



# Full wwPDB X-ray Structure Validation Report ⓘ

May 18, 2020 – 11:49 am BST

PDB ID : 4O9Y  
Title : Crystal Structure of TcdA1  
Authors : Meusch, D.; Gatsogiannis, C.; Efremov, R.G.; Lang, A.E.; Hofnagel, O.; Vetter, I.R.; Aktories, K.; Raunser, S.  
Deposited on : 2014-01-03  
Resolution : 3.50 Å(reported)

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

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

A user guide is available at

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

with specific help available everywhere you see the ⓘ symbol.

---

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

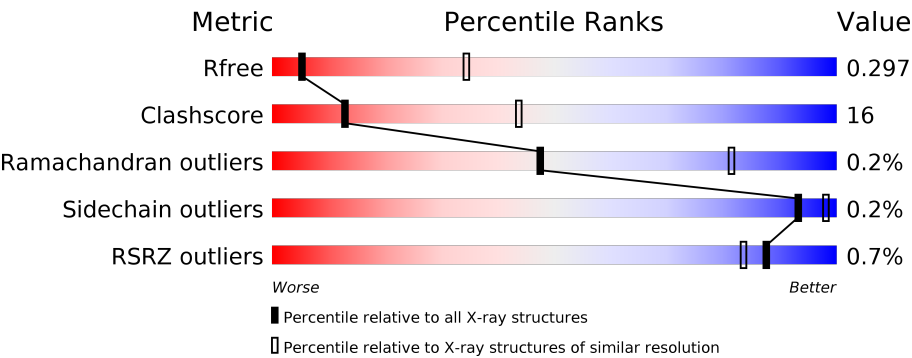
MolProbity	:	4.02b-467
Xtriage (Phenix)	:	1.13
EDS	:	2.11
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac	:	5.8.0158
CCP4	:	7.0.044 (Gargrove)
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation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

# 1 Overall quality at a glance i

The following experimental techniques were used to determine the structure:  
*X-RAY DIFFRACTION*

The reported resolution of this entry is 3.50 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	1659 (3.60-3.40)
Clashscore	141614	1036 (3.58-3.42)
Ramachandran outliers	138981	1005 (3.58-3.42)
Sidechain outliers	138945	1006 (3.58-3.42)
RSRZ outliers	127900	1559 (3.60-3.40)

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

Mol	Chain	Length	Quality of chain
1	A	2516	<div><div></div><div></div><div></div><div></div><div></div></div> <div>63%35%.</div>
1	B	2516	<div><div></div><div></div><div></div><div></div><div></div></div> <div>64%35%.</div>
1	C	2516	<div>%<div></div><div></div><div></div><div></div><div></div></div> <div>64%35%.</div>
1	D	2516	<div><div></div><div></div><div></div><div></div><div></div></div> <div>65%34%.</div>
1	E	2516	<div>%<div></div><div></div><div></div><div></div><div></div></div> <div>64%34%.</div>
1	F	2516	<div>%<div></div><div></div><div></div><div></div><div></div></div> <div>64%35%.</div>

Continued on next page...

Continued from previous page...

Mol	Chain	Length	Quality of chain
1	G	2516	<div><div>%</div><div><div></div></div><div>65%33%</div><div></div></div>
1	H	2516	<div><div>%</div><div><div></div></div><div>66%33%</div><div></div></div>
1	I	2516	<div><div>%</div><div><div></div></div><div>64%35%</div><div></div></div>
1	J	2516	<div><div>%</div><div><div></div></div><div>63%35%</div><div></div></div>

## 2 Entry composition

There is only 1 type of molecule in this entry. The entry contains 197663 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.

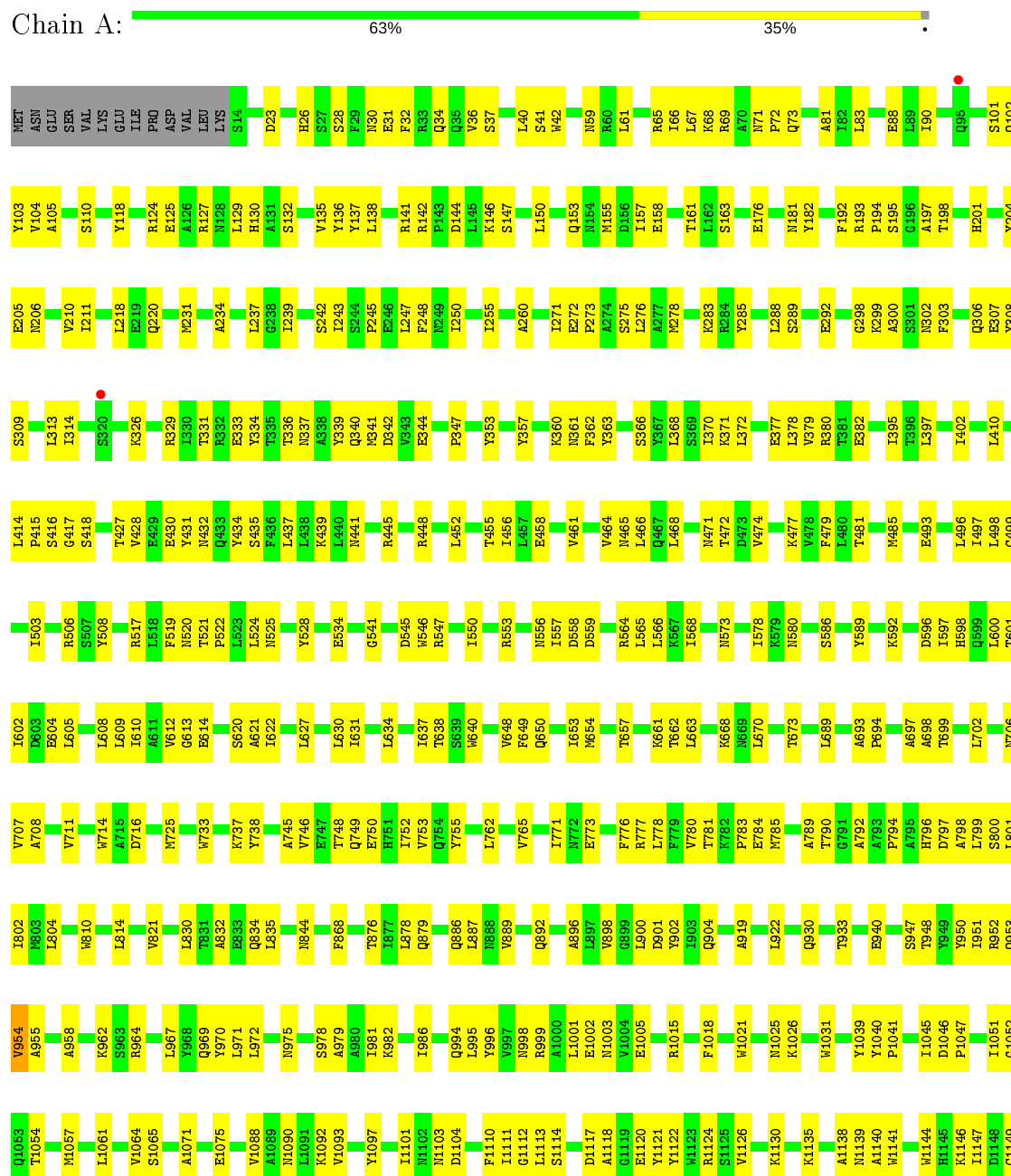
- Molecule 1 is a protein called TcdA1.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	2490	Total 19768	C 12508	N 3364	O 3833	S 63	0	0	0
1	B	2490	Total 19768	C 12508	N 3364	O 3833	S 63	0	0	0
1	C	2490	Total 19768	C 12508	N 3364	O 3833	S 63	0	0	0
1	D	2490	Total 19768	C 12508	N 3364	O 3833	S 63	0	0	0
1	E	2490	Total 19768	C 12508	N 3364	O 3833	S 63	0	0	0
1	F	2490	Total 19768	C 12508	N 3364	O 3833	S 63	0	0	0
1	G	2488	Total 19751	C 12499	N 3359	O 3830	S 63	0	0	0
1	H	2490	Total 19768	C 12508	N 3364	O 3833	S 63	0	0	0
1	I	2490	Total 19768	C 12508	N 3364	O 3833	S 63	0	0	0
1	J	2490	Total 19768	C 12508	N 3364	O 3833	S 63	0	0	0

### 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: TcdA1



- Molecule 1: TcdA1

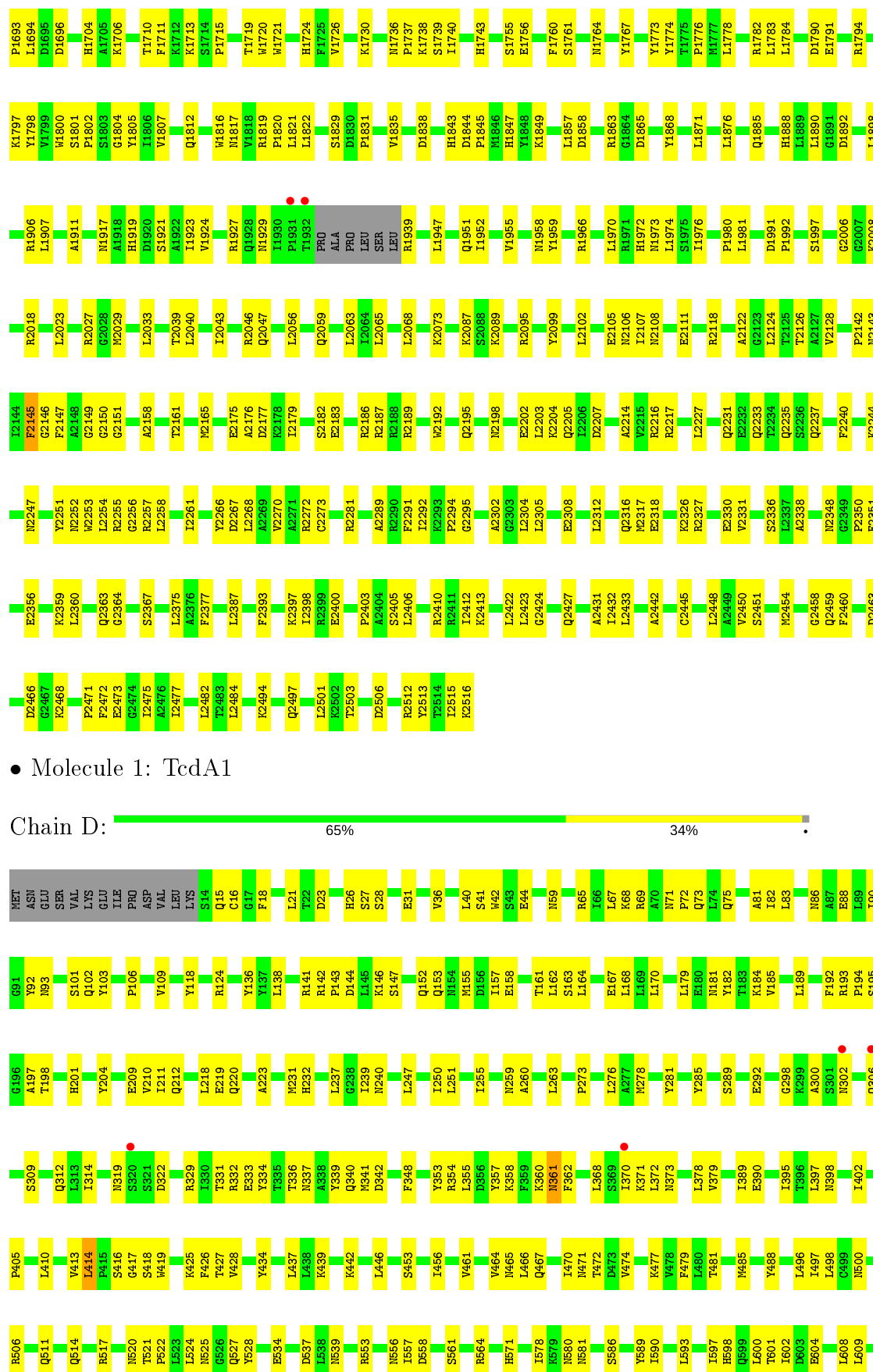
Satisfaction Level	Percentage
Very satisfied	64%
Satisfied	35%







T1603	V1502	Y1410	D1321	C1236	I1147	V1034	Y912	V811	V707	G599	Y488	I402	Q312
R1604	K1503	S1411	Y1322	A1237	I1151	Y1039	A913	N812	A708	L600	L496	I402	L313
T1607	A1504	G1412		G1238	N1152	Y1040	Q914	A813	A711	T601	L497	F406	I314
A1610	G1505	T1414	Y1327	L1246	Y1153	P1041	I322	L814	L712	I602	L498		T315
Y1614	S1415	S1415	Y1328	L1247	Y1154	R1050	N927	K817	L713	D603	L499	L410	V318
A1615	K1515	L1417	Y1333	M1246	K1155	R1050			W714	L605	C499		
R1616		N1418		F1249	R1159	M1057	Q930	W821	A715	D606	I503	V413	D322
A1617	Q1520	Q1419	D1336	Y1250	P1160	L1061	T933	L830	D716	L607	R506	L414	G323
T1618	S1522	R1421	P1338	Y1250	Y1161	L1061	L934	T831	Q719		S507	P415	T324
L1625	E1527	L1422	S1347	Q1253	Y1162	V1064	L934	L832	W720	V612	Y508	G417	V325
S1626	Y1530	L1423		T1255	Y1163	S1065	E940	E833	G721	G613		S418	R329
M1627	F1424	H1425		D1257	S1165	Q1066	S941	E833	A724	E614	T521	T427	I350
E1628	Y1530			L1256	R1166	Q1066	S941	Q834	A724	G615	P522		T331
A1629	A1534	T1429		S1258	Y1167	L1069	T947	L835	A727	T617	L523	Y434	E333
T1629	I1352			Y1259	Y1168	F1085	S947	A838	L734	N618	L524		Y334
L1630	L1535			K1260	L1169	E1086	V954	N839		N525	N525	L437	T335
Q1630	E1536	I1438		K1261	L1170	E1086				S620	Y528	L438	T336
Q1633	I1537			A1262	M1171	Q1087		A843	A745	A621		K439	N337
Q1634	G1541	A1441		S1263	Y1172	V1088	A958	N844		T622	E534	L440	A338
P1635	L1542	R1443		M1264	E1173	A1089			Q749	S623		N441	Y339
Q1636	G1541	S1444		Q1265	E1177	M1090	K962	L847	E750				Q340
L1637	L1542	L1445		G1266	T1178	K1091	S963			Q626	L538	R445	N341
G1638	I1545	L1445		L1267	T1178	K1092	R964	S850	W753	L627		L446	D342
K1639	N1546	N1447		Y1268	K1179	V1093	D965	Q852	Q754	T631	G541		V343
G1640	N1546				Q1180	Y1097	L971	A853			K548	T450	E344
F1641	A1549			M1273	THR	Y1097		Q854	Q758	L634		E451	P347
Y1642	I1452	I1452		A1274	GLY	Y1098	N975		L759		L551	L452	F348
A1643	G1453	G1453		S1275	ASN	Y1098	Q976				K552	S453	
	D1454	D1454		M1278	SER	I1101	Q976				R553	P454	Y353
I1647	D1455	D1455		M1278	LTS	N1102	S977		L762	T638		T455	R354
	Y1456	Y1456		P1279	ASP	M1103	S978		E763			L456	
Y1650	D1459	D1459		P1280	GLY	D1104	A979		W764	V648	N556	L457	Y357
N1651	Y1378	Y1378			Y1188	Q1105		N866			I557	E458	
L1652	G1379	G1379		S1283		T983	T984	A867	I771	F652	D558	V461	K360
S1653	K1380	K1380		N1284	R1195	F1110	T984	F868		L653	D559		
T1654	L1381	L1381		Y1285	Y1196	I1111	R985		L778	M654	R564	V464	S366
H1655	G1382	G1382		Y1286		G1112	I986	S873		T655	L565	M465	
K1656	D1383	D1383		D1287	H1202	L1113	A987	I874	T781	K661	L566	L466	I370
D1657	K1384	K1384		D1288		S1114	E988		E784	T662	K567	Q467	K371
L1658	F1385	F1385		N1289	I1213			I877		L663	I568	L468	L372
R1659	I1386	I1386		S1289		D1117	Q994	L878		T684		D469	N373
W1660				Y1291	V1217	A1118	L995	Q879	A789		H571	I470	D374
F1661	S1390	S1390		Q1292	K1220	E1119	Y996	Q880	T790			N471	K375
	L1391	L1391		Q1293	I1221	Y1121	E1005	Q886	F794	T687	I578	T472	R376
K1666	S1398	S1398		D1294	S1222	Y1122			H796	K668	K579	D473	E377
H1667	N1399	N1399		D1296	E1223	Y1122	F1018	A896		L670	N580	V474	L378
V1668	N1400	N1400		N1297	L1224				D797				V379
V1669	K1401	K1401		N1298	K1225	Y1126	W1021	L900	A798	L689	S586	K477	R380
H1674	L1402	L1402		N1299	L1226	K1130	D1022	D901				V478	T381
Q1680	M1403	M1403		R1300	E1227	A1138	K1023	Y902	I802	A693	Y589	P479	E382
	F1404	F1404		R1301	K1228	N1139	N1024	I903	R803	P694	I590	L480	
N1685	Y1405	Y1405		R1305	H1229	A1140	K1025	Q904	L804			T481	I395
W1598	P1406	P1406		Y1306	R1230	K1141	K1026	S905		A697	L593		I396
Q1599	Y1408	Y1408		E1311	G1233	K1146	W1031	P910	A808	A698	I597	Y484	L397
F1691	Q1409	Q1409						T911	W810	T699	H598	M485	N398
L1692													T399



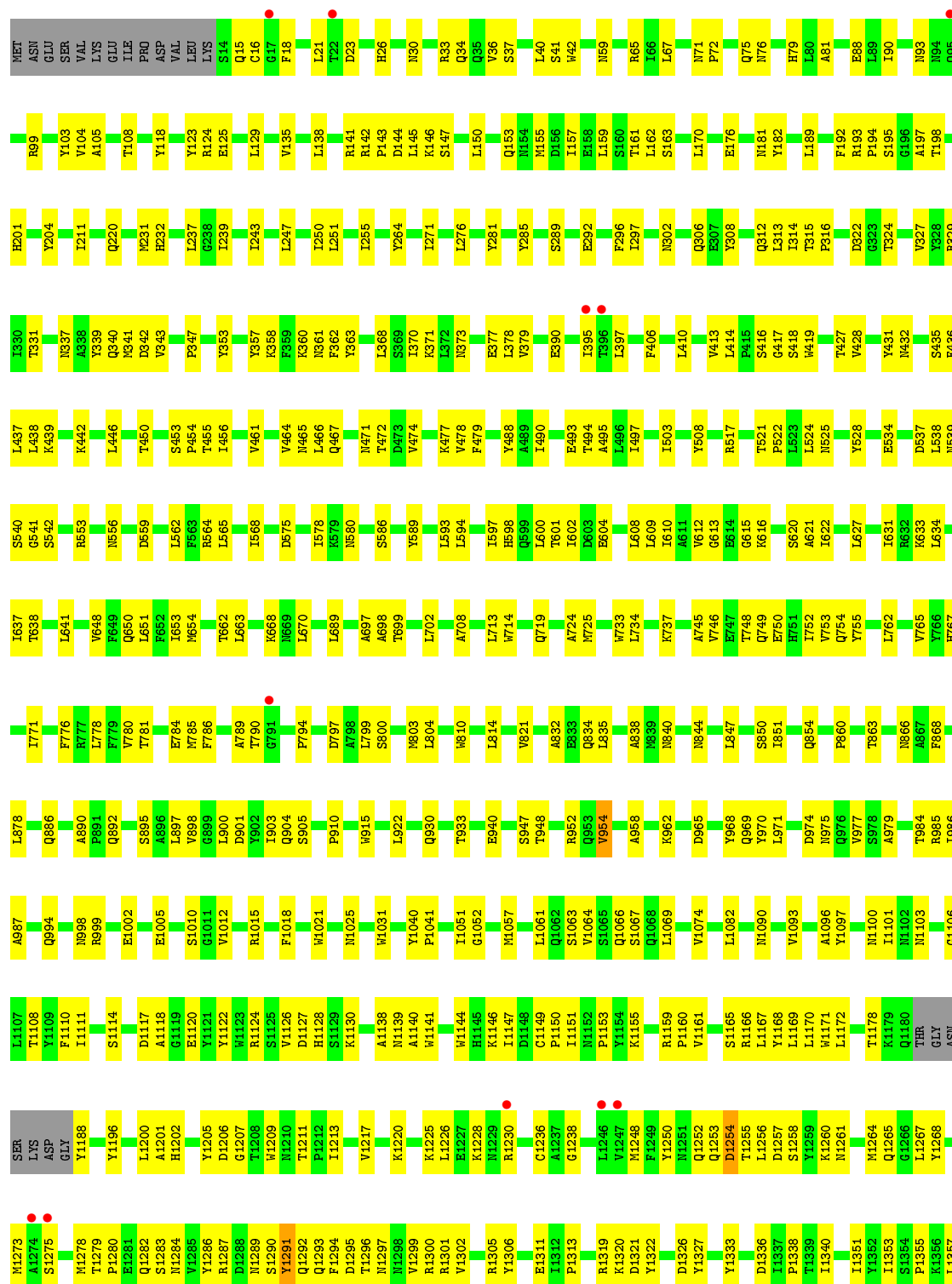
H1972	H1943	T1742	Y1650	T1556	I1452	I1359	I1269	THR	D104	Q976	Q854	W733	V612
L1976	D1844	L1750	M1651	A1557	Y1456	I1360	M1273	GLY	T1108	V977	P860	L734	G613
L1981	M1846	M1751	S1652	F1558	D1459	K1368	A1274	ASN	T1109	S978	P861	Y738	G615
Y1986	H1847	L1753	H1654	E1559	D1459	Q1371	S1275	LVS	F1110	K982	T863	T739	K616
A1987	T1852	L1753	H1655	D1561	N1462	C1372	M1278	ASP	I1111	R985	W637	P740	T617
A1994	Y1868	S1755	G1656	G1652	K1463		T1279	GLY	G1112	R986	M866	A745	M618
L1995	R1659	S1756	D1657	R1563	K1463	M1375	E1281		L1113	Y994	A867	T748	L619
L1996	R1659	L1757	R1659	L1565	P1464	Y1378	Q1282	GLY	S1114	Q994	F868	Q749	S620
Q2004	L1871	D1759	W1660	S1569	L1467	Y1378	E1281	Y1188		N998		L748	A621
L2009	L1876	F1760	K1666	I1572	K1468	G1379	S1283	E1191	D1117	N998	L837	W753	D624
L2018	Q1885	A1763	H1667	V1573	Q1469	K1380	S1283		A1113		M838	Q754	L630
R2018	H1888	T1775	V1668	V1574	G1478	L1381	Y1286		E1120	E1002	W839	Y755	L634
R2027	L1890	M1777	V1669	T1585	T1479	D1382	R1287		Y1121	E1005	Q892	V765	
G2028	Y1895	L1778	Q1680	T1589	A1480	I1386	Y1291		T1208	Y1012	A896	I771	I637
M2029	L1898	V1779	D1683	E1590	T1493	L1391	Q1292		T1211	V1012	I897	W772	T638
L2033	L1898	E1786	T1684	Q1594	S1494	N1394	Q1293		P1212	R1015	W898	E773	S639
T2038	T1901	M1788	L1690	Y1595	A1496	M1396	D1295		I1221	F1018	L900	R777	W640
Q2040	R1906	R1794	F1691	Q1597	V1498	N1397	F1294		E1223	R1027	I903	L778	L641
N2042	L1907	W1795	I1692	M1596	Q1499	S1398	Q1294		L1224	R1027	Q904	T781	V648
I2043	D1908	L1796	L1694	T1603	Y1502	S1399	F1294		K1225	T1030	E908	K782	
A1911	D1695	K1797	K1695	V1502	K1503	N1400	D1296		L1226	T1030	Y1024	P794	M654
R2046	D1696	Y1798	L1696	L1605	A1504	K1401	T1296		L1227	K1026	L922	W785	Y659
Q2047	H1704	Y1799	H1704	M1606	G1505	L1402	N1297		R1230	R1027	N927	A789	T662
L2055	R1927	W1800	A1705	A1610	D1514	P1406	E1311		C1236	T1030	Q930	T790	L663
Q2059	N1929	K1712	K1706	R1611	K1515	Y1408	I1312		A1237	Y1031	K1146	K668	
L2063	I1930	Y1805	T1710	V1614	P1523	Q1409	D1321		I1147	Y1040	T933	A795	M669
L2068	P1931	T1806	F1711	A1815	S1524	S1411	Y1322		I1151	P1041	L934	W796	L670
K2073	T1932	V1807	K1712	R1616	E1527	G1412	Y1328		M1152	R1050	S947	I802	D682
E2077	PRU	Q1810	K1713	D1622	Y1530	T1414	L1329		P1153	L1060	T948	M803	K685
K2087	ALA	S1714	S1714	E1628	Y1531	S1415	Y1333		T1158	L1069	Y950	L804	
R2095	LEU	P1715	P1715	F1532	Q1531	G1416	N1261		R1159	N1070	R951	L814	L689
S2098	SER	S1716	S1716	M1533	F1532	L1417	D1336		P1160	N1070	R952	W821	A698
Y2099	LEU	D1717	W1721	Q1630	M1533	M1416	I1337		Y1163	A1071	Q953	L822	T699
G2100	R1939	K1717	W1721	Q1633	A1534	Q1419	P1338		K1164	V1074	A955	L830	L702
K2101	Q1951	S1726	V1726	E1634	L1535	G1420			S1165	E1075	K952	T831	
L2102	I1952	P1820	W1730	P1635	I1537	L1422	A1345		R1166	L1082	K953	A832	N706
Y2103	N1953	L1821	G1731	Q1836	L1542	L1423	D1348		Y1167	T1083	R964	E833	W707
N2106	Y1959	I1732	I1732	L1637	N1543	R1426	K1349		L1168	T1083	D965	Q834	A708
I2107	W1960	K1639	V1733	G1638	F1544	D1427	I1351		L1170	N1090	D966	W709	H709
R1966	Q1961	G1640	T1428	G1640	Y1352	T1428	Y1352		W1171	L1091	L967	L835	
L2107	T1962	F1641	T1429	S1550	A1549	T1429	I1353		L1172	K1092	Y968	N840	L712
W2108	R1966	Y1642	S1550	Y1642	S1551	Y1438	S1355		I1177	Y1093	Q969	W844	L713
	L1970	I1647	I1551	D1562	D1562	I1438	P1356		T1178	Y1097	Y970	N844	W714
	R1971	P1649	D1562	F1555	F1555	A1441	L1357		K1179		L971	S850	M725
							R1358		Q1180	I1101	N975		







• Molecule 1: TcdA1



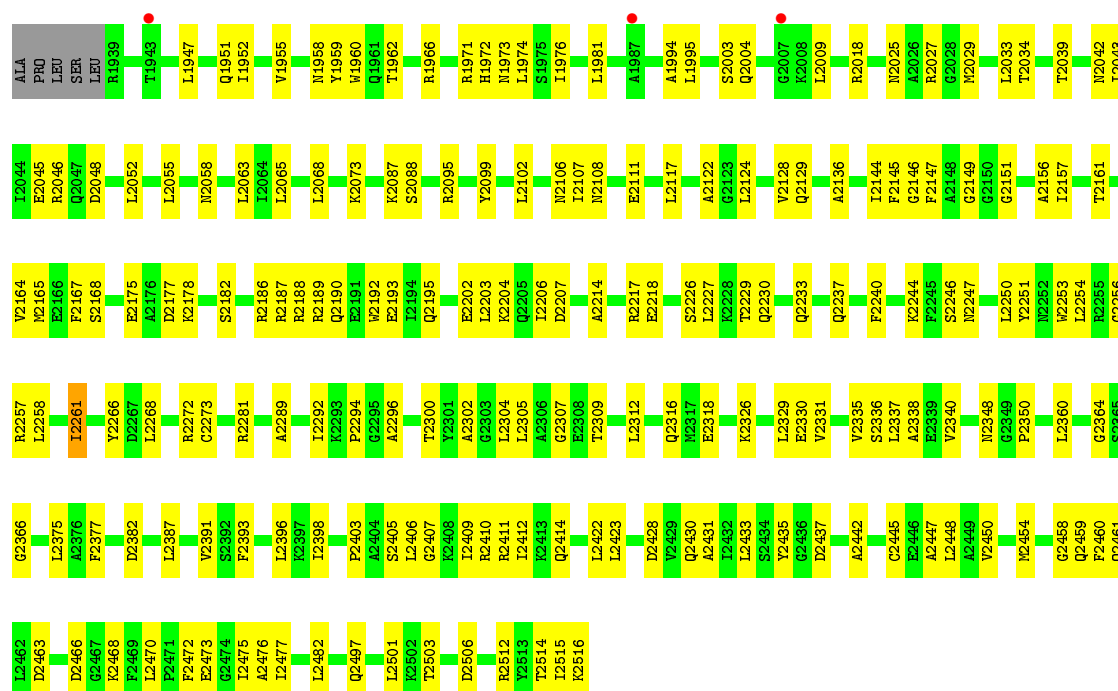
R1358	R1359	I1360	Q1367	K1368	L1374	M1375	K1380	L1381	G1382	D1383	K1384	F1385	I1386	L1391	S1398	S1399	M1400	K1401	L1402	P1406	V1407	Y1408	Q1409	P1495	S1411	G1412	N1413	T1414	S1415	G1416	L1417	R1418	Q1419	H1425	R1426	D1427	T1428	T1429	Y1430	K1433	V1434	E1435	I1438	A1441	R1442	R1443	N1447																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
I1452	G1453	D1454	D1459	K1462	K1463	P1464	D1465	L1467	Y1470	I1471	F1472	F1473	T1474	D1475	T1479	A1480	T1481	D1482	V1483	V1487	I1493	S1494	P1495	A1496	K1497	V1498	I1499	I1500	I1501	V1502	K1503	A1504	G1505	F1511	D1514	K1515	D1516	V1517	S1518	Q1520	S1524	E1527	Y1530	Q1531	F1532	N1533																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
I1537	L1542	F1555	T1556	A1557	F1558	A1559	K1564	L1565	S1569	H1572	P1573	T1575	T1585	L1586	H1587	Q1594	Q1597	M1598	Q1599	R1602	T1603	R1604	T1607	A1610	R1611	V1614	L1625	M1627	Q1630	Q1633	E1634	P1635	Q1636	L1637	G1638	K1639	G1640	F1641	Y1642	A1643	V1646	I1647																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
P1648	P1649	N1651	S1653	D1657	E1658	W1660	F1661	K1662	K1666	H1674	D1683	T1684	N1685	I1686	L1690	F1691	I1692	P1693	D1695	L1696	L1699	N1700	H1704	A1705	K1706	Y1707	Y1708	M1709	T1710	K1712	K1713	S1714	P1715	S1716	D1717	T1719	W1720	W1721	V1726	R1727	K1730	G1731	I1732	V1733																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
N1736	P1737	K1738	S1739	L1740	L1741	T1742	H1743	E1745	N1752	S1755	E1756	F1760	S1761	M1764	E1770	Y1773	Y1774	T1775	P1776	L1777	L1778	V1779	L1783	L1784	H1785	E1786	Q1787	N1788	E1791	R1794	W1795	L1796	K1797	Y1798	W1800	S1801	P1802	S1803	G1804	Y1805	L1806	V1807	Q1810	I1811	H1813																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
Y1814	Q1815	N1816	N1817	R1818	R1819	P1820	L1821	L1822	E1823	S1829	D1844	P1845	M1846	H1847	T1856	R1863	G1864	D1865	Y1868	L1871	L1876	W1882	Q1885	A1886	L1887	H1888	L1889	L1890	G1891	D1892	L1896	P1905	R1906	L1907	D1908	A1911	M1917	A1918	H1919	I1923	R1927	Q1928	N1929	I1930																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
P1931	T1932	ALA	PRO	LEU	SER	LEU	R1939	M1942	L1947	M1953	Y1959	Q1961	T1962	L1963	R1966	H1972	N1973	L1974	S1975	I1976	L1981	Y1986	D1991	P1992	K1993	A1994	A1998	A1999	V2000	G2007	K2008	S2012	L2016	V2017	R2018	F2019	G2146	F2147	R2027	G2028	N2029	L2033	T2039																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
L2040	Q2041	N2042	I2043	R2046	I2064	L2065	L2068	D2072	K2073	T2075	E2081	V2084	K2087	S2088	K2089	R2095	Y2099	L2102	N2106	I2107	E2111	L2117	R2113	A2122	T2125	T2126	A2127	V2128	A2136	N2143	I2144	F2145	G2146	F2147	A2148	G2149	G2150	G2151	A2156	I2157																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
T2161	R2165	E2166	F2167	E2175	A2176	R2187	R2188	R2189	W2192	Q2195	N2198	E2202	L2203	K2204	D2207	L2210	A2214	R2217	A2218	A2220	V2221	Q2216	M2217	Q2223	K2224	T2225	S2226	L2227	T2228	T2229	Q2230	Q2231	E2232	Q2233	T2234	Q2235	L2241	K2244	N2247	Q2248	A2249	L2250	T2251	N2252																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
G2256	R2257	L2258	L2261	Y2266	D2267	L2268	A2269	R2272	C2273	L2274	R2280	R2281	N2285	A2289	R2290	F2291	I2292	G2295	A2302	G2303	L2304	L2305	L2312	Q2316	M2317	E2318	K2326	L2329	E2330	V2331	A2338	Y2341	N2348	G2349	P2350	F2351	S2352	L2353	K2359	L2360	Y2361	F2362																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
Q2363	G2364	S2367	A2368	G2369	L2375	A2376	F2377	D2382	L2387	F2393	Y2402	P2403	A2404	L2406	L2409	R2410	K2413	P2420	A2421	L2422	L2423	A2431	L2432	L2433	S2434	Y2435	A2442	C2445	L2448	A2449	V2450	G2458	Q2459	D2463	D2466	G2467	K2468	F2469	L2470	T2471	F2472																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
E2473	T2477	G2480	T2481	L2482	T2483	L2484	S2485	F2486	P2487	W2491	K2494	Q2497	K2500	L2501	L2504	N2505	D2506	R2512	T2515	V2516	L2517	S2518	L2519	L2520	L2521	L2522	L2523	L2524	L2525	L2526	L2527	L2528	L2529	L2530	L2531	L2532	L2533	L2534	L2535	L2536	L2537	L2538	L2539	L2540	L2541	L2542	L2543	L2544	L2545	L2546	L2547	L2548	L2549	L2550	L2551	L2552	L2553	L2554	L2555	L2556	L2557	L2558	L2559	L2560	L2561	L2562	L2563	L2564	L2565	L2566	L2567	L2568	L2569	L2570	L2571	L2572	L2573	L2574	L2575	L2576	L2577	L2578	L2579	L2580	L2581	L2582	L2583	L2584	L2585	L2586	L2587	L2588	L2589	L2590	L2591	L2592	L2593	L2594	L2595	L2596	L2597	L2598	L2599	L2600	L2601	L2602	L2603	L2604	L2605	L2606	L2607	L2608	L2609	L2610	L2611	L2612	L2613	L2614	L2615	L2616	L2617	L2618	L2619	L2620	L2621	L2622	L2623	L2624	L2625	L2626	L2627	L2628	L2629	L2630	L2631	L2632	L2633	L2634	L2635	L2636	L2637	L2638	L2639	L2640	L2641	L2642	L2643	L2644	L2645	L2646	L2647	L2648	L2649	L2650	L2651	L2652	L2653	L2654	L2655	L2656	L2657	L2658	L2659	L2660	L2661	L2662	L2663	L2664	L2665	L2666	L2667	L2668	L2669	L2670	L2671	L2672	L2673	L2674	L2675	L2676	L2677	L2678	L2679	L2680	L2681	L2682	L2683	L2684	L2685	L2686	L2687	L2688	L2689	L2690	L2691	L2692	L2693	L2694	L2695	L2696	L2697	L2698	L2699	L2700	L2701	L2702	L2703	L2704	L2705	L2706	L2707	L2708	L2709	L2710	L2711	L2712	L2713	L2714	L2715	L2716	L2717	L2718	L2719	L2720	L2721	L2722	L2723	L2724	L2725	L2726	L2727	L2728	L2729	L2730	L2731	L2732	L2733	L2734	L2735	L2736	L2737	L2738	L2739	L2740	L2741	L2742	L2743	L2744	L2745	L2746	L2747	L2748	L2749	L2750	L2751	L2752	L2753	L2754	L2755	L2756	L2757	L2758	L2759	L2760	L2761	L2762	L2763	L2764	L2765	L2766	L2767	L2768	L2769	L2770	L2771	L2772	L2773	L2774	L2775	L2776	L2777	L2778	L2779	L2780	L2781	L2782	L2783	L2784	L2785	L2786	L2787	L2788	L2789	L2790	L2791	L2792	L2793	L2794	L2795	L2796	L2797	L2798	L2799	L2800	L2801	L2802	L2803	L2804	L2805	L2806	L2807	L2808	L2809	L2810	L2811	L2812	L2813	L2814	L2815	L2816	L2817	L2818	L2819	L2820	L2821	L2822	L2823	L2824	L2825	L2826	L2827	L2828	L2829	L2830	L2831	L2832	L2833	L2834	L2835	L2836	L2837	L2838	L2839	L2840	L2841	L2842	L2843	L2844	L2845	L2846	L2847	L2848	L2849	L2850	L2851	L2852	L2853	L2854	L2855	L2856	L2857	L2858	L2859	L2860	L2861	L2862	L2863	L2864	L2865	L2866	L2867	L2868	L2869	L2870	L2871	L2872	L2873	L2874	L2875	L2876	L2877	L2878	L2879	L2880	L2881	L2882	L2883	L2884	L2885	L2886	L2887	L2888	L2889	L2890	L2891	L2892	L2893	L2894	L2895	L2896	L2897	L2898	L2899	L2900	L2901	L2902	L2903	L2904	L2905	L2906	L2907	L2908	L2909	L2910	L2911	L2912	L2913	L2914	L2915	L2916	L2917	L2918	L2919	L2920	L2921	L2922	L2923	L2924	L2925	L2926	L2927	L2928	L2929	L2930	L2931	L2932	L2933	L2934	L2935	L2936	L2937	L2938	L2939	L2940	L2941	L2942	L2943	L2944	L2945	L2946	L2947	L2948	L2949	L2950	L2951	L2952	L2953	L2954	L2955	L2956	L2957	L2958	L2959	L2960	L2961	L2962	L2963	L2964	L2965	L2966	L2967	L2968	L2969	L2970	L2971	L2972	L2973	L2974	L2975	L2976	L2977	L2978	L2979	L2980	L2981	L2982	L2983	L2984	L2985	L2986	L2987	L2988	L2989	L2990	L2991	L2992	L2993	L2994	L2995	L2996	L2997	L2998	L2999	L3000	L3001	L3002	L3003	L3004	L3005	L3006	L3007	L3008	L3009	L3010	L3011	L3012	L3013	L3014	L3015	L3016	L3017	L3018	L3019	L3020	L3021	L3022	L3023	L3024	L3025	L3026	L3027	L3028	L3029	L3030	L3031	L3032	L3033	L3034	L3035	L3036	L3037	L3038	L3039	L3040	L3041	L3042	L3043	L3044	L3045	L3046	L3047	L3048	L3049	L3050	L3051	L3052	L3053	L3054	L3055	L3056	L3057	L3058	L3059	L3060	L3061	L3062	L3063	L3064	L3065	L3066	L3067	L3068	L3069	L3070	L3071	L3072	L3073	L3074	L3075	L3076	L3077	L3078	L3079	L3080	L3081	L3082	L3083	L3084	L3085	L3086	L3087	L3088	L3089	L3090	L3091	L3092	L3093	L3094	L3095	L3096	L3097	L3098	L3099	L3100	L3101	L3102	L3103	L3104	L3105	L3106	L3107	L3108	L3109	L3110	L3111	L3112	L3113	L3114	L3115	L3116	L3117	L3118	L3119	L3120	L3121	L3122	L3123	L3124	L3125	L3126	L3127	L3128	L3129	L3130	L3131	L3132	L3133	L3134	L3135	L3136	L3137	L3138	L3139	L3140	L3141	L3142	L3143	L3144	L3145	L3146	L3147	L3148	L3149	L3150	L3151	L3152	L3153	L3154	L3155	L3156	L3157	L3158	L3159	L3160	L3161	L3162	L3163	L3164	L3165	L3166	L3167	L3168	L3169	L3170	L3171	L3172	L3173	L3174	L3175	L3176	L3177	L3178	L3179	L3180	L3181	L3182	L3183	L3184	L3185	L3186	L3187	L3188	L3189	L3190	L3191	L3192	L3193	L3194	L3195	L3196	L3197	L3198	L3199	L3200	L3201	L3202	L3203	L3204	L3205	L3206	L3207	L3208	L3209	L3210	L3211	L3212	L3213	L3214	L3215	L3216	L3217	L3218	L3219	L3220	L3221	L3222	L3223	L3224	L3225	L3226	L3227	L3228	L3229	L3230	L3231	L3232	L3233	L3234	L3235	L3236	L3237	L3238	L3239	L3240	L3241	L3242	L3243	L3244	L3245	L3246	L3247	L3248	L3249	L3250	L3251	L3252	L3253	L3254	L3255	L3256	L3257	L3258	L3259	L3260	L3261	L3262	L3263	L3264	L3265	L3266	L3267	L3268	L3269	L3270	L3271	L3272	L3273	L3274	L3275	L3276	L3277	L3278	L3279	L3280	L3281	L3282	L3283	L3284	L3285	L3286	L3287	L3288	L3289	L3290	L3291	L3292	L3293	L3294	L3295	L3296	L3297	L3298	L3299	L3300	L3301	L3302	L3303	L3304	L3305	L3306	L3307	L3308	L3309	L3310	L3311	L3312	L3313	L3314	L3315	L3316	L3317	L3318	L3319	L3320	L3321	L3322	L3323	L3324	L3325	L3326	L3327	L3328	L3329	L3330	L3331	L3332	L3333	L3334	L3335	L3336	L3337	L3338	L3339	L3340	L3341	L3342	L3343	L3344	L3345	L3346	L3347	L3348	L3349	L3350	L3351	L3352	L3353	L3354	L3355	L3356

I1438	I1353	T1255	R1166	V1074	A979	S973	Q761	L630	S530	S435	L314	V109
A1441	S1354	L1256	L1167	E1075	A980	T877	L762	L630	T531	F436	T315	S110
L1445	K1356	K1260	L1168	E1088	K982	V765	V765	S639	E534	L437		S111
T1446	R1357	L1267	L1169	V1089	I986	V769	T769	N640	G541	K439	L218	F113
N1447	R1358	Y1268	L1170	N1090	V680	T770	T770	L641	S542	T450	S321	S114
	I1359		V1171	L1091	V681	I771	I771	P649	R553	E451	R319	
A1451	H1360	A1271	T1178	K1092	L887	N772	N772	Q650	R556	L452	S320	R124
I1452	N1362	D1272	K1179	V1093	R988	E773	E773	P652	N566	S453	R329	E125
D1454	G1363	M1273	L1179	Y1097	V889	F778	F778	L653	N567	T456	T331	
D1455	K1368	A1274	Q1180	Y1097	Q992	F779	F779	N654	D568	L457	L237	S132
Y1456	R1369	S1275	THR	I1101	A896	N780	N780	S658	D559	E458	G236	
	N1370	M1278	GLY	N1102	L897	K782	K782		R564	V461	I239	V135
D1459	N1371	T1279	ASN	M1103	L900	P783	P783	L662	R564		P245	Y136
	M1375	Q1282	SER	D1104	D901	E784	E784	L663	Y578	V464	P245	Y137
N1462	K1376	N1283	LYS	E1006	Y902	A789	A789	L667	N580		P245	L138
K1463	Y1378	N1284	ASP	N1007	Q904	T790	T790	N668	L582		P245	D139
P1464	G1379	V1285	GLY	A1008	S905	P794	P794	L670	S586	Q467	P245	T140
	K1380	R1286	Y1196	V1012	P910	A795	A795	D687	N581	N471	P245	R141
L1467	L1381	R1287	I1111	R1015	T911	H796	H796		L582	T472	P245	R142
K1468	G1382	D1288	L1200	L1113	T911	H796	H796		S586	D473	P245	K146
Q1469	D1383	N1289	L1201	S1114	T911	H796	H796		S586	D474	P245	S147
Y1470	K1384	S1290	H1202		T911	H796	H796		S586		P245	
I1471	F1385	Y1291		D1117	A913	H803	H803	H690	Y589	K477	P245	L150
	I1386	Q1292	Y1205	A1118	Q914	L804	L804		S591	V478	P245	S151
N1475	S1390	F1294	T1211	G1119	L922	N812	N812	A693	K592	F479	P245	Q152
G1478	K1390	T1295	P1212	E1120	Q930	L814	L814	P694	L593	L480	P245	N154
T1479	S1398	N1297	I1213	Y1122	T933	L821	L821	A697	L594	T481	P245	M155
A1480	S1399	R1300	I1221	N1124	E940	L830	L830	A698	L595		P245	D156
	N1400	R1301	K1225	S1125	T933	L830	L830	T699	D596	Q486	P245	I157
V1483	K1401	R1301	L1226	V1126	E940	L830	L830	N706	L599	R487	P245	E158
S1484	L1402	R1301	E1227	K1130	T933	L830	L830	N706	L599	Y488	P245	
T1491	M1403	R1305	R1230	A1138	T933	L830	L830	N706	L599		P245	T161
	F1404	Y1306	R1230	A1138	T933	L830	L830	N706	L599		P245	L162
P1495	Y1408	A1307	R1230	A1138	T933	L830	L830	N706	L599		P245	S163
A1496	Q1409	Y1310	G1233	M1139	T933	L830	L830	N706	L599		P245	L170
K1497	Y1410	E1311	G1233	A1140	T933	L830	L830	N706	L599		P245	
V1498	Y1411	E1311	G1233	A1140	T933	L830	L830	N706	L599		P245	E176
Q1499	S1411	E1311	G1233	A1140	T933	L830	L830	N706	L599		P245	M181
I1500	G1412	E1311	G1233	A1140	T933	L830	L830	N706	L599		P245	Y182
	N1413	E1311	G1233	A1140	T933	L830	L830	N706	L599		P245	
V1502	T1414	S1317	A1237	E1143	T933	L830	L830	N706	L599		P245	L189
K1503	S1415	D1321	G1238	H1145	T933	L830	L830	N706	L599		P245	
A1504	G1416	D1321	Y1239	H1145	T933	L830	L830	N706	L599		P245	G298
G1505	L1417	D1321	E1242	I1147	T933	L830	L830	N706	L599		P245	F192
	N1418	G1323	E1242	I1147	T933	L830	L830	N706	L599		P245	R193
D1514	Q1419	Y1328	L1245	T1151	T933	L830	L830	N706	L599		P245	P194
K1515	G1420	Y1328	L1246	M1152	T933	L830	L830	N706	L599		P245	S195
	R1421	Y1328	V1247	P1153	T933	L830	L830	N706	L599		P245	G196
S1518	L1422	Y1333	M1248	P1153	T933	L830	L830	N706	L599		P245	G197
	L1423	Y1333	F1249	T1157	T933	L830	L830	N706	L599		P245	T198
F1525	Y1250	D1336	Y1250	T1157	T933	L830	L830	N706	L599		P245	H201
D1526	N1251	I1337	N1251	T1157	T933	L830	L830	N706	L599		P245	
E1527	Q1252	P1338	Q1252	T1157	T933	L830	L830	N706	L599		P245	S309
	T1428	Y1352	D1254	T1157	T933	L830	L830	N706	L599		P245	Q312
Y1530	Y1530			T1157	T933	L830	L830	N706	L599		P245	

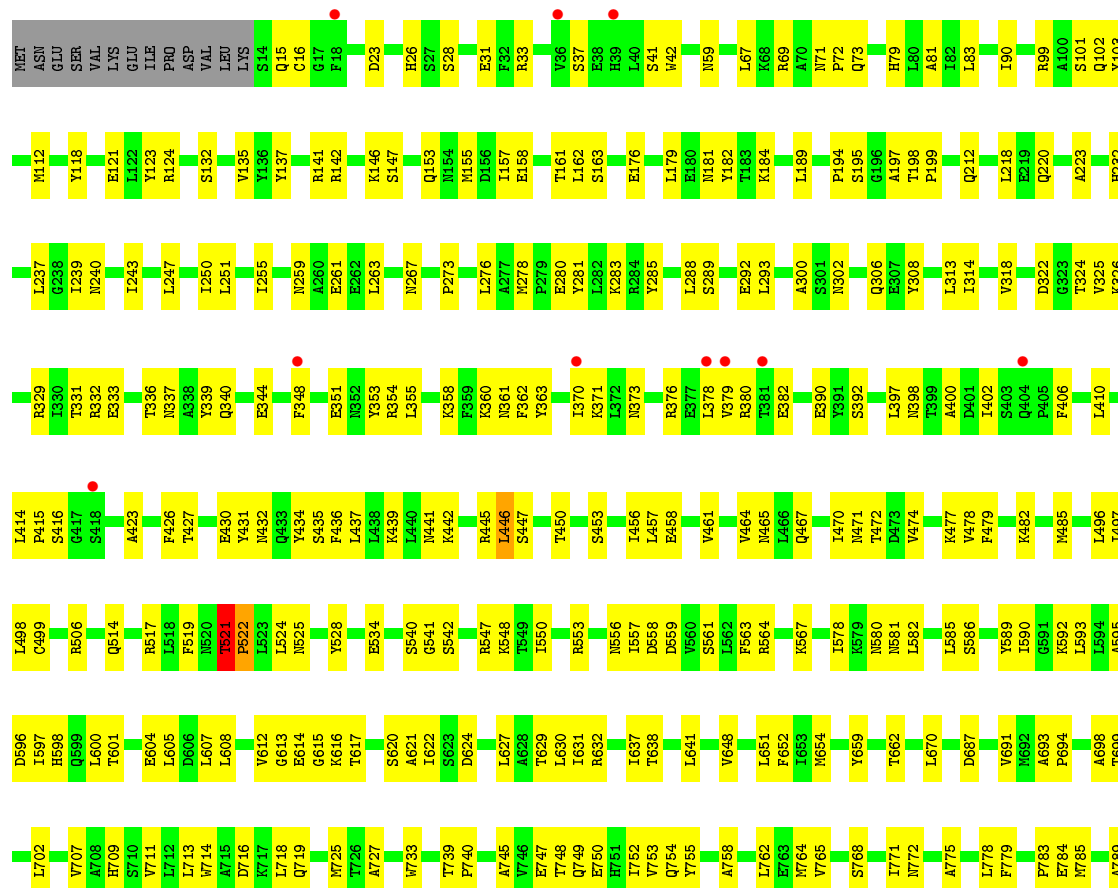




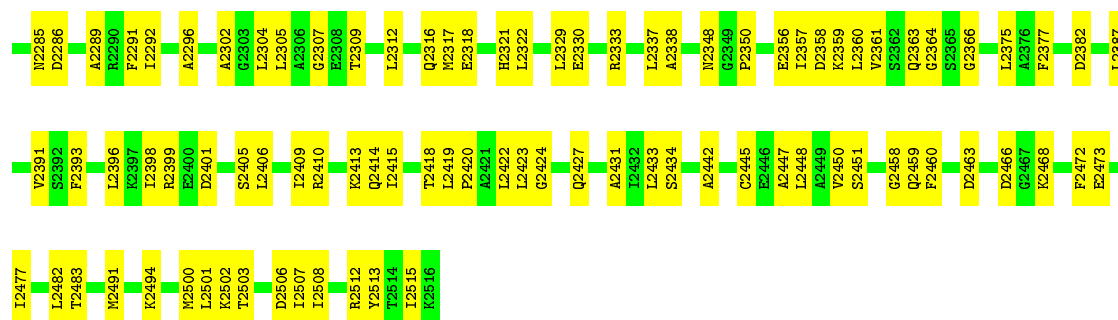
P1837	R1727	K1639	E1527	S1444	P1355	L1267	THR	A1096	Q976	L830	W114	I590	Q467
D1838	K1730	G1640	Y1530	L1445	A1396	Y1268	GLY	A1096	V977	T831	A715	I590	
A1839	G1731	F1641	Q1531	N1446	L1357	Y1268	ASN	Y1097	S978	A832	D716	I593	N471
A1841	I1732		N1532	N1447	R1358		SER	A979	A979	E833		I593	T472
Q1842	V1733		N1533	I1452	I1359	S1275	LVS	N1102	A980	L835	M725	D596	D473
H1843			A1534	I1456	H1360	M1278	ASP	N1103	A981	L835	T726	I597	V474
D1844	P1737	P1649	L1535	Y1456	H1361	T1279	GLY	D1104	Y982		A727	H598	K477
P1845	K1738	M1651	E1536	D1459	H1362	P1280	Y1188		T984	N844	W733	Q999	V478
H1846		S1652	I1537		G1363				Y986	L847	L734	T601	F479
K1847	H1743	T1654	S1540	N1462	K1368	E1281	Y1196	I1111	Y993	S850	K737	L605	Y463
Y1848	L1750	H1655	K1463	K1463	Q1371	S1283	L1198	L1113	T993	I851	A745	L608	R487
V1850		G1656	L1542	P1464	C1372	N1284	K1199	S1114	Q994	Q854	V746	L609	Y488
S1851	S1755	D1657	D1465	D1466	M1375	Y1286	L1200	E1115	N998	P860	T748	L609	I497
F1852	F1852	R1658	F1467	K1467	G1382	R1287	A1201	T1116	N1007	I877	Q749	V612	L498
F1853		W1660	K1468	K1468	L1381	M1289	I1203	G1119	A1008	P860	E750	G613	C499
L1857	S1761	F1661	F1555	Q1469	G1382	S1290	R1204	E1120	W1021	I877	H751	E614	N500
L1858	Y1767		A1557	M1473	L1382	Y1291	T1208	Y1121	M1007			L619	I503
L1859	E1770	Y1664	A1558	T1474	G1383	Q1292	W1209	Y1122	A1008	W850	W752	S620	R506
R1863	Y1774	V1668	A1559	D1475	K1384	F1294	N1210	W1123	W753	Q856	Q754	A621	I506
G1864	T1775	V1669	E1560	D1475	F1385	D1295	T1211	R1124	Y755			I622	S607
D1865	P1776		R1563	T1479	I1386	T1296	P1212	S1125		A800		S633	Y508
Y1868	M1777	I1675	K1564	A1480	S1390	N1297	F1215	V1126	N1025	P891	Q761	D624	
L1871	L1778	Q1680	L1565	S1484	N1394	N1298	I1221	K1130	K1026	Q892	V765	D624	N520
L1876	L1784	D1683	S1569	G1485	P1395	R1301	L1224	A1138	G1033	A896	I771	L627	T521
W1882	W1795	H1685	T1580	E1488	M1397	V1302	K1225	N1139	L897			A628	P522
Q1885	K1797	I1686	D1581	T1489	S1398	N1304	L1226	A1140	Y1039	Q998	N772	T629	L523
H1888	L1798	F1691	Q1594	N1490	S1399	R1305	E1227	W1144	Y1040	G899	E773	L630	L524
L1889	Y1799	P1692	Q1597	A1491	S1399	R1305	K1228	W1144	P1041	L900	L778	L631	N525
L1890	H1800	L1694	W1598	S1494	K1401	Y1306	N1229	K1146	Y1044			K632	Y528
L1892	S1801	D1695	R1604	A1495	L1402	E1310	R1230	K1146		L922	E784	K633	
L1896	S1802	D1696		A1496	L1402	I1312	G1233	I1147		Q830	F786	W640	E534
G1804	G1803	Q1701	L1608	K1497	Y1408	S1317	L1234	I1151	R1050	T933	A789	V648	G541
L1901	D1702	D1702	F1609	V1498	Y1409	D1321	Y1235	M1152	G1052	E940	T790	M654	R553
W1902	W1806	W1703	A1610	Q1499	Y1410	Y1322	C1236	P1153	Q1053	S947	P794	T662	A554
R1906	W1807	H1704	R1611	I1501	S1411	D1326	G1238	T1157	M1057	T948	A795	L663	F555
L1907	Q1810	T1710	V1614	V1502	T1414	Y1327	T1244	P1160	D1058	R952	H796	L670	I557
D1908	I1811	F1711	K1503	K1503	S1415	Y1328	L1245	V1161	L1060			L670	D568
S1921	Q1812	K1712	T1618	G1505	G1416			Y1163	L1069	V954	L799	L689	R564
Y1924	W1816	S1714	D1622	E1508	W1418	Y1333	Y1250	R1166	V1074	A958	I802	A693	L565
A1925	N1817	P1715	L1625	D1514	F1424	D1337	M1281	L1167	F1085	R962	L804	P694	L566
L1926	R1819	S1716	K1515	K1515	H1425	P1338	Q1252	Y1168	E1086		F807	A698	I578
R1927	G1718	G1717	M1627	D1516	H1425		D1254	L1169	Q1087	L967	A808	T699	K579
S1829	T1719	T1719	Q1630	P1523	W1437	M1341	T1255	W1171	V1088	Y970	W811	L702	N580
D1836	D1836	W1720		S1524	I1438	I1351	L1256	L1172	A1089	L971	N812	L706	S586
P1931	P1831	W1721	E1634	S1525	I1438	Y1352	D1287	T1178	M1090		L822	W706	
T1932				D1526	A1441	I1353	Y1259	K1179	K1092	D974		L713	Y589
PR0							K1260	Q1180	Y1093	N975			



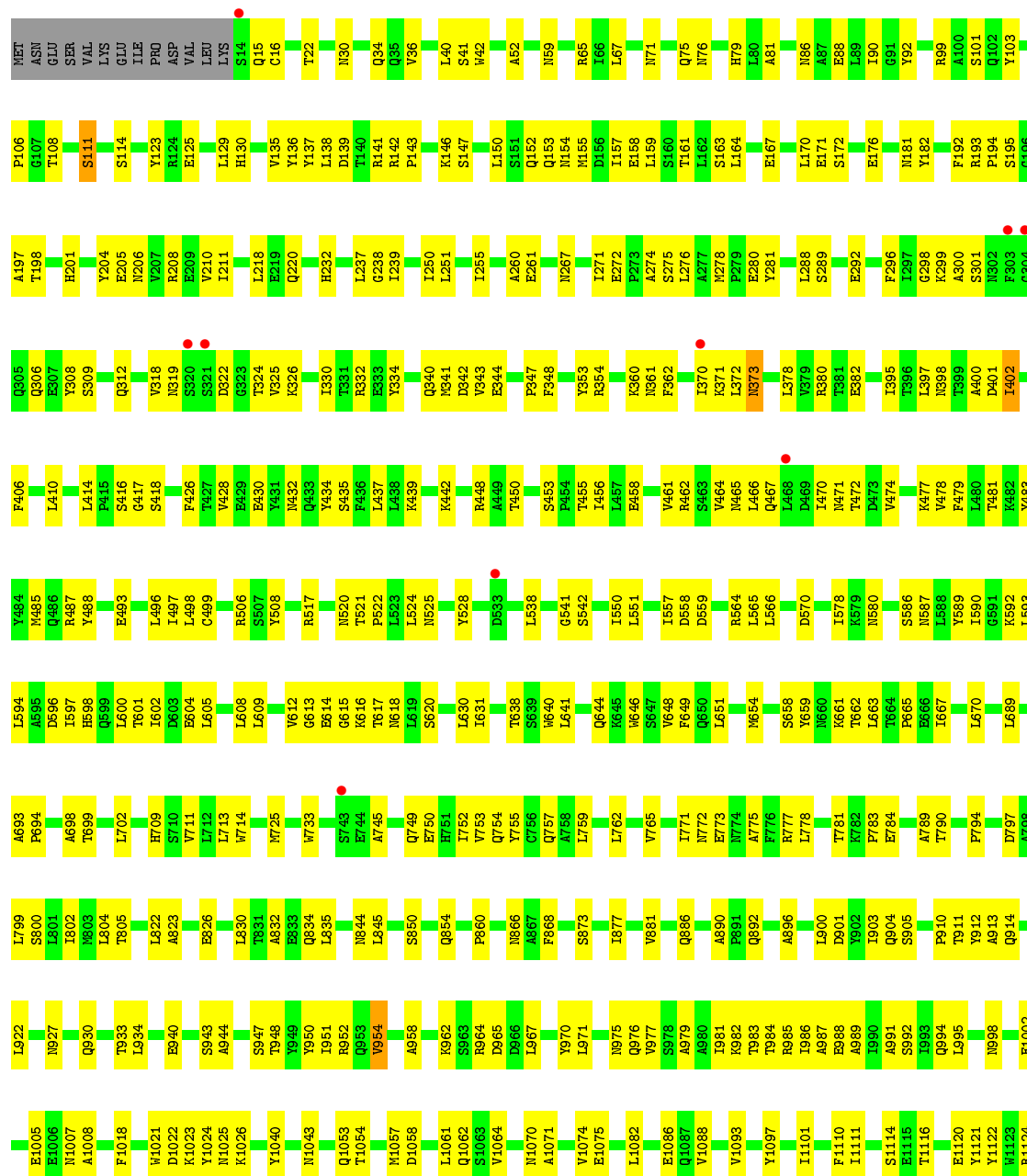
• Molecule 1: TcdA1



E2183	R2045	T1900	Y1774	L1652	L1461	K1368	A1274	ASP	S1114	H1009	Q904	T790
R2186	R2046	T1901	L1778	S1653	M1462	R1369	S1275	GLY	D1117	S1010	S905	P794
R2187	Q2059	R1906	L1782	T1654	K1463	Q1371	K1276	Y1188	E1120	V1011	P910	L799
R2188	L2063	L1907	R1782	H1655	A1559	L1374	T1279	E1191	Y1121	R1015	Q930	I302
R2190	L2064	D1908	R1788	W1660	E1560	H1375	P1280	R1195	Y1122	W1021	T933	P803
E2191	L2065	R1927	F1789	K1666	Q1562	L1381	N1284	Y1196	W1123	N1025	E940	L804
W2192	L2068	Q1928	D1790	Q1680	M1473	D1383	Y1286	L1200	S1125	Y1024	E944	L814
E2193	L2069	N1929	K1797	L1681	D1475	D1382	Y1287	H1202	D1127	K1026	A944	V821
I2194	K2073	T1932	W1800	T1682	G1478	F1385	D1288	W1209	S1129	W1031	S947	L822
Q2195	K2087	ALA	S1601	D1683	T1479	F1386	N1289	M1210	K1130	V1034	T948	F835
R2196	R2095	LEU	P1802	M1695	A1480	L1391	Y1291	T1211	N1043	N1043	Y951	L830
N2197	R2095	SER	S1803	F1691	V1483	N1394	Q1292	P1212	N1043	D1046	R952	T831
K2204	Y2099	LEU	G1804	T1692	V1487	S1398	F1294	I1213	N1139	P1047	Q953	A832
Q2205	G2100	SER	Y1805	P1693	M1490	S1399	D1295	P1213	N1140	N1055	V954	E833
E2218	K2101	R1939	T1806	L1694	A1492	K1401	N1297	I1221	W1141	M1056	A958	Q834
S2226	L2102	F1948	Q1812	D1695	S1494	L1402	R1300	S1222	E1143	R1050	X962	L835
L2227	N2106	L1949	Y1814	H1704	A1497	P1406	R1301	L1224	W1144	Q1053	S963	N840
K2228	T2107	N1952	Q1815	A1705	S1499	V1407	R1305	K1225	H1145	T1054	S964	L841
T2229	N2108	N1953	W1816	K1706	A1504	Y1407	Y1306	K1225	N1147	N1055	R967	N844
Q2230	E2111	Y1959	R1817	F1711	K1497	Y1408	E1311	R1230	D1148	M1057	Q969	L846
E2232	N2112	T1962	Y1818	K1712	V1498	Q1409	I1312	G1233	C1159	D1058	Y970	S850
Q2233	R2118	L1963	R1819	K1713	V1502	Y1410	P1313	G1238	P1153	Q1062	L972	I851
T2234	E2122	L1970	S1829	S1714	K1503	S1411	D1321	L1245	I1158	V1064	Q976	Q854
Q2235	G2123	N1973	Y1829	T1719	A1504	G1412	Y1322	L1245	R1159	L1069	Y977	P860
F2240	L2124	L1974	D1836	W1720	G1505	N1413	I1312	M1248	P1160	R1070	S978	P861
K2244	T2125	S1975	P1837	W1721	A1513	T1414	P1313	F1249	V1161	A1071	A979	V862
F2245	T2126	I1976	R1838	Y1726	D1514	G1416	D1321	M1251	Y1162	E1075	A980	N866
S2246	Y2128	L1976	A1839	R1727	K1515	L1417	Y1322	Q1252	K1164	N1090	Y981	A867
R2247	G2134	L1981	Q1842	M1627	D1516	N1418	Y1322	D1253	R1166	L1091	T983	F868
Y2251	P2142	L2016	H1843	E1628	V1517	Q1419	Y1328	D1254	L1167	K1092	T984	S873
N2252	N2143	W2017	P1845	T1629	Q1520	L1423	D1336	M1255	Y1168	V1093	A987	W880
W2253	T2144	R2018	K1849	Q1630	P1523	H1425	I1337	Q1255	R1166	Y1097	Q994	Q886
L2254	F2145	F2019	Y1738	Q1633	S1524	R1426	P1338	D1256	L1169	I1101	N998	A890
R2255	G2146	N2025	S1739	E1634	F1525	D1427	K1350	T1258	L1170	N1103	R999	P891
G2256	F2147	N2025	I1740	P1635	E1527	T1428	I1351	L1258	L1171	D1104	Q892	Q892
R2257	A2148	A2026	L1741	Q1636	D1526	E1435	I1352	S1258	L1171	T1108	E1002	L897
L2258	G2149	Q2028	T1742	L1637	Y1530	T1438	S1354	Y1259	L1172	I1101	Q994	Q886
I2261	G2150	W2029	Y1868	G1638	Q1531	P1439	P1355	K1260	I1177	N1102	N998	A890
A2271	T2161	L2033	L1876	G1640	F1532	P1439	K1356	M1261	T1178	N1103	R999	P891
R2272	N2165	F1760	F1641	F1642	E1536	A1441	L1357	Q1265	K1179	D1104	Q892	Q892
C2273	Q1885	S1761	Y1642	F1645	I1537	L1445	I1360	L1266	T1108	T1108	E1002	L897
L2274	A1886	N1764	F1645	P1648	L1542	T1452	H1361	G1267	GLY	I1111	E1005	D901
Q2041	L1887	N1770	P1649	Y1650	N1543	G1453	H1362	Y1268	ASN	I1111	E1006	Y902
E2175	H1888	E1770	Y1650	P1651	F1544	G1453	G1363	I1269	SER	G1112	N1007	Y902
K2178	S1899				A1549	S1460	Q1367	M1273	LVS	L1113	A1008	I903



• Molecule 1: TcdA1



F2480	Q2364	L2268	G2149	L2083	Y1895	D1790	H1704	T1607	Q1509	Y1410	R1305	I1213	S1125
Q2461	S2367	R2272	G2150	L2083	P1905	E1791	H1704	A1610	Q1509	S1411	R1305	I1213	S1125
L2462		C2273	G2151	T2039	R1906	A1792	M1709	A1610	D1514	N1412	Y1310	L1224	V1126
K2468	L2375	L2274	A2156	L2040	L1907	W1795	F1711	V1614	D1515	T1414	E1311	K1225	K1130
F2470	F2377	R2281	T2161	L2043	D1908	K1797	K1712	R1616	D1517	G1416	I1312	R1230	A1138
F2471		D2286	M2165	R2046	L1926	Y1799	S1714	L1625	Q1520	N1418	S1317	G1233	N1139
F2472	T2385	A2289	E2166	Q2047	R1927	W1800	S1716	M1627	P1523	Q1419	D1321	C1236	A1140
E2473	S2386	R2290	E2175	N2058	I1930	P1801	D1717	E1628	S1524	G1420	Y1322	G1237	W1144
G2474	L2387	L2291	A2176	L2063	P1932	P1802	G1718	T1629	S1524	R1421	Y1327	G1238	H1145
L2475	V2391	L2292	E2176	L2063	PRO	Y1805	T1719	Q1630	Y1530	L1422	Y1328	Y1239	I1147
A2476	F2391	L2293	R2188	L2064	ALA	W1806	W1720	Q1633	Q1531	T1429	E1242	E1242	C1149
L2477	F2393	R2293	R2189	L2065	ALA	W1807	W1721	E1634	F1532	W1437	M1248	M1248	P1150
L2482	T2398	G2294	Q2190	L2068	PRO	Q1810	F1725	P1635	I1537	I1438	F1249	F1249	I1151
L2484	R2399	G2295	R2191	L2069	LEU	I1811	V1726	Q1636	D1538	P1439	Y1250	Y1250	N1152
S2485		R2297	E2191	S2069	SER	Q1812	R1727	L1637	L1542	G1440	N1251	N1251	P1153
F2486	P2403	L2300	E2192	L2070	LEU	W1816	I1735	G1638	L1542	A1441	Q1252	Q1252	T1157
P2487	A2404	Y2301	Q2194	K2073	R1939	N1817	N1736	K1639	D1552	L1445	I1158	I1158	I1158
N2491	L2406	A2302	T2195	K2073	S1940	K1640	F1641	F1641	D1552	L1445	T1255	T1255	P1160
K2494	R2410	L2304	R2197	K2082	F1948	W1818	K1738	F1645	F1555	I1452	L1256	L1256	R1159
Q2497	R2411	L2305	N2198	E2086	Q1951	P1820	S1739	F1645	T1556	G1453	D1257	D1257	V1161
L2501	L2412	L2309	K2204	K2087	N1952	I1817	I1740	P1649	A1597	D1459	I1353	I1353	I1162
T2503	K2413	T2309	Q2205	S2088	N1953	T1742	T1742	Y1650	F1558	D1459	S1354	S1354	Y1163
T2504		K2089	R2206	K2089	W1960	D1836	H1743	M1651	E1560	N1462	K1356	K1356	R1166
N2505	L2419	L2312	L2206	R2095	R1966	P1837	H1743	L1652	D1561	K1463	L1357	L1357	L1167
G2512	Q2316	Q2316	E2218	R2095	R1966	I1838	Y1747	S1653	G1562	P1464	R1358	R1358	Y1168
Y2513	M2317	L2317	S2226	Y2099	N1973	A1839	L1750	T1654	R1563	P1464	L1267	L1267	L1169
T2514	L2423	L2102	L2227	G2100	L1974	Q1842	I1753	G1656	K1565	D1466	L1467	L1467	W1170
L2515	G2424	L2102	S1975	L2102	I1976	D1844	S1754	E1658	L1565	K1468	M1273	M1273	W1171
		N2106	L1976	L2102	L1976	P1845	S1755	R1659	E1568		A1274	A1274	L1172
		I2107	L1981	N2108	L1981	Y1848	F1760	W1660	S1569	M1473	Y1378	Y1378	L1177
		N2108	Y1982	N2108	Y1982	K1849	S1761	I1665	I1572	T1474	M1278	M1278	I1178
		E2111	L1995	L1995	L1995	V1850	G1762	V1668	P1573	G1380	K1179	K1179	Q1180
		L2117	L1996	L1996	L1996	S1851	A1763	V1669	L1576	D1478	E1281	E1281	THR
		R2118	Q2004	Q2004	Q2004	T1852	N1764			T1479	Q1282	Q1282	GLY
		A2122	K2008	K2008	K2008	F1853	Y1767	H1674	T1585	A1480	S1283	S1283	ASN
		V2128	L2009	L2009	L2009		E1770	I1675	L1586	I1386	N1284	N1284	SER
		L2133	S2012	S2012	S2012	D1865	L1772	S1678		P1486	Y1285	Y1285	LYS
		A2136	L2016	L2016	L2016	G1864	Y1773			V1487	R1287	R1287	ASP
		R2255	W2017	W2017	W2017	Y1868	Y1774	D1683	Q1594	T1491	Y1291	Y1291	GLY
		G2256	R2018	R2018	R2018	L1871	T1775	T1684	T1595	K1497	Q1292	Q1292	Y1196
		R2257	L2025	L2025	L2025	Y1883	M1777	N1685	M1596	N1400	F1293	F1293	L1200
		L2144	N2025	N2025	N2025	F1691	I1692	F1691	Q1599	Q1499	K1401	K1401	A1201
		F2145	A2026	A2026	A2026	P1693	P1693	P1693	R1602	I1500	T1296	T1296	H1202
		G2146	R2027	R2027	R2027	L1779	Y1779	L1696	T1603	V1502	M1297	M1297	I1203
		F2147	G1891	G1891	G1891	L1783	L1783	D1695	R1604	K1503	R1300	R1300	R1204
		A2148	M2029	M2029	M2029			D1696	L1605	G1505	F1404	F1404	R1204
											Y1408	Y1408	T1211
													P1212

## 4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, $\alpha$ , $\beta$ , $\gamma$	303.25Å 320.73Å 667.62Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	20.00 – 3.50 73.11 – 3.50	Depositor EDS
% Data completeness (in resolution range)	78.3 (20.00-3.50) 78.4 (73.11-3.50)	Depositor EDS
$R_{merge}$	(Not available)	Depositor
$R_{sym}$	0.39	Depositor
$\langle I/\sigma(I) \rangle$ <sup>1</sup>	1.40 (at 3.49Å)	Xtriage
Refinement program	PHENIX 1.8.1_1168	Depositor
R, $R_{free}$	0.243 , 0.295 0.245 , 0.297	Depositor DCC
$R_{free}$ test set	19006 reflections (3.00%)	wwPDB-VP
Wilson B-factor (Å <sup>2</sup> )	54.4	Xtriage
Anisotropy	0.030	Xtriage
Bulk solvent $k_{sol}$ (e/Å <sup>3</sup> ), $B_{sol}$ (Å <sup>2</sup> )	0.30 , 14.7	EDS
L-test for twinning <sup>2</sup>	$\langle  L  \rangle = 0.35$ , $\langle L^2 \rangle = 0.19$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
$F_o, F_c$ correlation	0.78	EDS
Total number of atoms	197663	wwPDB-VP
Average B, all atoms (Å <sup>2</sup> )	69.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 2.05% of the height of the origin peak. No significant pseudotranslation is detected.*

<sup>1</sup>Intensities estimated from amplitudes.

<sup>2</sup>Theoretical values of  $\langle |L| \rangle$ ,  $\langle L^2 \rangle$  for acentric reflections are 0.5, 0.333 respectively for untwinned datasets, and 0.375, 0.2 for perfectly twinned datasets.

## 5 Model quality

### 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	0.41	0/20194	0.66	4/27427 (0.0%)
1	B	0.41	0/20194	0.66	5/27427 (0.0%)
1	C	0.40	0/20194	0.65	7/27427 (0.0%)
1	D	0.41	0/20194	0.66	3/27427 (0.0%)
1	E	0.41	0/20194	0.67	5/27427 (0.0%)
1	F	0.38	0/20194	0.63	4/27427 (0.0%)
1	G	0.39	0/20177	0.64	2/27405 (0.0%)
1	H	0.38	0/20194	0.64	3/27427 (0.0%)
1	I	0.39	0/20194	0.64	3/27427 (0.0%)
1	J	0.39	0/20194	0.64	3/27427 (0.0%)
All	All	0.40	0/201923	0.65	39/274248 (0.0%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
1	A	0	1
1	C	0	2
1	D	0	1
1	F	0	1
1	G	0	1
1	H	0	1
1	I	0	1
All	All	0	8

There are no bond length outliers.

All (39) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	521	THR	C-N-CD	-7.83	103.37	120.60

*Continued on next page...*



*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	E	1461	LEU	CA-CB-CG	7.83	133.30	115.30
1	I	1291	TYR	N-CA-C	-7.48	90.79	111.00
1	F	1291	TYR	N-CA-C	-6.93	92.28	111.00
1	H	1291	TYR	N-CA-C	-6.20	94.25	111.00
1	J	1586	LEU	CA-CB-CG	6.19	129.55	115.30
1	D	1256	LEU	CA-CB-CG	6.18	129.51	115.30
1	E	2124	LEU	CA-CB-CG	6.17	129.49	115.30
1	F	2295	GLY	N-CA-C	-6.13	97.79	113.10
1	D	2124	LEU	CA-CB-CG	6.08	129.29	115.30
1	B	1417	LEU	N-CA-C	-6.05	94.65	111.00
1	I	2124	LEU	CA-CB-CG	5.77	128.56	115.30
1	A	1991	ASP	C-N-CD	-5.75	107.94	120.60
1	C	2454	MET	N-CA-C	-5.73	95.52	111.00
1	A	1637	LEU	CA-CB-CG	5.70	128.42	115.30
1	C	2124	LEU	CA-CB-CG	5.63	128.25	115.30
1	D	414	LEU	CA-CB-CG	5.55	128.08	115.30
1	B	1637	LEU	CA-CB-CG	5.51	127.98	115.30
1	F	1637	LEU	CA-CB-CG	5.50	127.94	115.30
1	H	2124	LEU	CA-CB-CG	5.41	127.75	115.30
1	J	1291	TYR	N-CA-C	-5.40	96.42	111.00
1	J	373	ASN	N-CA-C	-5.40	96.43	111.00
1	C	1291	TYR	N-CA-C	-5.37	96.50	111.00
1	E	373	ASN	N-CA-C	-5.24	96.85	111.00
1	A	1690	LEU	CA-CB-CG	5.24	127.35	115.30
1	H	2454	MET	N-CA-C	-5.22	96.92	111.00
1	E	2303	GLY	N-CA-C	-5.15	100.22	113.10
1	B	2304	LEU	CA-CB-CG	5.15	127.14	115.30
1	F	1690	LEU	CA-CB-CG	5.14	127.12	115.30
1	C	1637	LEU	CA-CB-CG	5.14	127.12	115.30
1	G	1478	GLY	N-CA-C	5.12	125.91	113.10
1	G	373	ASN	N-CA-C	-5.10	97.23	111.00
1	C	521	THR	N-CA-C	-5.09	97.26	111.00
1	C	2023	LEU	CA-CB-CG	5.05	126.91	115.30
1	B	2303	GLY	N-CA-C	-5.05	100.48	113.10
1	B	1291	TYR	N-CA-C	-5.04	97.39	111.00
1	I	1741	LEU	CA-CB-CG	5.04	126.88	115.30
1	E	1637	LEU	CA-CB-CG	5.02	126.84	115.30
1	A	1226	LEU	CA-CB-CG	5.00	126.81	115.30

There are no chirality outliers.

All (8) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	1730	LYS	Peptide
1	C	1730	LYS	Peptide
1	C	521	THR	Peptide
1	D	1730	LYS	Peptide
1	F	1730	LYS	Peptide
1	G	1730	LYS	Peptide
1	H	1730	LYS	Peptide
1	I	521	THR	Peptide

## 5.2 Too-close contacts

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	19768	0	19307	696	0
1	B	19768	0	19307	693	0
1	C	19768	0	19307	705	0
1	D	19768	0	19307	704	0
1	E	19768	0	19307	705	0
1	F	19768	0	19307	694	0
1	G	19751	0	19289	663	0
1	H	19768	0	19307	654	0
1	I	19768	0	19307	706	0
1	J	19768	0	19307	702	0
All	All	197663	0	193052	6448	0

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 16.

All (6448) 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:A:1653:SER:H	1:A:1713:LYS:HE3	1.13	1.09
1:J:1653:SER:H	1:J:1713:LYS:HE3	1.22	1.04
1:C:1117:ASP:H	1:D:1211:THR:HG21	1.21	1.03
1:J:1250:TYR:HE2	1:J:1294:PHE:HB3	1.20	1.03
1:E:1250:TYR:HE2	1:E:1294:PHE:HB3	1.26	1.01
1:G:155:MET:HB2	1:G:986:ILE:HD12	1.44	1.00

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1250:TYR:HE2	1:B:1294:PHE:HB3	1.25	0.98
1:F:1117:ASP:H	1:G:1211:THR:HG21	1.25	0.97
1:I:2302:ALA:HB3	1:I:2304:LEU:HG	1.47	0.96
1:A:155:MET:HB2	1:A:986:ILE:HD12	1.48	0.95
1:H:1810:GLN:HE22	1:I:1321:ASP:HA	1.31	0.95
1:I:1250:TYR:HE2	1:I:1294:PHE:HB3	1.32	0.95
1:H:962:LYS:HB2	1:H:1401:LYS:HE2	1.46	0.94
1:A:2149:GLY:N	1:E:2145:PHE:O	2.00	0.94
1:F:2145:PHE:O	1:G:2149:GLY:N	2.00	0.93
1:F:155:MET:HB2	1:F:986:ILE:HD12	1.46	0.93
1:F:521:THR:HG23	1:F:522:PRO:HD3	1.49	0.93
1:C:1502:VAL:HG11	1:C:1537:ILE:HD13	1.50	0.92
1:C:155:MET:HB2	1:C:986:ILE:HD12	1.51	0.92
1:A:1321:ASP:HA	1:E:1810:GLN:HE22	1.34	0.92
1:A:662:THR:H	1:A:753:VAL:HG11	1.35	0.92
1:G:1267:LEU:HD21	1:G:1275:SER:HB2	1.52	0.92
1:E:962:LYS:HB2	1:E:1401:LYS:HE2	1.52	0.91
1:A:1250:TYR:HE2	1:A:1294:PHE:HB3	1.36	0.91
1:E:155:MET:HB2	1:E:986:ILE:HD12	1.52	0.91
1:H:220:GLN:HG2	1:H:886:GLN:HG3	1.51	0.90
1:F:42:TRP:HH2	1:F:1321:ASP:HB2	1.36	0.90
1:B:155:MET:HB2	1:B:986:ILE:HD12	1.53	0.90
1:F:662:THR:H	1:F:753:VAL:HG11	1.36	0.90
1:I:155:MET:HB2	1:I:986:ILE:HD12	1.52	0.90
1:G:1502:VAL:HG11	1:G:1537:ILE:HD13	1.54	0.89
1:H:155:MET:HB2	1:H:986:ILE:HD12	1.53	0.89
1:B:104:VAL:HG11	1:B:108:THR:HG21	1.53	0.89
1:C:662:THR:H	1:C:753:VAL:HG11	1.37	0.89
1:E:220:GLN:HG2	1:E:886:GLN:HG3	1.54	0.89
1:A:892:GLN:HE22	1:B:541:GLY:HA2	1.38	0.88
1:D:1502:VAL:HG11	1:D:1537:ILE:HD13	1.53	0.88
1:I:1268:TYR:HH	1:I:1286:TYR:HH	1.19	0.88
1:B:1267:LEU:HD21	1:B:1275:SER:HB2	1.56	0.88
1:A:2330:GLU:HB2	1:B:2459:GLN:HA	1.55	0.87
1:G:141:ARG:NH2	1:G:1005:GLU:OE1	2.06	0.87
1:J:662:THR:H	1:J:753:VAL:HG11	1.39	0.87
1:B:2330:GLU:HB2	1:C:2459:GLN:HA	1.57	0.87
1:A:553:ARG:NH2	1:A:556:ASN:OD1	2.07	0.87
1:E:370:ILE:HG12	1:E:410:LEU:HD22	1.57	0.87
1:H:662:THR:H	1:H:753:VAL:HG11	1.38	0.87
1:A:541:GLY:HA2	1:E:892:GLN:HE22	1.39	0.86

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:524:LEU:H	1:I:525:ASN:HA	1.40	0.86
1:A:1505:GLY:H	1:A:1542:LEU:HB3	1.40	0.86
1:G:90:ILE:HG12	1:H:1452:ILE:HB	1.57	0.86
1:H:1151:ILE:HG22	1:H:1153:PRO:HD3	1.57	0.86
1:J:2029:MET:HG3	1:J:2272:ARG:HG3	1.57	0.86
1:B:1502:VAL:HG11	1:B:1537:ILE:HD13	1.56	0.86
1:C:2302:ALA:HB3	1:C:2304:LEU:HG	1.58	0.86
1:G:1505:GLY:H	1:G:1542:LEU:HB3	1.37	0.86
1:A:2459:GLN:HA	1:E:2330:GLU:HB2	1.57	0.86
1:A:2145:PHE:O	1:B:2149:GLY:N	2.08	0.86
1:E:1419:GLN:HB3	1:E:1462:ASN:ND2	1.92	0.85
1:B:892:GLN:HE22	1:C:541:GLY:HA2	1.41	0.85
1:A:844:ASN:H	1:B:564:ARG:HH22	1.19	0.85
1:B:1250:TYR:CE2	1:B:1294:PHE:HB3	2.09	0.85
1:D:1093:VAL:H	1:D:1594:GLN:HE22	1.24	0.85
1:D:844:ASN:H	1:E:564:ARG:HH22	1.25	0.85
1:F:1400:ASN:HD21	1:F:1479:THR:HG23	1.42	0.85
1:E:654:MET:O	1:E:796:HIS:NE2	2.09	0.85
1:G:1151:ILE:HG22	1:G:1153:PRO:HD3	1.58	0.85
1:J:2244:LYS:O	1:J:2247:ASN:ND2	2.10	0.85
1:F:553:ARG:NH2	1:F:556:ASN:OD1	2.08	0.85
1:H:289:SER:HB3	1:H:292:GLU:HG3	1.56	0.85
1:F:1250:TYR:HE2	1:F:1294:PHE:HB3	1.40	0.85
1:G:892:GLN:HE22	1:H:541:GLY:HA2	1.41	0.85
1:B:600:LEU:HD21	1:B:608:LEU:HD12	1.58	0.84
1:D:2302:ALA:HB3	1:D:2304:LEU:HG	1.59	0.84
1:E:289:SER:HB3	1:E:292:GLU:HG3	1.59	0.84
1:G:2330:GLU:HB2	1:H:2459:GLN:HA	1.59	0.84
1:G:2302:ALA:HB3	1:G:2304:LEU:HG	1.59	0.84
1:C:1653:SER:H	1:C:1713:LYS:HE3	1.39	0.84
1:E:1411:SER:HB2	1:E:1419:GLN:HA	1.57	0.84
1:J:2100:GLY:HA2	1:J:2196:ARG:HD3	1.59	0.84
1:E:1267:LEU:HD21	1:E:1275:SER:HB2	1.56	0.84
1:H:2029:MET:HG3	1:H:2272:ARG:HG3	1.58	0.84
1:C:127:ARG:HA	1:C:138:LEU:HD13	1.60	0.84
1:C:524:LEU:N	1:C:525:ASN:HA	1.93	0.84
1:F:1810:GLN:HE22	1:G:1321:ASP:HA	1.41	0.84
1:G:1649:PRO:HB3	1:G:1684:THR:HA	1.59	0.83
1:J:220:GLN:HG2	1:J:886:GLN:HG3	1.58	0.83
1:D:289:SER:HB3	1:D:292:GLU:HG3	1.58	0.83
1:G:662:THR:H	1:G:753:VAL:HG11	1.43	0.83

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:289:SER:HB3	1:F:292:GLU:HG3	1.61	0.83
1:J:289:SER:HB3	1:J:292:GLU:HG3	1.59	0.83
1:J:524:LEU:N	1:J:525:ASN:HA	1.93	0.83
1:C:331:THR:HB	1:C:427:THR:HB	1.59	0.83
1:D:1255:THR:HA	1:D:1296:THR:HG21	1.61	0.83
1:D:1653:SER:H	1:D:1713:LYS:HE3	1.43	0.83
1:J:578:ILE:HG22	1:J:580:ASN:H	1.41	0.83
1:F:1151:ILE:HG22	1:F:1153:PRO:HD3	1.61	0.82
1:I:1122:TYR:HE2	1:I:1146:LYS:HG2	1.44	0.82
1:I:2122:ALA:HB1	1:I:2175:GLU:HG2	1.60	0.82
1:B:1253:GLN:HB3	1:B:1296:THR:HA	1.60	0.82
1:C:553:ARG:NH2	1:C:556:ASN:OD1	2.12	0.82
1:F:1153:PRO:HB3	1:F:1171:TRP:HB2	1.60	0.82
1:I:2073:LYS:NZ	1:J:2218:GLU:OE2	2.12	0.82
1:J:1250:TYR:CE2	1:J:1294:PHE:HB3	2.11	0.82
1:B:1797:LYS:HE3	1:B:1801:SER:HB2	1.61	0.82
1:C:1253:GLN:HB3	1:C:1296:THR:HA	1.62	0.82
1:D:155:MET:HB2	1:D:986:ILE:HD12	1.61	0.82
1:I:670:LEU:HB2	1:I:699:THR:HG21	1.60	0.82
1:C:1151:ILE:HG22	1:C:1153:PRO:HD3	1.60	0.82
1:G:1868:TYR:OH	1:G:1974:LEU:O	1.97	0.82
1:C:220:GLN:HG2	1:C:886:GLN:HG3	1.61	0.82
1:A:1151:ILE:HG22	1:A:1153:PRO:HD3	1.60	0.82
1:I:2106:ASN:HB2	1:I:2189:ARG:NH1	1.94	0.82
1:F:2459:GLN:HA	1:J:2330:GLU:HB2	1.60	0.82
1:E:1502:VAL:HG11	1:E:1537:ILE:HD13	1.59	0.82
1:G:654:MET:O	1:G:796:HIS:NE2	2.11	0.82
1:D:1122:TYR:HE2	1:D:1146:LYS:HG2	1.42	0.81
1:D:1398:SER:HB3	1:D:1480:ALA:HB3	1.61	0.81
1:E:331:THR:HB	1:E:427:THR:HB	1.61	0.81
1:F:600:LEU:HD21	1:F:608:LEU:HD12	1.60	0.81
1:H:670:LEU:HB2	1:H:699:THR:HG21	1.61	0.81
1:B:104:VAL:CG1	1:B:108:THR:HG21	2.11	0.81
1:D:1741:LEU:HD23	1:D:1742:THR:H	1.46	0.81
1:H:614:GLU:HG3	1:H:630:LEU:HG	1.60	0.81
1:I:2046:ARG:NH2	1:I:2251:TYR:OH	2.12	0.81
1:B:276:LEU:HD23	1:B:437:LEU:HD13	1.63	0.81
1:B:289:SER:HB3	1:B:292:GLU:HG3	1.61	0.81
1:G:553:ARG:NH2	1:G:556:ASN:OD1	2.13	0.81
1:E:1505:GLY:H	1:E:1542:LEU:HB2	1.45	0.81
1:D:1261:ASN:H	1:D:1287:ARG:NH1	1.78	0.81

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:524:LEU:N	1:A:525:ASN:HA	1.96	0.81
1:H:2009:LEU:HD22	1:H:2294:PRO:HD3	1.62	0.81
1:I:2029:MET:HG3	1:I:2272:ARG:HG3	1.63	0.81
1:I:524:LEU:N	1:I:525:ASN:HA	1.94	0.81
1:H:2253:TRP:HA	1:I:698:ALA:HB1	1.63	0.80
1:A:1280:PRO:O	1:A:1284:ASN:ND2	2.15	0.80
1:F:176:GLU:HG2	1:F:954:VAL:HG22	1.63	0.80
1:H:524:LEU:N	1:H:525:ASN:HA	1.95	0.80
1:C:1250:TYR:HE2	1:C:1294:PHE:HB3	1.45	0.80
1:I:1398:SER:HB3	1:I:1480:ALA:HB3	1.63	0.80
1:C:600:LEU:HD21	1:C:608:LEU:HD12	1.63	0.80
1:C:1650:TYR:OH	1:C:1659:ARG:NH2	2.14	0.80
1:D:2122:ALA:HB1	1:D:2175:GLU:HG2	1.61	0.80
1:F:220:GLN:HG2	1:F:886:GLN:HG3	1.62	0.80
1:A:564:ARG:HH22	1:E:844:ASN:H	1.29	0.80
1:H:1398:SER:HB3	1:H:1480:ALA:HB3	1.63	0.80
1:I:1253:GLN:HB3	1:I:1296:THR:HA	1.64	0.80
1:I:90:ILE:HG12	1:J:1452:ILE:HB	1.62	0.80
1:B:1398:SER:HB3	1:B:1480:ALA:HB3	1.63	0.80
1:G:289:SER:HB3	1:G:292:GLU:HG3	1.62	0.79
1:A:127:ARG:HA	1:A:138:LEU:HD13	1.64	0.79
1:E:2302:ALA:HB3	1:E:2304:LEU:HG	1.64	0.79
1:J:2302:ALA:HB3	1:J:2304:LEU:HG	1.63	0.79
1:A:2253:TRP:HA	1:B:698:ALA:HB1	1.64	0.79
1:A:498:LEU:HD21	1:A:597:ILE:HD13	1.64	0.79
1:D:2410:ARG:HG3	1:D:2515:ILE:HG12	1.64	0.79
1:G:2095:ARG:NH2	1:G:2202:GLU:OE2	2.14	0.79
1:F:67:LEU:O	1:F:103:TYR:OH	2.00	0.79
1:G:524:LEU:N	1:G:525:ASN:HA	1.95	0.79
1:G:528:TYR:OH	1:G:580:ASN:ND2	2.16	0.79
1:I:1151:ILE:HG22	1:I:1153:PRO:HD3	1.63	0.79
1:I:197:ALA:HB3	1:I:948:THR:HG21	1.64	0.79
1:D:276:LEU:HD23	1:D:437:LEU:HD13	1.62	0.79
1:E:524:LEU:N	1:E:525:ASN:HA	1.97	0.79
1:E:662:THR:H	1:E:753:VAL:HG11	1.45	0.79
1:H:1267:LEU:HD21	1:H:1275:SER:HB2	1.64	0.79
1:H:1994:ALA:HB2	1:I:2065:LEU:HD11	1.65	0.79
1:J:1151:ILE:HG22	1:J:1153:PRO:HD3	1.62	0.79
1:B:141:ARG:NH2	1:B:1005:GLU:OE1	2.16	0.79
1:D:2029:MET:HG3	1:D:2272:ARG:HG3	1.62	0.79
1:J:614:GLU:HG3	1:J:630:LEU:HG	1.64	0.79

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2330:GLU:HB2	1:D:2459:GLN:HA	1.64	0.79
1:E:1630:GLN:HG2	1:E:1819:ARG:HB3	1.64	0.79
1:B:138:LEU:HD11	1:B:996:TYR:CE2	2.18	0.79
1:D:2027:ARG:NH2	1:D:2318:GLU:OE1	2.15	0.79
1:I:1411:SER:HB2	1:I:1419:GLN:HA	1.65	0.79
1:F:2149:GLY:N	1:J:2145:PHE:O	2.13	0.78
1:D:2442:ALA:HB3	1:D:2445:CYS:HB2	1.65	0.78
1:A:1267:LEU:HD21	1:A:1275:SER:HB2	1.65	0.78
1:I:497:ILE:HD13	1:I:589:TYR:HD2	1.49	0.78
1:D:2433:LEU:HD22	1:D:2482:LEU:HD21	1.66	0.78
1:D:892:GLN:HE22	1:E:541:GLY:HA2	1.49	0.78
1:F:528:TYR:OH	1:F:580:ASN:OD1	2.00	0.78
1:I:59:ASN:OD1	1:I:1927:ARG:NH2	2.17	0.78
1:J:497:ILE:HD13	1:J:589:TYR:HD2	1.49	0.78
1:A:289:SER:HB3	1:A:292:GLU:HG3	1.66	0.78
1:I:2145:PHE:O	1:J:2149:GLY:N	2.14	0.78
1:A:1220:LYS:O	1:A:1265:GLN:NE2	2.16	0.78
1:E:1398:SER:HB3	1:E:1480:ALA:HB3	1.66	0.78
1:E:193:ARG:HG2	1:E:250:ILE:HD11	1.65	0.78
1:G:1260:LYS:HA	1:G:1287:ARG:HH12	1.48	0.78
1:H:497:ILE:HD13	1:H:589:TYR:HD2	1.47	0.78
1:I:1053:GLN:NE2	1:I:1058:ASP:OD1	2.15	0.78
1:J:2111:GLU:OE2	1:J:2188:ARG:NH2	2.17	0.78
1:A:1390:SER:HB3	1:A:1484:SER:HB2	1.66	0.78
1:C:1797:LYS:HE3	1:C:1801:SER:HB2	1.64	0.78
1:D:844:ASN:HB2	1:E:564:ARG:HH12	1.49	0.78
1:E:1139:ASN:ND2	1:E:1829:SER:O	2.17	0.78
1:E:578:ILE:HG22	1:E:580:ASN:H	1.48	0.78
1:F:2433:LEU:HD22	1:F:2482:LEU:HD21	1.64	0.78
1:H:2330:GLU:HB2	1:I:2459:GLN:HA	1.64	0.78
1:I:81:ALA:H	1:I:1816:TRP:HH2	1.32	0.78
1:J:493:GLU:OE1	1:J:517:ARG:NH1	2.18	0.77
1:C:2244:LYS:O	1:C:2247:ASN:ND2	2.16	0.77
1:F:42:TRP:CH2	1:F:1321:ASP:HB2	2.18	0.77
1:H:2145:PHE:O	1:I:2149:GLY:N	2.15	0.77
1:J:1398:SER:HB3	1:J:1480:ALA:HB3	1.64	0.77
1:E:2029:MET:HG3	1:E:2272:ARG:HG3	1.67	0.77
1:G:1124:ARG:NH1	1:G:1764:ASN:OD1	2.18	0.77
1:I:2106:ASN:HB2	1:I:2189:ARG:HH11	1.48	0.77
1:J:1267:LEU:HD21	1:J:1275:SER:HB2	1.66	0.77
1:C:2087:LYS:HD3	1:D:2204:LYS:HB3	1.67	0.77

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1172:LEU:HD21	1:B:1196:TYR:HB3	1.67	0.77
1:B:1503:LYS:HB2	1:B:1552:ASP:HB2	1.66	0.77
1:H:147:SER:HA	1:H:1906:ARG:HE	1.50	0.77
1:I:220:GLN:HG2	1:I:886:GLN:HG3	1.66	0.77
1:C:663:LEU:HD13	1:C:668:LYS:HE3	1.67	0.77
1:F:1261:ASN:H	1:F:1287:ARG:NH1	1.81	0.77
1:F:81:ALA:H	1:F:1816:TRP:HH2	1.33	0.77
1:B:2253:TRP:HA	1:C:698:ALA:HB1	1.67	0.77
1:D:598:HIS:HB3	1:D:638:THR:HG21	1.67	0.77
1:E:521:THR:HG23	1:E:522:PRO:HD3	1.65	0.77
1:F:2330:GLU:HB2	1:G:2459:GLN:HA	1.65	0.77
1:D:59:ASN:OD1	1:D:1927:ARG:NH2	2.17	0.77
1:A:2258:LEU:HB2	1:E:2305:LEU:HD11	1.67	0.77
1:A:220:GLN:HG2	1:A:886:GLN:HG3	1.65	0.76
1:C:1398:SER:HB3	1:C:1480:ALA:HB3	1.67	0.76
1:I:289:SER:HB3	1:I:292:GLU:HG3	1.64	0.76
1:D:2087:LYS:HD3	1:E:2204:LYS:HB3	1.67	0.76
1:J:998:ASN:OD1	1:J:1026:LYS:NZ	2.18	0.76
1:A:1452:ILE:HB	1:E:90:ILE:HG12	1.67	0.76
1:B:524:LEU:N	1:B:525:ASN:HA	1.99	0.76
1:C:2018:ARG:NH1	1:C:2473:GLU:OE2	2.18	0.76
1:G:2029:MET:HG3	1:G:2272:ARG:HG3	1.66	0.76
1:A:42:TRP:CZ2	1:A:1320:LYS:HB3	2.19	0.76
1:A:1653:SER:N	1:A:1713:LYS:HE3	1.96	0.76
1:E:1250:TYR:CE2	1:E:1294:PHE:HB3	2.16	0.76
1:G:432:ASN:HB3	1:G:435:SER:HB3	1.66	0.76
1:H:1653:SER:H	1:H:1713:LYS:HE3	1.50	0.76
1:A:1172:LEU:HD21	1:A:1196:TYR:HB3	1.66	0.76
1:D:1151:ILE:HG22	1:D:1153:PRO:HD3	1.66	0.76
1:H:23:ASP:O	1:H:26:HIS:ND1	2.18	0.76
1:J:2108:ASN:HB3	1:J:2111:GLU:HG3	1.67	0.76
1:A:1502:VAL:HG11	1:A:1537:ILE:HD13	1.66	0.76
1:D:1139:ASN:ND2	1:D:1829:SER:O	2.18	0.76
1:H:1260:LYS:HA	1:H:1287:ARG:HH12	1.48	0.76
1:G:844:ASN:HB2	1:H:564:ARG:HH12	1.48	0.76
1:A:1130:LYS:HB2	1:A:1140:ALA:HB2	1.68	0.76
1:B:1280:PRO:O	1:B:1284:ASN:ND2	2.18	0.76
1:B:542:SER:O	1:B:548:LYS:NZ	2.18	0.76
1:F:497:ILE:HD13	1:F:589:TYR:HD2	1.51	0.76
1:I:1741:LEU:HD23	1:I:1742:THR:H	1.50	0.76
1:G:1915:THR:HG23	1:G:1943:THR:HB	1.67	0.76

*Continued on next page...*



*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:497:ILE:HD13	1:A:589:TYR:HD2	1.50	0.76
1:H:578:ILE:HG22	1:H:580:ASN:H	1.51	0.76
1:F:147:SER:HA	1:F:1906:ARG:HE	1.50	0.75
1:G:2145:PHE:O	1:H:2149:GLY:N	2.14	0.75
1:H:1139:ASN:ND2	1:H:1829:SER:O	2.18	0.75
1:I:1093:VAL:H	1:I:1594:GLN:HE22	1.32	0.75
1:C:1117:ASP:N	1:D:1211:THR:HG21	2.01	0.75
1:D:193:ARG:HG2	1:D:250:ILE:HD11	1.68	0.75
1:G:1253:GLN:HB3	1:G:1296:THR:HA	1.66	0.75
1:G:498:LEU:HD21	1:G:597:ILE:HD13	1.68	0.75
1:H:1093:VAL:H	1:H:1594:GLN:HE22	1.33	0.75
1:J:42:TRP:CH2	1:J:1321:ASP:HB2	2.22	0.75
1:I:370:ILE:HD12	1:I:379:VAL:HB	1.69	0.75
1:F:540:SER:O	1:J:892:GLN:NE2	2.20	0.75
1:D:553:ARG:NH2	1:D:556:ASN:OD1	2.20	0.75
1:E:1653:SER:H	1:E:1713:LYS:HE3	1.52	0.75
1:I:1225:LYS:O	1:I:1230:ARG:NH1	2.18	0.75
1:C:1220:LYS:O	1:C:1265:GLN:NE2	2.20	0.75
1:F:1633:GLN:HB3	1:F:1755:SER:HB2	1.68	0.75
1:J:962:LYS:NZ	1:J:1398:SER:O	2.20	0.75
1:B:844:ASN:HB2	1:C:564:ARG:HH12	1.51	0.75
1:D:42:TRP:HH2	1:D:1321:ASP:HB2	1.52	0.75
1:G:176:GLU:HG2	1:G:954:VAL:HG22	1.67	0.75
1:I:1502:VAL:HG11	1:I:1537:ILE:HD13	1.68	0.75
1:A:90:ILE:HG12	1:B:1452:ILE:HB	1.68	0.74
1:I:331:THR:HB	1:I:427:THR:HB	1.69	0.74
1:C:135:VAL:HG21	1:C:958:ALA:HB3	1.68	0.74
1:C:2145:PHE:O	1:D:2149:GLY:N	2.17	0.74
1:E:2106:ASN:HB2	1:E:2189:ARG:NH1	2.02	0.74
1:G:892:GLN:NE2	1:H:541:GLY:HA2	2.02	0.74
1:C:2047:GLN:OE1	1:C:2252:ASN:ND2	2.20	0.74
1:G:1869:ARG:HH21	1:G:1976:ILE:HG21	1.52	0.74
1:B:1151:ILE:HG22	1:B:1153:PRO:HD3	1.69	0.74
1:C:1139:ASN:ND2	1:C:1829:SER:O	2.19	0.74
1:G:1139:ASN:ND2	1:G:1829:SER:O	2.20	0.74
1:I:1139:ASN:ND2	1:I:1829:SER:O	2.19	0.74
1:J:155:MET:HB2	1:J:986:ILE:HD12	1.68	0.74
1:D:1250:TYR:CE2	1:D:1294:PHE:HB3	2.23	0.74
1:E:1225:LYS:O	1:E:1230:ARG:NH1	2.20	0.74
1:J:1253:GLN:HB3	1:J:1296:THR:HA	1.68	0.74
1:A:1104:ASP:HA	1:A:1598:TRP:HZ2	1.51	0.74

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:312:GLN:OE1	1:G:329:ARG:NH1	2.20	0.74
1:J:2398:ILE:HB	1:J:2477:ILE:HG21	1.70	0.74
1:A:541:GLY:HA2	1:E:892:GLN:NE2	2.03	0.74
1:B:414:LEU:HD12	1:B:416:SER:H	1.53	0.74
1:B:578:ILE:HG22	1:B:580:ASN:H	1.51	0.74
1:E:1868:TYR:CD2	1:E:1976:ILE:HG12	2.23	0.74
1:F:141:ARG:NH2	1:F:1005:GLU:OE1	2.19	0.74
1:B:2145:PHE:O	1:C:2149:GLY:N	2.14	0.74
1:C:497:ILE:HD13	1:C:589:TYR:HD2	1.51	0.74
1:E:998:ASN:OD1	1:E:1026:LYS:NZ	2.20	0.74
1:H:1651:ASN:HB3	1:H:1652:LEU:HA	1.69	0.74
1:J:1411:SER:HB2	1:J:1419:GLN:HA	1.68	0.74
1:A:2302:ALA:HB3	1:A:2304:LEU:HG	1.70	0.74
1:A:663:LEU:HD13	1:A:668:LYS:HE3	1.70	0.74
1:C:1130:LYS:HB2	1:C:1140:ALA:HB2	1.70	0.74
1:D:1649:PRO:HB3	1:D:1684:THR:HA	1.70	0.74
1:D:578:ILE:HG22	1:D:580:ASN:H	1.51	0.74
1:H:331:THR:HB	1:H:427:THR:HB	1.67	0.74
1:B:1117:ASP:OD2	1:D:2134:ALA:HA	1.87	0.74
1:B:1868:TYR:OH	1:B:1974:LEU:O	2.06	0.74
1:E:280:GLU:HG2	1:E:1399:SER:HB2	1.70	0.74
1:E:2122:ALA:HB1	1:E:2175:GLU:HG2	1.68	0.74
1:J:1649:PRO:HB3	1:J:1684:THR:HA	1.68	0.74
1:J:661:LYS:HD3	1:J:750:GLU:HB3	1.69	0.74
1:C:578:ILE:HG22	1:C:580:ASN:H	1.52	0.73
1:I:542:SER:O	1:I:548:LYS:NZ	2.20	0.73
1:B:127:ARG:HA	1:B:138:LEU:HD13	1.69	0.73
1:C:1333:TYR:HD2	1:C:1358:ARG:HD3	1.53	0.73
1:D:1225:LYS:O	1:D:1230:ARG:NH1	2.21	0.73
1:F:2073:LYS:NZ	1:G:2218:GLU:OE2	2.19	0.73
1:I:281:TYR:OH	1:I:952:ARG:NH1	2.20	0.73
1:A:1400:ASN:HB3	1:A:1402:LEU:H	1.51	0.73
1:C:2073:LYS:NZ	1:D:2218:GLU:OE2	2.15	0.73
1:E:1294:PHE:HA	1:E:1301:ARG:HB2	1.70	0.73
1:B:1225:LYS:O	1:B:1230:ARG:NH1	2.21	0.73
1:B:497:ILE:HD13	1:B:589:TYR:HD2	1.53	0.73
1:D:612:VAL:HG22	1:D:637:ILE:HD12	1.70	0.73
1:F:1321:ASP:HA	1:J:1810:GLN:HE22	1.52	0.73
1:F:1797:LYS:HE3	1:F:1801:SER:HB2	1.69	0.73
1:J:147:SER:HA	1:J:1906:ARG:HE	1.53	0.73
1:E:2442:ALA:HB3	1:E:2445:CYS:HB2	1.70	0.73

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1250:TYR:HE2	1:D:1294:PHE:HB3	1.52	0.73
1:F:1172:LEU:HD21	1:F:1196:TYR:HB3	1.68	0.73
1:F:524:LEU:N	1:F:525:ASN:HA	2.03	0.73
1:H:2433:LEU:HD22	1:H:2482:LEU:HD21	1.69	0.73
1:A:1153:PRO:HB3	1:A:1171:TRP:HB2	1.70	0.73
1:B:197:ALA:HB3	1:B:948:THR:HG21	1.68	0.73
1:F:2302:ALA:HB3	1:F:2304:LEU:HG	1.71	0.73
1:F:940:GLU:HG3	1:F:979:ALA:HB2	1.70	0.73
1:G:1630:GLN:HG2	1:G:1819:ARG:HB3	1.70	0.73
1:J:353:TYR:HD2	1:J:397:LEU:HD12	1.52	0.73
1:A:1810:GLN:HE22	1:B:1321:ASP:HA	1.52	0.73
1:D:2330:GLU:HB2	1:E:2459:GLN:HA	1.71	0.73
1:G:654:MET:HE3	1:G:765:VAL:HG22	1.67	0.73
1:I:218:LEU:HD21	1:I:239:ILE:HG21	1.70	0.73
1:B:844:ASN:H	1:C:564:ARG:HH22	1.36	0.73
1:A:102:GLN:HE22	1:A:1901:THR:HG23	1.53	0.73
1:C:193:ARG:HG2	1:C:250:ILE:HD11	1.71	0.73
1:J:1502:VAL:HG11	1:J:1537:ILE:HD13	1.70	0.73
1:B:237:LEU:HB2	1:B:479:PHE:HB2	1.71	0.72
1:D:141:ARG:NH2	1:D:1005:GLU:OE1	2.21	0.72
1:I:370:ILE:O	1:I:378:LEU:N	2.19	0.72
1:B:2046:ARG:NH2	1:B:2251:TYR:OH	2.22	0.72
1:F:2364:GLY:HA2	1:F:2377:PHE:HE2	1.54	0.72
1:H:2106:ASN:HB2	1:H:2189:ARG:NH1	2.04	0.72
1:A:1253:GLN:HB3	1:A:1296:THR:HA	1.69	0.72
1:C:197:ALA:HB3	1:C:948:THR:HG21	1.71	0.72
1:D:1868:TYR:CD2	1:D:1976:ILE:HG12	2.24	0.72
1:F:1994:ALA:HB2	1:G:2065:LEU:HD11	1.69	0.72
1:I:276:LEU:HD23	1:I:437:LEU:HD13	1.70	0.72
1:B:994:GLN:NE2	1:B:1026:LYS:O	2.21	0.72
1:B:1633:GLN:HB3	1:B:1755:SER:HB2	1.69	0.72
1:C:237:LEU:HB2	1:C:479:PHE:HB2	1.71	0.72
1:E:81:ALA:H	1:E:1816:TRP:HH2	1.35	0.72
1:I:2410:ARG:HG3	1:I:2515:ILE:HG12	1.70	0.72
1:J:1797:LYS:HE3	1:J:1801:SER:HB2	1.69	0.72
1:B:1012:VAL:HG13	1:B:1015:ARG:HD2	1.71	0.72
1:C:1267:LEU:HD21	1:C:1275:SER:HB2	1.69	0.72
1:C:59:ASN:OD1	1:C:1927:ARG:NH2	2.21	0.72
1:F:2244:LYS:O	1:F:2247:ASN:ND2	2.23	0.72
1:G:370:ILE:HG12	1:G:410:LEU:HD22	1.72	0.72
1:I:2018:ARG:NH2	1:I:2468:LYS:O	2.23	0.72

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:521:THR:HG23	1:D:522:PRO:HD3	1.71	0.72
1:D:498:LEU:HD21	1:D:597:ILE:HD13	1.72	0.72
1:A:1250:TYR:CE2	1:A:1294:PHE:HB3	2.23	0.72
1:D:1267:LEU:HD21	1:D:1275:SER:HB2	1.72	0.72
1:G:2224:LYS:HE2	1:G:2228:LYS:HE3	1.69	0.72
1:I:592:LYS:NZ	1:I:596:ASP:OD2	2.21	0.72
1:B:1653:SER:H	1:B:1713:LYS:HE3	1.53	0.72
1:I:1639:LYS:HG2	1:I:1694:LEU:HB2	1.72	0.72
1:I:432:ASN:HB3	1:I:435:SER:HB3	1.72	0.72
1:A:2073:LYS:NZ	1:B:2218:GLU:OE2	2.23	0.72
1:C:289:SER:HB3	1:C:292:GLU:HG3	1.70	0.72
1:F:104:VAL:HG11	1:F:108:THR:HG21	1.72	0.72
1:J:1505:GLY:H	1:J:1542:LEU:HB3	1.54	0.72
1:B:553:ARG:NH2	1:B:556:ASN:OD1	2.23	0.71
1:C:453:SER:HB3	1:C:456:ILE:HG12	1.72	0.71
1:H:2273:CYS:HB3	1:H:2292:ILE:HD13	1.70	0.71
1:I:1653:SER:H	1:I:1713:LYS:HE3	1.54	0.71
1:B:101:SER:HA	1:C:1429:THR:HG21	1.72	0.71
1:B:378:LEU:HB3	1:B:395:ILE:HD13	1.72	0.71
1:D:927:ASN:OD1	1:D:930:GLN:NE2	2.20	0.71
1:H:1296:THR:OG1	1:H:1297:ASN:N	2.22	0.71
1:A:1122:TYR:HE2	1:A:1146:LYS:HG2	1.55	0.71
1:A:1650:TYR:HE1	1:A:1654:THR:HA	1.55	0.71
1:E:471:ASN:OD1	1:E:472:THR:N	2.23	0.71
1:J:520:ASN:HD21	1:J:528:TYR:HB2	1.56	0.71
1:A:141:ARG:NH2	1:A:1005:GLU:OE1	2.24	0.71
1:B:370:ILE:HG12	1:B:410:LEU:HD22	1.71	0.71
1:D:524:LEU:N	1:D:525:ASN:HA	2.05	0.71
1:E:141:ARG:NH2	1:E:1005:GLU:OE1	2.23	0.71
1:F:1653:SER:H	1:F:1713:LYS:HE3	1.54	0.71
1:F:2106:ASN:HB2	1:F:2189:ARG:NH1	2.05	0.71
1:F:2442:ALA:HB3	1:F:2445:CYS:HB2	1.72	0.71
1:H:1630:GLN:HG2	1:H:1819:ARG:HB3	1.71	0.71
1:H:2335:VAL:HG21	1:H:2396:LEU:HD13	1.72	0.71
1:I:2433:LEU:HB2	1:I:2448:LEU:HB3	1.71	0.71
1:J:461:VAL:HG22	1:J:474:VAL:HG11	1.71	0.71
1:F:2087:LYS:HD3	1:G:2204:LYS:HB3	1.72	0.71
1:J:380:ARG:NH1	1:J:382:GLU:OE1	2.23	0.71
1:F:104:VAL:CG1	1:F:108:THR:HG21	2.20	0.71
1:F:1651:ASN:HB3	1:F:1652:LEU:HA	1.72	0.71
1:G:2018:ARG:NH2	1:G:2468:LYS:O	2.23	0.71

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:2501:LEU:HA	1:G:2504:LEU:HD12	1.72	0.71
1:A:201:HIS:HB3	1:A:204:TYR:HB3	1.72	0.71
1:A:2393:PHE:HB3	1:A:2477:ILE:O	1.91	0.71
1:A:892:GLN:NE2	1:B:541:GLY:HA2	2.06	0.71
1:I:998:ASN:OD1	1:I:1026:LYS:NZ	2.23	0.71
1:I:1630:GLN:HG2	1:I:1819:ARG:HB3	1.71	0.71
1:A:197:ALA:HB3	1:A:948:THR:HG21	1.73	0.71
1:D:1328:TYR:HB2	1:D:1368:LYS:HG2	1.73	0.71
1:D:1386:ILE:HD12	1:D:1408:TYR:HD1	1.55	0.71
1:G:1639:LYS:HG2	1:G:1694:LEU:HB2	1.73	0.71
1:J:237:LEU:HB2	1:J:479:PHE:HB2	1.72	0.71
1:J:528:TYR:HD1	1:J:550:ILE:HG21	1.56	0.71
1:A:612:VAL:HG22	1:A:637:ILE:HD12	1.73	0.71
1:H:2403:PRO:HB2	1:I:2382:ASP:HB3	1.72	0.71
1:A:288:LEU:HD21	1:A:448:ARG:HD2	1.72	0.71
1:D:42:TRP:CH2	1:D:1321:ASP:HB2	2.26	0.71
1:D:561:SER:HB3	1:D:602:ILE:HD12	1.72	0.71
1:G:1047:PRO:HB3	1:G:1777:MET:HB3	1.71	0.71
1:H:1225:LYS:O	1:H:1230:ARG:NH1	2.23	0.71
1:J:600:LEU:HD21	1:J:608:LEU:HD12	1.72	0.71
1:B:2422:LEU:H	1:B:2503:THR:HG21	1.56	0.70
1:C:1104:ASP:HA	1:C:1598:TRP:HZ2	1.54	0.70
1:D:670:LEU:HB2	1:D:699:THR:HG21	1.71	0.70
1:E:312:GLN:OE1	1:E:329:ARG:NH1	2.24	0.70
1:J:594:LEU:HD21	1:J:631:ILE:HG12	1.73	0.70
1:A:1411:SER:HB2	1:A:1419:GLN:HA	1.73	0.70
1:B:300:ALA:HB2	1:B:306:GLN:HE21	1.54	0.70
1:B:594:LEU:HD21	1:B:631:ILE:HG12	1.71	0.70
1:B:962:LYS:NZ	1:B:1398:SER:OG	2.23	0.70
1:C:1385:PHE:HB2	1:C:1408:TYR:O	1.92	0.70
1:D:1794:ARG:NH2	1:D:1798:TYR:OH	2.24	0.70
1:D:378:LEU:HD13	1:D:395:ILE:HG21	1.73	0.70
1:I:1357:LEU:HD12	1:I:1555:PHE:HB3	1.73	0.70
1:I:1614:VAL:HG11	1:J:1166:ARG:HB2	1.73	0.70
1:C:1495:PRO:HG3	1:C:1520:GLN:OE1	1.91	0.70
1:D:600:LEU:HD21	1:D:608:LEU:HD12	1.72	0.70
1:H:193:ARG:HG2	1:H:250:ILE:HD11	1.71	0.70
1:C:528:TYR:OH	1:C:580:ASN:OD1	2.05	0.70
1:D:662:THR:H	1:D:753:VAL:HG11	1.57	0.70
1:F:1139:ASN:ND2	1:F:1829:SER:O	2.24	0.70
1:G:1153:PRO:HB3	1:G:1171:TRP:HB2	1.73	0.70

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:1868:TYR:CD2	1:J:1976:ILE:HG12	2.27	0.70
1:J:402:ILE:HG23	1:J:428:VAL:HG13	1.73	0.70
1:C:1296:THR:OG1	1:C:1297:ASN:N	2.22	0.70
1:F:1630:GLN:HE22	1:F:1818:VAL:HA	1.55	0.70
1:G:2403:PRO:HB2	1:H:2382:ASP:HB3	1.74	0.70
1:H:2302:ALA:HB3	1:H:2304:LEU:HG	1.73	0.70
1:I:662:THR:H	1:I:753:VAL:HG11	1.56	0.70
1:J:1790:ASP:OD1	1:J:1863:ARG:NH2	2.24	0.70
1:J:783:PRO:HB3	1:J:794:PRO:HB3	1.70	0.70
1:F:414:LEU:HD12	1:F:416:SER:H	1.56	0.70
1:J:1139:ASN:ND2	1:J:1829:SER:O	2.25	0.70
1:J:276:LEU:HD23	1:J:437:LEU:HD13	1.73	0.70
1:B:1868:TYR:CD2	1:B:1976:ILE:HG12	2.26	0.70
1:D:1651:ASN:HB3	1:D:1652:LEU:HA	1.73	0.70
1:H:714:TRP:CD1	1:H:794:PRO:HG2	2.26	0.70
1:I:1012:VAL:HG13	1:I:1015:ARG:HD2	1.74	0.70
1:E:2337:LEU:HD22	1:E:2391:VAL:HG21	1.73	0.70
1:E:667:ILE:HD11	1:E:757:GLN:HG3	1.74	0.70
1:G:497:ILE:HD13	1:G:589:TYR:HD2	1.57	0.70
1:H:566:LEU:HD13	1:H:578:ILE:HD11	1.74	0.70
1:A:192:PHE:HD2	1:A:198:THR:HG21	1.56	0.70
1:A:892:GLN:HE22	1:B:541:GLY:CA	2.04	0.70
1:E:1168:TYR:HD2	1:E:1200:LEU:HD21	1.57	0.70
1:E:237:LEU:HB2	1:E:479:PHE:HB2	1.71	0.70
1:G:844:ASN:H	1:H:564:ARG:HH22	1.39	0.70
1:A:2046:ARG:NH2	1:A:2251:TYR:OH	2.24	0.70
1:E:2027:ARG:NH2	1:E:2318:GLU:OE1	2.24	0.70
1:C:1503:LYS:HB2	1:C:1552:ASP:HB2	1.73	0.69
1:C:2338:ALA:HB2	1:C:2506:ASP:HB3	1.74	0.69
1:D:2244:LYS:O	1:D:2247:ASN:ND2	2.25	0.69
1:F:578:ILE:HG22	1:F:580:ASN:H	1.57	0.69
1:G:998:ASN:OD1	1:G:1026:LYS:NZ	2.24	0.69
1:A:1994:ALA:HB2	1:B:2065:LEU:HD11	1.72	0.69
1:A:1117:ASP:H	1:B:1211:THR:HG21	1.57	0.69
1:B:2095:ARG:HD3	1:C:2198:ASN:HD21	1.57	0.69
1:E:2253:TRP:HE3	1:E:2254:LEU:HD12	1.56	0.69
1:E:2009:LEU:HD22	1:E:2294:PRO:HD3	1.72	0.69
1:F:1225:LYS:O	1:F:1230:ARG:NH1	2.19	0.69
1:F:2198:ASN:HD21	1:J:2095:ARG:HD3	1.57	0.69
1:G:2410:ARG:HG3	1:G:2515:ILE:HG12	1.73	0.69
1:H:218:LEU:HD21	1:H:239:ILE:HG21	1.73	0.69

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:830:LEU:HD21	1:H:835:LEU:HD12	1.73	0.69
1:J:370:ILE:HG12	1:J:410:LEU:HD22	1.73	0.69
1:A:578:ILE:HG22	1:A:580:ASN:H	1.57	0.69
1:B:654:MET:HE3	1:B:765:VAL:HG22	1.74	0.69
1:E:1944:LEU:HA	1:E:1947:LEU:HD13	1.73	0.69
1:H:1170:LEU:HD12	1:H:1236:CYS:SG	2.32	0.69
1:C:1794:ARG:NH2	1:C:1798:TYR:OH	2.25	0.69
1:D:1650:TYR:O	1:D:1651:ASN:ND2	2.25	0.69
1:D:461:VAL:HG22	1:D:474:VAL:HG11	1.74	0.69
1:E:414:LEU:HD12	1:E:416:SER:H	1.58	0.69
1:F:2018:ARG:NH2	1:F:2468:LYS:O	2.25	0.69
1:I:1386:ILE:HG13	1:I:1410:TYR:HE1	1.57	0.69
1:I:2433:LEU:HD22	1:I:2482:LEU:HD21	1.74	0.69
1:I:414:LEU:HD12	1:I:416:SER:H	1.57	0.69
1:J:2338:ALA:HB2	1:J:2506:ASP:HB3	1.73	0.69
1:F:1452:ILE:HB	1:J:90:ILE:HG12	1.73	0.69
1:F:1267:LEU:HD21	1:F:1275:SER:HB2	1.73	0.69
1:G:1159:ARG:NH2	1:G:1301:ARG:O	2.26	0.69
1:H:892:GLN:NE2	1:I:541:GLY:HA2	2.07	0.69
1:I:2144:ILE:HD12	1:J:2144:ILE:HG21	1.73	0.69
1:J:1053:GLN:NE2	1:J:1058:ASP:OD1	2.23	0.69
1:A:1386:ILE:HG13	1:A:1410:TYR:HE1	1.58	0.69
1:B:1295:ASP:H	1:B:1301:ARG:HG3	1.57	0.69
1:C:67:LEU:O	1:C:103:TYR:OH	2.09	0.69
1:F:2448:LEU:HB2	1:F:2472:PHE:HE1	1.58	0.69
1:J:1630:GLN:HG2	1:J:1819:ARG:HB3	1.72	0.69
1:F:2460:PHE:CE1	1:J:2512:ARG:HB3	2.27	0.69
1:A:1651:ASN:HB3	1:A:1652:LEU:HA	1.73	0.69
1:F:2029:MET:HG3	1:F:2272:ARG:HG3	1.73	0.69
1:H:1253:GLN:HB3	1:H:1296:THR:HA	1.74	0.69
1:C:1559:ALA:HB2	1:C:1565:LEU:HD21	1.75	0.69
1:C:498:LEU:HD21	1:C:597:ILE:HD13	1.75	0.69
1:D:1868:TYR:HE1	1:D:1970:LEU:HG	1.58	0.69
1:E:2033:LEU:HD11	1:E:2266:TYR:HA	1.74	0.69
1:I:844:ASN:HB2	1:J:564:ARG:HH12	1.57	0.69
1:J:172:SER:HG	1:J:950:TYR:HE1	1.39	0.69
1:J:951:ILE:HD11	1:J:967:LEU:HB2	1.74	0.69
1:E:1093:VAL:H	1:E:1594:GLN:HE22	1.39	0.69
1:G:614:GLU:HG3	1:G:630:LEU:HG	1.73	0.69
1:H:73:GLN:NE2	1:H:1952:ILE:HG23	2.08	0.69
1:A:2204:LYS:HB3	1:E:2087:LYS:HD3	1.73	0.69

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:892:GLN:NE2	1:C:541:GLY:HA2	2.07	0.69
1:F:1666:LYS:HD3	1:F:1706:LYS:HD3	1.75	0.69
1:G:237:LEU:HB2	1:G:479:PHE:HB2	1.74	0.69
1:J:1498:VAL:HG21	1:J:1530:TYR:HE2	1.57	0.69
1:A:1639:LYS:HG2	1:A:1694:LEU:HB2	1.75	0.69
1:A:844:ASN:HB2	1:B:564:ARG:HH12	1.56	0.69
1:B:1899:SER:HG	1:C:301:SER:HG	1.41	0.69
1:C:2018:ARG:NH2	1:C:2468:LYS:O	2.26	0.69
1:A:1650:TYR:O	1:A:1651:ASN:HB2	1.93	0.68
1:C:464:VAL:HG21	1:C:477:LYS:HD2	1.75	0.68
1:D:1505:GLY:H	1:D:1542:LEU:HB3	1.57	0.68
1:E:482:LYS:HA	1:E:485:MET:HE2	1.75	0.68
1:G:1328:TYR:HB2	1:G:1368:LYS:HG2	1.74	0.68
1:J:176:GLU:HG2	1:J:954:VAL:HG22	1.75	0.68
1:G:1296:THR:OG1	1:G:1297:ASN:N	2.24	0.68
1:G:2442:ALA:HB3	1:G:2445:CYS:HB2	1.75	0.68
1:G:2073:LYS:NZ	1:H:2218:GLU:OE2	2.23	0.68
1:I:1666:LYS:HD3	1:I:1706:LYS:HD3	1.75	0.68
1:J:1741:LEU:HD23	1:J:1742:THR:H	1.58	0.68
1:C:771:ILE:HD11	1:C:804:LEU:HB3	1.75	0.68
1:D:1797:LYS:HE3	1:D:1801:SER:HB2	1.74	0.68
1:E:1666:LYS:HD3	1:E:1706:LYS:HD3	1.75	0.68
1:A:1711:PHE:CE1	1:A:1714:SER:HB3	2.29	0.68
1:B:2302:ALA:HB3	1:B:2304:LEU:HG	1.75	0.68
1:D:1296:THR:OG1	1:D:1297:ASN:N	2.27	0.68
1:E:1296:THR:OG1	1:E:1297:ASN:N	2.25	0.68
1:H:300:ALA:HB2	1:H:306:GLN:HE21	1.58	0.68
1:I:1267:LEU:HD21	1:I:1275:SER:HB2	1.76	0.68
1:A:2512:ARG:HB3	1:B:2460:PHE:CE1	2.28	0.68
1:B:193:ARG:HG2	1:B:250:ILE:HD11	1.74	0.68
1:E:2046:ARG:NH2	1:E:2251:TYR:OH	2.27	0.68
1:F:1093:VAL:H	1:F:1594:GLN:HE22	1.40	0.68
1:J:81:ALA:H	1:J:1816:TRP:HH2	1.41	0.68
1:A:1868:TYR:CD2	1:A:1976:ILE:HG12	2.29	0.68
1:B:147:SER:HA	1:B:1906:ARG:HE	1.57	0.68
1:C:1284:ASN:O	1:C:1287:ARG:HG2	1.94	0.68
1:H:2027:ARG:NH2	1:H:2318:GLU:OE1	2.27	0.68
1:C:1295:ASP:H	1:C:1301:ARG:HG3	1.58	0.68
1:D:1122:TYR:CE2	1:D:1146:LYS:HG2	2.27	0.68
1:E:1151:ILE:HG22	1:E:1153:PRO:HD3	1.75	0.68
1:D:2073:LYS:NZ	1:E:2218:GLU:OE2	2.21	0.68

*Continued on next page...*



*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:771:ILE:HD11	1:I:804:LEU:HB3	1.75	0.68
1:A:1633:GLN:HB3	1:A:1755:SER:HB2	1.75	0.68
1:B:1496:ALA:HA	1:B:1514:ASP:HB2	1.76	0.68
1:E:962:LYS:NZ	1:E:1398:SER:O	2.27	0.68
1:G:42:TRP:HH2	1:G:1321:ASP:HB2	1.58	0.68
1:G:1711:PHE:CE1	1:G:1714:SER:HB3	2.28	0.68
1:J:353:TYR:CD2	1:J:397:LEU:HD12	2.29	0.68
1:B:73:GLN:NE2	1:B:1952:ILE:HG23	2.09	0.68
1:B:2029:MET:HG3	1:B:2272:ARG:HG3	1.75	0.68
1:B:521:THR:HG23	1:B:522:PRO:HD3	1.73	0.68
1:D:237:LEU:HB2	1:D:479:PHE:HB2	1.74	0.68
1:G:197:ALA:HB3	1:G:948:THR:HG21	1.75	0.68
1:A:600:LEU:HD21	1:A:608:LEU:HD12	1.74	0.68
1:B:2018:ARG:NH2	1:B:2468:LYS:O	2.26	0.68
1:B:498:LEU:HD21	1:B:597:ILE:HD13	1.74	0.68
1:C:414:LEU:HD12	1:C:416:SER:H	1.58	0.68
1:H:1291:TYR:O	1:H:1292:GLN:HG2	1.94	0.68
1:H:1777:MET:HE1	1:H:1852:THR:HG23	1.76	0.68
1:H:2095:ARG:HD3	1:I:2198:ASN:HD21	1.58	0.68
1:A:789:ALA:O	1:A:790:THR:HG22	1.94	0.67
1:B:247:LEU:O	1:B:251:LEU:HG	1.94	0.67
1:G:578:ILE:HG22	1:G:580:ASN:H	1.59	0.67
1:A:1139:ASN:ND2	1:A:1829:SER:O	2.27	0.67
1:B:998:ASN:OD1	1:B:1026:LYS:NZ	2.26	0.67
1:B:2087:LYS:HD3	1:C:2204:LYS:HB3	1.75	0.67
1:C:2512:ARG:HB3	1:D:2460:PHE:CE1	2.29	0.67
1:D:71:ASN:ND2	1:D:1040:TYR:OH	2.27	0.67
1:D:142:ARG:HD2	1:D:971:LEU:O	1.94	0.67
1:E:170:LEU:HD13	1:E:182:TYR:HD2	1.59	0.67
1:F:2064:ILE:HG21	1:F:2231:GLN:HB2	1.75	0.67
1:G:2006:GLY:HA3	1:G:2008:LYS:HE2	1.76	0.67
1:G:2422:LEU:H	1:G:2503:THR:HG21	1.60	0.67
1:H:1021:TRP:HA	1:H:1025:ASN:HB2	1.76	0.67
1:H:2244:LYS:O	1:H:2247:ASN:ND2	2.26	0.67
1:J:15:GLN:HB3	1:J:16:CYS:HB2	1.76	0.67
1:J:2106:ASN:HB2	1:J:2189:ARG:NH1	2.10	0.67
1:E:2398:ILE:HB	1:E:2477:ILE:HG21	1.76	0.67
1:F:1296:THR:OG1	1:F:1297:ASN:N	2.28	0.67
1:F:2008:LYS:NZ	1:F:2266:TYR:OH	2.26	0.67
1:H:414:LEU:HD12	1:H:416:SER:H	1.59	0.67
1:I:2018:ARG:NH1	1:I:2473:GLU:OE2	2.28	0.67

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:1750:LEU:HB3	1:J:1753:ILE:HD12	1.75	0.67
1:A:2393:PHE:HE1	1:A:2482:LEU:HB2	1.60	0.67
1:C:1233:GLY:HA3	1:C:1250:TYR:HB2	1.76	0.67
1:B:2316:GLN:HG2	1:C:2268:LEU:HD11	1.76	0.67
1:E:600:LEU:HD21	1:E:608:LEU:HD12	1.75	0.67
1:I:1153:PRO:HB3	1:I:1171:TRP:HB2	1.76	0.67
1:I:351:GLU:OE1	1:I:398:ASN:ND2	2.27	0.67
1:F:1250:TYR:CE2	1:F:1294:PHE:HB3	2.27	0.67
1:F:654:MET:HE3	1:F:765:VAL:HG22	1.77	0.67
1:B:662:THR:H	1:B:753:VAL:HG11	1.58	0.67
1:D:2512:ARG:HB3	1:E:2460:PHE:CE1	2.29	0.67
1:J:1213:ILE:HD13	1:J:1273:MET:HG3	1.77	0.67
1:J:1509:GLN:HE22	1:J:1538:ASP:H	1.42	0.67
1:J:497:ILE:HD13	1:J:589:TYR:CD2	2.30	0.67
1:A:521:THR:HG23	1:A:522:PRO:HD3	1.77	0.67
1:C:1293:GLN:O	1:C:1301:ARG:HB3	1.94	0.67
1:C:1868:TYR:CD2	1:C:1976:ILE:HG12	2.30	0.67
1:D:814:LEU:HD13	1:D:821:VAL:HG21	1.76	0.67
1:E:1172:LEU:HD11	1:E:1221:ILE:HD11	1.77	0.67
1:I:1291:TYR:O	1:I:1292:GLN:HG2	1.95	0.67
1:I:962:LYS:NZ	1:I:1398:SER:O	2.27	0.67
1:J:1130:LYS:HB2	1:J:1140:ALA:HB2	1.75	0.67
1:I:892:GLN:HE22	1:J:541:GLY:C	1.97	0.67
1:A:414:LEU:HD12	1:A:416:SER:H	1.59	0.67
1:D:654:MET:HE3	1:D:765:VAL:HG22	1.76	0.67
1:E:1462:ASN:O	1:E:1462:ASN:ND2	2.28	0.67
1:E:771:ILE:HD11	1:E:804:LEU:HB3	1.77	0.67
1:H:488:TYR:CZ	1:H:597:ILE:HD12	2.30	0.67
1:J:2410:ARG:HG3	1:J:2515:ILE:HG12	1.77	0.67
1:C:42:TRP:CH2	1:C:1321:ASP:HB2	2.29	0.67
1:E:1141:TRP:CD1	1:E:1763:ALA:HA	2.30	0.67
1:F:340:GLN:HA	1:F:360:LYS:HB3	1.76	0.67
1:I:578:ILE:HG22	1:I:580:ASN:H	1.60	0.67
1:A:1333:TYR:HD2	1:A:1358:ARG:HD3	1.60	0.67
1:A:2027:ARG:NH2	1:A:2318:GLU:OE1	2.28	0.67
1:A:331:THR:HB	1:A:427:THR:HB	1.77	0.67
1:D:464:VAL:HG21	1:D:477:LYS:HD2	1.76	0.67
1:E:488:TYR:CZ	1:E:597:ILE:HD12	2.29	0.67
1:G:1411:SER:HB2	1:G:1419:GLN:HA	1.77	0.67
1:A:1213:ILE:HD13	1:A:1273:MET:HG3	1.77	0.66
1:E:67:LEU:O	1:E:103:TYR:OH	2.13	0.66

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:598:HIS:HB3	1:J:638:THR:HG21	1.77	0.66
1:A:1122:TYR:CE2	1:A:1146:LYS:HG2	2.30	0.66
1:C:670:LEU:HB2	1:C:699:THR:HG21	1.77	0.66
1:A:1650:TYR:CE1	1:A:1654:THR:HA	2.30	0.66
1:B:654:MET:O	1:B:796:HIS:NE2	2.27	0.66
1:C:2410:ARG:HG3	1:C:2515:ILE:HG12	1.77	0.66
1:E:2433:LEU:HD22	1:E:2482:LEU:HD21	1.78	0.66
1:G:2329:LEU:HB2	1:G:2515:ILE:HB	1.78	0.66
1:I:1122:TYR:CE2	1:I:1146:LYS:HG2	2.29	0.66
1:J:414:LEU:HD12	1:J:416:SER:H	1.58	0.66
1:D:405:PRO:HB2	1:D:425:LYS:HE2	1.77	0.66
1:D:471:ASN:OD1	1:D:472:THR:N	2.29	0.66
1:E:2273:CYS:HB3	1:E:2292:ILE:HD13	1.78	0.66
1:E:612:VAL:HG22	1:E:637:ILE:HD12	1.78	0.66
1:H:2442:ALA:HB3	1:H:2445:CYS:HB2	1.77	0.66
1:C:1857:LEU:HD11	1:C:1890:LEU:HD21	1.77	0.66
1:D:1220:LYS:HG2	1:D:1265:GLN:HB3	1.78	0.66
1:E:1559:ALA:HB2	1:E:1565:LEU:HD21	1.76	0.66
1:F:1517:VAL:HG11	1:F:1520:GLN:HB3	1.77	0.66
1:F:312:GLN:OE1	1:F:329:ARG:NH1	2.29	0.66
1:H:1649:PRO:HB3	1:H:1684:THR:HA	1.76	0.66
1:B:1655:HIS:NE2	1:B:1929:ASN:O	2.29	0.66
1:B:2016:LEU:HD13	1:B:2468:LYS:HD3	1.78	0.66
1:B:2338:ALA:HB2	1:B:2506:ASP:HB3	1.78	0.66
1:B:641:LEU:HD21	1:B:651:LEU:HD22	1.78	0.66
1:H:1710:THR:HG23	1:H:1715:PRO:HA	1.76	0.66
1:I:2442:ALA:HB3	1:I:2445:CYS:HB2	1.78	0.66
1:J:789:ALA:O	1:J:790:THR:HG22	1.95	0.66
1:A:1101:ILE:HD11	1:A:1311:GLU:HB2	1.77	0.66
1:C:905:SER:HB2	1:C:910:PRO:HD3	1.78	0.66
1:D:2253:TRP:HA	1:E:698:ALA:HB1	1.78	0.66
1:D:789:ALA:O	1:D:790:THR:HG22	1.96	0.66
1:E:1253:GLN:HB3	1:E:1296:THR:HA	1.77	0.66
1:E:2410:ARG:HG3	1:E:2515:ILE:HG12	1.76	0.66
1:E:553:ARG:NH2	1:E:556:ASN:OD1	2.28	0.66
1:F:1002:GLU:HG2	1:J:1802:PRO:HB2	1.76	0.66
1:J:1459:ASP:HB3	1:J:1462:ASN:HB3	1.77	0.66
1:F:1166:ARG:HB2	1:J:1614:VAL:HG11	1.78	0.66
1:J:75:GLN:HE22	1:J:1895:TYR:HE2	1.43	0.66
1:A:142:ARG:NH1	1:A:144:ASP:OD2	2.29	0.66
1:B:1639:LYS:HG2	1:B:1694:LEU:HB2	1.77	0.66

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2393:PHE:CE1	1:B:2482:LEU:HB2	2.31	0.66
1:C:2403:PRO:HB2	1:D:2382:ASP:HB3	1.78	0.66
1:F:641:LEU:HD21	1:F:651:LEU:HD22	1.77	0.66
1:G:1868:TYR:CD2	1:G:1976:ILE:HG12	2.31	0.66
1:H:1502:VAL:HG11	1:H:1537:ILE:HD13	1.76	0.66
1:H:2393:PHE:HE1	1:H:2482:LEU:HB2	1.61	0.66
1:I:1899:SER:HG	1:J:301:SER:HG	1.44	0.66
1:J:521:THR:HG23	1:J:522:PRO:HD3	1.77	0.66
1:J:488:TYR:CZ	1:J:597:ILE:HD12	2.30	0.66
1:A:1254:ASP:C	1:A:1256:LEU:H	1.99	0.66
1:A:81:ALA:H	1:A:1816:TRP:HH2	1.42	0.66
1:B:1284:ASN:O	1:B:1287:ARG:HG2	1.96	0.66
1:C:2095:ARG:HD3	1:D:2198:ASN:HD21	1.61	0.66
1:F:1711:PHE:CE1	1:F:1714:SER:HB3	2.30	0.66
1:G:96:PHE:HA	1:G:1944:LEU:HD13	1.78	0.66
1:A:1384:LYS:O	1:A:1410:TYR:HB2	1.95	0.66
1:C:461:VAL:HG22	1:C:474:VAL:HG11	1.77	0.66
1:C:789:ALA:O	1:C:790:THR:HG22	1.96	0.66
1:F:331:THR:HB	1:F:427:THR:HB	1.78	0.66
1:H:654:MET:O	1:H:796:HIS:NE2	2.28	0.66
1:B:1649:PRO:HB3	1:B:1683:ASP:HA	1.77	0.65
1:D:830:LEU:HD21	1:D:835:LEU:HD12	1.79	0.65
1:E:2377:PHE:HE1	1:E:2387:LEU:HD12	1.61	0.65
1:E:497:ILE:HD13	1:E:589:TYR:HD2	1.61	0.65
1:F:1012:VAL:HG13	1:F:1015:ARG:HD2	1.78	0.65
1:F:1797:LYS:O	1:F:1805:TYR:OH	2.14	0.65
1:G:2405:SER:OG	1:G:2406:LEU:HA	1.95	0.65
1:H:789:ALA:O	1:H:790:THR:HG22	1.96	0.65
1:I:2512:ARG:HB3	1:J:2460:PHE:CE1	2.31	0.65
1:I:844:ASN:H	1:J:564:ARG:HH22	1.42	0.65
1:J:42:TRP:HH2	1:J:1321:ASP:HB2	1.59	0.65
1:A:1092:LYS:HE3	1:A:1588:HIS:CD2	2.31	0.65
1:A:193:ARG:HG2	1:A:250:ILE:HD11	1.78	0.65
1:A:370:ILE:HG12	1:A:410:LEU:HD22	1.77	0.65
1:E:1499:GLN:HB2	1:E:1556:THR:HG23	1.79	0.65
1:G:2448:LEU:HB2	1:G:2472:PHE:HE1	1.60	0.65
1:G:370:ILE:HD12	1:G:379:VAL:HB	1.78	0.65
1:H:255:ILE:HD12	1:H:439:LYS:HG3	1.78	0.65
1:J:2336:SER:HB2	1:J:2506:ASP:OD1	1.97	0.65
1:J:471:ASN:OD1	1:J:472:THR:N	2.29	0.65
1:A:1279:THR:HG23	1:A:1282:GLN:H	1.61	0.65

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1098:HIS:HE1	1:B:1103:ASN:HA	1.60	0.65
1:C:1419:GLN:HB3	1:C:1462:ASN:OD1	1.96	0.65
1:E:927:ASN:OD1	1:E:930:GLN:NE2	2.26	0.65
1:G:461:VAL:HG22	1:G:474:VAL:HG11	1.78	0.65
1:I:517:ARG:O	1:I:521:THR:OG1	2.14	0.65
1:J:1093:VAL:H	1:J:1594:GLN:HE22	1.43	0.65
1:A:2029:MET:HG3	1:A:2272:ARG:HG3	1.78	0.65
1:A:2106:ASN:ND2	1:A:2189:ARG:HB2	2.11	0.65
1:B:1117:ASP:OD1	1:B:1118:ALA:N	2.29	0.65
1:C:965:ASP:OD2	1:C:976:GLN:NE2	2.30	0.65
1:E:670:LEU:HB2	1:E:699:THR:HG21	1.78	0.65
1:I:1104:ASP:HA	1:I:1598:TRP:HZ2	1.61	0.65
1:J:1225:LYS:O	1:J:1230:ARG:NH1	2.22	0.65
1:J:1719:THR:HG23	1:J:1721:TRP:HB2	1.78	0.65
1:A:90:ILE:HA	1:B:1452:ILE:HD12	1.78	0.65
1:D:2364:GLY:HA2	1:D:2377:PHE:CE2	2.30	0.65
1:E:947:SER:HB2	1:E:975:ASN:HD22	1.62	0.65
1:F:1711:PHE:HE1	1:F:1714:SER:HB3	1.62	0.65
1:I:962:LYS:HB2	1:I:1401:LYS:HE2	1.79	0.65
1:C:314:ILE:HD13	1:C:329:ARG:HG3	1.78	0.65
1:D:2018:ARG:NH2	1:D:2468:LYS:O	2.28	0.65
1:A:299:LYS:HA	1:E:1898:LEU:HD12	1.79	0.65
1:B:2393:PHE:HE1	1:B:2482:LEU:HB2	1.61	0.65
1:B:471:ASN:OD1	1:B:472:THR:N	2.30	0.65
1:C:124:ARG:HB2	1:C:1911:ALA:HB1	1.77	0.65
1:C:471:ASN:OD1	1:C:472:THR:N	2.30	0.65
1:F:1384:LYS:O	1:F:1410:TYR:HB2	1.96	0.65
1:H:1896:LEU:HD21	1:H:1952:ILE:HD11	1.78	0.65
1:H:2348:ASN:O	1:H:2350:PRO:HD3	1.95	0.65
1:H:271:ILE:HG23	1:H:952:ARG:HH22	1.62	0.65
1:I:1868:TYR:CD2	1:I:1976:ILE:HG12	2.32	0.65
1:J:927:ASN:OD1	1:J:930:GLN:NE2	2.21	0.65
1:A:1400:ASN:ND2	1:A:1478:GLY:O	2.30	0.65
1:C:90:ILE:HA	1:D:1452:ILE:HD12	1.78	0.65
1:D:1658:GLU:HB3	1:D:1712:LYS:HB3	1.77	0.65
1:H:1172:LEU:HD21	1:H:1196:TYR:HB3	1.79	0.65
1:H:1254:ASP:C	1:H:1256:LEU:H	2.00	0.65
1:A:1220:LYS:HG2	1:A:1265:GLN:HB3	1.79	0.65
1:A:1797:LYS:HE3	1:A:1801:SER:HB2	1.77	0.65
1:B:456:ILE:HG23	1:B:496:LEU:HD11	1.78	0.65
1:C:90:ILE:HG12	1:D:1452:ILE:HB	1.79	0.65

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:176:GLU:HG2	1:C:954:VAL:HG22	1.78	0.65
1:E:1719:THR:HG23	1:E:1721:TRP:HB2	1.77	0.65
1:F:1254:ASP:C	1:F:1256:LEU:H	1.99	0.65
1:I:1394:ASN:O	1:I:1398:SER:OG	2.14	0.65
1:J:211:ILE:HG21	1:J:239:ILE:HD13	1.78	0.65
1:C:1250:TYR:CE2	1:C:1294:PHE:HB3	2.31	0.65
1:G:1093:VAL:HG11	1:G:1110:PHE:HD2	1.62	0.65
1:G:1459:ASP:HB3	1:G:1462:ASN:HB3	1.79	0.65
1:H:2364:GLY:HA2	1:H:2377:PHE:HE2	1.61	0.65
1:H:471:ASN:OD1	1:H:472:THR:N	2.30	0.65
1:I:141:ARG:NH1	1:I:970:TYR:O	2.29	0.65
1:J:1651:ASN:HB3	1:J:1652:LEU:HA	1.79	0.65
1:A:2106:ASN:HB2	1:A:2189:ARG:NH1	2.12	0.64
1:B:1381:LEU:HB3	1:B:1523:PRO:HB2	1.79	0.64
1:B:620:SER:OG	1:B:621:ALA:N	2.30	0.64
1:D:2100:GLY:HA2	1:D:2196:ARG:HD3	1.78	0.64
1:F:170:LEU:HD13	1:F:182:TYR:HD2	1.61	0.64
1:A:1179:LYS:HE3	1:A:1180:GLN:HG2	1.79	0.64
1:A:1498:VAL:HG21	1:A:1530:TYR:HE2	1.60	0.64
1:E:1597:GLN:HG2	1:E:1602:ARG:HG2	1.78	0.64
1:F:1505:GLY:H	1:F:1542:LEU:HB2	1.61	0.64
1:H:2018:ARG:NH2	1:H:2468:LYS:O	2.31	0.64
1:I:1225:LYS:HE3	1:I:1252:GLN:HG2	1.78	0.64
1:F:2268:LEU:HD11	1:J:2316:GLN:HG2	1.78	0.64
1:G:1255:THR:HA	1:G:1296:THR:HG21	1.79	0.64
1:G:1653:SER:H	1:G:1713:LYS:HE3	1.61	0.64
1:I:614:GLU:HG3	1:I:630:LEU:HG	1.78	0.64
1:B:2512:ARG:HB3	1:C:2460:PHE:CE1	2.32	0.64
1:C:1254:ASP:C	1:C:1256:LEU:H	2.01	0.64
1:D:1294:PHE:HA	1:D:1301:ARG:HB2	1.79	0.64
1:E:147:SER:HA	1:E:1906:ARG:HE	1.63	0.64
1:E:2273:CYS:HB3	1:E:2292:ILE:CD1	2.27	0.64
1:F:1719:THR:HG23	1:F:1721:TRP:HB2	1.78	0.64
1:G:1426:ARG:NH1	1:G:1428:THR:OG1	2.30	0.64
1:H:1802:PRO:HB2	1:I:1002:GLU:HG2	1.79	0.64
1:H:1868:TYR:CD2	1:H:1976:ILE:HG12	2.33	0.64
1:B:2018:ARG:NH1	1:B:2473:GLU:OE2	2.30	0.64
1:D:211:ILE:HG21	1:D:239:ILE:HD13	1.80	0.64
1:H:1225:LYS:HE3	1:H:1252:GLN:HG2	1.79	0.64
1:H:1865:ASP:OD1	1:H:1966:ARG:NH1	2.30	0.64
1:A:135:VAL:HG21	1:A:958:ALA:HB3	1.79	0.64

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:370:ILE:HG12	1:C:410:LEU:HD22	1.80	0.64
1:D:1890:LEU:HB3	1:D:1960:TRP:CH2	2.32	0.64
1:E:962:LYS:NZ	1:E:1398:SER:OG	2.25	0.64
1:E:135:VAL:HG21	1:E:958:ALA:HB3	1.80	0.64
1:I:2106:ASN:ND2	1:I:2189:ARG:HB2	2.12	0.64
1:J:2393:PHE:HB3	1:J:2477:ILE:O	1.98	0.64
1:J:450:THR:HG21	1:J:478:VAL:HG11	1.80	0.64
1:A:2009:LEU:HD22	1:A:2294:PRO:HD3	1.80	0.64
1:B:1630:GLN:HE22	1:B:1818:VAL:HA	1.61	0.64
1:C:398:ASN:OD1	1:C:399:THR:N	2.30	0.64
1:G:1170:LEU:HD12	1:G:1236:CYS:SG	2.37	0.64
1:H:1268:TYR:OH	1:H:1286:TYR:OH	2.08	0.64
1:H:2122:ALA:HB1	1:H:2175:GLU:HG2	1.79	0.64
1:I:620:SER:OG	1:I:621:ALA:N	2.31	0.64
1:C:1636:GLN:O	1:C:1637:LEU:HG	1.97	0.64
1:F:141:ARG:NH1	1:F:970:TYR:O	2.31	0.64
1:G:1254:ASP:O	1:G:1256:LEU:N	2.31	0.64
1:F:1810:GLN:NE2	1:G:1321:ASP:HA	2.12	0.64
1:G:471:ASN:OD1	1:G:472:THR:N	2.31	0.64
1:I:1685:ASN:ND2	1:J:1524:SER:OG	2.30	0.64
1:A:2102:LEU:HD13	1:A:2192:TRP:CZ2	2.33	0.64
1:A:2273:CYS:HB3	1:A:2292:ILE:HD13	1.80	0.64
1:B:135:VAL:HG21	1:B:958:ALA:HB3	1.79	0.64
1:C:1704:HIS:CD2	1:C:1726:VAL:HG23	2.33	0.64
1:C:2433:LEU:HD22	1:C:2482:LEU:HD21	1.78	0.64
1:D:998:ASN:OD1	1:D:1026:LYS:NZ	2.31	0.64
1:D:994:GLN:NE2	1:D:1026:LYS:O	2.30	0.64
1:D:863:THR:OG1	1:D:866:ASN:ND2	2.30	0.64
1:E:42:TRP:HH2	1:E:1321:ASP:HB2	1.62	0.64
1:E:952:ARG:HG3	1:E:953:GLN:HG3	1.78	0.64
1:F:1604:ARG:NH1	1:F:1634:GLU:HB3	2.13	0.64
1:G:1650:TYR:HE1	1:G:1654:THR:HA	1.62	0.64
1:I:90:ILE:HD11	1:J:1453:GLY:H	1.63	0.64
1:J:1868:TYR:OH	1:J:1974:LEU:O	2.16	0.64
1:J:67:LEU:O	1:J:103:TYR:OH	2.15	0.64
1:C:1213:ILE:HD13	1:C:1273:MET:HG3	1.80	0.64
1:C:930:GLN:HA	1:C:933:THR:HG22	1.80	0.64
1:E:1153:PRO:HB3	1:E:1171:TRP:HB2	1.80	0.64
1:G:1027:ARG:HH11	1:G:1030:THR:HG21	1.62	0.64
1:A:2442:ALA:HB3	1:A:2445:CYS:HB2	1.80	0.63
1:D:1280:PRO:O	1:D:1284:ASN:ND2	2.30	0.63

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:341:MET:SD	1:D:342:ASP:N	2.71	0.63
1:F:2095:ARG:HD3	1:G:2198:ASN:HD21	1.63	0.63
1:G:414:LEU:HD12	1:G:416:SER:H	1.62	0.63
1:H:1054:THR:OG1	1:H:1770:GLU:OE2	2.15	0.63
1:I:1660:TRP:CE2	1:I:1680:GLN:HB3	2.33	0.63
1:A:1666:LYS:HD3	1:A:1706:LYS:HD3	1.79	0.63
1:B:1098:HIS:CE1	1:B:1103:ASN:HA	2.33	0.63
1:B:2410:ARG:HG3	1:B:2515:ILE:HG12	1.80	0.63
1:B:2431:ALA:HB3	1:B:2450:VAL:HG13	1.80	0.63
1:B:789:ALA:O	1:B:790:THR:HG22	1.98	0.63
1:D:2106:ASN:HB2	1:D:2189:ARG:NH1	2.13	0.63
1:E:1260:LYS:HA	1:E:1287:ARG:HH12	1.64	0.63
1:E:1284:ASN:O	1:E:1287:ARG:HG2	1.98	0.63
1:E:141:ARG:NH1	1:E:970:TYR:O	2.32	0.63
1:E:2108:ASN:HB3	1:E:2111:GLU:HG3	1.79	0.63
1:F:844:ASN:H	1:G:564:ARG:HH22	1.45	0.63
1:B:2280:TYR:OH	1:B:2324:ARG:NH1	2.31	0.63
1:C:2393:PHE:HB3	1:C:2477:ILE:O	1.97	0.63
1:E:2253:TRP:CE3	1:E:2254:LEU:HD12	2.33	0.63
1:J:1649:PRO:HB3	1:J:1683:ASP:HA	1.79	0.63
1:J:1704:HIS:CD2	1:J:1727:ARG:H	2.16	0.63
1:C:1153:PRO:HB3	1:C:1171:TRP:HB2	1.79	0.63
1:E:2405:SER:OG	1:E:2406:LEU:HA	1.98	0.63
1:E:789:ALA:O	1:E:790:THR:HG22	1.99	0.63
1:G:2433:LEU:HB2	1:G:2448:LEU:HB3	1.79	0.63
1:G:520:ASN:HD21	1:G:528:TYR:HB2	1.64	0.63
1:F:892:GLN:HE22	1:G:541:GLY:C	2.02	0.63
1:H:1505:GLY:H	1:H:1542:LEU:HB2	1.63	0.63
1:H:994:GLN:NE2	1:H:1026:LYS:O	2.32	0.63
1:I:2068:LEU:HD12	1:I:2227:LEU:HB3	1.79	0.63
1:J:2445:CYS:HB3	1:J:2471:PRO:HA	1.79	0.63
1:A:2460:PHE:CE1	1:E:2512:ARG:HB3	2.34	0.63
1:A:464:VAL:HG21	1:A:477:LYS:HD2	1.80	0.63
1:A:771:ILE:HD11	1:A:804:LEU:HB3	1.80	0.63
1:C:863:THR:OG1	1:C:866:ASN:OD1	2.15	0.63
1:E:2497:GLN:HG2	1:E:2500:MET:SD	2.38	0.63
1:H:1719:THR:HG23	1:H:1721:TRP:HB2	1.78	0.63
1:H:2046:ARG:NH2	1:H:2251:TYR:OH	2.31	0.63
1:A:2108:ASN:HB3	1:A:2111:GLU:HG3	1.81	0.63
1:B:1599:GLN:HB3	1:B:1674:HIS:CE1	2.33	0.63
1:C:1892:ASP:OD2	1:D:1401:LYS:NZ	2.22	0.63

*Continued on next page...*



*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:314:ILE:HD13	1:D:329:ARG:HG3	1.79	0.63
1:C:2253:TRP:HA	1:D:698:ALA:HB1	1.80	0.63
1:F:1607:THR:HG22	1:F:1764:ASN:HD22	1.64	0.63
1:F:789:ALA:O	1:F:790:THR:HG22	1.99	0.63
1:G:42:TRP:CH2	1:G:1321:ASP:HB2	2.33	0.63
1:I:2338:ALA:HB2	1:I:2506:ASP:HB3	1.80	0.63
1:I:300:ALA:HB2	1:I:306:GLN:HE21	1.64	0.63
1:J:141:ARG:NH1	1:J:970:TYR:O	2.31	0.63
1:A:456:ILE:HG23	1:A:496:LEU:HD11	1.79	0.63
1:A:493:GLU:OE1	1:A:517:ARG:NH1	2.32	0.63
1:C:1170:LEU:HD12	1:C:1236:CYS:SG	2.38	0.63
1:C:1171:TRP:NE1	1:C:1173:GLU:OE1	2.31	0.63
1:C:1760:PHE:CG	1:C:1820:PRO:HG3	2.34	0.63
1:E:1651:ASN:HB3	1:E:1652:LEU:HA	1.79	0.63
1:G:1498:VAL:HG21	1:G:1530:TYR:HE2	1.63	0.63
1:H:337:ASN:HB3	1:H:339:TYR:O	1.98	0.63
1:J:1250:TYR:HD2	1:J:1294:PHE:HD2	1.46	0.63
1:A:1642:TYR:HE2	1:A:1691:PHE:HB2	1.63	0.63
1:C:1172:LEU:HD11	1:C:1221:ILE:HD11	1.79	0.63
1:D:1614:VAL:HG11	1:E:1166:ARG:HB2	1.80	0.63
1:D:1642:TYR:OH	1:D:1756:GLU:HG3	1.99	0.63
1:F:2203:LEU:O	1:F:2207:ASP:HB2	1.99	0.63
1:I:1233:GLY:HA3	1:I:1250:TYR:HB2	1.80	0.63
1:A:1163:TYR:CD2	1:A:1245:LEU:HB3	2.34	0.63
1:A:471:ASN:OD1	1:A:472:THR:N	2.32	0.63
1:B:1254:ASP:C	1:B:1256:LEU:H	2.02	0.63
1:B:1650:TYR:OH	1:B:1659:ARG:NE	2.31	0.63
1:B:464:VAL:HG22	1:B:477:LYS:HD2	1.80	0.63
1:C:1400:ASN:HB3	1:C:1402:LEU:H	1.64	0.63
1:G:1122:TYR:HE2	1:G:1146:LYS:HG2	1.63	0.63
1:G:2122:ALA:HB1	1:G:2175:GLU:HG2	1.80	0.63
1:F:2305:LEU:HD21	1:G:2258:LEU:HD12	1.79	0.63
1:H:1660:TRP:CE2	1:H:1680:GLN:HB3	2.33	0.63
1:H:600:LEU:HD21	1:H:608:LEU:HD12	1.81	0.63
1:B:1651:ASN:OD1	1:B:1652:LEU:HA	1.99	0.62
1:B:2433:LEU:HD22	1:B:2482:LEU:HD21	1.81	0.62
1:C:1865:ASP:OD1	1:C:1966:ARG:NH1	2.32	0.62
1:C:2424:GLY:O	1:C:2427:GLN:HB2	1.99	0.62
1:A:564:ARG:HH12	1:E:844:ASN:HB2	1.64	0.62
1:A:670:LEU:HB2	1:A:699:THR:HG21	1.80	0.62
1:B:1408:TYR:CG	1:B:1467:LEU:HD12	2.34	0.62

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1327:TYR:CE2	1:E:1487:VAL:HG11	2.34	0.62
1:E:2393:PHE:CE1	1:E:2482:LEU:HB2	2.34	0.62
1:G:2512:ARG:HB3	1:H:2460:PHE:CE1	2.33	0.62
1:H:1390:SER:HB3	1:H:1484:SER:HB2	1.80	0.62
1:I:1704:HIS:CD2	1:I:1727:ARG:H	2.17	0.62
1:I:194:PRO:O	1:I:285:TYR:OH	2.13	0.62
1:I:318:VAL:HG12	1:I:325:VAL:HA	1.81	0.62
1:I:471:ASN:OD1	1:I:472:THR:N	2.32	0.62
1:J:1310:TYR:HE1	1:J:1576:LEU:HD13	1.63	0.62
1:A:2410:ARG:HG3	1:A:2515:ILE:HG12	1.81	0.62
1:A:300:ALA:HB2	1:A:306:GLN:HE21	1.64	0.62
1:C:1704:HIS:HD2	1:C:1726:VAL:HG23	1.63	0.62
1:C:2122:ALA:HB1	1:C:2175:GLU:HG2	1.80	0.62
1:D:1810:GLN:HE22	1:E:1321:ASP:HA	1.64	0.62
1:D:337:ASN:HB3	1:D:339:TYR:O	1.98	0.62
1:D:210:VAL:HG11	1:D:922:LEU:HB3	1.80	0.62
1:E:1503:LYS:HB2	1:E:1552:ASP:HB2	1.82	0.62
1:E:1636:GLN:O	1:E:1637:LEU:HG	1.98	0.62
1:F:146:LYS:O	1:F:1908:ASP:HB2	1.99	0.62
1:F:2273:CYS:HB3	1:F:2292:ILE:HD13	1.81	0.62
1:G:1021:TRP:HA	1:G:1025:ASN:HB2	1.80	0.62
1:G:1633:GLN:HB3	1:G:1755:SER:HB2	1.80	0.62
1:G:789:ALA:O	1:G:790:THR:HG22	1.98	0.62
1:H:1384:LYS:O	1:H:1410:TYR:HB2	1.99	0.62
1:J:2405:SER:OG	1:J:2406:LEU:HA	1.99	0.62
1:D:1172:LEU:HD11	1:D:1221:ILE:HD11	1.80	0.62
1:G:1865:ASP:OD1	1:G:1883:TYR:OH	2.15	0.62
1:G:276:LEU:HA	1:G:281:TYR:CD2	2.35	0.62
1:H:1295:ASP:H	1:H:1301:ARG:HG3	1.65	0.62
1:J:1284:ASN:O	1:J:1287:ARG:HG2	2.00	0.62
1:F:564:ARG:HH22	1:J:844:ASN:H	1.45	0.62
1:B:670:LEU:HD11	1:B:696:ILE:HG22	1.82	0.62
1:C:984:THR:HG22	1:C:987:ALA:H	1.64	0.62
1:D:414:LEU:HD12	1:D:416:SER:H	1.64	0.62
1:E:1170:LEU:HD12	1:E:1236:CYS:SG	2.39	0.62
1:F:378:LEU:HD13	1:F:395:ILE:HG21	1.81	0.62
1:G:1587:HIS:CE1	1:G:1597:GLN:HE22	2.17	0.62
1:I:1296:THR:OG1	1:I:1297:ASN:N	2.31	0.62
1:I:725:MET:HG2	1:I:755:TYR:HB2	1.79	0.62
1:B:99:ARG:HH11	1:B:1947:LEU:HB3	1.65	0.62
1:E:1650:TYR:OH	1:E:1655:HIS:HB3	1.99	0.62

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:2016:LEU:HD23	1:G:2443:ASN:HB3	1.81	0.62
1:H:2360:LEU:HG	1:H:2366:GLY:HA3	1.82	0.62
1:H:402:ILE:HG23	1:H:428:VAL:HG13	1.80	0.62
1:H:67:LEU:O	1:H:103:TYR:OH	2.17	0.62
1:I:498:LEU:HD21	1:I:597:ILE:HD13	1.82	0.62
1:A:1124:ARG:NH1	1:A:1764:ASN:OD1	2.32	0.62
1:A:598:HIS:HB3	1:A:638:THR:HG21	1.81	0.62
1:G:1012:VAL:HG13	1:G:1015:ARG:HD2	1.79	0.62
1:G:1398:SER:HB3	1:G:1480:ALA:HB3	1.80	0.62
1:A:181:ASN:OD1	1:A:182:TYR:N	2.33	0.62
1:B:2100:GLY:HA2	1:B:2196:ARG:HD3	1.82	0.62
1:C:1630:GLN:HG2	1:C:1819:ARG:HB3	1.82	0.62
1:D:2046:ARG:NH2	1:D:2251:TYR:OH	2.33	0.62
1:F:2364:GLY:HA2	1:F:2377:PHE:CE2	2.34	0.62
1:J:108:THR:HG22	1:J:152:GLN:HE22	1.64	0.62
1:J:2027:ARG:NH2	1:J:2318:GLU:OE1	2.33	0.62
1:A:243:ILE:HG23	1:A:247:LEU:HD22	1.81	0.62
1:A:271:ILE:HG23	1:A:952:ARG:HH22	1.64	0.62
1:C:1805:TYR:OH	1:C:1817:ASN:HB2	2.00	0.62
1:D:1256:LEU:HD23	1:D:1257:ASP:O	1.99	0.62
1:D:1630:GLN:HE22	1:D:1818:VAL:HA	1.64	0.62
1:G:1213:ILE:HD13	1:G:1273:MET:HG3	1.81	0.62
1:H:620:SER:OG	1:H:621:ALA:N	2.32	0.62
1:I:1138:ALA:HA	1:I:1141:TRP:HD1	1.65	0.62
1:I:1384:LYS:O	1:I:1410:TYR:HB2	2.00	0.62
1:I:1351:ILE:HG23	1:I:1537:ILE:HB	1.81	0.62
1:I:255:ILE:HD12	1:I:439:LYS:HG3	1.80	0.62
1:J:1310:TYR:CE1	1:J:1576:LEU:HD13	2.35	0.62
1:J:2329:LEU:HB2	1:J:2515:ILE:HB	1.82	0.62
1:B:1660:TRP:CE2	1:B:1680:GLN:HB3	2.35	0.62
1:B:2442:ALA:HB3	1:B:2445:CYS:HB2	1.81	0.62
1:D:2403:PRO:HB2	1:E:2382:ASP:HB3	1.81	0.62
1:D:962:LYS:NZ	1:D:1398:SER:O	2.33	0.62
1:E:1291:TYR:O	1:E:1292:GLN:HG2	1.99	0.62
1:E:1357:LEU:HD12	1:E:1555:PHE:HD2	1.64	0.62
1:E:42:TRP:CH2	1:E:1321:ASP:HB2	2.35	0.62
1:F:2241:LEU:HD13	1:F:2244:LYS:HD3	1.80	0.62
1:G:1233:GLY:HA3	1:G:1250:TYR:HB2	1.82	0.62
1:H:378:LEU:HD13	1:H:395:ILE:HD13	1.82	0.62
1:I:2405:SER:OG	1:I:2406:LEU:HA	2.00	0.62
1:J:1170:LEU:HD12	1:J:1236:CYS:SG	2.40	0.62

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:158:GLU:HB3	1:J:982:LYS:HE2	1.81	0.62
1:A:341:MET:SD	1:A:342:ASP:N	2.73	0.61
1:C:2108:ASN:HB3	1:C:2111:GLU:HG3	1.80	0.61
1:D:1021:TRP:HA	1:D:1025:ASN:HB2	1.80	0.61
1:E:1711:PHE:CE1	1:E:1714:SER:HB3	2.34	0.61
1:E:1794:ARG:NH2	1:E:1798:TYR:OH	2.33	0.61
1:F:1426:ARG:NH1	1:F:1428:THR:OG1	2.31	0.61
1:G:1250:TYR:CE2	1:G:1294:PHE:HB3	2.35	0.61
1:G:147:SER:HA	1:G:1906:ARG:HE	1.64	0.61
1:J:1381:LEU:HB3	1:J:1523:PRO:HB2	1.81	0.61
1:J:135:VAL:HG21	1:J:958:ALA:HB3	1.81	0.61
1:A:1295:ASP:H	1:A:1301:ARG:HG3	1.65	0.61
1:A:2106:ASN:OD1	1:A:2107:ILE:HG13	1.99	0.61
1:C:1299:VAL:HG21	1:C:1301:ARG:HH21	1.65	0.61
1:D:1329:LEU:HD12	1:D:1368:LYS:HG3	1.82	0.61
1:D:2257:ARG:O	1:D:2261:ILE:HG22	2.01	0.61
1:E:1616:ARG:NH2	1:E:1628:GLU:HB2	2.14	0.61
1:E:1896:LEU:HD21	1:E:1952:ILE:HD11	1.81	0.61
1:G:1122:TYR:HB3	1:G:1144:TRP:HB3	1.82	0.61
1:G:1295:ASP:H	1:G:1301:ARG:HG3	1.65	0.61
1:H:370:ILE:HG12	1:H:410:LEU:HD22	1.82	0.61
1:H:276:LEU:HD23	1:H:437:LEU:HD13	1.81	0.61
1:A:964:ARG:HD2	1:A:975:ASN:ND2	2.15	0.61
1:C:71:ASN:ND2	1:C:1040:TYR:OH	2.33	0.61
1:E:1279:THR:HG23	1:E:1282:GLN:H	1.65	0.61
1:E:2106:ASN:OD1	1:E:2107:ILE:HG13	2.00	0.61
1:F:863:THR:OG1	1:F:866:ASN:OD1	2.16	0.61
1:G:1225:LYS:O	1:G:1230:ARG:NH1	2.25	0.61
1:H:341:MET:SD	1:H:342:ASP:N	2.73	0.61
1:B:1794:ARG:NH2	1:B:1798:TYR:OH	2.33	0.61
1:D:2405:SER:OG	1:D:2406:LEU:HA	2.00	0.61
1:E:127:ARG:HA	1:E:138:LEU:HD13	1.82	0.61
1:F:1704:HIS:HD2	1:F:1726:VAL:HG23	1.65	0.61
1:F:2501:LEU:HA	1:F:2504:LEU:HD12	1.83	0.61
1:F:314:ILE:HD13	1:F:329:ARG:HG3	1.81	0.61
1:G:1172:LEU:HD21	1:G:1196:TYR:HB3	1.81	0.61
1:G:124:ARG:HB2	1:G:1911:ALA:HB1	1.83	0.61
1:I:1400:ASN:HB3	1:I:1402:LEU:H	1.65	0.61
1:J:1172:LEU:HD21	1:J:1196:TYR:HB3	1.83	0.61
1:A:378:LEU:HD13	1:A:395:ILE:HG21	1.82	0.61
1:B:453:SER:HB3	1:B:456:ILE:HG12	1.82	0.61

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1640:GLY:HA2	1:D:1691:PHE:HE1	1.65	0.61
1:D:2095:ARG:HD3	1:E:2198:ASN:HD21	1.66	0.61
1:D:2009:LEU:HD22	1:D:2294:PRO:HD3	1.83	0.61
1:E:1254:ASP:C	1:E:1256:LEU:H	2.03	0.61
1:F:2106:ASN:OD1	1:F:2107:ILE:HG13	2.00	0.61
1:G:670:LEU:HB2	1:G:699:THR:HG21	1.83	0.61
1:I:789:ALA:O	1:I:790:THR:HG22	2.00	0.61
1:J:36:VAL:HG12	1:J:40:LEU:HB2	1.82	0.61
1:J:940:GLU:HG3	1:J:979:ALA:HB2	1.82	0.61
1:B:604:GLU:HB3	1:B:648:VAL:HG21	1.83	0.61
1:C:1257:ASP:OD1	1:C:1258:SER:N	2.25	0.61
1:C:296:PHE:O	1:C:312:GLN:NE2	2.33	0.61
1:D:1498:VAL:HG21	1:D:1530:TYR:HE2	1.64	0.61
1:F:1254:ASP:O	1:F:1256:LEU:N	2.33	0.61
1:F:2433:LEU:HB2	1:F:2448:LEU:HB3	1.82	0.61
1:F:670:LEU:HB2	1:F:699:THR:HG21	1.81	0.61
1:I:1327:TYR:HE2	1:I:1487:VAL:HG11	1.65	0.61
1:E:2068:LEU:HD12	1:E:2227:LEU:HB3	1.82	0.61
1:E:73:GLN:NE2	1:E:1952:ILE:HG23	2.16	0.61
1:G:733:TRP:NE1	1:G:748:THR:HB	2.15	0.61
1:H:1459:ASP:HB3	1:H:1462:ASN:HB3	1.81	0.61
1:H:2405:SER:OG	1:H:2406:LEU:HA	2.01	0.61
1:B:1153:PRO:HB3	1:B:1171:TRP:HB2	1.82	0.61
1:C:2029:MET:HG3	1:C:2272:ARG:HG3	1.83	0.61
1:E:111:SER:HB3	1:E:114:SER:HB3	1.83	0.61
1:E:1865:ASP:OD1	1:E:1966:ARG:NH1	2.34	0.61
1:E:276:LEU:HA	1:E:281:TYR:HD2	1.65	0.61
1:F:1374:LEU:HD21	1:F:1425:HIS:HB2	1.82	0.61
1:F:598:HIS:HB3	1:F:638:THR:HG21	1.82	0.61
1:G:2463:ASP:O	1:G:2466:ASP:HB2	1.99	0.61
1:H:1254:ASP:O	1:H:1256:LEU:N	2.33	0.61
1:J:1321:ASP:HB3	1:J:1569:SER:HB3	1.82	0.61
1:F:1401:LYS:NZ	1:J:1892:ASP:OD2	2.26	0.61
1:A:1238:GLY:O	1:A:1305:ARG:HG3	2.01	0.61
1:C:1357:LEU:HB3	1:C:1530:TYR:HB2	1.83	0.61
1:C:1105:GLN:NE2	1:C:1546:ASN:O	2.29	0.61
1:D:2393:PHE:HE1	1:D:2482:LEU:HB2	1.66	0.61
1:D:2433:LEU:HB2	1:D:2448:LEU:HB3	1.83	0.61
1:D:90:ILE:HG12	1:E:1452:ILE:HB	1.82	0.61
1:H:1358:ARG:HH21	1:H:1360:ILE:HD11	1.64	0.61
1:H:2106:ASN:HB2	1:H:2189:ARG:HH11	1.63	0.61

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:28:SER:OG	1:I:31:GLU:HG3	2.01	0.61
1:J:125:GLU:HB3	1:J:1018:PHE:HE1	1.65	0.61
1:B:1737:PRO:HA	1:B:1738:LYS:C	2.21	0.61
1:F:1167:LEU:HD22	1:F:1209:TRP:HH2	1.65	0.61
1:F:1498:VAL:HG21	1:F:1530:TYR:HE2	1.65	0.61
1:F:1502:VAL:HG11	1:F:1537:ILE:HD13	1.83	0.61
1:H:2393:PHE:CE1	1:H:2482:LEU:HB2	2.36	0.61
1:I:446:LEU:HD13	1:I:457:LEU:HD22	1.83	0.61
1:J:2018:ARG:NH1	1:J:2473:GLU:OE2	2.34	0.61
1:A:1293:GLN:O	1:A:1301:ARG:HB3	2.01	0.60
1:A:1602:ARG:HD2	1:A:1693:PRO:HB3	1.82	0.60
1:B:2360:LEU:HG	1:B:2366:GLY:HA3	1.83	0.60
1:B:2111:GLU:OE1	1:C:2187:ARG:NH2	2.34	0.60
1:G:2118:ARG:NH2	1:H:2177:ASP:OD1	2.34	0.60
1:G:2364:GLY:HA2	1:G:2377:PHE:CE2	2.36	0.60
1:G:2364:GLY:HA2	1:G:2377:PHE:HE2	1.65	0.60
1:G:450:THR:HG21	1:G:478:VAL:HG11	1.83	0.60
1:J:1291:TYR:O	1:J:1292:GLN:HG2	2.01	0.60
1:J:347:PRO:HA	1:J:353:TYR:HD1	1.67	0.60
1:B:2106:ASN:ND2	1:B:2189:ARG:HH11	1.98	0.60
1:C:1639:LYS:HG2	1:C:1694:LEU:HB2	1.81	0.60
1:D:1170:LEU:HD12	1:D:1236:CYS:SG	2.41	0.60
1:G:1300:ARG:O	1:G:1585:THR:HG23	2.00	0.60
1:H:1360:ILE:HD13	1:H:1527:GLU:HA	1.84	0.60
1:I:598:HIS:HB3	1:I:638:THR:HG21	1.81	0.60
1:A:1061:LEU:HD22	1:A:1778:LEU:HD11	1.84	0.60
1:A:146:LYS:O	1:A:1908:ASP:HB2	2.01	0.60
1:A:592:LYS:NZ	1:A:596:ASP:OD2	2.32	0.60
1:A:964:ARG:HD2	1:A:975:ASN:HD21	1.65	0.60
1:C:1168:TYR:CD2	1:C:1202:HIS:HB3	2.37	0.60
1:C:1291:TYR:O	1:C:1292:GLN:HG2	2.01	0.60
1:C:458:GLU:OE1	1:C:506:ARG:NH2	2.33	0.60
1:C:620:SER:OG	1:C:621:ALA:N	2.33	0.60
1:E:2018:ARG:NH1	1:E:2473:GLU:OE2	2.33	0.60
1:A:698:ALA:HB1	1:E:2253:TRP:HA	1.83	0.60
1:I:1711:PHE:CE1	1:I:1714:SER:HB3	2.36	0.60
1:J:1475:ASP:HB2	1:J:1479:THR:HB	1.83	0.60
1:J:255:ILE:HD12	1:J:439:LYS:HG3	1.82	0.60
1:A:1159:ARG:HH12	1:A:1294:PHE:HE1	1.49	0.60
1:A:962:LYS:NZ	1:A:1398:SER:OG	2.28	0.60
1:B:1371:GLN:O	1:B:1375:MET:HG3	2.01	0.60

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1800:TRP:HB2	1:B:1816:TRP:CD1	2.36	0.60
1:C:2405:SER:OG	1:C:2406:LEU:HA	2.01	0.60
1:D:1257:ASP:OD1	1:D:1258:SER:N	2.33	0.60
1:D:1384:LYS:O	1:D:1410:TYR:HB2	2.00	0.60
1:D:2393:PHE:HB3	1:D:2477:ILE:O	2.01	0.60
1:F:1495:PRO:HB2	1:F:1514:ASP:HB3	1.83	0.60
1:G:273:PRO:HG3	1:G:434:TYR:HE2	1.66	0.60
1:G:592:LYS:NZ	1:G:596:ASP:OD2	2.34	0.60
1:G:207:VAL:HG13	1:G:922:LEU:HD12	1.83	0.60
1:H:1438:ILE:HB	1:H:1441:ALA:HB3	1.82	0.60
1:F:2258:LEU:HB2	1:J:2305:LEU:HD11	1.82	0.60
1:J:498:LEU:HD21	1:J:597:ILE:HD13	1.82	0.60
1:A:1514:ASP:OD2	1:A:1515:LYS:N	2.34	0.60
1:B:15:GLN:HB3	1:B:16:CYS:HB2	1.84	0.60
1:B:2118:ARG:NH2	1:C:2177:ASP:OD1	2.34	0.60
1:B:158:GLU:OE2	1:B:982:LYS:HE2	2.01	0.60
1:C:1459:ASP:HB3	1:C:1462:ASN:HB3	1.82	0.60
1:D:15:GLN:HB3	1:D:16:CYS:HB2	1.83	0.60
1:E:1710:THR:HG23	1:E:1715:PRO:HA	1.82	0.60
1:E:36:VAL:HG11	1:E:40:LEU:HD22	1.83	0.60
1:F:1124:ARG:NH1	1:F:1764:ASN:OD1	2.34	0.60
1:F:2122:ALA:HB1	1:F:2175:GLU:HG2	1.83	0.60
1:F:620:SER:OG	1:F:621:ALA:N	2.35	0.60
1:G:1104:ASP:HA	1:G:1598:TRP:HZ2	1.65	0.60
1:G:771:ILE:HD11	1:G:804:LEU:HD13	1.83	0.60
1:J:1168:TYR:HD2	1:J:1200:LEU:HD21	1.67	0.60
1:A:620:SER:OG	1:A:621:ALA:N	2.33	0.60
1:B:1994:ALA:HB2	1:C:2065:LEU:HD11	1.84	0.60
1:F:2039:THR:O	1:F:2043:ILE:HG12	2.01	0.60
1:F:541:GLY:HA2	1:J:892:GLN:HE21	1.66	0.60
1:G:331:THR:HB	1:G:427:THR:HB	1.84	0.60
1:H:1649:PRO:HB3	1:H:1683:ASP:HA	1.83	0.60
1:H:497:ILE:HD13	1:H:589:TYR:CD2	2.33	0.60
1:J:1328:TYR:HB2	1:J:1368:LYS:HG2	1.81	0.60
1:A:2122:ALA:HB1	1:A:2175:GLU:HG2	1.84	0.60
1:B:176:GLU:HG2	1:B:954:VAL:HG13	1.83	0.60
1:C:2431:ALA:HB3	1:C:2450:VAL:HG13	1.84	0.60
1:D:101:SER:HA	1:E:1429:THR:HG21	1.82	0.60
1:F:2405:SER:OG	1:F:2406:LEU:HA	2.00	0.60
1:G:192:PHE:CZ	1:G:194:PRO:HG2	2.36	0.60
1:J:1317:SER:HB3	1:J:1336:ASP:HB2	1.82	0.60

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:1711:PHE:CE1	1:J:1714:SER:HB3	2.37	0.60
1:A:1114:SER:OG	1:A:1120:GLU:HB2	2.01	0.60
1:A:2448:LEU:HB2	1:A:2472:PHE:HE1	1.66	0.60
1:D:300:ALA:HB2	1:D:306:GLN:HE21	1.66	0.60
1:E:1384:LYS:O	1:E:1410:TYR:HB2	2.01	0.60
1:E:247:LEU:O	1:E:251:LEU:HG	2.02	0.60
1:E:814:LEU:HD13	1:E:821:VAL:HG21	1.83	0.60
1:H:1210:ASN:ND2	1:H:1211:THR:O	2.35	0.60
1:H:498:LEU:HD21	1:H:597:ILE:HD13	1.84	0.60
1:H:725:MET:HG2	1:H:755:TYR:HB2	1.83	0.60
1:H:947:SER:HB2	1:H:975:ASN:HD22	1.67	0.60
1:I:2361:VAL:HG12	1:I:2491:MET:HB2	1.82	0.60
1:J:1296:THR:OG1	1:J:1297:ASN:N	2.32	0.60
1:A:1296:THR:OG1	1:A:1297:ASN:N	2.35	0.60
1:A:2100:GLY:HA2	1:A:2196:ARG:HD3	1.84	0.60
1:B:1380:LYS:O	1:B:1383:ASP:HB2	2.01	0.60
1:B:1741:LEU:HD23	1:B:1742:THR:H	1.67	0.60
1:C:1797:LYS:HE3	1:C:1804:GLY:HA3	1.83	0.60
1:D:402:ILE:HG23	1:D:428:VAL:HG13	1.83	0.60
1:E:1599:GLN:HB3	1:E:1674:HIS:HE1	1.65	0.60
1:E:464:VAL:HG22	1:E:477:LYS:HD2	1.83	0.60
1:G:2039:THR:O	1:G:2043:ILE:HG12	2.02	0.60
1:G:911:THR:HB	1:G:914:GLN:H	1.66	0.60
1:H:1172:LEU:HD11	1:H:1221:ILE:HD11	1.83	0.60
1:H:220:GLN:CG	1:H:886:GLN:HG3	2.29	0.60
1:I:654:MET:HE3	1:I:765:VAL:HG22	1.83	0.60
1:J:1408:TYR:CG	1:J:1467:LEU:HD12	2.37	0.60
1:I:2330:GLU:HB2	1:J:2459:GLN:HA	1.84	0.60
1:A:2414:GLN:NE2	1:A:2415:ILE:O	2.35	0.60
1:B:331:THR:HB	1:B:427:THR:HB	1.83	0.60
1:C:911:THR:HB	1:C:914:GLN:H	1.67	0.60
1:D:689:LEU:HD22	1:D:712:LEU:HB3	1.82	0.60
1:F:1459:ASP:HB3	1:F:1462:ASN:HB3	1.84	0.60
1:F:197:ALA:HB3	1:F:948:THR:HG21	1.82	0.60
1:F:193:ARG:HG2	1:F:250:ILE:HD11	1.84	0.60
1:I:1280:PRO:O	1:I:1284:ASN:ND2	2.33	0.60
1:J:1357:LEU:CD1	1:J:1555:PHE:HB3	2.31	0.60
1:J:711:VAL:HG12	1:J:759:LEU:HD22	1.84	0.60
1:J:232:HIS:HB2	1:J:903:ILE:HG12	1.82	0.60
1:A:1561:ASP:OD2	1:A:1563:ARG:NH2	2.35	0.59
1:C:2047:GLN:HE22	1:C:2255:ARG:HD2	1.65	0.59

*Continued on next page...*



*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1021:TRP:HA	1:E:1025:ASN:HB2	1.84	0.59
1:E:1380:LYS:O	1:E:1383:ASP:HB2	2.01	0.59
1:E:1423:LEU:HD23	1:E:1456:TYR:HB3	1.84	0.59
1:F:1649:PRO:HB3	1:F:1684:THR:HA	1.83	0.59
1:F:90:ILE:HG12	1:G:1452:ILE:HD12	1.84	0.59
1:G:2253:TRP:HA	1:H:698:ALA:HB1	1.84	0.59
1:D:158:GLU:OE2	1:D:982:LYS:HE2	2.01	0.59
1:D:1810:GLN:NE2	1:E:1321:ASP:HA	2.17	0.59
1:E:620:SER:OG	1:E:621:ALA:N	2.34	0.59
1:F:1868:TYR:OH	1:F:1974:LEU:O	2.19	0.59
1:F:541:GLY:HA2	1:J:892:GLN:NE2	2.17	0.59
1:H:1326:ASP:OD2	1:H:1564:LYS:N	2.35	0.59
1:I:1959:TYR:HA	1:I:1962:THR:HG22	1.84	0.59
1:I:2248:GLN:NE2	1:J:702:LEU:HD12	2.16	0.59
1:I:2448:LEU:HB2	1:I:2472:PHE:HE1	1.67	0.59
1:J:1710:THR:HG23	1:J:1715:PRO:HA	1.84	0.59
1:J:326:LYS:NZ	1:J:430:GLU:OE2	2.25	0.59
1:A:2087:LYS:HD3	1:B:2204:LYS:HB3	1.84	0.59
1:A:458:GLU:CD	1:A:506:ARG:HH22	2.06	0.59
1:A:553:ARG:NH2	1:A:553:ARG:O	2.32	0.59
1:B:2009:LEU:HD22	1:B:2294:PRO:HD3	1.84	0.59
1:B:73:GLN:CD	1:B:1952:ILE:HG23	2.23	0.59
1:C:337:ASN:HB3	1:C:339:TYR:O	2.02	0.59
1:E:347:PRO:HA	1:E:353:TYR:HD1	1.67	0.59
1:F:138:LEU:HD21	1:F:145:LEU:HD12	1.84	0.59
1:G:2108:ASN:HB3	1:G:2111:GLU:HG3	1.83	0.59
1:G:521:THR:HG23	1:G:522:PRO:HD3	1.84	0.59
1:J:1559:ALA:HB2	1:J:1565:LEU:HD21	1.84	0.59
1:D:197:ALA:HB3	1:D:948:THR:HG21	1.83	0.59
1:D:2108:ASN:HB3	1:D:2111:GLU:HG3	1.84	0.59
1:D:892:GLN:HE22	1:E:541:GLY:CA	2.14	0.59
1:E:1167:LEU:HD22	1:E:1209:TRP:HH2	1.68	0.59
1:E:1268:TYR:OH	1:E:1286:TYR:OH	2.09	0.59
1:F:1760:PHE:CG	1:F:1820:PRO:HG3	2.38	0.59
1:G:863:THR:OG1	1:G:866:ASN:OD1	2.17	0.59
1:I:1649:PRO:HB3	1:I:1683:ASP:HA	1.85	0.59
1:A:1254:ASP:O	1:A:1256:LEU:N	2.34	0.59
1:A:1294:PHE:HA	1:A:1301:ARG:HB2	1.85	0.59
1:A:2375:LEU:HD21	1:A:2387:LEU:HD21	1.84	0.59
1:D:1704:HIS:HD2	1:D:1726:VAL:HG23	1.68	0.59
1:E:1225:LYS:HE3	1:E:1252:GLN:HG2	1.84	0.59

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1797:LYS:HE3	1:E:1804:GLY:HA3	1.85	0.59
1:E:192:PHE:HD2	1:E:198:THR:HG21	1.67	0.59
1:F:1170:LEU:HD12	1:F:1236:CYS:SG	2.42	0.59
1:F:90:ILE:HG12	1:G:1452:ILE:HB	1.84	0.59
1:H:2106:ASN:ND2	1:H:2189:ARG:HB2	2.18	0.59
1:I:458:GLU:CD	1:I:506:ARG:HH22	2.05	0.59
1:A:218:LEU:HD21	1:A:239:ILE:HG21	1.83	0.59
1:A:2405:SER:OG	1:A:2406:LEU:HA	2.02	0.59
1:B:1659:ARG:HB3	1:B:1660:TRP:CZ3	2.38	0.59
1:B:2224:LYS:HE2	1:B:2228:LYS:HE3	1.84	0.59
1:B:927:ASN:OD1	1:B:930:GLN:NE2	2.34	0.59
1:D:1295:ASP:H	1:D:1301:ARG:HG3	1.68	0.59
1:D:2039:THR:O	1:D:2043:ILE:HG12	2.01	0.59
1:D:2145:PHE:O	1:E:2149:GLY:N	2.23	0.59
1:F:1279:THR:HG23	1:F:1282:GLN:H	1.68	0.59
1:F:1653:SER:N	1:F:1713:LYS:HE3	2.18	0.59
1:F:714:TRP:NE1	1:F:794:PRO:HG2	2.17	0.59
1:G:2046:ARG:NH2	1:G:2251:TYR:OH	2.36	0.59
1:G:612:VAL:HG11	1:G:614:GLU:HG2	1.84	0.59
1:H:1704:HIS:CD2	1:H:1726:VAL:HG23	2.37	0.59
1:H:271:ILE:CG2	1:H:952:ARG:HH22	2.16	0.59
1:H:1614:VAL:HG11	1:I:1166:ARG:HB2	1.83	0.59
1:I:2360:LEU:HG	1:I:2366:GLY:HA3	1.85	0.59
1:I:363:TYR:CZ	1:I:414:LEU:HD23	2.37	0.59
1:J:1157:THR:HG21	1:J:1172:LEU:HB3	1.84	0.59
1:F:2460:PHE:HE1	1:J:2512:ARG:HB3	1.67	0.59
1:J:832:ALA:HB2	1:J:868:PHE:CZ	2.37	0.59
1:J:866:ASN:ND2	1:J:873:SER:OG	2.36	0.59
1:A:2068:LEU:HD12	1:A:2227:LEU:HB3	1.83	0.59
1:B:220:GLN:HG2	1:B:886:GLN:HG3	1.84	0.59
1:C:1616:ARG:NH2	1:C:1628:GLU:HB2	2.17	0.59
1:D:1642:TYR:HE2	1:D:1691:PHE:HB2	1.66	0.59
1:D:2364:GLY:HA2	1:D:2377:PHE:HE2	1.66	0.59
1:D:892:GLN:NE2	1:E:541:GLY:HA2	2.16	0.59
1:E:2281:ARG:HG2	1:E:2289:ALA:HB3	1.85	0.59
1:E:363:TYR:CZ	1:E:414:LEU:HD23	2.38	0.59
1:F:1704:HIS:CD2	1:F:1726:VAL:HG23	2.38	0.59
1:F:1807:VAL:HB	1:F:1812:GLN:OE1	2.02	0.59
1:F:612:VAL:HG22	1:F:637:ILE:HD12	1.84	0.59
1:G:733:TRP:HE1	1:G:748:THR:HB	1.68	0.59
1:G:784:GLU:HG2	1:G:790:THR:HA	1.85	0.59

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:1284:ASN:HA	1:H:1287:ARG:HD2	1.84	0.59
1:H:2068:LEU:HD12	1:H:2227:LEU:HB3	1.85	0.59
1:H:521:THR:HG23	1:H:522:PRO:HD3	1.84	0.59
1:I:1291:TYR:C	1:I:1293:GLN:H	2.06	0.59
1:J:1168:TYR:CD2	1:J:1202:HIS:HB3	2.37	0.59
1:J:1233:GLY:HA3	1:J:1250:TYR:HB2	1.84	0.59
1:A:1649:PRO:HG3	1:A:1684:THR:O	2.03	0.59
1:A:796:HIS:HD2	1:A:801:LEU:HD11	1.68	0.59
1:B:1296:THR:OG1	1:B:1297:ASN:N	2.33	0.59
1:C:2348:ASN:O	1:C:2350:PRO:HD3	2.03	0.59
1:F:1400:ASN:ND2	1:F:1479:THR:HG23	2.14	0.59
1:F:2487:PRO:O	1:F:2497:GLN:NE2	2.36	0.59
1:G:1471:ILE:HB	1:G:1483:VAL:HB	1.85	0.59
1:G:2068:LEU:HD12	1:G:2227:LEU:HB3	1.84	0.59
1:H:2273:CYS:HB3	1:H:2292:ILE:CD1	2.33	0.59
1:I:101:SER:HA	1:J:1429:THR:HG21	1.84	0.59
1:I:1172:LEU:HD21	1:I:1196:TYR:HB3	1.84	0.59
1:J:372:LEU:HD11	1:J:401:ASP:HB3	1.84	0.59
1:C:1438:ILE:HG22	1:C:1441:ALA:H	1.68	0.59
1:C:1093:VAL:H	1:C:1594:GLN:HE22	1.51	0.59
1:C:994:GLN:NE2	1:C:1026:LYS:O	2.35	0.59
1:D:2431:ALA:HB1	1:D:2484:LEU:HD21	1.85	0.59
1:E:1385:PHE:HB2	1:E:1408:TYR:O	2.03	0.59
1:F:76:ASN:ND2	1:F:1892:ASP:O	2.32	0.59
1:I:1321:ASP:OD2	1:I:1322:TYR:N	2.36	0.59
1:A:1786:GLU:OE2	1:C:2186:ARG:NH2	2.36	0.59
1:A:1876:LEU:HD22	1:A:1970:LEU:HD21	1.85	0.59
1:A:464:VAL:CG2	1:A:477:LYS:HD2	2.33	0.59
1:B:337:ASN:HB3	1:B:339:TYR:O	2.02	0.59
1:C:962:LYS:HB2	1:C:1401:LYS:HE2	1.83	0.59
1:C:1104:ASP:HA	1:C:1598:TRP:CZ2	2.36	0.59
1:D:1172:LEU:HD21	1:D:1196:TYR:HB3	1.83	0.59
1:F:1636:GLN:O	1:F:1637:LEU:HG	2.03	0.59
1:F:1805:TYR:OH	1:F:1817:ASN:HB2	2.03	0.59
1:H:142:ARG:HD2	1:H:971:LEU:O	2.02	0.59
1:H:197:ALA:HB3	1:H:948:THR:HG21	1.85	0.59
1:I:1254:ASP:C	1:I:1256:LEU:H	2.07	0.59
1:J:1267:LEU:CD2	1:J:1275:SER:HB2	2.32	0.59
1:A:1300:ARG:O	1:A:1585:THR:HG23	2.02	0.58
1:A:1642:TYR:OH	1:A:1756:GLU:HG3	2.02	0.58
1:D:1760:PHE:CG	1:D:1820:PRO:HG3	2.37	0.58

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1413:ASN:OD1	1:F:1414:THR:N	2.36	0.58
1:G:1239:TYR:HD1	1:G:1246:LEU:HD11	1.68	0.58
1:I:1254:ASP:O	1:I:1256:LEU:N	2.35	0.58
1:I:1220:LYS:NZ	1:I:1277:ASP:OD1	2.27	0.58
1:A:901:ASP:HB3	1:A:904:GLN:HB3	1.85	0.58
1:B:341:MET:SD	1:B:342:ASP:N	2.76	0.58
1:C:598:HIS:HB3	1:C:638:THR:HG21	1.85	0.58
1:F:1294:PHE:HA	1:F:1301:ARG:HB2	1.84	0.58
1:F:2360:LEU:HD21	1:F:2367:SER:HA	1.83	0.58
1:F:2393:PHE:HB3	1:F:2477:ILE:O	2.03	0.58
1:G:620:SER:OG	1:G:621:ALA:N	2.36	0.58
1:G:135:VAL:HG21	1:G:958:ALA:HB3	1.85	0.58
1:H:1797:LYS:HE3	1:H:1804:GLY:HA3	1.84	0.58
1:H:2281:ARG:HG2	1:H:2289:ALA:HB3	1.85	0.58
1:I:1604:ARG:HH12	1:I:1634:GLU:HB3	1.67	0.58
1:C:211:ILE:HG21	1:C:239:ILE:HD13	1.85	0.58
1:D:1264:MET:HE3	1:D:1287:ARG:HG3	1.84	0.58
1:E:2353:LEU:HD23	1:E:2506:ASP:HA	1.85	0.58
1:F:1351:ILE:HG23	1:F:1537:ILE:HB	1.84	0.58
1:G:1101:ILE:HD11	1:G:1311:GLU:HB2	1.85	0.58
1:G:1386:ILE:HD12	1:G:1408:TYR:HD1	1.68	0.58
1:G:641:LEU:HD21	1:G:651:LEU:HD22	1.84	0.58
1:H:1711:PHE:CE1	1:H:1714:SER:HB3	2.37	0.58
1:H:1634:GLU:N	1:H:1756:GLU:O	2.36	0.58
1:I:1357:LEU:HD23	1:I:1530:TYR:CD2	2.38	0.58
1:I:947:SER:HB2	1:I:975:ASN:HD22	1.68	0.58
1:A:1261:ASN:H	1:A:1287:ARG:NH1	2.01	0.58
1:A:1925:ALA:HB1	1:A:1931:PRO:HG3	1.85	0.58
1:F:1126:VAL:HB	1:F:1141:TRP:CZ3	2.38	0.58
1:F:1280:PRO:O	1:F:1284:ASN:ND2	2.36	0.58
1:F:1704:HIS:CD2	1:F:1727:ARG:H	2.22	0.58
1:G:1254:ASP:C	1:G:1256:LEU:H	2.05	0.58
1:G:1386:ILE:HB	1:G:1408:TYR:HB3	1.85	0.58
1:G:1503:LYS:HB2	1:G:1552:ASP:HB2	1.85	0.58
1:G:2244:LYS:O	1:G:2247:ASN:ND2	2.34	0.58
1:H:1153:PRO:HB3	1:H:1171:TRP:HB2	1.85	0.58
1:H:1800:TRP:HB2	1:H:1816:TRP:CD1	2.38	0.58
1:H:2257:ARG:O	1:H:2261:ILE:HG22	2.02	0.58
1:H:288:LEU:HD21	1:H:448:ARG:HD2	1.84	0.58
1:I:1385:PHE:HB2	1:I:1408:TYR:O	2.03	0.58
1:I:1741:LEU:CD2	1:I:1742:THR:H	2.17	0.58

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:2126:THR:HG23	1:J:1204:ARG:HH21	1.68	0.58
1:J:378:LEU:HB3	1:J:395:ILE:HD13	1.84	0.58
1:C:1139:ASN:HD21	1:C:1829:SER:HB2	1.68	0.58
1:C:36:VAL:HG21	1:C:40:LEU:HD22	1.85	0.58
1:C:138:LEU:HD11	1:C:996:TYR:CE2	2.38	0.58
1:D:1585:THR:HB	1:D:1597:GLN:HE21	1.68	0.58
1:E:557:ILE:HG22	1:E:558:ASP:O	2.03	0.58
1:F:99:ARG:HH11	1:F:1947:LEU:HB3	1.69	0.58
1:G:534:GLU:O	1:G:580:ASN:HB2	2.03	0.58
1:H:1053:GLN:NE2	1:H:1058:ASP:OD1	2.36	0.58
1:I:69:ARG:HD3	1:I:83:LEU:O	2.03	0.58
1:J:1653:SER:N	1:J:1713:LYS:HE3	2.06	0.58
1:J:2068:LEU:HD12	1:J:2227:LEU:HB3	1.85	0.58
1:J:930:GLN:HA	1:J:933:THR:HG22	1.85	0.58
1:A:1385:PHE:HB2	1:A:1408:TYR:O	2.03	0.58
1:A:2430:GLN:N	1:A:2497:GLN:OE1	2.34	0.58
1:B:1101:ILE:HD11	1:B:1311:GLU:HB2	1.86	0.58
1:B:1157:THR:HG21	1:B:1172:LEU:HB3	1.83	0.58
1:B:1291:TYR:O	1:B:1292:GLN:HG2	2.03	0.58
1:B:1630:GLN:HA	1:B:1758:MET:HE1	1.85	0.58
1:B:2046:ARG:HB3	1:B:2251:TYR:HE2	1.69	0.58
1:B:733:TRP:NE1	1:B:748:THR:HB	2.18	0.58
1:C:1254:ASP:O	1:C:1256:LEU:N	2.34	0.58
1:C:1420:GLY:H	1:C:1462:ASN:ND2	2.01	0.58
1:C:1660:TRP:CE2	1:C:1680:GLN:HB3	2.39	0.58
1:C:2448:LEU:HB2	1:C:2472:PHE:HE1	1.67	0.58
1:D:136:TYR:HB3	1:D:141:ARG:HH21	1.68	0.58
1:E:1063:SER:O	1:E:1066:GLN:NE2	2.33	0.58
1:E:1114:SER:OG	1:E:1120:GLU:HB2	2.04	0.58
1:E:1596:MET:HB2	1:E:1605:LEU:HD11	1.84	0.58
1:E:1800:TRP:HB2	1:E:1816:TRP:CD1	2.39	0.58
1:E:947:SER:CB	1:E:975:ASN:HD22	2.16	0.58
1:H:1497:LYS:HB3	1:H:1558:PHE:HB2	1.85	0.58
1:I:15:GLN:HB3	1:I:16:CYS:HB2	1.85	0.58
1:I:2256:GLY:HA3	1:J:698:ALA:HB2	1.83	0.58
1:I:940:GLU:HG3	1:I:979:ALA:HB2	1.85	0.58
1:J:125:GLU:HB3	1:J:1018:PHE:CE1	2.38	0.58
1:A:1093:VAL:H	1:A:1594:GLN:HE22	1.51	0.58
1:B:1295:ASP:N	1:B:1301:ARG:HG3	2.19	0.58
1:B:2364:GLY:HA2	1:B:2377:PHE:HE2	1.69	0.58
1:B:557:ILE:HD11	1:B:592:LYS:HE3	1.84	0.58

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:193:ARG:NH2	1:C:253:GLU:OE2	2.36	0.58
1:D:733:TRP:HE1	1:D:748:THR:HB	1.68	0.58
1:D:2077:GLU:OE1	1:E:2216:ARG:NH1	2.37	0.58
1:F:844:ASN:HB2	1:G:564:ARG:HH12	1.67	0.58
1:H:42:TRP:CH2	1:H:1321:ASP:HB2	2.38	0.58
1:I:1050:ARG:HH22	1:I:1057:MET:HE2	1.69	0.58
1:I:1179:LYS:HE3	1:I:1180:GLN:HG2	1.86	0.58
1:J:1122:TYR:HE2	1:J:1146:LYS:HG2	1.69	0.58
1:A:1453:GLY:H	1:E:90:ILE:HD11	1.69	0.58
1:B:2405:SER:OG	1:B:2406:LEU:HA	2.03	0.58
1:C:1357:LEU:HD12	1:C:1555:PHE:HD2	1.69	0.58
1:C:1604:ARG:NH1	1:C:1634:GLU:HB3	2.18	0.58
1:C:341:MET:SD	1:C:342:ASP:N	2.77	0.58
1:C:488:TYR:CZ	1:C:597:ILE:HD12	2.38	0.58
1:D:1741:LEU:CD2	1:D:1742:THR:H	2.16	0.58
1:E:2257:ARG:O	1:E:2261:ILE:HG22	2.03	0.58
1:E:994:GLN:NE2	1:E:1026:LYS:O	2.37	0.58
1:F:1061:LEU:HA	1:F:1064:VAL:HG12	1.86	0.58
1:G:1279:THR:HB	1:G:1282:GLN:HB2	1.86	0.58
1:G:1760:PHE:CG	1:G:1820:PRO:HG3	2.39	0.58
1:G:276:LEU:HA	1:G:281:TYR:HD2	1.69	0.58
1:H:1250:TYR:CE2	1:H:1294:PHE:HB3	2.38	0.58
1:I:67:LEU:O	1:I:103:TYR:OH	2.22	0.58
1:I:1188:TYR:HD1	1:J:1188:TYR:OH	1.86	0.58
1:I:2039:THR:O	1:I:2043:ILE:HG12	2.03	0.58
1:I:601:THR:HG23	1:I:604:GLU:H	1.67	0.58
1:J:1141:TRP:CD1	1:J:1763:ALA:HA	2.39	0.58
1:I:2128:VAL:HG22	1:J:2165:MET:HB3	1.86	0.58
1:J:280:GLU:HG2	1:J:1399:SER:HB2	1.85	0.58
1:A:1295:ASP:N	1:A:1301:ARG:HG3	2.19	0.58
1:B:1513:ALA:HA	1:B:1532:PHE:CE2	2.39	0.58
1:E:1172:LEU:HD21	1:E:1196:TYR:HB3	1.86	0.58
1:E:2106:ASN:ND2	1:E:2189:ARG:HD2	2.19	0.58
1:G:2241:LEU:HD13	1:G:2244:LYS:HD3	1.86	0.58
1:A:417:GLY:N	1:A:418:SER:HA	2.18	0.58
1:B:1746:SER:HB3	1:C:1522:SER:OG	2.04	0.58
1:C:1640:GLY:HA2	1:C:1691:PHE:HE1	1.69	0.58
1:C:2442:ALA:HB3	1:C:2445:CYS:HB2	1.85	0.58
1:D:745:ALA:HB3	1:D:749:GLN:OE1	2.03	0.58
1:E:181:ASN:OD1	1:E:182:TYR:N	2.37	0.58
1:F:195:SER:O	1:F:198:THR:HG22	2.04	0.58

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:210:VAL:HG11	1:G:922:LEU:HB3	1.86	0.58
1:H:260:ALA:HB1	1:H:434:TYR:HB2	1.86	0.58
1:I:622:ILE:HG21	1:I:627:LEU:HD23	1.86	0.58
1:B:42:TRP:CH2	1:B:1321:ASP:HB2	2.39	0.57
1:B:219:GLU:O	1:B:223:ALA:N	2.37	0.57
1:B:450:THR:HG21	1:B:478:VAL:HG11	1.86	0.57
1:D:1802:PRO:HB2	1:E:1002:GLU:HG2	1.86	0.57
1:D:398:ASN:O	1:D:402:ILE:HG12	2.04	0.57
1:E:2431:ALA:HB3	1:E:2450:VAL:HG13	1.86	0.57
1:G:1295:ASP:N	1:G:1301:ARG:HG3	2.19	0.57
1:G:1384:LYS:O	1:G:1410:TYR:HB2	2.04	0.57
1:G:337:ASN:HB3	1:G:339:TYR:O	2.04	0.57
1:G:761:GLN:OE1	1:G:796:HIS:HE1	1.87	0.57
1:I:1091:LEU:HD21	1:I:1122:TYR:HD1	1.69	0.57
1:J:994:GLN:NE2	1:J:1026:LYS:O	2.37	0.57
1:J:570:ASP:HA	1:J:618:ASN:HD22	1.68	0.57
1:A:1188:TYR:HD1	1:B:1188:TYR:OH	1.87	0.57
1:B:2257:ARG:O	1:B:2261:ILE:HG22	2.04	0.57
1:C:1092:LYS:HE3	1:C:1588:HIS:CD2	2.40	0.57
1:C:612:VAL:HG22	1:C:637:ILE:HD12	1.85	0.57
1:D:1108:THR:OG1	1:D:1128:HIS:NE2	2.29	0.57
1:D:1737:PRO:HA	1:D:1738:LYS:C	2.25	0.57
1:E:130:HIS:ND1	1:E:996:TYR:OH	2.34	0.57
1:F:135:VAL:HG21	1:F:958:ALA:HB3	1.85	0.57
1:F:1642:TYR:OH	1:F:1756:GLU:HG3	2.03	0.57
1:F:2027:ARG:NH2	1:F:2318:GLU:OE1	2.37	0.57
1:F:814:LEU:HD13	1:F:821:VAL:HG21	1.86	0.57
1:G:1898:LEU:HD12	1:H:300:ALA:H	1.69	0.57
1:H:2463:ASP:O	1:H:2466:ASP:HB2	2.04	0.57
1:H:771:ILE:HD11	1:H:804:LEU:HB3	1.86	0.57
1:I:1091:LEU:HD21	1:I:1122:TYR:CD1	2.39	0.57
1:I:2393:PHE:HB3	1:I:2477:ILE:O	2.04	0.57
1:I:841:LEU:HD12	1:I:846:LEU:HD11	1.86	0.57
1:A:1261:ASN:HA	1:A:1287:ARG:NH2	2.19	0.57
1:A:42:TRP:HD1	1:A:42:TRP:O	1.88	0.57
1:B:2433:LEU:HB2	1:B:2448:LEU:HB3	1.87	0.57
1:C:1447:ASN:ND2	1:C:1456:TYR:O	2.37	0.57
1:C:1651:ASN:HB3	1:C:1652:LEU:HA	1.85	0.57
1:C:1666:LYS:HD3	1:C:1706:LYS:HD3	1.87	0.57
1:C:380:ARG:NH1	1:C:382:GLU:OE1	2.37	0.57
1:D:372:LEU:HD12	1:D:397:LEU:HD22	1.86	0.57

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:93:ASN:HD22	1:G:1452:ILE:HD13	1.70	0.57
1:F:1614:VAL:HG11	1:G:1166:ARG:HB2	1.85	0.57
1:G:1141:TRP:CD1	1:G:1763:ALA:HA	2.39	0.57
1:G:481:THR:HG22	1:G:485:MET:HE2	1.86	0.57
1:H:2187:ARG:HA	1:H:2190:GLN:OE1	2.04	0.57
1:I:604:GLU:HB3	1:I:648:VAL:HG21	1.86	0.57
1:J:218:LEU:HD21	1:J:239:ILE:HG21	1.86	0.57
1:A:1810:GLN:NE2	1:B:1321:ASP:HA	2.19	0.57
1:B:1639:LYS:HB2	1:B:1694:LEU:O	2.03	0.57
1:C:1720:TRP:HE1	1:C:1739:SER:H	1.51	0.57
1:C:464:VAL:CG2	1:C:477:LYS:HD2	2.34	0.57
1:D:1126:VAL:HB	1:D:1141:TRP:CZ3	2.39	0.57
1:D:1386:ILE:HG13	1:D:1410:TYR:HE1	1.69	0.57
1:D:1660:TRP:NE1	1:D:1680:GLN:HB3	2.20	0.57
1:F:2218:GLU:OE2	1:J:2073:LYS:NZ	2.26	0.57
1:F:471:ASN:OD1	1:F:472:THR:N	2.38	0.57
1:G:2430:GLN:N	1:G:2497:GLN:OE1	2.33	0.57
1:H:1737:PRO:HA	1:H:1738:LYS:C	2.25	0.57
1:H:553:ARG:NH2	1:H:556:ASN:OD1	2.36	0.57
1:I:994:GLN:NE2	1:I:1026:LYS:O	2.37	0.57
1:I:2257:ARG:O	1:I:2261:ILE:HG22	2.03	0.57
1:J:1310:TYR:CE2	1:J:1349:LEU:HD22	2.40	0.57
1:B:940:GLU:HG3	1:B:979:ALA:HB2	1.86	0.57
1:D:1704:HIS:CD2	1:D:1726:VAL:HG23	2.39	0.57
1:D:2338:ALA:HB2	1:D:2506:ASP:HB3	1.86	0.57
1:G:1447:ASN:ND2	1:G:1455:ASP:OD1	2.36	0.57
1:G:1642:TYR:HE2	1:G:1691:PHE:HB2	1.70	0.57
1:G:2087:LYS:HD3	1:H:2204:LYS:HB3	1.86	0.57
1:G:417:GLY:N	1:G:418:SER:HA	2.19	0.57
1:H:1257:ASP:OD1	1:H:1258:SER:N	2.29	0.57
1:I:1139:ASN:HD21	1:I:1829:SER:H	1.51	0.57
1:I:398:ASN:O	1:I:402:ILE:HG12	2.04	0.57
1:J:670:LEU:HB2	1:J:699:THR:HG21	1.87	0.57
1:A:994:GLN:NE2	1:A:1026:LYS:O	2.36	0.57
1:A:1413:ASN:OD1	1:A:1414:THR:N	2.37	0.57
1:A:1802:PRO:HB2	1:B:1002:GLU:HG2	1.85	0.57
1:A:195:SER:O	1:A:198:THR:HG22	2.03	0.57
1:C:15:GLN:HB3	1:C:16:CYS:HB2	1.85	0.57
1:C:2433:LEU:HB2	1:C:2448:LEU:HB3	1.87	0.57
1:D:1124:ARG:HD2	1:D:1144:TRP:CZ2	2.39	0.57
1:D:1295:ASP:N	1:D:1301:ARG:HG3	2.20	0.57

*Continued on next page...*



*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1721:TRP:HA	1:D:1740:ILE:HB	1.85	0.57
1:F:1130:LYS:HB2	1:F:1140:ALA:HB2	1.86	0.57
1:F:714:TRP:CD1	1:F:794:PRO:HG2	2.39	0.57
1:G:2009:LEU:HD22	1:G:2294:PRO:HD3	1.87	0.57
1:G:2393:PHE:HB3	1:G:2477:ILE:O	2.05	0.57
1:G:778:LEU:HA	1:G:781:THR:HG22	1.86	0.57
1:H:2375:LEU:HD21	1:H:2387:LEU:HD21	1.86	0.57
1:I:1357:LEU:HD23	1:I:1530:TYR:HD2	1.69	0.57
1:I:930:GLN:HA	1:I:933:THR:HG22	1.85	0.57
1:J:348:PHE:HE1	1:J:354:ARG:HH21	1.51	0.57
1:A:1475:ASP:HB2	1:A:1479:THR:HB	1.85	0.57
1:A:1641:PHE:HD1	1:A:1692:ILE:HB	1.70	0.57
1:B:1093:VAL:H	1:B:1594:GLN:HE22	1.52	0.57
1:B:1386:ILE:HG13	1:B:1410:TYR:HE1	1.69	0.57
1:C:2497:GLN:O	1:C:2501:LEU:HG	2.05	0.57
1:C:1614:VAL:HG11	1:D:1166:ARG:HB2	1.87	0.57
1:D:1213:ILE:HD13	1:D:1273:MET:HG3	1.87	0.57
1:D:138:LEU:HD11	1:D:993:ILE:HG12	1.87	0.57
1:D:497:ILE:HD13	1:D:589:TYR:HD2	1.69	0.57
1:E:1213:ILE:HG21	1:E:1273:MET:HG3	1.86	0.57
1:E:1280:PRO:O	1:E:1284:ASN:ND2	2.33	0.57
1:E:1642:TYR:OH	1:E:1756:GLU:HG3	2.04	0.57
1:F:2463:ASP:O	1:F:2466:ASP:HB2	2.05	0.57
1:I:1284:ASN:HA	1:I:1287:ARG:HD2	1.87	0.57
1:J:2419:LEU:HD12	1:J:2429:VAL:HG11	1.85	0.57
1:J:2487:PRO:O	1:J:2497:GLN:NE2	2.38	0.57
1:B:1254:ASP:O	1:B:1256:LEU:N	2.35	0.57
1:B:1467:LEU:HD22	1:B:1471:ILE:HD11	1.85	0.57
1:B:965:ASP:OD2	1:B:976:GLN:NE2	2.38	0.57
1:C:1821:LEU:CD2	1:C:1845:PRO:HB3	2.34	0.57
1:C:2106:ASN:OD1	1:C:2107:ILE:HG13	2.04	0.57
1:C:714:TRP:NE1	1:C:794:PRO:HG2	2.19	0.57
1:D:1710:THR:OG1	1:D:1715:PRO:HA	2.05	0.57
1:D:69:ARG:HD3	1:D:83:LEU:O	2.05	0.57
1:E:1336:ASP:O	1:E:1338:PRO:HD3	2.03	0.57
1:E:1438:ILE:HB	1:E:1441:ALA:HB3	1.87	0.57
1:E:2364:GLY:HA2	1:E:2377:PHE:CE2	2.39	0.57
1:F:1737:PRO:HA	1:F:1738:LYS:C	2.25	0.57
1:F:2257:ARG:O	1:F:2261:ILE:HG22	2.05	0.57
1:G:1122:TYR:CE2	1:G:1146:LYS:HG2	2.40	0.57
1:G:1640:GLY:HA2	1:G:1691:PHE:HE1	1.69	0.57

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:2018:ARG:NH1	1:H:2473:GLU:OE2	2.38	0.57
1:H:2448:LEU:HB2	1:H:2472:PHE:HE1	1.67	0.57
1:I:1090:ASN:OD1	1:I:1611:ARG:NH1	2.38	0.57
1:J:520:ASN:ND2	1:J:528:TYR:H	2.01	0.57
1:B:1741:LEU:O	1:B:1742:THR:HG22	2.05	0.57
1:E:1378:TYR:HB3	1:E:1421:ARG:NH1	2.19	0.57
1:F:143:PRO:HA	1:F:146:LYS:HE2	1.87	0.57
1:F:1959:TYR:HA	1:F:1962:THR:HG22	1.86	0.57
1:G:1704:HIS:HD2	1:G:1726:VAL:HG23	1.70	0.57
1:G:2018:ARG:NH1	1:G:2473:GLU:OE2	2.37	0.57
1:G:783:PRO:HB3	1:G:794:PRO:HB3	1.86	0.57
1:H:1647:ILE:HB	1:H:1686:ILE:HB	1.87	0.57
1:J:347:PRO:HA	1:J:353:TYR:CD1	2.40	0.57
1:A:142:ARG:HD2	1:A:971:LEU:O	2.05	0.57
1:C:2006:GLY:HA3	1:C:2008:LYS:HE2	1.87	0.57
1:C:79:HIS:NE2	1:D:1002:GLU:O	2.38	0.57
1:D:1459:ASP:HB3	1:D:1462:ASN:HB3	1.87	0.57
1:A:995:LEU:HD21	1:E:1881:MET:HB2	1.87	0.57
1:E:911:THR:HB	1:E:914:GLN:H	1.68	0.57
1:F:565:LEU:HB2	1:F:602:ILE:HD13	1.87	0.57
1:F:662:THR:N	1:F:753:VAL:HG11	2.14	0.57
1:G:1007:ASN:OD1	1:G:1008:ALA:N	2.38	0.57
1:G:1061:LEU:HA	1:G:1064:VAL:HG12	1.87	0.57
1:G:1386:ILE:HG13	1:G:1410:TYR:HE1	1.70	0.57
1:H:1805:TYR:OH	1:H:1817:ASN:HB2	2.05	0.57
1:J:1007:ASN:OD1	1:J:1008:ALA:N	2.38	0.57
1:J:2362:SER:HA	1:J:2491:MET:HE2	1.86	0.57
1:A:194:PRO:O	1:A:285:TYR:OH	2.12	0.56
1:B:220:GLN:HA	1:B:223:ALA:HB3	1.87	0.56
1:D:1114:SER:OG	1:D:1120:GLU:HB2	2.04	0.56
1:D:1130:LYS:HB2	1:D:1140:ALA:HB2	1.86	0.56
1:F:1066:GLN:HG2	1:H:2178:LYS:NZ	2.20	0.56
1:F:2261:ILE:HD12	1:J:2309:THR:HA	1.86	0.56
1:H:1641:PHE:HB3	1:H:1692:ILE:O	2.05	0.56
1:H:503:ILE:HG13	1:H:586:SER:OG	2.05	0.56
1:I:102:GLN:HE22	1:I:1901:THR:H	1.52	0.56
1:I:1061:LEU:HD22	1:I:1778:LEU:HD11	1.87	0.56
1:I:2422:LEU:H	1:I:2503:THR:HG21	1.69	0.56
1:J:1514:ASP:OD2	1:J:1515:LYS:N	2.38	0.56
1:J:300:ALA:HB2	1:J:306:GLN:HE21	1.69	0.56
1:A:42:TRP:CH2	1:A:1320:LYS:HB3	2.40	0.56

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2039:THR:O	1:B:2043:ILE:HG12	2.05	0.56
1:B:783:PRO:HB3	1:B:794:PRO:HB3	1.86	0.56
1:C:2273:CYS:HB3	1:C:2292:ILE:HD13	1.87	0.56
1:E:2422:LEU:HB2	1:E:2503:THR:HG21	1.86	0.56
1:E:661:LYS:HD3	1:E:750:GLU:HB3	1.87	0.56
1:F:1398:SER:HB3	1:F:1480:ALA:HB3	1.87	0.56
1:H:462:ARG:HG3	1:H:467:GLN:HE21	1.69	0.56
1:H:844:ASN:H	1:I:564:ARG:HH22	1.51	0.56
1:I:1268:TYR:CE1	1:I:1278:MET:HG3	2.40	0.56
1:J:771:ILE:HD11	1:J:804:LEU:HD13	1.87	0.56
1:J:964:ARG:NH1	1:J:976:GLN:HG2	2.20	0.56
1:A:1438:ILE:HB	1:A:1441:ALA:HB3	1.87	0.56
1:A:1642:TYR:CE2	1:A:1691:PHE:HB2	2.40	0.56
1:A:2106:ASN:HD21	1:A:2189:ARG:HB2	1.68	0.56
1:B:1260:LYS:HA	1:B:1287:ARG:HH12	1.69	0.56
1:B:2463:ASP:O	1:B:2466:ASP:HB2	2.05	0.56
1:C:1445:LEU:HD11	1:C:1467:LEU:HD11	1.87	0.56
1:C:667:ILE:HD11	1:C:757:GLN:HG3	1.87	0.56
1:D:1807:VAL:HB	1:D:1812:GLN:OE1	2.04	0.56
1:D:2118:ARG:NH2	1:E:2177:ASP:OD1	2.39	0.56
1:D:2398:ILE:HB	1:D:2477:ILE:HG21	1.87	0.56
1:E:2244:LYS:HE2	1:E:2246:SER:HB3	1.87	0.56
1:E:604:GLU:HB3	1:E:648:VAL:HG21	1.88	0.56
1:F:521:THR:HG23	1:F:522:PRO:CD	2.31	0.56
1:H:1279:THR:HG23	1:H:1282:GLN:H	1.70	0.56
1:I:1327:TYR:CE2	1:I:1487:VAL:HG11	2.40	0.56
1:I:458:GLU:OE1	1:I:506:ARG:NH2	2.36	0.56
1:J:1741:LEU:O	1:J:1742:THR:HG22	2.06	0.56
1:A:1204:ARG:NH2	1:B:2126:THR:HG23	2.20	0.56
1:B:2353:LEU:HD23	1:B:2506:ASP:HA	1.87	0.56
1:B:29:PHE:HA	1:B:49:TYR:CE1	2.40	0.56
1:D:1351:ILE:HG23	1:D:1537:ILE:HB	1.87	0.56
1:D:2501:LEU:HA	1:D:2504:LEU:HD12	1.87	0.56
1:D:281:TYR:OH	1:D:952:ARG:NH1	2.38	0.56
1:E:1797:LYS:HE3	1:E:1801:SER:HB2	1.86	0.56
1:E:2360:LEU:HD22	1:E:2375:LEU:HD23	1.86	0.56
1:A:564:ARG:NH2	1:E:844:ASN:H	2.00	0.56
1:F:1514:ASP:OD2	1:F:1515:LYS:N	2.39	0.56
1:H:1224:LEU:HD11	1:H:1249:PHE:HB3	1.86	0.56
1:H:1868:TYR:O	1:H:1871:LEU:HD22	2.05	0.56
1:H:110:SER:HB3	1:H:1902:TRP:CG	2.40	0.56

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:930:GLN:HA	1:H:933:THR:HG22	1.87	0.56
1:I:641:LEU:HD21	1:I:651:LEU:HD22	1.86	0.56
1:I:901:ASP:HB3	1:I:904:GLN:HB3	1.87	0.56
1:A:1409:GLN:OE1	1:A:1421:ARG:NH1	2.37	0.56
1:B:1236:CYS:H	1:B:1303:ASN:HD22	1.53	0.56
1:B:146:LYS:O	1:B:1908:ASP:HB2	2.05	0.56
1:E:276:LEU:HA	1:E:281:TYR:CD2	2.40	0.56
1:F:2281:ARG:HG2	1:F:2289:ALA:HB3	1.86	0.56
1:F:553:ARG:O	1:F:553:ARG:NH2	2.35	0.56
1:H:231:MET:CG	1:H:898:VAL:HG23	2.35	0.56
1:I:1604:ARG:NE	1:I:1637:LEU:HD11	2.21	0.56
1:I:79:HIS:ND1	1:I:1802:PRO:HB3	2.20	0.56
1:A:1607:THR:HG22	1:A:1764:ASN:HD22	1.70	0.56
1:A:455:THR:HG21	1:A:508:TYR:CD2	2.40	0.56
1:B:1139:ASN:ND2	1:B:1829:SER:O	2.37	0.56
1:D:1279:THR:OG1	1:D:1280:PRO:HD2	2.05	0.56
1:D:604:GLU:HB3	1:D:648:VAL:HG21	1.88	0.56
1:D:81:ALA:H	1:D:1816:TRP:HH2	1.54	0.56
1:E:1321:ASP:HB3	1:E:1569:SER:HB3	1.87	0.56
1:F:1367:GLN:NE2	1:F:1391:LEU:HD12	2.21	0.56
1:F:2226:SER:O	1:F:2230:GLN:HG3	2.05	0.56
1:F:2068:LEU:HD12	1:F:2227:LEU:HB3	1.88	0.56
1:F:609:LEU:HD21	1:F:634:LEU:HD11	1.87	0.56
1:G:1604:ARG:HG3	1:G:1637:LEU:HD21	1.86	0.56
1:H:90:ILE:HG12	1:I:1452:ILE:HB	1.87	0.56
1:I:1475:ASP:HB2	1:I:1479:THR:H	1.71	0.56
1:I:1807:VAL:HB	1:I:1812:GLN:OE1	2.06	0.56
1:J:1300:ARG:O	1:J:1585:THR:HG23	2.05	0.56
1:B:1163:TYR:CD2	1:B:1245:LEU:HB3	2.40	0.56
1:B:1790:ASP:OD1	1:B:1863:ARG:NH2	2.38	0.56
1:D:832:ALA:C	1:D:834:GLN:H	2.07	0.56
1:E:71:ASN:ND2	1:E:1040:TYR:OH	2.39	0.56
1:E:142:ARG:HD2	1:E:971:LEU:O	2.05	0.56
1:A:698:ALA:HB2	1:E:2256:GLY:HA3	1.87	0.56
1:E:2329:LEU:HB2	1:E:2515:ILE:HB	1.87	0.56
1:F:2046:ARG:NH2	1:F:2251:TYR:OH	2.38	0.56
1:F:778:LEU:HD21	1:F:785:MET:SD	2.46	0.56
1:G:1777:MET:HE1	1:G:1852:THR:HG23	1.87	0.56
1:G:962:LYS:HB2	1:G:1401:LYS:HE2	1.86	0.56
1:H:195:SER:O	1:H:198:THR:HG22	2.05	0.56
1:I:1061:LEU:HA	1:I:1064:VAL:HG12	1.88	0.56

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:1719:THR:HG23	1:I:1721:TRP:HB2	1.87	0.56
1:J:210:VAL:HG11	1:J:922:LEU:HB3	1.87	0.56
1:A:1071:ALA:O	1:A:1075:GLU:HG3	2.06	0.56
1:A:1498:VAL:HG11	1:A:1530:TYR:CE2	2.40	0.56
1:C:1268:TYR:CE1	1:C:1278:MET:HG3	2.41	0.56
1:C:446:LEU:HD12	1:C:470:ILE:HD13	1.86	0.56
1:C:927:ASN:OD1	1:C:930:GLN:NE2	2.29	0.56
1:D:146:LYS:O	1:D:1908:ASP:HB2	2.06	0.56
1:D:2448:LEU:HB2	1:D:2472:PHE:HE1	1.70	0.56
1:E:1090:ASN:HD21	1:E:1610:ALA:HB3	1.71	0.56
1:E:402:ILE:HD12	1:E:428:VAL:HG11	1.88	0.56
1:G:195:SER:O	1:G:198:THR:HG22	2.06	0.56
1:G:90:ILE:HA	1:H:1452:ILE:HD12	1.87	0.56
1:I:984:THR:HG23	1:I:987:ALA:H	1.70	0.56
1:A:1090:ASN:OD1	1:A:1611:ARG:NH1	2.39	0.56
1:A:299:LYS:HE3	1:A:307:GLU:HB2	1.88	0.56
1:B:1328:TYR:HB2	1:B:1368:LYS:HG2	1.87	0.56
1:B:1597:GLN:HG2	1:B:1602:ARG:HG2	1.86	0.56
1:C:42:TRP:HH2	1:C:1321:ASP:HB2	1.71	0.56
1:C:1602:ARG:HD2	1:C:1693:PRO:HB3	1.86	0.56
1:D:1561:ASP:OD2	1:D:1563:ARG:NH2	2.38	0.56
1:E:866:ASN:ND2	1:E:873:SER:OG	2.39	0.56
1:G:1514:ASP:OD2	1:G:1515:LYS:N	2.39	0.56
1:G:2393:PHE:HE1	1:G:2482:LEU:HB2	1.71	0.56
1:H:1650:TYR:O	1:H:1651:ASN:HB2	2.06	0.56
1:H:2009:LEU:HD13	1:H:2294:PRO:HB3	1.86	0.56
1:H:2226:SER:O	1:H:2230:GLN:HG3	2.06	0.56
1:J:2008:LYS:HE3	1:J:2297:TRP:HB3	1.88	0.56
1:B:1641:PHE:HD1	1:B:1692:ILE:HB	1.71	0.56
1:B:814:LEU:HD13	1:B:821:VAL:HG21	1.87	0.56
1:D:1279:THR:HG23	1:D:1282:GLN:H	1.69	0.56
1:D:1300:ARG:O	1:D:1585:THR:HG23	2.06	0.56
1:D:620:SER:OG	1:D:621:ALA:N	2.38	0.56
1:F:778:LEU:HA	1:F:781:THR:HG22	1.88	0.56
1:G:1836:ASP:O	1:G:1840:VAL:HG23	2.05	0.56
1:G:2338:ALA:HB2	1:G:2506:ASP:HB3	1.88	0.56
1:I:1258:SER:HA	1:I:1291:TYR:HE1	1.71	0.56
1:B:41:SER:HB3	1:B:44:GLU:OE1	2.05	0.56
1:B:707:VAL:HG23	1:B:773:GLU:OE1	2.07	0.56
1:C:2046:ARG:NH2	1:C:2251:TYR:OH	2.39	0.56
1:C:2040:LEU:HB2	1:C:2258:LEU:HD22	1.88	0.56

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2412:ILE:HD12	1:C:2475:ILE:HB	1.88	0.56
1:C:844:ASN:HB2	1:D:564:ARG:HH12	1.68	0.56
1:D:1805:TYR:OH	1:D:1817:ASN:HB2	2.05	0.56
1:F:1797:LYS:HE3	1:F:1804:GLY:HA3	1.86	0.56
1:F:1892:ASP:OD2	1:G:1401:LYS:NZ	2.25	0.56
1:G:1321:ASP:OD2	1:G:1322:TYR:N	2.38	0.56
1:G:1491:THR:HG21	1:G:1525:PHE:HZ	1.70	0.56
1:G:1518:SER:HB3	1:G:1533:ASN:HD21	1.70	0.56
1:G:1706:LYS:HZ3	1:G:1718:GLY:HA2	1.71	0.56
1:I:161:THR:C	1:I:163:SER:H	2.08	0.56
1:I:333:GLU:HG2	1:I:506:ARG:HG3	1.87	0.56
1:I:772:ASN:HD22	1:I:822:LEU:HD12	1.70	0.56
1:J:1384:LYS:O	1:J:1410:TYR:HB2	2.06	0.56
1:J:371:LYS:HB3	1:J:373:ASN:O	2.06	0.56
1:J:41:SER:OG	1:J:41:SER:O	2.23	0.56
1:A:1205:TYR:CD1	1:E:1082:LEU:HB3	2.41	0.55
1:A:37:SER:O	1:A:1503:LYS:NZ	2.39	0.55
1:C:1268:TYR:CD1	1:C:1278:MET:HG3	2.40	0.55
1:D:1225:LYS:HE3	1:D:1252:GLN:HG2	1.87	0.55
1:D:2033:LEU:CD1	1:D:2266:TYR:HA	2.36	0.55
1:F:1400:ASN:ND2	1:F:1402:LEU:HB2	2.21	0.55
1:F:194:PRO:O	1:F:285:TYR:OH	2.18	0.55
1:G:2348:ASN:O	1:G:2350:PRO:HD3	2.06	0.55
1:H:778:LEU:HD21	1:H:785:MET:SD	2.46	0.55
1:J:1254:ASP:O	1:J:1256:LEU:N	2.39	0.55
1:J:2122:ALA:HB1	1:J:2175:GLU:HG2	1.88	0.55
1:B:1220:LYS:HG2	1:B:1265:GLN:HB3	1.87	0.55
1:B:1659:ARG:HB3	1:B:1660:TRP:CE3	2.42	0.55
1:B:2108:ASN:HB3	1:B:2111:GLU:HG3	1.87	0.55
1:C:962:LYS:NZ	1:C:1398:SER:O	2.39	0.55
1:D:153:GLN:O	1:D:157:ILE:HG12	2.07	0.55
1:D:2147:PHE:CD2	1:E:2147:PHE:HE2	2.25	0.55
1:D:1083:THR:OG1	1:E:1205:TYR:HB2	2.07	0.55
1:F:2448:LEU:HG	1:F:2458:GLY:HA3	1.87	0.55
1:G:1353:ILE:HG22	1:G:1355:PRO:HD3	1.87	0.55
1:G:901:ASP:HB3	1:G:904:GLN:HB3	1.87	0.55
1:H:1333:TYR:HD2	1:H:1358:ARG:HD3	1.72	0.55
1:H:1807:VAL:HB	1:H:1812:GLN:OE1	2.06	0.55
1:I:1221:ILE:HD12	1:I:1222:SER:N	2.21	0.55
1:J:1649:PRO:CB	1:J:1683:ASP:HA	2.36	0.55
1:J:477:LYS:HD3	1:J:499:CYS:SG	2.46	0.55

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:601:THR:HG23	1:J:604:GLU:H	1.70	0.55
1:A:1511:PHE:CD2	1:A:1535:LEU:HD22	2.41	0.55
1:A:2099:TYR:CD2	1:A:2195:GLN:HB3	2.41	0.55
1:B:90:ILE:HA	1:C:1452:ILE:HD12	1.88	0.55
1:C:1505:GLY:H	1:C:1542:LEU:HB2	1.70	0.55
1:C:2448:LEU:HG	1:C:2458:GLY:HA3	1.88	0.55
1:D:1385:PHE:HB2	1:D:1408:TYR:O	2.05	0.55
1:D:1141:TRP:CD1	1:D:1763:ALA:HA	2.41	0.55
1:F:192:PHE:HD2	1:F:198:THR:HG21	1.72	0.55
1:G:1121:TYR:HB2	1:G:1147:ILE:HD11	1.87	0.55
1:G:1451:ALA:HB3	1:G:1454:ASP:O	2.06	0.55
1:G:1650:TYR:CG	1:G:1651:ASN:N	2.74	0.55
1:H:1351:ILE:HG23	1:H:1537:ILE:HB	1.88	0.55
1:I:146:LYS:O	1:I:1908:ASP:HB2	2.06	0.55
1:I:33:ARG:CZ	1:I:37:SER:HA	2.35	0.55
1:J:1250:TYR:CD2	1:J:1294:PHE:HD2	2.24	0.55
1:A:1110:PHE:HE1	1:A:1126:VAL:HG12	1.71	0.55
1:A:2433:LEU:HD22	1:A:2482:LEU:HD21	1.88	0.55
1:A:477:LYS:HD3	1:A:499:CYS:SG	2.46	0.55
1:A:714:TRP:CD1	1:A:794:PRO:HG2	2.41	0.55
1:B:1104:ASP:HA	1:B:1598:TRP:CZ2	2.42	0.55
1:B:1236:CYS:H	1:B:1303:ASN:ND2	2.04	0.55
1:B:1805:TYR:OH	1:B:1817:ASN:HB2	2.06	0.55
1:C:1321:ASP:OD2	1:C:1322:TYR:N	2.39	0.55
1:C:1333:TYR:CD2	1:C:1358:ARG:HD3	2.38	0.55
1:D:1353:ILE:HG22	1:D:1355:PRO:HD3	1.88	0.55
1:E:124:ARG:HB2	1:E:1911:ALA:HB1	1.88	0.55
1:G:1111:ILE:HD11	1:G:1160:PRO:HB3	1.87	0.55
1:G:1358:ARG:HH21	1:G:1360:ILE:HD11	1.71	0.55
1:G:181:ASN:OD1	1:G:182:TYR:N	2.38	0.55
1:G:453:SER:HB3	1:G:456:ILE:HG12	1.88	0.55
1:H:1336:ASP:O	1:H:1338:PRO:HD3	2.07	0.55
1:H:1514:ASP:OD2	1:H:1515:LYS:N	2.40	0.55
1:H:2095:ARG:NH1	1:H:2202:GLU:OE2	2.31	0.55
1:H:947:SER:CB	1:H:975:ASN:HD22	2.19	0.55
1:I:2512:ARG:HB3	1:J:2460:PHE:HE1	1.70	0.55
1:I:337:ASN:HB3	1:I:339:TYR:O	2.06	0.55
1:J:1122:TYR:CE2	1:J:1146:LYS:HG2	2.41	0.55
1:J:2412:ILE:HD12	1:J:2475:ILE:HB	1.87	0.55
1:J:455:THR:HG21	1:J:508:TYR:CD2	2.41	0.55
1:J:79:HIS:ND1	1:J:1802:PRO:HB3	2.21	0.55

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:41:SER:OG	1:C:41:SER:O	2.18	0.55
1:C:452:LEU:HD22	1:C:456:ILE:HG21	1.87	0.55
1:D:2106:ASN:ND2	1:D:2189:ARG:HD2	2.21	0.55
1:D:231:MET:HG3	1:D:898:VAL:HG23	1.89	0.55
1:D:370:ILE:HG12	1:D:410:LEU:HD22	1.87	0.55
1:E:2019:PHE:CE1	1:E:2280:TYR:HB2	2.42	0.55
1:F:1471:ILE:HB	1:F:1483:VAL:HB	1.87	0.55
1:F:1708:TYR:CZ	1:F:1717:ASP:HB3	2.42	0.55
1:G:1284:ASN:HA	1:G:1287:ARG:HD2	1.88	0.55
1:F:1429:THR:HG21	1:J:101:SER:HA	1.88	0.55
1:J:2033:LEU:HD11	1:J:2266:TYR:HA	1.89	0.55
1:J:193:ARG:HG2	1:J:250:ILE:HD11	1.88	0.55
1:A:844:ASN:H	1:B:564:ARG:NH2	1.99	0.55
1:A:66:ILE:HD11	1:A:88:GLU:HB3	1.88	0.55
1:B:1760:PHE:CG	1:B:1820:PRO:HG3	2.41	0.55
1:C:1497:LYS:HB3	1:C:1558:PHE:HB2	1.89	0.55
1:C:467:GLN:N	1:C:467:GLN:OE1	2.39	0.55
1:D:195:SER:O	1:D:198:THR:HG22	2.06	0.55
1:E:15:GLN:HB3	1:E:16:CYS:HB2	1.89	0.55
1:E:2351:PHE:HB2	1:E:2356:GLU:HG3	1.88	0.55
1:F:1353:ILE:HG22	1:F:1355:PRO:HD3	1.89	0.55
1:F:1385:PHE:CB	1:F:1409:GLN:HA	2.37	0.55
1:F:1660:TRP:CH2	1:F:1928:GLN:HA	2.41	0.55
1:F:2187:ARG:NH2	1:J:2111:GLU:OE1	2.40	0.55
1:G:2409:ILE:HG13	1:G:2516:LYS:HG3	1.86	0.55
1:G:964:ARG:HE	1:G:975:ASN:ND2	2.05	0.55
1:G:994:GLN:O	1:G:998:ASN:ND2	2.38	0.55
1:H:1122:TYR:HE2	1:H:1146:LYS:HG2	1.70	0.55
1:H:22:THR:HG23	1:H:52:ALA:HA	1.87	0.55
1:H:197:ALA:HA	1:H:448:ARG:HH22	1.72	0.55
1:H:135:VAL:HG21	1:H:958:ALA:HB3	1.87	0.55
1:I:1168:TYR:CD2	1:I:1202:HIS:HB3	2.42	0.55
1:I:1391:LEU:HD11	1:I:1406:PRO:HD2	1.87	0.55
1:I:528:TYR:HE1	1:I:547:ARG:HD3	1.71	0.55
1:J:1760:PHE:CG	1:J:1820:PRO:HG3	2.41	0.55
1:J:2068:LEU:CD1	1:J:2227:LEU:HB3	2.37	0.55
1:J:2393:PHE:CE1	1:J:2482:LEU:HB2	2.42	0.55
1:A:118:TYR:HB2	1:A:1031:TRP:CE3	2.42	0.55
1:B:1021:TRP:HA	1:B:1025:ASN:HB2	1.88	0.55
1:B:1607:THR:HG22	1:B:1764:ASN:HD22	1.72	0.55
1:C:2281:ARG:HG2	1:C:2289:ALA:HB3	1.88	0.55

*Continued on next page...*



*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1400:ASN:HB3	1:E:1402:LEU:H	1.71	0.55
1:E:1497:LYS:HB3	1:E:1558:PHE:HB2	1.87	0.55
1:E:361:ASN:OD1	1:E:362:PHE:N	2.38	0.55
1:F:181:ASN:OD1	1:F:182:TYR:N	2.38	0.55
1:I:1097:TYR:HB2	1:I:1160:PRO:O	2.07	0.55
1:I:1257:ASP:OD1	1:I:1258:SER:N	2.33	0.55
1:J:1126:VAL:HB	1:J:1141:TRP:CZ3	2.41	0.55
1:J:1865:ASP:OD1	1:J:1883:TYR:OH	2.24	0.55
1:J:361:ASN:OD1	1:J:362:PHE:N	2.39	0.55
1:A:1166:ARG:HB2	1:E:1614:VAL:HG11	1.88	0.55
1:A:2142:PRO:HB2	1:A:2145:PHE:CZ	2.42	0.55
1:A:273:PRO:HG3	1:A:434:TYR:HE2	1.70	0.55
1:B:1104:ASP:HA	1:B:1598:TRP:HZ2	1.72	0.55
1:B:1172:LEU:HD11	1:B:1221:ILE:HD11	1.89	0.55
1:C:1633:GLN:HB3	1:C:1755:SER:HB2	1.88	0.55
1:F:2312:LEU:O	1:F:2316:GLN:HG3	2.07	0.55
1:H:192:PHE:HD2	1:H:198:THR:HG21	1.72	0.55
1:H:2106:ASN:OD1	1:H:2107:ILE:HG13	2.07	0.55
1:H:2398:ILE:HB	1:H:2477:ILE:HG21	1.89	0.55
1:I:1260:LYS:HA	1:I:1287:ARG:HH12	1.72	0.55
1:I:1321:ASP:HB3	1:I:1569:SER:HB3	1.88	0.55
1:I:1439:PRO:HG2	1:I:1470:TYR:HD1	1.72	0.55
1:I:467:GLN:N	1:I:467:GLN:OE1	2.40	0.55
1:I:582:LEU:HA	1:I:585:LEU:HD12	1.89	0.55
1:J:1400:ASN:HB3	1:J:1402:LEU:H	1.71	0.55
1:J:2361:VAL:HG12	1:J:2491:MET:HB2	1.89	0.55
1:J:341:MET:SD	1:J:342:ASP:N	2.80	0.55
1:A:1321:ASP:HA	1:E:1810:GLN:NE2	2.13	0.55
1:A:2229:THR:O	1:A:2233:GLN:HG2	2.07	0.55
1:B:81:ALA:H	1:B:1816:TRP:HH2	1.55	0.55
1:C:142:ARG:HD2	1:C:971:LEU:O	2.07	0.55
1:C:1997:SER:OG	1:D:2235:GLN:NE2	2.39	0.55
1:D:2427:GLN:HG2	1:D:2500:MET:HE2	1.88	0.55
1:F:1217:VAL:HG22	1:F:1220:LYS:HB2	1.87	0.55
1:F:1385:PHE:HB2	1:F:1408:TYR:O	2.07	0.55
1:F:2305:LEU:HD11	1:G:2258:LEU:HB2	1.89	0.55
1:F:59:ASN:OD1	1:F:1927:ARG:NH2	2.38	0.55
1:F:232:HIS:HB2	1:F:903:ILE:HG12	1.89	0.55
1:G:1802:PRO:HB2	1:H:1002:GLU:HG2	1.89	0.55
1:H:255:ILE:HB	1:H:439:LYS:HE3	1.89	0.55
1:I:1737:PRO:HA	1:I:1738:LYS:C	2.27	0.55

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:2424:GLY:O	1:I:2427:GLN:HB2	2.07	0.55
1:J:1279:THR:HB	1:J:1282:GLN:HB2	1.89	0.55
1:A:1170:LEU:HD12	1:A:1236:CYS:SG	2.47	0.55
1:A:1294:PHE:HA	1:A:1301:ARG:CB	2.37	0.55
1:A:1423:LEU:HD23	1:A:1456:TYR:HB3	1.88	0.55
1:B:2422:LEU:H	1:B:2503:THR:CG2	2.20	0.55
1:B:36:VAL:HG21	1:B:40:LEU:HD22	1.89	0.55
1:B:771:ILE:HD11	1:B:804:LEU:HD13	1.89	0.55
1:C:830:LEU:HD21	1:C:835:LEU:HD12	1.88	0.55
1:D:1386:ILE:HB	1:D:1408:TYR:HB3	1.88	0.55
1:D:90:ILE:HD11	1:E:1453:GLY:H	1.72	0.55
1:F:1093:VAL:HG11	1:F:1110:PHE:HD2	1.72	0.55
1:F:1238:GLY:O	1:F:1305:ARG:HG3	2.06	0.55
1:G:2429:VAL:O	1:G:2451:SER:HA	2.07	0.55
1:H:1122:TYR:CE2	1:H:1146:LYS:HG2	2.42	0.55
1:H:1368:LYS:O	1:H:1372:CYS:HB2	2.06	0.55
1:I:1357:LEU:CD1	1:I:1555:PHE:HB3	2.37	0.55
1:I:2398:ILE:HB	1:I:2477:ILE:HG21	1.89	0.55
1:I:2399:ARG:HD3	1:I:2410:ARG:HH11	1.70	0.55
1:I:446:LEU:HD13	1:I:457:LEU:HD13	1.89	0.55
1:I:716:ASP:OD1	1:I:727:ALA:N	2.34	0.55
1:J:332:ARG:HD3	1:J:334:TYR:CZ	2.42	0.55
1:F:564:ARG:HH12	1:J:844:ASN:HB2	1.72	0.55
1:D:1381:LEU:HB3	1:D:1523:PRO:HB2	1.88	0.54
1:D:1604:ARG:NH1	1:D:1634:GLU:HB3	2.22	0.54
1:G:232:HIS:HB2	1:G:903:ILE:HG12	1.89	0.54
1:H:1294:PHE:HA	1:H:1301:ARG:HB2	1.89	0.54
1:H:2377:PHE:HE1	1:H:2387:LEU:HD12	1.72	0.54
1:J:1294:PHE:HD1	1:J:1301:ARG:HB2	1.72	0.54
1:J:1627:MET:HA	1:J:1630:GLN:HB2	1.88	0.54
1:A:2348:ASN:O	1:A:2350:PRO:HD3	2.07	0.54
1:B:1885:GLN:HA	1:B:1888:HIS:NE2	2.22	0.54
1:B:298:GLY:HA2	1:B:309:SER:OG	2.06	0.54
1:B:670:LEU:HB2	1:B:699:THR:HG21	1.89	0.54
1:C:1642:TYR:HE2	1:C:1691:PHE:HB2	1.70	0.54
1:C:312:GLN:OE1	1:C:329:ARG:NH1	2.41	0.54
1:D:232:HIS:CB	1:D:903:ILE:HG12	2.36	0.54
1:D:2348:ASN:O	1:D:2350:PRO:HD3	2.07	0.54
1:D:353:TYR:CE2	1:D:397:LEU:HB2	2.43	0.54
1:D:465:ASN:OD1	1:D:466:LEU:N	2.38	0.54
1:D:641:LEU:HD21	1:D:651:LEU:HD22	1.89	0.54

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1386:ILE:HG13	1:F:1410:TYR:HE1	1.72	0.54
1:F:1360:ILE:HD13	1:F:1527:GLU:HA	1.88	0.54
1:F:1103:ASN:HB3	1:F:1598:TRP:NE1	2.22	0.54
1:F:698:ALA:HB2	1:J:2256:GLY:HA3	1.87	0.54
1:F:901:ASP:HB3	1:F:904:GLN:HB3	1.89	0.54
1:G:1291:TYR:C	1:G:1293:GLN:H	2.10	0.54
1:G:142:ARG:HD2	1:G:971:LEU:O	2.06	0.54
1:G:1769:TRP:HE1	1:G:1827:TRP:HB2	1.71	0.54
1:G:36:VAL:HG21	1:G:40:LEU:HD22	1.89	0.54
1:H:458:GLU:OE1	1:H:506:ARG:NH2	2.33	0.54
1:H:737:LYS:HD3	1:H:746:VAL:HG21	1.88	0.54
1:I:1127:ASP:H	1:I:1140:ALA:HB1	1.71	0.54
1:J:1295:ASP:H	1:J:1301:ARG:HG3	1.73	0.54
1:J:2433:LEU:HB2	1:J:2448:LEU:HB3	1.89	0.54
1:A:2111:GLU:OE2	1:A:2188:ARG:NH2	2.41	0.54
1:B:2058:ASN:OD1	1:B:2238:LEU:HD11	2.06	0.54
1:A:2305:LEU:HD11	1:B:2258:LEU:HB2	1.88	0.54
1:B:41:SER:O	1:B:41:SER:OG	2.24	0.54
1:C:1468:LYS:O	1:C:1486:PRO:HG3	2.07	0.54
1:D:1113:LEU:HD13	1:D:1121:TYR:CE2	2.41	0.54
1:D:298:GLY:HA2	1:D:309:SER:OG	2.08	0.54
1:D:783:PRO:HB3	1:D:794:PRO:HB3	1.89	0.54
1:E:1475:ASP:HB2	1:E:1479:THR:H	1.71	0.54
1:E:2214:ALA:O	1:E:2217:ARG:HB3	2.07	0.54
1:E:464:VAL:CG2	1:E:477:LYS:HD2	2.38	0.54
1:E:772:ASN:HD22	1:E:822:LEU:CD1	2.21	0.54
1:E:887:LEU:HB2	1:E:889:VAL:HG12	1.89	0.54
1:F:243:ILE:HG23	1:F:247:LEU:HD22	1.89	0.54
1:G:1225:LYS:HE3	1:G:1252:GLN:HG2	1.88	0.54
1:H:1204:ARG:HH21	1:I:2126:THR:HG23	1.72	0.54
1:J:1385:PHE:HB2	1:J:1408:TYR:O	2.07	0.54
1:F:1010:SER:HB3	1:J:1811:ILE:HD11	1.89	0.54
1:J:1760:PHE:CD1	1:J:1820:PRO:HG3	2.42	0.54
1:J:2364:GLY:HA2	1:J:2377:PHE:CE2	2.42	0.54
1:F:2382:ASP:HB3	1:J:2403:PRO:HB2	1.88	0.54
1:J:2494:LYS:H	1:J:2494:LYS:HD2	1.72	0.54
1:A:192:PHE:CE2	1:A:194:PRO:HG2	2.43	0.54
1:A:2309:THR:HA	1:B:2261:ILE:HD12	1.89	0.54
1:B:1279:THR:OG1	1:B:1280:PRO:HD2	2.07	0.54
1:B:1836:ASP:O	1:B:1840:VAL:HG23	2.07	0.54
1:B:2377:PHE:HE1	1:B:2387:LEU:HD12	1.72	0.54

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:461:VAL:HG22	1:B:474:VAL:HG11	1.89	0.54
1:C:200:TYR:HE1	1:C:941:SER:HG	1.56	0.54
1:C:455:THR:HG21	1:C:508:TYR:CD2	2.42	0.54
1:D:1291:TYR:O	1:D:1292:GLN:HG2	2.08	0.54
1:D:1438:ILE:HB	1:D:1441:ALA:HB3	1.88	0.54
1:E:1692:ILE:HD13	1:E:1707:VAL:HG21	1.90	0.54
1:E:498:LEU:HD21	1:E:597:ILE:HD13	1.89	0.54
1:F:1710:THR:OG1	1:F:1715:PRO:HA	2.07	0.54
1:F:413:VAL:HG22	1:F:419:TRP:HB3	1.89	0.54
1:G:1060:LEU:HD11	1:G:1775:THR:HG23	1.89	0.54
1:G:1336:ASP:O	1:G:1338:PRO:HD3	2.07	0.54
1:G:1310:TYR:CE2	1:G:1576:LEU:HD13	2.42	0.54
1:G:1797:LYS:O	1:G:1805:TYR:OH	2.13	0.54
1:I:1188:TYR:HD1	1:J:1188:TYR:HH	1.54	0.54
1:I:2108:ASN:HB3	1:I:2111:GLU:HG3	1.88	0.54
1:I:2393:PHE:CE1	1:I:2482:LEU:HB2	2.42	0.54
1:I:600:LEU:HD21	1:I:608:LEU:HD12	1.90	0.54
1:J:1021:TRP:HA	1:J:1025:ASN:HB2	1.90	0.54
1:J:161:THR:HG21	1:J:977:VAL:HG11	1.89	0.54
1:A:1021:TRP:HA	1:A:1025:ASN:HB2	1.90	0.54
1:A:1401:LYS:NZ	1:E:1892:ASP:OD2	2.39	0.54
1:B:2296:ALA:HB1	1:B:2306:ALA:HA	1.88	0.54
1:B:30:ASN:O	1:B:34:GLN:HG2	2.07	0.54
1:D:1321:ASP:OD2	1:D:1322:TYR:N	2.41	0.54
1:D:771:ILE:HD11	1:D:804:LEU:HB3	1.88	0.54
1:E:1104:ASP:HA	1:E:1598:TRP:HZ2	1.72	0.54
1:E:1657:ASP:OD1	1:E:1658:GLU:N	2.41	0.54
1:E:614:GLU:HG3	1:E:630:LEU:HG	1.90	0.54
1:F:1213:ILE:HD13	1:F:1273:MET:HG3	1.88	0.54
1:F:1253:GLN:HB3	1:F:1296:THR:HA	1.89	0.54
1:F:1069:LEU:O	1:F:1788:ASN:ND2	2.41	0.54
1:F:1802:PRO:HB2	1:G:1002:GLU:HG2	1.89	0.54
1:G:1027:ARG:NH1	1:G:1030:THR:HG21	2.22	0.54
1:G:1291:TYR:O	1:G:1292:GLN:HG2	2.08	0.54
1:G:2497:GLN:HG2	1:G:2500:MET:SD	2.47	0.54
1:H:1498:VAL:HG11	1:H:1530:TYR:CE2	2.43	0.54
1:H:2305:LEU:HD21	1:I:2258:LEU:HD12	1.90	0.54
1:I:2459:GLN:HG3	1:I:2460:PHE:O	2.08	0.54
1:J:1086:GLU:HG3	1:J:1610:ALA:HB1	1.90	0.54
1:A:205:GLU:OE1	1:A:242:SER:OG	2.25	0.54
1:B:1167:LEU:HD22	1:B:1209:TRP:HH2	1.72	0.54

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2111:GLU:OE2	1:B:2188:ARG:NH2	2.39	0.54
1:C:2102:LEU:HB3	1:C:2192:TRP:CZ3	2.43	0.54
1:D:2388:GLN:HB3	1:D:2485:SER:HB3	1.88	0.54
1:E:1210:ASN:ND2	1:E:1211:THR:O	2.40	0.54
1:E:446:LEU:HD12	1:E:470:ILE:HD13	1.89	0.54
1:F:962:LYS:NZ	1:F:1398:SER:OG	2.37	0.54
1:F:2431:ALA:HB1	1:F:2484:LEU:HD21	1.90	0.54
1:F:370:ILE:HD12	1:F:379:VAL:HB	1.90	0.54
1:F:733:TRP:CD2	1:F:752:ILE:HD12	2.42	0.54
1:H:1357:LEU:HB3	1:H:1530:TYR:HB2	1.90	0.54
1:I:1604:ARG:NH1	1:I:1634:GLU:HB3	2.23	0.54
1:I:1633:GLN:HB3	1:I:1755:SER:HB2	1.90	0.54
1:I:1797:LYS:HE3	1:I:1804:GLY:HA3	1.88	0.54
1:I:2360:LEU:HD22	1:I:2375:LEU:HD22	1.89	0.54
1:J:1382:GLY:H	1:J:1491:THR:CG2	2.20	0.54
1:J:1737:PRO:HA	1:J:1738:LYS:C	2.27	0.54
1:J:2348:ASN:O	1:J:2350:PRO:HD3	2.08	0.54
1:B:125:GLU:HB3	1:B:1018:PHE:HE1	1.73	0.54
1:B:1353:ILE:HG22	1:B:1355:PRO:HD3	1.90	0.54
1:C:1868:TYR:O	1:C:1871:LEU:HD22	2.07	0.54
1:C:2033:LEU:HD11	1:C:2266:TYR:HA	1.89	0.54
1:C:465:ASN:HD22	1:C:471:ASN:HB2	1.72	0.54
1:D:1498:VAL:HG21	1:D:1530:TYR:CE2	2.43	0.54
1:D:1178:THR:O	1:E:2146:GLY:HA3	2.07	0.54
1:E:2393:PHE:HB3	1:E:2477:ILE:O	2.08	0.54
1:F:201:HIS:HB3	1:F:204:TYR:HB3	1.89	0.54
1:F:2118:ARG:NH2	1:G:2177:ASP:OD1	2.41	0.54
1:F:2102:LEU:HD13	1:F:2192:TRP:CZ2	2.43	0.54
1:F:2431:ALA:HB3	1:F:2450:VAL:HG13	1.90	0.54
1:F:2512:ARG:HB3	1:G:2460:PHE:CE1	2.43	0.54
1:G:1408:TYR:CG	1:G:1467:LEU:HD12	2.43	0.54
1:G:965:ASP:OD2	1:G:976:GLN:NE2	2.41	0.54
1:H:1321:ASP:HB3	1:H:1569:SER:HB3	1.90	0.54
1:I:1163:TYR:CD2	1:I:1245:LEU:HB3	2.43	0.54
1:I:2144:ILE:HG23	1:I:2149:GLY:O	2.08	0.54
1:J:1254:ASP:C	1:J:1256:LEU:H	2.10	0.54
1:J:1310:TYR:HE2	1:J:1349:LEU:HD22	1.72	0.54
1:J:2106:ASN:HB2	1:J:2189:ARG:HH11	1.70	0.54
1:A:1760:PHE:CG	1:A:1820:PRO:HG3	2.43	0.54
1:A:2121:ALA:HB2	1:B:2172:MET:HB2	1.90	0.54
1:A:2501:LEU:HA	1:A:2504:LEU:HD12	1.89	0.54

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:745:ALA:HB3	1:A:749:GLN:OE1	2.08	0.54
1:B:1122:TYR:CD2	1:B:1146:LYS:HA	2.43	0.54
1:B:1386:ILE:HD12	1:B:1408:TYR:HD1	1.72	0.54
1:C:2039:THR:O	1:C:2043:ILE:HG12	2.07	0.54
1:C:714:TRP:CD1	1:C:794:PRO:HG2	2.42	0.54
1:E:337:ASN:HB3	1:E:339:TYR:O	2.08	0.54
1:F:296:PHE:O	1:F:312:GLN:NE2	2.40	0.54
1:F:36:VAL:HG22	1:F:40:LEU:HB2	1.90	0.54
1:F:455:THR:HG21	1:F:508:TYR:CD2	2.43	0.54
1:G:170:LEU:HD13	1:G:182:TYR:HD2	1.72	0.54
1:H:464:VAL:CG2	1:H:477:LYS:HD2	2.38	0.54
1:H:892:GLN:HE22	1:I:541:GLY:HA2	1.72	0.54
1:J:1321:ASP:OD2	1:J:1322:TYR:N	2.41	0.54
1:J:991:ALA:O	1:J:995:LEU:HD13	2.08	0.54
1:A:461:VAL:HG22	1:A:474:VAL:HG11	1.89	0.54
1:A:737:LYS:HD3	1:A:746:VAL:HG21	1.89	0.54
1:B:1138:ALA:HA	1:B:1141:TRP:HD1	1.72	0.54
1:B:1111:ILE:HD11	1:B:1160:PRO:HB3	1.89	0.54
1:B:161:THR:HG22	1:B:981:ILE:O	2.08	0.54
1:D:1426:ARG:NH1	1:D:1428:THR:OG1	2.36	0.54
1:D:147:SER:HA	1:D:1906:ARG:HE	1.73	0.54
1:C:2059:GLN:HB2	1:D:2233:GLN:CD	2.28	0.54
1:D:488:TYR:CZ	1:D:597:ILE:HD12	2.43	0.54
1:E:1012:VAL:HG13	1:E:1015:ARG:HD2	1.90	0.54
1:E:1121:TYR:O	1:E:1147:ILE:HG12	2.08	0.54
1:E:1388:TYR:CD1	1:E:1406:PRO:HG2	2.43	0.54
1:E:1411:SER:HA	1:E:1415:SER:CB	2.38	0.54
1:E:955:ALA:HB1	1:E:961:ILE:HD12	1.88	0.54
1:F:714:TRP:CE3	1:F:762:LEU:HD22	2.43	0.54
1:H:1295:ASP:N	1:H:1301:ARG:HG3	2.23	0.54
1:H:138:LEU:HD11	1:H:993:ILE:HG12	1.90	0.54
1:I:1250:TYR:CE2	1:I:1294:PHE:HB3	2.24	0.54
1:I:2273:CYS:HB3	1:I:2292:ILE:CD1	2.38	0.54
1:J:1153:PRO:HB3	1:J:1171:TRP:HB2	1.90	0.54
1:J:1336:ASP:O	1:J:1338:PRO:HD3	2.07	0.54
1:J:2099:TYR:CD2	1:J:2195:GLN:HB3	2.43	0.54
1:A:1498:VAL:HG11	1:A:1530:TYR:CD2	2.43	0.54
1:B:1610:ALA:O	1:B:1614:VAL:HG23	2.08	0.54
1:C:153:GLN:O	1:C:157:ILE:HG12	2.08	0.54
1:C:2258:LEU:HA	1:C:2261:ILE:CG2	2.38	0.54
1:C:534:GLU:O	1:C:580:ASN:HB2	2.08	0.54

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2280:TYR:OH	1:D:2324:ARG:NH1	2.41	0.54
1:E:1239:TYR:HD2	1:E:1242:GLU:H	1.55	0.54
1:F:1319:ARG:HH21	1:F:1333:TYR:HA	1.73	0.54
1:H:1704:HIS:HD2	1:H:1726:VAL:HG23	1.70	0.54
1:H:2431:ALA:HB3	1:H:2450:VAL:CG1	2.38	0.54
1:I:1704:HIS:HD2	1:I:1726:VAL:HG23	1.73	0.54
1:I:237:LEU:HB2	1:I:479:PHE:HB2	1.90	0.54
1:I:497:ILE:HD13	1:I:589:TYR:CD2	2.37	0.54
1:J:1721:TRP:HA	1:J:1740:ILE:HD12	1.90	0.54
1:J:453:SER:HB3	1:J:456:ILE:HG12	1.90	0.54
1:J:206:ASN:OD1	1:J:934:LEU:HD11	2.08	0.54
1:A:283:LYS:HG3	1:A:288:LEU:O	2.08	0.53
1:A:497:ILE:HD13	1:A:589:TYR:CD2	2.39	0.53
1:B:1400:ASN:HB3	1:B:1402:LEU:H	1.73	0.53
1:B:1744:PHE:HD1	1:B:1747:VAL:CG2	2.21	0.53
1:B:1779:VAL:HG11	1:B:1795:TRP:CD2	2.43	0.53
1:B:2336:SER:HB2	1:B:2506:ASP:OD1	2.08	0.53
1:C:1351:ILE:HG23	1:C:1537:ILE:HB	1.89	0.53
1:C:161:THR:HG21	1:C:977:VAL:HG11	1.90	0.53
1:C:2056:LEU:HD11	1:D:2237:GLN:HE21	1.73	0.53
1:C:2445:CYS:HB3	1:C:2471:PRO:HA	1.90	0.53
1:D:1117:ASP:OD2	1:E:1211:THR:HB	2.07	0.53
1:E:1233:GLY:HA3	1:E:1250:TYR:HB2	1.90	0.53
1:E:2106:ASN:HB2	1:E:2189:ARG:HH11	1.73	0.53
1:E:2291:PHE:CG	1:E:2317:MET:HG3	2.43	0.53
1:E:640:TRP:CD2	1:E:802:ILE:HG22	2.42	0.53
1:F:125:GLU:HB3	1:F:1018:PHE:HE1	1.74	0.53
1:F:1646:VAL:HB	1:F:1745:GLU:HB3	1.90	0.53
1:G:1093:VAL:H	1:G:1594:GLN:HE22	1.56	0.53
1:G:1284:ASN:O	1:G:1287:ARG:HG2	2.08	0.53
1:G:380:ARG:NH1	1:G:382:GLU:OE1	2.41	0.53
1:I:1471:ILE:HB	1:I:1483:VAL:HB	1.90	0.53
1:I:714:TRP:CD1	1:I:794:PRO:HG2	2.43	0.53
1:J:1385:PHE:HB3	1:J:1409:GLN:HA	1.90	0.53
1:A:1495:PRO:O	1:A:1513:ALA:HB3	2.07	0.53
1:B:2095:ARG:HD3	1:C:2198:ASN:ND2	2.23	0.53
1:C:850:SER:O	1:C:854:GLN:HG3	2.08	0.53
1:D:23:ASP:O	1:D:26:HIS:ND1	2.41	0.53
1:E:176:GLU:HG2	1:E:954:VAL:HG22	1.89	0.53
1:E:341:MET:SD	1:E:342:ASP:N	2.81	0.53
1:E:353:TYR:HE2	1:E:402:ILE:HD11	1.74	0.53

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:1104:ASP:HA	1:H:1598:TRP:CZ2	2.43	0.53
1:I:2040:LEU:HB2	1:I:2258:LEU:HD22	1.91	0.53
1:I:2281:ARG:HG2	1:I:2289:ALA:HB3	1.90	0.53
1:J:667:ILE:HD11	1:J:757:GLN:HG3	1.90	0.53
1:A:130:HIS:CD2	1:A:136:TYR:HB2	2.43	0.53
1:A:1737:PRO:HA	1:A:1738:LYS:C	2.28	0.53
1:A:1141:TRP:CD1	1:A:1763:ALA:HA	2.42	0.53
1:A:1807:VAL:HB	1:A:1812:GLN:OE1	2.08	0.53
1:A:2255:ARG:O	1:A:2255:ARG:HG2	2.08	0.53
1:B:565:LEU:HB2	1:B:602:ILE:HD13	1.90	0.53
1:E:1604:ARG:NH2	1:E:1756:GLU:OE2	2.42	0.53
1:E:2412:ILE:HD12	1:E:2475:ILE:HB	1.91	0.53
1:F:1127:ASP:H	1:F:1140:ALA:HB1	1.72	0.53
1:F:2107:ILE:HG23	1:F:2111:GLU:HB2	1.91	0.53
1:F:542:SER:H	1:J:892:GLN:HE22	1.56	0.53
1:G:1121:TYR:O	1:G:1147:ILE:HG12	2.08	0.53
1:G:341:MET:SD	1:G:342:ASP:N	2.81	0.53
1:G:600:LEU:HD21	1:G:608:LEU:HD12	1.91	0.53
1:G:67:LEU:HD12	1:G:1039:TYR:HE2	1.72	0.53
1:H:1321:ASP:OD2	1:H:1322:TYR:N	2.42	0.53
1:H:1777:MET:HE2	1:H:1799:VAL:HG11	1.90	0.53
1:I:1642:TYR:HE2	1:I:1691:PHE:HB2	1.74	0.53
1:I:2291:PHE:CD2	1:I:2317:MET:HA	2.43	0.53
1:J:2424:GLY:O	1:J:2427:GLN:HB2	2.08	0.53
1:A:2281:ARG:HG2	1:A:2289:ALA:HB3	1.91	0.53
1:B:1122:TYR:CE2	1:B:1146:LYS:HG2	2.43	0.53
1:B:1159:ARG:NH2	1:B:1301:ARG:O	2.30	0.53
1:B:1360:ILE:HD13	1:B:1527:GLU:HA	1.89	0.53
1:B:657:THR:HG23	1:B:659:TYR:HE1	1.74	0.53
1:C:622:ILE:HD13	1:C:627:LEU:HD23	1.91	0.53
1:C:814:LEU:HD13	1:C:821:VAL:HG21	1.91	0.53
1:D:41:SER:HB3	1:D:44:GLU:OE1	2.08	0.53
1:D:771:ILE:HD11	1:D:804:LEU:HD13	1.89	0.53
1:F:105:ALA:HB2	1:F:1896:LEU:HD13	1.89	0.53
1:I:1741:LEU:O	1:I:1742:THR:HG22	2.08	0.53
1:I:2100:GLY:HA2	1:I:2196:ARG:HD3	1.91	0.53
1:I:41:SER:OG	1:I:41:SER:O	2.26	0.53
1:J:772:ASN:HD22	1:J:822:LEU:CD1	2.21	0.53
1:A:1381:LEU:HD13	1:A:1382:GLY:N	2.24	0.53
1:A:102:GLN:NE2	1:A:1901:THR:HG23	2.23	0.53
1:A:441:ASN:HD21	1:A:445:ARG:NH1	2.06	0.53

*Continued on next page...*



*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:930:GLN:HA	1:A:933:THR:HG22	1.91	0.53
1:B:1400:ASN:HB3	1:B:1402:LEU:HB2	1.89	0.53
1:B:1513:ALA:HA	1:B:1532:PHE:HE2	1.73	0.53
1:B:568:ILE:HD13	1:B:605:LEU:HD12	1.91	0.53
1:C:2257:ARG:O	1:C:2261:ILE:HG22	2.08	0.53
1:D:1248:MET:CE	1:D:1286:TYR:HB2	2.38	0.53
1:E:1885:GLN:HA	1:E:1888:HIS:NE2	2.24	0.53
1:E:353:TYR:CD2	1:E:397:LEU:HD12	2.43	0.53
1:F:1516:ASP:HB2	1:F:1532:PHE:HD2	1.73	0.53
1:F:1647:ILE:HB	1:F:1686:ILE:HB	1.90	0.53
1:F:2072:ASP:HA	1:F:2075:ILE:HG12	1.90	0.53
1:G:2106:ASN:HB2	1:G:2189:ARG:NH1	2.23	0.53
1:H:1312:ILE:HD13	1:H:1351:ILE:HD12	1.90	0.53
1:H:1385:PHE:HB2	1:H:1408:TYR:O	2.08	0.53
1:I:2102:LEU:HB3	1:I:2192:TRP:CZ3	2.43	0.53
1:J:319:ASN:HB3	1:J:322:ASP:HB2	1.91	0.53
1:A:1279:THR:OG1	1:A:1280:PRO:HD2	2.08	0.53
1:A:2431:ALA:HB3	1:A:2450:VAL:HG13	1.90	0.53
1:A:2018:ARG:NH2	1:A:2468:LYS:O	2.42	0.53
1:B:1321:ASP:OD2	1:B:1322:TYR:N	2.42	0.53
1:B:1657:ASP:OD1	1:B:1658:GLU:N	2.42	0.53
1:B:318:VAL:HG12	1:B:325:VAL:HG22	1.91	0.53
1:B:969:GLN:OE1	1:B:999:ARG:NE	2.41	0.53
1:C:1413:ASN:OD1	1:C:1414:THR:N	2.42	0.53
1:D:1375:MET:SD	1:D:1385:PHE:HE1	2.32	0.53
1:D:1797:LYS:O	1:D:1805:TYR:OH	2.22	0.53
1:D:41:SER:OG	1:D:41:SER:O	2.25	0.53
1:D:464:VAL:CG2	1:D:477:LYS:HD2	2.39	0.53
1:E:2457:SER:HB3	1:E:2462:LEU:HD22	1.91	0.53
1:E:565:LEU:HB2	1:E:602:ILE:HD13	1.90	0.53
1:F:1321:ASP:HB3	1:F:1569:SER:HB3	1.91	0.53
1:F:2329:LEU:HB2	1:F:2515:ILE:HB	1.91	0.53
1:G:28:SER:OG	1:G:31:GLU:HG3	2.09	0.53
1:H:2161:THR:O	1:H:2165:MET:HG2	2.08	0.53
1:H:897:LEU:HD11	1:H:922:LEU:HD11	1.90	0.53
1:J:1111:ILE:HG13	1:J:1160:PRO:HG3	1.91	0.53
1:J:143:PRO:HA	1:J:146:LYS:HE2	1.91	0.53
1:A:2336:SER:HB2	1:A:2506:ASP:OD1	2.09	0.53
1:B:1336:ASP:O	1:B:1338:PRO:HD3	2.08	0.53
1:B:1642:TYR:OH	1:B:1756:GLU:HG3	2.08	0.53
1:B:2494:LYS:HD2	1:B:2494:LYS:H	1.74	0.53

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:488:TYR:CZ	1:B:597:ILE:HD12	2.43	0.53
1:C:1321:ASP:HB3	1:C:1569:SER:HB3	1.89	0.53
1:C:2422:LEU:HB2	1:C:2503:THR:HG21	1.91	0.53
1:C:2494:LYS:HD2	1:C:2494:LYS:H	1.73	0.53
1:C:481:THR:O	1:C:485:MET:HG2	2.09	0.53
1:D:1090:ASN:HD21	1:D:1610:ALA:HB3	1.74	0.53
1:G:1909:ARG:NH2	1:G:1942:ASN:OD1	2.41	0.53
1:G:498:LEU:HD11	1:G:593:LEU:HB3	1.89	0.53
1:H:111:SER:HB3	1:H:114:SER:HB3	1.89	0.53
1:I:1649:PRO:HB3	1:I:1684:THR:HA	1.89	0.53
1:I:446:LEU:HD12	1:I:447:SER:N	2.24	0.53
1:J:2419:LEU:N	1:J:2453:GLY:O	2.29	0.53
1:J:911:THR:HB	1:J:914:GLN:H	1.74	0.53
1:A:1648:PRO:O	1:A:1681:LEU:HD11	2.09	0.53
1:A:2361:VAL:HG12	1:A:2491:MET:HB2	1.91	0.53
1:B:1168:TYR:CD2	1:B:1202:HIS:HB3	2.43	0.53
1:C:1797:LYS:O	1:C:1805:TYR:OH	2.14	0.53
1:D:68:LYS:HZ3	1:D:1040:TYR:HE2	1.57	0.53
1:E:1227:GLU:HG3	1:E:1230:ARG:HG2	1.90	0.53
1:E:1353:ILE:HG22	1:E:1355:PRO:HD3	1.89	0.53
1:E:1381:LEU:HD13	1:E:1382:GLY:N	2.24	0.53
1:E:461:VAL:HG22	1:E:474:VAL:HG11	1.91	0.53
1:F:1122:TYR:CE2	1:F:1146:LYS:HG2	2.44	0.53
1:F:1295:ASP:N	1:F:1301:ARG:HG3	2.23	0.53
1:F:237:LEU:HB2	1:F:479:PHE:HB2	1.91	0.53
1:F:471:ASN:HB3	1:F:474:VAL:HG23	1.90	0.53
1:G:1959:TYR:HA	1:G:1962:THR:HG22	1.91	0.53
1:G:2111:GLU:OE2	1:G:2188:ARG:NH2	2.38	0.53
1:I:1284:ASN:O	1:I:1287:ARG:HG2	2.09	0.53
1:I:557:ILE:HG22	1:I:558:ASP:O	2.08	0.53
1:A:2039:THR:O	1:A:2043:ILE:HG12	2.09	0.53
1:B:1641:PHE:HB3	1:B:1692:ILE:O	2.07	0.53
1:B:1649:PRO:HB3	1:B:1684:THR:HA	1.91	0.53
1:B:1777:MET:HE1	1:B:1852:THR:HG23	1.91	0.53
1:C:1090:ASN:HD21	1:C:1610:ALA:HB3	1.73	0.53
1:C:1410:TYR:CZ	1:C:1464:PRO:HB3	2.44	0.53
1:C:1514:ASP:OD2	1:C:1515:LYS:N	2.41	0.53
1:D:1345:ALA:HB3	1:D:1348:ASP:HB3	1.90	0.53
1:E:1653:SER:N	1:E:1713:LYS:HE3	2.24	0.53
1:E:1821:LEU:HD23	1:E:1845:PRO:HB3	1.91	0.53
1:E:1816:TRP:CZ2	1:E:1849:LYS:HD3	2.44	0.53

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2154:TRP:NE1	1:E:2142:PRO:O	2.33	0.53
1:F:2229:THR:O	1:F:2233:GLN:HG2	2.08	0.53
1:G:1260:LYS:HA	1:G:1287:ARG:NH1	2.21	0.53
1:G:1737:PRO:HA	1:G:1738:LYS:C	2.29	0.53
1:H:1126:VAL:HB	1:H:1141:TRP:CZ3	2.44	0.53
1:H:1233:GLY:HA3	1:H:1250:TYR:HB2	1.91	0.53
1:H:1411:SER:HA	1:H:1415:SER:HB2	1.91	0.53
1:H:1411:SER:HB2	1:H:1419:GLN:HA	1.91	0.53
1:H:1357:LEU:HD12	1:H:1555:PHE:HB3	1.91	0.53
1:H:629:THR:HG23	1:H:632:ARG:NH1	2.24	0.53
1:I:1111:ILE:HD11	1:I:1160:PRO:HB3	1.91	0.53
1:I:1704:HIS:CD2	1:I:1726:VAL:HG23	2.44	0.53
1:I:195:SER:O	1:I:198:THR:HG22	2.08	0.53
1:I:326:LYS:NZ	1:I:430:GLU:HB3	2.24	0.53
1:I:964:ARG:NH1	1:I:976:GLN:HG2	2.23	0.53
1:J:318:VAL:HG12	1:J:325:VAL:HG22	1.91	0.53
1:I:2253:TRP:HA	1:J:698:ALA:HB1	1.90	0.53
1:A:1408:TYR:OH	1:A:1420:GLY:HA3	2.09	0.53
1:A:520:ASN:HD21	1:A:528:TYR:H	1.57	0.53
1:A:65:ARG:NH1	1:A:88:GLU:OE2	2.42	0.53
1:B:1423:LEU:HD23	1:B:1456:TYR:HB3	1.91	0.53
1:B:348:PHE:HE1	1:B:354:ARG:HD3	1.74	0.53
1:B:2118:ARG:HE	1:C:2176:ALA:HB1	1.74	0.53
1:C:520:ASN:HD21	1:C:528:TYR:HB2	1.73	0.53
1:E:41:SER:OG	1:E:41:SER:O	2.24	0.53
1:F:1770:GLU:HA	1:F:1774:TYR:HB2	1.91	0.53
1:F:797:ASP:H	1:F:800:SER:HB2	1.73	0.53
1:H:1057:MET:HE2	1:H:1774:TYR:HB3	1.90	0.53
1:H:1121:TYR:O	1:H:1147:ILE:HG12	2.09	0.53
1:H:237:LEU:HB2	1:H:479:PHE:HB2	1.90	0.53
1:H:534:GLU:HB2	1:H:580:ASN:ND2	2.24	0.53
1:I:1350:LYS:NZ	1:I:1536:GLU:HB2	2.24	0.53
1:I:2348:ASN:O	1:I:2350:PRO:HD3	2.09	0.53
1:J:1650:TYR:HE1	1:J:1654:THR:HA	1.74	0.53
1:J:171:GLU:OE1	1:J:182:TYR:OH	2.26	0.53
1:B:1357:LEU:CD1	1:B:1555:PHE:HB3	2.40	0.52
1:B:366:SER:OG	1:B:415:PRO:HD3	2.10	0.52
1:C:1659:ARG:NH1	1:C:1929:ASN:OD1	2.43	0.52
1:C:332:ARG:HD3	1:C:334:TYR:CZ	2.44	0.52
1:E:465:ASN:OD1	1:E:466:LEU:N	2.41	0.52
1:F:1291:TYR:O	1:F:1292:GLN:HG2	2.09	0.52

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1425:HIS:ND1	1:F:1454:ASP:OD1	2.42	0.52
1:F:465:ASN:OD1	1:F:466:LEU:N	2.42	0.52
1:G:1836:ASP:HB3	1:G:1839:ALA:HB3	1.90	0.52
1:G:514:GLN:HA	1:G:517:ARG:NH1	2.24	0.52
1:I:1381:LEU:HD13	1:I:1382:GLY:N	2.24	0.52
1:J:106:PRO:HB3	1:J:1951:GLN:NE2	2.24	0.52
1:J:1353:ILE:HG22	1:J:1355:PRO:HD3	1.90	0.52
1:I:2087:LYS:HD3	1:J:2204:LYS:HB3	1.91	0.52
1:A:129:LEU:HD11	1:A:1018:PHE:CE2	2.45	0.52
1:A:30:ASN:O	1:A:34:GLN:HG2	2.10	0.52
1:A:380:ARG:NH1	1:A:382:GLU:OE1	2.42	0.52
1:A:353:TYR:HE2	1:A:397:LEU:HB2	1.73	0.52
1:A:520:ASN:ND2	1:A:528:TYR:H	2.06	0.52
1:D:1012:VAL:HG13	1:D:1015:ARG:HD2	1.90	0.52
1:D:201:HIS:HB3	1:D:204:TYR:HB3	1.90	0.52
1:D:2512:ARG:HB3	1:E:2460:PHE:HE1	1.72	0.52
1:D:608:LEU:O	1:D:612:VAL:HG23	2.10	0.52
1:D:850:SER:O	1:D:854:GLN:HG3	2.09	0.52
1:E:142:ARG:NH1	1:E:144:ASP:OD2	2.42	0.52
1:E:353:TYR:HD2	1:E:397:LEU:HD12	1.75	0.52
1:E:733:TRP:NE1	1:E:748:THR:HB	2.24	0.52
1:E:718:LEU:HD23	1:E:793:ALA:HB1	1.91	0.52
1:F:1336:ASP:O	1:F:1338:PRO:HD3	2.09	0.52
1:F:1650:TYR:O	1:F:1651:ASN:HB2	2.09	0.52
1:F:2273:CYS:HB3	1:F:2292:ILE:CD1	2.39	0.52
1:G:1385:PHE:HB2	1:G:1408:TYR:O	2.08	0.52
1:G:1312:ILE:HD11	1:G:1574:VAL:HG22	1.90	0.52
1:I:1651:ASN:CG	1:I:1652:LEU:HA	2.29	0.52
1:I:453:SER:HB3	1:I:456:ILE:HG12	1.91	0.52
1:J:1413:ASN:OD1	1:J:1414:THR:N	2.41	0.52
1:J:146:LYS:O	1:J:1908:ASP:HB2	2.09	0.52
1:J:299:LYS:HG2	1:J:309:SER:HB3	1.90	0.52
1:F:1452:ILE:HD12	1:J:90:ILE:HA	1.90	0.52
1:A:1117:ASP:OD1	1:A:1118:ALA:N	2.41	0.52
1:B:1640:GLY:HA2	1:B:1691:PHE:HE1	1.75	0.52
1:B:2237:GLN:O	1:B:2240:PHE:HB3	2.08	0.52
1:B:852:GLN:HG3	1:B:891:PRO:HB2	1.90	0.52
1:E:2364:GLY:HA2	1:E:2377:PHE:HE2	1.74	0.52
1:E:23:ASP:O	1:E:26:HIS:ND1	2.41	0.52
1:F:1411:SER:HB3	1:F:1419:GLN:HA	1.91	0.52
1:G:1390:SER:HB3	1:G:1484:SER:HB2	1.91	0.52

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1360:ILE:HD13	1:G:1527:GLU:HA	1.90	0.52
1:G:503:ILE:HB	1:G:582:LEU:HD11	1.90	0.52
1:H:1283:SER:O	1:H:1287:ARG:HB3	2.10	0.52
1:H:378:LEU:HD13	1:H:395:ILE:HG21	1.91	0.52
1:J:1868:TYR:O	1:J:1871:LEU:HD22	2.10	0.52
1:J:2229:THR:O	1:J:2233:GLN:HG2	2.08	0.52
1:J:2291:PHE:CD2	1:J:2317:MET:HG3	2.44	0.52
1:J:2399:ARG:HD3	1:J:2410:ARG:HH11	1.75	0.52
1:A:1061:LEU:HA	1:A:1064:VAL:HG12	1.90	0.52
1:A:1710:THR:OG1	1:A:1715:PRO:HA	2.09	0.52
1:B:1403:MET:HA	1:B:1481:THR:OG1	2.09	0.52
1:B:1604:ARG:NH1	1:B:1634:GLU:HB3	2.25	0.52
1:C:1380:LYS:HD2	1:C:1414:THR:OG1	2.10	0.52
1:D:1711:PHE:CE1	1:D:1714:SER:HB3	2.44	0.52
1:E:1289:ASN:HB2	1:E:1306:TYR:HE2	1.73	0.52
1:E:2033:LEU:CD1	1:E:2266:TYR:HA	2.40	0.52
1:F:1704:HIS:CE1	1:F:1727:ARG:HB3	2.45	0.52
1:F:1611:ARG:HD2	1:G:1271:ALA:HB1	1.92	0.52
1:G:1616:ARG:NH2	1:G:1628:GLU:HB2	2.23	0.52
1:G:2203:LEU:O	1:G:2207:ASP:HB2	2.09	0.52
1:G:714:TRP:CD1	1:G:794:PRO:HG2	2.44	0.52
1:H:363:TYR:CZ	1:H:414:LEU:HD23	2.45	0.52
1:H:79:HIS:ND1	1:H:1802:PRO:HB3	2.25	0.52
1:I:1158:ILE:HD11	1:I:1169:LEU:HD13	1.92	0.52
1:I:1220:LYS:HG2	1:I:1265:GLN:HB3	1.92	0.52
1:I:1413:ASN:OD1	1:I:1414:THR:N	2.42	0.52
1:G:1117:ASP:OD2	1:I:2134:ALA:HA	2.09	0.52
1:J:1070:ASN:OD1	1:J:1071:ALA:N	2.42	0.52
1:J:2009:LEU:HD22	1:J:2294:PRO:HD3	1.91	0.52
1:J:2448:LEU:HB2	1:J:2472:PHE:HE1	1.75	0.52
1:J:2452:HIS:ND1	1:J:2456:ASP:HB3	2.25	0.52
1:I:840:ASN:HB3	1:J:649:PHE:CE2	2.43	0.52
1:B:2337:LEU:HD22	1:B:2391:VAL:HG21	1.91	0.52
1:B:2393:PHE:HB3	1:B:2477:ILE:O	2.10	0.52
1:C:1821:LEU:HD22	1:C:1845:PRO:HB3	1.90	0.52
1:D:2033:LEU:HD11	1:D:2266:TYR:HA	1.91	0.52
1:E:1279:THR:OG1	1:E:1280:PRO:HD2	2.09	0.52
1:E:1641:PHE:HD1	1:E:1692:ILE:HB	1.73	0.52
1:E:534:GLU:O	1:E:580:ASN:HB2	2.10	0.52
1:F:1220:LYS:HG2	1:F:1265:GLN:HB3	1.91	0.52
1:F:2361:VAL:HG12	1:F:2491:MET:HB2	1.92	0.52

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:153:GLN:O	1:G:157:ILE:HG12	2.10	0.52
1:H:1060:LEU:HD11	1:H:1775:THR:HG23	1.90	0.52
1:H:622:ILE:HD13	1:H:627:LEU:HD23	1.92	0.52
1:I:2183:GLU:OE1	1:I:2186:ARG:NH1	2.42	0.52
1:I:322:ASP:HB2	1:I:324:THR:HG22	1.91	0.52
1:I:709:HIS:O	1:I:713:LEU:HG	2.10	0.52
1:J:1225:LYS:HE3	1:J:1252:GLN:HG2	1.92	0.52
1:J:204:TYR:OH	1:J:238:GLY:O	2.25	0.52
1:A:2393:PHE:CE1	1:A:2482:LEU:HB2	2.42	0.52
1:B:1295:ASP:HB3	1:B:1301:ARG:HE	1.75	0.52
1:B:464:VAL:CG2	1:B:477:LYS:HD2	2.39	0.52
1:D:1551:ILE:HB	1:D:1572:ILE:HB	1.90	0.52
1:D:2055:LEU:O	1:D:2059:GLN:HG2	2.10	0.52
1:D:331:THR:HB	1:D:427:THR:HB	1.92	0.52
1:D:467:GLN:N	1:D:467:GLN:OE1	2.42	0.52
1:E:2422:LEU:O	1:E:2423:LEU:HD23	2.10	0.52
1:G:2337:LEU:HD22	1:G:2391:VAL:HG21	1.91	0.52
1:F:892:GLN:HE22	1:G:542:SER:N	2.06	0.52
1:H:1086:GLU:HG3	1:H:1610:ALA:HB1	1.91	0.52
1:I:1130:LYS:HB2	1:I:1140:ALA:HB2	1.90	0.52
1:I:534:GLU:O	1:I:580:ASN:HB2	2.10	0.52
1:J:1359:ILE:HD13	1:J:1565:LEU:HD12	1.92	0.52
1:J:1741:LEU:HD23	1:J:1742:THR:N	2.23	0.52
1:F:698:ALA:HB1	1:J:2253:TRP:HA	1.92	0.52
1:J:232:HIS:CB	1:J:903:ILE:HG12	2.40	0.52
1:A:1636:GLN:O	1:A:1637:LEU:HG	2.10	0.52
1:B:1248:MET:HE1	1:B:1286:TYR:HB2	1.91	0.52
1:B:363:TYR:CE1	1:B:414:LEU:HD23	2.45	0.52
1:C:1113:LEU:HD13	1:C:1121:TYR:CE2	2.44	0.52
1:C:458:GLU:CD	1:C:506:ARG:HH22	2.13	0.52
1:D:278:MET:SD	1:D:1478:GLY:HA2	2.50	0.52
1:D:2280:TYR:CE1	1:D:2321:HIS:HB2	2.45	0.52
1:E:1093:VAL:N	1:E:1594:GLN:HE22	2.08	0.52
1:E:1885:GLN:HA	1:E:1888:HIS:CD2	2.44	0.52
1:F:1868:TYR:CD2	1:F:1976:ILE:HG13	2.45	0.52
1:F:1868:TYR:O	1:F:1871:LEU:HD22	2.09	0.52
1:G:1642:TYR:CE2	1:G:1691:PHE:HB2	2.43	0.52
1:G:1769:TRP:NE1	1:G:1827:TRP:HB2	2.24	0.52
1:G:232:HIS:CB	1:G:903:ILE:HG12	2.39	0.52
1:H:1498:VAL:HG21	1:H:1530:TYR:HE2	1.75	0.52
1:H:761:GLN:OE1	1:H:796:HIS:HE1	1.93	0.52

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:1295:ASP:H	1:I:1301:ARG:HG3	1.75	0.52
1:I:2106:ASN:HD21	1:I:2189:ARG:HB2	1.75	0.52
1:I:947:SER:CB	1:I:975:ASN:HD22	2.22	0.52
1:J:1293:GLN:O	1:J:1301:ARG:HB3	2.09	0.52
1:J:1741:LEU:CD2	1:J:1742:THR:H	2.22	0.52
1:J:464:VAL:HG21	1:J:477:LYS:HD2	1.92	0.52
1:A:231:MET:HG3	1:A:898:VAL:HG23	1.90	0.52
1:A:609:LEU:HD21	1:A:634:LEU:HD11	1.92	0.52
1:B:1355:PRO:HD2	1:B:1532:PHE:HB2	1.91	0.52
1:B:1972:HIS:HA	1:C:978:SER:OG	2.10	0.52
1:C:141:ARG:NH2	1:C:1005:GLU:OE1	2.27	0.52
1:C:1597:GLN:HG2	1:C:1602:ARG:HG2	1.92	0.52
1:E:2187:ARG:HD3	1:E:2190:GLN:OE1	2.10	0.52
1:D:2256:GLY:HA3	1:E:698:ALA:HB2	1.92	0.52
1:F:1411:SER:HA	1:F:1415:SER:HB2	1.91	0.52
1:I:1357:LEU:HD12	1:I:1555:PHE:HD2	1.74	0.52
1:I:764:MET:O	1:I:768:SER:N	2.30	0.52
1:J:197:ALA:HB3	1:J:948:THR:HG21	1.90	0.52
1:A:69:ARG:HD3	1:A:83:LEU:O	2.09	0.52
1:B:1495:PRO:HB3	1:B:1520:GLN:OE1	2.09	0.52
1:B:521:THR:HG23	1:B:522:PRO:CD	2.40	0.52
1:C:1261:ASN:H	1:C:1287:ARG:NH1	2.08	0.52
1:C:1919:HIS:CE1	1:C:1923:ILE:HD11	2.44	0.52
1:C:2147:PHE:CD2	1:D:2147:PHE:HE2	2.27	0.52
1:C:719:GLN:OE1	1:C:724:ALA:HB1	2.09	0.52
1:D:1413:ASN:OD1	1:D:1414:THR:N	2.42	0.52
1:D:2107:ILE:HG23	1:D:2111:GLU:HB2	1.90	0.52
1:F:1114:SER:OG	1:F:1120:GLU:HB2	2.09	0.52
1:F:1386:ILE:HB	1:F:1408:TYR:HB3	1.92	0.52
1:F:1443:ARG:NE	1:F:1466:ASP:OD1	2.42	0.52
1:F:2111:GLU:OE1	1:G:2187:ARG:NH2	2.41	0.52
1:G:994:GLN:NE2	1:G:1026:LYS:O	2.42	0.52
1:H:1341:ASN:O	1:H:1352:TYR:N	2.28	0.52
1:H:2431:ALA:HB3	1:H:2450:VAL:HG13	1.91	0.52
1:H:2336:SER:HB2	1:H:2506:ASP:OD1	2.10	0.52
1:H:59:ASN:OD1	1:H:1927:ARG:NH2	2.43	0.52
1:H:162:LEU:HD21	1:H:940:GLU:HA	1.92	0.52
1:I:1627:MET:HA	1:I:1630:GLN:HB2	1.92	0.52
1:I:371:LYS:HB3	1:I:373:ASN:O	2.10	0.52
1:I:521:THR:HG22	1:I:522:PRO:HD2	1.91	0.52
1:I:79:HIS:CD2	1:I:1815:GLN:HE21	2.27	0.52

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:854:GLN:HG2	1:I:862:VAL:HG12	1.90	0.52
1:J:1650:TYR:CE1	1:J:1654:THR:HA	2.45	0.52
1:A:1251:ASN:HD22	1:A:1262:ALA:HB1	1.74	0.52
1:A:2431:ALA:HB1	1:A:2484:LEU:HD21	1.92	0.52
1:A:2338:ALA:HB2	1:A:2506:ASP:HB3	1.92	0.52
1:A:733:TRP:CD2	1:A:752:ILE:HD12	2.45	0.52
1:A:161:THR:HG22	1:A:981:ILE:O	2.10	0.52
1:B:1225:LYS:HE3	1:B:1252:GLN:HG2	1.92	0.52
1:B:1289:ASN:HB2	1:B:1306:TYR:CE2	2.45	0.52
1:B:161:THR:C	1:B:163:SER:H	2.14	0.52
1:B:57:LYS:HB3	1:B:1832:LEU:HD12	1.91	0.52
1:B:520:ASN:HD21	1:B:528:TYR:HB2	1.75	0.52
1:A:892:GLN:HE22	1:B:541:GLY:C	2.13	0.52
1:C:778:LEU:HA	1:C:781:THR:HG22	1.91	0.52
1:D:67:LEU:O	1:D:103:TYR:OH	2.26	0.52
1:E:1254:ASP:O	1:E:1256:LEU:N	2.43	0.52
1:F:347:PRO:HA	1:F:353:TYR:HD1	1.75	0.52
1:G:278:MET:SD	1:G:1478:GLY:HA2	2.50	0.52
1:G:1050:ARG:HG3	1:G:1838:ASP:CG	2.31	0.52
1:G:2405:SER:N	1:H:2382:ASP:OD2	2.43	0.52
1:H:1995:LEU:HB3	1:I:2235:GLN:HG2	1.92	0.52
1:I:1836:ASP:HB3	1:I:1839:ALA:HB3	1.91	0.52
1:I:733:TRP:CD2	1:I:752:ILE:HD12	2.44	0.52
1:I:733:TRP:NE1	1:I:748:THR:HB	2.25	0.52
1:J:565:LEU:HB2	1:J:602:ILE:HD13	1.92	0.52
1:A:1503:LYS:HB2	1:A:1552:ASP:HB2	1.92	0.51
1:B:233:GLN:HB3	1:B:479:PHE:CD2	2.45	0.51
1:B:211:ILE:HG21	1:B:239:ILE:HD13	1.92	0.51
1:B:531:THR:OG1	1:B:580:ASN:ND2	2.43	0.51
1:C:1114:SER:OG	1:C:1120:GLU:HB2	2.10	0.51
1:C:557:ILE:HG22	1:C:558:ASP:O	2.10	0.51
1:D:663:LEU:HD13	1:D:668:LYS:HE3	1.92	0.51
1:D:964:ARG:NH1	1:D:976:GLN:HG2	2.25	0.51
1:A:2126:THR:HG23	1:E:1204:ARG:HH21	1.75	0.51
1:E:1633:GLN:HB3	1:E:1755:SER:HB2	1.91	0.51
1:E:366:SER:N	1:E:413:VAL:O	2.42	0.51
1:F:1149:CYS:HB2	1:F:1209:TRP:HB3	1.92	0.51
1:F:776:PHE:O	1:F:780:VAL:HG12	2.10	0.51
1:G:1117:ASP:OD1	1:G:1118:ALA:N	2.43	0.51
1:G:1380:LYS:O	1:G:1383:ASP:HB2	2.10	0.51
1:G:830:LEU:HD21	1:G:835:LEU:HD12	1.91	0.51

*Continued on next page...*



*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:998:ASN:OD1	1:H:1026:LYS:NZ	2.43	0.51
1:H:1380:LYS:HD2	1:H:1414:THR:OG1	2.10	0.51
1:H:161:THR:C	1:H:163:SER:H	2.13	0.51
1:H:714:TRP:NE1	1:H:794:PRO:HG2	2.26	0.51
1:I:1289:ASN:OD1	1:I:1308:GLU:HG3	2.10	0.51
1:I:1367:GLN:OE1	1:I:1391:LEU:HD12	2.09	0.51
1:I:2422:LEU:O	1:I:2423:LEU:HD23	2.11	0.51
1:I:441:ASN:OD1	1:I:445:ARG:NH1	2.43	0.51
1:I:464:VAL:HG21	1:I:477:LYS:HD2	1.92	0.51
1:J:2033:LEU:CD1	1:J:2266:TYR:HA	2.40	0.51
1:J:432:ASN:HB3	1:J:435:SER:HB3	1.91	0.51
1:J:714:TRP:NE1	1:J:794:PRO:HG2	2.24	0.51
1:A:1357:LEU:HB3	1:A:1530:TYR:HB2	1.92	0.51
1:A:2244:LYS:HE2	1:A:2246:SER:HB3	1.93	0.51
1:B:181:ASN:OD1	1:B:182:TYR:N	2.43	0.51
1:B:192:PHE:HD2	1:B:198:THR:HG21	1.75	0.51
1:B:2448:LEU:HB2	1:B:2472:PHE:HE1	1.76	0.51
1:B:232:HIS:HB2	1:B:903:ILE:HG12	1.92	0.51
1:C:1295:ASP:N	1:C:1301:ARG:HG3	2.25	0.51
1:C:181:ASN:OD1	1:C:182:TYR:N	2.41	0.51
1:C:111:SER:OG	1:C:1951:GLN:OE1	2.16	0.51
1:C:2413:LYS:N	1:C:2512:ARG:O	2.43	0.51
1:C:808:ALA:O	1:C:812:ASN:ND2	2.40	0.51
1:D:1024:TYR:OH	1:D:1835:VAL:HG21	2.10	0.51
1:D:1168:TYR:CD2	1:D:1202:HIS:HB3	2.46	0.51
1:D:2111:GLU:OE2	1:D:2188:ARG:NH2	2.38	0.51
1:C:1178:THR:O	1:D:2146:GLY:HA3	2.10	0.51
1:D:2183:GLU:OE1	1:D:2186:ARG:NH1	2.44	0.51
1:E:417:GLY:N	1:E:418:SER:HA	2.25	0.51
1:F:1786:GLU:OE2	1:H:2186:ARG:NH2	2.43	0.51
1:F:2224:LYS:HE2	1:F:2228:LYS:HE3	1.91	0.51
1:F:488:TYR:CD2	1:F:597:ILE:HB	2.46	0.51
1:F:832:ALA:HB2	1:F:868:PHE:CZ	2.45	0.51
1:G:1413:ASN:OD1	1:G:1414:THR:N	2.43	0.51
1:G:1868:TYR:O	1:G:1871:LEU:HD22	2.10	0.51
1:G:2229:THR:O	1:G:2233:GLN:HG2	2.10	0.51
1:G:896:ALA:O	1:G:900:LEU:HG	2.10	0.51
1:H:1658:GLU:HB3	1:H:1712:LYS:HB3	1.91	0.51
1:H:467:GLN:N	1:H:467:GLN:OE1	2.43	0.51
1:H:565:LEU:HB2	1:H:602:ILE:HD13	1.92	0.51
1:I:1542:LEU:HD22	1:I:1549:ALA:HB1	1.92	0.51

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:1760:PHE:CG	1:I:1820:PRO:HG3	2.44	0.51
1:I:2042:ASN:HD21	1:I:2046:ARG:HD2	1.74	0.51
1:I:353:TYR:CE2	1:I:397:LEU:HB2	2.45	0.51
1:J:1023:LYS:HG2	1:J:1024:TYR:CE1	2.45	0.51
1:J:141:ARG:NH2	1:J:1005:GLU:OE1	2.43	0.51
1:A:1122:TYR:HD2	1:A:1146:LYS:HA	1.76	0.51
1:A:2409:ILE:HD11	1:A:2516:LYS:HG3	1.92	0.51
1:B:1061:LEU:HD13	1:B:1778:LEU:HD11	1.92	0.51
1:B:1355:PRO:HG2	1:B:1500:ILE:HD13	1.92	0.51
1:B:612:VAL:HG11	1:B:614:GLU:HG2	1.93	0.51
1:B:745:ALA:HB3	1:B:749:GLN:OE1	2.11	0.51
1:C:1384:LYS:O	1:C:1410:TYR:HB2	2.10	0.51
1:C:586:SER:O	1:C:590:ILE:HG13	2.11	0.51
1:D:86:ASN:HB3	1:E:1453:GLY:HA3	1.92	0.51
1:E:641:LEU:HD21	1:E:651:LEU:HD22	1.91	0.51
1:F:1138:ALA:HB2	1:F:1761:SER:O	2.10	0.51
1:F:890:ALA:HB2	1:G:559:ASP:HB2	1.92	0.51
1:G:1238:GLY:O	1:G:1305:ARG:HG3	2.10	0.51
1:G:247:LEU:O	1:G:251:LEU:HG	2.11	0.51
1:H:1104:ASP:HA	1:H:1598:TRP:HZ2	1.74	0.51
1:H:2459:GLN:HG3	1:H:2460:PHE:O	2.09	0.51
1:I:1542:LEU:HD23	1:I:1543:ASN:O	2.11	0.51
1:I:147:SER:HA	1:I:1906:ARG:HE	1.75	0.51
1:I:465:ASN:ND2	1:I:471:ASN:HB2	2.25	0.51
1:I:465:ASN:HD22	1:I:471:ASN:HB2	1.73	0.51
1:I:944:ALA:HA	1:I:964:ARG:NH2	2.25	0.51
1:H:1971:ARG:NH2	1:I:974:ASP:OD2	2.27	0.51
1:I:977:VAL:HG13	1:I:981:ILE:HD12	1.91	0.51
1:F:2117:LEU:HD21	1:J:1062:GLN:NE2	2.25	0.51
1:J:1382:GLY:H	1:J:1491:THR:HB	1.75	0.51
1:J:2281:ARG:HG2	1:J:2289:ALA:HB3	1.91	0.51
1:A:1868:TYR:O	1:A:1871:LEU:HD22	2.11	0.51
1:B:142:ARG:HD2	1:B:971:LEU:O	2.11	0.51
1:B:2122:ALA:HB1	1:B:2175:GLU:HG2	1.92	0.51
1:C:2027:ARG:NH2	1:C:2318:GLU:OE1	2.43	0.51
1:D:1604:ARG:HH12	1:D:1634:GLU:HB3	1.75	0.51
1:D:2004:GLN:H	1:D:2300:THR:CG2	2.24	0.51
1:D:2102:LEU:HB3	1:D:2192:TRP:CZ3	2.45	0.51
1:E:951:ILE:HD11	1:E:967:LEU:HB2	1.92	0.51
1:F:1061:LEU:HD13	1:F:1778:LEU:HD11	1.92	0.51
1:F:1111:ILE:HG13	1:F:1160:PRO:HG3	1.92	0.51

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:2161:THR:O	1:F:2165:MET:HG2	2.10	0.51
1:H:1238:GLY:O	1:H:1305:ARG:HG3	2.10	0.51
1:I:1517:VAL:HG11	1:I:1520:GLN:HG3	1.93	0.51
1:I:2229:THR:O	1:I:2233:GLN:HG2	2.10	0.51
1:H:2512:ARG:HB3	1:I:2460:PHE:CE1	2.45	0.51
1:J:1124:ARG:HD2	1:J:1144:TRP:CZ2	2.46	0.51
1:I:90:ILE:HA	1:J:1452:ILE:HD12	1.92	0.51
1:A:1104:ASP:HA	1:A:1598:TRP:CZ2	2.40	0.51
1:A:158:GLU:HB3	1:A:982:LYS:HE2	1.92	0.51
1:A:2147:PHE:HE2	1:E:2147:PHE:CD2	2.28	0.51
1:A:2280:TYR:OH	1:A:2324:ARG:NH1	2.43	0.51
1:A:361:ASN:OD1	1:A:362:PHE:N	2.44	0.51
1:C:378:LEU:HB3	1:C:395:ILE:HD13	1.93	0.51
1:C:101:SER:HA	1:D:1429:THR:HG21	1.93	0.51
1:D:1972:HIS:HA	1:E:978:SER:OG	2.11	0.51
1:D:663:LEU:HD23	1:D:749:GLN:HE22	1.75	0.51
1:E:1097:TYR:HB2	1:E:1160:PRO:O	2.11	0.51
1:E:1237:ALA:O	1:E:1245:LEU:HG	2.10	0.51
1:E:1630:GLN:HG2	1:E:1819:ARG:CB	2.39	0.51
1:E:2291:PHE:CD2	1:E:2317:MET:HG3	2.45	0.51
1:A:564:ARG:HH22	1:E:844:ASN:HB2	1.76	0.51
1:F:1524:SER:OG	1:J:1685:ASN:ND2	2.43	0.51
1:G:1378:TYR:O	1:G:1421:ARG:NH1	2.43	0.51
1:G:2312:LEU:O	1:G:2316:GLN:HG3	2.10	0.51
1:G:687:ASP:HB3	1:G:690:HIS:HB2	1.92	0.51
1:H:1163:TYR:CD2	1:H:1245:LEU:HB3	2.46	0.51
1:H:1405:TYR:HB2	1:H:1425:HIS:HB3	1.93	0.51
1:H:778:LEU:HD22	1:H:786:PHE:HE1	1.75	0.51
1:I:2027:ARG:NH2	1:I:2318:GLU:OE1	2.43	0.51
1:I:450:THR:HG21	1:I:478:VAL:HG11	1.92	0.51
1:I:176:GLU:HG2	1:I:954:VAL:HG22	1.92	0.51
1:J:1238:GLY:O	1:J:1305:ARG:HG3	2.10	0.51
1:A:1138:ALA:HA	1:A:1141:TRP:HD1	1.75	0.51
1:A:1268:TYR:HE1	1:A:1278:MET:HG3	1.76	0.51
1:A:2187:ARG:HD3	1:A:2190:GLN:OE1	2.11	0.51
1:A:2364:GLY:HA2	1:A:2377:PHE:CE2	2.45	0.51
1:A:28:SER:OG	1:A:31:GLU:HG3	2.11	0.51
1:A:534:GLU:O	1:A:580:ASN:HB2	2.09	0.51
1:B:1736:ASN:O	1:B:1739:SER:HB2	2.11	0.51
1:C:170:LEU:HD13	1:C:182:TYR:HD2	1.75	0.51
1:D:1394:ASN:ND2	1:D:1480:ALA:HB1	2.25	0.51

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1639:LYS:HB2	1:E:1694:LEU:O	2.11	0.51
1:A:978:SER:OG	1:E:1972:HIS:HA	2.10	0.51
1:F:1257:ASP:OD1	1:F:1258:SER:N	2.39	0.51
1:F:1321:ASP:HA	1:J:1810:GLN:NE2	2.22	0.51
1:F:2125:THR:HA	1:F:2167:PHE:HE2	1.75	0.51
1:F:627:LEU:O	1:F:631:ILE:HG13	2.11	0.51
1:H:102:GLN:HE22	1:H:1901:THR:H	1.57	0.51
1:H:1711:PHE:HE2	1:H:1743:HIS:CE1	2.29	0.51
1:H:2435:TYR:HE2	1:H:2437:ASP:HB2	1.74	0.51
1:H:2393:PHE:HB3	1:H:2477:ILE:O	2.10	0.51
1:I:42:TRP:CH2	1:I:1321:ASP:HB2	2.46	0.51
1:J:1071:ALA:HA	1:J:1074:VAL:HG12	1.91	0.51
1:J:1295:ASP:N	1:J:1301:ARG:HG3	2.26	0.51
1:A:1800:TRP:CZ2	1:A:1802:PRO:HG3	2.46	0.51
1:B:1024:TYR:CD2	1:B:1034:VAL:HG21	2.45	0.51
1:B:336:THR:HG23	1:B:527:GLN:HG2	1.92	0.51
1:C:1642:TYR:OH	1:C:1756:GLU:HG3	2.10	0.51
1:C:195:SER:HB3	1:C:198:THR:HG21	1.93	0.51
1:C:612:VAL:N	1:C:613:GLY:HA2	2.25	0.51
1:C:896:ALA:O	1:C:900:LEU:HG	2.11	0.51
1:E:1390:SER:HB3	1:E:1484:SER:HB2	1.91	0.51
1:F:264:TYR:HA	1:F:438:LEU:HD21	1.93	0.51
1:F:493:GLU:OE1	1:F:517:ARG:NH1	2.42	0.51
1:G:1179:LYS:HE3	1:G:1180:GLN:HG2	1.92	0.51
1:H:2422:LEU:H	1:H:2503:THR:HG21	1.75	0.51
1:I:2494:LYS:HD2	1:I:2494:LYS:H	1.76	0.51
1:J:1355:PRO:HD2	1:J:1532:PHE:HB2	1.93	0.51
1:J:1660:TRP:HH2	1:J:1927:ARG:O	1.94	0.51
1:J:1865:ASP:OD1	1:J:1966:ARG:NH1	2.44	0.51
1:A:271:ILE:CG2	1:A:952:ARG:HH22	2.23	0.51
1:A:789:ALA:HB3	1:A:792:ALA:HB3	1.92	0.51
1:B:1204:ARG:HH21	1:C:2126:THR:HG23	1.76	0.51
1:B:143:PRO:HA	1:B:146:LYS:HE2	1.93	0.51
1:B:1704:HIS:CD2	1:B:1726:VAL:HG23	2.45	0.51
1:B:2420:PRO:HD2	1:B:2506:ASP:O	2.10	0.51
1:B:832:ALA:HB2	1:B:868:PHE:CZ	2.45	0.51
1:C:247:LEU:O	1:C:251:LEU:HG	2.11	0.51
1:D:118:TYR:HB2	1:D:1031:TRP:CE3	2.46	0.51
1:D:1411:SER:HB3	1:D:1419:GLN:HA	1.92	0.51
1:D:1995:LEU:HD13	1:E:2231:GLN:NE2	2.25	0.51
1:D:2229:THR:O	1:D:2233:GLN:HG2	2.11	0.51

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:255:ILE:HD12	1:D:439:LYS:HG3	1.93	0.51
1:E:1110:PHE:HE1	1:E:1126:VAL:HG12	1.76	0.51
1:E:1130:LYS:HB2	1:E:1140:ALA:HB2	1.92	0.51
1:E:832:ALA:HB2	1:E:868:PHE:CE2	2.45	0.51
1:F:702:LEU:O	1:F:767:HIS:NE2	2.41	0.51
1:F:2088:SER:OG	1:G:2205:GLN:OE1	2.28	0.51
1:H:1497:LYS:O	1:H:1499:GLN:HG3	2.11	0.51
1:J:1616:ARG:HH22	1:J:1628:GLU:CD	2.14	0.51
1:J:251:LEU:HB3	1:J:470:ILE:HG21	1.93	0.51
1:A:1595:TYR:HB3	1:A:1637:LEU:HD22	1.93	0.51
1:A:1783:LEU:HD13	1:A:1791:GLU:HB3	1.93	0.51
1:A:2331:VAL:HG21	1:A:2402:TYR:HE2	1.76	0.51
1:A:2422:LEU:H	1:A:2503:THR:HG21	1.75	0.51
1:B:1097:TYR:HB2	1:B:1160:PRO:O	2.11	0.51
1:B:1257:ASP:OD1	1:B:1258:SER:N	2.39	0.51
1:B:2364:GLY:HA2	1:B:2377:PHE:CE2	2.44	0.51
1:B:733:TRP:HE1	1:B:748:THR:HB	1.75	0.51
1:E:2046:ARG:HB3	1:E:2251:TYR:HE2	1.76	0.51
1:F:1333:TYR:HD2	1:F:1358:ARG:HD3	1.76	0.51
1:F:81:ALA:N	1:F:1816:TRP:HH2	2.05	0.51
1:F:2486:PHE:HB3	1:F:2497:GLN:NE2	2.25	0.51
1:F:337:ASN:HB3	1:F:339:TYR:O	2.10	0.51
1:F:810:TRP:HZ2	1:F:835:LEU:HD11	1.75	0.51
1:G:1143:GLU:HG2	1:G:1144:TRP:O	2.11	0.51
1:G:467:GLN:N	1:G:467:GLN:OE1	2.44	0.51
1:G:745:ALA:HB3	1:G:749:GLN:OE1	2.10	0.51
1:H:1124:ARG:HD2	1:H:1144:TRP:CZ2	2.46	0.51
1:H:1955:VAL:O	1:H:1958:ASN:HB3	2.11	0.51
1:H:347:PRO:HA	1:H:353:TYR:HD1	1.76	0.51
1:I:453:SER:O	1:I:457:LEU:HD12	2.11	0.51
1:J:1380:LYS:O	1:J:1383:ASP:HB2	2.11	0.51
1:J:111:SER:HB2	1:J:1951:GLN:HB2	1.92	0.51
1:A:1248:MET:HE1	1:A:1286:TYR:HB2	1.92	0.51
1:A:1421:ARG:HD2	1:A:1456:TYR:CD2	2.46	0.51
1:A:1459:ASP:HB3	1:A:1462:ASN:HB3	1.93	0.51
1:B:271:ILE:HG23	1:B:952:ARG:HH22	1.76	0.51
1:C:1223:GLU:HB2	1:C:1265:GLN:HE22	1.74	0.51
1:C:662:THR:N	1:C:753:VAL:HG11	2.17	0.51
1:D:2098:SER:HB3	1:E:2194:ILE:HD12	1.92	0.51
1:E:1122:TYR:CE2	1:E:1146:LYS:HG2	2.46	0.51
1:E:1168:TYR:CD2	1:E:1200:LEU:HD21	2.44	0.51

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:901:ASP:HB3	1:E:904:GLN:HB3	1.93	0.51
1:F:2359:LYS:O	1:F:2363:GLN:HG2	2.11	0.51
1:F:832:ALA:C	1:F:834:GLN:H	2.14	0.51
1:G:1294:PHE:HA	1:G:1301:ARG:HB2	1.93	0.51
1:G:2433:LEU:HD22	1:G:2482:LEU:HD21	1.93	0.51
1:G:319:ASN:HB3	1:G:322:ASP:HB2	1.92	0.51
1:H:2229:THR:O	1:H:2233:GLN:HG2	2.11	0.51
1:H:28:SER:OG	1:H:31:GLU:HG3	2.11	0.51
1:I:687:ASP:O	1:I:691:VAL:HG23	2.11	0.51
1:I:852:GLN:HB3	1:I:880:TRP:CZ3	2.46	0.51
1:J:1294:PHE:CD1	1:J:1301:ARG:HB2	2.46	0.51
1:J:1696:ASP:OD2	1:J:1696:ASP:N	2.42	0.51
1:A:1168:TYR:CD2	1:A:1202:HIS:HB3	2.46	0.50
1:A:314:ILE:HD13	1:A:329:ARG:HG3	1.92	0.50
1:A:340:GLN:HA	1:A:360:LYS:HB3	1.93	0.50
1:B:2348:ASN:O	1:B:2350:PRO:HD3	2.11	0.50
1:B:417:GLY:N	1:B:418:SER:HA	2.25	0.50
1:C:2393:PHE:HE1	1:C:2482:LEU:HB2	1.76	0.50
1:D:1093:VAL:N	1:D:1594:GLN:HE22	2.03	0.50
1:E:962:LYS:HG3	1:E:1401:LYS:HG2	1.93	0.50
1:F:1168:TYR:CD2	1:F:1202:HIS:HB3	2.46	0.50
1:F:124:ARG:HB2	1:F:1911:ALA:HB1	1.93	0.50
1:F:1267:LEU:CD2	1:F:1275:SER:HB2	2.39	0.50
1:F:1972:HIS:HB2	1:F:1974:LEU:HD13	1.93	0.50
1:F:534:GLU:O	1:F:580:ASN:HB2	2.10	0.50
1:G:1268:TYR:CD1	1:G:1278:MET:HG3	2.47	0.50
1:G:1381:LEU:HD13	1:G:1382:GLY:N	2.26	0.50
1:G:905:SER:HB2	1:G:910:PRO:HD3	1.91	0.50
1:H:1784:LEU:HD21	1:H:1859:LEU:HA	1.93	0.50
1:I:1386:ILE:HB	1:I:1408:TYR:HB3	1.93	0.50
1:J:1805:TYR:OH	1:J:1817:ASN:HB2	2.11	0.50
1:A:1793:ASN:O	1:A:1797:LYS:HB2	2.12	0.50
1:A:2172:MET:HB2	1:E:2121:ALA:HB2	1.92	0.50
1:A:2177:ASP:OD1	1:E:2118:ARG:NH2	2.44	0.50
1:B:1293:GLN:O	1:B:1301:ARG:HB3	2.12	0.50
1:B:1955:VAL:O	1:B:1958:ASN:HB3	2.11	0.50
1:B:2046:ARG:HB3	1:B:2251:TYR:CE2	2.46	0.50
1:B:2398:ILE:HB	1:B:2477:ILE:HG21	1.92	0.50
1:C:1328:TYR:HB2	1:C:1368:LYS:HG2	1.94	0.50
1:C:1390:SER:HB3	1:C:1484:SER:HB2	1.93	0.50
1:C:2312:LEU:O	1:C:2316:GLN:HG3	2.11	0.50

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1110:PHE:HE1	1:D:1126:VAL:HG12	1.76	0.50
1:E:1220:LYS:HG2	1:E:1265:GLN:HB3	1.94	0.50
1:E:733:TRP:CD2	1:E:752:ILE:HD12	2.45	0.50
1:F:1321:ASP:OD2	1:F:1322:TYR:N	2.44	0.50
1:F:604:GLU:HB3	1:F:648:VAL:HG21	1.93	0.50
1:F:965:ASP:O	1:F:968:TYR:HB3	2.12	0.50
1:G:1057:MET:HB2	1:G:1770:GLU:OE2	2.10	0.50
1:G:1172:LEU:HD11	1:G:1221:ILE:HD11	1.93	0.50
1:G:1475:ASP:HB2	1:G:1479:THR:HB	1.92	0.50
1:G:2004:GLN:H	1:G:2300:THR:HG23	1.76	0.50
1:H:1404:PHE:HB2	1:H:1473:MET:HE3	1.92	0.50
1:H:231:MET:HG3	1:H:898:VAL:HG23	1.92	0.50
1:H:598:HIS:CB	1:H:600:LEU:HD13	2.41	0.50
1:I:1113:LEU:HD13	1:I:1121:TYR:CE2	2.46	0.50
1:I:1790:ASP:OD1	1:I:1863:ARG:NH2	2.44	0.50
1:I:1800:TRP:HB2	1:I:1816:TRP:CD1	2.46	0.50
1:I:464:VAL:CG2	1:I:477:LYS:HD2	2.41	0.50
1:J:1284:ASN:HA	1:J:1287:ARG:HD2	1.93	0.50
1:J:458:GLU:OE1	1:J:506:ARG:NH2	2.39	0.50
1:J:850:SER:O	1:J:854:GLN:HG3	2.11	0.50
1:A:1719:THR:HG23	1:A:1721:TRP:HB2	1.92	0.50
1:B:125:GLU:HB3	1:B:1018:PHE:CE1	2.46	0.50
1:C:1711:PHE:HE2	1:C:1743:HIS:ND1	2.09	0.50
1:D:1294:PHE:HA	1:D:1301:ARG:CB	2.40	0.50
1:D:1514:ASP:OD2	1:D:1515:LYS:N	2.44	0.50
1:E:1257:ASP:OD1	1:E:1258:SER:N	2.36	0.50
1:E:1321:ASP:OD2	1:E:1322:TYR:N	2.44	0.50
1:D:1178:THR:HB	1:E:2146:GLY:N	2.26	0.50
1:E:467:GLN:N	1:E:467:GLN:OE1	2.44	0.50
1:E:595:ALA:HB2	1:E:605:LEU:HG	1.94	0.50
1:E:930:GLN:HA	1:E:933:THR:HG22	1.93	0.50
1:H:1111:ILE:HD11	1:H:1160:PRO:HB3	1.94	0.50
1:H:1157:THR:HG21	1:H:1172:LEU:HB3	1.94	0.50
1:I:181:ASN:OD1	1:I:182:TYR:N	2.44	0.50
1:J:2247:ASN:HB2	1:J:2250:LEU:H	1.76	0.50
1:A:1159:ARG:NH1	1:A:1294:PHE:CE1	2.80	0.50
1:A:153:GLN:O	1:A:157:ILE:HG12	2.11	0.50
1:A:612:VAL:N	1:A:613:GLY:HA2	2.25	0.50
1:B:1213:ILE:HD13	1:B:1273:MET:HG3	1.93	0.50
1:B:896:ALA:O	1:B:900:LEU:HG	2.12	0.50
1:C:1024:TYR:OH	1:C:1835:VAL:HG21	2.11	0.50

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1868:TYR:OH	1:C:1974:LEU:O	2.27	0.50
1:C:353:TYR:HE2	1:C:402:ILE:HD11	1.77	0.50
1:D:1676:ILE:HG12	1:D:1690:LEU:HD13	1.92	0.50
1:D:733:TRP:NE1	1:D:748:THR:HB	2.26	0.50
1:E:1227:GLU:CG	1:E:1230:ARG:HG2	2.41	0.50
1:E:1930:ILE:HB	1:E:1931:PRO:HD3	1.92	0.50
1:E:2039:THR:O	1:E:2043:ILE:HG12	2.12	0.50
1:F:15:GLN:HB3	1:F:16:CYS:HB2	1.92	0.50
1:F:2486:PHE:HB3	1:F:2497:GLN:HE22	1.77	0.50
1:G:1491:THR:HG21	1:G:1525:PHE:CZ	2.46	0.50
1:G:170:LEU:HB3	1:G:182:TYR:CD2	2.47	0.50
1:H:1007:ASN:OD1	1:H:1008:ALA:N	2.44	0.50
1:H:2337:LEU:HD22	1:H:2391:VAL:HG21	1.94	0.50
1:H:2329:LEU:HB2	1:H:2515:ILE:HB	1.93	0.50
1:H:557:ILE:HG22	1:H:558:ASP:O	2.10	0.50
1:A:1868:TYR:OH	1:A:1974:LEU:O	2.30	0.50
1:A:2364:GLY:HA2	1:A:2377:PHE:HE2	1.76	0.50
1:A:308:TYR:CD1	1:A:313:LEU:HB2	2.46	0.50
1:B:1636:GLN:O	1:B:1637:LEU:HG	2.11	0.50
1:B:2068:LEU:CD1	1:B:2227:LEU:HB3	2.42	0.50
1:C:1178:THR:HB	1:D:2146:GLY:N	2.27	0.50
1:C:1411:SER:HA	1:C:1415:SER:CB	2.40	0.50
1:D:1069:LEU:O	1:D:1788:ASN:ND2	2.45	0.50
1:D:1248:MET:HE1	1:D:1286:TYR:HB2	1.93	0.50
1:D:161:THR:C	1:D:163:SER:H	2.15	0.50
1:D:170:LEU:HD13	1:D:182:TYR:HD2	1.76	0.50
1:D:65:ARG:NH1	1:D:88:GLU:OE2	2.43	0.50
1:E:2106:ASN:ND2	1:E:2189:ARG:HB2	2.27	0.50
1:E:772:ASN:HB3	1:E:775:ALA:HB3	1.92	0.50
1:F:1357:LEU:HD12	1:F:1555:PHE:HB3	1.93	0.50
1:G:1248:MET:HE3	1:G:1286:TYR:HD2	1.75	0.50
1:G:1807:VAL:HB	1:G:1812:GLN:OE1	2.11	0.50
1:I:280:GLU:HG2	1:I:1399:SER:HB2	1.94	0.50
1:I:1139:ASN:HD21	1:I:1829:SER:N	2.09	0.50
1:I:2142:PRO:HB3	1:I:2150:GLY:HA3	1.93	0.50
1:I:2187:ARG:HD3	1:I:2190:GLN:OE1	2.11	0.50
1:J:1497:LYS:HB3	1:J:1558:PHE:HB2	1.93	0.50
1:A:998:ASN:OD1	1:A:1026:LYS:NZ	2.45	0.50
1:A:714:TRP:NE1	1:A:794:PRO:HG2	2.26	0.50
1:A:714:TRP:CE3	1:A:762:LEU:HD22	2.46	0.50
1:A:2331:VAL:HG23	1:B:2451:SER:OG	2.10	0.50

*Continued on next page...*



*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:288:LEU:HD21	1:B:448:ARG:HD2	1.94	0.50
1:C:1381:LEU:HD13	1:C:1382:GLY:N	2.25	0.50
1:C:142:ARG:NH1	1:C:144:ASP:OD2	2.45	0.50
1:C:143:PRO:HA	1:C:146:LYS:HE2	1.93	0.50
1:C:1858:ASP:OD1	1:C:1959:TYR:OH	2.30	0.50
1:C:195:SER:O	1:C:198:THR:HG22	2.11	0.50
1:D:2099:TYR:CD2	1:D:2195:GLN:HB3	2.45	0.50
1:E:1418:ASN:ND2	1:E:1459:ASP:O	2.45	0.50
1:E:1868:TYR:HE1	1:E:1970:LEU:HG	1.77	0.50
1:E:130:HIS:CE1	1:E:996:TYR:HH	2.27	0.50
1:F:1295:ASP:H	1:F:1301:ARG:HG3	1.77	0.50
1:F:1475:ASP:HB2	1:F:1479:THR:HB	1.93	0.50
1:F:1919:HIS:NE2	1:F:1923:ILE:HD11	2.27	0.50
1:G:250:ILE:HG23	1:G:267:ASN:HD21	1.76	0.50
1:G:663:LEU:HD13	1:G:668:LYS:HE3	1.93	0.50
1:H:1198:LEU:O	1:H:1215:PHE:N	2.37	0.50
1:H:1268:TYR:HE1	1:H:1278:MET:HG3	1.76	0.50
1:H:1291:TYR:C	1:H:1293:GLN:H	2.14	0.50
1:H:1797:LYS:O	1:H:1805:TYR:OH	2.20	0.50
1:G:2059:GLN:HB2	1:H:2233:GLN:CD	2.32	0.50
1:I:102:GLN:O	1:I:1949:LEU:HD23	2.11	0.50
1:I:406:PHE:CE1	1:I:426:PHE:HB2	2.46	0.50
1:J:1599:GLN:HB3	1:J:1674:HIS:CE1	2.47	0.50
1:J:1634:GLU:HG3	1:J:1635:PRO:HD2	1.93	0.50
1:J:1711:PHE:HE2	1:J:1743:HIS:NE2	2.09	0.50
1:I:1178:THR:O	1:J:2146:GLY:HA3	2.11	0.50
1:J:641:LEU:HD21	1:J:651:LEU:HD22	1.94	0.50
1:A:192:PHE:CZ	1:A:194:PRO:HG2	2.47	0.50
1:B:1261:ASN:H	1:B:1287:ARG:NH1	2.08	0.50
1:B:1475:ASP:HB2	1:B:1479:THR:HB	1.93	0.50
1:C:1639:LYS:HB2	1:C:1694:LEU:O	2.12	0.50
1:C:2308:GLU:N	1:C:2308:GLU:OE1	2.37	0.50
1:C:714:TRP:CE3	1:C:762:LEU:HD22	2.47	0.50
1:D:1060:LEU:HD11	1:D:1775:THR:HG23	1.94	0.50
1:D:1257:ASP:CG	1:D:1258:SER:H	2.15	0.50
1:E:2025:ASN:OD1	1:E:2272:ARG:HD2	2.12	0.50
1:E:2009:LEU:HD13	1:E:2294:PRO:HB3	1.93	0.50
1:E:733:TRP:HE1	1:E:748:THR:HB	1.77	0.50
1:F:42:TRP:O	1:F:42:TRP:HD1	1.95	0.50
1:G:1126:VAL:HB	1:G:1141:TRP:CZ3	2.47	0.50
1:G:23:ASP:O	1:G:26:HIS:ND1	2.44	0.50

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:2312:LEU:O	1:H:2316:GLN:HG3	2.11	0.50
1:I:1386:ILE:HG13	1:I:1410:TYR:CE1	2.43	0.50
1:I:1544:PHE:CE2	1:I:1576:LEU:HB2	2.47	0.50
1:I:442:LYS:HG3	1:I:470:ILE:HD12	1.93	0.50
1:I:866:ASN:ND2	1:I:873:SER:OG	2.45	0.50
1:J:2377:PHE:HE1	1:J:2387:LEU:HD12	1.77	0.50
1:B:2281:ARG:HG2	1:B:2289:ALA:HB3	1.94	0.50
1:B:725:MET:HG2	1:B:755:TYR:HB2	1.94	0.50
1:C:1441:ALA:HB1	1:C:1443:ARG:HG2	1.94	0.50
1:C:1783:LEU:HD13	1:C:1791:GLU:HB3	1.92	0.50
1:C:847:LEU:O	1:C:851:ILE:HG13	2.12	0.50
1:E:200:TYR:HE1	1:E:941:SER:HG	1.58	0.50
1:F:1264:MET:HE3	1:F:1287:ARG:HG3	1.93	0.50
1:F:1805:TYR:HD2	1:F:1814:TYR:O	1.94	0.50
1:G:2273:CYS:HB3	1:G:2292:ILE:HD13	1.94	0.50
1:G:709:HIS:O	1:G:713:LEU:HG	2.12	0.50
1:H:1650:TYR:HE1	1:H:1659:ARG:HH21	1.59	0.50
1:I:1295:ASP:N	1:I:1301:ARG:HG3	2.27	0.50
1:I:358:LYS:HB2	1:I:390:GLU:HG2	1.94	0.50
1:J:1675:ILE:HD11	1:J:1678:SER:HB3	1.94	0.50
1:J:1770:GLU:HA	1:J:1774:TYR:HB2	1.93	0.50
1:F:2198:ASN:ND2	1:J:2095:ARG:HD3	2.25	0.50
1:A:1121:TYR:O	1:A:1147:ILE:HG12	2.12	0.50
1:A:1147:ILE:HD11	1:A:1151:ILE:HD12	1.94	0.50
1:A:42:TRP:CH2	1:A:1321:ASP:HB2	2.47	0.50
1:A:2497:GLN:O	1:A:2501:LEU:HG	2.12	0.50
1:C:41:SER:HB3	1:C:44:GLU:OE1	2.11	0.50
1:D:1355:PRO:HB3	1:D:1555:PHE:CZ	2.47	0.50
1:D:714:TRP:CD1	1:D:794:PRO:HG2	2.46	0.50
1:E:36:VAL:HG12	1:E:40:LEU:HB2	1.94	0.50
1:E:481:THR:O	1:E:485:MET:HG2	2.12	0.50
1:H:1386:ILE:HB	1:H:1408:TYR:HB3	1.94	0.50
1:H:1505:GLY:HA2	1:H:1542:LEU:HA	1.94	0.50
1:I:1268:TYR:CD1	1:I:1278:MET:HG3	2.47	0.50
1:I:1435:GLU:O	1:I:1473:MET:HA	2.12	0.50
1:I:158:GLU:HB3	1:I:982:LYS:HE2	1.94	0.50
1:I:627:LEU:O	1:I:631:ILE:HG13	2.12	0.50
1:I:825:PHE:HD1	1:I:830:LEU:HD13	1.77	0.50
1:J:873:SER:O	1:J:877:ILE:HG13	2.12	0.50
1:A:1805:TYR:OH	1:A:1817:ASN:HB2	2.11	0.49
1:A:2398:ILE:HB	1:A:2477:ILE:HG21	1.94	0.49

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2125:THR:HA	1:B:2167:PHE:HE2	1.76	0.49
1:B:2273:CYS:HB3	1:B:2292:ILE:CD1	2.42	0.49
1:B:211:ILE:HD11	1:B:897:LEU:HD11	1.93	0.49
1:C:1057:MET:HE2	1:C:1774:TYR:HB3	1.93	0.49
1:C:1383:ASP:O	1:C:1491:THR:OG1	2.28	0.49
1:C:1138:ALA:HB2	1:C:1761:SER:O	2.11	0.49
1:D:1666:LYS:HD3	1:D:1706:LYS:HD3	1.93	0.49
1:D:1633:GLN:HB3	1:D:1755:SER:HB2	1.93	0.49
1:E:1639:LYS:HG2	1:E:1694:LEU:HB2	1.94	0.49
1:E:1699:LEU:HD23	1:E:1700:ASN:OD1	2.12	0.49
1:E:195:SER:HB3	1:E:198:THR:CG2	2.42	0.49
1:A:2151:GLY:HA2	1:E:2143:ASN:HB3	1.94	0.49
1:G:1400:ASN:HB3	1:G:1402:LEU:HB2	1.93	0.49
1:G:1994:ALA:HB2	1:H:2065:LEU:HD11	1.94	0.49
1:G:36:VAL:HG22	1:G:40:LEU:HB2	1.94	0.49
1:G:162:LEU:HD23	1:G:979:ALA:HA	1.94	0.49
1:H:1890:LEU:HB3	1:H:1960:TRP:CH2	2.47	0.49
1:H:2326:LYS:HE2	1:H:2516:LYS:HB2	1.94	0.49
1:H:564:ARG:O	1:H:568:ILE:HG13	2.12	0.49
1:J:1382:GLY:N	1:J:1491:THR:HB	2.27	0.49
1:A:1728:ASP:O	1:A:1731:GLY:HA2	2.11	0.49
1:A:2312:LEU:O	1:A:2316:GLN:HG3	2.12	0.49
1:A:59:ASN:OD1	1:A:1927:ARG:NH2	2.46	0.49
1:B:1865:ASP:OD1	1:B:1883:TYR:OH	2.28	0.49
1:B:2497:GLN:HG2	1:B:2500:MET:SD	2.52	0.49
1:C:1024:TYR:CG	1:C:1034:VAL:HG21	2.47	0.49
1:C:1294:PHE:CD1	1:C:1301:ARG:HB2	2.46	0.49
1:C:1386:ILE:HG13	1:C:1410:TYR:HE1	1.77	0.49
1:C:207:VAL:HG13	1:C:922:LEU:HD12	1.94	0.49
1:C:601:THR:HG23	1:C:604:GLU:H	1.77	0.49
1:D:1386:ILE:HD12	1:D:1408:TYR:CD1	2.42	0.49
1:D:1777:MET:HE1	1:D:1852:THR:HG23	1.94	0.49
1:D:1611:ARG:HD2	1:E:1271:ALA:HB1	1.92	0.49
1:E:940:GLU:HG3	1:E:979:ALA:HB2	1.94	0.49
1:F:2033:LEU:HD12	1:F:2269:ALA:HB3	1.93	0.49
1:F:358:LYS:HB2	1:F:390:GLU:HG2	1.94	0.49
1:G:99:ARG:HH11	1:G:1947:LEU:HB3	1.78	0.49
1:G:1869:ARG:NH2	1:G:1976:ILE:HG21	2.24	0.49
1:G:464:VAL:CG2	1:G:477:LYS:HD2	2.43	0.49
1:H:2046:ARG:HB3	1:H:2251:TYR:HE2	1.76	0.49
1:F:2157:ILE:HD12	1:I:1152:ASN:HB2	1.94	0.49

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:2106:ASN:OD1	1:I:2107:ILE:HG13	2.12	0.49
1:I:2337:LEU:HD22	1:I:2391:VAL:HG21	1.94	0.49
1:J:1110:PHE:HE1	1:J:1126:VAL:HG12	1.76	0.49
1:J:1114:SER:OG	1:J:1120:GLU:HB2	2.12	0.49
1:J:2413:LYS:O	1:J:2473:GLU:HG2	2.11	0.49
1:A:1355:PRO:HG2	1:A:1500:ILE:HD13	1.94	0.49
1:A:2008:LYS:HE3	1:A:2297:TRP:HB3	1.94	0.49
1:A:714:TRP:CD2	1:A:762:LEU:HD22	2.48	0.49
1:A:969:GLN:OE1	1:A:999:ARG:NE	2.45	0.49
1:B:2305:LEU:HD11	1:C:2258:LEU:HB2	1.94	0.49
1:C:1172:LEU:HD21	1:C:1196:TYR:HB3	1.94	0.49
1:C:1607:THR:HG22	1:C:1764:ASN:HD22	1.77	0.49
1:C:1615:ALA:HA	1:D:1165:SER:HB2	1.93	0.49
1:C:1773:TYR:O	1:C:1776:PRO:HD2	2.12	0.49
1:C:2305:LEU:HD11	1:D:2258:LEU:HB2	1.93	0.49
1:D:1391:LEU:HD11	1:D:1406:PRO:HD2	1.93	0.49
1:D:278:MET:CE	1:D:1478:GLY:H	2.25	0.49
1:D:1642:TYR:CE2	1:D:1691:PHE:HB2	2.45	0.49
1:D:2412:ILE:HD12	1:D:2475:ILE:HB	1.93	0.49
1:E:1411:SER:N	1:E:1419:GLN:O	2.45	0.49
1:E:1737:PRO:HA	1:E:1738:LYS:C	2.32	0.49
1:A:2187:ARG:NH2	1:E:2111:GLU:OE1	2.45	0.49
1:E:612:VAL:N	1:E:613:GLY:HA2	2.27	0.49
1:F:1139:ASN:HD21	1:F:1829:SER:H	1.60	0.49
1:F:1225:LYS:HE3	1:F:1252:GLN:HG2	1.94	0.49
1:F:2144:ILE:HD12	1:G:2144:ILE:HG21	1.93	0.49
1:F:2033:LEU:HD11	1:F:2266:TYR:HA	1.94	0.49
1:F:622:ILE:HG21	1:F:627:LEU:HD23	1.94	0.49
1:F:162:LEU:HD21	1:F:940:GLU:HA	1.93	0.49
1:G:1227:GLU:HB3	1:G:1230:ARG:HG2	1.95	0.49
1:G:1585:THR:HB	1:G:1597:GLN:NE2	2.28	0.49
1:G:124:ARG:HD3	1:G:1911:ALA:O	2.12	0.49
1:G:487:ARG:NH1	1:G:639:SER:OG	2.45	0.49
1:H:1608:LEU:HD22	1:H:1611:ARG:HG3	1.94	0.49
1:H:940:GLU:HG3	1:H:979:ALA:HB2	1.93	0.49
1:I:1655:HIS:NE2	1:I:1929:ASN:O	2.44	0.49
1:J:2106:ASN:ND2	1:J:2189:ARG:HD2	2.28	0.49
1:J:161:THR:HG22	1:J:981:ILE:O	2.11	0.49
1:A:104:VAL:HG11	1:A:110:SER:OG	2.12	0.49
1:B:1333:TYR:HD2	1:B:1358:ARG:HD3	1.76	0.49
1:C:1151:ILE:HG23	1:C:1171:TRP:CE2	2.47	0.49

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:814:LEU:HD22	1:C:838:ALA:HB1	1.93	0.49
1:C:833:GLU:HG2	1:C:843:ALA:HB1	1.93	0.49
1:D:1368:LYS:O	1:D:1372:CYS:HB2	2.12	0.49
1:D:1378:TYR:HB3	1:D:1421:ARG:NH1	2.27	0.49
1:D:854:GLN:HG2	1:D:862:VAL:HG12	1.93	0.49
1:D:2305:LEU:HD11	1:E:2258:LEU:HB2	1.94	0.49
1:F:1159:ARG:NH2	1:F:1301:ARG:O	2.33	0.49
1:F:1888:HIS:HE1	1:G:1002:GLU:OE1	1.95	0.49
1:F:2497:GLN:O	1:F:2501:LEU:HG	2.12	0.49
1:G:2161:THR:O	1:G:2165:MET:HG2	2.13	0.49
1:H:1124:ARG:HD2	1:H:1144:TRP:CE2	2.47	0.49
1:H:1896:LEU:HD21	1:H:1952:ILE:CD1	2.42	0.49
1:H:2237:GLN:O	1:H:2240:PHE:HB3	2.12	0.49
1:H:2433:LEU:HB2	1:H:2448:LEU:HB3	1.93	0.49
1:H:844:ASN:HB2	1:I:564:ARG:HH12	1.77	0.49
1:H:1116:THR:HG23	1:I:1211:THR:HG21	1.94	0.49
1:I:1711:PHE:HD1	1:I:1713:LYS:HG2	1.77	0.49
1:I:2190:GLN:O	1:I:2194:ILE:HG12	2.11	0.49
1:J:1353:ILE:HD12	1:J:1537:ILE:HD12	1.93	0.49
1:J:2046:ARG:NH2	1:J:2251:TYR:OH	2.44	0.49
1:J:2046:ARG:HB3	1:J:2251:TYR:HE2	1.77	0.49
1:J:587:ASN:ND2	1:J:620:SER:O	2.45	0.49
1:A:1225:LYS:O	1:A:1230:ARG:NH1	2.28	0.49
1:A:1233:GLY:HA3	1:A:1250:TYR:HB2	1.94	0.49
1:A:1505:GLY:HA2	1:A:1542:LEU:HA	1.94	0.49
1:A:2102:LEU:HB3	1:A:2192:TRP:CE3	2.47	0.49
1:A:481:THR:O	1:A:485:MET:HG2	2.13	0.49
1:A:798:ALA:O	1:A:802:ILE:HG23	2.12	0.49
1:B:1163:TYR:CE2	1:B:1245:LEU:HB3	2.48	0.49
1:C:1737:PRO:HA	1:C:1738:LYS:C	2.32	0.49
1:D:1104:ASP:HA	1:D:1598:TRP:HZ2	1.77	0.49
1:D:1264:MET:CE	1:D:1287:ARG:HG3	2.43	0.49
1:D:1503:LYS:HB2	1:D:1552:ASP:HB2	1.95	0.49
1:D:453:SER:HB3	1:D:456:ILE:HG12	1.93	0.49
1:E:161:THR:C	1:E:163:SER:H	2.15	0.49
1:E:2068:LEU:CD1	1:E:2227:LEU:HB3	2.43	0.49
1:F:1381:LEU:HD13	1:F:1382:GLY:N	2.27	0.49
1:F:271:ILE:HG23	1:F:952:ARG:HH22	1.78	0.49
1:I:1260:LYS:HA	1:I:1287:ARG:HH22	1.76	0.49
1:I:1615:ALA:O	1:I:1618:THR:HG22	2.13	0.49
1:I:477:LYS:HD3	1:I:499:CYS:SG	2.52	0.49

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:1502:VAL:HG11	1:J:1537:ILE:HG21	1.93	0.49
1:J:557:ILE:HD11	1:J:592:LYS:HE3	1.94	0.49
1:J:714:TRP:CE3	1:J:762:LEU:HD22	2.47	0.49
1:J:778:LEU:HA	1:J:781:THR:HG22	1.95	0.49
1:A:1604:ARG:NH1	1:A:1634:GLU:HB3	2.27	0.49
1:A:298:GLY:HA2	1:A:309:SER:OG	2.12	0.49
1:B:1126:VAL:HB	1:B:1141:TRP:CE3	2.48	0.49
1:B:1865:ASP:OD1	1:B:1966:ARG:NH1	2.46	0.49
1:C:2179:ILE:O	1:C:2182:SER:HB3	2.13	0.49
1:C:347:PRO:HA	1:C:353:TYR:HD1	1.78	0.49
1:C:260:ALA:HB1	1:C:434:TYR:HB2	1.94	0.49
1:C:868:PHE:HD1	1:C:874:ILE:HG12	1.78	0.49
1:D:1227:GLU:HB3	1:D:1230:ARG:HG2	1.94	0.49
1:D:361:ASN:OD1	1:D:362:PHE:N	2.45	0.49
1:F:1226:LEU:HD12	1:F:1228:LYS:HG3	1.95	0.49
1:F:142:ARG:HD2	1:F:971:LEU:O	2.13	0.49
1:G:1992:PRO:HB2	1:H:2068:LEU:HD23	1.94	0.49
1:H:847:LEU:O	1:H:851:ILE:HG13	2.13	0.49
1:I:2359:LYS:O	1:I:2363:GLN:HG2	2.12	0.49
1:I:733:TRP:HE1	1:I:748:THR:HB	1.78	0.49
1:I:850:SER:O	1:I:854:GLN:HG3	2.13	0.49
1:A:1794:ARG:NH2	1:A:1798:TYR:OH	2.44	0.49
1:A:2258:LEU:HB2	1:E:2305:LEU:CD1	2.41	0.49
1:B:1090:ASN:OD1	1:B:1611:ARG:NH1	2.45	0.49
1:B:689:LEU:HD13	1:B:713:LEU:HD23	1.94	0.49
1:B:1810:GLN:HE22	1:C:1321:ASP:HA	1.77	0.49
1:C:1710:THR:HG23	1:C:1715:PRO:HA	1.95	0.49
1:C:2326:LYS:HE2	1:C:2516:LYS:HB2	1.94	0.49
1:D:1411:SER:HA	1:D:1415:SER:HB2	1.94	0.49
1:D:161:THR:HG22	1:D:162:LEU:N	2.27	0.49
1:C:1177:ILE:HG12	1:D:2145:PHE:HD2	1.77	0.49
1:D:2422:LEU:H	1:D:2503:THR:HG21	1.77	0.49
1:D:1811:ILE:HD11	1:E:1010:SER:HB3	1.95	0.49
1:E:195:SER:O	1:E:198:THR:HG22	2.12	0.49
1:E:455:THR:HG21	1:E:508:TYR:CD2	2.47	0.49
1:F:124:ARG:HD3	1:F:1911:ALA:O	2.13	0.49
1:F:697:ALA:HB2	1:F:708:ALA:HB2	1.95	0.49
1:G:1074:VAL:HG21	1:G:1779:VAL:HG13	1.95	0.49
1:G:1383:ASP:O	1:G:1491:THR:OG1	2.19	0.49
1:H:1248:MET:CE	1:H:1286:TYR:HB2	2.43	0.49
1:H:1074:VAL:HG21	1:H:1779:VAL:HG13	1.95	0.49

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:69:ARG:HD3	1:H:83:LEU:O	2.11	0.49
1:I:132:SER:HA	1:I:137:TYR:CG	2.47	0.49
1:I:890:ALA:HB2	1:J:559:ASP:HB2	1.94	0.49
1:J:1607:THR:HG22	1:J:1764:ASN:HD22	1.77	0.49
1:J:520:ASN:HD21	1:J:528:TYR:H	1.60	0.49
1:J:659:TYR:O	1:J:754:GLN:HG2	2.13	0.49
1:J:714:TRP:CD1	1:J:794:PRO:HG2	2.47	0.49
1:A:1103:ASN:HB3	1:A:1584:LEU:HD23	1.94	0.49
1:A:1357:LEU:HD12	1:A:1555:PHE:HB3	1.94	0.49
1:A:2203:LEU:O	1:A:2207:ASP:HB2	2.13	0.49
1:C:1295:ASP:HB3	1:C:1301:ARG:NE	2.28	0.49
1:C:1353:ILE:HG22	1:C:1355:PRO:HD3	1.94	0.49
1:C:1085:PHE:HE2	1:C:1767:TYR:HB3	1.78	0.49
1:C:1921:SER:O	1:C:1924:VAL:HG12	2.13	0.49
1:C:2424:GLY:N	1:C:2427:GLN:OE1	2.45	0.49
1:C:2463:ASP:O	1:C:2466:ASP:HB2	2.11	0.49
1:D:1641:PHE:HD1	1:D:1692:ILE:HB	1.78	0.49
1:D:2280:TYR:HE1	1:D:2321:HIS:HB2	1.78	0.49
1:E:1491:THR:HG21	1:E:1525:PHE:CZ	2.47	0.49
1:E:2125:THR:HA	1:E:2167:PHE:HE2	1.77	0.49
1:E:296:PHE:CZ	1:E:444:ILE:HA	2.47	0.49
1:F:1110:PHE:HE1	1:F:1126:VAL:HG12	1.78	0.49
1:G:146:LYS:O	1:G:1908:ASP:HB2	2.13	0.49
1:G:192:PHE:HD2	1:G:198:THR:HG21	1.77	0.49
1:G:488:TYR:CZ	1:G:597:ILE:HD12	2.48	0.49
1:I:1355:PRO:HD2	1:I:1532:PHE:HB2	1.95	0.49
1:I:714:TRP:NE1	1:I:794:PRO:HG2	2.27	0.49
1:J:1260:LYS:HA	1:J:1287:ARG:HH12	1.78	0.49
1:J:1596:MET:HB2	1:J:1605:LEU:HD11	1.95	0.49
1:J:1711:PHE:HE1	1:J:1714:SER:HB3	1.78	0.49
1:J:2058:ASN:OD1	1:J:2238:LEU:HD11	2.13	0.49
1:A:1257:ASP:OD1	1:A:1258:SER:N	2.40	0.49
1:A:1614:VAL:HG11	1:B:1166:ARG:HB2	1.94	0.49
1:A:2399:ARG:HD3	1:A:2410:ARG:HH11	1.78	0.49
1:B:1807:VAL:HB	1:B:1812:GLN:OE1	2.12	0.49
1:A:2063:LEU:HD11	1:B:2230:GLN:HG2	1.94	0.49
1:C:1625:LEU:HD12	1:C:1798:TYR:CD1	2.48	0.49
1:C:1807:VAL:HB	1:C:1812:GLN:OE1	2.12	0.49
1:C:1868:TYR:HE1	1:C:1970:LEU:HG	1.78	0.49
1:C:564:ARG:O	1:C:568:ILE:HG13	2.13	0.49
1:C:697:ALA:HB2	1:C:708:ALA:HB2	1.93	0.49

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1117:ASP:OD1	1:D:1118:ALA:N	2.46	0.49
1:D:1295:ASP:HB3	1:D:1301:ARG:HE	1.78	0.49
1:D:247:LEU:O	1:D:251:LEU:HG	2.13	0.49
1:F:2291:PHE:CD2	1:F:2317:MET:HG3	2.47	0.49
1:G:1355:PRO:HG2	1:G:1500:ILE:HD13	1.94	0.49
1:H:1227:GLU:HB3	1:H:1230:ARG:HG2	1.95	0.49
1:H:1604:ARG:NH1	1:H:1634:GLU:HB3	2.28	0.49
1:H:2102:LEU:HD13	1:H:2192:TRP:CZ2	2.47	0.49
1:H:461:VAL:HG22	1:H:474:VAL:HG11	1.95	0.49
1:I:1122:TYR:HD2	1:I:1146:LYS:HA	1.78	0.49
1:I:1504:ALA:HA	1:I:1542:LEU:HD12	1.94	0.49
1:I:243:ILE:HG23	1:I:247:LEU:HD22	1.95	0.49
1:J:2357:ILE:O	1:J:2361:VAL:HG23	2.12	0.49
1:J:2457:SER:HB3	1:J:2462:LEU:HD22	1.95	0.49
1:A:67:LEU:O	1:A:103:TYR:OH	2.30	0.49
1:A:1561:ASP:CG	1:A:1563:ARG:HH21	2.16	0.49
1:A:41:SER:O	1:A:42:TRP:HB3	2.11	0.49
1:B:371:LYS:HA	1:B:377:GLU:HA	1.95	0.49
1:C:136:TYR:HB3	1:C:141:ARG:HH21	1.77	0.49
1:C:2397:LYS:HD3	1:C:2400:GLU:OE2	2.12	0.49
1:D:1111:ILE:HG13	1:D:1160:PRO:HG3	1.93	0.49
1:D:1124:ARG:HB3	1:D:1144:TRP:CD2	2.48	0.49
1:D:1254:ASP:HB2	1:D:1259:TYR:CE2	2.48	0.49
1:D:2068:LEU:HD12	1:D:2227:LEU:HB3	1.94	0.49
1:D:2410:ARG:CG	1:D:2515:ILE:HG12	2.40	0.49
1:D:887:LEU:HB2	1:D:889:VAL:HG12	1.94	0.49
1:E:1497:LYS:O	1:E:1499:GLN:HG3	2.13	0.49
1:E:2102:LEU:HD13	1:E:2192:TRP:CZ2	2.48	0.49
1:E:488:TYR:HB2	1:E:490:ILE:HG12	1.94	0.49
1:F:2410:ARG:HG3	1:F:2515:ILE:HG12	1.95	0.49
1:F:612:VAL:CG1	1:F:633:LYS:HD3	2.43	0.49
1:H:1114:SER:OG	1:H:1120:GLU:HB2	2.13	0.49
1:H:1380:LYS:O	1:H:1383:ASP:HB2	2.12	0.49
1:H:1381:LEU:HB3	1:H:1523:PRO:HB2	1.94	0.49
1:H:158:GLU:HB3	1:H:982:LYS:HE2	1.95	0.49
1:I:1124:ARG:HD2	1:I:1144:TRP:CE2	2.48	0.49
1:I:1294:PHE:HA	1:I:1301:ARG:HB2	1.95	0.49
1:I:1616:ARG:NH2	1:I:1628:GLU:HB2	2.28	0.49
1:I:2360:LEU:HD22	1:I:2375:LEU:CD2	2.43	0.49
1:J:2422:LEU:H	1:J:2503:THR:HG21	1.78	0.49
1:J:398:ASN:ND2	1:J:400:ALA:HB3	2.28	0.49

*Continued on next page...*



*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1963:LEU:O	1:A:1967:VAL:HG23	2.13	0.48
1:B:347:PRO:HA	1:B:353:TYR:HD1	1.77	0.48
1:C:1333:TYR:HD2	1:C:1358:ARG:CD	2.25	0.48
1:C:1800:TRP:HB2	1:C:1816:TRP:CD1	2.47	0.48
1:C:318:VAL:HG12	1:C:325:VAL:HG22	1.95	0.48
1:D:1868:TYR:CE1	1:D:1970:LEU:HG	2.44	0.48
1:D:689:LEU:HD13	1:D:713:LEU:HD23	1.94	0.48
1:E:1649:PRO:HG3	1:E:1684:THR:O	2.13	0.48
1:F:1300:ARG:O	1:F:1585:THR:HG23	2.13	0.48
1:F:150:LEU:HB2	1:F:1905:PRO:HD2	1.95	0.48
1:F:465:ASN:ND2	1:F:471:ASN:HB2	2.27	0.48
1:G:161:THR:HG22	1:G:162:LEU:N	2.28	0.48
1:G:1711:PHE:HD1	1:G:1713:LYS:HG2	1.77	0.48
1:G:1930:ILE:HB	1:G:1931:PRO:HD3	1.94	0.48
1:G:2047:GLN:HB2	1:G:2251:TYR:HB3	1.94	0.48
1:I:1838:ASP:O	1:I:1842:GLN:HG3	2.13	0.48
1:J:592:LYS:NZ	1:J:596:ASP:OD2	2.34	0.48
1:A:1039:TYR:O	1:A:1041:PRO:HD3	2.13	0.48
1:A:1972:HIS:HA	1:B:978:SER:OG	2.14	0.48
1:A:2257:ARG:O	1:A:2261:ILE:HG12	2.13	0.48
1:B:273:PRO:HG3	1:B:434:TYR:HE2	1.78	0.48
1:B:586:SER:O	1:B:590:ILE:HG13	2.13	0.48
1:C:1111:ILE:HG13	1:C:1160:PRO:HG3	1.94	0.48
1:C:1721:TRP:HA	1:C:1740:ILE:HD12	1.95	0.48
1:C:1802:PRO:HB2	1:D:1002:GLU:HG2	1.95	0.48
1:D:1097:TYR:HB2	1:D:1160:PRO:O	2.12	0.48
1:D:161:THR:HG22	1:D:162:LEU:H	1.77	0.48
1:D:1959:TYR:HA	1:D:1962:THR:HG22	1.95	0.48
1:D:2214:ALA:O	1:D:2217:ARG:HB3	2.13	0.48
1:D:402:ILE:HD12	1:D:428:VAL:HG11	1.96	0.48
1:E:1071:ALA:O	1:E:1075:GLU:HG3	2.13	0.48
1:F:2256:GLY:HA3	1:G:698:ALA:HB2	1.96	0.48
1:G:1168:TYR:CD2	1:G:1202:HIS:HB3	2.48	0.48
1:G:1293:GLN:O	1:G:1301:ARG:HB3	2.14	0.48
1:H:1654:THR:HG22	1:H:1655:HIS:N	2.29	0.48
1:H:1831:PRO:HG3	1:H:1843:HIS:HB2	1.95	0.48
1:H:1845:PRO:O	1:H:1849:LYS:N	2.29	0.48
1:H:2108:ASN:HB3	1:H:2111:GLU:HG3	1.95	0.48
1:I:1721:TRP:HA	1:I:1740:ILE:HD12	1.94	0.48
1:J:1313:PRO:HG2	1:J:1573:PRO:HD2	1.95	0.48
1:J:2039:THR:O	1:J:2043:ILE:HG12	2.13	0.48

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:2433:LEU:HD22	1:J:2482:LEU:HD21	1.95	0.48
1:J:538:LEU:HB2	1:J:566:LEU:HD22	1.96	0.48
1:A:1092:LYS:O	1:A:1112:GLY:HA2	2.13	0.48
1:B:1177:ILE:HG12	1:C:2145:PHE:HD2	1.77	0.48
1:B:1662:LYS:HD2	1:B:1712:LYS:HE2	1.95	0.48
1:B:272:GLU:O	1:B:275:SER:HB3	2.13	0.48
1:B:260:ALA:HB1	1:B:434:TYR:HB2	1.94	0.48
1:C:1260:LYS:HA	1:C:1287:ARG:HH12	1.78	0.48
1:C:1459:ASP:CB	1:C:1462:ASN:HB3	2.43	0.48
1:C:2099:TYR:CD2	1:C:2195:GLN:HB3	2.48	0.48
1:D:2102:LEU:HD13	1:D:2192:TRP:CZ2	2.48	0.48
1:D:521:THR:HG23	1:D:522:PRO:CD	2.40	0.48
1:D:714:TRP:NE1	1:D:794:PRO:HG2	2.29	0.48
1:E:1777:MET:HE1	1:E:1852:THR:HG23	1.94	0.48
1:F:1408:TYR:CD2	1:F:1467:LEU:HD12	2.48	0.48
1:F:2331:VAL:HG23	1:G:2451:SER:OG	2.13	0.48
1:F:467:GLN:OE1	1:F:467:GLN:N	2.47	0.48
1:F:905:SER:HB2	1:F:910:PRO:HD3	1.94	0.48
1:G:1438:ILE:HB	1:G:1441:ALA:HB3	1.94	0.48
1:G:41:SER:O	1:G:41:SER:OG	2.28	0.48
1:H:1235:TYR:HA	1:H:1303:ASN:ND2	2.29	0.48
1:H:2409:ILE:HD11	1:H:2516:LYS:HG3	1.95	0.48
1:I:1805:TYR:OH	1:I:1817:ASN:HB2	2.14	0.48
1:J:1410:TYR:CE2	1:J:1464:PRO:HB3	2.48	0.48
1:J:2399:ARG:HD3	1:J:2410:ARG:NH1	2.28	0.48
1:A:2165:MET:HB3	1:E:2128:VAL:HG22	1.96	0.48
1:A:2281:ARG:HD3	1:A:2289:ALA:O	2.13	0.48
1:B:1279:THR:HG23	1:B:1282:GLN:H	1.78	0.48
1:B:1924:VAL:HG23	1:B:1927:ARG:NH2	2.29	0.48
1:B:414:LEU:HB2	1:B:415:PRO:HD2	1.96	0.48
1:C:2375:LEU:HD21	1:C:2387:LEU:HD21	1.96	0.48
1:B:2330:GLU:HB3	1:C:2460:PHE:CE2	2.49	0.48
1:C:745:ALA:HB3	1:C:749:GLN:OE1	2.13	0.48
1:C:844:ASN:H	1:D:564:ARG:HH22	1.61	0.48
1:D:2360:LEU:HD22	1:D:2375:LEU:HD22	1.95	0.48
1:D:417:GLY:N	1:D:418:SER:HA	2.27	0.48
1:E:1300:ARG:O	1:E:1585:THR:HG23	2.14	0.48
1:E:1642:TYR:HE2	1:E:1691:PHE:HB2	1.77	0.48
1:F:650:GLN:O	1:F:653:ILE:HG12	2.13	0.48
1:F:733:TRP:HE1	1:F:748:THR:HB	1.78	0.48
1:F:847:LEU:O	1:F:851:ILE:HG13	2.14	0.48

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1071:ALA:O	1:G:1075:GLU:HG3	2.13	0.48
1:G:1505:GLY:HA2	1:G:1542:LEU:HA	1.95	0.48
1:G:2142:PRO:HB2	1:G:2145:PHE:CZ	2.49	0.48
1:G:601:THR:HG23	1:G:604:GLU:H	1.79	0.48
1:H:146:LYS:O	1:H:1908:ASP:HB2	2.13	0.48
1:H:464:VAL:HG21	1:H:477:LYS:HD2	1.95	0.48
1:I:1648:PRO:O	1:I:1681:LEU:HD11	2.12	0.48
1:J:1121:TYR:O	1:J:1147:ILE:HG12	2.14	0.48
1:A:1919:HIS:CE1	1:A:1923:ILE:HD11	2.49	0.48
1:B:1770:GLU:HA	1:B:1774:TYR:HB2	1.94	0.48
1:B:1887:LEU:HD23	1:B:1963:LEU:HD13	1.95	0.48
1:C:1248:MET:CE	1:C:1286:TYR:HB2	2.43	0.48
1:C:608:LEU:O	1:C:612:VAL:HG23	2.14	0.48
1:D:1245:LEU:HG	1:D:1269:ILE:HB	1.94	0.48
1:D:1930:ILE:HB	1:D:1931:PRO:HD3	1.95	0.48
1:E:1088:VAL:HG11	1:E:1767:TYR:CZ	2.48	0.48
1:E:1138:ALA:HB2	1:E:1761:SER:O	2.13	0.48
1:F:814:LEU:HD22	1:F:838:ALA:HB1	1.94	0.48
1:G:220:GLN:HA	1:G:223:ALA:HB3	1.94	0.48
1:H:1475:ASP:HB2	1:H:1479:THR:HB	1.95	0.48
1:H:176:GLU:HG2	1:H:954:VAL:HG22	1.95	0.48
1:H:2331:VAL:HG23	1:I:2451:SER:OG	2.13	0.48
1:H:568:ILE:HG22	1:H:619:LEU:HD13	1.95	0.48
1:H:605:LEU:O	1:H:609:LEU:HG	2.13	0.48
1:I:2364:GLY:HA2	1:I:2377:PHE:CE2	2.48	0.48
1:I:314:ILE:HD13	1:I:329:ARG:HG3	1.95	0.48
1:J:250:ILE:HG23	1:J:267:ASN:HD21	1.77	0.48
1:A:1659:ARG:HB3	1:A:1660:TRP:CE3	2.48	0.48
1:A:402:ILE:HD12	1:A:428:VAL:HG11	1.94	0.48
1:A:568:ILE:HD13	1:A:605:LEU:HD12	1.95	0.48
1:B:761:GLN:OE1	1:B:796:HIS:HE1	1.96	0.48
1:C:441:ASN:OD1	1:C:445:ARG:NH1	2.47	0.48
1:D:1333:TYR:HD2	1:D:1358:ARG:HD3	1.78	0.48
1:D:1779:VAL:HG11	1:D:1795:TRP:CD2	2.48	0.48
1:E:1375:MET:SD	1:E:1385:PHE:HE1	2.37	0.48
1:E:1863:ARG:HD3	1:E:1882:TRP:CH2	2.49	0.48
1:E:610:ILE:O	1:E:613:GLY:HA3	2.13	0.48
1:F:2348:ASN:O	1:F:2350:PRO:HD3	2.12	0.48
1:G:1157:THR:HG21	1:G:1172:LEU:HB3	1.96	0.48
1:G:1942:ASN:O	1:G:1945:THR:HB	2.13	0.48
1:H:1658:GLU:OE1	1:H:1712:LYS:HG3	2.13	0.48

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:1849:LYS:O	1:H:1852:THR:HB	2.14	0.48
1:H:2106:ASN:HD21	1:H:2189:ARG:HB2	1.78	0.48
1:I:1121:TYR:O	1:I:1147:ILE:HG12	2.12	0.48
1:I:1382:GLY:C	1:I:1413:ASN:HD21	2.16	0.48
1:I:1741:LEU:HD23	1:I:1742:THR:N	2.23	0.48
1:I:2423:LEU:HD22	1:I:2500:MET:HG2	1.95	0.48
1:I:332:ARG:NH1	1:I:344:GLU:HG2	2.29	0.48
1:I:370:ILE:HG12	1:I:410:LEU:HD22	1.94	0.48
1:I:612:VAL:N	1:I:613:GLY:HA2	2.27	0.48
1:J:1333:TYR:HD2	1:J:1358:ARG:HD3	1.79	0.48
1:J:598:HIS:HB2	1:J:600:LEU:HD13	1.95	0.48
1:A:1855:ARG:O	1:A:1858:ASP:HB2	2.13	0.48
1:A:366:SER:OG	1:A:415:PRO:HD3	2.13	0.48
1:B:233:GLN:HB3	1:B:479:PHE:HD2	1.78	0.48
1:A:2327:ARG:NH2	1:B:2470:LEU:HD23	2.28	0.48
1:C:280:GLU:HG2	1:C:1399:SER:HB2	1.94	0.48
1:C:1604:ARG:HE	1:C:1637:LEU:HD23	1.78	0.48
1:C:2458:GLY:O	1:C:2459:GLN:HG2	2.13	0.48
1:C:353:TYR:CE2	1:C:402:ILE:HD11	2.49	0.48
1:D:1321:ASP:HB3	1:D:1569:SER:HB3	1.95	0.48
1:D:2360:LEU:HD21	1:D:2367:SER:HA	1.95	0.48
1:E:1416:GLY:HA2	1:E:1417:LEU:HA	1.57	0.48
1:E:73:GLN:OE1	1:E:1956:MET:HB2	2.13	0.48
1:F:1419:GLN:HB3	1:F:1462:ASN:CG	2.34	0.48
1:F:1494:SER:HB2	1:F:1497:LYS:HG3	1.95	0.48
1:F:2143:ASN:C	1:G:2151:GLY:HA2	2.34	0.48
1:G:1770:GLU:HA	1:G:1774:TYR:HB2	1.94	0.48
1:G:779:PHE:CE1	1:G:803:MET:HE3	2.48	0.48
1:H:1317:SER:HB3	1:H:1336:ASP:HB2	1.94	0.48
1:H:2087:LYS:HD3	1:I:2204:LYS:HB3	1.95	0.48
1:I:1300:ARG:O	1:I:1585:THR:OG1	2.28	0.48
1:I:2102:LEU:HB3	1:I:2192:TRP:CE3	2.49	0.48
1:J:308:TYR:CE2	1:J:344:GLU:HB3	2.49	0.48
1:J:402:ILE:HD12	1:J:428:VAL:HG11	1.96	0.48
1:A:125:GLU:OE1	1:A:1015:ARG:NH1	2.47	0.48
1:A:231:MET:CG	1:A:898:VAL:HG23	2.44	0.48
1:B:1238:GLY:O	1:B:1305:ARG:HG3	2.13	0.48
1:B:42:TRP:HH2	1:B:1321:ASP:HB2	1.79	0.48
1:B:146:LYS:O	1:B:1906:ARG:HG2	2.14	0.48
1:C:1217:VAL:HG22	1:C:1220:LYS:HB2	1.95	0.48
1:C:161:THR:C	1:C:163:SER:H	2.16	0.48

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1819:ARG:O	1:D:1822:LEU:N	2.46	0.48
1:D:1966:ARG:HG2	1:D:1976:ILE:HD12	1.94	0.48
1:D:220:GLN:HA	1:D:223:ALA:HB3	1.95	0.48
1:D:2430:GLN:N	1:D:2497:GLN:OE1	2.44	0.48
1:D:259:ASN:HB3	1:D:263:LEU:HG	1.96	0.48
1:D:232:HIS:HB2	1:D:903:ILE:HG12	1.96	0.48
1:D:930:GLN:HA	1:D:933:THR:HG22	1.95	0.48
1:E:1627:MET:HA	1:E:1630:GLN:HB2	1.94	0.48
1:E:1649:PRO:HG3	1:E:1684:THR:HG23	1.96	0.48
1:E:1088:VAL:HG11	1:E:1767:TYR:CE1	2.49	0.48
1:E:353:TYR:CE2	1:E:402:ILE:HD11	2.48	0.48
1:E:477:LYS:HD3	1:E:499:CYS:SG	2.54	0.48
1:E:687:ASP:HB3	1:E:690:HIS:HB2	1.95	0.48
1:E:784:GLU:HG3	1:E:784:GLU:H	1.38	0.48
1:F:123:TYR:CG	1:F:1907:LEU:HD21	2.49	0.48
1:F:1868:TYR:CG	1:F:1976:ILE:HG13	2.48	0.48
1:F:2126:THR:HG23	1:J:1204:ARG:NH2	2.28	0.48
1:F:42:TRP:CZ2	1:F:1320:LYS:HB3	2.48	0.48
1:G:1097:TYR:HB2	1:G:1160:PRO:O	2.13	0.48
1:G:649:PHE:O	1:G:653:ILE:HG23	2.14	0.48
1:H:1208:THR:HG21	1:I:2126:THR:HG22	1.96	0.48
1:G:1810:GLN:HE22	1:H:1321:ASP:HA	1.79	0.48
1:H:2025:ASN:ND2	1:H:2272:ARG:HD2	2.28	0.48
1:I:1313:PRO:HG2	1:I:1573:PRO:HD2	1.95	0.48
1:I:1640:GLY:HA2	1:I:1691:PHE:HE1	1.78	0.48
1:J:161:THR:C	1:J:163:SER:H	2.17	0.48
1:J:1805:TYR:CZ	1:J:1817:ASN:HB2	2.49	0.48
1:J:2012:SER:HA	1:J:2274:LEU:HD23	1.96	0.48
1:J:2102:LEU:HB3	1:J:2192:TRP:CZ3	2.48	0.48
1:A:2033:LEU:HD11	1:A:2266:TYR:HA	1.95	0.48
1:A:272:GLU:O	1:A:275:SER:HB3	2.13	0.48
1:A:835:LEU:HD23	1:A:835:LEU:O	2.14	0.48
1:B:1838:ASP:O	1:B:1842:GLN:HG3	2.12	0.48
1:C:1057:MET:CE	1:C:1774:TYR:HB3	2.44	0.48
1:C:255:ILE:HD12	1:C:439:LYS:HG3	1.96	0.48
1:D:1821:LEU:HD22	1:D:1845:PRO:HB3	1.94	0.48
1:D:413:VAL:HG22	1:D:419:TRP:HB3	1.95	0.48
1:E:1413:ASN:OD1	1:E:1414:THR:N	2.46	0.48
1:E:102:GLN:HE22	1:E:1901:THR:H	1.61	0.48
1:E:1974:LEU:HA	1:E:1980:PRO:HA	1.96	0.48
1:F:1299:VAL:HG12	1:F:1587:HIS:HE1	1.77	0.48

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:361:ASN:OD1	1:F:362:PHE:N	2.47	0.48
1:G:1138:ALA:HB2	1:G:1761:SER:O	2.14	0.48
1:G:192:PHE:CE2	1:G:194:PRO:HG2	2.48	0.48
1:G:81:ALA:H	1:G:1816:TRP:HH2	1.60	0.48
1:H:1086:GLU:OE2	1:I:1166:ARG:NH2	2.38	0.48
1:H:102:GLN:HG2	1:I:302:ASN:HD21	1.79	0.48
1:J:2016:LEU:HD13	1:J:2468:LYS:HD3	1.96	0.48
1:J:2018:ARG:NH2	1:J:2468:LYS:O	2.47	0.48
1:J:2462:LEU:HD11	1:J:2470:LEU:HD13	1.96	0.48
1:J:417:GLY:N	1:J:418:SER:HA	2.27	0.48
1:F:542:SER:H	1:J:892:GLN:NE2	2.11	0.48
1:A:1321:ASP:HB3	1:A:1569:SER:HB3	1.95	0.48
1:A:1371:GLN:O	1:A:1375:MET:HG3	2.14	0.48
1:A:1088:VAL:HG11	1:A:1767:TYR:CZ	2.49	0.48
1:A:2497:GLN:HG2	1:A:2500:MET:SD	2.54	0.48
1:B:1018:PHE:HA	1:B:1021:TRP:HB2	1.95	0.48
1:C:1408:TYR:HE1	1:C:1464:PRO:HA	1.79	0.48
1:C:1102:ASN:ND2	1:C:1576:LEU:O	2.47	0.48
1:C:235:SER:HB2	1:C:902:TYR:H	1.79	0.48
1:E:1327:TYR:HE2	1:E:1487:VAL:HG11	1.76	0.48
1:F:453:SER:HB3	1:F:456:ILE:HG12	1.95	0.48
1:F:850:SER:O	1:F:854:GLN:HG3	2.14	0.48
1:G:1421:ARG:HD2	1:G:1456:TYR:CG	2.49	0.48
1:G:1323:GLY:HA3	1:G:1567:TYR:CE2	2.49	0.48
1:G:300:ALA:HB2	1:G:306:GLN:HE21	1.79	0.48
1:H:1130:LYS:HB2	1:H:1140:ALA:HB2	1.96	0.48
1:H:1639:LYS:HB2	1:H:1694:LEU:O	2.13	0.48
1:H:2039:THR:O	1:H:2043:ILE:HG12	2.14	0.48
1:G:2334:THR:N	1:H:2428:ASP:OD2	2.28	0.48
1:I:1371:GLN:O	1:I:1375:MET:HG3	2.14	0.48
1:I:2414:GLN:NE2	1:I:2415:ILE:O	2.47	0.48
1:I:519:PHE:HB3	1:I:550:ILE:CG2	2.44	0.48
1:I:1117:ASP:OD2	1:J:1211:THR:HB	2.14	0.48
1:J:944:ALA:HA	1:J:964:ARG:NH2	2.29	0.48
1:A:1172:LEU:HD11	1:A:1221:ILE:HD11	1.96	0.47
1:A:1604:ARG:HH12	1:A:1634:GLU:HB3	1.79	0.47
1:A:524:LEU:HD22	1:A:546:TRP:HD1	1.78	0.47
1:B:308:TYR:CE1	1:B:313:LEU:HB2	2.48	0.47
1:D:537:ASP:OD2	1:D:539:ASN:HB2	2.14	0.47
1:E:1268:TYR:HE1	1:E:1278:MET:HG3	1.79	0.47
1:E:1424:PHE:HE2	1:E:1434:VAL:HG21	1.79	0.47

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1664:TYR:CE2	1:E:1675:ILE:HB	2.49	0.47
1:F:465:ASN:HD22	1:F:471:ASN:HB2	1.79	0.47
1:G:1121:TYR:HB2	1:G:1147:ILE:CD1	2.44	0.47
1:G:283:LYS:HG3	1:G:288:LEU:O	2.13	0.47
1:H:1279:THR:OG1	1:H:1280:PRO:HD2	2.14	0.47
1:H:2410:ARG:HG3	1:H:2515:ILE:HG12	1.96	0.47
1:I:1213:ILE:HD13	1:I:1273:MET:HG3	1.95	0.47
1:I:1704:HIS:CE1	1:I:1727:ARG:HB3	2.49	0.47
1:I:1868:TYR:HE1	1:I:1970:LEU:HG	1.77	0.47
1:I:2065:LEU:HD23	1:I:2065:LEU:HA	1.69	0.47
1:J:1422:LEU:HD22	1:J:1445:LEU:HD12	1.95	0.47
1:J:1641:PHE:HD1	1:J:1692:ILE:HB	1.79	0.47
1:A:1264:MET:SD	1:A:1287:ARG:HB3	2.54	0.47
1:A:1268:TYR:HH	1:A:1286:TYR:HH	1.47	0.47
1:A:326:LYS:NZ	1:A:430:GLU:HB3	2.29	0.47
1:B:2106:ASN:OD1	1:B:2107:ILE:HG13	2.14	0.47
1:C:2033:LEU:CD1	1:C:2266:TYR:HA	2.44	0.47
1:D:340:GLN:HA	1:D:360:LYS:HB3	1.96	0.47
1:D:41:SER:O	1:D:42:TRP:HB2	2.14	0.47
1:D:481:THR:O	1:D:485:MET:HG2	2.13	0.47
1:D:601:THR:HG23	1:D:604:GLU:H	1.79	0.47
1:E:1384:LYS:HE2	1:E:1488:GLU:OE2	2.14	0.47
1:E:1352:TYR:HA	1:E:1535:LEU:O	2.14	0.47
1:C:1066:GLN:HG2	1:E:2178:LYS:NZ	2.29	0.47
1:A:673:THR:HG1	1:E:2253:TRP:HE1	1.62	0.47
1:F:1514:ASP:OD2	1:F:1515:LYS:HG3	2.14	0.47
1:F:1357:LEU:HD12	1:F:1555:PHE:HD2	1.79	0.47
1:F:612:VAL:N	1:F:613:GLY:HA2	2.28	0.47
1:F:750:GLU:O	1:F:754:GLN:HG3	2.13	0.47
1:F:947:SER:CB	1:F:975:ASN:HD22	2.27	0.47
1:H:1770:GLU:HA	1:H:1774:TYR:HB2	1.95	0.47
1:H:2033:LEU:CD1	1:H:2266:TYR:HA	2.44	0.47
1:H:2095:ARG:HD3	1:I:2198:ASN:ND2	2.27	0.47
1:H:2405:SER:N	1:I:2382:ASP:OD2	2.47	0.47
1:I:1124:ARG:HD2	1:I:1144:TRP:CZ2	2.49	0.47
1:I:1660:TRP:O	1:I:1712:LYS:HG2	2.15	0.47
1:I:278:MET:SD	1:I:1478:GLY:HA2	2.54	0.47
1:J:1517:VAL:HG11	1:J:1520:GLN:HG3	1.95	0.47
1:J:458:GLU:CD	1:J:506:ARG:HH22	2.16	0.47
1:J:612:VAL:O	1:J:799:LEU:HD13	2.14	0.47
1:A:1452:ILE:HD12	1:E:90:ILE:HA	1.96	0.47

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2145:PHE:HB3	1:A:2146:GLY:HA2	1.96	0.47
1:A:2078:LEU:HD11	1:A:2216:ARG:HG2	1.97	0.47
1:A:302:ASN:OD1	1:A:303:PHE:N	2.48	0.47
1:A:896:ALA:O	1:A:900:LEU:HG	2.13	0.47
1:B:1704:HIS:HD2	1:B:1726:VAL:HG23	1.77	0.47
1:B:361:ASN:OD1	1:B:362:PHE:N	2.46	0.47
1:C:1955:VAL:O	1:C:1958:ASN:HB3	2.14	0.47
1:C:520:ASN:ND2	1:C:528:TYR:H	2.12	0.47
1:D:1394:ASN:HB3	1:D:1396:ASN:O	2.14	0.47
1:D:1595:TYR:HB3	1:D:1637:LEU:HD22	1.97	0.47
1:D:2312:LEU:O	1:D:2316:GLN:HG3	2.14	0.47
1:D:348:PHE:CE1	1:D:354:ARG:HD3	2.48	0.47
1:E:1372:CYS:HA	1:E:1375:MET:HE2	1.96	0.47
1:E:689:LEU:HD21	1:E:716:ASP:OD2	2.15	0.47
1:E:138:LEU:HD11	1:E:996:TYR:CE2	2.50	0.47
1:F:104:VAL:HG12	1:F:108:THR:HG21	1.94	0.47
1:F:1074:VAL:HG21	1:F:1779:VAL:HG13	1.97	0.47
1:F:1100:ASN:HB2	1:F:1106:GLY:HA3	1.97	0.47
1:F:370:ILE:HG12	1:F:410:LEU:HD22	1.95	0.47
1:G:161:THR:HG22	1:G:162:LEU:H	1.78	0.47
1:G:477:LYS:HD3	1:G:499:CYS:SG	2.54	0.47
1:H:1353:ILE:HG22	1:H:1355:PRO:HD3	1.96	0.47
1:H:380:ARG:NH1	1:H:382:GLU:OE1	2.47	0.47
1:I:1382:GLY:H	1:I:1491:THR:CG2	2.27	0.47
1:I:2312:LEU:O	1:I:2316:GLN:HG3	2.14	0.47
1:I:612:VAL:HG22	1:I:637:ILE:HD12	1.95	0.47
1:J:1599:GLN:HB3	1:J:1674:HIS:HE1	1.80	0.47
1:J:2375:LEU:HD21	1:J:2387:LEU:HD21	1.95	0.47
1:J:612:VAL:N	1:J:613:GLY:HA2	2.28	0.47
1:J:67:LEU:HD11	1:J:99:ARG:HH21	1.79	0.47
1:A:1124:ARG:HD2	1:A:1144:TRP:CZ2	2.50	0.47
1:A:1149:CYS:SG	1:A:1150:PRO:HD2	2.55	0.47
1:A:1595:TYR:CD2	1:A:1637:LEU:HB2	2.49	0.47
1:A:255:ILE:HD12	1:A:439:LYS:HG3	1.97	0.47
1:A:452:LEU:HD22	1:A:456:ILE:HG21	1.96	0.47
1:A:564:ARG:O	1:A:568:ILE:HG13	2.15	0.47
1:B:1294:PHE:HA	1:B:1301:ARG:CB	2.44	0.47
1:B:1385:PHE:HB3	1:B:1409:GLN:HA	1.96	0.47
1:A:1898:LEU:HD12	1:B:300:ALA:H	1.78	0.47
1:C:1336:ASP:O	1:C:1338:PRO:HD3	2.15	0.47
1:C:1416:GLY:HA2	1:C:1417:LEU:HA	1.50	0.47

*Continued on next page...*



*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1615:ALA:O	1:C:1618:THR:HG22	2.14	0.47
1:C:2068:LEU:HD12	1:C:2227:LEU:HB3	1.96	0.47
1:B:2305:LEU:HD21	1:C:2258:LEU:HD12	1.97	0.47
1:E:2458:GLY:O	1:E:2459:GLN:HG2	2.14	0.47
1:E:822:LEU:HD23	1:E:822:LEU:HA	1.73	0.47
1:F:1284:ASN:HA	1:F:1287:ARG:HB3	1.95	0.47
1:F:347:PRO:HA	1:F:353:TYR:CD1	2.49	0.47
1:G:1497:LYS:O	1:G:1499:GLN:HG3	2.15	0.47
1:G:1307:ALA:O	1:G:1577:LYS:HD2	2.13	0.47
1:G:1901:THR:O	1:G:1945:THR:HG23	2.15	0.47
1:G:458:GLU:OE1	1:G:506:ARG:NH2	2.35	0.47
1:G:497:ILE:HD13	1:G:589:TYR:CD2	2.45	0.47
1:G:911:THR:HG22	1:G:913:ALA:H	1.79	0.47
1:H:159:LEU:CD1	1:H:985:ARG:HG3	2.44	0.47
1:H:2144:ILE:HD12	1:I:2144:ILE:HG21	1.96	0.47
1:H:2167:PHE:CD1	1:I:2166:GLU:HG2	2.50	0.47
1:H:379:VAL:HG11	1:H:393:ALA:HB1	1.95	0.47
1:H:716:ASP:OD1	1:H:727:ALA:N	2.38	0.47
1:I:1641:PHE:HD1	1:I:1692:ILE:HB	1.78	0.47
1:I:2434:SER:HB2	1:I:2483:THR:HB	1.96	0.47
1:I:598:HIS:HB2	1:I:600:LEU:HD13	1.96	0.47
1:I:614:GLU:O	1:I:617:THR:N	2.38	0.47
1:J:2393:PHE:HE1	1:J:2482:LEU:HB2	1.79	0.47
1:J:255:ILE:HD11	1:J:442:LYS:HE2	1.95	0.47
1:A:1090:ASN:HD21	1:A:1610:ALA:HB3	1.79	0.47
1:B:1125:SER:H	1:B:1142:SER:HB3	1.79	0.47
1:B:1375:MET:SD	1:B:1385:PHE:HE1	2.38	0.47
1:C:1816:TRP:CZ2	1:C:1849:LYS:HD3	2.49	0.47
1:C:322:ASP:HB2	1:C:324:THR:HG22	1.96	0.47
1:C:852:GLN:HB3	1:C:880:TRP:CZ3	2.49	0.47
1:D:1101:ILE:HD11	1:D:1311:GLU:HB2	1.95	0.47
1:D:194:PRO:O	1:D:285:TYR:OH	2.18	0.47
1:E:1261:ASN:H	1:E:1287:ARG:NH1	2.13	0.47
1:E:81:ALA:N	1:E:1816:TRP:HH2	2.07	0.47
1:E:2203:LEU:O	1:E:2207:ASP:HB2	2.15	0.47
1:F:129:LEU:HD11	1:F:1018:PHE:CE2	2.50	0.47
1:F:2016:LEU:HD13	1:F:2468:LYS:HD3	1.97	0.47
1:F:537:ASP:OD2	1:F:539:ASN:HB2	2.14	0.47
1:G:2143:ASN:HB3	1:H:2151:GLY:HA2	1.96	0.47
1:G:2399:ARG:HD3	1:G:2410:ARG:HH11	1.80	0.47
1:G:2422:LEU:O	1:G:2423:LEU:HD23	2.15	0.47

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1998:ALA:N	1:G:812:ASN:OD1	2.44	0.47
1:G:847:LEU:O	1:G:851:ILE:HG13	2.15	0.47
1:G:887:LEU:HB2	1:G:889:VAL:HG12	1.96	0.47
1:H:1226:LEU:HD12	1:H:1228:LYS:HG3	1.96	0.47
1:H:1294:PHE:CD1	1:H:1301:ARG:HB2	2.48	0.47
1:H:42:TRP:HH2	1:H:1321:ASP:HB2	1.78	0.47
1:H:2411:ARG:O	1:H:2514:THR:N	2.45	0.47
1:H:640:TRP:CD2	1:H:802:ILE:HG22	2.49	0.47
1:I:784:GLU:HG2	1:I:790:THR:HA	1.97	0.47
1:I:2143:ASN:HB3	1:J:2151:GLY:HA2	1.96	0.47
1:J:483:TYR:OH	1:J:487:ARG:HD2	2.14	0.47
1:A:2129:GLN:HG3	1:A:2164:VAL:HG21	1.96	0.47
1:A:210:VAL:HG11	1:A:922:LEU:HB3	1.96	0.47
1:B:26:HIS:HE1	1:B:1917:ASN:OD1	1.97	0.47
1:B:2361:VAL:HG12	1:B:2491:MET:HB2	1.97	0.47
1:C:1098:HIS:CE1	1:C:1103:ASN:HA	2.50	0.47
1:C:1696:ASP:OD2	1:C:1696:ASP:N	2.48	0.47
1:C:378:LEU:HD13	1:C:395:ILE:HG21	1.96	0.47
1:C:471:ASN:HB3	1:C:474:VAL:HG23	1.96	0.47
1:D:1121:TYR:O	1:D:1147:ILE:HG12	2.15	0.47
1:D:179:LEU:HB3	1:D:184:LYS:HG2	1.96	0.47
1:D:189:LEU:HA	1:D:189:LEU:HD12	1.70	0.47
1:D:2143:ASN:C	1:E:2151:GLY:HA2	2.35	0.47
1:D:2399:ARG:HD3	1:D:2410:ARG:HH11	1.80	0.47
1:E:1291:TYR:C	1:E:1293:GLN:H	2.18	0.47
1:E:1074:VAL:HG21	1:E:1779:VAL:HG13	1.96	0.47
1:E:298:GLY:HA2	1:E:309:SER:OG	2.15	0.47
1:E:847:LEU:O	1:E:851:ILE:HG13	2.15	0.47
1:G:201:HIS:HB3	1:G:204:TYR:HB3	1.96	0.47
1:G:2099:TYR:CD2	1:G:2195:GLN:HB3	2.50	0.47
1:G:607:LEU:HD22	1:G:652:PHE:CE2	2.50	0.47
1:H:1033:GLY:HA2	1:H:1044:TYR:OH	2.14	0.47
1:H:1039:TYR:O	1:H:1041:PRO:HD3	2.15	0.47
1:H:2497:GLN:O	1:H:2501:LEU:HG	2.14	0.47
1:H:276:LEU:HA	1:H:281:TYR:CD2	2.48	0.47
1:H:298:GLY:HA2	1:H:309:SER:OG	2.15	0.47
1:I:1238:GLY:O	1:I:1305:ARG:HG3	2.15	0.47
1:H:2073:LYS:NZ	1:I:2218:GLU:OE2	2.26	0.47
1:I:361:ASN:OD1	1:I:362:PHE:N	2.46	0.47
1:J:1158:ILE:HD11	1:J:1169:LEU:HD13	1.96	0.47
1:I:2305:LEU:HD21	1:J:2258:LEU:HD12	1.96	0.47

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:627:LEU:O	1:A:631:ILE:HG13	2.14	0.47
1:A:640:TRP:CD2	1:A:802:ILE:HG22	2.49	0.47
1:B:195:SER:HB3	1:B:198:THR:CG2	2.44	0.47
1:B:850:SER:O	1:B:854:GLN:HG3	2.13	0.47
1:C:76:ASN:ND2	1:C:1892:ASP:O	2.24	0.47
1:C:2364:GLY:HA2	1:C:2377:PHE:CE2	2.49	0.47
1:D:1111:ILE:HD11	1:D:1160:PRO:HB3	1.95	0.47
1:D:1630:GLN:HA	1:D:1758:MET:HE1	1.97	0.47
1:D:2258:LEU:O	1:D:2258:LEU:HD23	2.14	0.47
1:D:598:HIS:HB2	1:D:600:LEU:HD13	1.96	0.47
1:E:195:SER:HB3	1:E:198:THR:HG21	1.95	0.47
1:E:761:GLN:OE1	1:E:796:HIS:HE1	1.98	0.47
1:F:1254:ASP:C	1:F:1256:LEU:N	2.67	0.47
1:F:2432:ILE:O	1:F:2484:LEU:HA	2.15	0.47
1:F:786:PHE:HB3	1:F:803:MET:SD	2.55	0.47
1:G:1796:LEU:HD13	1:G:1856:THR:HA	1.97	0.47
1:H:130:HIS:CD2	1:H:136:TYR:HB2	2.49	0.47
1:H:1381:LEU:HD13	1:H:1382:GLY:N	2.29	0.47
1:H:2144:ILE:HG23	1:H:2149:GLY:O	2.15	0.47
1:I:2107:ILE:HG23	1:I:2111:GLU:HB2	1.97	0.47
1:I:629:THR:HG23	1:I:632:ARG:NH1	2.30	0.47
1:I:832:ALA:HB2	1:I:868:PHE:CZ	2.50	0.47
1:J:1268:TYR:CD1	1:J:1278:MET:HG3	2.50	0.47
1:J:1411:SER:HA	1:J:1415:SER:CB	2.45	0.47
1:J:205:GLU:OE2	1:J:208:ARG:NH1	2.48	0.47
1:J:2412:ILE:HG13	1:J:2475:ILE:O	2.14	0.47
1:J:654:MET:HE3	1:J:765:VAL:HG22	1.96	0.47
1:A:1547:ASN:O	1:A:1575:THR:HG23	2.15	0.47
1:A:1765:SER:HA	1:A:1768:PHE:HD1	1.80	0.47
1:A:2059:GLN:HB2	1:B:2233:GLN:OE1	2.15	0.47
1:A:2126:THR:HG23	1:E:1204:ARG:NH2	2.30	0.47
1:A:370:ILE:HD12	1:A:379:VAL:HB	1.96	0.47
1:B:1291:TYR:C	1:B:1293:GLN:H	2.17	0.47
1:B:852:GLN:HB3	1:B:880:TRP:CZ3	2.49	0.47
1:C:1162:ILE:HD13	1:C:1167:LEU:HA	1.97	0.47
1:C:1352:TYR:HA	1:C:1535:LEU:O	2.15	0.47
1:C:192:PHE:HD2	1:C:198:THR:HG21	1.80	0.47
1:B:2059:GLN:HB2	1:C:2233:GLN:OE1	2.15	0.47
1:D:2124:LEU:HD12	1:D:2167:PHE:HZ	1.79	0.47
1:D:92:TYR:HA	1:D:1926:LEU:HD11	1.97	0.47
1:E:1517:VAL:HG11	1:E:1520:GLN:HB3	1.97	0.47

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:2393:PHE:HE1	1:E:2482:LEU:HB2	1.78	0.47
1:F:1327:TYR:CE2	1:F:1487:VAL:HG11	2.50	0.47
1:G:2273:CYS:HB3	1:G:2292:ILE:CD1	2.44	0.47
1:G:2008:LYS:NZ	1:G:2297:TRP:HD1	2.13	0.47
1:G:612:VAL:N	1:G:613:GLY:HA2	2.29	0.47
1:H:1327:TYR:CE2	1:H:1487:VAL:HG11	2.50	0.47
1:H:1057:MET:HB2	1:H:1770:GLU:OE2	2.15	0.47
1:H:1921:SER:O	1:H:1924:VAL:HG12	2.14	0.47
1:I:212:GLN:NE2	1:I:240:ASN:HA	2.30	0.47
1:I:336:THR:HA	1:I:337:ASN:HA	1.74	0.47
1:I:461:VAL:HG22	1:I:474:VAL:HG11	1.96	0.47
1:J:154:ASN:O	1:J:984:THR:OG1	2.33	0.47
1:J:181:ASN:OD1	1:J:182:TYR:N	2.44	0.47
1:A:68:LYS:HZ3	1:A:1040:TYR:HE2	1.63	0.47
1:A:1153:PRO:CB	1:A:1171:TRP:HB2	2.42	0.47
1:A:1498:VAL:HG21	1:A:1530:TYR:CE2	2.47	0.47
1:A:1708:TYR:CZ	1:A:1717:ASP:HB3	2.49	0.47
1:A:2214:ALA:O	1:A:2217:ARG:HB3	2.15	0.47
1:A:2247:ASN:HB2	1:A:2250:LEU:H	1.79	0.47
1:A:783:PRO:HB3	1:A:794:PRO:HB3	1.96	0.47
1:B:1459:ASP:HB3	1:B:1462:ASN:HB3	1.97	0.47
1:B:194:PRO:O	1:B:285:TYR:OH	2.14	0.47
1:B:817:LYS:O	1:B:821:VAL:HG23	2.15	0.47
1:C:1163:TYR:HB3	1:C:1168:TYR:CE1	2.50	0.47
1:C:1064:VAL:HG13	1:C:1782:ARG:HG2	1.97	0.47
1:B:1178:THR:O	1:C:2146:GLY:HA3	2.15	0.47
1:C:714:TRP:CD2	1:C:762:LEU:HD22	2.50	0.47
1:D:2411:ARG:O	1:D:2514:THR:N	2.47	0.47
1:D:778:LEU:HD21	1:D:785:MET:SD	2.54	0.47
1:E:1101:ILE:HD12	1:E:1575:THR:HG22	1.97	0.47
1:E:2459:GLN:HG3	1:E:2460:PHE:O	2.15	0.47
1:F:1475:ASP:HB2	1:F:1479:THR:H	1.80	0.47
1:F:1627:MET:HG2	1:F:1630:GLN:OE1	2.15	0.47
1:F:2046:ARG:HB3	1:F:2251:TYR:HE2	1.78	0.47
1:F:2136:ALA:HA	1:F:2156:ALA:HB1	1.96	0.47
1:F:2075:ILE:HG22	1:F:2220:ALA:HB1	1.96	0.47
1:G:2102:LEU:HB3	1:G:2192:TRP:CZ3	2.49	0.47
1:G:276:LEU:HD23	1:G:437:LEU:HD13	1.97	0.47
1:H:1411:SER:HA	1:H:1415:SER:CB	2.44	0.47
1:H:1973:ASN:O	1:H:1981:LEU:HD13	2.14	0.47
1:H:273:PRO:HG3	1:H:434:TYR:HE2	1.80	0.47

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:1111:ILE:HG13	1:I:1160:PRO:HG3	1.97	0.47
1:I:142:ARG:HD2	1:I:971:LEU:O	2.15	0.47
1:H:2128:VAL:HG22	1:I:2165:MET:HB3	1.96	0.47
1:I:2321:HIS:CE1	1:I:2322:LEU:HD23	2.50	0.47
1:J:170:LEU:HD13	1:J:182:TYR:HD2	1.79	0.47
1:J:1054:THR:OG1	1:J:1770:GLU:OE2	2.24	0.47
1:J:2226:SER:O	1:J:2230:GLN:HG3	2.15	0.47
1:J:520:ASN:ND2	1:J:528:TYR:HB2	2.26	0.47
1:B:1248:MET:CE	1:B:1286:TYR:HB2	2.45	0.47
1:B:2298:GLN:H	1:B:2303:GLY:HA2	1.78	0.47
1:B:348:PHE:CE1	1:B:354:ARG:HD3	2.50	0.47
1:B:465:ASN:HD22	1:B:471:ASN:HB2	1.79	0.47
1:C:1654:THR:HG22	1:C:1655:HIS:ND1	2.30	0.47
1:C:212:GLN:NE2	1:C:240:ASN:HA	2.30	0.47
1:C:465:ASN:ND2	1:C:471:ASN:HB2	2.30	0.47
1:D:1023:LYS:HG2	1:D:1024:TYR:CE1	2.50	0.47
1:C:90:ILE:CG1	1:D:1452:ILE:HB	2.44	0.47
1:D:143:PRO:HA	1:D:146:LYS:HE2	1.96	0.47
1:D:1736:ASN:O	1:D:1739:SER:HB2	2.15	0.47
1:D:181:ASN:OD1	1:D:182:TYR:N	2.48	0.47
1:C:2316:GLN:HG2	1:D:2268:LEU:HD11	1.97	0.47
1:D:709:HIS:O	1:D:713:LEU:HG	2.14	0.47
1:D:950:TYR:O	1:D:955:ALA:HB2	2.14	0.47
1:E:1200:LEU:HD23	1:E:1201:ALA:N	2.30	0.47
1:E:2117:LEU:HA	1:E:2117:LEU:HD23	1.73	0.47
1:E:2258:LEU:HA	1:E:2261:ILE:CG2	2.44	0.47
1:A:541:GLY:CA	1:E:892:GLN:HE22	2.18	0.47
1:F:118:TYR:HB2	1:F:1031:TRP:CE3	2.50	0.47
1:F:1279:THR:OG1	1:F:1280:PRO:HD2	2.15	0.47
1:F:1391:LEU:HD11	1:F:1406:PRO:HD2	1.95	0.47
1:F:2144:ILE:HG23	1:F:2149:GLY:O	2.14	0.47
1:F:2331:VAL:HG21	1:F:2402:TYR:HE2	1.80	0.47
1:F:371:LYS:HB3	1:F:373:ASN:O	2.14	0.47
1:F:601:THR:HG23	1:F:604:GLU:H	1.80	0.47
1:G:706:ASN:HB3	1:G:773:GLU:OE1	2.14	0.47
1:H:1492:ALA:O	1:H:1560:GLU:N	2.47	0.47
1:H:1696:ASP:OD2	1:H:1696:ASP:N	2.48	0.47
1:H:36:VAL:HG22	1:H:40:LEU:HB2	1.96	0.47
1:H:372:LEU:HD23	1:H:373:ASN:ND2	2.29	0.47
1:H:850:SER:O	1:H:854:GLN:HG3	2.15	0.47
1:I:135:VAL:HG21	1:I:958:ALA:CB	2.45	0.47

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:1514:ASP:OD2	1:I:1515:LYS:N	2.47	0.47
1:I:2333:ARG:NH1	1:I:2401:ASP:OD1	2.44	0.47
1:J:1200:LEU:HD23	1:J:1201:ALA:N	2.30	0.47
1:J:2161:THR:O	1:J:2165:MET:HG2	2.15	0.47
1:J:2458:GLY:O	1:J:2459:GLN:HG2	2.15	0.47
1:A:1153:PRO:HB3	1:A:1171:TRP:CD1	2.50	0.47
1:A:1336:ASP:O	1:A:1338:PRO:HD3	2.15	0.47
1:A:1760:PHE:CD1	1:A:1820:PRO:HG3	2.49	0.47
1:A:2033:LEU:CD1	1:A:2266:TYR:HA	2.45	0.47
1:A:650:GLN:O	1:A:653:ILE:HG12	2.15	0.47
1:B:1593:ALA:HB2	1:B:1635:PRO:HB2	1.97	0.47
1:B:2082:LYS:O	1:B:2086:GLU:HG3	2.15	0.47
1:B:2273:CYS:HB3	1:B:2292:ILE:HD13	1.97	0.47
1:B:2411:ARG:O	1:B:2514:THR:N	2.41	0.47
1:B:465:ASN:ND2	1:B:471:ASN:HB2	2.30	0.47
1:B:32:PHE:CD2	1:B:49:TYR:HD1	2.32	0.47
1:B:784:GLU:HG2	1:B:790:THR:HA	1.96	0.47
1:C:2040:LEU:HD23	1:C:2258:LEU:HB3	1.97	0.47
1:C:300:ALA:HB2	1:C:306:GLN:HE21	1.80	0.47
1:C:477:LYS:HD3	1:C:499:CYS:SG	2.54	0.47
1:C:661:LYS:HD3	1:C:750:GLU:HB3	1.95	0.47
1:E:1604:ARG:NH1	1:E:1634:GLU:HB3	2.30	0.47
1:E:1047:PRO:O	1:E:1778:LEU:HD12	2.15	0.47
1:A:978:SER:HG	1:E:1972:HIS:HA	1.79	0.47
1:E:276:LEU:HD23	1:E:437:LEU:HD13	1.96	0.47
1:E:714:TRP:CD1	1:E:794:PRO:HG2	2.50	0.47
1:F:1783:LEU:HD13	1:F:1791:GLU:HB3	1.97	0.47
1:F:2470:LEU:O	1:F:2473:GLU:HG3	2.13	0.47
1:F:37:SER:O	1:F:1503:LYS:NZ	2.48	0.47
1:G:1130:LYS:HB2	1:G:1140:ALA:HB2	1.97	0.47
1:G:2118:ARG:NH1	1:G:2177:ASP:HB3	2.30	0.47
1:G:693:ALA:HB3	1:G:694:PRO:HD3	1.95	0.47
1:H:143:PRO:HA	1:H:146:LYS:HE2	1.96	0.47
1:H:2165:MET:O	1:H:2168:SER:HB3	2.15	0.47
1:G:2059:GLN:HB2	1:H:2233:GLN:OE1	2.15	0.47
1:I:1649:PRO:O	1:I:1681:LEU:HG	2.15	0.47
1:I:1884:MET:SD	1:I:1887:LEU:HD12	2.55	0.47
1:I:2358:ASP:OD2	1:I:2502:LYS:HE2	2.14	0.47
1:I:969:GLN:OE1	1:I:999:ARG:NE	2.48	0.47
1:J:1800:TRP:HB2	1:J:1816:TRP:CD1	2.49	0.47
1:I:2059:GLN:NE2	1:J:2237:GLN:HE21	2.13	0.47

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:911:THR:HG22	1:J:913:ALA:H	1.80	0.47
1:A:1130:LYS:CB	1:A:1140:ALA:HB2	2.42	0.46
1:A:1921:SER:O	1:A:1924:VAL:HG12	2.14	0.46
1:A:2410:ARG:HB3	1:A:2477:ILE:HG13	1.96	0.46
1:A:73:GLN:NE2	1:A:1952:ILE:HB	2.30	0.46
1:A:830:LEU:HD21	1:A:835:LEU:HD12	1.97	0.46
1:B:1245:LEU:HG	1:B:1269:ILE:HB	1.97	0.46
1:B:2432:ILE:O	1:B:2484:LEU:HA	2.15	0.46
1:B:2430:GLN:N	1:B:2497:GLN:OE1	2.46	0.46
1:C:1111:ILE:HD11	1:C:1160:PRO:HB3	1.97	0.46
1:C:1224:LEU:HD11	1:C:1249:PHE:HB3	1.97	0.46
1:C:1561:ASP:CG	1:C:1563:ARG:HH21	2.18	0.46
1:C:1685:ASN:ND2	1:D:1524:SER:OG	2.48	0.46
1:C:2068:LEU:CD1	1:C:2227:LEU:HB3	2.45	0.46
1:D:1124:ARG:HD2	1:D:1144:TRP:CE2	2.49	0.46
1:D:1647:ILE:HA	1:D:1648:PRO:HD2	1.66	0.46
1:D:2102:LEU:HB3	1:D:2192:TRP:CE3	2.50	0.46
1:D:2273:CYS:HB3	1:D:2292:ILE:CD1	2.44	0.46
1:D:232:HIS:HB3	1:D:903:ILE:HG12	1.97	0.46
1:D:2388:GLN:HB3	1:D:2485:SER:CB	2.45	0.46
1:E:1328:TYR:HB2	1:E:1368:LYS:HG2	1.95	0.46
1:E:776:PHE:O	1:E:780:VAL:HG12	2.15	0.46
1:F:1380:LYS:O	1:F:1383:ASP:HB2	2.15	0.46
1:F:1326:ASP:OD2	1:F:1564:LYS:N	2.48	0.46
1:F:1657:ASP:OD1	1:F:1658:GLU:N	2.48	0.46
1:F:1885:GLN:HA	1:F:1888:HIS:NE2	2.30	0.46
1:G:193:ARG:N	1:G:194:PRO:HD2	2.30	0.46
1:G:667:ILE:HD11	1:G:757:GLN:HG3	1.97	0.46
1:H:2188:ARG:HD3	1:H:2192:TRP:CZ3	2.50	0.46
1:H:211:ILE:HG21	1:H:239:ILE:HD13	1.96	0.46
1:H:500:ASN:ND2	1:H:624:ASP:OD1	2.40	0.46
1:H:832:ALA:C	1:H:834:GLN:H	2.18	0.46
1:H:977:VAL:HG13	1:H:981:ILE:HD12	1.96	0.46
1:I:1021:TRP:HA	1:I:1025:ASN:HB2	1.96	0.46
1:I:1307:ALA:O	1:I:1577:LYS:HD2	2.16	0.46
1:I:232:HIS:CB	1:I:903:ILE:HG12	2.45	0.46
1:I:2391:VAL:HG11	1:I:2396:LEU:HD21	1.97	0.46
1:J:1268:TYR:CE1	1:J:1278:MET:HG3	2.50	0.46
1:J:989:ALA:O	1:J:992:SER:HB2	2.15	0.46
1:A:565:LEU:HB2	1:A:602:ILE:HD13	1.96	0.46
1:B:2178:LYS:NZ	1:E:1066:GLN:HG2	2.30	0.46

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1223:GLU:HB2	1:C:1265:GLN:NE2	2.31	0.46
1:C:1438:ILE:HB	1:C:1441:ALA:HB3	1.97	0.46
1:C:1642:TYR:CE2	1:C:1691:PHE:HB2	2.49	0.46
1:C:947:SER:CB	1:C:975:ASN:HD22	2.29	0.46
1:D:2004:GLN:H	1:D:2300:THR:HG23	1.80	0.46
1:D:2422:LEU:HB2	1:D:2503:THR:HG21	1.95	0.46
1:E:1405:TYR:HD1	1:E:1425:HIS:HD2	1.64	0.46
1:E:1498:VAL:HG11	1:E:1530:TYR:CE2	2.51	0.46
1:E:1668:VAL:HG13	1:E:1669:VAL:H	1.81	0.46
1:E:1973:ASN:O	1:E:1981:LEU:HD13	2.15	0.46
1:E:2294:PRO:HA	1:E:2295:GLY:HA2	1.56	0.46
1:E:2326:LYS:HE2	1:E:2516:LYS:HB2	1.97	0.46
1:E:605:LEU:O	1:E:609:LEU:HG	2.14	0.46
1:F:2147:PHE:HE2	1:J:2147:PHE:CG	2.33	0.46
1:G:1069:LEU:O	1:G:1788:ASN:ND2	2.48	0.46
1:G:1641:PHE:HD1	1:G:1692:ILE:HB	1.80	0.46
1:G:1975:SER:OG	1:G:1976:ILE:N	2.47	0.46
1:G:733:TRP:CD2	1:G:752:ILE:HD12	2.51	0.46
1:H:1090:ASN:HD21	1:H:1610:ALA:HB3	1.81	0.46
1:H:1951:GLN:HG2	1:H:1952:ILE:O	2.16	0.46
1:G:2248:GLN:NE2	1:H:702:LEU:HD12	2.30	0.46
1:I:1651:ASN:OD1	1:I:1652:LEU:HA	2.15	0.46
1:J:1022:ASP:HA	1:J:1026:LYS:HD2	1.97	0.46
1:J:1071:ALA:O	1:J:1075:GLU:HG3	2.15	0.46
1:J:2106:ASN:ND2	1:J:2189:ARG:HB2	2.30	0.46
1:J:2047:GLN:OE1	1:J:2255:ARG:HD2	2.16	0.46
1:J:528:TYR:CD1	1:J:550:ILE:HG21	2.43	0.46
1:A:1610:ALA:O	1:A:1614:VAL:HG23	2.15	0.46
1:A:601:THR:HG23	1:A:604:GLU:H	1.80	0.46
1:A:612:VAL:HG22	1:A:637:ILE:CD1	2.45	0.46
1:A:940:GLU:HG3	1:A:979:ALA:HB2	1.97	0.46
1:B:1386:ILE:HB	1:B:1408:TYR:HB3	1.97	0.46
1:B:1750:LEU:HB3	1:B:1753:ILE:HD12	1.97	0.46
1:B:497:ILE:HD13	1:B:589:TYR:CD2	2.42	0.46
1:B:601:THR:HG23	1:B:604:GLU:H	1.80	0.46
1:B:162:LEU:HD23	1:B:979:ALA:HA	1.97	0.46
1:D:1371:GLN:O	1:D:1375:MET:HG3	2.16	0.46
1:D:1653:SER:H	1:D:1713:LYS:CE	2.23	0.46
1:D:951:ILE:HD11	1:D:967:LEU:HB2	1.96	0.46
1:E:1371:GLN:O	1:E:1375:MET:HG3	2.14	0.46
1:E:1599:GLN:HB3	1:E:1674:HIS:CE1	2.48	0.46

*Continued on next page...*



*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1625:LEU:HD12	1:E:1798:TYR:CD1	2.50	0.46
1:E:1955:VAL:O	1:E:1958:ASN:HB3	2.16	0.46
1:E:2190:GLN:O	1:E:2194:ILE:HG12	2.15	0.46
1:E:2047:GLN:HE22	1:E:2255:ARG:HD2	1.80	0.46
1:E:601:THR:HG23	1:E:604:GLU:H	1.80	0.46
1:F:1063:SER:O	1:F:1066:GLN:NE2	2.46	0.46
1:F:1289:ASN:HB2	1:F:1306:TYR:CE2	2.50	0.46
1:F:1863:ARG:HD3	1:F:1882:TRP:CZ3	2.50	0.46
1:F:1890:LEU:HB3	1:F:1960:TRP:CH2	2.51	0.46
1:F:464:VAL:CG2	1:F:477:LYS:HD2	2.46	0.46
1:F:232:HIS:CB	1:F:903:ILE:HG12	2.45	0.46
1:G:1069:LEU:HD12	1:G:1786:GLU:HG3	1.96	0.46
1:G:1363:GLY:HA3	1:G:1369:ARG:HA	1.96	0.46
1:G:137:TYR:CE2	1:G:139:ASP:HB2	2.50	0.46
1:H:1972:HIS:HB2	1:H:1974:LEU:HD13	1.97	0.46
1:H:353:TYR:CE2	1:H:397:LEU:HB2	2.51	0.46
1:J:137:TYR:HE2	1:J:139:ASP:HB2	1.79	0.46
1:J:1403:MET:HA	1:J:1481:THR:OG1	2.15	0.46
1:J:1783:LEU:HB3	1:J:1792:ALA:HB2	1.96	0.46
1:J:398:ASN:HD21	1:J:400:ALA:HB3	1.81	0.46
1:J:465:ASN:OD1	1:J:466:LEU:N	2.43	0.46
1:J:984:THR:HG23	1:J:987:ALA:H	1.80	0.46
1:A:2294:PRO:HA	1:A:2295:GLY:HA2	1.70	0.46
1:A:347:PRO:HA	1:A:353:TYR:HD1	1.80	0.46
1:A:363:TYR:CE1	1:A:414:LEU:HD23	2.50	0.46
1:A:520:ASN:HD21	1:A:528:TYR:HB2	1.80	0.46
1:B:1411:SER:HA	1:B:1415:SER:CB	2.45	0.46
1:B:1381:LEU:HD22	1:B:1491:THR:HG21	1.98	0.46
1:B:714:TRP:CE3	1:B:762:LEU:HD22	2.51	0.46
1:B:706:ASN:HB3	1:B:773:GLU:OE1	2.15	0.46
1:C:1098:HIS:HE1	1:C:1103:ASN:HA	1.81	0.46
1:C:1885:GLN:HA	1:C:1888:HIS:CD2	2.51	0.46
1:C:689:LEU:HD22	1:C:712:LEU:HB3	1.97	0.46
1:C:832:ALA:C	1:C:834:GLN:H	2.17	0.46
1:C:964:ARG:HE	1:C:975:ASN:ND2	2.13	0.46
1:C:154:ASN:O	1:C:984:THR:HG23	2.16	0.46
1:D:1177:ILE:HD12	1:D:1195:ARG:HE	1.79	0.46
1:D:1348:ASP:OD1	1:D:1349:LEU:N	2.48	0.46
1:D:442:LYS:HB2	1:D:470:ILE:HD12	1.98	0.46
1:E:2308:GLU:N	1:E:2308:GLU:OE1	2.35	0.46
1:F:1090:ASN:HD21	1:F:1610:ALA:HB3	1.80	0.46

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1268:TYR:CD1	1:F:1278:MET:HG3	2.50	0.46
1:F:1887:LEU:HD23	1:F:1963:LEU:HD13	1.98	0.46
1:F:231:MET:HG3	1:F:898:VAL:HG23	1.98	0.46
1:G:48:LEU:O	1:G:52:ALA:N	2.48	0.46
1:H:1179:LYS:HD2	1:H:1179:LYS:HA	1.60	0.46
1:G:1810:GLN:NE2	1:H:1321:ASP:HA	2.31	0.46
1:H:2330:GLU:HG2	1:I:2460:PHE:CD2	2.50	0.46
1:J:1023:LYS:HG2	1:J:1024:TYR:CD1	2.51	0.46
1:J:1773:TYR:HE2	1:J:1848:TYR:CD1	2.34	0.46
1:J:832:ALA:C	1:J:834:GLN:H	2.17	0.46
1:A:1122:TYR:CD2	1:A:1146:LYS:HA	2.51	0.46
1:A:2412:ILE:HD12	1:A:2475:ILE:HB	1.97	0.46
1:A:661:LYS:HD3	1:A:750:GLU:HB3	1.98	0.46
1:B:1367:GLN:HG3	1:B:1368:LYS:N	2.31	0.46
1:B:1413:ASN:OD1	1:B:1414:THR:N	2.49	0.46
1:B:1609:PHE:CE1	1:B:1632:ILE:HD12	2.50	0.46
1:B:2033:LEU:HD11	1:B:2266:TYR:HA	1.98	0.46
1:B:2413:LYS:N	1:B:2512:ARG:O	2.46	0.46
1:C:1093:VAL:H	1:C:1594:GLN:NE2	2.14	0.46
1:C:1651:ASN:HA	1:C:1653:SER:O	2.15	0.46
1:C:182:TYR:O	1:C:185:VAL:HB	2.16	0.46
1:C:2336:SER:HB2	1:C:2506:ASP:OD1	2.16	0.46
1:C:370:ILE:O	1:C:378:LEU:N	2.45	0.46
1:C:41:SER:O	1:C:42:TRP:HB2	2.16	0.46
1:C:44:GLU:HG3	1:C:1545:ILE:HD11	1.96	0.46
1:C:589:TYR:CE2	1:C:593:LEU:HD11	2.51	0.46
1:C:734:LEU:HD23	1:C:734:LEU:HA	1.78	0.46
1:D:1091:LEU:HD21	1:D:1122:TYR:CD1	2.50	0.46
1:D:1651:ASN:CB	1:D:1652:LEU:HA	2.42	0.46
1:D:1741:LEU:HD23	1:D:1742:THR:N	2.22	0.46
1:D:1050:ARG:HG3	1:D:1838:ASP:CG	2.36	0.46
1:D:1898:LEU:HB3	1:E:299:LYS:HB2	1.97	0.46
1:D:2047:GLN:HB2	1:D:2251:TYR:HB3	1.98	0.46
1:D:2431:ALA:HB3	1:D:2450:VAL:HG13	1.98	0.46
1:D:832:ALA:HB2	1:D:868:PHE:CE2	2.50	0.46
1:D:964:ARG:HD2	1:D:975:ASN:ND2	2.30	0.46
1:A:1522:SER:OG	1:E:1746:SER:HB3	2.16	0.46
1:E:1850:VAL:O	1:E:1853:PHE:HB3	2.16	0.46
1:E:2124:LEU:O	1:E:2128:VAL:HG23	2.15	0.46
1:F:1021:TRP:HA	1:F:1025:ASN:HB2	1.97	0.46
1:F:2081:GLU:O	1:F:2084:VAL:HB	2.15	0.46

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:2106:ASN:CG	1:G:2189:ARG:HH11	2.18	0.46
1:G:2296:ALA:HB1	1:G:2306:ALA:HA	1.97	0.46
1:G:2448:LEU:HG	1:G:2458:GLY:HA3	1.98	0.46
1:H:1468:LYS:NZ	1:H:1486:PRO:HG2	2.30	0.46
1:H:109:VAL:CG2	1:H:152:GLN:HA	2.46	0.46
1:H:1959:TYR:HA	1:H:1962:THR:HG22	1.97	0.46
1:I:1294:PHE:CD1	1:I:1301:ARG:HB2	2.50	0.46
1:J:1640:GLY:HA2	1:J:1691:PHE:HE1	1.80	0.46
1:J:1844:ASP:HA	1:J:1845:PRO:HD3	1.80	0.46
1:J:1996:LEU:HD23	1:J:1996:LEU:HA	1.70	0.46
1:J:322:ASP:HB2	1:J:324:THR:HG22	1.97	0.46
1:J:772:ASN:HB3	1:J:775:ALA:HB3	1.97	0.46
1:A:1138:ALA:HB2	1:A:1761:SER:O	2.15	0.46
1:B:1261:ASN:N	1:B:1287:ARG:CZ	2.78	0.46
1:B:153:GLN:O	1:B:157:ILE:HG12	2.16	0.46
1:B:1819:ARG:O	1:B:1822:LEU:N	2.48	0.46
1:B:2445:CYS:HB3	1:B:2471:PRO:HA	1.96	0.46
1:B:276:LEU:HA	1:B:281:TYR:HD2	1.81	0.46
1:B:557:ILE:HG22	1:B:558:ASP:O	2.15	0.46
1:C:1092:LYS:HE3	1:C:1588:HIS:HD2	1.81	0.46
1:C:1110:PHE:HE1	1:C:1126:VAL:HG12	1.81	0.46
1:C:1358:ARG:NH2	1:C:1527:GLU:OE1	2.43	0.46
1:C:1568:GLU:HG3	1:C:1570:PHE:HE2	1.81	0.46
1:C:1086:GLU:HG3	1:C:1610:ALA:HB1	1.96	0.46
1:D:1604:ARG:HB2	1:D:1604:ARG:HE	1.54	0.46
1:D:195:SER:HB3	1:D:198:THR:HG21	1.97	0.46
1:D:332:ARG:HD3	1:D:334:TYR:CZ	2.51	0.46
1:E:600:LEU:HD23	1:E:605:LEU:HA	1.97	0.46
1:E:760:ALA:O	1:E:763:GLU:HB3	2.15	0.46
1:F:1122:TYR:HE2	1:F:1146:LYS:HG2	1.80	0.46
1:F:564:ARG:O	1:F:568:ILE:HG13	2.15	0.46
1:G:1321:ASP:HB3	1:G:1569:SER:HB3	1.98	0.46
1:H:1153:PRO:HB3	1:H:1171:TRP:CD1	2.51	0.46
1:H:1294:PHE:HA	1:H:1301:ARG:CB	2.46	0.46
1:H:523:LEU:HA	1:H:523:LEU:HD13	1.78	0.46
1:I:1147:ILE:HD11	1:I:1151:ILE:HD12	1.98	0.46
1:I:2285:ASN:ND2	1:I:2409:ILE:HG21	2.30	0.46
1:I:2291:PHE:CD2	1:I:2317:MET:HG3	2.51	0.46
1:I:2375:LEU:HD21	1:I:2387:LEU:HD21	1.98	0.46
1:J:1503:LYS:HB2	1:J:1552:ASP:HB2	1.98	0.46
1:J:1816:TRP:CZ2	1:J:1849:LYS:HD3	2.51	0.46

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:2341:TYR:CD1	1:J:2353:LEU:HD13	2.50	0.46
1:A:1126:VAL:HB	1:A:1141:TRP:CZ3	2.51	0.46
1:A:1641:PHE:CD1	1:A:1692:ILE:HB	2.51	0.46
1:A:1732:ILE:HG22	1:A:1733:VAL:N	2.31	0.46
1:B:2106:ASN:ND2	1:B:2189:ARG:HD2	2.31	0.46
1:C:1023:LYS:HG3	1:C:1024:TYR:CE1	2.51	0.46
1:C:118:TYR:HB2	1:C:1031:TRP:CZ3	2.50	0.46
1:C:1391:LEU:HD11	1:C:1406:PRO:HD2	1.97	0.46
1:C:26:HIS:HE1	1:C:1917:ASN:OD1	1.99	0.46
1:C:366:SER:N	1:C:413:VAL:O	2.47	0.46
1:C:608:LEU:HG	1:C:648:VAL:HG13	1.97	0.46
1:D:1495:PRO:HB2	1:D:1514:ASP:HB3	1.98	0.46
1:D:102:GLN:HE22	1:D:1901:THR:H	1.63	0.46
1:D:260:ALA:HB1	1:D:434:TYR:HB2	1.97	0.46
1:E:1147:ILE:HD11	1:E:1151:ILE:HD12	1.98	0.46
1:E:1295:ASP:N	1:E:1301:ARG:HG3	2.30	0.46
1:D:93:ASN:HD22	1:E:1452:ILE:HD13	1.81	0.46
1:E:1505:GLY:HA2	1:E:1542:LEU:HA	1.98	0.46
1:E:192:PHE:O	1:E:198:THR:HG23	2.16	0.46
1:A:2151:GLY:HA2	1:E:2143:ASN:C	2.36	0.46
1:F:2393:PHE:HE1	1:F:2482:LEU:HB2	1.81	0.46
1:G:1239:TYR:HD2	1:G:1242:GLU:H	1.63	0.46
1:G:314:ILE:HD13	1:G:329:ARG:HG3	1.98	0.46
1:H:1650:TYR:HE1	1:H:1659:ARG:NH2	2.12	0.46
1:H:1704:HIS:CD2	1:H:1727:ARG:H	2.34	0.46
1:H:1057:MET:CE	1:H:1774:TYR:HB3	2.46	0.46
1:G:2128:VAL:HG22	1:H:2165:MET:HB3	1.97	0.46
1:H:283:LYS:NZ	1:H:290:ASP:HB2	2.31	0.46
1:H:90:ILE:HD11	1:I:1453:GLY:H	1.81	0.46
1:I:179:LEU:HB3	1:I:184:LYS:HG2	1.98	0.46
1:I:2099:TYR:CD2	1:I:2195:GLN:HB3	2.50	0.46
1:I:2019:PHE:CE1	1:I:2280:TYR:HB2	2.51	0.46
1:I:2364:GLY:HA2	1:I:2377:PHE:HE2	1.81	0.46
1:I:283:LYS:HG3	1:I:288:LEU:O	2.15	0.46
1:I:586:SER:O	1:I:590:ILE:HG13	2.16	0.46
1:I:702:LEU:O	1:I:702:LEU:HD23	2.16	0.46
1:J:296:PHE:O	1:J:312:GLN:NE2	2.49	0.46
1:A:1254:ASP:C	1:A:1256:LEU:N	2.67	0.46
1:A:334:TYR:OH	1:A:342:ASP:HA	2.16	0.46
1:A:372:LEU:HB2	1:A:378:LEU:HD21	1.98	0.46
1:B:1641:PHE:CD1	1:B:1692:ILE:HB	2.50	0.46

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2042:ASN:O	1:B:2045:GLU:HG2	2.16	0.46
1:B:336:THR:HA	1:B:337:ASN:HA	1.72	0.46
1:C:1409:GLN:OE1	1:C:1421:ARG:NH1	2.48	0.46
1:C:2273:CYS:HB3	1:C:2292:ILE:CD1	2.45	0.46
1:C:2331:VAL:HG23	1:D:2451:SER:OG	2.15	0.46
1:C:481:THR:HG22	1:C:485:MET:HE1	1.96	0.46
1:D:1018:PHE:HA	1:D:1021:TRP:HB2	1.98	0.46
1:D:144:ASP:HB2	1:D:168:LEU:HD21	1.97	0.46
1:D:1800:TRP:HB2	1:D:1816:TRP:CD1	2.50	0.46
1:C:1898:LEU:HD12	1:D:300:ALA:H	1.81	0.46
1:D:28:SER:OG	1:D:31:GLU:HG3	2.16	0.46
1:E:1244:THR:HG21	1:E:1268:TYR:CD2	2.50	0.46
1:E:1161:VAL:HG11	1:E:1245:LEU:HD11	1.98	0.46
1:E:150:LEU:HB2	1:E:1905:PRO:HD2	1.98	0.46
1:E:2348:ASN:O	1:E:2350:PRO:HD3	2.16	0.46
1:E:2410:ARG:HA	1:E:2514:THR:O	2.15	0.46
1:E:378:LEU:HD13	1:E:395:ILE:HD13	1.97	0.46
1:F:1103:ASN:HB3	1:F:1598:TRP:CD1	2.50	0.46
1:F:962:LYS:NZ	1:F:1398:SER:O	2.48	0.46
1:F:1800:TRP:HB2	1:F:1816:TRP:CD1	2.51	0.46
1:F:2012:SER:HA	1:F:2274:LEU:HD23	1.98	0.46
1:G:1355:PRO:HD2	1:G:1532:PHE:HB2	1.97	0.46
1:G:2383:THR:OG1	1:G:2386:SER:HB3	2.16	0.46
1:G:662:THR:N	1:G:753:VAL:HG11	2.21	0.46
1:G:832:ALA:C	1:G:834:GLN:H	2.18	0.46
1:H:1211:THR:HG22	1:H:1212:PRO:HD2	1.98	0.46
1:H:1371:GLN:O	1:H:1375:MET:HG3	2.16	0.46
1:H:2099:TYR:CD2	1:H:2195:GLN:HB3	2.50	0.46
1:H:2088:SER:HB3	1:H:2206:ILE:HD13	1.98	0.46
1:I:2291:PHE:CG	1:I:2317:MET:HG3	2.51	0.46
1:J:1704:HIS:CE1	1:J:1727:ARG:HB3	2.51	0.46
1:J:1973:ASN:O	1:J:1981:LEU:HD13	2.16	0.46
1:F:2165:MET:HB3	1:J:2128:VAL:HG22	1.98	0.46
1:J:2291:PHE:CE2	1:J:2317:MET:HA	2.51	0.46
1:J:92:TYR:HA	1:J:1926:LEU:HD13	1.97	0.46
1:A:814:LEU:HD13	1:A:821:VAL:HG11	1.98	0.46
1:B:1660:TRP:NE1	1:B:1680:GLN:HB3	2.31	0.46
1:C:1121:TYR:O	1:C:1147:ILE:HG12	2.15	0.46
1:C:1226:LEU:HD12	1:C:1228:LYS:HE3	1.98	0.46
1:C:1289:ASN:HB2	1:C:1306:TYR:CE1	2.51	0.46
1:A:1150:PRO:HG3	1:C:2158:ALA:HB2	1.98	0.46

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2432:ILE:O	1:C:2484:LEU:HA	2.15	0.46
1:C:565:LEU:HB2	1:C:602:ILE:HD13	1.96	0.46
1:C:2059:GLN:HB2	1:D:2233:GLN:OE1	2.16	0.46
1:D:2294:PRO:HA	1:D:2295:GLY:HA2	1.67	0.46
1:D:534:GLU:O	1:D:580:ASN:HB2	2.16	0.46
1:C:1972:HIS:HA	1:D:978:SER:OG	2.16	0.46
1:D:1178:THR:HB	1:E:2146:GLY:H	1.81	0.46
1:G:962:LYS:NZ	1:G:1398:SER:OG	2.44	0.46
1:G:1646:VAL:HB	1:G:1745:GLU:HB3	1.96	0.46
1:G:1890:LEU:HB3	1:G:1960:TRP:CZ2	2.51	0.46
1:G:2118:ARG:HH11	1:G:2177:ASP:HB3	1.81	0.46
1:G:836:ALA:HB2	1:G:846:LEU:HD22	1.98	0.46
1:H:1121:TYR:HB2	1:H:1147:ILE:HD11	1.97	0.46
1:H:1664:TYR:CE2	1:H:1675:ILE:HB	2.51	0.46
1:H:593:LEU:HA	1:H:596:ASP:HB2	1.98	0.46
1:I:1426:ARG:NH1	1:I:1428:THR:O	2.48	0.46
1:I:2145:PHE:HB3	1:I:2146:GLY:HA2	1.97	0.46
1:I:2413:LYS:O	1:I:2473:GLU:HG2	2.16	0.46
1:I:2420:PRO:HD2	1:I:2506:ASP:O	2.16	0.46
1:I:250:ILE:HG23	1:I:267:ASN:HD21	1.80	0.46
1:J:905:SER:HB2	1:J:910:PRO:HD3	1.98	0.46
1:A:1139:ASN:HD21	1:A:1829:SER:H	1.63	0.46
1:A:1876:LEU:HA	1:A:1876:LEU:HD23	1.48	0.46
1:A:2194:ILE:HD12	1:E:2098:SER:HB3	1.98	0.46
1:A:36:VAL:O	1:A:36:VAL:HG12	2.15	0.46
1:A:778:LEU:HD21	1:A:785:MET:SD	2.56	0.46
1:B:1130:LYS:HB2	1:B:1140:ALA:HB2	1.97	0.46
1:B:1473:MET:HE2	1:B:1483:VAL:CG2	2.45	0.46
1:B:1559:ALA:HB2	1:B:1565:LEU:HD21	1.98	0.46
1:B:1595:TYR:CD2	1:B:1637:LEU:HB2	2.51	0.46
1:B:441:ASN:OD1	1:B:445:ARG:NH1	2.49	0.46
1:C:2106:ASN:HB2	1:C:2189:ARG:NH1	2.31	0.46
1:C:655:THR:HG23	1:C:796:HIS:O	2.16	0.46
1:D:1660:TRP:CE2	1:D:1680:GLN:HB3	2.50	0.46
1:D:1821:LEU:CD2	1:D:1845:PRO:HB3	2.46	0.46
1:D:784:GLU:HG3	1:D:784:GLU:H	1.24	0.46
1:A:1002:GLU:HG2	1:E:1802:PRO:HB2	1.98	0.46
1:F:1268:TYR:CE1	1:F:1278:MET:HG3	2.50	0.46
1:F:2106:ASN:HB2	1:F:2189:ARG:HH11	1.81	0.46
1:F:2420:PRO:HD2	1:F:2506:ASP:O	2.16	0.46
1:G:1114:SER:OG	1:G:1120:GLU:HB2	2.15	0.46

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:464:VAL:HG22	1:G:477:LYS:HD2	1.98	0.46
1:H:1289:ASN:HB2	1:H:1306:TYR:HE2	1.81	0.46
1:H:1863:ARG:HD3	1:H:1882:TRP:CZ3	2.51	0.46
1:H:192:PHE:CZ	1:H:194:PRO:HG2	2.50	0.46
1:I:1108:THR:OG1	1:I:1128:HIS:NE2	2.33	0.46
1:I:1505:GLY:H	1:I:1542:LEU:CB	2.29	0.46
1:I:1050:ARG:HG3	1:I:1838:ASP:CG	2.36	0.46
1:I:745:ALA:HB3	1:I:749:GLN:OE1	2.16	0.46
1:J:340:GLN:HA	1:J:360:LYS:HB3	1.97	0.46
1:J:36:VAL:CG1	1:J:40:LEU:HB2	2.45	0.46
1:J:709:HIS:HD1	1:J:777:ARG:HH22	1.64	0.46
1:A:1097:TYR:HB2	1:A:1160:PRO:O	2.15	0.45
1:A:1113:LEU:HD13	1:A:1121:TYR:CE2	2.51	0.45
1:A:130:HIS:ND1	1:A:996:TYR:OH	2.47	0.45
1:A:1465:ASP:O	1:A:1468:LYS:HB3	2.16	0.45
1:A:1534:ALA:O	1:A:1535:LEU:HD23	2.16	0.45
1:A:150:LEU:HB2	1:A:1905:PRO:HD2	1.98	0.45
1:B:138:LEU:HD12	1:B:138:LEU:H	1.81	0.45
1:B:1384:LYS:O	1:B:1410:TYR:HB2	2.16	0.45
1:B:1473:MET:HE2	1:B:1483:VAL:HG21	1.98	0.45
1:B:2095:ARG:NH2	1:B:2202:GLU:OE2	2.45	0.45
1:B:2258:LEU:HA	1:B:2261:ILE:CG2	2.46	0.45
1:B:2412:ILE:HD12	1:B:2475:ILE:HB	1.98	0.45
1:B:950:TYR:O	1:B:955:ALA:HB2	2.16	0.45
1:C:1284:ASN:HA	1:C:1287:ARG:HD2	1.98	0.45
1:C:1295:ASP:HB3	1:C:1301:ARG:HE	1.81	0.45
1:C:1386:ILE:HB	1:C:1408:TYR:HB3	1.97	0.45
1:C:306:GLN:OE1	1:C:315:THR:HG22	2.16	0.45
1:C:71:ASN:HA	1:C:72:PRO:HD3	1.81	0.45
1:D:1668:VAL:HG13	1:D:1669:VAL:H	1.82	0.45
1:D:609:LEU:HD21	1:D:634:LEU:HD11	1.98	0.45
1:D:612:VAL:N	1:D:613:GLY:HA2	2.31	0.45
1:E:1426:ARG:NH2	1:E:1452:ILE:HA	2.30	0.45
1:E:1658:GLU:HB3	1:E:1712:LYS:HB3	1.98	0.45
1:E:1640:GLY:HA2	1:E:1691:PHE:HE1	1.80	0.45
1:E:61:LEU:HG	1:E:1832:LEU:HD11	1.98	0.45
1:E:102:GLN:OE1	1:E:1901:THR:HG23	2.16	0.45
1:E:1959:TYR:HA	1:E:1962:THR:HG22	1.99	0.45
1:F:488:TYR:CZ	1:F:597:ILE:HD12	2.51	0.45
1:F:771:ILE:HD11	1:F:804:LEU:HB3	1.99	0.45
1:F:900:LEU:HD13	1:F:915:TRP:CZ3	2.51	0.45

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1092:LYS:O	1:G:1112:GLY:HA2	2.15	0.45
1:F:2128:VAL:HG22	1:G:2165:MET:HB3	1.98	0.45
1:G:2281:ARG:HG2	1:G:2289:ALA:HB3	1.98	0.45
1:G:725:MET:HG2	1:G:755:TYR:HB2	1.97	0.45
1:H:1352:TYR:HA	1:H:1535:LEU:O	2.15	0.45
1:I:1438:ILE:HB	1:I:1441:ALA:HB3	1.97	0.45
1:I:153:GLN:O	1:I:157:ILE:HG12	2.15	0.45
1:I:771:ILE:HG22	1:I:775:ALA:HB3	1.98	0.45
1:J:1248:MET:HE1	1:J:1286:TYR:HB2	1.98	0.45
1:J:2025:ASN:OD1	1:J:2272:ARG:HD2	2.16	0.45
1:J:2145:PHE:HB3	1:J:2146:GLY:HA2	1.98	0.45
1:J:772:ASN:HD22	1:J:822:LEU:HD12	1.79	0.45
1:A:26:HIS:HE1	1:A:1917:ASN:OD1	1.99	0.45
1:A:141:ARG:NH1	1:A:970:TYR:O	2.49	0.45
1:A:972:LEU:HA	1:A:972:LEU:HD23	1.74	0.45
1:B:1139:ASN:HD21	1:B:1829:SER:H	1.64	0.45
1:B:594:LEU:O	1:B:598:HIS:ND1	2.41	0.45
1:B:614:GLU:HG3	1:B:630:LEU:HG	1.99	0.45
1:C:1061:LEU:HD22	1:C:1778:LEU:HD11	1.98	0.45
1:C:192:PHE:CE2	1:C:194:PRO:HG2	2.51	0.45
1:C:206:ASN:OD1	1:C:934:LEU:HD11	2.16	0.45
1:C:2111:GLU:OE1	1:D:2187:ARG:NH2	2.49	0.45
1:C:366:SER:OG	1:C:415:PRO:HD3	2.16	0.45
1:D:1122:TYR:HD2	1:D:1146:LYS:HA	1.80	0.45
1:D:2095:ARG:HD3	1:E:2198:ASN:ND2	2.30	0.45
1:D:571:HIS:H	1:D:618:ASN:HD22	1.65	0.45
1:D:965:ASP:OD2	1:D:976:GLN:NE2	2.50	0.45
1:E:1394:ASN:HB3	1:E:1396:ASN:O	2.16	0.45
1:E:1683:ASP:HA	1:E:1684:THR:HA	1.70	0.45
1:F:1117:ASP:OD1	1:F:1118:ALA:N	2.48	0.45
1:F:1433:LYS:HB2	1:F:1447:ASN:O	2.17	0.45
1:F:2247:ASN:HB2	1:F:2250:LEU:H	1.82	0.45
1:G:1093:VAL:HG22	1:G:1144:TRP:HH2	1.81	0.45
1:G:248:PHE:CE1	1:G:902:TYR:HB3	2.51	0.45
1:G:365:ALA:O	1:G:384:ALA:HB2	2.16	0.45
1:G:498:LEU:HD21	1:G:597:ILE:HG21	1.98	0.45
1:H:1326:ASP:HB2	1:H:1563:ARG:HB2	1.98	0.45
1:H:417:GLY:N	1:H:418:SER:HA	2.31	0.45
1:I:1179:LYS:HB3	1:I:1191:GLU:HG2	1.99	0.45
1:I:1375:MET:HB3	1:I:1385:PHE:HZ	1.81	0.45
1:I:2042:ASN:ND2	1:I:2046:ARG:HD2	2.30	0.45

*Continued on next page...*



*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:2244:LYS:HE2	1:I:2246:SER:HB3	1.98	0.45
1:J:2294:PRO:HA	1:J:2295:GLY:HA2	1.63	0.45
1:J:689:LEU:HD13	1:J:713:LEU:HD21	1.98	0.45
1:A:1065:SER:HA	1:A:1782:ARG:HE	1.82	0.45
1:A:1955:VAL:O	1:A:1958:ASN:HB3	2.17	0.45
1:A:2018:ARG:NH1	1:A:2473:GLU:OE2	2.48	0.45
1:A:336:THR:HA	1:A:337:ASN:HA	1.76	0.45
1:B:1668:VAL:HG13	1:B:1669:VAL:H	1.81	0.45
1:B:1921:SER:O	1:B:1924:VAL:HG12	2.16	0.45
1:C:450:THR:HG21	1:C:478:VAL:HG11	1.99	0.45
1:D:2349:GLY:O	1:D:2369:GLY:HA2	2.16	0.45
1:E:1410:TYR:CZ	1:E:1464:PRO:HB3	2.51	0.45
1:E:1086:GLU:HG3	1:E:1610:ALA:HB1	1.98	0.45
1:E:41:SER:HB3	1:E:44:GLU:OE1	2.16	0.45
1:E:598:HIS:HB2	1:E:600:LEU:HD13	1.98	0.45
1:E:972:LEU:HA	1:E:972:LEU:HD23	1.68	0.45
1:F:1066:GLN:HG2	1:H:2178:LYS:HZ3	1.79	0.45
1:F:1357:LEU:HB3	1:F:1530:TYR:HB2	1.97	0.45
1:F:142:ARG:NH1	1:F:144:ASP:OD2	2.47	0.45
1:F:2145:PHE:HA	1:F:2145:PHE:HD1	1.64	0.45
1:F:417:GLY:N	1:F:418:SER:HA	2.31	0.45
1:F:79:HIS:CD2	1:F:1815:GLN:HG2	2.51	0.45
1:G:1670:ASP:OD1	1:G:1672:ASN:HB2	2.17	0.45
1:G:1915:THR:CG2	1:G:1943:THR:HB	2.44	0.45
1:G:432:ASN:O	1:G:436:PHE:N	2.44	0.45
1:H:2034:THR:HG22	1:H:2307:GLY:C	2.36	0.45
1:I:1289:ASN:HB2	1:I:1306:TYR:CE2	2.51	0.45
1:I:1561:ASP:OD2	1:I:1563:ARG:NH2	2.48	0.45
1:I:1607:THR:HG22	1:I:1764:ASN:HD22	1.81	0.45
1:I:161:THR:HG22	1:I:162:LEU:H	1.81	0.45
1:I:1868:TYR:HA	1:I:1876:LEU:HD23	1.98	0.45
1:I:2273:CYS:HB3	1:I:2292:ILE:HD13	1.97	0.45
1:J:1280:PRO:O	1:J:1284:ASN:ND2	2.46	0.45
1:J:1388:TYR:CE2	1:J:1486:PRO:HB3	2.51	0.45
1:J:1602:ARG:HD2	1:J:1693:PRO:HB3	1.98	0.45
1:J:274:ALA:O	1:J:278:MET:HG3	2.16	0.45
1:J:745:ALA:HB3	1:J:749:GLN:OE1	2.16	0.45
1:A:1040:TYR:CD2	1:A:1953:ASN:HB3	2.51	0.45
1:A:1111:ILE:HD11	1:A:1160:PRO:HB3	1.98	0.45
1:A:1604:ARG:HE	1:A:1637:LEU:HD21	1.81	0.45
1:A:1711:PHE:HE1	1:A:1714:SER:HB3	1.80	0.45

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2127:ALA:HB1	1:B:2165:MET:HE1	1.97	0.45
1:A:2186:ARG:NH2	1:D:1786:GLU:OE1	2.50	0.45
1:A:733:TRP:CZ3	1:A:738:TYR:HB2	2.51	0.45
1:A:832:ALA:HB2	1:A:868:PHE:CZ	2.50	0.45
1:B:1121:TYR:O	1:B:1147:ILE:HG12	2.16	0.45
1:B:124:ARG:HB2	1:B:1911:ALA:HB1	1.97	0.45
1:B:1627:MET:HG2	1:B:1630:GLN:OE1	2.15	0.45
1:B:1951:GLN:HG2	1:B:1952:ILE:O	2.16	0.45
1:B:1976:ILE:HA	1:B:1976:ILE:HD13	1.87	0.45
1:C:1257:ASP:CG	1:C:1258:SER:H	2.17	0.45
1:C:1280:PRO:O	1:C:1284:ASN:ND2	2.49	0.45
1:C:1262:ALA:H	1:C:1287:ARG:NH2	2.13	0.45
1:C:2158:ALA:O	1:C:2161:THR:HB	2.16	0.45
1:C:308:TYR:HE2	1:C:344:GLU:HB3	1.80	0.45
1:C:2143:ASN:HB3	1:D:2151:GLY:HA2	1.99	0.45
1:D:2203:LEU:O	1:D:2207:ASP:HB2	2.16	0.45
1:E:1139:ASN:HD21	1:E:1829:SER:HB2	1.80	0.45
1:E:2187:ARG:HA	1:E:2190:GLN:OE1	2.16	0.45
1:E:398:ASN:O	1:E:402:ILE:HG12	2.17	0.45
1:F:1200:LEU:HD23	1:F:1201:ALA:N	2.31	0.45
1:F:1518:SER:HB3	1:F:1533:ASN:HD21	1.81	0.45
1:F:461:VAL:HG22	1:F:474:VAL:HG11	1.98	0.45
1:F:895:SER:HA	1:F:898:VAL:HG12	1.98	0.45
1:H:1650:TYR:O	1:H:1651:ASN:CB	2.63	0.45
1:G:1178:THR:O	1:H:2146:GLY:HA3	2.16	0.45
1:H:2247:ASN:HB2	1:H:2250:LEU:H	1.81	0.45
1:H:2338:ALA:HB2	1:H:2506:ASP:HB3	1.98	0.45
1:H:974:ASP:HB3	1:H:977:VAL:CG2	2.46	0.45
1:I:1385:PHE:CB	1:I:1409:GLN:HA	2.46	0.45
1:I:1886:ALA:HB1	1:I:1963:LEU:HD11	1.97	0.45
1:I:2042:ASN:O	1:I:2045:GLU:HG2	2.16	0.45
1:I:2064:ILE:HG21	1:I:2231:GLN:HB2	1.98	0.45
1:I:482:LYS:HD2	1:I:485:MET:HE3	1.99	0.45
1:I:540:SER:HB2	1:I:563:PHE:CG	2.52	0.45
1:F:1205:TYR:CD1	1:J:1082:LEU:HB3	2.50	0.45
1:J:1416:GLY:HA2	1:J:1417:LEU:HA	1.42	0.45
1:J:65:ARG:NH1	1:J:88:GLU:OE2	2.49	0.45
1:A:118:TYR:HB2	1:A:1031:TRP:CZ3	2.52	0.45
1:A:1170:LEU:HD23	1:A:1200:LEU:HA	1.98	0.45
1:A:1408:TYR:CD2	1:A:1467:LEU:HD12	2.51	0.45
1:A:1625:LEU:HD12	1:A:1798:TYR:HB3	1.97	0.45

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1009:ASN:O	1:B:1013:ILE:HG13	2.16	0.45
1:B:104:VAL:HG12	1:B:108:THR:HG21	1.95	0.45
1:B:1664:TYR:CE2	1:B:1675:ILE:HB	2.52	0.45
1:B:2077:GLU:OE1	1:C:2216:ARG:NH1	2.48	0.45
1:B:659:TYR:O	1:B:754:GLN:HG2	2.17	0.45
1:B:1752:ASN:HB3	1:C:1338:PRO:HB2	1.98	0.45
1:C:1338:PRO:HD2	1:C:1354:SER:O	2.16	0.45
1:D:1423:LEU:HD23	1:D:1456:TYR:HB3	1.97	0.45
1:D:1534:ALA:O	1:D:1535:LEU:HD23	2.16	0.45
1:D:2099:TYR:CE2	1:D:2195:GLN:HG2	2.52	0.45
1:D:2448:LEU:HG	1:D:2458:GLY:HA3	1.97	0.45
1:E:1104:ASP:HA	1:E:1598:TRP:CZ2	2.51	0.45
1:E:1660:TRP:CE2	1:E:1680:GLN:HB3	2.51	0.45
1:E:2448:LEU:HG	1:E:2458:GLY:HA3	1.99	0.45
1:F:1165:SER:HB2	1:J:1615:ALA:HA	1.98	0.45
1:F:1463:LYS:HA	1:F:1464:PRO:HD2	1.75	0.45
1:F:2448:LEU:HB2	1:F:2472:PHE:CE1	2.45	0.45
1:F:371:LYS:HA	1:F:377:GLU:HA	1.99	0.45
1:F:594:LEU:HD22	1:F:634:LEU:HD12	1.98	0.45
1:F:969:GLN:OE1	1:F:999:ARG:NE	2.50	0.45
1:G:1283:SER:O	1:G:1287:ARG:HB3	2.16	0.45
1:G:1706:LYS:NZ	1:G:1718:GLY:HA2	2.32	0.45
1:G:2412:ILE:HD12	1:G:2475:ILE:HB	1.99	0.45
1:H:654:MET:HE3	1:H:765:VAL:HG22	1.98	0.45
1:J:1057:MET:HB2	1:J:1770:GLU:OE2	2.17	0.45
1:J:163:SER:O	1:J:167:GLU:HG3	2.16	0.45
1:A:1054:THR:HG23	1:A:1770:GLU:OE1	2.17	0.45
1:A:1559:ALA:HB2	1:A:1565:LEU:HD21	1.98	0.45
1:A:797:ASP:H	1:A:800:SER:HB2	1.81	0.45
1:B:2033:LEU:CD1	1:B:2266:TYR:HA	2.46	0.45
1:C:1973:ASN:O	1:C:1981:LEU:HB2	2.16	0.45
1:C:2398:ILE:HB	1:C:2477:ILE:HG21	1.98	0.45
1:C:568:ILE:HD13	1:C:605:LEU:HD12	1.98	0.45
1:D:1312:ILE:HD11	1:D:1574:VAL:HG22	1.99	0.45
1:D:1394:ASN:HD22	1:D:1480:ALA:HB1	1.81	0.45
1:D:1658:GLU:OE1	1:D:1712:LYS:HE3	2.16	0.45
1:D:1797:LYS:HG3	1:D:1801:SER:HB3	1.99	0.45
1:D:192:PHE:O	1:D:198:THR:HG23	2.17	0.45
1:D:2106:ASN:HB2	1:D:2189:ARG:HH11	1.80	0.45
1:D:511:GLN:HB3	1:D:517:ARG:HH21	1.81	0.45
1:D:101:SER:HA	1:E:1429:THR:CG2	2.45	0.45

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1491:THR:O	1:E:1493:ILE:HG13	2.16	0.45
1:E:1698:PRO:HB3	1:E:1704:HIS:CD2	2.52	0.45
1:E:341:MET:SD	1:E:343:VAL:HG23	2.57	0.45
1:F:1453:GLY:HA3	1:J:86:ASN:HB3	1.98	0.45
1:F:2065:LEU:HD23	1:F:2065:LEU:HA	1.81	0.45
1:F:2151:GLY:HA2	1:J:2143:ASN:C	2.36	0.45
1:F:341:MET:SD	1:F:342:ASP:N	2.90	0.45
1:F:589:TYR:CE2	1:F:593:LEU:HD11	2.51	0.45
1:G:161:THR:C	1:G:163:SER:H	2.20	0.45
1:G:1630:GLN:HG2	1:G:1819:ARG:CB	2.42	0.45
1:G:1704:HIS:CD2	1:G:1727:ARG:H	2.34	0.45
1:G:2046:ARG:HB3	1:G:2251:TYR:HE2	1.82	0.45
1:G:986:ILE:O	1:G:990:ILE:HG13	2.16	0.45
1:H:2055:LEU:O	1:H:2058:ASN:HB2	2.16	0.45
1:G:2059:GLN:HB2	1:H:2233:GLN:NE2	2.31	0.45
1:H:2244:LYS:HE2	1:H:2246:SER:HB3	1.99	0.45
1:H:354:ARG:NH1	1:H:356:ASP:OD1	2.50	0.45
1:H:534:GLU:O	1:H:580:ASN:HB2	2.17	0.45
1:H:1086:GLU:CD	1:I:1166:ARG:HH22	2.19	0.45
1:I:1411:SER:HA	1:I:1415:SER:HB2	1.97	0.45
1:I:1517:VAL:CG1	1:I:1520:GLN:HG3	2.46	0.45
1:I:2068:LEU:CD1	1:I:2227:LEU:HB3	2.45	0.45
1:I:2025:ASN:ND2	1:I:2272:ARG:HD2	2.31	0.45
1:I:232:HIS:HB2	1:I:903:ILE:HG12	1.98	0.45
1:I:2361:VAL:HG22	1:I:2501:LEU:HD12	1.98	0.45
1:I:308:TYR:CD1	1:I:313:LEU:HB2	2.52	0.45
1:F:2145:PHE:HD2	1:J:1177:ILE:HG12	1.81	0.45
1:A:1310:TYR:CD2	1:A:1576:LEU:HD13	2.52	0.45
1:A:2273:CYS:HB3	1:A:2292:ILE:CD1	2.45	0.45
1:A:2335:VAL:HG21	1:A:2396:LEU:HD13	1.99	0.45
1:B:185:VAL:O	1:B:189:LEU:HB2	2.17	0.45
1:B:189:LEU:HA	1:B:189:LEU:HD12	1.76	0.45
1:B:1890:LEU:HB3	1:B:1960:TRP:CH2	2.52	0.45
1:B:714:TRP:CD1	1:B:794:PRO:HG2	2.52	0.45
1:B:947:SER:CB	1:B:975:ASN:HD22	2.30	0.45
1:B:1810:GLN:NE2	1:C:1321:ASP:HA	2.31	0.45
1:C:109:VAL:HG21	1:C:152:GLN:HA	1.99	0.45
1:C:2089:LYS:NZ	1:C:2207:ASP:OD2	2.31	0.45
1:D:372:LEU:HD23	1:D:373:ASN:OD1	2.16	0.45
1:E:1516:ASP:HB2	1:E:1532:PHE:HD2	1.81	0.45
1:E:1819:ARG:O	1:E:1822:LEU:N	2.49	0.45

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:2161:THR:O	1:E:2165:MET:HG2	2.17	0.45
1:F:1294:PHE:HA	1:F:1301:ARG:CB	2.46	0.45
1:F:1699:LEU:HD12	1:F:1700:ASN:OD1	2.16	0.45
1:F:192:PHE:O	1:F:198:THR:HG23	2.17	0.45
1:F:2106:ASN:HB2	1:F:2189:ARG:HH12	1.81	0.45
1:F:23:ASP:O	1:F:26:HIS:ND1	2.48	0.45
1:G:557:ILE:HD11	1:G:592:LYS:HE3	1.98	0.45
1:G:557:ILE:HG22	1:G:558:ASP:O	2.16	0.45
1:H:1244:THR:HG21	1:H:1268:TYR:CD2	2.51	0.45
1:H:1622:ASP:N	1:H:1622:ASP:OD2	2.50	0.45
1:H:1640:GLY:HA2	1:H:1691:PHE:HE1	1.81	0.45
1:H:1841:ALA:HA	1:H:1847:HIS:HB2	1.98	0.45
1:H:123:TYR:CG	1:H:1907:LEU:HD21	2.52	0.45
1:H:2410:ARG:O	1:H:2476:ALA:HA	2.16	0.45
1:I:1245:LEU:HG	1:I:1269:ILE:HB	1.98	0.45
1:I:1498:VAL:HG21	1:I:1530:TYR:CE2	2.52	0.45
1:I:2095:ARG:HD3	1:J:2198:ASN:HD21	1.80	0.45
1:I:380:ARG:NH1	1:I:382:GLU:OE1	2.48	0.45
1:I:783:PRO:HB3	1:I:794:PRO:HB3	1.97	0.45
1:J:1633:GLN:HB3	1:J:1755:SER:HB2	1.98	0.45
1:J:1850:VAL:O	1:J:1853:PHE:HB3	2.17	0.45
1:J:75:GLN:NE2	1:J:1895:TYR:HE2	2.12	0.45
1:J:2433:LEU:O	1:J:2447:ALA:HA	2.16	0.45
1:J:402:ILE:HG23	1:J:428:VAL:CG1	2.44	0.45
1:A:1248:MET:CE	1:A:1286:TYR:HB2	2.46	0.45
1:A:132:SER:HA	1:A:137:TYR:CG	2.52	0.45
1:A:1641:PHE:CE2	1:A:1733:VAL:HG11	2.52	0.45
1:A:2108:ASN:HB2	1:B:2187:ARG:NH2	2.31	0.45
1:A:431:TYR:OH	1:A:468:LEU:HG	2.16	0.45
1:B:1390:SER:HB3	1:B:1484:SER:HB2	1.98	0.45
1:C:1374:LEU:HD21	1:C:1425:HIS:HB2	1.98	0.45
1:C:1463:LYS:HG3	1:C:1466:ASP:HB2	1.98	0.45
1:C:248:PHE:CE1	1:C:902:TYR:HB3	2.52	0.45
1:C:353:TYR:CD2	1:C:397:LEU:HD12	2.51	0.45
1:D:1475:ASP:HB2	1:D:1479:THR:HB	1.97	0.45
1:D:2393:PHE:CE1	1:D:2482:LEU:HB2	2.51	0.45
1:D:614:GLU:HG3	1:D:630:LEU:HG	1.99	0.45
1:E:1424:PHE:CE2	1:E:1434:VAL:HG21	2.52	0.45
1:E:1704:HIS:CE1	1:E:1727:ARG:H	2.35	0.45
1:E:2237:GLN:O	1:E:2240:PHE:HB3	2.17	0.45
1:E:725:MET:HG2	1:E:755:TYR:HB2	1.97	0.45

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1876:LEU:HD23	1:F:1876:LEU:HA	1.85	0.45
1:F:2106:ASN:HD21	1:F:2189:ARG:HB2	1.82	0.45
1:G:1498:VAL:HG21	1:G:1530:TYR:CE2	2.48	0.45
1:G:363:TYR:CE1	1:G:414:LEU:HD23	2.51	0.45
1:G:481:THR:O	1:G:485:MET:HG2	2.17	0.45
1:H:1797:LYS:HE3	1:H:1801:SER:HB2	1.99	0.45
1:H:568:ILE:HD13	1:H:605:LEU:HD12	1.99	0.45
1:H:750:GLU:O	1:H:754:GLN:HG3	2.16	0.45
1:I:118:TYR:HB2	1:I:1031:TRP:CE3	2.52	0.45
1:I:1168:TYR:HD2	1:I:1200:LEU:HD21	1.81	0.45
1:I:1560:GLU:HA	1:I:1560:GLU:OE2	2.16	0.45
1:H:1178:THR:O	1:I:2146:GLY:HA3	2.17	0.45
1:I:2286:ASP:OD2	1:I:2289:ALA:HB2	2.17	0.45
1:I:446:LEU:CD1	1:I:457:LEU:HD13	2.46	0.45
1:I:519:PHE:HD2	1:I:550:ILE:HG22	1.82	0.45
1:J:1061:LEU:HD22	1:J:1778:LEU:HD11	1.99	0.45
1:J:1890:LEU:HB3	1:J:1960:TRP:CH2	2.52	0.45
1:A:1251:ASN:ND2	1:A:1262:ALA:HB1	2.31	0.45
1:A:1641:PHE:CE1	1:A:1692:ILE:HD12	2.52	0.45
1:A:2030:VAL:HG11	1:A:2311:MET:HB2	1.98	0.45
1:B:1294:PHE:HA	1:B:1301:ARG:HB2	1.98	0.45
1:B:1889:LEU:HD23	1:B:1889:LEU:HA	1.82	0.45
1:B:2036:PHE:HB3	1:B:2262:TYR:HD1	1.82	0.45
1:B:2360:LEU:HD22	1:B:2375:LEU:HD22	1.99	0.45
1:C:1122:TYR:CE2	1:C:1146:LYS:HG2	2.52	0.45
1:C:1327:TYR:HE2	1:C:1487:VAL:HG11	1.81	0.45
1:C:2258:LEU:O	1:C:2258:LEU:HD23	2.17	0.45
1:D:1560:GLU:OE2	1:D:1560:GLU:HA	2.17	0.45
1:D:520:ASN:ND2	1:D:528:TYR:H	2.15	0.45
1:E:1100:ASN:HB2	1:E:1106:GLY:HA3	1.98	0.45
1:A:2382:ASP:HB3	1:E:2403:PRO:HB2	1.99	0.45
1:E:260:ALA:HB1	1:E:434:TYR:HB2	1.98	0.45
1:E:892:GLN:H	1:E:892:GLN:HG3	1.49	0.45
1:F:1291:TYR:C	1:F:1293:GLN:H	2.20	0.45
1:F:1386:ILE:HD12	1:F:1408:TYR:HD1	1.81	0.45
1:F:79:HIS:CE1	1:F:1802:PRO:HA	2.52	0.45
1:F:1082:LEU:HB3	1:G:1205:TYR:CD1	2.51	0.45
1:G:1383:ASP:N	1:G:1491:THR:OG1	2.50	0.45
1:G:2187:ARG:HD3	1:G:2190:GLN:OE1	2.17	0.45
1:C:1939:ARG:NH2	1:G:396:THR:H	2.14	0.45
1:H:1051:ILE:HA	1:H:1052:GLY:HA2	1.63	0.45

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:1254:ASP:C	1:H:1256:LEU:N	2.68	0.45
1:H:1405:TYR:O	1:H:1424:PHE:HA	2.17	0.45
1:G:2316:GLN:HG2	1:H:2268:LEU:HD11	1.98	0.45
1:H:2422:LEU:O	1:H:2423:LEU:HD23	2.17	0.45
1:I:141:ARG:NH2	1:I:1005:GLU:OE1	2.46	0.45
1:I:2226:SER:O	1:I:2230:GLN:HG3	2.16	0.45
1:I:67:LEU:HD11	1:I:99:ARG:HH21	1.82	0.45
1:J:1355:PRO:HG2	1:J:1500:ILE:HD13	1.99	0.45
1:J:1385:PHE:CB	1:J:1409:GLN:HA	2.47	0.45
1:J:76:ASN:ND2	1:J:1892:ASP:O	2.29	0.45
1:J:2360:LEU:HD21	1:J:2367:SER:HA	1.98	0.45
1:J:557:ILE:HG22	1:J:558:ASP:O	2.16	0.45
1:A:353:TYR:CE2	1:A:397:LEU:HB2	2.52	0.45
1:A:771:ILE:HD11	1:A:804:LEU:HD13	1.99	0.45
1:B:1419:GLN:H	1:B:1462:ASN:ND2	2.15	0.45
1:B:1103:ASN:OD1	1:B:1584:LEU:HD22	2.17	0.45
1:B:1720:TRP:HD1	1:B:1740:ILE:HD12	1.81	0.45
1:B:2141:VAL:O	1:B:2152:SER:HB3	2.17	0.45
1:B:231:MET:HG3	1:B:898:VAL:HG23	1.99	0.45
1:C:1254:ASP:C	1:C:1256:LEU:N	2.69	0.45
1:C:417:GLY:N	1:C:418:SER:HA	2.32	0.45
1:D:1040:TYR:CG	1:D:1953:ASN:HB3	2.51	0.45
1:D:1122:TYR:CD2	1:D:1146:LYS:HA	2.52	0.45
1:D:1871:LEU:HD12	1:D:1981:LEU:HD21	1.99	0.45
1:D:520:ASN:HD21	1:D:528:TYR:HB2	1.82	0.45
1:D:141:ARG:NH1	1:D:970:TYR:O	2.50	0.45
1:E:1386:ILE:HG13	1:E:1410:TYR:HE1	1.82	0.45
1:E:2106:ASN:HD21	1:E:2189:ARG:HB2	1.80	0.45
1:G:1463:LYS:HA	1:G:1464:PRO:HD2	1.87	0.45
1:G:2040:LEU:HD23	1:G:2258:LEU:HD22	1.97	0.45
1:G:371:LYS:HB3	1:G:373:ASN:O	2.17	0.45
1:G:830:LEU:HD22	1:G:868:PHE:HB3	1.99	0.45
1:F:1972:HIS:HA	1:G:978:SER:OG	2.17	0.45
1:H:612:VAL:O	1:H:799:LEU:HD13	2.17	0.45
1:I:1360:ILE:HD13	1:I:1527:GLU:HA	1.98	0.45
1:I:1639:LYS:HB2	1:I:1694:LEU:O	2.17	0.45
1:I:1732:ILE:HG22	1:I:1733:VAL:N	2.32	0.45
1:I:778:LEU:HD21	1:I:785:MET:SD	2.57	0.45
1:J:1561:ASP:CG	1:J:1563:ARG:HH21	2.21	0.45
1:A:1416:GLY:HA2	1:A:1417:LEU:HA	1.45	0.44
1:A:1857:LEU:HA	1:A:1857:LEU:HD23	1.77	0.44

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2143:ASN:C	1:B:2151:GLY:HA2	2.38	0.44
1:A:654:MET:HE3	1:A:765:VAL:HG22	1.97	0.44
1:B:141:ARG:HG3	1:B:142:ARG:N	2.31	0.44
1:B:1352:TYR:HA	1:B:1535:LEU:O	2.17	0.44
1:B:1974:LEU:HA	1:B:1980:PRO:HA	1.99	0.44
1:B:2093:GLN:HB2	1:B:2203:LEU:HD22	1.99	0.44
1:B:2108:ASN:OD1	1:B:2109:ALA:N	2.50	0.44
1:B:2459:GLN:HG3	1:B:2460:PHE:O	2.17	0.44
1:B:595:ALA:HB2	1:B:605:LEU:HG	1.98	0.44
1:C:1294:PHE:HA	1:C:1301:ARG:CB	2.46	0.44
1:C:1495:PRO:HB2	1:C:1514:ASP:HB3	1.98	0.44
1:C:1627:MET:HA	1:C:1630:GLN:HB2	1.98	0.44
1:C:2102:LEU:HD13	1:C:2192:TRP:CZ2	2.52	0.44
1:C:276:LEU:HD23	1:C:437:LEU:HD13	1.99	0.44
1:C:62:TYR:CZ	1:C:66:ILE:HD11	2.52	0.44
1:C:927:ASN:HD21	1:C:930:GLN:HG3	1.82	0.44
1:C:940:GLU:HG3	1:C:979:ALA:HB2	1.99	0.44
1:D:1696:ASP:N	1:D:1696:ASP:OD2	2.48	0.44
1:D:2239:ALA:HA	1:D:2242:GLN:HG3	1.99	0.44
1:D:2336:SER:HB2	1:D:2506:ASP:OD1	2.17	0.44
1:D:333:GLU:HG2	1:D:506:ARG:HG3	1.98	0.44
1:D:336:THR:OG1	1:D:527:GLN:HG2	2.17	0.44
1:D:778:LEU:HA	1:D:781:THR:HG22	1.98	0.44
1:E:1405:TYR:HD1	1:E:1425:HIS:CD2	2.35	0.44
1:E:1514:ASP:OD2	1:E:1515:LYS:N	2.50	0.44
1:E:1312:ILE:HG12	1:E:1574:VAL:HG22	1.98	0.44
1:E:1783:LEU:HD13	1:E:1791:GLU:HB3	1.99	0.44
1:E:2250:LEU:HD23	1:E:2254:LEU:HD13	1.99	0.44
1:E:557:ILE:HD11	1:E:592:LYS:HE3	1.99	0.44
1:F:1248:MET:HE2	1:F:1283:SER:HA	1.99	0.44
1:F:1942:ASN:HD22	1:F:1942:ASN:C	2.16	0.44
1:F:2351:PHE:HE2	1:F:2369:GLY:HA3	1.82	0.44
1:F:2341:TYR:HD1	1:F:2353:LEU:HD13	1.81	0.44
1:F:220:GLN:CG	1:F:886:GLN:HG3	2.40	0.44
1:F:994:GLN:O	1:F:998:ASN:ND2	2.50	0.44
1:G:1051:ILE:HA	1:G:1052:GLY:HA2	1.54	0.44
1:G:109:VAL:CG2	1:G:152:GLN:HA	2.47	0.44
1:G:1103:ASN:OD1	1:G:1584:LEU:HD22	2.17	0.44
1:G:193:ARG:N	1:G:194:PRO:CD	2.80	0.44
1:G:2125:THR:OG1	1:G:2171:VAL:HG21	2.18	0.44
1:G:272:GLU:O	1:G:275:SER:HB3	2.17	0.44

*Continued on next page...*



*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:515:PHE:CZ	1:G:528:TYR:HD2	2.35	0.44
1:G:586:SER:O	1:G:590:ILE:HG13	2.17	0.44
1:H:1168:TYR:CD2	1:H:1202:HIS:HB3	2.52	0.44
1:H:1560:GLU:HA	1:H:1560:GLU:OE2	2.17	0.44
1:H:1649:PRO:CB	1:H:1683:ASP:HA	2.46	0.44
1:F:1067:SER:OG	1:H:2182:SER:OG	2.19	0.44
1:I:1124:ARG:HB2	1:I:1142:SER:O	2.17	0.44
1:I:1248:MET:HE1	1:I:1286:TYR:HB2	1.98	0.44
1:I:1868:TYR:CE1	1:I:1970:LEU:HG	2.52	0.44
1:I:614:GLU:HB3	1:I:617:THR:HG22	1.98	0.44
1:J:1438:ILE:HB	1:J:1441:ALA:HB3	1.99	0.44
1:J:348:PHE:CE1	1:J:354:ARG:HD3	2.52	0.44
1:J:159:LEU:HD13	1:J:985:ARG:NH1	2.32	0.44
1:A:1046:ASP:HA	1:A:1047:PRO:HD3	1.84	0.44
1:A:1167:LEU:HD22	1:A:1209:TRP:HH2	1.82	0.44
1:A:2349:GLY:O	1:A:2369:GLY:HA2	2.18	0.44
1:A:211:ILE:HG21	1:A:239:ILE:HD13	1.99	0.44
1:A:2410:ARG:HE	1:A:2515:ILE:HD11	1.81	0.44
1:B:296:PHE:CZ	1:B:444:ILE:HA	2.52	0.44
1:C:1163:TYR:HB2	1:C:1245:LEU:HD12	1.98	0.44
1:C:1599:GLN:HB3	1:C:1674:HIS:CE1	2.52	0.44
1:C:18:PHE:HB3	1:C:21:LEU:HB3	1.98	0.44
1:C:503:ILE:HG13	1:C:586:SER:OG	2.17	0.44
1:C:814:LEU:CD2	1:C:839:MET:HG3	2.47	0.44
1:D:1236:CYS:H	1:D:1303:ASN:ND2	2.14	0.44
1:D:18:PHE:HB3	1:D:21:LEU:HB3	1.99	0.44
1:D:219:GLU:O	1:D:223:ALA:N	2.48	0.44
1:D:2470:LEU:O	1:D:2473:GLU:HG3	2.16	0.44
1:D:353:TYR:HE2	1:D:397:LEU:HB2	1.80	0.44
1:D:75:GLN:NE2	1:D:1895:TYR:HE2	2.15	0.44
1:E:59:ASN:OD1	1:E:1927:ARG:NH2	2.49	0.44
1:E:911:THR:HG22	1:E:913:ALA:H	1.83	0.44
1:F:2019:PHE:CE1	1:F:2280:TYR:HB2	2.53	0.44
1:F:255:ILE:HD12	1:F:439:LYS:HG3	1.98	0.44
1:G:991:ALA:HA	1:G:994:GLN:OE1	2.17	0.44
1:H:586:SER:O	1:H:590:ILE:HG13	2.18	0.44
1:H:663:LEU:O	1:H:663:LEU:HD12	2.17	0.44
1:I:1122:TYR:CD2	1:I:1146:LYS:HA	2.52	0.44
1:I:1400:ASN:ND2	1:I:1478:GLY:O	2.50	0.44
1:I:496:LEU:O	1:I:499:CYS:N	2.47	0.44
1:I:832:ALA:C	1:I:834:GLN:H	2.21	0.44

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:1021:TRP:NE1	1:J:1026:LYS:HG2	2.33	0.44
1:J:594:LEU:HD23	1:J:594:LEU:HA	1.88	0.44
1:A:1428:THR:HB	1:A:1430:TYR:CE1	2.52	0.44
1:A:654:MET:O	1:A:796:HIS:CE1	2.71	0.44
1:A:697:ALA:HB2	1:A:708:ALA:HB2	1.99	0.44
1:B:1351:ILE:HG23	1:B:1537:ILE:HB	1.99	0.44
1:B:832:ALA:C	1:B:834:GLN:H	2.19	0.44
1:C:1238:GLY:O	1:C:1305:ARG:HG3	2.17	0.44
1:C:1650:TYR:O	1:C:1651:ASN:HB2	2.16	0.44
1:C:484:TYR:CE1	1:C:631:ILE:HG21	2.53	0.44
1:D:2138:ALA:O	1:D:2141:VAL:HG22	2.17	0.44
1:D:2122:ALA:CB	1:D:2175:GLU:HG2	2.40	0.44
1:E:1001:LEU:HD11	1:E:1018:PHE:HD2	1.82	0.44
1:E:1312:ILE:HD13	1:E:1351:ILE:HD12	1.98	0.44
1:E:2291:PHE:CD2	1:E:2317:MET:HA	2.52	0.44
1:E:755:TYR:O	1:E:758:ALA:HB3	2.18	0.44
1:E:814:LEU:HD22	1:E:838:ALA:HB1	1.99	0.44
1:F:1108:THR:OG1	1:F:1128:HIS:NE2	2.37	0.44
1:F:1375:MET:HG2	1:F:1385:PHE:CE1	2.53	0.44
1:F:1375:MET:HG2	1:F:1385:PHE:HE1	1.82	0.44
1:F:1428:THR:HB	1:F:1430:TYR:CE1	2.52	0.44
1:F:737:LYS:HD3	1:F:746:VAL:HG21	1.99	0.44
1:F:612:VAL:O	1:F:799:LEU:HD13	2.18	0.44
1:F:984:THR:HG23	1:F:987:ALA:H	1.82	0.44
1:G:1890:LEU:HB3	1:G:1960:TRP:CH2	2.52	0.44
1:G:99:ARG:NH1	1:G:1947:LEU:HB3	2.32	0.44
1:G:714:TRP:NE1	1:G:794:PRO:HG2	2.32	0.44
1:H:1260:LYS:HA	1:H:1287:ARG:NH1	2.25	0.44
1:H:1717:ASP:OD2	1:H:1717:ASP:N	2.50	0.44
1:H:308:TYR:CE1	1:H:313:LEU:HB2	2.53	0.44
1:H:336:THR:HA	1:H:337:ASN:HA	1.69	0.44
1:H:896:ALA:O	1:H:900:LEU:HG	2.17	0.44
1:I:1357:LEU:HD12	1:I:1555:PHE:CD2	2.52	0.44
1:I:123:TYR:CG	1:I:1907:LEU:HD21	2.52	0.44
1:J:538:LEU:HD21	1:J:551:LEU:HD12	2.00	0.44
1:A:614:GLU:HG3	1:A:630:LEU:HG	1.99	0.44
1:A:878:LEU:HA	1:A:878:LEU:HD23	1.75	0.44
1:B:1121:TYR:HB2	1:B:1147:ILE:HD11	2.00	0.44
1:B:1497:LYS:O	1:B:1499:GLN:HG3	2.17	0.44
1:B:99:ARG:NH1	1:B:1947:LEU:HB3	2.31	0.44
1:B:2294:PRO:HA	1:B:2295:GLY:HA2	1.75	0.44

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1023:LYS:HG3	1:C:1024:TYR:CD1	2.52	0.44
1:C:1121:TYR:HB2	1:C:1147:ILE:HD11	1.99	0.44
1:C:1589:ASN:OD1	1:C:1590:GLU:N	2.50	0.44
1:D:142:ARG:NE	1:D:168:LEU:HD11	2.33	0.44
1:D:1889:LEU:HA	1:D:1889:LEU:HD23	1.81	0.44
1:D:2336:SER:O	1:D:2340:VAL:HG23	2.17	0.44
1:E:1090:ASN:OD1	1:E:1611:ARG:NH1	2.50	0.44
1:F:1732:ILE:HG22	1:F:1733:VAL:N	2.32	0.44
1:F:1760:PHE:CD1	1:F:1820:PRO:HG3	2.53	0.44
1:F:2046:ARG:HB3	1:F:2251:TYR:CE2	2.52	0.44
1:F:2422:LEU:O	1:F:2423:LEU:HD23	2.17	0.44
1:F:71:ASN:HA	1:F:72:PRO:HD3	1.74	0.44
1:G:1027:ARG:HH11	1:G:1030:THR:CG2	2.30	0.44
1:G:1974:LEU:HA	1:G:1980:PRO:HA	1.99	0.44
1:G:873:SER:O	1:G:877:ILE:HG13	2.18	0.44
1:G:978:SER:HB2	1:G:981:ILE:HG13	2.00	0.44
1:H:608:LEU:HG	1:H:648:VAL:HG13	1.99	0.44
1:H:734:LEU:HA	1:H:734:LEU:HD23	1.76	0.44
1:H:807:PHE:O	1:H:811:VAL:HG23	2.17	0.44
1:I:1559:ALA:HB2	1:I:1565:LEU:HD21	2.00	0.44
1:I:340:GLN:HA	1:I:360:LYS:HB3	1.97	0.44
1:J:298:GLY:HA2	1:J:309:SER:OG	2.17	0.44
1:J:604:GLU:HB3	1:J:648:VAL:HG21	1.98	0.44
1:A:101:SER:HA	1:B:1429:THR:HG21	1.99	0.44
1:A:2463:ASP:O	1:A:2466:ASP:HB2	2.17	0.44
1:A:337:ASN:HB3	1:A:339:TYR:O	2.17	0.44
1:A:689:LEU:HD21	1:A:716:ASP:OD2	2.18	0.44
1:B:2142:PRO:HB3	1:B:2150:GLY:HA3	1.99	0.44
1:B:319:ASN:O	1:B:323:GLY:N	2.47	0.44
1:B:32:PHE:HD2	1:B:49:TYR:HD1	1.65	0.44
1:B:528:TYR:HB2	1:B:550:ILE:HD13	1.99	0.44
1:B:755:TYR:CE2	1:B:759:LEU:HD11	2.53	0.44
1:B:952:ARG:HG3	1:B:953:GLN:HG3	1.99	0.44
1:C:1651:ASN:HB3	1:C:1652:LEU:CA	2.48	0.44
1:C:1085:PHE:CE2	1:C:1767:TYR:HB3	2.53	0.44
1:B:890:ALA:HB2	1:C:559:ASP:HB2	1.99	0.44
1:D:193:ARG:N	1:D:194:PRO:HD2	2.32	0.44
1:D:2009:LEU:HD13	1:D:2294:PRO:HB3	1.98	0.44
1:D:2375:LEU:HD21	1:D:2387:LEU:HD21	1.99	0.44
1:D:36:VAL:HG11	1:D:40:LEU:HD22	1.99	0.44
1:E:1443:ARG:HH22	1:E:1445:LEU:HD21	1.83	0.44

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1653:SER:H	1:E:1713:LYS:CE	2.27	0.44
1:E:1770:GLU:HA	1:E:1774:TYR:HB2	1.99	0.44
1:F:1248:MET:HE1	1:F:1286:TYR:HB2	2.00	0.44
1:F:897:LEU:HD11	1:F:922:LEU:HD11	1.99	0.44
1:G:1045:ILE:HD11	1:G:1848:TYR:CE1	2.52	0.44
1:G:109:VAL:HG21	1:G:152:GLN:HA	2.00	0.44
1:G:1122:TYR:CD2	1:G:1146:LYS:HA	2.52	0.44
1:G:137:TYR:HE2	1:G:139:ASP:HB2	1.81	0.44
1:G:112:MET:HG2	1:G:1949:LEU:O	2.18	0.44
1:G:2291:PHE:CD2	1:G:2317:MET:HA	2.53	0.44
1:H:1090:ASN:OD1	1:H:1611:ARG:NH1	2.50	0.44
1:H:2004:GLN:H	1:H:2300:THR:HG23	1.82	0.44
1:H:99:ARG:HH11	1:H:1947:LEU:HB3	1.82	0.44
1:I:1410:TYR:CE2	1:I:1464:PRO:HB3	2.53	0.44
1:I:1660:TRP:NE1	1:I:1680:GLN:HB3	2.32	0.44
1:I:1721:TRP:HA	1:I:1740:ILE:HB	1.98	0.44
1:I:326:LYS:HZ2	1:I:430:GLU:HB3	1.82	0.44
1:I:353:TYR:HE2	1:I:397:LEU:HB2	1.82	0.44
1:I:553:ARG:NH2	1:I:556:ASN:OD1	2.50	0.44
1:I:779:PHE:CE2	1:I:804:LEU:HD11	2.52	0.44
1:J:1604:ARG:HG3	1:J:1637:LEU:HD21	2.00	0.44
1:J:41:SER:O	1:J:42:TRP:HB2	2.17	0.44
1:A:1868:TYR:OH	1:A:1975:SER:HA	2.17	0.44
1:A:201:HIS:O	1:A:204:TYR:N	2.50	0.44
1:A:608:LEU:HG	1:A:648:VAL:HG13	1.98	0.44
1:B:1805:TYR:HD2	1:B:1814:TYR:O	2.01	0.44
1:B:2229:THR:O	1:B:2233:GLN:HG2	2.17	0.44
1:B:609:LEU:O	1:B:613:GLY:HA2	2.17	0.44
1:B:749:GLN:HG3	1:B:750:GLU:N	2.33	0.44
1:C:129:LEU:HD11	1:C:1018:PHE:CE2	2.52	0.44
1:C:1163:TYR:CD2	1:C:1245:LEU:HB2	2.52	0.44
1:C:1668:VAL:HG13	1:C:1669:VAL:H	1.82	0.44
1:C:195:SER:HB3	1:C:198:THR:CG2	2.47	0.44
1:C:2410:ARG:HE	1:C:2515:ILE:CD1	2.31	0.44
1:C:707:VAL:O	1:C:711:VAL:HG23	2.18	0.44
1:D:106:PRO:HB3	1:D:1951:GLN:NE2	2.32	0.44
1:D:2377:PHE:HE1	1:D:2387:LEU:HD12	1.83	0.44
1:E:1179:LYS:HD2	1:E:1179:LYS:HA	1.73	0.44
1:E:1498:VAL:HG21	1:E:1530:TYR:HE2	1.83	0.44
1:E:984:THR:HG23	1:E:987:ALA:H	1.83	0.44
1:F:2214:ALA:O	1:F:2217:ARG:HB3	2.18	0.44

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:2375:LEU:HD21	1:F:2387:LEU:HD21	2.00	0.44
1:F:302:ASN:HB2	1:F:1430:TYR:HB3	2.00	0.44
1:G:1668:VAL:HG13	1:G:1669:VAL:H	1.82	0.44
1:G:930:GLN:HA	1:G:933:THR:HG22	2.00	0.44
1:H:1248:MET:HE1	1:H:1286:TYR:HB2	2.00	0.44
1:H:1559:ALA:HB2	1:H:1565:LEU:HD21	1.98	0.44
1:H:2407:GLY:HA3	1:H:2515:ILE:HG23	2.00	0.44
1:H:2411:ARG:HG3	1:H:2516:LYS:NZ	2.33	0.44
1:H:299:LYS:HE3	1:H:307:GLU:OE1	2.18	0.44
1:H:520:ASN:HD21	1:H:528:TYR:H	1.66	0.44
1:H:598:HIS:HB3	1:H:600:LEU:HD13	1.99	0.44
1:H:612:VAL:N	1:H:613:GLY:HA2	2.33	0.44
1:H:745:ALA:HB3	1:H:749:GLN:OE1	2.18	0.44
1:I:99:ARG:NH1	1:I:1948:PHE:O	2.51	0.44
1:J:1516:ASP:HB2	1:J:1532:PHE:HD2	1.82	0.44
1:J:59:ASN:OD1	1:J:1927:ARG:NH2	2.50	0.44
1:J:1951:GLN:HG2	1:J:1952:ILE:O	2.16	0.44
1:J:2273:CYS:HB3	1:J:2292:ILE:CD1	2.48	0.44
1:J:640:TRP:CD2	1:J:802:ILE:HG22	2.53	0.44
1:J:823:ALA:O	1:J:826:GLU:HB2	2.18	0.44
1:A:2359:LYS:O	1:A:2363:GLN:HG2	2.18	0.44
1:A:357:TYR:HE2	1:A:368:LEU:HD21	1.83	0.44
1:A:559:ASP:HB2	1:E:890:ALA:HB2	2.00	0.44
1:A:176:GLU:HG2	1:A:954:VAL:HG22	2.00	0.44
1:B:2190:GLN:O	1:B:2194:ILE:HG12	2.17	0.44
1:C:109:VAL:CG2	1:C:152:GLN:HA	2.48	0.44
1:C:1604:ARG:HE	1:C:1637:LEU:CD2	2.30	0.44
1:C:798:ALA:O	1:C:802:ILE:HG23	2.18	0.44
1:C:817:LYS:O	1:C:821:VAL:HG23	2.17	0.44
1:D:1124:ARG:HB3	1:D:1144:TRP:CE3	2.53	0.44
1:D:212:GLN:NE2	1:D:240:ASN:HA	2.32	0.44
1:D:218:LEU:HD11	1:D:239:ILE:HG21	1.99	0.44
1:D:2435:TYR:OH	1:D:2480:GLY:HA3	2.17	0.44
1:D:370:ILE:HD12	1:D:379:VAL:HB	2.00	0.44
1:E:1428:THR:HB	1:E:1430:TYR:CE1	2.53	0.44
1:E:1561:ASP:OD1	1:E:1563:ARG:HG2	2.16	0.44
1:E:1616:ARG:HH22	1:E:1628:GLU:CD	2.21	0.44
1:E:2331:VAL:HG13	1:E:2513:TYR:CD2	2.53	0.44
1:E:663:LEU:HD13	1:E:668:LYS:HE3	1.98	0.44
1:F:1865:ASP:OD1	1:F:1966:ARG:NH1	2.51	0.44
1:F:1972:HIS:CB	1:F:1974:LEU:HD13	2.48	0.44

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:734:LEU:HD23	1:F:734:LEU:HA	1.77	0.44
1:G:1416:GLY:HA2	1:G:1417:LEU:HA	1.47	0.44
1:G:2431:ALA:HB3	1:G:2450:VAL:CG1	2.48	0.44
1:G:255:ILE:HD12	1:G:439:LYS:HG3	2.00	0.44
1:H:1625:LEU:HD12	1:H:1798:TYR:CD1	2.53	0.44
1:H:784:GLU:H	1:H:784:GLU:HG3	1.45	0.44
1:I:1103:ASN:ND2	1:I:1584:LEU:HD22	2.33	0.44
1:I:1361:HIS:CG	1:I:1525:PHE:HD2	2.36	0.44
1:I:1660:TRP:CH2	1:I:1928:GLN:HA	2.53	0.44
1:I:1683:ASP:HA	1:I:1684:THR:HA	1.72	0.44
1:I:2357:ILE:O	1:I:2361:VAL:HG23	2.17	0.44
1:I:431:TYR:HB3	1:I:436:PHE:HB2	1.98	0.44
1:I:73:GLN:NE2	1:I:1952:ILE:HB	2.33	0.44
1:J:1327:TYR:CE2	1:J:1487:VAL:HG11	2.53	0.44
1:J:278:MET:SD	1:J:1478:GLY:HA2	2.57	0.44
1:J:343:VAL:HG22	1:J:410:LEU:HD11	1.99	0.44
1:J:378:LEU:HD22	1:J:395:ILE:HG21	1.99	0.44
1:J:261:GLU:HG2	1:J:434:TYR:CD1	2.52	0.44
1:J:22:THR:HG23	1:J:52:ALA:HA	1.99	0.44
1:J:901:ASP:HB3	1:J:904:GLN:HB3	2.00	0.44
1:A:1217:VAL:HG22	1:A:1220:LYS:HB2	1.99	0.44
1:A:138:LEU:HD11	1:A:996:TYR:CE2	2.52	0.44
1:A:649:PHE:O	1:A:653:ILE:HG23	2.17	0.44
1:B:2458:GLY:O	1:B:2459:GLN:HG2	2.18	0.44
1:C:1542:LEU:HD23	1:C:1549:ALA:HB1	1.99	0.44
1:C:1831:PRO:HG3	1:C:1843:HIS:HB2	2.00	0.44
1:C:29:PHE:HA	1:C:49:TYR:CE1	2.53	0.44
1:C:614:GLU:HB3	1:C:617:THR:HG22	2.00	0.44
1:C:232:HIS:HB2	1:C:903:ILE:HG12	1.98	0.44
1:D:1127:ASP:OD1	1:D:1129:SER:OG	2.35	0.44
1:D:1616:ARG:NH2	1:D:1628:GLU:OE1	2.44	0.44
1:D:355:LEU:HD23	1:D:370:ILE:HD13	2.00	0.44
1:E:1040:TYR:CG	1:E:1953:ASN:HB3	2.52	0.44
1:E:138:LEU:HD11	1:E:996:TYR:CD2	2.52	0.44
1:E:192:PHE:CE2	1:E:194:PRO:HG2	2.52	0.44
1:E:1951:GLN:HG2	1:E:1952:ILE:O	2.17	0.44
1:E:807:PHE:O	1:E:811:VAL:HG23	2.18	0.44
1:F:1796:LEU:HD13	1:F:1856:THR:HA	2.00	0.44
1:F:2258:LEU:HB2	1:J:2305:LEU:CD1	2.48	0.44
1:F:2413:LYS:O	1:F:2473:GLU:HG2	2.18	0.44
1:F:2326:LYS:HE2	1:F:2516:LYS:HB2	2.00	0.44

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:745:ALA:HB3	1:F:749:GLN:OE1	2.17	0.44
1:F:784:GLU:H	1:F:784:GLU:HG3	1.34	0.44
1:G:1168:TYR:HD2	1:G:1200:LEU:HD21	1.83	0.44
1:G:1800:TRP:CZ2	1:G:1802:PRO:HG3	2.53	0.44
1:G:2435:TYR:OH	1:G:2480:GLY:HA3	2.17	0.44
1:G:595:ALA:HB2	1:G:605:LEU:HG	2.00	0.44
1:H:1504:ALA:HB2	1:H:1551:ILE:HG12	1.99	0.44
1:H:15:GLN:HA	1:H:16:CYS:HA	1.82	0.44
1:H:2065:LEU:HD23	1:H:2065:LEU:HA	1.78	0.44
1:I:557:ILE:HG23	1:I:561:SER:HB2	1.99	0.44
1:J:1291:TYR:C	1:J:1293:GLN:H	2.20	0.44
1:J:1419:GLN:HB3	1:J:1462:ASN:OD1	2.18	0.44
1:J:1639:LYS:HG2	1:J:1694:LEU:HB2	2.00	0.44
1:J:1838:ASP:O	1:J:1842:GLN:HG3	2.18	0.44
1:A:161:THR:C	1:A:163:SER:H	2.20	0.44
1:A:1057:MET:HB2	1:A:1770:GLU:OE2	2.18	0.44
1:B:1915:THR:HG23	1:B:1943:THR:O	2.18	0.44
1:B:205:GLU:OE2	1:B:208:ARG:NH1	2.50	0.44
1:B:398:ASN:O	1:B:402:ILE:HG12	2.17	0.44
1:B:612:VAL:N	1:B:613:GLY:HA2	2.32	0.44
1:B:615:GLY:HA2	1:B:616:LYS:C	2.37	0.44
1:B:984:THR:HG23	1:B:987:ALA:H	1.83	0.44
1:C:1179:LYS:HA	1:C:1179:LYS:HD2	1.77	0.44
1:C:2059:GLN:HB2	1:D:2233:GLN:NE2	2.33	0.44
1:C:465:ASN:HD21	1:C:471:ASN:HD22	1.64	0.44
1:C:954:VAL:O	1:C:954:VAL:HG12	2.18	0.44
1:D:118:TYR:HB2	1:D:1031:TRP:CZ3	2.53	0.44
1:D:1380:LYS:O	1:D:1383:ASP:HB2	2.17	0.44
1:D:1634:GLU:HG3	1:D:1635:PRO:HD2	1.99	0.44
1:D:1750:LEU:HB3	1:D:1753:ILE:HD12	2.00	0.44
1:D:102:GLN:NE2	1:D:1901:THR:OG1	2.50	0.44
1:D:456:ILE:HG23	1:D:496:LEU:HD11	1.99	0.44
1:D:500:ASN:ND2	1:D:624:ASP:OD1	2.42	0.44
1:E:1617:ALA:HA	1:E:1624:ILE:HD11	2.00	0.44
1:E:1628:GLU:H	1:E:1628:GLU:HG3	1.57	0.44
1:E:1805:TYR:HD2	1:E:1814:TYR:O	2.01	0.44
1:E:863:THR:OG1	1:E:866:ASN:OD1	2.19	0.44
1:E:161:THR:HG22	1:E:981:ILE:O	2.18	0.44
1:F:161:THR:C	1:F:163:SER:H	2.21	0.44
1:F:357:TYR:HE2	1:F:368:LEU:HD21	1.81	0.44
1:F:974:ASP:HB3	1:F:977:VAL:HG23	2.00	0.44

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:189:LEU:HA	1:G:189:LEU:HD12	1.79	0.44
1:G:2329:LEU:HD21	1:H:2447:ALA:HB1	1.98	0.44
1:G:298:GLY:HA2	1:G:309:SER:OG	2.18	0.44
1:H:477:LYS:HD3	1:H:499:CYS:SG	2.58	0.44
1:I:161:THR:HG22	1:I:162:LEU:N	2.33	0.44
1:I:1859:LEU:HD21	1:I:1863:ARG:HH11	1.82	0.44
1:J:1071:ALA:O	1:J:1074:VAL:HG12	2.18	0.44
1:J:1239:TYR:HD2	1:J:1242:GLU:H	1.66	0.44
1:J:1420:GLY:H	1:J:1462:ASN:ND2	2.15	0.44
1:J:1630:GLN:HG2	1:J:1819:ARG:CB	2.46	0.44
1:J:1656:GLY:HA2	1:J:1657:ASP:HA	1.76	0.44
1:J:1976:ILE:HD13	1:J:1976:ILE:HA	1.91	0.44
1:H:1120:GLU:OE1	1:J:2133:LEU:HD11	2.18	0.44
1:J:2331:VAL:HG13	1:J:2513:TYR:CD2	2.53	0.44
1:H:2003:SER:OG	1:J:665:PRO:O	2.36	0.44
1:A:1659:ARG:HB3	1:A:1660:TRP:CZ3	2.53	0.43
1:A:220:GLN:CG	1:A:886:GLN:HG3	2.42	0.43
1:B:1885:GLN:HA	1:B:1888:HIS:CD2	2.53	0.43
1:B:2244:LYS:O	1:B:2247:ASN:ND2	2.51	0.43
1:C:1360:ILE:HD13	1:C:1527:GLU:HA	1.99	0.43
1:C:1534:ALA:O	1:C:1535:LEU:HD23	2.18	0.43
1:C:2214:ALA:O	1:C:2217:ARG:HB3	2.18	0.43
1:C:2360:LEU:HD21	1:C:2367:SER:HA	1.99	0.43
1:D:192:PHE:CE2	1:D:194:PRO:HG2	2.53	0.43
1:C:102:GLN:HG2	1:D:302:ASN:HD21	1.83	0.43
1:E:1338:PRO:HD2	1:E:1354:SER:O	2.18	0.43
1:E:1656:GLY:HA2	1:E:1657:ASP:HA	1.73	0.43
1:E:2377:PHE:CE1	1:E:2387:LEU:HD12	2.49	0.43
1:E:2422:LEU:H	1:E:2503:THR:HG21	1.83	0.43
1:E:832:ALA:C	1:E:834:GLN:H	2.22	0.43
1:F:314:ILE:CD1	1:F:329:ARG:HG3	2.48	0.43
1:F:65:ARG:NH1	1:F:88:GLU:OE2	2.46	0.43
1:G:2410:ARG:CG	1:G:2515:ILE:HG12	2.44	0.43
1:G:361:ASN:OD1	1:G:362:PHE:N	2.51	0.43
1:G:456:ILE:HG23	1:G:496:LEU:HD11	2.00	0.43
1:G:71:ASN:HA	1:G:72:PRO:HD3	1.83	0.43
1:H:1627:MET:HA	1:H:1630:GLN:HB2	1.99	0.43
1:H:1641:PHE:HD1	1:H:1692:ILE:HB	1.83	0.43
1:H:2147:PHE:CG	1:I:2147:PHE:HE2	2.36	0.43
1:H:357:TYR:CE1	1:H:370:ILE:HD11	2.53	0.43
1:I:1114:SER:OG	1:I:1120:GLU:HB2	2.18	0.43

*Continued on next page...*



*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:1125:SER:H	1:I:1142:SER:HB3	1.83	0.43
1:I:1248:MET:CE	1:I:1286:TYR:HB2	2.48	0.43
1:I:121:GLU:HG3	1:I:124:ARG:NH1	2.33	0.43
1:I:1336:ASP:O	1:I:1338:PRO:HD3	2.17	0.43
1:I:247:LEU:O	1:I:251:LEU:HG	2.18	0.43
1:I:273:PRO:HG3	1:I:434:TYR:HE2	1.83	0.43
1:J:2411:ARG:O	1:J:2514:THR:N	2.43	0.43
1:J:2433:LEU:HD21	1:J:2484:LEU:HD12	2.00	0.43
1:A:1630:GLN:HE22	1:A:1818:VAL:HA	1.83	0.43
1:A:1816:TRP:CZ2	1:A:1849:LYS:HD3	2.53	0.43
1:B:1122:TYR:HD2	1:B:1146:LYS:HA	1.83	0.43
1:B:1602:ARG:CZ	1:B:1693:PRO:HB2	2.49	0.43
1:B:2238:LEU:CD2	1:B:2242:GLN:HE21	2.32	0.43
1:B:271:ILE:HG21	1:B:281:TYR:OH	2.18	0.43
1:B:283:LYS:HG3	1:B:288:LEU:O	2.18	0.43
1:B:380:ARG:NH1	1:B:382:GLU:OE1	2.50	0.43
1:C:1296:THR:HG23	1:C:1297:ASN:O	2.17	0.43
1:C:1327:TYR:CE2	1:C:1487:VAL:HG11	2.52	0.43
1:C:32:PHE:CD2	1:C:49:TYR:HD1	2.36	0.43
1:D:1616:ARG:HH22	1:D:1628:GLU:CD	2.20	0.43
1:D:1876:LEU:HD23	1:D:1876:LEU:HA	1.70	0.43
1:D:312:GLN:HG3	1:D:329:ARG:NH1	2.33	0.43
1:D:682:ASP:HB3	1:D:685:LYS:HB2	2.00	0.43
1:D:965:ASP:O	1:D:969:GLN:HG3	2.18	0.43
1:E:1597:GLN:HE21	1:E:1597:GLN:HB2	1.63	0.43
1:E:1919:HIS:CE1	1:E:1923:ILE:HD11	2.53	0.43
1:E:521:THR:HG23	1:E:522:PRO:CD	2.44	0.43
1:F:2204:LYS:HB3	1:J:2087:LYS:HD3	1.99	0.43
1:F:2435:TYR:OH	1:F:2480:GLY:HA3	2.18	0.43
1:F:42:TRP:O	1:F:42:TRP:CD1	2.71	0.43
1:F:615:GLY:HA2	1:F:616:LYS:C	2.38	0.43
1:G:2014:MET:HG2	1:G:2441:LEU:HB2	2.00	0.43
1:G:2040:LEU:HB2	1:G:2258:LEU:HD22	2.00	0.43
1:H:1503:LYS:HG2	1:H:1508:GLU:HG2	2.00	0.43
1:H:1604:ARG:HB2	1:H:1604:ARG:HE	1.65	0.43
1:H:2460:PHE:O	1:H:2461:GLN:C	2.56	0.43
1:H:371:LYS:HB3	1:H:373:ASN:O	2.19	0.43
1:H:733:TRP:NE1	1:H:748:THR:HB	2.34	0.43
1:I:2330:GLU:HB3	1:J:2460:PHE:CE2	2.53	0.43
1:I:2433:LEU:O	1:I:2447:ALA:HA	2.19	0.43
1:I:2431:ALA:HB3	1:I:2450:VAL:HG13	2.00	0.43

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:497:ILE:O	1:I:590:ILE:HG12	2.19	0.43
1:J:129:LEU:HD11	1:J:1018:PHE:CE2	2.53	0.43
1:J:1043:ASN:HD21	1:J:1953:ASN:HB2	1.83	0.43
1:J:1138:ALA:HB2	1:J:1761:SER:O	2.18	0.43
1:J:1248:MET:HE3	1:J:1286:TYR:HD2	1.83	0.43
1:J:99:ARG:NH1	1:J:1948:PHE:O	2.51	0.43
1:J:2312:LEU:O	1:J:2316:GLN:HG3	2.18	0.43
1:J:2429:VAL:O	1:J:2451:SER:HA	2.17	0.43
1:J:332:ARG:HD3	1:J:334:TYR:CE1	2.53	0.43
1:J:288:LEU:HD21	1:J:448:ARG:HD2	2.00	0.43
1:A:1640:GLY:HA2	1:A:1691:PHE:HE1	1.83	0.43
1:A:1973:ASN:HB2	1:A:1982:TYR:HD2	1.84	0.43
1:A:566:LEU:HD21	1:A:573:ASN:HD22	1.83	0.43
1:B:1069:LEU:HD23	1:B:1783:LEU:HD23	1.98	0.43
1:C:1367:GLN:HG3	1:C:1368:LYS:N	2.32	0.43
1:C:1050:ARG:HG3	1:C:1838:ASP:CG	2.39	0.43
1:C:2043:ILE:HD12	1:C:2254:LEU:HD21	2.00	0.43
1:C:947:SER:HB2	1:C:975:ASN:HD22	1.82	0.43
1:D:1071:ALA:O	1:D:1074:VAL:HG12	2.19	0.43
1:D:124:ARG:HB2	1:D:1911:ALA:HB1	2.00	0.43
1:D:1505:GLY:HA2	1:D:1542:LEU:HA	1.99	0.43
1:D:2341:TYR:CD1	1:D:2353:LEU:HD13	2.53	0.43
1:D:82:ILE:HD13	1:D:1846:MET:HG3	2.00	0.43
1:E:1411:SER:HA	1:E:1415:SER:OG	2.17	0.43
1:E:2106:ASN:HB2	1:E:2189:ARG:HH12	1.77	0.43
1:E:497:ILE:HD13	1:E:589:TYR:CD2	2.48	0.43
1:E:650:GLN:O	1:E:653:ILE:HG12	2.18	0.43
1:F:1057:MET:HE2	1:F:1774:TYR:HB3	2.00	0.43
1:F:1610:ALA:O	1:F:1614:VAL:HG23	2.18	0.43
1:F:1651:ASN:HB3	1:F:1652:LEU:CA	2.46	0.43
1:F:1784:LEU:HA	1:F:1784:LEU:HD23	1.87	0.43
1:F:1816:TRP:HB2	1:F:1822:LEU:CD1	2.48	0.43
1:F:276:LEU:HA	1:F:281:TYR:CD2	2.53	0.43
1:G:1627:MET:HA	1:G:1630:GLN:HB2	2.01	0.43
1:G:2036:PHE:HB3	1:G:2262:TYR:HD1	1.83	0.43
1:G:2411:ARG:HG3	1:G:2516:LYS:NZ	2.33	0.43
1:H:1098:HIS:HE1	1:H:1103:ASN:HA	1.84	0.43
1:H:1447:ASN:ND2	1:H:1456:TYR:O	2.52	0.43
1:H:161:THR:HG22	1:H:162:LEU:N	2.33	0.43
1:H:1777:MET:CE	1:H:1799:VAL:HG11	2.48	0.43
1:H:33:ARG:CZ	1:H:37:SER:HA	2.48	0.43

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:1130:LYS:HG3	1:I:1140:ALA:HB2	1.99	0.43
1:I:2033:LEU:HD22	1:I:2307:GLY:CA	2.49	0.43
1:H:2052:LEU:HB2	1:I:2240:PHE:CE2	2.52	0.43
1:I:2410:ARG:HE	1:I:2515:ILE:CD1	2.32	0.43
1:J:1355:PRO:HB3	1:J:1555:PHE:CZ	2.53	0.43
1:J:2442:ALA:HB3	1:J:2445:CYS:HB2	2.00	0.43
1:I:892:GLN:HE22	1:J:542:SER:N	2.15	0.43
1:J:733:TRP:CD2	1:J:752:ILE:HD12	2.54	0.43
1:J:967:LEU:HD23	1:J:975:ASN:ND2	2.33	0.43
1:A:1255:THR:HA	1:A:1296:THR:HG21	1.99	0.43
1:A:1295:ASP:HB3	1:A:1301:ARG:HE	1.82	0.43
1:A:1424:PHE:HE2	1:A:1434:VAL:HG21	1.84	0.43
1:A:1797:LYS:HG3	1:A:1801:SER:HB3	2.00	0.43
1:A:1836:ASP:HB3	1:A:1839:ALA:HB3	2.00	0.43
1:A:557:ILE:HG22	1:A:558:ASP:O	2.17	0.43
1:A:951:ILE:HD11	1:A:967:LEU:HB2	1.99	0.43
1:B:1421:ARG:HG3	1:B:1458:THR:HG22	1.99	0.43
1:B:1604:ARG:HH12	1:B:1634:GLU:HB3	1.83	0.43
1:B:1975:SER:N	1:B:1979:GLN:O	2.43	0.43
1:B:2291:PHE:CD2	1:B:2317:MET:HA	2.53	0.43
1:B:2336:SER:O	1:B:2340:VAL:HG23	2.18	0.43
1:B:2433:LEU:O	1:B:2447:ALA:HA	2.19	0.43
1:B:250:ILE:HG23	1:B:267:ASN:HD21	1.84	0.43
1:B:799:LEU:O	1:B:802:ILE:HG12	2.18	0.43
1:C:1101:ILE:HD11	1:C:1311:GLU:HB2	1.99	0.43
1:C:2258:LEU:HA	1:C:2261:ILE:HG22	1.99	0.43
1:C:663:LEU:HD12	1:C:663:LEU:O	2.19	0.43
1:D:1027:ARG:HH11	1:D:1030:THR:HG21	1.83	0.43
1:D:1293:GLN:O	1:D:1301:ARG:HB3	2.17	0.43
1:D:2121:ALA:HB2	1:E:2172:MET:HB2	2.00	0.43
1:D:2187:ARG:HD3	1:D:2190:GLN:OE1	2.18	0.43
1:D:840:ASN:HB3	1:E:649:PHE:CE2	2.54	0.43
1:E:733:TRP:HB3	1:E:752:ILE:HD11	2.00	0.43
1:E:896:ALA:O	1:E:900:LEU:HG	2.19	0.43
1:F:1639:LYS:HB2	1:F:1694:LEU:O	2.18	0.43
1:F:2442:ALA:CB	1:F:2445:CYS:HB2	2.46	0.43
1:F:689:LEU:HD13	1:F:713:LEU:CD2	2.49	0.43
1:G:132:SER:HA	1:G:137:TYR:CG	2.53	0.43
1:G:1317:SER:HB3	1:G:1336:ASP:HB2	2.00	0.43
1:G:1640:GLY:HA2	1:G:1691:PHE:CE1	2.50	0.43
1:G:458:GLU:CD	1:G:506:ARG:HH22	2.20	0.43

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:1097:TYR:CE1	1:H:1161:VAL:HG23	2.53	0.43
1:H:141:ARG:NH1	1:H:970:TYR:O	2.50	0.43
1:H:33:ARG:NE	1:H:42:TRP:CZ2	2.86	0.43
1:H:520:ASN:HD21	1:H:528:TYR:HB2	1.83	0.43
1:I:1127:ASP:N	1:I:1140:ALA:HB1	2.33	0.43
1:I:1179:LYS:HA	1:I:1179:LYS:HD2	1.82	0.43
1:I:835:LEU:O	1:I:835:LEU:HD23	2.18	0.43
1:J:1097:TYR:HB2	1:J:1160:PRO:O	2.19	0.43
1:J:1382:GLY:CA	1:J:1491:THR:HB	2.48	0.43
1:J:2258:LEU:HD23	1:J:2258:LEU:O	2.17	0.43
1:J:615:GLY:HA2	1:J:616:LYS:C	2.39	0.43
1:A:1696:ASP:N	1:A:1696:ASP:OD2	2.51	0.43
1:A:1821:LEU:HD22	1:A:1845:PRO:HB3	1.99	0.43
1:A:2251:TYR:CD1	1:A:2251:TYR:N	2.86	0.43
1:A:2360:LEU:HG	1:A:2366:GLY:HA3	2.00	0.43
1:A:810:TRP:O	1:A:814:LEU:HG	2.18	0.43
1:B:1124:ARG:HD2	1:B:1144:TRP:CZ2	2.53	0.43
1:B:1139:ASN:HD21	1:B:1829:SER:HB2	1.84	0.43
1:B:125:GLU:HG3	1:B:1017:PHE:CG	2.54	0.43
1:B:130:HIS:CD2	1:B:136:TYR:HB2	2.53	0.43
1:B:1404:PHE:HB2	1:B:1473:MET:CE	2.48	0.43
1:B:2448:LEU:HG	1:B:2458:GLY:HA3	2.00	0.43
1:B:247:LEU:HD23	1:B:251:LEU:HD11	2.01	0.43
1:C:1021:TRP:HA	1:C:1025:ASN:HB2	2.01	0.43
1:C:1459:ASP:CG	1:C:1462:ASN:HB3	2.38	0.43
1:D:2063:LEU:HA	1:D:2063:LEU:HD23	1.87	0.43
1:C:2128:VAL:HG22	1:D:2165:MET:HB3	2.01	0.43
1:E:1092:LYS:O	1:E:1112:GLY:HA2	2.18	0.43
1:E:1093:VAL:H	1:E:1594:GLN:NE2	2.11	0.43
1:E:1268:TYR:CE1	1:E:1278:MET:HG3	2.53	0.43
1:E:1703:TYR:HB3	1:E:1724:HIS:HB3	2.01	0.43
1:E:73:GLN:CD	1:E:1952:ILE:HG23	2.39	0.43
1:E:2099:TYR:CD2	1:E:2195:GLN:HB3	2.52	0.43
1:E:2118:ARG:HB3	1:E:2178:LYS:HB2	2.00	0.43
1:E:534:GLU:HB2	1:E:580:ASN:ND2	2.33	0.43
1:E:779:PHE:CE1	1:E:804:LEU:HD21	2.53	0.43
1:F:1500:ILE:HD11	1:F:1532:PHE:CE1	2.53	0.43
1:F:1625:LEU:HD12	1:F:1798:TYR:CD1	2.54	0.43
1:F:1639:LYS:HG2	1:F:1694:LEU:HB2	2.00	0.43
1:F:1662:LYS:HD2	1:F:1712:LYS:HE2	1.99	0.43
1:F:2000:VAL:HG21	1:G:772:ASN:ND2	2.32	0.43

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:2258:LEU:HA	1:F:2261:ILE:CG2	2.48	0.43
1:F:534:GLU:HB2	1:F:580:ASN:ND2	2.34	0.43
1:F:733:TRP:CG	1:F:752:ILE:HD12	2.53	0.43
1:G:1514:ASP:OD2	1:G:1515:LYS:HG3	2.18	0.43
1:G:1710:THR:OG1	1:G:1715:PRO:HA	2.18	0.43
1:G:1719:THR:HG23	1:G:1721:TRP:HB2	1.99	0.43
1:G:1784:LEU:HD23	1:G:1784:LEU:HA	1.53	0.43
1:G:2282:TRP:HD1	1:G:2469:PHE:CZ	2.36	0.43
1:G:615:GLY:HA2	1:G:616:LYS:C	2.39	0.43
1:H:161:THR:HG22	1:H:162:LEU:H	1.83	0.43
1:H:1976:ILE:HA	1:H:1976:ILE:HD13	1.92	0.43
1:H:308:TYR:CD1	1:H:313:LEU:HB2	2.53	0.43
1:I:1374:LEU:HD21	1:I:1425:HIS:HB2	2.00	0.43
1:I:1490:ASN:HB3	1:I:1561:ASP:HB3	2.01	0.43
1:I:1636:GLN:C	1:I:1637:LEU:HD12	2.39	0.43
1:J:1625:LEU:HD12	1:J:1798:TYR:CD1	2.54	0.43
1:J:2004:GLN:H	1:J:2300:THR:HG23	1.83	0.43
1:J:30:ASN:O	1:J:34:GLN:HG2	2.19	0.43
1:A:1358:ARG:NH2	1:A:1527:GLU:OE1	2.47	0.43
1:A:2424:GLY:O	1:A:2427:GLN:HB2	2.18	0.43
1:A:465:ASN:OD1	1:A:466:LEU:N	2.49	0.43
1:A:622:ILE:HG21	1:A:627:LEU:HD23	2.00	0.43
1:B:1561:ASP:OD2	1:B:1563:ARG:NH2	2.52	0.43
1:B:1732:ILE:HG22	1:B:1733:VAL:N	2.33	0.43
1:B:965:ASP:O	1:B:968:TYR:HB3	2.19	0.43
1:C:1659:ARG:HH11	1:C:1929:ASN:CG	2.22	0.43
1:C:1991:ASP:HA	1:C:1992:PRO:HD2	1.86	0.43
1:C:220:GLN:HA	1:C:223:ALA:HB3	2.00	0.43
1:C:2433:LEU:HA	1:C:2433:LEU:HD23	1.84	0.43
1:C:67:LEU:HD11	1:C:99:ARG:HH21	1.84	0.43
1:D:1595:TYR:CD2	1:D:1637:LEU:HB3	2.53	0.43
1:D:73:GLN:NE2	1:D:1952:ILE:HB	2.34	0.43
1:D:659:TYR:O	1:D:754:GLN:HG2	2.18	0.43
1:E:1213:ILE:HD13	1:E:1273:MET:HG3	2.00	0.43
1:E:189:LEU:HD12	1:E:189:LEU:HA	1.73	0.43
1:E:30:ASN:O	1:E:34:GLN:HG2	2.17	0.43
1:E:460:ILE:O	1:E:464:VAL:HG23	2.18	0.43
1:F:195:SER:HB3	1:F:198:THR:HG21	1.99	0.43
1:F:2033:LEU:CD1	1:F:2266:TYR:HA	2.48	0.43
1:G:1069:LEU:HD23	1:G:1069:LEU:HA	1.85	0.43
1:G:1233:GLY:CA	1:G:1250:TYR:HB2	2.48	0.43

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1805:TYR:OH	1:G:1817:ASN:HB2	2.18	0.43
1:G:2393:PHE:CE1	1:G:2482:LEU:HB2	2.53	0.43
1:G:814:LEU:HD13	1:G:821:VAL:HG21	2.00	0.43
1:H:2145:PHE:HB3	1:H:2146:GLY:HA2	2.00	0.43
1:I:1055:LYS:H	1:I:1055:LYS:HG2	1.65	0.43
1:I:1177:ILE:HD12	1:I:1195:ARG:HE	1.84	0.43
1:I:1210:ASN:ND2	1:I:1211:THR:O	2.51	0.43
1:I:1876:LEU:HA	1:I:1876:LEU:HD23	1.77	0.43
1:I:1043:ASN:HD21	1:I:1953:ASN:HB2	1.84	0.43
1:I:2258:LEU:HD23	1:I:2258:LEU:O	2.19	0.43
1:I:739:THR:HA	1:I:740:PRO:HD3	1.88	0.43
1:I:832:ALA:HB2	1:I:868:PHE:CE2	2.53	0.43
1:F:1211:THR:HG21	1:J:1116:THR:HG23	2.01	0.43
1:J:150:LEU:HB2	1:J:1905:PRO:HD2	1.99	0.43
1:J:153:GLN:O	1:J:157:ILE:HG12	2.18	0.43
1:J:1783:LEU:HD23	1:J:1783:LEU:HA	1.85	0.43
1:J:2106:ASN:OD1	1:J:2107:ILE:HG13	2.19	0.43
1:J:2344:LEU:HB2	1:J:2350:PRO:HB3	2.00	0.43
1:J:965:ASP:OD2	1:J:976:GLN:NE2	2.52	0.43
1:A:234:ALA:O	1:A:237:LEU:HB3	2.19	0.43
1:A:414:LEU:HB2	1:A:415:PRO:HD2	2.00	0.43
1:B:1326:ASP:OD2	1:B:1564:LYS:N	2.52	0.43
1:B:1376:ASN:HA	1:B:1525:PHE:CD1	2.54	0.43
1:B:1696:ASP:N	1:B:1696:ASP:OD2	2.50	0.43
1:B:1831:PRO:HG3	1:B:1843:HIS:HB2	1.99	0.43
1:B:1849:LYS:O	1:B:1852:THR:HB	2.18	0.43
1:B:2255:ARG:HG2	1:B:2255:ARG:O	2.19	0.43
1:B:371:LYS:HB3	1:B:373:ASN:O	2.18	0.43
1:B:776:PHE:O	1:B:780:VAL:HG12	2.18	0.43
1:C:1423:LEU:HD23	1:C:1456:TYR:HB3	2.00	0.43
1:C:1844:ASP:HA	1:C:1845:PRO:HD3	1.80	0.43
1:C:73:GLN:NE2	1:C:1952:ILE:HB	2.34	0.43
1:C:2142:PRO:HA	1:C:2150:GLY:HA3	1.99	0.43
1:C:538:LEU:HD21	1:C:551:LEU:HD12	2.00	0.43
1:D:1336:ASP:O	1:D:1338:PRO:HD3	2.19	0.43
1:D:1411:SER:HA	1:D:1415:SER:CB	2.49	0.43
1:D:142:ARG:NH1	1:D:144:ASP:OD2	2.52	0.43
1:D:1589:ASN:OD1	1:D:1590:GLU:N	2.49	0.43
1:D:1717:ASP:N	1:D:1717:ASP:OD2	2.50	0.43
1:D:1994:ALA:HB2	1:E:2065:LEU:HD11	1.99	0.43
1:D:336:THR:HA	1:D:337:ASN:HA	1.79	0.43

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:586:SER:O	1:D:590:ILE:HG13	2.19	0.43
1:D:734:LEU:HA	1:D:734:LEU:HD23	1.81	0.43
1:E:1287:ARG:O	1:E:1291:TYR:HB3	2.18	0.43
1:E:1408:TYR:CD2	1:E:1467:LEU:HD12	2.54	0.43
1:E:1544:PHE:HA	1:E:1549:ALA:HB2	2.00	0.43
1:E:2047:GLN:HB2	1:E:2251:TYR:HB3	2.00	0.43
1:E:745:ALA:HB3	1:E:749:GLN:OE1	2.19	0.43
1:E:79:HIS:ND1	1:E:1802:PRO:HB3	2.33	0.43
1:E:995:LEU:HD23	1:E:995:LEU:HA	1.81	0.43
1:F:2117:LEU:HD11	1:J:1062:GLN:HG2	2.01	0.43
1:F:18:PHE:HB3	1:F:21:LEU:HB3	2.00	0.43
1:F:2494:LYS:H	1:F:2494:LYS:HD2	1.84	0.43
1:G:1371:GLN:O	1:G:1375:MET:HG3	2.19	0.43
1:G:1651:ASN:CG	1:G:1652:LEU:HA	2.39	0.43
1:G:2360:LEU:HG	1:G:2366:GLY:HA3	2.01	0.43
1:H:1495:PRO:HB2	1:H:1514:ASP:HB3	2.01	0.43
1:H:1516:ASP:HB2	1:H:1532:PHE:HD2	1.82	0.43
1:H:153:GLN:O	1:H:157:ILE:HG12	2.19	0.43
1:H:159:LEU:O	1:H:983:THR:N	2.51	0.43
1:H:1660:TRP:NE1	1:H:1680:GLN:HB3	2.33	0.43
1:H:1925:ALA:HB1	1:H:1931:PRO:CG	2.48	0.43
1:H:2048:ASP:HB3	1:I:2244:LYS:HE3	2.01	0.43
1:I:1135:LYS:HB3	1:I:1135:LYS:HE2	1.73	0.43
1:I:1101:ILE:HD11	1:I:1311:GLU:HB2	2.01	0.43
1:I:1416:GLY:HA2	1:I:1417:LEU:HA	1.53	0.43
1:I:1885:GLN:HA	1:I:1888:HIS:CD2	2.52	0.43
1:I:2029:MET:HG3	1:I:2272:ARG:CG	2.43	0.43
1:I:600:LEU:HD23	1:I:605:LEU:HA	1.99	0.43
1:J:1658:GLU:OE1	1:J:1712:LYS:HE3	2.18	0.43
1:J:1772:PHE:O	1:J:1776:PRO:HG2	2.19	0.43
1:J:1807:VAL:HB	1:J:1812:GLN:OE1	2.19	0.43
1:J:593:LEU:HA	1:J:593:LEU:HD23	1.86	0.43
1:A:1836:ASP:O	1:A:1840:VAL:HG23	2.19	0.43
1:A:1898:LEU:HB2	1:B:299:LYS:HB2	2.00	0.43
1:B:278:MET:SD	1:B:1478:GLY:HA2	2.58	0.43
1:B:1595:TYR:HB3	1:B:1637:LEU:HD13	2.01	0.43
1:B:520:ASN:ND2	1:B:528:TYR:H	2.15	0.43
1:C:1126:VAL:HB	1:C:1141:TRP:CZ3	2.53	0.43
1:C:1155:LYS:HB2	1:C:1155:LYS:HE3	1.77	0.43
1:C:1177:ILE:HG12	1:D:2145:PHE:CD2	2.52	0.43
1:C:1300:ARG:C	1:C:1301:ARG:HG2	2.39	0.43

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2143:ASN:C	1:C:2151:GLY:HA2	2.38	0.43
1:C:308:TYR:CE2	1:C:344:GLU:HB3	2.54	0.43
1:D:1291:TYR:C	1:D:1293:GLN:H	2.21	0.43
1:D:1357:LEU:HG	1:D:1358:ARG:N	2.33	0.43
1:D:1497:LYS:HB3	1:D:1558:PHE:HB2	2.01	0.43
1:D:1660:TRP:CH2	1:D:1928:GLN:HA	2.54	0.43
1:D:1690:LEU:HD23	1:D:1690:LEU:HA	1.85	0.43
1:D:2129:GLN:O	1:D:2133:LEU:HG	2.18	0.43
1:E:1963:LEU:O	1:E:1967:VAL:HG23	2.19	0.43
1:E:251:LEU:HD13	1:E:446:LEU:HG	2.01	0.43
1:E:586:SER:O	1:E:590:ILE:HG13	2.19	0.43
1:D:1972:HIS:HA	1:E:978:SER:HG	1.84	0.43
1:F:1340:ILE:HD13	1:F:1572:ILE:HD13	2.01	0.43
1:F:1385:PHE:HB2	1:F:1409:GLN:HA	1.99	0.43
1:F:1498:VAL:HG21	1:F:1530:TYR:CE2	2.51	0.43
1:F:1559:ALA:HB2	1:F:1565:LEU:HD21	2.01	0.43
1:F:503:ILE:HG13	1:F:586:SER:OG	2.18	0.43
1:H:2136:ALA:HA	1:H:2156:ALA:HB1	2.01	0.43
1:H:450:THR:HG21	1:H:478:VAL:HG11	2.00	0.43
1:I:1121:TYR:HB2	1:I:1147:ILE:HD11	2.01	0.43
1:I:1149:CYS:HB2	1:I:1209:TRP:HB3	1.99	0.43
1:I:1363:GLY:HA3	1:I:1369:ARG:HA	2.01	0.43
1:I:1475:ASP:HB2	1:I:1479:THR:HB	1.99	0.43
1:I:814:LEU:HD13	1:I:821:VAL:HG21	2.01	0.43
1:J:1224:LEU:HD11	1:J:1249:PHE:HB3	2.00	0.43
1:J:1261:ASN:H	1:J:1287:ARG:NH1	2.17	0.43
1:J:1408:TYR:CD2	1:J:1467:LEU:HD12	2.53	0.43
1:J:142:ARG:HD2	1:J:971:LEU:O	2.19	0.43
1:J:1437:TRP:CZ3	1:J:1439:PRO:HG3	2.53	0.43
1:J:195:SER:HB3	1:J:198:THR:OG1	2.19	0.43
1:J:2433:LEU:HD23	1:J:2433:LEU:HA	1.63	0.43
1:J:220:GLN:CG	1:J:886:GLN:HG3	2.41	0.43
1:A:147:SER:HA	1:A:1906:ARG:HE	1.84	0.43
1:A:733:TRP:HE1	1:A:748:THR:HB	1.84	0.43
1:A:612:VAL:O	1:A:799:LEU:HD13	2.18	0.43
1:A:799:LEU:O	1:A:802:ILE:HG12	2.19	0.43
1:B:170:LEU:HD13	1:B:182:TYR:HD2	1.83	0.43
1:B:2331:VAL:HG23	1:C:2451:SER:OG	2.19	0.43
1:C:1876:LEU:HA	1:C:1876:LEU:HD23	1.75	0.43
1:C:2106:ASN:HD21	1:C:2189:ARG:HB2	1.83	0.43
1:C:524:LEU:H	1:C:525:ASN:HA	1.79	0.43

*Continued on next page...*



*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:716:ASP:OD1	1:C:727:ALA:N	2.48	0.43
1:C:220:GLN:CG	1:C:886:GLN:HG3	2.38	0.43
1:D:1416:GLY:HA2	1:D:1417:LEU:HA	1.53	0.43
1:D:2046:ARG:HB3	1:D:2251:TYR:CE2	2.54	0.43
1:D:2330:GLU:HB3	1:E:2460:PHE:CE2	2.54	0.43
1:D:896:ALA:O	1:D:900:LEU:HG	2.18	0.43
1:E:1696:ASP:N	1:E:1696:ASP:OD2	2.52	0.43
1:E:1889:LEU:HA	1:E:1889:LEU:HD23	1.80	0.43
1:D:2143:ASN:HB3	1:E:2151:GLY:HA2	2.01	0.43
1:E:598:HIS:CB	1:E:600:LEU:HD13	2.49	0.43
1:E:158:GLU:OE2	1:E:982:LYS:HE2	2.19	0.43
1:F:1097:TYR:CE1	1:F:1161:VAL:HG23	2.54	0.43
1:G:1163:TYR:CD2	1:G:1245:LEU:HB3	2.53	0.43
1:H:1711:PHE:HD1	1:H:1713:LYS:HG2	1.84	0.43
1:H:1836:ASP:O	1:H:1840:VAL:HG23	2.19	0.43
1:H:2258:LEU:HA	1:H:2261:ILE:CG2	2.48	0.43
1:H:353:TYR:HE2	1:H:397:LEU:HB2	1.84	0.43
1:I:1261:ASN:H	1:I:1287:ARG:NH1	2.17	0.43
1:I:1267:LEU:CD2	1:I:1275:SER:HB2	2.47	0.43
1:I:1260:LYS:CA	1:I:1287:ARG:HH12	2.32	0.43
1:I:1805:TYR:HD2	1:I:1814:TYR:O	2.02	0.43
1:H:2088:SER:OG	1:I:2205:GLN:OE1	2.34	0.43
1:J:137:TYR:CE2	1:J:139:ASP:HB2	2.52	0.43
1:J:1668:VAL:HG13	1:J:1669:VAL:H	1.84	0.43
1:F:2144:ILE:HG21	1:J:2144:ILE:HD12	1.99	0.43
1:J:2364:GLY:HA2	1:J:2377:PHE:HE2	1.84	0.43
1:J:983:THR:HG21	1:J:988:GLU:OE1	2.19	0.43
1:A:124:ARG:HB2	1:A:1911:ALA:HB1	2.01	0.43
1:A:1400:ASN:HB3	1:A:1402:LEU:N	2.28	0.43
1:A:278:MET:CE	1:A:1478:GLY:H	2.31	0.43
1:A:2117:LEU:HD23	1:A:2117:LEU:HA	1.83	0.43
1:A:707:VAL:O	1:A:711:VAL:HG23	2.19	0.43
1:B:1692:ILE:HD13	1:B:1707:VAL:HG21	2.00	0.43
1:A:2121:ALA:HB2	1:B:2172:MET:CB	2.48	0.43
1:B:2460:PHE:O	1:B:2461:GLN:C	2.57	0.43
1:C:1177:ILE:CD1	1:C:1195:ARG:HE	2.31	0.43
1:C:1719:THR:HG23	1:C:1721:TRP:HB2	2.01	0.43
1:C:276:LEU:HA	1:C:281:TYR:HD2	1.83	0.43
1:C:340:GLN:HA	1:C:360:LYS:HB3	2.00	0.43
1:C:822:LEU:HD23	1:C:822:LEU:HA	1.81	0.43
1:D:1360:ILE:HD13	1:D:1527:GLU:HA	2.00	0.43

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1656:GLY:HA2	1:D:1657:ASP:C	2.40	0.43
1:D:195:SER:HB3	1:D:198:THR:CG2	2.49	0.43
1:D:615:GLY:HA2	1:D:616:LYS:C	2.38	0.43
1:D:702:LEU:HD23	1:D:702:LEU:O	2.18	0.43
1:D:739:THR:HA	1:D:740:PRO:HD3	1.89	0.43
1:E:564:ARG:O	1:E:568:ILE:HG13	2.19	0.43
1:E:578:ILE:HG22	1:E:580:ASN:N	2.26	0.43
1:E:905:SER:HB2	1:E:910:PRO:HD3	2.01	0.43
1:F:1040:TYR:CG	1:F:1953:ASN:HB3	2.54	0.43
1:F:1930:ILE:HB	1:F:1931:PRO:HD3	2.01	0.43
1:F:276:LEU:HD23	1:F:437:LEU:HD13	2.00	0.43
1:G:2145:PHE:HB3	1:G:2146:GLY:HA2	2.01	0.43
1:G:2129:GLN:HG3	1:G:2164:VAL:HG21	2.00	0.43
1:H:1394:ASN:HD22	1:H:1480:ALA:HB1	1.83	0.43
1:I:1024:TYR:CD2	1:I:1034:VAL:HG21	2.54	0.43
1:I:1328:TYR:HB2	1:I:1368:LYS:HG2	2.00	0.43
1:I:1381:LEU:HB3	1:I:1523:PRO:HB2	2.01	0.43
1:I:414:LEU:HB2	1:I:415:PRO:HD2	2.01	0.43
1:J:1386:ILE:HG13	1:J:1410:TYR:HE1	1.84	0.43
1:J:1497:LYS:O	1:J:1499:GLN:HG3	2.18	0.43
1:J:1683:ASP:N	1:J:1683:ASP:OD1	2.48	0.43
1:J:2016:LEU:HD23	1:J:2443:ASN:HB3	2.01	0.43
1:J:271:ILE:HD13	1:J:952:ARG:HH22	1.84	0.43
1:A:1255:THR:CA	1:A:1296:THR:HG21	2.49	0.42
1:A:1560:GLU:HA	1:A:1560:GLU:OE2	2.18	0.42
1:C:1163:TYR:CE2	1:C:1245:LEU:HB2	2.53	0.42
1:C:1255:THR:HA	1:C:1296:THR:HG21	2.00	0.42
1:C:2256:GLY:HA3	1:D:698:ALA:HB2	2.00	0.42
1:C:456:ILE:HG23	1:C:496:LEU:HD11	2.00	0.42
1:D:2255:ARG:HG2	1:D:2255:ARG:O	2.18	0.42
1:C:2327:ARG:NH2	1:D:2470:LEU:HD23	2.34	0.42
1:E:1122:TYR:HD2	1:E:1146:LYS:HA	1.83	0.42
1:E:1551:ILE:HB	1:E:1572:ILE:HB	2.01	0.42
1:E:1085:PHE:HE2	1:E:1767:TYR:HB3	1.83	0.42
1:E:207:VAL:HG13	1:E:922:LEU:HD12	2.01	0.42
1:E:2247:ASN:HB2	1:E:2250:LEU:H	1.83	0.42
1:E:347:PRO:HA	1:E:353:TYR:CD1	2.50	0.42
1:D:892:GLN:HE22	1:E:541:GLY:C	2.22	0.42
1:F:1295:ASP:HB3	1:F:1301:ARG:HE	1.84	0.42
1:F:231:MET:CG	1:F:898:VAL:HG23	2.49	0.42
1:F:251:LEU:HD23	1:F:442:LYS:HB2	2.00	0.42

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1117:ASP:N	1:G:1211:THR:HG21	2.10	0.42
1:G:1361:HIS:CG	1:G:1525:PHE:HD2	2.37	0.42
1:G:1534:ALA:O	1:G:1535:LEU:HD23	2.19	0.42
1:G:2433:LEU:HD23	1:G:2433:LEU:HA	1.72	0.42
1:H:1408:TYR:HE1	1:H:1464:PRO:HA	1.82	0.42
1:H:2435:TYR:CE1	1:H:2475:ILE:HD13	2.54	0.42
1:I:71:ASN:HA	1:I:103:TYR:CZ	2.54	0.42
1:I:189:LEU:HD12	1:I:189:LEU:HA	1.67	0.42
1:G:1066:GLN:HG2	1:I:2178:LYS:NZ	2.34	0.42
1:J:1404:PHE:HB2	1:J:1473:MET:HE3	2.00	0.42
1:J:271:ILE:HG21	1:J:952:ARG:HH22	1.84	0.42
1:A:1326:ASP:OD2	1:A:1564:LYS:N	2.52	0.42
1:A:1784:LEU:HA	1:A:1784:LEU:HD23	1.81	0.42
1:A:1800:TRP:HD1	1:A:1815:GLN:O	2.02	0.42
1:A:1805:TYR:CZ	1:A:1817:ASN:HB2	2.53	0.42
1:A:2000:VAL:HG11	1:B:772:ASN:ND2	2.34	0.42
1:A:288:LEU:HD23	1:A:288:LEU:HA	1.80	0.42
1:A:206:ASN:ND2	1:A:919:ALA:HB1	2.35	0.42
1:B:564:ARG:O	1:B:568:ILE:HG13	2.19	0.42
1:B:739:THR:HA	1:B:740:PRO:HD3	1.88	0.42
1:B:769:THR:OG1	1:B:771:ILE:HG13	2.19	0.42
1:C:1264:MET:HB2	1:C:1283:SER:OG	2.19	0.42
1:C:1378:TYR:HE1	1:C:1454:ASP:HB3	1.84	0.42
1:C:2237:GLN:O	1:C:2240:PHE:HB3	2.19	0.42
1:C:371:LYS:HA	1:C:377:GLU:HA	2.01	0.42
1:D:1400:ASN:HB3	1:D:1402:LEU:HB2	2.01	0.42
1:D:192:PHE:HD2	1:D:198:THR:HG21	1.84	0.42
1:D:2046:ARG:HB3	1:D:2251:TYR:HE2	1.84	0.42
1:D:2291:PHE:CD2	1:D:2317:MET:HA	2.53	0.42
1:D:41:SER:HA	1:D:1552:ASP:OD2	2.19	0.42
1:D:557:ILE:HG22	1:D:558:ASP:O	2.19	0.42
1:D:901:ASP:HB3	1:D:904:GLN:HB3	1.99	0.42
1:E:1254:ASP:C	1:E:1256:LEU:N	2.71	0.42
1:E:1248:MET:CE	1:E:1286:TYR:HB2	2.49	0.42
1:E:2407:GLY:HA3	1:E:2515:ILE:HG23	2.01	0.42
1:E:778:LEU:HD22	1:E:786:PHE:HE1	1.84	0.42
1:E:986:ILE:O	1:E:990:ILE:HG13	2.18	0.42
1:F:1696:ASP:N	1:F:1696:ASP:OD2	2.51	0.42
1:F:251:LEU:HD13	1:F:446:LEU:HG	2.00	0.42
1:G:150:LEU:HB2	1:G:1905:PRO:HD2	2.01	0.42
1:F:1178:THR:O	1:G:2146:GLY:HA3	2.19	0.42

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:218:LEU:HD21	1:G:239:ILE:HG21	1.99	0.42
1:G:714:TRP:CD2	1:G:762:LEU:HD22	2.54	0.42
1:G:940:GLU:HG3	1:G:979:ALA:HB2	2.00	0.42
1:G:1803:SER:OG	1:H:1001:LEU:O	2.23	0.42
1:H:1468:LYS:O	1:H:1486:PRO:HG3	2.19	0.42
1:H:2203:LEU:O	1:H:2207:ASP:HB2	2.18	0.42
1:H:2336:SER:O	1:H:2340:VAL:HG23	2.20	0.42
1:H:2360:LEU:HD22	1:H:2375:LEU:CD2	2.49	0.42
1:I:1473:MET:HB2	1:I:1473:MET:HE3	1.88	0.42
1:I:2329:LEU:HB2	1:I:2515:ILE:HB	2.01	0.42
1:I:376:ARG:H	1:I:376:ARG:HG3	1.55	0.42
1:J:1683:ASP:HA	1:J:1684:THR:HA	1.80	0.42
1:J:201:HIS:CD2	1:J:912:TYR:CE2	3.07	0.42
1:J:260:ALA:HB1	1:J:434:TYR:HB2	2.00	0.42
1:A:1385:PHE:CB	1:A:1409:GLN:HA	2.49	0.42
1:A:1639:LYS:HB2	1:A:1694:LEU:O	2.19	0.42
1:A:2046:ARG:HB3	1:A:2251:TYR:CE2	2.54	0.42
1:A:42:TRP:CD1	1:A:42:TRP:O	2.69	0.42
1:B:1404:PHE:HB2	1:B:1473:MET:HE3	2.01	0.42
1:B:1972:HIS:HB2	1:B:1974:LEU:HD13	2.01	0.42
1:B:224:SER:HB2	1:B:879:GLN:HB3	2.01	0.42
1:B:2040:LEU:HA	1:B:2258:LEU:HD23	2.01	0.42
1:B:2357:ILE:O	1:B:2361:VAL:HG23	2.19	0.42
1:B:835:LEU:HD23	1:B:835:LEU:O	2.19	0.42
1:C:1237:ALA:O	1:C:1245:LEU:HG	2.18	0.42
1:C:1736:ASN:O	1:C:1739:SER:HB2	2.20	0.42
1:C:192:PHE:O	1:C:198:THR:HG23	2.19	0.42
1:B:1995:LEU:HD13	1:C:2231:GLN:CD	2.39	0.42
1:C:721:GLY:HA2	1:C:754:GLN:OE1	2.20	0.42
1:D:1027:ARG:NH1	1:D:1030:THR:HG21	2.35	0.42
1:D:1136:PHE:HD2	1:D:1603:THR:HG1	1.67	0.42
1:D:209:GLU:OE2	1:D:934:LEU:HA	2.18	0.42
1:E:1407:VAL:HG13	1:E:1423:LEU:HB2	2.01	0.42
1:E:161:THR:O	1:E:162:LEU:HB3	2.19	0.42
1:E:2100:GLY:HA2	1:E:2196:ARG:HD3	2.00	0.42
1:E:286:TYR:HB3	1:E:288:LEU:HG	2.01	0.42
1:E:670:LEU:HD23	1:E:671:LEU:HD23	2.01	0.42
1:F:1736:ASN:O	1:F:1739:SER:HB2	2.18	0.42
1:F:1752:ASN:HB3	1:G:1338:PRO:HB2	2.02	0.42
1:F:189:LEU:HD12	1:F:189:LEU:HA	1.82	0.42
1:F:2146:GLY:HA3	1:J:1178:THR:O	2.18	0.42

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:406:PHE:N	1:F:406:PHE:CD2	2.84	0.42
1:G:1179:LYS:HA	1:G:1179:LYS:HD2	1.62	0.42
1:F:2405:SER:N	1:G:2382:ASP:OD2	2.51	0.42
1:G:2424:GLY:O	1:G:2427:GLN:HB2	2.19	0.42
1:G:623:SER:HB2	1:G:626:GLN:CG	2.49	0.42
1:G:623:SER:HB2	1:G:626:GLN:HB2	2.01	0.42
1:H:1647:ILE:HD13	1:H:1661:PHE:CZ	2.54	0.42
1:H:1925:ALA:HB1	1:H:1931:PRO:HG3	2.02	0.42
1:H:192:PHE:O	1:H:198:THR:HG23	2.20	0.42
1:H:2256:GLY:HA3	1:I:698:ALA:HB2	2.01	0.42
1:H:464:VAL:HG22	1:H:477:LYS:HD2	2.01	0.42
1:I:1069:LEU:O	1:I:1788:ASN:ND2	2.51	0.42
1:H:2099:TYR:OH	1:I:2194:ILE:HG21	2.20	0.42
1:J:1158:ILE:HG13	1:J:1171:TRP:HB3	2.01	0.42
1:J:464:VAL:CG2	1:J:477:LYS:HD2	2.50	0.42
1:A:1333:TYR:CB	1:A:1360:ILE:HG13	2.49	0.42
1:A:1355:PRO:HB3	1:A:1555:PHE:CZ	2.55	0.42
1:A:1656:GLY:HA2	1:A:1657:ASP:HA	1.71	0.42
1:A:2105:GLU:HG3	1:A:2105:GLU:O	2.19	0.42
1:A:333:GLU:HG2	1:A:506:ARG:CG	2.49	0.42
1:A:952:ARG:HG3	1:A:953:GLN:HG3	2.01	0.42
1:B:1137:ALA:O	1:B:1138:ALA:HB3	2.20	0.42
1:B:1147:ILE:HD11	1:B:1151:ILE:HD12	2.01	0.42
1:B:1363:GLY:HA3	1:B:1369:ARG:HA	2.01	0.42
1:B:1760:PHE:CE2	1:B:1768:PHE:HB3	2.54	0.42
1:B:2422:LEU:O	1:B:2423:LEU:HD23	2.19	0.42
1:B:314:ILE:HD13	1:B:329:ARG:HG3	2.01	0.42
1:B:832:ALA:HB2	1:B:868:PHE:CE2	2.55	0.42
1:C:962:LYS:NZ	1:C:1398:SER:OG	2.43	0.42
1:C:99:ARG:HH11	1:C:1947:LEU:HB3	1.84	0.42
1:B:2330:GLU:CB	1:C:2459:GLN:HA	2.41	0.42
1:C:414:LEU:HB2	1:C:415:PRO:HD2	2.02	0.42
1:D:1779:VAL:HG11	1:D:1795:TRP:CE2	2.55	0.42
1:D:2117:LEU:HA	1:D:2117:LEU:HD23	1.77	0.42
1:D:2210:LEU:HA	1:D:2210:LEU:HD23	1.91	0.42
1:D:2273:CYS:HB3	1:D:2292:ILE:HD13	2.01	0.42
1:D:2422:LEU:O	1:D:2423:LEU:HD23	2.19	0.42
1:C:1906:ARG:NH1	1:D:389:ILE:HD11	2.35	0.42
1:E:1616:ARG:HH22	1:E:1628:GLU:HB2	1.84	0.42
1:E:2411:ARG:O	1:E:2514:THR:N	2.50	0.42
1:F:1470:TYR:HE2	1:F:1482:ASP:HB2	1.82	0.42

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1313:PRO:HG2	1:F:1573:PRO:HD2	2.01	0.42
1:F:353:TYR:CD2	1:F:397:LEU:HD12	2.55	0.42
1:F:663:LEU:HD13	1:F:668:LYS:HE3	2.01	0.42
1:G:1294:PHE:HA	1:G:1301:ARG:CB	2.50	0.42
1:G:1614:VAL:HG11	1:H:1166:ARG:HB2	2.01	0.42
1:G:697:ALA:HB2	1:G:708:ALA:HB2	2.01	0.42
1:H:1410:TYR:CZ	1:H:1464:PRO:HB3	2.54	0.42
1:H:170:LEU:HD13	1:H:182:TYR:HD2	1.84	0.42
1:H:1906:ARG:HD3	1:H:1908:ASP:HB3	2.00	0.42
1:H:2296:ALA:HB1	1:H:2309:THR:HB	2.00	0.42
1:H:41:SER:OG	1:H:41:SER:O	2.21	0.42
1:H:71:ASN:OD1	1:H:73:GLN:HG3	2.19	0.42
1:I:1138:ALA:HB2	1:I:1761:SER:O	2.19	0.42
1:I:2255:ARG:HG2	1:I:2255:ARG:O	2.19	0.42
1:I:707:VAL:O	1:I:711:VAL:HG23	2.19	0.42
1:I:972:LEU:HD23	1:I:972:LEU:HA	1.85	0.42
1:J:1088:VAL:HG11	1:J:1767:TYR:CE1	2.55	0.42
1:J:1381:LEU:HD22	1:J:1491:THR:CG2	2.49	0.42
1:J:164:LEU:HD23	1:J:164:LEU:HA	1.87	0.42
1:J:2497:GLN:O	1:J:2501:LEU:HG	2.20	0.42
1:J:640:TRP:CE3	1:J:802:ILE:HG22	2.54	0.42
1:A:2068:LEU:CD1	1:A:2227:LEU:HB3	2.49	0.42
1:A:2291:PHE:CD2	1:A:2317:MET:HA	2.54	0.42
1:A:333:GLU:HG2	1:A:506:ARG:HG3	2.01	0.42
1:A:503:ILE:HG13	1:A:586:SER:OG	2.19	0.42
1:B:1111:ILE:HG13	1:B:1160:PRO:HG3	2.01	0.42
1:B:201:HIS:HB3	1:B:204:TYR:HB3	2.00	0.42
1:B:296:PHE:CE1	1:B:444:ILE:HG12	2.55	0.42
1:C:1097:TYR:HB2	1:C:1160:PRO:O	2.20	0.42
1:C:2161:THR:O	1:C:2165:MET:HG2	2.19	0.42
1:C:2393:PHE:CE1	1:C:2482:LEU:HB2	2.55	0.42
1:D:1544:PHE:HA	1:D:1549:ALA:HB2	2.02	0.42
1:D:371:LYS:HB3	1:D:373:ASN:O	2.20	0.42
1:D:514:GLN:HA	1:D:517:ARG:NH1	2.34	0.42
1:D:822:LEU:HD23	1:D:822:LEU:HA	1.89	0.42
1:D:947:SER:HB2	1:D:975:ASN:HD22	1.83	0.42
1:E:1234:LEU:HD12	1:E:1248:MET:O	2.19	0.42
1:E:2063:LEU:HD23	1:E:2063:LEU:HA	1.83	0.42
1:E:2229:THR:O	1:E:2233:GLN:HG2	2.18	0.42
1:E:32:PHE:CE1	1:E:36:VAL:HG21	2.54	0.42
1:E:552:LYS:HD3	1:E:559:ASP:OD1	2.19	0.42

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:865:GLU:HG2	1:E:865:GLU:H	1.70	0.42
1:F:1721:TRP:HA	1:F:1740:ILE:HD12	2.00	0.42
1:F:1810:GLN:HE22	1:G:1321:ASP:CA	2.22	0.42
1:F:2099:TYR:CD2	1:F:2195:GLN:HB3	2.53	0.42
1:F:2207:ASP:O	1:F:2210:LEU:HB2	2.20	0.42
1:F:308:TYR:CE1	1:F:313:LEU:HB2	2.53	0.42
1:F:431:TYR:HB3	1:F:436:PHE:HB2	2.01	0.42
1:G:1024:TYR:CD2	1:G:1034:VAL:HG21	2.55	0.42
1:G:1124:ARG:HD2	1:G:1144:TRP:CZ2	2.54	0.42
1:G:195:SER:HB3	1:G:198:THR:CG2	2.49	0.42
1:G:1991:ASP:HA	1:G:1992:PRO:HD2	1.90	0.42
1:G:414:LEU:HB2	1:G:415:PRO:HD2	2.01	0.42
1:H:192:PHE:CE2	1:H:194:PRO:HG2	2.54	0.42
1:I:2161:THR:O	1:I:2165:MET:HG2	2.19	0.42
1:I:261:GLU:HA	1:I:434:TYR:CD1	2.54	0.42
1:J:1139:ASN:HD21	1:J:1829:SER:HB2	1.84	0.42
1:J:1163:TYR:HB3	1:J:1168:TYR:CE1	2.55	0.42
1:J:192:PHE:CZ	1:J:194:PRO:HG2	2.54	0.42
1:J:1975:SER:OG	1:J:1976:ILE:N	2.52	0.42
1:J:2136:ALA:HA	1:J:2156:ALA:HB1	2.01	0.42
1:J:2089:LYS:HB2	1:J:2206:ILE:HG21	2.02	0.42
1:J:272:GLU:O	1:J:275:SER:HB3	2.19	0.42
1:A:1403:MET:HG3	1:A:1405:TYR:CE2	2.54	0.42
1:A:432:ASN:HB3	1:A:435:SER:HB3	2.02	0.42
1:B:1261:ASN:H	1:B:1287:ARG:CZ	2.33	0.42
1:B:1717:ASP:OD2	1:B:1717:ASP:N	2.52	0.42
1:B:195:SER:HB3	1:B:198:THR:HG22	2.02	0.42
1:B:523:LEU:HA	1:B:523:LEU:HD13	1.86	0.42
1:B:822:LEU:HA	1:B:822:LEU:HD23	1.77	0.42
1:B:908:GLU:HG2	1:B:908:GLU:O	2.20	0.42
1:C:1784:LEU:HA	1:C:1784:LEU:HD23	1.92	0.42
1:C:189:LEU:HD12	1:C:189:LEU:HA	1.78	0.42
1:C:522:PRO:C	1:C:523:LEU:HD22	2.39	0.42
1:C:571:HIS:ND1	1:C:618:ASN:HB3	2.35	0.42
1:C:983:THR:HG21	1:C:988:GLU:OE1	2.19	0.42
1:D:1280:PRO:HA	1:D:1283:SER:HB3	2.00	0.42
1:D:1412:GLY:H	1:D:1415:SER:HB2	1.84	0.42
1:D:1655:HIS:HB3	1:D:1659:ARG:HA	2.01	0.42
1:D:2199:ALA:O	1:D:2202:GLU:HB3	2.19	0.42
1:D:2459:GLN:HG3	1:D:2460:PHE:O	2.19	0.42
1:D:589:TYR:CE2	1:D:593:LEU:HD11	2.55	0.42

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:908:GLU:N	1:D:908:GLU:OE1	2.53	0.42
1:E:1001:LEU:HD23	1:E:1001:LEU:HA	1.83	0.42
1:E:1649:PRO:HB3	1:E:1684:THR:HA	2.02	0.42
1:E:496:LEU:O	1:E:499:CYS:N	2.51	0.42
1:F:1170:LEU:HD23	1:F:1200:LEU:HA	2.01	0.42
1:F:1604:ARG:HH12	1:F:1634:GLU:HB3	1.84	0.42
1:F:1991:ASP:HA	1:F:1992:PRO:HD2	1.90	0.42
1:F:2431:ALA:HB3	1:F:2450:VAL:CG1	2.49	0.42
1:F:296:PHE:CE2	1:F:454:PRO:HG3	2.55	0.42
1:F:72:PRO:O	1:F:75:GLN:HG2	2.20	0.42
1:G:1597:GLN:HA	1:G:1601:TYR:O	2.19	0.42
1:G:1649:PRO:HB3	1:G:1684:THR:CA	2.40	0.42
1:G:1711:PHE:CE1	1:G:1713:LYS:HE2	2.55	0.42
1:G:2408:LYS:HD2	1:G:2408:LYS:HA	1.86	0.42
1:G:53:GLN:O	1:G:56:GLN:HB3	2.19	0.42
1:H:1096:ALA:HB3	1:H:1302:VAL:HG22	2.01	0.42
1:H:27:SER:HB3	1:H:31:GLU:OE1	2.20	0.42
1:H:967:LEU:HD23	1:H:975:ASN:ND2	2.35	0.42
1:I:1505:GLY:H	1:I:1542:LEU:HB2	1.84	0.42
1:I:2118:ARG:NH2	1:J:2177:ASP:OD1	2.53	0.42
1:I:336:THR:O	1:I:423:ALA:N	2.44	0.42
1:I:750:GLU:O	1:I:754:GLN:HG3	2.20	0.42
1:J:130:HIS:CD2	1:J:136:TYR:HB2	2.53	0.42
1:J:1468:LYS:O	1:J:1486:PRO:HG3	2.20	0.42
1:J:193:ARG:N	1:J:194:PRO:HD2	2.35	0.42
1:J:2190:GLN:O	1:J:2193:GLU:HB3	2.20	0.42
1:J:947:SER:CB	1:J:975:ASN:HD22	2.33	0.42
1:A:1040:TYR:CG	1:A:1953:ASN:HB3	2.54	0.42
1:A:1351:ILE:HG23	1:A:1537:ILE:HB	2.01	0.42
1:A:1736:ASN:O	1:A:1739:SER:HB2	2.19	0.42
1:A:2433:LEU:HB2	1:A:2448:LEU:HB3	2.01	0.42
1:A:2410:ARG:HE	1:A:2515:ILE:CD1	2.33	0.42
1:A:947:SER:HB2	1:A:975:ASN:HD22	1.84	0.42
1:B:1329:LEU:HD23	1:B:1375:MET:SD	2.60	0.42
1:B:1699:LEU:HD23	1:B:1699:LEU:O	2.19	0.42
1:B:81:ALA:N	1:B:1816:TRP:HH2	2.16	0.42
1:B:702:LEU:HD23	1:B:702:LEU:O	2.20	0.42
1:B:758:ALA:O	1:B:761:GLN:HB3	2.20	0.42
1:B:964:ARG:HE	1:B:975:ASN:ND2	2.18	0.42
1:C:1400:ASN:ND2	1:C:1478:GLY:O	2.52	0.42
1:C:1647:ILE:HD13	1:C:1661:PHE:CE1	2.54	0.42

*Continued on next page...*



*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:523:LEU:HA	1:C:523:LEU:HD13	1.93	0.42
1:D:1410:TYR:CE2	1:D:1464:PRO:HB3	2.55	0.42
1:D:1650:TYR:O	1:D:1651:ASN:CG	2.58	0.42
1:D:1683:ASP:HA	1:D:1684:THR:HA	1.82	0.42
1:D:2226:SER:O	1:D:2230:GLN:HG3	2.20	0.42
1:D:319:ASN:HB3	1:D:322:ASP:HB2	2.01	0.42
1:D:608:LEU:HA	1:D:608:LEU:HD23	1.92	0.42
1:E:1224:LEU:HD11	1:E:1249:PHE:HB3	2.01	0.42
1:D:1812:GLN:HA	1:E:1322:TYR:OH	2.19	0.42
1:E:1437:TRP:CZ3	1:E:1439:PRO:HG3	2.54	0.42
1:E:615:GLY:HA2	1:E:616:LYS:C	2.40	0.42
1:F:1122:TYR:CD2	1:F:1146:LYS:HA	2.54	0.42
1:F:1150:PRO:CB	1:H:2157:ILE:HG22	2.49	0.42
1:F:1844:ASP:HA	1:F:1845:PRO:HD3	1.82	0.42
1:F:610:ILE:O	1:F:613:GLY:HA3	2.19	0.42
1:G:1104:ASP:HA	1:G:1598:TRP:CZ2	2.52	0.42
1:G:15:GLN:HB3	1:G:16:CYS:HB2	2.02	0.42
1:G:192:PHE:HZ	1:G:953:GLN:NE2	2.18	0.42
1:G:480:LEU:HD23	1:G:480:LEU:HA	1.92	0.42
1:G:608:LEU:HD23	1:G:608:LEU:HA	1.84	0.42
1:H:141:ARG:HG3	1:H:142:ARG:N	2.34	0.42
1:H:1466:ASP:O	1:H:1469:GLN:HB2	2.19	0.42
1:H:1408:TYR:CD2	1:H:1467:LEU:HD12	2.54	0.42
1:H:1683:ASP:HA	1:H:1684:THR:HA	1.79	0.42
1:H:192:PHE:HE2	1:H:195:SER:HB2	1.84	0.42
1:H:353:TYR:CE2	1:H:402:ILE:HD11	2.55	0.42
1:H:455:THR:HG21	1:H:508:TYR:CD2	2.55	0.42
1:H:471:ASN:H	1:H:474:VAL:HB	1.85	0.42
1:I:1400:ASN:HB3	1:I:1402:LEU:HB2	2.01	0.42
1:I:1974:LEU:HA	1:I:1980:PRO:HA	2.00	0.42
1:I:2338:ALA:HB2	1:I:2506:ASP:CB	2.47	0.42
1:I:2419:LEU:HA	1:I:2419:LEU:HD23	1.87	0.42
1:I:951:ILE:HD11	1:I:967:LEU:HB2	2.02	0.42
1:J:71:ASN:ND2	1:J:1040:TYR:OH	2.53	0.42
1:J:1121:TYR:HB2	1:J:1147:ILE:HD11	2.02	0.42
1:J:2273:CYS:HB3	1:J:2292:ILE:HD13	2.00	0.42
1:J:2345:PRO:HG2	1:J:2348:ASN:HB2	2.02	0.42
1:J:784:GLU:HG3	1:J:784:GLU:H	1.45	0.42
1:J:830:LEU:HD21	1:J:835:LEU:HD12	2.01	0.42
1:A:1135:LYS:HE2	1:A:1135:LYS:HB3	1.84	0.42
1:A:1353:ILE:O	1:A:1535:LEU:N	2.53	0.42

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:308:TYR:CE2	1:A:344:GLU:HB3	2.55	0.42
1:A:371:LYS:HA	1:A:377:GLU:HA	2.01	0.42
1:A:706:ASN:HB3	1:A:773:GLU:OE1	2.19	0.42
1:A:832:ALA:C	1:A:834:GLN:H	2.22	0.42
1:B:1615:ALA:HA	1:C:1165:SER:HB2	2.01	0.42
1:B:482:LYS:HD2	1:B:485:MET:HE3	2.01	0.42
1:B:778:LEU:HA	1:B:781:THR:HG22	2.02	0.42
1:C:1039:TYR:O	1:C:1041:PRO:HD3	2.19	0.42
1:C:1561:ASP:OD2	1:C:1563:ARG:NH2	2.53	0.42
1:C:276:LEU:HA	1:C:281:TYR:CD2	2.54	0.42
1:C:615:GLY:HA2	1:C:616:LYS:C	2.39	0.42
1:C:714:TRP:HB3	1:C:762:LEU:HD13	2.02	0.42
1:D:1121:TYR:HB2	1:D:1147:ILE:HD11	2.02	0.42
1:D:1268:TYR:HE1	1:D:1278:MET:HG3	1.85	0.42
1:D:1650:TYR:O	1:D:1651:ASN:CB	2.68	0.42
1:D:1885:GLN:HA	1:D:1888:HIS:CD2	2.55	0.42
1:D:2291:PHE:CB	1:D:2317:MET:HG3	2.49	0.42
1:A:1205:TYR:HD1	1:E:1082:LEU:HB3	1.83	0.42
1:D:1752:ASN:HB3	1:E:1338:PRO:HB2	2.02	0.42
1:E:487:ARG:NE	1:E:635:ASN:HD21	2.17	0.42
1:F:125:GLU:HB3	1:F:1018:PHE:CE1	2.54	0.42
1:F:1268:TYR:OH	1:F:1286:TYR:OH	2.13	0.42
1:F:1385:PHE:HB3	1:F:1409:GLN:HA	2.00	0.42
1:F:2423:LEU:HD21	1:F:2500:MET:HA	2.00	0.42
1:F:276:LEU:HA	1:F:281:TYR:HD2	1.85	0.42
1:G:1093:VAL:HA	1:G:1111:ILE:O	2.20	0.42
1:G:2046:ARG:HB3	1:G:2251:TYR:CE2	2.55	0.42
1:G:2373:ASN:HA	1:G:2390:SER:O	2.19	0.42
1:G:488:TYR:CE1	1:G:597:ILE:HD12	2.54	0.42
1:G:784:GLU:H	1:G:784:GLU:HG3	1.42	0.42
1:H:1092:LYS:O	1:H:1112:GLY:HA2	2.20	0.42
1:H:1361:HIS:CG	1:H:1525:PHE:HD2	2.38	0.42
1:H:1400:ASN:HB3	1:H:1402:LEU:HB2	2.02	0.42
1:H:1838:ASP:O	1:H:1842:GLN:HG3	2.19	0.42
1:H:2190:GLN:O	1:H:2193:GLU:HB3	2.19	0.42
1:I:1268:TYR:OH	1:I:1286:TYR:OH	2.02	0.42
1:I:1353:ILE:HG22	1:I:1355:PRO:HD3	2.01	0.42
1:I:2175:GLU:OE2	1:I:2178:LYS:HD3	2.19	0.42
1:J:2431:ALA:HB3	1:J:2450:VAL:CG1	2.50	0.42
1:J:663:LEU:HD12	1:J:663:LEU:O	2.20	0.42
1:A:2183:GLU:OE1	1:A:2186:ARG:NH1	2.53	0.42

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1254:ASP:C	1:B:1256:LEU:N	2.71	0.42
1:B:494:THR:O	1:B:497:ILE:HG22	2.20	0.42
1:B:629:THR:HG23	1:B:632:ARG:NH1	2.35	0.42
1:B:693:ALA:HB3	1:B:694:PRO:HD3	2.01	0.42
1:C:1260:LYS:HA	1:C:1287:ARG:HH22	1.84	0.42
1:C:1159:ARG:NH2	1:C:1301:ARG:O	2.25	0.42
1:C:1819:ARG:O	1:C:1822:LEU:HB2	2.20	0.42
1:C:548:LYS:HG2	1:C:552:LYS:HE2	2.02	0.42
1:D:1385:PHE:CB	1:D:1409:GLN:HA	2.49	0.42
1:D:2111:GLU:OE1	1:E:2187:ARG:NH2	2.53	0.42
1:D:640:TRP:CD2	1:D:802:ILE:HG22	2.55	0.42
1:E:1602:ARG:HD2	1:E:1693:PRO:HB3	2.02	0.42
1:F:1267:LEU:HD23	1:F:1268:TYR:N	2.35	0.42
1:F:2089:LYS:NZ	1:F:2207:ASP:OD2	2.35	0.42
1:F:2421:ALA:HB2	1:F:2504:LEU:HD23	2.02	0.42
1:F:538:LEU:HD13	1:F:562:LEU:HG	2.01	0.42
1:F:559:ASP:HB2	1:J:890:ALA:HB2	2.00	0.42
1:F:714:TRP:CD2	1:F:762:LEU:HD22	2.55	0.42
1:G:1113:LEU:HD13	1:G:1121:TYR:CE2	2.55	0.42
1:G:2047:GLN:HA	1:G:2251:TYR:HD2	1.85	0.42
1:G:606:ASP:O	1:G:610:ILE:HG13	2.20	0.42
1:G:947:SER:HB2	1:G:975:ASN:HD22	1.84	0.42
1:H:1445:LEU:HD11	1:H:1467:LEU:HD11	2.01	0.42
1:H:1654:THR:HG22	1:H:1655:HIS:H	1.83	0.42
1:H:193:ARG:N	1:H:194:PRO:HD2	2.35	0.42
1:H:2414:GLN:HB3	1:H:2512:ARG:HD2	2.02	0.42
1:H:555:PHE:O	1:H:557:ILE:HG13	2.19	0.42
1:I:1696:ASP:N	1:I:1696:ASP:OD2	2.50	0.42
1:H:2147:PHE:CD2	1:I:2147:PHE:HE2	2.38	0.42
1:I:2271:ALA:O	1:I:2275:MET:HG3	2.19	0.42
1:I:300:ALA:CB	1:I:306:GLN:HE21	2.32	0.42
1:I:714:TRP:CE3	1:I:762:LEU:HD22	2.55	0.42
1:J:1021:TRP:CE2	1:J:1026:LYS:HG2	2.55	0.42
1:J:2286:ASP:OD2	1:J:2289:ALA:HB2	2.19	0.42
1:J:2460:PHE:O	1:J:2461:GLN:C	2.58	0.42
1:A:1385:PHE:HB3	1:A:1409:GLN:HA	2.02	0.42
1:A:2102:LEU:HB3	1:A:2192:TRP:CZ3	2.55	0.42
1:A:601:THR:HG22	1:A:604:GLU:CD	2.40	0.42
1:B:1138:ALA:HB2	1:B:1761:SER:O	2.20	0.42
1:B:209:GLU:OE2	1:B:934:LEU:HA	2.20	0.42
1:B:2414:GLN:HB3	1:B:2512:ARG:HD2	2.02	0.42

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2442:ALA:CB	1:B:2445:CYS:HB2	2.48	0.42
1:C:1248:MET:HE1	1:C:1286:TYR:HB2	2.02	0.42
1:C:2261:ILE:HD13	1:C:2261:ILE:HG21	1.80	0.42
1:C:2351:PHE:HB2	1:C:2356:GLU:HG3	2.01	0.42
1:C:534:GLU:HB2	1:C:580:ASN:ND2	2.34	0.42
1:C:784:GLU:HG3	1:C:784:GLU:H	1.35	0.42
1:C:911:THR:HG22	1:C:913:ALA:H	1.85	0.42
1:D:1163:TYR:CD2	1:D:1245:LEU:HB3	2.55	0.42
1:D:1966:ARG:HG2	1:D:1976:ILE:CD1	2.50	0.42
1:D:2175:GLU:OE2	1:D:2178:LYS:HD3	2.20	0.42
1:D:27:SER:HB3	1:D:31:GLU:OE1	2.20	0.42
1:D:331:THR:O	1:D:426:PHE:HA	2.19	0.42
1:D:964:ARG:HD2	1:D:975:ASN:HD21	1.85	0.42
1:D:167:GLU:OE1	1:D:985:ARG:NH2	2.52	0.42
1:E:2046:ARG:HB3	1:E:2251:TYR:CE2	2.55	0.42
1:E:2393:PHE:HZ	1:E:2482:LEU:HD12	1.85	0.42
1:E:41:SER:HA	1:E:1552:ASP:OD2	2.20	0.42
1:E:488:TYR:CD2	1:E:597:ILE:HB	2.54	0.42
1:F:1319:ARG:NH2	1:F:1333:TYR:HA	2.33	0.42
1:F:153:GLN:O	1:F:157:ILE:HG12	2.20	0.42
1:F:2042:ASN:ND2	1:F:2046:ARG:HD2	2.34	0.42
1:F:41:SER:O	1:F:42:TRP:HB3	2.19	0.42
1:F:575:ASP:N	1:F:575:ASP:OD2	2.53	0.42
1:G:1225:LYS:HD2	1:G:1252:GLN:CD	2.40	0.42
1:G:1357:LEU:HG	1:G:1358:ARG:N	2.34	0.42
1:G:2033:LEU:HD22	1:G:2307:GLY:CA	2.50	0.42
1:H:1850:VAL:O	1:H:1853:PHE:HB3	2.20	0.42
1:H:1885:GLN:HA	1:H:1888:HIS:NE2	2.35	0.42
1:I:1092:LYS:O	1:I:1112:GLY:HA2	2.20	0.42
1:I:1513:ALA:HA	1:I:1532:PHE:CE2	2.54	0.42
1:I:23:ASP:O	1:I:26:HIS:ND1	2.53	0.42
1:I:333:GLU:HG2	1:I:506:ARG:CG	2.50	0.42
1:I:771:ILE:HD11	1:I:804:LEU:HD13	2.01	0.42
1:I:905:SER:HB2	1:I:910:PRO:HD3	2.01	0.42
1:J:1101:ILE:HD11	1:J:1311:GLU:HB2	2.02	0.42
1:J:1170:LEU:HD21	1:J:1200:LEU:HG	2.01	0.42
1:J:481:THR:O	1:J:485:MET:HG2	2.19	0.42
1:J:725:MET:HG2	1:J:755:TYR:HB2	2.02	0.42
1:A:1363:GLY:HA3	1:A:1369:ARG:HA	2.01	0.41
1:A:1422:LEU:HD22	1:A:1445:LEU:HD12	2.02	0.41
1:A:1639:LYS:CG	1:A:1694:LEU:HB2	2.46	0.41

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:36:VAL:HG12	1:A:40:LEU:HB2	2.02	0.41
1:A:947:SER:CB	1:A:975:ASN:HD22	2.33	0.41
1:A:995:LEU:HA	1:A:995:LEU:HD23	1.82	0.41
1:B:1280:PRO:HA	1:B:1283:SER:HB3	2.00	0.41
1:B:1656:GLY:HA2	1:B:1657:ASP:HA	1.80	0.41
1:B:1671:ASN:OD1	1:B:1699:LEU:HD22	2.19	0.41
1:B:2009:LEU:HD12	1:B:2009:LEU:HA	1.87	0.41
1:B:2325:ASP:OD1	1:B:2326:LYS:N	2.53	0.41
1:C:1821:LEU:HD23	1:C:1845:PRO:HB3	2.00	0.41
1:C:2063:LEU:HD23	1:C:2063:LEU:HA	1.93	0.41
1:C:371:LYS:HB3	1:C:373:ASN:O	2.20	0.41
1:D:2042:ASN:OD1	1:D:2046:ARG:HD2	2.20	0.41
1:D:1208:THR:HG21	1:E:2126:THR:HG22	2.02	0.41
1:E:2058:ASN:OD1	1:E:2238:LEU:HD11	2.19	0.41
1:E:2281:ARG:HD3	1:E:2289:ALA:O	2.20	0.41
1:E:2412:ILE:HG13	1:E:2475:ILE:O	2.19	0.41
1:E:28:SER:OG	1:E:31:GLU:HG3	2.19	0.41
1:F:1124:ARG:HD2	1:F:1144:TRP:CZ2	2.55	0.41
1:F:1599:GLN:HB3	1:F:1674:HIS:CE1	2.54	0.41
1:F:1640:GLY:HA2	1:F:1691:PHE:HE1	1.85	0.41
1:F:1821:LEU:CD2	1:F:1845:PRO:HB3	2.50	0.41
1:G:1639:LYS:HB2	1:G:1694:LEU:O	2.20	0.41
1:G:1720:TRP:HE1	1:G:1739:SER:H	1.68	0.41
1:G:18:PHE:HB3	1:G:21:LEU:HB3	2.02	0.41
1:G:245:PRO:O	1:G:248:PHE:HB3	2.20	0.41
1:G:714:TRP:CE3	1:G:762:LEU:HD22	2.55	0.41
1:H:1779:VAL:HG11	1:H:1795:TRP:CE2	2.54	0.41
1:H:2448:LEU:HG	1:H:2458:GLY:HA3	2.01	0.41
1:H:2409:ILE:CD1	1:H:2516:LYS:HG3	2.50	0.41
1:H:355:LEU:HD23	1:H:370:ILE:HD13	2.01	0.41
1:H:41:SER:O	1:H:42:TRP:HB2	2.19	0.41
1:H:733:TRP:CD2	1:H:752:ILE:HD12	2.55	0.41
1:I:1887:LEU:HA	1:I:1887:LEU:HD23	1.91	0.41
1:I:1975:SER:OG	1:I:1976:ILE:N	2.53	0.41
1:I:607:LEU:HD22	1:I:652:PHE:CE2	2.54	0.41
1:I:71:ASN:HA	1:I:72:PRO:HD3	1.78	0.41
1:J:1777:MET:HE1	1:J:1852:THR:HG23	2.02	0.41
1:I:2059:GLN:HE22	1:J:2237:GLN:HE21	1.67	0.41
1:J:693:ALA:HB3	1:J:694:PRO:HD3	2.01	0.41
1:J:896:ALA:O	1:J:900:LEU:HG	2.20	0.41
1:A:1621:ILE:HA	1:A:1624:ILE:HG13	2.02	0.41

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1797:LYS:O	1:A:1805:TYR:OH	2.24	0.41
1:A:2420:PRO:HD2	1:A:2506:ASP:O	2.19	0.41
1:A:71:ASN:HA	1:A:72:PRO:HD3	1.69	0.41
1:B:1069:LEU:HD13	1:B:1786:GLU:HG3	2.02	0.41
1:B:1710:THR:HG23	1:B:1710:THR:O	2.21	0.41
1:B:1783:LEU:HD13	1:B:1791:GLU:HB3	2.02	0.41
1:B:2337:LEU:HG	1:B:2507:ILE:HB	2.01	0.41
1:B:566:LEU:HD21	1:B:573:ASN:HD22	1.85	0.41
1:B:760:ALA:O	1:B:763:GLU:HB3	2.20	0.41
1:C:1225:LYS:H	1:C:1225:LYS:HG2	1.65	0.41
1:C:1494:SER:HA	1:C:1495:PRO:HD3	1.91	0.41
1:C:2118:ARG:NH1	1:C:2177:ASP:HB3	2.35	0.41
1:C:298:GLY:HA2	1:C:309:SER:OG	2.20	0.41
1:C:372:LEU:HD23	1:C:373:ASN:OD1	2.20	0.41
1:D:71:ASN:HA	1:D:103:TYR:CZ	2.55	0.41
1:D:1668:VAL:HG21	1:D:1693:PRO:HG2	2.02	0.41
1:D:193:ARG:N	1:D:194:PRO:CD	2.84	0.41
1:D:1868:TYR:CG	1:D:1976:ILE:HG12	2.55	0.41
1:D:497:ILE:HG21	1:D:589:TYR:CD2	2.55	0.41
1:E:1491:THR:HG21	1:E:1525:PHE:CE2	2.55	0.41
1:E:109:VAL:CG2	1:E:152:GLN:HA	2.50	0.41
1:E:1790:ASP:OD1	1:E:1863:ARG:NH2	2.53	0.41
1:E:2430:GLN:N	1:E:2497:GLN:OE1	2.49	0.41
1:E:2497:GLN:O	1:E:2501:LEU:HG	2.19	0.41
1:E:353:TYR:CE2	1:E:397:LEU:HB2	2.55	0.41
1:E:433:GLN:HG3	1:E:434:TYR:CD2	2.55	0.41
1:F:1355:PRO:HG2	1:F:1500:ILE:HD13	2.00	0.41
1:F:1773:TYR:O	1:F:1776:PRO:HD2	2.20	0.41
1:F:195:SER:HB3	1:F:198:THR:CG2	2.50	0.41
1:F:2000:VAL:HG21	1:G:772:ASN:CG	2.41	0.41
1:F:2147:PHE:CD2	1:G:2147:PHE:HE2	2.38	0.41
1:F:432:ASN:HB3	1:F:435:SER:HB3	2.02	0.41
1:F:608:LEU:O	1:F:612:VAL:HG23	2.20	0.41
1:G:1289:ASN:HB2	1:G:1306:TYR:CE2	2.55	0.41
1:G:2199:ALA:O	1:G:2202:GLU:HB3	2.19	0.41
1:G:734:LEU:HD23	1:G:734:LEU:HA	1.84	0.41
1:G:845:LEU:HD21	1:G:881:VAL:HG13	2.03	0.41
1:G:897:LEU:HD21	1:G:922:LEU:HD11	2.02	0.41
1:G:962:LYS:HG3	1:G:1401:LYS:HG2	2.01	0.41
1:H:1116:THR:HG22	1:H:1118:ALA:H	1.85	0.41
1:H:1138:ALA:HB2	1:H:1761:SER:O	2.20	0.41

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:2117:LEU:HD23	1:H:2117:LEU:HA	1.87	0.41
1:H:2244:LYS:HE2	1:H:2246:SER:O	2.20	0.41
1:H:772:ASN:OD1	1:H:773:GLU:N	2.53	0.41
1:I:1639:LYS:NZ	1:I:1696:ASP:HA	2.35	0.41
1:I:1711:PHE:HD1	1:I:1713:LYS:CG	2.33	0.41
1:I:1844:ASP:HA	1:I:1845:PRO:HD3	1.88	0.41
1:I:2337:LEU:HG	1:I:2507:ILE:HB	2.02	0.41
1:I:283:LYS:HB2	1:I:293:LEU:HD22	2.02	0.41
1:I:615:GLY:HA2	1:I:616:LYS:C	2.41	0.41
1:I:719:GLN:HA	1:I:725:MET:O	2.19	0.41
1:J:111:SER:OG	1:J:114:SER:N	2.53	0.41
1:J:1257:ASP:OD1	1:J:1258:SER:N	2.46	0.41
1:J:1779:VAL:HG11	1:J:1795:TRP:CD2	2.55	0.41
1:J:496:LEU:O	1:J:499:CYS:N	2.48	0.41
1:A:1001:LEU:C	1:A:1003:ASN:H	2.23	0.41
1:A:1648:PRO:HA	1:A:1649:PRO:HD3	1.69	0.41
1:A:2377:PHE:HE1	1:A:2387:LEU:HD12	1.85	0.41
1:A:2399:ARG:NH2	1:A:2410:ARG:H	2.19	0.41
1:A:610:ILE:O	1:A:613:GLY:HA3	2.20	0.41
1:A:693:ALA:HB3	1:A:694:PRO:HD3	2.02	0.41
1:A:725:MET:HG2	1:A:755:TYR:HB2	2.01	0.41
1:A:784:GLU:H	1:A:784:GLU:HG3	1.27	0.41
1:B:1112:GLY:O	1:B:1121:TYR:HA	2.20	0.41
1:B:1683:ASP:HA	1:B:1684:THR:HA	1.74	0.41
1:B:1625:LEU:HD12	1:B:1798:TYR:CG	2.55	0.41
1:B:2105:GLU:HG3	1:B:2105:GLU:O	2.20	0.41
1:B:2108:ASN:ND2	1:C:2183:GLU:OE1	2.53	0.41
1:B:193:ARG:HD2	1:B:246:GLU:OE1	2.20	0.41
1:B:308:TYR:CD1	1:B:313:LEU:HB2	2.55	0.41
1:B:737:LYS:HB3	1:B:746:VAL:HG21	2.00	0.41
1:C:1117:ASP:OD1	1:C:1118:ALA:N	2.53	0.41
1:C:1153:PRO:HB3	1:C:1171:TRP:CD1	2.55	0.41
1:C:1178:THR:HB	1:D:2146:GLY:H	1.84	0.41
1:C:1790:ASP:OD1	1:C:1863:ARG:NH2	2.53	0.41
1:C:607:LEU:HD22	1:C:652:PHE:CE2	2.55	0.41
1:C:873:SER:O	1:C:877:ILE:HG13	2.20	0.41
1:D:1375:MET:HE3	1:D:1375:MET:HB2	1.93	0.41
1:D:1559:ALA:HB2	1:D:1565:LEU:HD21	2.01	0.41
1:D:1074:VAL:HG21	1:D:1779:VAL:HG13	2.01	0.41
1:D:2040:LEU:HB2	1:D:2258:LEU:HD22	2.02	0.41
1:E:1284:ASN:HA	1:E:1287:ARG:HD2	2.02	0.41

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1394:ASN:ND2	1:E:1480:ALA:HB1	2.36	0.41
1:E:1400:ASN:HB3	1:E:1402:LEU:HB2	2.02	0.41
1:E:2067:ASN:O	1:E:2070:ILE:HB	2.21	0.41
1:E:687:ASP:HB3	1:E:690:HIS:CB	2.50	0.41
1:F:1147:ILE:HD11	1:F:1151:ILE:HD12	2.02	0.41
1:F:1494:SER:HB2	1:F:1497:LYS:CG	2.50	0.41
1:F:192:PHE:CZ	1:F:194:PRO:HG2	2.55	0.41
1:F:2102:LEU:HB3	1:F:2192:TRP:CE3	2.55	0.41
1:F:494:THR:O	1:F:497:ILE:HG22	2.20	0.41
1:F:553:ARG:HD2	1:F:553:ARG:HA	1.90	0.41
1:F:930:GLN:HA	1:F:933:THR:HG22	2.02	0.41
1:G:1385:PHE:HB3	1:G:1409:GLN:HA	2.02	0.41
1:G:1704:HIS:CD2	1:G:1726:VAL:HG23	2.52	0.41
1:G:2106:ASN:HB2	1:G:2189:ARG:HH12	1.85	0.41
1:G:2220:ALA:O	1:G:2223:GLN:HB3	2.20	0.41
1:G:158:GLU:HB3	1:G:982:LYS:HE2	2.02	0.41
1:H:1147:ILE:HD11	1:H:1151:ILE:HD12	2.02	0.41
1:H:1200:LEU:HD23	1:H:1201:ALA:N	2.35	0.41
1:H:1295:ASP:HB3	1:H:1301:ARG:HE	1.84	0.41
1:H:1085:PHE:HE2	1:H:1767:TYR:HB3	1.85	0.41
1:H:2009:LEU:HD12	1:H:2009:LEU:HA	1.86	0.41
1:H:283:LYS:HG3	1:H:288:LEU:O	2.20	0.41
1:I:1090:ASN:HD21	1:I:1610:ALA:HB3	1.86	0.41
1:I:355:LEU:O	1:I:392:SER:HA	2.20	0.41
1:I:593:LEU:HA	1:I:593:LEU:HD23	1.80	0.41
1:J:1445:LEU:HD11	1:J:1467:LEU:HD11	2.01	0.41
1:J:2004:GLN:H	1:J:2300:THR:CG2	2.33	0.41
1:J:2486:PHE:HA	1:J:2487:PRO:HD3	1.90	0.41
1:J:406:PHE:CZ	1:J:426:PHE:HB2	2.55	0.41
1:J:330:ILE:HG12	1:J:428:VAL:HB	2.02	0.41
1:A:1045:ILE:HD11	1:A:1848:TYR:HE1	1.85	0.41
1:A:1291:TYR:C	1:A:1293:GLN:H	2.24	0.41
1:A:1386:ILE:HD12	1:A:1408:TYR:HD1	1.84	0.41
1:A:1445:LEU:HD11	1:A:1467:LEU:HD11	2.02	0.41
1:A:2422:LEU:O	1:A:2423:LEU:HD23	2.20	0.41
1:A:777:ARG:O	1:A:781:THR:HG22	2.20	0.41
1:B:138:LEU:N	1:B:138:LEU:HD12	2.34	0.41
1:B:193:ARG:N	1:B:194:PRO:CD	2.83	0.41
1:B:1991:ASP:HA	1:B:1992:PRO:HD2	1.87	0.41
1:B:534:GLU:O	1:B:580:ASN:HB2	2.20	0.41
1:B:552:LYS:HD3	1:B:559:ASP:OD1	2.21	0.41

*Continued on next page...*



*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:130:HIS:CD2	1:C:136:TYR:HB2	2.55	0.41
1:C:123:TYR:CG	1:C:1907:LEU:HD21	2.54	0.41
1:C:1973:ASN:O	1:C:1981:LEU:HD13	2.20	0.41
1:C:336:THR:HA	1:C:337:ASN:HA	1.74	0.41
1:C:552:LYS:HD3	1:C:559:ASP:OD1	2.21	0.41
1:C:604:GLU:HB3	1:C:648:VAL:HG21	2.02	0.41
1:C:832:ALA:HB2	1:C:868:PHE:CE2	2.55	0.41
1:D:1616:ARG:NH2	1:D:1628:GLU:HB2	2.34	0.41
1:D:733:TRP:CZ3	1:D:738:TYR:HB2	2.55	0.41
1:D:707:VAL:HG23	1:D:773:GLU:OE1	2.20	0.41
1:E:345:LEU:HD11	1:E:353:TYR:HB3	2.00	0.41
1:E:494:THR:HG23	1:E:593:LEU:HD13	2.01	0.41
1:E:145:LEU:HD13	1:E:993:ILE:HD11	2.02	0.41
1:F:118:TYR:HB2	1:F:1031:TRP:CZ3	2.55	0.41
1:F:1286:TYR:O	1:F:1290:SER:OG	2.34	0.41
1:F:1367:GLN:HG3	1:F:1368:LYS:HD2	2.02	0.41
1:F:746:VAL:HG12	1:F:748:THR:H	1.86	0.41
1:G:1088:VAL:HG11	1:G:1767:TYR:CE1	2.55	0.41
1:F:90:ILE:HA	1:G:1452:ILE:HD12	2.02	0.41
1:G:1732:ILE:HG22	1:G:1733:VAL:N	2.35	0.41
1:G:2063:LEU:HA	1:G:2063:LEU:HD23	1.81	0.41
1:F:2073:LYS:NZ	1:G:2218:GLU:HB3	2.35	0.41
1:G:86:ASN:O	1:G:90:ILE:HG13	2.20	0.41
1:F:1972:HIS:HA	1:G:978:SER:HG	1.85	0.41
1:H:1416:GLY:HA2	1:H:1417:LEU:HA	1.45	0.41
1:H:1437:TRP:HD1	1:H:1444:SER:HB3	1.86	0.41
1:H:1750:LEU:HA	1:H:1750:LEU:HD23	1.93	0.41
1:H:1811:ILE:HD11	1:I:1010:SER:HB3	2.02	0.41
1:H:2214:ALA:O	1:H:2217:ARG:HB3	2.20	0.41
1:H:2433:LEU:HA	1:H:2433:LEU:HD23	1.87	0.41
1:H:772:ASN:HD22	1:H:822:LEU:HD12	1.85	0.41
1:I:1371:GLN:O	1:I:1374:LEU:HB2	2.20	0.41
1:I:2321:HIS:ND1	1:I:2322:LEU:HD23	2.35	0.41
1:I:348:PHE:CE1	1:I:354:ARG:HD3	2.56	0.41
1:I:659:TYR:CE2	1:I:758:ALA:HA	2.55	0.41
1:J:123:TYR:HE1	1:J:138:LEU:HD22	1.85	0.41
1:J:1400:ASN:HB3	1:J:1402:LEU:HB2	2.03	0.41
1:J:2070:ILE:HA	1:J:2070:ILE:HD13	1.92	0.41
1:J:2040:LEU:HD23	1:J:2258:LEU:HB3	2.01	0.41
1:J:2337:LEU:HD22	1:J:2391:VAL:HG21	2.03	0.41
1:A:105:ALA:HB2	1:A:1896:LEU:CD1	2.50	0.41

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1770:GLU:HA	1:A:1774:TYR:HB2	2.02	0.41
1:A:2058:ASN:OD1	1:A:2238:LEU:HD11	2.21	0.41
1:A:260:ALA:HB1	1:A:434:TYR:HB2	2.01	0.41
1:A:545:ASP:HB3	1:A:547:ARG:HG3	2.03	0.41
1:B:103:TYR:CE1	1:B:1950:PRO:HB2	2.54	0.41
1:B:1408:TYR:CD2	1:B:1467:LEU:HD12	2.55	0.41
1:B:1683:ASP:OD1	1:B:1683:ASP:N	2.54	0.41
1:B:2059:GLN:HB2	1:C:2233:GLN:CD	2.41	0.41
1:C:1599:GLN:HB3	1:C:1674:HIS:HE1	1.85	0.41
1:C:654:MET:SD	1:C:764:MET:HE2	2.61	0.41
1:C:711:VAL:HG12	1:C:759:LEU:HD22	2.01	0.41
1:D:1253:GLN:O	1:D:1296:THR:HB	2.19	0.41
1:D:1385:PHE:HB3	1:D:1409:GLN:HA	2.03	0.41
1:D:2059:GLN:HB2	1:E:2233:GLN:NE2	2.36	0.41
1:D:2213:LEU:HD13	1:D:2216:ARG:NH2	2.34	0.41
1:D:273:PRO:HG3	1:D:434:TYR:HE2	1.85	0.41
1:D:725:MET:HG2	1:D:755:TYR:HB2	2.03	0.41
1:E:1560:GLU:HA	1:E:1560:GLU:OE2	2.20	0.41
1:E:749:GLN:O	1:E:753:VAL:N	2.40	0.41
1:F:1041:PRO:HG2	1:F:1847:HIS:ND1	2.36	0.41
1:F:1051:ILE:HA	1:F:1052:GLY:HA2	1.49	0.41
1:F:1188:TYR:HH	1:J:1188:TYR:HD1	1.69	0.41
1:F:1416:GLY:HA2	1:F:1417:LEU:HA	1.50	0.41
1:F:1683:ASP:N	1:F:1683:ASP:OD1	2.53	0.41
1:F:1057:MET:CE	1:F:1774:TYR:HB3	2.51	0.41
1:F:26:HIS:HE1	1:F:1917:ASN:OD1	2.03	0.41
1:F:341:MET:SD	1:F:343:VAL:HG23	2.61	0.41
1:F:905:SER:CB	1:F:910:PRO:HD3	2.50	0.41
1:G:1338:PRO:HD2	1:G:1354:SER:O	2.20	0.41
1:G:2255:ARG:HG2	1:G:2255:ARG:O	2.20	0.41
1:G:951:ILE:HD11	1:G:967:LEU:HB2	2.02	0.41
1:H:1050:ARG:HD3	1:H:1774:TYR:CZ	2.55	0.41
1:H:1069:LEU:HA	1:H:1069:LEU:HD23	1.90	0.41
1:H:1280:PRO:O	1:H:1284:ASN:ND2	2.51	0.41
1:H:1732:ILE:HG22	1:H:1733:VAL:N	2.36	0.41
1:H:193:ARG:N	1:H:194:PRO:CD	2.84	0.41
1:H:2329:LEU:HD11	1:H:2406:LEU:HD22	2.03	0.41
1:H:483:TYR:OH	1:H:487:ARG:HD2	2.21	0.41
1:I:1224:LEU:HD11	1:I:1249:PHE:HB3	2.02	0.41
1:I:1291:TYR:C	1:I:1293:GLN:N	2.73	0.41
1:I:1782:ARG:HA	1:I:1782:ARG:HD2	1.85	0.41

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:220:GLN:HA	1:I:223:ALA:HB3	2.03	0.41
1:J:520:ASN:HD21	1:J:528:TYR:N	2.18	0.41
1:J:586:SER:O	1:J:590:ILE:HG13	2.20	0.41
1:J:772:ASN:OD1	1:J:773:GLU:N	2.54	0.41
1:A:1121:TYR:HB2	1:A:1147:ILE:HD11	2.02	0.41
1:A:1157:THR:HG21	1:A:1172:LEU:HB3	2.02	0.41
1:A:1683:ASP:HA	1:A:1684:THR:HA	1.67	0.41
1:A:702:LEU:HD12	1:E:2248:GLN:NE2	2.36	0.41
1:B:1505:GLY:H	1:B:1542:LEU:HB3	1.85	0.41
1:B:537:ASP:OD2	1:B:539:ASN:HB2	2.21	0.41
1:B:734:LEU:HD23	1:B:734:LEU:HA	1.84	0.41
1:C:2202:GLU:O	1:C:2205:GLN:HB3	2.20	0.41
1:C:357:TYR:CE1	1:C:370:ILE:HD11	2.56	0.41
1:D:1378:TYR:CD1	1:D:1423:LEU:HD22	2.56	0.41
1:D:1732:ILE:HG22	1:D:1733:VAL:N	2.36	0.41
1:D:2103:TYR:CE1	1:D:2193:GLU:HB2	2.54	0.41
1:C:2330:GLU:HG2	1:D:2460:PHE:CD2	2.56	0.41
1:D:358:LYS:HD3	1:D:390:GLU:HG2	2.02	0.41
1:E:129:LEU:HD11	1:E:1018:PHE:CE2	2.56	0.41
1:E:1122:TYR:CD2	1:E:1146:LYS:HA	2.55	0.41
1:E:1670:ASP:OD1	1:E:1672:ASN:HB2	2.21	0.41
1:E:1825:THR:O	1:E:1827:TRP:N	2.50	0.41
1:E:200:TYR:CE1	1:E:205:GLU:HG3	2.56	0.41
1:E:2433:LEU:HB2	1:E:2448:LEU:HB3	2.01	0.41
1:E:414:LEU:HB2	1:E:415:PRO:HD2	2.02	0.41
1:E:546:TRP:O	1:E:550:ILE:HG13	2.21	0.41
1:E:714:TRP:CD1	1:E:718:LEU:HG	2.56	0.41
1:F:1155:LYS:HE3	1:F:1155:LYS:HB2	1.72	0.41
1:F:1641:PHE:HD1	1:F:1692:ILE:HB	1.86	0.41
1:F:1794:ARG:NH2	1:F:1798:TYR:OH	2.54	0.41
1:F:2291:PHE:CG	1:F:2317:MET:HG3	2.56	0.41
1:F:2291:PHE:CD2	1:F:2317:MET:HA	2.56	0.41
1:F:2458:GLY:O	1:F:2459:GLN:HG2	2.19	0.41
1:F:306:GLN:OE1	1:F:315:THR:HG22	2.20	0.41
1:F:406:PHE:HE2	1:F:428:VAL:HG12	1.86	0.41
1:G:1375:MET:SD	1:G:1385:PHE:HE1	2.43	0.41
1:G:194:PRO:O	1:G:285:TYR:OH	2.24	0.41
1:H:2129:GLN:HG3	1:H:2164:VAL:CG2	2.51	0.41
1:H:808:ALA:O	1:H:812:ASN:ND2	2.52	0.41
1:I:1071:ALA:O	1:I:1075:GLU:HG3	2.21	0.41
1:I:1097:TYR:CE1	1:I:1161:VAL:HG23	2.55	0.41

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:1334:ASN:HA	1:J:1568:GLU:OE1	2.21	0.41
1:J:1836:ASP:HB3	1:J:1839:ALA:HB3	2.01	0.41
1:J:192:PHE:CE2	1:J:194:PRO:HG2	2.56	0.41
1:J:2144:ILE:HG23	1:J:2149:GLY:O	2.20	0.41
1:I:2316:GLN:HG2	1:J:2268:LEU:HD11	2.03	0.41
1:J:2501:LEU:HA	1:J:2504:LEU:HD12	2.01	0.41
1:J:378:LEU:HD13	1:J:395:ILE:HD13	2.01	0.41
1:J:398:ASN:ND2	1:J:400:ALA:H	2.19	0.41
1:A:608:LEU:HA	1:A:608:LEU:HD23	1.90	0.41
1:A:776:PHE:O	1:A:780:VAL:HG12	2.20	0.41
1:A:950:TYR:O	1:A:955:ALA:HB2	2.21	0.41
1:B:1092:LYS:O	1:B:1112:GLY:HA2	2.20	0.41
1:B:1312:ILE:HD13	1:B:1351:ILE:HD12	2.02	0.41
1:B:1797:LYS:HG3	1:B:1801:SER:HB3	2.03	0.41
1:B:1805:TYR:CZ	1:B:1817:ASN:HB2	2.55	0.41
1:B:276:LEU:HA	1:B:281:TYR:CD2	2.55	0.41
1:C:1088:VAL:HG11	1:C:1767:TYR:CZ	2.55	0.41
1:C:1247:VAL:HG13	1:C:1267:LEU:HB3	2.03	0.41
1:C:1368:LYS:O	1:C:1372:CYS:HB2	2.21	0.41
1:B:1995:LEU:HD13	1:C:2231:GLN:NE2	2.36	0.41
1:D:1082:LEU:HA	1:D:1082:LEU:HD23	1.83	0.41
1:D:1261:ASN:H	1:D:1287:ARG:CZ	2.33	0.41
1:D:1255:THR:CA	1:D:1296:THR:HG21	2.41	0.41
1:D:1711:PHE:HD1	1:D:1713:LYS:HG2	1.85	0.41
1:D:2329:LEU:HB3	1:E:2449:ALA:HB2	2.02	0.41
1:D:2360:LEU:HD22	1:D:2375:LEU:CD2	2.50	0.41
1:D:471:ASN:HB3	1:D:474:VAL:HG23	2.02	0.41
1:D:709:HIS:CE1	1:D:777:ARG:HH22	2.39	0.41
1:E:2378:GLY:HA2	1:E:2388:GLN:NE2	2.36	0.41
1:E:371:LYS:HA	1:E:377:GLU:HA	2.03	0.41
1:E:567:LYS:HA	1:E:567:LYS:HD3	1.91	0.41
1:E:967:LEU:HD23	1:E:975:ASN:ND2	2.36	0.41
1:F:1096:ALA:HB3	1:F:1302:VAL:HG22	2.02	0.41
1:F:1711:PHE:HE2	1:F:1743:HIS:CE1	2.39	0.41
1:F:211:ILE:HG21	1:F:239:ILE:HD13	2.03	0.41
1:F:2095:ARG:NH1	1:F:2202:GLU:OE2	2.50	0.41
1:F:2341:TYR:CD1	1:F:2353:LEU:HD13	2.56	0.41
1:F:322:ASP:HB2	1:F:324:THR:HG22	2.02	0.41
1:F:490:ILE:HD12	1:F:495:ALA:HA	2.03	0.41
1:H:1088:VAL:HG11	1:H:1767:TYR:CZ	2.56	0.41
1:H:1357:LEU:HG	1:H:1358:ARG:N	2.35	0.41

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:1579:SER:O	1:H:1581:ASP:N	2.49	0.41
1:H:1597:GLN:HE21	1:H:1597:GLN:HB2	1.60	0.41
1:H:333:GLU:HG2	1:H:506:ARG:HG3	2.03	0.41
1:H:598:HIS:HB2	1:H:600:LEU:HD13	2.03	0.41
1:H:706:ASN:HB3	1:H:773:GLU:OE1	2.20	0.41
1:I:1426:ARG:NH2	1:I:1452:ILE:HA	2.36	0.41
1:I:1544:PHE:N	1:I:1544:PHE:CD1	2.88	0.41
1:I:1885:GLN:HA	1:I:1888:HIS:NE2	2.35	0.41
1:I:2458:GLY:O	1:I:2459:GLN:HG2	2.20	0.41
1:I:398:ASN:C	1:I:400:ALA:H	2.24	0.41
1:H:890:ALA:HB2	1:I:559:ASP:HB2	2.02	0.41
1:I:747:GLU:HG2	1:I:747:GLU:O	2.20	0.41
1:I:799:LEU:O	1:I:802:ILE:HG12	2.20	0.41
1:J:1889:LEU:HD23	1:J:1889:LEU:HA	1.87	0.41
1:J:797:ASP:H	1:J:800:SER:HB2	1.86	0.41
1:J:943:SER:OG	1:J:975:ASN:O	2.37	0.41
1:A:1411:SER:HA	1:A:1415:SER:CB	2.51	0.41
1:A:192:PHE:O	1:A:198:THR:HG23	2.21	0.41
1:A:61:LEU:HD11	1:A:1831:PRO:HD2	2.02	0.41
1:A:876:THR:O	1:A:879:GLN:HB2	2.20	0.41
1:B:1122:TYR:HE2	1:B:1146:LYS:HG2	1.84	0.41
1:B:1208:THR:HG21	1:C:2126:THR:HG22	2.02	0.41
1:B:1426:ARG:NH1	1:B:1430:TYR:O	2.45	0.41
1:B:2063:LEU:HD23	1:B:2063:LEU:HA	1.91	0.41
1:B:2230:GLN:HA	1:B:2233:GLN:CG	2.51	0.41
1:C:2267:ASP:O	1:C:2270:VAL:HG12	2.21	0.41
1:D:109:VAL:CG2	1:D:152:GLN:HA	2.51	0.41
1:D:1179:LYS:HA	1:D:1179:LYS:HD2	1.83	0.41
1:D:1238:GLY:O	1:D:1305:ARG:HG3	2.21	0.41
1:D:1639:LYS:HB2	1:D:1694:LEU:O	2.21	0.41
1:E:1711:PHE:HE1	1:E:1714:SER:HB3	1.81	0.41
1:E:2360:LEU:HD22	1:E:2375:LEU:CD2	2.51	0.41
1:E:36:VAL:O	1:E:36:VAL:HG12	2.21	0.41
1:F:1438:ILE:HB	1:F:1441:ALA:HB3	2.03	0.41
1:F:33:ARG:HA	1:F:36:VAL:HG12	2.01	0.41
1:G:306:GLN:OE1	1:G:315:THR:HG22	2.20	0.41
1:G:372:LEU:HB2	1:G:378:LEU:HD21	2.03	0.41
1:H:1355:PRO:HG2	1:H:1500:ILE:HD13	2.02	0.41
1:H:1876:LEU:HA	1:H:1876:LEU:HD23	1.71	0.41
1:H:1857:LEU:HD11	1:H:1890:LEU:HD21	2.02	0.41
1:H:2410:ARG:HE	1:H:2515:ILE:CD1	2.33	0.41

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:1007:ASN:OD1	1:I:1008:ALA:N	2.53	0.41
1:I:118:TYR:HB2	1:I:1031:TRP:CZ3	2.55	0.41
1:I:1057:MET:HE2	1:I:1774:TYR:HB3	2.03	0.41
1:I:198:THR:OG1	1:I:199:PRO:HA	2.20	0.41
1:I:2296:ALA:HB1	1:I:2309:THR:HB	2.03	0.41
1:I:2356:GLU:OE2	1:I:2359:LYS:HD3	2.21	0.41
1:I:351:GLU:HG2	1:I:398:ASN:HA	2.03	0.41
1:I:714:TRP:CD1	1:I:718:LEU:HG	2.56	0.41
1:J:1560:GLU:OE2	1:J:1560:GLU:HA	2.20	0.41
1:J:1616:ARG:NH2	1:J:1628:GLU:OE1	2.40	0.41
1:J:1725:PHE:CE1	1:J:1735:ILE:HG12	2.55	0.41
1:J:749:GLN:HG3	1:J:750:GLU:N	2.36	0.41
1:J:822:LEU:HA	1:J:822:LEU:HD23	1.79	0.41
1:A:1280:PRO:HA	1:A:1283:SER:HB3	2.03	0.41
1:A:136:TYR:HD2	1:A:141:ARG:NH2	2.19	0.41
1:A:1381:LEU:HB3	1:A:1523:PRO:HB2	2.02	0.41
1:A:206:ASN:O	1:A:210:VAL:HG23	2.20	0.41
1:A:609:LEU:HD23	1:A:609:LEU:HA	1.83	0.41
1:B:1332:VAL:CG1	1:B:1568:GLU:HG2	2.51	0.41
1:B:61:LEU:HD13	1:B:1843:HIS:NE2	2.36	0.41
1:B:1959:TYR:HA	1:B:1962:THR:HG22	2.02	0.41
1:B:1995:LEU:HB3	1:C:2235:GLN:HG2	2.03	0.41
1:B:2099:TYR:CE2	1:B:2195:GLN:HB3	2.56	0.41
1:B:406:PHE:CD2	1:B:406:PHE:N	2.88	0.41
1:B:41:SER:O	1:B:42:TRP:HB2	2.21	0.41
1:C:1163:TYR:HB3	1:C:1168:TYR:CD1	2.55	0.41
1:B:1188:TYR:HB3	1:C:1188:TYR:OH	2.19	0.41
1:C:1410:TYR:CE2	1:C:1464:PRO:HB3	2.55	0.41
1:C:2105:GLU:O	1:C:2105:GLU:HG3	2.21	0.41
1:C:215:ASP:O	1:C:218:LEU:HD23	2.21	0.41
1:C:273:PRO:HG3	1:C:434:TYR:HE2	1.86	0.41
1:D:1411:SER:N	1:D:1419:GLN:O	2.53	0.41
1:D:1355:PRO:HD2	1:D:1532:PHE:HB2	2.03	0.41
1:D:1622:ASP:N	1:D:1622:ASP:OD2	2.53	0.41
1:D:1655:HIS:CE1	1:D:1659:ARG:HG3	2.56	0.41
1:E:1287:ARG:HG3	1:E:1287:ARG:HH11	1.86	0.41
1:E:2016:LEU:HD13	1:E:2468:LYS:HD3	2.03	0.41
1:E:2325:ASP:OD1	1:E:2326:LYS:N	2.53	0.41
1:E:299:LYS:HG2	1:E:309:SER:HB3	2.02	0.41
1:E:458:GLU:OE1	1:E:462:ARG:NH2	2.54	0.41
1:E:593:LEU:HA	1:E:593:LEU:HD23	1.79	0.41

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1711:PHE:CD1	1:F:1713:LYS:HG2	2.56	0.41
1:F:1823:GLU:O	1:F:1823:GLU:HG2	2.21	0.41
1:F:363:TYR:CE1	1:F:414:LEU:HD23	2.56	0.41
1:F:892:GLN:NE2	1:G:541:GLY:HA2	2.36	0.41
1:G:1358:ARG:NH2	1:G:1360:ILE:HD11	2.36	0.41
1:G:1419:GLN:HB3	1:G:1462:ASN:CG	2.41	0.41
1:G:1101:ILE:HG21	1:G:1577:LYS:HA	2.03	0.41
1:G:1649:PRO:CB	1:G:1683:ASP:HA	2.51	0.41
1:G:1677:TYR:CZ	1:G:1688:ILE:HD13	2.55	0.41
1:G:1844:ASP:OD2	1:G:1846:MET:HE2	2.20	0.41
1:G:2419:LEU:HD23	1:G:2419:LEU:HA	1.84	0.41
1:G:42:TRP:HH2	1:G:1321:ASP:CB	2.29	0.41
1:H:1500:ILE:HD11	1:H:1532:PHE:CE1	2.55	0.41
1:G:2330:GLU:CB	1:H:2459:GLN:HA	2.39	0.41
1:I:1218:ASN:O	1:I:1221:ILE:HG13	2.20	0.41
1:H:2147:PHE:CG	1:I:2147:PHE:CE2	3.09	0.41
1:I:2167:PHE:CD1	1:J:2166:GLU:HG2	2.56	0.41
1:I:521:THR:HG22	1:I:522:PRO:CD	2.51	0.41
1:I:595:ALA:HB2	1:I:605:LEU:HG	2.03	0.41
1:J:1111:ILE:HD11	1:J:1160:PRO:HB3	2.02	0.41
1:A:1051:ILE:HA	1:A:1052:GLY:HA2	1.54	0.41
1:A:1707:VAL:HB	1:A:1725:PHE:HE2	1.86	0.41
1:A:1959:TYR:HA	1:A:1962:THR:HG22	2.03	0.41
1:A:23:ASP:O	1:A:26:HIS:ND1	2.50	0.41
1:A:2434:SER:HB2	1:A:2483:THR:HB	2.02	0.41
1:A:245:PRO:O	1:A:248:PHE:HB3	2.21	0.41
1:A:402:ILE:HG23	1:A:428:VAL:HG13	2.03	0.41
1:A:796:HIS:CD2	1:A:801:LEU:HD11	2.51	0.41
1:A:887:LEU:HB2	1:A:889:VAL:HG12	2.01	0.41
1:B:1121:TYR:HB2	1:B:1147:ILE:CD1	2.51	0.41
1:B:1428:THR:HB	1:B:1430:TYR:CE1	2.56	0.41
1:B:2145:PHE:CD1	1:B:2146:GLY:HA2	2.56	0.41
1:B:598:HIS:CB	1:B:600:LEU:HD13	2.51	0.41
1:B:820:SER:HA	1:C:664:THR:HG22	2.02	0.41
1:B:159:LEU:HD12	1:B:985:ARG:HG3	2.02	0.41
1:C:1287:ARG:O	1:C:1291:TYR:HB3	2.21	0.41
1:C:1411:SER:HA	1:C:1415:SER:HB2	2.03	0.41
1:C:2145:PHE:HD1	1:C:2145:PHE:HA	1.70	0.41
1:C:375:LYS:O	1:C:375:LYS:HG3	2.21	0.41
1:C:634:LEU:HA	1:C:634:LEU:HD23	1.91	0.41
1:D:1497:LYS:O	1:D:1499:GLN:HG3	2.21	0.41

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1805:TYR:CZ	1:D:1817:ASN:HB2	2.55	0.41
1:D:2341:TYR:HD1	1:D:2353:LEU:HD13	1.84	0.41
1:A:1211:THR:HB	1:E:1117:ASP:OD2	2.21	0.41
1:E:1651:ASN:CB	1:E:1652:LEU:HA	2.48	0.41
1:E:219:GLU:O	1:E:223:ALA:N	2.54	0.41
1:E:2393:PHE:CZ	1:E:2482:LEU:HD12	2.56	0.41
1:F:1260:LYS:HB3	1:F:1287:ARG:HH12	1.86	0.41
1:F:1973:ASN:O	1:F:1981:LEU:HD13	2.21	0.41
1:F:2040:LEU:HA	1:F:2258:LEU:HD23	2.03	0.41
1:F:2338:ALA:HB2	1:F:2506:ASP:HB3	2.03	0.41
1:F:725:MET:HG2	1:F:755:TYR:HB2	2.03	0.41
1:G:1378:TYR:HB2	1:G:1423:LEU:HD11	2.02	0.41
1:G:1459:ASP:CB	1:G:1462:ASN:HB3	2.49	0.41
1:G:2065:LEU:HD23	1:G:2065:LEU:HA	1.83	0.41
1:G:2413:LYS:O	1:G:2473:GLU:HG2	2.21	0.41
1:G:598:HIS:HB2	1:G:600:LEU:HD13	2.03	0.41
1:G:769:THR:OG1	1:G:771:ILE:HG13	2.21	0.41
1:H:1225:LYS:HG2	1:H:1225:LYS:H	1.58	0.41
1:H:1618:THR:HG21	1:I:1165:SER:HB3	2.03	0.41
1:H:201:HIS:HB3	1:H:204:TYR:HB3	2.02	0.41
1:H:219:GLU:O	1:H:223:ALA:N	2.51	0.41
1:H:357:TYR:HE2	1:H:368:LEU:HD21	1.85	0.41
1:H:375:LYS:HD2	1:H:375:LYS:HA	1.87	0.41
1:H:689:LEU:HD13	1:H:713:LEU:HD23	2.03	0.41
1:I:1046:ASP:OD1	1:I:1048:THR:HB	2.21	0.41
1:I:2302:ALA:HB3	1:I:2304:LEU:CG	2.34	0.41
1:I:1888:HIS:HE1	1:J:1002:GLU:OE1	2.03	0.41
1:J:1023:LYS:HE3	1:J:1023:LYS:HB2	1.85	0.41
1:J:1378:TYR:HB3	1:J:1421:ARG:NH1	2.35	0.41
1:J:2063:LEU:HD23	1:J:2063:LEU:HA	1.87	0.41
1:J:276:LEU:HA	1:J:281:TYR:HD2	1.85	0.41
1:J:462:ARG:HG3	1:J:467:GLN:HG3	2.03	0.41
1:A:1295:ASP:OD1	1:A:1296:THR:HG22	2.20	0.41
1:A:1394:ASN:HB3	1:A:1396:ASN:O	2.21	0.41
1:A:1437:TRP:CZ3	1:A:1439:PRO:HG3	2.56	0.41
1:A:1313:PRO:HG2	1:A:1573:PRO:HD2	2.02	0.41
1:A:1585:THR:HB	1:A:1597:GLN:HE21	1.86	0.41
1:A:1587:HIS:CD2	1:A:1597:GLN:NE2	2.88	0.41
1:A:237:LEU:HB2	1:A:479:PHE:HB2	2.03	0.41
1:A:697:ALA:HB2	1:A:708:ALA:CB	2.51	0.41
1:B:1494:SER:OG	1:B:1560:GLU:OE1	2.36	0.41

*Continued on next page...*



*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2068:LEU:HD12	1:B:2227:LEU:HB3	2.02	0.41
1:C:1061:LEU:HA	1:C:1064:VAL:HG12	2.02	0.41
1:C:1069:LEU:HD13	1:C:1783:LEU:HD23	2.03	0.41
1:C:1092:LYS:HE2	1:C:1300:ARG:HH22	1.86	0.41
1:C:1706:LYS:HG3	1:C:1724:HIS:CE1	2.56	0.41
1:C:623:SER:HB2	1:C:626:GLN:HB2	2.03	0.41
1:D:1041:PRO:HG2	1:D:1847:HIS:ND1	2.36	0.41
1:D:1659:ARG:HB3	1:D:1660:TRP:CE3	2.56	0.41
1:D:2145:PHE:HD1	1:D:2145:PHE:HA	1.77	0.41
1:D:706:ASN:HB3	1:D:773:GLU:OE1	2.21	0.41
1:E:1337:ILE:HG23	1:E:1353:ILE:HG23	2.03	0.41
1:E:137:TYR:CE2	1:E:139:ASP:HB2	2.55	0.41
1:E:153:GLN:O	1:E:157:ILE:HG12	2.21	0.41
1:F:1101:ILE:HD11	1:F:1311:GLU:HB2	2.03	0.41
1:F:2403:PRO:HB2	1:G:2382:ASP:HB3	2.02	0.41
1:G:1256:LEU:HA	1:G:1256:LEU:HD23	1.98	0.41
1:G:1495:PRO:HB2	1:G:1514:ASP:HB3	2.02	0.41
1:G:496:LEU:O	1:G:499:CYS:N	2.51	0.41
1:G:515:PHE:HZ	1:G:528:TYR:HD2	1.68	0.41
1:G:529:PHE:HB2	1:G:531:THR:HG23	2.02	0.41
1:H:1868:TYR:OH	1:H:1974:LEU:O	2.39	0.41
1:H:693:ALA:HB3	1:H:694:PRO:HD3	2.03	0.41
1:I:1494:SER:HB2	1:I:1497:LYS:HG3	2.03	0.41
1:I:1350:LYS:HZ2	1:I:1536:GLU:HB2	1.85	0.41
1:I:1544:PHE:HD1	1:I:1544:PHE:N	2.19	0.41
1:I:1616:ARG:HH22	1:I:1628:GLU:CD	2.24	0.41
1:I:2418:THR:O	1:I:2508:ILE:HB	2.21	0.41
1:I:42:TRP:CZ3	1:I:1321:ASP:HB2	2.56	0.41
1:I:608:LEU:HA	1:I:608:LEU:HD23	1.71	0.41
1:J:159:LEU:HD13	1:J:985:ARG:HH11	1.86	0.41
1:J:1717:ASP:OD2	1:J:1717:ASP:N	2.54	0.41
1:J:2065:LEU:HD23	1:J:2065:LEU:HA	1.76	0.41
1:J:2082:LYS:HE2	1:J:2086:GLU:CD	2.42	0.41
1:J:2255:ARG:O	1:J:2255:ARG:HG2	2.19	0.41
1:J:598:HIS:CB	1:J:600:LEU:HD13	2.51	0.41
1:J:605:LEU:HD13	1:J:609:LEU:HG	2.03	0.41
1:A:276:LEU:HD23	1:A:437:LEU:HD13	2.02	0.40
1:B:1287:ARG:HH11	1:B:1287:ARG:HG3	1.86	0.40
1:B:1310:TYR:CE2	1:B:1576:LEU:HD13	2.56	0.40
1:B:1772:PHE:O	1:B:1776:PRO:HG2	2.20	0.40
1:B:1784:LEU:HA	1:B:1784:LEU:HD23	1.83	0.40

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1796:LEU:HD13	1:B:1856:THR:HA	2.02	0.40
1:B:231:MET:CG	1:B:898:VAL:HG23	2.51	0.40
1:B:2433:LEU:CD2	1:B:2482:LEU:HD21	2.50	0.40
1:B:598:HIS:HB3	1:B:638:THR:HG21	2.03	0.40
1:B:930:GLN:HA	1:B:933:THR:HG22	2.02	0.40
1:C:1782:ARG:HD2	1:C:1782:ARG:HA	1.82	0.40
1:C:2118:ARG:HH11	1:C:2177:ASP:HB3	1.85	0.40
1:C:333:GLU:HG2	1:C:506:ARG:HG3	2.03	0.40
1:D:1357:LEU:CD1	1:D:1555:PHE:HB3	2.51	0.40
1:D:15:GLN:HA	1:D:16:CYS:HA	1.95	0.40
1:D:1840:VAL:O	1:D:1843:HIS:HB3	2.20	0.40
1:D:2431:ALA:HB3	1:D:2450:VAL:CG1	2.50	0.40
1:A:2172:MET:CB	1:E:2121:ALA:HB2	2.51	0.40
1:E:2040:LEU:HD12	1:E:2302:ALA:HB1	2.03	0.40
1:E:2412:ILE:O	1:E:2473:GLU:HA	2.21	0.40
1:F:1206:ASP:OD2	1:F:1207:GLY:N	2.53	0.40
1:F:159:LEU:CD1	1:F:985:ARG:HG3	2.51	0.40
1:F:1597:GLN:HB3	1:F:1602:ARG:HG2	2.03	0.40
1:F:1863:ARG:HD3	1:F:1882:TRP:CH2	2.56	0.40
1:F:2106:ASN:ND2	1:F:2189:ARG:HD2	2.36	0.40
1:F:2353:LEU:HD23	1:F:2506:ASP:HB2	2.03	0.40
1:F:316:PRO:HA	1:F:327:VAL:HA	2.02	0.40
1:F:719:GLN:OE1	1:F:724:ALA:HB1	2.20	0.40
1:F:878:LEU:HD23	1:F:878:LEU:HA	1.79	0.40
1:G:1107:LEU:HB2	1:G:1126:VAL:O	2.21	0.40
1:G:1634:GLU:HA	1:G:1635:PRO:HD3	1.97	0.40
1:G:192:PHE:HE2	1:G:195:SER:HB2	1.85	0.40
1:F:2143:ASN:HB3	1:G:2151:GLY:HA2	2.03	0.40
1:G:432:ASN:HB3	1:G:435:SER:CB	2.45	0.40
1:G:452:LEU:HD21	1:G:485:MET:HE1	2.02	0.40
1:G:601:THR:HG22	1:G:604:GLU:CD	2.40	0.40
1:H:189:LEU:HA	1:H:189:LEU:HD12	1.64	0.40
1:H:2470:LEU:O	1:H:2473:GLU:HG3	2.21	0.40
1:H:612:VAL:HG13	1:H:633:LYS:HD3	2.03	0.40
1:I:1126:VAL:HB	1:I:1141:TRP:CZ3	2.56	0.40
1:I:112:MET:HG2	1:I:1949:LEU:O	2.21	0.40
1:I:1289:ASN:CG	1:I:1308:GLU:HG3	2.41	0.40
1:I:1407:VAL:HG13	1:I:1423:LEU:HB2	2.02	0.40
1:I:1816:TRP:CZ2	1:I:1849:LYS:HD3	2.56	0.40
1:I:1973:ASN:O	1:I:1981:LEU:HD13	2.21	0.40
1:I:2393:PHE:HE1	1:I:2482:LEU:HB2	1.81	0.40

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:259:ASN:HB3	1:I:263:LEU:HG	2.02	0.40
1:I:33:ARG:HA	1:I:33:ARG:HD2	1.91	0.40
1:J:1650:TYR:O	1:J:1651:ASN:HB2	2.22	0.40
1:J:1930:ILE:HB	1:J:1931:PRO:HD3	2.02	0.40
1:J:193:ARG:N	1:J:194:PRO:CD	2.84	0.40
1:J:2117:LEU:HA	1:J:2117:LEU:HD23	1.86	0.40
1:J:644:GLN:O	1:J:646:TRP:CD1	2.74	0.40
1:J:644:GLN:NE2	1:J:805:THR:HG21	2.36	0.40
1:J:845:LEU:HD21	1:J:881:VAL:HG13	2.02	0.40
1:A:1386:ILE:HB	1:A:1408:TYR:HB3	2.03	0.40
1:A:1671:ASN:OD1	1:A:1699:LEU:HD22	2.21	0.40
1:A:2237:GLN:O	1:A:2240:PHE:HB3	2.21	0.40
1:A:2004:GLN:H	1:A:2300:THR:HG23	1.86	0.40
1:A:300:ALA:CB	1:A:306:GLN:HE21	2.31	0.40
1:C:1371:GLN:O	1:C:1375:MET:HG3	2.21	0.40
1:C:1805:TYR:CZ	1:C:1817:ASN:HB2	2.56	0.40
1:C:2203:LEU:O	1:C:2207:ASP:HB2	2.22	0.40
1:C:2047:GLN:HB2	1:C:2251:TYR:HB3	2.01	0.40
1:C:2294:PRO:HA	1:C:2295:GLY:HA2	1.59	0.40
1:C:2291:PHE:CD2	1:C:2317:MET:HA	2.57	0.40
1:C:2359:LYS:O	1:C:2363:GLN:HG2	2.21	0.40
1:C:348:PHE:CE1	1:C:354:ARG:HD3	2.56	0.40
1:C:693:ALA:HB3	1:C:694:PRO:HD3	2.03	0.40
1:D:1158:ILE:HG13	1:D:1171:TRP:HB3	2.02	0.40
1:D:1333:TYR:HD2	1:D:1358:ARG:CD	2.33	0.40
1:D:1093:VAL:HG23	1:D:1606:ASN:OD1	2.20	0.40
1:D:1642:TYR:CD1	1:D:1753:ILE:HG22	2.56	0.40
1:D:357:TYR:HE2	1:D:368:LEU:HD21	1.86	0.40
1:D:598:HIS:CB	1:D:600:LEU:HD13	2.52	0.40
1:D:71:ASN:HA	1:D:72:PRO:HD3	1.88	0.40
1:E:1233:GLY:CA	1:E:1250:TYR:HB2	2.50	0.40
1:E:1248:MET:HE1	1:E:1283:SER:O	2.21	0.40
1:E:1641:PHE:HB3	1:E:1692:ILE:O	2.21	0.40
1:E:1065:SER:HA	1:E:1782:ARG:HE	1.86	0.40
1:E:2142:PRO:HB2	1:E:2145:PHE:CZ	2.56	0.40
1:E:2263:PHE:HD1	1:E:2297:TRP:CZ2	2.40	0.40
1:E:2331:VAL:HG21	1:E:2402:TYR:HE2	1.87	0.40
1:F:2285:ASN:ND2	1:F:2409:ILE:HG21	2.36	0.40
1:F:297:ILE:HA	1:F:314:ILE:HG13	2.03	0.40
1:F:450:THR:HG21	1:F:478:VAL:HG11	2.03	0.40
1:G:1090:ASN:OD1	1:G:1611:ARG:NH1	2.54	0.40

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:111:SER:HB3	1:G:114:SER:HB3	2.02	0.40
1:G:1268:TYR:HD1	1:G:1278:MET:HG3	1.84	0.40
1:G:1662:LYS:HD2	1:G:1712:LYS:HE2	2.02	0.40
1:G:2117:LEU:HA	1:G:2117:LEU:HD23	1.90	0.40
1:G:2420:PRO:HD2	1:G:2506:ASP:O	2.21	0.40
1:H:1383:ASP:O	1:H:1491:THR:OG1	2.28	0.40
1:H:1930:ILE:HB	1:H:1931:PRO:HD3	2.02	0.40
1:I:1122:TYR:HA	1:I:1145:HIS:O	2.21	0.40
1:I:1170:LEU:HD12	1:I:1236:CYS:SG	2.62	0.40
1:I:1630:GLN:HG2	1:I:1819:ARG:CB	2.45	0.40
1:I:1770:GLU:HA	1:I:1774:TYR:HB2	2.03	0.40
1:I:2063:LEU:HD23	1:I:2063:LEU:HA	1.84	0.40
1:I:2016:LEU:HD13	1:I:2468:LYS:HD3	2.03	0.40
1:I:2419:LEU:HD21	1:I:2507:ILE:HG12	2.02	0.40
1:I:477:LYS:CE	1:I:624:ASP:HB3	2.51	0.40
1:I:514:GLN:HA	1:I:517:ARG:NH1	2.37	0.40
1:I:581:ASN:O	1:I:585:LEU:HG	2.21	0.40
1:I:693:ALA:HB3	1:I:694:PRO:HD3	2.03	0.40
1:J:1294:PHE:HA	1:J:1301:ARG:CB	2.51	0.40
1:J:1381:LEU:HD13	1:J:1382:GLY:N	2.36	0.40
1:F:2235:GLN:HG2	1:J:1995:LEU:HB3	2.03	0.40
1:J:2422:LEU:H	1:J:2503:THR:CG2	2.34	0.40
1:A:1170:LEU:HA	1:A:1199:LYS:O	2.22	0.40
1:A:1893:LYS:HG2	1:A:1960:TRP:CE3	2.56	0.40
1:B:1260:LYS:HA	1:B:1287:ARG:HH22	1.86	0.40
1:B:1312:ILE:HA	1:B:1313:PRO:HD3	1.93	0.40
1:B:1353:ILE:O	1:B:1535:LEU:N	2.55	0.40
1:B:150:LEU:HD23	1:B:150:LEU:HA	1.88	0.40
1:B:1602:ARG:HD2	1:B:1693:PRO:HB3	2.04	0.40
1:B:2025:ASN:OD1	1:B:2272:ARG:HD2	2.22	0.40
1:B:2281:ARG:HD3	1:B:2289:ALA:O	2.21	0.40
1:B:598:HIS:HB2	1:B:600:LEU:HD13	2.03	0.40
1:B:749:GLN:O	1:B:753:VAL:N	2.35	0.40
1:C:1111:ILE:HD13	1:C:1169:LEU:HD22	2.03	0.40
1:C:126:ALA:O	1:C:129:LEU:HB2	2.21	0.40
1:C:1560:GLU:HA	1:C:1560:GLU:OE2	2.22	0.40
1:C:1655:HIS:NE2	1:C:1929:ASN:O	2.55	0.40
1:C:1974:LEU:HA	1:C:1980:PRO:HA	2.03	0.40
1:C:2111:GLU:OE1	1:D:2187:ARG:NE	2.55	0.40
1:C:406:PHE:CD2	1:C:406:PHE:N	2.86	0.40
1:C:465:ASN:OD1	1:C:466:LEU:N	2.45	0.40

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:78:VAL:HG12	1:C:79:HIS:CD2	2.56	0.40
1:D:1071:ALA:O	1:D:1075:GLU:HG3	2.21	0.40
1:D:1996:LEU:HA	1:D:1996:LEU:HD23	1.95	0.40
1:E:1151:ILE:HG23	1:E:1171:TRP:CD2	2.56	0.40
1:E:1664:TYR:O	1:E:1707:VAL:HA	2.21	0.40
1:E:336:THR:HA	1:E:337:ASN:HA	1.83	0.40
1:E:908:GLU:HG2	1:E:908:GLU:O	2.21	0.40
1:F:105:ALA:HB2	1:F:1896:LEU:CD1	2.51	0.40
1:F:1650:TYR:O	1:F:1651:ASN:CB	2.68	0.40
1:F:1720:TRP:HE1	1:F:1739:SER:H	1.69	0.40
1:F:2007:GLY:N	1:F:2008:LYS:HB3	2.36	0.40
1:F:840:ASN:HB3	1:G:649:PHE:CE2	2.57	0.40
1:G:125:GLU:HB3	1:G:1018:PHE:HE1	1.86	0.40
1:G:1287:ARG:HH11	1:G:1287:ARG:HG3	1.86	0.40
1:G:1255:THR:CA	1:G:1296:THR:HG21	2.50	0.40
1:G:1352:TYR:HA	1:G:1535:LEU:O	2.21	0.40
1:G:1650:TYR:CD1	1:G:1651:ASN:N	2.90	0.40
1:G:1858:ASP:OD1	1:G:1959:TYR:OH	2.26	0.40
1:G:2202:GLU:O	1:G:2205:GLN:HB3	2.22	0.40
1:G:2238:LEU:O	1:G:2242:GLN:HG2	2.21	0.40
1:G:2419:LEU:HD21	1:G:2507:ILE:HG12	2.03	0.40
1:G:852:GLN:HB3	1:G:880:TRP:CZ3	2.57	0.40
1:H:201:HIS:CD2	1:H:203:ALA:HB3	2.56	0.40
1:H:2412:ILE:O	1:H:2473:GLU:HA	2.21	0.40
1:H:300:ALA:CB	1:H:306:GLN:HE21	2.31	0.40
1:H:689:LEU:HD13	1:H:713:LEU:CD2	2.52	0.40
1:I:41:SER:O	1:I:42:TRP:HB2	2.22	0.40
1:J:1061:LEU:HB2	1:J:1778:LEU:HD11	2.04	0.40
1:J:1340:ILE:HD13	1:J:1572:ILE:HD13	2.04	0.40
1:J:1836:ASP:HA	1:J:1837:PRO:HD2	1.92	0.40
1:I:1062:GLN:CD	1:J:2117:LEU:HD21	2.41	0.40
1:J:614:GLU:C	1:J:617:THR:HG22	2.42	0.40
1:J:991:ALA:HA	1:J:994:GLN:OE1	2.21	0.40
1:A:1380:LYS:O	1:A:1383:ASP:HB2	2.21	0.40
1:A:1972:HIS:HB2	1:A:1974:LEU:HD13	2.02	0.40
1:A:2057:GLN:NE2	1:A:2237:GLN:OE1	2.54	0.40
1:A:248:PHE:CE1	1:A:902:TYR:HB3	2.55	0.40
1:A:32:PHE:CE1	1:A:36:VAL:HG21	2.56	0.40
1:A:519:PHE:HD2	1:A:550:ILE:HG22	1.87	0.40
1:B:1353:ILE:HG22	1:B:1355:PRO:CD	2.50	0.40
1:B:1368:LYS:O	1:B:1372:CYS:HB2	2.21	0.40

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1408:TYR:CD1	1:B:1467:LEU:HD12	2.56	0.40
1:B:1357:LEU:HD13	1:B:1555:PHE:HB3	2.03	0.40
1:B:2027:ARG:HH11	1:B:2311:MET:HG3	1.86	0.40
1:B:353:TYR:HE2	1:B:402:ILE:HD11	1.86	0.40
1:B:663:LEU:HD12	1:B:663:LEU:O	2.22	0.40
1:C:1041:PRO:HG2	1:C:1847:HIS:ND1	2.36	0.40
1:C:810:TRP:HZ2	1:C:835:LEU:HD11	1.86	0.40
1:C:878:LEU:HD23	1:C:878:LEU:HA	1.96	0.40
1:D:1223:GLU:HB2	1:D:1265:GLN:OE1	2.22	0.40
1:D:1260:LYS:C	1:D:1262:ALA:H	2.25	0.40
1:D:1408:TYR:CG	1:D:1467:LEU:HD12	2.56	0.40
1:D:142:ARG:HA	1:D:143:PRO:HD3	1.91	0.40
1:D:1561:ASP:CG	1:D:1563:ARG:HH21	2.23	0.40
1:D:2129:GLN:HG3	1:D:2164:VAL:HG21	2.04	0.40
1:D:251:LEU:HD13	1:D:446:LEU:HG	2.03	0.40
1:D:437:LEU:HD23	1:D:437:LEU:HA	1.89	0.40
1:E:1796:LEU:HA	1:E:1796:LEU:HD23	1.96	0.40
1:A:2147:PHE:CE2	1:E:2147:PHE:CD2	3.09	0.40
1:E:889:VAL:HG22	1:E:890:ALA:N	2.36	0.40
1:F:1111:ILE:CD1	1:F:1169:LEU:HD22	2.52	0.40
1:F:2218:GLU:O	1:F:2222:LEU:HD13	2.22	0.40
1:F:2249:ALA:O	1:F:2252:ASN:HB2	2.22	0.40
1:F:30:ASN:O	1:F:34:GLN:HG2	2.21	0.40
1:G:1295:ASP:HB3	1:G:1301:ARG:HE	1.85	0.40
1:G:1622:ASP:OD2	1:G:1622:ASP:N	2.54	0.40
1:G:2410:ARG:HA	1:G:2514:THR:O	2.21	0.40
1:G:353:TYR:HE2	1:G:402:ILE:HD11	1.86	0.40
1:G:398:ASN:O	1:G:402:ILE:HG12	2.21	0.40
1:G:41:SER:HB3	1:G:44:GLU:OE1	2.21	0.40
1:G:614:GLU:C	1:G:617:THR:HG22	2.42	0.40
1:H:1394:ASN:HB3	1:H:1396:ASN:O	2.21	0.40
1:H:1656:GLY:HA2	1:H:1657:ASP:HA	1.81	0.40
1:H:1668:VAL:HG13	1:H:1669:VAL:H	1.87	0.40
1:H:877:ILE:O	1:H:880:TRP:HB2	2.22	0.40
1:H:231:MET:HG2	1:H:898:VAL:HG23	2.03	0.40
1:I:1312:ILE:HA	1:I:1313:PRO:HD3	1.98	0.40
1:I:567:LYS:HD3	1:I:567:LYS:HA	1.93	0.40
1:J:1061:LEU:HA	1:J:1064:VAL:HG12	2.04	0.40
1:J:1097:TYR:CE1	1:J:1161:VAL:HG23	2.57	0.40
1:A:1975:SER:OG	1:A:1976:ILE:N	2.54	0.40
1:A:2143:ASN:O	1:B:2151:GLY:HA2	2.22	0.40

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1405:TYR:HA	1:B:1406:PRO:HD3	1.94	0.40
1:B:1405:TYR:HB2	1:B:1425:HIS:HB3	2.04	0.40
1:B:1466:ASP:O	1:B:1469:GLN:HB2	2.22	0.40
1:B:1085:PHE:HE2	1:B:1767:TYR:HB3	1.86	0.40
1:B:2111:GLU:CD	1:B:2188:ARG:HH22	2.24	0.40
1:C:2422:LEU:O	1:C:2423:LEU:HD23	2.22	0.40
1:C:33:ARG:CZ	1:C:37:SER:HA	2.51	0.40
1:C:567:LYS:HD3	1:C:567:LYS:HA	1.92	0.40
1:C:608:LEU:HA	1:C:608:LEU:HD23	1.85	0.40
1:D:1168:TYR:CE2	1:D:1202:HIS:HB3	2.56	0.40
1:D:164:LEU:HD23	1:D:164:LEU:HA	1.88	0.40
1:D:1641:PHE:CD1	1:D:1692:ILE:HB	2.55	0.40
1:D:182:TYR:O	1:D:185:VAL:HB	2.21	0.40
1:D:2308:GLU:OE1	1:D:2308:GLU:N	2.49	0.40
1:E:1024:TYR:CD2	1:E:1034:VAL:HG21	2.57	0.40
1:E:1840:VAL:O	1:E:1843:HIS:HB3	2.21	0.40
1:E:2296:ALA:HB1	1:E:2306:ALA:HA	2.03	0.40
1:E:271:ILE:HG23	1:E:952:ARG:HH22	1.86	0.40
1:E:331:THR:O	1:E:426:PHE:HA	2.20	0.40
1:E:614:GLU:C	1:E:617:THR:HG22	2.42	0.40
1:E:734:LEU:HD23	1:E:734:LEU:HA	1.71	0.40
1:E:850:SER:O	1:E:854:GLN:HG3	2.21	0.40
1:F:1435:GLU:O	1:F:1473:MET:HA	2.21	0.40
1:F:2188:ARG:NH2	1:G:2187:ARG:HG3	2.36	0.40
1:F:497:ILE:HD13	1:F:589:TYR:CD2	2.42	0.40
1:F:594:LEU:O	1:F:598:HIS:ND1	2.53	0.40
1:G:1653:SER:N	1:G:1713:LYS:HE3	2.33	0.40
1:G:1976:ILE:HD13	1:G:1976:ILE:HA	1.85	0.40
1:G:822:LEU:HD23	1:G:822:LEU:HA	1.86	0.40
1:H:1151:ILE:HG23	1:H:1171:TRP:CE2	2.57	0.40
1:H:1268:TYR:CE1	1:H:1278:MET:HG3	2.54	0.40
1:H:1328:TYR:O	1:H:1363:GLY:HA2	2.22	0.40
1:H:2042:ASN:HA	1:H:2045:GLU:OE2	2.21	0.40
1:H:2063:LEU:HD23	1:H:2063:LEU:HA	1.78	0.40
1:H:2111:GLU:OE2	1:H:2188:ARG:NH2	2.52	0.40
1:H:2430:GLN:N	1:H:2497:GLN:OE1	2.52	0.40
1:H:772:ASN:HD22	1:H:822:LEU:CD1	2.35	0.40
1:I:1294:PHE:HA	1:I:1301:ARG:CB	2.51	0.40
1:I:155:MET:HA	1:I:986:ILE:HB	2.03	0.40
1:I:2431:ALA:HB3	1:I:2450:VAL:CG1	2.51	0.40
1:I:2463:ASP:O	1:I:2466:ASP:HB2	2.21	0.40

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:1061:LEU:HD13	1:J:1778:LEU:HD11	2.03	0.40
1:J:1040:TYR:CD1	1:J:1953:ASN:HB3	2.57	0.40
1:J:2046:ARG:HB3	1:J:2251:TYR:CE2	2.57	0.40
1:F:2176:ALA:HB1	1:J:2118:ARG:HE	1.87	0.40
1:J:2353:LEU:O	1:J:2357:ILE:HG13	2.21	0.40

There are no symmetry-related clashes.

## 5.3 Torsion angles [i](#)

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

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	2484/2516 (99%)	2384 (96%)	94 (4%)	6 (0%)	47	81
1	B	2484/2516 (99%)	2397 (96%)	82 (3%)	5 (0%)	47	81
1	C	2484/2516 (99%)	2394 (96%)	85 (3%)	5 (0%)	47	81
1	D	2484/2516 (99%)	2390 (96%)	90 (4%)	4 (0%)	47	81
1	E	2484/2516 (99%)	2387 (96%)	92 (4%)	5 (0%)	47	81
1	F	2484/2516 (99%)	2389 (96%)	90 (4%)	5 (0%)	47	81
1	G	2482/2516 (99%)	2393 (96%)	84 (3%)	5 (0%)	47	81
1	H	2484/2516 (99%)	2393 (96%)	86 (4%)	5 (0%)	47	81
1	I	2484/2516 (99%)	2393 (96%)	86 (4%)	5 (0%)	47	81
1	J	2484/2516 (99%)	2395 (96%)	84 (3%)	5 (0%)	47	81
All	All	24838/25160 (99%)	23915 (96%)	873 (4%)	50 (0%)	47	81

All (50) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	1651	ASN
1	C	522	PRO

*Continued on next page...*



*Continued from previous page...*

Mol	Chain	Res	Type
1	D	954	VAL
1	F	954	VAL
1	F	1651	ASN
1	G	954	VAL
1	G	1255	THR
1	H	1651	ASN
1	I	522	PRO
1	J	1651	ASN
1	A	954	VAL
1	A	1255	THR
1	A	1992	PRO
1	B	954	VAL
1	B	1255	THR
1	C	1255	THR
1	D	1651	ASN
1	E	954	VAL
1	E	1254	ASP
1	E	1255	THR
1	F	1255	THR
1	H	954	VAL
1	H	1255	THR
1	I	954	VAL
1	I	1255	THR
1	J	954	VAL
1	J	1255	THR
1	A	1254	ASP
1	B	1254	ASP
1	C	954	VAL
1	C	1254	ASP
1	E	1651	ASN
1	F	1254	ASP
1	G	1254	ASP
1	G	1651	ASN
1	I	1254	ASP
1	J	1254	ASP
1	D	361	ASN
1	H	1254	ASP
1	A	1991	ASP
1	B	361	ASN
1	B	860	PRO
1	G	860	PRO
1	H	860	PRO

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
1	J	860	PRO
1	C	860	PRO
1	D	860	PRO
1	E	860	PRO
1	I	860	PRO
1	F	860	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	2134/2157 (99%)	2131 (100%)	3 (0%)	93	98
1	B	2134/2157 (99%)	2129 (100%)	5 (0%)	93	98
1	C	2134/2157 (99%)	2130 (100%)	4 (0%)	93	98
1	D	2134/2157 (99%)	2128 (100%)	6 (0%)	92	97
1	E	2134/2157 (99%)	2126 (100%)	8 (0%)	91	96
1	F	2134/2157 (99%)	2131 (100%)	3 (0%)	93	98
1	G	2132/2157 (99%)	2129 (100%)	3 (0%)	93	98
1	H	2134/2157 (99%)	2130 (100%)	4 (0%)	93	98
1	I	2134/2157 (99%)	2123 (100%)	11 (0%)	88	94
1	J	2134/2157 (99%)	2128 (100%)	6 (0%)	92	97
All	All	21338/21570 (99%)	21285 (100%)	53 (0%)	93	98

All (53) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	657	THR
1	A	1814	TYR
1	A	1991	ASP
1	B	1651	ASN
1	B	1741	LEU
1	B	1751	ASN
1	B	2145	PHE

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
1	B	2254	LEU
1	C	522	PRO
1	C	1411	SER
1	C	2145	PHE
1	C	2513	TYR
1	D	581	ASN
1	D	796	HIS
1	D	1669	VAL
1	D	2145	PHE
1	D	2242	GLN
1	D	2261	ILE
1	E	1003	ASN
1	E	1102	ASN
1	E	1226	LEU
1	E	1419	GLN
1	E	1462	ASN
1	E	2112	ASN
1	E	2261	ILE
1	E	2513	TYR
1	F	1685	ASN
1	F	1942	ASN
1	F	2145	PHE
1	G	658	SER
1	G	1651	ASN
1	G	2254	LEU
1	H	1102	ASN
1	H	1669	VAL
1	H	2254	LEU
1	H	2261	ILE
1	I	446	LEU
1	I	521	THR
1	I	897	LEU
1	I	948	THR
1	I	1462	ASN
1	I	1542	LEU
1	I	1651	ASN
1	I	1814	TYR
1	I	2112	ASN
1	I	2261	ILE
1	I	2513	TYR
1	J	111	SER
1	J	402	ILE

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
1	J	658	SER
1	J	1322	TYR
1	J	2385	THR
1	J	2513	TYR

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (132) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	520	ASN
1	A	796	HIS
1	A	848	GLN
1	A	892	GLN
1	A	1102	ASN
1	A	1251	ASN
1	A	1282	GLN
1	A	1394	ASN
1	A	1547	ASN
1	A	1587	HIS
1	A	1594	GLN
1	A	1597	GLN
1	A	1810	GLN
1	A	1942	ASN
1	A	1961	GLN
1	A	2042	ASN
1	A	2106	ASN
1	B	26	HIS
1	B	306	GLN
1	B	580	ASN
1	B	892	GLN
1	B	1066	GLN
1	B	1210	ASN
1	B	1303	ASN
1	B	1462	ASN
1	B	1594	GLN
1	B	1674	HIS
1	B	1704	HIS
1	B	1812	GLN
1	B	2106	ASN
1	C	26	HIS
1	C	1174	GLN
1	C	1265	GLN
1	C	1462	ASN

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
1	C	1594	GLN
1	C	1606	ASN
1	C	1704	HIS
1	C	1724	HIS
1	C	2047	GLN
1	C	2106	ASN
1	C	2252	ASN
1	D	102	GLN
1	D	306	GLN
1	D	580	ASN
1	D	892	GLN
1	D	1462	ASN
1	D	1594	GLN
1	D	1597	GLN
1	D	1704	HIS
1	D	1810	GLN
1	D	2106	ASN
1	D	2235	GLN
1	D	2237	GLN
1	D	2247	ASN
1	E	102	GLN
1	E	340	GLN
1	E	892	GLN
1	E	1003	ASN
1	E	1102	ASN
1	E	1105	GLN
1	E	1367	GLN
1	E	1419	GLN
1	E	1462	ASN
1	E	1587	HIS
1	E	1594	GLN
1	E	1597	GLN
1	E	1810	GLN
1	E	2047	GLN
1	E	2106	ASN
1	E	2231	GLN
1	E	2252	ASN
1	F	892	GLN
1	F	1282	GLN
1	F	1367	GLN
1	F	1594	GLN
1	F	1704	HIS

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
1	F	1810	GLN
1	F	2047	GLN
1	F	2059	GLN
1	F	2106	ASN
1	F	2252	ASN
1	F	2497	GLN
1	G	340	GLN
1	G	580	ASN
1	G	796	HIS
1	G	892	GLN
1	G	1370	ASN
1	G	1594	GLN
1	G	1597	GLN
1	G	1674	HIS
1	G	1704	HIS
1	G	1724	HIS
1	G	1810	GLN
1	H	102	GLN
1	H	306	GLN
1	H	373	ASN
1	H	1462	ASN
1	H	1594	GLN
1	H	1667	HIS
1	H	1704	HIS
1	H	1810	GLN
1	H	2106	ASN
1	H	2247	ASN
1	H	2252	ASN
1	I	102	GLN
1	I	866	ASN
1	I	892	GLN
1	I	1103	ASN
1	I	1139	ASN
1	I	1394	ASN
1	I	1594	GLN
1	I	1685	ASN
1	I	1704	HIS
1	I	1815	GLN
1	I	2042	ASN
1	I	2059	GLN
1	I	2106	ASN
1	I	2248	GLN

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
1	I	2455	ASN
1	J	26	HIS
1	J	152	GLN
1	J	398	ASN
1	J	520	ASN
1	J	892	GLN
1	J	1289	ASN
1	J	1462	ASN
1	J	1594	GLN
1	J	1685	ASN
1	J	1704	HIS
1	J	1810	GLN
1	J	2057	GLN
1	J	2106	ASN

### 5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

## 5.5 Carbohydrates [i](#)

There are no carbohydrates in this entry.

## 5.6 Ligand geometry [i](#)

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](#)

There are no chain breaks in this entry.

## 6 Fit of model and data ⓘ

### 6.1 Protein, DNA and RNA chains ⓘ

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

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å <sup>2</sup> )	Q<0.9
1	A	2490/2516 (98%)	-0.12	8 (0%) 94 91	11, 61, 112, 209	0
1	B	2490/2516 (98%)	-0.11	9 (0%) 92 90	19, 63, 114, 190	0
1	C	2490/2516 (98%)	-0.09	13 (0%) 91 88	14, 67, 116, 184	0
1	D	2490/2516 (98%)	-0.10	12 (0%) 91 88	10, 64, 115, 186	0
1	E	2490/2516 (98%)	-0.13	13 (0%) 91 88	11, 58, 112, 187	0
1	F	2490/2516 (98%)	-0.04	25 (1%) 82 77	8, 71, 134, 210	0
1	G	2488/2516 (98%)	-0.06	24 (0%) 82 77	6, 67, 128, 210	0
1	H	2490/2516 (98%)	-0.04	29 (1%) 79 73	13, 68, 128, 194	0
1	I	2490/2516 (98%)	-0.05	22 (0%) 84 79	10, 68, 127, 195	0
1	J	2490/2516 (98%)	-0.04	30 (1%) 79 73	8, 69, 130, 197	0
All	All	24898/25160 (98%)	-0.08	185 (0%) 87 83	6, 65, 123, 210	0

All (185) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	E	1932	THR	7.2
1	F	1718	GLY	7.1
1	C	1932	THR	6.8
1	H	1932	THR	6.1
1	J	320	SER	5.5
1	F	1932	THR	5.1
1	H	1654	THR	4.6
1	I	378	LEU	4.4
1	J	14	SER	4.3
1	D	1931	PRO	4.3
1	B	1932	THR	4.3
1	J	321	SER	4.3
1	H	1657	ASP	4.1

*Continued on next page...*



*Continued from previous page...*

Mol	Chain	Res	Type	RSRZ
1	F	1986	TYR	4.1
1	I	1460	SER	4.1
1	F	1557	ALA	4.0
1	F	1419	GLN	4.0
1	B	17	GLY	3.9
1	J	1940	SER	3.8
1	E	1987	ALA	3.8
1	J	1939	ARG	3.7
1	H	1540	SER	3.6
1	F	1493	ILE	3.6
1	F	17	GLY	3.5
1	G	1943	THR	3.5
1	I	1680	GLN	3.5
1	I	2149	GLY	3.5
1	I	1932	THR	3.5
1	G	1556	THR	3.4
1	E	1986	TYR	3.4
1	F	1511	PHE	3.4
1	J	1556	THR	3.4
1	G	1942	ASN	3.3
1	H	1298	ASN	3.3
1	J	743	SER	3.3
1	J	1419	GLN	3.3
1	I	404	GLN	3.3
1	D	1987	ALA	3.3
1	A	1657	ASP	3.3
1	G	267	ASN	3.2
1	C	1658	GLU	3.2
1	H	1987	ALA	3.1
1	B	1940	SER	3.1
1	H	1384	LYS	3.1
1	C	1266	GLY	3.0
1	B	1895	TYR	3.0
1	D	1986	TYR	2.9
1	G	1932	THR	2.9
1	F	1247	VAL	2.9
1	H	1493	ILE	2.9
1	H	1469	GLN	2.8
1	G	1336	ASP	2.8
1	H	348	PHE	2.8
1	I	379	VAL	2.8
1	G	2149	GLY	2.8

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	RSRZ
1	G	1230	ARG	2.8
1	I	36	VAL	2.8
1	J	1466	ASP	2.8
1	J	1709	MET	2.8
1	F	396	THR	2.8
1	C	1657	ASP	2.7
1	H	1655	HIS	2.7
1	G	1557	ALA	2.7
1	C	1418	ASN	2.7
1	A	1702	ASP	2.7
1	E	1657	ASP	2.7
1	G	302	ASN	2.7
1	H	1466	ASP	2.7
1	A	1895	TYR	2.6
1	G	1469	GLN	2.6
1	H	2007	GLY	2.6
1	I	1694	LEU	2.6
1	J	1645	PHE	2.6
1	H	1468	LYS	2.6
1	H	1556	THR	2.6
1	F	1418	ASN	2.6
1	G	304	GLY	2.6
1	D	302	ASN	2.6
1	E	320	SER	2.6
1	H	1701	GLN	2.6
1	D	320	SER	2.6
1	D	1493	ILE	2.5
1	F	1275	SER	2.5
1	I	1493	ILE	2.5
1	F	22	THR	2.5
1	F	1409	GLN	2.5
1	J	303	PHE	2.5
1	J	533	ASP	2.5
1	D	1469	GLN	2.5
1	I	1445	LEU	2.5
1	J	304	GLY	2.5
1	A	2328	ALA	2.5
1	J	1931	PRO	2.5
1	G	78	VAL	2.5
1	E	2447	ALA	2.4
1	G	330	ILE	2.4
1	B	370	ILE	2.4

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	RSRZ
1	I	18	PHE	2.4
1	E	1931	PRO	2.4
1	D	1556	THR	2.4
1	F	1742	THR	2.4
1	H	1702	ASP	2.4
1	H	1467	LEU	2.4
1	F	395	ILE	2.3
1	H	1310	TYR	2.3
1	G	320	SER	2.3
1	F	95	GLN	2.3
1	A	95	GLN	2.3
1	F	1246	LEU	2.3
1	C	468	LEU	2.3
1	I	1461	LEU	2.3
1	D	306	GLN	2.3
1	H	19	ASN	2.3
1	I	1755	SER	2.3
1	A	1986	TYR	2.3
1	H	17	GLY	2.3
1	H	1755	SER	2.3
1	J	1230	ARG	2.3
1	A	320	SER	2.3
1	D	1191	GLU	2.3
1	E	60	ARG	2.3
1	G	1445	LEU	2.3
1	J	1747	VAL	2.3
1	G	1381	LEU	2.3
1	H	437	LEU	2.3
1	J	468	LEU	2.3
1	J	1149	CYS	2.2
1	B	315	THR	2.2
1	C	1445	LEU	2.2
1	J	1501	ILE	2.2
1	G	1404	PHE	2.2
1	I	370	ILE	2.2
1	B	1817	ASN	2.2
1	J	1895	TYR	2.2
1	F	1643	ALA	2.2
1	J	1657	ASP	2.2
1	F	791	GLY	2.2
1	C	1347	SER	2.2
1	H	1452	ILE	2.2

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	RSRZ
1	G	1944	LEU	2.2
1	F	1533	ASN	2.2
1	F	1467	LEU	2.2
1	I	1749	VAL	2.2
1	J	2146	GLY	2.2
1	B	95	GLN	2.2
1	H	1489	ILE	2.1
1	H	1523	PRO	2.1
1	E	396	THR	2.1
1	J	1982	TYR	2.1
1	G	1356	LYS	2.1
1	J	1378	TYR	2.1
1	H	1533	ASN	2.1
1	H	1943	THR	2.1
1	E	1556	THR	2.1
1	C	1643	ALA	2.1
1	D	1333	TYR	2.1
1	F	1230	ARG	2.1
1	F	1274	ALA	2.1
1	E	1290	SER	2.1
1	A	1230	ARG	2.1
1	J	1581	ASP	2.1
1	F	1942	ASN	2.1
1	I	39	HIS	2.1
1	I	418	SER	2.1
1	H	370	ILE	2.1
1	I	348	PHE	2.1
1	G	1306	TYR	2.1
1	B	1230	ARG	2.1
1	J	1693	PRO	2.1
1	J	370	ILE	2.1
1	C	1541	GLY	2.1
1	C	1931	PRO	2.1
1	C	1404	PHE	2.1
1	I	1645	PHE	2.1
1	J	1392	GLY	2.1
1	C	1230	ARG	2.0
1	E	370	ILE	2.0
1	D	370	ILE	2.0
1	I	1230	ARG	2.0
1	J	1665	ILE	2.0
1	E	1461	LEU	2.0

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	RSRZ
1	G	22	THR	2.0
1	I	381	THR	2.0
1	G	1333	TYR	2.0
1	G	370	ILE	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.