRP:O	1:D:1463:VAL:HG23	1.99	0.62
1:D:717:TYR:O	1:D:719:GLN:N	2.31	0.62
1:D:889:GLU:CA	1:D:893:VAL:HA	2.30	0.62
2:E:1674:GLN:NE2	2:E:1712:ASN:HA	2.15	0.62
2:E:1718:THR:CG2	2:E:1765:ARG:HA	2.29	0.62
2:E:56:THR:CG2	2:E:59:GLU:HG3	2.26	0.62
1:G:1247:SER:O	1:G:1301:PRO:HD2	2.00	0.62
1:G:1277:GLU:N	1:G:1277:GLU:OE2	2.33	0.62
1:G:1462:TRP:O	1:G:1463:VAL:HG23	1.99	0.62
1:G:838:MET:HA	1:G:841:GLU:OE1	1.99	0.62
1:G:889:GLU:CA	1:G:893:VAL:HA	2.30	0.62
1:G:993:PRO:HD3	1:G:1681:GLU:CD	2.20	0.62
2:H:1703:GLY:O	2:H:1704:PHE:CD1	2.53	0.62
2:H:1751:ILE:O	2:H:1752:PHE:O	2.17	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:1698:PHE:HE1	2:H:1828:VAL:HG21	1.65	0.62
2:H:1927:LEU:HA	2:H:1930:SER:HB3	1.81	0.62
2:H:344:LEU:HD11	2:H:348:GLN:HB3	1.81	0.62
2:H:995:UNK:C	2:H:997:UNK:N	2.61	0.62
1:A:1097:ILE:O	1:A:1098:LEU:HD22	1.99	0.62
1:A:1326:ILE:HD12	1:A:1326:ILE:N	2.14	0.62
1:A:1462:TRP:C	1:A:1462:TRP:CE3	2.73	0.62
1:A:873:ARG:CG	1:A:874:GLY:H	2.12	0.62
2:B:1329:UNK:O	2:B:1333:UNK:CB	2.48	0.62
2:B:18:HIS:O	2:B:22:VAL:HG23	1.99	0.62
2:B:274:SER:C	2:B:483:ILE:HD11	2.20	0.62
1:D:1141:ALA:O	1:D:1143:GLN:N	2.33	0.62
1:D:1223:PHE:CD1	1:D:1231:PRO:HB3	2.35	0.62
1:D:1223:PHE:HD2	1:D:1386:ILE:HD13	1.63	0.62
1:D:1286:TRP:HD1	1:D:1290:LEU:CD1	2.13	0.62
1:D:1413:LYS:HG2	1:D:1414:ILE:H	1.64	0.62
1:D:1522:LEU:O	1:D:1523:ARG:C	2.38	0.62
1:D:385:UNK:O	1:D:388:UNK:CB	2.48	0.62
1:D:818:ARG:O	1:D:818:ARG:HG2	2.00	0.62
2:E:1696:ASN:O	2:E:1700:ASP:HB2	2.00	0.62
2:E:1821:VAL:CG2	2:E:1822:MET:H	2.11	0.62
2:E:408:PRO:CB	2:E:412:ARG:HD2	2.30	0.62
1:G:1111:PHE:HB3	1:G:1114:TYR:CD1	2.35	0.62
1:G:1459:ILE:HG13	1:G:1460:LYS:H	1.65	0.62
1:G:1625:LEU:O	1:G:1625:LEU:HD22	1.99	0.62
1:G:449:UNK:C	1:G:451:UNK:N	2.59	0.62
1:G:493:UNK:O	1:G:494:UNK:C	2.48	0.62
2:H:1730:ARG:O	2:H:1732:ASN:N	2.32	0.62
2:H:2040:UNK:HA	2:H:2043:UNK:CB	2.30	0.62
2:H:53:GLU:HB2	2:H:108:LEU:HD21	1.81	0.62
1:A:719:GLN:HG3	1:A:720:SER:N	2.14	0.61
2:B:1370:UNK:O	2:B:1371:UNK:CB	2.48	0.61
2:B:1486:UNK:O	2:B:1510:UNK:HA	2.01	0.61
2:B:1927:LEU:HA	2:B:1930:SER:HB3	1.81	0.61
2:B:25:ALA:HB1	2:B:65:LEU:HD11	1.82	0.61
1:D:1178:ALA:O	1:D:1179:LEU:CB	2.48	0.61
1:D:1224:ILE:HG13	1:D:1224:ILE:O	1.99	0.61
1:D:1261:PHE:N	1:D:1261:PHE:CD2	2.67	0.61
1:D:1258:ARG:HG2	1:D:1263:ASP:OD2	2.00	0.61
1:D:1422:GLY:C	1:D:1425:ILE:HB	2.20	0.61
1:D:901:MET:HE3	1:D:905:LEU:HD23	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:569:UNK:CB	2:E:1074:UNK:HA	2.30	0.61
2:E:1773:ALA:O	2:E:1775:GLN:N	2.33	0.61
2:E:1927:LEU:HA	2:E:1930:SER:HB3	1.80	0.61
2:E:242:GLY:HA2	2:E:245:GLN:HG3	1.82	0.61
2:E:289:TRP:HA	2:E:292:PHE:HB3	1.82	0.61
1:G:1062:TYR:HD2	1:G:1693:ILE:HB	1.64	0.61
1:G:1119:LYS:HE3	1:G:1121:MET:HG3	1.82	0.61
1:G:1178:ALA:O	1:G:1179:LEU:CB	2.47	0.61
1:G:1376:PHE:O	1:G:1377:MET:CB	2.46	0.61
1:G:1399:PRO:HG3	1:G:1681:GLU:CD	2.19	0.61
1:G:1701:LYS:N	1:G:1701:LYS:HE3	2.14	0.61
1:G:525:UNK:O	1:G:528:UNK:N	2.33	0.61
1:G:552:UNK:O	1:G:555:UNK:N	2.33	0.61
1:G:758:ASN:N	1:G:758:ASN:HD22	1.94	0.61
1:G:786:SER:O	1:G:789:GLU:N	2.31	0.61
1:G:853:TRP:CZ2	1:G:859:ALA:HB1	2.34	0.61
2:H:2049:UNK:O	2:H:2050:UNK:C	2.48	0.61
2:H:238:CYS:HA	2:H:275:GLN:HE22	1.64	0.61
2:H:345:THR:O	2:H:348:GLN:HB2	1.99	0.61
2:H:39:LYS:O	2:H:42:PRO:HD2	1.99	0.61
2:H:504:PHE:HA	2:H:529:VAL:HG21	1.81	0.61
1:A:1198:TYR:O	1:A:1695:ASN:HB3	2.00	0.61
1:D:1323:LYS:O	1:D:1324:ALA:HB2	1.98	0.61
1:D:1454:THR:CG2	1:D:1455:ARG:H	1.93	0.61
1:D:1650:GLY:O	1:D:1651:GLY:O	2.18	0.61
1:D:1717:ASP:O	1:D:1719:LEU:N	2.33	0.61
1:D:449:UNK:C	1:D:451:UNK:N	2.60	0.61
1:D:571:UNK:O	1:D:575:UNK:N	2.33	0.61
1:D:771:PHE:CE2	1:D:825:PRO:HB3	2.35	0.61
2:E:1024:UNK:O	2:E:1025:UNK:CB	2.47	0.61
2:E:1791:ASP:O	2:E:1794:SER:HB3	2.00	0.61
2:E:39:LYS:C	2:E:42:PRO:HD2	2.21	0.61
1:G:1144:PHE:HA	1:G:1147:GLN:HB2	1.83	0.61
1:G:1370:THR:HG22	1:G:1613:ASN:O	2.00	0.61
1:G:858:TRP:HE3	1:G:862:LEU:HB2	1.65	0.61
2:H:1884:TRP:HB2	2:H:1892:ASN:HD22	1.65	0.61
1:A:1000:GLN:C	1:A:1002:LYS:N	2.53	0.61
1:A:1430:ARG:CG	1:A:1431:GLU:N	2.60	0.61
1:A:525:UNK:O	1:A:528:UNK:N	2.32	0.61
1:A:753:TYR:CD2	1:A:809:GLN:HG3	2.36	0.61
2:B:1730:ARG:O	2:B:1732:ASN:N	2.33	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:31:SER:O	2:B:33:LEU:N	2.34	0.61
2:B:514:VAL:O	2:B:517:HIS:HB3	2.00	0.61
2:B:53:GLU:HB2	2:B:108:LEU:HD21	1.81	0.61
2:B:653:UNK:C	2:B:655:UNK:N	2.55	0.61
1:D:1112:ASN:HA	1:D:1114:TYR:HB2	1.82	0.61
1:D:1119:LYS:HE3	1:D:1121:MET:HG3	1.82	0.61
1:D:1408:ALA:HB2	1:D:1652:GLN:C	2.21	0.61
1:D:950:THR:O	1:D:954:ARG:HG2	2.00	0.61
2:E:1585:UNK:HA	2:E:1588:UNK:CB	2.30	0.61
2:E:1792:LEU:HA	2:E:1797:LEU:HD12	1.81	0.61
2:E:418:ASN:N	2:E:418:ASN:ND2	2.49	0.61
1:G:1063:HIS:O	1:G:1065:GLY:N	2.33	0.61
1:G:1268:GLU:HB3	1:G:1269:PRO:HD2	1.80	0.61
1:G:1339:GLY:C	1:G:1340:SER:O	2.38	0.61
1:G:1413:LYS:HG2	1:G:1414:ILE:H	1.66	0.61
1:G:1473:GLU:O	1:G:1474:ALA:C	2.39	0.61
1:G:525:UNK:O	1:G:527:UNK:N	2.34	0.61
1:G:928:GLY:C	1:G:930:LEU:H	2.02	0.61
2:H:1826:SER:O	2:H:1829:GLU:HB3	1.99	0.61
2:H:444:VAL:O	2:H:446:ASN:N	2.33	0.61
2:H:467:ASP:C	2:H:469:ARG:H	2.04	0.61
1:A:1041:ALA:HB1	1:A:1042:PHE:CE1	2.36	0.61
1:A:679:LEU:HD11	1:A:768:ILE:HG12	1.81	0.61
1:A:912:GLU:O	1:A:916:LEU:N	2.29	0.61
1:A:999:LYS:O	1:A:1001:VAL:N	2.30	0.61
2:B:319:LEU:CD2	2:B:335:PRO:HG3	2.31	0.61
2:B:408:PRO:CB	2:B:412:ARG:HD2	2.31	0.61
2:B:797:UNK:C	2:B:799:UNK:N	2.61	0.61
1:D:1119:LYS:O	1:D:1121:MET:N	2.31	0.61
1:D:1246:CYS:CA	1:D:1328:ILE:HG23	2.29	0.61
1:D:1243:VAL:HG12	1:D:1325:ARG:N	2.16	0.61
1:D:1538:VAL:O	1:D:1539:ALA:HB3	2.00	0.61
1:D:807:LYS:HD3	1:D:807:LYS:C	2.21	0.61
2:E:1885:LEU:HD22	2:E:1891:TYR:CD2	2.35	0.61
2:E:241:ILE:CG2	2:E:242:GLY:H	2.13	0.61
1:G:1144:PHE:O	1:G:1148:HIS:N	2.32	0.61
1:G:1162:GLU:OE1	1:G:1163:TYR:CE1	2.53	0.61
1:G:1178:ALA:C	1:G:1179:LEU:CD2	2.69	0.61
1:G:1532:THR:O	1:G:1534:ASP:N	2.34	0.61
1:G:428:UNK:C	1:G:430:UNK:N	2.62	0.61
1:G:503:UNK:C	1:G:505:UNK:H	2.11	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:1024:UNK:O	2:H:1025:UNK:CB	2.48	0.61
2:H:59:GLU:OE1	2:H:122:LEU:HA	2.00	0.61
2:H:1734:SER:O	2:H:1737:ILE:O	2.17	0.61
2:H:1740:THR:HB	2:H:1751:ILE:CG1	2.30	0.61
1:A:1056:ILE:HG22	1:A:1057:MET:H	1.64	0.61
1:A:1063:HIS:O	1:A:1065:GLY:N	2.34	0.61
1:A:1083:PRO:HG2	1:A:1084:VAL:H	1.65	0.61
1:A:1286:TRP:HD1	1:A:1290:LEU:CD1	2.13	0.61
2:B:1453:UNK:C	2:B:1455:UNK:H	2.12	0.61
2:B:1696:ASN:O	2:B:1700:ASP:HB2	2.01	0.61
2:B:1698:PHE:HE1	2:B:1828:VAL:HG21	1.63	0.61
2:B:1724:GLU:O	2:B:1729:ILE:HB	2.01	0.61
2:B:1812:TYR:C	2:B:1814:ALA:H	2.04	0.61
1:D:1057:MET:CE	1:D:1106:ILE:HD11	2.31	0.61
1:D:1162:GLU:OE1	1:D:1163:TYR:CE1	2.52	0.61
2:E:1008:UNK:O	2:E:1009:UNK:C	2.47	0.61
2:E:1334:UNK:O	2:E:1335:UNK:O	2.18	0.61
2:E:1764:PHE:HD2	2:E:1764:PHE:N	1.98	0.61
2:E:274:SER:C	2:E:483:ILE:HD11	2.21	0.61
1:G:1263:ASP:O	1:G:1264:ARG:CB	2.47	0.61
1:G:1697:LEU:O	1:G:1698:PHE:HB3	2.00	0.61
1:G:852:ARG:O	1:G:854:HIS:N	2.33	0.61
2:H:569:UNK:CB	2:H:1074:UNK:HA	2.31	0.61
2:H:1453:UNK:C	2:H:1455:UNK:H	2.13	0.61
2:H:408:PRO:CB	2:H:412:ARG:HD2	2.30	0.61
2:H:483:ILE:CG2	2:H:484:ILE:HG23	2.30	0.61
2:H:63:LYS:HD2	2:H:125:ASN:CG	2.21	0.61
1:A:1119:LYS:CG	1:A:1121:MET:HB2	2.30	0.61
1:A:1156:GLU:N	1:A:1171:ALA:HB2	2.16	0.61
1:A:1243:VAL:CG1	1:A:1324:ALA:HA	2.30	0.61
1:A:1583:HIS:HB2	1:A:1585:LYS:HG2	1.81	0.61
1:A:1583:HIS:CG	1:A:1585:LYS:H	2.15	0.61
1:A:1029:PRO:HD2	1:A:1591:TRP:CH2	2.35	0.61
1:A:449:UNK:C	1:A:451:UNK:N	2.62	0.61
1:A:786:SER:O	1:A:789:GLU:N	2.33	0.61
2:B:1051:UNK:C	2:B:1053:UNK:N	2.58	0.61
2:B:144:ALA:C	2:B:146:PHE:H	2.04	0.61
2:B:1791:ASP:O	2:B:1794:SER:HB3	2.00	0.61
1:D:1082:GLU:HA	1:D:1085:ASP:OD1	2.00	0.61
1:D:1095:THR:HA	1:D:1099:GLU:HB2	1.83	0.61
1:D:1241:SER:C	1:D:1243:VAL:H	2.03	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1326:ILE:N	1:D:1326:ILE:HD12	2.16	0.61
1:D:1473:GLU:O	1:D:1474:ALA:C	2.38	0.61
1:D:1607:GLY:O	1:D:1610:ASN:ND2	2.34	0.61
1:D:1676:LYS:O	1:D:1679:ALA:HB3	2.00	0.61
1:D:993:PRO:HD3	1:D:1681:GLU:CD	2.21	0.61
1:D:204:UNK:C	1:D:206:UNK:H	2.13	0.61
2:E:1685:LYS:O	2:E:1688:GLN:HB3	2.01	0.61
2:E:1789:PHE:O	2:E:1792:LEU:N	2.33	0.61
2:E:1966:UNK:HA	2:E:1970:UNK:CB	2.30	0.61
2:E:267:LEU:CG	2:E:268:LYS:H	2.13	0.61
2:E:339:LEU:O	2:E:378:VAL:HA	2.00	0.61
1:G:1232:TYR:C	1:G:1234:MET:H	2.03	0.61
1:G:1352:THR:O	1:G:1353:LEU:CB	2.48	0.61
1:G:1326:ILE:HG13	1:G:1388:MET:CG	2.30	0.61
1:G:1427:THR:C	1:G:1429:ALA:N	2.48	0.61
2:H:144:ALA:O	2:H:146:PHE:N	2.32	0.61
2:H:1773:ALA:O	2:H:1775:GLN:N	2.34	0.61
2:H:273:HIS:HB2	2:H:490:TRP:HZ3	1.64	0.61
1:A:1105:LEU:HD22	1:A:1111:PHE:CZ	2.35	0.61
1:A:1522:LEU:O	1:A:1523:ARG:C	2.39	0.61
1:A:586:UNK:CB	1:A:671:VAL:N	2.61	0.61
2:B:1397:UNK:O	2:B:1398:UNK:C	2.48	0.61
2:B:53:GLU:HG3	2:B:54:PRO:HD2	1.81	0.61
1:D:1418:VAL:HG12	1:D:1419:PRO:HA	1.83	0.61
1:D:905:LEU:HA	1:D:908:LEU:HB3	1.83	0.61
2:E:1485:UNK:HA	2:E:1511:UNK:O	2.01	0.61
1:G:1095:THR:HA	1:G:1099:GLU:HB2	1.82	0.61
1:G:1261:PHE:N	1:G:1261:PHE:CD2	2.68	0.61
1:G:1464:GLU:CA	1:G:1467:LEU:HD12	2.25	0.61
1:G:1522:LEU:O	1:G:1523:ARG:C	2.39	0.61
1:G:1680:ARG:O	1:G:1684:ALA:N	2.34	0.61
1:G:204:UNK:C	1:G:206:UNK:H	2.12	0.61
1:G:679:LEU:HD13	1:G:679:LEU:O	2.00	0.61
2:H:1885:LEU:HD22	2:H:1891:TYR:CD2	2.36	0.61
2:H:1877:ARG:HB3	2:H:1929:LYS:HZ3	1.62	0.61
2:H:274:SER:C	2:H:483:ILE:HD11	2.20	0.61
2:H:583:UNK:O	2:H:584:UNK:CB	2.48	0.61
1:A:1178:ALA:O	1:A:1179:LEU:CB	2.49	0.61
1:A:1308:SER:CB	1:A:1590:ALA:H	2.13	0.61
1:A:993:PRO:HD3	1:A:1681:GLU:CD	2.21	0.61
1:A:838:MET:HA	1:A:841:GLU:OE1	2.01	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1144:PHE:CD1	1:D:1145:LYS:N	2.68	0.61
1:D:1190:PRO:O	1:D:1191:THR:HG23	2.01	0.61
1:D:1263:ASP:O	1:D:1264:ARG:CB	2.49	0.61
1:D:1339:GLY:O	1:D:1341:PHE:O	2.19	0.61
1:D:1325:ARG:HB2	1:D:1389:GLN:HB2	1.83	0.61
1:D:1062:TYR:CE2	1:D:1693:ILE:HD12	2.31	0.61
1:D:717:TYR:HD2	1:D:718:TYR:CD1	2.19	0.61
1:G:1247:SER:O	1:G:1301:PRO:CD	2.48	0.61
1:G:1448:ARG:CA	1:G:1451:GLN:HB3	2.31	0.61
1:G:1455:ARG:HG3	1:G:1459:ILE:CG2	2.31	0.61
1:G:1494:HIS:O	1:G:1497:ALA:HB3	2.01	0.61
1:G:1615:ASP:OD2	1:G:1617:ILE:HG12	2.01	0.61
1:G:380:UNK:O	1:G:383:UNK:N	2.34	0.61
1:G:529:UNK:O	1:G:533:UNK:N	2.34	0.61
1:G:705:VAL:HG11	1:G:718:TYR:CE2	2.36	0.61
2:H:1585:UNK:C	2:H:1587:UNK:N	2.61	0.61
2:H:1674:GLN:NE2	2:H:1712:ASN:HA	2.15	0.61
2:H:1718:THR:CG2	2:H:1765:ARG:HA	2.30	0.61
2:H:620:UNK:C	2:H:622:UNK:N	2.63	0.61
1:A:1334:ASP:CG	1:A:1335:PHE:H	2.04	0.61
1:A:1351:ASN:ND2	1:A:1353:LEU:O	2.33	0.61
1:A:1419:PRO:HD3	1:A:1646:PHE:CD1	2.36	0.61
1:A:1685:TYR:O	1:A:1685:TYR:CD1	2.54	0.61
1:A:493:UNK:O	1:A:494:UNK:C	2.48	0.61
2:B:98:GLY:C	2:B:100:ASP:H	2.04	0.61
2:B:569:UNK:CB	2:B:1074:UNK:HA	2.31	0.61
2:B:63:LYS:HD2	2:B:125:ASN:ND2	2.16	0.61
2:B:1377:UNK:HA	2:B:1391:UNK:HA	1.83	0.61
2:B:1709:ILE:O	2:B:1771:LEU:HD13	2.00	0.61
2:B:1821:VAL:CG2	2:B:1822:MET:H	2.11	0.61
2:B:1885:LEU:HD22	2:B:1891:TYR:CD2	2.36	0.61
2:B:2006:UNK:C	2:B:2008:UNK:H	2.13	0.61
2:B:59:GLU:C	2:B:125:ASN:HD22	2.04	0.61
2:B:949:UNK:O	2:B:951:UNK:N	2.34	0.61
1:D:1060:ILE:C	1:D:1060:ILE:HD12	2.21	0.61
1:D:1334:ASP:CG	1:D:1335:PHE:H	2.04	0.61
1:D:1354:GLU:C	1:D:1356:PHE:H	2.03	0.61
1:D:1536:LEU:H	1:D:1536:LEU:CD1	2.07	0.61
2:E:1740:THR:O	2:E:1750:LYS:HA	2.01	0.61
1:G:1084:VAL:O	1:G:1085:ASP:C	2.39	0.61
1:G:1207:GLN:HE21	1:G:1207:GLN:CA	2.12	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1640:SER:HB2	1:G:1654:ILE:HB	1.82	0.61
1:G:873:ARG:CG	1:G:874:GLY:H	2.13	0.61
1:G:884:ILE:HG22	1:G:887:GLY:HA3	1.81	0.61
2:H:1724:GLU:O	2:H:1729:ILE:HB	2.01	0.61
2:H:408:PRO:HG2	2:H:409:PHE:H	1.65	0.61
1:A:1259:GLY:CA	1:A:1263:ASP:HB2	2.25	0.61
1:A:1423:LYS:HG2	1:A:1424:GLY:H	1.65	0.61
2:B:1008:UNK:O	2:B:1009:UNK:C	2.48	0.61
2:B:1431:UNK:O	2:B:1432:UNK:O	2.19	0.61
2:B:1983:UNK:C	2:B:1985:UNK:N	2.63	0.61
1:D:1022:THR:O	1:D:1401:TYR:HE2	1.84	0.61
1:D:1118:LYS:CE	1:D:1337:GLU:HG3	2.31	0.61
1:D:1659:ASP:HA	1:D:1662:TYR:CE2	2.36	0.61
1:D:380:UNK:O	1:D:383:UNK:N	2.34	0.61
1:D:586:UNK:HA	1:D:671:VAL:O	2.00	0.61
2:E:1305:UNK:O	2:E:1306:UNK:C	2.49	0.61
2:E:1397:UNK:O	2:E:1398:UNK:C	2.49	0.61
2:E:159:ILE:HD12	2:E:501:ILE:HG21	1.82	0.61
2:E:504:PHE:HA	2:E:529:VAL:HG21	1.83	0.61
2:E:56:THR:N	2:E:57:PRO:CD	2.64	0.61
1:G:1241:SER:C	1:G:1243:VAL:H	2.04	0.61
1:G:1260:MET:HB3	1:G:1261:PHE:CD2	2.36	0.61
1:G:1342:GLU:N	1:G:1345:ASN:HB2	2.16	0.61
1:G:1354:GLU:C	1:G:1356:PHE:N	2.54	0.61
1:G:374:UNK:O	1:G:375:UNK:C	2.49	0.61
1:G:468:UNK:O	1:G:470:UNK:N	2.34	0.61
2:H:63:LYS:HD2	2:H:125:ASN:ND2	2.16	0.61
2:H:1709:ILE:O	2:H:1771:LEU:HD13	2.01	0.61
2:H:71:LEU:O	2:H:72:VAL:HG13	2.01	0.61
1:A:1139:GLU:CD	1:A:1139:GLU:N	2.54	0.60
1:A:1455:ARG:HG3	1:A:1455:ARG:HH11	1.65	0.60
1:A:1553:GLU:HB2	1:A:1644:PHE:HE2	1.66	0.60
1:A:1659:ASP:HA	1:A:1662:TYR:CE2	2.36	0.60
1:A:1743:SER:O	1:A:1744:TYR:CB	2.48	0.60
1:A:716:ASP:C	1:A:719:GLN:HB3	2.20	0.60
1:D:1139:GLU:CD	1:D:1139:GLU:N	2.53	0.60
1:D:1194:ASN:O	1:D:1195:ALA:HB2	1.99	0.60
1:D:1475:GLU:OE2	1:D:1479:SER:HA	2.01	0.60
1:D:1494:HIS:O	1:D:1497:ALA:HB3	2.00	0.60
1:D:525:UNK:O	1:D:527:UNK:N	2.34	0.60
1:D:796:LEU:O	1:D:800:LEU:HD23	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:910:THR:OG1	1:D:911:PRO:HD2	2.01	0.60
2:E:2040:UNK:HA	2:E:2043:UNK:CB	2.31	0.60
2:E:444:VAL:O	2:E:446:ASN:N	2.33	0.60
1:G:1060:ILE:HD12	1:G:1060:ILE:C	2.20	0.60
1:G:1418:VAL:HG12	1:G:1419:PRO:HA	1.83	0.60
1:G:1448:ARG:HD2	1:G:1448:ARG:O	2.01	0.60
1:G:1551:LYS:O	1:G:1553:GLU:N	2.34	0.60
1:G:1591:TRP:HA	1:G:1594:ASN:HD22	1.65	0.60
1:G:1688:PHE:O	1:G:1690:ASN:N	2.34	0.60
1:G:368:UNK:C	1:G:370:UNK:N	2.63	0.60
2:H:209:PHE:CE2	2:H:213:LEU:HD22	2.36	0.60
2:H:351:ASP:HA	2:H:354:ASN:HD22	1.65	0.60
2:H:514:VAL:O	2:H:517:HIS:HB3	2.00	0.60
1:A:1082:GLU:HA	1:A:1085:ASP:OD1	2.01	0.60
1:A:1541:PHE:HE2	1:A:1554:SER:HG	1.47	0.60
1:A:428:UNK:C	1:A:430:UNK:N	2.62	0.60
1:A:807:LYS:C	1:A:807:LYS:HD3	2.21	0.60
2:B:144:ALA:C	2:B:146:PHE:N	2.54	0.60
2:B:1676:MET:O	2:B:1678:MET:N	2.34	0.60
2:B:1773:ALA:O	2:B:1775:GLN:N	2.34	0.60
2:B:41:LEU:H	2:B:42:PRO:CD	2.14	0.60
2:E:1680:LEU:O	2:E:1683:THR:N	2.34	0.60
2:E:1734:SER:O	2:E:1737:ILE:O	2.19	0.60
2:E:209:PHE:CE2	2:E:213:LEU:HD22	2.36	0.60
2:E:63:LYS:HD2	2:E:125:ASN:CG	2.21	0.60
1:G:1133:PRO:O	1:G:1134:PHE:CD1	2.54	0.60
1:G:1240:VAL:HG13	1:G:1242:GLU:HB3	1.83	0.60
1:G:1302:VAL:HG23	1:G:1303:GLY:N	2.15	0.60
1:G:1320:LEU:HG	1:G:1321:SER:N	2.17	0.60
1:G:1351:ASN:O	1:G:1353:LEU:O	2.19	0.60
1:G:1538:VAL:O	1:G:1539:ALA:HB3	2.01	0.60
1:G:586:UNK:CB	1:G:671:VAL:N	2.63	0.60
1:G:950:THR:O	1:G:954:ARG:HG2	2.01	0.60
2:H:46:GLU:HG3	2:H:51:ASP:CB	2.27	0.60
1:A:1241:SER:C	1:A:1243:VAL:H	2.03	0.60
1:A:1459:ILE:HG13	1:A:1460:LYS:H	1.65	0.60
1:A:1473:GLU:O	1:A:1474:ALA:C	2.39	0.60
1:A:1562:LYS:C	1:A:1564:LEU:H	2.05	0.60
2:B:1864:ALA:O	2:B:1866:PHE:N	2.33	0.60
2:B:25:ALA:O	2:B:29:ILE:HB	2.00	0.60
2:B:63:LYS:HD2	2:B:125:ASN:CG	2.22	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1038:GLU:OE1	1:D:1045:PHE:HA	2.01	0.60
1:D:1131:LEU:O	1:D:1173:LEU:HB2	2.01	0.60
1:D:1354:GLU:C	1:D:1356:PHE:N	2.53	0.60
1:D:1426:LEU:CD1	1:D:1650:GLY:HA3	2.31	0.60
1:D:525:UNK:O	1:D:528:UNK:N	2.34	0.60
1:D:552:UNK:O	1:D:555:UNK:N	2.34	0.60
1:D:679:LEU:O	1:D:679:LEU:HD13	2.01	0.60
1:D:905:LEU:O	1:D:908:LEU:N	2.34	0.60
2:E:1703:GLY:O	2:E:1704:PHE:CB	2.49	0.60
2:E:1703:GLY:O	2:E:1704:PHE:HD1	1.85	0.60
2:E:310:CYS:CB	2:E:432:LEU:HD11	2.31	0.60
1:G:1020:VAL:HG11	1:G:1400:ILE:HB	1.83	0.60
1:G:1114:TYR:OH	1:G:1194:ASN:HA	2.01	0.60
1:G:1216:LEU:O	1:G:1217:VAL:C	2.39	0.60
1:G:752:ILE:HA	1:G:761:LEU:CD2	2.24	0.60
2:H:1329:UNK:O	2:H:1333:UNK:CB	2.49	0.60
2:H:1291:UNK:CB	2:H:1369:UNK:H	2.14	0.60
2:H:25:ALA:HB1	2:H:65:LEU:HD11	1.82	0.60
2:H:617:UNK:O	2:H:652:UNK:O	2.19	0.60
1:A:1302:VAL:HG23	1:A:1303:GLY:N	2.16	0.60
1:A:1364:GLU:C	1:A:1366:SER:H	2.04	0.60
1:A:678:VAL:HG13	1:A:767:ALA:O	2.01	0.60
1:A:710:PHE:HD2	1:A:711:SER:H	1.50	0.60
1:A:899:LYS:C	1:A:901:MET:N	2.54	0.60
2:B:1295:UNK:C	2:B:1297:UNK:N	2.63	0.60
2:B:1789:PHE:O	2:B:1792:LEU:N	2.35	0.60
2:B:1883:GLY:HA2	2:B:1894:GLU:CD	2.22	0.60
1:D:1184:LEU:HD22	1:D:1341:PHE:CD2	2.31	0.60
1:D:1276:GLN:O	1:D:1279:PHE:HD2	1.84	0.60
1:D:1326:ILE:HG13	1:D:1388:MET:SD	2.42	0.60
1:D:1419:PRO:HD3	1:D:1646:PHE:HD1	1.66	0.60
1:D:1697:LEU:N	1:D:1697:LEU:HD12	2.09	0.60
2:E:1173:UNK:CB	2:E:1180:UNK:HA	2.31	0.60
2:E:1676:MET:O	2:E:1678:MET:N	2.34	0.60
2:E:1770:LEU:C	2:E:1770:LEU:HD23	2.22	0.60
1:G:1041:ALA:HB1	1:G:1042:PHE:CE1	2.36	0.60
1:G:1232:TYR:O	1:G:1234:MET:N	2.33	0.60
1:G:1389:GLN:O	1:G:1390:ALA:HB3	2.01	0.60
1:G:1420:ALA:O	1:G:1421:PRO:C	2.40	0.60
1:G:807:LYS:HD3	1:G:807:LYS:C	2.21	0.60
1:A:1111:PHE:HB3	1:A:1114:TYR:CD1	2.37	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1144:PHE:O	1:A:1148:HIS:N	2.33	0.60
1:A:1253:GLY:O	1:A:1254:VAL:O	2.18	0.60
1:A:1340:SER:C	1:A:1341:PHE:O	2.34	0.60
1:A:1717:ASP:O	1:A:1719:LEU:N	2.34	0.60
1:A:893:VAL:C	1:A:895:THR:H	2.04	0.60
2:B:197:GLU:C	2:B:199:ILE:H	2.05	0.60
2:B:56:THR:N	2:B:57:PRO:CD	2.64	0.60
1:D:1299:LYS:HZ3	1:D:1323:LYS:NZ	1.99	0.60
1:D:1403:ILE:C	1:D:1655:VAL:HG22	2.21	0.60
1:D:1701:LYS:HE3	1:D:1701:LYS:N	2.17	0.60
1:D:644:UNK:O	1:D:646:UNK:N	2.35	0.60
2:E:1377:UNK:HA	2:E:1391:UNK:HA	1.83	0.60
2:E:1778:GLN:HE22	2:E:1834:ARG:HD3	1.66	0.60
2:E:1812:TYR:C	2:E:1814:ALA:H	2.04	0.60
2:E:272:GLY:HA3	2:E:276:GLY:O	2.00	0.60
1:G:1036:ARG:NE	1:G:1037:TRP:N	2.49	0.60
1:G:1112:ASN:ND2	1:G:1117:GLU:O	2.35	0.60
1:G:1422:GLY:C	1:G:1425:ILE:HB	2.22	0.60
1:G:1589:GLY:HA2	1:G:1592:MET:HE3	1.84	0.60
1:G:899:LYS:C	1:G:901:MET:N	2.54	0.60
2:H:1605:UNK:C	2:H:1607:UNK:H2	2.14	0.60
2:H:1834:ARG:NH1	2:H:1834:ARG:HG3	2.16	0.60
2:H:1916:PHE:O	2:H:1917:ILE:HD13	2.02	0.60
1:A:1351:ASN:O	1:A:1353:LEU:O	2.20	0.60
1:A:655:UNK:C	1:A:657:UNK:N	2.61	0.60
1:A:705:VAL:HG11	1:A:718:TYR:CE2	2.36	0.60
2:B:2040:UNK:HA	2:B:2043:UNK:CB	2.31	0.60
2:B:259:THR:N	2:B:262:GLU:HG3	2.15	0.60
1:D:1000:GLN:C	1:D:1002:LYS:N	2.54	0.60
1:D:1052:GLU:O	1:D:1056:ILE:HG13	2.02	0.60
1:D:1448:ARG:CA	1:D:1451:GLN:HB3	2.31	0.60
1:D:1459:ILE:HG13	1:D:1460:LYS:H	1.66	0.60
1:D:1029:PRO:HG2	1:D:1581:THR:HG23	1.84	0.60
2:E:1715:VAL:CG2	2:E:1770:LEU:H	2.14	0.60
2:E:450:PHE:CD1	2:E:451:ASN:N	2.63	0.60
2:E:467:ASP:C	2:E:469:ARG:H	2.05	0.60
2:E:77:VAL:HG12	2:E:78:GLY:N	2.17	0.60
1:G:1243:VAL:CG1	1:G:1324:ALA:HA	2.29	0.60
1:G:1423:LYS:HG2	1:G:1424:GLY:H	1.65	0.60
1:G:1029:PRO:HD2	1:G:1591:TRP:CH2	2.36	0.60
1:G:839:TYR:CE1	1:G:843:LYS:HE2	2.36	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:1740:THR:O	2:H:1750:LYS:HA	2.02	0.60
1:A:1015:LEU:HD23	1:A:1018:VAL:HG12	1.84	0.60
1:A:1268:GLU:HB3	1:A:1269:PRO:HD2	1.84	0.60
1:A:1208:VAL:O	1:A:1277:GLU:HG2	2.02	0.60
1:A:1408:ALA:H	1:A:1653:ALA:HB2	1.66	0.60
1:A:1456:GLU:H	1:A:1459:ILE:HG13	1.66	0.60
1:A:1573:ILE:HG23	1:A:1624:VAL:CG1	2.31	0.60
1:A:1641:ILE:CD1	1:A:1641:ILE:H	2.01	0.60
1:A:905:LEU:O	1:A:908:LEU:N	2.35	0.60
2:B:1685:LYS:O	2:B:1688:GLN:HB3	2.02	0.60
2:B:1734:SER:O	2:B:1737:ILE:O	2.20	0.60
2:B:289:TRP:HA	2:B:292:PHE:HB3	1.82	0.60
1:D:1039:MET:HE3	1:D:1039:MET:HA	1.84	0.60
1:D:1319:ILE:HA	1:D:1324:ALA:O	2.02	0.60
1:D:1455:ARG:HG3	1:D:1459:ILE:CG2	2.31	0.60
1:D:497:UNK:C	1:D:499:UNK:N	2.61	0.60
1:D:705:VAL:HG11	1:D:718:TYR:CE2	2.37	0.60
2:E:1585:UNK:C	2:E:1587:UNK:N	2.60	0.60
2:E:620:UNK:C	2:E:622:UNK:N	2.63	0.60
2:E:775:UNK:O	2:E:776:UNK:O	2.20	0.60
1:G:385:UNK:O	1:G:388:UNK:CB	2.49	0.60
1:G:544:UNK:O	1:G:548:UNK:N	2.35	0.60
2:H:91:PHE:CZ	2:H:101:ILE:HD11	2.37	0.60
2:H:1591:UNK:C	2:H:1593:UNK:N	2.65	0.60
2:H:2006:UNK:C	2:H:2008:UNK:H	2.14	0.60
2:H:213:LEU:O	2:H:215:ILE:HG13	2.01	0.60
1:A:1240:VAL:HG13	1:A:1242:GLU:HB3	1.83	0.60
1:A:1243:VAL:HG12	1:A:1325:ARG:N	2.16	0.60
1:A:1118:LYS:CE	1:A:1337:GLU:HG3	2.32	0.60
1:A:1448:ARG:CA	1:A:1451:GLN:HB3	2.30	0.60
1:A:1370:THR:HG22	1:A:1613:ASN:O	2.01	0.60
2:B:2049:UNK:O	2:B:2050:UNK:C	2.49	0.60
2:B:504:PHE:HA	2:B:529:VAL:HG21	1.82	0.60
2:B:775:UNK:O	2:B:776:UNK:O	2.19	0.60
1:D:1083:PRO:HG2	1:D:1084:VAL:H	1.67	0.60
1:D:1159:GLU:C	1:D:1166:LYS:HD3	2.21	0.60
1:D:1197:THR:HA	1:D:1200:ILE:CG2	2.32	0.60
1:D:1362:PRO:HA	1:D:1365:MET:CE	2.32	0.60
1:D:1421:PRO:HG2	1:D:1549:ASN:HB2	1.84	0.60
1:D:712:LYS:HE2	1:D:716:ASP:OD2	2.01	0.60
1:D:752:ILE:HA	1:D:761:LEU:CD2	2.23	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:91:PHE:CZ	2:E:101:ILE:HD11	2.37	0.60
2:E:350:GLN:O	2:E:353:VAL:N	2.34	0.60
1:G:1021:VAL:HG11	1:G:1597:LEU:CD1	2.32	0.60
1:G:1657:HIS:CG	1:G:1658:PRO:HD2	2.36	0.60
2:H:1346:UNK:O	2:H:1348:UNK:N	2.35	0.60
2:H:156:LEU:HD12	2:H:500:HIS:HB2	1.84	0.60
2:H:1676:MET:O	2:H:1678:MET:N	2.35	0.60
2:H:1689:ASP:HA	2:H:1692:ASN:HB2	1.83	0.60
2:H:1695:ASP:CG	2:H:1705:SER:HB2	2.22	0.60
2:H:310:CYS:CB	2:H:432:LEU:HD11	2.31	0.60
1:A:1105:LEU:HB3	1:A:1111:PHE:CE2	2.36	0.60
1:A:1191:THR:HB	1:A:1193:TRP:CZ3	2.37	0.60
1:A:1257:LEU:HD23	1:A:1257:LEU:O	2.02	0.60
1:A:1448:ARG:O	1:A:1448:ARG:HD2	2.01	0.60
1:A:1307:THR:HG21	1:A:1586:GLY:HA2	1.82	0.60
2:B:1737:ILE:HD13	2:B:1738:PHE:H	1.66	0.60
2:B:1834:ARG:NH1	2:B:1834:ARG:HG3	2.17	0.60
2:B:1882:THR:HB	2:B:1885:LEU:HD21	1.84	0.60
2:B:1884:TRP:HB2	2:B:1892:ASN:HD22	1.65	0.60
1:D:1020:VAL:HG11	1:D:1400:ILE:HB	1.83	0.60
1:D:1041:ALA:HB1	1:D:1042:PHE:CE1	2.36	0.60
1:D:1067:LEU:CD2	1:D:1074:GLY:N	2.65	0.60
1:D:1341:PHE:O	1:D:1343:PHE:N	2.35	0.60
1:D:1553:GLU:C	1:D:1555:ALA:H	2.05	0.60
1:D:574:UNK:C	1:D:576:UNK:N	2.63	0.60
1:D:655:UNK:C	1:D:657:UNK:N	2.61	0.60
1:D:925:ASP:C	1:D:926:LEU:HD23	2.22	0.60
2:E:1878:VAL:HB	2:E:1898:TYR:CE1	2.37	0.60
2:E:2049:UNK:O	2:E:2050:UNK:C	2.50	0.60
1:G:1223:PHE:CD1	1:G:1231:PRO:HB3	2.36	0.60
1:G:1364:GLU:C	1:G:1366:SER:H	2.05	0.60
1:G:1409:THR:O	1:G:1409:THR:HG23	2.02	0.60
1:G:905:LEU:HA	1:G:908:LEU:HB3	1.84	0.60
2:H:1377:UNK:HA	2:H:1391:UNK:HA	1.83	0.60
2:H:197:GLU:C	2:H:199:ILE:H	2.05	0.60
2:H:33:LEU:O	2:H:37:PHE:HB2	2.02	0.60
2:H:159:ILE:HD12	2:H:501:ILE:HG21	1.84	0.60
1:A:1080:THR:O	1:A:1081:LYS:C	2.40	0.60
1:A:1118:LYS:HG3	1:A:1120:GLU:HG2	1.84	0.60
1:A:1194:ASN:O	1:A:1195:ALA:HB2	2.01	0.60
1:A:1208:VAL:HG12	1:A:1286:TRP:CH2	2.37	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1421:PRO:HG2	1:A:1549:ASN:HB2	1.84	0.60
1:A:1489:ARG:O	1:A:1493:ILE:HG23	2.02	0.60
1:A:1532:THR:O	1:A:1534:ASP:N	2.34	0.60
1:A:529:UNK:O	1:A:533:UNK:N	2.35	0.60
2:B:1305:UNK:O	2:B:1306:UNK:C	2.50	0.60
2:B:1346:UNK:O	2:B:1348:UNK:N	2.35	0.60
2:B:1720:HIS:HB3	2:B:1763:THR:HG23	1.84	0.60
2:B:1752:PHE:O	2:B:1753:LYS:O	2.20	0.60
2:B:1764:PHE:O	2:B:1765:ARG:HB3	2.02	0.60
1:D:1168:LEU:HD22	1:D:1169:LYS:N	2.13	0.60
1:D:1320:LEU:HG	1:D:1321:SER:N	2.17	0.60
1:D:1743:SER:O	1:D:1744:TYR:CB	2.49	0.60
1:D:791:ALA:O	1:D:795:MET:N	2.32	0.60
2:E:197:GLU:C	2:E:199:ILE:H	2.04	0.60
2:E:213:LEU:O	2:E:215:ILE:HG13	2.02	0.60
1:G:1038:GLU:OE1	1:G:1045:PHE:HA	2.02	0.60
1:G:1082:GLU:HA	1:G:1085:ASP:OD1	2.02	0.60
1:G:1421:PRO:HG2	1:G:1549:ASN:HB2	1.83	0.60
1:G:1524:GLY:O	1:G:1527:ALA:HB3	2.02	0.60
1:G:1677:VAL:C	1:G:1679:ALA:H	2.05	0.60
1:G:1062:TYR:CE2	1:G:1693:ILE:HD12	2.31	0.60
2:H:1882:THR:HB	2:H:1885:LEU:HD21	1.84	0.60
2:H:56:THR:CG2	2:H:59:GLU:HG3	2.25	0.60
1:A:1067:LEU:HD22	1:A:1067:LEU:C	2.22	0.59
1:A:1145:LYS:O	1:A:1148:HIS:HB3	2.01	0.59
1:A:1144:PHE:HA	1:A:1147:GLN:HB2	1.84	0.59
1:A:1705:PRO:HG2	1:A:1706:TYR:H	1.67	0.59
1:A:715:THR:HG21	1:A:1364:GLU:OE2	2.02	0.59
2:B:2011:UNK:C	2:B:2013:UNK:N	2.61	0.59
2:B:418:ASN:ND2	2:B:418:ASN:N	2.50	0.59
2:B:273:HIS:HB2	2:B:490:TRP:HZ3	1.67	0.59
1:D:1222:ALA:O	1:D:1225:ALA:HB3	2.01	0.59
1:D:1370:THR:HG22	1:D:1613:ASN:O	2.02	0.59
1:D:753:TYR:CD2	1:D:809:GLN:HG3	2.36	0.59
2:E:1346:UNK:O	2:E:1348:UNK:N	2.35	0.59
2:E:1370:UNK:O	2:E:1371:UNK:CB	2.50	0.59
2:E:299:ALA:O	2:E:302:VAL:HB	2.02	0.59
2:E:31:SER:O	2:E:33:LEU:N	2.34	0.59
2:E:39:LYS:O	2:E:42:PRO:HD2	2.02	0.59
2:E:593:UNK:O	2:E:595:UNK:N	2.34	0.59
1:G:1238:VAL:HA	1:G:1721:ARG:H	1.67	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1743:SER:O	1:G:1744:TYR:HB3	2.02	0.59
1:G:586:UNK:HA	1:G:671:VAL:O	2.01	0.59
1:G:930:LEU:O	1:G:933:VAL:HG23	2.01	0.59
2:H:1696:ASN:O	2:H:1700:ASP:HB2	2.01	0.59
2:H:1909:THR:HG21	2:H:1927:LEU:CD1	2.31	0.59
2:H:49:ALA:N	2:H:118:LYS:NZ	2.50	0.59
1:A:1132:GLU:N	1:A:1133:PRO:CD	2.64	0.59
1:A:1258:ARG:HG2	1:A:1263:ASP:OD2	2.02	0.59
1:A:1464:GLU:HA	1:A:1467:LEU:CD1	2.27	0.59
1:A:1541:PHE:CG	1:A:1576:PHE:HE1	2.19	0.59
1:A:380:UNK:O	1:A:383:UNK:N	2.35	0.59
1:A:769:ILE:HB	1:A:823:ILE:HD11	1.83	0.59
1:A:808:LYS:CA	1:A:808:LYS:HE3	2.29	0.59
1:A:910:THR:OG1	1:A:911:PRO:HD2	2.01	0.59
2:B:1703:GLY:O	2:B:1704:PHE:HD1	1.85	0.59
2:B:1720:HIS:C	2:B:1721:PHE:CD1	2.75	0.59
2:B:2001:UNK:C	2:B:2003:UNK:N	2.66	0.59
2:B:33:LEU:O	2:B:37:PHE:HB2	2.02	0.59
2:B:71:LEU:O	2:B:72:VAL:HG13	2.02	0.59
1:D:1119:LYS:CG	1:D:1121:MET:HB2	2.31	0.59
1:D:1236:LYS:O	1:D:1237:TYR:HD1	1.85	0.59
1:D:1362:PRO:O	1:D:1365:MET:HE2	2.02	0.59
1:D:1615:ASP:OD2	1:D:1617:ILE:HG12	2.01	0.59
1:D:1403:ILE:HG23	1:D:1656:VAL:O	2.02	0.59
1:D:1680:ARG:O	1:D:1684:ALA:N	2.35	0.59
2:E:122:LEU:HD23	2:E:123:ILE:N	2.17	0.59
2:E:1724:GLU:O	2:E:1729:ILE:HB	2.02	0.59
2:E:1916:PHE:O	2:E:1917:ILE:HD13	2.02	0.59
2:E:34:GLN:O	2:E:38:ASN:HB3	2.01	0.59
2:E:349:VAL:CG2	2:E:377:LEU:HD13	2.31	0.59
2:E:617:UNK:O	2:E:652:UNK:O	2.19	0.59
1:G:1005:ALA:HB3	1:G:1006:PRO:CD	2.32	0.59
1:G:1011:GLY:O	1:G:1663:GLY:HA3	2.02	0.59
1:G:1351:ASN:ND2	1:G:1353:LEU:O	2.35	0.59
1:G:1362:PRO:O	1:G:1365:MET:HE2	2.02	0.59
1:G:1223:PHE:HD2	1:G:1386:ILE:HD13	1.66	0.59
1:G:574:UNK:C	1:G:576:UNK:N	2.61	0.59
1:G:905:LEU:O	1:G:908:LEU:N	2.35	0.59
1:G:907:GLY:O	1:G:909:LEU:N	2.35	0.59
2:H:261:GLY:HA2	2:H:264:ARG:HG2	1.83	0.59
2:H:704:UNK:HA	2:H:707:UNK:CB	2.32	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1216:LEU:O	1:A:1217:VAL:C	2.39	0.59
1:A:1340:SER:O	1:A:1341:PHE:CB	2.50	0.59
1:A:1354:GLU:C	1:A:1356:PHE:N	2.55	0.59
1:A:1413:LYS:HG2	1:A:1414:ILE:H	1.66	0.59
1:A:689:GLY:HA2	1:A:692:VAL:HB	1.84	0.59
1:A:839:TYR:CE1	1:A:843:LYS:HE2	2.37	0.59
2:B:1715:VAL:CG2	2:B:1770:LEU:H	2.14	0.59
2:B:1826:SER:O	2:B:1829:GLU:HB3	2.01	0.59
2:B:310:CYS:HB3	2:B:432:LEU:HD11	1.83	0.59
2:B:366:VAL:CG2	2:B:381:GLY:HA3	2.25	0.59
2:B:504:PHE:HA	2:B:529:VAL:HG23	1.85	0.59
2:E:1874:VAL:HG22	2:E:1928:GLN:NE2	2.16	0.59
2:E:240:LEU:H	2:E:240:LEU:HD12	1.66	0.59
1:G:1067:LEU:CD2	1:G:1074:GLY:N	2.64	0.59
2:H:1691:TRP:O	2:H:1692:ASN:C	2.39	0.59
1:A:1099:GLU:CG	1:A:1100:HIS:H	1.99	0.59
1:A:1112:ASN:ND2	1:A:1117:GLU:O	2.34	0.59
1:A:1197:THR:HA	1:A:1200:ILE:CG2	2.32	0.59
1:A:1223:PHE:CD1	1:A:1231:PRO:HB3	2.37	0.59
1:A:1240:VAL:O	1:A:1242:GLU:N	2.35	0.59
1:A:1348:ALA:O	1:A:1349:THR:C	2.40	0.59
1:A:1376:PHE:CD2	1:A:1584:PRO:HD2	2.36	0.59
2:B:156:LEU:HD12	2:B:500:HIS:HB2	1.84	0.59
2:B:1715:VAL:HG13	2:B:1716:ASN:H	1.67	0.59
2:B:346:GLN:O	2:B:348:GLN:N	2.35	0.59
2:B:351:ASP:HA	2:B:354:ASN:HD22	1.67	0.59
1:D:1076:VAL:HG21	1:D:1087:LYS:HA	1.85	0.59
1:D:1286:TRP:O	1:D:1288:ASN:N	2.36	0.59
1:D:1389:GLN:O	1:D:1390:ALA:HB3	2.01	0.59
1:D:1420:ALA:O	1:D:1421:PRO:C	2.40	0.59
1:D:826:MET:HG3	1:D:867:ALA:H	1.68	0.59
1:D:877:LEU:O	1:D:878:MET:CB	2.47	0.59
2:E:98:GLY:C	2:E:100:ASP:H	2.05	0.59
2:E:49:ALA:N	2:E:118:LYS:NZ	2.50	0.59
2:E:1418:UNK:C	2:E:1420:UNK:N	2.65	0.59
2:E:2011:UNK:C	2:E:2013:UNK:N	2.61	0.59
1:G:1280:ILE:H	1:G:1280:ILE:HD12	1.63	0.59
1:G:1319:ILE:HA	1:G:1324:ALA:O	2.02	0.59
1:G:1541:PHE:O	1:G:1542:HIS:CB	2.49	0.59
1:G:1743:SER:O	1:G:1744:TYR:CB	2.49	0.59
1:G:792:HIS:O	1:G:796:LEU:HD23	2.02	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:769:ILE:HB	1:G:823:ILE:HD11	1.83	0.59
1:G:910:THR:OG1	1:G:911:PRO:HD2	2.02	0.59
2:H:1720:HIS:HB3	2:H:1763:THR:HG23	1.84	0.59
2:H:1778:GLN:HE22	2:H:1834:ARG:HD3	1.66	0.59
2:H:2001:UNK:C	2:H:2003:UNK:N	2.65	0.59
2:H:29:ILE:C	2:H:31:SER:N	2.56	0.59
2:H:319:LEU:CD2	2:H:335:PRO:HG3	2.32	0.59
2:H:267:LEU:HG	2:H:457:ILE:CD1	2.33	0.59
1:A:1067:LEU:CD2	1:A:1074:GLY:N	2.65	0.59
1:A:1693:ILE:HG13	1:A:1694:TYR:N	2.17	0.59
1:A:733:ILE:CD1	1:A:761:LEU:HD13	2.33	0.59
2:B:767:UNK:C	2:B:769:UNK:N	2.65	0.59
1:D:1079:LYS:CD	1:D:1098:LEU:HD21	2.31	0.59
1:D:1105:LEU:HB3	1:D:1111:PHE:CE2	2.37	0.59
1:D:1240:VAL:HG13	1:D:1242:GLU:HB3	1.84	0.59
1:D:1551:LYS:O	1:D:1553:GLU:N	2.34	0.59
1:D:428:UNK:C	1:D:430:UNK:N	2.62	0.59
2:E:1431:UNK:O	2:E:1432:UNK:O	2.20	0.59
2:E:1689:ASP:HA	2:E:1692:ASN:HB2	1.84	0.59
2:E:1919:LEU:O	2:E:1919:LEU:HD23	2.02	0.59
2:E:29:ILE:O	2:E:29:ILE:HD13	2.03	0.59
2:E:404:GLN:HG3	2:E:408:PRO:CG	2.31	0.59
2:E:483:ILE:CG2	2:E:484:ILE:HG23	2.32	0.59
3:F:54:UNK:O	3:F:55:UNK:CB	2.50	0.59
1:G:1105:LEU:HD22	1:G:1111:PHE:CZ	2.38	0.59
1:G:1292:ILE:CG1	1:G:1292:ILE:O	2.49	0.59
1:G:1430:ARG:CG	1:G:1431:GLU:N	2.58	0.59
2:H:1397:UNK:O	2:H:1398:UNK:C	2.49	0.59
2:H:1680:LEU:O	2:H:1683:THR:N	2.35	0.59
2:H:289:TRP:HA	2:H:292:PHE:HB3	1.84	0.59
2:H:775:UNK:O	2:H:776:UNK:O	2.21	0.59
3:I:54:UNK:O	3:I:55:UNK:CB	2.50	0.59
1:A:1141:ALA:O	1:A:1143:GLN:N	2.35	0.59
1:A:1156:GLU:CD	1:A:1156:GLU:C	2.60	0.59
1:A:1236:LYS:O	1:A:1237:TYR:HD1	1.84	0.59
1:A:1247:SER:O	1:A:1301:PRO:HD2	2.02	0.59
1:A:1354:GLU:O	1:A:1358:HIS:HB2	2.01	0.59
1:A:1494:HIS:O	1:A:1497:ALA:HB3	2.02	0.59
1:A:1657:HIS:CG	1:A:1658:PRO:HD2	2.38	0.59
1:A:798:ASN:O	1:A:802:MET:N	2.23	0.59
2:B:1605:UNK:C	2:B:1607:UNK:H2	2.14	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1703:GLY:O	2:B:1721:PHE:HE2	1.86	0.59
2:B:1821:VAL:CG2	2:B:1822:MET:N	2.66	0.59
2:B:299:ALA:O	2:B:302:VAL:HB	2.03	0.59
2:B:29:ILE:HD13	2:B:29:ILE:O	2.02	0.59
1:D:1294:SER:C	1:D:1296:GLY:H	2.05	0.59
1:D:1618:LEU:HB3	1:D:1623:TYR:HE2	1.67	0.59
1:D:1707:THR:HG23	1:D:1710:LEU:HG	1.85	0.59
1:D:1743:SER:O	1:D:1744:TYR:HB3	2.02	0.59
1:D:493:UNK:O	1:D:494:UNK:C	2.50	0.59
1:D:549:UNK:C	1:D:551:UNK:N	2.65	0.59
2:E:63:LYS:HD2	2:E:125:ASN:ND2	2.17	0.59
2:E:144:ALA:C	2:E:146:PHE:N	2.55	0.59
2:E:1737:ILE:HD13	2:E:1738:PHE:H	1.68	0.59
2:E:1983:UNK:C	2:E:1985:UNK:N	2.64	0.59
2:E:455:ILE:HD12	2:E:469:ARG:CB	2.24	0.59
1:G:1112:ASN:HA	1:G:1114:TYR:HB2	1.84	0.59
1:G:1240:VAL:O	1:G:1242:GLU:N	2.35	0.59
2:H:1581:UNK:O	2:H:1582:UNK:CB	2.51	0.59
2:H:1703:GLY:O	2:H:1704:PHE:CB	2.51	0.59
2:H:1764:PHE:O	2:H:1765:ARG:HB3	2.03	0.59
2:H:1789:PHE:O	2:H:1790:GLU:C	2.41	0.59
2:H:272:GLY:HA3	2:H:276:GLY:O	2.02	0.59
1:A:1110:LEU:HD11	1:A:1188:GLN:N	2.16	0.59
1:A:1202:ASP:O	1:A:1203:ASP:CB	2.51	0.59
1:A:1276:GLN:O	1:A:1279:PHE:HD2	1.86	0.59
1:A:1650:GLY:O	1:A:1651:GLY:O	2.19	0.59
1:A:1743:SER:O	1:A:1744:TYR:HB3	2.01	0.59
1:A:468:UNK:O	1:A:470:UNK:N	2.35	0.59
1:A:928:GLY:O	1:A:930:LEU:N	2.36	0.59
2:B:1878:VAL:HB	2:B:1898:TYR:CE1	2.38	0.59
2:B:286:THR:HG23	2:B:292:PHE:HA	1.83	0.59
1:D:1009:LEU:HD12	1:D:1009:LEU:N	2.17	0.59
1:D:1191:THR:CA	1:D:1193:TRP:CH2	2.86	0.59
1:D:1311:SER:O	1:D:1314:ILE:N	2.34	0.59
1:D:1444:ASN:ND2	1:D:1444:ASN:N	2.49	0.59
1:D:1456:GLU:O	1:D:1460:LYS:HB2	2.02	0.59
1:D:1491:ARG:C	1:D:1493:ILE:H	2.06	0.59
1:D:1604:ILE:HD13	1:D:1604:ILE:N	2.17	0.59
1:D:468:UNK:O	1:D:470:UNK:N	2.35	0.59
1:D:689:GLY:HA2	1:D:692:VAL:HB	1.83	0.59
2:E:1752:PHE:O	2:E:1753:LYS:O	2.20	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:260:PRO:HB2	2:E:286:THR:HB	1.85	0.59
1:G:1076:VAL:HG21	1:G:1087:LYS:HA	1.84	0.59
1:G:1165:VAL:HG23	1:G:1166:LYS:N	2.17	0.59
1:G:1525:ALA:C	1:G:1527:ALA:H	2.05	0.59
1:G:1431:GLU:OE1	1:G:1564:LEU:HD13	2.03	0.59
1:G:549:UNK:C	1:G:551:UNK:N	2.65	0.59
2:H:98:GLY:C	2:H:100:ASP:H	2.05	0.59
2:H:1715:VAL:HG13	2:H:1716:ASN:H	1.65	0.59
2:H:1729:ILE:HG23	2:H:1730:ARG:N	2.11	0.59
2:H:1751:ILE:HG21	2:H:1836:MET:SD	2.43	0.59
1:A:1294:SER:C	1:A:1296:GLY:H	2.05	0.59
1:A:1320:LEU:HG	1:A:1321:SER:N	2.17	0.59
1:A:1188:GLN:NE2	1:A:1352:THR:OG1	2.25	0.59
1:A:368:UNK:C	1:A:370:UNK:N	2.62	0.59
1:A:495:UNK:C	1:A:497:UNK:N	2.64	0.59
1:A:644:UNK:O	1:A:646:UNK:N	2.35	0.59
1:A:858:TRP:HE3	1:A:862:LEU:HB2	1.67	0.59
2:B:1778:GLN:HE22	2:B:1834:ARG:HD3	1.66	0.59
2:B:34:GLN:O	2:B:38:ASN:HB3	2.02	0.59
2:B:95:TYR:H	2:B:96:LEU:HD23	1.67	0.59
1:D:1340:SER:O	1:D:1341:PHE:CB	2.51	0.59
1:D:1362:PRO:HA	1:D:1365:MET:HE1	1.84	0.59
2:E:1720:HIS:HB3	2:E:1763:THR:HG23	1.83	0.59
2:E:1812:TYR:O	2:E:1816:ALA:CB	2.51	0.59
1:G:1190:PRO:HG2	1:G:1379:ALA:HA	1.85	0.59
1:G:1236:LYS:O	1:G:1237:TYR:HD1	1.85	0.59
1:G:1705:PRO:HG2	1:G:1706:TYR:H	1.67	0.59
1:G:644:UNK:O	1:G:646:UNK:N	2.36	0.59
1:G:712:LYS:HE2	1:G:716:ASP:OD2	2.03	0.59
1:G:901:MET:HE3	1:G:905:LEU:HD23	1.85	0.59
2:H:1:MET:CB	2:H:11:LEU:HB2	2.28	0.59
2:H:346:GLN:O	2:H:348:GLN:N	2.35	0.59
2:H:41:LEU:H	2:H:42:PRO:CD	2.15	0.59
2:H:56:THR:N	2:H:57:PRO:CD	2.66	0.59
2:H:593:UNK:O	2:H:595:UNK:N	2.36	0.59
1:A:1026:GLU:O	1:A:1032:SER:HA	2.03	0.59
1:A:1073:THR:CG2	1:A:1074:GLY:N	2.66	0.59
1:A:1084:VAL:O	1:A:1085:ASP:C	2.40	0.59
1:A:1095:THR:HA	1:A:1099:GLU:HB2	1.83	0.59
1:A:1121:MET:O	1:A:1183:ARG:HA	2.02	0.59
1:A:1319:ILE:HD12	1:A:1325:ARG:HA	1.85	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1326:ILE:HG13	1:A:1388:MET:SD	2.42	0.59
1:A:1420:ALA:O	1:A:1421:PRO:C	2.39	0.59
1:A:1456:GLU:O	1:A:1460:LYS:HB2	2.03	0.59
1:A:1532:THR:OG1	1:A:1535:ASP:N	2.35	0.59
1:A:1697:LEU:N	1:A:1697:LEU:HD12	2.11	0.59
1:A:972:SER:O	1:A:973:ALA:HB2	2.03	0.59
2:B:998:UNK:O	2:B:1002:UNK:N	2.35	0.59
2:B:91:PHE:CZ	2:B:101:ILE:HD11	2.37	0.59
2:B:1703:GLY:O	2:B:1704:PHE:CB	2.51	0.59
2:B:467:ASP:C	2:B:469:ARG:H	2.05	0.59
2:B:594:UNK:O	2:B:611:UNK:HA	2.02	0.59
1:D:1165:VAL:HG23	1:D:1166:LYS:N	2.18	0.59
1:D:1339:GLY:C	1:D:1340:SER:O	2.38	0.59
1:D:595:UNK:O	1:D:611:UNK:HA	2.03	0.59
1:D:910:THR:O	1:D:911:PRO:O	2.20	0.59
2:E:1591:UNK:C	2:E:1593:UNK:N	2.66	0.59
2:E:1898:TYR:O	2:E:1902:GLY:HA3	2.03	0.59
1:G:1022:THR:O	1:G:1401:TYR:HE2	1.86	0.59
1:G:1258:ARG:HG2	1:G:1263:ASP:OD2	2.03	0.59
1:G:1294:SER:C	1:G:1296:GLY:H	2.06	0.59
1:G:1573:ILE:HG23	1:G:1624:VAL:CG1	2.33	0.59
1:G:1592:MET:O	1:G:1596:ALA:N	2.35	0.59
1:G:733:ILE:CD1	1:G:761:LEU:HD13	2.33	0.59
1:G:905:LEU:N	1:G:905:LEU:HD22	2.15	0.59
1:G:925:ASP:C	1:G:926:LEU:HD23	2.22	0.59
2:H:1720:HIS:C	2:H:1721:PHE:CD1	2.75	0.59
2:H:862:UNK:HA	2:H:865:UNK:CB	2.33	0.59
1:A:1009:LEU:N	1:A:1009:LEU:HD12	2.18	0.59
1:A:1022:THR:HG21	1:A:1388:MET:CE	2.30	0.59
1:A:1203:ASP:C	1:A:1205:ILE:N	2.44	0.59
1:A:1431:GLU:HG3	1:A:1560:MET:HG3	1.85	0.59
1:A:1455:ARG:HG3	1:A:1459:ILE:CG2	2.33	0.59
1:A:1491:ARG:C	1:A:1493:ILE:H	2.05	0.59
1:A:1688:PHE:O	1:A:1690:ASN:N	2.35	0.59
1:A:717:TYR:HD2	1:A:718:TYR:CD1	2.20	0.59
2:B:213:LEU:O	2:B:215:ILE:HG13	2.02	0.59
2:B:261:GLY:HA2	2:B:264:ARG:HG2	1.84	0.59
3:C:54:UNK:O	3:C:55:UNK:CB	2.50	0.59
1:D:1189:ILE:HG21	1:D:1377:MET:CB	2.09	0.59
1:D:1247:SER:O	1:D:1301:PRO:HD2	2.03	0.59
1:D:752:ILE:CA	1:D:761:LEU:HD23	2.26	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:132:MET:O	2:E:133:ALA:HB3	2.03	0.59
2:E:1486:UNK:O	2:E:1510:UNK:HA	2.03	0.59
2:E:199:ILE:HG23	2:E:200:ARG:N	2.15	0.59
2:E:462:THR:HB	2:E:482:CYS:HB2	1.84	0.59
2:E:248:HIS:HB3	2:E:529:VAL:HG11	1.85	0.59
2:E:998:UNK:O	2:E:1002:UNK:N	2.36	0.59
1:G:1203:ASP:H	1:G:1205:ILE:HG13	1.66	0.59
1:G:1299:LYS:HZ1	1:G:1323:LYS:HZ3	1.50	0.59
1:G:1406:MET:HE3	1:G:1430:ARG:HD2	1.85	0.59
1:G:1641:ILE:HG12	1:G:1652:GLN:HE22	1.67	0.59
1:G:1693:ILE:HG13	1:G:1694:TYR:N	2.18	0.59
1:G:495:UNK:C	1:G:497:UNK:N	2.64	0.59
1:G:689:GLY:HA2	1:G:692:VAL:HB	1.83	0.59
1:G:687:SER:HB2	1:G:899:LYS:HE3	1.85	0.59
2:H:122:LEU:HD23	2:H:123:ILE:N	2.18	0.59
2:H:350:GLN:O	2:H:353:VAL:N	2.35	0.59
1:A:1342:GLU:N	1:A:1345:ASN:HB2	2.17	0.58
1:A:1454:THR:HG21	1:A:1508:TRP:CZ3	2.38	0.58
1:A:815:ILE:O	1:A:815:ILE:HG22	2.02	0.58
1:A:930:LEU:O	1:A:933:VAL:HG23	2.03	0.58
2:B:1066:UNK:O	2:B:1067:UNK:O	2.21	0.58
2:B:1680:LEU:O	2:B:1683:THR:N	2.36	0.58
2:B:511:GLY:O	2:B:513:GLY:N	2.29	0.58
1:D:1156:GLU:N	1:D:1171:ALA:HB2	2.18	0.58
1:D:1408:ALA:H	1:D:1653:ALA:HB2	1.67	0.58
1:D:710:PHE:HD2	1:D:711:SER:H	1.51	0.58
2:E:319:LEU:HD21	2:E:335:PRO:HG3	1.85	0.58
2:E:620:UNK:O	2:E:622:UNK:N	2.36	0.58
1:G:1000:GLN:C	1:G:1002:LYS:N	2.54	0.58
1:G:1083:PRO:HG2	1:G:1084:VAL:H	1.68	0.58
1:G:1191:THR:CA	1:G:1193:TRP:CH2	2.86	0.58
1:G:1326:ILE:HD12	1:G:1326:ILE:N	2.16	0.58
1:G:1456:GLU:H	1:G:1459:ILE:HG13	1.68	0.58
1:G:1502:ARG:O	1:G:1505:GLN:N	2.36	0.58
1:G:443:UNK:HA	1:G:722:TYR:CE2	2.38	0.58
1:G:794:ILE:HA	1:G:798:ASN:ND2	2.18	0.58
2:H:1305:UNK:O	2:H:1306:UNK:C	2.51	0.58
1:A:1067:LEU:C	1:A:1069:GLY:H	2.05	0.58
1:A:1418:VAL:HG12	1:A:1419:PRO:HA	1.84	0.58
1:A:889:GLU:C	1:A:893:VAL:HA	2.24	0.58
1:A:925:ASP:C	1:A:926:LEU:HD23	2.23	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1173:UNK:CB	2:B:1180:UNK:HA	2.32	0.58
2:B:480:VAL:O	2:B:484:ILE:HG12	2.02	0.58
2:B:159:ILE:HD12	2:B:501:ILE:HG21	1.84	0.58
1:D:1191:THR:HB	1:D:1193:TRP:CZ3	2.37	0.58
1:D:1693:ILE:HG13	1:D:1694:TYR:N	2.17	0.58
1:D:749:ILE:HD11	1:D:802:MET:HE2	1.84	0.58
1:D:858:TRP:HE3	1:D:862:LEU:HB2	1.67	0.58
2:E:1049:UNK:C	2:E:1051:UNK:N	2.65	0.58
2:E:1720:HIS:HA	2:E:1763:THR:HA	1.85	0.58
2:E:1901:ALA:HA	2:E:1905:ARG:NH2	2.18	0.58
1:G:1067:LEU:CG	1:G:1068:LYS:N	2.65	0.58
1:G:1178:ALA:O	1:G:1179:LEU:CD2	2.51	0.58
1:G:1286:TRP:HD1	1:G:1290:LEU:HD13	1.68	0.58
1:G:1334:ASP:CG	1:G:1335:PHE:H	2.05	0.58
1:G:1362:PRO:HA	1:G:1365:MET:CE	2.33	0.58
1:G:1431:GLU:HG3	1:G:1560:MET:HG3	1.84	0.58
1:G:1408:ALA:HB2	1:G:1652:GLN:C	2.23	0.58
2:H:1776:PHE:O	2:H:1779:PRO:CD	2.50	0.58
2:H:2020:UNK:C	2:H:2022:UNK:N	2.64	0.58
2:H:515:LEU:O	2:H:515:LEU:HD12	2.02	0.58
2:B:1291:UNK:CB	2:B:1369:UNK:H	2.15	0.58
2:B:1975:UNK:O	2:B:1976:UNK:CB	2.51	0.58
2:B:272:GLY:HA3	2:B:276:GLY:O	2.02	0.58
2:B:339:LEU:O	2:B:378:VAL:HA	2.03	0.58
2:B:515:LEU:O	2:B:515:LEU:HD12	2.03	0.58
1:D:1121:MET:O	1:D:1183:ARG:HA	2.03	0.58
2:E:144:ALA:C	2:E:146:PHE:H	2.06	0.58
2:E:1691:TRP:O	2:E:1692:ASN:C	2.42	0.58
2:E:503:ASP:C	2:E:505:GLY:H	2.06	0.58
2:E:583:UNK:O	2:E:584:UNK:CB	2.50	0.58
2:E:71:LEU:O	2:E:72:VAL:HG13	2.02	0.58
1:G:1009:LEU:HD12	1:G:1009:LEU:N	2.18	0.58
1:G:1029:PRO:N	1:G:1193:TRP:HE1	2.00	0.58
1:G:1354:GLU:O	1:G:1358:HIS:HB2	2.03	0.58
1:G:701:ALA:O	1:G:730:SER:HA	2.04	0.58
1:G:791:ALA:O	1:G:794:ILE:HG22	2.04	0.58
2:H:29:ILE:O	2:H:29:ILE:HD13	2.03	0.58
2:H:34:GLN:O	2:H:38:ASN:HB3	2.03	0.58
2:H:594:UNK:O	2:H:611:UNK:HA	2.03	0.58
2:H:998:UNK:O	2:H:1002:UNK:N	2.36	0.58
1:A:1544:THR:OG1	1:A:1546:THR:CG2	2.51	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1021:VAL:HG11	1:A:1597:LEU:CD1	2.34	0.58
1:A:1615:ASP:OD2	1:A:1617:ILE:HG12	2.02	0.58
2:B:1581:UNK:O	2:B:1582:UNK:CB	2.51	0.58
2:B:1691:TRP:O	2:B:1692:ASN:C	2.42	0.58
2:B:1916:PHE:O	2:B:1917:ILE:HD13	2.02	0.58
2:B:310:CYS:CB	2:B:432:LEU:HD11	2.33	0.58
1:D:1029:PRO:N	1:D:1193:TRP:HE1	2.01	0.58
1:D:1084:VAL:O	1:D:1085:ASP:C	2.39	0.58
1:D:1157:ILE:HG22	1:D:1158:PRO:CD	2.23	0.58
1:D:1242:GLU:O	1:D:1243:VAL:HG13	2.03	0.58
1:D:1403:ILE:HD11	1:D:1529:TYR:OH	2.03	0.58
1:D:1538:VAL:HA	1:D:1573:ILE:O	2.03	0.58
1:D:1541:PHE:O	1:D:1542:HIS:CB	2.50	0.58
1:D:733:ILE:CD1	1:D:761:LEU:HD13	2.34	0.58
1:D:761:LEU:HD11	1:D:763:TRP:CE3	2.39	0.58
1:D:775:PRO:O	1:D:776:GLU:CB	2.51	0.58
1:D:858:TRP:O	1:D:861:GLN:HG2	2.03	0.58
2:E:1173:UNK:HA	2:E:1182:UNK:N	2.18	0.58
2:E:1581:UNK:O	2:E:1582:UNK:CB	2.52	0.58
2:E:131:ILE:HG21	2:E:182:VAL:CG2	2.34	0.58
2:E:2040:UNK:C	2:E:2042:UNK:N	2.64	0.58
2:E:25:ALA:HB1	2:E:65:LEU:HD11	1.84	0.58
2:E:480:VAL:O	2:E:484:ILE:HG12	2.03	0.58
1:G:1156:GLU:N	1:G:1171:ALA:HB2	2.19	0.58
1:G:1520:ALA:H	1:G:1521:PRO:CD	2.09	0.58
1:G:1373:ARG:CG	1:G:1547:LYS:HD3	2.08	0.58
1:G:681:THR:HG22	1:G:771:PHE:O	2.03	0.58
1:G:858:TRP:O	1:G:861:GLN:HG2	2.04	0.58
2:H:1166:UNK:C	2:H:1168:UNK:H	2.16	0.58
2:H:1332:UNK:C	2:H:1334:UNK:N	2.60	0.58
2:H:1901:ALA:HA	2:H:1905:ARG:NH2	2.19	0.58
2:H:31:SER:O	2:H:33:LEU:N	2.36	0.58
1:A:1020:VAL:HG11	1:A:1400:ILE:HB	1.84	0.58
1:A:1112:ASN:HA	1:A:1114:TYR:HB2	1.84	0.58
1:A:1133:PRO:O	1:A:1134:PHE:CD1	2.55	0.58
1:A:1238:VAL:HA	1:A:1721:ARG:H	1.68	0.58
1:A:1389:GLN:O	1:A:1390:ALA:HB3	2.02	0.58
1:A:1392:LEU:H	1:A:1392:LEU:CD2	2.16	0.58
1:A:1524:GLY:O	1:A:1527:ALA:HB3	2.04	0.58
1:A:1701:LYS:N	1:A:1701:LYS:HE3	2.18	0.58
1:A:235:UNK:O	1:A:236:UNK:C	2.50	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1322:UNK:C	2:B:1324:UNK:N	2.67	0.58
2:B:1698:PHE:CD1	2:B:1706:ILE:HD11	2.39	0.58
2:B:41:LEU:N	2:B:42:PRO:HD2	2.19	0.58
1:D:1351:ASN:O	1:D:1353:LEU:O	2.22	0.58
1:D:1364:GLU:C	1:D:1366:SER:H	2.07	0.58
1:D:1373:ARG:HG2	1:D:1547:LYS:CD	2.09	0.58
1:D:1454:THR:HG21	1:D:1508:TRP:CZ3	2.37	0.58
1:D:1583:HIS:CD2	1:D:1584:PRO:HA	2.39	0.58
2:E:1882:THR:HB	2:E:1885:LEU:HD21	1.85	0.58
1:G:1026:GLU:O	1:G:1032:SER:HA	2.03	0.58
1:G:1141:ALA:O	1:G:1143:GLN:N	2.36	0.58
1:G:1169:LYS:NZ	1:G:1170:GLY:H	2.01	0.58
1:G:1253:GLY:O	1:G:1254:VAL:O	2.22	0.58
1:G:1325:ARG:HB2	1:G:1389:GLN:HB2	1.84	0.58
1:G:1491:ARG:C	1:G:1493:ILE:H	2.05	0.58
1:G:1532:THR:OG1	1:G:1535:ASP:N	2.36	0.58
1:G:1403:ILE:HG23	1:G:1656:VAL:O	2.04	0.58
1:G:901:MET:CE	1:G:905:LEU:HD23	2.33	0.58
2:H:1789:PHE:CZ	2:H:1818:LEU:HD23	2.38	0.58
2:H:426:PRO:O	2:H:429:SER:HB3	2.02	0.58
1:A:1184:LEU:HD22	1:A:1341:PHE:CD2	2.35	0.58
1:A:1592:MET:O	1:A:1596:ALA:N	2.37	0.58
1:A:858:TRP:O	1:A:861:GLN:HG2	2.04	0.58
1:A:826:MET:HG3	1:A:867:ALA:H	1.69	0.58
1:A:903:PHE:O	1:A:906:LEU:HB3	2.03	0.58
2:B:1874:VAL:HG22	2:B:1928:GLN:NE2	2.17	0.58
2:B:528:ILE:H	2:B:541:TYR:HB2	1.68	0.58
1:D:1342:GLU:N	1:D:1345:ASN:HB2	2.18	0.58
2:E:87:CYS:HA	2:E:90:GLU:CB	2.32	0.58
1:G:1008:GLU:C	1:G:1010:GLU:N	2.56	0.58
1:G:1607:GLY:O	1:G:1610:ASN:ND2	2.36	0.58
2:H:1262:UNK:O	2:H:1263:UNK:C	2.52	0.58
2:H:1752:PHE:O	2:H:1753:LYS:O	2.22	0.58
2:H:242:GLY:HA2	2:H:245:GLN:NE2	2.14	0.58
2:H:450:PHE:CD1	2:H:451:ASN:N	2.64	0.58
2:H:577:UNK:O	2:H:578:UNK:C	2.51	0.58
1:A:1005:ALA:HB3	1:A:1006:PRO:CD	2.33	0.58
1:A:1242:GLU:O	1:A:1243:VAL:HG13	2.03	0.58
1:A:1362:PRO:O	1:A:1365:MET:HE2	2.03	0.58
1:A:1426:LEU:CD1	1:A:1650:GLY:HA3	2.33	0.58
1:A:1539:ALA:HA	1:A:1640:SER:O	2.04	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1607:GLY:O	1:A:1610:ASN:ND2	2.36	0.58
1:A:741:SER:O	1:A:742:LYS:O	2.21	0.58
1:A:775:PRO:O	1:A:776:GLU:CB	2.52	0.58
2:B:1705:SER:O	2:B:1709:ILE:HG12	2.03	0.58
2:B:1776:PHE:O	2:B:1779:PRO:CD	2.52	0.58
2:B:1898:TYR:O	2:B:1902:GLY:HA3	2.03	0.58
2:B:260:PRO:HB2	2:B:286:THR:HB	1.86	0.58
2:B:704:UNK:HA	2:B:707:UNK:CB	2.34	0.58
1:D:1431:GLU:HG3	1:D:1560:MET:HG3	1.85	0.58
1:D:1685:TYR:CE2	2:E:966:UNK:CB	2.85	0.58
1:D:852:ARG:NH1	1:D:856:GLU:OE1	2.37	0.58
2:E:156:LEU:HD12	2:E:500:HIS:HB2	1.84	0.58
2:E:1788:ALA:O	2:E:1792:LEU:HG	2.03	0.58
1:G:1105:LEU:HB3	1:G:1111:PHE:CE2	2.38	0.58
1:G:1162:GLU:OE2	1:G:1162:GLU:N	2.37	0.58
1:G:1202:ASP:O	1:G:1203:ASP:CB	2.51	0.58
1:G:1308:SER:CB	1:G:1590:ALA:H	2.17	0.58
1:G:1188:GLN:NE2	1:G:1352:THR:OG1	2.26	0.58
1:G:1459:ILE:O	1:G:1463:VAL:HG23	2.04	0.58
1:G:1426:LEU:CD1	1:G:1650:GLY:HA3	2.34	0.58
1:G:1002:LYS:HE3	1:G:1670:TYR:OH	2.03	0.58
1:G:1853:UNK:HA	1:G:1857:UNK:CB	2.33	0.58
1:G:493:UNK:O	1:G:495:UNK:N	2.37	0.58
2:H:1173:UNK:HA	2:H:1182:UNK:N	2.19	0.58
2:H:132:MET:O	2:H:133:ALA:HB3	2.04	0.58
2:H:26:SER:O	2:H:29:ILE:HG22	2.03	0.58
2:H:390:ASN:OD1	2:H:393:LEU:HD23	2.04	0.58
2:H:95:TYR:H	2:H:96:LEU:HD23	1.66	0.58
1:A:1029:PRO:N	1:A:1193:TRP:HE1	2.01	0.58
1:A:1109:GLU:C	1:A:1111:PHE:N	2.57	0.58
1:A:1354:GLU:C	1:A:1356:PHE:H	2.05	0.58
1:A:1409:THR:O	1:A:1409:THR:HG23	2.03	0.58
1:A:1690:ASN:O	1:A:1693:ILE:HG12	2.04	0.58
1:A:1705:PRO:HG2	1:A:1706:TYR:CD1	2.39	0.58
1:A:445:UNK:O	1:A:447:UNK:N	2.37	0.58
1:A:493:UNK:O	1:A:495:UNK:N	2.35	0.58
1:A:791:ALA:CA	1:A:794:ILE:HG22	2.33	0.58
1:A:901:MET:CE	1:A:905:LEU:HD23	2.34	0.58
2:B:1695:ASP:CG	2:B:1705:SER:HB2	2.23	0.58
2:B:29:ILE:C	2:B:31:SER:N	2.57	0.58
2:B:444:VAL:O	2:B:446:ASN:N	2.35	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:78:GLY:O	2:B:79:GLN:C	2.42	0.58
1:D:1080:THR:OG1	1:D:1083:PRO:CG	2.51	0.58
1:D:1178:ALA:C	1:D:1179:LEU:CD2	2.72	0.58
1:D:1220:VAL:HG21	1:D:1698:PHE:HD1	1.69	0.58
1:D:1238:VAL:HA	1:D:1721:ARG:H	1.69	0.58
1:D:1677:VAL:C	1:D:1679:ALA:H	2.05	0.58
2:E:1715:VAL:HG13	2:E:1716:ASN:H	1.68	0.58
2:E:1764:PHE:O	2:E:1765:ARG:HB3	2.04	0.58
2:E:1776:PHE:O	2:E:1779:PRO:CD	2.50	0.58
2:E:1778:GLN:HB2	2:E:1779:PRO:CD	2.33	0.58
2:E:408:PRO:HG2	2:E:409:PHE:H	1.67	0.58
2:E:95:TYR:H	2:E:96:LEU:HD23	1.67	0.58
1:G:1122:ILE:HG13	1:G:1122:ILE:O	2.04	0.58
1:G:1642:THR:HA	1:G:1652:GLN:OE1	2.03	0.58
1:G:1697:LEU:HD12	1:G:1697:LEU:N	2.09	0.58
1:G:752:ILE:CA	1:G:761:LEU:HD23	2.26	0.58
1:G:680:ILE:HA	1:G:769:ILE:HG23	1.84	0.58
1:G:972:SER:O	1:G:973:ALA:HB2	2.04	0.58
2:H:1370:UNK:O	2:H:1371:UNK:CB	2.50	0.58
2:H:620:UNK:O	2:H:622:UNK:N	2.36	0.58
1:A:1076:VAL:HG21	1:A:1087:LYS:HA	1.85	0.58
1:A:1208:VAL:HG12	1:A:1286:TRP:CZ3	2.39	0.58
1:A:1286:TRP:O	1:A:1288:ASN:N	2.37	0.58
1:A:1614:VAL:O	1:A:1615:ASP:CB	2.49	0.58
1:A:1677:VAL:C	1:A:1679:ALA:H	2.06	0.58
1:A:443:UNK:HA	1:A:722:TYR:CE2	2.38	0.58
1:A:761:LEU:HD11	1:A:763:TRP:CE3	2.39	0.58
1:A:858:TRP:HA	1:A:861:GLN:NE2	2.19	0.58
2:B:184:VAL:O	2:B:188:ILE:HG12	2.04	0.58
2:B:248:HIS:HB3	2:B:529:VAL:HG11	1.84	0.58
2:B:620:UNK:C	2:B:622:UNK:N	2.63	0.58
1:D:1108:PRO:O	1:D:1109:GLU:HB2	2.04	0.58
1:D:1151:LYS:CE	1:D:1175:ILE:HD13	2.31	0.58
1:D:1319:ILE:HD12	1:D:1325:ARG:HA	1.84	0.58
1:D:1448:ARG:O	1:D:1448:ARG:HD2	2.04	0.58
1:D:1665:ILE:HG22	1:D:1667:GLU:N	2.19	0.58
1:D:1853:UNK:HA	1:D:1857:UNK:CB	2.34	0.58
1:D:908:LEU:O	1:D:913:VAL:HG11	2.03	0.58
1:D:930:LEU:O	1:D:933:VAL:HG23	2.04	0.58
2:E:1193:UNK:HA	2:E:1201:UNK:O	2.03	0.58
2:E:1250:UNK:O	2:E:1251:UNK:C	2.52	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:1262:UNK:O	2:E:1263:UNK:C	2.51	0.58
2:E:577:UNK:O	2:E:578:UNK:C	2.52	0.58
1:G:1080:THR:O	1:G:1081:LYS:C	2.42	0.58
1:G:1286:TRP:O	1:G:1288:ASN:N	2.37	0.58
1:G:1456:GLU:O	1:G:1460:LYS:HB2	2.04	0.58
2:H:170:PHE:CB	2:H:231:LEU:HD21	2.34	0.58
2:H:1725:LYS:HG2	2:H:1760:THR:OG1	2.04	0.58
2:H:1898:TYR:O	2:H:1902:GLY:HA3	2.04	0.58
2:H:528:ILE:H	2:H:541:TYR:HB2	1.68	0.58
2:H:528:ILE:H	2:H:541:TYR:HB3	1.68	0.58
1:A:1408:ALA:HB2	1:A:1652:GLN:C	2.23	0.58
1:A:1426:LEU:HD13	1:A:1651:GLY:N	2.18	0.58
1:A:717:TYR:O	1:A:719:GLN:N	2.33	0.58
2:B:1591:UNK:C	2:B:1593:UNK:N	2.65	0.58
2:B:384:GLN:O	2:B:385:SER:C	2.43	0.58
2:B:56:THR:CG2	2:B:59:GLU:HG3	2.25	0.58
1:D:1190:PRO:HG2	1:D:1379:ALA:HA	1.85	0.58
1:D:1562:LYS:C	1:D:1564:LEU:H	2.07	0.58
1:D:1541:PHE:CG	1:D:1576:PHE:HE1	2.21	0.58
1:D:1625:LEU:CD1	1:D:1626:TYR:HD1	2.17	0.58
1:D:1658:PRO:O	1:D:1660:TYR:N	2.31	0.58
1:D:495:UNK:C	1:D:497:UNK:N	2.63	0.58
2:E:1698:PHE:HE1	2:E:1828:VAL:CG2	2.17	0.58
2:E:1695:ASP:CG	2:E:1705:SER:HB2	2.23	0.58
2:E:1821:VAL:CG2	2:E:1822:MET:N	2.66	0.58
2:E:1822:MET:CE	2:E:1827:LEU:HA	2.34	0.58
2:E:1834:ARG:HG3	2:E:1834:ARG:NH1	2.17	0.58
2:E:333:GLY:O	2:E:334:VAL:C	2.42	0.58
2:E:528:ILE:H	2:E:541:TYR:HB3	1.69	0.58
1:G:1067:LEU:C	1:G:1067:LEU:HD22	2.21	0.58
1:G:1208:VAL:HG12	1:G:1286:TRP:CH2	2.38	0.58
1:G:1274:ILE:C	1:G:1276:GLN:H	2.07	0.58
1:G:1326:ILE:HG13	1:G:1388:MET:SD	2.44	0.58
1:G:1339:GLY:O	1:G:1341:PHE:O	2.21	0.58
1:G:497:UNK:O	1:G:499:UNK:N	2.36	0.58
1:G:717:TYR:O	1:G:719:GLN:N	2.33	0.58
2:H:1737:ILE:HD13	2:H:1738:PHE:H	1.68	0.58
2:H:1842:VAL:O	2:H:1842:VAL:HG12	2.04	0.58
2:H:267:LEU:HG	2:H:457:ILE:HD12	1.86	0.58
2:H:299:ALA:O	2:H:302:VAL:HB	2.04	0.58
1:A:1159:GLU:C	1:A:1166:LYS:HD3	2.24	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1260:MET:HB3	1:A:1261:PHE:CD2	2.38	0.57
1:A:1471:LYS:HD3	1:A:1471:LYS:O	2.04	0.57
1:A:544:UNK:O	1:A:548:UNK:N	2.36	0.57
1:A:866:GLY:O	1:A:867:ALA:CB	2.51	0.57
1:A:890:LYS:O	1:A:892:GLY:N	2.33	0.57
1:A:959:ILE:O	1:A:963:LEU:HB2	2.03	0.57
2:B:1173:UNK:HA	2:B:1182:UNK:N	2.18	0.57
2:B:1250:UNK:O	2:B:1251:UNK:C	2.52	0.57
2:B:1264:UNK:O	2:B:1266:UNK:N	2.38	0.57
2:B:1725:LYS:HG2	2:B:1760:THR:OG1	2.04	0.57
2:B:1672:GLN:HE21	2:B:1777:THR:HG21	1.69	0.57
2:B:915:UNK:O	2:B:917:UNK:N	2.37	0.57
1:D:1280:ILE:H	1:D:1280:ILE:CD1	2.15	0.57
1:D:1409:THR:HG23	1:D:1409:THR:O	2.04	0.57
1:D:370:UNK:O	1:D:374:UNK:N	2.37	0.57
1:D:679:LEU:H	1:D:679:LEU:HD12	1.68	0.57
1:D:889:GLU:C	1:D:893:VAL:HA	2.24	0.57
2:E:2001:UNK:C	2:E:2003:UNK:N	2.66	0.57
2:E:351:ASP:HA	2:E:354:ASN:HD22	1.68	0.57
2:E:426:PRO:O	2:E:429:SER:HB3	2.04	0.57
1:G:1076:VAL:HG11	1:G:1087:LYS:CA	2.26	0.57
1:G:1132:GLU:N	1:G:1133:PRO:CD	2.66	0.57
1:G:1133:PRO:HD2	1:G:1173:LEU:HD13	1.85	0.57
1:G:1659:ASP:HA	1:G:1662:TYR:CE2	2.39	0.57
1:G:446:UNK:O	1:G:447:UNK:CB	2.52	0.57
2:H:1173:UNK:CB	2:H:1180:UNK:HA	2.34	0.57
2:H:1295:UNK:C	2:H:1297:UNK:N	2.65	0.57
2:H:2011:UNK:C	2:H:2013:UNK:N	2.59	0.57
2:H:367:GLU:CG	2:H:368:ILE:N	2.67	0.57
2:H:678:UNK:O	2:H:682:UNK:N	2.36	0.57
1:A:1191:THR:CA	1:A:1193:TRP:CH2	2.87	0.57
1:A:1538:VAL:HA	1:A:1573:ILE:O	2.04	0.57
1:A:1624:VAL:O	1:A:1625:LEU:HB3	2.03	0.57
1:A:791:ALA:O	1:A:794:ILE:HG22	2.03	0.57
1:A:792:HIS:O	1:A:796:LEU:HD23	2.03	0.57
2:B:1822:MET:CE	2:B:1827:LEU:HA	2.35	0.57
2:B:1919:LEU:HD23	2:B:1919:LEU:O	2.03	0.57
2:B:87:CYS:HA	2:B:90:GLU:CB	2.29	0.57
1:D:1067:LEU:C	1:D:1069:GLY:H	2.06	0.57
1:D:1099:GLU:O	1:D:1101:SER:N	2.37	0.57
1:D:1156:GLU:C	1:D:1156:GLU:CD	2.62	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1260:MET:C	1:D:1261:PHE:HD2	2.07	0.57
1:D:1354:GLU:O	1:D:1358:HIS:HB2	2.04	0.57
1:D:1021:VAL:HG11	1:D:1597:LEU:CD1	2.34	0.57
1:D:1685:TYR:O	1:D:1685:TYR:CD1	2.57	0.57
1:D:446:UNK:O	1:D:447:UNK:CB	2.52	0.57
1:D:448:UNK:O	1:D:450:UNK:N	2.37	0.57
1:D:701:ALA:O	1:D:730:SER:HA	2.05	0.57
1:D:797:THR:O	1:D:800:LEU:N	2.38	0.57
1:D:972:SER:O	1:D:973:ALA:HB2	2.04	0.57
2:E:1322:UNK:C	2:E:1324:UNK:N	2.66	0.57
2:E:41:LEU:H	2:E:42:PRO:CD	2.16	0.57
2:E:94:CYS:SG	2:E:95:TYR:N	2.77	0.57
1:G:1240:VAL:C	1:G:1242:GLU:N	2.58	0.57
1:G:1029:PRO:HG2	1:G:1581:THR:HG23	1.84	0.57
1:G:1618:LEU:HB3	1:G:1623:TYR:HE2	1.69	0.57
1:G:1625:LEU:CD1	1:G:1626:TYR:HD1	2.17	0.57
1:G:803:MET:CE	1:G:822:VAL:HG11	2.34	0.57
1:G:889:GLU:C	1:G:893:VAL:HA	2.23	0.57
1:G:959:ILE:O	1:G:963:LEU:HB2	2.04	0.57
2:H:1431:UNK:O	2:H:1432:UNK:O	2.22	0.57
2:H:1685:LYS:O	2:H:1688:GLN:HB3	2.04	0.57
2:H:1789:PHE:CE1	2:H:1818:LEU:HD23	2.39	0.57
2:H:1822:MET:CE	2:H:1827:LEU:HA	2.34	0.57
2:H:1821:VAL:CG2	2:H:1822:MET:N	2.66	0.57
2:H:1878:VAL:HB	2:H:1898:TYR:CE1	2.38	0.57
2:H:200:ARG:O	2:H:203:LEU:HG	2.05	0.57
2:H:49:ALA:H	2:H:118:LYS:HZ1	1.52	0.57
1:A:1080:THR:OG1	1:A:1083:PRO:CG	2.53	0.57
1:A:1190:PRO:HG2	1:A:1379:ALA:HA	1.86	0.57
1:A:1240:VAL:C	1:A:1242:GLU:N	2.58	0.57
1:A:1247:SER:O	1:A:1301:PRO:CD	2.52	0.57
1:A:1325:ARG:HB2	1:A:1389:GLN:HB2	1.84	0.57
1:A:1471:LYS:O	1:A:1474:ALA:HB2	2.05	0.57
1:A:1542:HIS:HA	1:A:1578:LYS:HE2	1.87	0.57
1:A:1641:ILE:HG12	1:A:1652:GLN:HE22	1.68	0.57
1:A:1665:ILE:HG22	1:A:1667:GLU:N	2.19	0.57
1:A:497:UNK:O	1:A:499:UNK:N	2.37	0.57
1:A:549:UNK:C	1:A:551:UNK:N	2.65	0.57
2:B:49:ALA:N	2:B:118:LYS:NZ	2.51	0.57
2:B:1281:UNK:O	2:B:1282:UNK:CB	2.51	0.57
2:B:1778:GLN:HB2	2:B:1779:PRO:CD	2.32	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:200:ARG:O	2:B:203:LEU:HG	2.05	0.57
3:C:18:UNK:O	3:C:19:UNK:CB	2.52	0.57
1:D:1005:ALA:HB3	1:D:1006:PRO:CD	2.34	0.57
1:D:1110:LEU:HG	1:D:1188:GLN:CA	2.34	0.57
1:D:1240:VAL:C	1:D:1242:GLU:N	2.58	0.57
1:D:235:UNK:O	1:D:236:UNK:C	2.52	0.57
2:E:59:GLU:OE1	2:E:122:LEU:HG	2.04	0.57
2:E:367:GLU:CG	2:E:368:ILE:N	2.67	0.57
1:G:1159:GLU:C	1:G:1166:LYS:HD3	2.24	0.57
1:G:1276:GLN:O	1:G:1279:PHE:HD2	1.87	0.57
1:G:1444:ASN:ND2	1:G:1444:ASN:N	2.51	0.57
1:G:1471:LYS:O	1:G:1471:LYS:HD3	2.04	0.57
1:G:1489:ARG:O	1:G:1493:ILE:HG23	2.04	0.57
1:G:1553:GLU:CA	1:G:1556:THR:HB	2.33	0.57
1:G:1541:PHE:HE2	1:G:1554:SER:HG	1.49	0.57
1:G:1583:HIS:CD2	1:G:1584:PRO:HA	2.40	0.57
1:G:235:UNK:O	1:G:236:UNK:C	2.52	0.57
1:G:808:LYS:CA	1:G:808:LYS:HE3	2.29	0.57
2:H:100:ASP:OD1	2:H:102:HIS:HB2	2.05	0.57
2:H:1322:UNK:C	2:H:1324:UNK:N	2.65	0.57
2:H:1874:VAL:HG22	2:H:1928:GLN:NE2	2.19	0.57
2:H:480:VAL:O	2:H:484:ILE:HG12	2.03	0.57
1:A:1137:SER:HG	1:A:1168:LEU:HD12	1.68	0.57
1:A:1466:GLU:O	1:A:1467:LEU:C	2.42	0.57
2:B:1912:ASN:O	2:B:1913:VAL:HG22	2.04	0.57
2:B:250:VAL:O	2:B:253:ALA:HB3	2.04	0.57
1:D:1067:LEU:C	1:D:1067:LEU:HD22	2.23	0.57
1:D:1132:GLU:N	1:D:1133:PRO:CD	2.66	0.57
1:D:1348:ALA:O	1:D:1349:THR:C	2.42	0.57
1:D:1489:ARG:O	1:D:1493:ILE:HG12	2.04	0.57
1:D:1419:PRO:HD3	1:D:1646:PHE:CD1	2.39	0.57
1:D:1657:HIS:CG	1:D:1658:PRO:HD2	2.39	0.57
1:D:456:UNK:O	1:D:460:UNK:N	2.38	0.57
1:D:471:UNK:HA	1:D:474:UNK:CB	2.35	0.57
2:E:240:LEU:HA	2:E:243:VAL:CG2	2.34	0.57
1:G:1022:THR:HG21	1:G:1388:MET:CE	2.31	0.57
1:G:1060:ILE:HD13	1:G:1077:ASP:OD1	2.04	0.57
1:G:1099:GLU:CG	1:G:1100:HIS:H	2.01	0.57
1:G:1156:GLU:CD	1:G:1156:GLU:C	2.62	0.57
1:G:1341:PHE:O	1:G:1343:PHE:N	2.36	0.57
1:G:1562:LYS:C	1:G:1564:LEU:H	2.08	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1705:PRO:HG2	1:G:1706:TYR:CD1	2.39	0.57
1:G:678:VAL:HG13	1:G:767:ALA:O	2.03	0.57
1:G:908:LEU:O	1:G:913:VAL:HG11	2.04	0.57
1:G:910:THR:O	1:G:911:PRO:O	2.22	0.57
2:H:1250:UNK:O	2:H:1251:UNK:C	2.51	0.57
2:H:144:ALA:C	2:H:146:PHE:H	2.07	0.57
2:H:1486:UNK:O	2:H:1510:UNK:HA	2.04	0.57
2:H:260:PRO:HB2	2:H:286:THR:HB	1.85	0.57
2:H:339:LEU:O	2:H:378:VAL:HA	2.04	0.57
1:A:1041:ALA:O	1:A:1627:PRO:HG3	2.04	0.57
1:A:1246:CYS:N	1:A:1328:ILE:HG23	2.19	0.57
1:A:1589:GLY:HA2	1:A:1592:MET:HE3	1.85	0.57
1:A:1717:ASP:C	1:A:1719:LEU:N	2.58	0.57
1:A:1853:UNK:HA	1:A:1857:UNK:CB	2.34	0.57
1:A:444:UNK:H	1:A:722:TYR:HE2	1.53	0.57
1:A:804:GLY:O	1:A:807:LYS:HB3	2.04	0.57
1:A:905:LEU:HD22	1:A:905:LEU:N	2.18	0.57
2:B:1049:UNK:C	2:B:1051:UNK:N	2.65	0.57
2:B:1698:PHE:HE1	2:B:1828:VAL:CG2	2.17	0.57
2:B:258:PHE:CB	2:B:262:GLU:HB2	2.28	0.57
2:B:69:SER:HA	2:B:80:PHE:CB	2.34	0.57
1:D:1073:THR:CG2	1:D:1074:GLY:N	2.67	0.57
1:D:1426:LEU:HD13	1:D:1651:GLY:N	2.19	0.57
1:D:1455:ARG:O	1:D:1456:GLU:CB	2.52	0.57
1:D:1636:VAL:O	1:D:1637:ARG:HB2	2.05	0.57
1:D:1536:LEU:CB	1:D:1638:ALA:HB3	2.34	0.57
1:D:678:VAL:HG13	1:D:767:ALA:O	2.05	0.57
1:D:791:ALA:O	1:D:794:ILE:HG22	2.04	0.57
2:E:1291:UNK:CB	2:E:1369:UNK:H	2.17	0.57
2:E:582:UNK:O	2:E:583:UNK:CB	2.52	0.57
2:E:767:UNK:C	2:E:769:UNK:N	2.65	0.57
1:G:1188:GLN:O	1:G:1189:ILE:HD13	2.04	0.57
1:G:1722:VAL:CB	1:G:1731:LEU:HG	2.34	0.57
1:G:370:UNK:O	1:G:374:UNK:N	2.38	0.57
1:G:710:PHE:HD2	1:G:711:SER:H	1.53	0.57
1:G:771:PHE:CE2	1:G:825:PRO:HB3	2.38	0.57
2:H:1066:UNK:O	2:H:1067:UNK:O	2.23	0.57
2:H:41:LEU:CB	2:H:46:GLU:H	2.17	0.57
1:A:370:UNK:O	1:A:374:UNK:N	2.36	0.57
1:A:557:UNK:C	1:A:559:UNK:N	2.67	0.57
1:A:712:LYS:HE2	1:A:716:ASP:OD2	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:771:PHE:CD1	1:A:771:PHE:N	2.73	0.57
1:A:794:ILE:HA	1:A:798:ASN:ND2	2.18	0.57
1:A:910:THR:O	1:A:911:PRO:O	2.22	0.57
2:B:386:LEU:O	2:B:389:LEU:HB3	2.05	0.57
1:D:1080:THR:O	1:D:1081:LYS:C	2.41	0.57
1:D:1112:ASN:ND2	1:D:1117:GLU:O	2.35	0.57
1:D:1144:PHE:HA	1:D:1147:GLN:HB2	1.85	0.57
1:D:1466:GLU:O	1:D:1467:LEU:C	2.43	0.57
1:D:1471:LYS:O	1:D:1474:ALA:HB2	2.05	0.57
1:D:1536:LEU:HB3	1:D:1638:ALA:CB	2.34	0.57
1:D:1002:LYS:HE3	1:D:1670:TYR:OH	2.04	0.57
1:D:368:UNK:C	1:D:370:UNK:N	2.63	0.57
1:D:445:UNK:O	1:D:447:UNK:N	2.38	0.57
1:D:497:UNK:O	1:D:499:UNK:N	2.38	0.57
2:E:1605:UNK:C	2:E:1607:UNK:H2	2.16	0.57
2:E:1789:PHE:O	2:E:1790:GLU:C	2.42	0.57
2:E:527:VAL:HG22	2:E:540:ASP:O	2.05	0.57
2:E:704:UNK:HA	2:E:707:UNK:CB	2.35	0.57
2:E:78:GLY:O	2:E:79:GLN:C	2.43	0.57
1:G:1144:PHE:CD1	1:G:1145:LYS:N	2.72	0.57
1:G:1118:LYS:CE	1:G:1337:GLU:HG3	2.33	0.57
1:G:1511:ASP:O	1:G:1512:PHE:C	2.42	0.57
1:G:1555:ALA:HA	1:G:1558:ASN:HB3	1.87	0.57
1:G:1403:ILE:O	1:G:1655:VAL:HG22	2.03	0.57
1:G:571:UNK:O	1:G:575:UNK:N	2.36	0.57
1:G:761:LEU:HD11	1:G:763:TRP:CE3	2.39	0.57
1:G:775:PRO:O	1:G:776:GLU:CB	2.51	0.57
1:G:999:LYS:O	1:G:1001:VAL:N	2.33	0.57
2:H:2040:UNK:O	2:H:2042:UNK:N	2.37	0.57
1:A:1131:LEU:CA	1:A:1173:LEU:HD22	2.35	0.57
1:A:1208:VAL:HB	1:A:1212:THR:HG21	1.87	0.57
1:A:1377:MET:O	1:A:1378:GLU:O	2.23	0.57
1:A:1553:GLU:CA	1:A:1556:THR:HB	2.35	0.57
1:A:1397:GLY:H	1:A:1676:LYS:HB3	1.69	0.57
1:A:884:ILE:CG2	1:A:887:GLY:HA3	2.34	0.57
1:A:905:LEU:HA	1:A:908:LEU:HB3	1.85	0.57
2:B:1166:UNK:C	2:B:1168:UNK:H	2.17	0.57
2:B:1709:ILE:CD1	2:B:1719:ILE:HD11	2.33	0.57
2:B:1721:PHE:CD1	2:B:1721:PHE:N	2.73	0.57
2:B:1720:HIS:HA	2:B:1763:THR:HA	1.86	0.57
2:B:1901:ALA:HA	2:B:1905:ARG:NH2	2.20	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:18:HIS:O	2:B:20:LEU:N	2.37	0.57
2:B:349:VAL:HG21	2:B:377:LEU:CD1	2.31	0.57
2:B:408:PRO:HA	2:B:412:ARG:HB2	1.87	0.57
1:D:1079:LYS:HG2	1:D:1080:THR:N	2.20	0.57
1:D:1133:PRO:HD2	1:D:1173:LEU:HD13	1.86	0.57
1:D:1240:VAL:O	1:D:1242:GLU:N	2.37	0.57
1:D:1538:VAL:HG11	1:D:1599:ILE:HD12	1.87	0.57
1:D:771:PHE:CD1	1:D:771:PHE:N	2.73	0.57
1:D:839:TYR:CE1	1:D:843:LYS:HE2	2.39	0.57
1:D:963:LEU:O	1:D:967:VAL:HG23	2.05	0.57
2:E:1281:UNK:O	2:E:1282:UNK:CB	2.52	0.57
2:E:1672:GLN:HE21	2:E:1777:THR:CG2	2.17	0.57
3:F:18:UNK:O	3:F:19:UNK:CB	2.53	0.57
1:G:1080:THR:OG1	1:G:1083:PRO:CG	2.52	0.57
1:G:1197:THR:OG1	1:G:1200:ILE:HG22	2.05	0.57
1:G:1397:GLY:H	1:G:1676:LYS:HB3	1.70	0.57
1:G:1589:GLY:HA2	1:G:1592:MET:HE2	1.86	0.57
1:G:1637:ARG:O	1:G:1656:VAL:HG23	2.04	0.57
1:G:1665:ILE:HG22	1:G:1667:GLU:N	2.19	0.57
1:G:428:UNK:O	1:G:430:UNK:N	2.37	0.57
1:G:595:UNK:O	1:G:611:UNK:HA	2.05	0.57
1:G:444:UNK:H	1:G:722:TYR:HE2	1.53	0.57
1:G:753:TYR:CD2	1:G:809:GLN:HG3	2.39	0.57
2:H:1703:GLY:O	2:H:1704:PHE:HD1	1.86	0.57
2:H:1812:TYR:O	2:H:1816:ALA:CB	2.53	0.57
2:H:131:ILE:HG21	2:H:182:VAL:CG2	2.34	0.57
1:A:1187:GLY:O	1:A:1189:ILE:HG12	2.05	0.57
1:A:1261:PHE:N	1:A:1261:PHE:CD2	2.70	0.57
1:A:1459:ILE:O	1:A:1463:VAL:HG23	2.05	0.57
1:A:1489:ARG:O	1:A:1493:ILE:HG12	2.04	0.57
1:A:595:UNK:O	1:A:611:UNK:HA	2.04	0.57
1:A:742:LYS:O	1:A:743:GLN:C	2.43	0.57
1:A:998:TYR:O	1:A:999:LYS:O	2.22	0.57
2:B:862:UNK:HA	2:B:865:UNK:CB	2.34	0.57
2:B:1886:VAL:O	3:C:3:UNK:CB	2.53	0.57
1:D:1406:MET:HE3	1:D:1430:ARG:HD2	1.87	0.57
1:D:1604:ILE:HG23	1:D:1630:THR:CA	2.34	0.57
1:D:741:SER:O	1:D:742:LYS:O	2.22	0.57
1:D:792:HIS:HD2	1:D:838:MET:SD	2.28	0.57
2:E:1322:UNK:O	2:E:1324:UNK:N	2.37	0.57
2:E:170:PHE:CB	2:E:231:LEU:HD21	2.35	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:33:LEU:O	2:E:37:PHE:HB2	2.03	0.57
2:E:390:ASN:OD1	2:E:393:LEU:HD23	2.05	0.57
2:E:504:PHE:HA	2:E:529:VAL:HG23	1.84	0.57
1:G:1067:LEU:C	1:G:1069:GLY:H	2.06	0.57
1:G:1069:GLY:O	1:G:1070:ARG:C	2.43	0.57
1:G:1208:VAL:HG12	1:G:1286:TRP:CZ3	2.40	0.57
1:G:1246:CYS:N	1:G:1328:ILE:HG23	2.20	0.57
1:G:1260:MET:C	1:G:1261:PHE:HD2	2.08	0.57
1:G:1311:SER:O	1:G:1314:ILE:N	2.36	0.57
1:G:1455:ARG:O	1:G:1456:GLU:CB	2.53	0.57
1:G:1547:LYS:HE3	1:G:1615:ASP:HB2	1.87	0.57
1:G:1553:GLU:HB2	1:G:1644:PHE:HE2	1.69	0.57
2:H:1141:UNK:O	2:H:1142:UNK:CB	2.53	0.57
2:H:1418:UNK:C	2:H:1420:UNK:N	2.65	0.57
2:H:1678:MET:CE	2:H:1678:MET:HA	2.34	0.57
2:H:1859:PRO:HB3	2:H:1863:ALA:CB	2.35	0.57
2:H:238:CYS:N	2:H:239:PRO:HD2	2.20	0.57
2:H:450:PHE:HD1	2:H:451:ASN:H	1.49	0.57
1:A:1011:GLY:O	1:A:1663:GLY:HA3	2.04	0.57
1:A:1073:THR:HG22	1:A:1074:GLY:N	2.19	0.57
1:A:1412:ASP:HB2	1:A:1425:ILE:C	2.24	0.57
1:A:1547:LYS:HE3	1:A:1615:ASP:HB2	1.87	0.57
1:A:1002:LYS:HE3	1:A:1670:TYR:OH	2.05	0.57
1:A:830:HIS:CD2	1:A:830:HIS:N	2.71	0.57
2:B:1193:UNK:HA	2:B:1201:UNK:O	2.04	0.57
2:B:1672:GLN:HE21	2:B:1777:THR:CG2	2.18	0.57
2:B:61:VAL:HG12	2:B:65:LEU:HD12	1.86	0.57
1:D:1041:ALA:O	1:D:1627:PRO:HG3	2.04	0.57
1:D:586:UNK:CB	1:D:671:VAL:N	2.63	0.57
1:D:710:PHE:HE1	1:D:736:PRO:CD	2.13	0.57
1:D:792:HIS:O	1:D:796:LEU:HD23	2.05	0.57
1:D:794:ILE:HA	1:D:798:ASN:ND2	2.20	0.57
2:E:49:ALA:CA	2:E:118:LYS:HZ2	2.18	0.57
2:E:1883:GLY:HA2	2:E:1894:GLU:CD	2.24	0.57
2:E:41:LEU:N	2:E:42:PRO:HD2	2.20	0.57
2:E:41:LEU:CB	2:E:46:GLU:H	2.15	0.57
2:E:515:LEU:O	2:E:515:LEU:HD12	2.04	0.57
1:G:1220:VAL:HG21	1:G:1698:PHE:HD1	1.69	0.57
1:G:1454:THR:HG21	1:G:1508:TRP:CZ3	2.39	0.57
1:G:742:LYS:O	1:G:743:GLN:C	2.44	0.57
1:G:687:SER:HB2	1:G:899:LYS:CE	2.35	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:928:GLY:O	1:G:930:LEU:N	2.38	0.57
2:H:148:ALA:HB1	2:H:154:ALA:HB3	1.87	0.57
2:H:1764:PHE:N	2:H:1764:PHE:HD2	1.99	0.57
2:H:265:SER:O	2:H:267:LEU:N	2.38	0.57
2:H:462:THR:HB	2:H:482:CYS:HB2	1.87	0.57
2:H:504:PHE:HA	2:H:529:VAL:HG23	1.84	0.57
2:H:69:SER:HA	2:H:80:PHE:CB	2.34	0.57
1:A:1022:THR:O	1:A:1401:TYR:HE2	1.87	0.57
1:A:1530:GLY:O	1:A:1531:LEU:O	2.23	0.57
1:A:1378:GLU:HA	1:A:1583:HIS:CB	2.35	0.57
1:A:1625:LEU:CD1	1:A:1626:TYR:HD1	2.17	0.57
1:A:1730:SER:O	1:A:1731:LEU:C	2.43	0.57
1:A:563:UNK:C	1:A:565:UNK:N	2.68	0.57
1:A:680:ILE:HA	1:A:769:ILE:HG23	1.87	0.57
1:A:792:HIS:HD2	1:A:838:MET:SD	2.27	0.57
2:B:100:ASP:OD1	2:B:102:HIS:HB2	2.05	0.57
2:B:49:ALA:H	2:B:118:LYS:HZ1	1.53	0.57
2:B:1328:UNK:O	2:B:1332:UNK:N	2.37	0.57
2:B:969:UNK:O	2:B:971:UNK:N	2.38	0.57
1:D:1138:LYS:O	1:D:1139:GLU:HB3	2.04	0.57
1:D:1274:ILE:C	1:D:1276:GLN:H	2.07	0.57
1:D:1308:SER:CB	1:D:1590:ALA:H	2.17	0.57
1:D:1413:LYS:HD2	1:D:1425:ILE:CD1	2.34	0.57
1:D:1592:MET:O	1:D:1596:ALA:N	2.38	0.57
1:D:1303:GLY:HA3	1:D:1649:LYS:HD2	1.84	0.57
1:D:1641:ILE:HG12	1:D:1652:GLN:HE22	1.70	0.57
1:D:1717:ASP:C	1:D:1719:LEU:N	2.58	0.57
1:D:742:LYS:O	1:D:743:GLN:C	2.43	0.57
2:E:1693:ARG:HD3	2:E:1825:GLU:OE2	2.05	0.57
2:E:1754:GLU:C	2:E:1756:ASN:H	2.08	0.57
2:E:346:GLN:O	2:E:348:GLN:N	2.36	0.57
2:E:473:GLY:O	2:E:477:GLU:HB3	2.04	0.57
1:G:1119:LYS:CG	1:G:1121:MET:HB2	2.34	0.57
1:G:1288:ASN:O	1:G:1290:LEU:N	2.38	0.57
1:G:1348:ALA:O	1:G:1349:THR:C	2.42	0.57
1:G:1370:THR:O	1:G:1371:THR:HB	2.04	0.57
1:G:1466:GLU:O	1:G:1467:LEU:C	2.42	0.57
1:G:1028:GLY:HA3	1:G:1591:TRP:HZ2	1.67	0.57
1:G:741:SER:O	1:G:742:LYS:O	2.23	0.57
2:H:1049:UNK:C	2:H:1051:UNK:N	2.66	0.57
2:H:1225:UNK:O	2:H:1226:UNK:CB	2.53	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:1778:GLN:HB2	2:H:1779:PRO:CD	2.32	0.57
2:H:1804:PHE:CE2	2:H:1818:LEU:HB2	2.40	0.57
2:H:490:TRP:CH2	2:H:512:LEU:HD13	2.40	0.57
1:A:1045:PHE:HB3	1:A:1050:CYS:N	2.20	0.56
1:A:1110:LEU:HG	1:A:1188:GLN:CA	2.34	0.56
1:A:1339:GLY:O	1:A:1341:PHE:O	2.22	0.56
1:A:1408:ALA:HA	1:A:1652:GLN:O	2.05	0.56
1:A:1553:GLU:HA	1:A:1556:THR:HB	1.87	0.56
1:A:1604:ILE:HD13	1:A:1604:ILE:N	2.20	0.56
1:A:1412:ASP:O	1:A:1648:GLN:OE1	2.23	0.56
2:B:1264:UNK:C	2:B:1266:UNK:N	2.68	0.56
2:B:1334:UNK:O	2:B:1335:UNK:C	2.52	0.56
2:B:1562:UNK:O	2:B:1564:UNK:N	2.38	0.56
2:B:238:CYS:N	2:B:239:PRO:HD2	2.20	0.56
2:B:339:LEU:HB2	2:B:420:PHE:CD1	2.40	0.56
2:B:41:LEU:HD22	2:B:47:GLY:N	2.20	0.56
2:B:699:UNK:O	2:B:700:UNK:C	2.51	0.56
1:D:1041:ALA:HA	1:D:1606:PRO:HG3	1.87	0.56
1:D:1076:VAL:HG11	1:D:1087:LYS:CA	2.25	0.56
1:D:1276:GLN:O	1:D:1279:PHE:CD2	2.59	0.56
1:D:677:TYR:HA	1:D:702:LYS:O	2.05	0.56
1:D:858:TRP:HA	1:D:861:GLN:NE2	2.19	0.56
1:D:928:GLY:O	1:D:930:LEU:N	2.38	0.56
2:E:1975:UNK:O	2:E:1976:UNK:CB	2.52	0.56
2:E:222:PRO:HA	2:E:225:THR:OG1	2.05	0.56
1:G:1012:LEU:HD11	1:G:1015:LEU:HD12	1.86	0.56
1:G:1108:PRO:O	1:G:1109:GLU:HB2	2.05	0.56
1:G:1109:GLU:O	1:G:1110:LEU:CB	2.53	0.56
1:G:1197:THR:HA	1:G:1200:ILE:CG2	2.34	0.56
1:G:1214:PHE:C	1:G:1218:SER:HG	2.07	0.56
1:G:1257:LEU:HD23	1:G:1257:LEU:O	2.04	0.56
1:G:1614:VAL:O	1:G:1614:VAL:HG12	2.05	0.56
1:G:1691:GLY:O	1:G:1695:ASN:N	2.38	0.56
1:G:1691:GLY:C	1:G:1697:LEU:HD11	2.26	0.56
1:G:525:UNK:O	1:G:526:UNK:C	2.53	0.56
1:G:547:UNK:O	1:G:549:UNK:N	2.36	0.56
2:H:1458:UNK:O	2:H:1460:UNK:N	2.38	0.56
2:H:917:UNK:C	2:H:919:UNK:N	2.67	0.56
1:A:1118:LYS:HG3	1:A:1118:LYS:O	2.05	0.56
1:A:1178:ALA:O	1:A:1179:LEU:CD2	2.50	0.56
1:A:1370:THR:O	1:A:1371:THR:HB	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1413:LYS:HD2	1:A:1425:ILE:CD1	2.35	0.56
1:A:1447:TYR:C	1:A:1449:LYS:N	2.58	0.56
1:A:1618:LEU:HB3	1:A:1623:TYR:HE2	1.69	0.56
1:A:239:UNK:O	1:A:241:UNK:N	2.38	0.56
1:A:771:PHE:O	1:A:772:ALA:O	2.23	0.56
1:A:687:SER:HB2	1:A:899:LYS:HE3	1.87	0.56
2:B:1018:UNK:O	2:B:1019:UNK:CB	2.53	0.56
2:B:1:MET:CB	2:B:11:LEU:HB2	2.29	0.56
2:B:1379:UNK:HA	2:B:1425:UNK:O	2.05	0.56
2:B:1418:UNK:C	2:B:1420:UNK:N	2.67	0.56
2:B:14:GLY:HA3	2:B:18:HIS:CB	2.35	0.56
2:B:1789:PHE:O	2:B:1790:GLU:C	2.42	0.56
2:B:1907:LEU:HD23	2:B:1907:LEU:N	2.20	0.56
2:B:2020:UNK:C	2:B:2022:UNK:N	2.66	0.56
2:B:240:LEU:HA	2:B:243:VAL:CG2	2.34	0.56
2:B:390:ASN:OD1	2:B:393:LEU:HD23	2.05	0.56
2:B:765:UNK:C	2:B:767:UNK:N	2.67	0.56
2:B:94:CYS:SG	2:B:95:TYR:N	2.79	0.56
1:D:1162:GLU:OE2	1:D:1162:GLU:N	2.38	0.56
1:D:1202:ASP:O	1:D:1203:ASP:CB	2.53	0.56
1:D:927:ASN:O	1:D:929:GLY:N	2.38	0.56
2:E:384:GLN:O	2:E:385:SER:C	2.43	0.56
2:E:408:PRO:HA	2:E:412:ARG:HB2	1.88	0.56
1:G:1109:GLU:C	1:G:1111:PHE:N	2.58	0.56
1:G:1258:ARG:NH1	1:G:1263:ASP:OD2	2.38	0.56
1:G:1280:ILE:CD1	1:G:1280:ILE:H	2.16	0.56
1:G:1489:ARG:O	1:G:1493:ILE:HG12	2.05	0.56
1:G:1604:ILE:HD13	1:G:1604:ILE:N	2.19	0.56
1:G:963:LEU:O	1:G:967:VAL:HG23	2.05	0.56
2:H:1040:UNK:O	2:H:1041:UNK:CB	2.53	0.56
2:H:1193:UNK:HA	2:H:1201:UNK:O	2.04	0.56
2:H:1379:UNK:HA	2:H:1425:UNK:O	2.04	0.56
2:H:1975:UNK:O	2:H:1976:UNK:CB	2.53	0.56
2:H:478:ARG:C	2:H:480:VAL:N	2.59	0.56
2:H:503:ASP:C	2:H:505:GLY:H	2.08	0.56
1:A:1189:ILE:CD1	1:A:1352:THR:HG23	2.31	0.56
1:A:1464:GLU:HG2	1:A:1773:UNK:N	2.20	0.56
1:A:1604:ILE:HG23	1:A:1630:THR:CA	2.35	0.56
1:A:418:UNK:O	1:A:419:UNK:C	2.53	0.56
1:A:428:UNK:O	1:A:430:UNK:N	2.37	0.56
1:A:680:ILE:HD11	1:A:703:VAL:HG13	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:701:ALA:O	1:A:730:SER:HA	2.05	0.56
1:A:796:LEU:O	1:A:800:LEU:HD23	2.05	0.56
2:B:1799:PRO:O	2:B:1801:ASP:N	2.38	0.56
2:B:131:ILE:HG21	2:B:182:VAL:CG2	2.35	0.56
2:B:503:ASP:C	2:B:505:GLY:H	2.08	0.56
2:B:50:ALA:O	2:B:51:ASP:HB2	2.05	0.56
2:B:620:UNK:O	2:B:622:UNK:N	2.38	0.56
2:B:799:UNK:C	2:B:801:UNK:N	2.67	0.56
1:D:1026:GLU:O	1:D:1032:SER:HA	2.04	0.56
1:D:1105:LEU:HD22	1:D:1111:PHE:CZ	2.39	0.56
1:D:1111:PHE:HB3	1:D:1114:TYR:CD1	2.39	0.56
1:D:1169:LYS:NZ	1:D:1170:GLY:H	2.02	0.56
1:D:1188:GLN:O	1:D:1189:ILE:HD13	2.06	0.56
1:D:1254:VAL:CG2	1:D:1255:SER:H	2.06	0.56
1:D:1464:GLU:CA	1:D:1467:LEU:HD12	2.26	0.56
1:D:1539:ALA:HA	1:D:1640:SER:O	2.05	0.56
1:D:1573:ILE:HG23	1:D:1624:VAL:CG1	2.35	0.56
1:D:771:PHE:CE1	1:D:825:PRO:HD3	2.41	0.56
2:E:1162:UNK:C	2:E:1164:UNK:H	2.19	0.56
2:E:1698:PHE:CD1	2:E:1706:ILE:HD11	2.40	0.56
2:E:197:GLU:O	2:E:199:ILE:N	2.38	0.56
1:G:1032:SER:O	1:G:1033:ALA:C	2.43	0.56
1:G:1103:ILE:O	1:G:1106:ILE:HG13	2.05	0.56
1:G:1121:MET:O	1:G:1183:ARG:HA	2.04	0.56
1:G:1303:GLY:HA3	1:G:1649:LYS:HD2	1.86	0.56
1:G:489:UNK:O	1:G:490:UNK:C	2.53	0.56
1:G:797:THR:O	1:G:800:LEU:N	2.38	0.56
1:G:858:TRP:HA	1:G:861:GLN:NE2	2.20	0.56
1:G:826:MET:HG3	1:G:867:ALA:H	1.68	0.56
1:G:927:ASN:ND2	1:G:931:GLN:H	2.03	0.56
2:H:1281:UNK:O	2:H:1282:UNK:CB	2.53	0.56
2:H:1698:PHE:C	2:H:1700:ASP:H	2.08	0.56
2:H:1720:HIS:HA	2:H:1763:THR:HA	1.86	0.56
2:H:1948:UNK:O	2:H:1949:UNK:CB	2.52	0.56
2:H:339:LEU:HB2	2:H:420:PHE:CD1	2.40	0.56
2:H:915:UNK:O	2:H:917:UNK:N	2.39	0.56
1:A:1122:ILE:O	1:A:1122:ILE:HG13	2.05	0.56
1:A:1165:VAL:HG23	1:A:1166:LYS:N	2.20	0.56
1:A:1455:ARG:O	1:A:1456:GLU:CB	2.53	0.56
1:A:1637:ARG:O	1:A:1656:VAL:HG23	2.06	0.56
1:A:432:UNK:O	1:A:433:UNK:CB	2.54	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:456:UNK:O	1:A:460:UNK:N	2.39	0.56
2:B:214:ASN:O	2:B:216:LEU:N	2.38	0.56
2:B:235:PRO:O	2:B:236:ILE:CB	2.53	0.56
2:B:241:ILE:HG22	2:B:242:GLY:H	1.70	0.56
1:D:1140:THR:HA	1:D:1165:VAL:HB	1.88	0.56
1:D:1189:ILE:CD1	1:D:1352:THR:HG23	2.32	0.56
1:D:1456:GLU:H	1:D:1459:ILE:HG13	1.67	0.56
1:D:1624:VAL:O	1:D:1625:LEU:HB3	2.04	0.56
1:D:418:UNK:O	1:D:419:UNK:C	2.54	0.56
2:E:214:ASN:O	2:E:216:LEU:N	2.39	0.56
2:E:490:TRP:CH2	2:E:512:LEU:HD13	2.41	0.56
1:G:1191:THR:HB	1:G:1193:TRP:CZ3	2.39	0.56
1:G:1327:CYS:HB3	1:G:1387:ILE:HD11	1.87	0.56
1:G:1412:ASP:O	1:G:1648:GLN:OE1	2.23	0.56
1:G:1378:GLU:HA	1:G:1583:HIS:CB	2.36	0.56
1:G:1717:ASP:O	1:G:1719:LEU:N	2.38	0.56
1:G:796:LEU:O	1:G:800:LEU:HD23	2.05	0.56
2:H:1307:UNK:C	2:H:1309:UNK:N	2.68	0.56
2:H:1983:UNK:C	2:H:1985:UNK:N	2.65	0.56
2:H:582:UNK:O	2:H:583:UNK:CB	2.53	0.56
2:H:767:UNK:C	2:H:769:UNK:N	2.66	0.56
2:H:916:UNK:O	2:H:920:UNK:N	2.39	0.56
1:A:1012:LEU:HD11	1:A:1015:LEU:HD12	1.87	0.56
1:A:1099:GLU:O	1:A:1102:GLY:N	2.24	0.56
1:A:1108:PRO:O	1:A:1109:GLU:HB2	2.05	0.56
1:A:1144:PHE:CD1	1:A:1145:LYS:N	2.72	0.56
1:A:1299:LYS:O	1:A:1300:THR:HB	2.05	0.56
1:A:1422:GLY:C	1:A:1425:ILE:HB	2.24	0.56
1:A:1654:ILE:CG1	1:A:1655:VAL:N	2.69	0.56
2:B:1812:TYR:O	2:B:1816:ALA:CB	2.54	0.56
2:B:2040:UNK:C	2:B:2042:UNK:N	2.64	0.56
2:B:267:LEU:HG	2:B:457:ILE:CD1	2.36	0.56
2:B:462:THR:HB	2:B:482:CYS:HB2	1.87	0.56
2:B:41:LEU:CD2	2:B:46:GLU:HA	2.31	0.56
1:D:1067:LEU:HG	1:D:1074:GLY:H	1.71	0.56
1:D:1133:PRO:O	1:D:1134:PHE:CD1	2.58	0.56
1:D:1144:PHE:O	1:D:1145:LYS:C	2.44	0.56
1:D:1216:LEU:O	1:D:1217:VAL:C	2.43	0.56
1:D:1257:LEU:O	1:D:1257:LEU:HD23	2.06	0.56
1:D:1459:ILE:O	1:D:1463:VAL:HG23	2.04	0.56
1:D:1471:LYS:HD3	1:D:1471:LYS:O	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1489:ARG:O	1:D:1493:ILE:HG23	2.06	0.56
1:D:1549:ASN:OD1	1:D:1550:ASP:N	2.38	0.56
1:D:791:ALA:CA	1:D:794:ILE:HG22	2.34	0.56
2:E:98:GLY:O	2:E:100:ASP:N	2.38	0.56
2:E:1299:UNK:O	2:E:1301:UNK:N	2.39	0.56
2:E:1558:UNK:O	2:E:1559:UNK:C	2.54	0.56
2:E:248:HIS:CE1	2:E:530:ALA:HB2	2.40	0.56
2:E:29:ILE:C	2:E:31:SER:N	2.56	0.56
2:E:594:UNK:O	2:E:611:UNK:HA	2.06	0.56
1:G:1067:LEU:HG	1:G:1074:GLY:H	1.70	0.56
1:G:1110:LEU:HG	1:G:1188:GLN:CA	2.35	0.56
1:G:1200:ILE:HD12	1:G:1698:PHE:CE2	2.40	0.56
2:H:1698:PHE:C	2:H:1700:ASP:N	2.58	0.56
2:H:18:HIS:O	2:H:20:LEU:N	2.39	0.56
2:H:335:PRO:HA	2:H:420:PHE:CE2	2.40	0.56
1:A:1260:MET:C	1:A:1261:PHE:HD2	2.09	0.56
1:A:1219:VAL:HA	1:A:1384:ILE:HG21	1.87	0.56
1:A:1447:TYR:HE2	1:A:1450:ARG:CG	2.18	0.56
1:A:1459:ILE:HD12	1:A:1460:LYS:N	2.21	0.56
1:A:1542:HIS:HB2	1:A:1592:MET:HE1	1.88	0.56
1:A:1636:VAL:O	1:A:1637:ARG:HB2	2.05	0.56
1:A:1656:VAL:HG22	1:A:1657:HIS:N	2.20	0.56
1:A:525:UNK:O	1:A:526:UNK:C	2.54	0.56
1:A:908:LEU:O	1:A:913:VAL:HG11	2.05	0.56
2:B:1693:ARG:HD3	2:B:1825:GLU:OE2	2.06	0.56
2:B:1762:TYR:CD1	2:B:1763:THR:N	2.72	0.56
1:D:1063:HIS:O	1:D:1065:GLY:N	2.34	0.56
1:D:1290:LEU:O	1:D:1291:LEU:HB2	2.06	0.56
1:D:1028:GLY:HA3	1:D:1591:TRP:HZ2	1.71	0.56
1:D:1590:ALA:O	1:D:1593:MET:HB3	2.05	0.56
1:D:529:UNK:O	1:D:533:UNK:N	2.38	0.56
1:D:693:LEU:O	1:D:694:GLN:C	2.44	0.56
1:D:443:UNK:HA	1:D:722:TYR:CE2	2.41	0.56
1:D:999:LYS:O	1:D:1001:VAL:N	2.33	0.56
2:E:100:ASP:OD1	2:E:102:HIS:HB2	2.04	0.56
2:E:1758:HIS:CD2	2:E:1759:SER:H	2.24	0.56
2:E:1842:VAL:O	2:E:1842:VAL:HG12	2.04	0.56
2:E:26:SER:O	2:E:29:ILE:HG22	2.05	0.56
2:E:862:UNK:HA	2:E:865:UNK:CB	2.35	0.56
1:G:1110:LEU:CD1	1:G:1188:GLN:N	2.68	0.56
1:G:1691:GLY:HA2	1:G:1696:LYS:HB2	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:1877:ARG:HG2	2:H:1929:LYS:CD	2.36	0.56
2:H:349:VAL:CG2	2:H:377:LEU:HD13	2.32	0.56
2:H:41:LEU:N	2:H:42:PRO:HD2	2.19	0.56
2:H:601:UNK:HA	2:H:604:UNK:CB	2.36	0.56
2:H:63:LYS:O	2:H:66:GLY:N	2.39	0.56
1:A:1069:GLY:O	1:A:1070:ARG:C	2.44	0.56
1:A:1403:ILE:HG23	1:A:1656:VAL:CG1	2.27	0.56
1:A:1370:THR:H	1:A:1547:LYS:CD	2.17	0.56
2:B:1262:UNK:O	2:B:1263:UNK:C	2.53	0.56
2:B:1458:UNK:O	2:B:1460:UNK:N	2.38	0.56
2:B:1602:UNK:C	2:B:1604:UNK:N	2.67	0.56
2:B:1751:ILE:HG21	2:B:1836:MET:SD	2.46	0.56
2:B:1754:GLU:C	2:B:1756:ASN:H	2.08	0.56
2:B:1789:PHE:CZ	2:B:1818:LEU:HD23	2.40	0.56
2:B:333:GLY:O	2:B:334:VAL:C	2.43	0.56
1:D:1069:GLY:O	1:D:1070:ARG:C	2.44	0.56
1:D:1247:SER:O	1:D:1301:PRO:CD	2.54	0.56
1:D:1392:LEU:H	1:D:1392:LEU:CD2	2.18	0.56
1:D:1394:LEU:HD11	1:D:1661:LEU:CD2	2.36	0.56
1:D:1579:PHE:CD2	1:D:1609:ARG:O	2.59	0.56
1:D:681:THR:HG22	1:D:771:PHE:O	2.06	0.56
1:D:815:ILE:O	1:D:815:ILE:HG22	2.04	0.56
1:D:959:ILE:O	1:D:963:LEU:HB2	2.05	0.56
2:E:1328:UNK:O	2:E:1332:UNK:N	2.39	0.56
2:E:1458:UNK:O	2:E:1460:UNK:N	2.38	0.56
2:E:1720:HIS:C	2:E:1721:PHE:CD1	2.78	0.56
2:E:1877:ARG:HG2	2:E:1929:LYS:CD	2.36	0.56
2:E:387:TYR:O	2:E:390:ASN:HB2	2.05	0.56
1:G:1242:GLU:O	1:G:1243:VAL:HG13	2.05	0.56
1:G:717:TYR:HD2	1:G:718:TYR:CD1	2.23	0.56
1:G:771:PHE:O	1:G:772:ALA:O	2.23	0.56
1:G:815:ILE:O	1:G:815:ILE:HG22	2.06	0.56
1:G:949:GLU:O	1:G:953:VAL:HG23	2.05	0.56
2:H:240:LEU:HA	2:H:243:VAL:CG2	2.36	0.56
2:H:473:GLY:O	2:H:477:GLU:HB3	2.05	0.56
2:H:527:VAL:HG22	2:H:540:ASP:O	2.06	0.56
2:H:969:UNK:O	2:H:970:UNK:C	2.54	0.56
1:A:1067:LEU:HG	1:A:1074:GLY:H	1.71	0.56
1:A:1096:SER:C	1:A:1098:LEU:N	2.59	0.56
1:A:1105:LEU:HB3	1:A:1111:PHE:HE2	1.70	0.56
1:A:1173:LEU:O	1:A:1174:TYR:HB2	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1220:VAL:HG21	1:A:1698:PHE:HD1	1.69	0.56
1:A:1254:VAL:C	1:A:1256:ALA:N	2.49	0.56
1:A:1691:GLY:O	1:A:1695:ASN:N	2.38	0.56
2:B:1907:LEU:CD2	2:B:1907:LEU:H	2.10	0.56
2:B:932:UNK:O	2:B:934:UNK:N	2.39	0.56
1:D:1119:LYS:C	1:D:1121:MET:N	2.59	0.56
1:D:1131:LEU:CB	1:D:1133:PRO:HD3	2.31	0.56
1:D:1159:GLU:O	1:D:1166:LYS:HB3	2.06	0.56
1:D:1219:VAL:HG23	1:D:1328:ILE:HD11	1.88	0.56
1:D:1605:ILE:HG13	1:D:1628:SER:CB	2.36	0.56
1:D:432:UNK:O	1:D:433:UNK:CB	2.53	0.56
1:D:563:UNK:C	1:D:565:UNK:N	2.68	0.56
1:D:771:PHE:O	1:D:772:ALA:O	2.24	0.56
2:E:1729:ILE:HG23	2:E:1730:ARG:N	2.13	0.56
2:E:1751:ILE:HG21	2:E:1836:MET:SD	2.46	0.56
2:E:1859:PRO:HB3	2:E:1863:ALA:CB	2.35	0.56
2:E:1927:LEU:HA	2:E:1930:SER:CB	2.36	0.56
2:E:235:PRO:O	2:E:236:ILE:CB	2.54	0.56
2:E:267:LEU:HG	2:E:457:ILE:CD1	2.35	0.56
1:G:1073:THR:CG2	1:G:1074:GLY:N	2.68	0.56
1:G:1126:ILE:CG2	1:G:1127:VAL:N	2.68	0.56
1:G:1158:PRO:O	1:G:1167:LEU:HB3	2.06	0.56
1:G:1419:PRO:O	1:G:1420:ALA:HB2	2.06	0.56
1:G:1541:PHE:CG	1:G:1576:PHE:HE1	2.23	0.56
1:G:239:UNK:O	1:G:241:UNK:N	2.39	0.56
1:G:911:PRO:O	1:G:912:GLU:HB2	2.05	0.56
2:H:1760:THR:O	2:H:1761:SER:OG	2.23	0.56
2:H:1672:GLN:HE21	2:H:1777:THR:HG21	1.71	0.56
2:H:1908:ASP:O	2:H:1911:THR:HG22	2.06	0.56
2:H:292:PHE:O	2:H:295:SER:HB3	2.05	0.56
2:H:41:LEU:HD22	2:H:47:GLY:N	2.21	0.56
1:A:1140:THR:HA	1:A:1165:VAL:HB	1.86	0.56
1:A:1223:PHE:HE2	1:A:1386:ILE:CG2	2.10	0.56
1:A:1471:LYS:HA	1:A:1474:ALA:HB2	1.88	0.56
1:A:1579:PHE:O	1:A:1580:LEU:CB	2.52	0.56
1:A:911:PRO:O	1:A:912:GLU:HB2	2.06	0.56
2:B:1911:THR:C	2:B:1913:VAL:H	2.09	0.56
2:B:450:PHE:CD1	2:B:451:ASN:N	2.63	0.56
2:B:41:LEU:CB	2:B:46:GLU:H	2.14	0.56
2:B:601:UNK:HA	2:B:604:UNK:CB	2.36	0.56
2:B:922:UNK:C	2:B:924:UNK:N	2.68	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:493:UNK:O	1:D:495:UNK:N	2.39	0.56
1:D:901:MET:O	1:D:901:MET:HG2	2.06	0.56
2:E:1961:UNK:O	2:E:1963:UNK:N	2.39	0.56
2:B:16:LEU:HG	2:E:20:LEU:HD21	1.87	0.56
2:E:334:VAL:O	2:E:420:PHE:CD2	2.56	0.56
2:E:41:LEU:HD22	2:E:47:GLY:N	2.20	0.56
2:E:494:THR:HB	2:E:520:LYS:HZ2	1.68	0.56
2:E:916:UNK:O	2:E:920:UNK:N	2.39	0.56
1:D:1685:TYR:HE2	2:E:966:UNK:CB	2.19	0.56
3:F:27:UNK:C	3:F:29:UNK:N	2.68	0.56
1:G:1122:ILE:HA	1:G:1182:ASP:O	2.06	0.56
1:G:1685:TYR:CD1	1:G:1685:TYR:O	2.58	0.56
1:G:1711:GLU:CG	1:G:1715:TYR:HE1	2.10	0.56
1:G:893:VAL:O	1:G:895:THR:N	2.34	0.56
2:H:1762:TYR:CD1	2:H:1763:THR:N	2.73	0.56
2:H:1788:ALA:O	2:H:1792:LEU:HG	2.06	0.56
2:H:241:ILE:HG22	2:H:242:GLY:H	1.70	0.56
2:H:1664:UNK:HA	3:I:18:UNK:CB	2.34	0.56
1:A:1028:GLY:HA3	1:A:1591:TRP:HZ2	1.71	0.56
1:A:1031:GLY:O	1:A:1032:SER:C	2.45	0.56
1:A:1067:LEU:CG	1:A:1073:THR:HG23	2.25	0.56
1:A:1101:SER:O	1:A:1103:ILE:N	2.39	0.56
1:A:1327:CYS:HB3	1:A:1387:ILE:HD11	1.88	0.56
1:A:1463:VAL:HG12	1:A:1464:GLU:N	2.21	0.56
1:A:797:THR:O	1:A:800:LEU:N	2.39	0.56
2:B:148:ALA:HB1	2:B:154:ALA:HB3	1.87	0.56
2:B:1859:PRO:HB3	2:B:1863:ALA:CB	2.36	0.56
2:B:1924:ILE:C	2:B:1926:GLU:H	2.08	0.56
2:B:490:TRP:CH2	2:B:512:LEU:HD13	2.41	0.56
2:B:541:TYR:O	2:B:543:PHE:N	2.32	0.56
2:B:969:UNK:O	2:B:970:UNK:C	2.54	0.56
1:D:1012:LEU:HD11	1:D:1015:LEU:HD12	1.88	0.56
1:D:1455:ARG:HG3	1:D:1459:ILE:HG21	1.88	0.56
1:D:1464:GLU:HG2	1:D:1773:UNK:N	2.21	0.56
1:D:1722:VAL:CB	1:D:1731:LEU:HG	2.35	0.56
1:D:901:MET:CE	1:D:905:LEU:HD23	2.36	0.56
2:E:1379:UNK:HA	2:E:1425:UNK:O	2.06	0.56
2:E:528:ILE:H	2:E:541:TYR:HB2	1.69	0.56
1:G:1096:SER:C	1:G:1098:LEU:N	2.59	0.56
1:G:1140:THR:HA	1:G:1165:VAL:HB	1.87	0.56
1:G:1340:SER:O	1:G:1341:PHE:CB	2.53	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1462:TRP:HA	1:G:1465:ASN:HB3	1.88	0.56
1:G:1539:ALA:HA	1:G:1640:SER:O	2.05	0.56
1:G:1599:ILE:O	1:G:1600:LEU:O	2.24	0.56
1:G:1394:LEU:HD11	1:G:1661:LEU:CD2	2.35	0.56
1:G:445:UNK:O	1:G:447:UNK:N	2.38	0.56
1:G:679:LEU:HA	1:G:704:VAL:O	2.06	0.56
2:H:135:ARG:N	2:H:136:PRO:HD3	2.21	0.56
2:H:1789:PHE:O	2:H:1792:LEU:N	2.36	0.56
2:H:2036:UNK:C	2:H:2038:UNK:N	2.67	0.56
2:H:347:GLU:O	2:H:351:ASP:N	2.39	0.56
1:A:1126:ILE:CG2	1:A:1127:VAL:N	2.69	0.56
1:A:1138:LYS:O	1:A:1139:GLU:HB3	2.05	0.56
1:A:1188:GLN:O	1:A:1189:ILE:HD13	2.06	0.56
1:A:1274:ILE:C	1:A:1276:GLN:H	2.07	0.56
1:A:1403:ILE:O	1:A:1655:VAL:HG22	2.06	0.56
1:A:412:UNK:C	1:A:414:UNK:N	2.69	0.56
1:A:752:ILE:CA	1:A:761:LEU:HD23	2.26	0.56
1:A:907:GLY:O	1:A:909:LEU:N	2.39	0.56
2:B:1019:UNK:C	2:B:1021:UNK:N	2.68	0.56
2:B:357:ASN:HA	2:B:360:LEU:HB2	1.88	0.56
2:B:474:SER:O	2:B:475:ILE:HB	2.06	0.56
2:B:577:UNK:O	2:B:578:UNK:C	2.52	0.56
2:B:582:UNK:O	2:B:583:UNK:CB	2.54	0.56
2:B:63:LYS:O	2:B:66:GLY:N	2.39	0.56
1:D:1261:PHE:HD2	1:D:1261:PHE:N	2.03	0.56
1:D:1299:LYS:O	1:D:1300:THR:HB	2.06	0.56
1:D:1188:GLN:NE2	1:D:1352:THR:OG1	2.26	0.56
1:D:1553:GLU:CA	1:D:1556:THR:HB	2.36	0.56
1:D:1378:GLU:HA	1:D:1583:HIS:CB	2.35	0.56
1:D:1636:VAL:HG13	1:D:1657:HIS:CD2	2.40	0.56
1:D:394:UNK:O	1:D:395:UNK:C	2.54	0.56
1:D:635:UNK:O	1:D:636:UNK:CB	2.54	0.56
1:D:680:ILE:HA	1:D:769:ILE:HG23	1.88	0.56
1:D:710:PHE:HD1	1:D:736:PRO:HB3	1.69	0.56
2:E:1539:UNK:O	2:E:1540:UNK:C	2.53	0.56
2:E:183:LEU:O	2:E:184:VAL:HB	2.06	0.56
2:E:915:UNK:O	2:E:917:UNK:N	2.39	0.56
1:G:1057:MET:CE	1:G:1106:ILE:HD11	2.36	0.56
1:G:1068:LYS:O	1:G:1069:GLY:O	2.24	0.56
1:G:1101:SER:O	1:G:1103:ILE:N	2.39	0.56
1:G:1299:LYS:O	1:G:1300:THR:HB	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1425:ILE:HG22	1:G:1425:ILE:O	2.06	0.56
1:G:1455:ARG:HG3	1:G:1459:ILE:HG21	1.88	0.56
1:G:1471:LYS:HA	1:G:1474:ALA:HB2	1.88	0.56
1:G:1538:VAL:HA	1:G:1573:ILE:O	2.06	0.56
1:G:418:UNK:O	1:G:419:UNK:C	2.53	0.56
1:G:771:PHE:CD1	1:G:771:PHE:N	2.73	0.56
2:H:1770:LEU:C	2:H:1772:SER:N	2.59	0.56
2:H:541:TYR:O	2:H:543:PHE:N	2.33	0.56
2:H:56:THR:HA	2:H:59:GLU:HG2	1.88	0.56
1:A:1200:ILE:HD12	1:A:1698:PHE:CE2	2.41	0.55
1:A:1349:THR:HG22	1:A:1350:SER:N	2.21	0.55
1:A:1536:LEU:CD1	1:A:1536:LEU:H	2.11	0.55
2:B:1842:VAL:O	2:B:1842:VAL:HG12	2.05	0.55
2:B:1867:SER:HA	2:B:1870:ALA:CB	2.36	0.55
2:B:1927:LEU:HA	2:B:1930:SER:CB	2.36	0.55
2:B:1948:UNK:O	2:B:1949:UNK:CB	2.53	0.55
2:B:382:PRO:HG2	2:B:385:SER:OG	2.05	0.55
1:D:1151:LYS:CG	1:D:1175:ILE:HD13	2.36	0.55
1:D:1447:TYR:C	1:D:1449:LYS:N	2.59	0.55
1:D:1511:ASP:O	1:D:1512:PHE:C	2.42	0.55
1:D:1332:TYR:HA	1:D:1587:ALA:HB2	1.88	0.55
1:D:705:VAL:HG23	1:D:732:LEU:HD11	1.88	0.55
1:D:771:PHE:N	1:D:771:PHE:HD1	2.04	0.55
1:D:907:GLY:O	1:D:909:LEU:N	2.39	0.55
2:E:1672:GLN:HE21	2:E:1777:THR:HG21	1.69	0.55
2:E:395:LYS:O	2:E:396:ALA:HB2	2.06	0.55
1:G:1151:LYS:HG3	1:G:1175:ILE:CD1	2.37	0.55
1:G:1475:GLU:O	1:G:1478:PRO:HD2	2.07	0.55
1:G:1530:GLY:O	1:G:1531:LEU:O	2.24	0.55
1:G:1426:LEU:HD13	1:G:1651:GLY:N	2.21	0.55
1:G:1654:ILE:CG1	1:G:1655:VAL:N	2.69	0.55
1:G:1656:VAL:HG22	1:G:1657:HIS:N	2.20	0.55
1:G:1464:GLU:HG2	1:G:1773:UNK:N	2.21	0.55
1:G:471:UNK:HA	1:G:474:UNK:CB	2.36	0.55
2:H:1328:UNK:O	2:H:1332:UNK:N	2.39	0.55
1:A:1036:ARG:HD3	1:A:1037:TRP:N	2.21	0.55
1:A:1387:ILE:O	1:A:1387:ILE:HD12	2.06	0.55
1:A:1600:LEU:O	1:A:1601:ASN:C	2.44	0.55
1:A:574:UNK:C	1:A:576:UNK:N	2.62	0.55
1:A:584:UNK:O	1:A:585:UNK:O	2.24	0.55
1:A:769:ILE:HB	1:A:823:ILE:CD1	2.36	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:917:CYS:SG	1:A:922:VAL:HB	2.46	0.55
1:A:927:ASN:ND2	1:A:931:GLN:H	2.03	0.55
2:B:1483:UNK:O	2:B:1484:UNK:CB	2.55	0.55
2:B:1753:LYS:O	2:B:1755:ILE:HG12	2.06	0.55
2:B:214:ASN:C	2:B:216:LEU:H	2.09	0.55
2:B:335:PRO:HA	2:B:420:PHE:CE2	2.40	0.55
1:D:1205:ILE:O	1:D:1205:ILE:HG13	2.05	0.55
1:D:584:UNK:O	1:D:585:UNK:O	2.24	0.55
1:D:755:THR:HG22	1:D:757:LYS:N	2.07	0.55
1:D:949:GLU:O	1:D:953:VAL:HG23	2.07	0.55
2:E:1804:PHE:CE2	2:E:1818:LEU:HB2	2.41	0.55
2:E:1912:ASN:O	2:E:1913:VAL:HG22	2.06	0.55
2:E:40:ILE:HG22	2:E:40:ILE:O	2.05	0.55
1:G:1036:ARG:HD3	1:G:1037:TRP:N	2.21	0.55
1:G:1189:ILE:CD1	1:G:1352:THR:HG23	2.34	0.55
1:G:1364:GLU:OE1	1:G:1367:ARG:NH1	2.39	0.55
1:G:1398:VAL:HG12	1:G:1673:TYR:CE1	2.37	0.55
1:G:1447:TYR:C	1:G:1449:LYS:N	2.59	0.55
1:G:1463:VAL:HG12	1:G:1464:GLU:N	2.20	0.55
1:G:1332:TYR:HA	1:G:1587:ALA:HB2	1.87	0.55
2:H:1019:UNK:C	2:H:1021:UNK:N	2.69	0.55
2:H:1162:UNK:C	2:H:1164:UNK:H	2.18	0.55
2:H:144:ALA:C	2:H:146:PHE:N	2.56	0.55
2:H:1458:UNK:C	2:H:1460:UNK:N	2.68	0.55
2:H:1705:SER:OG	2:H:1708:ASP:HB2	2.06	0.55
2:H:184:VAL:O	2:H:188:ILE:HG12	2.06	0.55
2:H:384:GLN:O	2:H:385:SER:C	2.42	0.55
2:H:273:HIS:CB	2:H:512:LEU:HD11	2.36	0.55
3:I:61:UNK:O	3:I:62:UNK:CB	2.55	0.55
1:A:1094:GLU:HG3	1:A:1095:THR:N	2.22	0.55
1:A:1099:GLU:O	1:A:1101:SER:N	2.39	0.55
1:A:1308:SER:OG	1:A:1590:ALA:N	2.34	0.55
1:A:1419:PRO:O	1:A:1420:ALA:HB2	2.06	0.55
1:A:1444:ASN:N	1:A:1444:ASN:ND2	2.49	0.55
1:A:1511:ASP:O	1:A:1512:PHE:C	2.44	0.55
1:A:1525:ALA:C	1:A:1527:ALA:H	2.09	0.55
1:A:1562:LYS:HZ3	1:A:1621:PHE:HZ	1.51	0.55
1:A:1583:HIS:CD2	1:A:1584:PRO:HA	2.41	0.55
1:A:1658:PRO:O	1:A:1660:TYR:N	2.36	0.55
1:A:537:UNK:CB	1:A:585:UNK:CB	2.84	0.55
1:A:679:LEU:CD1	1:A:679:LEU:O	2.54	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:693:LEU:O	1:A:694:GLN:C	2.45	0.55
2:B:100:ASP:OD1	2:B:102:HIS:N	2.40	0.55
2:B:59:GLU:OE1	2:B:122:LEU:HG	2.05	0.55
2:B:170:PHE:CB	2:B:231:LEU:HD21	2.37	0.55
2:B:26:SER:O	2:B:29:ILE:HG22	2.07	0.55
2:B:347:GLU:O	2:B:351:ASP:N	2.38	0.55
2:B:527:VAL:HG22	2:B:540:ASP:O	2.05	0.55
1:D:1045:PHE:HB3	1:D:1050:CYS:N	2.21	0.55
1:D:1104:ARG:O	1:D:1105:LEU:CG	2.55	0.55
1:D:1408:ALA:HA	1:D:1652:GLN:O	2.06	0.55
1:D:1471:LYS:HA	1:D:1474:ALA:HB2	1.88	0.55
1:D:1532:THR:C	1:D:1534:ASP:N	2.58	0.55
1:D:723:ALA:O	1:D:724:LYS:HB2	2.06	0.55
2:E:1066:UNK:O	2:E:1067:UNK:O	2.23	0.55
2:E:1871:LEU:C	2:E:1873:TYR:H	2.10	0.55
2:E:1924:ILE:C	2:E:1926:GLU:H	2.10	0.55
2:E:1948:UNK:O	2:E:1949:UNK:CB	2.54	0.55
2:E:932:UNK:O	2:E:934:UNK:N	2.39	0.55
1:G:1041:ALA:O	1:G:1627:PRO:HG3	2.06	0.55
1:G:1052:GLU:O	1:G:1056:ILE:HG13	2.06	0.55
1:G:1119:LYS:C	1:G:1121:MET:N	2.60	0.55
1:G:1412:ASP:HB2	1:G:1425:ILE:C	2.26	0.55
1:G:884:ILE:CG2	1:G:887:GLY:HA3	2.36	0.55
2:H:1721:PHE:CD1	2:H:1721:PHE:N	2.73	0.55
2:H:1754:GLU:C	2:H:1756:ASN:H	2.09	0.55
2:H:1867:SER:HA	2:H:1870:ALA:CB	2.36	0.55
2:H:1924:ILE:C	2:H:1926:GLU:H	2.09	0.55
2:H:222:PRO:HA	2:H:225:THR:OG1	2.05	0.55
2:H:40:ILE:O	2:H:40:ILE:HG22	2.07	0.55
1:A:1008:GLU:C	1:A:1010:GLU:N	2.59	0.55
1:A:1068:LYS:O	1:A:1069:GLY:O	2.25	0.55
1:A:1158:PRO:O	1:A:1167:LEU:HB3	2.05	0.55
1:A:1245:ASN:ND2	1:A:1288:ASN:ND2	2.54	0.55
1:A:1403:ILE:HD11	1:A:1529:TYR:OH	2.06	0.55
2:B:1322:UNK:O	2:B:1324:UNK:N	2.40	0.55
2:B:1714:PRO:O	2:B:1715:VAL:O	2.25	0.55
2:B:1758:HIS:CD2	2:B:1759:SER:H	2.23	0.55
2:B:209:PHE:CD2	2:B:213:LEU:HD22	2.42	0.55
2:B:351:ASP:O	2:B:354:ASN:HB2	2.06	0.55
1:D:1011:GLY:O	1:D:1663:GLY:HA3	2.05	0.55
1:D:1158:PRO:O	1:D:1167:LEU:HB3	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1577:GLN:OE1	1:D:1592:MET:HA	2.06	0.55
1:D:1412:ASP:O	1:D:1648:GLN:OE1	2.24	0.55
1:D:866:GLY:O	1:D:867:ALA:CB	2.53	0.55
2:E:1295:UNK:C	2:E:1297:UNK:N	2.65	0.55
2:E:1458:UNK:C	2:E:1460:UNK:N	2.68	0.55
2:E:238:CYS:N	2:E:239:PRO:HD2	2.22	0.55
2:E:259:THR:CG2	2:E:260:PRO:HD2	2.36	0.55
2:E:49:ALA:N	2:E:118:LYS:HZ2	2.04	0.55
2:E:678:UNK:O	2:E:682:UNK:N	2.39	0.55
2:E:69:SER:HA	2:E:80:PHE:CB	2.35	0.55
3:F:11:UNK:C	3:F:13:UNK:N	2.69	0.55
1:G:1127:VAL:HG21	1:G:1180:ARG:HG3	1.88	0.55
1:G:1397:GLY:H	1:G:1676:LYS:CB	2.20	0.55
1:G:1553:GLU:HA	1:G:1556:THR:HB	1.88	0.55
1:G:998:TYR:O	1:G:999:LYS:O	2.24	0.55
2:H:1455:UNK:O	2:H:1457:UNK:N	2.39	0.55
2:H:1705:SER:O	2:H:1709:ILE:HG12	2.07	0.55
2:H:264:ARG:HD3	2:H:286:THR:O	2.07	0.55
2:H:333:GLY:O	2:H:334:VAL:C	2.43	0.55
2:H:59:GLU:OE1	2:H:122:LEU:HG	2.06	0.55
1:A:1067:LEU:CG	1:A:1068:LYS:N	2.67	0.55
1:A:1079:LYS:HG2	1:A:1080:THR:N	2.20	0.55
1:A:1475:GLU:O	1:A:1478:PRO:HD2	2.06	0.55
1:A:1546:THR:CG2	1:A:1549:ASN:HB3	2.37	0.55
1:A:1599:ILE:O	1:A:1600:LEU:O	2.24	0.55
1:A:1641:ILE:HD11	1:A:1653:ALA:O	2.07	0.55
1:A:1697:LEU:CD1	1:A:1697:LEU:H	2.03	0.55
1:A:723:ALA:O	1:A:724:LYS:HB2	2.07	0.55
1:A:774:ILE:HD13	1:A:775:PRO:HD2	1.88	0.55
1:A:927:ASN:O	1:A:929:GLY:N	2.35	0.55
2:B:1672:GLN:HB2	2:B:1676:MET:CE	2.36	0.55
2:B:267:LEU:HG	2:B:268:LYS:H	1.71	0.55
3:C:11:UNK:C	3:C:13:UNK:N	2.69	0.55
1:D:1030:TRP:HB2	1:D:1036:ARG:HB3	1.89	0.55
1:D:1101:SER:O	1:D:1103:ILE:N	2.39	0.55
1:D:1118:LYS:HG3	1:D:1120:GLU:HG2	1.88	0.55
1:D:1131:LEU:CA	1:D:1173:LEU:HD22	2.35	0.55
1:D:1214:PHE:C	1:D:1218:SER:HG	2.10	0.55
1:D:1208:VAL:HG12	1:D:1286:TRP:CZ3	2.41	0.55
1:D:1335:PHE:HE1	1:D:1340:SER:CB	2.10	0.55
1:D:1381:GLY:O	1:D:1382:ALA:HB2	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1691:GLY:O	1:D:1695:ASN:N	2.40	0.55
1:D:453:UNK:C	1:D:455:UNK:N	2.68	0.55
1:D:890:LYS:O	1:D:892:GLY:N	2.35	0.55
2:E:1141:UNK:O	2:E:1142:UNK:CB	2.54	0.55
2:E:1:MET:CB	2:E:11:LEU:HB2	2.29	0.55
2:E:1650:UNK:C	2:E:1652:UNK:N	2.69	0.55
2:E:1685:LYS:HA	2:E:1688:GLN:HB2	1.89	0.55
2:E:350:GLN:O	2:E:351:ASP:C	2.45	0.55
2:E:601:UNK:HA	2:E:604:UNK:CB	2.35	0.55
2:E:922:UNK:C	2:E:924:UNK:N	2.67	0.55
2:E:969:UNK:O	2:E:970:UNK:C	2.55	0.55
3:F:61:UNK:O	3:F:62:UNK:CB	2.55	0.55
1:G:1012:LEU:CD1	1:G:1015:LEU:HD12	2.36	0.55
1:G:1208:VAL:HB	1:G:1212:THR:HG21	1.87	0.55
1:G:1471:LYS:O	1:G:1474:ALA:HB2	2.07	0.55
1:G:1542:HIS:HA	1:G:1578:LYS:HE2	1.87	0.55
1:G:1542:HIS:HB2	1:G:1592:MET:HE1	1.87	0.55
1:G:803:MET:HB3	1:G:862:LEU:HD11	1.89	0.55
1:G:871:TRP:HZ2	1:G:881:ASN:HB2	1.71	0.55
1:G:904:ASN:O	1:G:905:LEU:C	2.45	0.55
1:G:970:GLY:O	1:G:971:ASN:HB2	2.06	0.55
2:H:1264:UNK:O	2:H:1266:UNK:N	2.40	0.55
2:H:1322:UNK:O	2:H:1324:UNK:N	2.39	0.55
2:H:1469:UNK:N	2:H:1493:UNK:O	2.38	0.55
2:H:1672:GLN:HB2	2:H:1676:MET:CE	2.36	0.55
2:H:350:GLN:O	2:H:351:ASP:C	2.44	0.55
2:H:60:LEU:HD12	2:H:60:LEU:H	1.72	0.55
3:I:18:UNK:O	3:I:19:UNK:CB	2.54	0.55
1:A:1084:VAL:C	1:A:1086:ASP:N	2.57	0.55
1:A:1144:PHE:O	1:A:1145:LYS:C	2.44	0.55
1:A:1205:ILE:HG13	1:A:1205:ILE:O	2.06	0.55
1:A:1215:VAL:HG11	1:A:1283:MET:CG	2.37	0.55
1:A:1532:THR:OG1	1:A:1535:ASP:CB	2.55	0.55
1:A:928:GLY:C	1:A:930:LEU:N	2.59	0.55
2:B:1340:UNK:O	2:B:1341:UNK:C	2.54	0.55
2:B:13:His:C	2:B:15:SER:H	2.09	0.55
2:B:1485:UNK:HA	2:B:1512:UNK:HA	1.87	0.55
2:B:1539:UNK:O	2:B:1540:UNK:C	2.53	0.55
2:B:1705:SER:OG	2:B:1708:ASP:HB2	2.07	0.55
2:B:1788:ALA:O	2:B:1792:LEU:HG	2.07	0.55
2:B:187:LEU:CD2	2:B:296:VAL:HG11	2.37	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:234:ILE:HD11	2:B:307:GLY:HA2	1.89	0.55
2:B:273:HIS:CB	2:B:512:LEU:HD11	2.36	0.55
2:B:678:UNK:O	2:B:682:UNK:N	2.39	0.55
1:D:1014:ASP:O	1:D:1015:LEU:O	2.25	0.55
1:D:1464:GLU:HA	1:D:1467:LEU:CD1	2.27	0.55
1:D:1403:ILE:CG2	1:D:1656:VAL:O	2.55	0.55
1:D:769:ILE:HB	1:D:823:ILE:CD1	2.36	0.55
2:E:1714:PRO:O	2:E:1715:VAL:O	2.25	0.55
2:E:1789:PHE:CZ	2:E:1818:LEU:HD23	2.41	0.55
2:E:242:GLY:HA2	2:E:245:GLN:NE2	2.16	0.55
1:G:1187:GLY:N	1:G:1188:GLN:NE2	2.55	0.55
1:G:1187:GLY:O	1:G:1189:ILE:HG12	2.06	0.55
1:G:1198:TYR:CE2	1:G:1217:VAL:HG11	2.42	0.55
1:G:1392:LEU:H	1:G:1392:LEU:CD2	2.18	0.55
1:G:1403:ILE:HD11	1:G:1529:TYR:OH	2.06	0.55
1:G:1430:ARG:CG	1:G:1431:GLU:H	2.17	0.55
1:G:1459:ILE:HD12	1:G:1460:LYS:N	2.22	0.55
1:G:1717:ASP:C	1:G:1719:LEU:N	2.60	0.55
1:G:873:ARG:NH1	1:G:883:ILE:N	2.55	0.55
2:H:1715:VAL:CG2	2:H:1716:ASN:H	2.07	0.55
2:H:1799:PRO:O	2:H:1801:ASP:N	2.40	0.55
2:H:1698:PHE:HE1	2:H:1828:VAL:CG2	2.19	0.55
2:H:466:SER:C	2:H:468:LEU:N	2.60	0.55
2:H:699:UNK:O	2:H:700:UNK:C	2.52	0.55
2:H:587:UNK:O	2:H:784:UNK:CB	2.54	0.55
2:H:932:UNK:O	2:H:934:UNK:N	2.39	0.55
1:A:1119:LYS:C	1:A:1121:MET:N	2.59	0.55
1:A:1057:MET:HE3	1:A:1193:TRP:O	2.07	0.55
1:A:1359:GLY:O	1:A:1360:ARG:O	2.25	0.55
1:A:1394:LEU:HD11	1:A:1661:LEU:CD2	2.37	0.55
1:A:1659:ASP:C	1:A:1661:LEU:H	2.09	0.55
1:A:547:UNK:O	1:A:549:UNK:N	2.40	0.55
1:A:771:PHE:CE1	1:A:825:PRO:HD3	2.42	0.55
1:A:949:GLU:O	1:A:953:VAL:HG23	2.06	0.55
2:B:1307:UNK:C	2:B:1309:UNK:N	2.70	0.55
2:B:132:MET:O	2:B:133:ALA:HB3	2.06	0.55
2:B:1770:LEU:C	2:B:1772:SER:N	2.60	0.55
2:B:273:HIS:HB3	2:B:512:LEU:HD11	1.89	0.55
2:B:292:PHE:O	2:B:295:SER:HB3	2.07	0.55
2:B:319:LEU:HD21	2:B:335:PRO:HG3	1.87	0.55
2:B:404:GLN:HG3	2:B:408:PRO:CG	2.31	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:426:PRO:O	2:B:429:SER:HB3	2.06	0.55
2:B:473:GLY:O	2:B:477:GLU:HB3	2.05	0.55
2:B:483:ILE:CG2	2:B:484:ILE:HG23	2.32	0.55
2:B:916:UNK:O	2:B:920:UNK:N	2.40	0.55
1:D:1370:THR:O	1:D:1371:THR:HB	2.06	0.55
1:D:1463:VAL:HG12	1:D:1464:GLU:N	2.21	0.55
1:D:1600:LEU:O	1:D:1601:ASN:C	2.43	0.55
1:D:804:GLY:O	1:D:807:LYS:HB3	2.07	0.55
2:E:1455:UNK:O	2:E:1457:UNK:N	2.39	0.55
2:E:1469:UNK:N	2:E:1493:UNK:O	2.39	0.55
2:E:187:LEU:CD2	2:E:296:VAL:HG11	2.37	0.55
2:E:2038:UNK:HA	2:E:2041:UNK:CB	2.37	0.55
2:E:264:ARG:HD3	2:E:286:THR:O	2.06	0.55
2:E:382:PRO:HG2	2:E:385:SER:OG	2.06	0.55
2:E:474:SER:O	2:E:475:ILE:HB	2.07	0.55
2:E:56:THR:HA	2:E:59:GLU:HG2	1.89	0.55
2:E:699:UNK:O	2:E:700:UNK:C	2.53	0.55
1:G:1152:VAL:C	1:G:1154:ILE:N	2.60	0.55
1:G:1250:GLY:HA3	1:G:1333:ASP:OD2	2.06	0.55
1:G:1558:ASN:ND2	1:G:1620:GLN:HB3	2.22	0.55
1:G:1690:ASN:O	1:G:1693:ILE:HG12	2.07	0.55
1:G:917:CYS:SG	1:G:922:VAL:HB	2.46	0.55
2:H:1845:ASP:C	2:H:1847:LEU:H	2.10	0.55
2:H:187:LEU:CD2	2:H:296:VAL:HG11	2.36	0.55
2:H:494:THR:HB	2:H:520:LYS:HZ1	1.72	0.55
2:H:540:ASP:HB2	2:H:544:LYS:HZ2	1.71	0.55
2:H:78:GLY:O	2:H:79:GLN:C	2.44	0.55
1:A:1502:ARG:O	1:A:1505:GLN:N	2.40	0.55
1:A:460:UNK:C	1:A:462:UNK:N	2.68	0.55
1:A:489:UNK:O	1:A:490:UNK:C	2.53	0.55
1:A:970:GLY:O	1:A:971:ASN:HB2	2.07	0.55
2:B:1844:ARG:HG2	2:B:1850:SER:HA	1.89	0.55
2:B:466:SER:C	2:B:468:LEU:N	2.61	0.55
2:B:56:THR:HA	2:B:59:GLU:HG2	1.88	0.55
1:D:1096:SER:C	1:D:1098:LEU:N	2.61	0.55
1:D:1105:LEU:HB3	1:D:1111:PHE:HE2	1.72	0.55
1:D:1126:ILE:CG2	1:D:1177:LYS:HB3	2.37	0.55
1:D:1249:SER:OG	1:D:1250:GLY:N	2.39	0.55
1:D:1364:GLU:OE1	1:D:1367:ARG:NH1	2.39	0.55
1:D:1654:ILE:CG1	1:D:1655:VAL:N	2.70	0.55
2:E:1605:UNK:O	2:E:1607:UNK:N	2.29	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:1762:TYR:C	2:E:1763:THR:HG1	2.09	0.55
2:E:184:VAL:O	2:E:188:ILE:HG12	2.06	0.55
2:E:1867:SER:HA	2:E:1870:ALA:CB	2.35	0.55
2:E:535:ILE:HG22	2:E:536:ASN:OD1	2.07	0.55
2:E:755:UNK:O	2:E:756:UNK:CB	2.55	0.55
2:E:799:UNK:O	2:E:800:UNK:C	2.53	0.55
1:G:1600:LEU:O	1:G:1601:ASN:C	2.44	0.55
1:G:999:LYS:HD3	1:G:1671:ASN:HD21	1.70	0.55
2:H:98:GLY:O	2:H:100:ASP:N	2.37	0.55
2:H:1485:UNK:HA	2:H:1512:UNK:HA	1.89	0.55
2:H:1907:LEU:HD23	2:H:1907:LEU:N	2.21	0.55
2:H:306:ILE:O	2:H:310:CYS:SG	2.65	0.55
2:H:351:ASP:O	2:H:354:ASN:HB2	2.07	0.55
2:H:273:HIS:HB3	2:H:512:LEU:HD11	1.89	0.55
3:I:27:UNK:C	3:I:29:UNK:N	2.68	0.55
2:B:1141:UNK:O	2:B:1142:UNK:CB	2.54	0.55
2:B:1789:PHE:CE1	2:B:1818:LEU:HD23	2.42	0.55
2:B:1961:UNK:O	2:B:1963:UNK:N	2.39	0.55
2:B:202:THR:O	2:B:203:LEU:C	2.46	0.55
2:B:251:VAL:O	2:B:255:LEU:HB3	2.06	0.55
2:B:431:LEU:HD23	2:B:431:LEU:N	2.21	0.55
1:D:1151:LYS:HG3	1:D:1175:ILE:CD1	2.37	0.55
1:D:1187:GLY:O	1:D:1189:ILE:HG12	2.07	0.55
1:D:1403:ILE:HG23	1:D:1656:VAL:CG1	2.27	0.55
1:D:239:UNK:O	1:D:241:UNK:N	2.40	0.55
1:D:941:ALA:O	1:D:942:LYS:C	2.44	0.55
2:E:1008:UNK:O	2:E:1011:UNK:N	2.40	0.55
2:E:1166:UNK:C	2:E:1168:UNK:H	2.19	0.55
2:E:1549:UNK:O	2:E:1550:UNK:C	2.54	0.55
2:E:1721:PHE:N	2:E:1721:PHE:CD1	2.74	0.55
2:E:1869:GLU:C	2:E:1871:LEU:N	2.60	0.55
2:E:214:ASN:C	2:E:216:LEU:H	2.11	0.55
2:E:234:ILE:HD11	2:E:307:GLY:HA2	1.87	0.55
2:E:347:GLU:O	2:E:351:ASP:N	2.37	0.55
2:E:339:LEU:HB2	2:E:420:PHE:CD1	2.41	0.55
2:E:335:PRO:HA	2:E:420:PHE:CE2	2.41	0.55
2:E:799:UNK:C	2:E:801:UNK:N	2.66	0.55
3:F:37:UNK:O	3:F:39:UNK:N	2.39	0.55
1:G:1332:TYR:CA	1:G:1587:ALA:HB2	2.37	0.55
1:G:1624:VAL:O	1:G:1625:LEU:HB3	2.06	0.55
1:G:448:UNK:O	1:G:450:UNK:N	2.40	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:644:UNK:C	1:G:646:UNK:N	2.68	0.55
1:G:791:ALA:CA	1:G:794:ILE:HG22	2.35	0.55
1:G:856:GLU:HB2	1:G:858:TRP:HE1	1.71	0.55
2:H:100:ASP:OD1	2:H:102:HIS:N	2.37	0.55
2:H:1299:UNK:O	2:H:1301:UNK:N	2.39	0.55
2:H:1307:UNK:O	2:H:1309:UNK:N	2.39	0.55
2:H:1776:PHE:O	2:H:1777:THR:C	2.45	0.55
2:H:1844:ARG:HG2	2:H:1850:SER:HA	1.89	0.55
2:H:1869:GLU:C	2:H:1871:LEU:N	2.60	0.55
2:H:234:ILE:HD11	2:H:307:GLY:HA2	1.89	0.55
1:A:1127:VAL:HG21	1:A:1180:ARG:HG3	1.88	0.55
1:A:1151:LYS:CD	1:A:1151:LYS:H	2.17	0.55
1:A:1424:GLY:C	1:A:1426:LEU:H	2.09	0.55
2:B:135:ARG:N	2:B:136:PRO:CD	2.70	0.55
2:B:450:PHE:O	2:B:451:ASN:HB2	2.06	0.55
2:B:528:ILE:H	2:B:541:TYR:HB3	1.70	0.55
2:B:841:UNK:C	2:B:843:UNK:N	2.69	0.55
1:D:1103:ILE:O	1:D:1106:ILE:HG13	2.07	0.55
1:D:1258:ARG:NH1	1:D:1263:ASP:OD2	2.40	0.55
1:D:1462:TRP:HA	1:D:1465:ASN:HB3	1.89	0.55
1:D:1735:SER:C	1:D:1737:ASN:N	2.60	0.55
1:D:704:VAL:HG22	1:D:733:ILE:HB	1.89	0.55
1:D:873:ARG:NH1	1:D:883:ILE:N	2.55	0.55
1:D:687:SER:HB2	1:D:899:LYS:CE	2.37	0.55
1:D:687:SER:HB2	1:D:899:LYS:HE3	1.88	0.55
1:D:999:LYS:HD3	1:D:1671:ASN:HD21	1.72	0.55
2:E:100:ASP:OD1	2:E:102:HIS:N	2.37	0.55
2:E:1034:UNK:C	2:E:1036:UNK:H	2.20	0.55
2:E:1562:UNK:O	2:E:1564:UNK:N	2.40	0.55
2:E:1845:ASP:C	2:E:1847:LEU:H	2.11	0.55
2:E:18:His:O	2:E:20:LEU:N	2.39	0.55
2:E:241:ILE:HG22	2:E:242:GLY:H	1.71	0.55
2:E:267:LEU:HG	2:E:268:LYS:H	1.71	0.55
2:E:471:LEU:CG	2:E:472:SER:H	2.01	0.55
1:G:1041:ALA:HA	1:G:1606:PRO:HG3	1.88	0.55
1:G:1174:TYR:O	1:G:1175:ILE:HB	2.06	0.55
1:G:1219:VAL:HA	1:G:1384:ILE:HG21	1.87	0.55
1:G:1261:PHE:N	1:G:1261:PHE:HD2	2.05	0.55
1:G:875:THR:OG1	1:G:879:SER:HB2	2.07	0.55
2:H:1334:UNK:O	2:H:1335:UNK:C	2.54	0.55
2:H:1291:UNK:CB	2:H:1369:UNK:N	2.70	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:357:ASN:HA	2:H:360:LEU:HB2	1.89	0.55
2:H:690:UNK:O	2:H:691:UNK:CB	2.54	0.55
1:A:1041:ALA:HA	1:A:1606:PRO:HG3	1.88	0.54
1:A:1079:LYS:CD	1:A:1098:LEU:HD21	2.34	0.54
1:A:1198:TYR:CE2	1:A:1217:VAL:HG11	2.41	0.54
1:A:1577:GLN:OE1	1:A:1592:MET:HA	2.06	0.54
1:A:364:UNK:O	1:D:365:UNK:CB	2.55	0.54
1:A:755:THR:HG22	1:A:757:LYS:N	2.09	0.54
1:A:791:ALA:HA	1:A:794:ILE:CG2	2.36	0.54
1:A:852:ARG:NH1	1:A:856:GLU:OE1	2.41	0.54
1:A:856:GLU:HB2	1:A:858:TRP:HE1	1.72	0.54
2:B:1455:UNK:O	2:B:1457:UNK:N	2.40	0.54
2:B:1877:ARG:HG2	2:B:1929:LYS:HD2	1.89	0.54
2:B:1877:ARG:HG2	2:B:1929:LYS:CD	2.37	0.54
2:B:222:PRO:HA	2:B:225:THR:OG1	2.07	0.54
1:D:1286:TRP:HA	1:D:1289:MET:CG	2.37	0.54
1:D:1290:LEU:HA	1:D:1701:LYS:HD2	1.89	0.54
1:D:1286:TRP:HD1	1:D:1290:LEU:HD13	1.71	0.54
1:D:1387:ILE:HD12	1:D:1387:ILE:O	2.06	0.54
1:D:1502:ARG:O	1:D:1505:GLN:N	2.40	0.54
1:D:1524:GLY:O	1:D:1527:ALA:HB3	2.06	0.54
1:D:1691:GLY:C	1:D:1697:LEU:HD11	2.28	0.54
1:D:856:GLU:HB2	1:D:858:TRP:HE1	1.72	0.54
1:D:875:THR:OG1	1:D:879:SER:HB2	2.07	0.54
1:D:884:ILE:CG2	1:D:887:GLY:HA3	2.37	0.54
1:D:910:THR:C	1:D:911:PRO:O	2.43	0.54
2:E:1170:UNK:O	2:E:1171:UNK:C	2.55	0.54
2:E:1705:SER:OG	2:E:1708:ASP:HB2	2.06	0.54
2:E:1729:ILE:HG12	2:E:1730:ARG:N	2.22	0.54
2:E:251:VAL:O	2:E:255:LEU:HB3	2.07	0.54
2:E:304:PHE:CE2	2:E:308:VAL:HG21	2.42	0.54
2:E:466:SER:C	2:E:468:LEU:N	2.60	0.54
2:E:68:VAL:HG12	2:E:68:VAL:O	2.07	0.54
2:E:1664:UNK:HA	3:F:18:UNK:CB	2.38	0.54
1:G:1413:LYS:HD2	1:G:1425:ILE:CD1	2.37	0.54
1:G:1607:GLY:O	1:G:1608:ASN:O	2.26	0.54
1:G:1636:VAL:O	1:G:1637:ARG:HB2	2.07	0.54
1:G:412:UNK:C	1:G:414:UNK:N	2.70	0.54
1:G:557:UNK:C	1:G:559:UNK:N	2.68	0.54
1:G:715:THR:HG21	1:G:1364:GLU:OE2	2.06	0.54
1:G:723:ALA:O	1:G:724:LYS:HB2	2.05	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:1340:UNK:O	2:H:1341:UNK:C	2.56	0.54
2:H:1549:UNK:O	2:H:1550:UNK:C	2.55	0.54
2:H:1558:UNK:O	2:H:1559:UNK:C	2.54	0.54
2:H:1693:ARG:HD3	2:H:1825:GLU:OE2	2.07	0.54
3:I:37:UNK:O	3:I:39:UNK:N	2.40	0.54
1:A:1012:LEU:CD1	1:A:1015:LEU:HD12	2.37	0.54
1:A:1364:GLU:OE1	1:A:1367:ARG:NH1	2.40	0.54
1:A:1433:HIS:CE1	1:A:1518:ARG:HH21	2.24	0.54
1:A:1471:LYS:C	1:A:1474:ALA:H	2.11	0.54
1:A:993:PRO:HD3	1:A:1681:GLU:OE2	2.08	0.54
1:A:453:UNK:C	1:A:455:UNK:N	2.69	0.54
1:A:443:UNK:CB	1:A:731:THR:HA	2.37	0.54
1:A:771:PHE:CE2	1:A:825:PRO:HB3	2.41	0.54
1:A:787:LYS:O	1:A:790:PHE:HB3	2.07	0.54
1:A:836:ASP:OD1	1:A:839:TYR:N	2.40	0.54
1:A:912:GLU:O	1:A:913:VAL:C	2.46	0.54
1:A:957:VAL:HG12	1:A:961:THR:OG1	2.07	0.54
2:B:1225:UNK:O	2:B:1226:UNK:CB	2.55	0.54
2:B:1698:PHE:C	2:B:1700:ASP:N	2.60	0.54
2:B:199:ILE:HG23	2:B:200:ARG:N	2.17	0.54
2:B:535:ILE:HG22	2:B:536:ASN:OD1	2.06	0.54
1:D:1158:PRO:HG2	1:D:1159:GLU:N	2.14	0.54
1:D:1174:TYR:O	1:D:1175:ILE:HB	2.07	0.54
1:D:1187:GLY:N	1:D:1188:GLN:NE2	2.54	0.54
1:D:1741:LYS:C	1:D:1743:SER:H	2.11	0.54
1:D:428:UNK:O	1:D:430:UNK:N	2.40	0.54
1:D:715:THR:HG21	1:D:1364:GLU:OE2	2.07	0.54
2:E:135:ARG:N	2:E:136:PRO:CD	2.70	0.54
2:E:148:ALA:HB1	2:E:154:ALA:HB3	1.89	0.54
2:E:1705:SER:O	2:E:1709:ILE:HG12	2.07	0.54
2:E:265:SER:O	2:E:267:LEU:N	2.40	0.54
2:E:917:UNK:C	2:E:919:UNK:N	2.68	0.54
1:G:1030:TRP:HB2	1:G:1036:ARG:HB3	1.90	0.54
1:G:1184:LEU:HD22	1:G:1341:PHE:CD2	2.37	0.54
1:G:1642:THR:N	1:G:1652:GLN:OE1	2.41	0.54
1:G:1688:PHE:O	1:G:1689:HIS:C	2.45	0.54
1:G:755:THR:HG22	1:G:757:LYS:N	2.04	0.54
1:G:903:PHE:O	1:G:906:LEU:HB3	2.06	0.54
2:H:1170:UNK:O	2:H:1171:UNK:C	2.54	0.54
2:H:1927:LEU:HA	2:H:1930:SER:CB	2.37	0.54
2:H:304:PHE:CE2	2:H:308:VAL:HG21	2.42	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:395:LYS:O	2:H:396:ALA:HB2	2.08	0.54
2:H:408:PRO:HA	2:H:412:ARG:HB2	1.87	0.54
2:H:535:ILE:HG22	2:H:536:ASN:OD1	2.07	0.54
1:A:1110:LEU:CD1	1:A:1188:GLN:N	2.70	0.54
1:A:1286:TRP:HD1	1:A:1290:LEU:HD13	1.71	0.54
1:A:1334:ASP:CG	1:A:1335:PHE:N	2.61	0.54
1:A:1532:THR:C	1:A:1534:ASP:N	2.60	0.54
1:A:771:PHE:N	1:A:771:PHE:HD1	2.05	0.54
2:B:1549:UNK:O	2:B:1550:UNK:C	2.54	0.54
2:B:1558:UNK:O	2:B:1559:UNK:C	2.55	0.54
2:B:1672:GLN:HB3	2:B:1781:LEU:CG	2.38	0.54
2:B:1845:ASP:C	2:B:1847:LEU:H	2.10	0.54
1:D:1118:LYS:HE2	1:D:1337:GLU:CA	2.34	0.54
1:D:1110:LEU:CD1	1:D:1188:GLN:N	2.69	0.54
1:D:1208:VAL:CG2	1:D:1209:ASP:N	2.69	0.54
1:D:1431:GLU:OE1	1:D:1564:LEU:HD13	2.06	0.54
1:D:1525:ALA:C	1:D:1527:ALA:H	2.11	0.54
1:D:1555:ALA:HA	1:D:1558:ASN:HB3	1.88	0.54
1:D:1607:GLY:O	1:D:1608:ASN:O	2.24	0.54
1:D:1397:GLY:H	1:D:1676:LYS:HB3	1.72	0.54
1:D:1690:ASN:O	1:D:1693:ILE:HG12	2.08	0.54
2:E:1672:GLN:HB2	2:E:1676:MET:CE	2.36	0.54
2:E:1770:LEU:C	2:E:1772:SER:N	2.61	0.54
2:E:1799:PRO:O	2:E:1801:ASP:N	2.41	0.54
2:E:676:UNK:O	2:E:677:UNK:C	2.55	0.54
1:G:1073:THR:HG22	1:G:1074:GLY:N	2.22	0.54
1:G:1174:TYR:O	1:G:1175:ILE:CB	2.54	0.54
1:G:1055:TRP:HH2	1:G:1198:TYR:HD1	1.55	0.54
1:G:1284:SER:CB	1:G:1298:ILE:HD11	2.38	0.54
1:G:1666:THR:O	1:G:1667:GLU:HG3	2.08	0.54
1:G:1668:ASP:O	1:G:1670:TYR:N	2.33	0.54
1:G:836:ASP:OD1	1:G:839:TYR:N	2.41	0.54
1:G:901:MET:HG2	1:G:901:MET:O	2.06	0.54
1:G:998:TYR:HD1	1:G:999:LYS:HG2	1.72	0.54
2:H:1685:LYS:HA	2:H:1688:GLN:HB2	1.90	0.54
2:H:184:VAL:C	2:H:186:ASP:N	2.59	0.54
2:H:1887:GLU:CD	2:H:1888:ILE:H	2.11	0.54
2:H:267:LEU:HG	2:H:268:LYS:H	1.70	0.54
2:H:60:LEU:O	2:H:64:PHE:N	2.39	0.54
1:A:1174:TYR:O	1:A:1175:ILE:CB	2.55	0.54
1:A:1431:GLU:OE1	1:A:1564:LEU:HD13	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1536:LEU:CB	1:A:1638:ALA:HB3	2.36	0.54
1:A:1332:TYR:HA	1:A:1587:ALA:HB2	1.88	0.54
1:A:448:UNK:O	1:A:450:UNK:N	2.40	0.54
1:A:651:UNK:O	1:A:653:UNK:N	2.40	0.54
1:A:741:SER:O	1:A:742:LYS:C	2.45	0.54
1:A:873:ARG:NH1	1:A:883:ILE:N	2.55	0.54
1:A:999:LYS:HD3	1:A:1671:ASN:HD21	1.73	0.54
2:B:98:GLY:O	2:B:100:ASP:N	2.38	0.54
2:B:1469:UNK:N	2:B:1493:UNK:O	2.41	0.54
2:B:158:ALA:H	2:B:270:ALA:H	1.55	0.54
2:B:259:THR:CG2	2:B:260:PRO:HD2	2.34	0.54
2:B:408:PRO:HB2	2:B:412:ARG:CD	2.38	0.54
1:D:1126:ILE:CG2	1:D:1127:VAL:N	2.70	0.54
1:D:1412:ASP:HB2	1:D:1425:ILE:C	2.27	0.54
1:D:1553:GLU:HA	1:D:1556:THR:HB	1.90	0.54
1:D:1730:SER:O	1:D:1731:LEU:C	2.45	0.54
1:D:927:ASN:ND2	1:D:931:GLN:H	2.04	0.54
2:E:122:LEU:HD23	2:E:122:LEU:C	2.28	0.54
2:E:1307:UNK:C	2:E:1309:UNK:N	2.70	0.54
2:E:1429:UNK:O	2:E:1430:UNK:C	2.55	0.54
2:E:1732:ASN:O	2:E:1734:SER:N	2.36	0.54
2:E:1773:ALA:C	2:E:1775:GLN:H	2.11	0.54
2:E:200:ARG:O	2:E:203:LEU:HG	2.07	0.54
2:E:258:PHE:CB	2:E:262:GLU:HB2	2.29	0.54
2:E:267:LEU:HG	2:E:457:ILE:HD12	1.88	0.54
2:E:357:ASN:HA	2:E:360:LEU:HB2	1.89	0.54
2:E:450:PHE:O	2:E:451:ASN:HB2	2.06	0.54
2:E:478:ARG:C	2:E:480:VAL:N	2.61	0.54
2:E:541:TYR:O	2:E:543:PHE:N	2.33	0.54
2:E:762:UNK:O	2:E:763:UNK:CB	2.55	0.54
1:G:1079:LYS:HG2	1:G:1080:THR:N	2.21	0.54
1:G:1079:LYS:CD	1:G:1098:LEU:HD21	2.32	0.54
1:G:1157:ILE:CG2	1:G:1158:PRO:HD2	2.21	0.54
1:G:1447:TYR:HE2	1:G:1450:ARG:CG	2.18	0.54
1:G:1433:HIS:CE1	1:G:1518:ARG:HH21	2.25	0.54
1:G:1659:ASP:C	1:G:1661:LEU:H	2.09	0.54
1:G:1692:MET:CA	1:G:1697:LEU:HD11	2.37	0.54
1:G:696:LEU:HD23	1:G:696:LEU:H	1.73	0.54
1:G:808:LYS:O	1:G:809:GLN:C	2.46	0.54
2:H:1672:GLN:HE21	2:H:1777:THR:CG2	2.19	0.54
2:H:1828:VAL:HG13	2:H:1829:GLU:N	2.20	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:2038:UNK:HA	2:H:2041:UNK:CB	2.38	0.54
2:H:203:LEU:HD23	2:H:206:GLU:OE2	2.07	0.54
2:H:382:PRO:HG2	2:H:385:SER:OG	2.07	0.54
2:H:387:TYR:O	2:H:390:ASN:HB2	2.08	0.54
2:H:334:VAL:O	2:H:420:PHE:CD2	2.58	0.54
2:H:450:PHE:O	2:H:451:ASN:HB2	2.08	0.54
1:A:1248:GLY:O	1:A:1300:THR:HG23	2.06	0.54
1:A:1249:SER:OG	1:A:1250:GLY:N	2.40	0.54
1:A:1425:ILE:O	1:A:1425:ILE:HG22	2.08	0.54
1:A:1462:TRP:HA	1:A:1465:ASN:HB3	1.89	0.54
1:A:1691:GLY:C	1:A:1697:LEU:HD11	2.28	0.54
1:A:1722:VAL:CB	1:A:1731:LEU:HG	2.38	0.54
1:A:742:LYS:HB2	1:A:746:GLU:HG3	1.90	0.54
1:A:774:ILE:CD1	1:A:775:PRO:HD2	2.38	0.54
1:A:791:ALA:O	1:A:795:MET:N	2.32	0.54
1:A:687:SER:HB2	1:A:899:LYS:CE	2.37	0.54
2:B:593:UNK:O	2:B:595:UNK:N	2.40	0.54
2:B:799:UNK:O	2:B:800:UNK:C	2.55	0.54
1:D:1073:THR:HG22	1:D:1074:GLY:N	2.20	0.54
1:D:1705:PRO:HG2	1:D:1706:TYR:H	1.71	0.54
1:D:741:SER:O	1:D:742:LYS:C	2.45	0.54
1:D:871:TRP:HZ2	1:D:881:ASN:HB2	1.72	0.54
1:D:912:GLU:O	1:D:916:LEU:N	2.31	0.54
2:E:1019:UNK:C	2:E:1021:UNK:N	2.69	0.54
2:E:1040:UNK:O	2:E:1041:UNK:CB	2.55	0.54
2:E:1698:PHE:C	2:E:1700:ASP:N	2.61	0.54
2:E:1703:GLY:O	2:E:1721:PHE:HE2	1.88	0.54
2:E:1770:LEU:O	2:E:1772:SER:N	2.37	0.54
2:E:63:LYS:O	2:E:66:GLY:N	2.40	0.54
1:G:1019:ILE:HG13	1:G:1316:VAL:CG2	2.37	0.54
1:G:1084:VAL:C	1:G:1086:ASP:N	2.56	0.54
1:G:1105:LEU:HB3	1:G:1111:PHE:HE2	1.72	0.54
1:G:1158:PRO:HG2	1:G:1159:GLU:N	2.17	0.54
1:G:1464:GLU:HA	1:G:1467:LEU:CD1	2.26	0.54
1:G:1518:ARG:O	1:G:1519:ILE:HB	2.08	0.54
1:G:1604:ILE:HG23	1:G:1630:THR:CA	2.38	0.54
1:G:432:UNK:O	1:G:433:UNK:CB	2.56	0.54
1:G:771:PHE:CE1	1:G:825:PRO:HD3	2.43	0.54
2:H:1539:UNK:O	2:H:1540:UNK:C	2.55	0.54
2:H:1602:UNK:C	2:H:1604:UNK:N	2.67	0.54
2:H:1732:ASN:O	2:H:1734:SER:N	2.37	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:1785:GLU:OE1	2:H:1813:ALA:HB1	2.07	0.54
2:H:214:ASN:O	2:H:216:LEU:N	2.40	0.54
1:A:1056:ILE:C	1:A:1058:GLY:N	2.61	0.54
1:A:1119:LYS:O	1:A:1119:LYS:HD2	2.08	0.54
1:A:1122:ILE:HA	1:A:1182:ASP:O	2.08	0.54
1:A:1158:PRO:HG2	1:A:1159:GLU:N	2.15	0.54
1:A:1174:TYR:O	1:A:1175:ILE:HB	2.07	0.54
1:A:1243:VAL:HG11	1:A:1325:ARG:HD3	1.90	0.54
1:A:1403:ILE:HG23	1:A:1656:VAL:O	2.07	0.54
1:A:1453:VAL:O	1:A:1454:THR:C	2.45	0.54
1:A:1642:THR:HA	1:A:1652:GLN:OE1	2.08	0.54
1:A:635:UNK:O	1:A:636:UNK:CB	2.55	0.54
1:A:710:PHE:HD1	1:A:736:PRO:HB3	1.73	0.54
2:B:1170:UNK:O	2:B:1171:UNK:C	2.55	0.54
2:B:1307:UNK:O	2:B:1309:UNK:N	2.41	0.54
2:B:1732:ASN:O	2:B:1734:SER:N	2.37	0.54
2:B:40:ILE:O	2:B:40:ILE:HG22	2.08	0.54
2:B:77:VAL:HG12	2:B:78:GLY:N	2.22	0.54
1:D:1459:ILE:HD12	1:D:1460:LYS:N	2.22	0.54
1:D:1542:HIS:HA	1:D:1578:LYS:HE2	1.90	0.54
1:D:679:LEU:HD21	1:D:802:MET:CE	2.37	0.54
1:D:873:ARG:HG3	1:D:882:ASN:OD1	2.08	0.54
1:D:905:LEU:HD22	1:D:905:LEU:N	2.18	0.54
2:E:1307:UNK:O	2:E:1309:UNK:N	2.41	0.54
2:E:135:ARG:N	2:E:136:PRO:HD3	2.21	0.54
2:E:1869:GLU:HA	2:E:1872:GLN:CB	2.37	0.54
2:E:273:HIS:CB	2:E:512:LEU:HD11	2.37	0.54
1:G:1036:ARG:CD	1:G:1037:TRP:N	2.71	0.54
1:G:1074:GLY:O	1:G:1075:TRP:HB3	2.08	0.54
1:G:1099:GLU:O	1:G:1101:SER:N	2.40	0.54
1:G:1118:LYS:HG3	1:G:1120:GLU:HG2	1.90	0.54
1:G:1532:THR:C	1:G:1534:ASP:N	2.60	0.54
1:G:1659:ASP:C	1:G:1661:LEU:N	2.60	0.54
1:G:552:UNK:C	1:G:554:UNK:H	2.17	0.54
1:G:651:UNK:O	1:G:653:UNK:N	2.40	0.54
1:G:717:TYR:C	1:G:719:GLN:N	2.60	0.54
1:G:741:SER:O	1:G:742:LYS:C	2.44	0.54
1:G:910:THR:C	1:G:911:PRO:O	2.46	0.54
2:H:1413:UNK:C	2:H:1415:UNK:N	2.69	0.54
2:H:1877:ARG:HG2	2:H:1929:LYS:HD2	1.89	0.54
2:H:1884:TRP:N	2:H:1892:ASN:HB2	2.23	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:1897:GLN:C	2:H:1899:VAL:H	2.09	0.54
2:H:248:HIS:CE1	2:H:530:ALA:HB2	2.43	0.54
2:H:319:LEU:HD21	2:H:335:PRO:HG3	1.89	0.54
1:A:1032:SER:O	1:A:1033:ALA:C	2.44	0.54
1:A:1131:LEU:CB	1:A:1133:PRO:HD3	2.32	0.54
1:A:1156:GLU:HG2	1:A:1169:LYS:HA	1.89	0.54
1:A:1193:TRP:O	1:A:1194:ASN:CB	2.56	0.54
1:A:1219:VAL:HG23	1:A:1328:ILE:HD11	1.90	0.54
1:A:1286:TRP:HA	1:A:1289:MET:CG	2.37	0.54
1:A:1455:ARG:HG3	1:A:1459:ILE:HG21	1.89	0.54
1:A:1546:THR:O	1:A:1548:ALA:N	2.41	0.54
1:A:471:UNK:HA	1:A:474:UNK:CB	2.37	0.54
1:A:910:THR:CG2	1:A:913:VAL:HG23	2.38	0.54
2:B:197:GLU:O	2:B:199:ILE:N	2.41	0.54
2:B:248:HIS:CE1	2:B:530:ALA:HB2	2.42	0.54
2:B:367:GLU:CG	2:B:368:ILE:N	2.70	0.54
2:B:91:PHE:C	2:B:93:ASN:H	2.11	0.54
1:D:1068:LYS:O	1:D:1069:GLY:O	2.24	0.54
1:D:1292:ILE:CG1	1:D:1292:ILE:O	2.53	0.54
1:D:1418:VAL:HA	1:D:1419:PRO:C	2.27	0.54
1:D:1430:ARG:CG	1:D:1431:GLU:H	2.20	0.54
1:D:1534:ASP:C	1:D:1566:ARG:HH21	2.11	0.54
1:D:1599:ILE:O	1:D:1600:LEU:O	2.26	0.54
1:D:1736:LYS:O	1:D:1737:ASN:HB2	2.08	0.54
1:D:525:UNK:O	1:D:526:UNK:C	2.55	0.54
1:D:803:MET:CE	1:D:822:VAL:HG11	2.38	0.54
1:D:957:VAL:HG12	1:D:961:THR:OG1	2.07	0.54
1:D:970:GLY:O	1:D:971:ASN:HB2	2.06	0.54
2:E:1208:UNK:O	2:E:1209:UNK:CB	2.55	0.54
2:E:1737:ILE:HD12	2:E:1755:ILE:HD12	1.88	0.54
2:E:174:ARG:C	2:E:176:LEU:H	2.11	0.54
2:E:1776:PHE:O	2:E:1777:THR:C	2.45	0.54
1:G:1070:ARG:O	1:G:1071:PRO:C	2.46	0.54
1:G:1151:LYS:CE	1:G:1175:ILE:HD13	2.33	0.54
1:G:1205:ILE:HG13	1:G:1205:ILE:O	2.06	0.54
1:G:1307:THR:OG1	1:G:1308:SER:N	2.40	0.54
1:G:1243:VAL:HG11	1:G:1325:ARG:HD3	1.90	0.54
1:G:1334:ASP:CG	1:G:1335:PHE:N	2.61	0.54
1:G:1455:ARG:HG3	1:G:1455:ARG:NH1	2.21	0.54
1:G:1580:LEU:C	1:G:1581:THR:OG1	2.46	0.54
1:G:456:UNK:O	1:G:460:UNK:N	2.40	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:941:ALA:O	1:G:942:LYS:C	2.45	0.54
2:H:135:ARG:N	2:H:136:PRO:CD	2.70	0.54
2:H:1729:ILE:HG12	2:H:1730:ARG:N	2.23	0.54
2:H:1912:ASN:O	2:H:1913:VAL:HG22	2.08	0.54
2:H:52:ASP:CG	2:H:53:GLU:H	2.11	0.54
2:H:25:ALA:CB	2:H:65:LEU:HD21	2.38	0.54
2:H:87:CYS:HA	2:H:90:GLU:CB	2.31	0.54
2:H:969:UNK:O	2:H:971:UNK:N	2.41	0.54
1:A:1261:PHE:N	1:A:1261:PHE:HD2	2.06	0.54
1:A:1276:GLN:O	1:A:1279:PHE:CD2	2.61	0.54
1:A:1549:ASN:OD1	1:A:1550:ASP:N	2.41	0.54
1:A:1534:ASP:C	1:A:1566:ARG:HH21	2.10	0.54
1:A:941:ALA:O	1:A:942:LYS:C	2.45	0.54
2:B:1008:UNK:O	2:B:1011:UNK:N	2.40	0.54
2:B:1291:UNK:CB	2:B:1369:UNK:N	2.70	0.54
2:B:1740:THR:HB	2:B:1751:ILE:HG13	1.89	0.54
2:B:1776:PHE:O	2:B:1777:THR:C	2.46	0.54
2:B:1804:PHE:CE2	2:B:1818:LEU:HB2	2.42	0.54
2:B:1869:GLU:HA	2:B:1872:GLN:CB	2.37	0.54
2:B:270:ALA:O	2:B:459:VAL:HG13	2.08	0.54
2:B:145:LEU:HD21	2:B:544:LYS:HG2	1.90	0.54
2:B:68:VAL:O	2:B:68:VAL:HG12	2.07	0.54
1:D:1254:VAL:CG1	1:D:1255:SER:H	2.19	0.54
1:D:854:HIS:O	1:D:855:SER:OG	2.24	0.54
1:D:984:PRO:O	1:D:985:ARG:O	2.26	0.54
2:E:1264:UNK:O	2:E:1266:UNK:N	2.40	0.54
2:E:1275:UNK:O	2:E:1276:UNK:C	2.56	0.54
2:E:1725:LYS:HG2	2:E:1760:THR:OG1	2.07	0.54
2:E:1828:VAL:HG13	2:E:1829:GLU:N	2.22	0.54
2:E:1911:THR:C	2:E:1913:VAL:H	2.11	0.54
2:E:2020:UNK:C	2:E:2022:UNK:N	2.65	0.54
2:E:60:LEU:HD12	2:E:60:LEU:H	1.72	0.54
1:G:1031:GLY:O	1:G:1032:SER:C	2.46	0.54
1:G:1036:ARG:NH2	1:G:1040:GLU:OE1	2.40	0.54
1:G:1045:PHE:HB3	1:G:1050:CYS:CA	2.37	0.54
1:G:1538:VAL:HG11	1:G:1599:ILE:HD12	1.90	0.54
1:G:1730:SER:O	1:G:1731:LEU:C	2.45	0.54
1:G:696:LEU:CD2	1:G:696:LEU:H	2.21	0.54
2:H:1911:THR:C	2:H:1913:VAL:H	2.11	0.54
2:H:235:PRO:O	2:H:236:ILE:CB	2.55	0.54
2:H:251:VAL:O	2:H:255:LEU:HB3	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:260:PRO:HG3	2:H:292:PHE:CB	2.34	0.54
2:H:887:UNK:O	2:H:888:UNK:CB	2.55	0.54
3:I:11:UNK:C	3:I:13:UNK:N	2.70	0.54
1:A:1162:GLU:OE2	1:A:1162:GLU:N	2.41	0.54
1:A:1558:ASN:ND2	1:A:1620:GLN:HB3	2.23	0.54
1:A:1536:LEU:HB3	1:A:1638:ALA:CB	2.36	0.54
1:A:572:UNK:C	1:A:574:UNK:N	2.69	0.54
2:B:1034:UNK:C	2:B:1036:UNK:H	2.21	0.54
2:B:1729:ILE:HG12	2:B:1730:ARG:N	2.22	0.54
2:B:1986:UNK:C	2:B:1988:UNK:H	2.21	0.54
2:B:387:TYR:O	2:B:390:ASN:HB2	2.06	0.54
1:D:1008:GLU:C	1:D:1010:GLU:N	2.57	0.54
1:D:1036:ARG:HD3	1:D:1037:TRP:N	2.22	0.54
1:D:1067:LEU:CG	1:D:1068:LYS:N	2.67	0.54
1:D:1219:VAL:HA	1:D:1384:ILE:HG21	1.89	0.54
1:D:1425:ILE:HG22	1:D:1425:ILE:O	2.08	0.54
1:D:1826:UNK:O	1:D:1827:UNK:CB	2.55	0.54
1:D:487:UNK:O	1:D:489:UNK:N	2.41	0.54
1:D:547:UNK:O	1:D:549:UNK:N	2.40	0.54
1:D:651:UNK:O	1:D:653:UNK:N	2.41	0.54
2:E:690:UNK:O	2:E:691:UNK:CB	2.55	0.54
1:G:1341:PHE:O	1:G:1342:GLU:CB	2.54	0.54
1:G:1362:PRO:HA	1:G:1365:MET:HE1	1.89	0.54
1:G:487:UNK:O	1:G:489:UNK:N	2.40	0.54
1:G:693:LEU:O	1:G:694:GLN:C	2.44	0.54
1:G:890:LYS:O	1:G:892:GLY:N	2.32	0.54
1:G:944:ARG:O	1:G:948:VAL:N	2.39	0.54
1:G:961:THR:C	1:G:963:LEU:H	2.11	0.54
2:H:13:HIS:C	2:H:15:SER:H	2.11	0.54
2:H:1483:UNK:O	2:H:1484:UNK:CB	2.55	0.54
2:H:77:VAL:HG12	2:H:78:GLY:N	2.22	0.54
1:A:1036:ARG:CD	1:A:1037:TRP:N	2.71	0.54
1:A:1079:LYS:CG	1:A:1080:THR:N	2.71	0.54
1:A:1339:GLY:C	1:A:1340:SER:O	2.39	0.54
1:A:1398:VAL:HG12	1:A:1673:TYR:CE1	2.38	0.54
1:A:1707:THR:O	1:A:1707:THR:OG1	2.24	0.54
1:A:1741:LYS:C	1:A:1743:SER:H	2.12	0.54
1:A:1826:UNK:O	1:A:1827:UNK:CB	2.56	0.54
1:A:394:UNK:O	1:A:395:UNK:C	2.55	0.54
1:A:446:UNK:O	1:A:447:UNK:CB	2.55	0.54
1:A:880:ALA:O	1:A:882:ASN:N	2.41	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1685:LYS:HA	2:B:1688:GLN:HB2	1.88	0.54
2:B:1706:ILE:HD13	2:B:1783:LEU:HD12	1.90	0.54
2:B:1857:ILE:HG12	2:B:1949:UNK:CB	2.38	0.54
2:B:213:LEU:HD11	2:B:215:ILE:HD11	1.89	0.54
2:B:304:PHE:CE2	2:B:308:VAL:HG21	2.43	0.54
2:B:334:VAL:O	2:B:420:PHE:CD2	2.56	0.54
2:B:350:GLN:O	2:B:351:ASP:C	2.46	0.54
2:B:440:ASN:O	2:B:443:LEU:HB2	2.08	0.54
2:B:60:LEU:O	2:B:64:PHE:N	2.39	0.54
3:C:45:UNK:O	3:C:46:UNK:CB	2.56	0.54
1:D:1142:GLU:N	1:D:1144:PHE:CE1	2.76	0.54
1:D:1208:VAL:HB	1:D:1212:THR:HG21	1.89	0.54
1:D:1225:ALA:C	1:D:1227:GLY:N	2.55	0.54
1:D:1334:ASP:CG	1:D:1335:PHE:N	2.62	0.54
1:D:1614:VAL:HG12	1:D:1614:VAL:O	2.07	0.54
1:D:489:UNK:O	1:D:490:UNK:C	2.56	0.54
1:D:644:UNK:C	1:D:646:UNK:N	2.67	0.54
2:E:1225:UNK:O	2:E:1226:UNK:CB	2.55	0.54
2:E:1754:GLU:C	2:E:1756:ASN:N	2.62	0.54
2:E:1877:ARG:HG2	2:E:1929:LYS:HD2	1.89	0.54
2:E:351:ASP:O	2:E:354:ASN:HB2	2.08	0.54
2:E:273:HIS:HB3	2:E:512:LEU:HD11	1.89	0.54
2:E:145:LEU:HD21	2:E:544:LYS:HG2	1.89	0.54
2:E:25:ALA:CB	2:E:65:LEU:HD21	2.38	0.54
1:G:1142:GLU:N	1:G:1144:PHE:CE1	2.76	0.54
1:G:1319:ILE:HD12	1:G:1325:ARG:HA	1.89	0.54
1:G:1370:THR:O	1:G:1371:THR:CB	2.56	0.54
1:G:415:UNK:C	1:G:417:UNK:N	2.68	0.54
1:G:460:UNK:C	1:G:462:UNK:N	2.70	0.54
1:G:747:ALA:O	1:G:750:GLU:HB3	2.07	0.54
1:G:912:GLU:O	1:G:916:LEU:N	2.31	0.54
2:H:1703:GLY:O	2:H:1721:PHE:HE2	1.87	0.54
2:H:1785:GLU:O	2:H:1788:ALA:HB3	2.08	0.54
2:H:1871:LEU:C	2:H:1873:TYR:H	2.10	0.54
2:H:249:TYR:CE2	2:H:283:ILE:HG23	2.43	0.54
2:H:404:GLN:HG3	2:H:408:PRO:CG	2.33	0.54
2:H:68:VAL:O	2:H:68:VAL:HG12	2.08	0.54
1:A:1203:ASP:H	1:A:1205:ILE:HG13	1.68	0.53
1:A:1596:ALA:O	1:A:1597:LEU:C	2.46	0.53
1:A:1604:ILE:HG23	1:A:1630:THR:CB	2.38	0.53
1:A:487:UNK:O	1:A:489:UNK:N	2.41	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:904:ASN:O	1:A:905:LEU:C	2.46	0.53
2:B:1830:VAL:O	2:B:1833:TYR:N	2.42	0.53
2:B:1917:ILE:HG22	2:B:1918:LYS:N	2.22	0.53
2:B:267:LEU:HG	2:B:457:ILE:HD12	1.89	0.53
2:B:690:UNK:O	2:B:691:UNK:CB	2.56	0.53
2:B:917:UNK:C	2:B:919:UNK:N	2.67	0.53
3:C:61:UNK:O	3:C:62:UNK:CB	2.56	0.53
1:D:1060:ILE:HD13	1:D:1077:ASP:OD1	2.08	0.53
1:D:1067:LEU:HD11	1:D:1073:THR:OG1	2.08	0.53
1:D:1208:VAL:HA	1:D:1277:GLU:CD	2.28	0.53
1:D:1419:PRO:O	1:D:1420:ALA:HB2	2.08	0.53
1:D:1711:GLU:CG	1:D:1715:TYR:HE1	2.09	0.53
1:D:689:GLY:HA2	1:D:692:VAL:CG2	2.38	0.53
1:D:774:ILE:HD13	1:D:775:PRO:HD2	1.89	0.53
1:D:830:HIS:N	1:D:830:HIS:CD2	2.72	0.53
1:D:910:THR:CG2	1:D:913:VAL:HG23	2.38	0.53
1:D:998:TYR:O	1:D:999:LYS:O	2.25	0.53
2:E:1483:UNK:O	2:E:1484:UNK:CB	2.55	0.53
2:E:1519:UNK:C	2:E:1521:UNK:N	2.71	0.53
2:E:1753:LYS:O	2:E:1755:ILE:HG12	2.08	0.53
2:E:1760:THR:O	2:E:1761:SER:OG	2.22	0.53
2:E:1762:TYR:CD1	2:E:1763:THR:N	2.74	0.53
2:E:203:LEU:HD23	2:E:206:GLU:OE2	2.09	0.53
2:E:213:LEU:HD13	2:E:236:ILE:CG1	2.37	0.53
2:E:408:PRO:HB2	2:E:412:ARG:CD	2.37	0.53
2:E:525:VAL:HG12	2:E:525:VAL:O	2.08	0.53
2:E:79:GLN:HB3	2:E:80:PHE:HD1	1.73	0.53
1:G:1075:TRP:CE3	1:G:1076:VAL:N	2.77	0.53
1:G:1736:LYS:O	1:G:1737:ASN:HB2	2.08	0.53
1:G:719:GLN:CG	1:G:720:SER:N	2.69	0.53
1:G:704:VAL:HG22	1:G:733:ILE:HB	1.89	0.53
1:G:774:ILE:CD1	1:G:775:PRO:HD2	2.39	0.53
1:G:807:LYS:HG2	1:G:861:GLN:HG3	1.90	0.53
2:H:1672:GLN:HB3	2:H:1781:LEU:CG	2.38	0.53
2:H:1739:GLU:O	2:H:1741:ILE:HG13	2.08	0.53
2:H:474:SER:O	2:H:475:ILE:HB	2.07	0.53
2:H:50:ALA:O	2:H:51:ASP:HB2	2.08	0.53
1:A:1057:MET:CE	1:A:1106:ILE:HD11	2.38	0.53
1:A:1239:HIS:O	1:A:1241:SER:N	2.39	0.53
1:A:552:UNK:C	1:A:554:UNK:H	2.17	0.53
1:A:561:UNK:O	1:A:564:UNK:N	2.42	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:717:TYR:C	1:A:719:GLN:N	2.60	0.53
1:A:963:LEU:O	1:A:967:VAL:HG23	2.08	0.53
2:B:122:LEU:C	2:B:122:LEU:HD23	2.27	0.53
2:B:1275:UNK:O	2:B:1276:UNK:C	2.57	0.53
2:B:1698:PHE:C	2:B:1700:ASP:H	2.11	0.53
2:B:41:LEU:O	2:B:45:THR:HA	2.07	0.53
2:B:1885:LEU:C	3:C:2:UNK:CB	2.76	0.53
1:D:1036:ARG:CD	1:D:1037:TRP:N	2.71	0.53
1:D:1075:TRP:CE3	1:D:1076:VAL:N	2.76	0.53
1:D:1246:CYS:N	1:D:1328:ILE:HG23	2.23	0.53
1:D:1616:LYS:O	1:D:1618:LEU:N	2.42	0.53
1:D:1639:VAL:HG23	1:D:1655:VAL:H	1.74	0.53
1:D:1642:THR:HA	1:D:1652:GLN:OE1	2.08	0.53
1:D:1666:THR:O	1:D:1667:GLU:HG3	2.09	0.53
1:D:880:ALA:O	1:D:882:ASN:N	2.41	0.53
2:E:1844:ARG:HG2	2:E:1850:SER:HA	1.90	0.53
2:E:1897:GLN:C	2:E:1899:VAL:H	2.10	0.53
2:E:1917:ILE:HG22	2:E:1918:LYS:N	2.20	0.53
2:E:2036:UNK:C	2:E:2038:UNK:N	2.70	0.53
2:E:50:ALA:O	2:E:51:ASP:HB2	2.07	0.53
2:E:61:VAL:HG12	2:E:65:LEU:HD12	1.89	0.53
1:G:1377:MET:O	1:G:1378:GLU:O	2.25	0.53
1:G:1599:ILE:HG13	1:G:1600:LEU:N	2.23	0.53
1:G:771:PHE:HD1	1:G:771:PHE:N	2.05	0.53
1:G:880:ALA:O	1:G:882:ASN:N	2.41	0.53
1:G:910:THR:CG2	1:G:913:VAL:HG23	2.39	0.53
1:G:927:ASN:O	1:G:929:GLY:N	2.35	0.53
2:H:1714:PRO:O	2:H:1715:VAL:O	2.25	0.53
2:H:1737:ILE:HD12	2:H:1755:ILE:HD12	1.90	0.53
2:H:61:VAL:HG12	2:H:65:LEU:HD12	1.90	0.53
1:A:1100:HIS:O	1:A:1103:ILE:N	2.41	0.53
1:A:1153:ASP:CG	1:A:1157:ILE:HG23	2.29	0.53
1:A:1195:ALA:O	1:A:1196:LYS:NZ	2.42	0.53
1:A:1208:VAL:CG2	1:A:1209:ASP:N	2.70	0.53
1:A:1302:VAL:O	1:A:1307:THR:CB	2.53	0.53
1:A:1326:ILE:N	1:A:1326:ILE:CD1	2.70	0.53
1:A:1430:ARG:CG	1:A:1431:GLU:H	2.20	0.53
1:A:1332:TYR:CA	1:A:1587:ALA:HB2	2.38	0.53
1:A:1021:VAL:HG11	1:A:1597:LEU:HD11	1.91	0.53
1:A:1607:GLY:O	1:A:1608:ASN:O	2.27	0.53
1:A:961:THR:C	1:A:963:LEU:H	2.12	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1720:HIS:HB2	2:B:1762:TYR:O	2.08	0.53
2:B:1809:LEU:O	2:B:1811:GLU:N	2.41	0.53
2:B:2036:UNK:C	2:B:2038:UNK:N	2.69	0.53
2:B:187:LEU:HD22	2:B:296:VAL:HG11	1.90	0.53
2:B:478:ARG:C	2:B:480:VAL:N	2.62	0.53
2:B:678:UNK:O	2:B:679:UNK:C	2.55	0.53
1:D:1070:ARG:O	1:D:1071:PRO:C	2.47	0.53
1:D:1074:GLY:O	1:D:1075:TRP:HB3	2.08	0.53
1:D:1418:VAL:CA	1:D:1419:PRO:O	2.55	0.53
1:D:1532:THR:O	1:D:1533:ILE:C	2.47	0.53
1:D:1541:PHE:HE2	1:D:1554:SER:OG	1.90	0.53
1:D:415:UNK:C	1:D:417:UNK:N	2.70	0.53
1:D:873:ARG:HH12	1:D:883:ILE:C	2.11	0.53
1:D:903:PHE:O	1:D:906:LEU:HB3	2.08	0.53
1:D:961:THR:C	1:D:963:LEU:H	2.12	0.53
2:E:1859:PRO:HB3	2:E:1863:ALA:HB2	1.90	0.53
2:E:208:VAL:HG12	2:E:208:VAL:O	2.08	0.53
2:E:209:PHE:CD2	2:E:213:LEU:HD22	2.43	0.53
1:G:1138:LYS:O	1:G:1139:GLU:HB3	2.07	0.53
1:G:1144:PHE:O	1:G:1145:LYS:C	2.45	0.53
1:G:1316:VAL:HG13	1:G:1317:GLU:OE2	2.09	0.53
1:G:1339:GLY:O	1:G:1340:SER:O	2.26	0.53
1:G:1381:GLY:O	1:G:1382:ALA:HB2	2.09	0.53
1:G:1549:ASN:OD1	1:G:1550:ASP:N	2.41	0.53
1:G:1704:ALA:CB	1:G:1705:PRO:HD2	2.27	0.53
1:G:572:UNK:C	1:G:574:UNK:N	2.70	0.53
2:H:1531:UNK:O	2:H:1532:UNK:CB	2.56	0.53
2:H:1753:LYS:O	2:H:1755:ILE:HG12	2.08	0.53
2:H:1859:PRO:HB3	2:H:1863:ALA:HB2	1.90	0.53
2:H:1869:GLU:HA	2:H:1872:GLN:CB	2.38	0.53
2:H:2033:UNK:O	2:H:2036:UNK:N	2.40	0.53
2:H:213:LEU:HD13	2:H:236:ILE:CG1	2.36	0.53
2:H:209:PHE:CD2	2:H:213:LEU:HD22	2.44	0.53
2:H:275:GLN:HG3	2:H:303:LEU:HD22	1.90	0.53
2:H:431:LEU:N	2:H:431:LEU:HD23	2.23	0.53
2:H:270:ALA:O	2:H:459:VAL:HG13	2.09	0.53
2:H:678:UNK:O	2:H:679:UNK:C	2.56	0.53
1:A:1070:ARG:O	1:A:1071:PRO:C	2.47	0.53
1:A:1109:GLU:O	1:A:1110:LEU:CB	2.56	0.53
1:A:1158:PRO:CG	1:A:1159:GLU:H	2.09	0.53
1:A:1133:PRO:HD2	1:A:1173:LEU:HD13	1.87	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1208:VAL:HA	1:A:1277:GLU:CD	2.29	0.53
1:A:1532:THR:OG1	1:A:1535:ASP:HB3	2.08	0.53
1:A:1373:ARG:CG	1:A:1547:LYS:HD3	2.09	0.53
1:A:871:TRP:HZ2	1:A:881:ASN:HB2	1.73	0.53
2:B:1496:UNK:C	2:B:1498:UNK:N	2.72	0.53
2:B:1673:GLU:N	2:B:1676:MET:HE1	2.23	0.53
2:B:2033:UNK:O	2:B:2036:UNK:N	2.41	0.53
2:B:2038:UNK:HA	2:B:2041:UNK:CB	2.38	0.53
2:B:52:ASP:CG	2:B:53:GLU:H	2.12	0.53
1:D:1079:LYS:CG	1:D:1080:THR:N	2.71	0.53
1:D:1099:GLU:CG	1:D:1100:HIS:N	2.66	0.53
1:D:1127:VAL:HG21	1:D:1180:ARG:HG3	1.90	0.53
1:D:1558:ASN:C	1:D:1560:MET:N	2.62	0.53
1:D:1610:ASN:O	1:D:1611:ALA:O	2.27	0.53
1:D:1656:VAL:HG22	1:D:1657:HIS:N	2.22	0.53
1:D:281:UNK:C	1:D:283:UNK:N	2.71	0.53
2:E:1496:UNK:C	2:E:1498:UNK:N	2.70	0.53
2:E:1720:HIS:HB2	2:E:1762:TYR:O	2.07	0.53
2:E:1789:PHE:CE1	2:E:1818:LEU:HD23	2.43	0.53
2:E:1907:LEU:N	2:E:1907:LEU:HD23	2.21	0.53
2:E:440:ASN:O	2:E:443:LEU:HB2	2.07	0.53
1:G:1067:LEU:CG	1:G:1073:THR:HG23	2.27	0.53
1:G:1657:HIS:NE2	1:G:1659:ASP:OD2	2.36	0.53
1:G:1681:GLU:O	1:G:1682:LYS:HB2	2.09	0.53
1:G:1735:SER:C	1:G:1737:ASN:N	2.61	0.53
1:G:635:UNK:O	1:G:636:UNK:CB	2.56	0.53
2:H:1034:UNK:C	2:H:1036:UNK:H	2.21	0.53
2:H:1698:PHE:CD1	2:H:1706:ILE:HD11	2.43	0.53
2:H:390:ASN:HA	2:H:393:LEU:CD2	2.39	0.53
2:H:408:PRO:HB2	2:H:412:ARG:CD	2.37	0.53
2:H:922:UNK:C	2:H:924:UNK:N	2.69	0.53
1:A:1052:GLU:O	1:A:1056:ILE:HG13	2.09	0.53
1:A:1142:GLU:N	1:A:1144:PHE:CE1	2.77	0.53
1:A:1665:ILE:HG22	1:A:1666:THR:N	2.23	0.53
1:A:689:GLY:HA2	1:A:692:VAL:CG2	2.39	0.53
1:A:695:GLY:O	1:A:697:LEU:N	2.42	0.53
1:A:875:THR:OG1	1:A:879:SER:HB2	2.09	0.53
2:B:1715:VAL:CG2	2:B:1716:ASN:H	2.05	0.53
2:B:2047:UNK:O	2:B:2049:UNK:N	2.42	0.53
2:B:402:LEU:HD22	2:B:405:SER:OG	2.08	0.53
2:B:755:UNK:O	2:B:756:UNK:CB	2.56	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1109:GLU:C	1:D:1111:PHE:N	2.59	0.53
1:D:1248:GLY:O	1:D:1300:THR:HG23	2.09	0.53
1:D:1349:THR:HG22	1:D:1350:SER:N	2.23	0.53
1:D:1536:LEU:CA	1:D:1638:ALA:HB3	2.39	0.53
1:D:1544:THR:OG1	1:D:1546:THR:CG2	2.56	0.53
1:D:1546:THR:O	1:D:1548:ALA:N	2.41	0.53
1:D:1547:LYS:HE3	1:D:1615:ASP:HB2	1.89	0.53
1:D:1691:GLY:HA2	1:D:1696:LYS:HB2	1.90	0.53
1:D:673:PHE:O	1:D:674:LYS:C	2.45	0.53
1:D:717:TYR:C	1:D:719:GLN:N	2.59	0.53
1:D:796:LEU:HG	1:D:797:THR:N	2.23	0.53
2:E:1531:UNK:O	2:E:1532:UNK:CB	2.56	0.53
1:G:1161:GLY:O	1:G:1164:SER:HB3	2.09	0.53
1:G:1156:GLU:HG2	1:G:1169:LYS:HA	1.88	0.53
1:G:1413:LYS:HG2	1:G:1414:ILE:N	2.23	0.53
1:G:1453:VAL:O	1:G:1454:THR:C	2.47	0.53
1:G:1655:VAL:HG13	1:G:1656:VAL:N	2.23	0.53
1:G:1403:ILE:CG2	1:G:1656:VAL:O	2.57	0.53
1:G:1700:SER:C	1:G:1701:LYS:HD3	2.29	0.53
1:G:655:UNK:O	1:G:657:UNK:N	2.41	0.53
1:G:877:LEU:O	1:G:878:MET:CB	2.48	0.53
1:G:912:GLU:O	1:G:913:VAL:C	2.47	0.53
1:G:993:PRO:HD3	1:G:1681:GLU:OE2	2.07	0.53
2:H:1562:UNK:O	2:H:1564:UNK:N	2.42	0.53
2:H:1614:UNK:CB	2:H:1650:UNK:HA	2.39	0.53
2:H:1823:SER:O	2:H:1824:ILE:C	2.47	0.53
2:H:197:GLU:O	2:H:199:ILE:N	2.41	0.53
2:H:202:THR:O	2:H:203:LEU:C	2.46	0.53
2:H:370:LEU:HB3	2:H:372:ASN:OD1	2.08	0.53
2:H:390:ASN:HA	2:H:393:LEU:CB	2.37	0.53
2:H:755:UNK:O	2:H:756:UNK:CB	2.56	0.53
1:A:1045:PHE:HB3	1:A:1050:CYS:CA	2.38	0.53
1:A:1260:MET:SD	1:A:1275:LEU:HD23	2.49	0.53
1:A:1413:LYS:HG2	1:A:1414:ILE:N	2.23	0.53
1:A:1561:MET:HA	1:A:1561:MET:CE	2.38	0.53
1:A:1062:TYR:CE2	1:A:1693:ILE:HD12	2.31	0.53
1:A:490:UNK:O	1:A:493:UNK:N	2.42	0.53
1:A:917:CYS:SG	1:A:922:VAL:CG2	2.97	0.53
2:B:1678:MET:HA	2:B:1678:MET:CE	2.36	0.53
2:B:19:VAL:HG12	2:B:19:VAL:O	2.08	0.53
2:B:265:SER:O	2:B:267:LEU:N	2.40	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:676:UNK:O	2:B:677:UNK:C	2.56	0.53
1:D:1022:THR:HG21	1:D:1388:MET:CE	2.32	0.53
1:D:1032:SER:O	1:D:1033:ALA:C	2.46	0.53
1:D:1161:GLY:H	1:D:1166:LYS:HA	1.73	0.53
1:D:1245:ASN:ND2	1:D:1288:ASN:ND2	2.57	0.53
1:D:1413:LYS:HG2	1:D:1414:ILE:N	2.23	0.53
1:D:1424:GLY:C	1:D:1426:LEU:H	2.10	0.53
1:D:1558:ASN:ND2	1:D:1620:GLN:HB3	2.24	0.53
1:D:1688:PHE:O	1:D:1689:HIS:C	2.46	0.53
1:D:1717:ASP:C	1:D:1719:LEU:H	2.11	0.53
1:D:680:ILE:HD11	1:D:703:VAL:HG13	1.89	0.53
2:E:14:GLY:HA3	2:E:18:HIS:CB	2.39	0.53
2:E:1908:ASP:O	2:E:1911:THR:HG22	2.07	0.53
2:E:241:ILE:HG21	2:E:275:GLN:HG2	1.90	0.53
2:E:306:ILE:O	2:E:310:CYS:SG	2.67	0.53
2:E:526:ARG:CD	2:E:526:ARG:N	2.70	0.53
1:G:1168:LEU:HD13	1:G:1169:LYS:CB	2.37	0.53
1:G:1239:HIS:C	1:G:1241:SER:N	2.60	0.53
1:G:1219:VAL:HG23	1:G:1328:ILE:HD11	1.89	0.53
1:G:1562:LYS:NZ	1:G:1621:PHE:CZ	2.75	0.53
1:G:1692:MET:N	1:G:1697:LEU:HD11	2.24	0.53
1:G:388:UNK:O	1:G:389:UNK:C	2.57	0.53
1:G:443:UNK:CB	1:G:731:THR:HA	2.39	0.53
1:G:928:GLY:C	1:G:930:LEU:N	2.60	0.53
2:H:174:ARG:C	2:H:176:LEU:H	2.12	0.53
2:H:1874:VAL:HG12	2:H:1878:VAL:CG2	2.39	0.53
2:H:239:PRO:HG2	2:H:240:LEU:H	1.74	0.53
1:A:1014:ASP:O	1:A:1015:LEU:O	2.26	0.53
1:A:1117:GLU:HG3	1:A:1118:LYS:N	2.24	0.53
1:A:1161:GLY:H	1:A:1166:LYS:HA	1.74	0.53
1:A:1172:THR:HG22	1:A:1172:THR:O	2.09	0.53
1:A:1187:GLY:N	1:A:1188:GLN:NE2	2.56	0.53
1:A:1189:ILE:CG2	1:A:1190:PRO:CD	2.72	0.53
1:A:1455:ARG:NH2	1:A:1458:GLN:HB2	2.24	0.53
1:A:796:LEU:HG	1:A:797:THR:N	2.22	0.53
2:B:1908:ASP:O	2:B:1911:THR:HG22	2.08	0.53
2:B:480:VAL:HG13	2:B:484:ILE:HD11	1.90	0.53
1:D:1045:PHE:HB3	1:D:1050:CYS:CA	2.38	0.53
1:D:1142:GLU:O	1:D:1143:GLN:C	2.46	0.53
1:D:1153:ASP:C	1:D:1155:PHE:H	2.12	0.53
1:D:1371:THR:O	1:D:1373:ARG:HG3	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1687:PHE:O	1:D:1690:ASN:HB3	2.09	0.53
1:G:1100:HIS:O	1:G:1103:ILE:N	2.41	0.53
1:G:1151:LYS:CG	1:G:1175:ILE:HD13	2.38	0.53
1:G:1376:PHE:O	1:G:1377:MET:HG2	2.08	0.53
1:G:1387:ILE:O	1:G:1387:ILE:HD12	2.08	0.53
1:G:453:UNK:C	1:G:455:UNK:N	2.68	0.53
1:G:917:CYS:HA	1:G:920:SER:O	2.09	0.53
2:H:1738:PHE:HB3	2:H:1739:GLU:OE2	2.09	0.53
2:H:214:ASN:C	2:H:216:LEU:H	2.12	0.53
1:A:1082:GLU:CA	1:A:1085:ASP:OD1	2.57	0.53
1:A:1197:THR:CA	1:A:1200:ILE:HG22	2.37	0.53
1:A:1639:VAL:HG23	1:A:1655:VAL:H	1.73	0.53
1:A:1666:THR:O	1:A:1667:GLU:HG3	2.09	0.53
1:A:705:VAL:HG23	1:A:732:LEU:HD11	1.91	0.53
2:B:489:LYS:O	2:B:491:GLU:N	2.41	0.53
2:B:25:ALA:CB	2:B:65:LEU:HD21	2.38	0.53
2:B:895:UNK:O	2:B:896:UNK:C	2.57	0.53
1:D:1207:GLN:C	1:D:1207:GLN:HE21	2.12	0.53
1:D:1307:THR:OG1	1:D:1308:SER:N	2.41	0.53
1:D:1447:TYR:HE2	1:D:1450:ARG:CG	2.19	0.53
1:D:1453:VAL:O	1:D:1454:THR:C	2.46	0.53
1:D:1561:MET:HA	1:D:1561:MET:CE	2.39	0.53
1:D:1637:ARG:O	1:D:1657:HIS:N	2.37	0.53
1:D:993:PRO:HD3	1:D:1681:GLU:OE2	2.09	0.53
2:E:270:ALA:O	2:E:459:VAL:HG13	2.09	0.53
2:E:275:GLN:HG3	2:E:303:LEU:HD22	1.91	0.53
2:E:431:LEU:HD23	2:E:431:LEU:N	2.23	0.53
2:E:41:LEU:CD2	2:E:46:GLU:HA	2.32	0.53
2:E:612:UNK:O	2:E:613:UNK:CB	2.56	0.53
2:E:70:SER:HB2	2:E:72:VAL:O	2.09	0.53
2:E:969:UNK:O	2:E:971:UNK:N	2.42	0.53
1:G:1014:ASP:O	1:G:1015:LEU:O	2.26	0.53
1:G:1146:HIS:O	1:G:1148:HIS:N	2.41	0.53
1:G:1208:VAL:CG2	1:G:1209:ASP:N	2.71	0.53
1:G:1208:VAL:HA	1:G:1277:GLU:CD	2.29	0.53
1:G:1210:PRO:HB3	1:G:1255:SER:CB	2.30	0.53
1:G:1241:SER:HB3	1:G:1295:SER:H	1.73	0.53
1:G:1326:ILE:N	1:G:1326:ILE:CD1	2.72	0.53
1:G:1418:VAL:CA	1:G:1419:PRO:O	2.57	0.53
1:G:1590:ALA:O	1:G:1593:MET:HB3	2.08	0.53
1:G:490:UNK:O	1:G:493:UNK:N	2.42	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:673:PHE:O	1:G:674:LYS:C	2.47	0.53
1:G:792:HIS:HD2	1:G:838:MET:SD	2.32	0.53
1:G:866:GLY:O	1:G:867:ALA:CB	2.56	0.53
1:G:869:ILE:CG2	1:G:901:MET:SD	2.96	0.53
1:G:911:PRO:O	1:G:912:GLU:CB	2.56	0.53
2:H:1018:UNK:O	2:H:1019:UNK:CB	2.55	0.53
2:H:1429:UNK:O	2:H:1430:UNK:C	2.56	0.53
2:H:147:ARG:O	2:H:148:ALA:C	2.47	0.53
2:H:14:GLY:HA3	2:H:18:HIS:CB	2.38	0.53
2:H:1758:HIS:CD2	2:H:1759:SER:H	2.25	0.53
2:H:19:VAL:O	2:H:19:VAL:HG12	2.09	0.53
2:H:799:UNK:O	2:H:800:UNK:C	2.56	0.53
2:H:99:ASN:O	2:H:100:ASP:HB3	2.09	0.53
1:A:1157:ILE:HG22	1:A:1158:PRO:CD	2.23	0.53
1:A:1280:ILE:CD1	1:A:1280:ILE:H	2.16	0.53
1:A:1637:ARG:O	1:A:1657:HIS:N	2.38	0.53
1:A:666:UNK:O	1:A:667:UNK:C	2.57	0.53
1:A:673:PHE:O	1:A:674:LYS:C	2.48	0.53
1:A:680:ILE:HD11	1:A:703:VAL:CG1	2.39	0.53
1:A:704:VAL:HG22	1:A:733:ILE:HB	1.91	0.53
1:A:873:ARG:HG3	1:A:882:ASN:OD1	2.07	0.53
1:A:901:MET:O	1:A:904:ASN:N	2.33	0.53
1:A:998:TYR:HD1	1:A:999:LYS:HG2	1.73	0.53
2:B:1519:UNK:C	2:B:1521:UNK:N	2.71	0.53
2:B:1709:ILE:HG22	2:B:1771:LEU:CD1	2.36	0.53
2:B:1753:LYS:C	2:B:1755:ILE:H	2.12	0.53
2:B:1823:SER:O	2:B:1824:ILE:C	2.47	0.53
2:B:1859:PRO:HB3	2:B:1863:ALA:HB2	1.91	0.53
2:B:1931:LEU:HA	2:B:1934:GLU:HB3	1.90	0.53
2:B:275:GLN:HG3	2:B:303:LEU:HD22	1.91	0.53
2:B:395:LYS:O	2:B:396:ALA:HB2	2.07	0.53
1:D:1012:LEU:CD1	1:D:1015:LEU:HD12	2.38	0.53
1:D:1398:VAL:HG12	1:D:1673:TYR:CE1	2.38	0.53
1:D:1433:HIS:CE1	1:D:1518:ARG:HH21	2.27	0.53
1:D:1681:GLU:O	1:D:1682:LYS:HB2	2.09	0.53
1:D:610:UNK:CB	1:D:873:ARG:HE	2.21	0.53
2:E:1181:UNK:O	2:E:1182:UNK:CB	2.57	0.53
2:E:1334:UNK:O	2:E:1335:UNK:C	2.55	0.53
2:E:13:HIS:C	2:E:15:SER:H	2.10	0.53
2:E:2040:UNK:O	2:E:2042:UNK:N	2.42	0.53
2:E:490:TRP:O	2:E:493:THR:N	2.41	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:52:ASP:CG	2:E:53:GLU:H	2.12	0.53
2:E:887:UNK:O	2:E:888:UNK:CB	2.57	0.53
1:G:1056:ILE:C	1:G:1058:GLY:N	2.62	0.53
1:G:1104:ARG:O	1:G:1105:LEU:CG	2.56	0.53
1:G:1286:TRP:HA	1:G:1289:MET:CG	2.38	0.53
1:G:1408:ALA:HA	1:G:1652:GLN:O	2.09	0.53
1:G:563:UNK:C	1:G:565:UNK:N	2.67	0.53
1:G:584:UNK:O	1:G:585:UNK:O	2.26	0.53
1:G:810:LYS:O	1:G:812:ALA:N	2.41	0.53
2:H:1149:UNK:C	2:H:1151:UNK:N	2.72	0.53
2:H:1181:UNK:O	2:H:1182:UNK:CB	2.57	0.53
2:H:1496:UNK:C	2:H:1498:UNK:N	2.70	0.53
2:H:1519:UNK:C	2:H:1521:UNK:N	2.68	0.53
2:H:402:LEU:HD22	2:H:405:SER:OG	2.09	0.53
2:H:525:VAL:O	2:H:525:VAL:HG12	2.09	0.53
2:H:895:UNK:O	2:H:896:UNK:C	2.57	0.53
1:A:1126:ILE:CG2	1:A:1177:LYS:HB3	2.39	0.53
1:A:1139:GLU:CG	1:A:1140:THR:N	2.71	0.53
1:A:1151:LYS:CG	1:A:1175:ILE:HD13	2.39	0.53
1:A:1131:LEU:O	1:A:1173:LEU:HD13	2.09	0.53
1:A:1654:ILE:HG12	1:A:1655:VAL:N	2.23	0.53
1:A:803:MET:HB3	1:A:862:LEU:HD11	1.90	0.53
2:B:1040:UNK:O	2:B:1041:UNK:CB	2.56	0.53
2:B:1299:UNK:O	2:B:1301:UNK:N	2.41	0.53
2:B:135:ARG:N	2:B:136:PRO:HD3	2.22	0.53
2:B:1413:UNK:C	2:B:1415:UNK:N	2.71	0.53
2:B:1675:GLY:O	2:B:1678:MET:HG2	2.09	0.53
2:B:1878:VAL:CB	2:B:1898:TYR:HE1	2.22	0.53
2:B:203:LEU:HD23	2:B:206:GLU:OE2	2.08	0.53
2:B:218:TRP:CZ2	2:B:226:PRO:HG2	2.44	0.53
2:B:375:LYS:CG	2:B:376:ASN:H	2.22	0.53
2:B:762:UNK:O	2:B:763:UNK:CB	2.57	0.53
1:D:1161:GLY:O	1:D:1164:SER:HB3	2.09	0.53
1:D:1178:ALA:O	1:D:1179:LEU:CD2	2.56	0.53
1:D:1187:GLY:C	1:D:1188:GLN:CD	2.68	0.53
1:D:1197:THR:CA	1:D:1200:ILE:HG22	2.38	0.53
1:D:1243:VAL:HG11	1:D:1325:ARG:HD3	1.89	0.53
1:D:1339:GLY:O	1:D:1340:SER:O	2.27	0.53
1:D:1376:PHE:O	1:D:1377:MET:HG2	2.09	0.53
1:D:1471:LYS:C	1:D:1474:ALA:H	2.12	0.53
1:D:1546:THR:CG2	1:D:1549:ASN:HB3	2.38	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1599:ILE:HG13	1:D:1600:LEU:N	2.24	0.53
1:D:1638:ALA:O	1:D:1639:VAL:HG13	2.09	0.53
1:D:444:UNK:H	1:D:722:TYR:HE2	1.54	0.53
1:D:787:LYS:O	1:D:790:PHE:HB3	2.09	0.53
1:D:911:PRO:O	1:D:912:GLU:HB2	2.09	0.53
2:E:1018:UNK:O	2:E:1019:UNK:CB	2.56	0.53
2:E:49:ALA:H	2:E:118:LYS:NZ	2.07	0.53
2:E:1291:UNK:CB	2:E:1369:UNK:N	2.72	0.53
2:E:1823:SER:O	2:E:1824:ILE:C	2.47	0.53
1:G:1022:THR:O	1:G:1401:TYR:CE2	2.62	0.53
1:G:1045:PHE:HB3	1:G:1050:CYS:N	2.23	0.53
1:G:1094:GLU:HG3	1:G:1095:THR:N	2.24	0.53
1:G:1276:GLN:O	1:G:1279:PHE:CD2	2.61	0.53
1:G:1371:THR:C	1:G:1373:ARG:H	2.10	0.53
1:G:1424:GLY:C	1:G:1426:LEU:H	2.10	0.53
1:G:1471:LYS:C	1:G:1474:ALA:H	2.13	0.53
1:G:1665:ILE:HG22	1:G:1666:THR:N	2.24	0.53
1:G:537:UNK:CB	1:G:585:UNK:CB	2.86	0.53
1:G:791:ALA:O	1:G:795:MET:N	2.32	0.53
1:G:873:ARG:HH12	1:G:883:ILE:C	2.13	0.53
1:G:890:LYS:C	1:G:892:GLY:H	2.13	0.53
2:H:1341:UNK:O	2:H:1342:UNK:CB	2.57	0.53
2:H:1441:UNK:C	2:H:1443:UNK:N	2.71	0.53
2:H:1770:LEU:O	2:H:1772:SER:N	2.35	0.53
2:H:1877:ARG:HB3	2:H:1929:LYS:HZ2	1.73	0.53
2:H:158:ALA:H	2:H:270:ALA:H	1.56	0.53
2:H:490:TRP:O	2:H:493:THR:N	2.41	0.53
2:H:70:SER:HB2	2:H:72:VAL:O	2.08	0.53
2:H:79:GLN:HB3	2:H:80:PHE:HD1	1.73	0.53
2:H:799:UNK:C	2:H:801:UNK:N	2.70	0.53
1:A:1119:LYS:HE3	1:A:1121:MET:CG	2.39	0.52
1:A:1292:ILE:O	1:A:1292:ILE:CG1	2.53	0.52
1:A:1655:VAL:HG13	1:A:1656:VAL:N	2.24	0.52
1:A:1736:LYS:O	1:A:1737:ASN:HB2	2.09	0.52
1:A:910:THR:HG23	1:A:913:VAL:HG23	1.91	0.52
1:A:917:CYS:HA	1:A:920:SER:O	2.09	0.52
2:B:1650:UNK:C	2:B:1652:UNK:N	2.70	0.52
2:B:1785:GLU:O	2:B:1788:ALA:HB3	2.09	0.52
2:B:1884:TRP:N	2:B:1892:ASN:HB2	2.24	0.52
2:B:213:LEU:HD13	2:B:236:ILE:CG1	2.38	0.52
2:B:73:GLU:N	2:B:74:PRO:CD	2.72	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:87:CYS:C	2:B:90:GLU:HB3	2.29	0.52
1:D:1082:GLU:CA	1:D:1085:ASP:OD1	2.57	0.52
1:D:1117:GLU:HG3	1:D:1118:LYS:N	2.23	0.52
1:D:1174:TYR:O	1:D:1175:ILE:CB	2.56	0.52
1:D:1659:ASP:C	1:D:1661:LEU:H	2.12	0.52
1:D:412:UNK:C	1:D:414:UNK:N	2.72	0.52
1:D:742:LYS:O	1:D:744:ASP:N	2.42	0.52
1:D:874:GLY:HA3	1:D:899:LYS:HD2	1.91	0.52
1:D:998:TYR:HD1	1:D:999:LYS:HG2	1.74	0.52
2:E:1038:UNK:O	2:E:1040:UNK:N	2.42	0.52
2:E:1207:UNK:O	2:E:1208:UNK:CB	2.57	0.52
2:E:1773:ALA:C	2:E:1775:GLN:N	2.63	0.52
2:E:1868:GLN:O	2:E:1872:GLN:HB2	2.09	0.52
2:E:184:VAL:C	2:E:186:ASP:N	2.58	0.52
2:E:390:ASN:HA	2:E:393:LEU:CD2	2.39	0.52
2:E:60:LEU:O	2:E:64:PHE:N	2.39	0.52
2:E:615:UNK:O	2:E:617:UNK:N	2.42	0.52
2:E:647:UNK:HA	2:E:650:UNK:CB	2.39	0.52
1:G:1169:LYS:CG	1:G:1170:GLY:H	2.18	0.52
1:G:1254:VAL:CG1	1:G:1255:SER:H	2.18	0.52
1:G:1359:GLY:O	1:G:1360:ARG:O	2.27	0.52
1:G:1390:ALA:O	1:G:1393:ALA:HB3	2.09	0.52
1:G:1519:ILE:HD11	1:G:1521:PRO:HD2	1.90	0.52
1:G:1546:THR:O	1:G:1548:ALA:N	2.42	0.52
1:G:1579:PHE:CD2	1:G:1609:ARG:O	2.62	0.52
1:G:769:ILE:HB	1:G:823:ILE:CD1	2.38	0.52
1:G:749:ILE:HD11	1:G:802:MET:HE2	1.91	0.52
1:G:808:LYS:HA	1:G:808:LYS:CE	2.28	0.52
2:H:1008:UNK:O	2:H:1011:UNK:N	2.42	0.52
2:H:1642:UNK:O	2:H:1650:UNK:O	2.28	0.52
2:H:1678:MET:CA	2:H:1678:MET:HE2	2.39	0.52
2:H:258:PHE:CB	2:H:262:GLU:HB2	2.28	0.52
2:H:437:ASP:O	2:H:440:ASN:HB2	2.09	0.52
1:A:1288:ASN:O	1:A:1290:LEU:N	2.42	0.52
1:A:1371:THR:C	1:A:1373:ARG:H	2.11	0.52
1:A:1406:MET:HE3	1:A:1430:ARG:HD2	1.91	0.52
1:A:1638:ALA:O	1:A:1639:VAL:HG13	2.08	0.52
1:A:610:UNK:CB	1:A:873:ARG:HE	2.23	0.52
1:A:929:GLY:O	1:A:930:LEU:C	2.48	0.52
2:B:1162:UNK:C	2:B:1164:UNK:H	2.20	0.52
2:B:1169:UNK:C	2:B:1171:UNK:N	2.70	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1542:UNK:O	2:B:1543:UNK:CB	2.57	0.52
2:B:1770:LEU:O	2:B:1770:LEU:HD23	2.09	0.52
2:B:1871:LEU:C	2:B:1873:TYR:H	2.11	0.52
2:B:208:VAL:HG12	2:B:208:VAL:O	2.08	0.52
2:B:450:PHE:HD1	2:B:451:ASN:H	1.49	0.52
1:D:1056:ILE:C	1:D:1058:GLY:N	2.62	0.52
1:D:1122:ILE:HA	1:D:1182:ASP:O	2.10	0.52
1:D:1157:ILE:CG2	1:D:1158:PRO:HD2	2.23	0.52
1:D:1168:LEU:HD13	1:D:1169:LYS:CB	2.37	0.52
1:D:1210:PRO:HB3	1:D:1255:SER:CB	2.30	0.52
1:D:1224:ILE:HD13	1:D:1687:PHE:CD2	2.45	0.52
1:D:1284:SER:CB	1:D:1298:ILE:HD11	2.39	0.52
1:D:1519:ILE:HG12	1:D:1521:PRO:HD2	1.91	0.52
1:D:1532:THR:OG1	1:D:1535:ASP:CB	2.57	0.52
1:D:679:LEU:HA	1:D:704:VAL:O	2.09	0.52
1:D:696:LEU:H	1:D:696:LEU:HD23	1.74	0.52
1:D:696:LEU:H	1:D:696:LEU:CD2	2.22	0.52
1:D:940:THR:O	1:D:943:LEU:HB2	2.09	0.52
2:E:1333:UNK:O	2:E:1337:UNK:CB	2.57	0.52
2:E:1485:UNK:HA	2:E:1512:UNK:HA	1.90	0.52
2:E:1672:GLN:HB3	2:E:1781:LEU:CG	2.39	0.52
2:E:2033:UNK:O	2:E:2036:UNK:N	2.42	0.52
2:E:292:PHE:O	2:E:295:SER:HB3	2.08	0.52
2:E:522:GLY:HA2	2:E:555:UNK:O	2.08	0.52
2:E:719:UNK:O	2:E:720:UNK:CB	2.58	0.52
3:F:49:UNK:O	3:F:50:UNK:CB	2.57	0.52
1:G:1079:LYS:CG	1:G:1080:THR:N	2.71	0.52
1:G:1522:LEU:HB3	1:G:1526:LEU:HD23	1.91	0.52
1:G:832:THR:O	1:G:833:PHE:O	2.27	0.52
1:G:852:ARG:NH1	1:G:856:GLU:OE1	2.42	0.52
1:G:873:ARG:HG3	1:G:882:ASN:OD1	2.09	0.52
2:H:1720:HIS:HB2	2:H:1762:TYR:O	2.09	0.52
2:H:494:THR:HB	2:H:520:LYS:HZ2	1.73	0.52
2:H:762:UNK:O	2:H:763:UNK:CB	2.57	0.52
3:I:24:UNK:C	3:I:26:UNK:N	2.72	0.52
1:A:1030:TRP:CE2	1:A:1580:LEU:HD11	2.44	0.52
1:A:1104:ARG:O	1:A:1105:LEU:CG	2.56	0.52
1:A:1538:VAL:HG11	1:A:1599:ILE:HD12	1.91	0.52
1:A:1579:PHE:CD2	1:A:1609:ARG:O	2.62	0.52
1:A:1636:VAL:HG13	1:A:1657:HIS:CD2	2.44	0.52
1:A:1397:GLY:H	1:A:1676:LYS:CB	2.22	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:786:SER:O	1:A:787:LYS:C	2.47	0.52
2:B:1828:VAL:HG13	2:B:1829:GLU:N	2.24	0.52
2:B:1874:VAL:HG12	2:B:1878:VAL:CG2	2.40	0.52
2:B:1897:GLN:C	2:B:1899:VAL:H	2.11	0.52
2:B:612:UNK:O	2:B:613:UNK:CB	2.57	0.52
1:D:1459:ILE:HG13	1:D:1460:LYS:N	2.25	0.52
1:D:561:UNK:O	1:D:564:UNK:N	2.43	0.52
1:D:808:LYS:O	1:D:809:GLN:C	2.47	0.52
2:E:1047:UNK:C	2:E:1049:UNK:N	2.71	0.52
2:E:147:ARG:O	2:E:148:ALA:C	2.48	0.52
2:E:202:THR:O	2:E:203:LEU:C	2.47	0.52
2:E:386:LEU:O	2:E:389:LEU:HB3	2.08	0.52
1:G:1117:GLU:HG3	1:G:1118:LYS:N	2.23	0.52
1:G:1142:GLU:O	1:G:1143:GLN:C	2.48	0.52
1:G:1342:GLU:O	1:G:1346:MET:HB2	2.09	0.52
1:G:1478:PRO:O	1:G:1479:SER:CB	2.58	0.52
1:G:1616:LYS:O	1:G:1618:LEU:N	2.41	0.52
1:G:381:UNK:O	1:G:382:UNK:C	2.57	0.52
2:H:1917:ILE:HG22	2:H:1918:LYS:N	2.22	0.52
2:H:199:ILE:HG23	2:H:200:ARG:N	2.17	0.52
2:H:2020:UNK:O	2:H:2021:UNK:C	2.56	0.52
2:H:41:LEU:O	2:H:45:THR:HA	2.10	0.52
3:I:45:UNK:O	3:I:46:UNK:CB	2.56	0.52
1:A:1146:HIS:O	1:A:1148:HIS:N	2.43	0.52
1:A:1128:GLU:CB	1:A:1177:LYS:HG2	2.40	0.52
1:A:1207:GLN:C	1:A:1207:GLN:HE21	2.12	0.52
1:A:1455:ARG:NH1	1:A:1455:ARG:HG3	2.24	0.52
1:A:1691:GLY:HA2	1:A:1696:LYS:HB2	1.90	0.52
1:A:520:UNK:C	1:A:522:UNK:H2	2.21	0.52
1:A:910:THR:C	1:A:911:PRO:O	2.45	0.52
1:A:929:GLY:O	1:A:931:GLN:N	2.42	0.52
2:B:1827:LEU:O	2:B:1830:VAL:HG12	2.09	0.52
2:B:14:GLY:HA3	2:B:18:HIS:HB2	1.91	0.52
2:B:1924:ILE:C	2:B:1926:GLU:N	2.63	0.52
2:B:217:GLU:O	2:B:219:LEU:N	2.42	0.52
1:D:1119:LYS:HG2	1:D:1122:ILE:HG12	1.92	0.52
1:D:1151:LYS:O	1:D:1152:VAL:C	2.48	0.52
1:D:1425:ILE:O	1:D:1426:LEU:CB	2.57	0.52
1:D:1528:THR:O	1:D:1530:GLY:N	2.42	0.52
1:D:1599:ILE:HD11	1:D:1639:VAL:CG1	2.37	0.52
1:D:557:UNK:C	1:D:559:UNK:N	2.69	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:836:ASP:OD1	1:D:839:TYR:N	2.41	0.52
2:E:1169:UNK:C	2:E:1171:UNK:N	2.70	0.52
2:E:1551:UNK:O	2:E:1552:UNK:C	2.57	0.52
2:E:1675:GLY:O	2:E:1678:MET:HG2	2.09	0.52
2:E:404:GLN:HA	2:E:408:PRO:HB3	1.91	0.52
2:E:55:THR:HG22	2:E:55:THR:O	2.09	0.52
1:G:1240:VAL:HG13	1:G:1242:GLU:HB2	1.92	0.52
1:G:1491:ARG:C	1:G:1493:ILE:N	2.63	0.52
1:G:703:VAL:HG13	1:G:704:VAL:N	2.24	0.52
2:H:241:ILE:HG21	2:H:275:GLN:HG2	1.92	0.52
2:H:647:UNK:HA	2:H:650:UNK:CB	2.40	0.52
2:H:1784:MET:HE1	3:I:21:UNK:HA	1.88	0.52
1:A:1142:GLU:O	1:A:1143:GLN:C	2.46	0.52
1:A:1168:LEU:HD22	1:A:1169:LYS:N	2.15	0.52
1:A:1254:VAL:CG1	1:A:1255:SER:H	2.19	0.52
1:A:1541:PHE:HE2	1:A:1554:SER:OG	1.92	0.52
1:A:1659:ASP:C	1:A:1661:LEU:N	2.60	0.52
1:A:415:UNK:C	1:A:417:UNK:N	2.69	0.52
1:A:719:GLN:CG	1:A:720:SER:N	2.72	0.52
1:A:873:ARG:HH12	1:A:883:ILE:C	2.13	0.52
2:B:49:ALA:CA	2:B:118:LYS:HZ2	2.23	0.52
2:B:1737:ILE:HG23	2:B:1755:ILE:HG21	1.92	0.52
2:B:1773:ALA:C	2:B:1775:GLN:H	2.13	0.52
2:B:404:GLN:HA	2:B:408:PRO:HB3	1.90	0.52
2:B:53:GLU:HB3	2:B:56:THR:OG1	2.09	0.52
2:B:57:PRO:C	2:B:59:GLU:N	2.63	0.52
1:D:1009:LEU:CD1	1:D:1009:LEU:H	2.23	0.52
1:D:1530:GLY:O	1:D:1531:LEU:O	2.26	0.52
2:E:1673:GLU:N	2:E:1676:MET:HE1	2.23	0.52
2:E:218:TRP:CZ2	2:E:226:PRO:HG2	2.44	0.52
2:E:393:LEU:HD21	2:E:418:ASN:HB3	1.92	0.52
2:E:53:GLU:HB3	2:E:56:THR:OG1	2.09	0.52
2:E:924:UNK:O	2:E:925:UNK:C	2.56	0.52
1:G:1089:VAL:C	1:G:1091:ALA:N	2.62	0.52
1:G:1153:ASP:C	1:G:1155:PHE:H	2.13	0.52
1:G:1313:ASP:OD2	1:G:1407:ALA:O	2.26	0.52
1:G:386:UNK:C	1:G:388:UNK:N	2.71	0.52
1:G:826:MET:HE3	1:G:826:MET:HA	1.90	0.52
2:H:1333:UNK:O	2:H:1337:UNK:CB	2.57	0.52
2:H:1706:ILE:HD13	2:H:1783:LEU:HD12	1.90	0.52
2:H:1868:GLN:O	2:H:1872:GLN:HB2	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:1888:ILE:HA	2:H:1891:TYR:CZ	2.45	0.52
2:H:375:LYS:O	2:H:377:LEU:HD12	2.10	0.52
1:A:1075:TRP:CE3	1:A:1076:VAL:N	2.77	0.52
1:A:1241:SER:HB3	1:A:1295:SER:H	1.74	0.52
1:A:1555:ALA:HA	1:A:1558:ASN:HB3	1.91	0.52
1:A:1717:ASP:C	1:A:1719:LEU:H	2.12	0.52
1:A:529:UNK:HA	1:A:532:UNK:CB	2.40	0.52
1:A:808:LYS:O	1:A:809:GLN:C	2.48	0.52
1:A:826:MET:HA	1:A:826:MET:HE3	1.91	0.52
1:A:874:GLY:HA3	1:A:899:LYS:HD2	1.92	0.52
2:B:1333:UNK:O	2:B:1337:UNK:CB	2.58	0.52
2:B:184:VAL:O	2:B:184:VAL:HG22	2.10	0.52
2:B:390:ASN:HA	2:B:393:LEU:CD2	2.38	0.52
2:B:423:VAL:HG12	2:B:425:SER:O	2.09	0.52
1:D:1203:ASP:H	1:D:1205:ILE:HG13	1.67	0.52
1:D:1288:ASN:O	1:D:1290:LEU:N	2.42	0.52
1:D:388:UNK:O	1:D:389:UNK:C	2.57	0.52
1:D:679:LEU:O	1:D:679:LEU:CD1	2.58	0.52
1:D:917:CYS:SG	1:D:922:VAL:HB	2.50	0.52
2:E:1149:UNK:C	2:E:1151:UNK:N	2.73	0.52
2:E:1378:UNK:O	2:E:1379:UNK:CB	2.58	0.52
2:E:1709:ILE:HG22	2:E:1771:LEU:CD1	2.38	0.52
2:E:587:UNK:O	2:E:784:UNK:CB	2.58	0.52
1:G:1099:GLU:CG	1:G:1100:HIS:N	2.66	0.52
1:G:1426:LEU:CD1	1:G:1427:THR:HG23	2.39	0.52
1:G:1459:ILE:CG1	1:G:1460:LYS:N	2.73	0.52
1:G:1459:ILE:HG13	1:G:1460:LYS:N	2.24	0.52
1:G:1707:THR:O	1:G:1707:THR:OG1	2.25	0.52
1:G:1741:LYS:CE	1:G:1741:LYS:HA	2.39	0.52
1:G:458:UNK:HA	1:G:1631:LEU:HD21	1.92	0.52
2:H:173:LEU:O	2:H:176:LEU:HB3	2.09	0.52
2:H:1809:LEU:O	2:H:1811:GLU:N	2.43	0.52
2:H:1830:VAL:O	2:H:1833:TYR:N	2.42	0.52
2:H:1878:VAL:CB	2:H:1898:TYR:HE1	2.23	0.52
2:H:349:VAL:HG21	2:H:377:LEU:CD1	2.35	0.52
2:H:339:LEU:HB2	2:H:420:PHE:CE1	2.45	0.52
2:H:612:UNK:O	2:H:613:UNK:CB	2.58	0.52
2:H:843:UNK:O	2:H:845:UNK:N	2.43	0.52
1:A:1067:LEU:HD11	1:A:1073:THR:OG1	2.09	0.52
1:A:1370:THR:O	1:A:1371:THR:CB	2.58	0.52
1:A:1381:GLY:O	1:A:1382:ALA:HB2	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1455:ARG:C	1:A:1457:ALA:H	2.13	0.52
1:A:1657:HIS:NE2	1:A:1659:ASP:OD2	2.40	0.52
1:A:677:TYR:HA	1:A:702:LYS:O	2.10	0.52
1:A:696:LEU:CD2	1:A:696:LEU:H	2.23	0.52
1:A:940:THR:O	1:A:943:LEU:HB2	2.10	0.52
2:B:1208:UNK:O	2:B:1209:UNK:CB	2.57	0.52
2:B:1458:UNK:C	2:B:1460:UNK:N	2.69	0.52
2:B:147:ARG:O	2:B:148:ALA:C	2.47	0.52
2:B:1737:ILE:HD12	2:B:1755:ILE:HD12	1.91	0.52
2:B:260:PRO:HG3	2:B:292:PHE:CB	2.35	0.52
2:B:390:ASN:C	2:B:393:LEU:HB3	2.30	0.52
2:B:809:UNK:O	2:B:811:UNK:N	2.43	0.52
1:D:1084:VAL:C	1:D:1086:ASP:N	2.56	0.52
1:D:1122:ILE:O	1:D:1122:ILE:HG13	2.09	0.52
1:D:1253:GLY:O	1:D:1254:VAL:C	2.48	0.52
1:D:1326:ILE:N	1:D:1326:ILE:CD1	2.72	0.52
1:D:1455:ARG:C	1:D:1457:ALA:H	2.13	0.52
1:D:1659:ASP:C	1:D:1661:LEU:N	2.61	0.52
1:D:386:UNK:C	1:D:388:UNK:N	2.72	0.52
1:D:490:UNK:O	1:D:493:UNK:N	2.43	0.52
1:D:537:UNK:CB	1:D:585:UNK:CB	2.88	0.52
1:D:443:UNK:CB	1:D:731:THR:HA	2.40	0.52
2:E:1341:UNK:O	2:E:1342:UNK:CB	2.57	0.52
2:E:1441:UNK:C	2:E:1443:UNK:N	2.71	0.52
2:E:1738:PHE:HB3	2:E:1739:GLU:OE2	2.09	0.52
2:E:1785:GLU:O	2:E:1788:ALA:HB3	2.08	0.52
2:E:1917:ILE:CG2	2:E:1918:LYS:H	2.15	0.52
2:E:678:UNK:O	2:E:679:UNK:C	2.57	0.52
2:E:841:UNK:C	2:E:843:UNK:N	2.70	0.52
1:G:1119:LYS:O	1:G:1119:LYS:HD2	2.08	0.52
1:G:1349:THR:HG22	1:G:1350:SER:N	2.23	0.52
1:G:1532:THR:OG1	1:G:1535:ASP:CB	2.58	0.52
1:G:917:CYS:SG	1:G:922:VAL:CG2	2.97	0.52
1:G:940:THR:O	1:G:943:LEU:HB2	2.10	0.52
2:H:1208:UNK:O	2:H:1209:UNK:CB	2.57	0.52
2:H:1246:UNK:O	2:H:1247:UNK:C	2.57	0.52
2:H:1264:UNK:C	2:H:1266:UNK:N	2.69	0.52
2:H:1753:LYS:C	2:H:1755:ILE:H	2.12	0.52
2:H:1917:ILE:CG2	2:H:1918:LYS:H	2.17	0.52
2:H:1931:LEU:HA	2:H:1934:GLU:HB3	1.90	0.52
2:H:53:GLU:HB3	2:H:56:THR:OG1	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:841:UNK:C	2:H:843:UNK:N	2.70	0.52
1:A:1035:THR:O	1:A:1038:GLU:HB2	2.10	0.52
1:A:1426:LEU:HD12	1:A:1427:THR:CG2	2.40	0.52
1:A:1448:ARG:O	1:A:1451:GLN:HB3	2.10	0.52
1:A:1711:GLU:CG	1:A:1715:TYR:HE1	2.09	0.52
2:B:1614:UNK:CB	2:B:1650:UNK:HA	2.40	0.52
2:B:1642:UNK:O	2:B:1650:UNK:O	2.28	0.52
2:B:184:VAL:C	2:B:186:ASP:N	2.61	0.52
2:B:41:LEU:HD13	2:B:46:GLU:HA	1.91	0.52
2:B:79:GLN:HB3	2:B:80:PHE:HD1	1.74	0.52
1:D:1215:VAL:HG11	1:D:1283:MET:CG	2.39	0.52
1:D:1219:VAL:HG23	1:D:1328:ILE:CD1	2.40	0.52
1:D:1455:ARG:HG3	1:D:1455:ARG:NH1	2.23	0.52
1:D:1519:ILE:HD13	1:D:1519:ILE:C	2.29	0.52
1:D:1430:ARG:HH21	1:D:1560:MET:CE	2.22	0.52
1:D:552:UNK:C	1:D:554:UNK:H	2.18	0.52
1:D:747:ALA:O	1:D:750:GLU:HB3	2.10	0.52
1:D:904:ASN:O	1:D:905:LEU:C	2.47	0.52
2:E:1740:THR:HB	2:E:1751:ILE:HG13	1.90	0.52
2:E:1827:LEU:O	2:E:1830:VAL:HG12	2.10	0.52
2:E:2020:UNK:O	2:E:2021:UNK:C	2.58	0.52
2:E:240:LEU:O	2:E:243:VAL:HB	2.09	0.52
2:E:260:PRO:HG3	2:E:292:PHE:CB	2.35	0.52
2:E:390:ASN:O	2:E:394:ARG:HG3	2.10	0.52
1:G:1544:THR:O	1:G:1545:SER:HB3	2.10	0.52
1:G:1558:ASN:C	1:G:1560:MET:N	2.63	0.52
1:G:1562:LYS:NZ	1:G:1621:PHE:HZ	2.08	0.52
1:G:1577:GLN:OE1	1:G:1592:MET:HA	2.10	0.52
1:G:786:SER:O	1:G:787:LYS:C	2.49	0.52
2:H:122:LEU:C	2:H:122:LEU:HD23	2.29	0.52
2:H:1672:GLN:HB2	2:H:1676:MET:HE1	1.91	0.52
2:H:1961:UNK:O	2:H:1963:UNK:N	2.42	0.52
2:H:386:LEU:O	2:H:389:LEU:HB3	2.09	0.52
2:H:480:VAL:HG13	2:H:484:ILE:HD11	1.92	0.52
2:H:489:LYS:O	2:H:491:GLU:N	2.43	0.52
2:H:91:PHE:C	2:H:93:ASN:H	2.13	0.52
1:A:1169:LYS:NZ	1:A:1170:GLY:H	2.06	0.52
1:A:1290:LEU:O	1:A:1291:LEU:HB2	2.09	0.52
1:A:1342:GLU:O	1:A:1346:MET:HB2	2.09	0.52
1:A:1425:ILE:O	1:A:1426:LEU:CB	2.58	0.52
1:A:1491:ARG:C	1:A:1493:ILE:N	2.63	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1605:ILE:HG13	1:A:1628:SER:CB	2.39	0.52
1:A:1741:LYS:HZ1	1:A:1744:TYR:HD2	1.58	0.52
1:A:952:GLU:O	1:A:956:ALA:HB2	2.10	0.52
2:B:1739:GLU:O	2:B:1741:ILE:HG13	2.10	0.52
2:B:60:LEU:HD12	2:B:60:LEU:H	1.75	0.52
3:C:49:UNK:O	3:C:50:UNK:CB	2.57	0.52
1:D:1031:GLY:O	1:D:1032:SER:C	2.48	0.52
1:D:1094:GLU:HG3	1:D:1095:THR:N	2.25	0.52
1:D:1172:THR:HG22	1:D:1172:THR:O	2.09	0.52
1:D:1377:MET:O	1:D:1378:GLU:O	2.27	0.52
1:D:1534:ASP:O	1:D:1566:ARG:NE	2.37	0.52
2:E:1182:UNK:O	2:E:1183:UNK:O	2.28	0.52
2:E:1753:LYS:C	2:E:1755:ILE:H	2.12	0.52
2:E:1809:LEU:O	2:E:1811:GLU:N	2.43	0.52
2:E:402:LEU:HD22	2:E:405:SER:OG	2.10	0.52
1:G:1082:GLU:CA	1:G:1085:ASP:OD1	2.58	0.52
1:G:1173:LEU:O	1:G:1174:TYR:HB2	2.10	0.52
1:G:1190:PRO:O	1:G:1191:THR:OG1	2.28	0.52
1:G:1426:LEU:HD12	1:G:1427:THR:CG2	2.40	0.52
1:G:1449:LYS:O	1:G:1453:VAL:HG23	2.10	0.52
1:G:1554:SER:CB	1:G:1623:TYR:OH	2.57	0.52
1:G:1536:LEU:CB	1:G:1638:ALA:HB3	2.39	0.52
1:G:1741:LYS:C	1:G:1743:SER:H	2.12	0.52
1:G:580:UNK:O	1:G:581:UNK:C	2.58	0.52
1:G:680:ILE:HD11	1:G:703:VAL:HG13	1.91	0.52
1:G:957:VAL:HG12	1:G:961:THR:OG1	2.10	0.52
2:H:1207:UNK:O	2:H:1208:UNK:CB	2.58	0.52
2:H:1551:UNK:O	2:H:1552:UNK:C	2.57	0.52
2:H:1883:GLY:HA2	2:H:1894:GLU:HG2	1.92	0.52
2:H:145:LEU:HD21	2:H:544:LYS:HG2	1.91	0.52
1:A:1459:ILE:CG1	1:A:1460:LYS:N	2.73	0.52
1:A:1534:ASP:O	1:A:1566:ARG:NE	2.35	0.52
1:A:1430:ARG:HH21	1:A:1560:MET:CE	2.23	0.52
1:A:693:LEU:HG	1:A:697:LEU:HD12	1.92	0.52
1:A:803:MET:CE	1:A:822:VAL:HG11	2.38	0.52
2:B:1038:UNK:O	2:B:1040:UNK:N	2.43	0.52
2:B:1557:UNK:O	2:B:1558:UNK:C	2.58	0.52
2:B:1792:LEU:HA	2:B:1797:LEU:CD1	2.40	0.52
2:B:1869:GLU:C	2:B:1871:LEU:N	2.61	0.52
2:B:306:ILE:HG22	2:B:310:CYS:SG	2.49	0.52
2:B:525:VAL:HG12	2:B:525:VAL:O	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1151:LYS:O	1:D:1152:VAL:O	2.28	0.52
1:D:1022:THR:O	1:D:1401:TYR:CE2	2.62	0.52
1:D:1513:TYR:HD1	1:D:1513:TYR:H	1.56	0.52
1:D:1654:ILE:HG12	1:D:1655:VAL:N	2.25	0.52
1:D:1735:SER:C	1:D:1737:ASN:H	2.11	0.52
1:D:529:UNK:HA	1:D:532:UNK:CB	2.40	0.52
2:E:1888:ILE:HA	2:E:1891:TYR:CZ	2.45	0.52
2:E:73:GLU:N	2:E:74:PRO:CD	2.73	0.52
3:F:45:UNK:O	3:F:46:UNK:CB	2.57	0.52
1:G:1030:TRP:CE2	1:G:1580:LEU:HD11	2.45	0.52
1:G:1189:ILE:CG2	1:G:1190:PRO:CD	2.72	0.52
1:G:1221:GLU:HA	1:G:1224:ILE:CG2	2.40	0.52
1:G:1245:ASN:ND2	1:G:1288:ASN:ND2	2.57	0.52
1:G:1249:SER:OG	1:G:1250:GLY:N	2.43	0.52
1:G:1299:LYS:HZ3	1:G:1323:LYS:NZ	2.05	0.52
1:G:1562:LYS:CE	1:G:1621:PHE:HZ	2.23	0.52
1:G:1641:ILE:HD11	1:G:1653:ALA:O	2.10	0.52
1:G:394:UNK:O	1:G:395:UNK:C	2.58	0.52
1:G:520:UNK:C	1:G:522:UNK:H2	2.22	0.52
1:G:586:UNK:C	1:G:588:UNK:N	2.72	0.52
2:H:1675:GLY:O	2:H:1678:MET:HG2	2.10	0.52
2:H:1673:GLU:N	2:H:1676:MET:HE1	2.23	0.52
2:H:2047:UNK:O	2:H:2049:UNK:N	2.42	0.52
2:H:218:TRP:CZ2	2:H:226:PRO:HG2	2.45	0.52
2:H:338:MET:N	2:H:386:LEU:CD1	2.73	0.52
2:H:390:ASN:O	2:H:394:ARG:HG3	2.10	0.52
2:H:730:UNK:O	2:H:732:UNK:N	2.43	0.52
1:A:1041:ALA:HB1	1:A:1042:PHE:CD1	2.45	0.51
1:A:1135:GLU:O	1:A:1136:ALA:HB3	2.10	0.51
1:A:1153:ASP:C	1:A:1155:PHE:H	2.12	0.51
1:A:1223:PHE:CD2	1:A:1386:ILE:HD13	2.45	0.51
1:A:1341:PHE:O	1:A:1342:GLU:CB	2.54	0.51
1:A:1478:PRO:O	1:A:1479:SER:CB	2.58	0.51
1:A:304:UNK:O	1:A:305:UNK:CB	2.58	0.51
1:A:601:UNK:CB	1:A:605:UNK:CB	2.88	0.51
1:A:680:ILE:HD12	1:A:704:VAL:O	2.10	0.51
2:B:1181:UNK:O	2:B:1182:UNK:CB	2.57	0.51
2:B:1415:UNK:O	2:B:1416:UNK:CB	2.58	0.51
2:B:1729:ILE:HG23	2:B:1730:ARG:N	2.12	0.51
2:B:174:ARG:C	2:B:176:LEU:H	2.12	0.51
2:B:1868:GLN:O	2:B:1872:GLN:HB2	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:232:LEU:O	2:B:232:LEU:HD23	2.10	0.51
2:B:370:LEU:HB3	2:B:372:ASN:OD1	2.09	0.51
2:B:390:ASN:HA	2:B:393:LEU:CB	2.35	0.51
2:B:843:UNK:O	2:B:845:UNK:N	2.43	0.51
2:B:887:UNK:O	2:B:888:UNK:CB	2.57	0.51
3:C:37:UNK:O	3:C:39:UNK:N	2.42	0.51
1:D:1320:LEU:O	1:D:1321:SER:C	2.48	0.51
1:D:1329:VAL:CG1	1:D:1385:GLN:N	2.71	0.51
1:D:1562:LYS:NZ	1:D:1621:PHE:HZ	2.06	0.51
1:D:666:UNK:O	1:D:667:UNK:C	2.58	0.51
1:D:737:PHE:HE1	1:D:745:VAL:HA	1.75	0.51
1:D:803:MET:HB3	1:D:862:LEU:HD11	1.90	0.51
2:E:1698:PHE:C	2:E:1700:ASP:H	2.12	0.51
2:E:1830:VAL:O	2:E:1833:TYR:N	2.43	0.51
2:E:1887:GLU:CD	2:E:1888:ILE:H	2.13	0.51
2:E:753:UNK:O	2:E:754:UNK:C	2.58	0.51
1:G:1057:MET:HE3	1:G:1193:TRP:O	2.10	0.51
1:G:1286:TRP:C	1:G:1288:ASN:N	2.63	0.51
1:G:1371:THR:O	1:G:1373:ARG:HG3	2.10	0.51
1:G:1604:ILE:HG23	1:G:1630:THR:CB	2.40	0.51
1:G:1658:PRO:O	1:G:1660:TYR:N	2.35	0.51
1:G:1729:GLY:O	1:G:1730:SER:HB3	2.08	0.51
1:G:561:UNK:O	1:G:564:UNK:N	2.43	0.51
1:G:666:UNK:O	1:G:667:UNK:C	2.59	0.51
2:H:1650:UNK:C	2:H:1652:UNK:N	2.72	0.51
2:H:1740:THR:HB	2:H:1751:ILE:HG13	1.92	0.51
2:H:1754:GLU:C	2:H:1756:ASN:N	2.63	0.51
2:H:304:PHE:O	2:H:308:VAL:HG23	2.09	0.51
2:H:676:UNK:O	2:H:677:UNK:C	2.57	0.51
2:H:703:UNK:C	2:H:705:UNK:N	2.71	0.51
1:A:1151:LYS:O	1:A:1152:VAL:C	2.48	0.51
1:A:1250:GLY:HA3	1:A:1333:ASP:OD2	2.10	0.51
1:A:1459:ILE:HG13	1:A:1460:LYS:N	2.25	0.51
1:A:1470:LEU:HD21	1:A:1485:PHE:HE2	1.75	0.51
1:A:1599:ILE:HG13	1:A:1600:LEU:N	2.25	0.51
1:A:1692:MET:CA	1:A:1697:LEU:HD11	2.38	0.51
1:A:832:THR:O	1:A:833:PHE:O	2.28	0.51
2:B:1041:UNK:O	2:B:1042:UNK:C	2.58	0.51
2:B:1531:UNK:O	2:B:1532:UNK:CB	2.57	0.51
2:B:1738:PHE:HB3	2:B:1739:GLU:OE2	2.10	0.51
2:B:1883:GLY:HA2	2:B:1894:GLU:HG2	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:240:LEU:CD1	2:B:240:LEU:H	2.23	0.51
2:B:437:ASP:O	2:B:440:ASN:HB2	2.10	0.51
2:B:699:UNK:O	2:B:702:UNK:N	2.44	0.51
2:B:70:SER:HB2	2:B:72:VAL:O	2.11	0.51
3:C:27:UNK:C	3:C:29:UNK:N	2.71	0.51
1:D:1139:GLU:CG	1:D:1140:THR:N	2.72	0.51
1:D:1329:VAL:HG12	1:D:1385:GLN:O	2.10	0.51
1:D:1518:ARG:O	1:D:1519:ILE:HB	2.10	0.51
1:D:1332:TYR:CA	1:D:1587:ALA:HB2	2.40	0.51
1:D:1605:ILE:N	1:D:1605:ILE:HD13	2.25	0.51
1:D:1637:ARG:O	1:D:1656:VAL:HG23	2.09	0.51
1:D:1707:THR:O	1:D:1707:THR:OG1	2.22	0.51
1:D:882:ASN:C	1:D:883:ILE:HG13	2.30	0.51
2:E:1340:UNK:O	2:E:1341:UNK:C	2.58	0.51
2:E:1542:UNK:O	2:E:1543:UNK:CB	2.58	0.51
2:E:1602:UNK:C	2:E:1604:UNK:N	2.70	0.51
2:E:1680:LEU:O	2:E:1681:TYR:C	2.48	0.51
2:E:1785:GLU:OE1	2:E:1813:ALA:HB1	2.10	0.51
2:E:1878:VAL:CB	2:E:1898:TYR:HE1	2.21	0.51
2:E:578:UNK:O	2:E:580:UNK:N	2.44	0.51
2:E:71:LEU:HD12	2:E:76:LYS:NZ	2.25	0.51
2:E:956:UNK:C	2:E:958:UNK:N	2.70	0.51
1:G:1126:ILE:CG2	1:G:1177:LYS:HB3	2.40	0.51
1:G:1274:ILE:CG2	1:G:1275:LEU:N	2.73	0.51
1:G:610:UNK:CB	1:G:873:ARG:HE	2.23	0.51
2:H:1806:GLY:HA3	2:H:1811:GLU:HG2	1.92	0.51
2:H:1871:LEU:HD23	2:H:1871:LEU:C	2.30	0.51
2:H:187:LEU:HD22	2:H:296:VAL:HG11	1.91	0.51
2:H:514:VAL:O	2:H:517:HIS:N	2.43	0.51
1:A:1074:GLY:O	1:A:1075:TRP:HB3	2.10	0.51
1:A:1423:LYS:HG2	1:A:1424:GLY:N	2.25	0.51
1:A:1589:GLY:HA2	1:A:1592:MET:HE2	1.92	0.51
1:A:281:UNK:C	1:A:283:UNK:N	2.72	0.51
1:A:890:LYS:C	1:A:892:GLY:H	2.13	0.51
2:B:1441:UNK:C	2:B:1443:UNK:N	2.73	0.51
2:B:1644:UNK:C	2:B:1646:UNK:N	2.70	0.51
2:B:183:LEU:O	2:B:184:VAL:HB	2.09	0.51
2:B:2040:UNK:O	2:B:2042:UNK:N	2.43	0.51
2:B:240:LEU:O	2:B:243:VAL:HB	2.10	0.51
2:B:249:TYR:CE2	2:B:283:ILE:HG23	2.45	0.51
2:B:264:ARG:HD3	2:B:286:THR:O	2.09	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:304:PHE:O	2:B:308:VAL:HG23	2.10	0.51
2:B:522:GLY:HA2	2:B:555:UNK:O	2.10	0.51
2:B:730:UNK:O	2:B:732:UNK:N	2.44	0.51
1:D:1286:TRP:C	1:D:1288:ASN:N	2.62	0.51
1:D:1250:GLY:HA3	1:D:1333:ASP:OD2	2.11	0.51
1:D:1370:THR:H	1:D:1547:LYS:CD	2.21	0.51
1:D:1370:THR:O	1:D:1371:THR:CB	2.59	0.51
1:D:1423:LYS:HG2	1:D:1424:GLY:N	2.25	0.51
1:D:1478:PRO:O	1:D:1479:SER:CB	2.59	0.51
1:D:1735:SER:O	1:D:1737:ASN:N	2.43	0.51
1:D:586:UNK:C	1:D:588:UNK:N	2.71	0.51
1:D:693:LEU:C	1:D:695:GLY:N	2.63	0.51
1:D:774:ILE:CD1	1:D:775:PRO:HD2	2.38	0.51
1:D:928:GLY:C	1:D:930:LEU:N	2.60	0.51
2:E:1264:UNK:C	2:E:1266:UNK:N	2.69	0.51
2:E:1850:SER:C	2:E:1852:TYR:H	2.14	0.51
2:E:41:LEU:O	2:E:45:THR:HA	2.10	0.51
2:E:248:HIS:HE1	2:E:530:ALA:HB2	1.75	0.51
2:E:765:UNK:C	2:E:767:UNK:N	2.69	0.51
1:G:1541:PHE:HE2	1:G:1554:SER:OG	1.94	0.51
1:G:1584:PRO:HG2	1:G:1584:PRO:O	2.11	0.51
1:G:1021:VAL:HG11	1:G:1597:LEU:HD11	1.90	0.51
1:G:1706:TYR:HD1	1:G:1706:TYR:N	2.09	0.51
1:G:1826:UNK:O	1:G:1827:UNK:CB	2.58	0.51
1:G:679:LEU:HD21	1:G:802:MET:CE	2.41	0.51
2:H:1038:UNK:O	2:H:1040:UNK:N	2.43	0.51
2:H:1169:UNK:C	2:H:1171:UNK:N	2.69	0.51
2:H:1857:ILE:HG12	2:H:1949:UNK:CB	2.40	0.51
2:H:244:ILE:HG22	2:H:248:HIS:CD2	2.45	0.51
2:H:408:PRO:HG2	2:H:409:PHE:N	2.25	0.51
2:H:765:UNK:C	2:H:767:UNK:N	2.68	0.51
1:A:1151:LYS:O	1:A:1152:VAL:O	2.28	0.51
1:A:1161:GLY:O	1:A:1164:SER:HB3	2.10	0.51
1:A:1353:LEU:CA	1:A:1356:PHE:CB	2.88	0.51
1:A:1373:ARG:HG2	1:A:1547:LYS:HB3	1.92	0.51
1:A:1544:THR:O	1:A:1545:SER:HB3	2.10	0.51
1:A:1687:PHE:O	1:A:1690:ASN:HB3	2.10	0.51
2:B:1573:UNK:C	2:B:1575:UNK:N	2.72	0.51
2:B:1754:GLU:C	2:B:1756:ASN:N	2.62	0.51
2:B:192:ALA:O	2:B:193:GLU:C	2.48	0.51
2:B:253:ALA:O	2:B:255:LEU:N	2.44	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:735:UNK:C	2:B:737:UNK:N	2.70	0.51
2:B:99:ASN:O	2:B:100:ASP:HB3	2.11	0.51
1:D:1371:THR:C	1:D:1373:ARG:H	2.13	0.51
1:D:1426:LEU:CD1	1:D:1427:THR:HG23	2.39	0.51
1:D:1571:PRO:O	1:D:1572:VAL:C	2.49	0.51
1:D:1604:ILE:HG23	1:D:1630:THR:CB	2.39	0.51
1:D:304:UNK:O	1:D:305:UNK:CB	2.58	0.51
1:D:826:MET:HA	1:D:826:MET:HE3	1.93	0.51
1:D:912:GLU:O	1:D:913:VAL:C	2.48	0.51
1:D:917:CYS:HA	1:D:920:SER:O	2.10	0.51
1:D:917:CYS:SG	1:D:922:VAL:CG2	2.98	0.51
2:E:132:MET:O	2:E:133:ALA:CB	2.58	0.51
2:E:1837:THR:C	2:E:1839:GLN:H	2.13	0.51
2:E:1986:UNK:C	2:E:1988:UNK:H	2.22	0.51
2:E:668:UNK:O	2:E:669:UNK:CB	2.58	0.51
2:E:730:UNK:O	2:E:732:UNK:N	2.44	0.51
1:G:1139:GLU:CG	1:G:1140:THR:N	2.73	0.51
1:G:1423:LYS:HG2	1:G:1424:GLY:N	2.25	0.51
1:G:1455:ARG:C	1:G:1457:ALA:H	2.13	0.51
1:G:1532:THR:O	1:G:1533:ILE:C	2.48	0.51
1:G:1430:ARG:HH21	1:G:1560:MET:CE	2.24	0.51
1:G:601:UNK:CB	1:G:605:UNK:CB	2.88	0.51
1:G:796:LEU:HG	1:G:797:THR:N	2.22	0.51
2:H:1275:UNK:O	2:H:1276:UNK:C	2.57	0.51
2:H:71:LEU:HD12	2:H:76:LYS:NZ	2.26	0.51
2:H:809:UNK:O	2:H:811:UNK:N	2.43	0.51
2:H:895:UNK:O	2:H:898:UNK:N	2.43	0.51
1:A:1159:GLU:O	1:A:1166:LYS:HB3	2.10	0.51
1:A:1325:ARG:O	1:A:1326:ILE:HB	2.10	0.51
1:A:1367:ARG:NH1	1:A:1372:THR:HG21	2.26	0.51
1:A:1688:PHE:O	1:A:1689:HIS:C	2.49	0.51
1:A:521:UNK:O	1:A:522:UNK:C	2.59	0.51
1:A:586:UNK:C	1:A:588:UNK:N	2.71	0.51
2:B:2033:UNK:C	2:B:2035:UNK:N	2.72	0.51
2:B:27:PHE:O	2:B:30:ALA:HB3	2.09	0.51
2:B:615:UNK:O	2:B:617:UNK:N	2.43	0.51
2:B:703:UNK:O	2:B:707:UNK:N	2.44	0.51
1:D:1119:LYS:HE3	1:D:1121:MET:CG	2.41	0.51
1:D:1146:HIS:O	1:D:1148:HIS:N	2.44	0.51
1:D:1187:GLY:CA	1:D:1188:GLN:NE2	2.74	0.51
1:D:1519:ILE:HD11	1:D:1521:PRO:HD2	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1397:GLY:H	1:D:1676:LYS:CB	2.23	0.51
1:D:864:VAL:O	1:D:865:CYS:HB2	2.10	0.51
1:D:882:ASN:O	1:D:883:ILE:HG13	2.11	0.51
2:E:19:VAL:O	2:E:19:VAL:HG12	2.10	0.51
2:E:232:LEU:HD23	2:E:232:LEU:O	2.11	0.51
2:E:158:ALA:H	2:E:270:ALA:H	1.57	0.51
2:E:349:VAL:HG21	2:E:377:LEU:CD1	2.33	0.51
2:E:703:UNK:O	2:E:707:UNK:N	2.44	0.51
2:E:809:UNK:O	2:E:811:UNK:N	2.43	0.51
1:G:1131:LEU:CA	1:G:1173:LEU:HD22	2.40	0.51
1:G:1456:GLU:N	1:G:1459:ILE:HG12	2.23	0.51
1:G:1540:SER:OG	1:G:1592:MET:HB3	2.10	0.51
1:G:1654:ILE:HG12	1:G:1655:VAL:N	2.24	0.51
1:G:681:THR:HA	1:G:706:THR:HG21	1.92	0.51
1:G:747:ALA:O	1:G:751:PHE:N	2.37	0.51
2:H:49:ALA:CA	2:H:118:LYS:HZ2	2.21	0.51
2:H:1773:ALA:C	2:H:1775:GLN:N	2.64	0.51
2:H:259:THR:CG2	2:H:260:PRO:HD2	2.35	0.51
2:H:271:THR:HG23	2:H:460:TYR:O	2.10	0.51
2:H:55:THR:O	2:H:55:THR:HG22	2.10	0.51
2:H:615:UNK:O	2:H:617:UNK:N	2.43	0.51
2:H:73:GLU:N	2:H:74:PRO:CD	2.74	0.51
1:A:1080:THR:O	1:A:1082:GLU:N	2.43	0.51
1:A:1353:LEU:HA	1:A:1356:PHE:CB	2.40	0.51
1:A:1532:THR:O	1:A:1533:ILE:C	2.48	0.51
1:A:1590:ALA:O	1:A:1593:MET:HB3	2.09	0.51
1:A:1616:LYS:O	1:A:1618:LEU:N	2.43	0.51
1:A:1735:SER:C	1:A:1737:ASN:N	2.63	0.51
1:A:679:LEU:HA	1:A:704:VAL:O	2.11	0.51
1:A:696:LEU:HD23	1:A:696:LEU:H	1.75	0.51
2:B:1182:UNK:O	2:B:1183:UNK:O	2.28	0.51
2:B:1429:UNK:O	2:B:1430:UNK:C	2.57	0.51
2:B:490:TRP:O	2:B:493:THR:N	2.44	0.51
1:D:1100:HIS:O	1:D:1103:ILE:HB	2.11	0.51
1:D:1160:THR:CB	1:D:1166:LYS:HE3	2.39	0.51
1:D:1266:LYS:O	1:D:1267:ASP:C	2.48	0.51
1:D:1475:GLU:O	1:D:1478:PRO:HD2	2.09	0.51
1:D:1580:LEU:C	1:D:1581:THR:OG1	2.49	0.51
1:D:742:LYS:HB2	1:D:746:GLU:HG3	1.92	0.51
1:D:910:THR:HG22	1:D:913:VAL:HG21	1.93	0.51
2:E:1644:UNK:C	2:E:1646:UNK:N	2.72	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:338:MET:N	2:E:386:LEU:CD1	2.73	0.51
2:E:514:VAL:O	2:E:517:HIS:N	2.44	0.51
1:G:1079:LYS:C	1:G:1080:THR:HG1	2.13	0.51
1:G:1080:THR:O	1:G:1082:GLU:N	2.44	0.51
1:G:1135:GLU:O	1:G:1136:ALA:HB3	2.11	0.51
1:G:1215:VAL:HG11	1:G:1283:MET:CG	2.40	0.51
1:G:1219:VAL:HG23	1:G:1328:ILE:CD1	2.40	0.51
1:G:1224:ILE:HD13	1:G:1687:PHE:CD2	2.46	0.51
1:G:1546:THR:CG2	1:G:1549:ASN:HB3	2.40	0.51
1:G:1605:ILE:HG13	1:G:1628:SER:CB	2.40	0.51
1:G:1665:ILE:HD12	1:G:1669:ARG:N	2.19	0.51
1:G:377:UNK:O	1:G:380:UNK:CB	2.57	0.51
1:G:774:ILE:HD13	1:G:775:PRO:HD2	1.91	0.51
2:H:14:GLY:HA3	2:H:18:HIS:HB2	1.92	0.51
2:H:1837:THR:C	2:H:1839:GLN:H	2.14	0.51
2:H:1853:GLY:O	2:H:1854:MET:HB3	2.10	0.51
2:H:230:TYR:C	2:H:232:LEU:N	2.63	0.51
2:H:240:LEU:CD1	2:H:240:LEU:H	2.22	0.51
2:H:440:ASN:O	2:H:443:LEU:HB2	2.10	0.51
2:H:949:UNK:C	2:H:951:UNK:N	2.74	0.51
3:I:49:UNK:O	3:I:50:UNK:CB	2.59	0.51
1:A:1083:PRO:HG2	1:A:1084:VAL:N	2.25	0.51
1:A:1055:TRP:HH2	1:A:1198:TYR:HD1	1.59	0.51
1:A:1284:SER:CB	1:A:1298:ILE:HD11	2.41	0.51
1:A:1522:LEU:HB3	1:A:1526:LEU:HD23	1.92	0.51
1:A:1541:PHE:CE2	1:A:1554:SER:OG	2.62	0.51
1:A:1569:GLY:C	1:A:1571:PRO:HD3	2.31	0.51
1:A:1571:PRO:O	1:A:1572:VAL:C	2.49	0.51
1:A:1597:LEU:H	1:A:1597:LEU:HD23	1.75	0.51
1:A:1700:SER:C	1:A:1701:LYS:HD3	2.31	0.51
1:A:747:ALA:O	1:A:750:GLU:HB3	2.11	0.51
2:B:1680:LEU:O	2:B:1681:TYR:C	2.49	0.51
2:B:1718:THR:HG23	2:B:1765:ARG:CA	2.40	0.51
2:B:1773:ALA:C	2:B:1775:GLN:N	2.64	0.51
2:B:1837:THR:C	2:B:1839:GLN:H	2.14	0.51
2:B:924:UNK:O	2:B:925:UNK:C	2.58	0.51
1:D:1019:ILE:HG13	1:D:1316:VAL:CG2	2.37	0.51
1:D:1036:ARG:HH21	1:D:1040:GLU:CB	2.24	0.51
1:D:1089:VAL:C	1:D:1091:ALA:N	2.64	0.51
1:D:1197:THR:OG1	1:D:1200:ILE:HG22	2.09	0.51
1:D:1224:ILE:CD1	1:D:1687:PHE:HD2	2.24	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1239:HIS:C	1:D:1241:SER:N	2.60	0.51
1:D:1241:SER:C	1:D:1243:VAL:N	2.64	0.51
1:D:1652:GLN:CD	1:D:1653:ALA:N	2.64	0.51
1:D:1868:UNK:CB	1:D:1885:UNK:HA	2.40	0.51
1:D:460:UNK:C	1:D:462:UNK:N	2.71	0.51
1:D:786:SER:O	1:D:787:LYS:C	2.49	0.51
2:E:1061:UNK:C	2:E:1063:UNK:N	2.73	0.51
2:E:1786:LYS:O	2:E:1787:ALA:C	2.49	0.51
2:E:264:ARG:HB2	2:E:284:ALA:O	2.10	0.51
2:E:57:PRO:C	2:E:59:GLU:N	2.63	0.51
2:E:646:UNK:O	2:E:648:UNK:N	2.43	0.51
2:E:91:PHE:C	2:E:93:ASN:H	2.13	0.51
1:G:1035:THR:O	1:G:1038:GLU:HB2	2.10	0.51
1:G:1065:GLY:C	1:G:1067:LEU:N	2.62	0.51
1:G:1119:LYS:O	1:G:1120:GLU:HB2	2.11	0.51
1:G:1172:THR:O	1:G:1172:THR:HG22	2.11	0.51
1:G:1187:GLY:C	1:G:1188:GLN:CD	2.69	0.51
1:G:1223:PHE:HE2	1:G:1386:ILE:CG2	2.12	0.51
1:G:1425:ILE:O	1:G:1426:LEU:CB	2.58	0.51
1:G:705:VAL:HG23	1:G:732:LEU:HD11	1.92	0.51
1:G:791:ALA:HA	1:G:794:ILE:CG2	2.39	0.51
1:G:984:PRO:O	1:G:985:ARG:O	2.28	0.51
2:H:1698:PHE:O	2:H:1700:ASP:N	2.43	0.51
2:H:1715:VAL:CA	2:H:1718:THR:HG22	2.40	0.51
2:H:1986:UNK:C	2:H:1988:UNK:H	2.23	0.51
2:H:876:UNK:O	2:H:877:UNK:CB	2.59	0.51
1:A:1266:LYS:O	1:A:1267:ASP:C	2.48	0.51
1:A:1329:VAL:HG12	1:A:1385:GLN:O	2.10	0.51
1:A:1390:ALA:O	1:A:1393:ALA:HB3	2.11	0.51
1:A:1476:GLU:C	1:A:1478:PRO:HD2	2.32	0.51
1:A:1640:SER:H	1:A:1654:ILE:HG13	1.75	0.51
1:A:1646:PHE:C	1:A:1648:GLN:N	2.64	0.51
1:A:1640:SER:CB	1:A:1654:ILE:HB	2.41	0.51
2:B:1887:GLU:CD	2:B:1888:ILE:H	2.13	0.51
2:B:264:ARG:HB2	2:B:284:ALA:O	2.11	0.51
2:B:339:LEU:HB2	2:B:420:PHE:CE1	2.45	0.51
2:B:514:VAL:O	2:B:517:HIS:N	2.44	0.51
2:B:668:UNK:O	2:B:669:UNK:CB	2.58	0.51
1:D:1025:ALA:CB	1:D:1221:GLU:HB3	2.41	0.51
1:D:1080:THR:O	1:D:1082:GLU:N	2.44	0.51
1:D:1119:LYS:O	1:D:1119:LYS:HD2	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1260:MET:HB3	1:D:1261:PHE:CE2	2.46	0.51
1:D:1359:GLY:O	1:D:1360:ARG:O	2.28	0.51
1:D:1692:MET:CA	1:D:1697:LEU:HD11	2.39	0.51
1:D:398:UNK:O	1:D:400:UNK:N	2.43	0.51
1:D:944:ARG:O	1:D:948:VAL:N	2.40	0.51
2:E:1737:ILE:HG23	2:E:1755:ILE:HG21	1.92	0.51
2:E:1884:TRP:N	2:E:1892:ASN:HB2	2.22	0.51
2:E:304:PHE:O	2:E:308:VAL:HG23	2.11	0.51
2:E:41:LEU:HD13	2:E:46:GLU:HA	1.91	0.51
1:G:1009:LEU:H	1:G:1009:LEU:CD1	2.24	0.51
1:G:1100:HIS:C	1:G:1102:GLY:N	2.63	0.51
1:G:1131:LEU:CB	1:G:1133:PRO:HD3	2.31	0.51
1:G:1159:GLU:O	1:G:1166:LYS:HB3	2.10	0.51
1:G:1320:LEU:O	1:G:1321:SER:C	2.46	0.51
1:G:1456:GLU:N	1:G:1459:ILE:CG1	2.69	0.51
1:G:1539:ALA:O	1:G:1575:VAL:HG23	2.11	0.51
1:G:695:GLY:O	1:G:697:LEU:N	2.43	0.51
1:G:830:HIS:CD2	1:G:830:HIS:N	2.71	0.51
2:H:1691:TRP:CE3	2:H:1783:LEU:HD13	2.46	0.51
2:H:1742:VAL:HG21	2:H:1840:VAL:HG22	1.93	0.51
2:H:1888:ILE:O	2:H:1891:TYR:HE1	1.94	0.51
2:H:1904:LEU:O	2:H:1907:LEU:HG	2.11	0.51
2:H:261:GLY:HA2	2:H:264:ARG:CD	2.40	0.51
2:H:281:VAL:HG12	2:H:282:ALA:N	2.26	0.51
2:H:292:PHE:O	2:H:296:VAL:HG23	2.11	0.51
1:A:1100:HIS:O	1:A:1103:ILE:HB	2.11	0.51
1:A:1246:CYS:HA	1:A:1327:CYS:SG	2.51	0.51
1:A:1320:LEU:CG	1:A:1321:SER:N	2.73	0.51
1:A:1392:LEU:HD22	1:A:1392:LEU:N	2.22	0.51
1:A:1639:VAL:HG23	1:A:1640:SER:N	2.24	0.51
1:A:1681:GLU:O	1:A:1682:LYS:HB2	2.11	0.51
1:A:1692:MET:N	1:A:1697:LEU:HD11	2.25	0.51
1:A:1868:UNK:CB	1:A:1885:UNK:HA	2.40	0.51
1:A:388:UNK:O	1:A:389:UNK:C	2.59	0.51
1:A:460:UNK:O	1:A:462:UNK:N	2.44	0.51
1:A:574:UNK:O	1:A:577:UNK:N	2.44	0.51
1:A:796:LEU:HD12	1:A:800:LEU:HD21	1.93	0.51
1:A:911:PRO:O	1:A:912:GLU:CB	2.56	0.51
2:B:1738:PHE:HB2	2:B:1755:ILE:HB	1.93	0.51
2:B:1762:TYR:C	2:B:1763:THR:HG1	2.10	0.51
2:B:239:PRO:HG2	2:B:240:LEU:H	1.75	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:267:LEU:O	2:B:268:LYS:CB	2.59	0.51
2:B:309:ARG:CG	2:B:439:ILE:HG22	2.40	0.51
2:B:271:THR:HG23	2:B:460:TYR:O	2.11	0.51
2:B:753:UNK:O	2:B:754:UNK:C	2.59	0.51
1:D:1035:THR:CG2	1:D:1053:MET:SD	2.96	0.51
1:D:1085:ASP:O	1:D:1086:ASP:C	2.49	0.51
1:D:1173:LEU:O	1:D:1174:TYR:HB2	2.10	0.51
1:D:1244:GLY:O	1:D:1327:CYS:HA	2.11	0.51
1:D:1325:ARG:O	1:D:1326:ILE:HB	2.11	0.51
1:D:1021:VAL:HG11	1:D:1597:LEU:HD11	1.92	0.51
1:D:1605:ILE:CG1	1:D:1628:SER:HB3	2.41	0.51
1:D:381:UNK:O	1:D:382:UNK:C	2.57	0.51
1:D:520:UNK:C	1:D:522:UNK:H2	2.22	0.51
2:E:1295:UNK:O	2:E:1299:UNK:N	2.44	0.51
2:E:1715:VAL:CA	2:E:1718:THR:HG22	2.41	0.51
2:E:1739:GLU:O	2:E:1741:ILE:HG13	2.11	0.51
2:E:1874:VAL:HG12	2:E:1878:VAL:CG2	2.41	0.51
2:E:2047:UNK:O	2:E:2049:UNK:N	2.42	0.51
2:E:321:PRO:C	2:E:323:ILE:N	2.64	0.51
1:G:1085:ASP:O	1:G:1086:ASP:C	2.49	0.51
1:G:1186:ALA:HB1	1:G:1349:THR:HG21	1.93	0.51
1:G:1264:ARG:O	1:G:1265:PHE:C	2.50	0.51
1:G:1448:ARG:O	1:G:1451:GLN:HB3	2.11	0.51
1:G:1868:UNK:CB	1:G:1885:UNK:HA	2.41	0.51
1:G:278:UNK:O	1:G:279:UNK:CB	2.59	0.51
1:G:304:UNK:O	1:G:305:UNK:CB	2.58	0.51
1:G:780:GLU:O	1:G:781:LEU:C	2.50	0.51
1:G:910:THR:HG23	1:G:913:VAL:HG23	1.93	0.51
2:H:1764:PHE:O	2:H:1765:ARG:CB	2.59	0.51
2:H:813:UNK:C	2:H:815:UNK:N	2.74	0.51
2:H:875:UNK:O	2:H:876:UNK:CB	2.59	0.51
2:H:91:PHE:CE2	2:H:101:ILE:HD11	2.45	0.51
1:A:1085:ASP:O	1:A:1086:ASP:C	2.50	0.51
1:A:1112:ASN:ND2	1:A:1119:LYS:HA	2.26	0.51
1:A:1329:VAL:CG1	1:A:1330:GLY:N	2.65	0.51
1:A:1449:LYS:O	1:A:1453:VAL:HG23	2.11	0.51
1:A:398:UNK:O	1:A:400:UNK:N	2.44	0.51
1:A:742:LYS:O	1:A:744:ASP:N	2.43	0.51
2:B:1149:UNK:C	2:B:1151:UNK:N	2.74	0.51
2:B:587:UNK:O	2:B:784:UNK:CB	2.58	0.51
2:B:895:UNK:O	2:B:898:UNK:N	2.43	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1223:PHE:CD2	1:D:1386:ILE:HD13	2.45	0.51
1:D:1448:ARG:O	1:D:1451:GLN:HB3	2.11	0.51
1:D:695:GLY:O	1:D:697:LEU:N	2.44	0.51
1:D:719:GLN:CG	1:D:720:SER:N	2.70	0.51
1:D:791:ALA:HA	1:D:794:ILE:CG2	2.37	0.51
1:D:810:LYS:O	1:D:812:ALA:N	2.44	0.51
2:E:1051:UNK:O	2:E:1053:UNK:N	2.44	0.51
2:E:1706:ILE:HD13	2:E:1783:LEU:HD12	1.92	0.51
2:E:1738:PHE:HB2	2:E:1755:ILE:HB	1.93	0.51
2:E:1853:GLY:O	2:E:1854:MET:HB3	2.11	0.51
2:E:213:LEU:HD11	2:E:215:ILE:HD11	1.92	0.51
2:E:244:ILE:HG22	2:E:248:HIS:CD2	2.46	0.51
2:E:390:ASN:C	2:E:393:LEU:HB3	2.31	0.51
1:G:1142:GLU:H	1:G:1144:PHE:HE1	1.59	0.51
1:G:1146:HIS:O	1:G:1147:GLN:C	2.50	0.51
1:G:1197:THR:CA	1:G:1200:ILE:HG22	2.40	0.51
1:G:1569:GLY:C	1:G:1571:PRO:HD3	2.31	0.51
1:G:1717:ASP:C	1:G:1719:LEU:H	2.14	0.51
1:G:529:UNK:HA	1:G:532:UNK:CB	2.41	0.51
1:G:791:ALA:O	1:G:794:ILE:N	2.44	0.51
1:G:901:MET:CE	1:G:905:LEU:CD2	2.89	0.51
1:G:952:GLU:O	1:G:956:ALA:HB2	2.11	0.51
2:H:1137:UNK:O	2:H:1139:UNK:N	2.44	0.51
2:H:1740:THR:C	2:H:1741:ILE:HG13	2.29	0.51
2:H:192:ALA:O	2:H:193:GLU:C	2.49	0.51
1:A:1130:ASP:HB2	1:A:1174:TYR:N	2.21	0.50
1:A:1187:GLY:C	1:A:1188:GLN:CD	2.69	0.50
1:A:1197:THR:OG1	1:A:1200:ILE:HG22	2.11	0.50
1:A:1280:ILE:CD1	1:A:1280:ILE:N	2.58	0.50
1:A:1453:VAL:O	1:A:1457:ALA:HB2	2.11	0.50
1:A:1519:ILE:HD13	1:A:1519:ILE:C	2.31	0.50
1:A:1605:ILE:CG1	1:A:1606:PRO:HA	2.40	0.50
1:A:1610:ASN:O	1:A:1611:ALA:O	2.29	0.50
1:A:1625:LEU:HD11	1:A:1626:TYR:HD1	1.76	0.50
1:A:1729:GLY:O	1:A:1730:SER:HB3	2.10	0.50
1:A:700:GLY:CA	1:A:727:ALA:HB3	2.38	0.50
1:A:737:PHE:HE1	1:A:745:VAL:HA	1.76	0.50
1:A:904:ASN:N	1:A:904:ASN:ND2	2.58	0.50
1:A:944:ARG:O	1:A:948:VAL:N	2.39	0.50
2:B:1211:UNK:O	2:B:1212:UNK:CB	2.59	0.50
2:B:159:ILE:HG22	2:B:160:PHE:N	2.26	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1871:LEU:C	2:B:1871:LEU:HD23	2.31	0.50
2:B:429:SER:HB2	2:B:431:LEU:HD23	1.92	0.50
2:B:4:TYR:HD1	2:B:5:SER:H	1.59	0.50
2:B:753:UNK:O	2:B:754:UNK:O	2.29	0.50
1:D:1041:ALA:HB1	1:D:1042:PHE:CD1	2.46	0.50
1:D:1045:PHE:O	1:D:1046:SER:O	2.29	0.50
1:D:1156:GLU:HG2	1:D:1169:LYS:HA	1.92	0.50
1:D:1240:VAL:HG13	1:D:1242:GLU:HB2	1.93	0.50
1:D:1596:ALA:O	1:D:1597:LEU:C	2.47	0.50
1:D:1604:ILE:CG2	1:D:1605:ILE:H	2.04	0.50
1:D:1640:SER:H	1:D:1654:ILE:HG13	1.74	0.50
1:D:1639:VAL:HG21	1:D:1655:VAL:HG12	1.92	0.50
1:D:1692:MET:N	1:D:1697:LEU:HD11	2.26	0.50
1:D:565:UNK:C	1:D:567:UNK:N	2.72	0.50
1:D:625:UNK:O	1:D:626:UNK:C	2.59	0.50
1:D:691:GLU:OE2	1:D:900:GLU:HG2	2.11	0.50
1:D:680:ILE:HD11	1:D:703:VAL:CG1	2.41	0.50
1:D:829:ASN:HB3	1:D:832:THR:HG21	1.93	0.50
2:E:1557:UNK:O	2:E:1558:UNK:C	2.59	0.50
2:E:1573:UNK:C	2:E:1575:UNK:N	2.72	0.50
2:E:173:LEU:O	2:E:176:LEU:HB3	2.11	0.50
2:E:1883:GLY:HA2	2:E:1894:GLU:HG2	1.92	0.50
2:E:1931:LEU:HA	2:E:1934:GLU:HB3	1.91	0.50
2:E:261:GLY:HA2	2:E:264:ARG:CD	2.40	0.50
1:G:1035:THR:CG2	1:G:1053:MET:SD	2.97	0.50
1:G:1119:LYS:HE3	1:G:1121:MET:CG	2.40	0.50
1:G:1240:VAL:CG1	1:G:1242:GLU:HB3	2.41	0.50
1:G:1248:GLY:HA2	1:G:1330:GLY:HA3	1.92	0.50
1:G:1329:VAL:HG12	1:G:1385:GLN:O	2.11	0.50
1:G:1519:ILE:HD13	1:G:1519:ILE:C	2.31	0.50
1:G:1610:ASN:O	1:G:1611:ALA:O	2.28	0.50
1:G:742:LYS:HB2	1:G:746:GLU:HG3	1.93	0.50
1:G:691:GLU:OE2	1:G:900:GLU:HG2	2.11	0.50
2:H:1738:PHE:HB2	2:H:1755:ILE:CG2	2.42	0.50
2:H:1924:ILE:C	2:H:1926:GLU:N	2.64	0.50
2:H:240:LEU:O	2:H:243:VAL:HB	2.12	0.50
2:H:404:GLN:HA	2:H:408:PRO:HB3	1.91	0.50
2:H:703:UNK:O	2:H:707:UNK:N	2.44	0.50
1:A:1371:THR:O	1:A:1373:ARG:HG3	2.12	0.50
1:A:1738:ILE:O	1:A:1739:GLN:CB	2.59	0.50
1:A:381:UNK:O	1:A:382:UNK:C	2.58	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:580:UNK:O	1:A:581:UNK:C	2.59	0.50
1:A:644:UNK:C	1:A:646:UNK:N	2.67	0.50
1:A:901:MET:O	1:A:901:MET:HG2	2.09	0.50
2:B:1207:UNK:O	2:B:1208:UNK:CB	2.59	0.50
2:B:1742:VAL:HG21	2:B:1840:VAL:HG22	1.92	0.50
2:B:321:PRO:O	2:B:323:ILE:N	2.44	0.50
2:B:646:UNK:O	2:B:648:UNK:N	2.44	0.50
1:D:1112:ASN:C	1:D:1114:TYR:N	2.55	0.50
1:D:1055:TRP:HH2	1:D:1198:TYR:HD1	1.56	0.50
1:D:1264:ARG:O	1:D:1265:PHE:C	2.49	0.50
1:D:1306:ALA:HB2	1:D:1645:GLY:N	2.26	0.50
1:D:1327:CYS:HB3	1:D:1387:ILE:HD11	1.92	0.50
1:D:1562:LYS:CE	1:D:1621:PHE:HZ	2.24	0.50
1:D:1665:ILE:HG22	1:D:1666:THR:N	2.26	0.50
1:D:1741:LYS:CE	1:D:1741:LYS:HA	2.42	0.50
1:D:601:UNK:CB	1:D:605:UNK:CB	2.89	0.50
1:D:890:LYS:C	1:D:892:GLY:H	2.14	0.50
1:D:910:THR:HG23	1:D:913:VAL:HG23	1.93	0.50
2:E:13:HIS:C	2:E:15:SER:N	2.65	0.50
2:E:1737:ILE:O	2:E:1738:PHE:CB	2.59	0.50
2:E:184:VAL:HG22	2:E:184:VAL:O	2.11	0.50
2:E:1871:LEU:C	2:E:1871:LEU:HD23	2.31	0.50
2:E:1924:ILE:C	2:E:1926:GLU:N	2.65	0.50
2:E:192:ALA:O	2:E:193:GLU:C	2.49	0.50
2:E:267:LEU:O	2:E:268:LYS:CB	2.59	0.50
2:E:292:PHE:O	2:E:296:VAL:HG23	2.11	0.50
2:E:375:LYS:CG	2:E:376:ASN:H	2.24	0.50
2:E:390:ASN:HA	2:E:393:LEU:CB	2.37	0.50
2:E:753:UNK:O	2:E:754:UNK:O	2.30	0.50
1:G:1067:LEU:HD11	1:G:1073:THR:OG1	2.11	0.50
1:G:1580:LEU:O	1:G:1581:THR:OG1	2.29	0.50
1:G:1637:ARG:O	1:G:1657:HIS:N	2.39	0.50
1:G:690:ALA:O	1:G:694:GLN:HG3	2.11	0.50
2:H:1707:LEU:O	2:H:1708:ASP:C	2.49	0.50
2:H:390:ASN:C	2:H:393:LEU:HB3	2.32	0.50
2:H:723:UNK:O	2:H:725:UNK:N	2.44	0.50
1:A:1029:PRO:CG	1:A:1581:THR:HG23	2.40	0.50
1:A:1046:SER:O	1:A:1047:LEU:C	2.50	0.50
1:A:791:ALA:O	1:A:794:ILE:N	2.45	0.50
1:A:829:ASN:HB3	1:A:832:THR:CB	2.42	0.50
1:A:882:ASN:C	1:A:883:ILE:HG13	2.31	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:905:LEU:O	1:A:908:LEU:HB3	2.12	0.50
1:A:984:PRO:O	1:A:985:ARG:O	2.29	0.50
2:B:199:ILE:HG12	2:B:200:ARG:N	2.26	0.50
2:B:273:HIS:O	2:B:276:GLY:N	2.43	0.50
2:B:528:ILE:CG2	2:B:529:VAL:N	2.74	0.50
1:D:1207:GLN:NE2	1:D:1207:GLN:CA	2.75	0.50
1:D:1274:ILE:O	1:D:1276:GLN:N	2.44	0.50
1:D:446:UNK:CB	1:D:1619:GLU:OE2	2.59	0.50
1:D:693:LEU:HG	1:D:697:LEU:HD12	1.92	0.50
1:D:791:ALA:O	1:D:794:ILE:N	2.43	0.50
1:D:832:THR:O	1:D:833:PHE:O	2.27	0.50
2:E:807:UNK:N	2:E:1034:UNK:CB	2.74	0.50
2:E:14:GLY:HA3	2:E:18:HIS:HB2	1.93	0.50
2:E:261:GLY:HA2	2:E:264:ARG:NE	2.27	0.50
2:E:375:LYS:O	2:E:377:LEU:HD12	2.12	0.50
2:E:489:LYS:O	2:E:491:GLU:N	2.44	0.50
2:E:895:UNK:O	2:E:898:UNK:N	2.44	0.50
1:G:1292:ILE:HG13	1:G:1294:SER:HB2	1.93	0.50
1:G:1532:THR:OG1	1:G:1535:ASP:HB3	2.11	0.50
1:G:1541:PHE:CE2	1:G:1554:SER:OG	2.64	0.50
1:G:1561:MET:HA	1:G:1561:MET:CE	2.41	0.50
1:G:1639:VAL:HG23	1:G:1655:VAL:H	1.76	0.50
1:G:679:LEU:CD1	1:G:679:LEU:O	2.59	0.50
1:G:808:LYS:O	1:G:812:ALA:N	2.38	0.50
1:G:895:THR:OG1	1:G:928:GLY:HA3	2.11	0.50
2:H:1379:UNK:CA	2:H:1426:UNK:HA	2.37	0.50
2:H:1557:UNK:O	2:H:1558:UNK:C	2.60	0.50
2:H:1827:LEU:O	2:H:1830:VAL:HG12	2.11	0.50
2:H:27:PHE:O	2:H:30:ALA:HB3	2.12	0.50
2:H:393:LEU:HD21	2:H:418:ASN:HB3	1.93	0.50
2:H:423:VAL:HG12	2:H:425:SER:O	2.12	0.50
2:H:522:GLY:HA2	2:H:555:UNK:O	2.11	0.50
1:A:1036:ARG:NH2	1:A:1040:GLU:OE1	2.43	0.50
1:A:1079:LYS:O	1:A:1083:PRO:HD2	2.11	0.50
1:A:1258:ARG:NH1	1:A:1263:ASP:OD2	2.41	0.50
1:A:1274:ILE:O	1:A:1276:GLN:N	2.44	0.50
1:A:1450:ARG:HG3	1:A:1450:ARG:NH1	2.25	0.50
1:A:1456:GLU:N	1:A:1459:ILE:CG1	2.68	0.50
1:A:1646:PHE:C	1:A:1648:GLN:H	2.13	0.50
1:A:1403:ILE:CG2	1:A:1656:VAL:O	2.60	0.50
1:A:929:GLY:C	1:A:931:GLN:N	2.65	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1551:UNK:O	2:B:1552:UNK:C	2.58	0.50
2:B:1853:GLY:O	2:B:1854:MET:HB3	2.12	0.50
2:B:1989:UNK:C	2:B:1991:UNK:N	2.75	0.50
2:B:653:UNK:O	2:B:654:UNK:C	2.60	0.50
1:D:1130:ASP:HB2	1:D:1174:TYR:N	2.24	0.50
1:D:1291:LEU:CD1	1:D:1291:LEU:N	2.75	0.50
1:D:1189:ILE:HG23	1:D:1377:MET:CE	2.41	0.50
1:D:1379:ALA:O	1:D:1380:GLN:O	2.29	0.50
1:D:1450:ARG:HG3	1:D:1450:ARG:NH1	2.26	0.50
1:D:1459:ILE:CG1	1:D:1460:LYS:N	2.74	0.50
1:D:1522:LEU:HB3	1:D:1526:LEU:HD23	1.92	0.50
1:D:1641:ILE:O	1:D:1642:THR:CB	2.60	0.50
1:D:1738:ILE:O	1:D:1739:GLN:CB	2.59	0.50
1:D:655:UNK:O	1:D:657:UNK:N	2.45	0.50
1:D:700:GLY:CA	1:D:727:ALA:HB3	2.36	0.50
1:D:782:GLU:O	1:D:784:ILE:HG22	2.11	0.50
1:D:911:PRO:O	1:D:912:GLU:CB	2.59	0.50
1:D:990:LEU:O	1:D:991:ASP:OD1	2.30	0.50
2:E:1058:UNK:O	2:E:1059:UNK:C	2.60	0.50
2:E:1707:LEU:O	2:E:1708:ASP:C	2.50	0.50
2:E:1715:VAL:CG2	2:E:1716:ASN:N	2.63	0.50
2:E:249:TYR:CE2	2:E:283:ILE:HG23	2.47	0.50
2:E:370:LEU:HB3	2:E:372:ASN:OD1	2.11	0.50
2:E:735:UNK:C	2:E:737:UNK:N	2.71	0.50
2:E:928:UNK:O	2:E:929:UNK:C	2.59	0.50
1:G:1045:PHE:O	1:G:1046:SER:O	2.30	0.50
1:G:1079:LYS:O	1:G:1083:PRO:HD2	2.11	0.50
1:G:1097:ILE:O	1:G:1098:LEU:HD13	2.11	0.50
1:G:1151:LYS:O	1:G:1152:VAL:C	2.50	0.50
1:G:1156:GLU:CG	1:G:1169:LYS:HA	2.41	0.50
1:G:1153:ASP:CG	1:G:1157:ILE:HG23	2.31	0.50
1:G:1241:SER:C	1:G:1243:VAL:N	2.65	0.50
1:G:1320:LEU:CG	1:G:1321:SER:N	2.74	0.50
1:G:1476:GLU:O	1:G:1476:GLU:HG3	2.12	0.50
1:G:1582:GLY:O	1:G:1583:HIS:C	2.50	0.50
1:G:1605:ILE:N	1:G:1605:ILE:HD13	2.26	0.50
1:G:1626:TYR:HB2	1:G:1627:PRO:HD2	1.94	0.50
1:G:1636:VAL:HG13	1:G:1657:HIS:CD2	2.46	0.50
1:G:574:UNK:O	1:G:577:UNK:N	2.45	0.50
2:H:1014:UNK:O	2:H:1016:UNK:N	2.44	0.50
2:H:13:HIS:C	2:H:15:SER:N	2.65	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:1644:UNK:C	2:H:1646:UNK:N	2.70	0.50
2:H:1773:ALA:C	2:H:1775:GLN:H	2.13	0.50
2:H:1786:LYS:O	2:H:1787:ALA:C	2.50	0.50
2:H:1989:UNK:C	2:H:1991:UNK:N	2.74	0.50
2:H:368:ILE:HG23	2:H:368:ILE:O	2.11	0.50
2:H:585:UNK:O	2:H:586:UNK:CB	2.59	0.50
3:I:59:UNK:O	3:I:60:UNK:C	2.59	0.50
1:A:1000:GLN:C	1:A:1002:LYS:H	2.15	0.50
1:A:1207:GLN:CA	1:A:1207:GLN:NE2	2.74	0.50
1:A:1240:VAL:CG1	1:A:1242:GLU:HB3	2.40	0.50
1:A:1554:SER:CB	1:A:1623:TYR:OH	2.59	0.50
2:B:1061:UNK:C	2:B:1063:UNK:N	2.72	0.50
2:B:1672:GLN:HB3	2:B:1781:LEU:HD11	1.92	0.50
2:B:1737:ILE:O	2:B:1738:PHE:CB	2.59	0.50
2:B:173:LEU:O	2:B:176:LEU:HB3	2.12	0.50
2:B:1830:VAL:HG13	2:B:1831:VAL:H	1.77	0.50
2:B:1904:LEU:O	2:B:1907:LEU:HG	2.11	0.50
2:B:230:TYR:C	2:B:232:LEU:N	2.65	0.50
2:B:241:ILE:HA	2:B:244:ILE:CD1	2.42	0.50
1:D:1083:PRO:HG2	1:D:1084:VAL:N	2.26	0.50
1:D:1148:HIS:C	1:D:1150:ASP:N	2.64	0.50
1:D:1193:TRP:O	1:D:1194:ASN:CB	2.59	0.50
1:D:1241:SER:HB3	1:D:1295:SER:H	1.77	0.50
1:D:1342:GLU:O	1:D:1346:MET:HB2	2.11	0.50
1:D:1426:LEU:HD12	1:D:1427:THR:CG2	2.40	0.50
1:D:1491:ARG:C	1:D:1493:ILE:N	2.64	0.50
1:D:1872:UNK:HA	1:D:1881:UNK:CB	2.42	0.50
1:D:703:VAL:HG13	1:D:704:VAL:N	2.27	0.50
1:D:905:LEU:O	1:D:908:LEU:HB3	2.11	0.50
2:E:99:ASN:O	2:E:100:ASP:HB3	2.11	0.50
2:E:1614:UNK:CB	2:E:1650:UNK:HA	2.41	0.50
2:E:184:VAL:HG21	2:E:247:ALA:HB1	1.92	0.50
2:E:480:VAL:HG13	2:E:484:ILE:HD11	1.92	0.50
2:E:876:UNK:O	2:E:877:UNK:CB	2.60	0.50
2:E:895:UNK:O	2:E:896:UNK:C	2.59	0.50
1:G:1151:LYS:H	1:G:1151:LYS:CD	2.25	0.50
1:G:1156:GLU:HG2	1:G:1169:LYS:C	2.31	0.50
1:G:1193:TRP:O	1:G:1194:ASN:CB	2.57	0.50
1:G:1246:CYS:HA	1:G:1327:CYS:SG	2.52	0.50
1:G:1534:ASP:C	1:G:1566:ARG:HH21	2.14	0.50
1:G:1378:GLU:HA	1:G:1583:HIS:HA	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1474:ALA:HB1	1:G:1761:UNK:CB	2.41	0.50
1:G:677:TYR:HA	1:G:702:LYS:O	2.10	0.50
1:G:755:THR:HG22	1:G:756:GLU:N	2.25	0.50
1:G:901:MET:O	1:G:904:ASN:N	2.35	0.50
1:G:990:LEU:O	1:G:991:ASP:OD1	2.28	0.50
2:H:1681:TYR:C	2:H:1681:TYR:CD2	2.85	0.50
2:H:1850:SER:C	2:H:1852:TYR:H	2.14	0.50
2:H:193:GLU:O	2:H:196:SER:HB3	2.12	0.50
2:H:928:UNK:O	2:H:929:UNK:C	2.59	0.50
1:A:1030:TRP:HB2	1:A:1036:ARG:HB3	1.92	0.50
1:A:1040:GLU:O	1:A:1040:GLU:HG3	2.11	0.50
1:A:1076:VAL:HG21	1:A:1087:LYS:CA	2.41	0.50
1:A:1089:VAL:C	1:A:1091:ALA:N	2.65	0.50
1:A:1119:LYS:CE	1:A:1121:MET:HB2	2.37	0.50
1:A:1131:LEU:C	1:A:1133:PRO:HD3	2.31	0.50
1:A:1253:GLY:O	1:A:1254:VAL:C	2.49	0.50
1:A:1426:LEU:CD1	1:A:1427:THR:HG23	2.39	0.50
1:A:1518:ARG:O	1:A:1519:ILE:HB	2.11	0.50
1:A:1741:LYS:HA	1:A:1741:LYS:CE	2.41	0.50
1:A:653:UNK:O	1:A:654:UNK:C	2.60	0.50
1:A:910:THR:HG22	1:A:913:VAL:HG21	1.93	0.50
2:B:1058:UNK:O	2:B:1059:UNK:C	2.59	0.50
2:B:1738:PHE:HB2	2:B:1755:ILE:CG2	2.41	0.50
2:B:1764:PHE:O	2:B:1765:ARG:CB	2.59	0.50
2:B:1792:LEU:CA	2:B:1797:LEU:HD12	2.41	0.50
2:B:1850:SER:C	2:B:1852:TYR:H	2.14	0.50
2:B:184:VAL:HG21	2:B:247:ALA:HB1	1.93	0.50
2:B:585:UNK:O	2:B:586:UNK:CB	2.59	0.50
2:B:720:UNK:C	2:B:722:UNK:N	2.74	0.50
1:D:1080:THR:HB	1:D:1081:LYS:HE2	1.93	0.50
1:D:1109:GLU:O	1:D:1110:LEU:CB	2.59	0.50
1:D:1241:SER:O	1:D:1243:VAL:N	2.39	0.50
1:D:1274:ILE:CG2	1:D:1275:LEU:N	2.74	0.50
1:D:1474:ALA:HB1	1:D:1761:UNK:CB	2.42	0.50
1:D:580:UNK:O	1:D:581:UNK:C	2.59	0.50
1:D:684:GLY:HA3	1:D:718:TYR:OH	2.12	0.50
2:E:1729:ILE:CG2	2:E:1730:ARG:H	2.13	0.50
2:E:1819:ALA:O	2:E:1820:ASP:O	2.30	0.50
2:E:187:LEU:HD22	2:E:296:VAL:HG11	1.92	0.50
2:E:339:LEU:HB2	2:E:420:PHE:CE1	2.46	0.50
2:E:822:UNK:O	2:E:823:UNK:CB	2.59	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1528:THR:O	1:G:1530:GLY:N	2.45	0.50
1:G:1534:ASP:O	1:G:1566:ARG:NE	2.38	0.50
1:G:1571:PRO:O	1:G:1572:VAL:C	2.49	0.50
1:G:1639:VAL:HG23	1:G:1640:SER:N	2.21	0.50
1:G:653:UNK:O	1:G:654:UNK:C	2.60	0.50
1:G:745:VAL:O	1:G:747:ALA:N	2.44	0.50
1:G:821:GLN:HA	1:G:863:THR:HB	1.94	0.50
1:G:904:ASN:HB3	1:G:926:LEU:HD13	1.93	0.50
2:H:132:MET:O	2:H:133:ALA:CB	2.60	0.50
2:H:1867:SER:C	2:H:1869:GLU:N	2.64	0.50
2:H:1903:ASP:O	2:H:1906:ALA:N	2.44	0.50
2:H:924:UNK:O	2:H:925:UNK:C	2.60	0.50
1:A:1036:ARG:HE	1:A:1037:TRP:CA	2.24	0.50
1:A:1060:ILE:HD13	1:A:1077:ASP:OD1	2.11	0.50
1:A:1142:GLU:H	1:A:1144:PHE:HE1	1.60	0.50
1:A:1169:LYS:NZ	1:A:1170:GLY:O	2.34	0.50
1:A:1539:ALA:O	1:A:1575:VAL:HG23	2.11	0.50
1:A:1652:GLN:CD	1:A:1653:ALA:N	2.65	0.50
1:A:681:THR:HA	1:A:706:THR:HG21	1.93	0.50
2:B:1047:UNK:C	2:B:1049:UNK:N	2.71	0.50
2:B:2020:UNK:O	2:B:2021:UNK:C	2.59	0.50
2:B:875:UNK:O	2:B:876:UNK:CB	2.60	0.50
1:D:1030:TRP:CE2	1:D:1580:LEU:HD11	2.45	0.50
1:D:1100:HIS:O	1:D:1103:ILE:N	2.42	0.50
1:D:1142:GLU:H	1:D:1144:PHE:HE1	1.58	0.50
1:D:1146:HIS:O	1:D:1147:GLN:C	2.49	0.50
1:D:1476:GLU:HG3	1:D:1476:GLU:O	2.11	0.50
1:D:1657:HIS:NE2	1:D:1659:ASP:OD2	2.43	0.50
1:D:1002:LYS:HD2	1:D:1670:TYR:CE1	2.47	0.50
1:D:572:UNK:C	1:D:574:UNK:N	2.70	0.50
2:E:1490:UNK:O	2:E:1491:UNK:CB	2.58	0.50
2:E:199:ILE:HG12	2:E:200:ARG:N	2.26	0.50
2:E:240:LEU:H	2:E:240:LEU:CD1	2.24	0.50
2:E:264:ARG:HD2	2:E:456:GLN:HG3	1.94	0.50
2:E:4:TYR:O	2:E:5:SER:CB	2.60	0.50
2:E:813:UNK:C	2:E:815:UNK:N	2.74	0.50
1:G:1041:ALA:HB1	1:G:1042:PHE:CD1	2.46	0.50
1:G:1207:GLN:CA	1:G:1207:GLN:NE2	2.75	0.50
1:G:1239:HIS:O	1:G:1241:SER:N	2.41	0.50
1:G:1403:ILE:HG23	1:G:1656:VAL:CG1	2.27	0.50
1:G:1418:VAL:HA	1:G:1419:PRO:C	2.29	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1455:ARG:NH2	1:G:1458:GLN:HB2	2.23	0.50
1:G:1476:GLU:C	1:G:1478:PRO:HD2	2.32	0.50
1:G:1539:ALA:CB	1:G:1640:SER:O	2.60	0.50
1:G:281:UNK:C	1:G:283:UNK:N	2.71	0.50
1:G:580:UNK:O	1:G:582:UNK:N	2.45	0.50
1:G:829:ASN:HB3	1:G:832:THR:CB	2.42	0.50
2:H:1041:UNK:O	2:H:1042:UNK:C	2.59	0.50
2:H:1415:UNK:O	2:H:1416:UNK:CB	2.59	0.50
2:H:1706:ILE:O	2:H:1707:LEU:C	2.49	0.50
2:H:321:PRO:O	2:H:323:ILE:N	2.45	0.50
1:A:1065:GLY:C	1:A:1067:LEU:N	2.63	0.50
1:A:1216:LEU:HD13	1:A:1698:PHE:CE1	2.47	0.50
1:A:1320:LEU:O	1:A:1321:SER:C	2.49	0.50
1:A:377:UNK:O	1:A:380:UNK:CB	2.60	0.50
1:A:426:UNK:O	1:A:430:UNK:CB	2.60	0.50
1:A:527:UNK:C	1:A:529:UNK:N	2.75	0.50
1:A:749:ILE:HD11	1:A:802:MET:HE2	1.93	0.50
1:A:864:VAL:CG1	1:A:865:CYS:H	2.25	0.50
2:B:1342:UNK:C	2:B:1344:UNK:N	2.74	0.50
2:B:13:His:C	2:B:15:SER:N	2.64	0.50
2:B:149:VAL:HG21	2:B:156:LEU:HB2	1.94	0.50
2:B:408:PRO:HG2	2:B:409:PHE:N	2.25	0.50
2:B:460:TYR:CD2	2:B:465:GLY:HA3	2.47	0.50
2:B:540:ASP:HB2	2:B:544:LYS:HZ2	1.77	0.50
3:C:24:UNK:C	3:C:26:UNK:N	2.74	0.50
1:D:1055:TRP:CH2	1:D:1198:TYR:CD1	2.97	0.50
1:D:1118:LYS:O	1:D:1118:LYS:HG3	2.12	0.50
1:D:1152:VAL:C	1:D:1154:ILE:N	2.60	0.50
1:D:1197:THR:HG23	1:D:1197:THR:O	2.11	0.50
1:D:1204:ILE:O	1:D:1208:VAL:HG22	2.12	0.50
1:D:1223:PHE:CE1	1:D:1231:PRO:HB3	2.47	0.50
1:D:1455:ARG:CG	1:D:1504:ALA:HB2	2.39	0.50
1:D:1652:GLN:CD	1:D:1653:ALA:H	2.15	0.50
1:D:780:GLU:O	1:D:781:LEU:C	2.50	0.50
1:D:893:VAL:O	1:D:895:THR:N	2.36	0.50
1:D:869:ILE:CG2	1:D:926:LEU:HB2	2.37	0.50
2:E:1379:UNK:CA	2:E:1426:UNK:HA	2.39	0.50
2:E:1742:VAL:HG21	2:E:1840:VAL:HG22	1.94	0.50
2:E:1989:UNK:C	2:E:1991:UNK:N	2.74	0.50
2:E:197:GLU:C	2:E:199:ILE:N	2.64	0.50
1:G:1275:LEU:C	1:G:1275:LEU:HD13	2.32	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1302:VAL:O	1:G:1307:THR:CB	2.57	0.50
1:G:1638:ALA:O	1:G:1639:VAL:HG13	2.12	0.50
1:G:1735:SER:C	1:G:1737:ASN:H	2.13	0.50
1:G:389:UNK:C	1:G:391:UNK:N	2.74	0.50
1:G:647:UNK:O	1:G:648:UNK:O	2.30	0.50
1:G:905:LEU:O	1:G:908:LEU:HB3	2.11	0.50
2:H:1058:UNK:O	2:H:1059:UNK:C	2.59	0.50
2:H:1416:UNK:HA	2:H:1419:UNK:CB	2.42	0.50
2:H:1542:UNK:O	2:H:1543:UNK:CB	2.59	0.50
2:H:1819:ALA:O	2:H:1820:ASP:O	2.29	0.50
2:H:1830:VAL:HG13	2:H:1831:VAL:H	1.76	0.50
2:H:1924:ILE:HG22	2:H:1925:ILE:N	2.25	0.50
2:H:267:LEU:O	2:H:268:LYS:CB	2.60	0.50
2:H:41:LEU:HD13	2:H:46:GLU:HA	1.94	0.50
2:H:578:UNK:O	2:H:580:UNK:N	2.45	0.50
2:H:668:UNK:O	2:H:669:UNK:CB	2.59	0.50
1:A:1139:GLU:HG2	1:A:1140:THR:H	1.76	0.50
1:A:1219:VAL:HG23	1:A:1328:ILE:CD1	2.42	0.50
1:A:1291:LEU:N	1:A:1291:LEU:CD1	2.75	0.50
1:A:1474:ALA:HB1	1:A:1761:UNK:CB	2.42	0.50
1:A:854:HIS:O	1:A:855:SER:CB	2.59	0.50
2:B:1295:UNK:O	2:B:1299:UNK:N	2.45	0.50
2:B:1378:UNK:O	2:B:1379:UNK:CB	2.60	0.50
2:B:173:LEU:HD23	2:B:173:LEU:C	2.32	0.50
2:B:1770:LEU:O	2:B:1772:SER:N	2.37	0.50
2:B:182:VAL:HG12	2:B:183:LEU:HD23	1.93	0.50
2:B:338:MET:N	2:B:386:LEU:CD1	2.75	0.50
2:B:367:GLU:OE1	2:B:428:HIS:O	2.30	0.50
2:B:475:ILE:C	2:B:477:GLU:H	2.15	0.50
2:B:67:TYR:O	2:B:69:SER:N	2.45	0.50
2:B:919:UNK:O	2:B:922:UNK:N	2.45	0.50
2:B:974:UNK:C	2:B:976:UNK:N	2.75	0.50
1:D:1403:ILE:O	1:D:1655:VAL:HG22	2.11	0.50
1:D:1495:ASN:O	1:D:1496:GLU:C	2.50	0.50
2:E:1137:UNK:O	2:E:1139:UNK:N	2.45	0.50
2:E:49:ALA:H	2:E:118:LYS:HZ1	1.58	0.50
2:E:1924:ILE:HG22	2:E:1925:ILE:N	2.22	0.50
2:E:217:GLU:O	2:E:219:LEU:N	2.45	0.50
2:E:91:PHE:CE2	2:E:101:ILE:HD11	2.46	0.50
1:G:1100:HIS:O	1:G:1103:ILE:HB	2.11	0.50
1:G:1130:ASP:HB2	1:G:1174:TYR:N	2.21	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1146:HIS:C	1:G:1148:HIS:N	2.63	0.50
1:G:1308:SER:HB2	1:G:1590:ALA:CB	2.41	0.50
1:G:1189:ILE:HG23	1:G:1377:MET:CE	2.42	0.50
1:G:1519:ILE:HG12	1:G:1521:PRO:HD2	1.93	0.50
1:G:1615:ASP:OD1	1:G:1615:ASP:C	2.51	0.50
1:G:1640:SER:H	1:G:1654:ILE:HG13	1.76	0.50
1:G:1741:LYS:HZ1	1:G:1744:TYR:HD2	1.60	0.50
1:G:398:UNK:O	1:G:400:UNK:N	2.45	0.50
1:G:565:UNK:C	1:G:567:UNK:N	2.74	0.50
1:G:684:GLY:HA3	1:G:718:TYR:OH	2.12	0.50
1:G:804:GLY:O	1:G:807:LYS:HB3	2.11	0.50
1:G:809:GLN:O	1:G:812:ALA:HB3	2.12	0.50
1:G:910:THR:HG22	1:G:913:VAL:HG21	1.93	0.50
1:G:953:VAL:O	1:G:956:ALA:HB3	2.12	0.50
2:H:131:ILE:HG12	2:H:131:ILE:O	2.11	0.50
2:H:159:ILE:HG22	2:H:160:PHE:N	2.27	0.50
2:H:1709:ILE:HG22	2:H:1771:LEU:CD1	2.38	0.50
2:H:1737:ILE:HG23	2:H:1755:ILE:HG21	1.92	0.50
2:H:1782:THR:HG21	2:H:1831:VAL:HG21	1.94	0.50
2:H:261:GLY:HA2	2:H:264:ARG:NE	2.27	0.50
2:H:504:PHE:CD2	2:H:504:PHE:N	2.79	0.50
1:A:1074:GLY:C	1:A:1075:TRP:CD1	2.85	0.49
1:A:1264:ARG:NH2	1:A:1270:VAL:HB	2.27	0.49
1:A:1292:ILE:HG13	1:A:1294:SER:HB2	1.94	0.49
1:A:1335:PHE:HE1	1:A:1340:SER:CB	2.08	0.49
1:A:1497:ALA:O	1:A:1498:GLU:C	2.51	0.49
1:A:1502:ARG:HD3	1:A:1505:GLN:NE2	2.27	0.49
1:A:1642:THR:N	1:A:1652:GLN:OE1	2.45	0.49
1:A:1701:LYS:O	1:A:1702:GLU:O	2.30	0.49
1:A:865:CYS:O	1:A:866:GLY:O	2.29	0.49
1:A:990:LEU:O	1:A:991:ASP:OD1	2.30	0.49
2:B:1449:UNK:O	2:B:1450:UNK:C	2.60	0.49
2:B:4:TYR:O	2:B:5:SER:CB	2.60	0.49
2:B:703:UNK:C	2:B:705:UNK:N	2.71	0.49
2:B:915:UNK:O	2:B:916:UNK:C	2.59	0.49
1:D:1119:LYS:O	1:D:1120:GLU:HB2	2.11	0.49
1:D:1189:ILE:CG2	1:D:1190:PRO:CD	2.74	0.49
1:D:1316:VAL:HG13	1:D:1317:GLU:OE2	2.12	0.49
1:D:1353:LEU:HA	1:D:1356:PHE:CB	2.41	0.49
1:D:1390:ALA:O	1:D:1393:ALA:HB3	2.11	0.49
1:D:1449:LYS:O	1:D:1453:VAL:HG23	2.11	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1599:ILE:HG13	1:D:1600:LEU:HD13	1.94	0.49
1:D:1426:LEU:HD13	1:D:1650:GLY:HA3	1.94	0.49
1:D:808:LYS:HE3	1:D:808:LYS:CA	2.29	0.49
1:D:952:GLU:O	1:D:956:ALA:HB2	2.12	0.49
2:E:1268:UNK:C	2:E:1270:UNK:N	2.69	0.49
2:E:1482:UNK:O	2:E:1483:UNK:CB	2.60	0.49
2:E:1718:THR:HG23	2:E:1765:ARG:CA	2.41	0.49
2:E:1778:GLN:OE1	2:E:1809:LEU:HD13	2.12	0.49
2:E:843:UNK:O	2:E:845:UNK:N	2.45	0.49
1:G:1036:ARG:HH21	1:G:1040:GLU:CB	2.25	0.49
1:G:1161:GLY:H	1:G:1166:LYS:HA	1.77	0.49
1:G:1194:ASN:O	1:G:1195:ALA:CB	2.60	0.49
1:G:1226:SER:O	1:G:1227:GLY:C	2.48	0.49
1:G:1339:GLY:O	1:G:1340:SER:C	2.50	0.49
1:G:1353:LEU:CA	1:G:1356:PHE:CB	2.90	0.49
1:G:1455:ARG:CG	1:G:1504:ALA:HB2	2.40	0.49
1:G:1536:LEU:H	1:G:1536:LEU:CD1	2.11	0.49
1:G:1700:SER:HA	1:G:1701:LYS:CE	2.42	0.49
1:G:662:UNK:O	1:G:663:UNK:C	2.60	0.49
2:H:1047:UNK:C	2:H:1049:UNK:N	2.71	0.49
2:H:1342:UNK:C	2:H:1344:UNK:N	2.74	0.49
2:H:1715:VAL:CG2	2:H:1770:LEU:N	2.75	0.49
2:H:1785:GLU:HG2	3:I:20:UNK:O	2.11	0.49
2:H:309:ARG:CG	2:H:439:ILE:HG22	2.40	0.49
2:H:475:ILE:C	2:H:477:GLU:H	2.16	0.49
1:A:1156:GLU:CG	1:A:1169:LYS:HA	2.42	0.49
1:A:1306:ALA:HB2	1:A:1645:GLY:N	2.27	0.49
1:A:1316:VAL:HG13	1:A:1317:GLU:OE2	2.11	0.49
1:A:1418:VAL:CA	1:A:1419:PRO:O	2.58	0.49
1:A:1487:LEU:HA	1:A:1490:THR:CG2	2.42	0.49
1:A:1668:ASP:O	1:A:1670:TYR:N	2.35	0.49
1:A:278:UNK:O	1:A:279:UNK:CB	2.60	0.49
1:A:655:UNK:O	1:A:657:UNK:N	2.45	0.49
2:B:1058:UNK:O	2:B:1061:UNK:N	2.46	0.49
2:B:1672:GLN:HB2	2:B:1676:MET:HE1	1.94	0.49
2:B:1888:ILE:HA	2:B:1891:TYR:CZ	2.46	0.49
2:B:14:GLY:HA3	2:B:18:HIS:CG	2.48	0.49
2:B:241:ILE:HG21	2:B:275:GLN:HG2	1.93	0.49
2:B:248:HIS:CG	2:B:529:VAL:HG11	2.47	0.49
2:B:292:PHE:O	2:B:296:VAL:HG23	2.12	0.49
2:B:876:UNK:O	2:B:877:UNK:CB	2.60	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:64:UNK:O	3:C:65:UNK:O	2.30	0.49
1:D:1067:LEU:CG	1:D:1073:THR:HG23	2.26	0.49
1:D:1076:VAL:HG21	1:D:1087:LYS:CA	2.42	0.49
1:D:1139:GLU:HG2	1:D:1140:THR:H	1.76	0.49
1:D:1198:TYR:CE2	1:D:1217:VAL:HG11	2.47	0.49
1:D:1240:VAL:CG1	1:D:1242:GLU:HB3	2.43	0.49
1:D:1532:THR:OG1	1:D:1535:ASP:HB3	2.11	0.49
1:D:653:UNK:O	1:D:654:UNK:C	2.59	0.49
2:E:1058:UNK:O	2:E:1061:UNK:N	2.45	0.49
2:E:1709:ILE:CD1	2:E:1719:ILE:HD11	2.32	0.49
2:E:1774:THR:O	2:E:1774:THR:HG22	2.11	0.49
2:E:1879:GLY:O	2:E:1880:LYS:HB3	2.12	0.49
2:E:309:ARG:CG	2:E:439:ILE:HG22	2.40	0.49
2:E:460:TYR:CD2	2:E:465:GLY:HA3	2.47	0.49
1:G:1051:VAL:O	1:G:1055:TRP:N	2.45	0.49
1:G:1062:TYR:HB2	1:G:1077:ASP:HA	1.94	0.49
1:G:1080:THR:HB	1:G:1081:LYS:HE2	1.94	0.49
1:G:1099:GLU:C	1:G:1102:GLY:H	2.12	0.49
1:G:1131:LEU:C	1:G:1133:PRO:HD3	2.32	0.49
1:G:1254:VAL:C	1:G:1256:ALA:N	2.48	0.49
1:G:1288:ASN:C	1:G:1290:LEU:N	2.65	0.49
1:G:1599:ILE:HG13	1:G:1600:LEU:HD13	1.93	0.49
1:G:1486:LEU:HD12	1:G:1754:UNK:O	2.12	0.49
1:G:197:UNK:O	1:G:198:UNK:C	2.60	0.49
2:H:1418:UNK:O	2:H:1420:UNK:N	2.45	0.49
2:H:1458:UNK:O	2:H:1459:UNK:C	2.60	0.49
2:H:1972:UNK:O	2:H:1973:UNK:C	2.60	0.49
2:H:199:ILE:HG12	2:H:200:ARG:N	2.27	0.49
2:H:919:UNK:O	2:H:922:UNK:N	2.45	0.49
1:A:1118:LYS:HE2	1:A:1337:GLU:CA	2.37	0.49
1:A:1203:ASP:C	1:A:1205:ILE:H	2.13	0.49
1:A:1274:ILE:CG2	1:A:1275:LEU:N	2.76	0.49
1:A:1246:CYS:N	1:A:1328:ILE:CG2	2.74	0.49
1:A:1022:THR:O	1:A:1401:TYR:CE2	2.64	0.49
1:A:1425:ILE:O	1:A:1426:LEU:HB3	2.12	0.49
1:A:1625:LEU:HD21	1:A:1626:TYR:CD1	2.48	0.49
2:B:1707:LEU:O	2:B:1708:ASP:C	2.50	0.49
2:B:323:ILE:O	2:B:324:LEU:C	2.51	0.49
2:B:264:ARG:HD2	2:B:456:GLN:HG3	1.93	0.49
1:D:1036:ARG:HE	1:D:1037:TRP:CA	2.25	0.49
1:D:1200:ILE:HD12	1:D:1698:PHE:CE2	2.47	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1216:LEU:HD13	1:D:1698:PHE:CE1	2.48	0.49
1:D:1254:VAL:CG1	1:D:1255:SER:N	2.65	0.49
1:D:1476:GLU:C	1:D:1478:PRO:HD2	2.33	0.49
2:E:1413:UNK:C	2:E:1415:UNK:N	2.71	0.49
2:E:1738:PHE:HB2	2:E:1755:ILE:CG2	2.42	0.49
2:E:1877:ARG:HB3	2:E:1929:LYS:HZ2	1.74	0.49
2:E:1904:LEU:O	2:E:1907:LEU:HG	2.12	0.49
2:E:617:UNK:CB	2:E:649:UNK:HA	2.41	0.49
1:G:1074:GLY:C	1:G:1075:TRP:CD1	2.86	0.49
1:G:1200:ILE:HG13	1:G:1201:SER:N	2.27	0.49
1:G:1266:LYS:O	1:G:1267:ASP:C	2.50	0.49
1:G:1274:ILE:O	1:G:1276:GLN:N	2.45	0.49
1:G:689:GLY:HA2	1:G:692:VAL:CG2	2.42	0.49
1:G:865:CYS:O	1:G:866:GLY:O	2.29	0.49
2:H:1490:UNK:O	2:H:1491:UNK:CB	2.60	0.49
2:H:1573:UNK:C	2:H:1575:UNK:N	2.73	0.49
2:H:197:GLU:C	2:H:199:ILE:N	2.66	0.49
2:H:4:TYR:O	2:H:5:SER:CB	2.61	0.49
2:H:753:UNK:O	2:H:754:UNK:C	2.59	0.49
1:A:1062:TYR:CD1	1:A:1063:HIS:N	2.64	0.49
1:A:1146:HIS:O	1:A:1147:GLN:C	2.50	0.49
1:A:1204:ILE:O	1:A:1208:VAL:HG22	2.12	0.49
1:A:1241:SER:C	1:A:1243:VAL:N	2.64	0.49
1:A:1453:VAL:O	1:A:1455:ARG:O	2.31	0.49
1:A:1486:LEU:HD12	1:A:1754:UNK:O	2.13	0.49
1:A:1495:ASN:O	1:A:1496:GLU:C	2.50	0.49
1:A:1493:ILE:O	1:A:1496:GLU:HB2	2.12	0.49
1:A:1519:ILE:HD11	1:A:1521:PRO:HD2	1.93	0.49
1:A:1536:LEU:CA	1:A:1638:ALA:HB3	2.40	0.49
1:A:1605:ILE:HD13	1:A:1605:ILE:N	2.27	0.49
1:A:386:UNK:C	1:A:388:UNK:N	2.70	0.49
2:B:1786:LYS:O	2:B:1787:ALA:C	2.49	0.49
2:B:1860:GLY:O	2:B:1861:ARG:HB2	2.13	0.49
2:B:2022:UNK:C	2:B:2024:UNK:N	2.60	0.49
2:B:272:GLY:HA3	2:B:277:LEU:HA	1.95	0.49
2:B:281:VAL:HG12	2:B:282:ALA:N	2.27	0.49
2:B:4:TYR:O	2:B:5:SER:HB3	2.12	0.49
1:D:1131:LEU:C	1:D:1133:PRO:HD3	2.33	0.49
1:D:1299:LYS:NZ	1:D:1323:LYS:HZ1	2.10	0.49
1:D:1307:THR:O	1:D:1308:SER:OG	2.30	0.49
1:D:1343:PHE:C	1:D:1345:ASN:N	2.66	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1453:VAL:O	1:D:1455:ARG:O	2.30	0.49
1:D:1541:PHE:CE2	1:D:1554:SER:OG	2.61	0.49
1:D:1597:LEU:H	1:D:1597:LEU:HD23	1.78	0.49
1:D:197:UNK:O	1:D:198:UNK:C	2.60	0.49
1:D:737:PHE:CD1	1:D:748:LEU:HD22	2.48	0.49
1:D:829:ASN:HB3	1:D:832:THR:CB	2.42	0.49
2:E:1415:UNK:O	2:E:1416:UNK:CB	2.59	0.49
2:E:193:GLU:O	2:E:196:SER:HB3	2.12	0.49
2:E:1981:UNK:O	2:E:1982:UNK:CB	2.61	0.49
2:E:504:PHE:N	2:E:504:PHE:CD2	2.80	0.49
1:G:1157:ILE:HG22	1:G:1158:PRO:CD	2.22	0.49
1:G:1290:LEU:O	1:G:1291:LEU:HB2	2.10	0.49
1:G:1328:ILE:O	1:G:1328:ILE:CG1	2.59	0.49
1:G:1522:LEU:HB3	1:G:1526:LEU:CD2	2.42	0.49
1:G:1646:PHE:C	1:G:1648:GLN:N	2.65	0.49
1:G:710:PHE:HE1	1:G:736:PRO:CD	2.17	0.49
1:G:719:GLN:HG3	1:G:720:SER:H	1.77	0.49
1:G:829:ASN:HB3	1:G:832:THR:HG21	1.94	0.49
1:G:874:GLY:HA3	1:G:899:LYS:HD2	1.93	0.49
2:H:49:ALA:H	2:H:118:LYS:NZ	2.08	0.49
2:H:1211:UNK:O	2:H:1212:UNK:CB	2.59	0.49
2:H:1449:UNK:O	2:H:1450:UNK:C	2.60	0.49
2:H:1673:GLU:O	2:H:1674:GLN:C	2.51	0.49
2:H:1680:LEU:O	2:H:1681:TYR:C	2.50	0.49
2:H:1723:GLY:O	2:H:1724:GLU:C	2.51	0.49
2:H:183:LEU:O	2:H:184:VAL:HB	2.10	0.49
2:H:1883:GLY:HA2	2:H:1894:GLU:CG	2.42	0.49
2:H:56:THR:O	2:H:59:GLU:CG	2.61	0.49
2:H:87:CYS:C	2:H:90:GLU:HB3	2.32	0.49
1:A:1224:ILE:HD13	1:A:1687:PHE:CD2	2.47	0.49
1:A:1239:HIS:C	1:A:1241:SER:N	2.58	0.49
1:A:1456:GLU:N	1:A:1459:ILE:HG12	2.22	0.49
1:A:1599:ILE:HD11	1:A:1639:VAL:CG1	2.41	0.49
1:A:1625:LEU:HD13	1:A:1626:TYR:N	2.28	0.49
1:A:1659:ASP:CA	1:A:1662:TYR:HD2	2.21	0.49
1:A:1704:ALA:CB	1:A:1705:PRO:HD2	2.27	0.49
1:A:1872:UNK:HA	1:A:1881:UNK:CB	2.43	0.49
1:A:864:VAL:O	1:A:865:CYS:HB2	2.12	0.49
1:A:882:ASN:O	1:A:883:ILE:HG13	2.13	0.49
1:A:884:ILE:HG22	1:A:887:GLY:CA	2.41	0.49
2:B:1883:GLY:HA2	2:B:1894:GLU:CG	2.43	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:303:LEU:HA	2:B:306:ILE:CD1	2.42	0.49
2:B:248:HIS:HE1	2:B:530:ALA:HB2	1.77	0.49
2:B:53:GLU:HG2	2:B:55:THR:H	1.78	0.49
2:B:57:PRO:O	2:B:59:GLU:N	2.45	0.49
1:D:1079:LYS:O	1:D:1083:PRO:HD2	2.11	0.49
1:D:1239:HIS:O	1:D:1241:SER:N	2.42	0.49
1:D:1248:GLY:HA2	1:D:1330:GLY:HA3	1.95	0.49
1:D:937:LYS:O	1:D:940:THR:N	2.46	0.49
2:E:1041:UNK:O	2:E:1042:UNK:C	2.60	0.49
2:E:1449:UNK:O	2:E:1450:UNK:C	2.61	0.49
2:E:239:PRO:HG2	2:E:240:LEU:H	1.76	0.49
2:E:379:VAL:HG12	2:E:380:SER:N	2.28	0.49
2:E:402:LEU:HD13	2:E:405:SER:OG	2.12	0.49
2:E:443:LEU:HB3	2:E:449:SER:HB3	1.94	0.49
1:G:1076:VAL:HG21	1:G:1087:LYS:CA	2.42	0.49
1:G:1141:ALA:HA	1:G:1144:PHE:HE1	1.74	0.49
1:G:1536:LEU:HB3	1:G:1638:ALA:CB	2.40	0.49
1:G:1596:ALA:O	1:G:1597:LEU:C	2.50	0.49
1:G:1599:ILE:HD11	1:G:1639:VAL:CG1	2.41	0.49
1:G:1002:LYS:HD2	1:G:1670:TYR:CE1	2.47	0.49
1:G:864:VAL:CG1	1:G:865:CYS:N	2.75	0.49
2:H:1196:UNK:O	2:H:1197:UNK:O	2.31	0.49
2:H:1361:UNK:O	2:H:1362:UNK:CB	2.59	0.49
2:H:265:SER:O	2:H:266:TYR:C	2.51	0.49
2:H:264:ARG:HD2	2:H:456:GLN:HG3	1.94	0.49
2:H:53:GLU:HG2	2:H:55:THR:H	1.77	0.49
2:H:653:UNK:O	2:H:654:UNK:C	2.59	0.49
1:A:1193:TRP:CZ2	1:A:1380:GLN:CB	2.86	0.49
1:A:1240:VAL:HG13	1:A:1242:GLU:HB2	1.92	0.49
1:A:1476:GLU:O	1:A:1476:GLU:HG3	2.12	0.49
1:A:1002:LYS:HD2	1:A:1670:TYR:CE1	2.48	0.49
1:A:737:PHE:CZ	1:A:739:GLN:HA	2.47	0.49
1:A:826:MET:HB2	1:A:868:ILE:CA	2.37	0.49
1:A:869:ILE:CG2	1:A:901:MET:SD	2.99	0.49
1:A:904:ASN:HB3	1:A:926:LEU:HD13	1.94	0.49
1:A:953:VAL:O	1:A:956:ALA:HB3	2.11	0.49
2:B:1051:UNK:O	2:B:1053:UNK:N	2.45	0.49
2:B:1341:UNK:O	2:B:1342:UNK:CB	2.59	0.49
2:B:253:ALA:O	2:B:254:LYS:C	2.51	0.49
1:D:1036:ARG:O	1:D:1040:GLU:N	2.32	0.49
1:D:1051:VAL:O	1:D:1055:TRP:N	2.45	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1074:GLY:C	1:D:1075:TRP:CD1	2.86	0.49
1:D:1097:ILE:O	1:D:1098:LEU:HD13	2.11	0.49
1:D:1151:LYS:CD	1:D:1151:LYS:H	2.24	0.49
1:D:1260:MET:SD	1:D:1275:LEU:HD23	2.52	0.49
1:D:1290:LEU:HB3	1:D:1291:LEU:HD13	1.93	0.49
1:D:1378:GLU:HA	1:D:1583:HIS:HA	1.95	0.49
1:D:1522:LEU:HB3	1:D:1526:LEU:CD2	2.43	0.49
1:D:278:UNK:O	1:D:279:UNK:CB	2.60	0.49
1:D:521:UNK:O	1:D:522:UNK:C	2.60	0.49
1:D:747:ALA:O	1:D:751:PHE:N	2.39	0.49
2:E:1706:ILE:CD1	2:E:1783:LEU:HD12	2.43	0.49
2:E:240:LEU:HA	2:E:243:VAL:HG21	1.93	0.49
2:E:27:PHE:O	2:E:30:ALA:HB3	2.13	0.49
2:E:321:PRO:O	2:E:323:ILE:N	2.46	0.49
2:E:345:THR:O	2:E:349:VAL:HG23	2.13	0.49
1:G:1209:ASP:O	1:G:1210:PRO:O	2.30	0.49
1:G:1248:GLY:O	1:G:1300:THR:HG23	2.11	0.49
1:G:1493:ILE:O	1:G:1496:GLU:HB2	2.12	0.49
1:G:1710:LEU:O	1:G:1711:GLU:C	2.51	0.49
1:G:563:UNK:O	1:G:565:UNK:N	2.46	0.49
1:G:792:HIS:CE1	1:G:796:LEU:CD2	2.95	0.49
2:H:217:GLU:O	2:H:219:LEU:N	2.46	0.49
2:H:915:UNK:O	2:H:916:UNK:C	2.61	0.49
1:A:1118:LYS:CG	1:A:1118:LYS:O	2.61	0.49
1:A:1244:GLY:O	1:A:1327:CYS:HA	2.13	0.49
1:A:1186:ALA:HB1	1:A:1349:THR:HG21	1.93	0.49
1:A:1396:MET:O	1:A:1397:GLY:O	2.30	0.49
1:A:1522:LEU:HB3	1:A:1526:LEU:CD2	2.43	0.49
1:A:1562:LYS:NZ	1:A:1621:PHE:HZ	2.10	0.49
1:A:1614:VAL:HG12	1:A:1614:VAL:O	2.12	0.49
1:A:1665:ILE:O	1:A:1666:THR:HB	2.12	0.49
1:A:1710:LEU:O	1:A:1711:GLU:C	2.50	0.49
1:A:446:UNK:CB	1:A:1619:GLU:OE2	2.61	0.49
1:A:780:GLU:O	1:A:781:LEU:C	2.50	0.49
2:B:1014:UNK:O	2:B:1016:UNK:N	2.45	0.49
2:B:1681:TYR:CD2	2:B:1681:TYR:C	2.86	0.49
2:B:1924:ILE:HG22	2:B:1925:ILE:N	2.20	0.49
2:B:214:ASN:C	2:B:216:LEU:N	2.65	0.49
2:B:241:ILE:HA	2:B:244:ILE:HD12	1.93	0.49
2:B:244:ILE:HG22	2:B:248:HIS:CD2	2.47	0.49
2:B:321:PRO:C	2:B:323:ILE:N	2.63	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:368:ILE:O	2:B:368:ILE:HG23	2.12	0.49
2:B:46:GLU:O	2:B:47:GLY:C	2.51	0.49
2:B:869:UNK:C	2:B:871:UNK:N	2.73	0.49
1:A:243:UNK:CB	1:D:1138:LYS:NZ	2.76	0.49
1:D:1274:ILE:HG23	1:D:1275:LEU:N	2.27	0.49
1:D:1353:LEU:CA	1:D:1356:PHE:CB	2.89	0.49
1:D:1578:LYS:HE3	1:D:1584:PRO:CB	2.41	0.49
1:D:1625:LEU:HD21	1:D:1626:TYR:CD1	2.48	0.49
1:D:1722:VAL:HA	1:D:1731:LEU:HA	1.94	0.49
1:D:1782:UNK:C	1:D:1784:UNK:N	2.71	0.49
1:D:458:UNK:HA	1:D:1631:LEU:HD21	1.95	0.49
1:D:953:VAL:O	1:D:956:ALA:HB3	2.13	0.49
2:E:1336:UNK:O	2:E:1340:UNK:CB	2.61	0.49
2:E:1534:UNK:HA	2:E:1630:UNK:O	2.13	0.49
2:E:1857:ILE:HG12	2:E:1949:UNK:CB	2.42	0.49
2:E:281:VAL:HG12	2:E:282:ALA:N	2.27	0.49
2:E:540:ASP:HB2	2:E:544:LYS:HZ2	1.78	0.49
2:E:57:PRO:O	2:E:59:GLU:N	2.45	0.49
2:E:703:UNK:C	2:E:705:UNK:N	2.72	0.49
1:G:1067:LEU:CD2	1:G:1074:GLY:H	2.26	0.49
1:G:1094:GLU:O	1:G:1095:THR:C	2.51	0.49
1:G:1216:LEU:HD11	1:G:1290:LEU:CD2	2.43	0.49
1:G:1246:CYS:N	1:G:1328:ILE:CG2	2.75	0.49
1:G:1291:LEU:N	1:G:1291:LEU:CD1	2.75	0.49
1:G:1497:ALA:O	1:G:1498:GLU:C	2.50	0.49
1:G:1646:PHE:C	1:G:1648:GLN:H	2.15	0.49
1:G:396:UNK:O	1:G:398:UNK:N	2.46	0.49
1:G:407:UNK:C	1:G:409:UNK:N	2.75	0.49
1:G:998:TYR:CD1	1:G:999:LYS:HG2	2.48	0.49
2:H:1737:ILE:O	2:H:1738:PHE:CB	2.59	0.49
2:H:1756:ASN:O	2:H:1757:GLU:C	2.51	0.49
2:H:186:ASP:O	2:H:187:LEU:C	2.51	0.49
2:H:240:LEU:HA	2:H:243:VAL:HG21	1.94	0.49
2:H:56:THR:O	2:H:59:GLU:HG2	2.12	0.49
1:A:1141:ALA:HA	1:A:1144:PHE:HE1	1.73	0.49
1:A:1264:ARG:O	1:A:1265:PHE:C	2.49	0.49
1:A:1384:ILE:C	1:A:1385:GLN:HG3	2.33	0.49
1:A:1528:THR:O	1:A:1530:GLY:N	2.45	0.49
1:A:1538:VAL:O	1:A:1539:ALA:CB	2.61	0.49
1:A:1562:LYS:CE	1:A:1621:PHE:HZ	2.25	0.49
1:A:807:LYS:HG2	1:A:861:GLN:HG3	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:873:ARG:HG3	1:A:874:GLY:N	2.27	0.49
2:B:1458:UNK:O	2:B:1459:UNK:C	2.60	0.49
2:B:1476:UNK:HA	2:B:1486:UNK:CB	2.43	0.49
2:B:1817:SER:O	2:B:1818:LEU:C	2.51	0.49
2:B:261:GLY:HA2	2:B:264:ARG:CD	2.43	0.49
2:B:306:ILE:O	2:B:310:CYS:SG	2.71	0.49
2:B:972:UNK:C	2:B:974:UNK:N	2.72	0.49
1:D:1292:ILE:HG13	1:D:1294:SER:HB2	1.95	0.49
1:D:1642:THR:N	1:D:1652:GLN:OE1	2.45	0.49
1:D:1710:LEU:O	1:D:1711:GLU:C	2.51	0.49
1:D:632:UNK:CB	1:D:894:ARG:NH1	2.75	0.49
2:E:1817:SER:O	2:E:1818:LEU:C	2.51	0.49
2:E:303:LEU:HA	2:E:306:ILE:CD1	2.42	0.49
2:E:429:SER:HB2	2:E:431:LEU:HD23	1.93	0.49
2:E:517:HIS:O	2:E:518:ARG:C	2.51	0.49
2:E:53:GLU:HG2	2:E:55:THR:H	1.77	0.49
1:G:1118:LYS:HG3	1:G:1118:LYS:O	2.13	0.49
1:G:1253:GLY:O	1:G:1254:VAL:C	2.51	0.49
1:G:1290:LEU:HA	1:G:1701:LYS:HD2	1.94	0.49
1:G:1641:ILE:O	1:G:1642:THR:CB	2.60	0.49
1:G:169:UNK:O	1:G:170:UNK:CB	2.61	0.49
1:G:589:UNK:O	1:G:591:UNK:N	2.45	0.49
1:G:884:ILE:HG22	1:G:887:GLY:CA	2.43	0.49
2:H:182:VAL:HG12	2:H:183:LEU:HD23	1.95	0.49
2:H:2033:UNK:C	2:H:2035:UNK:N	2.72	0.49
2:H:330:ASN:ND2	2:H:330:ASN:O	2.46	0.49
1:A:1061:SER:O	1:A:1062:TYR:O	2.31	0.49
1:A:1080:THR:HB	1:A:1081:LYS:HE2	1.95	0.49
1:A:1097:ILE:O	1:A:1098:LEU:HD13	2.13	0.49
1:A:1173:LEU:O	1:A:1174:TYR:CB	2.61	0.49
1:A:1438:TYR:O	1:A:1440:SER:N	2.45	0.49
1:A:1604:ILE:HG23	1:A:1630:THR:HA	1.95	0.49
1:A:1636:VAL:O	1:A:1637:ARG:CB	2.61	0.49
1:A:1639:VAL:HG21	1:A:1655:VAL:HG12	1.94	0.49
2:B:119:THR:O	2:B:122:LEU:HB3	2.13	0.49
2:B:1248:UNK:O	2:B:1250:UNK:N	2.46	0.49
2:B:162:GLY:C	2:B:164:GLY:N	2.65	0.49
2:B:242:GLY:HA2	2:B:245:GLN:NE2	2.17	0.49
3:C:60:UNK:O	3:C:61:UNK:C	2.61	0.49
1:D:1127:VAL:HG23	1:D:1180:ARG:HB2	1.95	0.49
1:D:1320:LEU:CG	1:D:1321:SER:N	2.74	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1373:ARG:CG	1:D:1547:LYS:HD3	2.10	0.49
1:D:1626:TYR:HB2	1:D:1627:PRO:HD2	1.95	0.49
1:D:1636:VAL:O	1:D:1637:ARG:CB	2.60	0.49
1:D:1734:ASN:HA	1:D:1737:ASN:O	2.13	0.49
1:D:821:GLN:HA	1:D:863:THR:HB	1.94	0.49
2:E:1211:UNK:O	2:E:1212:UNK:CB	2.60	0.49
2:E:1756:ASN:O	2:E:1757:GLU:C	2.51	0.49
2:E:186:ASP:O	2:E:187:LEU:C	2.51	0.49
2:E:423:VAL:HG12	2:E:425:SER:O	2.13	0.49
2:E:437:ASP:O	2:E:440:ASN:HB2	2.12	0.49
2:E:577:UNK:C	2:E:579:UNK:N	2.76	0.49
2:E:4:TYR:HD1	2:E:5:SER:H	1.60	0.49
2:E:653:UNK:O	2:E:654:UNK:C	2.60	0.49
2:E:737:UNK:C	2:E:739:UNK:N	2.74	0.49
2:E:919:UNK:O	2:E:922:UNK:N	2.45	0.49
2:E:949:UNK:C	2:E:951:UNK:N	2.75	0.49
1:G:1103:ILE:O	1:G:1106:ILE:CG1	2.61	0.49
1:G:1193:TRP:CZ2	1:G:1380:GLN:CB	2.87	0.49
1:G:1320:LEU:HG	1:G:1321:SER:H	1.78	0.49
1:G:930:LEU:C	1:G:932:PHE:H	2.16	0.49
1:G:988:ILE:O	1:G:990:LEU:N	2.46	0.49
2:H:1051:UNK:O	2:H:1053:UNK:N	2.46	0.49
2:H:1283:UNK:O	2:H:1284:UNK:O	2.30	0.49
2:H:1482:UNK:O	2:H:1483:UNK:CB	2.61	0.49
2:H:1519:UNK:O	2:H:1521:UNK:N	2.45	0.49
2:H:1687:ALA:O	2:H:1688:GLN:C	2.51	0.49
2:H:1706:ILE:CD1	2:H:1783:LEU:HD12	2.43	0.49
2:H:184:VAL:HG22	2:H:184:VAL:O	2.11	0.49
2:H:213:LEU:HD11	2:H:215:ILE:HD11	1.94	0.49
2:H:184:VAL:HG21	2:H:247:ALA:HB1	1.94	0.49
2:H:460:TYR:CD2	2:H:465:GLY:HA3	2.48	0.49
2:H:577:UNK:C	2:H:579:UNK:N	2.73	0.49
1:A:1208:VAL:HA	1:A:1277:GLU:OE1	2.13	0.49
1:A:1329:VAL:CG1	1:A:1385:GLN:O	2.61	0.49
1:A:1569:GLY:O	1:A:1571:PRO:HD3	2.13	0.49
1:A:458:UNK:HA	1:A:1631:LEU:HD21	1.95	0.49
1:A:1290:LEU:HA	1:A:1701:LYS:HD2	1.93	0.49
1:A:430:UNK:C	1:A:431:UNK:O	2.59	0.49
1:A:580:UNK:O	1:A:582:UNK:N	2.46	0.49
1:A:854:HIS:O	1:A:855:SER:OG	2.23	0.49
2:B:49:ALA:H	2:B:118:LYS:NZ	2.10	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1246:UNK:O	2:B:1247:UNK:C	2.60	0.49
2:B:1830:VAL:O	2:B:1831:VAL:C	2.50	0.49
2:B:390:ASN:O	2:B:393:LEU:HB3	2.12	0.49
2:B:517:HIS:O	2:B:518:ARG:C	2.51	0.49
2:B:91:PHE:CE2	2:B:101:ILE:HD11	2.47	0.49
2:B:922:UNK:O	2:B:924:UNK:N	2.46	0.49
1:D:1229:THR:O	1:D:1230:ASP:HB3	2.13	0.49
1:D:1455:ARG:NH2	1:D:1458:GLN:HB2	2.24	0.49
1:D:1618:LEU:HD22	1:D:1623:TYR:CZ	2.48	0.49
1:D:695:GLY:O	1:D:699:GLY:N	2.37	0.49
1:D:869:ILE:CG2	1:D:901:MET:SD	3.01	0.49
2:E:1058:UNK:HA	2:E:1061:UNK:CB	2.43	0.49
2:E:1283:UNK:O	2:E:1284:UNK:O	2.31	0.49
2:E:1782:THR:O	2:E:1783:LEU:C	2.52	0.49
2:E:1878:VAL:HG23	2:E:1879:GLY:N	2.26	0.49
2:E:408:PRO:HG2	2:E:409:PHE:N	2.27	0.49
2:E:468:LEU:HD21	2:E:479:ILE:HD11	1.94	0.49
2:E:540:ASP:HB2	2:E:544:LYS:CE	2.43	0.49
2:E:667:UNK:HA	2:E:690:UNK:CB	2.43	0.49
2:E:869:UNK:C	2:E:871:UNK:N	2.73	0.49
1:G:1067:LEU:HD23	1:G:1074:GLY:N	2.28	0.49
1:G:1087:LYS:O	1:G:1088:ASP:HB2	2.12	0.49
1:G:1119:LYS:HG2	1:G:1122:ILE:HG12	1.95	0.49
1:G:1244:GLY:O	1:G:1327:CYS:HA	2.10	0.49
1:G:1274:ILE:HG23	1:G:1275:LEU:N	2.26	0.49
1:G:1453:VAL:O	1:G:1457:ALA:HB2	2.13	0.49
1:G:1872:UNK:HA	1:G:1881:UNK:CB	2.43	0.49
1:G:787:LYS:O	1:G:790:PHE:HB3	2.13	0.49
1:G:854:HIS:O	1:G:855:SER:CB	2.59	0.49
2:H:1020:UNK:C	2:H:1022:UNK:N	2.75	0.49
2:H:1260:UNK:O	2:H:1261:UNK:C	2.60	0.49
2:H:1560:UNK:O	2:H:1561:UNK:CB	2.60	0.49
2:H:1706:ILE:O	2:H:1709:ILE:N	2.46	0.49
2:H:1718:THR:HG23	2:H:1765:ARG:CA	2.41	0.49
2:H:1778:GLN:OE1	2:H:1809:LEU:HD13	2.12	0.49
2:H:1878:VAL:HG23	2:H:1879:GLY:N	2.26	0.49
2:H:468:LEU:HD21	2:H:479:ILE:HD11	1.94	0.49
2:H:4:TYR:O	2:H:5:SER:HB3	2.13	0.49
1:A:1045:PHE:O	1:A:1046:SER:O	2.30	0.48
1:A:1251:MET:CE	1:A:1585:LYS:HE2	2.42	0.48
1:A:1339:GLY:O	1:A:1340:SER:O	2.30	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1376:PHE:O	1:A:1377:MET:HG2	2.13	0.48
1:A:1615:ASP:OD1	1:A:1615:ASP:C	2.51	0.48
1:A:690:ALA:O	1:A:694:GLN:HG3	2.13	0.48
1:A:824:LEU:O	1:A:826:MET:HG2	2.13	0.48
1:A:864:VAL:CG1	1:A:865:CYS:N	2.76	0.48
1:A:910:THR:O	1:A:911:PRO:C	2.51	0.48
2:B:1328:UNK:O	2:B:1329:UNK:C	2.61	0.48
2:B:41:LEU:N	2:B:42:PRO:CD	2.75	0.48
2:B:719:UNK:O	2:B:720:UNK:CB	2.61	0.48
2:B:723:UNK:O	2:B:725:UNK:N	2.45	0.48
2:B:822:UNK:O	2:B:823:UNK:CB	2.60	0.48
1:D:1099:GLU:C	1:D:1102:GLY:H	2.12	0.48
1:D:1135:GLU:O	1:D:1136:ALA:HB3	2.13	0.48
1:D:1190:PRO:HG3	1:D:1379:ALA:HA	1.95	0.48
1:D:1328:ILE:O	1:D:1328:ILE:CG1	2.60	0.48
1:D:1313:ASP:OD2	1:D:1407:ALA:O	2.31	0.48
1:D:1425:ILE:O	1:D:1426:LEU:HB3	2.13	0.48
1:D:1519:ILE:CG1	1:D:1521:PRO:HD2	2.42	0.48
1:D:1604:ILE:HG23	1:D:1630:THR:HA	1.94	0.48
1:D:1625:LEU:HD11	1:D:1626:TYR:HD1	1.78	0.48
1:D:1665:ILE:O	1:D:1666:THR:HB	2.13	0.48
1:D:705:VAL:CG2	1:D:732:LEU:HD11	2.43	0.48
2:E:253:ALA:O	2:E:254:LYS:C	2.52	0.48
2:E:462:THR:HG21	2:E:482:CYS:O	2.13	0.48
2:E:4:TYR:O	2:E:5:SER:HB3	2.12	0.48
2:E:915:UNK:O	2:E:916:UNK:C	2.60	0.48
3:F:60:UNK:O	3:F:61:UNK:C	2.60	0.48
1:G:1207:GLN:C	1:G:1207:GLN:HE21	2.13	0.48
1:G:1204:ILE:O	1:G:1208:VAL:HG22	2.13	0.48
1:G:1353:LEU:HA	1:G:1356:PHE:CB	2.42	0.48
1:G:1370:THR:H	1:G:1547:LYS:CD	2.21	0.48
1:G:1541:PHE:CD2	1:G:1553:GLU:OE2	2.66	0.48
1:G:1625:LEU:HD21	1:G:1626:TYR:CD1	2.48	0.48
1:G:1536:LEU:CA	1:G:1638:ALA:HB3	2.43	0.48
1:G:1722:VAL:HA	1:G:1731:LEU:HA	1.95	0.48
1:G:737:PHE:CD1	1:G:748:LEU:HD22	2.48	0.48
1:G:742:LYS:O	1:G:744:ASP:N	2.45	0.48
1:G:833:PHE:HD1	1:G:833:PHE:H	1.61	0.48
2:H:1256:UNK:O	2:H:1258:UNK:N	2.45	0.48
2:H:1314:UNK:O	2:H:1315:UNK:CB	2.60	0.48
2:H:1328:UNK:O	2:H:1329:UNK:C	2.60	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:1887:GLU:OE2	2:H:1888:ILE:HG22	2.13	0.48
2:H:494:THR:O	2:H:495:GLN:C	2.51	0.48
2:H:753:UNK:O	2:H:754:UNK:O	2.30	0.48
2:H:822:UNK:O	2:H:823:UNK:CB	2.60	0.48
1:A:1099:GLU:CG	1:A:1100:HIS:N	2.65	0.48
1:A:1114:TYR:CB	1:A:1115:ASN:ND2	2.68	0.48
1:A:1118:LYS:HZ2	1:A:1337:GLU:HG3	1.75	0.48
1:A:1275:LEU:C	1:A:1275:LEU:HD13	2.34	0.48
1:A:808:LYS:HA	1:A:808:LYS:CE	2.28	0.48
1:A:957:VAL:O	1:A:958:SER:C	2.52	0.48
2:B:1173:UNK:CB	2:B:1181:UNK:N	2.72	0.48
2:B:1271:UNK:O	2:B:1272:UNK:C	2.61	0.48
2:B:1421:UNK:O	2:B:1423:UNK:N	2.46	0.48
2:B:1687:ALA:O	2:B:1690:VAL:HB	2.13	0.48
2:B:504:PHE:CD2	2:B:504:PHE:N	2.81	0.48
1:D:1169:LYS:CG	1:D:1170:GLY:H	2.17	0.48
1:D:1418:VAL:HG11	1:D:1647:GLY:N	2.28	0.48
1:D:1703:HIS:O	1:D:1704:ALA:HB3	2.13	0.48
1:D:1705:PRO:HG2	1:D:1706:TYR:CD1	2.48	0.48
1:D:1729:GLY:O	1:D:1730:SER:HB3	2.13	0.48
1:D:689:GLY:O	1:D:690:ALA:C	2.52	0.48
1:D:869:ILE:HG23	1:D:926:LEU:CB	2.36	0.48
1:D:929:GLY:O	1:D:931:GLN:N	2.46	0.48
2:E:1587:UNK:O	2:E:1588:UNK:C	2.61	0.48
2:E:1871:LEU:HD13	2:E:1882:THR:HG22	1.96	0.48
2:E:2021:UNK:O	2:E:2022:UNK:CB	2.60	0.48
2:E:974:UNK:C	2:E:976:UNK:N	2.73	0.48
1:G:1029:PRO:HB3	1:G:1191:THR:O	2.14	0.48
1:G:1107:GLU:OE1	1:G:1190:PRO:HA	2.14	0.48
1:G:1184:LEU:HD12	1:G:1185:VAL:H	1.78	0.48
1:G:1229:THR:O	1:G:1230:ASP:HB3	2.13	0.48
1:G:1248:GLY:O	1:G:1301:PRO:HD2	2.13	0.48
1:G:1525:ALA:C	1:G:1527:ALA:N	2.67	0.48
1:G:1605:ILE:CG1	1:G:1606:PRO:HA	2.43	0.48
1:G:1735:SER:O	1:G:1737:ASN:N	2.46	0.48
1:G:460:UNK:O	1:G:462:UNK:N	2.46	0.48
1:G:864:VAL:CG1	1:G:865:CYS:H	2.26	0.48
2:H:1271:UNK:O	2:H:1272:UNK:C	2.61	0.48
2:H:1587:UNK:O	2:H:1588:UNK:C	2.61	0.48
2:H:1807:HIS:O	2:H:1809:LEU:N	2.46	0.48
2:H:1898:TYR:CD2	2:H:1936:VAL:HG23	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:1855:ILE:CG2	2:H:1951:UNK:HA	2.43	0.48
2:H:375:LYS:CG	2:H:376:ASN:H	2.23	0.48
2:H:479:ILE:HA	2:H:482:CYS:SG	2.53	0.48
2:H:57:PRO:C	2:H:59:GLU:N	2.65	0.48
2:H:735:UNK:C	2:H:737:UNK:N	2.71	0.48
2:H:765:UNK:O	2:H:766:UNK:C	2.61	0.48
1:A:1094:GLU:O	1:A:1095:THR:C	2.52	0.48
1:A:1156:GLU:HG2	1:A:1169:LYS:C	2.33	0.48
1:A:1158:PRO:CG	1:A:1159:GLU:N	2.75	0.48
1:A:1173:LEU:O	1:A:1174:TYR:O	2.32	0.48
1:A:1187:GLY:CA	1:A:1188:GLN:NE2	2.76	0.48
1:A:1209:ASP:O	1:A:1210:PRO:O	2.30	0.48
1:A:1219:VAL:HG13	1:A:1220:VAL:N	2.28	0.48
1:A:1230:ASP:O	1:A:1232:TYR:N	2.46	0.48
1:A:1378:GLU:HA	1:A:1583:HIS:HA	1.94	0.48
1:A:1470:LEU:O	1:A:1474:ALA:N	2.45	0.48
1:A:1487:LEU:HA	1:A:1490:THR:HG21	1.95	0.48
1:A:1700:SER:HA	1:A:1701:LYS:CE	2.43	0.48
1:A:197:UNK:O	1:A:198:UNK:C	2.60	0.48
1:A:930:LEU:C	1:A:932:PHE:H	2.17	0.48
2:B:1706:ILE:O	2:B:1707:LEU:C	2.51	0.48
2:B:1778:GLN:OE1	2:B:1809:LEU:HD13	2.13	0.48
2:B:2021:UNK:O	2:B:2022:UNK:CB	2.60	0.48
2:B:55:THR:HG22	2:B:55:THR:O	2.12	0.48
2:B:928:UNK:O	2:B:929:UNK:C	2.59	0.48
1:D:1057:MET:HE3	1:D:1106:ILE:CG1	2.42	0.48
1:D:1438:TYR:O	1:D:1440:SER:N	2.46	0.48
1:D:1470:LEU:HD21	1:D:1485:PHE:HE2	1.78	0.48
1:D:1491:ARG:NH1	1:D:1491:ARG:HG2	2.28	0.48
1:D:1493:ILE:CG1	1:D:1494:HIS:N	2.76	0.48
1:D:1540:SER:OG	1:D:1592:MET:HB3	2.13	0.48
1:D:1614:VAL:O	1:D:1615:ASP:CB	2.50	0.48
1:D:1232:TYR:CE1	1:D:1705:PRO:HD3	2.41	0.48
1:D:534:UNK:HA	1:D:537:UNK:CB	2.44	0.48
1:D:677:TYR:O	1:D:678:VAL:HG23	2.13	0.48
1:D:681:THR:HA	1:D:706:THR:HG21	1.95	0.48
1:D:719:GLN:HG3	1:D:720:SER:H	1.79	0.48
1:D:809:GLN:O	1:D:812:ALA:HB3	2.13	0.48
2:E:1416:UNK:HA	2:E:1419:UNK:CB	2.43	0.48
2:E:159:ILE:HG22	2:E:160:PHE:N	2.28	0.48
2:E:173:LEU:HD23	2:E:173:LEU:C	2.34	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:1814:ALA:HB1	2:E:1818:LEU:HD12	1.96	0.48
2:E:1830:VAL:HG13	2:E:1831:VAL:H	1.77	0.48
2:E:1878:VAL:CG1	2:E:1898:TYR:HE1	2.27	0.48
2:E:272:GLY:HA3	2:E:277:LEU:HA	1.95	0.48
2:E:433:VAL:H	2:E:434:PRO:CD	2.20	0.48
2:E:494:THR:HB	2:E:520:LYS:HZ1	1.75	0.48
2:E:585:UNK:O	2:E:586:UNK:CB	2.60	0.48
2:E:67:TYR:O	2:E:69:SER:N	2.46	0.48
3:F:59:UNK:O	3:F:60:UNK:C	2.61	0.48
1:G:1087:LYS:HE3	1:G:1089:VAL:CG1	2.43	0.48
1:G:1379:ALA:O	1:G:1380:GLN:O	2.32	0.48
1:G:1392:LEU:HD22	1:G:1392:LEU:N	2.23	0.48
1:G:1425:ILE:O	1:G:1426:LEU:HB3	2.13	0.48
1:G:1470:LEU:HD21	1:G:1485:PHE:HE2	1.77	0.48
1:G:1502:ARG:HD3	1:G:1505:GLN:NE2	2.28	0.48
1:G:1597:LEU:HD23	1:G:1597:LEU:H	1.79	0.48
1:G:1418:VAL:HG11	1:G:1647:GLY:N	2.28	0.48
1:G:1703:HIS:O	1:G:1704:ALA:HB3	2.14	0.48
1:G:485:UNK:O	1:G:487:UNK:N	2.46	0.48
1:G:625:UNK:O	1:G:626:UNK:C	2.61	0.48
1:G:693:LEU:HG	1:G:697:LEU:HD12	1.94	0.48
2:H:1295:UNK:O	2:H:1299:UNK:N	2.47	0.48
2:H:617:UNK:CB	2:H:649:UNK:HA	2.43	0.48
2:H:719:UNK:O	2:H:720:UNK:CB	2.61	0.48
2:H:720:UNK:C	2:H:722:UNK:N	2.76	0.48
1:A:1226:SER:OG	1:A:1226:SER:O	2.30	0.48
1:A:1022:THR:CG2	1:A:1398:VAL:HG23	2.19	0.48
1:A:1626:TYR:HB2	1:A:1627:PRO:HD2	1.95	0.48
1:A:1698:PHE:O	1:A:1699:VAL:HG13	2.13	0.48
1:A:747:ALA:O	1:A:751:PHE:N	2.37	0.48
1:A:821:GLN:HA	1:A:863:THR:HB	1.95	0.48
1:A:869:ILE:HG23	1:A:926:LEU:CB	2.37	0.48
1:A:933:VAL:HA	1:A:934:PRO:HD3	1.64	0.48
1:A:937:LYS:O	1:A:940:THR:N	2.46	0.48
2:B:1058:UNK:C	2:B:1060:UNK:N	2.76	0.48
2:B:1678:MET:O	2:B:1679:ASP:C	2.52	0.48
2:B:186:ASP:O	2:B:187:LEU:C	2.50	0.48
2:B:1879:GLY:O	2:B:1880:LYS:HB3	2.13	0.48
2:B:1981:UNK:O	2:B:1982:UNK:CB	2.61	0.48
2:B:361:PRO:O	2:B:365:GLN:HG3	2.13	0.48
2:B:383:PRO:O	2:B:384:GLN:O	2.31	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:471:LEU:CG	2:B:472:SER:H	2.01	0.48
2:B:617:UNK:CB	2:B:649:UNK:HA	2.44	0.48
2:B:738:UNK:O	2:B:742:UNK:CB	2.62	0.48
2:B:765:UNK:O	2:B:766:UNK:C	2.62	0.48
2:B:71:LEU:HD12	2:B:76:LYS:NZ	2.26	0.48
1:D:1246:CYS:N	1:D:1328:ILE:CG2	2.77	0.48
1:D:1470:LEU:O	1:D:1474:ALA:N	2.47	0.48
1:D:1497:ALA:O	1:D:1498:GLU:C	2.52	0.48
1:D:1655:VAL:HG13	1:D:1656:VAL:N	2.27	0.48
1:D:807:LYS:HG2	1:D:861:GLN:HG3	1.95	0.48
1:D:993:PRO:HA	1:D:1681:GLU:OE1	2.13	0.48
2:E:1883:GLY:HA2	2:E:1894:GLU:CG	2.43	0.48
2:E:1887:GLU:OE2	2:E:1888:ILE:HG22	2.12	0.48
2:E:253:ALA:O	2:E:256:LEU:N	2.47	0.48
2:E:367:GLU:OE1	2:E:428:HIS:O	2.31	0.48
2:E:475:ILE:C	2:E:477:GLU:H	2.16	0.48
2:E:738:UNK:O	2:E:742:UNK:CB	2.62	0.48
2:E:797:UNK:O	2:E:799:UNK:N	2.47	0.48
3:F:3:UNK:HA	3:F:6:UNK:CB	2.44	0.48
1:G:1046:SER:O	1:G:1047:LEU:C	2.52	0.48
1:G:1082:GLU:C	1:G:1085:ASP:OD1	2.52	0.48
1:G:1320:LEU:HD12	1:G:1320:LEU:C	2.34	0.48
1:G:1519:ILE:CG1	1:G:1521:PRO:HD2	2.43	0.48
1:G:1232:TYR:CE1	1:G:1705:PRO:HD3	2.44	0.48
1:G:689:GLY:O	1:G:690:ALA:C	2.52	0.48
1:G:779:ILE:CD1	1:G:837:GLY:HA3	2.43	0.48
1:G:927:ASN:OD1	1:G:930:LEU:HB2	2.14	0.48
2:H:1061:UNK:C	2:H:1063:UNK:N	2.74	0.48
2:H:1182:UNK:O	2:H:1183:UNK:O	2.30	0.48
2:H:1709:ILE:CD1	2:H:1719:ILE:HD11	2.36	0.48
2:H:131:ILE:CD1	2:H:182:VAL:HG13	2.41	0.48
2:H:1965:UNK:O	2:H:1967:UNK:N	2.46	0.48
2:H:232:LEU:O	2:H:232:LEU:HD23	2.13	0.48
2:H:240:LEU:N	2:H:240:LEU:HD12	2.28	0.48
2:H:306:ILE:HG22	2:H:310:CYS:SG	2.53	0.48
2:H:38:ASN:HA	2:H:41:LEU:HG	1.95	0.48
2:H:373:GLY:CA	2:H:519:ASN:OD1	2.60	0.48
2:H:667:UNK:HA	2:H:690:UNK:CB	2.44	0.48
2:H:738:UNK:O	2:H:742:UNK:CB	2.62	0.48
1:A:1216:LEU:HD11	1:A:1290:LEU:CD2	2.43	0.48
1:A:1290:LEU:HB3	1:A:1291:LEU:HD13	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1291:LEU:O	1:A:1292:ILE:C	2.52	0.48
1:A:1366:SER:HB3	1:A:1579:PHE:HD1	1.79	0.48
1:A:1418:VAL:CG1	1:A:1419:PRO:HA	2.44	0.48
1:A:1448:ARG:O	1:A:1451:GLN:CB	2.61	0.48
1:A:1558:ASN:C	1:A:1560:MET:N	2.65	0.48
1:A:1641:ILE:O	1:A:1642:THR:CB	2.61	0.48
1:A:689:GLY:O	1:A:692:VAL:HB	2.13	0.48
1:A:737:PHE:CD1	1:A:748:LEU:HD22	2.48	0.48
2:B:807:UNK:N	2:B:1034:UNK:CB	2.77	0.48
2:B:1137:UNK:O	2:B:1139:UNK:N	2.47	0.48
2:B:1774:THR:HG22	2:B:1774:THR:O	2.14	0.48
2:B:345:THR:O	2:B:349:VAL:HG23	2.13	0.48
2:B:375:LYS:HG3	2:B:376:ASN:ND2	2.27	0.48
1:D:1153:ASP:CG	1:D:1157:ILE:HG23	2.33	0.48
1:D:1208:VAL:HG23	1:D:1209:ASP:N	2.27	0.48
1:D:1733:PHE:N	1:D:1733:PHE:CD1	2.82	0.48
1:D:580:UNK:O	1:D:582:UNK:N	2.45	0.48
1:D:637:UNK:O	1:D:638:UNK:CB	2.61	0.48
1:D:749:ILE:HD11	1:D:802:MET:CE	2.43	0.48
1:D:773:ALA:O	1:D:774:ILE:HB	2.13	0.48
1:D:895:THR:OG1	1:D:928:GLY:HA3	2.13	0.48
2:E:1177:UNK:O	2:E:1178:UNK:CB	2.61	0.48
2:E:1256:UNK:O	2:E:1258:UNK:N	2.47	0.48
2:E:1418:UNK:O	2:E:1420:UNK:N	2.46	0.48
2:E:1678:MET:O	2:E:1679:ASP:C	2.50	0.48
2:E:1770:LEU:O	2:E:1770:LEU:HD23	2.13	0.48
2:E:214:ASN:C	2:E:216:LEU:N	2.66	0.48
2:E:578:UNK:C	2:E:580:UNK:N	2.77	0.48
2:E:699:UNK:O	2:E:702:UNK:N	2.46	0.48
1:G:1233:GLU:O	1:G:1233:GLU:HG2	2.14	0.48
1:G:1453:VAL:O	1:G:1455:ARG:O	2.31	0.48
1:G:1306:ALA:HB2	1:G:1645:GLY:N	2.29	0.48
1:G:1734:ASN:HA	1:G:1737:ASN:O	2.13	0.48
1:G:910:THR:HG22	1:G:913:VAL:CG2	2.44	0.48
1:G:910:THR:O	1:G:911:PRO:C	2.51	0.48
1:G:937:LYS:O	1:G:940:THR:N	2.46	0.48
2:H:1056:UNK:O	2:H:1057:UNK:C	2.62	0.48
2:H:1157:UNK:CB	2:H:1164:UNK:O	2.62	0.48
2:H:1454:UNK:CB	2:H:1505:UNK:HA	2.44	0.48
2:H:1702:TYR:O	2:H:1703:GLY:O	2.32	0.48
2:H:1738:PHE:HB2	2:H:1755:ILE:HB	1.93	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:1817:SER:O	2:H:1818:LEU:C	2.51	0.48
2:H:1981:UNK:O	2:H:1982:UNK:CB	2.61	0.48
2:H:2021:UNK:O	2:H:2022:UNK:CB	2.61	0.48
2:H:321:PRO:C	2:H:323:ILE:N	2.65	0.48
2:H:540:ASP:HB2	2:H:544:LYS:CE	2.42	0.48
1:A:1067:LEU:HD23	1:A:1074:GLY:N	2.29	0.48
1:A:1208:VAL:HG23	1:A:1209:ASP:N	2.29	0.48
1:A:1286:TRP:C	1:A:1288:ASN:N	2.64	0.48
1:A:1471:LYS:O	1:A:1474:ALA:N	2.46	0.48
1:A:1541:PHE:CD2	1:A:1553:GLU:OE2	2.66	0.48
1:A:1396:MET:HG2	1:A:1676:LYS:HE2	1.96	0.48
1:A:1707:THR:HG23	1:A:1710:LEU:CG	2.43	0.48
1:A:557:UNK:O	1:A:559:UNK:N	2.46	0.48
1:A:810:LYS:O	1:A:812:ALA:N	2.46	0.48
2:B:1416:UNK:HA	2:B:1419:UNK:CB	2.44	0.48
2:B:1534:UNK:HA	2:B:1630:UNK:O	2.14	0.48
2:B:1706:ILE:O	2:B:1709:ILE:N	2.46	0.48
2:B:1733:TYR:CE1	2:B:1760:THR:HG23	2.47	0.48
2:B:265:SER:O	2:B:266:TYR:C	2.52	0.48
2:B:390:ASN:O	2:B:394:ARG:HG3	2.13	0.48
2:B:393:LEU:HD21	2:B:418:ASN:HB3	1.95	0.48
2:B:539:ASP:O	2:B:540:ASP:C	2.51	0.48
1:D:1264:ARG:C	1:D:1266:LYS:H	2.17	0.48
1:D:1208:VAL:C	1:D:1277:GLU:HG2	2.34	0.48
1:D:1378:GLU:HA	1:D:1583:HIS:C	2.34	0.48
1:D:1456:GLU:N	1:D:1459:ILE:HG13	2.29	0.48
1:D:1453:VAL:O	1:D:1457:ALA:HB2	2.14	0.48
1:D:1029:PRO:CG	1:D:1581:THR:HG23	2.43	0.48
1:D:1542:HIS:HB2	1:D:1592:MET:HE1	1.96	0.48
1:D:1615:ASP:OD1	1:D:1618:LEU:HG	2.13	0.48
1:D:1665:ILE:HD12	1:D:1669:ARG:N	2.19	0.48
1:D:1290:LEU:CA	1:D:1701:LYS:HD2	2.43	0.48
1:D:1721:ARG:O	1:D:1731:LEU:HD23	2.13	0.48
1:D:574:UNK:O	1:D:577:UNK:N	2.46	0.48
1:D:884:ILE:HG22	1:D:887:GLY:CA	2.43	0.48
1:D:929:GLY:O	1:D:930:LEU:C	2.52	0.48
2:E:1295:UNK:O	2:E:1298:UNK:N	2.47	0.48
2:E:1681:TYR:CD2	2:E:1681:TYR:C	2.86	0.48
2:E:1687:ALA:O	2:E:1690:VAL:HB	2.14	0.48
2:E:1730:ARG:C	2:E:1732:ASN:N	2.66	0.48
2:E:1753:LYS:O	2:E:1754:GLU:CB	2.62	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:1807:HIS:O	2:E:1809:LEU:N	2.47	0.48
2:E:230:TYR:C	2:E:232:LEU:N	2.66	0.48
2:E:265:SER:O	2:E:266:TYR:C	2.52	0.48
2:E:158:ALA:O	2:E:270:ALA:HA	2.14	0.48
2:E:329:GLU:C	2:E:331:ASN:N	2.67	0.48
2:E:395:LYS:O	2:E:396:ALA:CB	2.62	0.48
1:G:1106:ILE:CG2	1:G:1106:ILE:O	2.56	0.48
1:G:1190:PRO:O	1:G:1191:THR:CB	2.61	0.48
1:G:1055:TRP:CH2	1:G:1198:TYR:CD1	2.97	0.48
1:G:1223:PHE:CE1	1:G:1231:PRO:HB3	2.49	0.48
1:G:1343:PHE:C	1:G:1345:ASN:N	2.67	0.48
1:G:1345:ASN:HA	1:G:1345:ASN:HD22	1.52	0.48
1:G:1427:THR:O	1:G:1430:ARG:N	2.46	0.48
1:G:521:UNK:O	1:G:522:UNK:C	2.61	0.48
1:G:680:ILE:HD12	1:G:704:VAL:O	2.13	0.48
1:G:737:PHE:HE1	1:G:745:VAL:HA	1.78	0.48
2:H:1871:LEU:HD13	2:H:1882:THR:HG22	1.96	0.48
2:H:2004:UNK:O	2:H:2005:UNK:C	2.61	0.48
2:E:16:LEU:HG	2:H:20:LEU:HD21	1.96	0.48
2:H:259:THR:O	2:H:262:GLU:N	2.47	0.48
2:H:264:ARG:HB2	2:H:284:ALA:O	2.13	0.48
2:H:158:ALA:O	2:H:270:ALA:HA	2.14	0.48
2:H:443:LEU:HB3	2:H:449:SER:HB3	1.93	0.48
3:I:64:UNK:O	3:I:65:UNK:O	2.32	0.48
1:A:1009:LEU:CD1	1:A:1009:LEU:H	2.24	0.48
1:A:1152:VAL:C	1:A:1154:ILE:N	2.61	0.48
1:A:1308:SER:OG	1:A:1589:GLY:HA3	2.13	0.48
1:A:1320:LEU:HG	1:A:1321:SER:H	1.78	0.48
1:A:1379:ALA:O	1:A:1380:GLN:O	2.32	0.48
1:A:1313:ASP:OD2	1:A:1407:ALA:O	2.32	0.48
1:A:1703:HIS:O	1:A:1704:ALA:HB3	2.13	0.48
1:A:790:PHE:O	1:A:791:ALA:C	2.52	0.48
2:B:1283:UNK:O	2:B:1284:UNK:O	2.32	0.48
2:B:1560:UNK:O	2:B:1561:UNK:CB	2.61	0.48
2:B:1772:SER:C	2:B:1774:THR:N	2.67	0.48
2:B:186:ASP:O	2:B:188:ILE:N	2.47	0.48
2:B:479:ILE:HA	2:B:482:CYS:SG	2.53	0.48
2:B:468:LEU:HD21	2:B:479:ILE:HD11	1.95	0.48
2:B:61:VAL:C	2:B:63:LYS:H	2.17	0.48
2:B:949:UNK:C	2:B:951:UNK:N	2.76	0.48
1:D:1029:PRO:HB3	1:D:1191:THR:O	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1035:THR:O	1:D:1038:GLU:HB2	2.14	0.48
1:D:1040:GLU:O	1:D:1040:GLU:HG3	2.13	0.48
1:D:1226:SER:OG	1:D:1226:SER:O	2.31	0.48
1:D:1639:VAL:HG23	1:D:1640:SER:N	2.23	0.48
1:D:1668:ASP:O	1:D:1670:TYR:N	2.37	0.48
1:D:784:ILE:O	1:D:788:SER:HB2	2.14	0.48
1:D:854:HIS:O	1:D:855:SER:CB	2.61	0.48
1:D:865:CYS:O	1:D:866:GLY:O	2.31	0.48
1:D:901:MET:O	1:D:904:ASN:N	2.34	0.48
2:E:1458:UNK:O	2:E:1459:UNK:C	2.61	0.48
2:E:1560:UNK:O	2:E:1561:UNK:CB	2.60	0.48
2:E:1642:UNK:O	2:E:1650:UNK:O	2.32	0.48
2:E:1723:GLY:O	2:E:1724:GLU:C	2.51	0.48
2:E:368:ILE:O	2:E:368:ILE:HG23	2.13	0.48
1:G:1193:TRP:HB2	1:G:1194:ASN:H	1.38	0.48
1:G:1224:ILE:CD1	1:G:1687:PHE:HD2	2.27	0.48
1:G:1260:MET:HB3	1:G:1261:PHE:CE2	2.49	0.48
1:G:1454:THR:CG2	1:G:1455:ARG:N	2.59	0.48
1:G:839:TYR:HE1	1:G:843:LYS:CE	2.27	0.48
1:G:882:ASN:C	1:G:883:ILE:HG13	2.33	0.48
2:H:1656:UNK:O	2:H:1657:UNK:CB	2.61	0.48
2:H:1932:SER:C	2:H:1934:GLU:H	2.17	0.48
1:A:1226:SER:O	1:A:1227:GLY:C	2.50	0.48
1:A:1320:LEU:HD12	1:A:1320:LEU:C	2.34	0.48
1:A:1329:VAL:CG1	1:A:1385:GLN:N	2.75	0.48
1:A:1426:LEU:HD13	1:A:1650:GLY:HA3	1.96	0.48
1:A:703:VAL:HG13	1:A:704:VAL:N	2.29	0.48
2:B:132:MET:O	2:B:133:ALA:CB	2.62	0.48
2:B:1782:THR:O	2:B:1783:LEU:C	2.52	0.48
2:B:1792:LEU:N	2:B:1792:LEU:HD23	2.29	0.48
2:B:1785:GLU:OE1	2:B:1813:ALA:HB1	2.13	0.48
2:B:193:GLU:O	2:B:196:SER:HB3	2.14	0.48
2:B:246:LEU:HD23	2:B:279:THR:HG23	1.96	0.48
2:B:677:UNK:O	2:B:678:UNK:C	2.62	0.48
2:B:748:UNK:O	2:B:749:UNK:CB	2.61	0.48
1:D:1190:PRO:O	1:D:1191:THR:CB	2.62	0.48
1:D:1384:ILE:C	1:D:1385:GLN:HG3	2.33	0.48
1:D:1392:LEU:HD22	1:D:1392:LEU:N	2.24	0.48
1:D:1448:ARG:O	1:D:1451:GLN:CB	2.61	0.48
1:D:1569:GLY:C	1:D:1571:PRO:HD3	2.33	0.48
1:D:1569:GLY:O	1:D:1571:PRO:HD3	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1646:PHE:C	1:D:1648:GLN:N	2.66	0.48
1:D:1646:PHE:C	1:D:1648:GLN:H	2.17	0.48
2:E:1271:UNK:O	2:E:1272:UNK:C	2.61	0.48
2:E:1361:UNK:O	2:E:1362:UNK:CB	2.62	0.48
2:E:1733:TYR:OH	2:E:1761:SER:CA	2.49	0.48
2:E:1740:THR:C	2:E:1741:ILE:HG13	2.33	0.48
2:E:1830:VAL:O	2:E:1831:VAL:C	2.52	0.48
2:E:344:LEU:HD13	2:E:345:THR:N	2.20	0.48
2:E:387:TYR:O	2:E:390:ASN:N	2.46	0.48
2:E:720:UNK:C	2:E:722:UNK:N	2.75	0.48
1:G:1062:TYR:CD1	1:G:1063:HIS:N	2.62	0.48
1:G:1118:LYS:HE2	1:G:1337:GLU:CA	2.37	0.48
1:G:1216:LEU:HD13	1:G:1698:PHE:CE1	2.49	0.48
1:G:1223:PHE:O	1:G:1228:ILE:N	2.44	0.48
1:G:1108:PRO:HB3	1:G:1362:PRO:HB2	1.96	0.48
1:G:1656:VAL:CG2	1:G:1657:HIS:N	2.77	0.48
1:G:1665:ILE:O	1:G:1666:THR:HB	2.14	0.48
1:G:693:LEU:C	1:G:695:GLY:N	2.65	0.48
1:G:826:MET:HB2	1:G:868:ILE:CA	2.40	0.48
2:H:1782:THR:O	2:H:1783:LEU:C	2.51	0.48
2:H:1860:GLY:O	2:H:1861:ARG:HB2	2.14	0.48
2:H:303:LEU:HA	2:H:306:ILE:CD1	2.40	0.48
2:H:323:ILE:O	2:H:324:LEU:C	2.52	0.48
2:H:248:HIS:HE1	2:H:530:ALA:HB2	1.78	0.48
2:H:797:UNK:O	2:H:799:UNK:N	2.47	0.48
1:A:1031:GLY:N	1:A:1035:THR:HG21	2.28	0.48
1:A:1087:LYS:HE3	1:A:1089:VAL:CG1	2.44	0.48
1:A:1089:VAL:H	1:A:1093:TYR:HD2	1.62	0.48
1:A:1246:CYS:HB2	1:A:1329:VAL:O	2.14	0.48
1:A:589:UNK:O	1:A:591:UNK:N	2.46	0.48
1:A:625:UNK:O	1:A:626:UNK:C	2.60	0.48
1:A:693:LEU:C	1:A:695:GLY:N	2.63	0.48
2:B:1490:UNK:O	2:B:1491:UNK:CB	2.62	0.48
2:B:1706:ILE:HG22	2:B:1710:VAL:CG2	2.44	0.48
2:B:1715:VAL:CA	2:B:1718:THR:HG22	2.44	0.48
2:B:1723:GLY:O	2:B:1724:GLU:C	2.52	0.48
2:B:1867:SER:C	2:B:1869:GLU:N	2.67	0.48
2:B:460:TYR:HD2	2:B:465:GLY:HA3	1.78	0.48
2:B:578:UNK:O	2:B:580:UNK:N	2.47	0.48
1:D:1036:ARG:NH2	1:D:1040:GLU:OE1	2.47	0.48
1:D:1320:LEU:HD12	1:D:1320:LEU:C	2.34	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1329:VAL:HG11	1:D:1385:GLN:N	2.29	0.48
1:D:1502:ARG:HD3	1:D:1505:GLN:NE2	2.29	0.48
1:D:563:UNK:O	1:D:565:UNK:N	2.47	0.48
1:D:684:GLY:C	1:D:686:GLY:N	2.67	0.48
2:E:1014:UNK:O	2:E:1016:UNK:N	2.46	0.48
2:E:1205:UNK:CB	2:E:1212:UNK:N	2.77	0.48
2:E:131:ILE:HG12	2:E:131:ILE:O	2.14	0.48
2:E:164:GLY:O	2:E:166:THR:N	2.47	0.48
2:E:1742:VAL:HG12	2:E:1744:GLY:H	1.79	0.48
2:E:2037:UNK:O	2:E:2041:UNK:CB	2.62	0.48
2:E:253:ALA:O	2:E:255:LEU:N	2.46	0.48
2:E:273:HIS:O	2:E:276:GLY:N	2.45	0.48
2:E:41:LEU:HB3	2:E:46:GLU:N	2.20	0.48
2:E:475:ILE:O	2:E:479:ILE:HG12	2.14	0.48
2:E:87:CYS:C	2:E:90:GLU:HB3	2.33	0.48
1:G:1083:PRO:HG2	1:G:1084:VAL:N	2.27	0.48
1:G:1187:GLY:CA	1:G:1188:GLN:NE2	2.77	0.48
1:G:1329:VAL:CG1	1:G:1385:GLN:N	2.74	0.48
1:G:1513:TYR:H	1:G:1513:TYR:HD1	1.55	0.48
1:G:1544:THR:HG22	1:G:1584:PRO:HG3	1.96	0.48
1:G:1738:ILE:O	1:G:1739:GLN:CB	2.61	0.48
1:G:929:GLY:O	1:G:931:GLN:N	2.47	0.48
2:H:1334:UNK:C	2:H:1335:UNK:O	2.62	0.48
2:H:1814:ALA:HB1	2:H:1818:LEU:HD12	1.96	0.48
2:H:46:GLU:O	2:H:47:GLY:C	2.52	0.48
2:H:475:ILE:O	2:H:479:ILE:HG12	2.14	0.48
2:H:527:VAL:HG11	2:H:544:LYS:HB2	1.96	0.48
2:H:646:UNK:O	2:H:648:UNK:N	2.47	0.48
2:H:748:UNK:O	2:H:749:UNK:CB	2.62	0.48
1:A:1142:GLU:C	1:A:1144:PHE:N	2.65	0.48
1:A:1151:LYS:HG3	1:A:1175:ILE:CD1	2.44	0.48
1:A:1248:GLY:HA2	1:A:1330:GLY:HA3	1.94	0.48
1:A:707:THR:HG22	1:A:709:ARG:H	1.79	0.48
1:A:901:MET:CE	1:A:905:LEU:CD2	2.92	0.48
1:A:998:TYR:CD1	1:A:999:LYS:HG2	2.48	0.48
2:B:1055:UNK:O	2:B:1059:UNK:N	2.47	0.48
2:B:1455:UNK:O	2:B:1456:UNK:C	2.62	0.48
2:B:1687:ALA:O	2:B:1688:GLN:C	2.51	0.48
2:B:1742:VAL:HG12	2:B:1744:GLY:H	1.78	0.48
2:B:1888:ILE:O	2:B:1891:TYR:HE1	1.96	0.48
2:B:375:LYS:O	2:B:377:LEU:HD12	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:37:PHE:CD1	2:B:49:ALA:HB3	2.49	0.48
2:B:56:THR:O	2:B:59:GLU:CG	2.62	0.48
1:D:1216:LEU:HD11	1:D:1290:LEU:CD2	2.44	0.48
1:D:1243:VAL:CG1	1:D:1325:ARG:H	2.25	0.48
1:D:1493:ILE:O	1:D:1496:GLU:HB2	2.12	0.48
1:D:1615:ASP:OD1	1:D:1615:ASP:C	2.52	0.48
1:D:1665:ILE:HD12	1:D:1669:ARG:HB2	1.96	0.48
1:D:1682:LYS:HA	1:D:1685:TYR:HB3	1.96	0.48
1:D:169:UNK:O	1:D:170:UNK:CB	2.61	0.48
1:D:910:THR:HG22	1:D:913:VAL:CG2	2.43	0.48
2:E:1252:UNK:O	2:E:1253:UNK:O	2.31	0.48
2:E:1266:UNK:O	2:E:1269:UNK:N	2.47	0.48
2:E:1687:ALA:O	2:E:1688:GLN:C	2.51	0.48
2:E:1869:GLU:O	2:E:1873:TYR:N	2.47	0.48
2:E:460:TYR:HD2	2:E:465:GLY:HA3	1.79	0.48
2:E:875:UNK:O	2:E:876:UNK:CB	2.62	0.48
1:G:1025:ALA:CB	1:G:1221:GLU:HB3	2.44	0.48
1:G:1142:GLU:N	1:G:1144:PHE:HE1	2.12	0.48
1:G:1335:PHE:HE1	1:G:1340:SER:CB	2.13	0.48
1:G:1384:ILE:C	1:G:1385:GLN:HG3	2.34	0.48
1:G:1470:LEU:O	1:G:1474:ALA:N	2.47	0.48
1:G:637:UNK:O	1:G:638:UNK:CB	2.62	0.48
1:G:666:UNK:O	1:G:669:UNK:O	2.32	0.48
2:H:1058:UNK:O	2:H:1061:UNK:N	2.46	0.48
2:H:162:GLY:C	2:H:164:GLY:N	2.67	0.48
2:H:1712:ASN:O	2:H:1714:PRO:HD3	2.13	0.48
2:H:1770:LEU:O	2:H:1770:LEU:HD23	2.13	0.48
1:A:1119:LYS:O	1:A:1120:GLU:HB2	2.14	0.47
1:A:1127:VAL:HG23	1:A:1180:ARG:HB2	1.96	0.47
1:A:1241:SER:O	1:A:1243:VAL:N	2.37	0.47
1:A:1316:VAL:CG1	1:A:1317:GLU:N	2.77	0.47
1:A:1491:ARG:HG2	1:A:1491:ARG:NH1	2.29	0.47
1:A:1493:ILE:CG1	1:A:1494:HIS:N	2.77	0.47
1:A:1455:ARG:CG	1:A:1504:ALA:HB2	2.38	0.47
1:A:1558:ASN:OD1	1:A:1621:PHE:CD2	2.67	0.47
1:A:1652:GLN:CD	1:A:1653:ALA:H	2.17	0.47
1:A:1779:UNK:C	1:A:1781:UNK:N	2.76	0.47
1:A:689:GLY:O	1:A:690:ALA:C	2.53	0.47
1:A:917:CYS:HA	1:A:922:VAL:HG23	1.96	0.47
2:B:1196:UNK:O	2:B:1197:UNK:O	2.32	0.47
2:B:1215:UNK:O	2:B:1226:UNK:CB	2.62	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1730:ARG:C	2:B:1732:ASN:N	2.67	0.47
2:B:1731:GLU:HA	2:B:1735:ALA:HB3	1.97	0.47
2:B:1740:THR:C	2:B:1741:ILE:HG13	2.34	0.47
2:B:187:LEU:HA	2:B:187:LEU:HD23	1.76	0.47
2:B:432:LEU:HG	2:B:484:ILE:HB	1.96	0.47
1:D:1146:HIS:C	1:D:1148:HIS:N	2.65	0.47
1:D:1254:VAL:CG2	1:D:1255:SER:N	2.65	0.47
1:D:1302:VAL:O	1:D:1307:THR:CB	2.58	0.47
1:D:1320:LEU:HG	1:D:1321:SER:H	1.79	0.47
1:D:1538:VAL:O	1:D:1539:ALA:CB	2.62	0.47
1:D:1613:ASN:CG	1:D:1614:VAL:N	2.68	0.47
1:D:1604:ILE:CD1	1:D:1630:THR:HB	2.32	0.47
1:D:1639:VAL:CG2	1:D:1655:VAL:HG12	2.44	0.47
1:D:690:ALA:O	1:D:694:GLN:HG3	2.13	0.47
1:D:755:THR:HG22	1:D:756:GLU:N	2.28	0.47
1:D:917:CYS:HA	1:D:922:VAL:HG23	1.96	0.47
2:E:1751:ILE:HD13	2:E:1840:VAL:CG2	2.43	0.47
2:E:1806:GLY:HA3	2:E:1811:GLU:HG2	1.96	0.47
2:E:1835:GLY:O	2:E:1836:MET:C	2.52	0.47
2:E:1932:SER:C	2:E:1934:GLU:H	2.16	0.47
2:E:266:TYR:H	2:E:266:TYR:HD1	1.62	0.47
2:E:56:THR:O	2:E:59:GLU:CG	2.62	0.47
2:E:60:LEU:HD12	2:E:60:LEU:N	2.29	0.47
2:E:723:UNK:O	2:E:725:UNK:N	2.47	0.47
1:G:1039:MET:HE3	1:G:1042:PHE:O	2.14	0.47
1:G:1144:PHE:O	1:G:1147:GLN:N	2.47	0.47
1:G:1179:LEU:HG	1:G:1181:PHE:CE1	2.48	0.47
1:G:1223:PHE:CD2	1:G:1386:ILE:HD13	2.47	0.47
1:G:1208:VAL:C	1:G:1277:GLU:HG2	2.34	0.47
1:G:1302:VAL:CG2	1:G:1303:GLY:H	2.19	0.47
1:G:1373:ARG:HG2	1:G:1547:LYS:HB3	1.93	0.47
1:G:1569:GLY:O	1:G:1571:PRO:HD3	2.12	0.47
1:G:1029:PRO:CG	1:G:1581:THR:HG23	2.44	0.47
1:G:677:TYR:O	1:G:678:VAL:HG23	2.14	0.47
1:G:680:ILE:HG23	1:G:769:ILE:HG21	1.95	0.47
1:G:692:VAL:HG22	1:G:902:ALA:HB1	1.96	0.47
2:H:10:THR:O	2:H:11:LEU:HD23	2.14	0.47
2:H:1336:UNK:O	2:H:1340:UNK:CB	2.62	0.47
2:H:1378:UNK:O	2:H:1379:UNK:CB	2.62	0.47
2:H:164:GLY:O	2:H:166:THR:N	2.45	0.47
2:H:460:TYR:HD2	2:H:465:GLY:HA3	1.79	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:57:PRO:O	2:H:59:GLU:N	2.47	0.47
2:H:618:UNK:C	2:H:620:UNK:N	2.77	0.47
2:H:681:UNK:O	2:H:684:UNK:N	2.47	0.47
1:A:1051:VAL:O	1:A:1055:TRP:N	2.47	0.47
1:A:1119:LYS:HG2	1:A:1122:ILE:HG12	1.95	0.47
1:A:1265:PHE:O	1:A:1265:PHE:CG	2.67	0.47
1:A:1316:VAL:HG13	1:A:1317:GLU:N	2.29	0.47
1:A:1519:ILE:HG12	1:A:1521:PRO:HD2	1.96	0.47
1:A:1562:LYS:C	1:A:1564:LEU:N	2.67	0.47
1:A:1665:ILE:HD12	1:A:1669:ARG:HB2	1.95	0.47
1:A:170:UNK:O	1:A:171:UNK:CB	2.62	0.47
1:A:1722:VAL:HA	1:A:1731:LEU:HA	1.96	0.47
1:A:1735:SER:C	1:A:1737:ASN:H	2.16	0.47
1:A:565:UNK:C	1:A:567:UNK:N	2.74	0.47
1:A:829:ASN:HB3	1:A:832:THR:HG21	1.95	0.47
1:A:860:ASN:H	1:A:861:GLN:HE21	1.62	0.47
2:B:1335:UNK:C	2:B:1337:UNK:N	2.76	0.47
2:B:1772:SER:C	2:B:1774:THR:H	2.17	0.47
2:B:1706:ILE:CD1	2:B:1783:LEU:HD12	2.43	0.47
2:B:1809:LEU:C	2:B:1811:GLU:N	2.67	0.47
2:B:1819:ALA:O	2:B:1820:ASP:O	2.32	0.47
2:B:240:LEU:HA	2:B:243:VAL:HG21	1.94	0.47
2:B:461:ASP:HB3	2:B:463:PHE:H	1.79	0.47
2:B:56:THR:N	2:B:57:PRO:HD3	2.29	0.47
2:B:667:UNK:HA	2:B:690:UNK:CB	2.44	0.47
1:D:1028:GLY:O	1:D:1030:TRP:N	2.47	0.47
1:D:1186:ALA:HB1	1:D:1349:THR:HG21	1.95	0.47
1:D:1193:TRP:CZ2	1:D:1380:GLN:CB	2.86	0.47
1:D:1200:ILE:HG13	1:D:1201:SER:N	2.29	0.47
1:D:1641:ILE:HD11	1:D:1653:ALA:O	2.14	0.47
1:D:495:UNK:O	1:D:497:UNK:N	2.47	0.47
1:D:563:UNK:O	1:D:566:UNK:N	2.47	0.47
2:E:1058:UNK:C	2:E:1060:UNK:N	2.76	0.47
2:E:1215:UNK:O	2:E:1226:UNK:CB	2.63	0.47
2:E:1445:UNK:O	2:E:1447:UNK:N	2.47	0.47
2:E:1772:SER:C	2:E:1774:THR:N	2.68	0.47
2:E:213:LEU:HG	2:E:213:LEU:O	2.14	0.47
2:E:278:VAL:HB	2:E:303:LEU:HD21	1.97	0.47
2:E:234:ILE:HG12	2:E:307:GLY:HA2	1.96	0.47
2:E:528:ILE:CG2	2:E:529:VAL:N	2.76	0.47
1:G:1316:VAL:CG1	1:G:1317:GLU:N	2.77	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1408:ALA:O	1:G:1409:THR:CG2	2.55	0.47
1:G:1493:ILE:CG1	1:G:1494:HIS:N	2.76	0.47
1:G:1698:PHE:O	1:G:1699:VAL:HG13	2.13	0.47
1:G:523:UNK:C	1:G:525:UNK:N	2.77	0.47
1:G:622:UNK:O	1:G:626:UNK:N	2.47	0.47
1:G:680:ILE:HD11	1:G:703:VAL:CG1	2.44	0.47
1:G:610:UNK:CB	1:G:873:ARG:HH21	2.28	0.47
2:H:1678:MET:O	2:H:1679:ASP:C	2.52	0.47
2:H:1687:ALA:O	2:H:1690:VAL:HB	2.15	0.47
2:H:1718:THR:OG1	2:H:1719:ILE:N	2.46	0.47
2:H:1753:LYS:O	2:H:1754:GLU:CB	2.62	0.47
2:H:41:LEU:CD2	2:H:46:GLU:HA	2.33	0.47
1:A:1471:LYS:O	1:A:1474:ALA:CB	2.62	0.47
1:A:1378:GLU:HA	1:A:1583:HIS:C	2.33	0.47
1:A:637:UNK:O	1:A:638:UNK:CB	2.61	0.47
1:A:666:UNK:O	1:A:669:UNK:O	2.31	0.47
1:A:684:GLY:HA3	1:A:718:TYR:OH	2.14	0.47
2:B:1718:THR:OG1	2:B:1719:ILE:N	2.46	0.47
2:B:1903:ASP:O	2:B:1906:ALA:N	2.47	0.47
2:B:248:HIS:ND1	2:B:529:VAL:HG11	2.29	0.47
2:B:737:UNK:C	2:B:739:UNK:N	2.75	0.47
2:B:928:UNK:O	2:B:930:UNK:N	2.47	0.47
1:D:1082:GLU:C	1:D:1085:ASP:OD1	2.53	0.47
1:D:1304:ALA:O	1:D:1305:CYS:HB3	2.14	0.47
1:D:1625:LEU:O	1:D:1626:TYR:HB3	2.13	0.47
1:D:1640:SER:CB	1:D:1654:ILE:HB	2.42	0.47
1:D:1698:PHE:O	1:D:1699:VAL:HG13	2.14	0.47
1:D:527:UNK:C	1:D:529:UNK:N	2.75	0.47
1:D:647:UNK:O	1:D:648:UNK:O	2.32	0.47
1:D:864:VAL:CG1	1:D:865:CYS:H	2.26	0.47
1:D:904:ASN:HB3	1:D:926:LEU:HD13	1.96	0.47
1:D:957:VAL:O	1:D:958:SER:C	2.51	0.47
2:E:1246:UNK:O	2:E:1247:UNK:C	2.62	0.47
2:E:1476:UNK:HA	2:E:1486:UNK:CB	2.43	0.47
2:E:149:VAL:HG21	2:E:156:LEU:HB2	1.95	0.47
2:E:1764:PHE:HD1	2:E:1776:PHE:CE1	2.32	0.47
1:G:1139:GLU:OE2	1:G:1166:LYS:O	2.32	0.47
1:G:1151:LYS:O	1:G:1152:VAL:O	2.31	0.47
1:G:1127:VAL:CG2	1:G:1180:ARG:HG3	2.44	0.47
1:G:1290:LEU:HB3	1:G:1291:LEU:HD13	1.96	0.47
1:G:1288:ASN:C	1:G:1290:LEU:H	2.16	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1379:ALA:O	1:G:1380:GLN:C	2.53	0.47
1:G:1538:VAL:O	1:G:1539:ALA:CB	2.63	0.47
1:G:1652:GLN:CD	1:G:1653:ALA:N	2.68	0.47
1:G:170:UNK:O	1:G:171:UNK:CB	2.62	0.47
1:G:824:LEU:O	1:G:826:MET:HG2	2.15	0.47
1:G:957:VAL:O	1:G:958:SER:C	2.53	0.47
2:H:1177:UNK:O	2:H:1178:UNK:CB	2.61	0.47
2:H:1304:UNK:O	2:H:1305:UNK:O	2.32	0.47
2:H:149:VAL:HG21	2:H:156:LEU:HB2	1.95	0.47
2:H:1753:LYS:O	2:H:1754:GLU:HB3	2.15	0.47
2:H:1774:THR:O	2:H:1774:THR:HG22	2.14	0.47
2:H:408:PRO:O	2:H:409:PHE:C	2.53	0.47
2:H:61:VAL:C	2:H:63:LYS:H	2.17	0.47
2:H:67:TYR:O	2:H:69:SER:N	2.46	0.47
1:A:1055:TRP:CH2	1:A:1198:TYR:CD1	3.00	0.47
1:A:1103:ILE:O	1:A:1106:ILE:HG13	2.14	0.47
1:A:1160:THR:HG23	1:A:1160:THR:O	2.14	0.47
1:A:1328:ILE:CG1	1:A:1328:ILE:O	2.61	0.47
1:A:1189:ILE:HG23	1:A:1377:MET:CE	2.44	0.47
1:A:1706:TYR:HD1	1:A:1706:TYR:N	2.10	0.47
1:A:782:GLU:O	1:A:784:ILE:HG22	2.14	0.47
2:B:1045:UNK:C	2:B:1047:UNK:N	2.78	0.47
2:B:1587:UNK:O	2:B:1588:UNK:C	2.61	0.47
2:B:160:PHE:CZ	2:B:283:ILE:HD12	2.49	0.47
2:B:161:GLY:CA	2:B:512:LEU:HD12	2.45	0.47
2:B:1752:PHE:O	2:B:1755:ILE:HD11	2.14	0.47
2:B:234:ILE:CD1	2:B:310:CYS:HB2	2.44	0.47
2:B:158:ALA:O	2:B:270:ALA:HA	2.14	0.47
2:B:272:GLY:HA3	2:B:276:GLY:C	2.35	0.47
2:B:527:VAL:HG11	2:B:544:LYS:HB2	1.97	0.47
1:D:1010:GLU:OE1	1:D:1013:LEU:HD11	2.15	0.47
1:D:1094:GLU:O	1:D:1095:THR:C	2.51	0.47
1:D:1100:HIS:C	1:D:1102:GLY:N	2.66	0.47
1:D:1142:GLU:C	1:D:1144:PHE:N	2.65	0.47
1:D:1208:VAL:HA	1:D:1277:GLU:OE1	2.14	0.47
1:D:1290:LEU:HA	1:D:1701:LYS:CD	2.45	0.47
1:D:1308:SER:OG	1:D:1590:ALA:N	2.38	0.47
1:D:1108:PRO:HB3	1:D:1362:PRO:HB2	1.96	0.47
1:D:426:UNK:O	1:D:427:UNK:C	2.62	0.47
1:D:917:CYS:SG	1:D:922:VAL:HG21	2.55	0.47
2:E:1248:UNK:O	2:E:1250:UNK:N	2.47	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:1519:UNK:O	2:E:1521:UNK:N	2.48	0.47
2:E:1702:TYR:O	2:E:1703:GLY:O	2.33	0.47
2:E:1792:LEU:HA	2:E:1797:LEU:CD1	2.45	0.47
2:E:1860:GLY:O	2:E:1861:ARG:HB2	2.13	0.47
2:E:1888:ILE:O	2:E:1891:TYR:HE1	1.98	0.47
2:E:1901:ALA:HA	2:E:1905:ARG:HH21	1.79	0.47
2:E:1965:UNK:O	2:E:1967:UNK:N	2.47	0.47
2:E:18:HIS:C	2:E:20:LEU:H	2.18	0.47
2:E:234:ILE:CD1	2:E:307:GLY:HA2	2.44	0.47
2:E:248:HIS:CG	2:E:529:VAL:HG11	2.49	0.47
2:E:56:THR:O	2:E:59:GLU:HG2	2.14	0.47
1:G:1328:ILE:O	1:G:1328:ILE:HG12	2.13	0.47
1:G:1528:THR:HG23	1:G:1528:THR:O	2.14	0.47
1:G:1625:LEU:HD11	1:G:1626:TYR:HD1	1.79	0.47
1:G:677:TYR:O	1:G:678:VAL:CG2	2.62	0.47
1:G:854:HIS:O	1:G:855:SER:OG	2.27	0.47
1:G:860:ASN:H	1:G:861:GLN:HE21	1.62	0.47
2:H:1455:UNK:O	2:H:1456:UNK:C	2.62	0.47
2:H:1555:UNK:O	2:H:1556:UNK:C	2.62	0.47
2:H:1716:ASN:C	2:H:1718:THR:H	2.17	0.47
2:H:2037:UNK:O	2:H:2041:UNK:CB	2.62	0.47
2:H:208:VAL:HG12	2:H:208:VAL:O	2.13	0.47
2:H:234:ILE:CD1	2:H:307:GLY:HA2	2.45	0.47
2:H:19:VAL:O	2:H:23:PRO:HD3	2.14	0.47
2:H:266:TYR:HD1	2:H:266:TYR:H	1.62	0.47
2:H:375:LYS:HG3	2:H:376:ASN:ND2	2.30	0.47
2:H:442:ASP:HA	2:H:445:LYS:HD2	1.97	0.47
1:A:1142:GLU:CA	1:A:1145:LYS:HB2	2.44	0.47
1:A:1029:PRO:HB3	1:A:1191:THR:O	2.14	0.47
1:A:1353:LEU:HA	1:A:1356:PHE:HB3	1.97	0.47
1:A:1349:THR:O	1:A:1376:PHE:N	2.47	0.47
1:A:1599:ILE:HG13	1:A:1600:LEU:HD13	1.96	0.47
1:A:1625:LEU:O	1:A:1626:TYR:HB3	2.14	0.47
1:A:1734:ASN:HA	1:A:1737:ASN:O	2.14	0.47
1:A:389:UNK:C	1:A:391:UNK:N	2.76	0.47
1:A:809:GLN:O	1:A:812:ALA:HB3	2.14	0.47
2:B:1266:UNK:O	2:B:1269:UNK:N	2.47	0.47
2:B:1454:UNK:CB	2:B:1505:UNK:HA	2.45	0.47
2:B:1756:ASN:O	2:B:1757:GLU:C	2.52	0.47
2:B:1860:GLY:O	2:B:1861:ARG:CB	2.62	0.47
2:B:1871:LEU:HD13	2:B:1882:THR:HG22	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:18:HIS:C	2:B:20:LEU:H	2.18	0.47
2:B:246:LEU:CD2	2:B:279:THR:HG23	2.44	0.47
2:B:278:VAL:HB	2:B:303:LEU:HD21	1.96	0.47
2:B:402:LEU:HD13	2:B:405:SER:OG	2.14	0.47
2:B:41:LEU:HD22	2:B:46:GLU:C	2.33	0.47
2:B:431:LEU:HD23	2:B:431:LEU:H	1.77	0.47
2:B:373:GLY:CA	2:B:519:ASN:OD1	2.61	0.47
1:D:1151:LYS:CG	1:D:1175:ILE:CD1	2.92	0.47
1:D:1445:MET:O	1:D:1446:LYS:C	2.52	0.47
1:D:1544:THR:O	1:D:1545:SER:HB3	2.14	0.47
1:D:1408:ALA:CB	1:D:1651:GLY:C	2.79	0.47
1:D:377:UNK:O	1:D:380:UNK:CB	2.61	0.47
1:D:677:TYR:O	1:D:678:VAL:CG2	2.63	0.47
1:D:930:LEU:C	1:D:932:PHE:H	2.17	0.47
2:E:1328:UNK:O	2:E:1329:UNK:C	2.61	0.47
2:E:1454:UNK:CB	2:E:1505:UNK:HA	2.45	0.47
2:E:1551:UNK:O	2:E:1553:UNK:N	2.48	0.47
2:E:162:GLY:C	2:E:164:GLY:N	2.66	0.47
2:E:1672:GLN:HB3	2:E:1781:LEU:HD11	1.97	0.47
2:E:1867:SER:C	2:E:1869:GLU:N	2.66	0.47
2:E:2029:UNK:C	2:E:2031:UNK:N	2.76	0.47
2:E:259:THR:O	2:E:262:GLU:N	2.48	0.47
2:E:461:ASP:HB3	2:E:463:PHE:H	1.79	0.47
2:E:494:THR:O	2:E:495:GLN:C	2.53	0.47
2:E:660:UNK:C	2:E:662:UNK:N	2.77	0.47
2:E:692:UNK:N	2:E:716:UNK:CB	2.77	0.47
2:E:922:UNK:O	2:E:924:UNK:N	2.47	0.47
1:G:1036:ARG:HE	1:G:1037:TRP:CA	2.27	0.47
1:G:1396:MET:HG2	1:G:1676:LYS:HE2	1.95	0.47
1:G:1448:ARG:O	1:G:1451:GLN:CB	2.62	0.47
1:G:1578:LYS:HE3	1:G:1584:PRO:CB	2.44	0.47
1:G:1396:MET:HG2	1:G:1676:LYS:CE	2.44	0.47
1:G:869:ILE:HG23	1:G:926:LEU:CB	2.36	0.47
2:H:1252:UNK:O	2:H:1253:UNK:O	2.33	0.47
2:H:1606:UNK:O	2:H:1608:UNK:N	2.48	0.47
2:H:1633:UNK:O	2:H:1634:UNK:CB	2.62	0.47
2:H:1753:LYS:HG3	2:H:1754:GLU:N	2.29	0.47
2:H:429:SER:HB2	2:H:431:LEU:HD23	1.97	0.47
2:H:467:ASP:OD1	2:H:467:ASP:O	2.31	0.47
2:H:972:UNK:C	2:H:974:UNK:N	2.75	0.47
3:I:60:UNK:O	3:I:61:UNK:C	2.61	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1035:THR:CG2	1:A:1053:MET:SD	2.99	0.47
1:A:1107:GLU:CD	1:A:1108:PRO:CD	2.81	0.47
1:A:1169:LYS:CG	1:A:1170:GLY:H	2.22	0.47
1:A:1127:VAL:CG2	1:A:1180:ARG:HG3	2.45	0.47
1:A:1106:ILE:HA	1:A:1192:GLY:CA	2.42	0.47
1:A:1200:ILE:HG13	1:A:1201:SER:N	2.30	0.47
1:A:1223:PHE:O	1:A:1228:ILE:N	2.44	0.47
1:A:1274:ILE:HG23	1:A:1275:LEU:N	2.29	0.47
1:A:1303:GLY:HA3	1:A:1649:LYS:HD2	1.89	0.47
1:A:1656:VAL:CG2	1:A:1657:HIS:N	2.77	0.47
1:A:1394:LEU:HD23	1:A:1673:TYR:CD1	2.50	0.47
1:A:779:ILE:CD1	1:A:837:GLY:HA3	2.45	0.47
1:A:839:TYR:CE1	1:A:843:LYS:CE	2.98	0.47
2:B:1314:UNK:O	2:B:1315:UNK:CB	2.63	0.47
2:B:1329:UNK:O	2:B:1333:UNK:N	2.47	0.47
2:B:1716:ASN:C	2:B:1718:THR:H	2.18	0.47
2:B:1809:LEU:C	2:B:1811:GLU:H	2.18	0.47
2:B:131:ILE:CD1	2:B:182:VAL:HG13	2.42	0.47
2:B:1995:UNK:C	2:B:1996:UNK:O	2.62	0.47
2:B:215:ILE:O	2:B:215:ILE:HG22	2.14	0.47
2:B:395:LYS:O	2:B:396:ALA:CB	2.62	0.47
1:D:1156:GLU:HG2	1:D:1169:LYS:C	2.35	0.47
1:D:1179:LEU:HG	1:D:1181:PHE:CE1	2.50	0.47
1:D:1308:SER:OG	1:D:1589:GLY:HA3	2.15	0.47
1:D:1583:HIS:HE2	1:D:1588:ALA:HA	1.80	0.47
1:D:1554:SER:CB	1:D:1623:TYR:OH	2.61	0.47
1:D:1701:LYS:O	1:D:1702:GLU:O	2.32	0.47
1:D:666:UNK:O	1:D:669:UNK:O	2.32	0.47
1:D:745:VAL:O	1:D:747:ALA:N	2.48	0.47
2:E:1056:UNK:O	2:E:1057:UNK:C	2.62	0.47
2:E:1557:UNK:O	2:E:1560:UNK:N	2.47	0.47
2:E:1606:UNK:O	2:E:1608:UNK:N	2.48	0.47
2:E:1678:MET:CA	2:E:1678:MET:HE2	2.44	0.47
2:E:1718:THR:OG1	2:E:1719:ILE:N	2.47	0.47
2:E:1764:PHE:O	2:E:1765:ARG:CB	2.61	0.47
2:E:213:LEU:O	2:E:215:ILE:N	2.43	0.47
2:E:361:PRO:O	2:E:365:GLN:HG3	2.14	0.47
2:E:271:THR:HG23	2:E:460:TYR:O	2.15	0.47
2:E:467:ASP:OD1	2:E:467:ASP:O	2.32	0.47
2:E:539:ASP:O	2:E:540:ASP:C	2.51	0.47
2:E:765:UNK:O	2:E:766:UNK:C	2.63	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:972:UNK:C	2:E:974:UNK:N	2.74	0.47
3:F:24:UNK:C	3:F:26:UNK:N	2.75	0.47
3:F:64:UNK:O	3:F:65:UNK:O	2.31	0.47
1:G:1176:PRO:C	1:G:1177:LYS:HG3	2.35	0.47
1:G:1189:ILE:HG21	1:G:1377:MET:CB	2.09	0.47
1:G:1325:ARG:O	1:G:1326:ILE:HB	2.15	0.47
1:G:1418:VAL:CG1	1:G:1419:PRO:HA	2.44	0.47
1:G:1661:LEU:O	1:G:1661:LEU:CD2	2.58	0.47
1:G:1659:ASP:CA	1:G:1662:TYR:HD2	2.22	0.47
1:G:1733:PHE:CD1	1:G:1733:PHE:N	2.82	0.47
1:G:378:UNK:C	1:G:380:UNK:N	2.75	0.47
1:G:446:UNK:CB	1:G:1619:GLU:OE2	2.62	0.47
1:G:711:SER:C	1:G:713:GLN:N	2.66	0.47
1:G:773:ALA:O	1:G:774:ILE:HB	2.13	0.47
2:H:106:ALA:C	2:H:108:LEU:H	2.18	0.47
2:H:1638:UNK:N	2:H:1655:UNK:O	2.47	0.47
2:H:173:LEU:HD23	2:H:173:LEU:C	2.34	0.47
2:H:1792:LEU:HA	2:H:1797:LEU:CD1	2.44	0.47
2:H:272:GLY:HA3	2:H:276:GLY:C	2.35	0.47
2:H:273:HIS:O	2:H:276:GLY:N	2.46	0.47
2:H:408:PRO:CG	2:H:409:PHE:H	2.26	0.47
2:H:41:LEU:N	2:H:42:PRO:CD	2.76	0.47
1:A:1067:LEU:CD2	1:A:1074:GLY:H	2.27	0.47
1:A:1191:THR:OG1	1:A:1192:GLY:N	2.47	0.47
1:A:1379:ALA:N	1:A:1583:HIS:HB3	2.17	0.47
1:A:1418:VAL:HG11	1:A:1647:GLY:N	2.29	0.47
1:A:396:UNK:O	1:A:398:UNK:N	2.47	0.47
1:A:743:GLN:O	1:A:744:ASP:C	2.53	0.47
1:A:877:LEU:O	1:A:878:MET:CB	2.47	0.47
2:B:1632:UNK:O	2:B:1633:UNK:CB	2.63	0.47
2:B:1814:ALA:HB1	2:B:1818:LEU:HD12	1.95	0.47
2:B:1965:UNK:O	2:B:1967:UNK:N	2.48	0.47
2:B:70:SER:O	2:B:76:LYS:HB2	2.15	0.47
3:C:35:UNK:C	3:C:37:UNK:N	2.77	0.47
1:D:1089:VAL:H	1:D:1093:TYR:HD2	1.62	0.47
1:D:1194:ASN:O	1:D:1195:ALA:CB	2.63	0.47
1:D:1288:ASN:C	1:D:1290:LEU:N	2.68	0.47
1:D:1379:ALA:O	1:D:1380:GLN:C	2.50	0.47
1:D:1487:LEU:HA	1:D:1490:THR:CG2	2.45	0.47
1:D:1459:ILE:HG22	1:D:1500:GLN:OE1	2.14	0.47
1:D:1605:ILE:CG1	1:D:1606:PRO:HA	2.43	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:389:UNK:C	1:D:391:UNK:N	2.75	0.47
1:D:396:UNK:O	1:D:398:UNK:N	2.47	0.47
1:D:752:ILE:O	1:D:761:LEU:O	2.32	0.47
1:D:910:THR:O	1:D:911:PRO:C	2.50	0.47
2:E:10:THR:O	2:E:11:LEU:HD23	2.15	0.47
2:E:1357:UNK:CB	2:E:1406:UNK:N	2.78	0.47
2:E:163:GLN:HB3	2:E:423:VAL:CG2	2.44	0.47
2:E:1656:UNK:O	2:E:1657:UNK:CB	2.63	0.47
2:E:1698:PHE:O	2:E:1700:ASP:N	2.48	0.47
2:E:1706:ILE:O	2:E:1707:LEU:C	2.52	0.47
2:E:1752:PHE:O	2:E:1755:ILE:HD11	2.15	0.47
2:E:272:GLY:HA3	2:E:276:GLY:C	2.34	0.47
2:E:56:THR:N	2:E:57:PRO:HD3	2.29	0.47
2:E:595:UNK:O	2:E:596:UNK:CB	2.62	0.47
1:G:1131:LEU:O	1:G:1173:LEU:HD13	2.14	0.47
1:G:1197:THR:O	1:G:1197:THR:HG23	2.14	0.47
1:G:1450:ARG:NH1	1:G:1450:ARG:HG3	2.26	0.47
1:G:1433:HIS:HD2	1:G:1519:ILE:HG12	1.80	0.47
1:G:796:LEU:O	1:G:799:ILE:HB	2.14	0.47
2:H:41:LEU:HD22	2:H:46:GLU:C	2.35	0.47
2:H:49:ALA:N	2:H:118:LYS:HZ2	2.12	0.47
2:H:595:UNK:O	2:H:596:UNK:CB	2.62	0.47
1:A:1144:PHE:O	1:A:1147:GLN:N	2.48	0.47
1:A:1254:VAL:CG2	1:A:1255:SER:H	2.08	0.47
1:A:1413:LYS:HD2	1:A:1425:ILE:HD12	1.97	0.47
1:A:1528:THR:HG23	1:A:1528:THR:O	2.14	0.47
1:A:1553:GLU:C	1:A:1555:ALA:N	2.67	0.47
1:A:1578:LYS:HE3	1:A:1584:PRO:CB	2.43	0.47
1:A:910:THR:HG22	1:A:913:VAL:CG2	2.44	0.47
2:B:1361:UNK:O	2:B:1362:UNK:CB	2.60	0.47
2:B:1764:PHE:HD1	2:B:1776:PHE:CE1	2.32	0.47
2:B:1869:GLU:O	2:B:1873:TYR:N	2.47	0.47
2:B:1878:VAL:CG1	2:B:1898:TYR:HE1	2.28	0.47
2:B:1878:VAL:HG23	2:B:1879:GLY:N	2.26	0.47
2:B:1898:TYR:CD2	2:B:1936:VAL:HG23	2.49	0.47
2:B:367:GLU:HB2	2:B:430:HIS:ND1	2.30	0.47
2:B:408:PRO:CA	2:B:412:ARG:HB2	2.44	0.47
2:B:408:PRO:O	2:B:409:PHE:C	2.53	0.47
2:B:467:ASP:O	2:B:467:ASP:OD1	2.33	0.47
2:B:517:HIS:CD2	2:B:526:ARG:HH21	2.32	0.47
2:B:917:UNK:O	2:B:919:UNK:N	2.48	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1067:LEU:HD23	1:D:1074:GLY:N	2.29	0.47
1:D:1107:GLU:OE1	1:D:1190:PRO:HA	2.15	0.47
1:D:1233:GLU:O	1:D:1233:GLU:HG2	2.15	0.47
1:D:1275:LEU:C	1:D:1275:LEU:HD13	2.34	0.47
1:D:1308:SER:HB2	1:D:1590:ALA:CB	2.44	0.47
1:D:1339:GLY:O	1:D:1340:SER:C	2.51	0.47
1:D:1367:ARG:NH1	1:D:1372:THR:HG21	2.30	0.47
1:D:1413:LYS:HD2	1:D:1425:ILE:HD12	1.96	0.47
1:D:1544:THR:HG22	1:D:1584:PRO:HG3	1.96	0.47
1:D:388:UNK:O	1:D:391:UNK:N	2.47	0.47
1:D:404:UNK:O	1:D:407:UNK:N	2.48	0.47
1:D:430:UNK:C	1:D:431:UNK:O	2.62	0.47
1:D:670:UNK:O	1:D:671:VAL:HG23	2.15	0.47
1:D:689:GLY:O	1:D:692:VAL:HB	2.15	0.47
1:D:785:ASP:O	1:D:786:SER:OG	2.26	0.47
1:D:860:ASN:H	1:D:861:GLN:HE21	1.61	0.47
1:D:909:LEU:HG	1:D:909:LEU:O	2.15	0.47
1:D:998:TYR:CD1	1:D:999:LYS:HG2	2.49	0.47
2:E:1196:UNK:O	2:E:1197:UNK:O	2.32	0.47
2:E:1314:UNK:O	2:E:1315:UNK:CB	2.62	0.47
2:E:1445:UNK:C	2:E:1447:UNK:N	2.78	0.47
2:E:261:GLY:HA2	2:E:264:ARG:CG	2.44	0.47
2:E:408:PRO:O	2:E:409:PHE:C	2.53	0.47
2:E:562:UNK:O	2:E:563:UNK:C	2.63	0.47
1:G:1456:GLU:N	1:G:1459:ILE:HG13	2.30	0.47
1:G:1430:ARG:NH1	1:G:1652:GLN:HG3	2.29	0.47
1:G:1405:ALA:CB	1:G:1654:ILE:O	2.55	0.47
1:G:430:UNK:C	1:G:431:UNK:O	2.60	0.47
1:G:449:UNK:O	1:G:451:UNK:N	2.48	0.47
1:G:541:UNK:C	1:G:543:UNK:N	2.77	0.47
1:G:718:TYR:H	1:G:718:TYR:HD1	1.63	0.47
1:G:910:THR:CG2	1:G:913:VAL:CG2	2.93	0.47
1:G:937:LYS:O	1:G:939:PHE:N	2.47	0.47
2:H:1742:VAL:HG12	2:H:1744:GLY:H	1.80	0.47
2:H:186:ASP:O	2:H:188:ILE:N	2.48	0.47
2:H:230:TYR:C	2:H:232:LEU:H	2.17	0.47
2:H:234:ILE:HG12	2:H:307:GLY:HA2	1.97	0.47
2:H:274:SER:C	2:H:276:GLY:H	2.17	0.47
2:H:402:LEU:HD13	2:H:405:SER:OG	2.15	0.47
2:H:568:UNK:C	2:H:570:UNK:N	2.77	0.47
1:A:1082:GLU:C	1:A:1085:ASP:OD1	2.53	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1151:LYS:CE	1:A:1175:ILE:HD13	2.41	0.47
1:A:1197:THR:O	1:A:1197:THR:HG23	2.15	0.47
1:A:1513:TYR:HD1	1:A:1513:TYR:H	1.57	0.47
1:A:1528:THR:C	1:A:1529:TYR:CD1	2.88	0.47
1:A:1782:UNK:C	1:A:1784:UNK:N	2.72	0.47
1:A:718:TYR:H	1:A:718:TYR:HD1	1.63	0.47
1:A:694:GLN:HB3	1:A:725:TYR:CE2	2.49	0.47
1:A:910:THR:CG2	1:A:913:VAL:CG2	2.93	0.47
2:B:1177:UNK:O	2:B:1178:UNK:CB	2.63	0.47
2:B:1256:UNK:O	2:B:1258:UNK:N	2.48	0.47
2:B:1260:UNK:O	2:B:1261:UNK:C	2.62	0.47
2:B:1334:UNK:C	2:B:1335:UNK:O	2.62	0.47
2:B:1698:PHE:O	2:B:1700:ASP:N	2.47	0.47
2:B:1731:GLU:HA	2:B:1735:ALA:CB	2.45	0.47
2:B:1932:SER:C	2:B:1934:GLU:H	2.16	0.47
2:B:1972:UNK:C	2:B:1974:UNK:N	2.76	0.47
2:B:197:GLU:C	2:B:199:ILE:N	2.66	0.47
2:B:462:THR:HG21	2:B:482:CYS:O	2.15	0.47
1:D:1000:GLN:C	1:D:1002:LYS:H	2.16	0.47
1:D:1039:MET:HE3	1:D:1042:PHE:O	2.14	0.47
1:D:1046:SER:O	1:D:1047:LEU:C	2.53	0.47
1:D:1065:GLY:C	1:D:1067:LEU:N	2.62	0.47
1:D:1142:GLU:N	1:D:1144:PHE:HE1	2.12	0.47
1:D:1302:VAL:CG2	1:D:1303:GLY:H	2.17	0.47
1:D:1398:VAL:CG1	1:D:1399:PRO:HA	2.20	0.47
1:D:401:UNK:C	1:D:403:UNK:N	2.77	0.47
1:D:717:TYR:CD2	1:D:718:TYR:CE1	2.98	0.47
1:D:824:LEU:O	1:D:826:MET:HG2	2.15	0.47
1:D:937:LYS:O	1:D:939:PHE:N	2.48	0.47
2:E:1455:UNK:O	2:E:1456:UNK:C	2.62	0.47
2:E:234:ILE:CG1	2:E:307:GLY:HA2	2.45	0.47
2:E:41:LEU:HD22	2:E:46:GLU:C	2.34	0.47
2:E:61:VAL:C	2:E:63:LYS:H	2.16	0.47
3:F:53:UNK:O	3:F:56:UNK:N	2.48	0.47
1:G:1139:GLU:HG2	1:G:1140:THR:H	1.79	0.47
1:G:1142:GLU:C	1:G:1144:PHE:N	2.66	0.47
1:G:1208:VAL:CG2	1:G:1212:THR:HB	2.44	0.47
1:G:1316:VAL:HG13	1:G:1317:GLU:N	2.29	0.47
1:G:1329:VAL:CG1	1:G:1330:GLY:N	2.64	0.47
1:G:1396:MET:O	1:G:1397:GLY:O	2.33	0.47
1:G:1615:ASP:OD1	1:G:1618:LEU:HG	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1711:GLU:O	1:G:1712:GLU:C	2.53	0.47
1:G:1721:ARG:O	1:G:1731:LEU:HD23	2.15	0.47
1:G:624:UNK:O	1:G:625:UNK:C	2.63	0.47
1:G:631:UNK:O	1:G:632:UNK:C	2.61	0.47
1:G:790:PHE:O	1:G:791:ALA:C	2.53	0.47
1:G:935:GLU:O	1:G:937:LYS:N	2.48	0.47
2:H:807:UNK:N	2:H:1034:UNK:CB	2.78	0.47
2:H:1058:UNK:HA	2:H:1061:UNK:CB	2.45	0.47
2:H:1162:UNK:C	2:H:1164:UNK:N	2.77	0.47
2:H:1534:UNK:HA	2:H:1630:UNK:O	2.15	0.47
2:H:1672:GLN:HB3	2:H:1781:LEU:HD11	1.96	0.47
2:H:1715:VAL:HA	2:H:1718:THR:CG2	2.44	0.47
2:H:18:HIS:C	2:H:20:LEU:H	2.18	0.47
2:H:60:LEU:HD12	2:H:60:LEU:N	2.29	0.47
2:H:922:UNK:O	2:H:924:UNK:N	2.48	0.47
1:A:1025:ALA:CB	1:A:1221:GLU:HB3	2.44	0.47
1:A:1308:SER:HB2	1:A:1590:ALA:CB	2.42	0.47
1:A:1423:LYS:CB	1:A:1552:ASN:ND2	2.70	0.47
1:A:1504:ALA:O	1:A:1505:GLN:C	2.53	0.47
1:A:1565:GLY:O	1:A:1566:ARG:O	2.33	0.47
1:A:444:UNK:CB	1:A:1613:ASN:OD1	2.62	0.47
1:A:1302:VAL:CG2	1:A:1649:LYS:HE3	2.36	0.47
1:A:1740:SER:O	1:A:1742:ASP:N	2.48	0.47
1:A:719:GLN:OE1	1:A:1611:ALA:HB1	2.15	0.47
1:A:745:VAL:O	1:A:747:ALA:N	2.48	0.47
1:A:913:VAL:O	1:A:916:LEU:HB3	2.15	0.47
2:B:1482:UNK:O	2:B:1483:UNK:CB	2.63	0.47
2:B:1753:LYS:HG3	2:B:1754:GLU:N	2.30	0.47
2:B:38:ASN:C	2:B:38:ASN:OD1	2.52	0.47
2:B:51:ASP:O	2:B:52:ASP:C	2.53	0.47
2:B:56:THR:O	2:B:59:GLU:HG2	2.15	0.47
2:B:606:UNK:O	2:B:607:UNK:CB	2.63	0.47
2:B:647:UNK:HA	2:B:650:UNK:CB	2.44	0.47
2:B:649:UNK:C	2:B:651:UNK:N	2.77	0.47
2:B:652:UNK:O	2:B:653:UNK:CB	2.63	0.47
2:B:681:UNK:O	2:B:684:UNK:N	2.48	0.47
2:B:926:UNK:O	2:B:927:UNK:C	2.63	0.47
3:C:53:UNK:O	3:C:56:UNK:N	2.48	0.47
3:C:59:UNK:O	3:C:60:UNK:C	2.62	0.47
1:D:1062:TYR:HB2	1:D:1077:ASP:HA	1.96	0.47
1:D:1087:LYS:HE3	1:D:1089:VAL:CG1	2.45	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1087:LYS:O	1:D:1088:ASP:HB2	2.15	0.47
1:D:1237:TYR:OH	1:D:1396:MET:CB	2.63	0.47
1:D:1258:ARG:HH11	1:D:1258:ARG:CG	2.26	0.47
1:D:1321:SER:O	1:D:1323:LYS:N	2.43	0.47
1:D:1366:SER:HB3	1:D:1579:PHE:HD1	1.79	0.47
1:D:1661:LEU:O	1:D:1661:LEU:CD2	2.59	0.47
1:D:1681:GLU:O	1:D:1682:LYS:CB	2.63	0.47
2:E:1157:UNK:CB	2:E:1164:UNK:O	2.62	0.47
2:E:199:ILE:CG2	2:E:200:ARG:H	2.18	0.47
2:E:38:ASN:HA	2:E:41:LEU:HG	1.97	0.47
2:E:46:GLU:O	2:E:47:GLY:C	2.52	0.47
2:E:742:UNK:O	2:E:745:UNK:N	2.48	0.47
2:E:748:UNK:O	2:E:749:UNK:CB	2.62	0.47
1:G:1031:GLY:N	1:G:1035:THR:HG21	2.30	0.47
1:G:1112:ASN:ND2	1:G:1119:LYS:HA	2.30	0.47
1:G:1289:MET:H	1:G:1289:MET:HG2	1.52	0.47
1:G:1487:LEU:HA	1:G:1490:THR:CG2	2.45	0.47
1:G:1665:ILE:HG22	1:G:1667:GLU:H	1.80	0.47
1:G:917:CYS:HA	1:G:922:VAL:HG23	1.96	0.47
2:H:1205:UNK:CB	2:H:1212:UNK:N	2.77	0.47
2:H:1329:UNK:O	2:H:1333:UNK:N	2.47	0.47
2:H:1445:UNK:O	2:H:1448:UNK:N	2.47	0.47
2:H:1730:ARG:C	2:H:1732:ASN:N	2.66	0.47
2:H:1830:VAL:O	2:H:1831:VAL:C	2.52	0.47
2:H:253:ALA:O	2:H:255:LEU:N	2.48	0.47
2:H:278:VAL:HB	2:H:303:LEU:HD21	1.97	0.47
2:H:38:ASN:OD1	2:H:38:ASN:C	2.54	0.47
2:H:395:LYS:O	2:H:396:ALA:CB	2.63	0.47
1:A:1010:GLU:OE1	1:A:1013:LEU:HD11	2.15	0.47
1:A:1036:ARG:HH21	1:A:1040:GLU:CB	2.27	0.47
1:A:1087:LYS:O	1:A:1088:ASP:HB2	2.15	0.47
1:A:1141:ALA:HA	1:A:1144:PHE:CD1	2.50	0.47
1:A:1221:GLU:HA	1:A:1224:ILE:CG2	2.45	0.47
1:A:1264:ARG:C	1:A:1266:LYS:H	2.17	0.47
1:A:1682:LYS:HA	1:A:1685:TYR:HB3	1.97	0.47
1:A:796:LEU:HA	1:A:799:ILE:HD12	1.97	0.47
1:A:824:LEU:HD13	1:A:846:LEU:HD22	1.97	0.47
1:A:833:PHE:H	1:A:833:PHE:HD1	1.63	0.47
2:B:1151:UNK:C	2:B:1153:UNK:N	2.78	0.47
2:B:1295:UNK:O	2:B:1298:UNK:N	2.48	0.47
2:B:1698:PHE:CE1	2:B:1828:VAL:HG21	2.48	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1877:ARG:HB3	2:B:1929:LYS:HZ3	1.79	0.47
2:B:253:ALA:O	2:B:256:LEU:N	2.47	0.47
2:B:475:ILE:O	2:B:479:ILE:HG12	2.14	0.47
2:B:618:UNK:C	2:B:620:UNK:N	2.76	0.47
2:B:898:UNK:C	2:B:900:UNK:N	2.77	0.47
1:D:1067:LEU:HD21	1:D:1073:THR:C	2.36	0.47
1:D:1232:TYR:HE1	1:D:1705:PRO:CD	2.26	0.47
1:D:1254:VAL:C	1:D:1256:ALA:N	2.50	0.47
1:D:1258:ARG:HG2	1:D:1258:ARG:NH1	2.27	0.47
1:D:1741:LYS:HZ1	1:D:1744:TYR:HD2	1.63	0.47
1:D:779:ILE:CD1	1:D:837:GLY:HA3	2.45	0.47
2:E:1332:UNK:O	2:E:1333:UNK:C	2.63	0.47
2:E:1672:GLN:HB2	2:E:1676:MET:HE1	1.97	0.47
2:E:2019:UNK:O	2:E:2020:UNK:C	2.63	0.47
2:E:2033:UNK:C	2:E:2035:UNK:N	2.73	0.47
2:E:19:VAL:O	2:E:23:PRO:HD3	2.15	0.47
2:E:347:GLU:HA	2:E:350:GLN:HB3	1.96	0.47
2:E:390:ASN:O	2:E:393:LEU:HB3	2.14	0.47
2:E:408:PRO:CA	2:E:412:ARG:HB2	2.45	0.47
2:E:974:UNK:O	2:E:978:UNK:N	2.48	0.47
1:G:1190:PRO:O	1:G:1191:THR:CG2	2.63	0.47
1:G:1475:GLU:O	1:G:1478:PRO:CD	2.63	0.47
1:G:1550:ASP:O	1:G:1551:LYS:O	2.32	0.47
1:G:670:UNK:O	1:G:671:VAL:HG23	2.15	0.47
1:G:873:ARG:HG3	1:G:874:GLY:N	2.28	0.47
1:G:929:GLY:O	1:G:930:LEU:C	2.53	0.47
2:H:1055:UNK:O	2:H:1059:UNK:N	2.47	0.47
2:H:1861:ARG:O	2:H:1862:VAL:HB	2.14	0.47
2:H:1879:GLY:O	2:H:1880:LYS:HB3	2.13	0.47
2:H:241:ILE:HA	2:H:244:ILE:HD12	1.97	0.47
2:H:253:ALA:O	2:H:254:LYS:C	2.52	0.47
2:H:597:UNK:C	2:H:599:UNK:N	2.78	0.47
2:H:652:UNK:O	2:H:653:UNK:CB	2.62	0.47
3:I:53:UNK:O	3:I:56:UNK:N	2.48	0.47
1:A:1107:GLU:OE1	1:A:1190:PRO:HA	2.15	0.46
1:A:1379:ALA:O	1:A:1380:GLN:C	2.52	0.46
1:A:1475:GLU:O	1:A:1478:PRO:CD	2.63	0.46
1:A:1544:THR:HG22	1:A:1584:PRO:HG3	1.96	0.46
1:A:1735:SER:O	1:A:1737:ASN:N	2.48	0.46
1:A:679:LEU:HD21	1:A:802:MET:CE	2.40	0.46
1:A:711:SER:O	1:A:714:VAL:N	2.49	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:753:TYR:CG	1:A:809:GLN:HG2	2.50	0.46
1:A:758:ASN:ND2	1:A:758:ASN:N	2.63	0.46
1:A:752:ILE:O	1:A:761:LEU:O	2.33	0.46
1:A:903:PHE:C	1:A:906:LEU:HB3	2.36	0.46
1:A:917:CYS:SG	1:A:922:VAL:HG21	2.55	0.46
1:A:988:ILE:O	1:A:990:LEU:N	2.48	0.46
2:B:1266:UNK:O	2:B:1267:UNK:C	2.62	0.46
2:B:1445:UNK:C	2:B:1447:UNK:N	2.77	0.46
2:B:1445:UNK:O	2:B:1447:UNK:N	2.48	0.46
2:B:1960:UNK:O	2:B:1961:UNK:C	2.62	0.46
2:B:261:GLY:HA2	2:B:264:ARG:NE	2.29	0.46
1:D:1156:GLU:CG	1:D:1169:LYS:HA	2.45	0.46
1:D:1351:ASN:C	1:D:1352:THR:O	2.49	0.46
1:D:1353:LEU:HA	1:D:1356:PHE:HB3	1.97	0.46
1:D:1329:VAL:CG1	1:D:1385:GLN:O	2.63	0.46
1:D:1471:LYS:O	1:D:1474:ALA:CB	2.63	0.46
1:D:1609:ARG:CD	1:D:1611:ALA:HB3	2.45	0.46
1:D:1748:UNK:C	1:D:1750:UNK:N	2.78	0.46
1:D:455:UNK:O	1:D:458:UNK:N	2.49	0.46
1:D:737:PHE:CZ	1:D:739:GLN:HA	2.50	0.46
1:D:753:TYR:CG	1:D:809:GLN:HG2	2.51	0.46
2:E:1672:GLN:HB2	2:E:1676:MET:HE3	1.97	0.46
2:E:1972:UNK:O	2:E:1973:UNK:C	2.63	0.46
2:E:1995:UNK:C	2:E:1996:UNK:O	2.63	0.46
2:E:41:LEU:N	2:E:42:PRO:CD	2.77	0.46
1:G:1040:GLU:O	1:G:1040:GLU:HG3	2.15	0.46
1:G:1219:VAL:HG13	1:G:1220:VAL:N	2.30	0.46
1:G:1636:VAL:O	1:G:1637:ARG:CB	2.62	0.46
1:G:1741:LYS:O	1:G:1743:SER:N	2.46	0.46
1:G:388:UNK:O	1:G:391:UNK:N	2.48	0.46
1:G:705:VAL:CG2	1:G:732:LEU:HD11	2.46	0.46
2:H:1248:UNK:O	2:H:1250:UNK:N	2.47	0.46
2:H:148:ALA:O	2:H:150:GLY:N	2.48	0.46
2:H:1614:UNK:CB	2:H:1649:UNK:O	2.63	0.46
2:H:1871:LEU:HD13	2:H:1882:THR:CG2	2.44	0.46
2:H:259:THR:H	2:H:262:GLU:HB2	1.80	0.46
2:H:272:GLY:HA3	2:H:277:LEU:HA	1.97	0.46
2:H:346:GLN:O	2:H:347:GLU:HB3	2.15	0.46
2:H:361:PRO:O	2:H:365:GLN:HG3	2.15	0.46
2:H:379:VAL:HG12	2:H:380:SER:N	2.30	0.46
2:H:408:PRO:CA	2:H:412:ARG:HB2	2.44	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:248:HIS:CG	2:H:529:VAL:HG11	2.49	0.46
2:H:606:UNK:O	2:H:607:UNK:CB	2.63	0.46
3:I:3:UNK:HA	3:I:6:UNK:CB	2.45	0.46
1:A:1139:GLU:HG2	1:A:1140:THR:N	2.29	0.46
1:A:1423:LYS:HA	1:A:1552:ASN:OD1	2.14	0.46
1:A:169:UNK:O	1:A:170:UNK:CB	2.61	0.46
1:A:1748:UNK:C	1:A:1750:UNK:N	2.77	0.46
1:A:563:UNK:O	1:A:565:UNK:N	2.48	0.46
1:A:893:VAL:O	1:A:895:THR:N	2.38	0.46
1:A:895:THR:OG1	1:A:928:GLY:HA3	2.15	0.46
2:B:60:LEU:HD11	2:B:121:GLU:OE2	2.15	0.46
2:B:122:LEU:O	2:B:125:ASN:HB2	2.15	0.46
2:B:1332:UNK:O	2:B:1333:UNK:C	2.63	0.46
2:B:1656:UNK:O	2:B:1657:UNK:CB	2.62	0.46
2:B:1737:ILE:HD13	2:B:1738:PHE:N	2.30	0.46
2:B:1807:HIS:O	2:B:1809:LEU:N	2.49	0.46
2:B:1806:GLY:HA3	2:B:1811:GLU:HG2	1.96	0.46
2:B:1782:THR:HG21	2:B:1831:VAL:HG21	1.95	0.46
2:B:2037:UNK:O	2:B:2041:UNK:CB	2.63	0.46
2:B:240:LEU:HD12	2:B:240:LEU:N	2.29	0.46
2:B:38:ASN:HA	2:B:41:LEU:HG	1.96	0.46
2:B:577:UNK:C	2:B:579:UNK:N	2.74	0.46
2:B:4:TYR:HD1	2:B:5:SER:N	2.14	0.46
2:B:813:UNK:C	2:B:815:UNK:N	2.76	0.46
2:B:862:UNK:O	2:B:863:UNK:C	2.63	0.46
1:D:1454:THR:CG2	1:D:1455:ARG:N	2.61	0.46
1:D:460:UNK:O	1:D:462:UNK:N	2.48	0.46
1:D:790:PHE:O	1:D:791:ALA:C	2.52	0.46
1:D:929:GLY:C	1:D:931:GLN:N	2.67	0.46
2:E:1162:UNK:C	2:E:1164:UNK:N	2.78	0.46
2:E:1260:UNK:O	2:E:1261:UNK:C	2.63	0.46
2:E:1342:UNK:C	2:E:1344:UNK:N	2.77	0.46
2:E:1419:UNK:C	2:E:1421:UNK:N	2.77	0.46
2:E:1753:LYS:O	2:E:1754:GLU:HB3	2.15	0.46
2:E:1809:LEU:C	2:E:1811:GLU:N	2.68	0.46
2:E:255:LEU:C	2:E:257:GLY:H	2.18	0.46
2:E:432:LEU:HG	2:E:484:ILE:HB	1.97	0.46
1:G:1246:CYS:H	1:G:1328:ILE:CG2	2.28	0.46
1:G:1286:TRP:HD1	1:G:1290:LEU:HD11	1.79	0.46
1:G:1323:LYS:O	1:G:1324:ALA:CB	2.63	0.46
1:G:1378:GLU:HA	1:G:1583:HIS:C	2.36	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1491:ARG:NH1	1:G:1491:ARG:HG2	2.29	0.46
1:G:1423:LYS:HA	1:G:1552:ASN:OD1	2.16	0.46
1:G:643:UNK:C	1:G:645:UNK:N	2.78	0.46
1:G:684:GLY:C	1:G:686:GLY:N	2.67	0.46
1:G:714:VAL:O	1:G:716:ASP:N	2.48	0.46
1:G:796:LEU:HA	1:G:799:ILE:HD12	1.97	0.46
2:H:1151:UNK:C	2:H:1153:UNK:N	2.78	0.46
2:H:1445:UNK:O	2:H:1447:UNK:N	2.48	0.46
2:H:158:ALA:C	2:H:159:ILE:HG13	2.35	0.46
2:H:1869:GLU:O	2:H:1873:TYR:N	2.48	0.46
2:H:213:LEU:HG	2:H:213:LEU:O	2.16	0.46
2:H:462:THR:HG21	2:H:482:CYS:O	2.15	0.46
2:H:796:UNK:O	2:H:797:UNK:O	2.34	0.46
1:A:1151:LYS:HD2	1:A:1151:LYS:N	2.27	0.46
1:A:1229:THR:O	1:A:1230:ASP:HB3	2.14	0.46
1:A:1208:VAL:C	1:A:1277:GLU:HG2	2.35	0.46
1:A:1351:ASN:C	1:A:1352:THR:O	2.47	0.46
1:A:1456:GLU:N	1:A:1459:ILE:HG13	2.28	0.46
1:A:1476:GLU:O	1:A:1477:ILE:CG1	2.55	0.46
1:A:1615:ASP:OD1	1:A:1618:LEU:HG	2.16	0.46
1:A:1618:LEU:HD22	1:A:1623:TYR:CZ	2.50	0.46
1:A:631:UNK:O	1:A:632:UNK:C	2.64	0.46
1:A:662:UNK:O	1:A:663:UNK:C	2.62	0.46
1:A:797:THR:CA	1:A:800:LEU:HD23	2.45	0.46
2:B:10:THR:O	2:B:11:LEU:HD23	2.14	0.46
2:B:163:GLN:HB3	2:B:423:VAL:CG2	2.42	0.46
2:B:1673:GLU:O	2:B:1674:GLN:C	2.54	0.46
2:B:1778:GLN:OE1	2:B:1834:ARG:HD2	2.15	0.46
2:B:227:ASP:HB3	2:B:228:LYS:H	1.59	0.46
2:B:41:LEU:HB3	2:B:46:GLU:N	2.19	0.46
2:B:489:LYS:O	2:B:490:TRP:C	2.53	0.46
2:B:595:UNK:O	2:B:596:UNK:CB	2.63	0.46
2:B:681:UNK:O	2:B:682:UNK:C	2.63	0.46
2:B:915:UNK:C	2:B:917:UNK:N	2.78	0.46
1:D:1213:LEU:O	1:D:1214:PHE:C	2.53	0.46
1:D:1223:PHE:O	1:D:1228:ILE:N	2.45	0.46
1:D:1396:MET:O	1:D:1397:GLY:O	2.33	0.46
1:D:1478:PRO:O	1:D:1479:SER:HB3	2.15	0.46
1:D:1366:SER:O	1:D:1579:PHE:CD1	2.68	0.46
1:D:927:ASN:OD1	1:D:930:LEU:HB2	2.15	0.46
2:E:1329:UNK:O	2:E:1333:UNK:N	2.49	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:1715:VAL:HA	2:E:1718:THR:HG22	1.97	0.46
2:E:1863:ALA:O	2:E:1864:ALA:HB3	2.15	0.46
2:E:186:ASP:O	2:E:188:ILE:N	2.48	0.46
2:E:2004:UNK:O	2:E:2005:UNK:C	2.62	0.46
2:E:2028:UNK:O	2:E:2029:UNK:C	2.63	0.46
2:E:393:LEU:HG	2:E:418:ASN:OD1	2.15	0.46
3:F:29:UNK:O	3:F:30:UNK:C	2.63	0.46
1:G:1030:TRP:N	1:G:1030:TRP:CD1	2.82	0.46
1:G:1087:LYS:HE3	1:G:1089:VAL:HG13	1.97	0.46
1:G:1215:VAL:HG23	1:G:1216:LEU:N	2.30	0.46
1:G:1354:GLU:O	1:G:1358:HIS:N	2.42	0.46
1:G:1476:GLU:O	1:G:1477:ILE:CG1	2.57	0.46
1:G:1615:ASP:CG	1:G:1617:ILE:HG12	2.36	0.46
1:G:1605:ILE:CG1	1:G:1628:SER:HB3	2.44	0.46
1:G:495:UNK:O	1:G:497:UNK:N	2.49	0.46
1:G:602:UNK:O	1:G:603:UNK:O	2.34	0.46
2:H:1256:UNK:C	2:H:1258:UNK:N	2.78	0.46
2:H:1462:UNK:C	2:H:1464:UNK:N	2.79	0.46
2:H:1557:UNK:O	2:H:1560:UNK:N	2.48	0.46
2:H:163:GLN:HB3	2:H:423:VAL:CG2	2.42	0.46
2:H:1750:LYS:O	2:H:1751:ILE:C	2.53	0.46
2:H:1764:PHE:HD1	2:H:1776:PHE:CE1	2.33	0.46
2:H:1960:UNK:O	2:H:1961:UNK:C	2.62	0.46
2:H:246:LEU:CD2	2:H:279:THR:HG23	2.45	0.46
2:H:416:PHE:HB3	2:H:418:ASN:HD21	1.80	0.46
2:H:517:HIS:O	2:H:518:ARG:C	2.52	0.46
2:H:738:UNK:O	2:H:739:UNK:C	2.63	0.46
2:H:846:UNK:C	2:H:848:UNK:N	2.78	0.46
2:H:917:UNK:O	2:H:919:UNK:N	2.49	0.46
1:A:1020:VAL:CG1	1:A:1021:VAL:N	2.79	0.46
1:A:1091:ALA:C	1:A:1093:TYR:N	2.66	0.46
1:A:1028:GLY:C	1:A:1193:TRP:HE1	2.19	0.46
1:A:1246:CYS:H	1:A:1328:ILE:CG2	2.28	0.46
1:A:1328:ILE:HG12	1:A:1328:ILE:O	2.15	0.46
1:A:1418:VAL:HA	1:A:1419:PRO:C	2.29	0.46
1:A:1447:TYR:HB3	1:A:1448:ARG:H	1.44	0.46
1:A:1491:ARG:O	1:A:1494:HIS:HB3	2.15	0.46
1:A:1605:ILE:CG1	1:A:1628:SER:HB3	2.43	0.46
1:A:1714:VAL:HG13	1:A:1731:LEU:HD22	1.97	0.46
1:A:643:UNK:C	1:A:645:UNK:N	2.77	0.46
1:A:773:ALA:O	1:A:774:ILE:HB	2.14	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:873:ARG:HD2	1:A:882:ASN:HA	1.98	0.46
2:B:1157:UNK:CB	2:B:1164:UNK:O	2.63	0.46
2:B:131:ILE:HG12	2:B:131:ILE:O	2.15	0.46
2:B:1972:UNK:O	2:B:1973:UNK:C	2.62	0.46
2:B:213:LEU:HG	2:B:213:LEU:O	2.15	0.46
2:B:330:ASN:OD1	2:B:394:ARG:HG2	2.16	0.46
2:B:342:SER:OG	2:B:343:ASN:N	2.48	0.46
2:B:738:UNK:O	2:B:739:UNK:C	2.63	0.46
2:B:742:UNK:O	2:B:745:UNK:N	2.49	0.46
2:B:846:UNK:C	2:B:848:UNK:N	2.79	0.46
1:D:1083:PRO:C	1:D:1085:ASP:H	2.19	0.46
1:D:1128:GLU:HA	1:D:1177:LYS:CA	2.44	0.46
1:D:1128:GLU:CB	1:D:1177:LYS:HG2	2.46	0.46
1:D:1427:THR:O	1:D:1430:ARG:N	2.49	0.46
1:D:1539:ALA:O	1:D:1575:VAL:HG23	2.15	0.46
1:D:796:LEU:O	1:D:799:ILE:HB	2.15	0.46
2:E:106:ALA:C	2:E:108:LEU:H	2.19	0.46
2:E:148:ALA:O	2:E:150:GLY:N	2.49	0.46
2:E:241:ILE:CG2	2:E:275:GLN:NE2	2.64	0.46
2:E:157:VAL:HG21	2:E:498:ALA:HB2	1.98	0.46
1:G:1083:PRO:C	1:G:1085:ASP:H	2.18	0.46
1:G:1208:VAL:HG23	1:G:1209:ASP:N	2.30	0.46
1:G:1495:ASN:O	1:G:1496:GLU:C	2.51	0.46
1:G:1640:SER:CB	1:G:1654:ILE:HB	2.45	0.46
1:G:632:UNK:CB	1:G:894:ARG:NH1	2.75	0.46
1:G:710:PHE:HD1	1:G:736:PRO:HB3	1.74	0.46
1:G:737:PHE:CZ	1:G:739:GLN:HA	2.50	0.46
1:G:796:LEU:HD12	1:G:800:LEU:HD21	1.97	0.46
1:G:813:ARG:HG3	1:G:813:ARG:HH11	1.81	0.46
2:H:1419:UNK:C	2:H:1421:UNK:N	2.78	0.46
2:H:1476:UNK:HA	2:H:1486:UNK:CB	2.45	0.46
2:H:1772:SER:C	2:H:1774:THR:N	2.69	0.46
2:H:1809:LEU:C	2:H:1811:GLU:H	2.19	0.46
2:H:1825:GLU:HB2	2:H:1826:SER:H	1.52	0.46
2:H:1903:ASP:OD1	2:H:1904:LEU:N	2.49	0.46
2:H:347:GLU:HA	2:H:350:GLN:HB3	1.97	0.46
2:H:452:ALA:C	2:H:454:ASP:H	2.19	0.46
2:H:539:ASP:O	2:H:540:ASP:C	2.53	0.46
2:H:562:UNK:O	2:H:563:UNK:C	2.64	0.46
1:A:1146:HIS:C	1:A:1148:HIS:N	2.65	0.46
1:A:1179:LEU:HG	1:A:1181:PHE:CE1	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1198:TYR:CE2	1:A:1217:VAL:CG1	2.99	0.46
1:A:1515:ARG:O	1:A:1516:ASP:C	2.54	0.46
1:A:1519:ILE:CG1	1:A:1521:PRO:HD2	2.46	0.46
1:A:1597:LEU:HD23	1:A:1597:LEU:N	2.30	0.46
1:A:534:UNK:HA	1:A:537:UNK:CB	2.45	0.46
2:B:1418:UNK:O	2:B:1420:UNK:N	2.48	0.46
1:A:949:GLU:OE2	2:B:1440:UNK:CB	2.63	0.46
2:B:1716:ASN:O	2:B:1765:ARG:HB2	2.16	0.46
2:B:1871:LEU:HD13	2:B:1882:THR:CG2	2.45	0.46
2:B:1901:ALA:HA	2:B:1905:ARG:HH21	1.80	0.46
2:B:329:GLU:C	2:B:331:ASN:N	2.66	0.46
2:B:526:ARG:CD	2:B:526:ARG:N	2.69	0.46
2:B:540:ASP:HB2	2:B:544:LYS:CE	2.45	0.46
1:D:1291:LEU:O	1:D:1292:ILE:C	2.53	0.46
1:D:1301:PRO:HB3	1:D:1314:ILE:CD1	2.46	0.46
1:D:1328:ILE:HG12	1:D:1328:ILE:O	2.15	0.46
1:D:1418:VAL:CG1	1:D:1419:PRO:HA	2.44	0.46
1:D:1471:LYS:O	1:D:1474:ALA:N	2.48	0.46
1:D:1492:GLU:O	1:D:1496:GLU:OE1	2.33	0.46
1:D:662:UNK:O	1:D:663:UNK:C	2.63	0.46
1:D:714:VAL:O	1:D:716:ASP:N	2.49	0.46
2:E:1673:GLU:O	2:E:1674:GLN:C	2.54	0.46
2:E:1716:ASN:C	2:E:1718:THR:H	2.18	0.46
2:E:1731:GLU:HA	2:E:1735:ALA:CB	2.45	0.46
2:E:1860:GLY:O	2:E:1861:ARG:CB	2.63	0.46
2:E:227:ASP:HB3	2:E:229:ASP:H	1.81	0.46
2:E:246:LEU:HD23	2:E:279:THR:HG23	1.97	0.46
2:E:330:ASN:O	2:E:330:ASN:ND2	2.48	0.46
2:E:383:PRO:O	2:E:384:GLN:O	2.33	0.46
2:E:373:GLY:CA	2:E:519:ASN:OD1	2.59	0.46
2:E:79:GLN:HB3	2:E:80:PHE:CD1	2.50	0.46
2:E:898:UNK:C	2:E:900:UNK:N	2.79	0.46
2:E:923:UNK:C	2:E:927:UNK:CB	2.93	0.46
1:G:1106:ILE:HA	1:G:1192:GLY:CA	2.45	0.46
1:G:1246:CYS:HB2	1:G:1329:VAL:O	2.16	0.46
1:G:1308:SER:OG	1:G:1590:ALA:N	2.38	0.46
1:G:1459:ILE:HG22	1:G:1500:GLN:OE1	2.15	0.46
1:G:1525:ALA:O	1:G:1527:ALA:N	2.49	0.46
1:G:1606:PRO:O	1:G:1626:TYR:C	2.54	0.46
1:G:1681:GLU:O	1:G:1682:LYS:CB	2.63	0.46
1:G:458:UNK:CB	1:G:1631:LEU:HG	2.46	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:871:TRP:CZ2	1:G:881:ASN:HB2	2.50	0.46
1:G:970:GLY:O	1:G:971:ASN:CB	2.64	0.46
2:H:1857:ILE:HG22	2:H:1858:ASN:N	2.31	0.46
2:H:187:LEU:HA	2:H:187:LEU:HD23	1.74	0.46
2:H:253:ALA:O	2:H:256:LEU:N	2.48	0.46
2:H:329:GLU:C	2:H:331:ASN:N	2.67	0.46
1:A:1119:LYS:CE	1:A:1121:MET:HG3	2.45	0.46
1:A:1190:PRO:O	1:A:1191:THR:CB	2.64	0.46
1:A:1260:MET:HB3	1:A:1261:PHE:CE2	2.51	0.46
1:A:1303:GLY:O	1:A:1304:ALA:C	2.54	0.46
1:A:1466:GLU:O	1:A:1469:ALA:N	2.49	0.46
1:A:1562:LYS:O	1:A:1564:LEU:N	2.48	0.46
1:A:1721:ARG:O	1:A:1731:LEU:HD23	2.16	0.46
1:A:485:UNK:O	1:A:487:UNK:N	2.48	0.46
1:A:556:UNK:C	1:A:558:UNK:N	2.77	0.46
1:A:691:GLU:OE2	1:A:900:GLU:HG2	2.15	0.46
1:A:858:TRP:CZ3	1:A:862:LEU:HB2	2.51	0.46
1:A:927:ASN:OD1	1:A:930:LEU:HB2	2.15	0.46
2:B:1205:UNK:CB	2:B:1212:UNK:N	2.79	0.46
2:B:1419:UNK:C	2:B:1421:UNK:N	2.76	0.46
2:B:1705:SER:O	2:B:1708:ASP:HB3	2.15	0.46
2:B:168:ASP:CB	2:B:171:GLU:HB2	2.30	0.46
2:B:1855:ILE:CG2	2:B:1951:UNK:HA	2.43	0.46
2:B:494:THR:O	2:B:495:GLN:C	2.53	0.46
1:D:1031:GLY:N	1:D:1035:THR:HG21	2.29	0.46
1:D:1299:LYS:CE	1:D:1323:LYS:HZ1	2.28	0.46
1:D:1418:VAL:HG11	1:D:1647:GLY:H	1.81	0.46
1:D:1373:ARG:HG2	1:D:1547:LYS:HB3	1.97	0.46
1:D:1700:SER:HA	1:D:1701:LYS:CE	2.46	0.46
1:D:1711:GLU:O	1:D:1712:GLU:C	2.53	0.46
1:D:1486:LEU:HD12	1:D:1754:UNK:O	2.16	0.46
1:D:693:LEU:O	1:D:695:GLY:N	2.49	0.46
1:D:745:VAL:O	1:D:746:GLU:C	2.54	0.46
1:D:610:UNK:CB	1:D:873:ARG:HH21	2.28	0.46
2:E:1151:UNK:C	2:E:1153:UNK:N	2.78	0.46
2:E:14:GLY:HA3	2:E:18:HIS:CG	2.50	0.46
2:E:1678:MET:CE	2:E:1678:MET:HA	2.36	0.46
2:E:1809:LEU:C	2:E:1811:GLU:H	2.18	0.46
2:E:1903:ASP:O	2:E:1906:ALA:N	2.47	0.46
2:E:323:ILE:O	2:E:324:LEU:C	2.51	0.46
2:E:525:VAL:O	2:E:526:ARG:C	2.54	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:56:THR:HG22	2:E:56:THR:O	2.15	0.46
1:G:1151:LYS:CG	1:G:1175:ILE:CD1	2.94	0.46
1:G:1127:VAL:HG23	1:G:1180:ARG:HB2	1.97	0.46
1:G:1222:ALA:O	1:G:1225:ALA:N	2.36	0.46
1:G:1487:LEU:HA	1:G:1490:THR:HG21	1.97	0.46
1:G:1302:VAL:CG2	1:G:1649:LYS:HE3	2.39	0.46
1:G:527:UNK:C	1:G:529:UNK:N	2.73	0.46
1:G:677:TYR:C	1:G:678:VAL:HG23	2.36	0.46
1:G:758:ASN:N	1:G:758:ASN:ND2	2.63	0.46
2:H:1757:GLU:HB2	2:H:1758:HIS:H	1.54	0.46
2:H:184:VAL:O	2:H:185:GLY:C	2.54	0.46
2:H:214:ASN:C	2:H:216:LEU:N	2.67	0.46
2:H:511:GLY:C	2:H:513:GLY:H	2.17	0.46
2:H:528:ILE:CG2	2:H:529:VAL:N	2.77	0.46
2:H:79:GLN:HB3	2:H:80:PHE:CD1	2.50	0.46
3:I:29:UNK:O	3:I:30:UNK:C	2.63	0.46
1:A:1208:VAL:CG2	1:A:1212:THR:HB	2.46	0.46
1:A:1540:SER:OG	1:A:1592:MET:HB3	2.15	0.46
1:A:1613:ASN:CG	1:A:1614:VAL:N	2.68	0.46
1:A:426:UNK:O	1:A:427:UNK:C	2.64	0.46
1:A:677:TYR:O	1:A:678:VAL:CG2	2.64	0.46
1:A:695:GLY:O	1:A:696:LEU:C	2.53	0.46
1:A:705:VAL:CG2	1:A:732:LEU:HD11	2.46	0.46
1:A:710:PHE:CE1	1:A:736:PRO:HB3	2.51	0.46
1:A:901:MET:O	1:A:902:ALA:C	2.54	0.46
1:A:990:LEU:O	1:A:991:ASP:O	2.34	0.46
2:B:1038:UNK:C	2:B:1040:UNK:N	2.78	0.46
2:B:1379:UNK:CA	2:B:1426:UNK:HA	2.38	0.46
2:B:13:HIS:O	2:B:15:SER:N	2.48	0.46
2:B:1606:UNK:O	2:B:1608:UNK:N	2.49	0.46
2:B:1806:GLY:HA3	2:B:1811:GLU:CA	2.44	0.46
2:B:59:GLU:OE1	2:B:122:LEU:CA	2.62	0.46
3:C:53:UNK:O	3:C:55:UNK:N	2.49	0.46
1:D:1456:GLU:N	1:D:1459:ILE:CG1	2.69	0.46
1:D:378:UNK:C	1:D:380:UNK:N	2.74	0.46
1:D:620:UNK:O	1:D:621:UNK:C	2.63	0.46
1:D:717:TYR:CD2	1:D:718:TYR:CD1	3.02	0.46
1:D:758:ASN:ND2	1:D:758:ASN:N	2.62	0.46
1:D:864:VAL:CG1	1:D:865:CYS:N	2.76	0.46
1:D:901:MET:CE	1:D:905:LEU:CD2	2.94	0.46
1:D:910:THR:CG2	1:D:913:VAL:CG2	2.93	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:1715:VAL:HA	2:E:1718:THR:CG2	2.46	0.46
2:E:1734:SER:O	2:E:1735:ALA:C	2.54	0.46
2:E:1754:GLU:O	2:E:1756:ASN:N	2.48	0.46
2:E:240:LEU:N	2:E:240:LEU:HD12	2.31	0.46
2:E:681:UNK:O	2:E:682:UNK:C	2.63	0.46
1:G:1091:ALA:C	1:G:1093:TYR:N	2.66	0.46
1:G:1119:LYS:CE	1:G:1121:MET:HB2	2.38	0.46
1:G:1291:LEU:O	1:G:1292:ILE:C	2.53	0.46
1:G:1376:PHE:O	1:G:1377:MET:CG	2.64	0.46
1:G:1418:VAL:HG11	1:G:1647:GLY:H	1.80	0.46
1:G:1515:ARG:O	1:G:1516:ASP:C	2.53	0.46
1:G:1430:ARG:HH12	1:G:1652:GLN:HG3	1.81	0.46
1:G:1682:LYS:HA	1:G:1685:TYR:HB3	1.98	0.46
1:G:1707:THR:HG23	1:G:1710:LEU:CG	2.44	0.46
1:G:565:UNK:O	1:G:569:UNK:N	2.48	0.46
1:G:710:PHE:CE1	1:G:736:PRO:HB3	2.50	0.46
1:G:743:GLN:O	1:G:744:ASP:C	2.54	0.46
1:G:745:VAL:O	1:G:746:GLU:C	2.52	0.46
1:G:784:ILE:O	1:G:788:SER:HB2	2.16	0.46
2:H:1058:UNK:C	2:H:1060:UNK:N	2.76	0.46
2:H:11:LEU:O	2:H:12:SER:C	2.54	0.46
2:H:1445:UNK:C	2:H:1447:UNK:N	2.78	0.46
2:H:1731:GLU:HA	2:H:1735:ALA:CB	2.46	0.46
2:H:1806:GLY:HA3	2:H:1811:GLU:CA	2.42	0.46
2:H:1863:ALA:HA	2:H:1866:PHE:CG	2.51	0.46
2:H:1:MET:HE3	2:H:19:VAL:HG13	1.97	0.46
2:H:2028:UNK:O	2:H:2029:UNK:C	2.63	0.46
2:H:70:SER:O	2:H:76:LYS:HB2	2.16	0.46
1:A:1062:TYR:HB2	1:A:1077:ASP:HA	1.96	0.46
1:A:1393:ALA:HB1	1:A:1398:VAL:HG11	1.98	0.46
1:A:1445:MET:O	1:A:1446:LYS:C	2.54	0.46
1:A:1504:ALA:O	1:A:1506:GLN:N	2.49	0.46
1:A:1584:PRO:HG2	1:A:1584:PRO:O	2.15	0.46
1:A:1224:ILE:CD1	1:A:1687:PHE:HD2	2.28	0.46
1:A:776:GLU:OE2	1:A:838:MET:N	2.49	0.46
1:A:798:ASN:O	1:A:799:ILE:C	2.53	0.46
2:B:1445:UNK:O	2:B:1448:UNK:N	2.49	0.46
2:B:1754:GLU:O	2:B:1756:ASN:N	2.49	0.46
2:B:209:PHE:O	2:B:210:THR:C	2.54	0.46
2:B:279:THR:HG22	2:B:283:ILE:HD12	1.96	0.46
2:B:259:THR:HG22	2:B:288:SER:HA	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:387:TYR:O	2:B:390:ASN:N	2.49	0.46
2:B:45:THR:CG2	2:B:46:GLU:OE1	2.64	0.46
2:B:660:UNK:C	2:B:662:UNK:N	2.78	0.46
2:B:880:UNK:CB	2:B:989:UNK:O	2.64	0.46
1:D:1246:CYS:HB3	1:D:1328:ILE:CG2	2.26	0.46
1:D:1329:VAL:HG13	1:D:1384:ILE:HD12	1.97	0.46
1:D:1341:PHE:O	1:D:1342:GLU:CB	2.54	0.46
1:D:1408:ALA:CB	1:D:1652:GLN:N	2.79	0.46
1:D:1582:GLY:O	1:D:1583:HIS:C	2.53	0.46
1:D:170:UNK:O	1:D:171:UNK:CB	2.63	0.46
1:D:1779:UNK:C	1:D:1781:UNK:N	2.77	0.46
1:D:678:VAL:HG21	1:D:767:ALA:HB3	1.97	0.46
2:E:1038:UNK:C	2:E:1040:UNK:N	2.79	0.46
2:E:149:VAL:HG22	2:E:155:GLN:CA	2.46	0.46
2:E:1686:ALA:O	2:E:1687:ALA:C	2.54	0.46
2:E:1731:GLU:HA	2:E:1735:ALA:HB3	1.97	0.46
2:E:1772:SER:C	2:E:1774:THR:H	2.18	0.46
2:E:1782:THR:HG21	2:E:1831:VAL:HG21	1.97	0.46
2:E:1792:LEU:CA	2:E:1797:LEU:HD12	2.45	0.46
2:E:1806:GLY:HA3	2:E:1811:GLU:CA	2.43	0.46
2:E:1898:TYR:CD2	2:E:1936:VAL:HG23	2.51	0.46
2:E:375:LYS:HG3	2:E:376:ASN:ND2	2.31	0.46
1:G:1039:MET:SD	1:G:1043:GLY:O	2.73	0.46
1:G:1061:SER:O	1:G:1062:TYR:O	2.33	0.46
1:G:1089:VAL:H	1:G:1093:TYR:HD2	1.63	0.46
1:G:1195:ALA:O	1:G:1196:LYS:NZ	2.48	0.46
1:G:1553:GLU:C	1:G:1555:ALA:N	2.68	0.46
1:G:1555:ALA:HA	1:G:1558:ASN:CB	2.46	0.46
1:G:1665:ILE:HD12	1:G:1669:ARG:HB2	1.97	0.46
1:G:556:UNK:C	1:G:558:UNK:N	2.77	0.46
1:G:917:CYS:SG	1:G:922:VAL:HG21	2.55	0.46
2:H:1045:UNK:C	2:H:1047:UNK:N	2.78	0.46
2:H:1169:UNK:C	2:H:1171:UNK:H2	2.29	0.46
2:H:1220:UNK:C	2:H:1222:UNK:H	2.28	0.46
2:H:12:SER:O	2:H:13:HIS:C	2.54	0.46
2:H:14:GLY:HA3	2:H:18:HIS:CG	2.51	0.46
2:H:227:ASP:HB3	2:H:229:ASP:H	1.80	0.46
2:H:261:GLY:HA2	2:H:264:ARG:CG	2.46	0.46
2:H:344:LEU:HD13	2:H:345:THR:N	2.22	0.46
2:H:517:HIS:CD2	2:H:526:ARG:HH21	2.34	0.46
2:H:869:UNK:C	2:H:871:UNK:N	2.74	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1087:LYS:HE3	1:A:1089:VAL:HG13	1.98	0.46
1:A:1323:LYS:O	1:A:1324:ALA:CB	2.64	0.46
1:A:1453:VAL:O	1:A:1457:ALA:CB	2.64	0.46
1:A:1396:MET:HG2	1:A:1676:LYS:CE	2.46	0.46
1:A:1290:LEU:CA	1:A:1701:LYS:HD2	2.46	0.46
1:A:1733:PHE:CD1	1:A:1733:PHE:N	2.83	0.46
1:A:1719:LEU:CB	1:A:1737:ASN:OD1	2.64	0.46
1:A:407:UNK:C	1:A:409:UNK:N	2.78	0.46
1:A:541:UNK:C	1:A:543:UNK:N	2.79	0.46
1:A:755:THR:HG22	1:A:756:GLU:N	2.29	0.46
1:A:784:ILE:O	1:A:788:SER:HB2	2.15	0.46
1:A:869:ILE:CG2	1:A:926:LEU:HB2	2.39	0.46
1:A:949:GLU:CD	2:B:1440:UNK:CB	2.85	0.46
2:B:1633:UNK:O	2:B:1634:UNK:CB	2.64	0.46
2:B:1929:LYS:CA	2:B:1929:LYS:HE2	2.45	0.46
2:B:28:PHE:HD2	2:B:28:PHE:HA	1.66	0.46
2:B:31:SER:O	2:B:34:GLN:N	2.49	0.46
2:B:801:UNK:C	2:B:803:UNK:N	2.78	0.46
3:C:29:UNK:O	3:C:30:UNK:C	2.63	0.46
3:C:3:UNK:HA	3:C:6:UNK:CB	2.46	0.46
1:D:1010:GLU:O	1:D:1011:GLY:C	2.53	0.46
1:D:1103:ILE:O	1:D:1106:ILE:CG1	2.64	0.46
1:D:1119:LYS:CE	1:D:1121:MET:HB2	2.40	0.46
1:D:1141:ALA:HA	1:D:1144:PHE:HE1	1.76	0.46
1:D:1165:VAL:CG2	1:D:1166:LYS:H	2.25	0.46
1:D:1502:ARG:O	1:D:1503:ALA:C	2.54	0.46
1:D:1504:ALA:O	1:D:1505:GLN:C	2.54	0.46
1:D:1433:HIS:HD2	1:D:1519:ILE:HG12	1.80	0.46
1:D:1557:ILE:HA	1:D:1560:MET:SD	2.56	0.46
2:E:119:THR:O	2:E:122:LEU:HB3	2.16	0.46
2:E:13:HIS:O	2:E:15:SER:N	2.49	0.46
2:E:160:PHE:CZ	2:E:283:ILE:HD12	2.51	0.46
2:E:1753:LYS:HG3	2:E:1754:GLU:N	2.31	0.46
2:E:1790:GLU:O	2:E:1791:ASP:C	2.54	0.46
2:E:1830:VAL:CG1	2:E:1831:VAL:N	2.79	0.46
2:E:184:VAL:O	2:E:185:GLY:C	2.54	0.46
2:E:1960:UNK:O	2:E:1961:UNK:C	2.63	0.46
2:E:248:HIS:O	2:E:249:TYR:C	2.55	0.46
2:E:568:UNK:C	2:E:570:UNK:N	2.78	0.46
2:E:926:UNK:O	2:E:927:UNK:C	2.62	0.46
1:G:1020:VAL:CG1	1:G:1021:VAL:N	2.78	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1128:GLU:HA	1:G:1177:LYS:CA	2.44	0.46
1:G:1133:PRO:CD	1:G:1173:LEU:HD13	2.46	0.46
1:G:1203:ASP:C	1:G:1205:ILE:H	2.14	0.46
1:G:1248:GLY:O	1:G:1300:THR:HA	2.15	0.46
1:A:1138:LYS:NZ	1:G:243:UNK:CB	2.79	0.46
1:G:481:UNK:O	1:G:483:UNK:N	2.49	0.46
1:G:779:ILE:HD12	1:G:837:GLY:HA3	1.98	0.46
2:H:1751:ILE:HD13	2:H:1840:VAL:CG2	2.42	0.46
2:H:1792:LEU:N	2:H:1792:LEU:HD23	2.31	0.46
2:H:1792:LEU:CA	2:H:1797:LEU:HD12	2.45	0.46
2:H:660:UNK:C	2:H:662:UNK:N	2.78	0.46
2:H:843:UNK:O	2:H:846:UNK:N	2.49	0.46
1:A:1036:ARG:O	1:A:1039:MET:N	2.49	0.46
1:A:1063:HIS:CD2	1:A:1065:GLY:CA	2.98	0.46
1:A:1460:LYS:HD3	1:A:1778:UNK:CB	2.46	0.46
1:A:1665:ILE:HG22	1:A:1667:GLU:H	1.80	0.46
1:A:622:UNK:O	1:A:626:UNK:N	2.49	0.46
1:A:796:LEU:O	1:A:799:ILE:HB	2.16	0.46
1:A:930:LEU:O	1:A:932:PHE:N	2.49	0.46
2:B:1058:UNK:HA	2:B:1061:UNK:CB	2.45	0.46
2:B:1753:LYS:O	2:B:1754:GLU:HB3	2.16	0.46
2:B:1830:VAL:C	2:B:1832:PHE:N	2.66	0.46
2:B:1778:GLN:NE2	2:B:1835:GLY:HA2	2.30	0.46
2:B:227:ASP:HB3	2:B:229:ASP:H	1.81	0.46
2:B:60:LEU:N	2:B:60:LEU:HD12	2.31	0.46
3:C:38:UNK:C	3:C:40:UNK:N	2.78	0.46
1:D:1219:VAL:HG13	1:D:1220:VAL:N	2.30	0.46
1:D:1487:LEU:HA	1:D:1490:THR:HG21	1.97	0.46
1:D:1542:HIS:O	1:D:1544:THR:N	2.49	0.46
1:D:444:UNK:CB	1:D:1613:ASN:OD1	2.64	0.46
1:D:1396:MET:HG2	1:D:1676:LYS:HE2	1.97	0.46
1:D:1700:SER:C	1:D:1701:LYS:HD3	2.36	0.46
1:D:1740:SER:O	1:D:1742:ASP:N	2.48	0.46
2:E:1304:UNK:O	2:E:1305:UNK:O	2.33	0.46
2:E:1421:UNK:O	2:E:1423:UNK:N	2.49	0.46
2:E:1490:UNK:CB	2:E:1507:UNK:N	2.79	0.46
2:E:1638:UNK:N	2:E:1655:UNK:O	2.48	0.46
2:E:1750:LYS:O	2:E:1751:ILE:C	2.54	0.46
2:E:1863:ALA:HA	2:E:1866:PHE:CG	2.51	0.46
2:E:37:PHE:HD2	2:E:37:PHE:HA	1.67	0.46
2:E:408:PRO:CG	2:E:409:PHE:H	2.28	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:408:PRO:HD3	2:E:731:UNK:O	2.15	0.46
2:E:618:UNK:C	2:E:620:UNK:N	2.78	0.46
1:G:1067:LEU:HA	1:G:1074:GLY:O	2.16	0.46
1:G:1112:ASN:C	1:G:1114:TYR:N	2.56	0.46
1:G:451:UNK:O	1:G:452:UNK:C	2.64	0.46
1:G:993:PRO:HA	1:G:1681:GLU:OE1	2.15	0.46
2:H:1812:TYR:C	2:H:1814:ALA:N	2.70	0.46
2:H:1995:UNK:C	2:H:1996:UNK:O	2.61	0.46
2:H:345:THR:O	2:H:349:VAL:HG23	2.16	0.46
2:H:928:UNK:O	2:H:930:UNK:N	2.49	0.46
2:H:974:UNK:C	2:H:976:UNK:N	2.77	0.46
1:A:1019:ILE:HG13	1:A:1316:VAL:CG2	2.39	0.45
1:A:1100:HIS:C	1:A:1102:GLY:N	2.65	0.45
1:A:1190:PRO:O	1:A:1191:THR:CG2	2.64	0.45
1:A:1246:CYS:H	1:A:1328:ILE:HG23	1.81	0.45
1:A:1275:LEU:O	1:A:1278:SER:HB3	2.16	0.45
1:A:1288:ASN:C	1:A:1290:LEU:N	2.69	0.45
1:A:1417:SER:C	1:A:1418:VAL:CG2	2.83	0.45
1:A:1582:GLY:O	1:A:1583:HIS:C	2.55	0.45
1:A:448:UNK:C	1:A:450:UNK:N	2.80	0.45
1:A:888:ILE:C	1:A:890:LYS:H	2.19	0.45
1:A:914:VAL:O	1:A:915:GLU:C	2.55	0.45
2:B:1220:UNK:C	2:B:1222:UNK:N	2.78	0.45
2:B:12:SER:O	2:B:13:HIS:C	2.54	0.45
2:B:1751:ILE:HD13	2:B:1840:VAL:CG2	2.41	0.45
2:B:416:PHE:HB3	2:B:418:ASN:HD21	1.81	0.45
2:B:452:ALA:C	2:B:454:ASP:H	2.19	0.45
2:B:562:UNK:O	2:B:563:UNK:C	2.64	0.45
2:B:923:UNK:C	2:B:927:UNK:CB	2.95	0.45
1:D:1091:ALA:C	1:D:1093:TYR:N	2.66	0.45
1:D:1214:PHE:O	1:D:1215:VAL:C	2.55	0.45
1:D:1562:LYS:C	1:D:1564:LEU:N	2.70	0.45
1:D:589:UNK:O	1:D:591:UNK:N	2.49	0.45
1:D:689:GLY:HA2	1:D:692:VAL:CB	2.46	0.45
1:D:707:THR:HG22	1:D:709:ARG:H	1.81	0.45
1:D:718:TYR:N	1:D:718:TYR:CD1	2.84	0.45
1:D:694:GLN:HB3	1:D:725:TYR:CE2	2.51	0.45
1:D:826:MET:HB2	1:D:868:ILE:CA	2.38	0.45
2:E:122:LEU:O	2:E:125:ASN:HB2	2.16	0.45
2:E:1585:UNK:O	2:E:1587:UNK:N	2.48	0.45
2:E:182:VAL:HG12	2:E:183:LEU:HD23	1.96	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:1871:LEU:HD13	2:E:1882:THR:CG2	2.46	0.45
2:E:211:GLN:O	2:E:212:GLY:C	2.55	0.45
2:E:260:PRO:CG	2:E:292:PHE:HB2	2.39	0.45
2:E:37:PHE:CD1	2:E:49:ALA:HB3	2.52	0.45
2:E:38:ASN:OD1	2:E:38:ASN:C	2.53	0.45
2:E:416:PHE:HB3	2:E:418:ASN:HD21	1.81	0.45
2:E:51:ASP:O	2:E:52:ASP:C	2.54	0.45
2:E:59:GLU:OE1	2:E:122:LEU:CA	2.62	0.45
2:E:75:SER:C	2:E:77:VAL:N	2.67	0.45
2:E:928:UNK:O	2:E:930:UNK:N	2.49	0.45
1:G:1478:PRO:O	1:G:1479:SER:HB3	2.16	0.45
1:G:1528:THR:C	1:G:1529:TYR:CD1	2.89	0.45
1:G:1616:LYS:C	1:G:1618:LEU:H	2.18	0.45
1:G:1700:SER:HA	1:G:1701:LYS:HE3	1.98	0.45
1:G:1740:SER:O	1:G:1742:ASP:N	2.50	0.45
1:G:574:UNK:O	1:G:575:UNK:C	2.64	0.45
1:G:682:GLY:O	1:G:683:ALA:O	2.35	0.45
1:G:689:GLY:O	1:G:692:VAL:HB	2.15	0.45
1:G:711:SER:O	1:G:714:VAL:N	2.48	0.45
1:G:781:LEU:O	1:G:782:GLU:O	2.34	0.45
2:H:1137:UNK:C	2:H:1139:UNK:N	2.80	0.45
2:H:1215:UNK:O	2:H:1226:UNK:CB	2.64	0.45
2:H:1332:UNK:O	2:H:1333:UNK:C	2.65	0.45
2:H:1715:VAL:HA	2:H:1718:THR:HG22	1.97	0.45
2:H:1754:GLU:O	2:H:1756:ASN:N	2.49	0.45
2:H:1901:ALA:HA	2:H:1905:ARG:HH21	1.79	0.45
2:H:2029:UNK:C	2:H:2031:UNK:N	2.78	0.45
2:H:578:UNK:C	2:H:580:UNK:N	2.79	0.45
1:A:1233:GLU:HG2	1:A:1233:GLU:O	2.16	0.45
1:A:1307:THR:OG1	1:A:1308:SER:N	2.44	0.45
1:A:1301:PRO:HB3	1:A:1314:ILE:CD1	2.45	0.45
1:A:1343:PHE:C	1:A:1345:ASN:H	2.19	0.45
1:A:1232:TYR:CE1	1:A:1705:PRO:HD3	2.44	0.45
1:A:693:LEU:O	1:A:695:GLY:N	2.49	0.45
1:A:610:UNK:CB	1:A:873:ARG:HH21	2.29	0.45
1:A:937:LYS:O	1:A:939:PHE:N	2.49	0.45
2:B:836:UNK:CA	2:B:1028:UNK:HA	2.43	0.45
2:B:1252:UNK:O	2:B:1253:UNK:O	2.33	0.45
2:B:1462:UNK:C	2:B:1464:UNK:N	2.79	0.45
2:B:1742:VAL:HG21	2:B:1837:THR:HA	1.99	0.45
2:B:1750:LYS:O	2:B:1751:ILE:C	2.54	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1887:GLU:OE2	2:B:1888:ILE:HG22	2.16	0.45
2:B:310:CYS:SG	2:B:484:ILE:HG21	2.55	0.45
2:B:511:GLY:C	2:B:513:GLY:H	2.17	0.45
2:B:56:THR:O	2:B:59:GLU:HB2	2.17	0.45
1:D:1020:VAL:HG22	1:D:1403:ILE:CA	2.43	0.45
1:D:1112:ASN:ND2	1:D:1119:LYS:HA	2.31	0.45
1:D:1131:LEU:O	1:D:1173:LEU:HD13	2.16	0.45
1:D:1127:VAL:CG2	1:D:1180:ARG:HG3	2.46	0.45
1:D:1302:VAL:CG2	1:D:1649:LYS:HE3	2.35	0.45
1:D:1656:VAL:CG2	1:D:1657:HIS:N	2.79	0.45
1:D:1396:MET:HG2	1:D:1676:LYS:CE	2.47	0.45
1:D:1677:VAL:C	1:D:1679:ALA:N	2.69	0.45
1:D:523:UNK:C	1:D:525:UNK:N	2.78	0.45
1:D:631:UNK:O	1:D:632:UNK:C	2.64	0.45
1:D:673:PHE:O	1:D:674:LYS:O	2.35	0.45
1:D:781:LEU:O	1:D:782:GLU:O	2.34	0.45
1:D:796:LEU:HD12	1:D:800:LEU:HD21	1.97	0.45
1:D:784:ILE:HD11	1:D:838:MET:HG3	1.98	0.45
1:D:888:ILE:C	1:D:890:LYS:H	2.19	0.45
1:D:970:GLY:O	1:D:971:ASN:CB	2.64	0.45
1:D:988:ILE:O	1:D:990:LEU:N	2.49	0.45
2:E:1075:UNK:O	2:E:1076:UNK:CB	2.64	0.45
2:E:1335:UNK:C	2:E:1337:UNK:N	2.79	0.45
2:E:1712:ASN:O	2:E:1714:PRO:HD3	2.17	0.45
2:E:1778:GLN:OE1	2:E:1834:ARG:HD2	2.16	0.45
2:E:248:HIS:ND1	2:E:529:VAL:HG11	2.31	0.45
2:E:262:GLU:O	2:E:265:SER:HB3	2.16	0.45
1:G:1119:LYS:CE	1:G:1121:MET:HG3	2.46	0.45
1:G:1225:ALA:C	1:G:1227:GLY:N	2.55	0.45
1:G:1248:GLY:O	1:G:1249:SER:HB3	2.15	0.45
1:G:1208:VAL:HA	1:G:1277:GLU:OE1	2.16	0.45
1:G:1398:VAL:HG11	1:G:1400:ILE:HG23	1.97	0.45
1:G:1613:ASN:CG	1:G:1614:VAL:N	2.69	0.45
1:G:797:THR:CA	1:G:800:LEU:HD23	2.46	0.45
1:G:839:TYR:CE1	1:G:843:LYS:CE	2.98	0.45
1:G:884:ILE:O	1:G:885:ALA:HB3	2.16	0.45
2:H:1038:UNK:C	2:H:1040:UNK:N	2.79	0.45
2:H:1738:PHE:HA	2:H:1755:ILE:HG13	1.98	0.45
2:H:1778:GLN:OE1	2:H:1834:ARG:HD2	2.16	0.45
2:H:1860:GLY:O	2:H:1861:ARG:CB	2.63	0.45
2:H:234:ILE:CG2	2:H:311:TYR:HD1	2.29	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:366:VAL:HG22	2:H:381:GLY:CA	2.30	0.45
2:H:461:ASP:HB3	2:H:463:PHE:H	1.80	0.45
2:H:157:VAL:HG21	2:H:498:ALA:HB2	1.99	0.45
2:H:4:TYR:HD1	2:H:5:SER:H	1.63	0.45
2:H:692:UNK:N	2:H:716:UNK:CB	2.80	0.45
3:I:35:UNK:C	3:I:37:UNK:N	2.78	0.45
3:I:38:UNK:C	3:I:40:UNK:N	2.78	0.45
1:A:1128:GLU:HA	1:A:1177:LYS:CA	2.43	0.45
1:A:1157:ILE:CG2	1:A:1158:PRO:HD2	2.22	0.45
1:A:1214:PHE:O	1:A:1215:VAL:C	2.54	0.45
1:A:1263:ASP:O	1:A:1264:ARG:CB	2.50	0.45
1:A:1256:ALA:HB1	1:A:1274:ILE:HD11	1.99	0.45
1:A:1289:MET:HG2	1:A:1289:MET:H	1.50	0.45
1:A:1326:ILE:O	1:A:1326:ILE:HG22	2.15	0.45
1:A:1343:PHE:C	1:A:1345:ASN:N	2.68	0.45
1:A:1580:LEU:C	1:A:1581:THR:OG1	2.54	0.45
1:A:647:UNK:O	1:A:648:UNK:O	2.33	0.45
1:A:714:VAL:O	1:A:716:ASP:N	2.49	0.45
2:B:106:ALA:C	2:B:108:LEU:H	2.18	0.45
2:B:234:ILE:CD1	2:B:307:GLY:HA2	2.45	0.45
1:D:1061:SER:O	1:D:1062:TYR:O	2.34	0.45
1:D:1139:GLU:CG	1:D:1140:THR:H	2.30	0.45
1:D:1139:GLU:HG2	1:D:1140:THR:N	2.30	0.45
1:D:1009:LEU:HD22	1:D:1446:LYS:HG3	1.99	0.45
1:D:1475:GLU:HA	1:D:1475:GLU:OE1	2.16	0.45
1:D:1333:ASP:HB2	1:D:1586:GLY:HA3	1.98	0.45
1:D:431:UNK:O	1:D:432:UNK:O	2.34	0.45
1:D:485:UNK:O	1:D:487:UNK:N	2.49	0.45
1:D:622:UNK:O	1:D:626:UNK:N	2.50	0.45
1:D:695:GLY:O	1:D:696:LEU:C	2.55	0.45
1:D:710:PHE:CE1	1:D:736:PRO:HB3	2.51	0.45
2:E:1445:UNK:O	2:E:1448:UNK:N	2.49	0.45
2:E:158:ALA:C	2:E:159:ILE:HG13	2.37	0.45
2:E:1614:UNK:CB	2:E:1649:UNK:O	2.64	0.45
2:E:1733:TYR:O	2:E:1734:SER:HB2	2.16	0.45
2:E:450:PHE:HD1	2:E:451:ASN:H	1.48	0.45
2:E:681:UNK:O	2:E:684:UNK:N	2.49	0.45
2:E:846:UNK:C	2:E:848:UNK:N	2.79	0.45
3:F:35:UNK:C	3:F:37:UNK:N	2.77	0.45
3:F:53:UNK:O	3:F:55:UNK:N	2.48	0.45
1:G:1189:ILE:HA	1:G:1189:ILE:HD13	1.75	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1301:PRO:HB3	1:G:1314:ILE:CD1	2.46	0.45
1:G:1299:LYS:HZ1	1:G:1323:LYS:NZ	2.05	0.45
1:G:1246:CYS:H	1:G:1328:ILE:HG23	1.81	0.45
1:G:1438:TYR:O	1:G:1440:SER:N	2.45	0.45
1:G:1366:SER:HB3	1:G:1579:PHE:HD1	1.81	0.45
1:G:1713:ASP:O	1:G:1714:VAL:C	2.54	0.45
1:G:1748:UNK:C	1:G:1750:UNK:N	2.79	0.45
1:G:401:UNK:C	1:G:403:UNK:N	2.78	0.45
1:G:684:GLY:O	1:G:690:ALA:HB2	2.16	0.45
1:G:755:THR:CG2	1:G:756:GLU:N	2.79	0.45
1:G:782:GLU:O	1:G:784:ILE:HG22	2.17	0.45
1:G:873:ARG:HD2	1:G:882:ASN:HA	1.98	0.45
2:H:1551:UNK:O	2:H:1553:UNK:N	2.50	0.45
2:H:1906:ALA:O	2:H:1910:VAL:HG23	2.16	0.45
2:H:1972:UNK:C	2:H:1974:UNK:N	2.75	0.45
2:H:429:SER:OG	2:H:432:LEU:CB	2.65	0.45
2:H:51:ASP:O	2:H:52:ASP:C	2.55	0.45
2:H:737:UNK:C	2:H:739:UNK:N	2.75	0.45
2:H:817:UNK:O	2:H:818:UNK:C	2.64	0.45
2:H:974:UNK:O	2:H:978:UNK:N	2.50	0.45
1:A:1223:PHE:CE1	1:A:1231:PRO:HB3	2.51	0.45
1:A:1339:GLY:O	1:A:1340:SER:C	2.53	0.45
1:A:1190:PRO:HG3	1:A:1379:ALA:HA	1.98	0.45
1:A:1329:VAL:HG13	1:A:1384:ILE:HD12	1.98	0.45
1:A:1639:VAL:CG2	1:A:1655:VAL:H	2.29	0.45
1:A:1639:VAL:CG2	1:A:1655:VAL:HG12	2.46	0.45
1:A:401:UNK:C	1:A:403:UNK:N	2.80	0.45
1:A:495:UNK:O	1:A:497:UNK:N	2.50	0.45
1:A:670:UNK:O	1:A:671:VAL:HG23	2.15	0.45
1:A:710:PHE:HE1	1:A:736:PRO:CD	2.18	0.45
1:A:839:TYR:HE1	1:A:843:LYS:CE	2.28	0.45
2:B:234:ILE:CG2	2:B:311:TYR:HD1	2.29	0.45
2:B:470:VAL:HG12	2:B:470:VAL:O	2.17	0.45
2:B:56:THR:O	2:B:56:THR:HG22	2.16	0.45
1:D:1119:LYS:CG	1:D:1122:ILE:H	2.27	0.45
1:D:1237:TYR:OH	1:D:1396:MET:HB2	2.17	0.45
1:D:1408:ALA:CA	1:D:1652:GLN:O	2.64	0.45
1:D:1665:ILE:HG22	1:D:1667:GLU:H	1.80	0.45
1:D:520:UNK:C	1:D:522:UNK:N	2.79	0.45
2:E:1706:ILE:HG22	2:E:1710:VAL:CG2	2.46	0.45
2:E:221:ASN:C	2:E:223:SER:H	2.20	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:479:ILE:HA	2:E:482:CYS:SG	2.56	0.45
2:E:677:UNK:O	2:E:678:UNK:C	2.64	0.45
2:E:996:UNK:O	2:E:998:UNK:N	2.50	0.45
1:G:1020:VAL:HG22	1:G:1403:ILE:CA	2.44	0.45
1:G:1091:ALA:O	1:G:1093:TYR:O	2.34	0.45
1:G:1280:ILE:CD1	1:G:1280:ILE:N	2.59	0.45
1:G:1413:LYS:HD2	1:G:1425:ILE:HD12	1.98	0.45
1:G:1453:VAL:HG12	1:G:1454:THR:N	2.31	0.45
1:G:1625:LEU:CD2	1:G:1625:LEU:C	2.85	0.45
1:G:469:UNK:O	1:G:472:UNK:CB	2.65	0.45
1:G:727:ALA:O	1:G:728:LYS:C	2.55	0.45
1:G:798:ASN:O	1:G:799:ILE:C	2.54	0.45
1:G:882:ASN:O	1:G:883:ILE:HG13	2.16	0.45
2:H:60:LEU:HD11	2:H:121:GLU:OE2	2.16	0.45
2:H:1220:UNK:C	2:H:1222:UNK:N	2.77	0.45
2:H:1715:VAL:CG1	2:H:1716:ASN:H	2.25	0.45
2:H:1731:GLU:HA	2:H:1735:ALA:HB3	1.98	0.45
2:H:1863:ALA:O	2:H:1864:ALA:HB3	2.16	0.45
2:H:188:ILE:O	2:H:189:LYS:C	2.55	0.45
2:H:1909:THR:HG23	2:H:1912:ASN:ND2	2.31	0.45
2:H:2019:UNK:O	2:H:2020:UNK:C	2.64	0.45
2:H:234:ILE:CG1	2:H:307:GLY:HA2	2.46	0.45
2:H:267:LEU:HD12	2:H:269:GLY:H	1.81	0.45
1:A:1010:GLU:O	1:A:1011:GLY:C	2.54	0.45
1:A:1108:PRO:HB3	1:A:1362:PRO:HB2	1.97	0.45
1:A:1271:GLN:O	1:A:1272:ASN:C	2.55	0.45
1:A:1299:LYS:HZ3	1:A:1323:LYS:NZ	2.09	0.45
1:A:1418:VAL:HG11	1:A:1647:GLY:H	1.81	0.45
1:A:1457:ALA:O	1:A:1459:ILE:N	2.49	0.45
1:A:1478:PRO:O	1:A:1479:SER:HB3	2.16	0.45
1:A:1616:LYS:C	1:A:1618:LEU:H	2.20	0.45
1:A:1620:GLN:O	1:A:1621:PHE:CD1	2.70	0.45
1:A:404:UNK:O	1:A:405:UNK:C	2.65	0.45
1:A:563:UNK:O	1:A:566:UNK:N	2.49	0.45
1:A:677:TYR:O	1:A:678:VAL:HG23	2.16	0.45
1:A:791:ALA:O	1:A:793:ARG:N	2.50	0.45
1:A:992:PHE:HA	1:A:993:PRO:HB2	1.97	0.45
2:B:11:LEU:O	2:B:12:SER:C	2.54	0.45
2:B:1336:UNK:O	2:B:1340:UNK:CB	2.64	0.45
2:B:1681:TYR:HD2	2:B:1681:TYR:C	2.19	0.45
2:B:1715:VAL:CG2	2:B:1770:LEU:N	2.80	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1804:PHE:N	2:B:1804:PHE:CD1	2.85	0.45
2:B:797:UNK:O	2:B:799:UNK:N	2.48	0.45
1:D:1087:LYS:HE3	1:D:1089:VAL:HG13	1.99	0.45
1:D:1112:ASN:CA	1:D:1114:TYR:HB2	2.45	0.45
1:D:1158:PRO:CG	1:D:1159:GLU:N	2.74	0.45
1:D:1195:ALA:O	1:D:1196:LYS:NZ	2.46	0.45
1:D:1226:SER:O	1:D:1227:GLY:C	2.54	0.45
1:D:1284:SER:HB2	1:D:1298:ILE:HD11	1.99	0.45
1:D:1316:VAL:HG13	1:D:1317:GLU:N	2.31	0.45
1:D:1432:HIS:HB3	1:D:1433:HIS:H	1.61	0.45
1:D:1487:LEU:C	1:D:1490:THR:HG22	2.37	0.45
1:D:1609:ARG:HE	1:D:1610:ASN:C	2.20	0.45
1:D:448:UNK:C	1:D:450:UNK:N	2.79	0.45
1:D:458:UNK:CB	1:D:1631:LEU:HG	2.47	0.45
1:D:669:UNK:O	1:D:670:UNK:O	2.34	0.45
1:D:718:TYR:HD1	1:D:718:TYR:H	1.63	0.45
1:D:743:GLN:O	1:D:744:ASP:C	2.55	0.45
1:D:819:PRO:HA	1:D:861:GLN:HA	1.98	0.45
1:D:871:TRP:CZ2	1:D:881:ASN:HB2	2.50	0.45
2:E:60:LEU:HD11	2:E:121:GLU:OE2	2.17	0.45
2:E:1220:UNK:C	2:E:1222:UNK:H	2.29	0.45
2:E:12:SER:O	2:E:13:HIS:C	2.53	0.45
2:E:161:GLY:CA	2:E:512:LEU:HD12	2.46	0.45
2:E:1689:ASP:O	2:E:1690:VAL:C	2.55	0.45
2:E:1830:VAL:C	2:E:1832:PHE:N	2.68	0.45
2:E:1833:TYR:C	2:E:1835:GLY:N	2.69	0.45
2:E:274:SER:C	2:E:276:GLY:H	2.19	0.45
2:E:281:VAL:O	2:E:283:ILE:N	2.50	0.45
2:E:367:GLU:HB2	2:E:430:HIS:ND1	2.29	0.45
2:E:452:ALA:C	2:E:454:ASP:H	2.20	0.45
1:G:1139:GLU:HG2	1:G:1140:THR:N	2.32	0.45
1:G:1258:ARG:HD3	1:G:1338:GLU:OE2	2.17	0.45
1:G:1307:THR:O	1:G:1308:SER:OG	2.29	0.45
1:G:141:UNK:C	1:G:143:UNK:N	2.79	0.45
1:G:1519:ILE:HD13	1:G:1521:PRO:HD2	1.96	0.45
1:G:719:GLN:OE1	1:G:1611:ALA:HB1	2.17	0.45
1:G:1687:PHE:O	1:G:1690:ASN:HB3	2.16	0.45
1:G:370:UNK:O	1:G:371:UNK:C	2.65	0.45
1:G:520:UNK:C	1:G:522:UNK:N	2.80	0.45
2:H:1335:UNK:C	2:H:1337:UNK:N	2.76	0.45
2:H:1681:TYR:C	2:H:1681:TYR:HD2	2.19	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:1812:TYR:O	2:H:1814:ALA:N	2.38	0.45
2:H:1939:HIS:CD2	2:H:1940:LEU:H	2.31	0.45
2:H:241:ILE:HA	2:H:244:ILE:CD1	2.46	0.45
2:H:246:LEU:HD23	2:H:279:THR:HG23	1.97	0.45
2:H:252:THR:HG1	2:H:252:THR:H	1.57	0.45
2:H:323:ILE:O	2:H:325:GLU:N	2.50	0.45
2:H:543:PHE:C	2:H:545:GLN:H	2.20	0.45
3:I:53:UNK:O	3:I:55:UNK:N	2.49	0.45
1:A:1139:GLU:CG	1:A:1140:THR:H	2.29	0.45
1:A:1138:LYS:HG2	1:A:1139:GLU:H	1.81	0.45
1:A:1168:LEU:HD13	1:A:1169:LYS:CB	2.40	0.45
1:A:1360:ARG:O	1:A:1361:THR:O	2.35	0.45
1:A:1398:VAL:HG11	1:A:1400:ILE:HG23	1.98	0.45
1:A:1408:ALA:O	1:A:1409:THR:CG2	2.58	0.45
1:A:1424:GLY:C	1:A:1426:LEU:N	2.69	0.45
1:A:1448:ARG:C	1:A:1451:GLN:HB3	2.36	0.45
1:A:1550:ASP:O	1:A:1551:LYS:O	2.33	0.45
1:A:1609:ARG:NE	1:A:1610:ASN:N	2.61	0.45
1:A:481:UNK:O	1:A:483:UNK:N	2.50	0.45
1:A:752:ILE:HG23	1:A:761:LEU:HD21	1.98	0.45
1:A:781:LEU:O	1:A:782:GLU:O	2.35	0.45
2:B:1162:UNK:C	2:B:1164:UNK:N	2.80	0.45
2:B:1234:UNK:O	2:B:1236:UNK:N	2.49	0.45
2:B:1555:UNK:O	2:B:1556:UNK:C	2.64	0.45
2:B:1738:PHE:HA	2:B:1755:ILE:HG13	1.98	0.45
2:B:1912:ASN:O	2:B:1913:VAL:CG2	2.64	0.45
2:B:1917:ILE:CG2	2:B:1918:LYS:H	2.17	0.45
2:B:2028:UNK:O	2:B:2029:UNK:C	2.64	0.45
2:B:234:ILE:CG1	2:B:307:GLY:HA2	2.47	0.45
2:B:301:THR:O	2:B:304:PHE:HB3	2.16	0.45
2:B:323:ILE:O	2:B:325:GLU:N	2.50	0.45
2:B:439:ILE:O	2:B:443:LEU:HG	2.17	0.45
2:B:974:UNK:O	2:B:978:UNK:N	2.49	0.45
1:D:1127:VAL:O	1:D:1177:LYS:HA	2.17	0.45
1:D:1176:PRO:C	1:D:1177:LYS:HG3	2.37	0.45
1:D:1221:GLU:HA	1:D:1224:ILE:CG2	2.46	0.45
1:D:1456:GLU:N	1:D:1459:ILE:HG12	2.23	0.45
1:D:1475:GLU:OE1	1:D:1478:PRO:HG2	2.16	0.45
1:D:1475:GLU:O	1:D:1478:PRO:CD	2.65	0.45
1:D:752:ILE:HG23	1:D:761:LEU:HD21	1.99	0.45
2:E:1042:UNK:C	2:E:1044:UNK:N	2.80	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:1169:UNK:C	2:E:1171:UNK:H2	2.29	0.45
2:E:1334:UNK:C	2:E:1335:UNK:O	2.63	0.45
2:E:306:ILE:HG22	2:E:310:CYS:SG	2.56	0.45
2:E:325:GLU:O	2:E:328:LEU:N	2.50	0.45
2:E:527:VAL:HG11	2:E:544:LYS:HB2	1.98	0.45
3:F:37:UNK:C	3:F:39:UNK:N	2.79	0.45
1:G:1112:ASN:CA	1:G:1114:TYR:HB2	2.47	0.45
1:G:1191:THR:OG1	1:G:1192:GLY:N	2.49	0.45
1:G:1394:LEU:HD23	1:G:1673:TYR:CD1	2.51	0.45
1:G:561:UNK:O	1:G:562:UNK:C	2.64	0.45
1:G:743:GLN:O	1:G:745:VAL:N	2.50	0.45
1:G:845:SER:O	1:G:847:GLU:N	2.50	0.45
1:G:911:PRO:O	1:G:913:VAL:N	2.50	0.45
1:G:961:THR:C	1:G:963:LEU:N	2.69	0.45
2:H:1030:UNK:O	2:H:1031:UNK:CB	2.63	0.45
2:H:1787:ALA:O	2:H:1788:ALA:C	2.55	0.45
2:H:1830:VAL:C	2:H:1832:PHE:N	2.67	0.45
2:H:1835:GLY:O	2:H:1836:MET:C	2.54	0.45
2:H:1877:ARG:O	2:H:1878:VAL:HG13	2.16	0.45
2:H:383:PRO:O	2:H:384:GLN:O	2.34	0.45
2:H:59:GLU:OE1	2:H:122:LEU:CA	2.65	0.45
2:H:699:UNK:O	2:H:702:UNK:N	2.50	0.45
1:A:1030:TRP:CZ2	1:A:1580:LEU:CD1	2.98	0.45
1:A:1290:LEU:HA	1:A:1701:LYS:CD	2.47	0.45
1:A:1414:ILE:O	1:A:1414:ILE:HG22	2.17	0.45
1:A:1475:GLU:HG3	1:A:1762:UNK:CB	2.47	0.45
1:A:1492:GLU:O	1:A:1496:GLU:OE1	2.34	0.45
1:A:1542:HIS:O	1:A:1544:THR:N	2.50	0.45
1:A:370:UNK:O	1:A:371:UNK:C	2.65	0.45
1:A:523:UNK:C	1:A:525:UNK:N	2.77	0.45
1:A:676:LYS:O	1:A:677:TYR:O	2.35	0.45
1:A:856:GLU:HB2	1:A:858:TRP:NE1	2.32	0.45
2:B:1075:UNK:O	2:B:1076:UNK:CB	2.64	0.45
2:B:1265:UNK:O	2:B:1269:UNK:CB	2.65	0.45
2:B:149:VAL:HG22	2:B:155:GLN:CA	2.47	0.45
2:B:1702:TYR:O	2:B:1703:GLY:O	2.33	0.45
2:B:1790:GLU:O	2:B:1791:ASP:C	2.55	0.45
2:B:1812:TYR:O	2:B:1814:ALA:N	2.41	0.45
2:B:217:GLU:C	2:B:219:LEU:N	2.69	0.45
2:B:599:UNK:HA	2:B:602:UNK:CB	2.47	0.45
1:D:1191:THR:OG1	1:D:1192:GLY:N	2.50	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1230:ASP:O	1:D:1232:TYR:N	2.49	0.45
1:D:1246:CYS:HA	1:D:1327:CYS:SG	2.56	0.45
1:D:1515:ARG:O	1:D:1516:ASP:C	2.54	0.45
1:D:1423:LYS:HA	1:D:1552:ASN:OD1	2.16	0.45
1:D:1394:LEU:HD23	1:D:1673:TYR:CD1	2.51	0.45
1:D:711:SER:C	1:D:713:GLN:N	2.68	0.45
1:D:833:PHE:H	1:D:833:PHE:HD1	1.64	0.45
1:D:936:LEU:HD23	1:D:936:LEU:O	2.17	0.45
1:D:996:LYS:NZ	1:D:1400:ILE:HG13	2.32	0.45
2:E:1266:UNK:O	2:E:1267:UNK:C	2.64	0.45
2:E:11:LEU:O	2:E:12:SER:C	2.55	0.45
2:E:1738:PHE:HA	2:E:1755:ILE:HG13	1.98	0.45
2:E:599:UNK:HA	2:E:602:UNK:CB	2.47	0.45
2:E:652:UNK:O	2:E:653:UNK:CB	2.65	0.45
1:G:1353:LEU:HA	1:G:1356:PHE:HB3	1.97	0.45
1:G:1445:MET:O	1:G:1446:LYS:C	2.54	0.45
1:G:1491:ARG:O	1:G:1494:HIS:HB3	2.17	0.45
1:G:1615:ASP:OD1	1:G:1617:ILE:HG12	2.17	0.45
2:H:1742:VAL:HG21	2:H:1837:THR:HA	1.98	0.45
2:H:1878:VAL:CG1	2:H:1898:TYR:HE1	2.29	0.45
2:H:1927:LEU:CA	2:H:1930:SER:HB3	2.47	0.45
2:H:367:GLU:OE1	2:H:428:HIS:O	2.34	0.45
2:H:41:LEU:HB3	2:H:46:GLU:N	2.22	0.45
2:H:467:ASP:C	2:H:469:ARG:N	2.68	0.45
2:H:52:ASP:CG	2:H:53:GLU:N	2.70	0.45
2:H:56:THR:N	2:H:57:PRO:HD3	2.31	0.45
2:H:63:LYS:HD2	2:H:125:ASN:OD1	2.17	0.45
2:H:649:UNK:C	2:H:651:UNK:N	2.79	0.45
2:H:681:UNK:O	2:H:682:UNK:C	2.64	0.45
2:H:862:UNK:O	2:H:863:UNK:C	2.65	0.45
2:H:867:UNK:O	2:H:868:UNK:C	2.64	0.45
1:A:1194:ASN:O	1:A:1195:ALA:CB	2.64	0.45
1:A:1264:ARG:NH2	1:A:1270:VAL:O	2.48	0.45
1:A:1579:PHE:HE2	1:A:1609:ARG:HB3	1.82	0.45
1:A:1665:ILE:HD12	1:A:1669:ARG:N	2.19	0.45
1:A:1711:GLU:O	1:A:1712:GLU:C	2.55	0.45
1:A:523:UNK:O	1:A:525:UNK:N	2.50	0.45
1:A:632:UNK:CB	1:A:894:ARG:NH1	2.74	0.45
1:A:682:GLY:O	1:A:683:ALA:O	2.35	0.45
1:A:718:TYR:CD1	1:A:718:TYR:N	2.84	0.45
1:A:724:LYS:C	1:A:725:TYR:HD1	2.20	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:843:LYS:O	1:A:846:LEU:HB2	2.17	0.45
2:B:1256:UNK:C	2:B:1258:UNK:N	2.79	0.45
2:B:1519:UNK:O	2:B:1521:UNK:N	2.50	0.45
2:B:1906:ALA:O	2:B:1910:VAL:HG23	2.17	0.45
2:B:202:THR:O	2:B:202:THR:HG22	2.16	0.45
2:B:248:HIS:C	2:B:250:VAL:N	2.70	0.45
2:B:443:LEU:HB3	2:B:449:SER:HB3	1.95	0.45
2:B:52:ASP:CG	2:B:53:GLU:N	2.70	0.45
2:B:57:PRO:C	2:B:59:GLU:H	2.19	0.45
2:B:649:UNK:O	2:B:650:UNK:C	2.64	0.45
1:D:1067:LEU:CD2	1:D:1074:GLY:H	2.28	0.45
1:D:1079:LYS:C	1:D:1080:THR:HG1	2.20	0.45
1:D:1106:ILE:HA	1:D:1192:GLY:CA	2.44	0.45
1:D:1326:ILE:HG13	1:D:1388:MET:HG2	1.99	0.45
1:D:1448:ARG:C	1:D:1451:GLN:HB3	2.37	0.45
1:D:1475:GLU:HG3	1:D:1762:UNK:CB	2.46	0.45
1:D:1528:THR:O	1:D:1528:THR:HG23	2.16	0.45
1:D:1589:GLY:O	1:D:1592:MET:N	2.48	0.45
1:D:1640:SER:N	1:D:1654:ILE:HG13	2.31	0.45
1:D:426:UNK:O	1:D:430:UNK:CB	2.65	0.45
1:D:449:UNK:O	1:D:451:UNK:N	2.49	0.45
1:D:481:UNK:O	1:D:483:UNK:N	2.49	0.45
1:D:884:ILE:O	1:D:885:ALA:HB3	2.17	0.45
1:D:940:THR:HA	1:D:943:LEU:HD12	1.99	0.45
2:E:1234:UNK:O	2:E:1236:UNK:N	2.50	0.45
2:E:1256:UNK:C	2:E:1258:UNK:N	2.79	0.45
2:E:1691:TRP:O	2:E:1694:ALA:N	2.50	0.45
2:E:1715:VAL:CG2	2:E:1770:LEU:N	2.79	0.45
2:E:1929:LYS:CA	2:E:1929:LYS:HE2	2.47	0.45
2:E:346:GLN:O	2:E:347:GLU:HB3	2.16	0.45
2:E:489:LYS:O	2:E:490:TRP:C	2.55	0.45
2:E:57:PRO:C	2:E:59:GLU:H	2.20	0.45
2:E:56:THR:O	2:E:59:GLU:HB2	2.16	0.45
2:E:799:UNK:O	2:E:801:UNK:N	2.49	0.45
1:G:1232:TYR:C	1:G:1234:MET:N	2.70	0.45
1:G:1329:VAL:HG11	1:G:1385:GLN:N	2.32	0.45
1:G:1604:ILE:HG23	1:G:1630:THR:HA	1.98	0.45
1:G:1618:LEU:HD22	1:G:1623:TYR:CZ	2.51	0.45
1:G:717:TYR:CD2	1:G:718:TYR:CE1	3.01	0.45
1:G:810:LYS:C	1:G:812:ALA:N	2.70	0.45
1:G:864:VAL:O	1:G:865:CYS:HB2	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:1490:UNK:CB	2:H:1507:UNK:N	2.80	0.45
2:H:1691:TRP:CD2	2:H:1783:LEU:HD22	2.52	0.45
2:H:1968:UNK:C	2:H:1970:UNK:N	2.80	0.45
2:H:209:PHE:O	2:H:210:THR:C	2.55	0.45
2:H:215:ILE:HG22	2:H:215:ILE:O	2.17	0.45
2:H:259:THR:O	2:H:261:GLY:N	2.49	0.45
2:H:387:TYR:O	2:H:390:ASN:N	2.49	0.45
2:H:390:ASN:O	2:H:393:LEU:HB3	2.15	0.45
2:H:45:THR:CG2	2:H:46:GLU:OE1	2.65	0.45
2:H:525:VAL:O	2:H:526:ARG:C	2.55	0.45
2:H:56:THR:HG22	2:H:56:THR:O	2.15	0.45
2:H:577:UNK:O	2:H:579:UNK:N	2.49	0.45
2:H:956:UNK:C	2:H:958:UNK:N	2.73	0.45
1:A:1141:ALA:CA	1:A:1144:PHE:CE1	2.97	0.45
1:A:1142:GLU:N	1:A:1144:PHE:HE1	2.13	0.45
1:A:1341:PHE:C	1:A:1343:PHE:N	2.70	0.45
1:A:1525:ALA:C	1:A:1527:ALA:N	2.70	0.45
1:A:1677:VAL:C	1:A:1679:ALA:N	2.70	0.45
1:A:826:MET:CE	1:A:847:GLU:HG3	2.45	0.45
1:A:970:GLY:O	1:A:971:ASN:CB	2.65	0.45
2:B:1420:UNK:O	2:B:1421:UNK:O	2.35	0.45
2:B:1557:UNK:O	2:B:1560:UNK:N	2.50	0.45
2:B:1585:UNK:O	2:B:1587:UNK:N	2.49	0.45
2:B:1742:VAL:HG12	2:B:1743:ASP:N	2.32	0.45
2:B:1742:VAL:HG23	2:B:1751:ILE:HD11	1.98	0.45
2:B:266:TYR:HD1	2:B:266:TYR:H	1.63	0.45
2:B:525:VAL:O	2:B:526:ARG:C	2.55	0.45
2:B:867:UNK:O	2:B:868:UNK:C	2.64	0.45
1:D:1010:GLU:OE1	1:D:1013:LEU:CD1	2.65	0.45
1:D:1220:VAL:C	1:D:1222:ALA:N	2.71	0.45
1:D:1360:ARG:O	1:D:1361:THR:O	2.35	0.45
1:D:1398:VAL:HG11	1:D:1400:ILE:HG23	1.99	0.45
1:D:1412:ASP:OD1	1:D:1412:ASP:N	2.50	0.45
1:D:1558:ASN:OD1	1:D:1621:PHE:CD2	2.70	0.45
1:D:1606:PRO:O	1:D:1626:TYR:C	2.55	0.45
1:D:1430:ARG:NH1	1:D:1652:GLN:HG3	2.31	0.45
1:D:1693:ILE:HG13	1:D:1694:TYR:CD1	2.52	0.45
1:D:727:ALA:O	1:D:728:LYS:C	2.55	0.45
1:D:836:ASP:OD1	1:D:839:TYR:HB3	2.17	0.45
1:D:935:GLU:O	1:D:937:LYS:N	2.50	0.45
2:E:1045:UNK:C	2:E:1047:UNK:N	2.79	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:1055:UNK:O	2:E:1059:UNK:N	2.50	0.45
2:E:1173:UNK:CB	2:E:1180:UNK:CA	2.95	0.45
2:E:1874:VAL:HG22	2:E:1928:GLN:OE1	2.17	0.45
2:E:248:HIS:O	2:E:251:VAL:N	2.50	0.45
2:E:259:THR:O	2:E:261:GLY:N	2.50	0.45
1:G:1158:PRO:CG	1:G:1159:GLU:N	2.77	0.45
1:G:1284:SER:HB2	1:G:1298:ILE:HD11	1.99	0.45
1:G:1492:GLU:O	1:G:1496:GLU:OE1	2.35	0.45
1:G:1502:ARG:O	1:G:1503:ALA:C	2.55	0.45
1:G:1642:THR:CA	1:G:1652:GLN:OE1	2.64	0.45
1:G:1639:VAL:CG2	1:G:1655:VAL:H	2.30	0.45
1:G:1677:VAL:C	1:G:1679:ALA:N	2.69	0.45
1:G:1693:ILE:HG13	1:G:1694:TYR:CD1	2.51	0.45
1:G:703:VAL:CG1	1:G:704:VAL:N	2.79	0.45
2:B:317:THR:HA	2:H:1307:UNK:CB	2.47	0.45
2:H:1752:PHE:O	2:H:1755:ILE:HD11	2.17	0.45
2:H:202:THR:O	2:H:202:THR:HG22	2.17	0.45
2:H:248:HIS:ND1	2:H:529:VAL:HG11	2.32	0.45
2:H:255:LEU:C	2:H:257:GLY:H	2.19	0.45
2:H:265:SER:OG	2:H:266:TYR:N	2.50	0.45
2:H:433:VAL:H	2:H:434:PRO:CD	2.19	0.45
3:I:37:UNK:C	3:I:39:UNK:N	2.80	0.45
1:A:1083:PRO:C	1:A:1085:ASP:H	2.20	0.45
1:A:1127:VAL:O	1:A:1177:LYS:HA	2.16	0.45
1:A:1307:THR:O	1:A:1308:SER:OG	2.31	0.45
1:A:1351:ASN:ND2	1:A:1354:GLU:HG3	2.32	0.45
1:A:1526:LEU:O	1:A:1530:GLY:O	2.35	0.45
1:A:1583:HIS:HE2	1:A:1588:ALA:HA	1.81	0.45
1:A:602:UNK:O	1:A:603:UNK:O	2.35	0.45
1:A:935:GLU:O	1:A:937:LYS:N	2.49	0.45
2:B:1490:UNK:CB	2:B:1507:UNK:N	2.80	0.45
2:B:148:ALA:O	2:B:150:GLY:N	2.50	0.45
2:B:1863:ALA:HA	2:B:1866:PHE:CG	2.51	0.45
2:B:1854:MET:CE	2:B:1957:UNK:HA	2.47	0.45
2:B:2019:UNK:O	2:B:2020:UNK:C	2.64	0.45
2:B:442:ASP:HA	2:B:445:LYS:HD2	1.98	0.45
2:B:467:ASP:C	2:B:469:ARG:N	2.70	0.45
2:B:60:LEU:O	2:B:64:PHE:HB3	2.17	0.45
2:B:79:GLN:HB3	2:B:80:PHE:CD1	2.51	0.45
1:D:1119:LYS:CE	1:D:1121:MET:HG3	2.45	0.45
1:D:1144:PHE:O	1:D:1147:GLN:N	2.50	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1541:PHE:CD2	1:D:1553:GLU:OE2	2.70	0.45
1:D:1616:LYS:C	1:D:1618:LEU:H	2.19	0.45
1:D:1739:GLN:O	1:D:1740:SER:C	2.56	0.45
2:E:1056:UNK:C	2:E:1058:UNK:N	2.77	0.45
2:E:1672:GLN:HB3	2:E:1781:LEU:HG	1.99	0.45
2:E:131:ILE:CD1	2:E:182:VAL:HG13	2.41	0.45
2:E:234:ILE:CG2	2:E:311:TYR:HD1	2.30	0.45
2:E:323:ILE:O	2:E:325:GLU:N	2.50	0.45
2:E:366:VAL:HG22	2:E:381:GLY:CA	2.30	0.45
2:E:45:THR:CG2	2:E:46:GLU:OE1	2.63	0.45
2:E:63:LYS:HD2	2:E:125:ASN:OD1	2.17	0.45
1:G:1000:GLN:C	1:G:1002:LYS:H	2.16	0.45
1:G:1142:GLU:CA	1:G:1145:LYS:HB2	2.45	0.45
1:G:1254:VAL:CG2	1:G:1255:SER:H	2.07	0.45
1:G:1304:ALA:O	1:G:1305:CYS:HB3	2.17	0.45
1:G:1321:SER:O	1:G:1323:LYS:N	2.45	0.45
1:G:1351:ASN:C	1:G:1352:THR:O	2.46	0.45
1:G:1329:VAL:CG1	1:G:1385:GLN:O	2.65	0.45
1:G:1426:LEU:HD13	1:G:1650:GLY:HA3	1.97	0.45
1:G:1447:TYR:HB3	1:G:1448:ARG:H	1.43	0.45
1:G:1452:LEU:O	1:G:1456:GLU:CB	2.58	0.45
1:G:444:UNK:CB	1:G:1613:ASN:OD1	2.65	0.45
1:G:791:ALA:O	1:G:793:ARG:N	2.50	0.45
1:G:858:TRP:C	1:G:861:GLN:HE21	2.20	0.45
1:G:936:LEU:O	1:G:936:LEU:HD23	2.17	0.45
1:G:996:LYS:NZ	1:G:1400:ILE:HG13	2.32	0.45
2:H:1234:UNK:O	2:H:1236:UNK:N	2.49	0.45
2:H:1691:TRP:O	2:H:1694:ALA:N	2.50	0.45
2:H:217:GLU:C	2:H:219:LEU:N	2.71	0.45
2:H:432:LEU:HG	2:H:484:ILE:HB	1.98	0.45
1:A:998:TYR:O	1:A:1001:VAL:HB	2.16	0.44
1:A:1067:LEU:HD21	1:A:1073:THR:C	2.37	0.44
1:A:1213:LEU:O	1:A:1214:PHE:C	2.54	0.44
1:A:1245:ASN:O	1:A:1246:CYS:O	2.34	0.44
1:A:1304:ALA:O	1:A:1305:CYS:HB3	2.18	0.44
1:A:1251:MET:HE1	1:A:1585:LYS:HE2	2.00	0.44
1:A:1661:LEU:O	1:A:1662:TYR:CG	2.70	0.44
1:A:404:UNK:O	1:A:407:UNK:N	2.50	0.44
1:A:961:THR:C	1:A:963:LEU:N	2.70	0.44
1:A:993:PRO:HA	1:A:1681:GLU:OE1	2.17	0.44
2:B:1220:UNK:C	2:B:1222:UNK:H	2.28	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1304:UNK:O	2:E:318:SER:OG	2.25	0.44
2:B:1584:UNK:O	2:B:1586:UNK:N	2.50	0.44
2:B:1897:GLN:C	2:B:1899:VAL:N	2.71	0.44
2:B:255:LEU:C	2:B:257:GLY:H	2.19	0.44
2:B:330:ASN:ND2	2:B:330:ASN:O	2.51	0.44
2:B:393:LEU:HG	2:B:418:ASN:OD1	2.17	0.44
2:B:429:SER:OG	2:B:432:LEU:CB	2.65	0.44
1:D:1188:GLN:N	1:D:1188:GLN:CD	2.71	0.44
1:D:1264:ARG:NH2	1:D:1270:VAL:O	2.50	0.44
1:D:1376:PHE:CG	1:D:1377:MET:N	2.85	0.44
1:D:1528:THR:C	1:D:1529:TYR:CD1	2.90	0.44
1:D:1579:PHE:HE2	1:D:1609:ARG:HB3	1.81	0.44
1:D:1584:PRO:HG2	1:D:1584:PRO:O	2.17	0.44
1:D:1625:LEU:C	1:D:1625:LEU:CD2	2.85	0.44
1:D:1539:ALA:CB	1:D:1640:SER:O	2.65	0.44
1:D:521:UNK:O	1:D:523:UNK:N	2.51	0.44
1:D:591:UNK:O	1:D:592:UNK:C	2.65	0.44
1:D:798:ASN:O	1:D:799:ILE:C	2.55	0.44
1:D:867:ALA:HB1	1:D:905:LEU:CD1	2.46	0.44
1:D:913:VAL:O	1:D:916:LEU:HB3	2.17	0.44
2:E:1737:ILE:HD12	2:E:1755:ILE:HG21	1.99	0.44
2:E:1691:TRP:CE3	2:E:1783:LEU:HD13	2.52	0.44
2:E:1792:LEU:HD23	2:E:1792:LEU:N	2.32	0.44
2:E:1897:GLN:C	2:E:1899:VAL:N	2.70	0.44
2:E:265:SER:OG	2:E:266:TYR:N	2.50	0.44
2:E:246:LEU:CD2	2:E:279:THR:HG23	2.46	0.44
2:E:234:ILE:CD1	2:E:310:CYS:HB2	2.47	0.44
2:E:535:ILE:HB	2:E:536:ASN:H	1.39	0.44
1:G:1067:LEU:HD21	1:G:1073:THR:C	2.37	0.44
1:G:1173:LEU:O	1:G:1174:TYR:CB	2.65	0.44
1:G:1213:LEU:O	1:G:1214:PHE:C	2.56	0.44
1:G:1247:SER:O	1:G:1248:GLY:O	2.35	0.44
1:G:1258:ARG:CG	1:G:1258:ARG:HH11	2.23	0.44
1:G:1360:ARG:O	1:G:1361:THR:O	2.35	0.44
1:G:1583:HIS:CG	1:G:1585:LYS:N	2.80	0.44
1:G:1652:GLN:CD	1:G:1653:ALA:H	2.21	0.44
1:G:1701:LYS:N	1:G:1701:LYS:CD	2.80	0.44
1:G:1701:LYS:O	1:G:1702:GLU:O	2.34	0.44
1:G:173:UNK:O	1:G:174:UNK:C	2.65	0.44
1:G:563:UNK:O	1:G:564:UNK:C	2.65	0.44
1:G:858:TRP:CZ3	1:G:862:LEU:HB2	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:1295:UNK:O	2:H:1298:UNK:N	2.51	0.44
2:H:1421:UNK:O	2:H:1423:UNK:N	2.50	0.44
2:H:1772:SER:C	2:H:1774:THR:H	2.19	0.44
2:H:213:LEU:O	2:H:215:ILE:N	2.42	0.44
2:H:279:THR:HG22	2:H:283:ILE:HD12	1.99	0.44
2:H:37:PHE:CD1	2:H:49:ALA:HB3	2.52	0.44
2:H:330:ASN:OD1	2:H:394:ARG:HG2	2.17	0.44
2:H:408:PRO:HD3	2:H:731:UNK:O	2.17	0.44
2:H:267:LEU:CD2	2:H:457:ILE:HD13	2.47	0.44
2:H:898:UNK:C	2:H:900:UNK:N	2.77	0.44
2:H:905:UNK:C	2:H:907:UNK:N	2.80	0.44
1:A:1189:ILE:CB	1:A:1190:PRO:HD3	2.47	0.44
1:A:1022:THR:O	1:A:1226:SER:HB2	2.17	0.44
1:A:1274:ILE:O	1:A:1275:LEU:C	2.55	0.44
1:A:1428:THR:HG22	1:A:1428:THR:O	2.18	0.44
1:A:1461:ASP:O	1:A:1462:TRP:C	2.55	0.44
1:A:1502:ARG:O	1:A:1503:ALA:C	2.55	0.44
1:A:1408:ALA:CA	1:A:1652:GLN:O	2.65	0.44
1:A:684:GLY:C	1:A:686:GLY:N	2.68	0.44
2:B:1067:UNK:O	2:B:1069:UNK:N	2.50	0.44
2:B:1146:UNK:O	2:B:1147:UNK:C	2.66	0.44
2:B:1867:SER:O	2:B:1871:LEU:HB3	2.18	0.44
2:B:188:ILE:O	2:B:189:LYS:C	2.56	0.44
2:B:19:VAL:O	2:B:23:PRO:HD3	2.17	0.44
2:B:273:HIS:CE1	2:B:488:VAL:HG11	2.52	0.44
2:B:347:GLU:HA	2:B:350:GLN:HB3	1.98	0.44
2:B:578:UNK:C	2:B:580:UNK:N	2.80	0.44
2:B:674:UNK:O	2:B:675:UNK:C	2.65	0.44
1:D:1190:PRO:O	1:D:1191:THR:CG2	2.65	0.44
1:D:1274:ILE:O	1:D:1275:LEU:C	2.55	0.44
1:D:1286:TRP:HD1	1:D:1290:LEU:HD11	1.82	0.44
1:D:1423:LYS:N	1:D:1425:ILE:HB	2.31	0.44
1:D:1457:ALA:O	1:D:1459:ILE:N	2.50	0.44
1:D:1583:HIS:CG	1:D:1585:LYS:N	2.81	0.44
1:D:1577:GLN:CD	1:D:1592:MET:HA	2.38	0.44
1:D:680:ILE:HG23	1:D:769:ILE:HD13	2.00	0.44
1:D:680:ILE:HD12	1:D:704:VAL:O	2.16	0.44
1:D:791:ALA:O	1:D:793:ARG:N	2.50	0.44
1:D:839:TYR:CE1	1:D:843:LYS:CE	3.00	0.44
1:D:873:ARG:HD2	1:D:882:ASN:HA	1.99	0.44
2:E:1265:UNK:O	2:E:1269:UNK:CB	2.65	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:1893:VAL:C	2:E:1894:GLU:O	2.55	0.44
2:E:174:ARG:HA	2:E:219:LEU:HD22	1.99	0.44
2:E:401:GLY:O	2:E:402:LEU:C	2.56	0.44
2:E:52:ASP:CG	2:E:53:GLU:N	2.70	0.44
2:E:877:UNK:O	2:E:878:UNK:C	2.65	0.44
2:E:95:TYR:O	2:E:104:LEU:HD13	2.17	0.44
1:G:1274:ILE:O	1:G:1275:LEU:C	2.56	0.44
1:G:1243:VAL:CG1	1:G:1325:ARG:H	2.22	0.44
1:G:1371:THR:C	1:G:1373:ARG:N	2.70	0.44
1:G:1423:LYS:N	1:G:1425:ILE:HB	2.33	0.44
1:G:1457:ALA:O	1:G:1459:ILE:N	2.50	0.44
1:G:1616:LYS:C	1:G:1618:LEU:N	2.71	0.44
1:G:1700:SER:HB3	1:G:1702:GLU:OE2	2.17	0.44
1:G:620:UNK:O	1:G:621:UNK:C	2.66	0.44
1:G:693:LEU:O	1:G:695:GLY:N	2.50	0.44
2:H:119:THR:O	2:H:122:LEU:HB3	2.16	0.44
2:H:122:LEU:O	2:H:125:ASN:HB2	2.17	0.44
2:H:13:HIS:O	2:H:15:SER:N	2.51	0.44
2:H:160:PHE:CZ	2:H:283:ILE:HD12	2.51	0.44
2:H:1705:SER:O	2:H:1708:ASP:HB3	2.16	0.44
2:H:1897:GLN:O	2:H:1899:VAL:N	2.50	0.44
2:H:1907:LEU:CD2	2:H:1907:LEU:H	2.12	0.44
2:H:1933:LEU:HA	2:H:1936:VAL:CG1	2.48	0.44
2:H:470:VAL:O	2:H:470:VAL:HG12	2.17	0.44
2:H:273:HIS:CE1	2:H:488:VAL:HG11	2.52	0.44
2:H:517:HIS:CE1	2:H:538:ASP:OD1	2.71	0.44
2:H:926:UNK:O	2:H:927:UNK:C	2.65	0.44
1:A:1210:PRO:HB3	1:A:1255:SER:CB	2.32	0.44
1:A:1312:VAL:O	1:A:1313:ASP:C	2.55	0.44
1:A:1342:GLU:C	1:A:1343:PHE:O	2.51	0.44
1:A:1641:ILE:HG12	1:A:1642:THR:H	1.83	0.44
1:A:458:UNK:CB	1:A:1631:LEU:HG	2.47	0.44
1:A:893:VAL:O	1:A:893:VAL:HG12	2.18	0.44
2:B:1056:UNK:O	2:B:1057:UNK:C	2.62	0.44
2:B:1487:UNK:HA	2:B:1509:UNK:O	2.17	0.44
2:B:1712:ASN:O	2:B:1714:PRO:HD3	2.17	0.44
2:B:1734:SER:O	2:B:1735:ALA:C	2.56	0.44
2:B:1884:TRP:CZ3	2:B:2051:UNK:HA	2.52	0.44
2:B:1939:HIS:CD2	2:B:1940:LEU:H	2.34	0.44
2:B:2004:UNK:O	2:B:2005:UNK:C	2.66	0.44
2:B:274:SER:C	2:B:276:GLY:H	2.19	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:379:VAL:HG12	2:B:380:SER:N	2.31	0.44
2:B:408:PRO:HD3	2:B:731:UNK:O	2.18	0.44
2:B:49:ALA:N	2:B:118:LYS:HZ2	2.13	0.44
2:B:577:UNK:O	2:B:579:UNK:N	2.50	0.44
2:B:843:UNK:O	2:B:846:UNK:N	2.50	0.44
1:D:1109:GLU:HA	1:D:1109:GLU:OE1	2.16	0.44
1:D:1173:LEU:O	1:D:1174:TYR:O	2.35	0.44
1:D:1461:ASP:O	1:D:1462:TRP:C	2.55	0.44
1:D:1466:GLU:O	1:D:1469:ALA:N	2.50	0.44
1:D:1553:GLU:C	1:D:1555:ALA:N	2.70	0.44
1:D:1589:GLY:O	1:D:1590:ALA:C	2.56	0.44
1:D:1639:VAL:CG2	1:D:1655:VAL:H	2.30	0.44
1:D:1659:ASP:CA	1:D:1662:TYR:HD2	2.21	0.44
1:D:451:UNK:O	1:D:452:UNK:C	2.66	0.44
1:D:643:UNK:C	1:D:645:UNK:N	2.78	0.44
1:D:886:GLU:C	1:D:888:ILE:H	2.21	0.44
2:E:1173:UNK:CB	2:E:1181:UNK:N	2.73	0.44
2:E:1856:ALA:C	2:E:1857:ILE:CG1	2.85	0.44
2:E:209:PHE:CE1	2:E:235:PRO:HB2	2.53	0.44
2:E:375:LYS:HG3	2:E:376:ASN:N	2.29	0.44
2:E:387:TYR:HA	2:E:390:ASN:ND2	2.18	0.44
2:E:512:LEU:O	2:E:513:GLY:C	2.55	0.44
2:E:517:HIS:CD2	2:E:526:ARG:HH21	2.34	0.44
2:E:627:UNK:C	2:E:629:UNK:N	2.80	0.44
2:E:721:UNK:O	2:E:722:UNK:O	2.35	0.44
2:E:862:UNK:O	2:E:863:UNK:C	2.66	0.44
3:F:53:UNK:O	3:F:54:UNK:C	2.63	0.44
1:G:1036:ARG:HE	1:G:1036:ARG:C	2.20	0.44
1:G:1141:ALA:CA	1:G:1144:PHE:CE1	2.97	0.44
1:G:1160:THR:CB	1:G:1166:LYS:HE3	2.43	0.44
1:G:1260:MET:SD	1:G:1275:LEU:HD23	2.57	0.44
1:G:1453:VAL:O	1:G:1457:ALA:CB	2.65	0.44
1:G:1522:LEU:C	1:G:1524:GLY:N	2.69	0.44
1:G:1661:LEU:O	1:G:1662:TYR:CG	2.70	0.44
1:G:792:HIS:ND1	1:G:796:LEU:HD21	2.33	0.44
2:H:1903:ASP:O	2:H:1904:LEU:C	2.55	0.44
2:H:2036:UNK:O	2:H:2039:UNK:N	2.51	0.44
2:H:248:HIS:O	2:H:249:TYR:C	2.56	0.44
2:H:56:THR:O	2:H:59:GLU:HB2	2.17	0.44
1:A:1453:VAL:HG12	1:A:1454:THR:N	2.32	0.44
1:A:1780:UNK:C	1:A:1782:UNK:N	2.78	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1793:UNK:C	1:A:1795:UNK:N	2.80	0.44
1:A:388:UNK:O	1:A:391:UNK:N	2.51	0.44
2:B:1056:UNK:C	2:B:1058:UNK:N	2.77	0.44
2:B:1173:UNK:CB	2:B:1180:UNK:CA	2.96	0.44
2:B:1672:GLN:HB3	2:B:1781:LEU:HG	1.99	0.44
2:B:1686:ALA:O	2:B:1687:ALA:C	2.55	0.44
2:B:212:GLY:O	2:B:218:TRP:HZ2	2.00	0.44
2:B:234:ILE:HG12	2:B:307:GLY:HA2	1.98	0.44
2:B:633:UNK:O	2:B:635:UNK:N	2.50	0.44
3:C:56:UNK:C	3:C:58:UNK:N	2.79	0.44
1:D:1036:ARG:HH21	1:D:1040:GLU:HB3	1.83	0.44
1:D:1036:ARG:O	1:D:1039:MET:N	2.50	0.44
1:D:1453:VAL:HG12	1:D:1454:THR:N	2.33	0.44
1:D:1504:ALA:O	1:D:1506:GLN:N	2.51	0.44
1:D:1620:GLN:O	1:D:1621:PHE:CD1	2.70	0.44
1:D:434:UNK:O	1:D:435:UNK:CB	2.66	0.44
1:D:680:ILE:HG23	1:D:769:ILE:HG21	1.98	0.44
1:D:990:LEU:O	1:D:991:ASP:O	2.35	0.44
2:E:149:VAL:O	2:E:266:TYR:CD2	2.71	0.44
2:E:1706:ILE:O	2:E:1709:ILE:N	2.50	0.44
2:E:168:ASP:CB	2:E:171:GLU:HB2	2.30	0.44
2:E:1861:ARG:O	2:E:1862:VAL:HB	2.17	0.44
2:E:1906:ALA:O	2:E:1910:VAL:HG23	2.17	0.44
2:E:1854:MET:CE	2:E:1957:UNK:HA	2.47	0.44
2:E:335:PRO:O	2:E:336:SER:O	2.35	0.44
2:E:31:SER:O	2:E:34:GLN:N	2.50	0.44
2:E:431:LEU:HD23	2:E:431:LEU:H	1.80	0.44
2:E:479:ILE:HG22	2:E:479:ILE:O	2.17	0.44
2:E:488:VAL:O	2:E:490:TRP:N	2.51	0.44
2:E:70:SER:O	2:E:76:LYS:HB2	2.18	0.44
2:E:843:UNK:O	2:E:846:UNK:N	2.51	0.44
1:G:1230:ASP:O	1:G:1232:TYR:N	2.50	0.44
1:G:1271:GLN:O	1:G:1272:ASN:C	2.55	0.44
1:G:1284:SER:HB3	1:G:1298:ILE:HD11	1.99	0.44
1:G:1349:THR:O	1:G:1376:PHE:N	2.50	0.44
1:G:1609:ARG:CD	1:G:1611:ALA:HB3	2.48	0.44
1:G:426:UNK:O	1:G:427:UNK:C	2.65	0.44
1:G:455:UNK:O	1:G:459:UNK:N	2.50	0.44
1:G:752:ILE:O	1:G:761:LEU:O	2.35	0.44
2:H:1343:UNK:O	2:H:1344:UNK:CB	2.64	0.44
2:H:1804:PHE:CD1	2:H:1804:PHE:N	2.85	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:1809:LEU:C	2:H:1811:GLU:N	2.69	0.44
2:H:335:PRO:O	2:H:336:SER:O	2.36	0.44
2:H:461:ASP:HB2	2:H:464:ASP:O	2.18	0.44
2:H:73:GLU:O	2:H:75:SER:N	2.47	0.44
1:A:1112:ASN:CA	1:A:1114:TYR:HB2	2.48	0.44
1:A:1303:GLY:O	1:A:1304:ALA:O	2.36	0.44
1:A:1544:THR:C	1:A:1546:THR:H	2.21	0.44
1:A:434:UNK:O	1:A:435:UNK:CB	2.66	0.44
1:A:521:UNK:O	1:A:523:UNK:N	2.50	0.44
2:B:63:LYS:HD2	2:B:125:ASN:OD1	2.17	0.44
2:B:1757:GLU:HB2	2:B:1758:HIS:H	1.55	0.44
2:B:1822:MET:HE1	2:B:1830:VAL:CG1	2.48	0.44
2:B:259:THR:O	2:B:262:GLU:N	2.50	0.44
2:B:281:VAL:O	2:B:283:ILE:N	2.50	0.44
2:B:371:VAL:CG1	2:B:371:VAL:O	2.63	0.44
2:B:408:PRO:CG	2:B:409:PHE:N	2.80	0.44
2:B:692:UNK:N	2:B:716:UNK:CB	2.81	0.44
2:B:760:UNK:O	2:B:761:UNK:C	2.66	0.44
2:B:928:UNK:O	2:B:931:UNK:N	2.50	0.44
3:C:53:UNK:O	3:C:54:UNK:C	2.63	0.44
1:D:1173:LEU:O	1:D:1174:TYR:CB	2.65	0.44
1:D:1057:MET:HE3	1:D:1193:TRP:O	2.17	0.44
1:D:1223:PHE:HE2	1:D:1386:ILE:CG2	2.14	0.44
1:D:1246:CYS:HB2	1:D:1329:VAL:O	2.17	0.44
1:D:1316:VAL:CG1	1:D:1317:GLU:N	2.79	0.44
1:D:1351:ASN:ND2	1:D:1354:GLU:HG3	2.33	0.44
1:D:1393:ALA:HB1	1:D:1398:VAL:HG11	1.98	0.44
1:D:1562:LYS:NZ	1:D:1621:PHE:CZ	2.73	0.44
1:D:455:UNK:O	1:D:459:UNK:N	2.50	0.44
1:D:613:UNK:O	1:D:614:UNK:O	2.36	0.44
1:D:622:UNK:C	1:D:624:UNK:N	2.80	0.44
1:D:692:VAL:HG22	1:D:902:ALA:HB1	2.00	0.44
1:D:873:ARG:HG3	1:D:874:GLY:N	2.29	0.44
2:E:1220:UNK:C	2:E:1222:UNK:N	2.79	0.44
2:E:101:ILE:HG13	2:E:126:TYR:CG	2.53	0.44
2:E:202:THR:O	2:E:202:THR:HG22	2.17	0.44
2:E:233:SER:HA	2:E:424:ALA:CB	2.48	0.44
2:E:279:THR:HG22	2:E:283:ILE:HD12	1.99	0.44
2:E:429:SER:OG	2:E:432:LEU:CB	2.65	0.44
2:E:649:UNK:C	2:E:651:UNK:N	2.80	0.44
2:E:796:UNK:O	2:E:797:UNK:O	2.35	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:917:UNK:O	2:E:919:UNK:N	2.50	0.44
1:G:1198:TYR:CE2	1:G:1217:VAL:CG1	3.00	0.44
1:G:1303:GLY:O	1:G:1304:ALA:C	2.56	0.44
1:G:1391:ASP:O	1:G:1393:ALA:N	2.51	0.44
1:G:1448:ARG:C	1:G:1451:GLN:HB3	2.37	0.44
1:G:1471:LYS:O	1:G:1474:ALA:CB	2.65	0.44
1:G:1526:LEU:O	1:G:1530:GLY:O	2.35	0.44
1:G:426:UNK:O	1:G:430:UNK:CB	2.65	0.44
1:G:523:UNK:O	1:G:525:UNK:N	2.50	0.44
1:G:684:GLY:CA	1:G:718:TYR:OH	2.66	0.44
1:G:788:SER:O	1:G:791:ALA:HB3	2.17	0.44
1:G:861:GLN:C	1:G:862:LEU:HD23	2.37	0.44
2:H:1266:UNK:O	2:H:1267:UNK:C	2.64	0.44
2:H:1686:ALA:O	2:H:1687:ALA:C	2.56	0.44
2:H:1778:GLN:NE2	2:H:1835:GLY:HA2	2.32	0.44
2:H:431:LEU:H	2:H:431:LEU:HD23	1.82	0.44
2:H:52:ASP:HB2	2:H:113:ASP:OD2	2.18	0.44
2:H:557:UNK:O	2:H:777:UNK:CB	2.66	0.44
2:H:75:SER:C	2:H:77:VAL:N	2.68	0.44
1:A:1073:THR:CG2	1:A:1074:GLY:H	2.30	0.44
1:A:1080:THR:HG1	1:A:1083:PRO:HD2	1.82	0.44
1:A:1150:ASP:HB3	1:A:1151:LYS:H	1.67	0.44
1:A:1258:ARG:NH1	1:A:1258:ARG:HG2	2.26	0.44
1:A:1358:HIS:HB3	1:A:1359:GLY:H	1.59	0.44
1:A:1389:GLN:O	1:A:1390:ALA:CB	2.66	0.44
1:A:1459:ILE:HG22	1:A:1500:GLN:OE1	2.17	0.44
1:A:1541:PHE:O	1:A:1542:HIS:CB	2.50	0.44
1:A:1609:ARG:HE	1:A:1610:ASN:C	2.21	0.44
1:A:1539:ALA:CB	1:A:1640:SER:O	2.65	0.44
1:A:1693:ILE:HG13	1:A:1694:TYR:CD1	2.52	0.44
1:A:1700:SER:HA	1:A:1701:LYS:HE3	1.99	0.44
1:A:1739:GLN:O	1:A:1740:SER:C	2.56	0.44
1:A:1741:LYS:O	1:A:1743:SER:N	2.45	0.44
1:A:871:TRP:CZ2	1:A:881:ASN:HB2	2.52	0.44
1:A:920:SER:CB	1:A:921:PRO:HD2	2.38	0.44
2:B:1235:UNK:O	2:B:1236:UNK:CB	2.65	0.44
2:B:1304:UNK:O	2:B:1305:UNK:O	2.35	0.44
2:B:1638:UNK:N	2:B:1655:UNK:O	2.51	0.44
2:B:1826:SER:O	2:B:1827:LEU:C	2.55	0.44
2:B:1932:SER:O	2:B:1936:VAL:HG12	2.18	0.44
2:B:298:LYS:O	2:B:299:ALA:C	2.55	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:479:ILE:HG22	2:B:479:ILE:O	2.17	0.44
2:B:996:UNK:O	2:B:998:UNK:N	2.50	0.44
1:D:1047:LEU:O	1:D:1051:VAL:HG23	2.17	0.44
1:D:1138:LYS:HG2	1:D:1139:GLU:H	1.83	0.44
1:D:1349:THR:O	1:D:1376:PHE:N	2.50	0.44
1:D:1491:ARG:O	1:D:1494:HIS:HB3	2.17	0.44
1:D:1741:LYS:O	1:D:1743:SER:N	2.45	0.44
1:D:711:SER:O	1:D:714:VAL:N	2.50	0.44
1:D:807:LYS:CD	1:D:807:LYS:C	2.86	0.44
1:D:858:TRP:C	1:D:861:GLN:HE21	2.21	0.44
1:D:861:GLN:C	1:D:862:LEU:HD23	2.36	0.44
1:D:933:VAL:HA	1:D:934:PRO:HD3	1.65	0.44
1:D:961:THR:C	1:D:963:LEU:N	2.70	0.44
2:E:1487:UNK:HA	2:E:1509:UNK:O	2.18	0.44
2:E:1650:UNK:O	2:E:1652:UNK:N	2.51	0.44
2:E:1705:SER:OG	2:E:1708:ASP:CB	2.66	0.44
2:E:1716:ASN:O	2:E:1765:ARG:HB2	2.17	0.44
2:E:1730:ARG:C	2:E:1732:ASN:H	2.20	0.44
2:E:209:PHE:O	2:E:210:THR:C	2.54	0.44
2:E:212:GLY:O	2:E:218:TRP:HZ2	2.00	0.44
2:E:241:ILE:HA	2:E:244:ILE:CD1	2.48	0.44
2:E:354:ASN:O	2:E:356:THR:N	2.51	0.44
2:E:330:ASN:OD1	2:E:394:ARG:HG2	2.18	0.44
2:E:442:ASP:HA	2:E:445:LYS:HD2	1.98	0.44
2:E:744:UNK:O	2:E:746:UNK:N	2.51	0.44
1:G:1114:TYR:CB	1:G:1115:ASN:ND2	2.70	0.44
1:G:1189:ILE:CG2	1:G:1377:MET:CB	2.73	0.44
1:G:1315:GLY:O	1:G:1319:ILE:HG12	2.18	0.44
1:G:1385:GLN:NE2	1:G:1593:MET:CG	2.68	0.44
1:G:1504:ALA:O	1:G:1505:GLN:C	2.55	0.44
1:G:1544:THR:C	1:G:1546:THR:H	2.20	0.44
1:G:1295:SER:OG	1:G:1706:TYR:OH	2.36	0.44
1:G:591:UNK:O	1:G:592:UNK:C	2.65	0.44
1:G:745:VAL:O	1:G:748:LEU:N	2.51	0.44
1:G:929:GLY:C	1:G:931:GLN:N	2.68	0.44
2:H:1502:UNK:O	2:H:1503:UNK:C	2.66	0.44
2:H:157:VAL:HG12	2:H:158:ALA:N	2.32	0.44
2:H:161:GLY:CA	2:H:512:LEU:HD12	2.47	0.44
2:H:1762:TYR:C	2:H:1763:THR:HG1	2.20	0.44
2:H:1897:GLN:C	2:H:1899:VAL:N	2.69	0.44
2:H:233:SER:HA	2:H:424:ALA:CB	2.48	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:877:UNK:O	2:H:878:UNK:C	2.64	0.44
1:A:1133:PRO:CD	1:A:1173:LEU:HD13	2.47	0.44
1:A:1431:GLU:O	1:A:1432:HIS:O	2.36	0.44
1:A:141:UNK:C	1:A:143:UNK:N	2.79	0.44
1:A:1707:THR:HG23	1:A:1710:LEU:CD1	2.48	0.44
1:A:749:ILE:HD11	1:A:802:MET:CE	2.48	0.44
1:A:761:LEU:HD11	1:A:763:TRP:CD2	2.53	0.44
1:A:673:PHE:HZ	1:A:906:LEU:O	2.01	0.44
2:B:1148:UNK:C	2:B:1149:UNK:O	2.65	0.44
2:B:1295:UNK:O	2:B:1297:UNK:N	2.51	0.44
2:B:158:ALA:C	2:B:159:ILE:HG13	2.37	0.44
2:B:1787:ALA:O	2:B:1788:ALA:C	2.56	0.44
2:B:1835:GLY:O	2:B:1836:MET:C	2.56	0.44
2:B:241:ILE:CG2	2:B:275:GLN:NE2	2.67	0.44
2:B:346:GLN:O	2:B:347:GLU:HB3	2.18	0.44
2:B:157:VAL:HG21	2:B:498:ALA:HB2	1.99	0.44
2:B:962:UNK:C	2:B:964:UNK:N	2.80	0.44
1:D:1222:ALA:O	1:D:1225:ALA:N	2.43	0.44
1:D:1251:MET:CE	1:D:1585:LYS:HE2	2.47	0.44
1:D:1329:VAL:HG11	1:D:1385:GLN:HB2	2.00	0.44
1:D:1453:VAL:O	1:D:1457:ALA:CB	2.66	0.44
1:D:1491:ARG:HH11	1:D:1491:ARG:HG2	1.82	0.44
1:D:1519:ILE:HD13	1:D:1521:PRO:HD2	1.97	0.44
1:D:1583:HIS:NE2	1:D:1588:ALA:HA	2.33	0.44
1:D:1688:PHE:C	1:D:1690:ASN:N	2.71	0.44
1:D:704:VAL:HG12	1:D:704:VAL:O	2.18	0.44
1:D:796:LEU:HA	1:D:799:ILE:HD12	1.99	0.44
2:E:1137:UNK:C	2:E:1139:UNK:N	2.80	0.44
2:E:1854:MET:HA	2:E:1895:ASN:HD22	1.82	0.44
2:E:1927:LEU:CA	2:E:1930:SER:HB3	2.46	0.44
2:E:263:LEU:O	2:E:265:SER:N	2.50	0.44
2:E:633:UNK:O	2:E:635:UNK:N	2.50	0.44
2:E:691:UNK:O	2:E:692:UNK:CB	2.65	0.44
1:G:1074:GLY:O	1:G:1075:TRP:CB	2.66	0.44
1:G:1197:THR:CB	1:G:1200:ILE:HG22	2.48	0.44
1:G:1251:MET:CE	1:G:1585:LYS:HE2	2.48	0.44
1:G:1009:LEU:HD22	1:G:1446:LYS:HG3	1.98	0.44
1:G:1471:LYS:O	1:G:1474:ALA:N	2.50	0.44
1:G:1475:GLU:OE1	1:G:1478:PRO:HG2	2.17	0.44
1:G:1491:ARG:HH11	1:G:1491:ARG:HG2	1.83	0.44
1:G:1493:ILE:HG13	1:G:1494:HIS:N	2.33	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1502:ARG:O	1:G:1504:ALA:N	2.51	0.44
1:G:1531:LEU:O	1:G:1532:THR:O	2.36	0.44
1:G:1625:LEU:O	1:G:1626:TYR:HB3	2.17	0.44
1:G:491:UNK:O	1:G:493:UNK:N	2.51	0.44
1:G:707:THR:HG22	1:G:709:ARG:H	1.83	0.44
1:G:890:LYS:C	1:G:892:GLY:N	2.70	0.44
1:G:888:ILE:C	1:G:890:LYS:H	2.20	0.44
2:H:101:ILE:HD13	2:H:101:ILE:HA	1.87	0.44
2:H:1:MET:N	2:H:11:LEU:O	2.45	0.44
2:H:1733:TYR:O	2:H:1734:SER:HB2	2.17	0.44
2:H:1734:SER:O	2:H:1735:ALA:C	2.55	0.44
2:H:1737:ILE:HD13	2:H:1738:PHE:N	2.32	0.44
2:H:1742:VAL:HG23	2:H:1751:ILE:HD11	1.99	0.44
2:H:1785:GLU:OE1	3:I:20:UNK:CB	2.66	0.44
2:H:1856:ALA:C	2:H:1857:ILE:CG1	2.86	0.44
2:H:1863:ALA:HB1	2:H:1866:PHE:HB2	2.00	0.44
2:H:1874:VAL:HG22	2:H:1928:GLN:OE1	2.18	0.44
2:H:1893:VAL:C	2:H:1894:GLU:O	2.56	0.44
2:H:367:GLU:HB2	2:H:430:HIS:ND1	2.32	0.44
2:H:439:ILE:O	2:H:443:LEU:HG	2.18	0.44
3:I:29:UNK:O	3:I:32:UNK:N	2.51	0.44
1:A:1248:GLY:O	1:A:1300:THR:HA	2.18	0.44
1:A:1412:ASP:N	1:A:1412:ASP:OD1	2.51	0.44
1:A:1640:SER:N	1:A:1654:ILE:HG13	2.33	0.44
1:A:620:UNK:O	1:A:621:UNK:C	2.65	0.44
2:B:1733:TYR:O	2:B:1734:SER:HB2	2.18	0.44
2:B:1753:LYS:O	2:B:1754:GLU:CB	2.63	0.44
2:B:1760:THR:O	2:B:1761:SER:OG	2.24	0.44
2:B:1856:ALA:C	2:B:1857:ILE:CG1	2.87	0.44
2:B:1927:LEU:CA	2:B:1930:SER:HB3	2.47	0.44
1:D:1160:THR:O	1:D:1160:THR:HG23	2.18	0.44
1:D:1184:LEU:HD12	1:D:1185:VAL:H	1.83	0.44
1:D:1258:ARG:HD3	1:D:1338:GLU:OE2	2.18	0.44
1:D:1301:PRO:HB2	1:D:1310:GLU:HG2	2.00	0.44
1:D:1641:ILE:H	1:D:1641:ILE:CD1	2.00	0.44
1:D:1701:LYS:H	1:D:1701:LYS:HE3	1.83	0.44
1:D:1704:ALA:CB	1:D:1705:PRO:HD2	2.31	0.44
1:D:173:UNK:O	1:D:174:UNK:C	2.66	0.44
1:D:682:GLY:O	1:D:683:ALA:O	2.36	0.44
2:E:1549:UNK:O	2:E:1550:UNK:O	2.36	0.44
2:E:1742:VAL:HG21	2:E:1837:THR:HA	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:1828:VAL:O	2:E:1829:GLU:C	2.56	0.44
2:E:1884:TRP:CZ3	2:E:2051:UNK:HA	2.53	0.44
2:E:252:THR:H	2:E:252:THR:HG1	1.56	0.44
2:E:301:THR:O	2:E:304:PHE:HB3	2.17	0.44
2:E:342:SER:OG	2:E:343:ASN:N	2.50	0.44
2:E:444:VAL:C	2:E:446:ASN:N	2.69	0.44
2:E:772:UNK:CB	2:E:777:UNK:O	2.65	0.44
1:G:1008:GLU:O	1:G:1010:GLU:N	2.51	0.44
1:G:1015:LEU:CD2	1:G:1016:GLU:H	2.31	0.44
1:G:1110:LEU:HG	1:G:1189:ILE:H	1.83	0.44
1:G:1234:MET:O	1:G:1239:HIS:CD2	2.59	0.44
1:G:996:LYS:HZ1	1:G:1400:ILE:CG1	2.31	0.44
1:G:1431:GLU:O	1:G:1432:HIS:O	2.35	0.44
1:G:1599:ILE:C	1:G:1600:LEU:O	2.54	0.44
1:G:1396:MET:CA	1:G:1676:LYS:HD3	2.20	0.44
1:G:1684:ALA:C	1:G:1686:LYS:N	2.69	0.44
1:G:1739:GLN:O	1:G:1740:SER:C	2.57	0.44
1:G:448:UNK:C	1:G:450:UNK:N	2.80	0.44
1:G:455:UNK:O	1:G:458:UNK:N	2.51	0.44
1:G:563:UNK:O	1:G:566:UNK:N	2.50	0.44
1:G:867:ALA:HB1	1:G:905:LEU:CD1	2.48	0.44
1:G:903:PHE:C	1:G:906:LEU:HB3	2.37	0.44
2:H:1067:UNK:O	2:H:1069:UNK:N	2.50	0.44
2:H:1487:UNK:HA	2:H:1509:UNK:O	2.18	0.44
2:H:1854:MET:HA	2:H:1895:ASN:HD22	1.81	0.44
2:H:224:ASN:O	2:H:226:PRO:HD3	2.18	0.44
2:H:677:UNK:O	2:H:678:UNK:C	2.66	0.44
2:H:923:UNK:C	2:H:927:UNK:CB	2.96	0.44
3:I:56:UNK:C	3:I:58:UNK:N	2.80	0.44
1:A:1091:ALA:O	1:A:1093:TYR:O	2.36	0.44
1:A:1188:GLN:CD	1:A:1188:GLN:N	2.72	0.44
1:A:1351:ASN:O	1:A:1352:THR:C	2.56	0.44
1:A:1452:LEU:HD23	1:A:1456:GLU:HB3	2.00	0.44
1:A:1470:LEU:C	1:A:1470:LEU:HD23	2.38	0.44
1:A:1497:ALA:O	1:A:1499:SER:N	2.51	0.44
1:A:1646:PHE:O	1:A:1648:GLN:N	2.51	0.44
1:A:807:LYS:C	1:A:807:LYS:CD	2.86	0.44
1:A:840:SER:OG	1:A:841:GLU:OE1	2.35	0.44
1:A:916:LEU:O	1:A:919:LYS:HB2	2.18	0.44
2:B:1169:UNK:C	2:B:1171:UNK:H2	2.30	0.44
2:B:1737:ILE:HG23	2:B:1755:ILE:CG2	2.48	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1995:UNK:O	2:B:1996:UNK:O	2.35	0.44
2:B:401:GLY:O	2:B:402:LEU:C	2.56	0.44
2:B:529:VAL:HG12	2:B:530:ALA:H	1.81	0.44
1:D:1091:ALA:O	1:D:1093:TYR:O	2.35	0.44
1:D:1114:TYR:CB	1:D:1115:ASN:ND2	2.70	0.44
1:D:1208:VAL:CG2	1:D:1212:THR:HB	2.47	0.44
1:D:1271:GLN:O	1:D:1272:ASN:C	2.56	0.44
1:D:1289:MET:HG2	1:D:1289:MET:H	1.49	0.44
1:D:1288:ASN:C	1:D:1290:LEU:H	2.20	0.44
1:D:1476:GLU:O	1:D:1477:ILE:CG1	2.57	0.44
1:D:1546:THR:C	1:D:1548:ALA:H	2.22	0.44
1:D:1555:ALA:HA	1:D:1558:ASN:CB	2.48	0.44
1:D:1615:ASP:CG	1:D:1617:ILE:HG12	2.38	0.44
1:D:1685:TYR:CD2	2:E:966:UNK:CB	3.01	0.44
1:D:1460:LYS:HD3	1:D:1778:UNK:CB	2.48	0.44
1:D:261:UNK:C	1:D:263:UNK:N	2.79	0.44
1:D:407:UNK:C	1:D:409:UNK:N	2.77	0.44
1:D:901:MET:O	1:D:902:ALA:C	2.54	0.44
2:E:1720:HIS:CB	2:E:1762:TYR:O	2.66	0.44
2:E:1742:VAL:HG12	2:E:1743:ASP:N	2.33	0.44
2:E:1933:LEU:HA	2:E:1936:VAL:CG1	2.47	0.44
2:E:217:GLU:C	2:E:219:LEU:N	2.71	0.44
2:E:646:UNK:O	2:E:647:UNK:C	2.65	0.44
1:G:1367:ARG:NH1	1:G:1372:THR:HG21	2.32	0.44
1:G:1398:VAL:CG1	1:G:1399:PRO:HA	2.18	0.44
1:G:1433:HIS:ND1	1:G:1434:SER:O	2.51	0.44
1:G:1565:GLY:O	1:G:1566:ARG:O	2.36	0.44
1:G:615:UNK:C	1:G:617:UNK:N	2.81	0.44
1:G:752:ILE:HG23	1:G:761:LEU:HD21	1.99	0.44
1:G:784:ILE:HD11	1:G:838:MET:HG3	2.00	0.44
2:H:1075:UNK:O	2:H:1076:UNK:CB	2.66	0.44
2:H:1265:UNK:O	2:H:1269:UNK:CB	2.66	0.44
2:H:1784:MET:HE3	3:I:21:UNK:CA	2.35	0.44
2:H:1929:LYS:CA	2:H:1929:LYS:HE2	2.47	0.44
2:H:1995:UNK:O	2:H:1996:UNK:O	2.36	0.44
2:H:212:GLY:O	2:H:218:TRP:HZ2	2.01	0.44
2:H:489:LYS:O	2:H:490:TRP:C	2.55	0.44
2:H:627:UNK:C	2:H:629:UNK:N	2.81	0.44
2:H:633:UNK:O	2:H:635:UNK:N	2.51	0.44
2:H:691:UNK:O	2:H:692:UNK:CB	2.65	0.44
3:I:53:UNK:O	3:I:54:UNK:C	2.65	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1237:TYR:OH	1:A:1396:MET:CB	2.66	0.43
1:A:1240:VAL:HG13	1:A:1242:GLU:H	1.82	0.43
1:A:1288:ASN:C	1:A:1290:LEU:H	2.21	0.43
1:A:1241:SER:HB2	1:A:1295:SER:HB2	1.99	0.43
1:A:1329:VAL:HG11	1:A:1385:GLN:N	2.32	0.43
1:A:1449:LYS:C	1:A:1451:GLN:N	2.70	0.43
1:A:1546:THR:C	1:A:1548:ALA:H	2.21	0.43
1:A:1550:ASP:O	1:A:1551:LYS:C	2.57	0.43
1:A:1547:LYS:HE3	1:A:1615:ASP:CB	2.47	0.43
1:A:1684:ALA:C	1:A:1686:LYS:N	2.70	0.43
1:A:565:UNK:O	1:A:569:UNK:N	2.51	0.43
1:A:711:SER:C	1:A:713:GLN:N	2.68	0.43
1:A:724:LYS:HD3	1:A:725:TYR:HE1	1.83	0.43
1:A:743:GLN:O	1:A:745:VAL:N	2.50	0.43
1:A:909:LEU:O	1:A:909:LEU:HG	2.18	0.43
2:B:1484:UNK:O	2:B:1485:UNK:CB	2.66	0.43
2:B:1715:VAL:HA	2:B:1718:THR:CG2	2.48	0.43
2:B:2006:UNK:HA	2:B:2009:UNK:O	2.18	0.43
2:B:2029:UNK:C	2:B:2031:UNK:N	2.78	0.43
2:B:325:GLU:O	2:B:328:LEU:N	2.50	0.43
2:B:375:LYS:HG3	2:B:376:ASN:N	2.28	0.43
2:B:517:HIS:C	2:B:517:HIS:CD2	2.91	0.43
2:B:568:UNK:C	2:B:570:UNK:N	2.80	0.43
3:C:37:UNK:C	3:C:39:UNK:N	2.81	0.43
1:D:1074:GLY:O	1:D:1075:TRP:CB	2.66	0.43
1:D:1133:PRO:CD	1:D:1173:LEU:HD13	2.46	0.43
1:D:1389:GLN:O	1:D:1390:ALA:CB	2.65	0.43
1:D:1493:ILE:HG13	1:D:1494:HIS:N	2.32	0.43
1:D:1613:ASN:CG	1:D:1614:VAL:H	2.22	0.43
1:D:1625:LEU:HD13	1:D:1626:TYR:N	2.33	0.43
1:D:1728:SER:O	1:D:1729:GLY:C	2.57	0.43
1:D:523:UNK:O	1:D:525:UNK:N	2.51	0.43
1:D:797:THR:CA	1:D:800:LEU:HD23	2.47	0.43
1:D:976:ALA:O	2:E:939:UNK:HA	2.18	0.43
2:E:1681:TYR:C	2:E:1681:TYR:HD2	2.20	0.43
2:E:1718:THR:CB	2:E:1770:LEU:HD13	2.48	0.43
2:E:1742:VAL:HG23	2:E:1751:ILE:HD11	1.99	0.43
2:E:1787:ALA:O	2:E:1788:ALA:C	2.56	0.43
2:E:1875:VAL:HG22	2:E:1880:LYS:O	2.18	0.43
2:E:1972:UNK:C	2:E:1974:UNK:N	2.78	0.43
2:E:2000:UNK:O	2:E:2002:UNK:N	2.51	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:416:PHE:HB3	2:E:417:SER:H	1.35	0.43
2:E:439:ILE:O	2:E:443:LEU:HG	2.18	0.43
2:E:467:ASP:C	2:E:469:ARG:N	2.69	0.43
2:E:9:LEU:CD1	2:E:58:ALA:HB2	2.47	0.43
2:E:738:UNK:O	2:E:739:UNK:C	2.66	0.43
2:E:73:GLU:O	2:E:75:SER:N	2.47	0.43
2:E:817:UNK:O	2:E:818:UNK:C	2.66	0.43
1:G:1108:PRO:O	1:G:1109:GLU:CB	2.66	0.43
1:G:1141:ALA:HA	1:G:1144:PHE:CD1	2.51	0.43
1:G:1161:GLY:O	1:G:1162:GLU:O	2.36	0.43
1:G:1353:LEU:O	1:G:1355:GLU:N	2.51	0.43
1:G:1459:ILE:CD1	1:G:1460:LYS:N	2.81	0.43
1:G:1609:ARG:NE	1:G:1610:ASN:N	2.61	0.43
1:G:279:UNK:C	1:G:281:UNK:N	2.81	0.43
1:G:856:GLU:HB2	1:G:858:TRP:NE1	2.31	0.43
1:G:913:VAL:O	1:G:916:LEU:HB3	2.17	0.43
2:H:1730:ARG:C	2:H:1732:ASN:H	2.20	0.43
2:H:1814:ALA:HA	2:H:1817:SER:OG	2.17	0.43
2:H:1884:TRP:CZ3	2:H:2051:UNK:HA	2.53	0.43
2:H:263:LEU:O	2:H:265:SER:N	2.51	0.43
2:H:301:THR:O	2:H:304:PHE:HB3	2.17	0.43
2:H:401:GLY:O	2:H:402:LEU:C	2.56	0.43
2:H:915:UNK:C	2:H:917:UNK:N	2.80	0.43
1:A:1036:ARG:O	1:A:1040:GLU:N	2.32	0.43
1:A:1326:ILE:HG13	1:A:1388:MET:HG2	2.00	0.43
1:A:996:LYS:NZ	1:A:1400:ILE:HG13	2.33	0.43
1:A:1577:GLN:CD	1:A:1592:MET:HA	2.38	0.43
1:A:1599:ILE:C	1:A:1600:LEU:O	2.54	0.43
1:A:1609:ARG:CD	1:A:1611:ALA:HB3	2.48	0.43
1:A:1745:UNK:C	1:A:1747:UNK:N	2.81	0.43
1:A:177:UNK:O	1:A:178:UNK:C	2.66	0.43
1:A:419:UNK:C	1:A:421:UNK:H	2.31	0.43
1:A:449:UNK:O	1:A:451:UNK:N	2.51	0.43
1:A:491:UNK:O	1:A:493:UNK:N	2.51	0.43
1:A:717:TYR:CD2	1:A:718:TYR:CD1	3.04	0.43
1:A:792:HIS:CE1	1:A:796:LEU:CD2	2.96	0.43
1:A:858:TRP:C	1:A:861:GLN:HE21	2.21	0.43
2:B:1147:UNK:O	2:B:1148:UNK:CB	2.66	0.43
2:B:1861:ARG:O	2:B:1862:VAL:HB	2.18	0.43
2:B:1899:VAL:O	2:B:1903:ASP:CB	2.60	0.43
2:B:174:ARG:HA	2:B:219:LEU:HD22	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:427:PHE:O	2:B:428:HIS:C	2.57	0.43
2:B:627:UNK:C	2:B:629:UNK:N	2.80	0.43
2:B:673:UNK:O	2:B:674:UNK:C	2.67	0.43
2:B:877:UNK:O	2:B:878:UNK:C	2.65	0.43
1:D:1040:GLU:O	1:D:1606:PRO:HG3	2.18	0.43
1:D:1108:PRO:O	1:D:1109:GLU:CB	2.66	0.43
1:D:1264:ARG:NH2	1:D:1270:VAL:HB	2.32	0.43
1:D:1526:LEU:O	1:D:1530:GLY:O	2.36	0.43
1:D:1562:LYS:O	1:D:1564:LEU:N	2.51	0.43
1:D:1599:ILE:C	1:D:1600:LEU:O	2.55	0.43
1:D:1400:ILE:HD11	1:D:1662:TYR:OH	2.17	0.43
1:D:536:UNK:O	1:D:537:UNK:C	2.65	0.43
1:D:556:UNK:C	1:D:558:UNK:N	2.79	0.43
1:D:677:TYR:C	1:D:678:VAL:HG23	2.38	0.43
1:D:792:HIS:CE1	1:D:796:LEU:CD2	2.97	0.43
1:D:813:ARG:HH11	1:D:813:ARG:HG3	1.83	0.43
1:D:826:MET:HB2	1:D:868:ILE:HG12	2.00	0.43
2:E:1042:UNK:O	2:E:1044:UNK:N	2.52	0.43
2:E:1484:UNK:O	2:E:1485:UNK:CB	2.66	0.43
2:E:149:VAL:HG22	2:E:155:GLN:HA	1.99	0.43
2:E:1555:UNK:O	2:E:1556:UNK:C	2.65	0.43
2:E:1855:ILE:CG2	2:E:1951:UNK:HA	2.42	0.43
2:E:1:MET:HE3	2:E:19:VAL:HG13	1.99	0.43
2:E:2022:UNK:O	2:E:2024:UNK:N	2.49	0.43
2:E:259:THR:HG22	2:E:288:SER:HA	1.98	0.43
2:E:165:ASN:HB2	2:E:510:SER:HB2	2.00	0.43
2:E:905:UNK:C	2:E:907:UNK:N	2.81	0.43
1:G:998:TYR:O	1:G:1001:VAL:HB	2.17	0.43
1:G:997:PRO:O	1:G:1002:LYS:HE3	2.18	0.43
1:G:1017:ARG:CZ	1:G:1320:LEU:HD13	2.47	0.43
1:G:1368:PRO:O	1:G:1369:ALA:O	2.35	0.43
1:G:1463:VAL:O	1:G:1464:GLU:C	2.57	0.43
1:G:1470:LEU:C	1:G:1470:LEU:HD23	2.38	0.43
1:G:1620:GLN:O	1:G:1621:PHE:CD1	2.71	0.43
1:G:1657:HIS:CE1	1:G:1658:PRO:HD2	2.53	0.43
1:G:1701:LYS:HE3	1:G:1701:LYS:H	1.82	0.43
1:G:1706:TYR:C	1:G:1707:THR:HG22	2.39	0.43
1:G:261:UNK:C	1:G:263:UNK:N	2.79	0.43
1:G:718:TYR:CD1	1:G:718:TYR:N	2.85	0.43
1:G:797:THR:O	1:G:800:LEU:CB	2.65	0.43
1:G:901:MET:O	1:G:902:ALA:C	2.56	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:1173:UNK:CB	2:H:1181:UNK:N	2.73	0.43
2:H:1420:UNK:O	2:H:1421:UNK:O	2.36	0.43
2:H:1689:ASP:O	2:H:1690:VAL:C	2.54	0.43
1:A:1251:MET:N	1:A:1333:ASP:OD2	2.45	0.43
1:A:1425:ILE:O	1:A:1426:LEU:CD2	2.65	0.43
1:A:1681:GLU:O	1:A:1682:LYS:CB	2.65	0.43
1:A:574:UNK:O	1:A:575:UNK:C	2.65	0.43
1:A:586:UNK:O	1:A:588:UNK:N	2.51	0.43
1:A:745:VAL:O	1:A:746:GLU:C	2.57	0.43
1:A:884:ILE:O	1:A:885:ALA:HB3	2.18	0.43
1:A:972:SER:O	1:A:973:ALA:CB	2.66	0.43
2:B:1137:UNK:C	2:B:1139:UNK:N	2.81	0.43
2:B:1715:VAL:HA	2:B:1718:THR:HG22	2.00	0.43
2:B:1722:GLY:O	2:B:1723:GLY:C	2.57	0.43
2:B:244:ILE:HG13	2:B:244:ILE:H	1.61	0.43
2:B:259:THR:O	2:B:261:GLY:N	2.51	0.43
2:B:305:PHE:CE2	2:B:442:ASP:HB3	2.53	0.43
2:B:691:UNK:O	2:B:692:UNK:CB	2.66	0.43
1:D:1141:ALA:HA	1:D:1144:PHE:CD1	2.52	0.43
1:D:1209:ASP:O	1:D:1210:PRO:O	2.36	0.43
1:D:1215:VAL:HG23	1:D:1216:LEU:N	2.32	0.43
1:D:1303:GLY:O	1:D:1304:ALA:C	2.56	0.43
1:D:1376:PHE:O	1:D:1377:MET:CG	2.65	0.43
1:D:1377:MET:CG	1:D:1377:MET:O	2.54	0.43
1:D:1452:LEU:HD23	1:D:1456:GLU:HB3	2.00	0.43
1:D:1597:LEU:HD23	1:D:1597:LEU:N	2.32	0.43
1:D:1780:UNK:C	1:D:1782:UNK:N	2.79	0.43
1:D:279:UNK:C	1:D:281:UNK:N	2.80	0.43
1:D:557:UNK:O	1:D:559:UNK:N	2.51	0.43
1:D:561:UNK:O	1:D:562:UNK:C	2.66	0.43
1:D:676:LYS:O	1:D:677:TYR:O	2.37	0.43
1:D:852:ARG:C	1:D:854:HIS:N	2.72	0.43
2:E:1678:MET:O	2:E:1681:TYR:N	2.51	0.43
2:E:1705:SER:O	2:E:1708:ASP:HB3	2.18	0.43
2:E:1715:VAL:CG2	2:E:1716:ASN:H	2.05	0.43
2:E:188:ILE:O	2:E:189:LYS:C	2.55	0.43
2:E:1903:ASP:OD1	2:E:1904:LEU:N	2.51	0.43
2:E:1912:ASN:O	2:E:1913:VAL:CG2	2.67	0.43
2:E:1932:SER:O	2:E:1936:VAL:HG12	2.18	0.43
2:E:2022:UNK:C	2:E:2024:UNK:N	2.59	0.43
2:E:230:TYR:C	2:E:232:LEU:H	2.20	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:273:HIS:CE1	2:E:488:VAL:HG11	2.51	0.43
2:E:597:UNK:C	2:E:599:UNK:N	2.82	0.43
2:E:932:UNK:C	2:E:934:UNK:N	2.82	0.43
2:E:880:UNK:CB	2:E:989:UNK:O	2.66	0.43
1:G:1127:VAL:O	1:G:1177:LYS:HA	2.17	0.43
1:G:1237:TYR:OH	1:G:1396:MET:CB	2.65	0.43
1:G:1241:SER:HB2	1:G:1295:SER:HB2	2.01	0.43
1:G:1351:ASN:ND2	1:G:1354:GLU:HG3	2.32	0.43
1:G:1406:MET:HB3	1:G:1654:ILE:HG22	1.98	0.43
1:G:1579:PHE:O	1:G:1580:LEU:CB	2.50	0.43
1:G:1589:GLY:O	1:G:1592:MET:N	2.51	0.43
1:G:1625:LEU:HD13	1:G:1626:TYR:N	2.32	0.43
1:G:1714:VAL:HG13	1:G:1731:LEU:HD22	2.01	0.43
1:G:1779:UNK:C	1:G:1781:UNK:N	2.76	0.43
1:G:455:UNK:O	1:G:456:UNK:C	2.67	0.43
1:G:753:TYR:CG	1:G:809:GLN:HG2	2.53	0.43
1:G:990:LEU:O	1:G:991:ASP:O	2.36	0.43
2:H:1235:UNK:O	2:H:1236:UNK:CB	2.66	0.43
2:H:1715:VAL:CG1	2:H:1716:ASN:N	2.72	0.43
2:H:1724:GLU:O	2:H:1729:ILE:CB	2.65	0.43
2:H:1867:SER:O	2:H:1871:LEU:HB3	2.18	0.43
2:H:325:GLU:O	2:H:328:LEU:N	2.52	0.43
2:H:726:UNK:O	2:H:727:UNK:CB	2.65	0.43
1:A:1015:LEU:CD2	1:A:1016:GLU:H	2.30	0.43
1:A:1232:TYR:C	1:A:1234:MET:N	2.68	0.43
1:A:1246:CYS:HB3	1:A:1328:ILE:CG2	2.27	0.43
1:A:1427:THR:O	1:A:1430:ARG:N	2.52	0.43
1:A:1447:TYR:CE2	1:A:1450:ARG:CG	3.01	0.43
1:A:1452:LEU:O	1:A:1456:GLU:CB	2.56	0.43
1:A:1531:LEU:O	1:A:1532:THR:O	2.36	0.43
1:A:1585:LYS:HE3	1:A:1585:LYS:HB3	1.75	0.43
1:A:1631:LEU:HA	1:A:1631:LEU:HD23	1.73	0.43
1:A:1661:LEU:O	1:A:1661:LEU:CD2	2.59	0.43
1:A:1713:ASP:O	1:A:1714:VAL:C	2.56	0.43
1:A:536:UNK:O	1:A:537:UNK:C	2.66	0.43
1:A:911:PRO:O	1:A:913:VAL:N	2.51	0.43
2:B:1587:UNK:O	2:B:1590:UNK:N	2.52	0.43
2:B:1782:THR:HG1	2:B:1809:LEU:HD21	1.83	0.43
2:B:184:VAL:O	2:B:185:GLY:C	2.55	0.43
2:B:1863:ALA:O	2:B:1864:ALA:HB3	2.18	0.43
2:B:1:MET:HE3	2:B:19:VAL:HG13	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:404:GLN:C	2:B:406:ARG:N	2.71	0.43
2:B:616:UNK:C	2:B:618:UNK:H	2.22	0.43
2:B:932:UNK:C	2:B:934:UNK:N	2.81	0.43
1:D:1020:VAL:CG1	1:D:1021:VAL:N	2.81	0.43
1:D:1256:ALA:HB1	1:D:1274:ILE:HD11	1.99	0.43
1:D:1433:HIS:ND1	1:D:1434:SER:O	2.50	0.43
1:D:1470:LEU:C	1:D:1470:LEU:HD23	2.37	0.43
1:D:1793:UNK:C	1:D:1795:UNK:N	2.80	0.43
1:D:370:UNK:O	1:D:371:UNK:C	2.65	0.43
1:D:404:UNK:O	1:D:405:UNK:C	2.65	0.43
2:E:1030:UNK:O	2:E:1031:UNK:CB	2.66	0.43
2:E:157:VAL:HG12	2:E:158:ALA:N	2.34	0.43
2:E:1632:UNK:O	2:E:1633:UNK:CB	2.66	0.43
2:E:1755:ILE:HG12	2:E:1755:ILE:H	1.55	0.43
2:E:1867:SER:O	2:E:1871:LEU:HB3	2.18	0.43
2:E:1938:GLY:O	2:E:1939:HIS:HB2	2.18	0.43
2:E:241:ILE:HA	2:E:244:ILE:HD12	1.99	0.43
2:E:28:PHE:HA	2:E:28:PHE:HD2	1.67	0.43
2:E:298:LYS:O	2:E:299:ALA:C	2.56	0.43
2:E:653:UNK:O	2:E:657:UNK:N	2.52	0.43
2:E:915:UNK:C	2:E:917:UNK:N	2.80	0.43
3:F:56:UNK:C	3:F:58:UNK:N	2.79	0.43
1:G:1063:HIS:CD2	1:G:1065:GLY:CA	2.98	0.43
1:G:1075:TRP:O	1:G:1076:VAL:CG1	2.52	0.43
1:G:1192:GLY:C	1:G:1193:TRP:CG	2.92	0.43
1:G:1222:ALA:O	1:G:1225:ALA:CB	2.63	0.43
1:G:1232:TYR:O	1:G:1235:TYR:HD2	2.01	0.43
1:G:438:UNK:CB	1:G:1358:HIS:HD2	2.31	0.43
1:G:1237:TYR:OH	1:G:1396:MET:HB2	2.18	0.43
1:G:1579:PHE:HE2	1:G:1609:ARG:HB3	1.82	0.43
1:G:1333:ASP:HB2	1:G:1586:GLY:HA3	2.00	0.43
1:G:1290:LEU:CA	1:G:1701:LYS:HD2	2.48	0.43
1:G:1728:SER:O	1:G:1729:GLY:C	2.56	0.43
1:G:543:UNK:C	1:G:545:UNK:N	2.81	0.43
1:G:692:VAL:CG2	1:G:902:ALA:HB1	2.48	0.43
1:G:742:LYS:HG3	1:G:743:GLN:H	1.84	0.43
1:G:901:MET:HE3	1:G:901:MET:O	2.18	0.43
2:H:1357:UNK:CB	2:H:1406:UNK:N	2.81	0.43
2:H:149:VAL:O	2:H:266:TYR:CD2	2.72	0.43
2:H:1672:GLN:HB3	2:H:1781:LEU:HG	1.99	0.43
2:H:1826:SER:O	2:H:1827:LEU:C	2.55	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:1698:PHE:CE1	2:H:1828:VAL:HG21	2.50	0.43
2:H:1918:LYS:HB3	2:H:1919:LEU:H	1.46	0.43
2:H:1969:UNK:O	2:H:1973:UNK:CB	2.67	0.43
2:H:512:LEU:O	2:H:513:GLY:C	2.57	0.43
2:H:57:PRO:C	2:H:59:GLU:H	2.22	0.43
2:H:601:UNK:C	2:H:603:UNK:N	2.78	0.43
2:H:616:UNK:C	2:H:618:UNK:H	2.22	0.43
2:H:60:LEU:O	2:H:64:PHE:HB3	2.18	0.43
2:H:880:UNK:CB	2:H:989:UNK:O	2.66	0.43
1:A:1067:LEU:HA	1:A:1074:GLY:O	2.18	0.43
1:A:1391:ASP:O	1:A:1393:ALA:N	2.52	0.43
1:A:1475:GLU:OE1	1:A:1478:PRO:HG2	2.19	0.43
1:A:1487:LEU:C	1:A:1490:THR:HG22	2.36	0.43
1:A:1583:HIS:NE2	1:A:1588:ALA:HA	2.33	0.43
1:A:1701:LYS:N	1:A:1701:LYS:CD	2.81	0.43
1:A:1706:TYR:HB2	1:A:1707:THR:H	1.64	0.43
1:A:491:UNK:C	1:A:493:UNK:N	2.80	0.43
1:A:680:ILE:HG23	1:A:769:ILE:HG21	1.98	0.43
1:A:853:TRP:CD1	1:A:864:VAL:HG23	2.54	0.43
1:A:994:GLU:O	1:A:995:LEU:O	2.37	0.43
2:B:1551:UNK:O	2:B:1553:UNK:N	2.51	0.43
2:B:1684:SER:C	2:B:1686:ALA:N	2.71	0.43
2:B:1689:ASP:O	2:B:1690:VAL:C	2.57	0.43
2:B:1778:GLN:O	2:B:1779:PRO:C	2.56	0.43
2:B:1863:ALA:HB1	2:B:1866:PHE:HB2	2.01	0.43
2:B:1900:ALA:C	2:B:1902:GLY:N	2.72	0.43
2:B:1912:ASN:C	2:B:1913:VAL:HG22	2.39	0.43
2:B:1874:VAL:CG2	2:B:1928:GLN:HE22	2.28	0.43
2:B:474:SER:O	2:B:475:ILE:CB	2.66	0.43
2:B:165:ASN:HB2	2:B:510:SER:HB2	1.99	0.43
2:B:726:UNK:CB	2:B:786:UNK:O	2.66	0.43
1:D:1142:GLU:CA	1:D:1145:LYS:HB2	2.45	0.43
1:D:1275:LEU:O	1:D:1278:SER:HB3	2.17	0.43
1:D:1017:ARG:CZ	1:D:1320:LEU:HD13	2.49	0.43
1:D:1452:LEU:O	1:D:1456:GLU:CB	2.58	0.43
1:D:1618:LEU:O	1:D:1619:GLU:HB2	2.18	0.43
1:D:1684:ALA:C	1:D:1686:LYS:N	2.70	0.43
1:D:761:LEU:HD11	1:D:763:TRP:CD2	2.54	0.43
1:D:856:GLU:HB2	1:D:858:TRP:NE1	2.32	0.43
1:D:903:PHE:C	1:D:906:LEU:HB3	2.39	0.43
1:D:930:LEU:O	1:D:932:PHE:N	2.51	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:1737:ILE:HD13	2:E:1738:PHE:N	2.31	0.43
2:E:1806:GLY:HA2	2:E:1810:GLY:O	2.17	0.43
2:E:1863:ALA:HB1	2:E:1866:PHE:HB2	2.00	0.43
2:E:1897:GLN:O	2:E:1899:VAL:N	2.52	0.43
2:E:242:GLY:O	2:E:243:VAL:C	2.56	0.43
2:E:267:LEU:CD2	2:E:457:ILE:HD13	2.48	0.43
2:E:554:UNK:O	2:E:555:UNK:C	2.66	0.43
2:E:867:UNK:O	2:E:868:UNK:C	2.65	0.43
1:G:1023:GLY:N	1:G:1386:ILE:HG13	2.34	0.43
1:G:1087:LYS:HB3	1:G:1088:ASP:H	1.47	0.43
1:G:1118:LYS:O	1:G:1118:LYS:CG	2.67	0.43
1:G:1237:TYR:O	1:G:1238:VAL:CG2	2.67	0.43
1:G:1327:CYS:SG	1:G:1328:ILE:N	2.91	0.43
1:G:1389:GLN:O	1:G:1390:ALA:CB	2.65	0.43
1:G:1452:LEU:HD23	1:G:1456:GLU:HB3	2.01	0.43
1:G:1542:HIS:O	1:G:1544:THR:N	2.51	0.43
1:G:1028:GLY:CA	1:G:1591:TRP:HZ2	2.32	0.43
1:G:1614:VAL:HG12	1:G:1618:LEU:HD12	2.00	0.43
1:G:404:UNK:O	1:G:405:UNK:C	2.65	0.43
1:G:458:UNK:HA	1:G:1631:LEU:CD2	2.47	0.43
1:G:724:LYS:C	1:G:725:TYR:HD1	2.21	0.43
1:G:819:PRO:HA	1:G:861:GLN:HA	2.00	0.43
1:G:914:VAL:O	1:G:915:GLU:C	2.57	0.43
1:G:972:SER:O	1:G:973:ALA:CB	2.66	0.43
2:H:1266:UNK:O	2:H:1269:UNK:N	2.52	0.43
2:H:131:ILE:HG21	2:H:182:VAL:HG22	2.01	0.43
2:H:1549:UNK:O	2:H:1550:UNK:O	2.36	0.43
2:H:1678:MET:O	2:H:1681:TYR:N	2.52	0.43
2:H:1742:VAL:HG12	2:H:1743:ASP:N	2.34	0.43
2:H:1806:GLY:HA2	2:H:1810:GLY:O	2.17	0.43
2:H:357:ASN:HB3	2:H:365:GLN:HE21	1.84	0.43
2:H:383:PRO:HG2	2:H:384:GLN:H	1.83	0.43
1:A:1426:LEU:HD12	1:A:1427:THR:OG1	2.19	0.43
1:A:1613:ASN:CG	1:A:1614:VAL:H	2.22	0.43
1:A:1615:ASP:OD1	1:A:1617:ILE:HG12	2.18	0.43
1:A:1625:LEU:CD2	1:A:1626:TYR:HD1	2.32	0.43
1:A:1811:UNK:C	1:A:1813:UNK:N	2.80	0.43
1:A:378:UNK:C	1:A:380:UNK:N	2.75	0.43
1:A:836:ASP:OD1	1:A:839:TYR:HB3	2.17	0.43
2:B:63:LYS:HB2	2:B:125:ASN:ND2	2.34	0.43
2:B:1691:TRP:O	2:B:1694:ALA:N	2.52	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1909:THR:HG23	2:B:1912:ASN:ND2	2.34	0.43
2:B:2022:UNK:O	2:B:2024:UNK:N	2.50	0.43
2:B:22:VAL:N	2:B:23:PRO:HD2	2.34	0.43
2:B:248:HIS:O	2:B:249:TYR:C	2.57	0.43
2:B:726:UNK:O	2:B:727:UNK:CB	2.66	0.43
2:B:73:GLU:O	2:B:75:SER:N	2.48	0.43
2:B:799:UNK:O	2:B:801:UNK:N	2.52	0.43
2:B:88:LEU:HD21	2:B:130:ARG:HA	2.01	0.43
1:D:1008:GLU:O	1:D:1010:GLU:N	2.51	0.43
1:D:1063:HIS:CD2	1:D:1065:GLY:CA	2.99	0.43
1:D:1303:GLY:O	1:D:1304:ALA:O	2.37	0.43
1:D:1459:ILE:CD1	1:D:1460:LYS:N	2.82	0.43
1:D:1579:PHE:O	1:D:1580:LEU:CB	2.52	0.43
1:D:1707:THR:HG23	1:D:1710:LEU:CG	2.49	0.43
1:D:602:UNK:O	1:D:603:UNK:O	2.36	0.43
1:D:796:LEU:CG	1:D:797:THR:N	2.82	0.43
1:D:796:LEU:C	1:D:800:LEU:HD23	2.39	0.43
1:D:858:TRP:CZ3	1:D:862:LEU:HB2	2.53	0.43
1:D:893:VAL:HG12	1:D:893:VAL:O	2.18	0.43
1:D:942:LYS:O	1:D:943:LEU:C	2.56	0.43
1:D:990:LEU:HD23	1:D:1685:TYR:CE2	2.54	0.43
2:E:1013:UNK:C	2:E:1015:UNK:N	2.80	0.43
2:E:1148:UNK:C	2:E:1149:UNK:O	2.67	0.43
2:E:1343:UNK:O	2:E:1344:UNK:CB	2.66	0.43
2:E:1633:UNK:O	2:E:1634:UNK:CB	2.65	0.43
2:E:1731:GLU:CA	2:E:1735:ALA:HB3	2.49	0.43
2:E:1778:GLN:O	2:E:1779:PRO:C	2.54	0.43
2:E:1869:GLU:C	2:E:1871:LEU:H	2.22	0.43
2:E:2028:UNK:O	2:E:2029:UNK:O	2.37	0.43
2:E:334:VAL:HA	2:E:335:PRO:HD2	1.88	0.43
2:E:737:UNK:O	2:E:738:UNK:C	2.66	0.43
2:E:911:UNK:O	2:E:912:UNK:CB	2.67	0.43
2:E:969:UNK:O	2:E:972:UNK:N	2.52	0.43
1:G:1160:THR:HG23	1:G:1160:THR:O	2.18	0.43
1:G:1264:ARG:NH2	1:G:1270:VAL:HB	2.34	0.43
1:G:1341:PHE:C	1:G:1343:PHE:N	2.72	0.43
1:G:1412:ASP:N	1:G:1412:ASP:OD1	2.51	0.43
1:G:1447:TYR:CE2	1:G:1450:ARG:CG	3.00	0.43
1:G:1462:TRP:HE3	1:G:1463:VAL:N	2.16	0.43
1:G:1609:ARG:HE	1:G:1610:ASN:C	2.21	0.43
1:G:1658:PRO:O	1:G:1659:ASP:HB2	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:404:UNK:O	1:G:407:UNK:N	2.52	0.43
1:G:784:ILE:O	1:G:785:ASP:O	2.37	0.43
1:G:807:LYS:CD	1:G:807:LYS:C	2.85	0.43
1:G:824:LEU:HD13	1:G:846:LEU:HD22	1.99	0.43
1:G:942:LYS:O	1:G:943:LEU:C	2.57	0.43
2:H:1585:UNK:O	2:H:1587:UNK:N	2.52	0.43
2:H:1716:ASN:O	2:H:1765:ARG:HB2	2.17	0.43
2:H:1737:ILE:HG23	2:H:1755:ILE:CG2	2.49	0.43
2:H:1778:GLN:O	2:H:1779:PRO:C	2.54	0.43
2:H:1854:MET:CE	2:H:1957:UNK:HA	2.49	0.43
2:H:211:GLN:O	2:H:212:GLY:C	2.56	0.43
2:H:27:PHE:HA	2:H:30:ALA:HB3	2.01	0.43
2:H:801:UNK:C	2:H:803:UNK:N	2.78	0.43
1:A:1062:TYR:HB2	1:A:1077:ASP:OD1	2.19	0.43
1:A:1075:TRP:O	1:A:1076:VAL:CG1	2.54	0.43
1:A:1080:THR:HG1	1:A:1083:PRO:CG	2.31	0.43
1:A:1184:LEU:HD12	1:A:1185:VAL:H	1.82	0.43
1:A:1232:TYR:HE1	1:A:1705:PRO:CD	2.28	0.43
1:A:1286:TRP:HA	1:A:1289:MET:HG3	2.00	0.43
1:A:1359:GLY:O	1:A:1360:ARG:C	2.57	0.43
1:A:1329:VAL:HG11	1:A:1385:GLN:HB2	2.00	0.43
1:A:1237:TYR:OH	1:A:1396:MET:HB2	2.18	0.43
1:A:1581:THR:O	1:A:1582:GLY:C	2.57	0.43
1:A:1615:ASP:CG	1:A:1617:ILE:HG12	2.38	0.43
1:A:1625:LEU:CD2	1:A:1626:TYR:CD1	3.02	0.43
1:A:1430:ARG:NH1	1:A:1652:GLN:HG3	2.34	0.43
1:A:1665:ILE:O	1:A:1666:THR:CB	2.66	0.43
1:A:695:GLY:C	1:A:697:LEU:N	2.71	0.43
1:A:776:GLU:HB3	1:A:779:ILE:HD11	2.00	0.43
1:A:826:MET:HB3	1:A:826:MET:HE2	1.90	0.43
2:B:101:ILE:HG13	2:B:126:TYR:CG	2.54	0.43
2:B:1614:UNK:CB	2:B:1649:UNK:O	2.66	0.43
2:B:1678:MET:O	2:B:1681:TYR:N	2.51	0.43
2:B:1696:ASN:C	2:B:1698:PHE:N	2.71	0.43
2:B:1799:PRO:O	2:B:1800:ALA:C	2.57	0.43
2:B:1812:TYR:C	2:B:1814:ALA:N	2.71	0.43
2:B:1903:ASP:OD1	2:B:1904:LEU:N	2.52	0.43
2:B:230:TYR:C	2:B:232:LEU:H	2.19	0.43
2:B:234:ILE:HD11	2:B:310:CYS:HB2	2.00	0.43
2:B:433:VAL:H	2:B:434:PRO:CD	2.19	0.43
2:B:554:UNK:O	2:B:555:UNK:C	2.66	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:597:UNK:C	2:B:599:UNK:N	2.82	0.43
2:B:998:UNK:O	2:B:999:UNK:C	2.65	0.43
1:D:1332:TYR:N	1:D:1587:ALA:CB	2.73	0.43
1:D:1341:PHE:C	1:D:1343:PHE:N	2.71	0.43
1:D:1354:GLU:O	1:D:1358:HIS:N	2.43	0.43
1:D:1438:TYR:CD1	1:D:1439:ALA:N	2.86	0.43
1:D:1462:TRP:HE3	1:D:1463:VAL:N	2.16	0.43
1:D:1525:ALA:C	1:D:1527:ALA:N	2.72	0.43
1:D:1625:LEU:CD2	1:D:1626:TYR:HD1	2.31	0.43
1:D:1430:ARG:HH12	1:D:1652:GLN:HG3	1.83	0.43
1:D:1714:VAL:HG13	1:D:1731:LEU:HD22	1.99	0.43
1:D:691:GLU:O	1:D:692:VAL:C	2.57	0.43
1:D:840:SER:OG	1:D:841:GLU:OE1	2.35	0.43
1:D:890:LYS:C	1:D:892:GLY:N	2.72	0.43
1:D:914:VAL:O	1:D:915:GLU:C	2.57	0.43
2:E:131:ILE:CD1	2:E:182:VAL:CG1	2.96	0.43
2:E:522:GLY:O	2:E:556:UNK:HA	2.19	0.43
2:E:799:UNK:O	2:E:802:UNK:N	2.51	0.43
2:E:819:UNK:O	2:E:820:UNK:C	2.67	0.43
1:G:1030:TRP:CZ2	1:G:1580:LEU:CD1	3.00	0.43
1:G:1195:ALA:O	1:G:1196:LYS:HB2	2.17	0.43
1:G:1213:LEU:HA	1:G:1213:LEU:HD22	1.73	0.43
1:G:1220:VAL:C	1:G:1222:ALA:N	2.72	0.43
1:G:1308:SER:OG	1:G:1589:GLY:HA3	2.18	0.43
1:G:1426:LEU:HD12	1:G:1427:THR:OG1	2.19	0.43
1:G:1466:GLU:O	1:G:1469:ALA:N	2.52	0.43
1:G:1475:GLU:HG3	1:G:1762:UNK:CB	2.47	0.43
1:G:1780:UNK:C	1:G:1782:UNK:N	2.79	0.43
1:G:1793:UNK:C	1:G:1795:UNK:N	2.79	0.43
1:G:557:UNK:O	1:G:559:UNK:N	2.51	0.43
1:G:613:UNK:O	1:G:614:UNK:O	2.37	0.43
1:G:625:UNK:O	1:G:628:UNK:CB	2.67	0.43
1:G:869:ILE:CG2	1:G:926:LEU:HB2	2.38	0.43
2:H:836:UNK:CA	2:H:1028:UNK:HA	2.45	0.43
2:H:131:ILE:CD1	2:H:182:VAL:CG1	2.97	0.43
2:H:1584:UNK:O	2:H:1586:UNK:N	2.52	0.43
2:H:1706:ILE:HG22	2:H:1710:VAL:CG2	2.49	0.43
2:H:1833:TYR:C	2:H:1835:GLY:N	2.72	0.43
2:H:2006:UNK:HA	2:H:2009:UNK:O	2.19	0.43
2:H:252:THR:O	2:H:256:LEU:HB2	2.18	0.43
2:H:311:TYR:O	2:H:315:PRO:HB3	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:729:UNK:O	2:H:731:UNK:N	2.52	0.43
2:H:737:UNK:O	2:H:738:UNK:C	2.67	0.43
1:A:1103:ILE:HB	1:A:1104:ARG:H	1.55	0.43
1:A:1232:TYR:O	1:A:1235:TYR:HD2	2.02	0.43
1:A:1447:TYR:O	1:A:1448:ARG:HB3	2.18	0.43
1:A:1459:ILE:CD1	1:A:1460:LYS:N	2.81	0.43
1:A:1433:HIS:HD2	1:A:1519:ILE:HG12	1.83	0.43
1:A:1522:LEU:C	1:A:1524:GLY:N	2.71	0.43
1:A:261:UNK:C	1:A:263:UNK:N	2.80	0.43
1:A:398:UNK:O	1:A:401:UNK:N	2.52	0.43
1:A:451:UNK:O	1:A:452:UNK:C	2.66	0.43
1:A:613:UNK:O	1:A:614:UNK:O	2.37	0.43
1:A:819:PRO:HA	1:A:861:GLN:HA	2.00	0.43
1:A:834:GLY:O	1:A:836:ASP:N	2.52	0.43
1:A:936:LEU:HD23	1:A:936:LEU:O	2.18	0.43
1:A:997:PRO:O	1:A:1002:LYS:HE3	2.19	0.43
2:B:1343:UNK:O	2:B:1344:UNK:CB	2.67	0.43
2:B:1719:ILE:HG22	2:B:1721:PHE:CD1	2.54	0.43
2:B:1854:MET:HA	2:B:1895:ASN:HD22	1.84	0.43
2:B:1929:LYS:HA	2:B:1929:LYS:HE2	2.01	0.43
2:B:1933:LEU:HA	2:B:1936:VAL:CG1	2.48	0.43
2:B:233:SER:HA	2:B:424:ALA:CB	2.49	0.43
2:B:242:GLY:O	2:B:243:VAL:C	2.56	0.43
2:B:258:PHE:HB3	2:B:259:THR:H	1.57	0.43
2:B:369:SER:O	2:B:370:LEU:HD23	2.19	0.43
2:B:335:PRO:HA	2:B:420:PHE:HE2	1.81	0.43
2:B:707:UNK:O	2:B:710:UNK:CB	2.67	0.43
2:B:969:UNK:O	2:B:972:UNK:N	2.52	0.43
2:B:9:LEU:CD1	2:B:58:ALA:HB2	2.48	0.43
1:D:1110:LEU:HG	1:D:1189:ILE:H	1.84	0.43
1:D:1158:PRO:O	1:D:1159:GLU:HB2	2.18	0.43
1:D:1312:VAL:O	1:D:1313:ASP:C	2.57	0.43
1:D:1425:ILE:O	1:D:1426:LEU:CD2	2.64	0.43
1:D:1431:GLU:O	1:D:1432:HIS:O	2.37	0.43
1:D:1447:TYR:CE2	1:D:1450:ARG:CG	3.01	0.43
1:D:1550:ASP:O	1:D:1551:LYS:O	2.37	0.43
1:D:1609:ARG:NE	1:D:1610:ASN:N	2.63	0.43
1:D:1625:LEU:CD2	1:D:1626:TYR:CD1	3.01	0.43
1:D:455:UNK:O	1:D:456:UNK:C	2.66	0.43
1:D:871:TRP:HH2	1:D:881:ASN:O	2.01	0.43
2:E:91:PHE:HZ	2:E:101:ILE:HD11	1.82	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:1067:UNK:O	2:E:1069:UNK:N	2.52	0.43
2:E:159:ILE:HD12	2:E:501:ILE:CG2	2.49	0.43
2:E:369:SER:O	2:E:370:LEU:HD23	2.19	0.43
2:E:52:ASP:HB2	2:E:113:ASP:OD2	2.18	0.43
2:E:577:UNK:O	2:E:579:UNK:N	2.52	0.43
2:E:606:UNK:O	2:E:607:UNK:CB	2.67	0.43
3:F:29:UNK:O	3:F:32:UNK:N	2.52	0.43
3:F:38:UNK:C	3:F:40:UNK:N	2.79	0.43
1:G:1190:PRO:HG3	1:G:1379:ALA:HA	2.00	0.43
1:G:1264:ARG:NH2	1:G:1270:VAL:O	2.51	0.43
1:G:1342:GLU:C	1:G:1343:PHE:O	2.53	0.43
1:G:996:LYS:NZ	1:G:1400:ILE:CG1	2.82	0.43
1:G:1475:GLU:HA	1:G:1475:GLU:OE1	2.19	0.43
1:G:1487:LEU:C	1:G:1490:THR:HG22	2.38	0.43
1:G:1558:ASN:OD1	1:G:1621:PHE:CD2	2.71	0.43
1:G:1637:ARG:HB3	1:G:1638:ALA:H	1.58	0.43
1:G:670:UNK:C	1:G:671:VAL:HG23	2.49	0.43
1:G:695:GLY:C	1:G:697:LEU:N	2.72	0.43
1:G:774:ILE:HA	1:G:774:ILE:HD13	1.93	0.43
1:G:776:GLU:HB3	1:G:779:ILE:HD11	2.00	0.43
1:G:893:VAL:C	1:G:895:THR:N	2.70	0.43
1:G:909:LEU:HG	1:G:909:LEU:O	2.19	0.43
2:H:52:ASP:HB2	2:H:113:ASP:OD1	2.19	0.43
2:H:1148:UNK:C	2:H:1149:UNK:O	2.66	0.43
2:H:1280:UNK:O	2:H:1282:UNK:N	2.52	0.43
2:H:1722:GLY:O	2:H:1723:GLY:C	2.57	0.43
2:H:1867:SER:O	2:H:1868:GLN:C	2.57	0.43
2:H:1900:ALA:C	2:H:1902:GLY:N	2.72	0.43
2:H:2033:UNK:O	2:H:2034:UNK:C	2.67	0.43
2:H:250:VAL:O	2:H:253:ALA:N	2.52	0.43
2:H:258:PHE:HB3	2:H:259:THR:H	1.58	0.43
2:H:354:ASN:O	2:H:356:THR:N	2.51	0.43
2:H:355:LYS:O	2:H:358:SER:HB2	2.19	0.43
2:H:474:SER:O	2:H:475:ILE:CB	2.67	0.43
2:H:474:SER:C	2:H:476:SER:H	2.22	0.43
2:H:932:UNK:C	2:H:934:UNK:N	2.82	0.43
2:H:996:UNK:O	2:H:998:UNK:N	2.51	0.43
1:A:1028:GLY:O	1:A:1030:TRP:N	2.51	0.43
1:A:1139:GLU:OE2	1:A:1166:LYS:O	2.36	0.43
1:A:1262:LYS:HB3	1:A:1262:LYS:NZ	2.34	0.43
1:A:1352:THR:C	1:A:1353:LEU:O	2.56	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1371:THR:C	1:A:1373:ARG:N	2.71	0.43
1:A:1572:VAL:O	1:A:1572:VAL:HG23	2.18	0.43
1:A:1606:PRO:O	1:A:1626:TYR:C	2.56	0.43
1:A:687:SER:O	1:A:689:GLY:N	2.52	0.43
1:A:796:LEU:O	1:A:799:ILE:HG13	2.19	0.43
2:B:135:ARG:O	2:B:136:PRO:C	2.57	0.43
2:B:1451:UNK:O	2:B:1452:UNK:O	2.37	0.43
2:B:149:VAL:HG22	2:B:155:GLN:HA	2.00	0.43
2:B:1718:THR:HG23	2:B:1765:ARG:CB	2.49	0.43
2:B:1691:TRP:CE3	2:B:1783:LEU:HD13	2.53	0.43
2:B:2000:UNK:O	2:B:2002:UNK:N	2.51	0.43
2:B:209:PHE:N	2:B:209:PHE:CD1	2.87	0.43
2:B:209:PHE:CE1	2:B:235:PRO:HB2	2.54	0.43
2:B:433:VAL:HA	2:B:436:SER:HB3	2.01	0.43
2:B:543:PHE:C	2:B:545:GLN:H	2.22	0.43
2:B:742:UNK:O	2:B:743:UNK:C	2.67	0.43
2:B:772:UNK:CB	2:B:777:UNK:O	2.67	0.43
1:D:1013:LEU:CD2	1:D:1013:LEU:C	2.85	0.43
1:D:1144:PHE:H	1:D:1144:PHE:HD1	1.65	0.43
1:D:1022:THR:O	1:D:1226:SER:HB2	2.18	0.43
1:D:1289:MET:C	1:D:1290:LEU:HD12	2.39	0.43
1:D:1447:TYR:O	1:D:1448:ARG:HB3	2.18	0.43
1:D:1449:LYS:C	1:D:1451:GLN:N	2.70	0.43
1:D:1554:SER:O	1:D:1555:ALA:HB2	2.18	0.43
2:E:1737:ILE:HG23	2:E:1755:ILE:CG2	2.48	0.43
2:E:1738:PHE:HB2	2:E:1755:ILE:HG21	2.01	0.43
2:E:1814:ALA:HA	2:E:1817:SER:OG	2.19	0.43
2:E:1900:ALA:C	2:E:1902:GLY:N	2.72	0.43
2:E:252:THR:O	2:E:256:LEU:HB2	2.18	0.43
2:E:259:THR:H	2:E:262:GLU:HB2	1.83	0.43
2:E:404:GLN:C	2:E:406:ARG:N	2.71	0.43
2:E:427:PHE:O	2:E:428:HIS:C	2.56	0.43
2:E:470:VAL:HG12	2:E:470:VAL:O	2.18	0.43
2:E:517:HIS:C	2:E:517:HIS:CD2	2.92	0.43
2:E:59:GLU:HB3	2:E:125:ASN:ND2	2.34	0.43
2:E:962:UNK:C	2:E:964:UNK:N	2.81	0.43
1:G:1089:VAL:O	1:G:1090:LYS:C	2.57	0.43
1:G:1290:LEU:HA	1:G:1701:LYS:CD	2.48	0.43
1:G:1303:GLY:O	1:G:1304:ALA:O	2.37	0.43
1:G:1332:TYR:HA	1:G:1382:ALA:HA	2.01	0.43
1:G:1519:ILE:HG12	1:G:1521:PRO:CD	2.49	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1550:ASP:O	1:G:1551:LYS:C	2.57	0.43
1:G:1562:LYS:O	1:G:1564:LEU:N	2.52	0.43
1:G:1625:LEU:CD2	1:G:1626:TYR:CD1	3.02	0.43
1:G:1002:LYS:CE	1:G:1670:TYR:OH	2.67	0.43
1:G:491:UNK:O	1:G:492:UNK:C	2.66	0.43
1:G:669:UNK:O	1:G:670:UNK:O	2.35	0.43
1:G:694:GLN:HB3	1:G:725:TYR:CE2	2.54	0.43
1:G:826:MET:CE	1:G:847:GLU:HG3	2.46	0.43
1:G:994:GLU:O	1:G:995:LEU:O	2.36	0.43
2:H:1020:UNK:O	2:H:1022:UNK:N	2.32	0.43
2:H:1318:UNK:CB	2:H:1366:UNK:O	2.67	0.43
2:H:1451:UNK:O	2:H:1452:UNK:O	2.37	0.43
2:H:1828:VAL:O	2:H:1829:GLU:C	2.57	0.43
2:H:1869:GLU:C	2:H:1871:LEU:H	2.22	0.43
2:H:1871:LEU:C	2:H:1873:TYR:N	2.71	0.43
2:H:408:PRO:CG	2:H:409:PHE:N	2.80	0.43
2:H:267:LEU:HD23	2:H:457:ILE:HD13	2.01	0.43
2:H:653:UNK:O	2:H:657:UNK:N	2.52	0.43
1:A:1009:LEU:HD22	1:A:1446:LYS:HG3	2.01	0.43
1:A:1094:GLU:HG3	1:A:1095:THR:H	1.83	0.43
1:A:1144:PHE:H	1:A:1144:PHE:HD1	1.66	0.43
1:A:1284:SER:HB2	1:A:1298:ILE:HD11	2.00	0.43
1:A:1017:ARG:CZ	1:A:1320:LEU:HD13	2.49	0.43
1:A:1329:VAL:CG1	1:A:1330:GLY:H	2.14	0.43
1:A:1425:ILE:HG21	1:A:1648:GLN:OE1	2.19	0.43
1:A:1462:TRP:HE3	1:A:1463:VAL:N	2.17	0.43
1:A:1475:GLU:HA	1:A:1475:GLU:OE1	2.19	0.43
1:A:1491:ARG:HG2	1:A:1491:ARG:HH11	1.83	0.43
1:A:1493:ILE:HG13	1:A:1494:HIS:N	2.34	0.43
1:A:1502:ARG:O	1:A:1504:ALA:N	2.52	0.43
1:A:1433:HIS:HE1	1:A:1518:ARG:HH21	1.66	0.43
1:A:1625:LEU:HD11	1:A:1626:TYR:CD1	2.53	0.43
1:A:1641:ILE:HG12	1:A:1652:GLN:NE2	2.34	0.43
1:A:727:ALA:O	1:A:728:LYS:C	2.56	0.43
2:B:1357:UNK:CB	2:B:1406:UNK:N	2.81	0.43
2:B:1650:UNK:O	2:B:1652:UNK:N	2.52	0.43
2:B:1742:VAL:CG2	2:B:1837:THR:HA	2.49	0.43
2:B:1737:ILE:HD12	2:B:1755:ILE:HG21	1.99	0.43
2:B:432:LEU:HD21	2:B:484:ILE:HG22	2.01	0.43
1:D:998:TYR:O	1:D:1001:VAL:HB	2.19	0.43
1:D:1038:GLU:OE2	1:D:1049:GLY:HA3	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1189:ILE:CB	1:D:1190:PRO:HD3	2.49	0.43
1:D:1236:LYS:O	1:D:1236:LYS:CG	2.57	0.43
1:D:1553:GLU:HB2	1:D:1644:PHE:CE2	2.49	0.43
1:D:1719:LEU:CB	1:D:1737:ASN:OD1	2.67	0.43
1:D:695:GLY:C	1:D:697:LEU:N	2.72	0.43
1:D:860:ASN:HB2	1:D:861:GLN:NE2	2.34	0.43
2:E:1020:UNK:O	2:E:1022:UNK:N	2.36	0.43
2:E:1235:UNK:O	2:E:1236:UNK:CB	2.67	0.43
2:E:1724:GLU:O	2:E:1729:ILE:CB	2.67	0.43
2:E:1812:TYR:O	2:E:1814:ALA:N	2.43	0.43
2:E:215:ILE:O	2:E:215:ILE:HG22	2.17	0.43
2:E:267:LEU:HD23	2:E:457:ILE:HD13	2.01	0.43
2:E:543:PHE:C	2:E:545:GLN:H	2.22	0.43
1:G:1424:GLY:C	1:G:1426:LEU:N	2.69	0.43
1:G:1562:LYS:C	1:G:1564:LEU:N	2.71	0.43
1:G:1583:HIS:HE2	1:G:1588:ALA:HA	1.83	0.43
1:G:1811:UNK:C	1:G:1813:UNK:N	2.81	0.43
1:G:689:GLY:HA2	1:G:692:VAL:CB	2.48	0.43
1:G:826:MET:CA	1:G:826:MET:HE3	2.49	0.43
1:G:836:ASP:OD1	1:G:839:TYR:HB3	2.19	0.43
1:G:893:VAL:O	1:G:893:VAL:HG12	2.19	0.43
1:G:930:LEU:O	1:G:932:PHE:N	2.51	0.43
2:H:1012:UNK:O	2:H:1015:UNK:CB	2.66	0.43
2:H:101:ILE:HG13	2:H:126:TYR:CG	2.54	0.43
2:H:1680:LEU:CD2	2:H:1680:LEU:C	2.88	0.43
2:H:1929:LYS:HA	2:H:1929:LYS:HE2	2.01	0.43
2:H:174:ARG:HA	2:H:219:LEU:HD22	2.01	0.43
2:H:281:VAL:O	2:H:283:ILE:N	2.51	0.43
2:H:479:ILE:HG22	2:H:479:ILE:O	2.19	0.43
2:H:248:HIS:CB	2:H:529:VAL:HG11	2.49	0.43
1:A:1471:LYS:CA	1:A:1474:ALA:HB2	2.47	0.42
1:A:1515:ARG:NH1	1:A:1515:ARG:HG2	2.34	0.42
1:A:561:UNK:O	1:A:562:UNK:C	2.67	0.42
1:A:673:PHE:O	1:A:674:LYS:O	2.37	0.42
1:A:796:LEU:CG	1:A:797:THR:N	2.80	0.42
1:A:826:MET:HG3	1:A:867:ALA:N	2.34	0.42
1:A:861:GLN:C	1:A:862:LEU:HD23	2.40	0.42
1:A:886:GLU:C	1:A:888:ILE:H	2.23	0.42
2:B:1213:UNK:O	2:B:1214:UNK:O	2.37	0.42
2:B:1332:UNK:O	2:B:1334:UNK:N	2.52	0.42
2:B:1360:UNK:O	2:B:1362:UNK:N	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:145:LEU:HD22	2:B:550:UNK:O	2.19	0.42
2:B:157:VAL:HG12	2:B:158:ALA:N	2.34	0.42
2:B:1692:ASN:O	2:B:1696:ASN:CB	2.66	0.42
2:B:1983:UNK:O	2:B:1985:UNK:N	2.52	0.42
2:B:27:PHE:HA	2:B:30:ALA:HB3	2.01	0.42
2:B:824:UNK:HA	2:B:837:UNK:CB	2.49	0.42
3:C:2:UNK:C	3:C:4:UNK:N	2.82	0.42
1:D:1030:TRP:CD1	1:D:1030:TRP:N	2.87	0.42
1:D:1196:LYS:HZ2	1:D:1196:LYS:HB2	1.84	0.42
1:D:1286:TRP:HA	1:D:1289:MET:HG3	2.00	0.42
1:D:996:LYS:NZ	1:D:1400:ILE:CG1	2.82	0.42
1:D:1408:ALA:O	1:D:1409:THR:CG2	2.57	0.42
1:D:1706:TYR:HD1	1:D:1706:TYR:N	2.13	0.42
1:D:644:UNK:CB	1:D:647:UNK:C	2.96	0.42
2:E:1451:UNK:O	2:E:1452:UNK:O	2.36	0.42
2:E:1462:UNK:C	2:E:1464:UNK:N	2.81	0.42
2:E:1719:ILE:HG22	2:E:1721:PHE:CD1	2.54	0.42
2:E:1722:GLY:O	2:E:1723:GLY:C	2.57	0.42
2:E:1826:SER:O	2:E:1827:LEU:C	2.55	0.42
2:E:1903:ASP:O	2:E:1904:LEU:C	2.57	0.42
2:E:310:CYS:SG	2:E:484:ILE:HG21	2.59	0.42
2:E:344:LEU:CD1	2:E:345:THR:H	2.22	0.42
2:E:499:THR:O	2:E:500:HIS:ND1	2.52	0.42
2:E:515:LEU:O	2:E:518:ARG:HB2	2.18	0.42
2:E:517:HIS:CE1	2:E:538:ASP:OD1	2.72	0.42
2:E:557:UNK:O	2:E:777:UNK:CB	2.66	0.42
2:E:616:UNK:C	2:E:618:UNK:H	2.23	0.42
2:E:726:UNK:O	2:E:727:UNK:CB	2.66	0.42
2:E:729:UNK:O	2:E:731:UNK:N	2.52	0.42
1:G:1072:TYR:N	1:G:1072:TYR:CD1	2.87	0.42
1:G:1151:LYS:HD2	1:G:1151:LYS:N	2.33	0.42
1:G:1329:VAL:HG13	1:G:1384:ILE:HD12	2.01	0.42
1:G:1597:LEU:HD23	1:G:1597:LEU:N	2.34	0.42
1:G:1625:LEU:CD2	1:G:1626:TYR:HD1	2.32	0.42
1:G:1673:TYR:CZ	1:G:1677:VAL:HG21	2.54	0.42
1:G:1700:SER:CB	1:G:1702:GLU:OE2	2.67	0.42
1:G:622:UNK:C	1:G:624:UNK:N	2.78	0.42
2:H:1927:LEU:HA	2:H:1927:LEU:HD23	1.89	0.42
2:H:1932:SER:O	2:H:1936:VAL:HG12	2.19	0.42
2:H:2049:UNK:O	2:H:2051:UNK:N	2.51	0.42
2:H:221:ASN:C	2:H:223:SER:H	2.21	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:298:LYS:O	2:H:299:ALA:C	2.57	0.42
2:H:473:GLY:C	2:H:475:ILE:H	2.22	0.42
1:A:1072:TYR:N	1:A:1072:TYR:CD1	2.87	0.42
1:A:1094:GLU:OE2	1:A:1094:GLU:HA	2.19	0.42
1:A:1234:MET:O	1:A:1239:HIS:CD2	2.58	0.42
1:A:1286:TRP:HD1	1:A:1290:LEU:HD11	1.83	0.42
1:A:1547:LYS:O	1:A:1547:LYS:HG2	2.18	0.42
1:A:1618:LEU:O	1:A:1619:GLU:HB2	2.19	0.42
1:A:1408:ALA:CB	1:A:1651:GLY:C	2.81	0.42
1:A:1290:LEU:HG	1:A:1701:LYS:HZ3	1.84	0.42
1:A:279:UNK:C	1:A:281:UNK:N	2.81	0.42
1:A:677:TYR:C	1:A:678:VAL:HG23	2.39	0.42
1:A:788:SER:O	1:A:791:ALA:HB3	2.19	0.42
1:A:948:VAL:HG12	1:A:949:GLU:N	2.34	0.42
2:B:1042:UNK:C	2:B:1044:UNK:N	2.81	0.42
2:B:1692:ASN:O	2:B:1696:ASN:N	2.43	0.42
2:B:1730:ARG:C	2:B:1732:ASN:H	2.21	0.42
2:B:1833:TYR:C	2:B:1835:GLY:N	2.72	0.42
2:B:187:LEU:O	2:B:191:SER:OG	2.31	0.42
2:B:1968:UNK:C	2:B:1970:UNK:N	2.82	0.42
2:B:252:THR:O	2:B:256:LEU:HB2	2.19	0.42
2:B:246:LEU:CD1	2:B:296:VAL:HG13	2.47	0.42
2:B:499:THR:O	2:B:500:HIS:ND1	2.51	0.42
1:D:1015:LEU:CD2	1:D:1016:GLU:H	2.32	0.42
1:D:1033:ALA:O	1:D:1034:ARG:C	2.58	0.42
1:D:1073:THR:CG2	1:D:1074:GLY:H	2.31	0.42
1:D:1210:PRO:HB2	1:D:1211:ILE:H	1.55	0.42
1:D:1211:ILE:O	1:D:1212:THR:C	2.58	0.42
1:D:1284:SER:HB3	1:D:1298:ILE:HD11	2.01	0.42
1:D:1326:ILE:O	1:D:1326:ILE:HG22	2.19	0.42
1:D:1246:CYS:H	1:D:1328:ILE:CG2	2.31	0.42
1:D:438:UNK:CB	1:D:1358:HIS:HD2	2.33	0.42
1:D:1608:ASN:O	1:D:1610:ASN:ND2	2.51	0.42
1:D:1641:ILE:O	1:D:1642:THR:HB	2.19	0.42
2:E:1857:ILE:HG22	2:E:1858:ASN:N	2.34	0.42
2:E:1871:LEU:C	2:E:1873:TYR:N	2.71	0.42
2:E:1909:THR:HG23	2:E:1912:ASN:ND2	2.34	0.42
2:E:311:TYR:O	2:E:315:PRO:HB3	2.19	0.42
1:G:1398:VAL:HG22	1:G:1399:PRO:N	2.34	0.42
1:G:1403:ILE:CG2	1:G:1657:HIS:O	2.67	0.42
1:G:1447:TYR:O	1:G:1448:ARG:HB3	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1485:PHE:C	1:G:1485:PHE:CD2	2.92	0.42
1:G:177:UNK:O	1:G:178:UNK:C	2.66	0.42
1:G:491:UNK:C	1:G:493:UNK:N	2.80	0.42
1:G:695:GLY:O	1:G:696:LEU:C	2.57	0.42
1:G:810:LYS:O	1:G:811:SER:C	2.57	0.42
1:G:940:THR:HA	1:G:943:LEU:HD12	2.00	0.42
2:H:1830:VAL:HA	2:H:1833:TYR:HB2	2.00	0.42
2:H:1855:ILE:HB	2:H:1950:UNK:O	2.18	0.42
1:A:1067:LEU:C	1:A:1069:GLY:N	2.72	0.42
1:A:1283:MET:HE1	1:A:1283:MET:H	1.84	0.42
1:A:1243:VAL:CG1	1:A:1325:ARG:H	2.25	0.42
1:A:1329:VAL:HB	1:A:1385:GLN:O	2.19	0.42
1:A:1366:SER:O	1:A:1579:PHE:CD1	2.73	0.42
1:A:1376:PHE:CG	1:A:1377:MET:N	2.84	0.42
1:A:1573:ILE:HG23	1:A:1624:VAL:HG11	2.00	0.42
1:A:689:GLY:HA2	1:A:692:VAL:CB	2.48	0.42
1:A:719:GLN:HG3	1:A:720:SER:H	1.82	0.42
1:A:779:ILE:HD12	1:A:837:GLY:HA3	2.00	0.42
1:A:843:LYS:O	1:A:846:LEU:N	2.52	0.42
2:B:1559:UNK:HA	2:B:1564:UNK:CB	2.49	0.42
2:B:1897:GLN:O	2:B:1899:VAL:N	2.53	0.42
2:B:211:GLN:O	2:B:212:GLY:C	2.56	0.42
2:B:261:GLY:HA2	2:B:264:ARG:CG	2.49	0.42
2:B:262:GLU:O	2:B:265:SER:HB3	2.19	0.42
2:B:265:SER:OG	2:B:266:TYR:N	2.51	0.42
2:B:439:ILE:HG13	2:B:440:ASN:N	2.33	0.42
1:D:1141:ALA:CA	1:D:1144:PHE:CE1	2.98	0.42
1:D:1265:PHE:O	1:D:1265:PHE:CG	2.72	0.42
1:D:1391:ASP:O	1:D:1393:ALA:N	2.51	0.42
1:D:1616:LYS:C	1:D:1618:LEU:N	2.71	0.42
1:D:1692:MET:O	1:D:1692:MET:HG2	2.19	0.42
1:D:451:UNK:C	1:D:453:UNK:N	2.82	0.42
1:D:625:UNK:HA	1:D:628:UNK:CB	2.50	0.42
1:D:743:GLN:O	1:D:745:VAL:N	2.52	0.42
1:D:992:PHE:HA	1:D:993:PRO:HB2	2.01	0.42
2:E:1778:GLN:NE2	2:E:1835:GLY:HA2	2.34	0.42
2:E:1856:ALA:O	2:E:1857:ILE:HG12	2.19	0.42
2:E:1877:ARG:O	2:E:1878:VAL:HG13	2.19	0.42
2:E:335:PRO:HA	2:E:420:PHE:HE2	1.85	0.42
2:E:373:GLY:HA2	2:E:519:ASN:CG	2.38	0.42
2:E:408:PRO:CG	2:E:409:PHE:N	2.82	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:478:ARG:O	2:E:480:VAL:N	2.51	0.42
2:E:591:UNK:O	2:E:592:UNK:CB	2.66	0.42
1:G:1150:ASP:HB3	1:G:1151:LYS:H	1.69	0.42
1:G:1173:LEU:O	1:G:1174:TYR:O	2.36	0.42
1:G:1211:ILE:O	1:G:1214:PHE:N	2.52	0.42
1:G:1211:ILE:HG13	1:G:1283:MET:SD	2.59	0.42
1:G:1351:ASN:O	1:G:1352:THR:C	2.56	0.42
1:G:1471:LYS:CA	1:G:1474:ALA:HB2	2.48	0.42
1:G:1625:LEU:HD11	1:G:1626:TYR:CD1	2.55	0.42
1:G:1460:LYS:HD3	1:G:1778:UNK:CB	2.48	0.42
1:G:1782:UNK:C	1:G:1784:UNK:N	2.74	0.42
1:G:796:LEU:CG	1:G:797:THR:N	2.82	0.42
1:G:840:SER:OG	1:G:841:GLU:OE1	2.37	0.42
2:H:1738:PHE:HB2	2:H:1755:ILE:HG21	2.00	0.42
2:H:1742:VAL:CG2	2:H:1837:THR:HA	2.50	0.42
2:H:1931:LEU:O	2:H:1934:GLU:HB3	2.19	0.42
2:H:554:UNK:O	2:H:555:UNK:C	2.67	0.42
1:A:1010:GLU:OE1	1:A:1013:LEU:CD1	2.68	0.42
1:A:1423:LYS:CG	1:A:1424:GLY:H	2.27	0.42
1:A:1412:ASP:O	1:A:1425:ILE:HG23	2.19	0.42
1:A:1431:GLU:HG2	1:A:1522:LEU:HD13	2.01	0.42
1:A:1631:LEU:HB3	1:A:1634:ASP:HB2	2.00	0.42
1:A:1673:TYR:CZ	1:A:1677:VAL:HG21	2.55	0.42
1:A:298:UNK:O	1:A:299:UNK:C	2.67	0.42
1:A:491:UNK:O	1:A:492:UNK:C	2.67	0.42
1:A:669:UNK:O	1:A:670:UNK:O	2.38	0.42
1:A:796:LEU:C	1:A:800:LEU:HD23	2.40	0.42
1:A:813:ARG:HG3	1:A:813:ARG:HH11	1.83	0.42
1:A:884:ILE:HB	1:A:885:ALA:H	1.69	0.42
1:A:996:LYS:NZ	1:A:1400:ILE:CG1	2.83	0.42
2:B:1030:UNK:O	2:B:1031:UNK:CB	2.66	0.42
2:B:1323:UNK:O	2:B:1327:UNK:N	2.52	0.42
2:B:1549:UNK:O	2:B:1550:UNK:O	2.36	0.42
2:B:1731:GLU:CA	2:B:1735:ALA:HB3	2.49	0.42
2:B:1855:ILE:HB	2:B:1950:UNK:O	2.20	0.42
2:B:775:UNK:C	2:B:776:UNK:O	2.68	0.42
2:B:557:UNK:O	2:B:777:UNK:CB	2.67	0.42
2:B:819:UNK:O	2:B:820:UNK:C	2.67	0.42
3:C:29:UNK:O	3:C:32:UNK:N	2.53	0.42
1:D:1083:PRO:CG	1:D:1084:VAL:N	2.83	0.42
1:D:1471:LYS:CA	1:D:1474:ALA:HB2	2.48	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1641:ILE:HG12	1:D:1642:THR:H	1.84	0.42
1:D:1661:LEU:O	1:D:1662:TYR:CG	2.72	0.42
1:D:1665:ILE:O	1:D:1666:THR:CB	2.67	0.42
1:D:563:UNK:O	1:D:564:UNK:C	2.67	0.42
2:E:131:ILE:HG21	2:E:182:VAL:HG22	2.01	0.42
2:E:1684:SER:C	2:E:1686:ALA:N	2.72	0.42
2:E:1968:UNK:C	2:E:1970:UNK:N	2.82	0.42
2:E:801:UNK:C	2:E:803:UNK:N	2.79	0.42
2:E:88:LEU:HD21	2:E:130:ARG:HA	2.00	0.42
2:E:948:UNK:O	2:E:949:UNK:C	2.67	0.42
2:E:98:GLY:C	2:E:100:ASP:N	2.72	0.42
1:G:1040:GLU:O	1:G:1606:PRO:HG3	2.19	0.42
1:G:1133:PRO:HB2	1:G:1134:PHE:H	1.59	0.42
1:G:1108:PRO:CB	1:G:1362:PRO:HB2	2.49	0.42
1:G:1497:ALA:O	1:G:1499:SER:N	2.52	0.42
1:G:1522:LEU:N	1:G:1522:LEU:HD12	2.34	0.42
1:G:1547:LYS:HE3	1:G:1615:ASP:CB	2.49	0.42
1:G:1583:HIS:NE2	1:G:1588:ALA:HA	2.34	0.42
1:G:1604:ILE:CD1	1:G:1630:THR:HB	2.34	0.42
1:G:1641:ILE:CD1	1:G:1641:ILE:H	2.02	0.42
1:G:1640:SER:N	1:G:1654:ILE:HG13	2.35	0.42
1:G:1394:LEU:HA	1:G:1673:TYR:CE1	2.54	0.42
1:G:673:PHE:O	1:G:674:LYS:O	2.37	0.42
1:G:724:LYS:HD3	1:G:725:TYR:HE1	1.84	0.42
1:G:700:GLY:CA	1:G:727:ALA:HB3	2.39	0.42
1:G:826:MET:HB2	1:G:868:ILE:HG12	2.00	0.42
1:G:871:TRP:HH2	1:G:881:ASN:O	2.02	0.42
1:G:886:GLU:C	1:G:888:ILE:H	2.22	0.42
1:G:992:PHE:HA	1:G:993:PRO:HB2	2.00	0.42
2:H:1042:UNK:C	2:H:1044:UNK:N	2.82	0.42
2:H:1146:UNK:O	2:H:1147:UNK:C	2.67	0.42
2:H:1323:UNK:O	2:H:1327:UNK:N	2.52	0.42
2:H:1522:UNK:C	2:H:1524:UNK:N	2.82	0.42
2:H:149:VAL:HG22	2:H:155:GLN:CA	2.49	0.42
2:H:267:LEU:HD12	2:H:268:LYS:N	2.34	0.42
2:H:310:CYS:SG	2:H:484:ILE:HG21	2.59	0.42
2:H:31:SER:O	2:H:34:GLN:N	2.52	0.42
2:H:838:UNK:CB	2:H:841:UNK:CB	2.98	0.42
1:A:1023:GLY:N	1:A:1386:ILE:HG13	2.35	0.42
1:A:1060:ILE:HG22	1:A:1079:LYS:CB	2.33	0.42
1:A:1099:GLU:C	1:A:1102:GLY:H	2.14	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1110:LEU:HG	1:A:1189:ILE:H	1.83	0.42
1:A:1302:VAL:CG2	1:A:1303:GLY:H	2.19	0.42
1:A:1453:VAL:O	1:A:1454:THR:O	2.36	0.42
1:A:1502:ARG:C	1:A:1504:ALA:N	2.71	0.42
1:A:1621:PHE:O	1:A:1622:GLU:O	2.36	0.42
1:A:1641:ILE:CD1	1:A:1653:ALA:O	2.68	0.42
1:A:1665:ILE:HD12	1:A:1669:ARG:CB	2.49	0.42
1:A:173:UNK:O	1:A:174:UNK:C	2.66	0.42
1:A:520:UNK:C	1:A:522:UNK:N	2.79	0.42
1:A:591:UNK:O	1:A:592:UNK:C	2.67	0.42
1:A:610:UNK:O	1:A:611:UNK:O	2.37	0.42
1:A:717:TYR:CD2	1:A:718:TYR:CE1	3.01	0.42
1:A:698:GLN:HA	1:A:725:TYR:O	2.19	0.42
1:A:867:ALA:HB1	1:A:905:LEU:CD1	2.49	0.42
1:A:904:ASN:H	1:A:904:ASN:HD22	1.67	0.42
2:B:1718:THR:CB	2:B:1770:LEU:HD13	2.49	0.42
2:B:1733:TYR:HE1	2:B:1760:THR:CG2	2.32	0.42
2:B:1738:PHE:HB2	2:B:1755:ILE:HG21	2.01	0.42
2:B:1814:ALA:HA	2:B:1817:SER:OG	2.20	0.42
2:B:1857:ILE:HG22	2:B:1858:ASN:N	2.34	0.42
2:B:1871:LEU:C	2:B:1873:TYR:N	2.71	0.42
2:B:344:LEU:HD13	2:B:345:THR:N	2.21	0.42
2:B:389:LEU:HD12	2:B:389:LEU:O	2.20	0.42
2:B:512:LEU:O	2:B:513:GLY:C	2.57	0.42
2:B:817:UNK:O	2:B:818:UNK:C	2.66	0.42
1:D:1036:ARG:HE	1:D:1036:ARG:C	2.21	0.42
1:D:1039:MET:CE	1:D:1039:MET:HA	2.48	0.42
1:D:1406:MET:HB3	1:D:1654:ILE:HG22	2.02	0.42
1:D:141:UNK:C	1:D:143:UNK:N	2.80	0.42
1:D:1463:VAL:O	1:D:1464:GLU:C	2.58	0.42
1:D:1604:ILE:HG22	1:D:1605:ILE:HG12	2.01	0.42
1:D:719:GLN:OE1	1:D:1611:ALA:HB1	2.19	0.42
1:D:795:MET:HE3	1:D:839:TYR:HA	2.02	0.42
1:D:808:LYS:CE	1:D:808:LYS:HA	2.28	0.42
2:E:1020:UNK:C	2:E:1022:UNK:N	2.78	0.42
2:E:1332:UNK:O	2:E:1334:UNK:N	2.51	0.42
2:E:1420:UNK:O	2:E:1421:UNK:O	2.37	0.42
2:E:1702:TYR:O	2:E:1703:GLY:C	2.58	0.42
2:E:1828:VAL:CG1	2:E:1829:GLU:N	2.83	0.42
2:E:1939:HIS:CD2	2:E:1940:LEU:H	2.33	0.42
2:E:224:ASN:O	2:E:226:PRO:HD3	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:248:HIS:C	2:E:250:VAL:N	2.68	0.42
2:E:333:GLY:O	2:E:335:PRO:N	2.53	0.42
2:E:25:ALA:HB1	2:E:65:LEU:HD21	2.00	0.42
1:G:1039:MET:HE3	1:G:1039:MET:CA	2.48	0.42
1:G:1047:LEU:O	1:G:1049:GLY:N	2.53	0.42
1:G:1079:LYS:HE3	1:G:1097:ILE:HG12	2.01	0.42
1:G:1128:GLU:CB	1:G:1177:LYS:HG2	2.49	0.42
1:G:1241:SER:O	1:G:1243:VAL:N	2.38	0.42
1:G:1328:ILE:O	1:G:1385:GLN:O	2.38	0.42
1:G:1449:LYS:C	1:G:1451:GLN:N	2.71	0.42
1:G:1547:LYS:O	1:G:1547:LYS:HG2	2.19	0.42
1:G:1378:GLU:HB3	1:G:1585:LYS:HD2	1.97	0.42
1:G:622:UNK:O	1:G:623:UNK:C	2.67	0.42
1:G:631:UNK:C	1:G:632:UNK:O	2.66	0.42
1:G:904:ASN:H	1:G:904:ASN:HD22	1.64	0.42
1:G:673:PHE:HZ	1:G:906:LEU:O	2.01	0.42
2:H:1089:UNK:C	2:H:1136:UNK:N	2.83	0.42
2:H:1147:UNK:O	2:H:1148:UNK:CB	2.67	0.42
2:H:1258:UNK:C	2:H:1260:UNK:N	2.82	0.42
2:H:1484:UNK:O	2:H:1485:UNK:CB	2.67	0.42
2:H:1814:ALA:O	2:H:1815:LEU:C	2.57	0.42
2:H:1867:SER:CA	2:H:1870:ALA:HB3	2.48	0.42
2:H:1938:GLY:O	2:H:1939:HIS:HB2	2.20	0.42
2:H:2002:UNK:O	2:H:2005:UNK:CB	2.67	0.42
2:H:2040:UNK:O	2:H:2041:UNK:C	2.68	0.42
2:H:262:GLU:O	2:H:265:SER:HB3	2.20	0.42
2:H:335:PRO:HA	2:H:420:PHE:HE2	1.83	0.42
2:H:895:UNK:CB	2:H:898:UNK:CB	2.98	0.42
2:H:935:UNK:O	2:H:936:UNK:CB	2.68	0.42
2:H:946:UNK:C	2:H:948:UNK:N	2.83	0.42
1:A:1030:TRP:N	1:A:1030:TRP:CD1	2.88	0.42
1:A:1031:GLY:H	1:A:1035:THR:HG21	1.85	0.42
1:A:1108:PRO:O	1:A:1109:GLU:CB	2.67	0.42
1:A:1127:VAL:H	1:A:1179:LEU:HA	1.84	0.42
1:A:1179:LEU:N	1:A:1179:LEU:CD2	2.83	0.42
1:A:1189:ILE:CG2	1:A:1377:MET:CB	2.75	0.42
1:A:1197:THR:CB	1:A:1200:ILE:HG22	2.50	0.42
1:A:1222:ALA:O	1:A:1225:ALA:CB	2.67	0.42
1:A:1207:GLN:NE2	1:A:1277:GLU:OE1	2.52	0.42
1:A:1367:ARG:O	1:A:1370:THR:OG1	2.38	0.42
1:A:1470:LEU:O	1:A:1470:LEU:HD23	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1519:ILE:HD13	1:A:1521:PRO:HD2	1.97	0.42
1:A:1423:LYS:CA	1:A:1552:ASN:HD21	2.31	0.42
1:A:1028:GLY:CA	1:A:1591:TRP:HZ2	2.32	0.42
1:A:1733:PHE:HB2	1:A:1734:ASN:H	1.68	0.42
1:A:624:UNK:O	1:A:625:UNK:C	2.66	0.42
1:A:884:ILE:H	1:A:884:ILE:HG13	1.62	0.42
1:A:940:THR:HA	1:A:943:LEU:HD12	2.01	0.42
2:B:1012:UNK:O	2:B:1015:UNK:CB	2.67	0.42
2:B:1719:ILE:H	2:B:1719:ILE:HG13	1.62	0.42
2:B:1874:VAL:HG22	2:B:1928:GLN:OE1	2.19	0.42
2:B:267:LEU:HD12	2:B:269:GLY:H	1.84	0.42
2:B:345:THR:C	2:B:346:GLN:O	2.57	0.42
2:B:729:UNK:O	2:B:731:UNK:N	2.52	0.42
1:D:1089:VAL:HG23	1:D:1091:ALA:HB3	2.02	0.42
1:D:1160:THR:HB	1:D:1166:LYS:CE	2.43	0.42
1:D:1205:ILE:HG22	1:D:1213:LEU:HD11	2.00	0.42
1:D:1295:SER:OG	1:D:1706:TYR:OH	2.35	0.42
1:D:1342:GLU:C	1:D:1343:PHE:O	2.54	0.42
1:D:1417:SER:C	1:D:1418:VAL:CG2	2.88	0.42
1:D:1536:LEU:N	1:D:1536:LEU:HD12	2.25	0.42
1:D:1565:GLY:O	1:D:1566:ARG:O	2.37	0.42
1:D:1600:LEU:HB3	1:D:1601:ASN:H	1.66	0.42
1:D:1700:SER:HB3	1:D:1702:GLU:OE2	2.19	0.42
1:D:670:UNK:C	1:D:671:VAL:HG23	2.48	0.42
1:D:769:ILE:HA	1:D:823:ILE:HG13	2.02	0.42
1:D:826:MET:HG3	1:D:867:ALA:N	2.34	0.42
2:E:1689:ASP:N	2:E:1689:ASP:OD1	2.52	0.42
2:E:1822:MET:HE1	2:E:1830:VAL:CG1	2.49	0.42
2:E:1825:GLU:H	2:E:1825:GLU:HG2	1.55	0.42
2:E:1909:THR:HG21	2:E:1927:LEU:HD11	2.02	0.42
2:E:439:ILE:HG13	2:E:440:ASN:N	2.32	0.42
2:E:540:ASP:HB2	2:E:544:LYS:NZ	2.34	0.42
2:E:60:LEU:O	2:E:64:PHE:HB3	2.20	0.42
1:G:1029:PRO:HA	1:G:1193:TRP:NE1	2.35	0.42
1:G:1089:VAL:HG23	1:G:1091:ALA:HB3	2.01	0.42
1:G:1139:GLU:CG	1:G:1140:THR:H	2.32	0.42
1:G:1156:GLU:HG2	1:G:1170:GLY:N	2.34	0.42
1:G:1247:SER:O	1:G:1301:PRO:HD3	2.17	0.42
1:G:1461:ASP:O	1:G:1462:TRP:C	2.55	0.42
1:G:1736:LYS:HD3	1:G:1736:LYS:HA	1.86	0.42
1:G:521:UNK:O	1:G:523:UNK:N	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:769:ILE:HA	1:G:823:ILE:HG13	2.01	0.42
1:G:901:MET:HE3	1:G:901:MET:C	2.40	0.42
2:H:1173:UNK:CB	2:H:1180:UNK:CA	2.97	0.42
2:H:1519:UNK:O	2:H:1522:UNK:N	2.53	0.42
2:H:1689:ASP:HA	2:H:1692:ASN:HD22	1.84	0.42
2:H:1718:THR:HG23	2:H:1765:ARG:CB	2.49	0.42
2:H:1875:VAL:HG22	2:H:1880:LYS:O	2.20	0.42
2:H:1928:GLN:C	2:H:1930:SER:H	2.22	0.42
2:H:209:PHE:N	2:H:209:PHE:CD1	2.88	0.42
2:H:242:GLY:O	2:H:243:VAL:C	2.57	0.42
2:H:347:GLU:O	2:H:350:GLN:HB3	2.20	0.42
2:H:439:ILE:HG13	2:H:440:ASN:N	2.34	0.42
2:H:444:VAL:C	2:H:446:ASN:N	2.68	0.42
2:H:674:UNK:O	2:H:675:UNK:C	2.67	0.42
2:H:911:UNK:O	2:H:912:UNK:CB	2.67	0.42
1:A:1160:THR:CB	1:A:1166:LYS:HE3	2.40	0.42
1:A:1282:THR:HA	1:A:1285:ALA:HB3	2.01	0.42
1:A:1377:MET:O	1:A:1378:GLU:C	2.58	0.42
1:A:1394:LEU:HA	1:A:1673:TYR:CE1	2.54	0.42
1:A:1589:GLY:O	1:A:1592:MET:N	2.53	0.42
1:A:670:UNK:C	1:A:671:VAL:HG23	2.49	0.42
1:A:873:ARG:CG	1:A:874:GLY:N	2.81	0.42
2:B:160:PHE:O	2:B:273:HIS:N	2.51	0.42
2:B:1705:SER:OG	2:B:1708:ASP:CB	2.68	0.42
2:B:1724:GLU:O	2:B:1729:ILE:CB	2.66	0.42
2:B:1830:VAL:CG1	2:B:1831:VAL:N	2.80	0.42
2:B:2028:UNK:O	2:B:2029:UNK:O	2.37	0.42
2:B:333:GLY:O	2:B:335:PRO:N	2.53	0.42
2:B:335:PRO:O	2:B:336:SER:O	2.37	0.42
2:B:347:GLU:O	2:B:350:GLN:HB3	2.19	0.42
2:B:444:VAL:C	2:B:446:ASN:N	2.70	0.42
2:B:461:ASP:HB2	2:B:464:ASP:O	2.20	0.42
2:B:71:LEU:HD12	2:B:76:LYS:HZ3	1.84	0.42
2:B:799:UNK:O	2:B:802:UNK:N	2.53	0.42
1:D:1083:PRO:CG	1:D:1084:VAL:H	2.29	0.42
1:D:1094:GLU:C	1:D:1095:THR:O	2.57	0.42
1:D:1108:PRO:CB	1:D:1362:PRO:HB2	2.50	0.42
1:D:1197:THR:CB	1:D:1200:ILE:HG22	2.49	0.42
1:D:1352:THR:C	1:D:1353:LEU:O	2.58	0.42
1:D:1367:ARG:O	1:D:1370:THR:OG1	2.37	0.42
1:D:1371:THR:C	1:D:1373:ARG:N	2.73	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1462:TRP:CE3	1:D:1463:VAL:N	2.88	0.42
1:D:1522:LEU:HD12	1:D:1522:LEU:N	2.35	0.42
1:D:1583:HIS:N	1:D:1583:HIS:HD2	1.99	0.42
1:D:1615:ASP:OD1	1:D:1617:ILE:HG12	2.19	0.42
1:D:491:UNK:C	1:D:493:UNK:N	2.82	0.42
1:D:693:LEU:HD13	1:D:703:VAL:HG11	2.02	0.42
1:D:797:THR:O	1:D:800:LEU:CB	2.66	0.42
1:D:904:ASN:O	1:D:907:GLY:N	2.51	0.42
2:E:1804:PHE:CD1	2:E:1804:PHE:N	2.87	0.42
2:E:1995:UNK:O	2:E:1996:UNK:O	2.37	0.42
2:E:2036:UNK:O	2:E:2039:UNK:N	2.53	0.42
2:E:239:PRO:O	2:E:243:VAL:HG23	2.20	0.42
2:E:355:LYS:O	2:E:358:SER:HB2	2.20	0.42
2:E:41:LEU:HB3	2:E:46:GLU:OE2	2.19	0.42
2:E:882:UNK:O	2:E:884:UNK:N	2.53	0.42
1:G:1012:LEU:HD13	1:G:1664:ALA:HB2	2.02	0.42
1:G:1039:MET:HA	1:G:1039:MET:CE	2.46	0.42
1:G:1064:ASN:CG	1:G:1069:GLY:HA3	2.40	0.42
1:G:1138:LYS:HG2	1:G:1139:GLU:H	1.84	0.42
1:G:1247:SER:C	1:G:1248:GLY:O	2.58	0.42
1:G:1260:MET:HB3	1:G:1261:PHE:HD2	1.84	0.42
1:G:1118:LYS:HZ1	1:G:1337:GLU:HG3	1.82	0.42
1:G:1700:SER:CA	1:G:1701:LYS:HE3	2.49	0.42
1:G:1705:PRO:HB2	1:G:1731:LEU:HD12	2.01	0.42
1:G:1719:LEU:CB	1:G:1737:ASN:OD1	2.68	0.42
1:G:398:UNK:O	1:G:401:UNK:N	2.52	0.42
1:G:717:TYR:CD2	1:G:718:TYR:CD1	3.06	0.42
2:H:1455:UNK:O	2:H:1458:UNK:N	2.52	0.42
2:H:1594:UNK:C	2:H:1596:UNK:N	2.83	0.42
2:H:1632:UNK:O	2:H:1633:UNK:CB	2.67	0.42
2:H:1696:ASN:C	2:H:1698:PHE:N	2.72	0.42
2:H:1737:ILE:HD12	2:H:1755:ILE:HG21	2.01	0.42
2:H:267:LEU:HG	2:H:457:ILE:HD13	2.01	0.42
2:H:37:PHE:O	2:H:41:LEU:HD11	2.20	0.42
2:H:427:PHE:O	2:H:428:HIS:C	2.57	0.42
2:H:591:UNK:O	2:H:592:UNK:CB	2.66	0.42
2:H:649:UNK:O	2:H:650:UNK:C	2.67	0.42
2:H:760:UNK:O	2:H:761:UNK:C	2.68	0.42
2:H:95:TYR:O	2:H:104:LEU:HD13	2.20	0.42
2:H:998:UNK:O	2:H:999:UNK:C	2.67	0.42
1:A:1104:ARG:HA	1:A:1104:ARG:CZ	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1198:TYR:HD2	1:A:1217:VAL:HG22	1.84	0.42
1:A:1248:GLY:O	1:A:1249:SER:HB3	2.20	0.42
1:A:1394:LEU:HD23	1:A:1673:TYR:CZ	2.55	0.42
1:A:1451:GLN:CG	1:A:1452:LEU:N	2.78	0.42
1:A:1454:THR:CG2	1:A:1455:ARG:N	2.59	0.42
1:A:1552:ASN:OD1	1:A:1552:ASN:O	2.37	0.42
1:A:1405:ALA:CB	1:A:1654:ILE:O	2.62	0.42
1:A:1396:MET:CA	1:A:1676:LYS:HD3	2.21	0.42
1:A:684:GLY:O	1:A:690:ALA:HB2	2.20	0.42
1:A:680:ILE:CD1	1:A:705:VAL:HA	2.50	0.42
1:A:742:LYS:HA	1:A:745:VAL:HB	2.01	0.42
1:A:784:ILE:O	1:A:785:ASP:O	2.38	0.42
1:A:792:HIS:ND1	1:A:796:LEU:CD2	2.83	0.42
1:A:890:LYS:C	1:A:892:GLY:N	2.71	0.42
2:B:1502:UNK:O	2:B:1503:UNK:C	2.67	0.42
2:B:1830:VAL:HA	2:B:1833:TYR:HB2	2.01	0.42
2:B:1904:LEU:O	2:B:1908:ASP:HB2	2.20	0.42
2:B:1857:ILE:HG23	2:B:1949:UNK:CB	2.50	0.42
2:B:311:TYR:O	2:B:315:PRO:HB3	2.20	0.42
2:B:649:UNK:O	2:B:651:UNK:N	2.53	0.42
2:B:653:UNK:O	2:B:655:UNK:N	2.52	0.42
2:B:75:SER:C	2:B:77:VAL:N	2.68	0.42
2:B:796:UNK:O	2:B:797:UNK:O	2.37	0.42
1:D:1067:LEU:HA	1:D:1074:GLY:O	2.19	0.42
1:D:1260:MET:HB3	1:D:1261:PHE:HD2	1.83	0.42
1:D:1294:SER:C	1:D:1296:GLY:N	2.71	0.42
1:D:1431:GLU:HG2	1:D:1522:LEU:HD13	2.01	0.42
1:D:1502:ARG:O	1:D:1504:ALA:N	2.52	0.42
1:D:1547:LYS:O	1:D:1547:LYS:HG2	2.19	0.42
1:D:1625:LEU:HD11	1:D:1626:TYR:CD1	2.54	0.42
1:D:1706:TYR:HB2	1:D:1707:THR:H	1.65	0.42
1:D:565:UNK:O	1:D:569:UNK:N	2.53	0.42
1:D:622:UNK:O	1:D:623:UNK:C	2.67	0.42
1:D:625:UNK:O	1:D:628:UNK:N	2.53	0.42
1:D:749:ILE:HD12	1:D:806:VAL:CG2	2.46	0.42
1:D:776:GLU:HB3	1:D:779:ILE:HD11	2.02	0.42
1:D:843:LYS:O	1:D:844:LEU:C	2.58	0.42
2:E:1146:UNK:O	2:E:1147:UNK:C	2.67	0.42
2:E:1390:UNK:HA	2:E:1408:UNK:CB	2.50	0.42
2:E:1867:SER:O	2:E:1868:GLN:C	2.58	0.42
2:E:209:PHE:CD1	2:E:209:PHE:N	2.87	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:296:VAL:O	2:E:297:ARG:C	2.58	0.42
2:E:52:ASP:HB2	2:E:113:ASP:OD1	2.20	0.42
2:E:928:UNK:O	2:E:931:UNK:N	2.52	0.42
1:G:1103:ILE:HB	1:G:1104:ARG:H	1.55	0.42
1:G:1189:ILE:CB	1:G:1190:PRO:HD3	2.48	0.42
1:G:1208:VAL:HB	1:G:1212:THR:CB	2.50	0.42
1:G:1232:TYR:HE1	1:G:1705:PRO:CD	2.28	0.42
1:G:1329:VAL:HG11	1:G:1385:GLN:HB2	2.02	0.42
1:G:1546:THR:C	1:G:1548:ALA:H	2.21	0.42
1:G:1688:PHE:C	1:G:1690:ASN:N	2.72	0.42
1:G:797:THR:O	1:G:798:ASN:C	2.58	0.42
1:G:860:ASN:HB2	1:G:861:GLN:NE2	2.34	0.42
2:H:2028:UNK:O	2:H:2029:UNK:O	2.37	0.42
2:H:433:VAL:HA	2:H:436:SER:HB3	2.01	0.42
2:H:540:ASP:HB2	2:H:544:LYS:NZ	2.34	0.42
2:H:599:UNK:HA	2:H:602:UNK:CB	2.50	0.42
3:I:2:UNK:C	3:I:4:UNK:N	2.82	0.42
1:A:1038:GLU:OE2	1:A:1049:GLY:HA3	2.20	0.42
1:A:1211:ILE:O	1:A:1212:THR:C	2.56	0.42
1:A:1398:VAL:HG22	1:A:1399:PRO:N	2.34	0.42
1:A:1408:ALA:CB	1:A:1652:GLN:N	2.82	0.42
1:A:1504:ALA:C	1:A:1506:GLN:N	2.72	0.42
1:A:1700:SER:CA	1:A:1701:LYS:HE3	2.50	0.42
1:A:1700:SER:HB3	1:A:1702:GLU:OE2	2.19	0.42
1:A:563:UNK:O	1:A:564:UNK:C	2.68	0.42
1:A:622:UNK:C	1:A:624:UNK:N	2.80	0.42
1:A:625:UNK:O	1:A:628:UNK:CB	2.68	0.42
1:A:792:HIS:ND1	1:A:796:LEU:HD21	2.34	0.42
1:A:927:ASN:HD21	1:A:931:GLN:N	2.13	0.42
2:B:1582:UNK:O	2:B:1583:UNK:CB	2.68	0.42
2:B:164:GLY:O	2:B:166:THR:N	2.49	0.42
2:B:1825:GLU:HB2	2:B:1826:SER:H	1.52	0.42
2:B:149:VAL:O	2:B:266:TYR:CD2	2.73	0.42
2:B:354:ASN:O	2:B:356:THR:N	2.53	0.42
2:B:488:VAL:O	2:B:490:TRP:N	2.53	0.42
2:B:525:VAL:HG22	2:B:554:UNK:N	2.35	0.42
2:B:98:GLY:C	2:B:100:ASP:N	2.72	0.42
1:D:1030:TRP:CZ2	1:D:1580:LEU:CD1	3.02	0.42
1:D:1039:MET:SD	1:D:1043:GLY:O	2.78	0.42
1:D:1161:GLY:O	1:D:1162:GLU:O	2.38	0.42
1:D:1328:ILE:O	1:D:1385:GLN:O	2.38	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1379:ALA:N	1:D:1583:HIS:HB3	2.18	0.42
1:D:1585:LYS:HB3	1:D:1585:LYS:HE3	1.79	0.42
1:D:1614:VAL:HG12	1:D:1618:LEU:HD12	2.02	0.42
1:D:1002:LYS:CE	1:D:1670:TYR:OH	2.68	0.42
1:D:177:UNK:O	1:D:178:UNK:C	2.68	0.42
1:D:398:UNK:O	1:D:401:UNK:N	2.52	0.42
1:D:624:UNK:O	1:D:625:UNK:C	2.67	0.42
1:D:779:ILE:HD12	1:D:837:GLY:HA3	2.01	0.42
1:D:997:PRO:HG2	1:D:1002:LYS:CE	2.45	0.42
2:E:1550:UNK:O	2:E:1552:UNK:N	2.53	0.42
2:E:1559:UNK:HA	2:E:1564:UNK:CB	2.50	0.42
2:E:1587:UNK:O	2:E:1590:UNK:N	2.52	0.42
2:E:1680:LEU:C	2:E:1680:LEU:CD2	2.88	0.42
2:E:1738:PHE:HB2	2:E:1755:ILE:CB	2.50	0.42
2:E:22:VAL:N	2:E:23:PRO:HD2	2.35	0.42
2:E:676:UNK:N	2:E:680:UNK:CB	2.83	0.42
2:E:71:LEU:HD12	2:E:76:LYS:HZ3	1.84	0.42
1:G:1033:ALA:O	1:G:1034:ARG:C	2.57	0.42
1:G:1188:GLN:N	1:G:1188:GLN:CD	2.73	0.42
1:G:1264:ARG:C	1:G:1266:LYS:H	2.21	0.42
1:G:1288:ASN:ND2	1:G:1292:ILE:O	2.53	0.42
1:G:1376:PHE:N	1:G:1376:PHE:CD1	2.79	0.42
1:G:1393:ALA:HB1	1:G:1398:VAL:HG11	2.00	0.42
1:G:1502:ARG:C	1:G:1504:ALA:N	2.70	0.42
1:G:462:UNK:CB	1:G:1632:LYS:NZ	2.82	0.42
1:G:1639:VAL:HG21	1:G:1655:VAL:HG12	2.01	0.42
1:G:852:ARG:C	1:G:854:HIS:N	2.73	0.42
1:G:927:ASN:HD21	1:G:931:GLN:N	2.13	0.42
2:H:1013:UNK:C	2:H:1015:UNK:N	2.80	0.42
2:H:1056:UNK:C	2:H:1058:UNK:N	2.77	0.42
2:H:1726:GLY:O	2:H:1728:ARG:N	2.53	0.42
2:H:1830:VAL:CG1	2:H:1831:VAL:N	2.79	0.42
2:H:1874:VAL:CG2	2:H:1928:GLN:HE22	2.30	0.42
2:H:260:PRO:CG	2:H:292:PHE:HB2	2.39	0.42
2:H:375:LYS:HG3	2:H:376:ASN:N	2.30	0.42
2:H:408:PRO:O	2:H:410:SER:N	2.53	0.42
2:H:99:ASN:O	2:H:100:ASP:CB	2.68	0.42
1:A:1039:MET:SD	1:A:1043:GLY:O	2.78	0.42
1:A:1074:GLY:O	1:A:1075:TRP:CB	2.68	0.42
1:A:1162:GLU:O	1:A:1163:TYR:CG	2.72	0.42
1:A:1229:THR:HG23	1:A:1229:THR:O	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1423:LYS:N	1:A:1425:ILE:HB	2.35	0.42
1:A:1433:HIS:ND1	1:A:1434:SER:O	2.50	0.42
1:A:238:UNK:O	1:A:239:UNK:CB	2.68	0.42
1:A:622:UNK:O	1:A:623:UNK:C	2.67	0.42
1:A:692:VAL:HG22	1:A:902:ALA:HB1	2.00	0.42
1:A:678:VAL:HG21	1:A:767:ALA:HB3	2.00	0.42
2:B:1042:UNK:O	2:B:1044:UNK:N	2.52	0.42
2:B:131:ILE:CD1	2:B:182:VAL:CG1	2.98	0.42
2:B:161:GLY:HA2	2:B:512:LEU:CD1	2.49	0.42
2:B:1924:ILE:O	2:B:1926:GLU:N	2.53	0.42
2:B:221:ASN:C	2:B:223:SER:H	2.23	0.42
2:B:232:LEU:C	2:B:232:LEU:HD23	2.40	0.42
2:B:517:HIS:CE1	2:B:538:ASP:OD1	2.72	0.42
2:B:591:UNK:O	2:B:592:UNK:CB	2.68	0.42
1:D:1030:TRP:HB3	1:D:1035:THR:HG22	2.01	0.42
1:D:1080:THR:HG1	1:D:1083:PRO:HD2	1.85	0.42
1:D:1283:MET:H	1:D:1283:MET:HE1	1.85	0.42
1:D:1241:SER:HB2	1:D:1295:SER:HB2	2.02	0.42
1:D:1319:ILE:CD1	1:D:1325:ARG:HA	2.48	0.42
1:D:1428:THR:HG22	1:D:1428:THR:O	2.20	0.42
1:D:1519:ILE:HG12	1:D:1521:PRO:CD	2.49	0.42
1:D:1575:VAL:O	1:D:1576:PHE:CB	2.67	0.42
1:D:1378:GLU:HB3	1:D:1585:LYS:HD2	2.00	0.42
1:D:1290:LEU:HA	1:D:1701:LYS:CE	2.50	0.42
1:D:1700:SER:HA	1:D:1701:LYS:HE3	2.02	0.42
1:D:1737:ASN:OD1	1:D:1739:GLN:N	2.53	0.42
1:D:1745:UNK:C	1:D:1747:UNK:N	2.82	0.42
1:D:684:GLY:CA	1:D:718:TYR:OH	2.67	0.42
1:D:742:LYS:HG3	1:D:743:GLN:H	1.84	0.42
1:D:748:LEU:O	1:D:749:ILE:C	2.58	0.42
1:D:972:SER:O	1:D:973:ALA:CB	2.67	0.42
2:E:1584:UNK:O	2:E:1586:UNK:N	2.53	0.42
2:E:1814:ALA:O	2:E:1815:LEU:C	2.58	0.42
2:E:1864:ALA:N	2:E:1866:PHE:HB2	2.35	0.42
2:E:1929:LYS:HE2	2:E:1929:LYS:HA	2.01	0.42
2:E:232:LEU:C	2:E:232:LEU:HD23	2.39	0.42
2:E:674:UNK:O	2:E:675:UNK:C	2.68	0.42
1:G:1067:LEU:CG	1:G:1074:GLY:H	2.32	0.42
1:G:1398:VAL:HG13	1:G:1399:PRO:C	2.41	0.42
1:G:1504:ALA:O	1:G:1506:GLN:N	2.52	0.42
1:G:1665:ILE:O	1:G:1666:THR:CB	2.68	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:468:UNK:CB	1:G:523:UNK:CB	2.98	0.42
1:G:534:UNK:HA	1:G:537:UNK:CB	2.49	0.42
1:G:676:LYS:O	1:G:677:TYR:O	2.38	0.42
1:G:742:LYS:HA	1:G:745:VAL:HB	2.02	0.42
2:H:1432:UNK:O	2:H:1433:UNK:CB	2.68	0.42
2:H:169:TYR:O	2:H:172:GLU:N	2.48	0.42
2:H:1719:ILE:HG22	2:H:1721:PHE:CD1	2.54	0.42
2:H:1799:PRO:O	2:H:1800:ALA:C	2.58	0.42
2:H:2000:UNK:O	2:H:2002:UNK:N	2.53	0.42
2:H:23:PRO:HA	2:H:26:SER:HB2	2.00	0.42
2:H:286:THR:HG21	2:H:292:PHE:CD1	2.44	0.42
2:H:333:GLY:O	2:H:335:PRO:N	2.52	0.42
2:H:409:PHE:O	2:H:410:SER:CB	2.66	0.42
2:H:393:LEU:HG	2:H:418:ASN:OD1	2.19	0.42
2:H:59:GLU:HB3	2:H:125:ASN:ND2	2.34	0.42
2:H:88:LEU:HD21	2:H:130:ARG:HA	2.01	0.42
1:A:1208:VAL:HB	1:A:1212:THR:CB	2.50	0.41
1:A:1215:VAL:HG23	1:A:1216:LEU:N	2.35	0.41
1:A:1376:PHE:O	1:A:1377:MET:CG	2.67	0.41
1:A:1455:ARG:C	1:A:1457:ALA:N	2.73	0.41
1:A:1456:GLU:CA	1:A:1459:ILE:HG13	2.50	0.41
1:A:1501:LEU:HD23	1:A:1501:LEU:C	2.40	0.41
1:A:1557:ILE:HA	1:A:1560:MET:SD	2.60	0.41
1:A:1583:HIS:N	1:A:1583:HIS:HD2	1.98	0.41
1:A:1385:GLN:NE2	1:A:1593:MET:CG	2.69	0.41
1:A:1616:LYS:C	1:A:1618:LEU:N	2.72	0.41
1:A:221:UNK:O	1:A:222:UNK:C	2.67	0.41
1:A:455:UNK:O	1:A:459:UNK:N	2.53	0.41
1:A:742:LYS:HG3	1:A:743:GLN:H	1.84	0.41
2:B:1013:UNK:C	2:B:1015:UNK:N	2.80	0.41
2:B:14:GLY:O	2:B:18:HIS:ND1	2.53	0.41
2:B:1689:ASP:HA	2:B:1692:ASN:HD22	1.84	0.41
2:B:1694:ALA:O	2:B:1698:PHE:HB2	2.20	0.41
2:B:1729:ILE:CG2	2:B:1730:ARG:N	2.80	0.41
2:B:1931:LEU:HA	2:B:1934:GLU:CB	2.50	0.41
2:B:224:ASN:O	2:B:226:PRO:HD3	2.20	0.41
2:B:22:VAL:H	2:B:23:PRO:HD2	1.85	0.41
2:B:267:LEU:HD12	2:B:268:LYS:N	2.35	0.41
2:B:1:MET:HB3	2:B:2:ASP:H	1.58	0.41
2:B:463:PHE:CE1	2:B:489:LYS:HD2	2.55	0.41
2:B:52:ASP:HB2	2:B:113:ASP:OD1	2.18	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:541:TYR:O	2:B:543:PHE:CD1	2.74	0.41
2:B:841:UNK:O	2:B:843:UNK:N	2.52	0.41
1:D:1201:SER:HB3	1:D:1204:ILE:HG12	1.96	0.41
1:D:1216:LEU:HD11	1:D:1290:LEU:HD22	2.02	0.41
1:D:1237:TYR:O	1:D:1238:VAL:CG2	2.68	0.41
1:D:1240:VAL:HG13	1:D:1242:GLU:H	1.85	0.41
1:D:1245:ASN:O	1:D:1246:CYS:O	2.38	0.41
1:D:1273:ASP:O	1:D:1273:ASP:CG	2.58	0.41
1:D:1665:ILE:HD12	1:D:1669:ARG:CB	2.50	0.41
1:D:1003:GLN:HG3	1:D:1666:THR:OG1	2.20	0.41
1:D:495:UNK:O	1:D:496:UNK:C	2.68	0.41
2:E:1049:UNK:O	2:E:1051:UNK:N	2.53	0.41
2:E:1089:UNK:C	2:E:1136:UNK:N	2.83	0.41
2:E:1692:ASN:O	2:E:1696:ASN:CB	2.67	0.41
2:E:294:VAL:O	2:E:297:ARG:HB3	2.20	0.41
1:G:1060:ILE:HG22	1:G:1079:LYS:CB	2.34	0.41
1:G:1144:PHE:HD1	1:G:1144:PHE:H	1.67	0.41
1:G:1286:TRP:HA	1:G:1289:MET:HG3	2.01	0.41
1:G:1118:LYS:HZ3	1:G:1337:GLU:HG3	1.80	0.41
1:G:1478:PRO:HB2	1:G:1479:SER:H	1.63	0.41
1:G:1667:GLU:O	1:G:1669:ARG:N	2.53	0.41
1:G:434:UNK:O	1:G:435:UNK:CB	2.68	0.41
1:G:655:UNK:O	1:G:656:UNK:C	2.68	0.41
1:G:792:HIS:ND1	1:G:796:LEU:CD2	2.83	0.41
2:H:1718:THR:CB	2:H:1770:LEU:HD13	2.49	0.41
2:H:1716:ASN:C	2:H:1718:THR:N	2.72	0.41
2:H:1753:LYS:C	2:H:1755:ILE:N	2.73	0.41
2:H:1790:GLU:O	2:H:1791:ASP:C	2.57	0.41
2:H:1931:LEU:HA	2:H:1934:GLU:CB	2.50	0.41
2:H:404:GLN:C	2:H:406:ARG:N	2.72	0.41
2:H:499:THR:O	2:H:500:HIS:ND1	2.52	0.41
1:A:1020:VAL:HG22	1:A:1403:ILE:CA	2.46	0.41
1:A:1079:LYS:C	1:A:1080:THR:HG1	2.23	0.41
1:A:1112:ASN:C	1:A:1114:TYR:N	2.57	0.41
1:A:1179:LEU:HD23	1:A:1179:LEU:N	2.35	0.41
1:A:1230:ASP:HA	1:A:1231:PRO:HD2	1.76	0.41
1:A:1368:PRO:O	1:A:1369:ALA:O	2.38	0.41
1:A:1438:TYR:CD1	1:A:1439:ALA:N	2.88	0.41
1:A:1447:TYR:O	1:A:1449:LYS:N	2.53	0.41
1:A:1528:THR:O	1:A:1529:TYR:CD1	2.73	0.41
1:A:1333:ASP:HB2	1:A:1586:GLY:HA3	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1704:ALA:CB	1:A:1705:PRO:CD	2.93	0.41
1:A:786:SER:O	1:A:788:SER:N	2.54	0.41
1:A:841:GLU:CD	1:A:841:GLU:H	2.23	0.41
1:A:850:PHE:CE2	1:A:864:VAL:CG1	3.03	0.41
1:A:999:LYS:C	1:A:1001:VAL:N	2.74	0.41
2:B:1280:UNK:O	2:B:1282:UNK:N	2.53	0.41
2:B:1818:LEU:O	2:B:1819:ALA:O	2.37	0.41
2:B:1867:SER:O	2:B:1868:GLN:C	2.59	0.41
2:B:1875:VAL:HG22	2:B:1880:LYS:O	2.19	0.41
2:B:1903:ASP:O	2:B:1904:LEU:C	2.58	0.41
2:B:1905:ARG:HA	2:B:1908:ASP:HB3	2.02	0.41
2:B:1929:LYS:HE2	2:B:1929:LYS:N	2.34	0.41
2:B:296:VAL:O	2:B:297:ARG:C	2.58	0.41
2:B:515:LEU:O	2:B:518:ARG:HB2	2.19	0.41
1:D:1062:TYR:HB2	1:D:1077:ASP:OD1	2.20	0.41
1:D:1089:VAL:O	1:D:1090:LYS:C	2.58	0.41
1:D:1139:GLU:OE2	1:D:1166:LYS:O	2.36	0.41
1:D:1425:ILE:O	1:D:1426:LEU:CG	2.68	0.41
1:D:1572:VAL:HG23	1:D:1572:VAL:O	2.20	0.41
1:D:1658:PRO:C	1:D:1660:TYR:H	2.22	0.41
1:D:1701:LYS:CD	1:D:1701:LYS:N	2.83	0.41
1:D:574:UNK:O	1:D:575:UNK:C	2.66	0.41
1:D:586:UNK:O	1:D:588:UNK:N	2.53	0.41
1:D:911:PRO:O	1:D:913:VAL:N	2.52	0.41
2:E:1502:UNK:O	2:E:1503:UNK:C	2.68	0.41
2:E:1674:GLN:HE21	2:E:1712:ASN:HA	1.85	0.41
2:E:1:MET:HB3	2:E:2:ASP:H	1.57	0.41
2:E:383:PRO:HG2	2:E:384:GLN:H	1.84	0.41
2:E:474:SER:O	2:E:475:ILE:CB	2.67	0.41
2:E:817:UNK:O	2:E:825:UNK:HA	2.20	0.41
2:E:935:UNK:O	2:E:936:UNK:CB	2.68	0.41
3:F:2:UNK:C	3:F:4:UNK:N	2.82	0.41
1:G:1010:GLU:O	1:G:1011:GLY:C	2.56	0.41
1:G:1036:ARG:O	1:G:1039:MET:N	2.52	0.41
1:G:1073:THR:CG2	1:G:1074:GLY:H	2.33	0.41
1:G:1094:GLU:C	1:G:1095:THR:O	2.57	0.41
1:G:1127:VAL:H	1:G:1179:LEU:HA	1.85	0.41
1:G:1148:HIS:C	1:G:1150:ASP:N	2.60	0.41
1:G:1155:PHE:O	1:G:1156:GLU:CB	2.63	0.41
1:G:1184:LEU:HD12	1:G:1185:VAL:N	2.35	0.41
1:G:1028:GLY:C	1:G:1193:TRP:HE1	2.23	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1210:PRO:HB2	1:G:1211:ILE:H	1.53	0.41
1:G:1275:LEU:HD13	1:G:1275:LEU:O	2.19	0.41
1:G:1462:TRP:HE3	1:G:1462:TRP:C	2.23	0.41
1:G:1423:LYS:CA	1:G:1552:ASN:HD21	2.33	0.41
1:G:1618:LEU:O	1:G:1619:GLU:HB2	2.20	0.41
1:G:1641:ILE:HG12	1:G:1642:THR:H	1.84	0.41
1:G:1641:ILE:O	1:G:1642:THR:HB	2.19	0.41
1:G:1646:PHE:O	1:G:1648:GLN:N	2.53	0.41
1:G:1737:ASN:OD1	1:G:1739:GLN:N	2.53	0.41
1:G:691:GLU:O	1:G:694:GLN:HB2	2.20	0.41
2:H:1012:UNK:O	2:H:1013:UNK:O	2.38	0.41
2:H:1698:PHE:O	2:H:1702:TYR:N	2.50	0.41
2:H:1724:GLU:O	2:H:1729:ILE:HA	2.20	0.41
2:H:1738:PHE:C	2:H:1740:THR:H	2.22	0.41
2:H:1806:GLY:HA3	2:H:1811:GLU:CG	2.49	0.41
2:H:1830:VAL:O	2:H:1834:ARG:N	2.49	0.41
2:H:239:PRO:O	2:H:243:VAL:HG23	2.20	0.41
2:H:259:THR:C	2:H:261:GLY:N	2.73	0.41
2:H:259:THR:HG22	2:H:288:SER:HA	2.00	0.41
2:H:342:SER:OG	2:H:343:ASN:N	2.53	0.41
2:H:355:LYS:HA	2:H:358:SER:OG	2.20	0.41
2:H:711:UNK:O	2:H:712:UNK:CB	2.68	0.41
1:A:1064:ASN:CG	1:A:1069:GLY:HA3	2.39	0.41
1:A:1087:LYS:HB3	1:A:1088:ASP:H	1.48	0.41
1:A:1151:LYS:CG	1:A:1175:ILE:CD1	2.98	0.41
1:A:1237:TYR:O	1:A:1238:VAL:CG2	2.68	0.41
1:A:1319:ILE:CD1	1:A:1325:ARG:HA	2.49	0.41
1:A:151:UNK:C	1:A:153:UNK:N	2.83	0.41
1:A:1637:ARG:HB3	1:A:1638:ALA:H	1.56	0.41
1:A:503:UNK:C	1:A:505:UNK:N	2.76	0.41
1:A:543:UNK:C	1:A:545:UNK:N	2.82	0.41
1:A:797:THR:O	1:A:800:LEU:CB	2.66	0.41
1:A:990:LEU:HD23	1:A:1685:TYR:CE2	2.55	0.41
2:B:1011:UNK:O	2:B:1012:UNK:CB	2.68	0.41
2:B:1248:UNK:C	2:B:1250:UNK:N	2.84	0.41
2:B:59:GLU:HB3	2:B:125:ASN:ND2	2.35	0.41
2:B:1726:GLY:O	2:B:1728:ARG:N	2.53	0.41
2:B:1828:VAL:O	2:B:1829:GLU:C	2.58	0.41
2:B:1869:GLU:C	2:B:1871:LEU:H	2.23	0.41
2:B:263:LEU:O	2:B:265:SER:N	2.52	0.41
2:B:334:VAL:HA	2:B:335:PRO:HD2	1.90	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:408:PRO:O	2:B:410:SER:N	2.53	0.41
2:B:82:GLN:O	2:B:85:ASN:N	2.53	0.41
2:B:905:UNK:C	2:B:907:UNK:N	2.83	0.41
1:D:1023:GLY:N	1:D:1386:ILE:HG13	2.34	0.41
1:D:1029:PRO:HA	1:D:1193:TRP:NE1	2.35	0.41
1:D:1416:ARG:O	1:D:1417:SER:HB3	2.21	0.41
1:D:1426:LEU:HD22	1:D:1650:GLY:CA	2.47	0.41
1:D:1544:THR:C	1:D:1546:THR:H	2.23	0.41
1:D:1581:THR:HB	1:D:1582:GLY:H	1.21	0.41
1:D:1706:TYR:C	1:D:1707:THR:HG22	2.40	0.41
1:D:737:PHE:CD1	1:D:748:LEU:CD2	3.03	0.41
1:D:755:THR:CG2	1:D:756:GLU:N	2.82	0.41
1:D:788:SER:O	1:D:791:ALA:HB3	2.19	0.41
1:D:810:LYS:C	1:D:812:ALA:N	2.71	0.41
1:D:673:PHE:HZ	1:D:906:LEU:O	2.03	0.41
1:D:927:ASN:HD21	1:D:931:GLN:N	2.15	0.41
2:E:1280:UNK:O	2:E:1282:UNK:N	2.53	0.41
2:E:169:TYR:O	2:E:172:GLU:N	2.48	0.41
2:E:1807:HIS:O	2:E:1808:SER:HB3	2.21	0.41
2:E:1907:LEU:H	2:E:1907:LEU:CD2	2.12	0.41
2:E:2002:UNK:O	2:E:2005:UNK:CB	2.68	0.41
2:E:195:LEU:HD11	2:E:239:PRO:HB2	2.03	0.41
2:E:432:LEU:HD21	2:E:484:ILE:HG22	2.02	0.41
2:E:620:UNK:O	2:E:623:UNK:N	2.53	0.41
2:E:627:UNK:C	2:E:629:UNK:H	2.32	0.41
2:E:760:UNK:O	2:E:761:UNK:C	2.67	0.41
1:G:1250:GLY:CA	1:G:1333:ASP:OD2	2.68	0.41
1:G:1506:GLN:HA	1:G:1510:ASN:ND2	2.20	0.41
1:G:1554:SER:O	1:G:1555:ALA:HB2	2.19	0.41
1:G:1575:VAL:O	1:G:1576:PHE:CB	2.68	0.41
1:G:1705:PRO:HG2	1:G:1706:TYR:CE1	2.55	0.41
1:G:389:UNK:O	1:G:391:UNK:N	2.53	0.41
1:G:996:LYS:HZ1	1:G:1400:ILE:HG12	1.84	0.41
2:H:1047:UNK:O	2:H:1048:UNK:C	2.68	0.41
2:H:1249:UNK:O	2:H:1251:UNK:N	2.54	0.41
2:H:1360:UNK:O	2:H:1362:UNK:N	2.53	0.41
2:H:1477:UNK:C	2:H:1484:UNK:CB	2.98	0.41
2:H:1555:UNK:O	2:H:1557:UNK:N	2.54	0.41
2:H:1628:UNK:O	2:H:1629:UNK:C	2.68	0.41
2:H:1698:PHE:CE2	2:H:1704:PHE:CZ	3.09	0.41
2:H:1695:ASP:OD2	2:H:1705:SER:HB2	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:37:PHE:HD2	2:H:37:PHE:HA	1.67	0.41
2:H:478:ARG:O	2:H:480:VAL:N	2.50	0.41
2:H:515:LEU:O	2:H:518:ARG:HB2	2.20	0.41
2:H:525:VAL:HG22	2:H:554:UNK:N	2.36	0.41
2:H:63:LYS:O	2:H:64:PHE:C	2.59	0.41
2:H:670:UNK:CA	2:H:694:UNK:CB	2.97	0.41
2:H:775:UNK:C	2:H:776:UNK:O	2.68	0.41
2:H:841:UNK:O	2:H:843:UNK:N	2.53	0.41
1:A:1369:ALA:N	1:A:1550:ASP:OD2	2.54	0.41
1:A:1667:GLU:O	1:A:1669:ARG:N	2.53	0.41
1:A:534:UNK:C	1:A:536:UNK:N	2.81	0.41
1:A:580:UNK:C	1:A:582:UNK:N	2.83	0.41
2:B:1258:UNK:C	2:B:1260:UNK:N	2.82	0.41
2:B:1672:GLN:HB2	2:B:1676:MET:HE3	2.00	0.41
2:B:1702:TYR:O	2:B:1703:GLY:C	2.58	0.41
2:B:1707:LEU:O	2:B:1710:VAL:N	2.54	0.41
2:B:1742:VAL:CG2	2:B:1751:ILE:HD11	2.51	0.41
2:B:1771:LEU:HD12	2:B:1771:LEU:HA	1.85	0.41
2:B:2049:UNK:O	2:B:2051:UNK:N	2.53	0.41
2:B:339:LEU:HB2	2:B:420:PHE:HD1	1.85	0.41
2:B:455:ILE:O	2:B:456:GLN:O	2.38	0.41
2:B:620:UNK:O	2:B:623:UNK:N	2.53	0.41
1:D:1015:LEU:HD23	1:D:1018:VAL:CG1	2.47	0.41
1:D:1079:LYS:HE3	1:D:1097:ILE:HG12	2.03	0.41
1:D:1118:LYS:O	1:D:1118:LYS:CG	2.66	0.41
1:D:1367:ARG:HB2	1:D:1370:THR:OG1	2.20	0.41
1:D:1497:ALA:O	1:D:1499:SER:N	2.53	0.41
1:D:1581:THR:O	1:D:1582:GLY:C	2.58	0.41
1:D:1403:ILE:CG2	1:D:1657:HIS:O	2.69	0.41
1:D:209:UNK:O	1:D:213:UNK:CB	2.68	0.41
1:D:543:UNK:C	1:D:545:UNK:N	2.83	0.41
1:D:684:GLY:O	1:D:690:ALA:HB2	2.20	0.41
1:D:853:TRP:CE2	1:D:859:ALA:HB1	2.55	0.41
1:D:901:MET:HE3	1:D:905:LEU:CD2	2.49	0.41
2:E:1047:UNK:O	2:E:1048:UNK:C	2.67	0.41
2:E:1147:UNK:O	2:E:1148:UNK:CB	2.69	0.41
2:E:1692:ASN:O	2:E:1696:ASN:N	2.43	0.41
2:E:1718:THR:HG23	2:E:1765:ARG:CB	2.51	0.41
2:E:1726:GLY:O	2:E:1728:ARG:N	2.54	0.41
2:E:1830:VAL:HA	2:E:1833:TYR:HB2	2.03	0.41
2:E:1928:GLN:C	2:E:1930:SER:H	2.24	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:421:LEU:HB3	2:E:422:PRO:CD	2.49	0.41
2:E:474:SER:C	2:E:476:SER:H	2.24	0.41
2:E:484:ILE:O	2:E:485:ARG:HB2	2.20	0.41
2:E:490:TRP:CD1	2:E:494:THR:HG23	2.56	0.41
2:E:525:VAL:HG22	2:E:554:UNK:N	2.36	0.41
2:E:544:LYS:HZ1	2:E:552:UNK:CB	2.33	0.41
2:E:711:UNK:O	2:E:712:UNK:CB	2.68	0.41
2:E:742:UNK:O	2:E:743:UNK:C	2.68	0.41
1:G:1010:GLU:OE1	1:G:1013:LEU:HD11	2.19	0.41
1:G:1141:ALA:O	1:G:1142:GLU:HB2	2.21	0.41
1:G:1265:PHE:O	1:G:1265:PHE:CG	2.73	0.41
1:G:1376:PHE:CG	1:G:1377:MET:N	2.87	0.41
1:G:1522:LEU:H	1:G:1522:LEU:CD1	2.34	0.41
1:G:1572:VAL:HG23	1:G:1572:VAL:O	2.20	0.41
1:G:1366:SER:O	1:G:1579:PHE:CD1	2.74	0.41
1:G:610:UNK:O	1:G:611:UNK:O	2.39	0.41
1:G:884:ILE:H	1:G:884:ILE:HG13	1.59	0.41
2:H:135:ARG:O	2:H:136:PRO:C	2.59	0.41
2:H:1638:UNK:O	2:H:1639:UNK:C	2.68	0.41
2:H:1705:SER:OG	2:H:1708:ASP:CB	2.67	0.41
2:H:1715:VAL:HG23	2:H:1770:LEU:CB	2.46	0.41
2:H:1755:ILE:H	2:H:1755:ILE:HG12	1.54	0.41
2:H:195:LEU:HD11	2:H:239:PRO:HB2	2.03	0.41
2:H:490:TRP:CD1	2:H:494:THR:HG23	2.55	0.41
2:H:9:LEU:CD1	2:H:58:ALA:HB2	2.50	0.41
2:H:56:THR:CA	2:H:59:GLU:HG2	2.50	0.41
2:H:673:UNK:O	2:H:674:UNK:C	2.68	0.41
2:H:772:UNK:CB	2:H:777:UNK:O	2.68	0.41
2:H:819:UNK:O	2:H:820:UNK:C	2.69	0.41
1:A:1047:LEU:O	1:A:1049:GLY:N	2.54	0.41
1:A:1118:LYS:HG3	1:A:1120:GLU:CG	2.50	0.41
1:A:1176:PRO:C	1:A:1177:LYS:HG3	2.40	0.41
1:A:1189:ILE:CB	1:A:1190:PRO:CD	2.98	0.41
1:A:1202:ASP:O	1:A:1203:ASP:OD1	2.38	0.41
1:A:1248:GLY:O	1:A:1301:PRO:HD2	2.21	0.41
1:A:1290:LEU:HA	1:A:1701:LYS:CE	2.50	0.41
1:A:1519:ILE:CG1	1:A:1523:ARG:HB3	2.50	0.41
1:A:625:UNK:HA	1:A:628:UNK:CB	2.50	0.41
2:B:1720:HIS:CB	2:B:1762:TYR:O	2.68	0.41
2:B:1721:PHE:C	2:B:1723:GLY:N	2.70	0.41
2:B:274:SER:HB3	2:B:428:HIS:NE2	2.36	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:404:GLN:O	2:B:405:SER:C	2.59	0.41
2:B:41:LEU:HB3	2:B:46:GLU:OE2	2.20	0.41
2:B:473:GLY:C	2:B:475:ILE:H	2.23	0.41
2:B:544:LYS:NZ	2:B:552:UNK:CB	2.83	0.41
2:B:567:UNK:CA	2:B:572:UNK:O	2.68	0.41
2:B:25:ALA:HB1	2:B:65:LEU:HD21	2.03	0.41
2:B:737:UNK:O	2:B:738:UNK:C	2.67	0.41
2:B:744:UNK:O	2:B:746:UNK:N	2.53	0.41
2:B:838:UNK:CB	2:B:841:UNK:CB	2.98	0.41
2:B:935:UNK:O	2:B:936:UNK:CB	2.68	0.41
1:D:1172:THR:O	1:D:1173:LEU:HB2	2.20	0.41
1:D:1232:TYR:C	1:D:1234:MET:N	2.68	0.41
1:D:1264:ARG:O	1:D:1266:LYS:N	2.54	0.41
1:D:1426:LEU:HD12	1:D:1427:THR:OG1	2.20	0.41
1:D:1539:ALA:O	1:D:1541:PHE:HD1	2.04	0.41
1:D:1547:LYS:HE3	1:D:1615:ASP:CB	2.49	0.41
1:D:1642:THR:CA	1:D:1652:GLN:OE1	2.68	0.41
1:D:1811:UNK:C	1:D:1813:UNK:N	2.81	0.41
1:D:1860:UNK:C	1:D:1862:UNK:N	2.82	0.41
1:D:491:UNK:O	1:D:492:UNK:C	2.68	0.41
1:D:541:UNK:C	1:D:543:UNK:N	2.80	0.41
1:D:610:UNK:O	1:D:611:UNK:O	2.37	0.41
1:D:615:UNK:C	1:D:617:UNK:N	2.82	0.41
1:D:706:THR:OG1	1:D:737:PHE:HB3	2.21	0.41
2:E:63:LYS:HB2	2:E:125:ASN:ND2	2.35	0.41
2:E:1258:UNK:C	2:E:1260:UNK:N	2.84	0.41
2:E:1522:UNK:C	2:E:1524:UNK:N	2.83	0.41
2:E:1715:VAL:CG1	2:E:1716:ASN:H	2.27	0.41
2:E:1726:GLY:O	2:E:1727:LYS:C	2.59	0.41
2:E:1737:ILE:CD1	2:E:1755:ILE:HD12	2.51	0.41
2:E:347:GLU:O	2:E:350:GLN:HB3	2.20	0.41
2:E:305:PHE:CE2	2:E:442:ASP:HB3	2.55	0.41
2:E:473:GLY:O	2:E:474:SER:HB2	2.21	0.41
2:E:56:THR:O	2:E:59:GLU:CB	2.69	0.41
1:G:1301:PRO:HB2	1:G:1310:GLU:HG2	2.02	0.41
1:G:1367:ARG:HB2	1:G:1370:THR:OG1	2.20	0.41
1:G:1408:ALA:CB	1:G:1652:GLN:N	2.83	0.41
1:G:1438:TYR:CD1	1:G:1439:ALA:N	2.86	0.41
1:G:1455:ARG:C	1:G:1457:ALA:N	2.74	0.41
1:G:1431:GLU:HG2	1:G:1522:LEU:HD13	2.02	0.41
1:G:1641:ILE:HG12	1:G:1652:GLN:NE2	2.34	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1408:ALA:CA	1:G:1652:GLN:O	2.68	0.41
2:H:1689:ASP:N	2:H:1689:ASP:OD1	2.53	0.41
2:H:1720:HIS:CB	2:H:1763:THR:HG1	2.34	0.41
2:H:1812:TYR:O	2:H:1816:ALA:N	2.50	0.41
2:H:1825:GLU:H	2:H:1825:GLU:HG2	1.57	0.41
2:H:1864:ALA:N	2:H:1866:PHE:HB2	2.34	0.41
2:H:1912:ASN:O	2:H:1913:VAL:CG2	2.67	0.41
2:H:296:VAL:O	2:H:297:ARG:C	2.58	0.41
2:H:627:UNK:C	2:H:629:UNK:H	2.34	0.41
1:A:1020:VAL:HG12	1:A:1021:VAL:N	2.35	0.41
1:A:1079:LYS:HE3	1:A:1097:ILE:HG12	2.02	0.41
1:A:1289:MET:C	1:A:1290:LEU:HD12	2.41	0.41
1:A:1332:TYR:N	1:A:1587:ALA:CB	2.70	0.41
1:A:1423:LYS:CG	1:A:1424:GLY:N	2.83	0.41
1:A:1501:LEU:HD23	1:A:1501:LEU:O	2.21	0.41
1:A:1538:VAL:HG21	1:A:1639:VAL:HA	1.94	0.41
1:A:1680:ARG:O	1:A:1683:SER:HB2	2.21	0.41
1:A:534:UNK:O	1:A:535:UNK:C	2.69	0.41
1:A:753:TYR:CD1	1:A:809:GLN:HG2	2.56	0.41
2:B:1638:UNK:O	2:B:1639:UNK:C	2.68	0.41
2:B:168:ASP:O	2:B:169:TYR:HB2	2.21	0.41
2:B:1880:LYS:CD	2:B:1899:VAL:HG13	2.40	0.41
2:B:259:THR:C	2:B:261:GLY:N	2.73	0.41
2:B:267:LEU:CD2	2:B:457:ILE:HD13	2.51	0.41
2:B:304:PHE:CD2	2:B:305:PHE:N	2.89	0.41
2:B:885:UNK:O	2:B:886:UNK:CB	2.67	0.41
1:D:1193:TRP:HB2	1:D:1194:ASN:H	1.38	0.41
1:D:1248:GLY:O	1:D:1300:THR:HA	2.19	0.41
1:D:1323:LYS:O	1:D:1324:ALA:CB	2.64	0.41
1:D:1424:GLY:C	1:D:1426:LEU:N	2.69	0.41
1:D:1455:ARG:C	1:D:1457:ALA:N	2.73	0.41
1:D:1028:GLY:CA	1:D:1591:TRP:HZ2	2.32	0.41
1:D:1637:ARG:HB3	1:D:1638:ALA:H	1.56	0.41
1:D:1673:TYR:CZ	1:D:1677:VAL:HG21	2.55	0.41
1:D:1705:PRO:HB2	1:D:1731:LEU:HD12	2.02	0.41
1:D:1713:ASP:O	1:D:1714:VAL:C	2.58	0.41
1:D:625:UNK:O	1:D:628:UNK:CB	2.69	0.41
1:D:784:ILE:O	1:D:785:ASP:O	2.38	0.41
2:E:1638:UNK:O	2:E:1639:UNK:C	2.68	0.41
2:E:1853:GLY:O	2:E:1854:MET:CB	2.69	0.41
2:E:177:TYR:CD2	2:E:219:LEU:HB3	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:2:ASP:OD2	2:E:2:ASP:N	2.54	0.41
2:E:698:UNK:H	2:E:702:UNK:CB	2.33	0.41
1:G:1030:TRP:HB3	1:G:1035:THR:HG22	2.02	0.41
1:G:1063:HIS:HD2	1:G:1065:GLY:CA	2.34	0.41
1:G:1094:GLU:HG3	1:G:1095:THR:H	1.85	0.41
1:G:1108:PRO:CG	1:G:1362:PRO:HB2	2.51	0.41
1:G:1230:ASP:HA	1:G:1231:PRO:HD2	1.76	0.41
1:G:1245:ASN:O	1:G:1246:CYS:O	2.38	0.41
1:G:1275:LEU:O	1:G:1278:SER:HB3	2.21	0.41
1:G:1417:SER:C	1:G:1418:VAL:CG2	2.89	0.41
1:G:1419:PRO:O	1:G:1420:ALA:CB	2.68	0.41
1:G:1427:THR:O	1:G:1430:ARG:HB3	2.21	0.41
1:G:1433:HIS:HE1	1:G:1518:ARG:HH21	1.66	0.41
1:G:1621:PHE:O	1:G:1622:GLU:O	2.39	0.41
1:G:1408:ALA:N	1:G:1653:ALA:HB2	2.33	0.41
1:G:1406:MET:CB	1:G:1654:ILE:HG22	2.50	0.41
1:G:1745:UNK:C	1:G:1747:UNK:N	2.82	0.41
1:G:221:UNK:O	1:G:222:UNK:C	2.69	0.41
1:G:580:UNK:C	1:G:582:UNK:N	2.83	0.41
1:G:904:ASN:N	1:G:904:ASN:ND2	2.58	0.41
1:G:948:VAL:HG12	1:G:949:GLU:N	2.35	0.41
2:H:22:VAL:N	2:H:23:PRO:HD2	2.35	0.41
2:H:244:ILE:HG22	2:H:248:HIS:NE2	2.35	0.41
2:H:165:ASN:HB2	2:H:510:SER:HB2	2.01	0.41
2:H:824:UNK:HA	2:H:837:UNK:CB	2.51	0.41
2:H:948:UNK:O	2:H:949:UNK:C	2.67	0.41
2:H:98:GLY:C	2:H:100:ASP:N	2.72	0.41
2:H:1885:LEU:N	3:I:2:UNK:CB	2.77	0.41
1:A:1039:MET:HE3	1:A:1042:PHE:O	2.21	0.41
1:A:1041:ALA:CB	1:A:1042:PHE:CD1	3.04	0.41
1:A:1063:HIS:HD2	1:A:1065:GLY:CA	2.33	0.41
1:A:1106:ILE:CG2	1:A:1106:ILE:O	2.59	0.41
1:A:1162:GLU:O	1:A:1163:TYR:CD1	2.73	0.41
1:A:1201:SER:HB3	1:A:1204:ILE:HG12	1.97	0.41
1:A:1216:LEU:O	1:A:1219:VAL:CG1	2.67	0.41
1:A:1258:ARG:HD3	1:A:1338:GLU:OE2	2.19	0.41
1:A:1384:ILE:HA	1:A:1384:ILE:HD12	1.90	0.41
1:A:1491:ARG:NH1	1:A:1495:ASN:ND2	2.68	0.41
1:A:1560:MET:O	1:A:1560:MET:HG3	2.21	0.41
1:A:1641:ILE:O	1:A:1642:THR:HB	2.20	0.41
1:A:1705:PRO:HG2	1:A:1706:TYR:CE1	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1714:VAL:CG1	1:A:1731:LEU:HD13	2.38	0.41
1:A:1732:THR:CG2	1:A:1736:LYS:HB2	2.36	0.41
1:A:458:UNK:HA	1:A:1631:LEU:CD2	2.50	0.41
1:A:942:LYS:O	1:A:943:LEU:C	2.58	0.41
2:B:1678:MET:HE2	2:B:1678:MET:CA	2.48	0.41
2:B:1716:ASN:C	2:B:1718:THR:N	2.72	0.41
2:B:1893:VAL:C	2:B:1894:GLU:O	2.57	0.41
2:B:1938:GLY:O	2:B:1939:HIS:HB2	2.20	0.41
2:B:432:LEU:CD2	2:B:484:ILE:HG22	2.50	0.41
2:B:541:TYR:C	2:B:543:PHE:H	2.20	0.41
1:D:1067:LEU:HG	1:D:1073:THR:CG2	2.28	0.41
1:D:1262:LYS:NZ	1:D:1262:LYS:HB3	2.36	0.41
1:D:1248:GLY:CA	1:D:1330:GLY:HA2	2.49	0.41
1:D:1394:LEU:HD23	1:D:1673:TYR:CZ	2.55	0.41
1:D:691:GLU:O	1:D:694:GLN:HB2	2.21	0.41
1:D:884:ILE:HB	1:D:885:ALA:H	1.69	0.41
1:D:922:VAL:O	1:D:922:VAL:HG12	2.20	0.41
1:D:994:GLU:O	1:D:995:LEU:O	2.38	0.41
2:E:1012:UNK:O	2:E:1013:UNK:O	2.39	0.41
2:E:1455:UNK:O	2:E:1458:UNK:N	2.53	0.41
2:E:1753:LYS:C	2:E:1755:ILE:N	2.74	0.41
2:E:1799:PRO:O	2:E:1800:ALA:C	2.58	0.41
2:E:1742:VAL:CG2	2:E:1837:THR:HA	2.50	0.41
2:E:1912:ASN:C	2:E:1913:VAL:HG22	2.40	0.41
2:E:1923:ASP:O	2:E:1924:ILE:O	2.39	0.41
2:E:191:SER:O	2:E:194:THR:HB	2.21	0.41
2:E:267:LEU:HD12	2:E:269:GLY:H	1.85	0.41
2:E:393:LEU:HD21	2:E:418:ASN:CG	2.40	0.41
2:E:772:UNK:CB	2:E:776:UNK:O	2.68	0.41
2:E:841:UNK:O	2:E:843:UNK:N	2.54	0.41
2:E:99:ASN:O	2:E:100:ASP:CB	2.69	0.41
1:G:1094:GLU:OE2	1:G:1094:GLU:HA	2.20	0.41
1:G:1094:GLU:O	1:G:1095:THR:O	2.39	0.41
1:G:1103:ILE:HG22	1:G:1104:ARG:N	2.35	0.41
1:G:1158:PRO:O	1:G:1159:GLU:HB2	2.21	0.41
1:G:1189:ILE:CB	1:G:1190:PRO:CD	2.99	0.41
1:G:1211:ILE:O	1:G:1212:THR:C	2.58	0.41
1:G:1220:VAL:HG21	1:G:1698:PHE:CD1	2.53	0.41
1:G:1312:VAL:O	1:G:1313:ASP:C	2.58	0.41
1:G:1453:VAL:O	1:G:1454:THR:O	2.38	0.41
1:G:1470:LEU:O	1:G:1470:LEU:HD23	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1491:ARG:NH1	1:G:1495:ASN:ND2	2.69	0.41
1:G:1707:THR:HG23	1:G:1710:LEU:CD1	2.51	0.41
1:G:419:UNK:C	1:G:421:UNK:H	2.33	0.41
1:G:886:GLU:O	1:G:888:ILE:N	2.54	0.41
1:G:933:VAL:HA	1:G:934:PRO:HD3	1.64	0.41
2:H:63:LYS:HB2	2:H:125:ASN:ND2	2.36	0.41
2:H:1336:UNK:O	2:H:1337:UNK:C	2.68	0.41
2:H:1726:GLY:O	2:H:1727:LYS:C	2.59	0.41
2:H:1771:LEU:HD12	2:H:1771:LEU:HA	1.85	0.41
2:H:1856:ALA:O	2:H:1857:ILE:HG12	2.20	0.41
2:H:357:ASN:O	2:H:360:LEU:N	2.53	0.41
2:H:373:GLY:HA2	2:H:519:ASN:CG	2.39	0.41
2:H:382:PRO:O	2:H:383:PRO:C	2.58	0.41
2:H:515:LEU:C	2:H:515:LEU:HD12	2.41	0.41
2:H:533:LEU:O	2:H:541:TYR:CZ	2.74	0.41
2:H:694:UNK:O	2:H:696:UNK:N	2.54	0.41
3:I:26:UNK:O	3:I:30:UNK:N	2.53	0.41
1:A:1117:GLU:O	1:A:1118:LYS:C	2.55	0.41
1:A:1220:VAL:C	1:A:1222:ALA:N	2.74	0.41
1:A:1341:PHE:C	1:A:1343:PHE:O	2.59	0.41
1:A:1642:THR:CA	1:A:1652:GLN:OE1	2.68	0.41
1:A:615:UNK:C	1:A:617:UNK:N	2.83	0.41
1:A:797:THR:HA	1:A:800:LEU:HD23	2.02	0.41
1:A:852:ARG:C	1:A:854:HIS:N	2.72	0.41
2:B:1318:UNK:CB	2:B:1366:UNK:O	2.69	0.41
2:B:1367:UNK:O	2:B:1369:UNK:N	2.54	0.41
2:B:1687:ALA:O	2:B:1688:GLN:O	2.39	0.41
2:B:1789:PHE:CZ	2:B:1798:ILE:HG13	2.55	0.41
2:B:208:VAL:CG1	2:B:208:VAL:O	2.69	0.41
2:B:248:HIS:O	2:B:251:VAL:N	2.54	0.41
2:B:529:VAL:CG1	2:B:530:ALA:N	2.73	0.41
2:B:647:UNK:O	2:B:648:UNK:C	2.69	0.41
2:B:91:PHE:C	2:B:93:ASN:N	2.74	0.41
1:D:1118:LYS:O	1:D:1119:LYS:C	2.59	0.41
1:D:1168:LEU:CG	1:D:1169:LYS:H	2.34	0.41
1:D:1232:TYR:O	1:D:1235:TYR:HD2	2.03	0.41
1:D:1246:CYS:H	1:D:1328:ILE:HG23	1.86	0.41
1:D:1358:HIS:HB3	1:D:1359:GLY:H	1.58	0.41
1:D:996:LYS:HZ1	1:D:1400:ILE:CG1	2.33	0.41
1:D:1704:ALA:CB	1:D:1705:PRO:CD	2.96	0.41
1:D:468:UNK:CB	1:D:523:UNK:CB	2.99	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:491:UNK:O	1:D:493:UNK:N	2.54	0.41
1:D:824:LEU:HD13	1:D:846:LEU:HD22	2.03	0.41
1:D:839:TYR:HE1	1:D:843:LYS:CE	2.29	0.41
1:D:819:PRO:HB3	1:D:861:GLN:N	2.36	0.41
1:D:853:TRP:CD1	1:D:864:VAL:HG23	2.56	0.41
1:D:872:THR:O	1:D:873:ARG:O	2.38	0.41
2:E:1230:UNK:O	2:E:1231:UNK:CB	2.68	0.41
2:E:1628:UNK:O	2:E:1629:UNK:C	2.67	0.41
2:E:1751:ILE:O	2:E:1751:ILE:HG22	2.20	0.41
2:E:1871:LEU:CD2	2:E:1872:GLN:N	2.83	0.41
2:E:1935:GLU:C	2:E:1937:GLU:N	2.74	0.41
2:E:173:LEU:HD22	2:E:219:LEU:HD21	2.02	0.41
2:E:259:THR:C	2:E:261:GLY:N	2.74	0.41
2:E:357:ASN:O	2:E:360:LEU:N	2.54	0.41
2:E:4:TYR:HD1	2:E:5:SER:N	2.15	0.41
2:E:649:UNK:O	2:E:650:UNK:C	2.68	0.41
1:G:1428:THR:O	1:G:1428:THR:HG22	2.21	0.41
1:G:1573:ILE:HG23	1:G:1624:VAL:HG11	2.01	0.41
1:G:451:UNK:C	1:G:453:UNK:N	2.82	0.41
1:G:567:UNK:C	1:G:569:UNK:N	2.82	0.41
2:H:1695:ASP:OD2	2:H:1707:LEU:N	2.54	0.41
2:H:1935:GLU:C	2:H:1937:GLU:N	2.72	0.41
2:H:488:VAL:O	2:H:490:TRP:N	2.53	0.41
2:H:862:UNK:O	2:H:865:UNK:CB	2.69	0.41
1:A:1036:ARG:HE	1:A:1036:ARG:C	2.24	0.41
1:A:1067:LEU:CG	1:A:1074:GLY:H	2.33	0.41
1:A:1128:GLU:HB2	1:A:1177:LYS:HG2	2.02	0.41
1:A:1629:LYS:O	1:A:1630:THR:O	2.39	0.41
1:A:1701:LYS:H	1:A:1701:LYS:HE3	1.85	0.41
1:A:1706:TYR:C	1:A:1707:THR:HG22	2.40	0.41
1:A:703:VAL:CG1	1:A:704:VAL:N	2.83	0.41
1:A:745:VAL:O	1:A:748:LEU:N	2.53	0.41
1:A:860:ASN:HB2	1:A:861:GLN:NE2	2.35	0.41
1:A:891:MET:O	1:A:891:MET:HG3	2.21	0.41
2:B:1591:UNK:O	2:B:1594:UNK:N	2.54	0.41
2:B:1628:UNK:O	2:B:1629:UNK:C	2.68	0.41
2:B:1738:PHE:HB2	2:B:1755:ILE:CB	2.50	0.41
2:B:182:VAL:O	2:B:184:VAL:N	2.48	0.41
2:B:2036:UNK:O	2:B:2039:UNK:N	2.53	0.41
2:B:259:THR:H	2:B:262:GLU:HB2	1.85	0.41
2:B:355:LYS:O	2:B:358:SER:HB2	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:4:TYR:OH	2:B:30:ALA:HA	2.21	0.41
2:B:948:UNK:O	2:B:949:UNK:C	2.67	0.41
1:D:1189:ILE:CB	1:D:1190:PRO:CD	2.99	0.41
1:D:1213:LEU:O	1:D:1216:LEU:N	2.53	0.41
1:D:1407:ALA:O	1:D:1408:ALA:O	2.39	0.41
1:D:1416:ARG:HG3	1:D:1416:ARG:HH11	1.84	0.41
1:D:1456:GLU:CA	1:D:1459:ILE:HG13	2.51	0.41
1:D:1491:ARG:NH1	1:D:1495:ASN:ND2	2.68	0.41
1:D:1557:ILE:CA	1:D:1560:MET:HB3	2.50	0.41
1:D:1333:ASP:HB3	1:D:1585:LYS:O	2.20	0.41
1:D:1631:LEU:HB3	1:D:1634:ASP:HB2	2.02	0.41
1:D:1646:PHE:O	1:D:1648:GLN:N	2.54	0.41
1:D:610:UNK:O	1:D:611:UNK:C	2.69	0.41
1:D:852:ARG:O	1:D:853:TRP:C	2.58	0.41
2:E:131:ILE:HD13	2:E:182:VAL:CG1	2.45	0.41
2:E:1694:ALA:O	2:E:1698:PHE:HB2	2.21	0.41
2:E:1812:TYR:C	2:E:1814:ALA:N	2.72	0.41
2:E:355:LYS:HA	2:E:358:SER:OG	2.20	0.41
2:E:460:TYR:CD1	2:E:496:PHE:HE2	2.39	0.41
2:E:504:PHE:O	2:E:505:GLY:C	2.59	0.41
2:E:982:UNK:C	2:E:983:UNK:O	2.69	0.41
1:G:1089:VAL:C	1:G:1091:ALA:H	2.23	0.41
1:G:1226:SER:O	1:G:1226:SER:OG	2.37	0.41
1:G:1248:GLY:CA	1:G:1330:GLY:HA2	2.49	0.41
1:G:1553:GLU:OE1	1:G:1644:PHE:CE2	2.73	0.41
1:G:1612:ASP:O	1:G:1613:ASN:O	2.39	0.41
1:G:536:UNK:O	1:G:537:UNK:C	2.68	0.41
1:G:841:GLU:H	1:G:841:GLU:CD	2.24	0.41
2:H:1011:UNK:O	2:H:1012:UNK:CB	2.68	0.41
2:H:209:PHE:CE1	2:H:235:PRO:HB2	2.56	0.41
2:H:306:ILE:H	2:H:306:ILE:HG13	1.73	0.41
2:E:1307:UNK:CB	2:H:317:THR:HG23	2.51	0.41
2:H:504:PHE:O	2:H:505:GLY:C	2.59	0.41
2:H:646:UNK:O	2:H:647:UNK:C	2.69	0.41
1:A:999:LYS:C	1:A:1001:VAL:H	2.21	0.41
1:A:1008:GLU:O	1:A:1010:GLU:N	2.54	0.41
1:A:1205:ILE:HG22	1:A:1213:LEU:HD11	2.03	0.41
1:A:1213:LEU:HD22	1:A:1213:LEU:HA	1.72	0.41
1:A:1258:ARG:NH1	1:A:1258:ARG:CG	2.84	0.41
1:A:1321:SER:O	1:A:1323:LYS:N	2.43	0.41
1:A:1353:LEU:O	1:A:1355:GLU:N	2.54	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1462:TRP:CE3	1:A:1463:VAL:N	2.89	0.41
1:A:1513:TYR:CD1	1:A:1513:TYR:N	2.81	0.41
1:A:1575:VAL:O	1:A:1576:PHE:CB	2.69	0.41
1:A:1688:PHE:CD2	1:A:1689:HIS:N	2.89	0.41
1:A:1706:TYR:HB3	1:A:1714:VAL:HG21	2.03	0.41
1:A:741:SER:O	1:A:744:ASP:OD1	2.38	0.41
1:A:743:GLN:C	1:A:745:VAL:N	2.74	0.41
1:A:747:ALA:CA	1:A:750:GLU:HB3	2.49	0.41
1:A:753:TYR:CG	1:A:809:GLN:CG	3.04	0.41
2:B:1672:GLN:HB3	2:B:1781:LEU:CD1	2.49	0.41
2:B:1680:LEU:CD2	2:B:1680:LEU:C	2.89	0.41
2:B:1753:LYS:C	2:B:1755:ILE:N	2.73	0.41
2:B:427:PHE:N	2:B:427:PHE:CD1	2.89	0.41
2:B:56:THR:CA	2:B:59:GLU:HG2	2.51	0.41
1:D:1047:LEU:O	1:D:1048:GLU:C	2.59	0.41
1:D:1063:HIS:HD2	1:D:1065:GLY:CA	2.34	0.41
1:D:1072:TYR:N	1:D:1072:TYR:CD1	2.89	0.41
1:D:1148:HIS:NE2	1:D:1153:ASP:HB2	2.36	0.41
1:D:1198:TYR:CE2	1:D:1217:VAL:CG1	3.04	0.41
1:D:1248:GLY:O	1:D:1249:SER:HB3	2.20	0.41
1:D:1431:GLU:HA	1:D:1521:PRO:CB	2.49	0.41
1:D:1491:ARG:HH12	1:D:1495:ASN:ND2	2.19	0.41
1:D:792:HIS:ND1	1:D:796:LEU:HD21	2.36	0.41
1:D:796:LEU:CG	1:D:797:THR:H	2.30	0.41
1:D:873:ARG:CG	1:D:874:GLY:N	2.82	0.41
2:E:1011:UNK:O	2:E:1012:UNK:CB	2.69	0.41
2:E:1698:PHE:O	2:E:1702:TYR:N	2.49	0.41
2:E:1713:ASN:O	2:E:1715:VAL:N	2.52	0.41
2:E:1929:LYS:N	2:E:1929:LYS:HE2	2.36	0.41
2:E:1972:UNK:O	2:E:1975:UNK:O	2.39	0.41
2:E:324:LEU:O	2:E:324:LEU:HD12	2.21	0.41
2:E:444:VAL:CA	2:E:449:SER:OG	2.67	0.41
2:E:536:ASN:O	2:E:537:PRO:C	2.59	0.41
2:E:601:UNK:C	2:E:603:UNK:N	2.80	0.41
2:E:653:UNK:O	2:E:655:UNK:N	2.54	0.41
2:E:956:UNK:O	2:E:959:UNK:N	2.54	0.41
1:G:1021:VAL:HG21	1:G:1597:LEU:HD11	2.03	0.41
1:G:1067:LEU:C	1:G:1069:GLY:N	2.74	0.41
1:G:1286:TRP:C	1:G:1288:ASN:H	2.24	0.41
1:G:1463:VAL:O	1:G:1466:GLU:N	2.54	0.41
1:G:1629:LYS:O	1:G:1630:THR:O	2.38	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1665:ILE:HD12	1:G:1669:ARG:CB	2.51	0.41
1:G:1062:TYR:CE2	1:G:1693:ILE:HB	2.56	0.41
1:G:1719:LEU:CB	1:G:1739:GLN:HA	2.51	0.41
1:G:761:LEU:HD11	1:G:763:TRP:CD2	2.55	0.41
1:G:792:HIS:HA	1:G:842:SER:OG	2.19	0.41
1:G:799:ILE:O	1:G:800:LEU:C	2.60	0.41
1:G:826:MET:HE2	1:G:826:MET:HB3	1.84	0.41
1:G:935:GLU:O	1:G:936:LEU:C	2.60	0.41
2:H:1320:UNK:C	2:H:1322:UNK:N	2.78	0.41
2:H:1731:GLU:CA	2:H:1735:ALA:HB3	2.50	0.41
2:H:1742:VAL:CG2	2:H:1751:ILE:HD11	2.51	0.41
2:H:1855:ILE:HG13	2:H:1856:ALA:N	2.36	0.41
2:H:191:SER:O	2:H:194:THR:HB	2.21	0.41
2:H:56:THR:O	2:H:59:GLU:CB	2.68	0.41
2:H:620:UNK:O	2:H:623:UNK:N	2.54	0.41
2:H:675:UNK:O	2:H:676:UNK:C	2.69	0.41
2:H:71:LEU:HD12	2:H:76:LYS:HZ3	1.86	0.41
2:H:742:UNK:O	2:H:745:UNK:N	2.53	0.41
2:H:744:UNK:O	2:H:746:UNK:N	2.54	0.41
1:A:1033:ALA:O	1:A:1034:ARG:C	2.59	0.41
1:A:1089:VAL:HG23	1:A:1091:ALA:HB3	2.03	0.41
1:A:1332:TYR:HA	1:A:1382:ALA:HA	2.03	0.41
1:A:1393:ALA:C	1:A:1395:LYS:N	2.74	0.41
1:A:1433:HIS:NE2	1:A:1523:ARG:NE	2.68	0.41
1:A:1574:GLY:O	1:A:1624:VAL:HG11	2.21	0.41
1:A:1728:SER:O	1:A:1729:GLY:C	2.58	0.41
1:A:1737:ASN:OD1	1:A:1739:GLN:N	2.51	0.41
1:A:691:GLU:O	1:A:692:VAL:C	2.57	0.41
1:A:791:ALA:O	1:A:792:HIS:C	2.60	0.41
1:A:996:LYS:HZ1	1:A:1400:ILE:CG1	2.34	0.41
2:B:1594:UNK:C	2:B:1596:UNK:N	2.83	0.41
2:B:1864:ALA:N	2:B:1866:PHE:HB2	2.36	0.41
2:B:1889:VAL:O	2:B:1890:ASN:HB2	2.21	0.41
2:B:1931:LEU:O	2:B:1934:GLU:HB3	2.20	0.41
2:B:1969:UNK:O	2:B:1973:UNK:CB	2.69	0.41
2:B:387:TYR:HA	2:B:390:ASN:ND2	2.20	0.41
2:B:490:TRP:HZ2	2:B:516:THR:HG1	1.67	0.41
2:B:56:THR:O	2:B:59:GLU:CB	2.69	0.41
2:B:61:VAL:HG12	2:B:65:LEU:CD1	2.50	0.41
1:D:1018:VAL:HG13	1:D:1018:VAL:O	2.21	0.41
1:D:1151:LYS:N	1:D:1151:LYS:HD2	2.33	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1275:LEU:HD13	1:D:1275:LEU:O	2.21	0.41
1:D:1286:TRP:C	1:D:1288:ASN:H	2.23	0.41
1:D:1502:ARG:C	1:D:1504:ALA:N	2.71	0.41
1:D:1536:LEU:HD23	1:D:1654:ILE:CD1	2.50	0.41
1:D:298:UNK:O	1:D:299:UNK:C	2.69	0.41
1:D:631:UNK:C	1:D:632:UNK:O	2.68	0.41
1:D:703:VAL:CG1	1:D:704:VAL:N	2.82	0.41
1:D:724:LYS:C	1:D:725:TYR:HD1	2.24	0.41
1:D:747:ALA:O	1:D:748:LEU:C	2.57	0.41
1:D:797:THR:HG22	1:D:798:ASN:H	1.83	0.41
1:D:845:SER:O	1:D:847:GLU:N	2.54	0.41
2:E:1432:UNK:O	2:E:1433:UNK:CB	2.69	0.41
2:E:161:GLY:HA2	2:E:512:LEU:CD1	2.50	0.41
2:E:1777:THR:HG22	2:E:1781:LEU:HD12	2.02	0.41
2:E:1789:PHE:CZ	2:E:1798:ILE:HG13	2.55	0.41
2:E:1825:GLU:HB2	2:E:1826:SER:H	1.55	0.41
2:E:1874:VAL:CG2	2:E:1928:GLN:HE22	2.28	0.41
2:E:1931:LEU:O	2:E:1934:GLU:HB3	2.21	0.41
2:E:1857:ILE:HG23	2:E:1949:UNK:CB	2.51	0.41
2:E:2006:UNK:HA	2:E:2009:UNK:O	2.20	0.41
2:E:149:VAL:O	2:E:266:TYR:HD2	2.03	0.41
2:E:4:TYR:OH	2:E:30:ALA:HA	2.20	0.41
2:E:60:LEU:CD1	2:E:60:LEU:H	2.34	0.41
2:E:646:UNK:C	2:E:648:UNK:N	2.84	0.41
2:E:77:VAL:CG1	2:E:78:GLY:N	2.82	0.41
1:G:1015:LEU:O	1:G:1016:GLU:HB3	2.21	0.41
1:G:1229:THR:HG23	1:G:1229:THR:O	2.21	0.41
1:G:1391:ASP:C	1:G:1393:ALA:N	2.74	0.41
1:G:1393:ALA:C	1:G:1395:LYS:N	2.73	0.41
1:G:1491:ARG:HH12	1:G:1495:ASN:ND2	2.19	0.41
1:G:1614:VAL:O	1:G:1615:ASP:CB	2.53	0.41
1:G:1425:ILE:HG21	1:G:1648:GLN:OE1	2.20	0.41
1:G:1674:VAL:O	1:G:1674:VAL:HG12	2.21	0.41
1:G:209:UNK:O	1:G:213:UNK:CB	2.68	0.41
1:G:495:UNK:O	1:G:496:UNK:C	2.69	0.41
2:H:100:ASP:CB	2:H:546:UNK:CB	2.99	0.41
2:H:1453:UNK:HA	2:H:1505:UNK:CB	2.51	0.41
2:H:1738:PHE:HB2	2:H:1755:ILE:CB	2.50	0.41
2:H:1720:HIS:CB	2:H:1762:TYR:O	2.68	0.41
2:H:1828:VAL:CG1	2:H:1829:GLU:N	2.82	0.41
2:H:1904:LEU:O	2:H:1908:ASP:HB2	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:1972:UNK:O	2:H:1975:UNK:O	2.39	0.41
2:H:232:LEU:HD23	2:H:232:LEU:C	2.41	0.41
2:H:242:GLY:O	2:H:246:LEU:HG	2.21	0.41
2:H:25:ALA:HB1	2:H:65:LEU:HD21	2.01	0.41
2:H:285:GLU:HB3	2:H:454:ASP:O	2.21	0.41
2:H:234:ILE:CD1	2:H:310:CYS:HB2	2.51	0.41
2:H:429:SER:OG	2:H:432:LEU:HB3	2.21	0.41
2:H:82:GLN:O	2:H:85:ASN:N	2.53	0.41
1:A:1047:LEU:O	1:A:1048:GLU:C	2.59	0.40
1:A:1094:GLU:C	1:A:1095:THR:O	2.58	0.40
1:A:1156:GLU:HB2	1:A:1169:LYS:NZ	2.36	0.40
1:A:1156:GLU:HG2	1:A:1170:GLY:N	2.35	0.40
1:A:1193:TRP:HB2	1:A:1194:ASN:H	1.38	0.40
1:A:1216:LEU:HD11	1:A:1290:LEU:HD22	2.03	0.40
1:A:1248:GLY:HA3	1:A:1332:TYR:OH	2.22	0.40
1:A:1419:PRO:O	1:A:1420:ALA:CB	2.68	0.40
1:A:1519:ILE:HD11	1:A:1524:GLY:CA	2.51	0.40
1:A:1527:ALA:O	1:A:1529:TYR:N	2.54	0.40
1:A:1860:UNK:C	1:A:1862:UNK:N	2.82	0.40
1:A:468:UNK:CB	1:A:523:UNK:CB	2.99	0.40
1:A:631:UNK:C	1:A:632:UNK:O	2.67	0.40
1:A:869:ILE:HD13	1:A:905:LEU:HD21	2.03	0.40
2:B:1477:UNK:C	2:B:1484:UNK:CB	2.99	0.40
2:B:1742:VAL:CG1	2:B:1743:ASP:N	2.85	0.40
2:B:321:PRO:C	2:B:323:ILE:H	2.24	0.40
2:B:9:LEU:HD11	2:B:55:THR:HG23	2.04	0.40
2:B:911:UNK:O	2:B:912:UNK:CB	2.68	0.40
1:D:1002:LYS:C	1:D:1004:ILE:H	2.25	0.40
1:D:1080:THR:OG1	1:D:1083:PRO:HG3	2.21	0.40
1:D:1277:GLU:CA	1:D:1277:GLU:OE2	2.68	0.40
1:D:1304:ALA:O	1:D:1305:CYS:CB	2.69	0.40
1:D:1319:ILE:O	1:D:1320:LEU:O	2.39	0.40
1:D:1580:LEU:O	1:D:1581:THR:OG1	2.34	0.40
1:D:1062:TYR:CE2	1:D:1693:ILE:HB	2.56	0.40
1:D:632:UNK:CB	1:D:894:ARG:HH22	2.35	0.40
1:D:997:PRO:O	1:D:1002:LYS:HE3	2.20	0.40
2:E:101:ILE:HD13	2:E:101:ILE:HA	1.87	0.40
2:E:1674:GLN:HB3	2:E:1675:GLY:H	1.69	0.40
2:E:1716:ASN:C	2:E:1718:THR:N	2.73	0.40
2:E:1758:HIS:O	2:E:1759:SER:C	2.60	0.40
2:E:1771:LEU:HA	2:E:1771:LEU:HD12	1.86	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:1905:ARG:HA	2:E:1908:ASP:HB3	2.03	0.40
2:E:2033:UNK:O	2:E:2034:UNK:C	2.69	0.40
2:E:195:LEU:HD22	2:E:304:PHE:HD1	1.86	0.40
2:E:681:UNK:O	2:E:685:UNK:N	2.54	0.40
1:G:1015:LEU:HD23	1:G:1018:VAL:CG1	2.48	0.40
1:G:1367:ARG:O	1:G:1368:PRO:C	2.59	0.40
1:G:1462:TRP:CE3	1:G:1463:VAL:N	2.88	0.40
1:G:1493:ILE:O	1:G:1494:HIS:C	2.59	0.40
1:G:1585:LYS:HE3	1:G:1585:LYS:HB3	1.77	0.40
1:G:1024:PHE:HD2	1:G:1594:ASN:OD1	2.04	0.40
1:G:1574:GLY:O	1:G:1624:VAL:HG11	2.21	0.40
1:G:1639:VAL:CG2	1:G:1655:VAL:HG12	2.51	0.40
1:G:1691:GLY:C	1:G:1697:LEU:CD1	2.88	0.40
1:G:412:UNK:O	1:G:415:UNK:N	2.54	0.40
1:G:691:GLU:O	1:G:692:VAL:C	2.59	0.40
2:H:145:LEU:HD22	2:H:550:UNK:O	2.22	0.40
2:H:144:ALA:HA	2:H:147:ARG:HG3	2.02	0.40
2:H:1582:UNK:O	2:H:1583:UNK:CB	2.69	0.40
2:H:1674:GLN:O	2:H:1675:GLY:C	2.58	0.40
2:H:1684:SER:C	2:H:1686:ALA:N	2.73	0.40
2:H:1674:GLN:HE21	2:H:1712:ASN:HA	1.84	0.40
2:H:1807:HIS:O	2:H:1808:SER:HB3	2.21	0.40
2:H:1822:MET:HE1	2:H:1830:VAL:CG1	2.51	0.40
2:H:1853:GLY:O	2:H:1854:MET:CB	2.68	0.40
2:H:1899:VAL:O	2:H:1903:ASP:CB	2.62	0.40
2:H:346:GLN:C	2:H:348:GLN:N	2.74	0.40
2:H:354:ASN:O	2:H:355:LYS:C	2.59	0.40
2:H:517:HIS:CD2	2:H:517:HIS:C	2.94	0.40
2:H:597:UNK:O	2:H:600:UNK:N	2.54	0.40
2:H:962:UNK:C	2:H:964:UNK:N	2.81	0.40
1:A:1210:PRO:HB2	1:A:1211:ILE:H	1.53	0.40
1:A:1230:ASP:C	1:A:1232:TYR:N	2.75	0.40
1:A:1257:LEU:CD2	1:A:1257:LEU:C	2.89	0.40
1:A:1338:GLU:CD	1:A:1338:GLU:H	2.24	0.40
1:A:1108:PRO:CB	1:A:1362:PRO:HB2	2.51	0.40
1:A:1457:ALA:O	1:A:1458:GLN:C	2.60	0.40
1:A:1522:LEU:N	1:A:1522:LEU:HD12	2.35	0.40
1:A:1606:PRO:CD	1:A:1607:GLY:N	2.84	0.40
1:A:209:UNK:O	1:A:213:UNK:CB	2.70	0.40
1:A:737:PHE:CD1	1:A:748:LEU:CD2	3.04	0.40
1:A:681:THR:CG2	1:A:771:PHE:O	2.68	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:797:THR:O	1:A:798:ASN:C	2.59	0.40
2:B:1047:UNK:O	2:B:1048:UNK:C	2.67	0.40
2:B:1:MET:N	2:B:11:LEU:O	2.46	0.40
2:B:149:VAL:HG21	2:B:156:LEU:N	2.37	0.40
2:B:239:PRO:O	2:B:243:VAL:HG23	2.22	0.40
2:B:368:ILE:HA	2:B:379:VAL:HG22	2.03	0.40
2:B:382:PRO:O	2:B:383:PRO:C	2.59	0.40
1:D:1064:ASN:CG	1:D:1069:GLY:HA3	2.41	0.40
1:D:1192:GLY:C	1:D:1193:TRP:CG	2.91	0.40
1:D:1211:ILE:O	1:D:1214:PHE:N	2.53	0.40
1:D:1211:ILE:HG13	1:D:1283:MET:SD	2.60	0.40
1:D:1351:ASN:O	1:D:1352:THR:C	2.58	0.40
1:D:1667:GLU:O	1:D:1669:ARG:N	2.53	0.40
1:D:580:UNK:C	1:D:582:UNK:N	2.83	0.40
1:D:753:TYR:CG	1:D:809:GLN:CG	3.05	0.40
1:D:834:GLY:O	1:D:836:ASP:N	2.53	0.40
1:D:909:LEU:CG	1:D:909:LEU:O	2.69	0.40
2:E:1012:UNK:O	2:E:1015:UNK:CB	2.69	0.40
2:E:1:MET:N	2:E:11:LEU:O	2.45	0.40
2:E:1323:UNK:O	2:E:1327:UNK:N	2.54	0.40
2:E:1689:ASP:HA	2:E:1692:ASN:HD22	1.86	0.40
2:E:1706:ILE:HG22	2:E:1710:VAL:HG23	2.04	0.40
2:E:1903:ASP:OD2	2:E:1907:LEU:HD21	2.21	0.40
2:E:1855:ILE:HB	2:E:1950:UNK:O	2.21	0.40
2:E:1983:UNK:O	2:E:1985:UNK:N	2.55	0.40
2:E:22:VAL:H	2:E:23:PRO:HD2	1.86	0.40
2:E:255:LEU:C	2:E:257:GLY:N	2.75	0.40
2:E:469:ARG:HH11	2:E:475:ILE:HD11	1.85	0.40
1:G:1020:VAL:HG12	1:G:1021:VAL:N	2.35	0.40
1:G:1047:LEU:O	1:G:1048:GLU:C	2.59	0.40
1:G:1214:PHE:O	1:G:1215:VAL:C	2.57	0.40
1:G:1251:MET:N	1:G:1333:ASP:OD2	2.46	0.40
1:G:1712:GLU:O	1:G:1715:TYR:HB2	2.21	0.40
1:G:625:UNK:HA	1:G:628:UNK:CB	2.51	0.40
1:G:733:ILE:HD12	1:G:761:LEU:HD13	2.03	0.40
1:G:752:ILE:HG12	1:G:761:LEU:HD23	2.02	0.40
1:G:860:ASN:HB2	1:G:861:GLN:HE22	1.87	0.40
2:H:126:TYR:O	2:H:127:ILE:C	2.59	0.40
2:H:1332:UNK:O	2:H:1334:UNK:N	2.54	0.40
2:H:1364:UNK:O	2:H:1365:UNK:O	2.40	0.40
2:H:1897:GLN:HG3	2:H:1898:TYR:N	2.36	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:248:HIS:O	2:H:251:VAL:N	2.54	0.40
2:H:234:ILE:HG12	2:H:307:GLY:CA	2.51	0.40
2:H:4:TYR:OH	2:H:30:ALA:HA	2.21	0.40
2:H:344:LEU:HD22	2:H:348:GLN:OE1	2.21	0.40
2:H:357:ASN:HB3	2:H:365:GLN:NE2	2.36	0.40
2:H:274:SER:HB3	2:H:428:HIS:NE2	2.36	0.40
2:H:484:ILE:O	2:H:485:ARG:HB2	2.21	0.40
2:H:726:UNK:CB	2:H:786:UNK:O	2.68	0.40
1:A:1103:ILE:O	1:A:1106:ILE:CG1	2.70	0.40
1:A:1258:ARG:CG	1:A:1258:ARG:HH11	2.23	0.40
1:A:1367:ARG:O	1:A:1368:PRO:C	2.60	0.40
1:A:1416:ARG:HG3	1:A:1416:ARG:HH11	1.87	0.40
1:A:1417:SER:O	1:A:1418:VAL:HG22	2.21	0.40
1:A:1040:GLU:O	1:A:1606:PRO:HG3	2.21	0.40
1:A:1406:MET:HB3	1:A:1654:ILE:HG22	2.04	0.40
1:A:1062:TYR:CE2	1:A:1693:ILE:HB	2.57	0.40
1:A:858:TRP:HA	1:A:861:GLN:HE21	1.86	0.40
2:B:1067:UNK:C	2:B:1069:UNK:N	2.84	0.40
2:B:159:ILE:HB	2:B:503:ASP:CG	2.40	0.40
2:B:1756:ASN:OD1	2:B:1759:SER:HB2	2.21	0.40
2:B:1789:PHE:HE1	2:B:1798:ILE:HG13	1.83	0.40
2:B:195:LEU:HD22	2:B:304:PHE:HD1	1.85	0.40
2:B:2:ASP:OD2	2:B:2:ASP:N	2.53	0.40
2:B:346:GLN:C	2:B:348:GLN:N	2.74	0.40
2:B:646:UNK:O	2:B:647:UNK:C	2.69	0.40
2:B:698:UNK:H	2:B:702:UNK:CB	2.34	0.40
2:B:980:UNK:C	2:B:982:UNK:N	2.84	0.40
2:B:982:UNK:C	2:B:983:UNK:O	2.68	0.40
2:B:99:ASN:O	2:B:100:ASP:CB	2.69	0.40
1:D:1088:ASP:OD2	1:D:1097:ILE:HG21	2.21	0.40
1:D:1089:VAL:C	1:D:1091:ALA:H	2.25	0.40
1:D:1139:GLU:OE1	1:D:1139:GLU:N	2.53	0.40
1:D:1328:ILE:HA	1:D:1386:ILE:HA	2.03	0.40
1:D:1422:GLY:HA2	1:D:1425:ILE:CB	2.47	0.40
1:D:1453:VAL:O	1:D:1454:THR:O	2.39	0.40
1:D:1707:THR:HG23	1:D:1710:LEU:CD1	2.52	0.40
1:D:891:MET:HG3	1:D:891:MET:O	2.22	0.40
1:D:901:MET:C	1:D:901:MET:CE	2.90	0.40
2:E:1295:UNK:O	2:E:1297:UNK:N	2.54	0.40
2:E:1360:UNK:O	2:E:1362:UNK:N	2.54	0.40
2:E:1695:ASP:OD2	2:E:1705:SER:HB2	2.20	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:215:ILE:HG13	2:E:215:ILE:H	1.74	0.40
2:E:27:PHE:HA	2:E:30:ALA:HB3	2.03	0.40
2:E:408:PRO:O	2:E:410:SER:N	2.55	0.40
2:E:416:PHE:HB3	2:E:418:ASN:ND2	2.37	0.40
2:E:895:UNK:CB	2:E:898:UNK:CB	3.00	0.40
2:E:946:UNK:C	2:E:948:UNK:N	2.83	0.40
1:G:1198:TYR:HD2	1:G:1217:VAL:HG22	1.86	0.40
1:G:1216:LEU:HD11	1:G:1290:LEU:HD22	2.03	0.40
1:G:1246:CYS:HB3	1:G:1328:ILE:CG2	2.27	0.40
1:G:1249:SER:HB3	1:G:1301:PRO:CD	2.49	0.40
1:G:1256:ALA:HB1	1:G:1274:ILE:HD11	2.02	0.40
1:G:1456:GLU:CA	1:G:1459:ILE:HG13	2.51	0.40
1:G:622:UNK:O	1:G:624:UNK:N	2.53	0.40
1:G:852:ARG:O	1:G:853:TRP:C	2.60	0.40
2:H:1295:UNK:O	2:H:1297:UNK:N	2.53	0.40
2:B:317:THR:HG23	2:H:1307:UNK:CB	2.51	0.40
2:H:1333:UNK:O	2:H:1334:UNK:O	2.40	0.40
2:H:1373:UNK:O	2:H:1374:UNK:CB	2.68	0.40
2:H:1694:ALA:O	2:H:1698:PHE:HB2	2.21	0.40
2:H:1702:TYR:O	2:H:1703:GLY:C	2.59	0.40
2:H:1723:GLY:O	2:H:1724:GLU:O	2.40	0.40
2:H:1844:ARG:CG	2:H:1850:SER:HA	2.50	0.40
2:H:1905:ARG:HA	2:H:1908:ASP:HB3	2.03	0.40
2:H:1912:ASN:C	2:H:1913:VAL:HG22	2.41	0.40
2:H:216:LEU:HB3	2:H:217:GLU:H	1.68	0.40
2:H:259:THR:H	2:H:262:GLU:HG3	1.85	0.40
2:H:294:VAL:O	2:H:297:ARG:HB3	2.22	0.40
2:H:529:VAL:CG1	2:H:530:ALA:N	2.75	0.40
1:A:1139:GLU:N	1:A:1139:GLU:OE1	2.54	0.40
1:A:1277:GLU:CA	1:A:1277:GLU:OE2	2.70	0.40
1:A:1403:ILE:CG2	1:A:1657:HIS:O	2.70	0.40
1:A:1491:ARG:HH12	1:A:1495:ASN:ND2	2.19	0.40
1:A:1555:ALA:HA	1:A:1558:ASN:CB	2.51	0.40
1:A:1002:LYS:CE	1:A:1670:TYR:OH	2.70	0.40
1:A:752:ILE:HG12	1:A:761:LEU:HD23	2.03	0.40
1:A:794:ILE:HA	1:A:798:ASN:HD22	1.86	0.40
1:A:810:LYS:C	1:A:812:ALA:N	2.72	0.40
1:A:850:PHE:CE2	1:A:864:VAL:HG12	2.56	0.40
1:A:901:MET:HE3	1:A:905:LEU:CD2	2.47	0.40
1:A:993:PRO:HG3	1:A:1681:GLU:CB	2.43	0.40
2:B:91:PHE:HZ	2:B:101:ILE:HD11	1.82	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1020:UNK:O	2:B:1022:UNK:N	2.36	0.40
2:B:1550:UNK:O	2:B:1552:UNK:N	2.55	0.40
2:B:1807:HIS:O	2:B:1808:SER:HB3	2.20	0.40
2:B:1815:LEU:O	2:B:1821:VAL:HG13	2.21	0.40
2:B:1897:GLN:HG3	2:B:1898:TYR:N	2.37	0.40
2:B:1927:LEU:HD23	2:B:1927:LEU:HA	1.88	0.40
2:B:1928:GLN:C	2:B:1930:SER:H	2.25	0.40
2:B:309:ARG:HD3	2:B:312:GLU:OE1	2.22	0.40
2:B:344:LEU:HD13	2:B:348:GLN:HB2	2.04	0.40
2:B:344:LEU:HD22	2:B:348:GLN:OE1	2.22	0.40
2:B:37:PHE:O	2:B:41:LEU:HD11	2.22	0.40
2:B:711:UNK:O	2:B:712:UNK:CB	2.70	0.40
2:B:772:UNK:CB	2:B:776:UNK:O	2.70	0.40
1:D:1029:PRO:HD2	1:D:1591:TRP:HH2	1.85	0.40
1:D:1036:ARG:O	1:D:1037:TRP:C	2.60	0.40
1:D:1040:GLU:O	1:D:1606:PRO:CG	2.70	0.40
1:D:1080:THR:HG1	1:D:1083:PRO:CG	2.35	0.40
1:D:1207:GLN:NE2	1:D:1277:GLU:OE1	2.50	0.40
1:D:1288:ASN:ND2	1:D:1292:ILE:O	2.55	0.40
1:D:1329:VAL:HB	1:D:1385:GLN:O	2.22	0.40
1:D:1531:LEU:O	1:D:1532:THR:O	2.39	0.40
1:D:1573:ILE:HG23	1:D:1624:VAL:HG11	2.02	0.40
1:D:1706:TYR:HB3	1:D:1714:VAL:HG21	2.04	0.40
1:D:503:UNK:C	1:D:505:UNK:N	2.76	0.40
1:D:826:MET:CE	1:D:847:GLU:HG3	2.45	0.40
1:D:886:GLU:O	1:D:888:ILE:N	2.55	0.40
1:D:904:ASN:HD22	1:D:904:ASN:H	1.66	0.40
1:D:917:CYS:O	1:D:920:SER:O	2.39	0.40
2:E:1067:UNK:C	2:E:1069:UNK:N	2.84	0.40
2:E:1477:UNK:C	2:E:1484:UNK:CB	2.99	0.40
2:E:1594:UNK:C	2:E:1596:UNK:N	2.85	0.40
2:E:1742:VAL:CG2	2:E:1751:ILE:HD11	2.51	0.40
2:E:1867:SER:CA	2:E:1870:ALA:HB3	2.47	0.40
2:E:1904:LEU:O	2:E:1908:ASP:HB2	2.21	0.40
2:E:1922:ILE:O	2:E:1922:ILE:HG22	2.21	0.40
2:E:294:VAL:O	2:E:298:LYS:HG3	2.22	0.40
2:E:415:LYS:C	2:E:416:PHE:HD1	2.25	0.40
2:E:511:GLY:C	2:E:513:GLY:H	2.17	0.40
2:E:529:VAL:HG12	2:E:530:ALA:H	1.80	0.40
2:E:77:VAL:HG12	2:E:78:GLY:H	1.86	0.40
2:E:926:UNK:O	2:E:929:UNK:N	2.55	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1088:ASP:OD2	1:G:1097:ILE:HG21	2.21	0.40
1:G:1240:VAL:HG13	1:G:1242:GLU:H	1.86	0.40
1:G:1414:ILE:HG22	1:G:1414:ILE:O	2.22	0.40
1:G:1457:ALA:O	1:G:1458:GLN:C	2.60	0.40
1:G:1472:LEU:C	1:G:1472:LEU:HD13	2.42	0.40
1:G:1504:ALA:C	1:G:1506:GLN:N	2.73	0.40
1:G:151:UNK:C	1:G:153:UNK:N	2.83	0.40
1:G:1606:PRO:CD	1:G:1607:GLY:H	2.34	0.40
1:G:1637:ARG:O	1:G:1656:VAL:HA	2.21	0.40
1:G:1692:MET:O	1:G:1692:MET:HG2	2.20	0.40
1:G:644:UNK:CB	1:G:647:UNK:C	2.99	0.40
1:G:737:PHE:CD1	1:G:748:LEU:CD2	3.04	0.40
1:G:901:MET:HE3	1:G:905:LEU:CD2	2.50	0.40
1:G:916:LEU:HD12	1:G:916:LEU:O	2.22	0.40
2:H:1671:SER:OG	3:I:22:UNK:CB	2.70	0.40
2:H:170:PHE:C	2:H:172:GLU:H	2.25	0.40
2:H:1884:TRP:H	2:H:1892:ASN:CB	2.32	0.40
2:H:241:ILE:CG2	2:H:275:GLN:NE2	2.67	0.40
2:H:455:ILE:O	2:H:456:GLN:O	2.40	0.40
2:H:486:LEU:HA	2:H:487:PRO:HD3	1.89	0.40
2:H:372:ASN:HA	2:H:490:TRP:HB3	2.04	0.40
2:H:657:UNK:O	2:H:658:UNK:C	2.68	0.40
2:H:681:UNK:O	2:H:685:UNK:N	2.55	0.40
1:A:1029:PRO:HA	1:A:1193:TRP:NE1	2.36	0.40
1:A:1080:THR:HG1	1:A:1083:PRO:CD	2.35	0.40
1:A:1128:GLU:CB	1:A:1177:LYS:HE3	2.42	0.40
1:A:1308:SER:OG	1:A:1589:GLY:CA	2.70	0.40
1:A:1367:ARG:HB2	1:A:1370:THR:OG1	2.21	0.40
1:A:1674:VAL:HG12	1:A:1674:VAL:O	2.21	0.40
1:A:1864:UNK:O	1:A:1865:UNK:CB	2.69	0.40
1:A:496:UNK:CB	1:A:629:UNK:CB	3.00	0.40
1:A:755:THR:CG2	1:A:756:GLU:N	2.83	0.40
1:A:733:ILE:HD12	1:A:761:LEU:HD13	2.03	0.40
2:B:1336:UNK:O	2:B:1337:UNK:C	2.69	0.40
2:B:1364:UNK:O	2:B:1365:UNK:O	2.40	0.40
2:B:1584:UNK:O	2:B:1585:UNK:C	2.69	0.40
2:B:1674:GLN:O	2:B:1675:GLY:C	2.59	0.40
2:B:1695:ASP:OD2	2:B:1705:SER:HB2	2.20	0.40
2:B:131:ILE:HG21	2:B:182:VAL:HG22	2.01	0.40
2:B:1856:ALA:O	2:B:1857:ILE:HG12	2.21	0.40
2:B:414:LEU:H	2:B:414:LEU:HG	1.66	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:443:LEU:C	2:B:449:SER:HB3	2.42	0.40
2:B:504:PHE:O	2:B:505:GLY:C	2.58	0.40
2:B:52:ASP:HB2	2:B:113:ASP:OD2	2.21	0.40
1:D:1031:GLY:H	1:D:1035:THR:HG21	1.86	0.40
1:D:1203:ASP:O	1:D:1206:SER:N	2.55	0.40
1:D:1208:VAL:HB	1:D:1212:THR:CB	2.51	0.40
1:D:1527:ALA:O	1:D:1529:TYR:N	2.55	0.40
1:D:1550:ASP:O	1:D:1551:LYS:C	2.60	0.40
1:D:1560:MET:HG3	1:D:1560:MET:O	2.22	0.40
1:D:1583:HIS:CE1	1:D:1585:LYS:C	2.95	0.40
1:D:1606:PRO:CD	1:D:1607:GLY:H	2.34	0.40
1:D:1629:LYS:O	1:D:1630:THR:O	2.39	0.40
1:D:1700:SER:CB	1:D:1702:GLU:OE2	2.70	0.40
1:D:741:SER:O	1:D:744:ASP:OD1	2.38	0.40
1:D:843:LYS:O	1:D:846:LEU:N	2.55	0.40
2:E:126:TYR:O	2:E:127:ILE:C	2.60	0.40
2:E:168:ASP:O	2:E:169:TYR:HB2	2.21	0.40
2:E:1724:GLU:O	2:E:1729:ILE:HA	2.21	0.40
2:E:1733:TYR:CE1	2:E:1760:THR:HG23	2.50	0.40
2:E:433:VAL:HA	2:E:436:SER:HB3	2.02	0.40
2:E:653:UNK:O	2:E:656:UNK:N	2.55	0.40
2:E:737:UNK:O	2:E:739:UNK:N	2.54	0.40
2:E:87:CYS:O	2:E:88:LEU:C	2.60	0.40
2:E:961:UNK:O	2:E:962:UNK:CB	2.69	0.40
1:G:1041:ALA:CB	1:G:1042:PHE:CD1	3.05	0.40
1:G:1083:PRO:CG	1:G:1084:VAL:N	2.84	0.40
1:G:1109:GLU:OE1	1:G:1109:GLU:HA	2.21	0.40
1:G:1114:TYR:HD2	1:G:1115:ASN:HD21	1.69	0.40
1:G:1154:ILE:O	1:G:1155:PHE:CG	2.75	0.40
1:G:1196:LYS:C	1:G:1197:THR:HG22	2.42	0.40
1:G:1273:ASP:CG	1:G:1273:ASP:O	2.59	0.40
1:G:1349:THR:O	1:G:1375:GLY:HA3	2.21	0.40
1:G:1359:GLY:O	1:G:1360:ARG:C	2.60	0.40
1:G:1515:ARG:NH1	1:G:1515:ARG:HG2	2.36	0.40
1:G:238:UNK:O	1:G:239:UNK:CB	2.69	0.40
1:G:786:SER:O	1:G:788:SER:N	2.54	0.40
1:G:794:ILE:HA	1:G:798:ASN:HD22	1.86	0.40
1:G:916:LEU:O	1:G:919:LYS:HB2	2.21	0.40
1:G:931:GLN:HG3	1:G:932:PHE:CD1	2.56	0.40
2:H:1441:UNK:O	2:H:1443:UNK:N	2.54	0.40
2:H:1650:UNK:O	2:H:1652:UNK:N	2.54	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:1727:LYS:C	2:H:1729:ILE:H	2.25	0.40
2:H:248:HIS:C	2:H:250:VAL:N	2.70	0.40
2:H:1:MET:HB3	2:H:2:ASP:H	1.57	0.40
2:H:406:ARG:O	2:H:407:ILE:O	2.40	0.40
2:H:432:LEU:HD21	2:H:484:ILE:HG22	2.03	0.40
2:H:490:TRP:O	2:H:491:GLU:C	2.60	0.40
2:H:698:UNK:H	2:H:702:UNK:CB	2.34	0.40

All (38) symmetry-related close contacts are listed below. The label for Atom-2 includes the symmetry operator and encoded unit-cell translations to be applied.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1150:ASP:OD1	1:D:1181:PHE:CE2[7_555]	1.80	0.40
1:A:1150:ASP:OD1	1:G:1181:PHE:CE2[7_555]	1.85	0.35
1:A:1181:PHE:CE2	1:G:1150:ASP:OD1[7_555]	1.85	0.35
1:D:1150:ASP:CG	1:D:1181:PHE:CE2[7_555]	1.87	0.33
1:A:1150:ASP:CG	1:G:1181:PHE:CE2[7_555]	1.87	0.33
1:A:1181:PHE:CE1	1:G:1150:ASP:CB[7_555]	1.88	0.32
1:D:1150:ASP:CG	1:D:1181:PHE:CD2[7_555]	1.89	0.31
1:A:1150:ASP:CB	1:G:1181:PHE:CE1[7_555]	1.89	0.31
1:A:1181:PHE:CE2	1:G:1150:ASP:CG[7_555]	1.89	0.31
1:A:1181:PHE:CZ	1:G:1150:ASP:CG[7_555]	1.91	0.29
1:A:1150:ASP:CG	1:G:1181:PHE:CZ[7_555]	1.92	0.28
1:D:1150:ASP:CG	1:D:1181:PHE:CZ[7_555]	1.96	0.24
1:A:1150:ASP:CB	1:G:1181:PHE:CZ[7_555]	1.97	0.23
1:D:1150:ASP:CB	1:D:1181:PHE:CE1[7_555]	1.97	0.23
1:A:1181:PHE:CE1	1:G:1150:ASP:CG[7_555]	1.97	0.23
1:D:1150:ASP:OD2	1:D:1181:PHE:CD1[7_555]	1.97	0.23
1:A:1150:ASP:CG	1:G:1181:PHE:CD2[7_555]	1.98	0.22
1:A:1181:PHE:CD2	1:G:1150:ASP:CG[7_555]	1.98	0.22
1:A:1181:PHE:CD1	1:G:1150:ASP:CB[7_555]	1.99	0.21
1:A:1181:PHE:CZ	1:G:1150:ASP:CB[7_555]	2.00	0.20
1:D:1150:ASP:CB	1:D:1181:PHE:CD1[7_555]	2.00	0.20
1:A:1150:ASP:CG	1:G:1181:PHE:CE1[7_555]	2.00	0.20
1:D:1150:ASP:CG	1:D:1181:PHE:CE1[7_555]	2.01	0.19
1:A:1150:ASP:CB	1:G:1181:PHE:CD1[7_555]	2.01	0.19
1:A:1181:PHE:CD1	1:G:1150:ASP:OD2[7_555]	2.02	0.18
1:A:1150:ASP:OD2	1:G:1181:PHE:CD1[7_555]	2.04	0.16
1:D:1150:ASP:CG	1:D:1181:PHE:CG[7_555]	2.05	0.15
1:D:1150:ASP:CG	1:D:1181:PHE:CD1[7_555]	2.05	0.15

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1181:PHE:CD1	1:G:1150:ASP:CG[7_555]	2.08	0.12
1:D:1150:ASP:CB	1:D:1181:PHE:CZ[7_555]	2.08	0.12
1:A:1150:ASP:CB	1:G:1181:PHE:CE2[7_555]	2.11	0.09
1:A:1150:ASP:CG	1:G:1181:PHE:CD1[7_555]	2.11	0.09
1:A:1181:PHE:CG	1:G:1150:ASP:CG[7_555]	2.13	0.07
1:D:1150:ASP:CB	1:D:1181:PHE:CG[7_555]	2.15	0.05
1:A:1150:ASP:CG	1:G:1181:PHE:CG[7_555]	2.15	0.05
1:D:1150:ASP:CB	1:D:1181:PHE:CE2[7_555]	2.16	0.04
1:A:1181:PHE:CE2	1:G:1150:ASP:CB[7_555]	2.16	0.04
1:D:1150:ASP:CB	1:D:1181:PHE:CD2[7_555]	2.18	0.02

5.3 Torsion angles

5.3.1 Protein backbone

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	1069/1688 (63%)	401 (38%)	298 (28%)	370 (35%)	0	0
1	D	1069/1688 (63%)	396 (37%)	307 (29%)	366 (34%)	0	0
1	G	1069/1688 (63%)	398 (37%)	307 (29%)	364 (34%)	0	0
2	B	817/2006 (41%)	356 (44%)	245 (30%)	216 (26%)	0	1
2	E	817/2006 (41%)	357 (44%)	244 (30%)	216 (26%)	0	1
2	H	817/2006 (41%)	352 (43%)	247 (30%)	218 (27%)	0	0
All	All	5658/11082 (51%)	2260 (40%)	1648 (29%)	1750 (31%)	0	0

All (1750) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	683	ALA
1	A	723	ALA
1	A	724	LYS
1	A	741	SER
1	A	742	LYS

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Mol	Chain	Res	Type
1	A	772	ALA
1	A	776	GLU
1	A	782	GLU
1	A	785	ASP
1	A	787	LYS
1	A	797	THR
1	A	833	PHE
1	A	853	TRP
1	A	855	SER
1	A	865	CYS
1	A	867	ALA
1	A	869	ILE
1	A	871	TRP
1	A	873	ARG
1	A	877	LEU
1	A	878	MET
1	A	881	ASN
1	A	883	ILE
1	A	884	ILE
1	A	895	THR
1	A	897	SER
1	A	958	SER
1	A	985	ARG
1	A	987	ASN
1	A	991	ASP
1	A	993	PRO
1	A	995	LEU
1	A	999	LYS
1	A	1013	LEU
1	A	1015	LEU
1	A	1029	PRO
1	A	1034	ARG
1	A	1046	SER
1	A	1047	LEU
1	A	1059	PHE
1	A	1069	GLY
1	A	1071	PRO
1	A	1072	TYR
1	A	1075	TRP
1	A	1081	LYS
1	A	1082	GLU
1	A	1086	ASP

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Mol	Chain	Res	Type
1	A	1090	LYS
1	A	1091	ALA
1	A	1100	HIS
1	A	1105	LEU
1	A	1107	GLU
1	A	1108	PRO
1	A	1118	LYS
1	A	1131	LEU
1	A	1136	ALA
1	A	1139	GLU
1	A	1143	GLN
1	A	1158	PRO
1	A	1162	GLU
1	A	1169	LYS
1	A	1175	ILE
1	A	1179	LEU
1	A	1189	ILE
1	A	1190	PRO
1	A	1191	THR
1	A	1194	ASN
1	A	1197	THR
1	A	1209	ASP
1	A	1210	PRO
1	A	1212	THR
1	A	1233	GLU
1	A	1243	VAL
1	A	1246	CYS
1	A	1254	VAL
1	A	1255	SER
1	A	1264	ARG
1	A	1292	ILE
1	A	1312	VAL
1	A	1320	LEU
1	A	1332	TYR
1	A	1349	THR
1	A	1360	ARG
1	A	1361	THR
1	A	1364	GLU
1	A	1365	MET
1	A	1370	THR
1	A	1377	MET
1	A	1378	GLU

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Mol	Chain	Res	Type
1	A	1397	GLY
1	A	1408	ALA
1	A	1420	ALA
1	A	1423	LYS
1	A	1425	ILE
1	A	1426	LEU
1	A	1427	THR
1	A	1432	HIS
1	A	1435	SER
1	A	1437	LYS
1	A	1441	PRO
1	A	1446	LYS
1	A	1447	TYR
1	A	1453	VAL
1	A	1454	THR
1	A	1463	VAL
1	A	1474	ALA
1	A	1477	ILE
1	A	1513	TYR
1	A	1515	ARG
1	A	1519	ILE
1	A	1521	PRO
1	A	1531	LEU
1	A	1532	THR
1	A	1544	THR
1	A	1547	LYS
1	A	1551	LYS
1	A	1552	ASN
1	A	1555	ALA
1	A	1566	ARG
1	A	1572	VAL
1	A	1581	THR
1	A	1582	GLY
1	A	1600	LEU
1	A	1608	ASN
1	A	1611	ALA
1	A	1622	GLU
1	A	1624	VAL
1	A	1625	LEU
1	A	1627	PRO
1	A	1629	LYS
1	A	1630	THR

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Mol	Chain	Res	Type
1	A	1634	ASP
1	A	1637	ARG
1	A	1642	THR
1	A	1651	GLY
1	A	1666	THR
1	A	1674	VAL
1	A	1688	PHE
1	A	1702	GLU
1	A	1706	TYR
1	A	1708	ASP
1	A	1711	GLU
1	A	1721	ARG
1	A	1733	PHE
1	A	1738	ILE
1	A	1740	SER
2	B	19	VAL
2	B	32	GLN
2	B	49	ALA
2	B	69	SER
2	B	75	SER
2	B	77	VAL
2	B	126	TYR
2	B	133	ALA
2	B	135	ARG
2	B	137	PHE
2	B	143	SER
2	B	145	LEU
2	B	148	ALA
2	B	182	VAL
2	B	183	LEU
2	B	184	VAL
2	B	186	ASP
2	B	188	ILE
2	B	216	LEU
2	B	236	ILE
2	B	265	SER
2	B	281	VAL
2	B	336	SER
2	B	342	SER
2	B	354	ASN
2	B	384	GLN
2	B	385	SER

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Mol	Chain	Res	Type
2	B	407	ILE
2	B	408	PRO
2	B	417	SER
2	B	445	LYS
2	B	447	ASN
2	B	456	GLN
2	B	490	TRP
2	B	529	VAL
2	B	535	ILE
2	B	537	PRO
2	B	1672	GLN
2	B	1674	GLN
2	B	1677	GLY
2	B	1686	ALA
2	B	1688	GLN
2	B	1711	ILE
2	B	1715	VAL
2	B	1718	THR
2	B	1727	LYS
2	B	1734	SER
2	B	1746	LEU
2	B	1751	ILE
2	B	1752	PHE
2	B	1753	LYS
2	B	1757	GLU
2	B	1774	THR
2	B	1800	ALA
2	B	1818	LEU
2	B	1820	ASP
2	B	1825	GLU
2	B	1861	ARG
2	B	1897	GLN
2	B	1915	ASN
2	B	1918	LYS
2	B	1924	ILE
1	D	683	ALA
1	D	723	ALA
1	D	724	LYS
1	D	741	SER
1	D	742	LYS
1	D	772	ALA
1	D	775	PRO

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Mol	Chain	Res	Type
1	D	776	GLU
1	D	782	GLU
1	D	785	ASP
1	D	787	LYS
1	D	797	THR
1	D	833	PHE
1	D	865	CYS
1	D	867	ALA
1	D	869	ILE
1	D	871	TRP
1	D	873	ARG
1	D	877	LEU
1	D	878	MET
1	D	881	ASN
1	D	883	ILE
1	D	884	ILE
1	D	895	THR
1	D	897	SER
1	D	958	SER
1	D	985	ARG
1	D	987	ASN
1	D	991	ASP
1	D	993	PRO
1	D	995	LEU
1	D	999	LYS
1	D	1013	LEU
1	D	1015	LEU
1	D	1029	PRO
1	D	1034	ARG
1	D	1046	SER
1	D	1047	LEU
1	D	1059	PHE
1	D	1069	GLY
1	D	1071	PRO
1	D	1072	TYR
1	D	1075	TRP
1	D	1080	THR
1	D	1081	LYS
1	D	1082	GLU
1	D	1086	ASP
1	D	1091	ALA
1	D	1097	ILE

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Mol	Chain	Res	Type
1	D	1100	HIS
1	D	1104	ARG
1	D	1105	LEU
1	D	1107	GLU
1	D	1108	PRO
1	D	1118	LYS
1	D	1131	LEU
1	D	1136	ALA
1	D	1139	GLU
1	D	1143	GLN
1	D	1158	PRO
1	D	1162	GLU
1	D	1169	LYS
1	D	1175	ILE
1	D	1179	LEU
1	D	1189	ILE
1	D	1190	PRO
1	D	1191	THR
1	D	1194	ASN
1	D	1197	THR
1	D	1209	ASP
1	D	1210	PRO
1	D	1212	THR
1	D	1233	GLU
1	D	1243	VAL
1	D	1246	CYS
1	D	1254	VAL
1	D	1255	SER
1	D	1264	ARG
1	D	1268	GLU
1	D	1292	ILE
1	D	1312	VAL
1	D	1320	LEU
1	D	1332	TYR
1	D	1349	THR
1	D	1360	ARG
1	D	1361	THR
1	D	1364	GLU
1	D	1365	MET
1	D	1370	THR
1	D	1377	MET
1	D	1378	GLU

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Mol	Chain	Res	Type
1	D	1397	GLY
1	D	1408	ALA
1	D	1420	ALA
1	D	1423	LYS
1	D	1425	ILE
1	D	1426	LEU
1	D	1427	THR
1	D	1432	HIS
1	D	1435	SER
1	D	1437	LYS
1	D	1441	PRO
1	D	1446	LYS
1	D	1447	TYR
1	D	1453	VAL
1	D	1454	THR
1	D	1463	VAL
1	D	1474	ALA
1	D	1477	ILE
1	D	1513	TYR
1	D	1515	ARG
1	D	1519	ILE
1	D	1521	PRO
1	D	1529	TYR
1	D	1531	LEU
1	D	1532	THR
1	D	1544	THR
1	D	1547	LYS
1	D	1551	LYS
1	D	1552	ASN
1	D	1553	GLU
1	D	1555	ALA
1	D	1566	ARG
1	D	1572	VAL
1	D	1581	THR
1	D	1582	GLY
1	D	1600	LEU
1	D	1608	ASN
1	D	1611	ALA
1	D	1622	GLU
1	D	1624	VAL
1	D	1625	LEU
1	D	1627	PRO

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Mol	Chain	Res	Type
1	D	1629	LYS
1	D	1630	THR
1	D	1634	ASP
1	D	1636	VAL
1	D	1637	ARG
1	D	1642	THR
1	D	1651	GLY
1	D	1666	THR
1	D	1674	VAL
1	D	1688	PHE
1	D	1702	GLU
1	D	1706	TYR
1	D	1708	ASP
1	D	1711	GLU
1	D	1721	ARG
1	D	1733	PHE
1	D	1738	ILE
1	D	1740	SER
2	E	19	VAL
2	E	32	GLN
2	E	49	ALA
2	E	69	SER
2	E	75	SER
2	E	77	VAL
2	E	126	TYR
2	E	133	ALA
2	E	135	ARG
2	E	137	PHE
2	E	143	SER
2	E	145	LEU
2	E	148	ALA
2	E	182	VAL
2	E	183	LEU
2	E	184	VAL
2	E	186	ASP
2	E	188	ILE
2	E	216	LEU
2	E	236	ILE
2	E	281	VAL
2	E	336	SER
2	E	342	SER
2	E	354	ASN

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Mol	Chain	Res	Type
2	E	384	GLN
2	E	385	SER
2	E	407	ILE
2	E	408	PRO
2	E	417	SER
2	E	445	LYS
2	E	447	ASN
2	E	456	GLN
2	E	490	TRP
2	E	529	VAL
2	E	535	ILE
2	E	537	PRO
2	E	1672	GLN
2	E	1674	GLN
2	E	1677	GLY
2	E	1686	ALA
2	E	1688	GLN
2	E	1711	ILE
2	E	1715	VAL
2	E	1718	THR
2	E	1727	LYS
2	E	1734	SER
2	E	1746	LEU
2	E	1751	ILE
2	E	1752	PHE
2	E	1753	LYS
2	E	1757	GLU
2	E	1774	THR
2	E	1800	ALA
2	E	1818	LEU
2	E	1820	ASP
2	E	1825	GLU
2	E	1861	ARG
2	E	1897	GLN
2	E	1915	ASN
2	E	1918	LYS
2	E	1924	ILE
1	G	683	ALA
1	G	723	ALA
1	G	724	LYS
1	G	741	SER
1	G	742	LYS

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Mol	Chain	Res	Type
1	G	772	ALA
1	G	775	PRO
1	G	776	GLU
1	G	782	GLU
1	G	785	ASP
1	G	787	LYS
1	G	797	THR
1	G	833	PHE
1	G	853	TRP
1	G	855	SER
1	G	867	ALA
1	G	869	ILE
1	G	871	TRP
1	G	873	ARG
1	G	877	LEU
1	G	878	MET
1	G	881	ASN
1	G	883	ILE
1	G	884	ILE
1	G	895	THR
1	G	897	SER
1	G	958	SER
1	G	985	ARG
1	G	987	ASN
1	G	991	ASP
1	G	993	PRO
1	G	995	LEU
1	G	999	LYS
1	G	1013	LEU
1	G	1015	LEU
1	G	1029	PRO
1	G	1034	ARG
1	G	1046	SER
1	G	1047	LEU
1	G	1059	PHE
1	G	1069	GLY
1	G	1071	PRO
1	G	1072	TYR
1	G	1075	TRP
1	G	1081	LYS
1	G	1082	GLU
1	G	1086	ASP

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Mol	Chain	Res	Type
1	G	1090	LYS
1	G	1091	ALA
1	G	1100	HIS
1	G	1104	ARG
1	G	1105	LEU
1	G	1107	GLU
1	G	1108	PRO
1	G	1118	LYS
1	G	1131	LEU
1	G	1136	ALA
1	G	1139	GLU
1	G	1143	GLN
1	G	1158	PRO
1	G	1162	GLU
1	G	1169	LYS
1	G	1175	ILE
1	G	1179	LEU
1	G	1189	ILE
1	G	1190	PRO
1	G	1191	THR
1	G	1194	ASN
1	G	1197	THR
1	G	1209	ASP
1	G	1210	PRO
1	G	1212	THR
1	G	1233	GLU
1	G	1243	VAL
1	G	1246	CYS
1	G	1254	VAL
1	G	1255	SER
1	G	1264	ARG
1	G	1268	GLU
1	G	1292	ILE
1	G	1320	LEU
1	G	1332	TYR
1	G	1349	THR
1	G	1360	ARG
1	G	1361	THR
1	G	1364	GLU
1	G	1365	MET
1	G	1370	THR
1	G	1377	MET

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Mol	Chain	Res	Type
1	G	1378	GLU
1	G	1397	GLY
1	G	1408	ALA
1	G	1420	ALA
1	G	1423	LYS
1	G	1425	ILE
1	G	1426	LEU
1	G	1427	THR
1	G	1432	HIS
1	G	1435	SER
1	G	1437	LYS
1	G	1441	PRO
1	G	1446	LYS
1	G	1447	TYR
1	G	1453	VAL
1	G	1454	THR
1	G	1463	VAL
1	G	1474	ALA
1	G	1477	ILE
1	G	1513	TYR
1	G	1515	ARG
1	G	1519	ILE
1	G	1521	PRO
1	G	1531	LEU
1	G	1532	THR
1	G	1544	THR
1	G	1547	LYS
1	G	1551	LYS
1	G	1552	ASN
1	G	1553	GLU
1	G	1555	ALA
1	G	1566	ARG
1	G	1572	VAL
1	G	1581	THR
1	G	1582	GLY
1	G	1600	LEU
1	G	1608	ASN
1	G	1611	ALA
1	G	1622	GLU
1	G	1624	VAL
1	G	1625	LEU
1	G	1627	PRO

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Mol	Chain	Res	Type
1	G	1629	LYS
1	G	1630	THR
1	G	1634	ASP
1	G	1637	ARG
1	G	1642	THR
1	G	1651	GLY
1	G	1666	THR
1	G	1674	VAL
1	G	1688	PHE
1	G	1702	GLU
1	G	1706	TYR
1	G	1708	ASP
1	G	1711	GLU
1	G	1721	ARG
1	G	1733	PHE
1	G	1738	ILE
1	G	1740	SER
2	H	19	VAL
2	H	32	GLN
2	H	49	ALA
2	H	69	SER
2	H	75	SER
2	H	77	VAL
2	H	126	TYR
2	H	133	ALA
2	H	135	ARG
2	H	137	PHE
2	H	143	SER
2	H	145	LEU
2	H	148	ALA
2	H	182	VAL
2	H	183	LEU
2	H	184	VAL
2	H	186	ASP
2	H	188	ILE
2	H	216	LEU
2	H	236	ILE
2	H	265	SER
2	H	281	VAL
2	H	336	SER
2	H	354	ASN
2	H	384	GLN

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Mol	Chain	Res	Type
2	H	385	SER
2	H	407	ILE
2	H	408	PRO
2	H	417	SER
2	H	445	LYS
2	H	447	ASN
2	H	456	GLN
2	H	471	LEU
2	H	490	TRP
2	H	529	VAL
2	H	535	ILE
2	H	537	PRO
2	H	1672	GLN
2	H	1674	GLN
2	H	1677	GLY
2	H	1686	ALA
2	H	1688	GLN
2	H	1711	ILE
2	H	1715	VAL
2	H	1718	THR
2	H	1727	LYS
2	H	1734	SER
2	H	1746	LEU
2	H	1751	ILE
2	H	1752	PHE
2	H	1753	LYS
2	H	1757	GLU
2	H	1774	THR
2	H	1800	ALA
2	H	1818	LEU
2	H	1820	ASP
2	H	1825	GLU
2	H	1861	ARG
2	H	1897	GLN
2	H	1915	ASN
2	H	1918	LYS
2	H	1924	ILE
1	A	671	VAL
1	A	674	LYS
1	A	677	TYR
1	A	688	ILE
1	A	696	LEU

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Mol	Chain	Res	Type
1	A	701	ALA
1	A	728	LYS
1	A	743	GLN
1	A	775	PRO
1	A	792	HIS
1	A	832	THR
1	A	858	TRP
1	A	866	GLY
1	A	882	ASN
1	A	900	GLU
1	A	931	GLN
1	A	936	LEU
1	A	937	LYS
1	A	941	ALA
1	A	969	ASN
1	A	972	SER
1	A	973	ALA
1	A	1004	ILE
1	A	1062	TYR
1	A	1076	VAL
1	A	1080	THR
1	A	1083	PRO
1	A	1084	VAL
1	A	1097	ILE
1	A	1098	LEU
1	A	1104	ARG
1	A	1130	ASP
1	A	1133	PRO
1	A	1149	GLY
1	A	1152	VAL
1	A	1164	SER
1	A	1178	ALA
1	A	1185	VAL
1	A	1195	ALA
1	A	1198	TYR
1	A	1203	ASP
1	A	1206	SER
1	A	1227	GLY
1	A	1240	VAL
1	A	1245	ASN
1	A	1249	SER
1	A	1252	GLY

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Mol	Chain	Res	Type
1	A	1266	LYS
1	A	1268	GLU
1	A	1274	ILE
1	A	1287	VAL
1	A	1302	VAL
1	A	1304	ALA
1	A	1307	THR
1	A	1324	ALA
1	A	1329	VAL
1	A	1339	GLY
1	A	1350	SER
1	A	1376	PHE
1	A	1380	GLN
1	A	1382	ALA
1	A	1421	PRO
1	A	1442	ASN
1	A	1457	ALA
1	A	1462	TRP
1	A	1475	GLU
1	A	1478	PRO
1	A	1479	SER
1	A	1497	ALA
1	A	1529	TYR
1	A	1530	GLY
1	A	1533	ILE
1	A	1538	VAL
1	A	1543	GLY
1	A	1553	GLU
1	A	1576	PHE
1	A	1587	ALA
1	A	1615	ASP
1	A	1636	VAL
1	A	1639	VAL
1	A	1641	ILE
1	A	1665	ILE
1	A	1668	ASP
1	A	1670	TYR
1	A	1689	HIS
1	A	1700	SER
1	A	1720	ALA
1	A	1727	LYS
1	A	1729	GLY

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Mol	Chain	Res	Type
1	A	1741	LYS
1	A	1742	ASP
1	A	1744	TYR
2	B	5	SER
2	B	12	SER
2	B	45	THR
2	B	59	GLU
2	B	72	VAL
2	B	127	ILE
2	B	198	LEU
2	B	204	ASP
2	B	215	ILE
2	B	218	TRP
2	B	229	ASP
2	B	254	LYS
2	B	266	TYR
2	B	268	LYS
2	B	298	LYS
2	B	302	VAL
2	B	316	ASN
2	B	355	LYS
2	B	396	ALA
2	B	402	LEU
2	B	409	PHE
2	B	410	SER
2	B	455	ILE
2	B	467	ASP
2	B	471	LEU
2	B	479	ILE
2	B	485	ARG
2	B	487	PRO
2	B	506	PRO
2	B	508	GLY
2	B	526	ARG
2	B	533	LEU
2	B	540	ASP
2	B	542	GLY
2	B	1703	GLY
2	B	1704	PHE
2	B	1731	GLU
2	B	1738	PHE
2	B	1756	ASN

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Mol	Chain	Res	Type
2	B	1758	HIS
2	B	1759	SER
2	B	1765	ARG
2	B	1817	SER
2	B	1835	GLY
2	B	1845	ASP
2	B	1849	ARG
2	B	1862	VAL
2	B	1878	VAL
2	B	1883	GLY
2	B	1917	ILE
2	B	1921	LYS
2	B	1939	HIS
1	D	671	VAL
1	D	674	LYS
1	D	677	TYR
1	D	688	ILE
1	D	701	ALA
1	D	728	LYS
1	D	743	GLN
1	D	784	ILE
1	D	792	HIS
1	D	811	SER
1	D	832	THR
1	D	853	TRP
1	D	855	SER
1	D	858	TRP
1	D	866	GLY
1	D	882	ASN
1	D	900	GLU
1	D	931	GLN
1	D	936	LEU
1	D	937	LYS
1	D	941	ALA
1	D	969	ASN
1	D	972	SER
1	D	973	ALA
1	D	1004	ILE
1	D	1062	TYR
1	D	1076	VAL
1	D	1083	PRO
1	D	1084	VAL

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Mol	Chain	Res	Type
1	D	1090	LYS
1	D	1093	TYR
1	D	1098	LEU
1	D	1133	PRO
1	D	1149	GLY
1	D	1152	VAL
1	D	1164	SER
1	D	1178	ALA
1	D	1185	VAL
1	D	1195	ALA
1	D	1198	TYR
1	D	1203	ASP
1	D	1206	SER
1	D	1227	GLY
1	D	1240	VAL
1	D	1249	SER
1	D	1252	GLY
1	D	1266	LYS
1	D	1274	ILE
1	D	1287	VAL
1	D	1302	VAL
1	D	1304	ALA
1	D	1307	THR
1	D	1324	ALA
1	D	1329	VAL
1	D	1339	GLY
1	D	1350	SER
1	D	1369	ALA
1	D	1376	PHE
1	D	1380	GLN
1	D	1382	ALA
1	D	1421	PRO
1	D	1433	HIS
1	D	1442	ASN
1	D	1457	ALA
1	D	1462	TRP
1	D	1475	GLU
1	D	1478	PRO
1	D	1479	SER
1	D	1497	ALA
1	D	1530	GLY
1	D	1533	ILE

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Mol	Chain	Res	Type
1	D	1538	VAL
1	D	1543	GLY
1	D	1576	PHE
1	D	1587	ALA
1	D	1615	ASP
1	D	1639	VAL
1	D	1641	ILE
1	D	1665	ILE
1	D	1668	ASP
1	D	1670	TYR
1	D	1689	HIS
1	D	1700	SER
1	D	1720	ALA
1	D	1727	LYS
1	D	1729	GLY
1	D	1741	LYS
1	D	1742	ASP
1	D	1744	TYR
2	E	5	SER
2	E	12	SER
2	E	45	THR
2	E	59	GLU
2	E	72	VAL
2	E	127	ILE
2	E	165	ASN
2	E	198	LEU
2	E	204	ASP
2	E	215	ILE
2	E	218	TRP
2	E	229	ASP
2	E	254	LYS
2	E	265	SER
2	E	266	TYR
2	E	268	LYS
2	E	298	LYS
2	E	302	VAL
2	E	316	ASN
2	E	355	LYS
2	E	396	ALA
2	E	402	LEU
2	E	409	PHE
2	E	410	SER

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Mol	Chain	Res	Type
2	E	455	ILE
2	E	467	ASP
2	E	471	LEU
2	E	479	ILE
2	E	485	ARG
2	E	487	PRO
2	E	489	LYS
2	E	506	PRO
2	E	508	GLY
2	E	526	ARG
2	E	533	LEU
2	E	542	GLY
2	E	1703	GLY
2	E	1704	PHE
2	E	1731	GLU
2	E	1738	PHE
2	E	1756	ASN
2	E	1758	HIS
2	E	1759	SER
2	E	1765	ARG
2	E	1810	GLY
2	E	1817	SER
2	E	1835	GLY
2	E	1845	ASP
2	E	1849	ARG
2	E	1862	VAL
2	E	1878	VAL
2	E	1883	GLY
2	E	1917	ILE
2	E	1939	HIS
1	G	671	VAL
1	G	674	LYS
1	G	677	TYR
1	G	688	ILE
1	G	696	LEU
1	G	701	ALA
1	G	728	LYS
1	G	743	GLN
1	G	792	HIS
1	G	811	SER
1	G	832	THR
1	G	846	LEU

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Mol	Chain	Res	Type
1	G	858	TRP
1	G	865	CYS
1	G	866	GLY
1	G	882	ASN
1	G	900	GLU
1	G	931	GLN
1	G	936	LEU
1	G	937	LYS
1	G	941	ALA
1	G	972	SER
1	G	973	ALA
1	G	1004	ILE
1	G	1062	TYR
1	G	1076	VAL
1	G	1080	THR
1	G	1083	PRO
1	G	1084	VAL
1	G	1097	ILE
1	G	1098	LEU
1	G	1130	ASP
1	G	1133	PRO
1	G	1149	GLY
1	G	1152	VAL
1	G	1164	SER
1	G	1178	ALA
1	G	1185	VAL
1	G	1195	ALA
1	G	1198	TYR
1	G	1203	ASP
1	G	1206	SER
1	G	1227	GLY
1	G	1240	VAL
1	G	1249	SER
1	G	1252	GLY
1	G	1266	LYS
1	G	1274	ILE
1	G	1287	VAL
1	G	1302	VAL
1	G	1304	ALA
1	G	1307	THR
1	G	1312	VAL
1	G	1324	ALA

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Mol	Chain	Res	Type
1	G	1329	VAL
1	G	1339	GLY
1	G	1350	SER
1	G	1369	ALA
1	G	1376	PHE
1	G	1380	GLN
1	G	1382	ALA
1	G	1421	PRO
1	G	1433	HIS
1	G	1442	ASN
1	G	1457	ALA
1	G	1462	TRP
1	G	1475	GLU
1	G	1478	PRO
1	G	1479	SER
1	G	1497	ALA
1	G	1529	TYR
1	G	1530	GLY
1	G	1533	ILE
1	G	1538	VAL
1	G	1543	GLY
1	G	1576	PHE
1	G	1587	ALA
1	G	1615	ASP
1	G	1636	VAL
1	G	1639	VAL
1	G	1641	ILE
1	G	1665	ILE
1	G	1668	ASP
1	G	1670	TYR
1	G	1689	HIS
1	G	1700	SER
1	G	1720	ALA
1	G	1727	LYS
1	G	1729	GLY
1	G	1741	LYS
1	G	1742	ASP
1	G	1744	TYR
2	H	5	SER
2	H	12	SER
2	H	45	THR
2	H	59	GLU

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Mol	Chain	Res	Type
2	H	72	VAL
2	H	127	ILE
2	H	165	ASN
2	H	198	LEU
2	H	204	ASP
2	H	215	ILE
2	H	218	TRP
2	H	229	ASP
2	H	254	LYS
2	H	266	TYR
2	H	268	LYS
2	H	298	LYS
2	H	302	VAL
2	H	316	ASN
2	H	342	SER
2	H	355	LYS
2	H	396	ALA
2	H	402	LEU
2	H	409	PHE
2	H	410	SER
2	H	455	ILE
2	H	467	ASP
2	H	479	ILE
2	H	485	ARG
2	H	487	PRO
2	H	506	PRO
2	H	508	GLY
2	H	526	ARG
2	H	533	LEU
2	H	542	GLY
2	H	1675	GLY
2	H	1703	GLY
2	H	1704	PHE
2	H	1731	GLU
2	H	1738	PHE
2	H	1756	ASN
2	H	1758	HIS
2	H	1759	SER
2	H	1765	ARG
2	H	1817	SER
2	H	1845	ASP
2	H	1849	ARG

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Mol	Chain	Res	Type
2	H	1862	VAL
2	H	1878	VAL
2	H	1883	GLY
2	H	1917	ILE
2	H	1939	HIS
1	A	710	PHE
1	A	718	TYR
1	A	722	TYR
1	A	746	GLU
1	A	765	LEU
1	A	784	ILE
1	A	791	ALA
1	A	811	SER
1	A	857	SER
1	A	894	ARG
1	A	904	ASN
1	A	908	LEU
1	A	929	GLY
1	A	938	GLU
1	A	974	ASP
1	A	988	ILE
1	A	1048	GLU
1	A	1056	ILE
1	A	1057	MET
1	A	1093	TYR
1	A	1096	SER
1	A	1112	ASN
1	A	1142	GLU
1	A	1147	GLN
1	A	1165	VAL
1	A	1171	ALA
1	A	1173	LEU
1	A	1241	SER
1	A	1247	SER
1	A	1269	PRO
1	A	1289	MET
1	A	1301	PRO
1	A	1340	SER
1	A	1358	HIS
1	A	1369	ALA
1	A	1389	GLN
1	A	1390	ALA

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Mol	Chain	Res	Type
1	A	1392	LEU
1	A	1396	MET
1	A	1398	VAL
1	A	1433	HIS
1	A	1443	LEU
1	A	1445	MET
1	A	1456	GLU
1	A	1514	LYS
1	A	1556	THR
1	A	1563	HIS
1	A	1613	ASN
1	A	1673	TYR
1	A	1690	ASN
1	A	1704	ALA
1	A	1705	PRO
1	A	1719	LEU
1	A	1730	SER
2	B	15	SER
2	B	43	GLU
2	B	58	ALA
2	B	78	GLY
2	B	79	GLN
2	B	99	ASN
2	B	165	ASN
2	B	170	PHE
2	B	194	THR
2	B	203	LEU
2	B	226	PRO
2	B	239	PRO
2	B	256	LEU
2	B	282	ALA
2	B	322	SER
2	B	391	LEU
2	B	433	VAL
2	B	489	LYS
2	B	1675	GLY
2	B	1681	TYR
2	B	1719	ILE
2	B	1721	PHE
2	B	1724	GLU
2	B	1729	ILE
2	B	1733	TYR

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Mol	Chain	Res	Type
2	B	1790	GLU
2	B	1792	LEU
2	B	1807	HIS
2	B	1810	GLY
2	B	1813	ALA
2	B	1814	ALA
2	B	1819	ALA
2	B	1826	SER
2	B	1838	MET
2	B	1846	GLU
2	B	1863	ALA
2	B	1890	ASN
2	B	1894	GLU
2	B	1904	LEU
2	B	1928	GLN
1	D	696	LEU
1	D	710	PHE
1	D	718	TYR
1	D	722	TYR
1	D	746	GLU
1	D	751	PHE
1	D	765	LEU
1	D	791	ALA
1	D	823	ILE
1	D	846	LEU
1	D	857	SER
1	D	894	ARG
1	D	904	ASN
1	D	908	LEU
1	D	911	PRO
1	D	929	GLY
1	D	938	GLU
1	D	971	ASN
1	D	974	ASP
1	D	988	ILE
1	D	1048	GLU
1	D	1096	SER
1	D	1112	ASN
1	D	1130	ASP
1	D	1142	GLU
1	D	1147	GLN
1	D	1165	VAL

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Mol	Chain	Res	Type
1	D	1173	LEU
1	D	1245	ASN
1	D	1269	PRO
1	D	1289	MET
1	D	1301	PRO
1	D	1340	SER
1	D	1358	HIS
1	D	1371	THR
1	D	1389	GLN
1	D	1392	LEU
1	D	1396	MET
1	D	1398	VAL
1	D	1443	LEU
1	D	1445	MET
1	D	1456	GLU
1	D	1514	LYS
1	D	1556	THR
1	D	1563	HIS
1	D	1613	ASN
1	D	1673	TYR
1	D	1704	ALA
1	D	1705	PRO
1	D	1719	LEU
1	D	1730	SER
2	E	15	SER
2	E	43	GLU
2	E	58	ALA
2	E	78	GLY
2	E	79	GLN
2	E	99	ASN
2	E	194	THR
2	E	203	LEU
2	E	226	PRO
2	E	239	PRO
2	E	282	ALA
2	E	322	SER
2	E	391	LEU
2	E	433	VAL
2	E	465	GLY
2	E	524	GLY
2	E	540	ASP
2	E	1675	GLY

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Mol	Chain	Res	Type
2	E	1681	TYR
2	E	1719	ILE
2	E	1721	PHE
2	E	1724	GLU
2	E	1729	ILE
2	E	1733	TYR
2	E	1790	GLU
2	E	1792	LEU
2	E	1807	HIS
2	E	1813	ALA
2	E	1814	ALA
2	E	1819	ALA
2	E	1826	SER
2	E	1838	MET
2	E	1846	GLU
2	E	1854	MET
2	E	1863	ALA
2	E	1872	GLN
2	E	1890	ASN
2	E	1894	GLU
2	E	1904	LEU
2	E	1921	LYS
2	E	1928	GLN
1	G	710	PHE
1	G	718	TYR
1	G	722	TYR
1	G	746	GLU
1	G	751	PHE
1	G	765	LEU
1	G	784	ILE
1	G	791	ALA
1	G	857	SER
1	G	894	ARG
1	G	904	ASN
1	G	908	LEU
1	G	911	PRO
1	G	938	GLU
1	G	969	ASN
1	G	974	ASP
1	G	988	ILE
1	G	1048	GLU
1	G	1093	TYR

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Mol	Chain	Res	Type
1	G	1096	SER
1	G	1112	ASN
1	G	1142	GLU
1	G	1147	GLN
1	G	1165	VAL
1	G	1171	ALA
1	G	1173	LEU
1	G	1245	ASN
1	G	1269	PRO
1	G	1289	MET
1	G	1301	PRO
1	G	1340	SER
1	G	1358	HIS
1	G	1371	THR
1	G	1389	GLN
1	G	1390	ALA
1	G	1392	LEU
1	G	1396	MET
1	G	1398	VAL
1	G	1443	LEU
1	G	1445	MET
1	G	1456	GLU
1	G	1514	LYS
1	G	1526	LEU
1	G	1556	THR
1	G	1563	HIS
1	G	1613	ASN
1	G	1673	TYR
1	G	1704	ALA
1	G	1705	PRO
1	G	1719	LEU
1	G	1730	SER
2	H	15	SER
2	H	43	GLU
2	H	58	ALA
2	H	78	GLY
2	H	79	GLN
2	H	99	ASN
2	H	194	THR
2	H	203	LEU
2	H	226	PRO
2	H	239	PRO

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Mol	Chain	Res	Type
2	H	282	ALA
2	H	322	SER
2	H	391	LEU
2	H	433	VAL
2	H	489	LYS
2	H	540	ASP
2	H	1681	TYR
2	H	1721	PHE
2	H	1724	GLU
2	H	1728	ARG
2	H	1729	ILE
2	H	1733	TYR
2	H	1790	GLU
2	H	1792	LEU
2	H	1807	HIS
2	H	1810	GLY
2	H	1813	ALA
2	H	1814	ALA
2	H	1819	ALA
2	H	1821	VAL
2	H	1826	SER
2	H	1835	GLY
2	H	1838	MET
2	H	1846	GLU
2	H	1854	MET
2	H	1863	ALA
2	H	1872	GLN
2	H	1890	ASN
2	H	1894	GLU
2	H	1904	LEU
2	H	1921	LYS
2	H	1928	GLN
1	A	751	PHE
1	A	773	ALA
1	A	818	ARG
1	A	823	ILE
1	A	846	LEU
1	A	885	ALA
1	A	891	MET
1	A	911	PRO
1	A	968	VAL
1	A	971	ASN

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Mol	Chain	Res	Type
1	A	1032	SER
1	A	1033	ALA
1	A	1064	ASN
1	A	1156	GLU
1	A	1267	ASP
1	A	1300	THR
1	A	1371	THR
1	A	1458	GLN
1	A	1467	LEU
1	A	1498	GLU
1	A	1508	TRP
1	A	1526	LEU
1	A	1596	ALA
1	A	1658	PRO
2	B	2	ASP
2	B	16	LEU
2	B	52	ASP
2	B	92	GLU
2	B	107	LYS
2	B	111	GLU
2	B	139	LYS
2	B	187	LEU
2	B	190	PHE
2	B	253	ALA
2	B	267	LEU
2	B	318	SER
2	B	325	GLU
2	B	338	MET
2	B	351	ASP
2	B	465	GLY
2	B	495	GLN
2	B	512	LEU
2	B	524	GLY
2	B	1669	GLN
2	B	1676	MET
2	B	1728	ARG
2	B	1769	GLY
2	B	1808	SER
2	B	1821	VAL
2	B	1854	MET
2	B	1865	SER
2	B	1872	GLN

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Mol	Chain	Res	Type
2	B	1880	LYS
2	B	1898	TYR
2	B	1925	ILE
2	B	1926	GLU
1	D	773	ALA
1	D	818	ARG
1	D	885	ALA
1	D	891	MET
1	D	968	VAL
1	D	1032	SER
1	D	1056	ILE
1	D	1057	MET
1	D	1064	ASN
1	D	1156	GLU
1	D	1168	LEU
1	D	1171	ALA
1	D	1241	SER
1	D	1247	SER
1	D	1300	THR
1	D	1354	GLU
1	D	1390	ALA
1	D	1458	GLN
1	D	1467	LEU
1	D	1488	GLU
1	D	1498	GLU
1	D	1508	TRP
1	D	1526	LEU
1	D	1590	ALA
1	D	1596	ALA
1	D	1617	ILE
1	D	1658	PRO
1	D	1690	ASN
2	E	2	ASP
2	E	16	LEU
2	E	52	ASP
2	E	92	GLU
2	E	107	LYS
2	E	111	GLU
2	E	139	LYS
2	E	170	PHE
2	E	187	LEU
2	E	190	PHE

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Mol	Chain	Res	Type
2	E	253	ALA
2	E	256	LEU
2	E	267	LEU
2	E	325	GLU
2	E	338	MET
2	E	351	ASP
2	E	495	GLN
2	E	512	LEU
2	E	1676	MET
2	E	1728	ARG
2	E	1769	GLY
2	E	1771	LEU
2	E	1808	SER
2	E	1821	VAL
2	E	1880	LYS
2	E	1898	TYR
2	E	1925	ILE
2	E	1926	GLU
1	G	744	ASP
1	G	773	ALA
1	G	818	ARG
1	G	885	ALA
1	G	891	MET
1	G	929	GLY
1	G	971	ASN
1	G	1032	SER
1	G	1033	ALA
1	G	1056	ILE
1	G	1057	MET
1	G	1064	ASN
1	G	1156	GLU
1	G	1168	LEU
1	G	1241	SER
1	G	1247	SER
1	G	1300	THR
1	G	1458	GLN
1	G	1467	LEU
1	G	1488	GLU
1	G	1498	GLU
1	G	1508	TRP
1	G	1596	ALA
1	G	1687	PHE

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Mol	Chain	Res	Type
1	G	1690	ASN
2	H	2	ASP
2	H	16	LEU
2	H	52	ASP
2	H	107	LYS
2	H	111	GLU
2	H	139	LYS
2	H	170	PHE
2	H	187	LEU
2	H	190	PHE
2	H	253	ALA
2	H	256	LEU
2	H	325	GLU
2	H	338	MET
2	H	351	ASP
2	H	465	GLY
2	H	495	GLN
2	H	512	LEU
2	H	1676	MET
2	H	1719	ILE
2	H	1769	GLY
2	H	1771	LEU
2	H	1808	SER
2	H	1880	LYS
2	H	1898	TYR
2	H	1925	ILE
2	H	1926	GLU
1	A	744	ASP
1	A	745	VAL
1	A	790	PHE
1	A	812	ALA
1	A	912	GLU
1	A	930	LEU
1	A	962	ALA
1	A	978	ALA
1	A	1009	LEU
1	A	1168	LEU
1	A	1354	GLU
1	A	1488	GLU
1	A	1539	ALA
1	A	1590	ALA
1	A	1687	PHE

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Mol	Chain	Res	Type
2	B	13	HIS
2	B	31	SER
2	B	41	LEU
2	B	192	ALA
2	B	240	LEU
2	B	304	PHE
2	B	334	VAL
2	B	343	ASN
2	B	448	VAL
2	B	518	ARG
2	B	522	GLY
2	B	1692	ASN
2	B	1698	PHE
2	B	1730	ARG
2	B	1771	LEU
2	B	1772	SER
2	B	1848	GLY
1	D	744	ASP
1	D	745	VAL
1	D	790	PHE
1	D	812	ALA
1	D	835	GLY
1	D	912	GLU
1	D	930	LEU
1	D	962	ALA
1	D	978	ALA
1	D	1009	LEU
1	D	1033	ALA
1	D	1141	ALA
1	D	1267	ASP
1	D	1539	ALA
1	D	1633	THR
1	D	1687	PHE
1	D	1739	GLN
2	E	13	HIS
2	E	41	LEU
2	E	100	ASP
2	E	217	GLU
2	E	240	LEU
2	E	318	SER
2	E	334	VAL
2	E	343	ASN

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Mol	Chain	Res	Type
2	E	448	VAL
2	E	494	THR
2	E	522	GLY
2	E	1670	GLY
2	E	1692	ASN
2	E	1730	ARG
2	E	1772	SER
2	E	1848	GLY
2	E	1865	SER
1	G	745	VAL
1	G	750	GLU
1	G	790	PHE
1	G	823	ILE
1	G	896	PHE
1	G	912	GLU
1	G	928	GLY
1	G	930	LEU
1	G	962	ALA
1	G	968	VAL
1	G	978	ALA
1	G	1009	LEU
1	G	1248	GLY
1	G	1267	ASP
1	G	1354	GLU
1	G	1534	ASP
1	G	1539	ALA
1	G	1617	ILE
1	G	1633	THR
1	G	1658	PRO
1	G	1712	GLU
1	G	1739	GLN
2	H	13	HIS
2	H	31	SER
2	H	41	LEU
2	H	92	GLU
2	H	192	ALA
2	H	217	GLU
2	H	267	LEU
2	H	318	SER
2	H	334	VAL
2	H	343	ASN
2	H	448	VAL

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Mol	Chain	Res	Type
2	H	522	GLY
2	H	524	GLY
2	H	1669	GLN
2	H	1670	GLY
2	H	1698	PHE
2	H	1730	ARG
2	H	1772	SER
2	H	1796	GLY
2	H	1848	GLY
2	H	1865	SER
1	A	739	GLN
1	A	750	GLU
1	A	815	ILE
1	A	835	GLY
1	A	840	SER
1	A	880	ALA
1	A	887	GLY
1	A	896	PHE
1	A	928	GLY
1	A	957	VAL
1	A	1177	LYS
1	A	1208	VAL
1	A	1231	PRO
1	A	1322	GLY
1	A	1326	ILE
1	A	1512	PHE
1	A	1520	ALA
1	A	1534	ASP
1	A	1559	GLU
1	A	1605	ILE
1	A	1617	ILE
1	A	1640	SER
1	A	1739	GLN
2	B	100	ASP
2	B	426	PRO
2	B	494	THR
2	B	1670	GLY
2	B	1763	THR
2	B	1796	GLY
1	D	750	GLU
1	D	815	ILE
1	D	880	ALA

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Mol	Chain	Res	Type
1	D	896	PHE
1	D	928	GLY
1	D	1035	THR
1	D	1208	VAL
1	D	1313	ASP
1	D	1322	GLY
1	D	1520	ALA
1	D	1605	ILE
2	E	31	SER
2	E	192	ALA
2	E	244	ILE
2	E	304	PHE
2	E	426	PRO
2	E	518	ARG
2	E	1698	PHE
2	E	1763	THR
2	E	1796	GLY
1	G	815	ILE
1	G	835	GLY
1	G	880	ALA
1	G	887	GLY
1	G	957	VAL
1	G	1322	GLY
1	G	1512	PHE
1	G	1520	ALA
1	G	1590	ALA
1	G	1605	ILE
1	G	1640	SER
2	H	30	ALA
2	H	100	ASP
2	H	214	ASN
2	H	240	LEU
2	H	426	PRO
2	H	464	ASP
2	H	494	THR
2	H	518	ARG
2	H	1692	ASN
1	A	1215	VAL
1	A	1238	VAL
2	B	244	ILE
2	B	507	GLY
1	D	774	ILE

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Mol	Chain	Res	Type
1	D	887	GLY
1	D	957	VAL
1	D	1231	PRO
1	D	1326	ILE
1	G	774	ILE
1	G	1208	VAL
1	G	1231	PRO
1	G	1238	VAL
1	G	1297	PRO
1	G	1326	ILE
2	H	244	ILE
2	H	507	GLY
1	A	774	ILE
1	A	914	VAL
1	A	948	VAL
2	B	513	GLY
1	D	686	GLY
1	D	1238	VAL
1	D	1718	PRO
2	E	513	GLY
1	G	686	GLY
1	G	914	VAL
1	G	948	VAL
1	G	1031	GLY
1	G	1215	VAL
2	H	513	GLY
1	A	692	VAL
1	A	1031	GLY
1	A	1132	GLU
1	A	1297	PRO
1	A	1718	PRO
2	B	136	PRO
2	B	470	VAL
2	B	484	ILE
2	B	1714	PRO
1	D	682	GLY
1	D	692	VAL
1	D	914	VAL
1	D	948	VAL
1	D	1031	GLY
1	D	1215	VAL
1	D	1589	GLY

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Mol	Chain	Res	Type
2	E	507	GLY
2	E	1714	PRO
1	G	692	VAL
1	G	1132	GLU
2	H	136	PRO
2	H	1714	PRO
1	A	1589	GLY
1	D	1132	GLU
1	D	1297	PRO
2	E	470	VAL
2	E	484	ILE
2	H	470	VAL
2	H	484	ILE
1	A	682	GLY
1	A	686	GLY
1	A	1217	VAL
2	E	371	VAL
1	A	1606	PRO
1	D	1606	PRO
1	G	1606	PRO
1	A	1419	PRO
1	D	1419	PRO
1	G	1419	PRO

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	871/895 (97%)	700 (80%)	171 (20%)	1	8
1	D	871/895 (97%)	697 (80%)	174 (20%)	1	8
1	G	871/895 (97%)	696 (80%)	175 (20%)	1	8
2	B	703/703 (100%)	623 (89%)	80 (11%)	5	25
2	E	703/703 (100%)	623 (89%)	80 (11%)	5	25
2	H	703/703 (100%)	622 (88%)	81 (12%)	5	25

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
All	All	4722/4794 (98%)	3961 (84%)	761 (16%)	2 15

All (761) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	679	LEU
1	A	680	ILE
1	A	696	LEU
1	A	706	THR
1	A	707	THR
1	A	709	ARG
1	A	713	GLN
1	A	718	TYR
1	A	734	VAL
1	A	744	ASP
1	A	754	ASP
1	A	758	ASN
1	A	771	PHE
1	A	774	ILE
1	A	781	LEU
1	A	795	MET
1	A	796	LEU
1	A	800	LEU
1	A	808	LYS
1	A	823	ILE
1	A	826	MET
1	A	830	HIS
1	A	861	GLN
1	A	869	ILE
1	A	871	TRP
1	A	900	GLU
1	A	901	MET
1	A	904	ASN
1	A	912	GLU
1	A	925	ASP
1	A	930	LEU
1	A	936	LEU
1	A	991	ASP
1	A	993	PRO
1	A	994	GLU
1	A	998	TYR
1	A	1013	LEU

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Mol	Chain	Res	Type
1	A	1024	PHE
1	A	1036	ARG
1	A	1039	MET
1	A	1040	GLU
1	A	1042	PHE
1	A	1064	ASN
1	A	1067	LEU
1	A	1071	PRO
1	A	1072	TYR
1	A	1081	LYS
1	A	1082	GLU
1	A	1088	ASP
1	A	1098	LEU
1	A	1107	GLU
1	A	1111	PHE
1	A	1114	TYR
1	A	1115	ASN
1	A	1116	PRO
1	A	1117	GLU
1	A	1131	LEU
1	A	1139	GLU
1	A	1150	ASP
1	A	1152	VAL
1	A	1157	ILE
1	A	1158	PRO
1	A	1159	GLU
1	A	1162	GLU
1	A	1168	LEU
1	A	1179	LEU
1	A	1182	ASP
1	A	1183	ARG
1	A	1185	VAL
1	A	1190	PRO
1	A	1193	TRP
1	A	1196	LYS
1	A	1207	GLN
1	A	1212	THR
1	A	1213	LEU
1	A	1221	GLU
1	A	1226	SER
1	A	1243	VAL
1	A	1245	ASN

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Mol	Chain	Res	Type
1	A	1257	LEU
1	A	1261	PHE
1	A	1272	ASN
1	A	1273	ASP
1	A	1274	ILE
1	A	1275	LEU
1	A	1277	GLU
1	A	1280	ILE
1	A	1283	MET
1	A	1286	TRP
1	A	1289	MET
1	A	1291	LEU
1	A	1292	ILE
1	A	1297	PRO
1	A	1301	PRO
1	A	1310	GLU
1	A	1317	GLU
1	A	1320	LEU
1	A	1325	ARG
1	A	1329	VAL
1	A	1333	ASP
1	A	1345	ASN
1	A	1352	THR
1	A	1354	GLU
1	A	1356	PHE
1	A	1358	HIS
1	A	1367	ARG
1	A	1370	THR
1	A	1372	THR
1	A	1376	PHE
1	A	1378	GLU
1	A	1398	VAL
1	A	1412	ASP
1	A	1421	PRO
1	A	1431	GLU
1	A	1438	TYR
1	A	1441	PRO
1	A	1444	ASN
1	A	1445	MET
1	A	1447	TYR
1	A	1451	GLN
1	A	1455	ARG

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Mol	Chain	Res	Type
1	A	1462	TRP
1	A	1486	LEU
1	A	1496	GLU
1	A	1500	GLN
1	A	1506	GLN
1	A	1512	PHE
1	A	1513	TYR
1	A	1518	ARG
1	A	1519	ILE
1	A	1521	PRO
1	A	1532	THR
1	A	1536	LEU
1	A	1538	VAL
1	A	1549	ASN
1	A	1556	THR
1	A	1566	ARG
1	A	1571	PRO
1	A	1573	ILE
1	A	1581	THR
1	A	1583	HIS
1	A	1584	PRO
1	A	1585	LYS
1	A	1591	TRP
1	A	1598	GLN
1	A	1605	ILE
1	A	1606	PRO
1	A	1609	ARG
1	A	1615	ASP
1	A	1622	GLU
1	A	1625	LEU
1	A	1627	PRO
1	A	1630	THR
1	A	1631	LEU
1	A	1632	LYS
1	A	1634	ASP
1	A	1637	ARG
1	A	1641	ILE
1	A	1655	VAL
1	A	1661	LEU
1	A	1669	ARG
1	A	1685	TYR
1	A	1697	LEU

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Mol	Chain	Res	Type
1	A	1701	LYS
1	A	1706	TYR
1	A	1707	THR
1	A	1708	ASP
1	A	1732	THR
1	A	1733	PHE
1	A	1738	ILE
1	A	1741	LYS
2	B	28	PHE
2	B	29	ILE
2	B	37	PHE
2	B	38	ASN
2	B	41	LEU
2	B	64	PHE
2	B	72	VAL
2	B	82	GLN
2	B	85	ASN
2	B	87	CYS
2	B	88	LEU
2	B	95	TYR
2	B	96	LEU
2	B	97	GLU
2	B	99	ASN
2	B	101	ILE
2	B	102	HIS
2	B	109	LEU
2	B	112	ASN
2	B	138	ASP
2	B	146	PHE
2	B	180	TYR
2	B	181	HIS
2	B	199	ILE
2	B	221	ASN
2	B	224	ASN
2	B	245	GLN
2	B	259	THR
2	B	267	LEU
2	B	285	GLU
2	B	293	PHE
2	B	317	THR
2	B	328	LEU
2	B	330	ASN

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Mol	Chain	Res	Type
2	B	331	ASN
2	B	339	LEU
2	B	344	LEU
2	B	372	ASN
2	B	386	LEU
2	B	389	LEU
2	B	408	PRO
2	B	418	ASN
2	B	438	LEU
2	B	461	ASP
2	B	463	PHE
2	B	483	ILE
2	B	503	ASP
2	B	521	ASP
2	B	526	ARG
2	B	528	ILE
2	B	532	THR
2	B	533	LEU
2	B	535	ILE
2	B	537	PRO
2	B	543	PHE
2	B	1669	GLN
2	B	1672	GLN
2	B	1680	LEU
2	B	1681	TYR
2	B	1698	PHE
2	B	1701	THR
2	B	1704	PHE
2	B	1712	ASN
2	B	1718	THR
2	B	1721	PHE
2	B	1737	ILE
2	B	1743	ASP
2	B	1752	PHE
2	B	1755	ILE
2	B	1764	PHE
2	B	1812	TYR
2	B	1825	GLU
2	B	1833	TYR
2	B	1834	ARG
2	B	1871	LEU
2	B	1873	TYR

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Mol	Chain	Res	Type
2	B	1895	ASN
2	B	1899	VAL
2	B	1903	ASP
2	B	1907	LEU
1	D	679	LEU
1	D	680	ILE
1	D	696	LEU
1	D	706	THR
1	D	707	THR
1	D	709	ARG
1	D	713	GLN
1	D	718	TYR
1	D	734	VAL
1	D	744	ASP
1	D	754	ASP
1	D	758	ASN
1	D	771	PHE
1	D	774	ILE
1	D	781	LEU
1	D	795	MET
1	D	796	LEU
1	D	800	LEU
1	D	808	LYS
1	D	823	ILE
1	D	826	MET
1	D	830	HIS
1	D	861	GLN
1	D	869	ILE
1	D	871	TRP
1	D	900	GLU
1	D	901	MET
1	D	904	ASN
1	D	912	GLU
1	D	925	ASP
1	D	930	LEU
1	D	936	LEU
1	D	991	ASP
1	D	993	PRO
1	D	994	GLU
1	D	998	TYR
1	D	1013	LEU
1	D	1024	PHE

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Mol	Chain	Res	Type
1	D	1036	ARG
1	D	1040	GLU
1	D	1042	PHE
1	D	1064	ASN
1	D	1067	LEU
1	D	1071	PRO
1	D	1072	TYR
1	D	1081	LYS
1	D	1082	GLU
1	D	1088	ASP
1	D	1098	LEU
1	D	1107	GLU
1	D	1111	PHE
1	D	1114	TYR
1	D	1115	ASN
1	D	1116	PRO
1	D	1117	GLU
1	D	1131	LEU
1	D	1139	GLU
1	D	1150	ASP
1	D	1152	VAL
1	D	1157	ILE
1	D	1158	PRO
1	D	1159	GLU
1	D	1162	GLU
1	D	1168	LEU
1	D	1179	LEU
1	D	1182	ASP
1	D	1183	ARG
1	D	1185	VAL
1	D	1190	PRO
1	D	1193	TRP
1	D	1196	LYS
1	D	1207	GLN
1	D	1212	THR
1	D	1213	LEU
1	D	1218	SER
1	D	1221	GLU
1	D	1226	SER
1	D	1243	VAL
1	D	1245	ASN
1	D	1257	LEU

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Mol	Chain	Res	Type
1	D	1261	PHE
1	D	1269	PRO
1	D	1272	ASN
1	D	1273	ASP
1	D	1274	ILE
1	D	1275	LEU
1	D	1277	GLU
1	D	1280	ILE
1	D	1283	MET
1	D	1286	TRP
1	D	1289	MET
1	D	1291	LEU
1	D	1292	ILE
1	D	1297	PRO
1	D	1301	PRO
1	D	1310	GLU
1	D	1317	GLU
1	D	1320	LEU
1	D	1325	ARG
1	D	1329	VAL
1	D	1333	ASP
1	D	1345	ASN
1	D	1352	THR
1	D	1354	GLU
1	D	1356	PHE
1	D	1358	HIS
1	D	1367	ARG
1	D	1370	THR
1	D	1372	THR
1	D	1376	PHE
1	D	1378	GLU
1	D	1398	VAL
1	D	1399	PRO
1	D	1412	ASP
1	D	1421	PRO
1	D	1431	GLU
1	D	1438	TYR
1	D	1441	PRO
1	D	1444	ASN
1	D	1445	MET
1	D	1447	TYR
1	D	1451	GLN

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Mol	Chain	Res	Type
1	D	1455	ARG
1	D	1462	TRP
1	D	1486	LEU
1	D	1496	GLU
1	D	1500	GLN
1	D	1506	GLN
1	D	1512	PHE
1	D	1513	TYR
1	D	1518	ARG
1	D	1519	ILE
1	D	1521	PRO
1	D	1532	THR
1	D	1536	LEU
1	D	1538	VAL
1	D	1549	ASN
1	D	1556	THR
1	D	1566	ARG
1	D	1571	PRO
1	D	1573	ILE
1	D	1581	THR
1	D	1583	HIS
1	D	1584	PRO
1	D	1585	LYS
1	D	1591	TRP
1	D	1598	GLN
1	D	1605	ILE
1	D	1606	PRO
1	D	1609	ARG
1	D	1615	ASP
1	D	1622	GLU
1	D	1625	LEU
1	D	1627	PRO
1	D	1630	THR
1	D	1631	LEU
1	D	1632	LYS
1	D	1634	ASP
1	D	1637	ARG
1	D	1641	ILE
1	D	1655	VAL
1	D	1661	LEU
1	D	1669	ARG
1	D	1677	VAL

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Mol	Chain	Res	Type
1	D	1685	TYR
1	D	1697	LEU
1	D	1701	LYS
1	D	1706	TYR
1	D	1707	THR
1	D	1708	ASP
1	D	1732	THR
1	D	1733	PHE
1	D	1738	ILE
1	D	1741	LYS
2	E	28	PHE
2	E	29	ILE
2	E	37	PHE
2	E	38	ASN
2	E	41	LEU
2	E	64	PHE
2	E	72	VAL
2	E	82	GLN
2	E	85	ASN
2	E	87	CYS
2	E	88	LEU
2	E	95	TYR
2	E	96	LEU
2	E	97	GLU
2	E	99	ASN
2	E	101	ILE
2	E	102	HIS
2	E	109	LEU
2	E	112	ASN
2	E	138	ASP
2	E	146	PHE
2	E	180	TYR
2	E	181	HIS
2	E	199	ILE
2	E	221	ASN
2	E	224	ASN
2	E	245	GLN
2	E	259	THR
2	E	267	LEU
2	E	285	GLU
2	E	293	PHE
2	E	317	THR

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Mol	Chain	Res	Type
2	E	328	LEU
2	E	330	ASN
2	E	331	ASN
2	E	339	LEU
2	E	344	LEU
2	E	372	ASN
2	E	386	LEU
2	E	389	LEU
2	E	408	PRO
2	E	418	ASN
2	E	438	LEU
2	E	461	ASP
2	E	463	PHE
2	E	483	ILE
2	E	503	ASP
2	E	521	ASP
2	E	526	ARG
2	E	528	ILE
2	E	532	THR
2	E	533	LEU
2	E	535	ILE
2	E	537	PRO
2	E	543	PHE
2	E	1669	GLN
2	E	1672	GLN
2	E	1680	LEU
2	E	1681	TYR
2	E	1698	PHE
2	E	1701	THR
2	E	1704	PHE
2	E	1712	ASN
2	E	1718	THR
2	E	1721	PHE
2	E	1737	ILE
2	E	1743	ASP
2	E	1752	PHE
2	E	1755	ILE
2	E	1764	PHE
2	E	1812	TYR
2	E	1825	GLU
2	E	1833	TYR
2	E	1834	ARG

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Mol	Chain	Res	Type
2	E	1871	LEU
2	E	1873	TYR
2	E	1895	ASN
2	E	1899	VAL
2	E	1903	ASP
2	E	1907	LEU
1	G	679	LEU
1	G	680	ILE
1	G	696	LEU
1	G	703	VAL
1	G	706	THR
1	G	707	THR
1	G	709	ARG
1	G	713	GLN
1	G	718	TYR
1	G	734	VAL
1	G	744	ASP
1	G	754	ASP
1	G	758	ASN
1	G	771	PHE
1	G	774	ILE
1	G	781	LEU
1	G	795	MET
1	G	796	LEU
1	G	800	LEU
1	G	808	LYS
1	G	823	ILE
1	G	826	MET
1	G	830	HIS
1	G	861	GLN
1	G	869	ILE
1	G	871	TRP
1	G	900	GLU
1	G	901	MET
1	G	904	ASN
1	G	925	ASP
1	G	930	LEU
1	G	936	LEU
1	G	991	ASP
1	G	993	PRO
1	G	994	GLU
1	G	998	TYR

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Mol	Chain	Res	Type
1	G	1013	LEU
1	G	1024	PHE
1	G	1036	ARG
1	G	1040	GLU
1	G	1042	PHE
1	G	1064	ASN
1	G	1067	LEU
1	G	1071	PRO
1	G	1072	TYR
1	G	1080	THR
1	G	1081	LYS
1	G	1082	GLU
1	G	1088	ASP
1	G	1098	LEU
1	G	1107	GLU
1	G	1111	PHE
1	G	1114	TYR
1	G	1115	ASN
1	G	1116	PRO
1	G	1117	GLU
1	G	1131	LEU
1	G	1139	GLU
1	G	1150	ASP
1	G	1152	VAL
1	G	1157	ILE
1	G	1158	PRO
1	G	1159	GLU
1	G	1162	GLU
1	G	1168	LEU
1	G	1179	LEU
1	G	1182	ASP
1	G	1183	ARG
1	G	1185	VAL
1	G	1190	PRO
1	G	1193	TRP
1	G	1196	LYS
1	G	1207	GLN
1	G	1212	THR
1	G	1213	LEU
1	G	1218	SER
1	G	1221	GLU
1	G	1226	SER

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Mol	Chain	Res	Type
1	G	1243	VAL
1	G	1245	ASN
1	G	1257	LEU
1	G	1261	PHE
1	G	1269	PRO
1	G	1272	ASN
1	G	1273	ASP
1	G	1274	ILE
1	G	1275	LEU
1	G	1277	GLU
1	G	1280	ILE
1	G	1283	MET
1	G	1286	TRP
1	G	1289	MET
1	G	1291	LEU
1	G	1292	ILE
1	G	1297	PRO
1	G	1301	PRO
1	G	1310	GLU
1	G	1317	GLU
1	G	1320	LEU
1	G	1325	ARG
1	G	1329	VAL
1	G	1333	ASP
1	G	1345	ASN
1	G	1352	THR
1	G	1354	GLU
1	G	1356	PHE
1	G	1358	HIS
1	G	1367	ARG
1	G	1370	THR
1	G	1372	THR
1	G	1376	PHE
1	G	1378	GLU
1	G	1398	VAL
1	G	1412	ASP
1	G	1421	PRO
1	G	1431	GLU
1	G	1438	TYR
1	G	1441	PRO
1	G	1444	ASN
1	G	1445	MET

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Mol	Chain	Res	Type
1	G	1447	TYR
1	G	1451	GLN
1	G	1455	ARG
1	G	1462	TRP
1	G	1486	LEU
1	G	1496	GLU
1	G	1500	GLN
1	G	1506	GLN
1	G	1512	PHE
1	G	1513	TYR
1	G	1518	ARG
1	G	1519	ILE
1	G	1521	PRO
1	G	1532	THR
1	G	1536	LEU
1	G	1538	VAL
1	G	1549	ASN
1	G	1556	THR
1	G	1566	ARG
1	G	1571	PRO
1	G	1573	ILE
1	G	1581	THR
1	G	1583	HIS
1	G	1584	PRO
1	G	1585	LYS
1	G	1591	TRP
1	G	1597	LEU
1	G	1598	GLN
1	G	1600	LEU
1	G	1605	ILE
1	G	1606	PRO
1	G	1609	ARG
1	G	1615	ASP
1	G	1622	GLU
1	G	1625	LEU
1	G	1627	PRO
1	G	1630	THR
1	G	1631	LEU
1	G	1632	LYS
1	G	1634	ASP
1	G	1637	ARG
1	G	1641	ILE

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Mol	Chain	Res	Type
1	G	1655	VAL
1	G	1661	LEU
1	G	1669	ARG
1	G	1685	TYR
1	G	1697	LEU
1	G	1701	LYS
1	G	1706	TYR
1	G	1707	THR
1	G	1708	ASP
1	G	1732	THR
1	G	1733	PHE
1	G	1738	ILE
1	G	1741	LYS
2	H	28	PHE
2	H	29	ILE
2	H	37	PHE
2	H	38	ASN
2	H	41	LEU
2	H	64	PHE
2	H	72	VAL
2	H	82	GLN
2	H	85	ASN
2	H	87	CYS
2	H	88	LEU
2	H	95	TYR
2	H	96	LEU
2	H	97	GLU
2	H	99	ASN
2	H	101	ILE
2	H	102	HIS
2	H	109	LEU
2	H	112	ASN
2	H	138	ASP
2	H	146	PHE
2	H	180	TYR
2	H	181	HIS
2	H	199	ILE
2	H	221	ASN
2	H	224	ASN
2	H	245	GLN
2	H	259	THR
2	H	267	LEU

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Mol	Chain	Res	Type
2	H	285	GLU
2	H	293	PHE
2	H	317	THR
2	H	328	LEU
2	H	330	ASN
2	H	331	ASN
2	H	339	LEU
2	H	344	LEU
2	H	372	ASN
2	H	386	LEU
2	H	389	LEU
2	H	408	PRO
2	H	418	ASN
2	H	438	LEU
2	H	461	ASP
2	H	463	PHE
2	H	483	ILE
2	H	503	ASP
2	H	521	ASP
2	H	526	ARG
2	H	528	ILE
2	H	532	THR
2	H	533	LEU
2	H	537	PRO
2	H	543	PHE
2	H	1669	GLN
2	H	1672	GLN
2	H	1680	LEU
2	H	1681	TYR
2	H	1698	PHE
2	H	1701	THR
2	H	1704	PHE
2	H	1712	ASN
2	H	1718	THR
2	H	1721	PHE
2	H	1729	ILE
2	H	1737	ILE
2	H	1743	ASP
2	H	1752	PHE
2	H	1755	ILE
2	H	1762	TYR
2	H	1764	PHE

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Mol	Chain	Res	Type
2	H	1812	TYR
2	H	1825	GLU
2	H	1833	TYR
2	H	1834	ARG
2	H	1871	LEU
2	H	1873	TYR
2	H	1895	ASN
2	H	1899	VAL
2	H	1903	ASP
2	H	1907	LEU

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (179) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	758	ASN
1	A	792	HIS
1	A	829	ASN
1	A	830	HIS
1	A	861	GLN
1	A	904	ASN
1	A	927	ASN
1	A	931	GLN
1	A	1003	GLN
1	A	1063	HIS
1	A	1115	ASN
1	A	1123	GLN
1	A	1143	GLN
1	A	1188	GLN
1	A	1207	GLN
1	A	1239	HIS
1	A	1245	ASN
1	A	1288	ASN
1	A	1345	ASN
1	A	1351	ASN
1	A	1358	HIS
1	A	1385	GLN
1	A	1389	GLN
1	A	1444	ASN
1	A	1451	GLN
1	A	1494	HIS
1	A	1495	ASN
1	A	1505	GLN

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Mol	Chain	Res	Type
1	A	1510	ASN
1	A	1552	ASN
1	A	1570	ASN
1	A	1577	GLN
1	A	1594	ASN
2	B	34	GLN
2	B	38	ASN
2	B	85	ASN
2	B	93	ASN
2	B	99	ASN
2	B	125	ASN
2	B	221	ASN
2	B	224	ASN
2	B	245	GLN
2	B	273	HIS
2	B	275	GLN
2	B	316	ASN
2	B	331	ASN
2	B	354	ASN
2	B	365	GLN
2	B	376	ASN
2	B	390	ASN
2	B	418	ASN
2	B	430	HIS
2	B	440	ASN
2	B	1672	GLN
2	B	1674	GLN
2	B	1692	ASN
2	B	1775	GLN
2	B	1858	ASN
2	B	1892	ASN
2	B	1912	ASN
2	B	1939	HIS
1	D	758	ASN
1	D	792	HIS
1	D	829	ASN
1	D	830	HIS
1	D	861	GLN
1	D	904	ASN
1	D	927	ASN
1	D	931	GLN
1	D	1003	GLN

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Mol	Chain	Res	Type
1	D	1063	HIS
1	D	1115	ASN
1	D	1123	GLN
1	D	1143	GLN
1	D	1188	GLN
1	D	1207	GLN
1	D	1239	HIS
1	D	1245	ASN
1	D	1288	ASN
1	D	1345	ASN
1	D	1351	ASN
1	D	1358	HIS
1	D	1385	GLN
1	D	1389	GLN
1	D	1444	ASN
1	D	1451	GLN
1	D	1495	ASN
1	D	1505	GLN
1	D	1510	ASN
1	D	1552	ASN
1	D	1570	ASN
1	D	1577	GLN
1	D	1594	ASN
2	E	34	GLN
2	E	38	ASN
2	E	82	GLN
2	E	85	ASN
2	E	93	ASN
2	E	99	ASN
2	E	125	ASN
2	E	221	ASN
2	E	224	ASN
2	E	245	GLN
2	E	273	HIS
2	E	275	GLN
2	E	316	ASN
2	E	331	ASN
2	E	354	ASN
2	E	365	GLN
2	E	376	ASN
2	E	390	ASN
2	E	418	ASN

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Mol	Chain	Res	Type
2	E	440	ASN
2	E	1672	GLN
2	E	1674	GLN
2	E	1692	ASN
2	E	1775	GLN
2	E	1858	ASN
2	E	1892	ASN
2	E	1912	ASN
2	E	1939	HIS
1	G	758	ASN
1	G	792	HIS
1	G	829	ASN
1	G	830	HIS
1	G	861	GLN
1	G	904	ASN
1	G	927	ASN
1	G	931	GLN
1	G	1003	GLN
1	G	1063	HIS
1	G	1115	ASN
1	G	1123	GLN
1	G	1143	GLN
1	G	1188	GLN
1	G	1207	GLN
1	G	1239	HIS
1	G	1245	ASN
1	G	1288	ASN
1	G	1345	ASN
1	G	1351	ASN
1	G	1358	HIS
1	G	1385	GLN
1	G	1389	GLN
1	G	1444	ASN
1	G	1451	GLN
1	G	1495	ASN
1	G	1505	GLN
1	G	1510	ASN
1	G	1552	ASN
1	G	1570	ASN
1	G	1577	GLN
1	G	1594	ASN
2	H	34	GLN

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Mol	Chain	Res	Type
2	H	38	ASN
2	H	85	ASN
2	H	93	ASN
2	H	99	ASN
2	H	125	ASN
2	H	221	ASN
2	H	224	ASN
2	H	245	GLN
2	H	273	HIS
2	H	275	GLN
2	H	316	ASN
2	H	331	ASN
2	H	354	ASN
2	H	365	GLN
2	H	376	ASN
2	H	390	ASN
2	H	418	ASN
2	H	440	ASN
2	H	1672	GLN
2	H	1674	GLN
2	H	1692	ASN
2	H	1775	GLN
2	H	1858	ASN
2	H	1892	ASN
2	H	1912	ASN

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

5.4 Non-standard residues in protein, DNA, RNA chains ⓘ

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

5.5 Carbohydrates ⓘ

There are no carbohydrates in this entry.

5.6 Ligand geometry [i](#)

There are no ligands in this entry.

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

The following chains have linkage breaks:

Mol	Chain	Number of breaks
1	G	2
1	A	2
1	D	2

All chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	D	506:UNK	C	516:UNK	N	28.27
1	A	506:UNK	C	516:UNK	N	28.26
1	G	506:UNK	C	516:UNK	N	28.26
1	D	305:UNK	C	360:UNK	N	17.84
1	A	305:UNK	C	360:UNK	N	17.83
1	G	305:UNK	C	360:UNK	N	17.83

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	1069/1688 (63%)	-0.35	0 100 100	48, 122, 192, 203	0
1	D	1069/1688 (63%)	-0.32	2 (0%) 95 93	53, 123, 194, 203	0
1	G	1069/1688 (63%)	-0.37	1 (0%) 95 94	43, 112, 190, 203	0
2	B	818/2006 (40%)	-0.12	25 (3%) 49 38	107, 177, 202, 203	0
2	E	818/2006 (40%)	-0.10	14 (1%) 70 60	111, 190, 202, 203	0
2	H	818/2006 (40%)	-0.15	17 (2%) 63 54	94, 183, 202, 203	0
3	C	0/65	-	-	-	-
3	F	0/65	-	-	-	-
3	I	0/65	-	-	-	-
All	All	5661/11277 (50%)	-0.25	59 (1%) 82 74	43, 151, 201, 203	0

All (59) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
2	B	1895	ASN	9.5
2	H	451	ASN	4.7
2	H	51	ASP	4.3
2	E	1928	GLN	4.2
2	E	425	SER	4.1
2	B	1880	LYS	4.0
2	E	451	ASN	3.8
2	B	269	GLY	3.8
2	E	1880	LYS	3.7
2	E	269	GLY	3.6
2	B	1882	THR	3.5
2	H	1895	ASN	3.3
2	E	270	ALA	3.2
2	B	1879	GLY	3.2
2	E	1744	GLY	3.1
2	H	162	GLY	3.0

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Mol	Chain	Res	Type	RSRZ
2	H	73	GLU	3.0
2	B	1881	ARG	2.9
2	H	161	GLY	2.9
2	B	1821	VAL	2.8
2	B	1896	GLN	2.8
1	D	972	SER	2.6
2	B	418	ASN	2.6
2	B	1704	PHE	2.6
2	E	1841	ALA	2.6
2	H	282	ALA	2.5
2	B	1676	MET	2.5
2	H	1880	LYS	2.5
2	H	1853	GLY	2.4
2	B	1844	ARG	2.4
2	B	1852	TYR	2.4
2	H	532	THR	2.4
2	B	1871	LEU	2.3
2	B	1874	VAL	2.3
2	H	71	LEU	2.3
1	D	1064	ASN	2.3
2	B	1898	TYR	2.3
2	H	156	LEU	2.3
2	B	1822	MET	2.3
2	E	183	LEU	2.3
2	E	1929	LYS	2.3
2	E	1895	ASN	2.3
2	H	50	ALA	2.2
2	B	1897	GLN	2.2
2	B	1878	VAL	2.2
1	G	1088	ASP	2.2
2	E	65	LEU	2.2
2	H	72	VAL	2.2
2	B	1669	GLN	2.1
2	B	1672	GLN	2.1
2	H	1851	ASN	2.1
2	B	459	VAL	2.1
2	E	61	VAL	2.1
2	B	1853	GLY	2.1
2	H	415	LYS	2.1
2	H	205	ALA	2.1
2	E	95	TYR	2.1
2	B	332	GLU	2.0

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Mol	Chain	Res	Type	RSRZ
2	B	1894	GLU	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](#)

There are no ligands in this entry.

6.5 Other polymers [i](#)

There are no such residues in this entry.