



## Full wwPDB EM Validation Report ⓘ

May 28, 2026 – 04:23 PM JST

PDB ID : 9VM7 / pdb\_00009vm7  
EMDB ID : EMD-65179  
Title : Structure of DOCK6 tetramer complexed with Rac1  
Authors : Kukimoto-Niino, M.; Katsura, K.; Ishizuka-Katsura, Y.; Yonemochi, M.;  
Hanada, K.; Shirouzu, M.  
Deposited on : 2025-06-27  
Resolution : 6.85 Å(reported)

This is a Full wwPDB EM 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/EMValidationReportHelp>  
with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

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

---

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

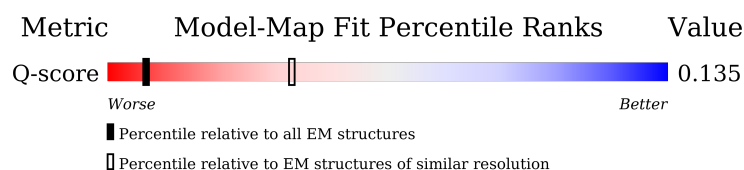
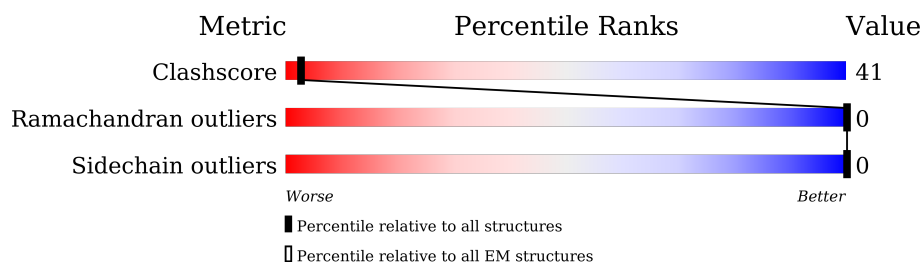
EMDB validation analysis : 0.0.1.dev132  
MolProbity : 4-5-2 with Phenix2.0  
Percentile statistics : 20250101.v01 (using entries in the PDB archive January 1st 2025)  
EM percentile statistics : 202505.v01 (Using data in the EMDB archive up until May 2025)  
MapQ : 1.9.13  
Ideal geometry (proteins) : Engh & Huber (2001)  
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)  
Validation Pipeline (wwPDB-VP) : 2.49

# 1 Overall quality at a glance

The following experimental techniques were used to determine the structure:  
*ELECTRON MICROSCOPY*

The reported resolution of this entry is 6.85 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.



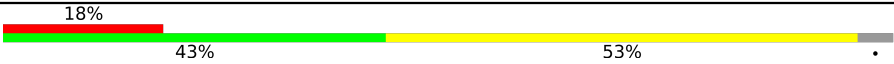

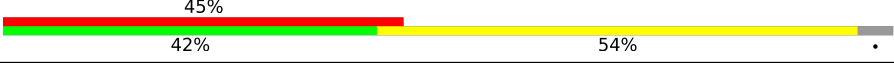

Metric	Whole archive (#Entries)	EM structures (#Entries)	Similar EM resolution (#Entries, resolution range(Å))
Clashscore	229148	23984	-
Ramachandran outliers	224038	23583	-
Sidechain outliers	223484	23102	-
Q-score	-	25397	459 ( 6.35 - 7.30 )

The table below summarises the geometric issues observed across the polymeric chains and their fit to the map. The red, orange, yellow and green segments of the 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 EM map (all-atom inclusion  $< 40\%$ ). The numeric value is given above the bar.

Mol	Chain	Length	Quality of chain
1	A	2053	<div> <div>9%</div> <div>32%</div> <div>50%</div> <div>18%</div> </div>
1	C	2053	<div> <div>9%</div> <div>32%</div> <div>50%</div> <div>18%</div> </div>
1	E	2053	<div> <div>8%</div> <div>32%</div> <div>50%</div> <div>18%</div> </div>
1	G	2053	<div> <div>7%</div> <div>32%</div> <div>50%</div> <div>18%</div> </div>

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Length	Quality of chain
2	B	184	 18% 43% 53% .
2	D	184	 15% 42% 54% .
2	F	184	 45% 42% 54% .
2	H	184	 47% 40% 57% .

## 2 Entry composition

There are 2 unique types of molecules in this entry. The entry contains 59424 atoms, of which 0 are hydrogens and 0 are deuteriums.

In the tables below, 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 Dedicator of cytokinesis protein 6.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	A	1688	Total	C	N	O	S	0	0
			13471	8606	2331	2475	59		
1	C	1688	Total	C	N	O	S	0	0
			13471	8606	2331	2475	59		
1	E	1688	Total	C	N	O	S	0	0
			13471	8606	2331	2475	59		
1	G	1688	Total	C	N	O	S	0	0
			13471	8606	2331	2475	59		

There are 24 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	-5	GLY	-	expression tag	UNP Q96HP0
A	-4	GLY	-	expression tag	UNP Q96HP0
A	-3	SER	-	expression tag	UNP Q96HP0
A	-2	GLY	-	expression tag	UNP Q96HP0
A	-1	GLY	-	expression tag	UNP Q96HP0
A	0	SER	-	expression tag	UNP Q96HP0
C	-5	GLY	-	expression tag	UNP Q96HP0
C	-4	GLY	-	expression tag	UNP Q96HP0
C	-3	SER	-	expression tag	UNP Q96HP0
C	-2	GLY	-	expression tag	UNP Q96HP0
C	-1	GLY	-	expression tag	UNP Q96HP0
C	0	SER	-	expression tag	UNP Q96HP0
E	-5	GLY	-	expression tag	UNP Q96HP0
E	-4	GLY	-	expression tag	UNP Q96HP0
E	-3	SER	-	expression tag	UNP Q96HP0
E	-2	GLY	-	expression tag	UNP Q96HP0
E	-1	GLY	-	expression tag	UNP Q96HP0
E	0	SER	-	expression tag	UNP Q96HP0
G	-5	GLY	-	expression tag	UNP Q96HP0
G	-4	GLY	-	expression tag	UNP Q96HP0
G	-3	SER	-	expression tag	UNP Q96HP0
G	-2	GLY	-	expression tag	UNP Q96HP0

*Continued on next page...*

*Continued from previous page...*

Chain	Residue	Modelled	Actual	Comment	Reference
G	-1	GLY	-	expression tag	UNP Q96HP0
G	0	SER	-	expression tag	UNP Q96HP0

- Molecule 2 is a protein called Ras-related C3 botulinum toxin substrate 1.

Mol	Chain	Residues	Atoms					AltConf	Trace
2	B	177	Total	C	N	O	S	0	0
			1385	890	228	259	8		
2	D	177	Total	C	N	O	S	0	0
			1385	890	228	259	8		
2	F	177	Total	C	N	O	S	0	0
			1385	890	228	259	8		
2	H	177	Total	C	N	O	S	0	0
			1385	890	228	259	8		

There are 32 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
B	-6	GLY	-	expression tag	UNP P63000
B	-5	SER	-	expression tag	UNP P63000
B	-4	SER	-	expression tag	UNP P63000
B	-3	GLY	-	expression tag	UNP P63000
B	-2	SER	-	expression tag	UNP P63000
B	-1	SER	-	expression tag	UNP P63000
B	0	GLY	-	expression tag	UNP P63000
B	15	ALA	GLY	engineered mutation	UNP P63000
D	-6	GLY	-	expression tag	UNP P63000
D	-5	SER	-	expression tag	UNP P63000
D	-4	SER	-	expression tag	UNP P63000
D	-3	GLY	-	expression tag	UNP P63000
D	-2	SER	-	expression tag	UNP P63000
D	-1	SER	-	expression tag	UNP P63000
D	0	GLY	-	expression tag	UNP P63000
D	15	ALA	GLY	engineered mutation	UNP P63000
F	-6	GLY	-	expression tag	UNP P63000
F	-5	SER	-	expression tag	UNP P63000
F	-4	SER	-	expression tag	UNP P63000
F	-3	GLY	-	expression tag	UNP P63000
F	-2	SER	-	expression tag	UNP P63000
F	-1	SER	-	expression tag	UNP P63000
F	0	GLY	-	expression tag	UNP P63000
F	15	ALA	GLY	engineered mutation	UNP P63000

*Continued on next page...*

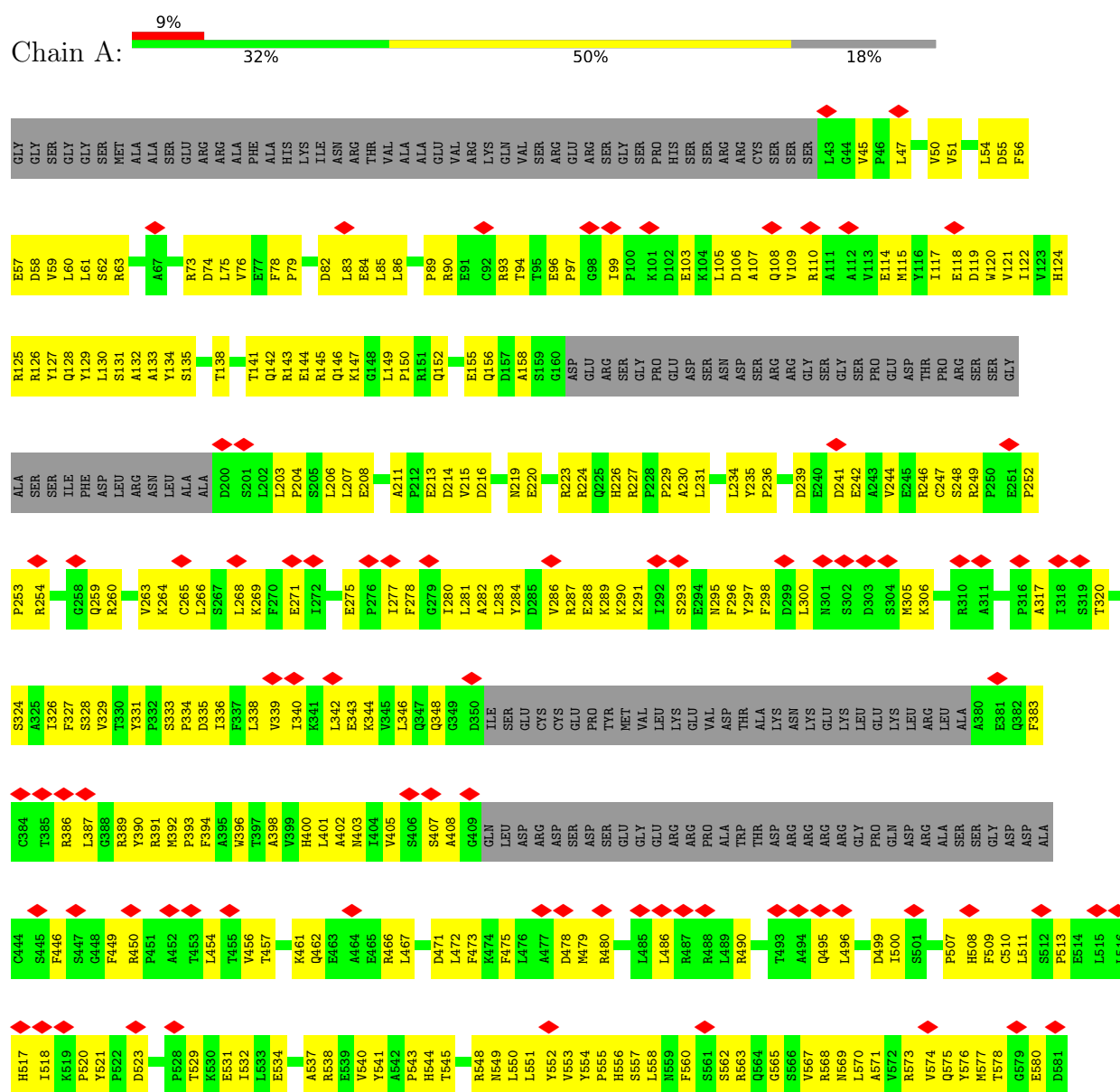
*Continued from previous page...*

Chain	Residue	Modelled	Actual	Comment	Reference
H	-6	GLY	-	expression tag	UNP P63000
H	-5	SER	-	expression tag	UNP P63000
H	-4	SER	-	expression tag	UNP P63000
H	-3	GLY	-	expression tag	UNP P63000
H	-2	SER	-	expression tag	UNP P63000
H	-1	SER	-	expression tag	UNP P63000
H	0	GLY	-	expression tag	UNP P63000
H	15	ALA	GLY	engineered mutation	UNP P63000

### 3 Residue-property plots

These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and atom inclusion in map 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 diamond above a residue indicates a poor fit to the EM map for this residue (all-atom inclusion < 40%). 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: Dedicator of cytokinesis protein 6







M1504	K1567	L1633	M1704	E1773	R1837	T1900	L1985	LEU
Q1505	M1568	L1634	E1705	P1774	V1838	P1901	R1986	
V1506	K1569	E1635	V1706	T1775	T1839	E1902	K1987	
E1507	E1570	D1636	V1707	I1776	Y1840	E1903	N1988	
M1508	H1571	H1637	M1708	T1777	F1841	I1906	L1991	
S1509	K1572	H1638	N1709	L1782	R1842	E1907	I1992	
L1510	E1573	H1639	L1710	S1783	R1843	D1908	D1995	
S1511	D1574	L1640	I1711	H1784	M1844	E1909	Q1996	
S1512	P1575	S1646	P1712	L1786	R1845	M1909	K1997	
L1513	L1578	Q1647	L1713	L1787	G1846	Q1910	E1998	
V1514	I1579	Q1648	L1714	L1788	L1847	Q1911	Y1999	
G1515	D1580	M1649	E1715	E1789	R1848	K1912	H2000	
T1516	L1581	L1650	R1718	F1788	R1849	T1913	R1914	
T1517	M1582	S1651	D1719	F1789	F1850	T1920	T1920	
L1518	Y1583	L1652	H1720	T1790	L1851	F1852	D1923	
N1519	R1584	Y1583	K1721	T1791	F1853	T1854	P1924	
F1520	I1585	L1653	L1722	E1792	R1793	T1854	P1925	
S1521	S1520	V1654	L1723	F1794	G1795	F1855	D1926	
E1522	E1522	L1655	L1724	D1796	D1797	T1857	K1928	
E1523	R1587	E1656	A1725	D1797	V1798	A1862	M1929	
H1524	G1588	L1657	H1726	D1798	H1863	G1864	L1930	
L1525	Y1589	S1658	H1727	V1799	E1865	E1865	L1931	
Q1526	K1590	D1662	G1728	E1800	L1866	L1866	P1932	
R1527	G1591	D1663	Q1731	I1801	L1867	V1933	V1933	
S1528	S1528	I1664	E1732	I1802	E1868	L2014	A2013	
L1529	P1593	T1664	K1803	D1804	S1805	Q2015	Q2015	
K1530	D1594	S1666	F1734	S1806	H1870	G1936	P2016	
T1531	R1596	P1667	I1737	N1806	K1871	S1937	L2017	
L1532	L1597	T1667	M1738	P1807	K1872	V1938	L2018	
L1533	L1598	E1670	H1739	D1809	T1873	G1939	T2019	
T1534	T1598	G1671	S1741	K1810	L1875	P1940	GLN	
V1535	W1599	K1676	E1745	S1811	L1876	L1947	ARG	
A1536	L1600	F1677	R1746	L1812	S1877	Q1951	LEU	
E1537	Q1601	T1679	V1747	L1813	T1878	V1952	PRO	
D1538	M1602	E1680	F1748	D1814	H1880	F1953	GLN	
D1539	M1603	L1681	G1749	K1817	A1881	L1954	ALA	
M1540	K1606	G1682	Y1751	A1818	F1882	K1962	PRO	
R1543	H1607	L1683	F1752	T1819	Y1884	L1963	THR	
F1547	L1610	V1684	R1753	Q1821	I1885	H1966	PRO	
E1548	A1613	G1685	A1756	I1822	K1886	H1967	GLY	
Q1550	E1615	L1686	F1757	T1823	T1887	M1968	LEU	
V1551	A1616	L1687	Y1757	E1688	R1888	K1969	ARG	
Q1552	A1617	E1689	G1758	C1892	I1889	L1970	ASN	
L1553	Q1618	A1690	F1761	Y1828	V1891	R1971	SER	
M1555	C1619	Y1693	L1764	F1829	H1893	F1974	ASN	
F1556	M1620	T1694	D1765	D1830	R1894	K1979	ALA	
N1557	H1622	T1695	E1766	T1831	E1895	E1982	SER	
L1558	A1623	R1696	Q1767	E1832	E1896	P1987	PHE	
M1559	L1626	G1697	Y1770	E1833	T1897	V1898	ARG	
L1560	L1627	G1698	Y1771	L1834	K1835	D1898	LYS	
I1561	T1562	L1699	I1771	D1836	L1899	A1984	ALA	
L1563	A1628	Y1630	K1772				ASP	
D1564	E1629							
T1565	Y1630							
V1566								

• Molecule 1: Dedicator of cytokinesis protein 6



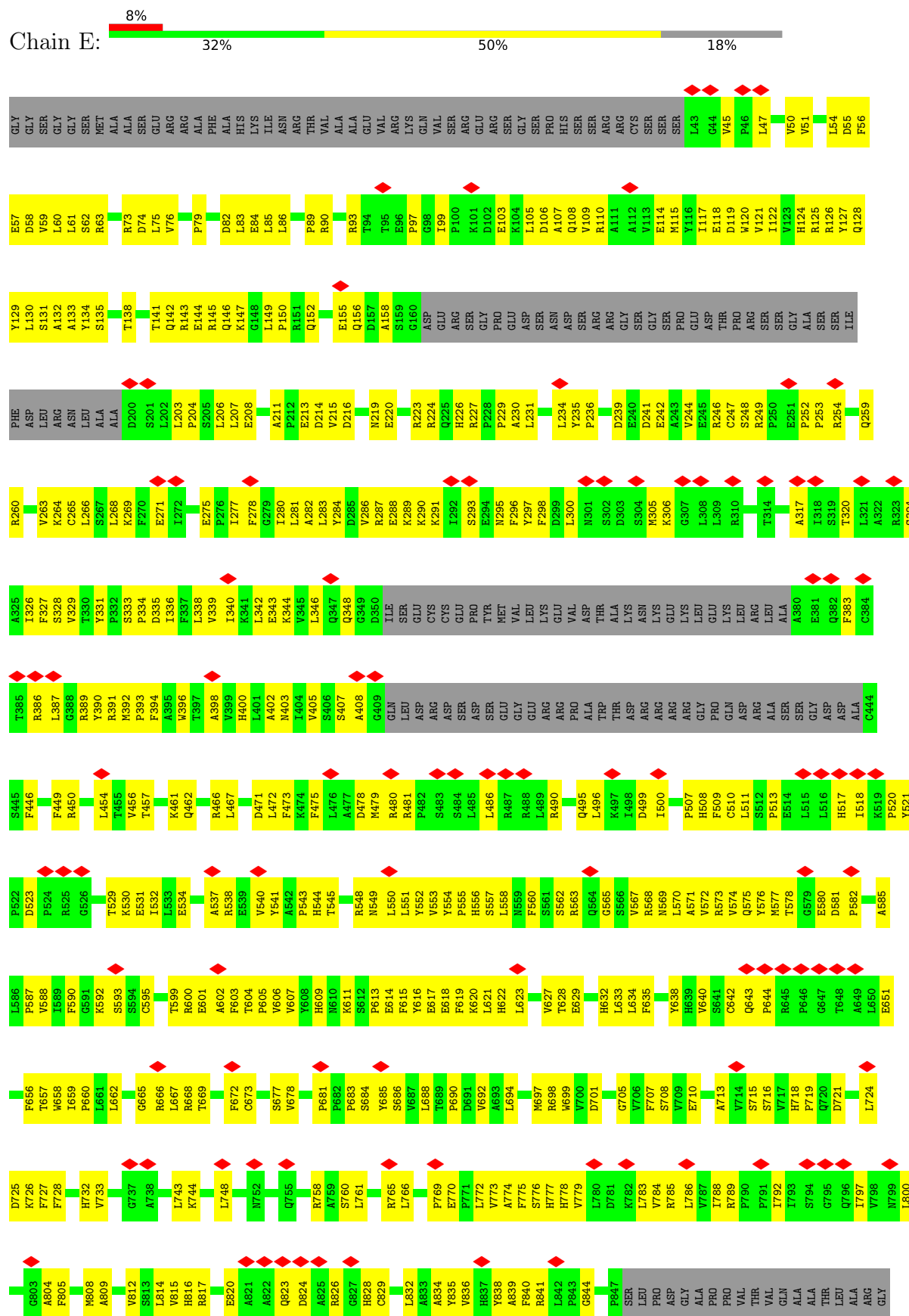
ILE	PHE	ASP	LEU	ARG	ASN	LEU	ALA	D200	S201	L202	L203	P204	S205	L206	L207	E208	A211	E212	E213	D214	V215	D216	R217	N219	E220	T221	L222	R223	R224	Q225	H226	R227	P228	P229	A230	L231	L234	Y235	P236	D239	D240	D241	E242	A243	V244	E245	R246	C247	S248	R249	P250	E251	P252	P253
ILE	PHE	ASP	LEU	ARG	ASN	LEU	ALA	D200	S201	L202	L203	P204	S205	L206	L207	E208	A211	E212	E213	D214	V215	D216	R217	N219	E220	T221	L222	R223	R224	Q225	H226	R227	P228	P229	A230	L231	L234	Y235	P236	D239	D240	D241	E242	A243	V244	E245	R246	C247	S248	R249	P250	E251	P252	P253
ILE	PHE	ASP	LEU	ARG	ASN	LEU	ALA	D200	S201	L202	L203	P204	S205	L206	L207	E208	A211	E212	E213	D214	V215	D216	R217	N219	E220	T221	L222	R223	R224	Q225	H226	R227	P228	P229	A230	L231	L234	Y235	P236	D239	D240	D241	E242	A243	V244	E245	R246	C247	S248	R249	P250	E251	P252	P253
ILE	PHE	ASP	LEU	ARG	ASN	LEU	ALA	D200	S201	L202	L203	P204	S205	L206	L207	E208	A211	E212	E213	D214	V215	D216	R217	N219	E220	T221	L222	R223	R224	Q225	H226	R227	P228	P229	A230	L231	L234	Y235	P236	D239	D240	D241	E242	A243	V244	E245	R246	C247	S248	R249	P250	E251	P252	P253
ILE	PHE	ASP	LEU	ARG	ASN	LEU	ALA	D200	S201	L202	L203	P204	S205	L206	L207	E208	A211	E212	E213	D214	V215	D216	R217	N219	E220	T221	L222	R223	R224	Q225	H226	R227	P228	P229	A230	L231	L234	Y235	P236	D239	D240	D241	E242	A243	V244	E245	R246	C247	S248	R249	P250	E251	P252	P253
ILE	PHE	ASP	LEU	ARG	ASN	LEU	ALA	D200	S201	L202	L203	P204	S205	L206	L207	E208	A211	E212	E213	D214	V215	D216	R217	N219	E220	T221	L222	R223	R224	Q225	H226	R227	P228	P229	A230	L231	L234	Y235	P236	D239	D240	D241	E242	A243	V244	E245	R246	C247	S248	R249	P250	E251	P252	P253
ILE	PHE	ASP	LEU	ARG	ASN	LEU	ALA	D200	S201	L202	L203	P204	S205	L206	L207	E208	A211	E212	E213	D214	V215	D216	R217	N219	E220	T221	L222	R223	R224	Q225	H226	R227	P228	P229	A230	L231	L234	Y235	P236	D239	D240	D241	E242	A243	V244	E245	R246	C247	S248	R249	P250	E251	P252	P253
ILE	PHE	ASP	LEU	ARG	ASN	LEU	ALA	D200	S201	L202	L203	P204	S205	L206	L207	E208	A211	E212	E213	D214	V215	D216	R217	N219	E220	T221	L222	R223	R224	Q225	H226	R227	P228	P229	A230	L231	L234	Y235	P236	D239	D240	D241	E242	A243	V244	E245	R246	C247	S248	R249	P250	E251	P252	P253
ILE	PHE	ASP	LEU	ARG	ASN	LEU	ALA	D200	S201	L202	L203	P204	S205	L206	L207	E208	A211	E212	E213	D214	V215	D216	R217	N219	E220	T221	L222	R223	R224	Q225	H226	R227	P228	P229	A230	L231	L234	Y235	P236	D239	D240	D241	E242	A243	V244	E245	R246	C247	S248	R249	P250	E251	P252	P253
ILE	PHE	ASP	LEU	ARG	ASN	LEU	ALA	D200	S201	L202	L203	P204	S205	L206	L207	E208	A211	E212	E213	D214	V215	D216	R217	N219	E220	T221	L222	R223	R224	Q225	H226	R227	P228	P229	A230	L231	L234	Y235	P236	D239	D240	D241	E242	A243	V244	E245	R246	C247	S248	R249	P250	E251	P252	P253
ILE	PHE	ASP	LEU	ARG	ASN	LEU	ALA	D200	S201	L202	L203	P204	S205	L206	L207	E208	A211	E212	E213	D214	V215	D216	R217	N219	E220	T221	L222	R223	R224	Q225	H226	R227	P228	P229	A230	L231	L234	Y235	P236	D239	D240	D241	E242	A243	V244	E245	R246	C247	S248	R249	P250	E251	P252	P253
ILE	PHE	ASP	LEU	ARG	ASN	LEU	ALA	D200	S201	L202	L203	P204	S205	L206	L207	E208	A211	E212	E213	D214	V215	D216	R217	N219	E220	T221	L222	R223	R224	Q225	H226	R227	P228	P229	A230	L231	L234	Y235	P236	D239	D240	D241	E242	A243	V244	E245	R246	C247	S248	R249	P250	E251	P252	P253
ILE	PHE	ASP	LEU	ARG	ASN	LEU	ALA	D200	S201	L202	L203	P204	S205	L206	L207	E208	A211	E212	E213	D214	V215	D216	R217	N219	E220	T221	L222	R223	R224	Q225	H226	R227	P228	P229	A230	L231	L234	Y235	P236	D239	D240	D241	E242	A243	V244	E245	R246	C247	S248	R249	P250	E251	P252	P253
ILE	PHE	ASP	LEU	ARG	ASN	LEU	ALA	D200	S201	L202	L203	P204	S205	L206	L207	E208	A211	E212	E213	D214	V215	D216	R217	N219	E220	T221	L222	R223	R224	Q225	H226	R227	P228	P229	A230	L231	L234	Y235	P236	D239	D240	D241	E242	A243	V244	E245	R246	C247	S248	R249	P250	E251	P252	P253
ILE	PHE	ASP	LEU	ARG	ASN	LEU	ALA	D200	S201	L202	L203	P204	S205	L206	L207	E208	A211	E212	E213	D214	V215	D216	R217	N219	E220	T221	L222	R223	R224	Q225	H226	R227	P228	P229	A230	L231	L234	Y235	P236	D239	D240	D241	E242	A243	V244	E245	R246	C247	S248	R249	P250	E251	P252	P253
ILE	PHE	ASP	LEU	ARG	ASN	LEU	ALA	D200	S201	L202	L203	P204	S205	L206	L207	E208	A211	E212	E213	D214	V215	D216	R217	N219	E220	T221	L222	R223	R224	Q225	H226	R227	P228	P229	A230	L231	L234	Y235	P236	D239	D240	D241	E242	A243	V244	E245	R246	C247	S248	R249	P250	E251	P252	P253
ILE	PHE	ASP	LEU	ARG	ASN	LEU	ALA	D200	S201	L202	L203	P204	S205	L206	L207	E208	A211	E212	E213	D214	V215	D216	R217	N219	E220	T221	L222	R223	R224	Q225	H226	R227	P228	P229	A230	L231	L234	Y235	P236	D239	D240	D241	E242	A243	V244	E245	R246	C247	S248	R249	P250	E251	P252	P253
ILE	PHE	ASP	LEU	ARG	ASN	LEU	ALA	D200	S201	L202	L203	P204	S205	L206	L207	E208	A211	E212	E213	D214	V215	D216	R217	N219	E220	T221	L222	R223	R224	Q225	H226	R227	P228	P229	A230	L231	L234	Y235	P236	D239	D240	D241	E242	A243	V244	E245	R246	C247	S248	R249	P250	E251	P252	P253
ILE	PHE	ASP	LEU	ARG	ASN	LEU	ALA	D200	S201	L202	L203	P204	S205	L206	L207	E208	A211	E212	E213	D214	V215	D216	R217	N219	E220	T221	L222	R223	R224	Q225	H226	R227	P228	P229	A230	L231	L234	Y235	P236	D239	D240	D241	E242	A243	V244	E245	R246	C247	S248	R249	P250	E251	P252	P253
ILE	PHE	ASP	LEU	ARG	ASN	LEU	ALA	D200	S201	L202	L203	P204	S205	L206	L207	E208	A211	E212	E213	D214	V215	D216	R217	N219	E220	T221	L222	R223	R224	Q225	H226	R227	P228	P229	A230	L231	L234	Y235	P236	D239	D240	D241	E242	A243	V244	E245	R246	C247	S248	R249	P250	E251	P252	P253
ILE	PHE	ASP	LEU	ARG	ASN	LEU	ALA	D200	S201	L202	L203	P204	S205	L206	L207	E208	A211	E212	E213	D214	V215	D216	R217	N219	E220	T221	L222	R223	R224	Q225	H226	R227	P228	P229	A230	L231	L234	Y235	P236	D239	D240	D241	E242	A243	V244	E245	R246	C247	S248	R249	P250	E251	P252	P253
ILE	PHE	ASP	LEU	ARG	ASN	LEU	ALA	D200	S201	L202	L203	P204	S205	L206	L207	E208	A211	E212	E213	D214	V215	D216	R217	N219	E220	T221	L222	R223	R224	Q225	H226	R227	P228	P229	A230	L231	L234	Y235	P236	D239	D240	D241	E242	A243	V244	E245	R246	C247	S248	R249	P250	E251	P252	P253
ILE	PHE	ASP	LEU	ARG	ASN	LEU	ALA	D200	S201	L202	L203	P204	S205	L206	L207	E208	A211	E212	E213	D214	V215	D216	R217	N219	E220	T221	L222	R223	R224	Q225	H226	R227	P228	P229	A230	L231	L234	Y235	P236	D239	D240	D241	E242	A243	V244	E245	R246	C247	S248	R249	P250	E251	P252	P253
ILE	PHE	ASP	LEU	ARG	ASN	LEU	ALA	D200	S201	L202	L203	P204	S205	L206	L207	E208	A211	E212	E213	D214	V215	D216	R217	N219	E220	T221	L222	R223	R224	Q225	H226	R227	P228	P229	A230	L231	L234	Y235	P236	D239	D240	D241	E242	A243	V244	E245	R246	C247	S248	R249	P250	E251	P252	P253
ILE	PHE	ASP	LEU	ARG	ASN	LEU	ALA	D200	S201	L202	L203	P204	S205	L206	L207	E208	A211	E212	E213	D214	V215	D216	R217	N219	E220	T221	L222	R223	R224	Q225	H226	R227	P228	P229	A230	L231	L234	Y235	P236	D239	D240	D241	E242	A243	V244	E245	R246	C247	S248	R249	P250	E251	P252	P253
ILE	PHE	ASP	LEU	ARG	ASN	LEU	ALA	D200	S201	L202	L203	P204	S205	L206	L207	E208	A211	E212	E213	D214	V215	D216	R217	N219	E220	T221	L222	R223	R224	Q225	H226	R227	P228	P229	A230	L231	L234	Y235	P236	D239	D240	D241	E242	A243	V244	E245	R246	C247	S248	R249	P250	E251	P252	P253
ILE	PHE	ASP	LEU	ARG	ASN	LEU	ALA	D200	S201	L202	L203	P204	S205	L206	L207	E208	A211	E212	E213	D214	V215	D216	R217	N219	E220	T221	L222	R223	R224	Q225	H226	R227	P228	P229	A230	L231	L234	Y235	P236	D239	D240	D241	E242	A243	V244	E245	R246	C247	S248	R249	P250	E251	P252	P253
ILE	PHE	ASP	LEU	ARG	ASN	LEU	ALA	D200	S201	L202	L203	P204	S205	L206	L207	E208	A211	E212	E213	D214	V215	D216	R217	N219	E220	T221	L222	R223	R224	Q225	H226	R227	P228	P229	A230	L231	L234	Y235	P236	D239	D240	D241	E242	A243	V244	E245	R246	C247	S248	R249	P250	E251	P252	P253
ILE	PHE	ASP	LEU	ARG	ASN	LEU	ALA	D200	S201	L202	L203	P204	S205	L206	L207	E208	A211	E212	E213	D214	V215	D216	R217	N219	E220	T221	L222	R223	R224	Q225	H226	R227	P228	P229	A230	L231																		



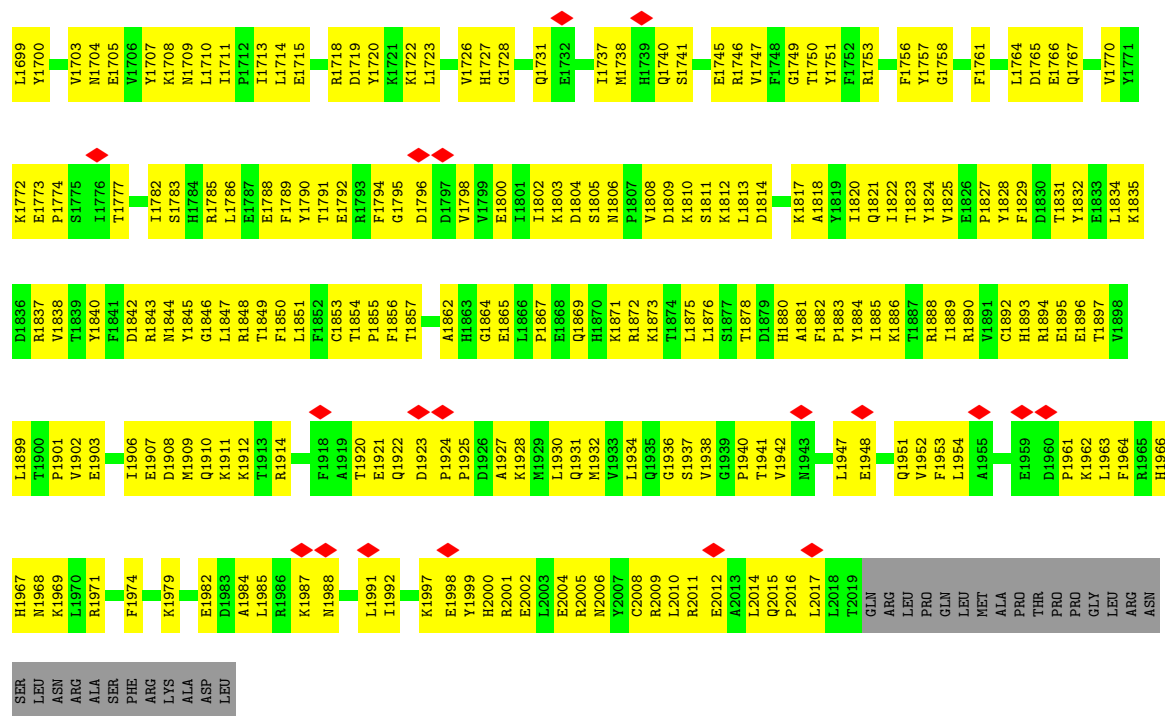


● Molecule 1: Dedicator of cytokinesis protein 6

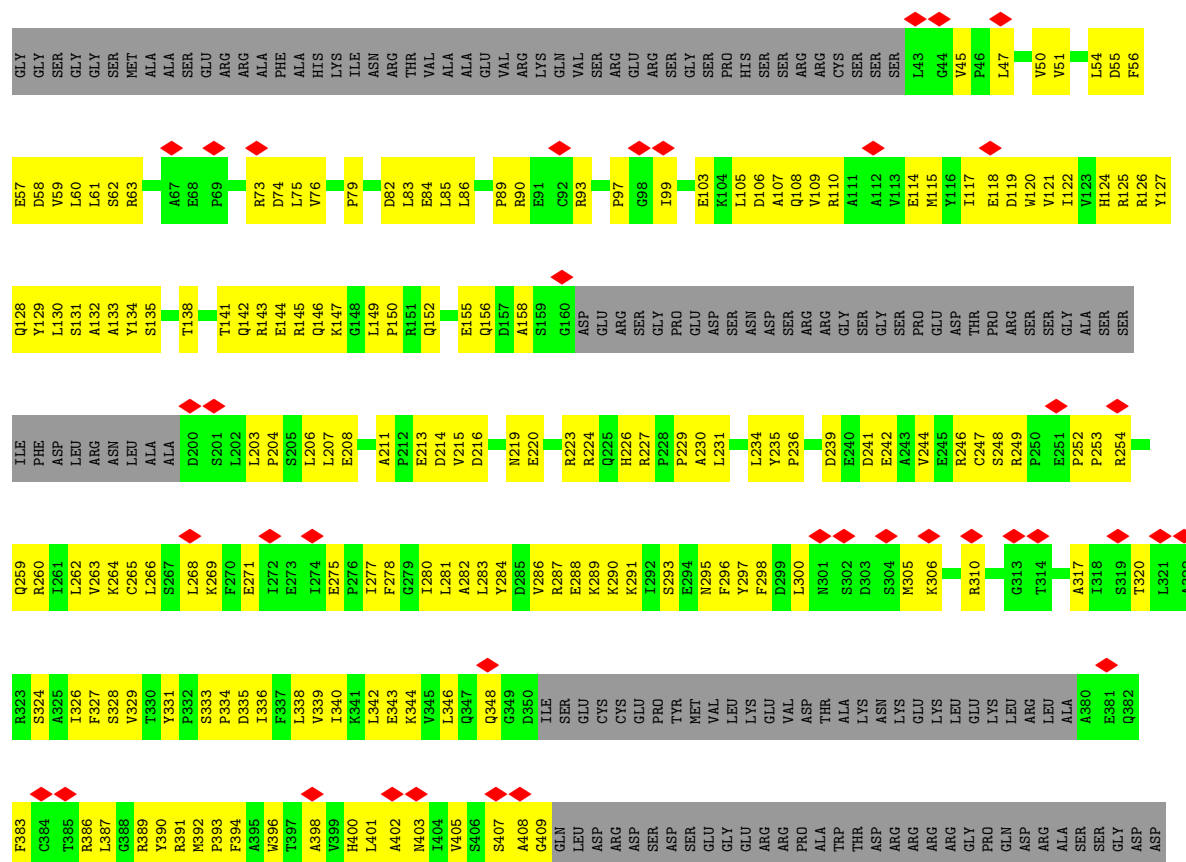
Chain E:







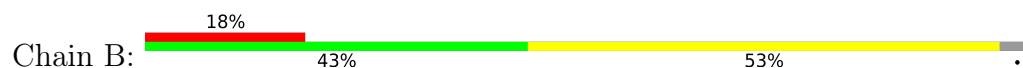
• Molecule 1: Dedicator of cytokinesis protein 6



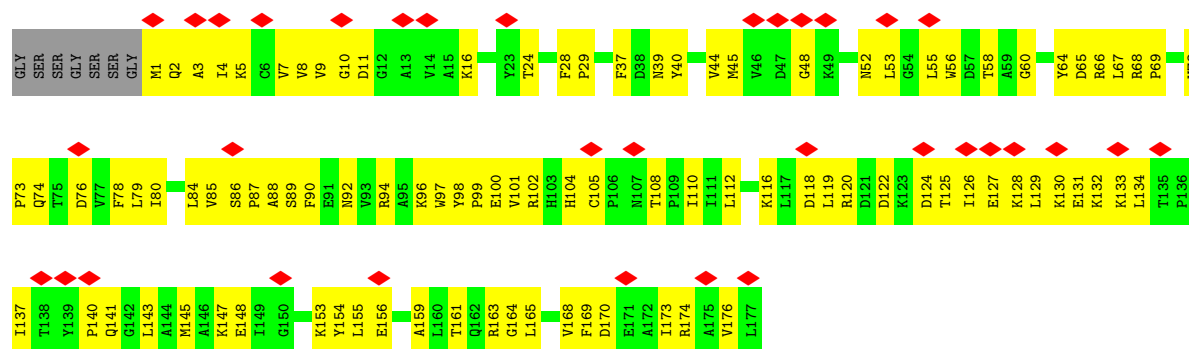
V1257	L1258	W1259	V1260	L1261	K1262	N1263	T1264	E1265	P1266	A1267	L1268	L1269	Q1270	R1271	W1272	A1273	T1274	D1275	L1276	T1277	L1278	P1279	Q1280	L1281	G1282	R1283	L1284	L1285	D1286	L1287	L1288	Y1289	G1290	C1291	L1292	A1293	A1294	E1295	F1296	Y1297	K1298	G1299	A1302	E1303	R1305	I1306	N1307	SER	LEU	THR	PHE	LYS	LYS	SER	LEU	ASP	MET
ALA	C444	S445	F446	F449	R450	L454	T455	V456	T457	K461	Q462	E463	A464	E465	R466	L467	S468	D469	E470	L472	F473	F474	F475	L476	A477	D478	M479	R480	S484	L485	L486	R490	Q495	L496	D499	I500	E505	N506	P507	H508	F509	C510	L511	S512	P513	H517	I518	K519	P520								
Y521	P522	S523	P524	R525	T529	K530	E531	I532	L533	E534	A537	R538	E539	V540	P541	A542	P543	H544	T545	R548	N549	L550	F551	Y552	V553	Y554	P555	H556	S557	F560	S561	S562	R563	Q564	G565	S566	V567	R568	N569	L570	A571	V572	R573	V574	Q575	Y576	M577	T578	G579	E580	S583	Q584	A585	L586			
P587	V588	I589	F590	G591	K592	S593	S594	C595	S596	T599	R600	E601	A602	F603	T604	P605	V606	V607	Y608	H609	K611	S612	P613	F615	Y616	E617	E618	F619	K620	S621	L622	L623	P624	A625	C626	G627	T628	E629	M630	H631	H632	L633	L634	F635	Y638	H639	V640	S641	C642	Q643	P644	R645	P646	G647	T648		
A649	L650	E651	F656	L657	W658	P659	P660	L661	L662	R666	L667	R668	T669	F672	C673	S677	V678	P681	P682	P683	S684	Y685	S686	V687	L688	T689	P690	H691	V692	A693	L694	P695	G696	M697	R698	D701	G702	H703	K704	G705	V706	F707	S708	V709	E710	A713	S715	S716	V717	H718	P719						
Q720	D721	L724	D725	K726	F727	F728	H732	V733	G737	L743	K744	L748	Q755	E756	L757	R758	A759	S760	L761	R765	L766	P769	E770	V773	A774	F775	S776	H777	H778	V779	L780	L783	R784	R785	L786	V787	I788	R789	P790	P791	I792	I793	S794	I797	V798	N799											
L800	G801	R802	G803	A804	F805	M808	A809	V812	S813	L814	V815	H816	R817	E820	A821	A822	Q823	D824	A825	G827	H828	C829	L832	A833	A834	Y835	V836	H837	Y838	A839	F840	R841	L842	P843	G844	P847	SER	LEU	PRO	ASP	GLY	ALA	ALA	PRO	VAL	THR	GLN	ALA	ALA	THR	LEU	ALA					
ARG	GLY	SER	GLY	ARG	PRO	ALA	SER	LEU	TVR	LEU	ALA	ARG	SER	LYS	ILE	SER	SER	ASN	PRO	ASP	LEU	ALA	VAL	D897	F898	V899	S900	R901	A839	F840	R841	L842	P843	G844	P847	SER	LEU	PRO	ASP	GLY	ALA	ALA	PRO	VAL	THR	GLN	ALA	ALA	THR	LEU	ALA						
A926	I927	L928	Q929	H930	A931	L1004	W932	F933	F934	F935	Q936	L937	N938	Y939	X940	S941	N942	H945	L946	L947	Q950	R951	T954	P955	R956	K957	L958	R959	G962	R963	F964	L965	T968	V972	Y975	G976	L977	E978	V983	H984	L989	A990	E991	H992	L993	H994	A995	L997									
A998	F999	L1001	S1002	D1003	L1004	L1005	S1006	L1007	V1008	D1009	V1010	G1011	F1012	V1013	F1014	S1015	L1016	V1017	R1018	Y1021	K1022	Q1023	V1024	A1025	T1026	K1027	L1028	S1031	P1034	L1037	L1038	T1039	P1102	F1103	R1104	Q1105	Q1106	H1107	F1108	L1109	A1110	G1111	L1112	L1113	L1114	T1115	E1116	L1117	A1120	L1121	E1122	P1123	E1124				
C1062	P1063	L1064	S1065	PRO	PRO	ALA	SER	PRO	SER	PRO	SER	VAL	SER	SER	THR	THR	GLN	SER	SER	PHE	SER	SER	Q1087	D1090	P1091	K1092	V1093	T1094	S1095	M1096	L1099	S1100	G1101	P1102	F1103	R1104	Q1105	Q1106	H1107	F1108	L1109	A1110	G1111	L1112	L1113	L1114	T1115	E1116	L1117	A1120	L1121	E1122	P1123	E1124			
A1128	F1129	L1130	L1131	H1132	K1133	K1134	A1135	A1136	T1137	A1138	V1139	L1142	L1143	L1144	H1146	D1149	P1150	R1151	Y1152	A1153	E1154	A1155	T1156	V1157	K1158	A1159	R1160	V1161	A1162	E1163	L1164	Y1165	L1166	P1167	L1168	L1169	S1170	I1171	A1172	R1173	D1174	T1175	L1176	P1177	R1178	L1179	F1182	A1183	E1184	GLY	PRO	GLY	GLN	ARG	SER		
ARG	LEU	ALA	SER	MET	LEU	ASP	ASP	THR	GLU	GLY	GLY	GLY	ASP	ILE	ALA	THR	ILE	ASN	PRO	SER	VAL	ALA	MET	ALA	ILE	ALA	GLY	GLY	PRO	LEU	ALA	PRO	GLY	ARG	ILE	SER	GLN	GLY	PRO	THR	ALA	SER	ARG	ALA	GLY	C1243	E1248	S1249	S1250	A1255	C1256						

ALA	LYS	V1380	L1443	V1514	L1578	V1635	P1712	S1763	N1844	D1908	K1979
SER	ALA	E1381	E1446	G1515	I1579	S1646	I1713	H1784	Y1845	M1909	E1982
PHE	ARG	G1382	K1446	T1516	D1580	F1647	L1714	L1765	G1846	Q1910	D1983
ARG	LEU	N1383	F1447	T1517	L1581	Q1648	E1715	L1766	L1847	K1911	A1984
LYS	GLU	L1384	E1453	Q1518	M1582	N1649	R1718	E1767	R1848	K1912	L1985
ASP	GLU	A1385	E1454	N1519	Y1583	I1650	D1719	F1768	F1850	R1914	R1986
LEU	ALA	T1386	C1459	F1520	R1584	S1651	Y1720	F1769	L1851	T1920	K1987
	ILE	S1389	E1521	S1522	I1585	N1652	K1721	T1790	C1853	Q1921	N1988
	LEU	L1390	E1523	E1524	R1587	N1653	L1722	T1791	T1854	Q1922	K1989
	THR	V1391	L1462	H1524	G1588	V1654	L1723	E1792	F1855	D1923	A1990
	ILE	V1392	C1463	L1525	Y1589	E1656	V1726	F1794	T1856	P1924	L1991
	GLY	L1393	R1464	L1526	Q1590	E1657	H1727	G1795	T1857	P1925	I1992
	ALA	D1394	R1465	R1527	G1591	S1658	G1728	D1796	A1862	D1926	G1993
	ARG	T1395	L1466	S1528	P1592	D1662	Q1731	V1798	H1863	A1927	P1994
	GLN	L1396	L1467	L1529	P1593	D1663	E1732	V1799	G1864	M1929	D1995
	GLU	E1397	R1468	K1530	R1596	L1664	A1733	E1800	E1865	L1930	Q1996
	MET	I1398	H1469	T1531	L1597	L1665	I1737	I1801	L1866	Q1931	K1997
	VAL	T1399	C1470	T1532	T1598	S1666	H1738	I1802	P1867	M1932	E1998
	ARG	Q1401	R1473	L1533	W1599	P1667	H1739	K1803	E1868	V1933	Y1999
	ARG	T1402	S1475	Y1535	L1600	D1688	Q1740	D1804	Q1869	L1934	H2000
	SER	L1403	T1476	E1536	Q1601	E1689	S1741	S1805	K1870	Q1935	R2001
	GLU	S1406	T1477	E1537	M1602	G1670	E1745	N1806	K1871	S1936	E2002
	ARG	E1407	R1478	E1538	M1603	G1671	R1746	V1808	K1872	S1937	L2003
	PRO	A1408	T1479	E1539	K1606	K1676	R1747	D1809	L1873	V1938	E2004
	GLY	A1410	H1480	M1540	H1607	K1677	E1748	K1810	T1874	G1939	R2005
	ASN	S1411	S1482		L1610	F1678	G1749	S1811	L1875	P1940	N2006
	PRO	V1412	A1483	F1547	H1613	T1679	L1750	K1812	L1876	T1942	Y2007
	GLU	L1413	S1484	A1548	A1614	E1680	Y1751	L1813	S1877	N1943	C2008
	ASN	G1414	Y1486	E1549	E1615	G1682	F1752	D1814	T1878	D1944	L2010
	VAL	A1415	Q1550	Q1551	A1616	L1683	R1753	K1817	H1880	G1945	R2011
	ARG	V1416	L1487	Q1552	A1617	V1684	F1756	I1819	A1881	F1946	E2012
	TRP	L1417	L1488	L1554	C1619	G1685	Y1757	I1820	P1882	E1948	L2013
	ARG	K1418	M1489	D1553	Q1618	L1686	G1758	Q1821	Y1884	Q1951	L2014
	LYS	V1419	R1490	L1554	C1619	L1687	F1761	I1822	I1885	P1952	Q2015
	SER	V1420	Q1491	M1555	M1620	E1688	E1765	Y1824	K1886	F1953	P2016
	VAL	L1421	M1492	F1556	H1621	Q1689	L1764	V1825	T1887	L1954	L2017
	THR	S1423	T1495	L1557	H1622	A1690	D1765	E1826	R1888	A1955	L2018
	HIS	L1424	G1496	L1558	H1623	Y1693	D1766	P1827	I1889	E1956	T2019
	TRP	G1425	H1497	H1559	L1626	F1694	E1766	Y1828	R1890	V1891	GLN
	LYS	S1426	N1498	M1560	V1627	T1695	Q1767	Y1829	C1892	H1893	ARG
	GLN	A1427	F1499	L1562	A1628	M1696	V1770	D1830	H1894	R1894	LEU
	SER	S1428	R1501	T1563	E1629	Y1700	K1771	T1831	E1895	L1963	PRO
	ASP	A1430	V1502	D1564	L1633	G1697	E1772	E1832	E1896	T1897	ALA
	ARG	L1431	K1503	T1565	L1634	G1698	P1774	L1834	L1897	V1898	PRO
		F1432	M1504	K1566	E1635	L1699	S1775	K1835	L1898	L1899	THR
		L1433	Q1505	M1568	D1636	Y1703	I1776	D1836	T1900	P1901	PRO
		Q1434	V1506	K1569	H1637	N1704	E1777	E1837	E1901	K1967	PRO
		H1435	T1507	H1571	H1638	E1705	K1778	L1838	V1902	L1968	GLY
		G1436	S1509	Q1570	R1639	V1706	L1779	T1839	E1903	L1970	LEU
		L1437	L1510	Q1572	H1639	Y1707	A1780	Y1840	I1906	R1971	ARG
		A1438	E1512	P1574	L1640	K1708	I1781	F1841	E1907	F1974	ASN
		T1439	S1513	E1573	C1644	N1709	I1782	D1842			SER
		Q1440				L1710		R1843			LEU
						I1711					ASN
											ARG

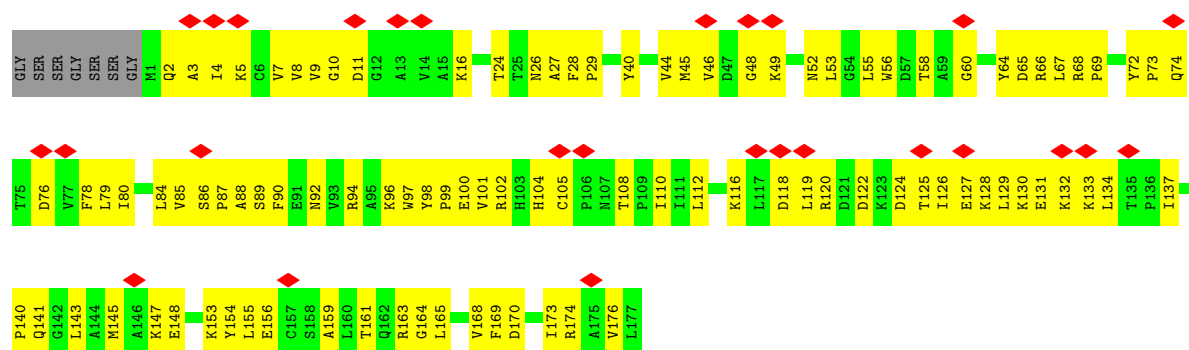
• Molecule 2: Ras-related C3 botulinum toxin substrate 1



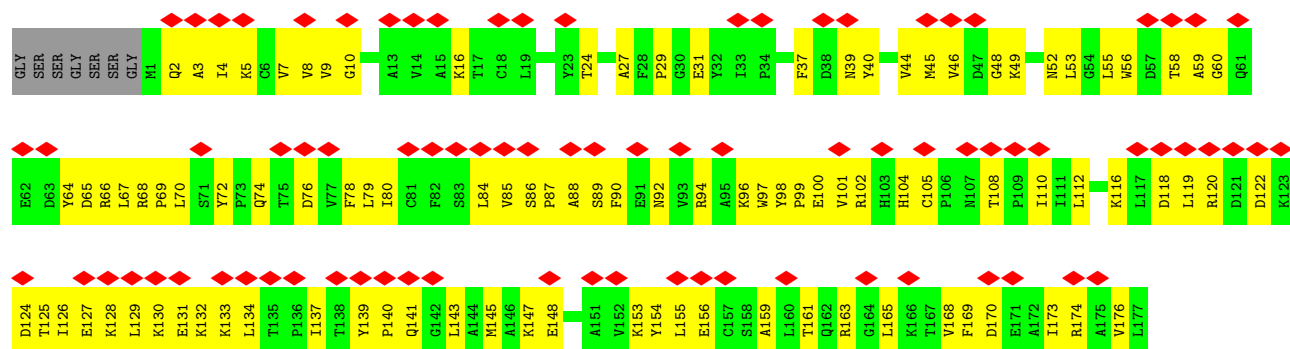




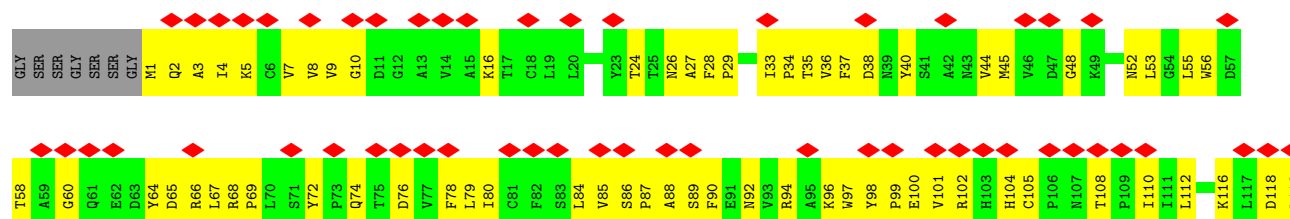
• Molecule 2: Ras-related C3 botulinum toxin substrate 1



• Molecule 2: Ras-related C3 botulinum toxin substrate 1



• Molecule 2: Ras-related C3 botulinum toxin substrate 1



R120	D121	D122	K123	D124	T125	I126	E127	K128	L129	K130	E131	K132	K133	L134	T135	P136	I137	T138	Y139	P140	Q141	G142	L143	A144	M145	M146	K147	E148	I149	G150	A151	V152	K153	Y154	L155	E156	C157	S158	A159	L160	T161	Q162	R163	G164	L165	K166	T167	V168	F169	D170	E171	A172	I173	R174	A175	V176	L177
------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------

## 4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, C2	Depositor
Number of particles used	112745	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING AND AMPLITUDE CORRECTION	Depositor
Microscope	TFS KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ( $e^-/\text{\AA}^2$ )	49.5	Depositor
Minimum defocus (nm)	800	Depositor
Maximum defocus (nm)	2000	Depositor
Magnification	64000	Depositor
Image detector	GATAN K3 (6k x 4k)	Depositor
Maximum map value	0.095	Depositor
Minimum map value	-0.058	Depositor
Average map value	0.000	Depositor
Map value standard deviation	0.003	Depositor
Recommended contour level	0.01	Depositor
Map size (Å)	452.2, 452.2, 452.2	wwPDB
Map dimensions	340, 340, 340	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	1.33, 1.33, 1.33	Depositor

## 5 Model quality [i](#)

### 5.1 Standard geometry [i](#)

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	0.30	0/13787	0.58	1/18706 (0.0%)
1	C	0.30	0/13787	0.58	1/18706 (0.0%)
1	E	0.30	0/13787	0.58	1/18706 (0.0%)
1	G	0.30	0/13787	0.58	1/18706 (0.0%)
2	B	0.24	0/1415	0.56	0/1924
2	D	0.24	0/1415	0.56	0/1924
2	F	0.24	0/1415	0.56	0/1924
2	H	0.24	0/1415	0.56	0/1924
All	All	0.29	0/60808	0.58	4/82520 (0.0%)

There are no bond length outliers.

All (4) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	1620	MET	CB-CG-SD	-5.18	97.16	112.70
1	E	1620	MET	CB-CG-SD	-5.18	97.17	112.70
1	A	1620	MET	CB-CG-SD	-5.17	97.19	112.70
1	G	1620	MET	CB-CG-SD	-5.17	97.21	112.70

There are no chirality outliers.

There are no planarity outliers.

### 5.2 Too-close contacts [i](#)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	13471	0	13448	1129	0

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	C	13471	0	13448	1131	0
1	E	13471	0	13448	1123	0
1	G	13471	0	13448	1129	0
2	B	1385	0	1407	110	0
2	D	1385	0	1407	100	0
2	F	1385	0	1407	121	0
2	H	1385	0	1407	111	0
All	All	59424	0	59420	4847	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 41.

All (4847) 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:1731:GLN:HG2	1:C:1731:GLN:HG2	1.38	1.04
1:E:1932:MET:HE2	2:F:56:TRP:HA	1.41	1.02
1:A:1731:GLN:CG	1:C:1731:GLN:HG2	1.91	0.99
1:E:1720:TYR:HB3	1:G:1738:MET:HE2	1.47	0.97
1:E:1756:PHE:O	1:E:1766:GLU:HA	1.65	0.96
1:G:1756:PHE:O	1:G:1766:GLU:HA	1.65	0.96
1:A:1756:PHE:O	1:A:1766:GLU:HA	1.65	0.96
1:C:1756:PHE:O	1:C:1766:GLU:HA	1.65	0.95
1:A:1738:MET:SD	1:C:1724:ALA:HB2	2.07	0.95
1:A:1790:TYR:O	1:A:1794:PHE:HB2	1.70	0.92
1:E:1790:TYR:O	1:E:1794:PHE:HB2	1.70	0.92
1:A:1831:THR:HG22	1:A:1835:LYS:HZ3	1.35	0.91
1:C:1790:TYR:O	1:C:1794:PHE:HB2	1.70	0.91
1:E:1720:TYR:HB3	1:G:1738:MET:CE	1.99	0.91
1:G:1790:TYR:O	1:G:1794:PHE:HB2	1.70	0.91
1:E:1831:THR:HG22	1:E:1835:LYS:HZ3	1.35	0.91
1:G:1051:HIS:HB3	1:G:1054:TYR:HB2	1.54	0.90
1:A:1051:HIS:HB3	1:A:1054:TYR:HB2	1.54	0.90
1:C:1831:THR:HG22	1:C:1835:LYS:HZ3	1.36	0.90
1:G:1831:THR:HG22	1:G:1835:LYS:HZ3	1.35	0.89
1:A:1714:LEU:O	1:A:1718:ARG:N	2.06	0.89
1:A:1723:LEU:HB3	1:C:1734:PHE:HZ	1.36	0.89
1:E:1714:LEU:O	1:E:1718:ARG:N	2.06	0.89
1:E:1051:HIS:HB3	1:E:1054:TYR:HB2	1.54	0.88
1:G:1909:MET:HE1	1:G:1974:PHE:HA	1.56	0.88
1:C:1714:LEU:O	1:C:1718:ARG:N	2.06	0.87

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1714:LEU:O	1:G:1718:ARG:N	2.06	0.87
1:C:1909:MET:HE1	1:C:1974:PHE:HA	1.56	0.87
1:E:1093:VAL:HA	1:E:1096:MET:HG2	1.57	0.87
1:A:1093:VAL:HA	1:A:1096:MET:HG2	1.57	0.87
1:A:1723:LEU:HB2	1:C:1738:MET:HE1	1.57	0.87
1:A:1724:ALA:HB2	1:C:1738:MET:SD	2.15	0.86
1:E:1582:MET:HA	1:E:1585:ILE:HD12	1.57	0.86
1:G:1582:MET:HA	1:G:1585:ILE:HD12	1.57	0.86
1:C:980:ILE:HG22	1:C:1027:ARG:HE	1.39	0.86
1:E:916:TRP:HZ2	1:E:934:PHE:HB3	1.40	0.86
1:G:223:ARG:NH2	1:G:1397:GLU:OE1	2.08	0.86
1:E:980:ILE:HG22	1:E:1027:ARG:HE	1.39	0.86
1:A:916:TRP:HZ2	1:A:934:PHE:HB3	1.40	0.86
1:C:223:ARG:NH2	1:C:1397:GLU:OE1	2.08	0.86
1:C:1582:MET:HA	1:C:1585:ILE:HD12	1.57	0.86
1:C:1051:HIS:HB3	1:C:1054:TYR:HB2	1.54	0.86
1:G:980:ILE:HG22	1:G:1027:ARG:HE	1.39	0.86
1:A:223:ARG:NH2	1:A:1397:GLU:OE1	2.08	0.86
1:A:1582:MET:HA	1:A:1585:ILE:HD12	1.57	0.85
1:C:916:TRP:HZ2	1:C:934:PHE:HB3	1.40	0.85
1:A:1909:MET:HE1	1:A:1974:PHE:HA	1.56	0.85
1:E:1909:MET:HE1	1:E:1974:PHE:HA	1.56	0.85
1:E:223:ARG:NH2	1:E:1397:GLU:OE1	2.08	0.85
2:F:94:ARG:NH1	2:F:148:GLU:OE2	2.10	0.85
1:G:132:ALA:O	1:G:246:ARG:NH2	2.10	0.84
1:E:678:VAL:HG21	1:E:698:ARG:HH11	1.43	0.84
1:E:223:ARG:NE	1:E:1394:ASP:OD1	2.10	0.84
1:G:1093:VAL:HA	1:G:1096:MET:HG2	1.57	0.84
1:A:980:ILE:HG22	1:A:1027:ARG:HE	1.39	0.84
2:D:94:ARG:NH1	2:D:148:GLU:OE2	2.10	0.84
1:E:132:ALA:O	1:E:246:ARG:NH2	2.10	0.84
1:G:678:VAL:HG21	1:G:698:ARG:HH11	1.42	0.84
1:C:132:ALA:O	1:C:246:ARG:NH2	2.10	0.84
1:C:678:VAL:HG21	1:C:698:ARG:HH11	1.43	0.84
1:C:1093:VAL:HA	1:C:1096:MET:HG2	1.57	0.84
1:A:132:ALA:O	1:A:246:ARG:NH2	2.10	0.83
2:B:94:ARG:NH1	2:B:148:GLU:OE2	2.10	0.83
1:G:223:ARG:NE	1:G:1394:ASP:OD1	2.10	0.83
1:A:1259:TRP:O	1:A:1263:ASN:ND2	2.11	0.83
1:A:223:ARG:NE	1:A:1394:ASP:OD1	2.10	0.83
1:G:1259:TRP:O	1:G:1263:ASN:ND2	2.11	0.83

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:60:GLY:HA2	2:H:97:TRP:HH2	1.44	0.83
2:H:94:ARG:NH1	2:H:148:GLU:OE2	2.10	0.83
1:C:1259:TRP:O	1:C:1263:ASN:ND2	2.11	0.83
1:G:916:TRP:HZ2	1:G:934:PHE:HB3	1.40	0.83
1:E:1259:TRP:O	1:E:1263:ASN:ND2	2.11	0.83
2:B:60:GLY:HA2	2:B:97:TRP:HH2	1.44	0.83
1:E:1941:THR:HG21	2:F:58:THR:HA	1.61	0.83
1:G:1572:GLN:HA	1:G:1578:LEU:HD21	1.61	0.83
1:C:223:ARG:NE	1:C:1394:ASP:OD1	2.10	0.83
1:C:1572:GLN:HA	1:C:1578:LEU:HD21	1.61	0.83
1:G:1005:LEU:HD21	1:G:1013:VAL:HG11	1.61	0.83
1:A:678:VAL:HG21	1:A:698:ARG:HH11	1.43	0.82
1:E:694:LEU:HB2	1:E:697:MET:HE2	1.62	0.82
1:A:694:LEU:HB2	1:A:697:MET:HE2	1.62	0.82
1:C:1005:LEU:HD21	1:C:1013:VAL:HG11	1.61	0.82
1:G:1756:PHE:O	1:G:1766:GLU:CA	2.28	0.82
1:A:927:ILE:O	1:A:931:ALA:HB2	1.79	0.82
1:E:927:ILE:O	1:E:931:ALA:HB2	1.79	0.82
1:E:1756:PHE:O	1:E:1766:GLU:CA	2.28	0.82
1:G:1824:TYR:HE1	2:H:27:ALA:HA	1.45	0.82
1:C:231:LEU:HB2	1:C:1262:LYS:HZ2	1.45	0.81
1:G:1526:ARG:HH12	1:G:1559:HIS:CD2	1.99	0.81
1:C:1756:PHE:O	1:C:1766:GLU:CA	2.28	0.81
1:A:1526:ARG:HH12	1:A:1559:HIS:CD2	1.99	0.81
1:C:344:LYS:HG2	1:C:394:PHE:HB2	1.63	0.81
1:C:927:ILE:O	1:C:931:ALA:HB2	1.79	0.81
1:C:1526:ARG:HH12	1:C:1559:HIS:CD2	1.99	0.81
1:E:1005:LEU:HD21	1:E:1013:VAL:HG11	1.61	0.81
1:E:1572:GLN:HA	1:E:1578:LEU:HD21	1.61	0.81
1:G:57:GLU:OE2	1:G:1010:ARG:NE	2.14	0.81
1:G:344:LYS:HG2	1:G:394:PHE:HB2	1.63	0.81
1:A:1572:GLN:HA	1:A:1578:LEU:HD21	1.61	0.81
1:C:694:LEU:HB2	1:C:697:MET:HE2	1.62	0.81
1:C:683:PRO:HB2	2:F:143:LEU:HD21	1.60	0.81
1:E:57:GLU:OE2	1:E:1010:ARG:NE	2.13	0.81
1:C:344:LYS:HB2	1:C:392:MET:HB2	1.63	0.81
1:E:1526:ARG:HH12	1:E:1559:HIS:CD2	1.99	0.81
1:A:1005:LEU:HD21	1:A:1013:VAL:HG11	1.61	0.81
1:G:344:LYS:HB2	1:G:392:MET:HB2	1.63	0.81
1:C:683:PRO:HG2	2:F:139:TYR:CD2	2.16	0.80
1:G:927:ILE:O	1:G:931:ALA:HB2	1.79	0.80

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:57:GLU:OE2	1:C:1010:ARG:NE	2.14	0.80
1:A:1756:PHE:O	1:A:1766:GLU:CA	2.28	0.80
1:E:344:LYS:HB2	1:E:392:MET:HB2	1.63	0.80
1:G:694:LEU:HB2	1:G:697:MET:HE2	1.62	0.80
1:A:1437:LEU:O	1:A:1440:GLN:NE2	2.15	0.80
1:A:1999:TYR:OH	2:B:66:ARG:NH1	2.14	0.80
2:F:60:GLY:HA2	2:F:97:TRP:HH2	1.44	0.80
2:D:60:GLY:HA2	2:D:97:TRP:HH2	1.44	0.80
1:A:344:LYS:HB2	1:A:392:MET:HB2	1.63	0.79
1:E:1454:GLU:OE1	1:E:1454:GLU:N	2.14	0.79
1:A:344:LYS:HG2	1:A:394:PHE:HB2	1.62	0.79
1:E:344:LYS:HG2	1:E:394:PHE:HB2	1.63	0.79
1:E:1437:LEU:O	1:E:1440:GLN:NE2	2.15	0.79
1:G:1437:LEU:O	1:G:1440:GLN:NE2	2.15	0.79
1:A:57:GLU:OE2	1:A:1010:ARG:NE	2.14	0.79
1:A:231:LEU:HB2	1:A:1262:LYS:HZ2	1.47	0.79
1:E:231:LEU:HB2	1:E:1262:LYS:HZ2	1.46	0.79
1:A:1446:LYS:HZ2	1:A:1447:PHE:HD2	1.28	0.79
1:C:1437:LEU:O	1:C:1440:GLN:NE2	2.15	0.79
1:G:231:LEU:HB2	1:G:1262:LYS:HZ2	1.45	0.79
1:E:1446:LYS:HZ2	1:E:1447:PHE:HD2	1.29	0.79
1:G:788:ILE:HG13	1:G:789:ARG:HG2	1.65	0.79
1:G:1454:GLU:N	1:G:1454:GLU:OE1	2.14	0.79
1:C:1049:CYS:HA	1:C:1054:TYR:CE2	2.18	0.79
1:G:1700:TYR:HA	1:G:1703:VAL:HG12	1.65	0.79
1:C:784:VAL:HG21	1:C:840:PHE:HE1	1.48	0.78
1:A:788:ILE:HG13	1:A:789:ARG:HG2	1.65	0.78
1:E:784:VAL:HG21	1:E:840:PHE:HE1	1.48	0.78
1:E:1049:CYS:HA	1:E:1054:TYR:CE2	2.18	0.78
1:G:1501:ARG:O	1:G:1504:MET:HG3	1.83	0.78
1:A:1501:ARG:O	1:A:1504:MET:HG3	1.83	0.78
1:A:1049:CYS:HA	1:A:1054:TYR:CE2	2.18	0.78
1:C:554:TYR:HB2	1:C:710:GLU:HB3	1.66	0.78
1:E:1501:ARG:O	1:E:1504:MET:HG3	1.83	0.78
1:G:1049:CYS:HA	1:G:1054:TYR:CE2	2.18	0.78
1:A:1700:TYR:HA	1:A:1703:VAL:HG12	1.65	0.78
1:A:956:ARG:HA	1:A:959:ARG:HG2	1.65	0.78
1:G:784:VAL:HG21	1:G:840:PHE:HE1	1.48	0.78
1:G:554:TYR:HB2	1:G:710:GLU:HB3	1.66	0.78
1:G:956:ARG:HA	1:G:959:ARG:HG2	1.65	0.78
1:C:1501:ARG:O	1:C:1504:MET:HG3	1.83	0.78

*Continued on next page...*



*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1700:TYR:HA	1:C:1703:VAL:HG12	1.65	0.78
1:C:79:PRO:HG2	1:C:82:ASP:HB3	1.66	0.78
1:E:79:PRO:HG2	1:E:82:ASP:HB3	1.66	0.78
1:A:773:VAL:HG22	1:A:815:VAL:HG23	1.66	0.77
1:C:281:LEU:O	1:C:295:ASN:HA	1.85	0.77
1:E:773:VAL:HG22	1:E:815:VAL:HG23	1.66	0.77
1:A:79:PRO:HG2	1:A:82:ASP:HB3	1.66	0.77
1:C:956:ARG:HA	1:C:959:ARG:HG2	1.65	0.77
1:E:554:TYR:HB2	1:E:710:GLU:HB3	1.66	0.77
1:C:773:VAL:HG22	1:C:815:VAL:HG23	1.66	0.77
1:G:79:PRO:HG2	1:G:82:ASP:HB3	1.66	0.77
1:A:281:LEU:O	1:A:295:ASN:HA	1.85	0.77
1:E:788:ILE:HG13	1:E:789:ARG:HG2	1.65	0.77
1:A:541:TYR:HB3	1:A:773:VAL:HG11	1.67	0.77
1:G:1446:LYS:HZ2	1:G:1447:PHE:HD2	1.29	0.77
1:C:788:ILE:HG13	1:C:789:ARG:HG2	1.65	0.77
1:C:541:TYR:HB3	1:C:773:VAL:HG11	1.67	0.77
2:B:84:LEU:HD13	2:B:120:ARG:HE	1.50	0.77
1:G:281:LEU:O	1:G:295:ASN:HA	1.85	0.77
1:C:1521:SER:HG	1:C:1524:HIS:HD1	1.27	0.77
1:E:149:LEU:HB2	1:E:1379:LEU:HD21	1.67	0.77
1:E:541:TYR:HB3	1:E:773:VAL:HG11	1.67	0.77
1:G:1176:LEU:HD13	1:G:1287:LEU:HD23	1.67	0.77
1:C:718:HIS:NE2	1:C:725:ASP:OD2	2.18	0.76
1:A:1176:LEU:HD13	1:A:1287:LEU:HD23	1.67	0.76
1:A:1454:GLU:OE1	1:A:1454:GLU:N	2.14	0.76
1:C:1446:LYS:HZ2	1:C:1447:PHE:HD2	1.28	0.76
1:E:1700:TYR:HA	1:E:1703:VAL:HG12	1.66	0.76
1:A:554:TYR:HB2	1:A:710:GLU:HB3	1.66	0.76
1:G:773:VAL:HG22	1:G:815:VAL:HG23	1.66	0.76
1:A:784:VAL:HG21	1:A:840:PHE:HE1	1.48	0.76
2:F:84:LEU:HD13	2:F:120:ARG:HE	1.50	0.76
1:C:149:LEU:HB2	1:C:1379:LEU:HD21	1.67	0.76
1:G:541:TYR:HB3	1:G:773:VAL:HG11	1.67	0.76
1:G:718:HIS:NE2	1:G:725:ASP:OD2	2.18	0.76
1:E:956:ARG:HA	1:E:959:ARG:HG2	1.65	0.76
2:D:84:LEU:HD13	2:D:120:ARG:HE	1.50	0.76
1:G:1521:SER:HG	1:G:1524:HIS:HD1	1.27	0.76
1:E:718:HIS:NE2	1:E:725:ASP:OD2	2.18	0.76
1:E:1176:LEU:HD13	1:E:1287:LEU:HD23	1.67	0.76
1:C:1761:PHE:HB3	1:C:1764:LEU:HB3	1.68	0.76

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1945:GLY:HA2	2:H:37:PHE:HE1	1.51	0.76
1:A:1846:GLY:N	1:A:1882:PHE:O	2.19	0.75
1:A:1882:PHE:HE1	1:A:1889:ILE:HD12	1.51	0.75
1:C:1454:GLU:OE1	1:C:1454:GLU:N	2.14	0.75
1:G:1846:GLY:N	1:G:1882:PHE:O	2.19	0.75
1:A:1761:PHE:HB3	1:A:1764:LEU:HB3	1.68	0.75
1:C:1846:GLY:N	1:C:1882:PHE:O	2.19	0.75
1:E:570:LEU:HB2	1:E:613:PRO:HG3	1.69	0.75
1:E:1846:GLY:N	1:E:1882:PHE:O	2.19	0.75
1:G:570:LEU:HB2	1:G:613:PRO:HG3	1.69	0.75
2:H:84:LEU:HD13	2:H:120:ARG:HE	1.50	0.75
1:A:149:LEU:HB2	1:A:1379:LEU:HD21	1.67	0.75
1:A:1431:LEU:O	1:A:1435:HIS:ND1	2.19	0.75
1:C:1431:LEU:O	1:C:1435:HIS:ND1	2.19	0.75
1:C:1618:GLN:NE2	1:C:1883:PRO:O	2.19	0.75
1:G:1761:PHE:HB3	1:G:1764:LEU:HB3	1.68	0.75
1:E:281:LEU:O	1:E:295:ASN:HA	1.85	0.75
1:G:260:ARG:HA	1:G:327:PHE:O	1.87	0.75
1:E:1761:PHE:HB3	1:E:1764:LEU:HB3	1.68	0.75
1:G:149:LEU:HB2	1:G:1379:LEU:HD21	1.67	0.75
1:C:1909:MET:HA	1:C:1912:LYS:HG2	1.69	0.74
1:E:1431:LEU:O	1:E:1435:HIS:ND1	2.19	0.74
1:G:1431:LEU:O	1:G:1435:HIS:ND1	2.19	0.74
1:E:125:ARG:HH12	1:E:1003:ASP:HA	1.52	0.74
2:F:161:THR:HG22	2:F:163:ARG:HD3	1.69	0.74
1:G:125:ARG:HH12	1:G:1003:ASP:HA	1.52	0.74
1:C:260:ARG:HA	1:C:327:PHE:O	1.87	0.74
2:D:161:THR:HG22	2:D:163:ARG:HD3	1.69	0.74
1:G:1882:PHE:HE1	1:G:1889:ILE:HD12	1.51	0.74
1:E:260:ARG:HA	1:E:327:PHE:O	1.87	0.74
1:G:1021:TYR:HH	1:G:1045:THR:HG1	1.13	0.74
1:A:1618:GLN:NE2	1:A:1883:PRO:O	2.19	0.74
1:A:1909:MET:HA	1:A:1912:LYS:HG2	1.69	0.74
2:F:8:VAL:HG22	2:F:79:LEU:HB2	1.70	0.74
1:A:125:ARG:HH12	1:A:1003:ASP:HA	1.52	0.74
1:A:718:HIS:NE2	1:A:725:ASP:OD2	2.18	0.74
1:E:1882:PHE:HE1	1:E:1889:ILE:HD12	1.51	0.74
1:E:152:GLN:NE2	1:E:1379:LEU:O	2.21	0.74
1:E:224:ARG:HG3	1:E:227:ARG:HH12	1.53	0.74
1:E:1936:GLY:N	2:F:39:ASN:OD1	2.21	0.74
1:G:814:LEU:HA	1:G:817:ARG:HD2	1.70	0.74

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1587:ARG:HH21	1:G:1590:GLN:HE22	1.36	0.74
1:A:1392:VAL:O	1:A:1395:THR:OG1	2.06	0.74
1:C:223:ARG:HG2	1:C:227:ARG:HH21	1.52	0.74
1:C:957:LYS:HG3	1:C:958:LEU:HD12	1.70	0.74
1:C:1176:LEU:HD13	1:C:1287:LEU:HD23	1.67	0.74
1:E:814:LEU:HA	1:E:817:ARG:HD2	1.70	0.74
1:C:570:LEU:HB2	1:C:613:PRO:HG3	1.69	0.74
1:G:224:ARG:HG3	1:G:227:ARG:HH12	1.53	0.74
2:H:161:THR:HG22	2:H:163:ARG:HD3	1.69	0.74
1:C:448:GLY:HA3	1:E:481:ARG:HG2	1.69	0.74
1:C:814:LEU:HA	1:C:817:ARG:HD2	1.70	0.74
1:C:1882:PHE:HE1	1:C:1889:ILE:HD12	1.51	0.74
1:G:1909:MET:HA	1:G:1912:LYS:HG2	1.69	0.74
1:A:224:ARG:HG3	1:A:227:ARG:HH12	1.53	0.73
1:E:223:ARG:HG2	1:E:227:ARG:HH21	1.52	0.73
1:A:93:ARG:HH12	1:A:260:ARG:HH22	1.37	0.73
1:A:223:ARG:HG2	1:A:227:ARG:HH21	1.52	0.73
1:A:260:ARG:HA	1:A:327:PHE:O	1.87	0.73
1:A:957:LYS:HG3	1:A:958:LEU:HD12	1.70	0.73
1:A:563:ARG:HG3	1:A:698:ARG:HH12	1.54	0.73
1:A:1505:GLN:HA	1:A:1508:MET:HG2	1.71	0.73
1:A:1932:MET:HG3	2:B:39:ASN:HB3	1.70	0.73
1:C:224:ARG:HG3	1:C:227:ARG:HH12	1.53	0.73
1:C:1046:ARG:HD2	1:C:1047:ILE:HG13	1.71	0.73
1:E:1727:HIS:CE1	1:G:1731:GLN:HG3	2.23	0.73
1:G:965:LEU:HB3	1:G:1012:PHE:HE2	1.54	0.73
1:A:152:GLN:NE2	1:A:1379:LEU:O	2.21	0.73
1:C:1954:LEU:HD22	1:C:1971:ARG:HD2	1.71	0.73
1:E:809:ALA:HA	1:E:934:PHE:HZ	1.54	0.73
1:G:93:ARG:HH12	1:G:260:ARG:HH22	1.37	0.73
1:G:1392:VAL:O	1:G:1395:THR:OG1	2.06	0.73
1:A:965:LEU:HB3	1:A:1012:PHE:HE2	1.54	0.73
1:A:1932:MET:HE3	2:B:39:ASN:CG	2.14	0.73
2:B:161:THR:HG22	2:B:163:ARG:HD3	1.69	0.73
1:C:152:GLN:NE2	1:C:1379:LEU:O	2.21	0.73
1:C:809:ALA:HA	1:C:934:PHE:HZ	1.54	0.73
1:C:1392:VAL:O	1:C:1395:THR:OG1	2.06	0.73
1:G:223:ARG:HG2	1:G:227:ARG:HH21	1.53	0.73
2:H:8:VAL:HG22	2:H:79:LEU:HB2	1.70	0.73
1:E:957:LYS:HG3	1:E:958:LEU:HD12	1.70	0.73
1:G:152:GLN:NE2	1:G:1379:LEU:O	2.21	0.73

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:814:LEU:HA	1:A:817:ARG:HD2	1.70	0.73
1:G:1954:LEU:HD22	1:G:1971:ARG:HD2	1.71	0.73
1:A:1046:ARG:HD2	1:A:1047:ILE:HG13	1.71	0.73
1:C:951:ARG:NH2	1:C:958:LEU:O	2.22	0.73
1:C:1587:ARG:HH21	1:C:1590:GLN:HE22	1.36	0.73
1:C:244:VAL:HA	1:C:1046:ARG:HH12	1.53	0.72
1:C:1831:THR:HA	1:C:1834:LEU:HD12	1.71	0.72
2:D:8:VAL:HG22	2:D:79:LEU:HB2	1.70	0.72
1:E:93:ARG:HH12	1:E:260:ARG:HH22	1.37	0.72
1:E:965:LEU:HB3	1:E:1012:PHE:HE2	1.54	0.72
1:E:1392:VAL:O	1:E:1395:THR:OG1	2.06	0.72
1:E:1540:MET:HA	1:E:1543:ARG:HG2	1.71	0.72
2:F:120:ARG:NH2	2:F:156:GLU:OE1	2.22	0.72
1:A:570:LEU:HB2	1:A:613:PRO:HG3	1.69	0.72
1:A:1954:LEU:HD22	1:A:1971:ARG:HD2	1.71	0.72
1:C:93:ARG:HH12	1:C:260:ARG:HH22	1.37	0.72
1:C:965:LEU:HB3	1:C:1012:PHE:HE2	1.54	0.72
1:E:951:ARG:NH2	1:E:958:LEU:O	2.22	0.72
1:E:1909:MET:HA	1:E:1912:LYS:HG2	1.69	0.72
1:G:244:VAL:HA	1:G:1046:ARG:HH12	1.53	0.72
1:G:1505:GLN:HA	1:G:1508:MET:HG2	1.71	0.72
1:A:951:ARG:NH2	1:A:958:LEU:O	2.22	0.72
1:C:63:ARG:HH12	1:C:1063:PRO:HD2	1.54	0.72
1:C:563:ARG:HG3	1:C:698:ARG:HH12	1.54	0.72
1:G:632:HIS:ND1	1:G:659:ILE:O	2.23	0.72
1:G:1540:MET:HA	1:G:1543:ARG:HG2	1.71	0.72
1:A:1540:MET:HA	1:A:1543:ARG:HG2	1.71	0.72
1:C:1540:MET:HA	1:C:1543:ARG:HG2	1.71	0.72
1:E:563:ARG:HG3	1:E:698:ARG:HH12	1.54	0.72
2:B:120:ARG:NH2	2:B:156:GLU:OE1	2.22	0.72
1:C:1505:GLN:HA	1:C:1508:MET:HG2	1.71	0.72
1:C:90:ARG:NH2	1:C:115:MET:O	2.23	0.72
1:E:1831:THR:HA	1:E:1834:LEU:HD12	1.71	0.72
1:A:632:HIS:ND1	1:A:659:ILE:O	2.23	0.72
2:H:120:ARG:NH2	2:H:156:GLU:OE1	2.22	0.72
2:B:8:VAL:HG22	2:B:79:LEU:HB2	1.70	0.72
1:E:63:ARG:HH12	1:E:1063:PRO:HD2	1.54	0.72
1:G:809:ALA:HA	1:G:934:PHE:HZ	1.54	0.72
1:A:809:ALA:HA	1:A:934:PHE:HZ	1.54	0.72
1:C:125:ARG:HH12	1:C:1003:ASP:HA	1.52	0.72
2:D:120:ARG:NH2	2:D:156:GLU:OE1	2.22	0.72

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1954:LEU:HD22	1:E:1971:ARG:HD2	1.71	0.72
1:G:1618:GLN:NE2	1:G:1883:PRO:O	2.19	0.72
1:A:1587:ARG:HH21	1:A:1590:GLN:HE22	1.36	0.72
1:G:1831:THR:HA	1:G:1834:LEU:HD12	1.71	0.72
1:A:1831:THR:HA	1:A:1834:LEU:HD12	1.71	0.71
1:E:244:VAL:HA	1:E:1046:ARG:HH12	1.53	0.71
1:E:1587:ARG:HH21	1:E:1590:GLN:HE22	1.36	0.71
1:G:957:LYS:HG3	1:G:958:LEU:HD12	1.70	0.71
1:A:90:ARG:NH2	1:A:115:MET:O	2.23	0.71
1:E:1855:PRO:HD2	2:F:31:GLU:HG3	1.72	0.71
1:E:632:HIS:ND1	1:E:659:ILE:O	2.23	0.71
1:E:1618:GLN:NE2	1:E:1883:PRO:O	2.19	0.71
1:G:63:ARG:HH12	1:G:1063:PRO:HD2	1.54	0.71
1:G:951:ARG:NH2	1:G:958:LEU:O	2.22	0.71
2:H:24:THR:HG21	2:H:40:TYR:HB3	1.72	0.71
1:A:1750:THR:OG1	1:A:1777:THR:OG1	2.04	0.71
1:C:632:HIS:ND1	1:C:659:ILE:O	2.23	0.71
2:B:24:THR:HG21	2:B:40:TYR:HB3	1.72	0.71
1:C:108:GLN:HG2	1:C:732:HIS:CE1	2.26	0.71
1:E:90:ARG:NH2	1:E:115:MET:O	2.23	0.71
1:A:244:VAL:HA	1:A:1046:ARG:HH12	1.53	0.71
1:A:951:ARG:HB3	1:A:959:ARG:HH21	1.56	0.71
1:E:1046:ARG:HD2	1:E:1047:ILE:HG13	1.71	0.71
1:A:63:ARG:HH12	1:A:1063:PRO:HD2	1.54	0.71
1:A:1837:ARG:NH1	1:A:1845:TYR:O	2.24	0.71
1:C:633:LEU:H	1:C:659:ILE:HG22	1.56	0.71
1:C:1481:ALA:O	1:C:1484:SER:OG	2.09	0.71
1:G:90:ARG:NH2	1:G:115:MET:O	2.23	0.71
1:E:1386:THR:O	1:E:1389:SER:OG	2.09	0.71
1:G:635:PHE:HD1	1:G:657:THR:HG23	1.56	0.71
1:A:108:GLN:HG2	1:A:732:HIS:CE1	2.26	0.70
1:A:1386:THR:O	1:A:1389:SER:OG	2.09	0.70
1:E:951:ARG:HB3	1:E:959:ARG:HH21	1.56	0.70
1:E:1613:HIS:HB3	1:E:1693:TYR:HB3	1.73	0.70
1:G:150:PRO:HG3	1:G:226:HIS:HE1	1.56	0.70
1:G:1046:ARG:HD2	1:G:1047:ILE:HG13	1.71	0.70
1:A:635:PHE:HD1	1:A:657:THR:HG23	1.56	0.70
1:G:548:ARG:O	1:G:716:SER:N	2.24	0.70
1:G:1803:LYS:NZ	2:H:160:LEU:HG	2.06	0.70
1:E:916:TRP:CZ2	1:E:934:PHE:HB3	2.26	0.70
1:A:150:PRO:HG3	1:A:226:HIS:HE1	1.56	0.70

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:90:ARG:NE	1:C:118:GLU:O	2.25	0.70
1:C:150:PRO:HG3	1:C:226:HIS:HE1	1.56	0.70
1:G:951:ARG:HB3	1:G:959:ARG:HH21	1.56	0.70
1:C:1597:LEU:HD21	1:C:1626:LEU:HD22	1.74	0.70
1:E:1865:GLU:HG3	1:E:1867:PRO:HD2	1.74	0.70
2:F:24:THR:HG21	2:F:40:TYR:HB3	1.72	0.70
1:G:108:GLN:HG2	1:G:732:HIS:CE1	2.26	0.70
1:G:784:VAL:HG21	1:G:840:PHE:CE1	2.26	0.70
1:G:1386:THR:O	1:G:1389:SER:OG	2.09	0.70
1:G:1481:ALA:O	1:G:1484:SER:OG	2.09	0.70
1:A:90:ARG:NE	1:A:118:GLU:O	2.25	0.70
1:A:1597:LEU:HD21	1:A:1626:LEU:HD22	1.73	0.70
1:C:951:ARG:HB3	1:C:959:ARG:HH21	1.56	0.70
1:E:223:ARG:CZ	1:E:224:ARG:HH12	2.05	0.70
1:E:1505:GLN:HA	1:E:1508:MET:HG2	1.71	0.70
1:E:90:ARG:NE	1:E:118:GLU:O	2.25	0.70
1:E:145:ARG:NH2	1:E:230:ALA:HB3	2.07	0.70
1:C:548:ARG:O	1:C:716:SER:N	2.25	0.70
1:C:912:LEU:O	1:C:915:GLN:HG2	1.92	0.70
2:D:125:THR:HA	2:D:128:LYS:HE3	1.74	0.70
1:G:633:LEU:H	1:G:659:ILE:HG22	1.56	0.70
1:C:223:ARG:CZ	1:C:224:ARG:HH12	2.05	0.70
1:E:108:GLN:HG2	1:E:732:HIS:CE1	2.26	0.70
1:E:912:LEU:O	1:E:915:GLN:HG2	1.92	0.70
1:G:563:ARG:HG3	1:G:698:ARG:HH12	1.54	0.70
1:G:1837:ARG:NH1	1:G:1845:TYR:O	2.24	0.70
1:A:633:LEU:H	1:A:659:ILE:HG22	1.56	0.70
1:A:1613:HIS:HB3	1:A:1693:TYR:HB3	1.73	0.70
1:C:1613:HIS:HB3	1:C:1693:TYR:HB3	1.73	0.70
2:D:24:THR:HG21	2:D:40:TYR:HB3	1.72	0.70
1:G:145:ARG:NH2	1:G:230:ALA:HB3	2.07	0.70
1:A:1038:LEU:HA	1:A:1041:ARG:NH2	2.07	0.69
1:A:1865:GLU:HG3	1:A:1867:PRO:HD2	1.74	0.69
1:C:1038:LEU:HA	1:C:1041:ARG:NH2	2.07	0.69
1:E:633:LEU:H	1:E:659:ILE:HG22	1.56	0.69
1:E:1038:LEU:HA	1:E:1041:ARG:NH2	2.07	0.69
1:C:1600:LEU:HD21	1:C:1620:MET:HA	1.74	0.69
1:E:784:VAL:HG21	1:E:840:PHE:CE1	2.26	0.69
1:E:1600:LEU:HD21	1:E:1620:MET:HA	1.74	0.69
1:A:931:ALA:HA	1:A:934:PHE:HD2	1.57	0.69
1:G:1600:LEU:HD21	1:G:1620:MET:HA	1.74	0.69

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:145:ARG:NH2	1:C:230:ALA:HB3	2.07	0.69
1:C:784:VAL:HG21	1:C:840:PHE:CE1	2.27	0.69
1:C:931:ALA:HA	1:C:934:PHE:HD2	1.58	0.69
1:G:1613:HIS:HB3	1:G:1693:TYR:HB3	1.73	0.69
1:A:145:ARG:NH2	1:A:230:ALA:HB3	2.07	0.69
1:C:635:PHE:HD1	1:C:657:THR:HG23	1.56	0.69
1:C:1837:ARG:NH1	1:C:1845:TYR:O	2.24	0.69
1:A:784:VAL:HG21	1:A:840:PHE:CE1	2.27	0.69
1:A:1428:GLN:HB2	1:A:1433:LEU:HD21	1.75	0.69
1:A:1481:ALA:O	1:A:1484:SER:OG	2.09	0.69
1:E:571:ALA:HB3	1:E:638:TYR:HB2	1.75	0.69
1:E:635:PHE:HD1	1:E:657:THR:HG23	1.56	0.69
2:H:125:THR:HA	2:H:128:LYS:HE3	1.74	0.69
1:E:150:PRO:HG3	1:E:226:HIS:HE1	1.56	0.69
1:E:548:ARG:O	1:E:716:SER:N	2.25	0.69
1:E:1481:ALA:O	1:E:1484:SER:OG	2.09	0.69
2:F:16:LYS:HZ3	2:F:58:THR:H	1.41	0.69
1:G:90:ARG:NE	1:G:118:GLU:O	2.25	0.69
1:G:1865:GLU:HG3	1:G:1867:PRO:HD2	1.74	0.69
1:C:1865:GLU:HG3	1:C:1867:PRO:HD2	1.74	0.69
1:C:1436:GLY:O	1:C:1439:THR:OG1	2.10	0.68
1:E:271:GLU:OE1	1:E:495:GLN:NE2	2.26	0.68
1:G:912:LEU:O	1:G:915:GLN:HG2	1.92	0.68
1:G:1154:GLU:O	1:G:1157:VAL:HG12	1.93	0.68
1:C:1386:THR:O	1:C:1389:SER:OG	2.09	0.68
1:G:85:LEU:HB3	1:G:947:LEU:HD11	1.75	0.68
1:G:1288:LEU:HD22	1:G:1392:VAL:HG13	1.75	0.68
1:G:1597:LEU:HD21	1:G:1626:LEU:HD22	1.74	0.68
1:A:56:PHE:HB2	1:A:1014:PHE:HE2	1.58	0.68
1:A:1998:GLU:O	1:A:2001:ARG:NH1	2.27	0.68
2:B:125:THR:HA	2:B:128:LYS:HE3	1.74	0.68
1:C:271:GLU:OE1	1:C:495:GLN:NE2	2.26	0.68
1:E:105:LEU:O	1:E:110:ARG:NH1	2.26	0.68
1:E:1832:TYR:HA	1:E:1835:LYS:HE2	1.76	0.68
1:G:56:PHE:HB2	1:G:1014:PHE:HE2	1.58	0.68
1:G:223:ARG:CZ	1:G:224:ARG:HH12	2.05	0.68
1:G:1998:GLU:O	1:G:2001:ARG:NH1	2.27	0.68
1:A:105:LEU:O	1:A:110:ARG:NH1	2.26	0.68
1:A:223:ARG:CZ	1:A:224:ARG:HH12	2.05	0.68
1:C:105:LEU:O	1:C:110:ARG:NH1	2.26	0.68
1:C:1288:LEU:HD22	1:C:1392:VAL:HG13	1.76	0.68

*Continued on next page...*



*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1597:LEU:HD21	1:E:1626:LEU:HD22	1.74	0.68
1:G:271:GLU:OE1	1:G:495:GLN:NE2	2.26	0.68
1:G:393:PRO:HB2	1:G:462:GLN:HG2	1.76	0.68
1:A:271:GLU:OE1	1:A:495:GLN:NE2	2.26	0.68
1:A:912:LEU:O	1:A:915:GLN:HG2	1.92	0.68
1:A:1620:MET:SD	1:A:1693:TYR:HE1	2.17	0.68
1:A:1718:ARG:HH11	1:C:1839:THR:HG22	1.56	0.68
1:C:571:ALA:HB3	1:C:638:TYR:HB2	1.75	0.68
1:G:931:ALA:HA	1:G:934:PHE:HD2	1.58	0.68
1:A:548:ARG:O	1:A:716:SER:N	2.24	0.68
1:A:1038:LEU:CD2	1:A:1041:ARG:HH22	2.06	0.68
1:C:1038:LEU:CD2	1:C:1041:ARG:HH22	2.06	0.68
1:C:1154:GLU:O	1:C:1157:VAL:HG12	1.93	0.68
1:E:85:LEU:HB3	1:E:947:LEU:HD11	1.75	0.68
1:G:1038:LEU:HA	1:G:1041:ARG:NH2	2.08	0.68
1:E:931:ALA:HA	1:E:934:PHE:HD2	1.57	0.68
1:E:1154:GLU:O	1:E:1157:VAL:HG12	1.93	0.68
1:G:916:TRP:CZ2	1:G:934:PHE:HB3	2.26	0.68
1:A:85:LEU:HB3	1:A:947:LEU:HD11	1.75	0.68
1:A:393:PRO:HB2	1:A:462:GLN:HG2	1.76	0.68
1:A:571:ALA:HB3	1:A:638:TYR:HB2	1.75	0.68
1:A:580:GLU:OE1	1:A:686:SER:N	2.25	0.68
1:A:1163:GLU:HA	1:A:1166:LEU:HG	1.76	0.68
1:A:1600:LEU:HD21	1:A:1620:MET:HA	1.74	0.68
2:B:5:LYS:HZ2	2:B:74:GLN:HB3	1.59	0.68
1:C:1428:GLN:HB2	1:C:1433:LEU:HD21	1.75	0.68
1:E:1146:HIS:NE2	1:E:1165:TYR:OH	2.27	0.68
2:F:125:THR:HA	2:F:128:LYS:HE3	1.74	0.68
1:A:403:ASN:ND2	1:G:409:GLY:O	2.26	0.68
1:A:1154:GLU:O	1:A:1157:VAL:HG12	1.93	0.68
1:A:1259:TRP:CD1	1:A:1262:LYS:HD3	2.29	0.68
1:A:1832:TYR:HA	1:A:1835:LYS:HE2	1.76	0.68
1:E:544:HIS:ND1	1:E:774:ALA:O	2.27	0.68
1:E:1038:LEU:CD2	1:E:1041:ARG:HH22	2.06	0.68
1:E:1038:LEU:HD23	1:E:1041:ARG:HH22	1.59	0.68
1:G:105:LEU:O	1:G:110:ARG:NH1	2.26	0.68
1:G:776:SER:HA	1:G:779:VAL:HB	1.76	0.68
1:C:85:LEU:HB3	1:C:947:LEU:HD11	1.75	0.67
1:C:683:PRO:HG2	2:F:139:TYR:CE2	2.29	0.67
1:G:1038:LEU:CD2	1:G:1041:ARG:HH22	2.06	0.67
1:G:1503:LYS:HD2	1:G:1554:LEU:HD11	1.76	0.67

*Continued on next page...*



*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1620:MET:SD	1:G:1693:TYR:HE1	2.17	0.67
1:G:1832:TYR:HA	1:G:1835:LYS:HE2	1.76	0.67
1:E:56:PHE:HB2	1:E:1014:PHE:HE2	1.58	0.67
1:G:1058:ASN:O	1:G:1107:HIS:ND1	2.28	0.67
1:G:1436:GLY:O	1:G:1439:THR:OG1	2.10	0.67
1:C:776:SER:HA	1:C:779:VAL:HB	1.76	0.67
1:E:1428:GLN:HB2	1:E:1433:LEU:HD21	1.75	0.67
1:G:1143:LEU:HA	1:G:1146:HIS:HD2	1.59	0.67
1:G:1928:LYS:O	1:G:1931:GLN:NE2	2.26	0.67
1:A:1723:LEU:CB	1:C:1738:MET:HE1	2.25	0.67
1:C:1038:LEU:HD23	1:C:1041:ARG:HH22	1.59	0.67
1:E:951:ARG:HB3	1:E:959:ARG:NH2	2.10	0.67
1:G:571:ALA:HB3	1:G:638:TYR:HB2	1.75	0.67
1:A:1482:SER:HA	1:A:1485:LEU:HD12	1.77	0.67
1:C:544:HIS:ND1	1:C:774:ALA:O	2.27	0.67
1:C:786:LEU:HD23	1:C:804:ALA:HB2	1.77	0.67
1:E:1288:LEU:HD22	1:E:1392:VAL:HG13	1.76	0.67
1:E:1503:LYS:HD2	1:E:1554:LEU:HD11	1.76	0.67
1:G:45:VAL:HB	1:G:1104:ARG:HH12	1.59	0.67
1:A:462:GLN:NE2	1:A:466:ARG:HA	2.10	0.67
1:A:1146:HIS:NE2	1:A:1165:TYR:OH	2.27	0.67
1:C:56:PHE:HB2	1:C:1014:PHE:HE2	1.58	0.67
1:C:1749:GLY:HA3	1:C:1773:GLU:O	1.95	0.67
1:C:1998:GLU:O	1:C:2001:ARG:NH1	2.27	0.67
1:G:580:GLU:OE1	1:G:686:SER:N	2.25	0.67
1:G:629:GLU:O	1:G:632:HIS:NE2	2.28	0.67
1:G:1749:GLY:HA3	1:G:1773:GLU:O	1.95	0.67
1:C:629:GLU:O	1:C:632:HIS:NE2	2.28	0.67
1:C:1620:MET:SD	1:C:1693:TYR:HE1	2.17	0.67
1:A:544:HIS:ND1	1:A:774:ALA:O	2.27	0.67
1:A:629:GLU:O	1:A:632:HIS:NE2	2.28	0.67
1:A:1058:ASN:O	1:A:1107:HIS:ND1	2.28	0.67
1:C:1259:TRP:CD1	1:C:1262:LYS:HD3	2.29	0.67
2:D:16:LYS:HZ3	2:D:58:THR:H	1.42	0.67
1:E:1163:GLU:HA	1:E:1166:LEU:HG	1.76	0.67
1:E:1620:MET:SD	1:E:1693:TYR:HE1	2.17	0.67
1:E:1999:TYR:CD2	2:F:70:LEU:HB3	2.30	0.67
1:G:544:HIS:ND1	1:G:774:ALA:O	2.27	0.67
1:G:1259:TRP:CD1	1:G:1262:LYS:HD3	2.29	0.67
1:C:783:LEU:HB3	1:C:808:MET:HE3	1.77	0.67
1:C:916:TRP:CZ2	1:C:934:PHE:HB3	2.26	0.67

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:951:ARG:HB3	1:G:959:ARG:NH2	2.10	0.67
1:A:45:VAL:HB	1:A:1104:ARG:HH12	1.59	0.67
1:A:776:SER:HA	1:A:779:VAL:HB	1.76	0.67
1:A:1503:LYS:HD2	1:A:1554:LEU:HD11	1.76	0.67
1:C:1832:TYR:HA	1:C:1835:LYS:HE2	1.76	0.67
1:E:244:VAL:HA	1:E:1046:ARG:NH1	2.10	0.67
1:E:1259:TRP:CD1	1:E:1262:LYS:HD3	2.29	0.67
1:E:1998:GLU:O	1:E:2001:ARG:NH1	2.27	0.67
1:G:1163:GLU:HA	1:G:1166:LEU:HG	1.76	0.67
1:A:951:ARG:HB3	1:A:959:ARG:NH2	2.10	0.66
1:C:1058:ASN:O	1:C:1107:HIS:ND1	2.28	0.66
1:C:1143:LEU:HA	1:C:1146:HIS:HD2	1.59	0.66
1:C:1529:LEU:HA	1:C:1532:ILE:HG12	1.77	0.66
1:E:1143:LEU:HA	1:E:1146:HIS:HD2	1.59	0.66
1:A:1288:LEU:HD22	1:A:1392:VAL:HG13	1.76	0.66
1:A:1723:LEU:HB3	1:C:1734:PHE:CZ	2.25	0.66
1:C:462:GLN:NE2	1:C:466:ARG:HA	2.10	0.66
1:C:1146:HIS:NE2	1:C:1165:TYR:OH	2.27	0.66
1:E:783:LEU:HB3	1:E:808:MET:HE3	1.77	0.66
1:E:786:LEU:HD23	1:E:804:ALA:HB2	1.77	0.66
1:G:462:GLN:NE2	1:G:466:ARG:HA	2.10	0.66
1:G:556:HIS:HB2	1:G:708:SER:HB3	1.77	0.66
1:C:556:HIS:HB2	1:C:708:SER:HB3	1.77	0.66
1:E:629:GLU:O	1:E:632:HIS:NE2	2.28	0.66
1:E:776:SER:HA	1:E:779:VAL:HB	1.76	0.66
1:E:1058:ASN:O	1:E:1107:HIS:ND1	2.28	0.66
1:E:1837:ARG:NH1	1:E:1845:TYR:O	2.24	0.66
1:A:556:HIS:HB2	1:A:708:SER:HB3	1.77	0.66
1:C:951:ARG:HB3	1:C:959:ARG:NH2	2.10	0.66
1:E:1999:TYR:CZ	2:F:69:PRO:HB2	2.31	0.66
1:G:1428:GLN:HB2	1:G:1433:LEU:HD21	1.75	0.66
1:G:1528:SER:O	1:G:1531:THR:OG1	2.12	0.66
1:A:231:LEU:HD22	1:A:1259:TRP:HB2	1.78	0.66
1:A:1106:GLN:O	1:A:1107:HIS:ND1	2.29	0.66
1:A:1529:LEU:HA	1:A:1532:ILE:HG12	1.78	0.66
1:C:231:LEU:HD22	1:C:1259:TRP:HB2	1.78	0.66
1:E:393:PRO:HB2	1:E:462:GLN:HG2	1.76	0.66
1:E:567:VAL:HB	1:E:570:LEU:HD21	1.78	0.66
1:G:1529:LEU:HA	1:G:1532:ILE:HG12	1.77	0.66
1:C:634:LEU:HD11	1:C:656:PHE:HB3	1.78	0.66
1:E:348:GLN:HE22	1:E:644:PRO:HD3	1.61	0.66

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1382:GLY:O	1:E:1386:THR:OG1	2.12	0.66
1:E:1928:LYS:NZ	2:F:76:ASP:OD2	2.28	0.66
1:G:783:LEU:HB3	1:G:808:MET:HE3	1.77	0.66
1:G:786:LEU:HD23	1:G:804:ALA:HB2	1.77	0.66
1:A:244:VAL:HA	1:A:1046:ARG:NH1	2.10	0.66
1:A:567:VAL:HB	1:A:570:LEU:HD21	1.78	0.66
1:A:1021:TYR:OH	1:A:1045:THR:OG1	2.00	0.66
1:A:1043:GLU:HG2	1:A:1046:ARG:HH21	1.61	0.66
1:C:244:VAL:HA	1:C:1046:ARG:NH1	2.10	0.66
2:D:5:LYS:HZ2	2:D:74:GLN:HB3	1.61	0.66
1:E:1529:LEU:HA	1:E:1532:ILE:HG12	1.78	0.66
1:G:348:GLN:HE22	1:G:644:PRO:HD3	1.61	0.66
1:G:1038:LEU:HD23	1:G:1041:ARG:HH22	1.59	0.66
1:G:1146:HIS:NE2	1:G:1165:TYR:OH	2.27	0.66
1:A:634:LEU:HD11	1:A:656:PHE:HB3	1.78	0.66
1:A:1727:HIS:CE1	1:C:1735:THR:HG23	2.30	0.66
1:A:1749:GLY:HA3	1:A:1773:GLU:O	1.95	0.66
1:C:1288:LEU:HD13	1:C:1396:LEU:HD21	1.78	0.66
1:C:1503:LYS:HD2	1:C:1554:LEU:HD11	1.76	0.66
1:C:1909:MET:HE1	1:C:1974:PHE:HD1	1.61	0.66
1:E:634:LEU:HD11	1:E:656:PHE:HB3	1.78	0.66
1:E:1106:GLN:O	1:E:1107:HIS:ND1	2.29	0.66
1:G:1011:GLY:HA2	1:G:1014:PHE:CD2	2.31	0.66
1:A:783:LEU:HB3	1:A:808:MET:HE3	1.77	0.66
1:A:1143:LEU:HA	1:A:1146:HIS:HD2	1.59	0.66
1:A:1909:MET:HE1	1:A:1974:PHE:HD1	1.61	0.66
1:C:45:VAL:HB	1:C:1104:ARG:HH12	1.59	0.66
1:C:938:MET:O	1:C:941:SER:OG	2.14	0.66
1:E:462:GLN:NE2	1:E:466:ARG:HA	2.10	0.66
1:G:1909:MET:HE1	1:G:1974:PHE:HD1	1.61	0.66
2:B:16:LYS:HZ3	2:B:58:THR:H	1.44	0.65
1:C:1420:VAL:O	1:C:1423:SER:OG	2.14	0.65
1:E:938:MET:O	1:E:941:SER:OG	2.14	0.65
1:E:1011:GLY:HA2	1:E:1014:PHE:CD2	2.31	0.65
1:E:1749:GLY:HA3	1:E:1773:GLU:O	1.95	0.65
2:H:60:GLY:HA2	2:H:97:TRP:CH2	2.31	0.65
1:A:568:ARG:HB2	1:A:609:HIS:HA	1.78	0.65
1:A:951:ARG:HD3	1:A:959:ARG:HH21	1.61	0.65
1:A:1528:SER:O	1:A:1531:THR:OG1	2.12	0.65
1:C:1482:SER:HA	1:C:1485:LEU:HD12	1.77	0.65
1:E:231:LEU:HD22	1:E:1259:TRP:HB2	1.78	0.65

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:568:ARG:HB2	1:E:609:HIS:HA	1.78	0.65
1:E:1043:GLU:HG2	1:E:1046:ARG:HH21	1.61	0.65
1:E:1482:SER:HA	1:E:1485:LEU:HD12	1.77	0.65
1:E:1798:VAL:O	1:E:1818:ALA:N	2.27	0.65
1:G:244:VAL:HA	1:G:1046:ARG:NH1	2.10	0.65
2:H:16:LYS:NZ	2:H:58:THR:OG1	2.30	0.65
1:E:45:VAL:HB	1:E:1104:ARG:HH12	1.59	0.65
1:E:556:HIS:HB2	1:E:708:SER:HB3	1.77	0.65
1:G:1043:GLU:HG2	1:G:1046:ARG:HH21	1.61	0.65
1:G:1288:LEU:HD13	1:G:1396:LEU:HD21	1.78	0.65
1:G:1482:SER:HA	1:G:1485:LEU:HD12	1.77	0.65
2:B:60:GLY:HA2	2:B:97:TRP:CH2	2.31	0.65
1:C:683:PRO:HG2	2:F:139:TYR:HD2	1.60	0.65
1:C:1646:SER:O	1:C:1709:ASN:ND2	2.30	0.65
1:C:1756:PHE:O	1:C:1766:GLU:N	2.30	0.65
1:A:1420:VAL:O	1:A:1423:SER:OG	2.14	0.65
1:C:1054:TYR:CZ	1:C:1109:LEU:HB3	2.32	0.65
2:D:16:LYS:NZ	2:D:58:THR:OG1	2.30	0.65
1:E:951:ARG:HD3	1:E:959:ARG:HH21	1.61	0.65
1:G:634:LEU:HD11	1:G:656:PHE:HB3	1.78	0.65
1:A:628:THR:HA	1:A:662:LEU:HD13	1.79	0.65
1:C:73:ARG:NH1	1:C:74:ASP:OD1	2.30	0.65
1:C:1163:GLU:HA	1:C:1166:LEU:HG	1.76	0.65
1:E:1756:PHE:O	1:E:1766:GLU:N	2.30	0.65
1:E:1909:MET:HE1	1:E:1974:PHE:HD1	1.61	0.65
2:F:5:LYS:HZ2	2:F:74:GLN:HB3	1.62	0.65
1:A:1521:SER:OG	1:A:1524:HIS:ND1	2.20	0.65
1:C:393:PRO:HB2	1:C:462:GLN:HG2	1.76	0.65
1:G:231:LEU:HD22	1:G:1259:TRP:HB2	1.78	0.65
1:A:936:GLN:HA	1:A:939:VAL:HG22	1.79	0.65
1:A:975:VAL:O	1:A:979:VAL:HG23	1.97	0.65
1:A:1011:GLY:HA2	1:A:1014:PHE:CD2	2.31	0.65
1:A:1646:SER:O	1:A:1709:ASN:ND2	2.30	0.65
1:C:951:ARG:HD3	1:C:959:ARG:HH21	1.62	0.65
1:E:73:ARG:NH1	1:E:74:ASP:OD1	2.30	0.65
1:E:628:THR:HA	1:E:662:LEU:HD13	1.79	0.65
1:E:951:ARG:HD3	1:E:959:ARG:HE	1.62	0.65
1:E:1121:LEU:HD13	1:E:1175:THR:HG21	1.79	0.65
2:F:16:LYS:NZ	2:F:58:THR:OG1	2.30	0.65
1:G:628:THR:HA	1:G:662:LEU:HD13	1.79	0.65
1:A:1008:VAL:HG22	1:A:1009:ASP:H	1.62	0.65

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1038:LEU:HD23	1:A:1041:ARG:HH22	1.59	0.65
2:B:16:LYS:NZ	2:B:58:THR:OG1	2.30	0.65
1:C:1011:GLY:HA2	1:C:1014:PHE:CD2	2.31	0.65
1:G:1054:TYR:CZ	1:G:1109:LEU:HB3	2.32	0.65
1:G:1756:PHE:O	1:G:1766:GLU:N	2.30	0.65
1:C:669:THR:HG21	1:C:713:ALA:H	1.62	0.65
1:C:920:SER:O	1:C:924:ARG:N	2.28	0.65
1:E:1982:GLU:OE2	1:E:2011:ARG:NH1	2.30	0.65
1:A:1021:TYR:HA	1:A:1024:VAL:HG12	1.79	0.64
1:C:229:PRO:O	1:C:1262:LYS:NZ	2.26	0.64
1:C:1982:GLU:OE2	1:C:2011:ARG:NH1	2.30	0.64
1:G:73:ARG:NH1	1:G:74:ASP:OD1	2.30	0.64
1:G:1992:ILE:HD13	1:G:2000:HIS:CG	2.33	0.64
1:A:916:TRP:CZ2	1:A:934:PHE:HB3	2.26	0.64
1:A:1001:LEU:O	1:A:1005:LEU:HG	1.97	0.64
1:A:1117:LEU:HD23	1:A:1135:ALA:HB1	1.80	0.64
1:C:1043:GLU:HG2	1:C:1046:ARG:HH21	1.61	0.64
1:C:1607:HIS:HB2	1:C:1616:ALA:HB2	1.79	0.64
1:E:975:VAL:O	1:E:979:VAL:HG23	1.97	0.64
1:E:1021:TYR:HA	1:E:1024:VAL:HG12	1.79	0.64
1:E:1054:TYR:HA	1:E:1057:LEU:HD12	1.79	0.64
1:E:1436:GLY:O	1:E:1439:THR:OG1	2.10	0.64
1:G:936:GLN:HA	1:G:939:VAL:HG22	1.79	0.64
1:G:1021:TYR:HA	1:G:1024:VAL:HG12	1.80	0.64
1:G:1106:GLN:O	1:G:1107:HIS:ND1	2.29	0.64
1:G:1117:LEU:HD23	1:G:1135:ALA:HB1	1.80	0.64
1:A:403:ASN:HA	1:G:407:SER:HA	1.79	0.64
1:A:786:LEU:HD23	1:A:804:ALA:HB2	1.77	0.64
1:C:936:GLN:HA	1:C:939:VAL:HG22	1.79	0.64
1:C:1106:GLN:O	1:C:1107:HIS:ND1	2.29	0.64
1:E:1008:VAL:HG22	1:E:1009:ASP:H	1.62	0.64
1:G:669:THR:HG21	1:G:713:ALA:H	1.62	0.64
1:G:1054:TYR:HA	1:G:1057:LEU:HD12	1.79	0.64
1:A:73:ARG:NH1	1:A:74:ASP:OD1	2.30	0.64
1:A:1982:GLU:OE2	1:A:2011:ARG:NH1	2.30	0.64
1:C:951:ARG:HD3	1:C:959:ARG:HE	1.62	0.64
1:C:1008:VAL:HG22	1:C:1009:ASP:H	1.62	0.64
1:C:1117:LEU:HD11	1:C:1139:VAL:HG21	1.80	0.64
1:E:580:GLU:OE1	1:E:686:SER:N	2.25	0.64
1:E:1992:ILE:HD13	1:E:2000:HIS:CG	2.33	0.64
1:G:568:ARG:HB2	1:G:609:HIS:HA	1.78	0.64

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1008:VAL:HG22	1:G:1009:ASP:H	1.62	0.64
1:G:1646:SER:O	1:G:1709:ASN:ND2	2.30	0.64
1:A:1054:TYR:CZ	1:A:1109:LEU:HB3	2.32	0.64
1:C:567:VAL:HB	1:C:570:LEU:HD21	1.78	0.64
1:C:1525:LEU:O	1:C:1528:SER:OG	2.15	0.64
1:C:1528:SER:O	1:C:1531:THR:OG1	2.12	0.64
2:D:118:ASP:O	2:D:122:ASP:N	2.31	0.64
1:E:1750:THR:OG1	1:E:1777:THR:OG1	2.04	0.64
1:G:1607:HIS:HB2	1:G:1616:ALA:HB2	1.79	0.64
1:G:1831:THR:HG22	1:G:1835:LYS:NZ	2.11	0.64
2:H:118:ASP:O	2:H:122:ASP:N	2.31	0.64
1:A:1121:LEU:HD13	1:A:1175:THR:HG21	1.79	0.64
1:C:120:TRP:CZ3	1:C:839:ALA:HB2	2.33	0.64
1:G:1028:LEU:HD22	1:G:1041:ARG:NH1	2.13	0.64
1:A:1655:LEU:O	1:A:1658:SER:OG	2.16	0.64
1:C:348:GLN:HE22	1:C:644:PRO:HD3	1.61	0.64
1:E:908:LEU:HD23	1:E:912:LEU:HD23	1.80	0.64
1:E:920:SER:O	1:E:924:ARG:N	2.28	0.64
1:A:976:GLY:O	1:A:980:ILE:HG13	1.98	0.64
1:A:1054:TYR:HA	1:A:1057:LEU:HD12	1.79	0.64
1:A:1288:LEU:HD13	1:A:1396:LEU:HD21	1.78	0.64
1:A:1756:PHE:O	1:A:1766:GLU:N	2.30	0.64
1:C:975:VAL:O	1:C:979:VAL:HG23	1.97	0.64
1:C:1163:GLU:OE1	1:C:1163:GLU:N	2.31	0.64
1:E:320:THR:HB	1:E:593:SER:HA	1.80	0.64
1:E:1054:TYR:CZ	1:E:1109:LEU:HB3	2.32	0.64
1:E:1163:GLU:OE1	1:E:1163:GLU:N	2.31	0.64
1:G:1054:TYR:OH	1:G:1109:LEU:HB3	1.98	0.64
1:A:938:MET:O	1:A:941:SER:OG	2.14	0.64
1:A:951:ARG:HD3	1:A:959:ARG:HE	1.62	0.64
1:A:979:VAL:HG11	1:A:994:ASN:OD1	1.98	0.64
1:A:1117:LEU:HD11	1:A:1139:VAL:HG21	1.80	0.64
1:A:1163:GLU:N	1:A:1163:GLU:OE1	2.31	0.64
1:A:1992:ILE:HD13	1:A:2000:HIS:CG	2.33	0.64
1:C:565:GLY:O	1:C:611:LYS:NZ	2.25	0.64
1:C:628:THR:HA	1:C:662:LEU:HD13	1.79	0.64
1:C:1847:LEU:HB2	1:C:1882:PHE:HB2	1.80	0.64
2:D:60:GLY:HA2	2:D:97:TRP:CH2	2.31	0.64
1:E:56:PHE:HE2	1:E:1010:ARG:NH2	1.96	0.64
1:E:976:GLY:O	1:E:980:ILE:HG13	1.98	0.64
1:E:1001:LEU:O	1:E:1005:LEU:HG	1.97	0.64

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1420:VAL:O	1:E:1423:SER:OG	2.14	0.64
2:F:118:ASP:O	2:F:122:ASP:N	2.31	0.64
1:G:56:PHE:HE2	1:G:1010:ARG:NH2	1.96	0.64
1:G:976:GLY:O	1:G:980:ILE:HG13	1.98	0.64
1:G:990:ALA:HA	1:G:993:LEU:HD12	1.80	0.64
1:G:1001:LEU:O	1:G:1005:LEU:HG	1.97	0.64
2:H:5:LYS:HZ2	2:H:74:GLN:HB3	1.62	0.64
1:A:1932:MET:HE3	2:B:39:ASN:ND2	2.13	0.64
1:C:976:GLY:O	1:C:980:ILE:HG13	1.98	0.64
1:E:1646:SER:O	1:E:1709:ASN:ND2	2.30	0.64
1:E:1928:LYS:O	1:E:1931:GLN:NE2	2.26	0.64
1:G:951:ARG:HD3	1:G:959:ARG:HH21	1.61	0.64
1:G:975:VAL:O	1:G:979:VAL:HG23	1.97	0.64
1:A:1028:LEU:HD22	1:A:1041:ARG:NH1	2.13	0.63
1:A:1054:TYR:OH	1:A:1109:LEU:HB3	1.98	0.63
1:A:1436:GLY:O	1:A:1439:THR:OG1	2.10	0.63
1:A:1731:GLN:CD	1:C:1731:GLN:HG2	2.22	0.63
1:C:1463:CYS:HA	1:C:1466:LEU:HD12	1.80	0.63
1:C:1530:LYS:O	1:C:1533:LEU:HB2	1.99	0.63
1:E:1463:CYS:HA	1:E:1466:LEU:HD12	1.80	0.63
1:G:951:ARG:HD3	1:G:959:ARG:HE	1.62	0.63
1:G:1121:LEU:HD13	1:G:1175:THR:HG21	1.79	0.63
1:G:1798:VAL:O	1:G:1818:ALA:N	2.27	0.63
1:A:56:PHE:HE2	1:A:1010:ARG:NH2	1.96	0.63
1:A:1589:TYR:H	1:A:1596:ARG:NH1	1.96	0.63
2:B:127:GLU:HA	2:B:130:LYS:HG2	1.81	0.63
1:C:1028:LEU:HD22	1:C:1041:ARG:NH1	2.13	0.63
1:E:231:LEU:HD13	1:E:1259:TRP:HA	1.80	0.63
1:E:1440:GLN:HA	1:E:1443:LEU:HD12	1.80	0.63
1:G:120:TRP:CZ3	1:G:839:ALA:HB2	2.33	0.63
1:G:1420:VAL:O	1:G:1423:SER:OG	2.14	0.63
1:G:1800:GLU:CD	1:G:1817:LYS:HG3	2.23	0.63
1:A:320:THR:HB	1:A:593:SER:HA	1.80	0.63
1:A:632:HIS:CE1	1:A:660:PRO:HA	2.33	0.63
1:A:1727:HIS:CE1	1:C:1731:GLN:HA	2.33	0.63
1:C:979:VAL:HG11	1:C:994:ASN:OD1	1.98	0.63
1:C:1001:LEU:O	1:C:1005:LEU:HG	1.97	0.63
1:E:936:GLN:HA	1:E:939:VAL:HG22	1.79	0.63
1:E:1288:LEU:HD13	1:E:1396:LEU:HD21	1.78	0.63
1:G:567:VAL:HB	1:G:570:LEU:HD21	1.78	0.63
2:H:127:GLU:HA	2:H:130:LYS:HG2	1.81	0.63

*Continued on next page...*



*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:669:THR:HG21	1:E:713:ALA:H	1.62	0.63
1:G:110:ARG:O	1:G:114:GLU:HG2	1.98	0.63
1:G:979:VAL:HG11	1:G:994:ASN:OD1	1.98	0.63
1:G:1163:GLU:N	1:G:1163:GLU:OE1	2.31	0.63
1:A:110:ARG:O	1:A:114:GLU:HG2	1.98	0.63
1:A:120:TRP:CZ3	1:A:839:ALA:HB2	2.33	0.63
2:B:118:ASP:O	2:B:122:ASP:N	2.31	0.63
1:C:1102:PRO:O	1:C:1105:GLN:NE2	2.32	0.63
1:C:1121:LEU:HD13	1:C:1175:THR:HG21	1.79	0.63
1:E:1102:PRO:O	1:E:1105:GLN:NE2	2.32	0.63
1:E:1607:HIS:HB2	1:E:1616:ALA:HB2	1.79	0.63
1:E:1894:ARG:HH12	1:E:1896:GLU:HB2	1.64	0.63
1:G:1463:CYS:HA	1:G:1466:LEU:HD12	1.80	0.63
1:G:1530:LYS:O	1:G:1533:LEU:HB2	1.98	0.63
1:A:553:VAL:HB	1:A:619:PHE:HB2	1.81	0.63
1:A:1440:GLN:HA	1:A:1443:LEU:HD12	1.80	0.63
1:A:1521:SER:HG	1:A:1524:HIS:HD1	1.28	0.63
1:A:1607:HIS:HB2	1:A:1616:ALA:HB2	1.79	0.63
1:C:56:PHE:HE2	1:C:1010:ARG:NH2	1.96	0.63
1:C:1021:TYR:HA	1:C:1024:VAL:HG12	1.79	0.63
1:E:120:TRP:CZ3	1:E:839:ALA:HB2	2.33	0.63
1:A:348:GLN:HE22	1:A:644:PRO:HD3	1.61	0.63
1:A:673:CYS:HB2	1:A:705:GLY:HA3	1.81	0.63
1:C:320:THR:HB	1:C:593:SER:HA	1.80	0.63
1:C:568:ARG:HB2	1:C:609:HIS:HA	1.78	0.63
1:C:632:HIS:CE1	1:C:660:PRO:HA	2.33	0.63
1:C:962:GLY:HA2	1:C:965:LEU:HD12	1.81	0.63
1:C:1800:GLU:CD	1:C:1817:LYS:HG3	2.23	0.63
1:C:1844:ASN:HA	1:C:1847:LEU:HD11	1.80	0.63
1:C:1992:ILE:HD13	1:C:2000:HIS:CG	2.33	0.63
1:E:979:VAL:HG11	1:E:994:ASN:OD1	1.98	0.63
1:E:1525:LEU:O	1:E:1528:SER:OG	2.15	0.63
1:E:1528:SER:O	1:E:1531:THR:OG1	2.12	0.63
1:E:1800:GLU:CD	1:E:1817:LYS:HG3	2.23	0.63
1:G:231:LEU:HD13	1:G:1259:TRP:HA	1.80	0.63
1:G:320:THR:HB	1:G:593:SER:HA	1.80	0.63
1:A:669:THR:HG21	1:A:713:ALA:H	1.62	0.63
1:C:125:ARG:NH1	1:C:1006:SER:OG	2.31	0.63
1:C:1054:TYR:HA	1:C:1057:LEU:HD12	1.79	0.63
1:C:1589:TYR:H	1:C:1596:ARG:NH1	1.97	0.63
1:G:632:HIS:CE1	1:G:660:PRO:HA	2.34	0.63

*Continued on next page...*



*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:908:LEU:HD23	1:G:912:LEU:HD23	1.80	0.63
1:G:1474:ILE:HG22	1:G:1476:THR:HG22	1.81	0.63
1:G:1844:ASN:HA	1:G:1847:LEU:HD11	1.80	0.63
1:G:1982:GLU:OE2	1:G:2011:ARG:NH1	2.30	0.63
1:A:1382:GLY:O	1:A:1386:THR:OG1	2.12	0.63
1:A:1463:CYS:HA	1:A:1466:LEU:HD12	1.80	0.63
1:C:86:LEU:HB2	1:C:122:ILE:HB	1.81	0.63
1:G:673:CYS:HB2	1:G:705:GLY:HA3	1.81	0.63
1:G:1779:LEU:HD13	2:H:26:ASN:OD1	1.99	0.63
1:A:231:LEU:HD13	1:A:1259:TRP:HA	1.80	0.62
1:A:305:MET:HG3	1:A:306:LYS:HD3	1.81	0.62
1:E:1054:TYR:OH	1:E:1109:LEU:HB3	1.98	0.62
1:E:1655:LEU:O	1:E:1658:SER:OG	2.16	0.62
1:E:1999:TYR:HD2	2:F:70:LEU:HB3	1.62	0.62
2:F:60:GLY:HA2	2:F:97:TRP:CH2	2.31	0.62
1:G:229:PRO:O	1:G:1262:LYS:NZ	2.26	0.62
1:G:305:MET:HG3	1:G:306:LYS:HD3	1.81	0.62
1:G:1440:GLN:HA	1:G:1443:LEU:HD12	1.80	0.62
1:A:1800:GLU:CD	1:A:1817:LYS:HG3	2.23	0.62
1:C:990:ALA:HA	1:C:993:LEU:HD12	1.80	0.62
1:C:1054:TYR:OH	1:C:1109:LEU:HB3	1.98	0.62
1:C:1831:THR:HG22	1:C:1835:LYS:NZ	2.12	0.62
1:E:1117:LEU:HD11	1:E:1139:VAL:HG21	1.80	0.62
1:G:1767:GLN:HG2	1:G:1890:ARG:HH12	1.64	0.62
1:A:908:LEU:HD23	1:A:912:LEU:HD23	1.80	0.62
1:A:1649:ASN:OD1	1:A:1650:ILE:HD12	2.00	0.62
1:C:110:ARG:O	1:C:114:GLU:HG2	1.98	0.62
1:C:1440:GLN:HA	1:C:1443:LEU:HD12	1.80	0.62
1:E:585:ALA:HB3	1:E:600:ARG:HH11	1.64	0.62
1:G:1776:ILE:CD1	2:H:45:MET:HG2	2.29	0.62
1:A:1847:LEU:HB2	1:A:1882:PHE:HB2	1.80	0.62
1:C:908:LEU:HD23	1:C:912:LEU:HD23	1.80	0.62
2:D:127:GLU:HA	2:D:130:LYS:HG2	1.81	0.62
1:E:990:ALA:HA	1:E:993:LEU:HD12	1.80	0.62
1:E:1143:LEU:HA	1:E:1146:HIS:CD2	2.35	0.62
1:E:1530:LYS:O	1:E:1533:LEU:HB2	1.99	0.62
1:A:990:ALA:HA	1:A:993:LEU:HD12	1.80	0.62
1:C:1001:LEU:O	1:C:1004:LEU:HB3	1.99	0.62
1:C:1894:ARG:HH12	1:C:1896:GLU:HB2	1.64	0.62
1:E:1001:LEU:O	1:E:1004:LEU:HB3	1.99	0.62
1:E:1521:SER:OG	1:E:1524:HIS:ND1	2.20	0.62

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1844:ASN:HA	1:E:1847:LEU:HD11	1.81	0.62
1:A:1530:LYS:O	1:A:1533:LEU:HB2	1.99	0.62
1:C:553:VAL:HB	1:C:619:PHE:HB2	1.81	0.62
1:C:585:ALA:HB3	1:C:600:ARG:HH11	1.64	0.62
1:C:1800:GLU:HB3	1:C:1817:LYS:HE2	1.82	0.62
1:E:1028:LEU:HD22	1:E:1041:ARG:NH1	2.13	0.62
1:E:1932:MET:HG3	2:F:39:ASN:HB3	1.82	0.62
1:G:1403:VAL:HA	1:G:1409:ARG:HD3	1.82	0.62
1:C:305:MET:HG3	1:C:306:LYS:HD3	1.81	0.62
1:C:1143:LEU:HA	1:C:1146:HIS:CD2	2.35	0.62
1:E:110:ARG:O	1:E:114:GLU:HG2	1.98	0.62
1:E:125:ARG:NH1	1:E:1006:SER:OG	2.31	0.62
1:E:553:VAL:HB	1:E:619:PHE:HB2	1.81	0.62
1:E:632:HIS:CE1	1:E:660:PRO:HA	2.34	0.62
1:E:1847:LEU:HB2	1:E:1882:PHE:HB2	1.80	0.62
1:G:962:GLY:HA2	1:G:965:LEU:HD12	1.81	0.62
1:G:1001:LEU:O	1:G:1004:LEU:HB3	1.99	0.62
1:G:1589:TYR:H	1:G:1596:ARG:NH1	1.96	0.62
1:G:1597:LEU:O	1:G:1601:GLN:HG3	2.00	0.62
1:A:1403:VAL:HA	1:A:1409:ARG:HD3	1.82	0.62
1:A:1597:LEU:O	1:A:1601:GLN:HG3	2.00	0.62
1:C:231:LEU:HD13	1:C:1259:TRP:HA	1.80	0.62
1:C:1767:GLN:HG2	1:C:1890:ARG:HH12	1.64	0.62
2:D:94:ARG:NH2	2:D:145:MET:O	2.33	0.62
1:E:1403:VAL:HA	1:E:1409:ARG:HD3	1.82	0.62
2:F:127:GLU:HA	2:F:130:LYS:HG2	1.81	0.62
1:G:585:ALA:HB3	1:G:600:ARG:HH11	1.64	0.62
1:G:1117:LEU:HD11	1:G:1139:VAL:HG21	1.80	0.62
1:A:248:SER:OG	1:A:826:ARG:NH2	2.33	0.62
1:C:673:CYS:HB2	1:C:705:GLY:HA3	1.80	0.62
2:D:8:VAL:O	2:D:58:THR:OG1	2.18	0.62
1:E:86:LEU:HB2	1:E:122:ILE:HB	1.81	0.62
1:E:248:SER:OG	1:E:826:ARG:NH2	2.33	0.62
1:G:466:ARG:HD2	1:G:607:VAL:HG22	1.81	0.62
1:G:553:VAL:HB	1:G:619:PHE:HB2	1.81	0.62
1:G:912:LEU:HD11	1:G:938:MET:SD	2.40	0.62
1:G:1099:LEU:HG	1:G:1104:ARG:HH21	1.65	0.62
1:G:1382:GLY:O	1:G:1386:THR:OG1	2.12	0.62
1:G:1649:ASN:OD1	1:G:1650:ILE:HD12	2.00	0.62
1:A:1767:GLN:HG2	1:A:1890:ARG:HH12	1.64	0.62
1:A:1894:ARG:HH12	1:A:1896:GLU:HB2	1.64	0.62

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1954:LEU:O	1:A:1971:ARG:NH2	2.33	0.62
1:E:789:ARG:NH2	1:E:903:LEU:O	2.33	0.62
1:E:1589:TYR:H	1:E:1596:ARG:NH1	1.96	0.62
1:C:688:LEU:HD13	1:C:692:VAL:HB	1.82	0.61
1:C:965:LEU:HB3	1:C:1012:PHE:CE2	2.35	0.61
1:C:1117:LEU:HD23	1:C:1135:ALA:HB1	1.79	0.61
1:C:1954:LEU:O	1:C:1971:ARG:NH2	2.33	0.61
1:E:1117:LEU:HD23	1:E:1135:ALA:HB1	1.80	0.61
1:E:1474:ILE:HG22	1:E:1476:THR:HG22	1.81	0.61
1:E:1954:LEU:O	1:E:1971:ARG:NH2	2.33	0.61
2:F:8:VAL:O	2:F:58:THR:OG1	2.18	0.61
2:F:94:ARG:NH2	2:F:145:MET:O	2.33	0.61
1:G:938:MET:O	1:G:941:SER:OG	2.14	0.61
1:G:1894:ARG:HH12	1:G:1896:GLU:HB2	1.64	0.61
1:A:1474:ILE:HG22	1:A:1476:THR:HG22	1.81	0.61
1:C:1649:ASN:OD1	1:C:1650:ILE:HD12	2.00	0.61
1:E:1649:ASN:OD1	1:E:1650:ILE:HD12	2.00	0.61
1:G:1259:TRP:CD1	1:G:1263:ASN:HD21	2.19	0.61
1:G:1800:GLU:HB3	1:G:1817:LYS:HE2	1.82	0.61
1:G:1828:TYR:O	1:G:1849:THR:OG1	2.18	0.61
1:A:125:ARG:NH1	1:A:1006:SER:OG	2.31	0.61
1:A:393:PRO:HG3	1:A:466:ARG:HG2	1.82	0.61
1:A:789:ARG:HH12	1:A:844:GLY:HA3	1.66	0.61
1:A:789:ARG:NH2	1:A:903:LEU:O	2.33	0.61
1:A:1102:PRO:O	1:A:1105:GLN:NE2	2.32	0.61
1:A:1476:THR:O	1:A:1480:HIS:ND1	2.26	0.61
1:A:1522:GLU:H	1:A:1522:GLU:CD	2.09	0.61
2:B:94:ARG:NH2	2:B:145:MET:O	2.33	0.61
1:C:58:ASP:O	1:C:62:SER:HB3	2.01	0.61
1:G:248:SER:OG	1:G:826:ARG:NH2	2.33	0.61
1:G:789:ARG:HH12	1:G:844:GLY:HA3	1.66	0.61
1:G:1522:GLU:H	1:G:1522:GLU:CD	2.09	0.61
1:A:86:LEU:HB2	1:A:122:ILE:HB	1.81	0.61
1:A:585:ALA:HB3	1:A:600:ARG:HH11	1.64	0.61
2:B:8:VAL:O	2:B:58:THR:OG1	2.18	0.61
1:C:466:ARG:HD2	1:C:607:VAL:HG22	1.81	0.61
1:C:789:ARG:NH2	1:C:903:LEU:O	2.33	0.61
1:C:1415:ALA:O	1:C:1418:LYS:HG2	2.00	0.61
1:C:1828:TYR:O	1:C:1849:THR:OG1	2.18	0.61
1:C:1928:LYS:O	1:C:1931:GLN:NE2	2.26	0.61
1:E:305:MET:HG3	1:E:306:LYS:HD3	1.81	0.61

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:461:LYS:HD3	1:E:490:ARG:HD2	1.83	0.61
1:E:1772:LYS:NZ	1:E:1883:PRO:HA	2.16	0.61
1:G:1704:ASN:O	1:G:1708:LYS:HG3	2.00	0.61
1:G:1847:LEU:HB2	1:G:1882:PHE:HB2	1.80	0.61
2:H:120:ARG:HA	2:H:126:ILE:HD11	1.83	0.61
1:A:962:GLY:HA2	1:A:965:LEU:HD12	1.81	0.61
2:B:120:ARG:HA	2:B:126:ILE:HD11	1.83	0.61
1:C:393:PRO:HG3	1:C:466:ARG:HG2	1.82	0.61
1:C:461:LYS:HD3	1:C:490:ARG:HD2	1.83	0.61
2:D:120:ARG:HA	2:D:126:ILE:HD11	1.83	0.61
1:E:58:ASP:O	1:E:62:SER:HB3	2.01	0.61
1:E:548:ARG:N	1:E:716:SER:OG	2.31	0.61
1:E:673:CYS:HB2	1:E:705:GLY:HA3	1.80	0.61
1:E:912:LEU:HD11	1:E:938:MET:SD	2.40	0.61
1:E:1037:LEU:HG	1:E:1041:ARG:NH1	2.16	0.61
1:E:1800:GLU:HB3	1:E:1817:LYS:HE2	1.82	0.61
1:E:1828:TYR:O	1:E:1849:THR:OG1	2.18	0.61
1:G:1954:LEU:O	1:G:1971:ARG:NH2	2.33	0.61
1:A:1001:LEU:O	1:A:1004:LEU:HB3	2.00	0.61
1:A:1749:GLY:CA	1:A:1773:GLU:O	2.49	0.61
1:A:1844:ASN:HA	1:A:1847:LEU:HD11	1.80	0.61
1:C:248:SER:OG	1:C:826:ARG:NH2	2.33	0.61
1:C:912:LEU:HD11	1:C:938:MET:SD	2.40	0.61
1:C:1259:TRP:CD1	1:C:1263:ASN:HD21	2.19	0.61
1:E:962:GLY:HA2	1:E:965:LEU:HD12	1.81	0.61
1:E:1704:ASN:O	1:E:1708:LYS:HG3	2.00	0.61
1:E:1749:GLY:CA	1:E:1773:GLU:O	2.49	0.61
1:E:1838:VAL:O	1:E:1843:ARG:NH2	2.34	0.61
1:G:1102:PRO:O	1:G:1105:GLN:NE2	2.32	0.61
1:A:142:GLN:O	1:A:146:GLN:N	2.34	0.61
1:A:544:HIS:HB2	1:A:777:HIS:CE1	2.36	0.61
1:C:544:HIS:HB2	1:C:777:HIS:CE1	2.36	0.61
1:C:1037:LEU:HG	1:C:1041:ARG:NH1	2.16	0.61
1:C:1099:LEU:HG	1:C:1104:ARG:HH21	1.65	0.61
1:E:789:ARG:HH12	1:E:844:GLY:HA3	1.66	0.61
1:G:393:PRO:HG3	1:G:466:ARG:HG2	1.82	0.61
1:G:1258:LEU:HD21	1:G:1291:CYS:SG	2.41	0.61
1:A:912:LEU:HD11	1:A:938:MET:SD	2.40	0.61
1:C:580:GLU:OE1	1:C:686:SER:N	2.25	0.61
1:C:1597:LEU:O	1:C:1601:GLN:HG3	2.00	0.61
1:E:393:PRO:HG3	1:E:466:ARG:HG2	1.82	0.61

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:979:VAL:HG22	1:E:993:LEU:HD13	1.83	0.61
1:E:1597:LEU:O	1:E:1601:GLN:HG3	2.00	0.61
1:G:1415:ALA:O	1:G:1418:LYS:HG2	2.01	0.61
1:G:1772:LYS:NZ	1:G:1883:PRO:HA	2.16	0.61
1:A:1258:LEU:HD21	1:A:1291:CYS:SG	2.41	0.61
1:A:1772:LYS:NZ	1:A:1883:PRO:HA	2.16	0.61
1:C:1403:VAL:HA	1:C:1409:ARG:HD3	1.82	0.61
1:C:1502:VAL:HA	1:C:1505:GLN:NE2	2.16	0.61
1:G:789:ARG:NH2	1:G:903:LEU:O	2.33	0.61
1:G:1143:LEU:HA	1:G:1146:HIS:CD2	2.35	0.61
2:H:94:ARG:NH2	2:H:145:MET:O	2.33	0.61
1:C:142:GLN:O	1:C:146:GLN:N	2.34	0.61
1:C:1474:ILE:HG22	1:C:1476:THR:HG22	1.81	0.61
1:E:466:ARG:HD2	1:E:607:VAL:HG22	1.81	0.61
1:G:86:LEU:HB2	1:G:122:ILE:HB	1.81	0.61
1:G:1502:VAL:HA	1:G:1505:GLN:NE2	2.16	0.61
2:H:8:VAL:O	2:H:58:THR:OG1	2.18	0.61
1:A:1143:LEU:HA	1:A:1146:HIS:CD2	2.35	0.60
1:A:1704:ASN:O	1:A:1708:LYS:HG3	2.00	0.60
1:C:979:VAL:HG22	1:C:993:LEU:HD13	1.83	0.60
1:E:688:LEU:HD13	1:E:692:VAL:HB	1.82	0.60
1:G:677:SER:OG	1:G:697:MET:SD	2.59	0.60
1:A:1415:ALA:O	1:A:1418:LYS:HG2	2.00	0.60
1:A:1831:THR:HG22	1:A:1835:LYS:NZ	2.11	0.60
1:C:1618:GLN:O	1:C:1622:HIS:ND1	2.34	0.60
1:E:142:GLN:O	1:E:146:GLN:N	2.34	0.60
1:E:229:PRO:O	1:E:1262:LYS:NZ	2.26	0.60
1:E:1128:ALA:O	1:E:1132:HIS:ND1	2.34	0.60
2:F:120:ARG:HA	2:F:126:ILE:HD11	1.83	0.60
1:G:1028:LEU:HD13	1:G:1037:LEU:HD23	1.83	0.60
1:A:688:LEU:HD13	1:A:692:VAL:HB	1.82	0.60
1:A:965:LEU:HB3	1:A:1012:PHE:CE2	2.36	0.60
1:A:1028:LEU:HD13	1:A:1037:LEU:HD23	1.83	0.60
1:A:1459:CYS:O	1:A:1462:LEU:HB3	2.01	0.60
1:A:1567:LYS:O	1:A:1570:GLU:HG3	2.02	0.60
1:E:1502:VAL:HA	1:E:1505:GLN:NE2	2.16	0.60
1:G:58:ASP:O	1:G:62:SER:HB3	2.01	0.60
1:G:965:LEU:HB3	1:G:1012:PHE:CE2	2.36	0.60
1:G:1838:VAL:O	1:G:1843:ARG:NH2	2.34	0.60
1:A:979:VAL:HG22	1:A:993:LEU:HD13	1.83	0.60
1:A:1099:LEU:HG	1:A:1104:ARG:HH21	1.65	0.60

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1128:ALA:O	1:A:1132:HIS:ND1	2.34	0.60
1:A:1259:TRP:CD1	1:A:1263:ASN:HD21	2.19	0.60
1:E:1410:GLU:HG2	1:E:1411:SER:H	1.66	0.60
1:E:1459:CYS:O	1:E:1462:LEU:HB3	2.01	0.60
1:E:1831:THR:HG22	1:E:1835:LYS:NZ	2.11	0.60
1:G:544:HIS:HB2	1:G:777:HIS:CE1	2.36	0.60
1:G:1945:GLY:HA2	2:H:37:PHE:CE1	2.35	0.60
1:A:152:GLN:OE1	1:A:1383:ASN:ND2	2.35	0.60
1:A:466:ARG:HD2	1:A:607:VAL:HG22	1.81	0.60
1:A:902:ILE:O	1:A:906:LYS:HB2	2.02	0.60
1:A:1037:LEU:HG	1:A:1041:ARG:NH1	2.16	0.60
1:A:1618:GLN:O	1:A:1622:HIS:ND1	2.34	0.60
1:A:1838:VAL:O	1:A:1843:ARG:NH2	2.34	0.60
1:A:1872:ARG:HA	1:A:1897:THR:O	2.02	0.60
1:A:1937:SER:HA	2:B:37:PHE:CE2	2.36	0.60
1:C:1749:GLY:CA	1:C:1773:GLU:O	2.49	0.60
1:C:1772:LYS:NZ	1:C:1883:PRO:HA	2.16	0.60
1:E:1028:LEU:HD13	1:E:1037:LEU:HD23	1.83	0.60
1:E:1770:VAL:O	1:E:1888:ARG:HA	2.01	0.60
1:G:1872:ARG:HA	1:G:1897:THR:O	2.02	0.60
1:A:1410:GLU:HG2	1:A:1411:SER:H	1.66	0.60
1:A:1488:LEU:HA	1:A:1491:GLN:HE21	1.67	0.60
1:A:1618:GLN:HE22	1:A:1883:PRO:C	2.10	0.60
1:C:152:GLN:OE1	1:C:1383:ASN:ND2	2.35	0.60
1:C:1704:ASN:O	1:C:1708:LYS:HG3	2.00	0.60
1:C:1872:ARG:HA	1:C:1897:THR:O	2.02	0.60
1:E:544:HIS:HB2	1:E:777:HIS:CE1	2.36	0.60
1:E:1767:GLN:HG2	1:E:1890:ARG:HH12	1.64	0.60
1:G:142:GLN:O	1:G:146:GLN:N	2.34	0.60
1:G:461:LYS:HD3	1:G:490:ARG:HD2	1.83	0.60
1:G:1749:GLY:CA	1:G:1773:GLU:O	2.49	0.60
1:A:461:LYS:HD3	1:A:490:ARG:HD2	1.83	0.60
1:C:471:ASP:OD1	1:C:472:LEU:N	2.34	0.60
1:C:902:ILE:O	1:C:906:LYS:HB2	2.02	0.60
1:C:1258:LEU:HD21	1:C:1291:CYS:SG	2.41	0.60
1:C:1838:VAL:O	1:C:1843:ARG:NH2	2.34	0.60
1:E:965:LEU:HB3	1:E:1012:PHE:CE2	2.35	0.60
1:E:1618:GLN:O	1:E:1622:HIS:ND1	2.34	0.60
1:G:56:PHE:CD2	1:G:1010:ARG:HB2	2.36	0.60
1:G:947:LEU:O	1:G:950:GLN:NE2	2.35	0.60
1:G:1618:GLN:O	1:G:1622:HIS:ND1	2.34	0.60

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:120:TRP:CH2	1:A:253:PRO:HD2	2.37	0.60
1:A:471:ASP:OD1	1:A:472:LEU:N	2.34	0.60
1:A:1828:TYR:O	1:A:1849:THR:OG1	2.18	0.60
1:C:56:PHE:CD2	1:C:1010:ARG:HB2	2.36	0.60
1:C:120:TRP:CH2	1:C:253:PRO:HD2	2.37	0.60
1:C:408:ALA:HB1	1:C:450:ARG:HB2	1.84	0.60
1:E:471:ASP:OD1	1:E:472:LEU:N	2.34	0.60
1:E:1259:TRP:CD1	1:E:1263:ASN:HD21	2.19	0.60
1:G:125:ARG:NH1	1:G:1006:SER:OG	2.31	0.60
1:G:138:THR:H	1:G:141:THR:HG22	1.67	0.60
1:G:688:LEU:HD13	1:G:692:VAL:HB	1.82	0.60
1:G:1410:GLU:HG2	1:G:1411:SER:H	1.66	0.60
1:G:1459:CYS:O	1:G:1462:LEU:HB3	2.01	0.60
1:A:543:PRO:HA	1:A:774:ALA:HA	1.84	0.60
1:A:1800:GLU:HB3	1:A:1817:LYS:HE2	1.82	0.60
1:C:947:LEU:O	1:C:950:GLN:NE2	2.35	0.60
1:C:1424:LEU:HD21	1:C:1436:GLY:HA3	1.84	0.60
1:E:158:ALA:HB1	1:E:1473:ARG:HB2	1.84	0.60
1:E:1099:LEU:HG	1:E:1104:ARG:HH21	1.65	0.60
1:E:1298:LYS:HB2	1:E:1303:PHE:CE1	2.37	0.60
1:G:120:TRP:CH2	1:G:253:PRO:HD2	2.37	0.60
1:G:1023:GLN:O	1:G:1026:THR:OG1	2.19	0.60
1:G:1128:ALA:O	1:G:1132:HIS:ND1	2.34	0.60
1:G:1488:LEU:HA	1:G:1491:GLN:HE21	1.67	0.60
1:C:1521:SER:OG	1:C:1524:HIS:ND1	2.20	0.60
1:C:1770:VAL:O	1:C:1888:ARG:HA	2.01	0.60
1:C:1786:LEU:HD13	1:C:1820:ILE:HD13	1.84	0.60
1:E:565:GLY:O	1:E:611:LYS:NZ	2.25	0.60
1:E:1424:LEU:HD21	1:E:1436:GLY:HA3	1.84	0.60
1:E:1872:ARG:HA	1:E:1897:THR:O	2.02	0.60
1:G:920:SER:O	1:G:924:ARG:N	2.28	0.60
1:G:1037:LEU:HG	1:G:1041:ARG:NH1	2.16	0.60
1:A:58:ASP:O	1:A:62:SER:HB3	2.01	0.59
1:A:1770:VAL:O	1:A:1888:ARG:HA	2.01	0.59
1:C:548:ARG:N	1:C:716:SER:OG	2.31	0.59
1:G:1655:LEU:O	1:G:1658:SER:OG	2.16	0.59
1:G:1803:LYS:HZ1	2:H:160:LEU:HG	1.67	0.59
1:A:56:PHE:CD2	1:A:1010:ARG:HB2	2.36	0.59
1:A:909:HIS:O	1:A:912:LEU:HG	2.03	0.59
1:A:1803:LYS:HZ3	2:B:28:PHE:HZ	1.50	0.59
1:C:789:ARG:HH12	1:C:844:GLY:HA3	1.66	0.59

*Continued on next page...*



*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1128:ALA:O	1:C:1132:HIS:ND1	2.34	0.59
1:E:1258:LEU:HD21	1:E:1291:CYS:SG	2.41	0.59
1:E:1415:ALA:O	1:E:1418:LYS:HG2	2.01	0.59
1:E:1567:LYS:O	1:E:1570:GLU:HG3	2.02	0.59
1:E:1825:VAL:HB	1:E:1850:PHE:HB3	1.84	0.59
1:G:152:GLN:OE1	1:G:1383:ASN:ND2	2.35	0.59
1:A:1298:LYS:HB2	1:A:1303:PHE:CE1	2.37	0.59
1:A:1798:VAL:O	1:A:1818:ALA:N	2.27	0.59
1:C:677:SER:OG	1:C:697:MET:SD	2.59	0.59
1:C:1028:LEU:HD13	1:C:1037:LEU:HD23	1.83	0.59
1:E:947:LEU:O	1:E:950:GLN:NE2	2.35	0.59
1:E:996:SER:HA	1:E:999:PHE:HD2	1.67	0.59
1:E:1488:LEU:HA	1:E:1491:GLN:HE21	1.67	0.59
1:G:454:LEU:HB3	1:G:456:VAL:HG13	1.85	0.59
1:G:471:ASP:OD1	1:G:472:LEU:N	2.34	0.59
1:G:1770:VAL:O	1:G:1888:ARG:HA	2.01	0.59
1:A:947:LEU:O	1:A:950:GLN:NE2	2.35	0.59
1:C:1459:CYS:O	1:C:1462:LEU:HB3	2.01	0.59
1:C:1488:LEU:HA	1:C:1491:GLN:HE21	1.67	0.59
1:E:152:GLN:OE1	1:E:1383:ASN:ND2	2.35	0.59
1:E:1562:LEU:O	1:E:1565:THR:OG1	2.19	0.59
2:F:9:VAL:HG22	2:F:97:TRP:CZ3	2.37	0.59
1:G:979:VAL:HG22	1:G:993:LEU:HD13	1.83	0.59
1:G:996:SER:HA	1:G:999:PHE:HD2	1.67	0.59
1:G:1786:LEU:HD13	1:G:1820:ILE:HD13	1.84	0.59
2:H:9:VAL:HG22	2:H:97:TRP:CZ3	2.37	0.59
1:A:1928:LYS:O	1:A:1931:GLN:NE2	2.26	0.59
1:C:909:HIS:O	1:C:912:LEU:HG	2.02	0.59
1:C:1727:HIS:O	1:C:1731:GLN:NE2	2.36	0.59
1:E:1522:GLU:H	1:E:1522:GLU:CD	2.09	0.59
1:E:1618:GLN:HE22	1:E:1883:PRO:C	2.10	0.59
1:G:902:ILE:O	1:G:906:LYS:HB2	2.02	0.59
1:G:1825:VAL:HB	1:G:1850:PHE:HB3	1.84	0.59
1:A:56:PHE:HE2	1:A:1010:ARG:CZ	2.16	0.59
1:A:1428:GLN:HE21	1:A:1433:LEU:HD21	1.68	0.59
1:A:1502:VAL:HA	1:A:1505:GLN:NE2	2.16	0.59
1:C:543:PRO:HA	1:C:774:ALA:HA	1.84	0.59
1:C:1272:TRP:NE1	1:C:1276:LEU:HD11	2.18	0.59
1:C:1298:LYS:HB2	1:C:1303:PHE:CE1	2.37	0.59
1:E:56:PHE:CD2	1:E:1010:ARG:HB2	2.36	0.59
1:E:454:LEU:HB3	1:E:456:VAL:HG13	1.85	0.59

*Continued on next page...*



*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:902:ILE:O	1:E:906:LYS:HB2	2.02	0.59
1:E:909:HIS:O	1:E:912:LEU:HG	2.03	0.59
1:G:1424:LEU:HD21	1:G:1436:GLY:HA3	1.84	0.59
1:G:1565:THR:O	1:G:1569:LYS:HG2	2.03	0.59
1:G:1776:ILE:HD12	2:H:45:MET:HG2	1.83	0.59
1:A:138:THR:H	1:A:141:THR:HG22	1.67	0.59
1:A:1272:TRP:O	1:A:1276:LEU:HG	2.03	0.59
1:C:775:PHE:HA	1:C:777:HIS:NE2	2.18	0.59
1:C:996:SER:HA	1:C:999:PHE:HD2	1.67	0.59
1:E:56:PHE:HE2	1:E:1010:ARG:CZ	2.16	0.59
1:E:120:TRP:CH2	1:E:253:PRO:HD2	2.37	0.59
1:G:1146:HIS:HA	1:G:1149:ASP:OD2	2.03	0.59
1:G:1298:LYS:HB2	1:G:1303:PHE:CE1	2.37	0.59
1:G:1567:LYS:O	1:G:1570:GLU:HG3	2.02	0.59
1:A:454:LEU:HB3	1:A:456:VAL:HG13	1.85	0.59
1:A:938:MET:HE1	1:A:942:MET:HE3	1.85	0.59
1:A:1424:LEU:HD21	1:A:1436:GLY:HA3	1.84	0.59
2:B:9:VAL:HG22	2:B:97:TRP:CZ3	2.37	0.59
1:C:138:THR:H	1:C:141:THR:HG22	1.67	0.59
1:C:283:LEU:HD12	1:C:338:LEU:HB2	1.85	0.59
1:C:1798:VAL:O	1:C:1818:ALA:N	2.27	0.59
1:C:1825:VAL:HB	1:C:1850:PHE:HB3	1.84	0.59
2:D:9:VAL:HG22	2:D:97:TRP:CZ3	2.37	0.59
1:G:1272:TRP:NE1	1:G:1276:LEU:HD11	2.18	0.59
1:A:1727:HIS:O	1:A:1731:GLN:NE2	2.36	0.59
1:E:408:ALA:HB1	1:E:450:ARG:HB2	1.84	0.59
1:G:76:VAL:HG23	1:G:1060:PRO:HD2	1.85	0.59
1:G:231:LEU:HD12	1:G:1262:LYS:HD2	1.85	0.59
1:G:283:LEU:HD12	1:G:338:LEU:HB2	1.85	0.59
1:A:996:SER:HA	1:A:999:PHE:HD2	1.67	0.59
1:C:158:ALA:HB1	1:C:1473:ARG:HB2	1.84	0.59
1:C:1382:GLY:O	1:C:1386:THR:OG1	2.12	0.59
1:C:1567:LYS:O	1:C:1570:GLU:HG3	2.02	0.59
1:E:138:THR:H	1:E:141:THR:HG22	1.67	0.59
1:E:1565:THR:O	1:E:1569:LYS:HG2	2.03	0.59
1:G:1572:GLN:HG3	1:G:1573:GLU:OE1	2.03	0.59
1:G:1727:HIS:O	1:G:1731:GLN:NE2	2.36	0.59
1:A:231:LEU:HD12	1:A:1262:LYS:HD2	1.85	0.58
1:A:509:PHE:HE2	1:A:523:ASP:HB2	1.69	0.58
1:A:1146:HIS:HA	1:A:1149:ASP:OD2	2.03	0.58
1:A:1464:LEU:HG	1:A:1513:LEU:HD11	1.84	0.58

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1525:LEU:O	1:A:1528:SER:OG	2.15	0.58
1:A:1572:GLN:HG3	1:A:1573:GLU:OE1	2.03	0.58
1:A:1786:LEU:HD13	1:A:1820:ILE:HD13	1.84	0.58
1:C:231:LEU:HD12	1:C:1262:LYS:HD2	1.84	0.58
1:C:1410:GLU:HG2	1:C:1411:SER:H	1.66	0.58
1:E:280:ILE:HA	1:E:296:PHE:O	2.03	0.58
1:E:775:PHE:HA	1:E:777:HIS:NE2	2.18	0.58
1:E:1698:GLY:O	1:E:1746:ARG:NH2	2.36	0.58
1:E:1727:HIS:O	1:E:1731:GLN:NE2	2.36	0.58
1:G:223:ARG:NH2	1:G:224:ARG:HH12	2.01	0.58
1:G:280:ILE:HA	1:G:296:PHE:O	2.03	0.58
1:G:283:LEU:H	1:G:293:SER:HB3	1.68	0.58
1:G:977:LEU:HA	1:G:980:ILE:HD12	1.85	0.58
1:A:920:SER:O	1:A:924:ARG:N	2.28	0.58
2:B:105:CYS:SG	2:B:108:THR:HB	2.44	0.58
1:C:454:LEU:HB3	1:C:456:VAL:HG13	1.85	0.58
1:C:1146:HIS:HA	1:C:1149:ASP:OD2	2.03	0.58
1:C:1272:TRP:O	1:C:1276:LEU:HG	2.03	0.58
1:C:1522:GLU:H	1:C:1522:GLU:CD	2.08	0.58
1:G:543:PRO:HA	1:G:774:ALA:HA	1.84	0.58
1:G:938:MET:HE1	1:G:942:MET:HE3	1.85	0.58
1:G:1476:THR:O	1:G:1480:HIS:ND1	2.26	0.58
1:G:1525:LEU:O	1:G:1528:SER:OG	2.15	0.58
1:G:1534:THR:HA	1:G:1537:GLU:OE2	2.03	0.58
1:G:1554:LEU:O	1:G:1558:LEU:HG	2.03	0.58
1:C:226:HIS:ND1	1:C:226:HIS:O	2.36	0.58
1:C:1534:THR:HA	1:C:1537:GLU:OE2	2.04	0.58
1:C:1565:THR:O	1:C:1569:LYS:HG2	2.03	0.58
1:E:283:LEU:H	1:E:293:SER:HB3	1.68	0.58
1:E:1146:HIS:HA	1:E:1149:ASP:OD2	2.03	0.58
1:E:1992:ILE:HD12	1:E:1997:LYS:HD3	1.86	0.58
1:G:909:HIS:O	1:G:912:LEU:HG	2.02	0.58
1:A:280:ILE:HA	1:A:296:PHE:O	2.03	0.58
1:E:231:LEU:HD12	1:E:1262:LYS:HD2	1.84	0.58
1:E:1534:THR:HA	1:E:1537:GLU:OE2	2.04	0.58
1:E:1572:GLN:HG3	1:E:1573:GLU:OE1	2.03	0.58
1:G:774:ALA:O	1:G:777:HIS:NE2	2.36	0.58
1:G:775:PHE:HA	1:G:777:HIS:NE2	2.18	0.58
1:G:965:LEU:HA	1:G:968:ILE:HD12	1.86	0.58
1:G:1045:THR:O	1:G:1048:LEU:HG	2.03	0.58
1:G:1662:ASP:HA	1:G:1665:LEU:HD12	1.85	0.58

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:127:TYR:HB3	1:A:130:LEU:HD13	1.86	0.58
1:A:977:LEU:HA	1:A:980:ILE:HD12	1.85	0.58
1:A:1698:GLY:O	1:A:1746:ARG:NH2	2.36	0.58
1:A:1727:HIS:NE2	1:C:1731:GLN:HA	2.19	0.58
1:C:965:LEU:HA	1:C:968:ILE:HD12	1.86	0.58
1:C:1156:THR:O	1:C:1160:ARG:HG2	2.03	0.58
1:C:1486:TYR:OH	1:C:1539:ASP:HB2	2.04	0.58
1:E:76:VAL:HG23	1:E:1060:PRO:HD2	1.85	0.58
1:G:408:ALA:HB1	1:G:450:ARG:HB2	1.84	0.58
1:G:1156:THR:O	1:G:1160:ARG:HG2	2.03	0.58
1:G:1963:LEU:O	1:G:1967:HIS:ND1	2.28	0.58
1:G:1992:ILE:HD12	1:G:1997:LYS:HD3	1.86	0.58
1:A:1534:THR:HA	1:A:1537:GLU:OE2	2.04	0.58
1:A:1694:PHE:HB3	1:A:1699:LEU:O	2.04	0.58
1:C:1045:THR:O	1:C:1048:LEU:HG	2.03	0.58
1:C:1464:LEU:HG	1:C:1513:LEU:HD11	1.84	0.58
1:E:1464:LEU:HG	1:E:1513:LEU:HD11	1.84	0.58
2:F:105:CYS:SG	2:F:108:THR:HB	2.44	0.58
1:A:408:ALA:HB1	1:A:450:ARG:HB2	1.84	0.58
1:A:588:VAL:O	1:A:622:HIS:ND1	2.35	0.58
1:A:1662:ASP:HA	1:A:1665:LEU:HD12	1.85	0.58
1:A:1720:TYR:HB3	1:C:1738:MET:HE2	1.85	0.58
1:A:1992:ILE:HD12	1:A:1997:LYS:HD3	1.86	0.58
2:B:9:VAL:HG12	2:B:78:PHE:HZ	1.68	0.58
1:C:1168:LEU:HD23	1:C:1171:ILE:HD12	1.86	0.58
1:C:1572:GLN:HG3	1:C:1573:GLU:OE1	2.04	0.58
1:C:1662:ASP:HA	1:C:1665:LEU:HD12	1.85	0.58
1:E:226:HIS:ND1	1:E:226:HIS:O	2.36	0.58
1:E:938:MET:HE1	1:E:942:MET:HE3	1.85	0.58
1:E:1272:TRP:NE1	1:E:1276:LEU:HD11	2.18	0.58
1:E:1662:ASP:HA	1:E:1665:LEU:HD12	1.85	0.58
1:E:1786:LEU:HD13	1:E:1820:ILE:HD13	1.84	0.58
2:F:4:ILE:HD13	2:F:176:VAL:HG21	1.85	0.58
1:G:1694:PHE:HB3	1:G:1699:LEU:O	2.04	0.58
1:A:283:LEU:H	1:A:293:SER:HB3	1.68	0.58
1:A:775:PHE:HA	1:A:777:HIS:NE2	2.18	0.58
1:A:1825:VAL:HB	1:A:1850:PHE:HB3	1.84	0.58
1:C:127:TYR:HB3	1:C:130:LEU:HD13	1.86	0.58
1:C:259:GLN:HB2	1:C:329:VAL:HB	1.86	0.58
1:C:1698:GLY:HA2	1:C:1700:TYR:CE2	2.39	0.58
2:D:4:ILE:HD13	2:D:176:VAL:HG21	1.85	0.58

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:997:LEU:O	1:E:1001:LEU:HG	2.04	0.58
1:E:1486:TYR:OH	1:E:1539:ASP:HB2	2.04	0.58
1:G:259:GLN:HB2	1:G:329:VAL:HB	1.86	0.58
1:G:1272:TRP:O	1:G:1276:LEU:HG	2.03	0.58
1:G:1464:LEU:HG	1:G:1513:LEU:HD11	1.84	0.58
1:G:1486:TYR:OH	1:G:1539:ASP:HB2	2.04	0.58
1:A:283:LEU:HD12	1:A:338:LEU:HB2	1.85	0.58
2:B:4:ILE:HD13	2:B:176:VAL:HG21	1.85	0.58
1:C:280:ILE:HA	1:C:296:PHE:O	2.03	0.58
1:C:1992:ILE:HD12	1:C:1997:LYS:HD3	1.86	0.58
1:E:509:PHE:HE2	1:E:523:ASP:HB2	1.68	0.58
1:G:56:PHE:HE2	1:G:1010:ARG:CZ	2.16	0.58
1:G:226:HIS:ND1	1:G:226:HIS:O	2.36	0.58
1:G:1562:LEU:O	1:G:1565:THR:OG1	2.19	0.58
1:A:965:LEU:HA	1:A:968:ILE:HD12	1.86	0.58
1:A:1272:TRP:NE1	1:A:1276:LEU:HD11	2.18	0.58
1:C:588:VAL:O	1:C:622:HIS:ND1	2.35	0.58
1:C:1655:LEU:O	1:C:1658:SER:OG	2.16	0.58
1:E:543:PRO:HA	1:E:774:ALA:HA	1.84	0.58
1:E:1156:THR:O	1:E:1160:ARG:HG2	2.03	0.58
1:E:1273:ALA:HA	1:E:1276:LEU:HD12	1.86	0.58
1:E:1428:GLN:HE21	1:E:1433:LEU:HD21	1.68	0.58
1:G:1459:CYS:HA	1:G:1462:LEU:HD13	1.86	0.58
1:G:1698:GLY:HA2	1:G:1700:TYR:CE2	2.39	0.58
1:G:1840:TYR:HA	1:G:1843:ARG:HG2	1.86	0.58
1:A:76:VAL:HG23	1:A:1060:PRO:HD2	1.85	0.57
1:A:1554:LEU:O	1:A:1558:LEU:HG	2.03	0.57
1:A:1562:LEU:O	1:A:1565:THR:OG1	2.19	0.57
1:A:1920:THR:HA	1:A:1930:LEU:HD13	1.86	0.57
1:C:1554:LEU:O	1:C:1558:LEU:HG	2.03	0.57
1:E:677:SER:OG	1:E:697:MET:SD	2.59	0.57
1:E:1045:THR:O	1:E:1048:LEU:HG	2.03	0.57
2:F:9:VAL:HG12	2:F:78:PHE:HZ	1.69	0.57
1:G:158:ALA:HB1	1:G:1473:ARG:HB2	1.84	0.57
1:G:509:PHE:HE2	1:G:523:ASP:HB2	1.68	0.57
1:A:774:ALA:O	1:A:777:HIS:NE2	2.36	0.57
1:A:1459:CYS:HA	1:A:1462:LEU:HD13	1.86	0.57
1:A:1565:THR:O	1:A:1569:LYS:HG2	2.03	0.57
1:C:283:LEU:H	1:C:293:SER:HB3	1.68	0.57
1:C:715:SER:OG	1:C:718:HIS:O	2.22	0.57
1:C:997:LEU:O	1:C:1001:LEU:HG	2.04	0.57

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1273:ALA:HA	1:C:1276:LEU:HD12	1.86	0.57
1:C:1562:LEU:O	1:C:1565:THR:OG1	2.19	0.57
2:H:16:LYS:HZ3	2:H:58:THR:H	1.52	0.57
2:H:105:CYS:SG	2:H:108:THR:HB	2.44	0.57
1:A:1045:THR:O	1:A:1048:LEU:HG	2.03	0.57
1:A:1182:PHE:CD1	1:A:1294:ALA:HA	2.39	0.57
1:A:1486:TYR:OH	1:A:1539:ASP:HB2	2.04	0.57
1:C:223:ARG:NH2	1:C:224:ARG:HH12	2.01	0.57
1:E:1161:VAL:O	1:E:1164:LEU:HB2	2.05	0.57
1:E:1272:TRP:O	1:E:1276:LEU:HG	2.03	0.57
1:G:1434:GLN:O	1:G:1437:LEU:HB2	2.05	0.57
2:H:9:VAL:HG12	2:H:78:PHE:HZ	1.69	0.57
1:A:1161:VAL:O	1:A:1164:LEU:HB2	2.05	0.57
1:C:56:PHE:HE2	1:C:1010:ARG:CZ	2.16	0.57
1:C:1023:GLN:O	1:C:1026:THR:OG1	2.19	0.57
1:E:977:LEU:HA	1:E:980:ILE:HD12	1.85	0.57
1:E:1554:LEU:O	1:E:1558:LEU:HG	2.03	0.57
1:E:1585:ILE:O	1:E:1596:ARG:NH1	2.31	0.57
1:G:548:ARG:N	1:G:716:SER:OG	2.31	0.57
1:G:1698:GLY:O	1:G:1746:ARG:NH2	2.36	0.57
1:G:1920:THR:HA	1:G:1930:LEU:HD13	1.86	0.57
1:A:158:ALA:HB1	1:A:1473:ARG:HB2	1.84	0.57
1:A:1015:SER:O	1:A:1018:ARG:HB2	2.05	0.57
1:A:1999:TYR:OH	2:B:66:ARG:O	2.22	0.57
2:B:72:TYR:HB3	2:B:104:HIS:CG	2.40	0.57
1:C:76:VAL:HG23	1:C:1060:PRO:HD2	1.85	0.57
1:C:509:PHE:HE2	1:C:523:ASP:HB2	1.68	0.57
1:C:1434:GLN:O	1:C:1437:LEU:HB2	2.05	0.57
1:C:1840:TYR:HA	1:C:1843:ARG:HG2	1.86	0.57
1:E:511:LEU:N	1:E:529:THR:O	2.38	0.57
1:E:715:SER:OG	1:E:718:HIS:O	2.22	0.57
1:E:1434:GLN:O	1:E:1437:LEU:HB2	2.05	0.57
1:E:1720:TYR:O	1:E:1723:LEU:N	2.38	0.57
1:E:1999:TYR:OH	2:F:69:PRO:HB2	2.04	0.57
1:G:565:GLY:O	1:G:611:LYS:NZ	2.25	0.57
1:G:1428:GLN:HE21	1:G:1433:LEU:HD21	1.68	0.57
2:H:72:TYR:HB3	2:H:104:HIS:CG	2.40	0.57
1:A:226:HIS:ND1	1:A:226:HIS:O	2.36	0.57
1:A:715:SER:OG	1:A:718:HIS:O	2.22	0.57
1:A:997:LEU:O	1:A:1001:LEU:HG	2.04	0.57
1:A:1698:GLY:HA2	1:A:1700:TYR:CE2	2.39	0.57

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:105:CYS:SG	2:D:108:THR:HB	2.44	0.57
1:E:131:SER:O	1:E:135:SER:N	2.38	0.57
1:E:283:LEU:HD12	1:E:338:LEU:HB2	1.85	0.57
1:E:1106:GLN:HE21	1:E:1107:HIS:CE1	2.23	0.57
1:E:1459:CYS:HA	1:E:1462:LEU:HD13	1.86	0.57
1:E:1694:PHE:HB3	1:E:1699:LEU:O	2.04	0.57
1:A:1106:GLN:HE21	1:A:1107:HIS:CE1	2.23	0.57
1:A:1434:GLN:O	1:A:1437:LEU:HB2	2.05	0.57
1:C:989:LEU:O	1:C:993:LEU:HG	2.05	0.57
1:C:1015:SER:O	1:C:1018:ARG:HB2	2.05	0.57
1:E:783:LEU:HD13	1:E:808:MET:HG3	1.87	0.57
1:G:511:LEU:N	1:G:529:THR:O	2.38	0.57
1:G:1015:SER:O	1:G:1018:ARG:HB2	2.05	0.57
1:G:1788:GLU:O	1:G:1792:GLU:HG2	2.05	0.57
2:H:4:ILE:HD13	2:H:176:VAL:HG21	1.85	0.57
1:A:1156:THR:O	1:A:1160:ARG:HG2	2.03	0.57
1:A:1707:TYR:O	1:A:1711:ILE:HG12	2.05	0.57
1:A:1718:ARG:HH12	1:C:1838:VAL:CG1	2.17	0.57
1:A:1788:GLU:O	1:A:1792:GLU:HG2	2.05	0.57
1:C:1182:PHE:CD1	1:C:1294:ALA:HA	2.39	0.57
1:C:1428:GLN:HE21	1:C:1433:LEU:HD21	1.68	0.57
1:C:1476:THR:O	1:C:1480:HIS:ND1	2.26	0.57
1:E:259:GLN:HB2	1:E:329:VAL:HB	1.86	0.57
1:E:1711:ILE:HG22	1:E:1715:GLU:OE1	2.05	0.57
1:G:1992:ILE:HG21	1:G:2000:HIS:HB2	1.86	0.57
1:A:223:ARG:NH2	1:A:224:ARG:HH12	2.01	0.57
1:A:989:LEU:O	1:A:993:LEU:HG	2.05	0.57
1:A:1168:LEU:HD23	1:A:1171:ILE:HD12	1.86	0.57
2:B:45:MET:HE2	2:B:48:GLY:H	1.70	0.57
2:B:69:PRO:HA	2:B:72:TYR:CG	2.40	0.57
1:C:938:MET:HE1	1:C:942:MET:HE3	1.85	0.57
1:C:1143:LEU:HD13	1:C:1146:HIS:CD2	2.40	0.57
1:C:1648:GLN:OE1	1:C:1652:SER:HA	2.05	0.57
1:C:1694:PHE:HB3	1:C:1699:LEU:O	2.04	0.57
1:C:1920:THR:HA	1:C:1930:LEU:HD13	1.87	0.57
2:D:72:TYR:HB3	2:D:104:HIS:CG	2.40	0.57
1:G:1027:ARG:CZ	1:G:1037:LEU:HD22	2.35	0.57
1:G:1720:TYR:O	1:G:1723:LEU:N	2.38	0.57
2:H:69:PRO:HA	2:H:72:TYR:CG	2.40	0.57
1:A:1600:LEU:HD22	1:A:1623:ALA:HB2	1.87	0.57
1:A:1992:ILE:HG21	1:A:2000:HIS:HB2	1.86	0.57

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:977:LEU:HA	1:C:980:ILE:HD12	1.85	0.57
1:C:1707:TYR:O	1:C:1711:ILE:HG12	2.05	0.57
2:D:9:VAL:HG12	2:D:78:PHE:HZ	1.69	0.57
1:E:127:TYR:HB3	1:E:130:LEU:HD13	1.86	0.57
1:E:1043:GLU:HG2	1:E:1046:ARG:NH2	2.20	0.57
1:E:1182:PHE:CD1	1:E:1294:ALA:HA	2.39	0.57
1:E:1698:GLY:HA2	1:E:1700:TYR:CE2	2.39	0.57
1:G:1707:TYR:O	1:G:1711:ILE:HG12	2.05	0.57
1:G:1711:ILE:HG22	1:G:1715:GLU:OE1	2.05	0.57
1:A:1857:THR:HG21	1:A:1864:GLY:HA3	1.87	0.56
1:C:1711:ILE:HG22	1:C:1715:GLU:OE1	2.05	0.56
1:C:1998:GLU:O	1:C:2001:ARG:HD3	2.05	0.56
1:E:1600:LEU:HD22	1:E:1623:ALA:HB2	1.87	0.56
1:G:1182:PHE:CD1	1:G:1294:ALA:HA	2.39	0.56
1:G:1267:ALA:HA	1:G:1270:GLN:CD	2.30	0.56
1:A:131:SER:O	1:A:135:SER:N	2.38	0.56
1:A:565:GLY:O	1:A:611:LYS:NZ	2.25	0.56
1:C:284:TYR:CD2	1:C:291:LYS:HA	2.40	0.56
1:C:569:ASN:ND2	1:C:642:CYS:SG	2.78	0.56
1:C:792:ILE:HD11	1:C:903:LEU:HD21	1.88	0.56
1:E:223:ARG:NH2	1:E:224:ARG:HH12	2.01	0.56
1:E:1015:SER:O	1:E:1018:ARG:HB2	2.05	0.56
1:E:1027:ARG:CZ	1:E:1037:LEU:HD22	2.35	0.56
1:E:1549:GLU:OE2	1:E:1549:GLU:N	2.33	0.56
1:E:1648:GLN:OE1	1:E:1652:SER:HA	2.05	0.56
1:E:1862:ALA:O	1:E:1869:GLN:NE2	2.39	0.56
2:F:45:MET:HE2	2:F:48:GLY:H	1.70	0.56
1:G:83:LEU:HD23	1:G:125:ARG:HG2	1.87	0.56
1:G:131:SER:O	1:G:135:SER:N	2.38	0.56
1:G:989:LEU:O	1:G:993:LEU:HG	2.05	0.56
1:G:997:LEU:O	1:G:1001:LEU:HG	2.04	0.56
1:G:1862:ALA:O	1:G:1869:GLN:NE2	2.39	0.56
1:G:1998:GLU:O	1:G:2001:ARG:HD3	2.05	0.56
1:A:150:PRO:HG3	1:A:226:HIS:CE1	2.40	0.56
1:A:259:GLN:HB2	1:A:329:VAL:HB	1.86	0.56
1:A:569:ASN:ND2	1:A:642:CYS:SG	2.78	0.56
1:A:1027:ARG:CZ	1:A:1037:LEU:HD22	2.35	0.56
1:A:1043:GLU:HG2	1:A:1046:ARG:NH2	2.20	0.56
1:A:1143:LEU:HD13	1:A:1146:HIS:CD2	2.40	0.56
1:A:1720:TYR:O	1:A:1723:LEU:N	2.38	0.56
1:C:1027:ARG:CZ	1:C:1037:LEU:HD22	2.35	0.56

*Continued on next page...*



*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1267:ALA:HA	1:C:1270:GLN:CD	2.30	0.56
1:C:1516:THR:O	1:C:1518:GLN:NE2	2.39	0.56
1:E:965:LEU:HA	1:E:968:ILE:HD12	1.86	0.56
1:E:1143:LEU:HD13	1:E:1146:HIS:CD2	2.40	0.56
1:E:1168:LEU:HD23	1:E:1171:ILE:HD12	1.86	0.56
1:E:1676:LYS:HG3	1:E:1677:HIS:H	1.70	0.56
1:E:1920:THR:HA	1:E:1930:LEU:HD13	1.87	0.56
1:E:1992:ILE:HG21	1:E:2000:HIS:HB2	1.86	0.56
1:G:569:ASN:ND2	1:G:642:CYS:SG	2.78	0.56
1:G:1161:VAL:O	1:G:1164:LEU:HB2	2.05	0.56
1:G:1273:ALA:HA	1:G:1276:LEU:HD12	1.86	0.56
2:H:45:MET:HE2	2:H:48:GLY:H	1.70	0.56
2:H:87:PRO:HG2	2:H:134:LEU:HD21	1.87	0.56
1:A:656:PHE:O	1:A:677:SER:HB3	2.05	0.56
1:A:1273:ALA:HA	1:A:1276:LEU:HD12	1.86	0.56
1:A:1648:GLN:OE1	1:A:1652:SER:HA	2.05	0.56
1:A:1902:VAL:O	1:A:1906:ILE:HG12	2.06	0.56
1:C:1435:HIS:O	1:C:1439:THR:HG23	2.06	0.56
1:C:1459:CYS:HA	1:C:1462:LEU:HD13	1.86	0.56
1:E:1788:GLU:O	1:E:1792:GLU:HG2	2.05	0.56
1:E:1902:VAL:O	1:E:1906:ILE:HG12	2.06	0.56
2:F:72:TYR:HB3	2:F:104:HIS:CG	2.40	0.56
1:G:1143:LEU:HD13	1:G:1146:HIS:CD2	2.40	0.56
1:G:1168:LEU:HD23	1:G:1171:ILE:HD12	1.86	0.56
1:G:1600:LEU:HD22	1:G:1623:ALA:HB2	1.87	0.56
1:G:1648:GLN:OE1	1:G:1652:SER:HA	2.05	0.56
1:A:1711:ILE:HG22	1:A:1715:GLU:OE1	2.05	0.56
1:A:1718:ARG:HH12	1:C:1838:VAL:HG12	1.70	0.56
1:C:783:LEU:HD13	1:C:808:MET:HG3	1.87	0.56
1:C:1106:GLN:HE21	1:C:1107:HIS:CE1	2.23	0.56
1:E:1396:LEU:HA	1:E:1399:ILE:HD12	1.88	0.56
1:G:127:TYR:HB3	1:G:130:LEU:HD13	1.86	0.56
2:B:87:PRO:HG2	2:B:134:LEU:HD21	1.88	0.56
1:C:45:VAL:HB	1:C:1104:ARG:NH1	2.21	0.56
1:C:511:LEU:N	1:C:529:THR:O	2.38	0.56
2:D:69:PRO:HA	2:D:72:TYR:CG	2.40	0.56
2:D:87:PRO:HG2	2:D:134:LEU:HD21	1.88	0.56
1:E:588:VAL:O	1:E:622:HIS:ND1	2.35	0.56
1:G:45:VAL:HB	1:G:1104:ARG:NH1	2.21	0.56
1:G:783:LEU:HD13	1:G:808:MET:HG3	1.87	0.56
1:G:1435:HIS:O	1:G:1439:THR:HG23	2.06	0.56

*Continued on next page...*



*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1618:GLN:HE22	1:G:1883:PRO:C	2.10	0.56
1:A:1840:TYR:HA	1:A:1843:ARG:HG2	1.86	0.56
1:C:656:PHE:O	1:C:677:SER:HB3	2.05	0.56
1:C:1676:LYS:HG3	1:C:1677:HIS:H	1.70	0.56
1:C:1788:GLU:O	1:C:1792:GLU:HG2	2.05	0.56
1:E:569:ASN:ND2	1:E:642:CYS:SG	2.78	0.56
1:E:1403:VAL:HG13	1:E:1409:ARG:HD3	1.88	0.56
1:E:1707:TYR:O	1:E:1711:ILE:HG12	2.05	0.56
1:G:715:SER:OG	1:G:718:HIS:O	2.22	0.56
1:G:1106:GLN:HE21	1:G:1107:HIS:CE1	2.23	0.56
1:G:1595:LEU:HD12	1:G:1599:TRP:HE1	1.71	0.56
1:A:284:TYR:CD2	1:A:291:LYS:HA	2.41	0.56
1:A:836:VAL:HA	1:A:840:PHE:HB2	1.88	0.56
1:A:1267:ALA:HA	1:A:1270:GLN:CD	2.30	0.56
1:C:407:SER:HA	1:E:403:ASN:HA	1.88	0.56
1:C:408:ALA:HB3	1:C:449:PHE:HB2	1.88	0.56
1:C:1588:GLY:N	1:C:1596:ARG:HH22	2.04	0.56
1:C:2002:GLU:OE1	1:C:2006:ASN:ND2	2.39	0.56
1:E:1998:GLU:O	1:E:2001:ARG:HD3	2.05	0.56
2:F:69:PRO:HA	2:F:72:TYR:CG	2.40	0.56
1:G:2002:GLU:OE1	1:G:2006:ASN:ND2	2.39	0.56
1:A:1892:CYS:SG	1:A:1893:HIS:ND1	2.79	0.56
1:C:774:ALA:O	1:C:777:HIS:NE2	2.36	0.56
1:C:1595:LEU:HD12	1:C:1599:TRP:HE1	1.71	0.56
1:C:1720:TYR:O	1:C:1723:LEU:N	2.38	0.56
1:E:1435:HIS:O	1:E:1439:THR:HG23	2.06	0.56
1:G:231:LEU:HB3	1:G:1259:TRP:CD1	2.41	0.56
1:G:1857:THR:HG21	1:G:1864:GLY:HA3	1.87	0.56
1:A:1023:GLN:O	1:A:1026:THR:OG1	2.19	0.56
1:A:1396:LEU:HA	1:A:1399:ILE:HD12	1.88	0.56
1:A:1435:HIS:O	1:A:1439:THR:HG23	2.06	0.56
1:A:1676:LYS:HG3	1:A:1677:HIS:H	1.70	0.56
1:C:231:LEU:HB3	1:C:1259:TRP:CD1	2.41	0.56
1:C:383:PHE:O	1:C:387:LEU:HB2	2.06	0.56
1:C:1161:VAL:O	1:C:1164:LEU:HB2	2.05	0.56
1:C:1992:ILE:HG21	1:C:2000:HIS:HB2	1.87	0.56
1:E:1023:GLN:O	1:E:1026:THR:OG1	2.19	0.56
1:E:1267:ALA:HA	1:E:1270:GLN:CD	2.30	0.56
1:E:1727:HIS:HE1	1:G:1731:GLN:CG	2.19	0.56
1:E:1824:TYR:HE1	2:F:27:ALA:HA	1.71	0.56
1:G:656:PHE:O	1:G:677:SER:HB3	2.05	0.56

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:792:ILE:HD11	1:G:903:LEU:HD21	1.88	0.56
1:G:836:VAL:HA	1:G:840:PHE:HB2	1.88	0.56
1:G:1516:THR:O	1:G:1518:GLN:NE2	2.39	0.56
1:A:84:GLU:HB3	1:A:124:HIS:HB3	1.89	0.55
1:A:548:ARG:N	1:A:716:SER:OG	2.31	0.55
1:A:783:LEU:HD13	1:A:808:MET:HG3	1.87	0.55
1:A:1560:MET:O	1:A:1563:THR:OG1	2.22	0.55
1:C:335:ASP:OD1	1:C:480:ARG:NH1	2.40	0.55
1:C:1698:GLY:O	1:C:1746:ARG:NH2	2.36	0.55
1:C:1862:ALA:O	1:C:1869:GLN:NE2	2.39	0.55
1:E:656:PHE:O	1:E:677:SER:HB3	2.05	0.55
1:E:989:LEU:O	1:E:993:LEU:HG	2.05	0.55
2:F:78:PHE:HB3	2:F:110:ILE:HG12	1.89	0.55
1:G:284:TYR:CD2	1:G:291:LYS:HA	2.40	0.55
1:G:383:PHE:O	1:G:387:LEU:HB2	2.06	0.55
1:G:1043:GLU:HG2	1:G:1046:ARG:NH2	2.20	0.55
1:A:1425:GLY:HA2	1:A:1469:HIS:NE2	2.22	0.55
1:A:1502:VAL:O	1:A:1506:VAL:HG23	2.06	0.55
1:A:1998:GLU:O	1:A:2001:ARG:HD3	2.05	0.55
1:A:2002:GLU:OE1	1:A:2006:ASN:ND2	2.39	0.55
1:C:131:SER:O	1:C:135:SER:N	2.38	0.55
1:C:836:VAL:HA	1:C:840:PHE:HB2	1.88	0.55
1:C:1043:GLU:HG2	1:C:1046:ARG:NH2	2.20	0.55
1:C:1502:VAL:O	1:C:1506:VAL:HG23	2.06	0.55
1:C:1600:LEU:HD22	1:C:1623:ALA:HB2	1.87	0.55
1:E:284:TYR:CD2	1:E:291:LYS:HA	2.40	0.55
1:E:792:ILE:HD11	1:E:903:LEU:HD21	1.88	0.55
1:E:836:VAL:HA	1:E:840:PHE:HB2	1.88	0.55
1:E:1502:VAL:O	1:E:1506:VAL:HG23	2.06	0.55
1:E:1588:GLY:N	1:E:1596:ARG:HH22	2.04	0.55
1:E:2002:GLU:OE1	1:E:2006:ASN:ND2	2.39	0.55
2:F:87:PRO:HG2	2:F:134:LEU:HD21	1.88	0.55
1:A:1563:THR:O	1:A:1567:LYS:HG2	2.06	0.55
1:A:1862:ALA:O	1:A:1869:GLN:NE2	2.39	0.55
1:G:605:PRO:HD2	1:G:617:GLU:HB2	1.89	0.55
1:G:956:ARG:NH1	1:G:1007:LEU:O	2.39	0.55
1:G:1396:LEU:HA	1:G:1399:ILE:HD12	1.88	0.55
1:A:124:HIS:CE1	1:A:126:ARG:HA	2.42	0.55
1:A:231:LEU:HB3	1:A:1259:TRP:CD1	2.41	0.55
1:A:946:LEU:HD12	1:A:959:ARG:NH2	2.21	0.55
1:A:1585:ILE:O	1:A:1596:ARG:NH1	2.31	0.55

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:638:TYR:HD1	1:C:651:GLU:HB2	1.72	0.55
2:D:45:MET:HE2	2:D:48:GLY:H	1.70	0.55
1:E:150:PRO:HG3	1:E:226:HIS:CE1	2.40	0.55
1:E:335:ASP:OD1	1:E:480:ARG:NH1	2.40	0.55
1:E:1560:MET:O	1:E:1563:THR:OG1	2.22	0.55
1:E:1840:TYR:HA	1:E:1843:ARG:HG2	1.86	0.55
1:G:56:PHE:HB2	1:G:1014:PHE:CE2	2.41	0.55
1:G:1563:THR:O	1:G:1567:LYS:HG2	2.07	0.55
1:A:408:ALA:HB3	1:A:449:PHE:HB2	1.88	0.55
1:A:792:ILE:HD11	1:A:903:LEU:HD21	1.88	0.55
1:A:1403:VAL:HG13	1:A:1409:ARG:HD3	1.88	0.55
2:B:7:VAL:HA	2:B:56:TRP:HB2	1.89	0.55
1:C:124:HIS:CE1	1:C:126:ARG:HA	2.41	0.55
1:C:331:TYR:CD2	1:C:537:ALA:HB3	2.42	0.55
1:C:605:PRO:HD2	1:C:617:GLU:HB2	1.89	0.55
2:D:2:GLN:NE2	2:D:3:ALA:O	2.40	0.55
1:E:599:THR:HG22	1:E:601:GLU:H	1.71	0.55
1:E:972:VAL:HA	1:E:975:VAL:HG22	1.89	0.55
1:E:1555:MET:O	1:E:1559:HIS:ND1	2.39	0.55
1:E:1595:LEU:HD12	1:E:1599:TRP:HE1	1.71	0.55
1:E:1615:GLU:HB2	1:E:1885:ILE:HA	1.89	0.55
1:E:1720:TYR:O	1:E:1723:LEU:HB2	2.07	0.55
1:G:1403:VAL:HG13	1:G:1409:ARG:HD3	1.88	0.55
1:G:1502:VAL:O	1:G:1506:VAL:HG23	2.06	0.55
1:G:1503:LYS:HD2	1:G:1554:LEU:CD1	2.36	0.55
1:A:83:LEU:HD23	1:A:125:ARG:HG2	1.87	0.55
1:A:1595:LEU:HD12	1:A:1599:TRP:HE1	1.71	0.55
1:A:1720:TYR:O	1:A:1723:LEU:HB2	2.07	0.55
1:A:1878:THR:OG1	1:A:1880:HIS:O	2.24	0.55
2:B:78:PHE:HB3	2:B:110:ILE:HG12	1.89	0.55
1:C:83:LEU:HD23	1:C:125:ARG:HG2	1.87	0.55
1:C:972:VAL:HA	1:C:975:VAL:HG22	1.89	0.55
1:C:1058:ASN:HB3	1:C:1107:HIS:HB3	1.89	0.55
1:C:1396:LEU:HA	1:C:1399:ILE:HD12	1.88	0.55
1:C:1503:LYS:HD2	1:C:1554:LEU:CD1	2.36	0.55
1:C:1909:MET:CE	1:C:1974:PHE:HA	2.34	0.55
1:E:408:ALA:HB3	1:E:449:PHE:HB2	1.88	0.55
1:E:638:TYR:HD1	1:E:651:GLU:HB2	1.72	0.55
1:E:774:ALA:O	1:E:777:HIS:NE2	2.36	0.55
1:E:1425:GLY:HA2	1:E:1469:HIS:NE2	2.22	0.55
1:E:1857:THR:HG21	1:E:1864:GLY:HA3	1.88	0.55

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1871:LYS:HB3	1:E:1899:LEU:HB2	1.89	0.55
1:G:331:TYR:CD2	1:G:537:ALA:HB3	2.42	0.55
1:G:1170:SER:HA	1:G:1173:ARG:HG2	1.89	0.55
1:G:1928:LYS:O	1:G:1932:MET:HB2	2.07	0.55
2:H:78:PHE:HB3	2:H:110:ILE:HG12	1.89	0.55
1:A:1503:LYS:HD2	1:A:1554:LEU:CD1	2.36	0.55
1:A:1928:LYS:O	1:A:1932:MET:HB2	2.07	0.55
1:C:568:ARG:HD2	1:C:609:HIS:HD2	1.72	0.55
1:E:145:ARG:CZ	1:E:230:ALA:HB3	2.37	0.55
1:E:231:LEU:HB3	1:E:1259:TRP:CD1	2.41	0.55
1:E:956:ARG:NH1	1:E:1007:LEU:O	2.39	0.55
1:E:1170:SER:HA	1:E:1173:ARG:HG2	1.89	0.55
1:E:1416:VAL:O	1:E:1420:VAL:HG23	2.07	0.55
1:E:1563:THR:O	1:E:1567:LYS:HG2	2.07	0.55
1:G:84:GLU:HB3	1:G:124:HIS:HB3	1.89	0.55
1:G:335:ASP:OD1	1:G:480:ARG:NH1	2.40	0.55
1:G:408:ALA:HB3	1:G:449:PHE:HB2	1.88	0.55
1:G:1555:MET:O	1:G:1559:HIS:ND1	2.39	0.55
1:A:56:PHE:HB2	1:A:1014:PHE:CE2	2.41	0.55
1:A:568:ARG:HD2	1:A:609:HIS:HD2	1.72	0.55
1:A:1416:VAL:O	1:A:1420:VAL:HG23	2.07	0.55
1:A:1588:GLY:N	1:A:1596:ARG:HH22	2.04	0.55
1:A:1871:LYS:HB3	1:A:1899:LEU:HB2	1.89	0.55
1:C:145:ARG:CZ	1:C:230:ALA:HB3	2.37	0.55
1:C:956:ARG:NH1	1:C:1007:LEU:O	2.39	0.55
1:C:1618:GLN:HE22	1:C:1883:PRO:C	2.10	0.55
1:E:946:LEU:HD12	1:E:959:ARG:NH2	2.21	0.55
1:G:1162:ALA:O	1:G:1165:TYR:N	2.40	0.55
1:A:508:HIS:HA	1:A:520:PRO:HG2	1.89	0.55
1:A:677:SER:OG	1:A:697:MET:SD	2.59	0.55
1:A:933:PHE:HA	1:A:936:GLN:NE2	2.22	0.55
1:A:1555:MET:O	1:A:1559:HIS:ND1	2.39	0.55
2:B:2:GLN:NE2	2:B:3:ALA:O	2.40	0.55
1:C:946:LEU:HD12	1:C:959:ARG:NH2	2.21	0.55
1:E:45:VAL:HB	1:E:1104:ARG:NH1	2.21	0.55
1:E:1058:ASN:HB3	1:E:1107:HIS:HB3	1.89	0.55
1:E:1162:ALA:O	1:E:1165:TYR:N	2.39	0.55
1:E:1503:LYS:HD2	1:E:1554:LEU:CD1	2.36	0.55
1:G:638:TYR:HD1	1:G:651:GLU:HB2	1.72	0.55
1:G:1549:GLU:OE2	1:G:1549:GLU:N	2.33	0.55
1:G:1676:LYS:HG3	1:G:1677:HIS:H	1.70	0.55

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1967:HIS:O	1:A:1971:ARG:HD3	2.07	0.55
1:C:150:PRO:HG3	1:C:226:HIS:CE1	2.40	0.55
1:C:508:HIS:HA	1:C:520:PRO:HG2	1.89	0.55
1:C:1425:GLY:HA2	1:C:1469:HIS:NE2	2.22	0.55
1:C:1560:MET:O	1:C:1563:THR:OG1	2.22	0.55
1:C:1615:GLU:HB2	1:C:1885:ILE:HA	1.89	0.55
1:E:83:LEU:HD23	1:E:125:ARG:HG2	1.88	0.55
1:E:1700:TYR:CD2	1:E:1737:ILE:HD11	2.42	0.55
1:E:1942:VAL:HG22	2:F:59:ALA:HA	1.89	0.55
1:G:568:ARG:HD2	1:G:609:HIS:HD2	1.72	0.55
1:G:1058:ASN:HB3	1:G:1107:HIS:HB3	1.89	0.55
1:G:1292:LEU:HD21	1:G:1392:VAL:HG21	1.89	0.55
1:G:1902:VAL:O	1:G:1906:ILE:HG12	2.06	0.55
2:H:153:LYS:NZ	2:H:154:TYR:O	2.40	0.55
1:A:335:ASP:OD1	1:A:480:ARG:NH1	2.40	0.54
1:A:343:GLU:OE1	1:A:616:TYR:OH	2.25	0.54
1:A:383:PHE:O	1:A:387:LEU:HB2	2.06	0.54
1:A:638:TYR:HD1	1:A:651:GLU:HB2	1.72	0.54
1:C:1549:GLU:OE2	1:C:1549:GLU:N	2.33	0.54
1:C:1555:MET:O	1:C:1559:HIS:ND1	2.39	0.54
1:E:121:VAL:HG21	1:E:841:ARG:HG2	1.89	0.54
1:E:124:HIS:CE1	1:E:126:ARG:HA	2.41	0.54
1:E:128:GLN:HB3	1:E:134:TYR:CD1	2.43	0.54
1:E:214:ASP:OD2	1:E:215:VAL:N	2.40	0.54
1:E:1516:THR:O	1:E:1518:GLN:NE2	2.39	0.54
1:G:145:ARG:CZ	1:G:230:ALA:HB3	2.37	0.54
1:G:1967:HIS:O	1:G:1971:ARG:HD3	2.07	0.54
2:B:153:LYS:NZ	2:B:154:TYR:O	2.40	0.54
1:C:214:ASP:OD2	1:C:215:VAL:N	2.40	0.54
1:C:1170:SER:HA	1:C:1173:ARG:HG2	1.89	0.54
1:C:1878:THR:OG1	1:C:1880:HIS:O	2.24	0.54
1:E:84:GLU:HB3	1:E:124:HIS:HB3	1.89	0.54
1:E:568:ARG:HD2	1:E:609:HIS:HD2	1.72	0.54
1:E:605:PRO:HD2	1:E:617:GLU:HB2	1.89	0.54
1:E:933:PHE:HA	1:E:936:GLN:NE2	2.22	0.54
1:G:277:ILE:HG21	1:G:342:LEU:HD23	1.89	0.54
1:G:508:HIS:HA	1:G:520:PRO:HG2	1.89	0.54
1:G:946:LEU:HD12	1:G:959:ARG:NH2	2.21	0.54
1:A:128:GLN:HB3	1:A:134:TYR:CD1	2.43	0.54
1:A:331:TYR:CD2	1:A:537:ALA:HB3	2.42	0.54
1:A:511:LEU:N	1:A:529:THR:O	2.38	0.54

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:956:ARG:NH1	1:A:1007:LEU:O	2.39	0.54
1:C:152:GLN:HE21	1:C:1382:GLY:HA3	1.73	0.54
1:C:1563:THR:O	1:C:1567:LYS:HG2	2.07	0.54
1:C:1700:TYR:CD2	1:C:1737:ILE:HD11	2.42	0.54
1:C:1902:VAL:O	1:C:1906:ILE:HG12	2.06	0.54
2:D:78:PHE:HB3	2:D:110:ILE:HG12	1.89	0.54
1:E:508:HIS:HA	1:E:520:PRO:HG2	1.89	0.54
1:E:1928:LYS:O	1:E:1932:MET:HB2	2.07	0.54
1:E:1967:HIS:O	1:E:1971:ARG:HD3	2.07	0.54
1:G:214:ASP:OD2	1:G:215:VAL:N	2.40	0.54
1:G:1588:GLY:N	1:G:1596:ARG:HH22	2.04	0.54
1:G:1695:THR:HA	1:G:1700:TYR:CE1	2.43	0.54
1:A:214:ASP:OD2	1:A:215:VAL:N	2.40	0.54
1:A:1170:SER:HA	1:A:1173:ARG:NE	2.23	0.54
1:A:1516:THR:O	1:A:1518:GLN:NE2	2.39	0.54
1:C:1403:VAL:HG13	1:C:1409:ARG:HD3	1.88	0.54
1:C:1617:ALA:HB3	1:C:1694:PHE:CE1	2.43	0.54
1:C:1871:LYS:HB3	1:C:1899:LEU:HB2	1.89	0.54
1:E:467:LEU:HG	1:E:472:LEU:HD13	1.89	0.54
2:F:7:VAL:HA	2:F:56:TRP:HB2	1.89	0.54
2:F:132:LYS:HZ2	2:F:134:LEU:HD13	1.72	0.54
1:G:124:HIS:CE1	1:G:126:ARG:HA	2.41	0.54
1:G:467:LEU:HG	1:G:472:LEU:HD13	1.89	0.54
1:G:1416:VAL:O	1:G:1420:VAL:HG23	2.07	0.54
1:G:1824:TYR:CE1	2:H:27:ALA:HA	2.34	0.54
2:H:29:PRO:HG3	2:H:159:ALA:O	2.08	0.54
1:A:152:GLN:HE21	1:A:1382:GLY:HA3	1.73	0.54
1:A:1170:SER:HA	1:A:1173:ARG:HG2	1.89	0.54
1:C:467:LEU:HG	1:C:472:LEU:HD13	1.89	0.54
1:C:933:PHE:HA	1:C:936:GLN:NE2	2.22	0.54
1:C:1967:HIS:O	1:C:1971:ARG:HD3	2.07	0.54
2:D:29:PRO:HG3	2:D:159:ALA:O	2.07	0.54
2:D:153:LYS:NZ	2:D:154:TYR:O	2.40	0.54
1:E:1152:TYR:O	1:E:1158:LYS:HE3	2.08	0.54
1:G:1170:SER:HA	1:G:1173:ARG:NE	2.23	0.54
1:G:1871:LYS:HB3	1:G:1899:LEU:HB2	1.89	0.54
2:H:2:GLN:NE2	2:H:3:ALA:O	2.40	0.54
1:A:45:VAL:HB	1:A:1104:ARG:NH1	2.21	0.54
1:A:577:MET:HE1	1:A:634:LEU:HB2	1.90	0.54
1:A:972:VAL:HA	1:A:975:VAL:HG22	1.89	0.54
1:A:1851:LEU:HD11	1:A:1873:LYS:HD2	1.90	0.54

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:56:PHE:HB2	1:C:1014:PHE:CE2	2.41	0.54
1:C:84:GLU:HB3	1:C:124:HIS:HB3	1.89	0.54
1:C:964:PHE:CE2	1:C:968:ILE:HD11	2.43	0.54
1:C:1170:SER:HA	1:C:1173:ARG:NE	2.22	0.54
2:D:7:VAL:HA	2:D:56:TRP:HB2	1.89	0.54
1:E:115:MET:HE3	1:E:778:HIS:NE2	2.23	0.54
1:E:331:TYR:CD2	1:E:537:ALA:HB3	2.42	0.54
2:F:2:GLN:NE2	2:F:3:ALA:O	2.40	0.54
1:G:63:ARG:NH1	1:G:1062:CYS:SG	2.79	0.54
2:H:8:VAL:O	2:H:16:LYS:NZ	2.41	0.54
1:A:146:GLN:NE2	1:A:234:LEU:HA	2.23	0.54
1:A:277:ILE:HG21	1:A:342:LEU:HD23	1.89	0.54
1:A:933:PHE:O	1:A:936:GLN:HG2	2.08	0.54
1:A:1615:GLU:HB2	1:A:1885:ILE:HA	1.89	0.54
1:A:2012:GLU:HA	1:A:2015:GLN:OE1	2.08	0.54
1:C:115:MET:HE3	1:C:778:HIS:NE2	2.23	0.54
1:C:577:MET:HE1	1:C:634:LEU:HB2	1.90	0.54
1:C:599:THR:HG22	1:C:601:GLU:H	1.71	0.54
1:C:1857:THR:HG21	1:C:1864:GLY:HA3	1.88	0.54
1:E:277:ILE:HG21	1:E:342:LEU:HD23	1.89	0.54
1:E:1909:MET:CE	1:E:1974:PHE:HA	2.34	0.54
1:G:933:PHE:O	1:G:936:GLN:HG2	2.08	0.54
1:G:1720:TYR:O	1:G:1723:LEU:HB2	2.07	0.54
2:H:84:LEU:HD13	2:H:120:ARG:NE	2.20	0.54
1:A:63:ARG:NH1	1:A:1062:CYS:SG	2.79	0.54
1:A:996:SER:HA	1:A:999:PHE:CD2	2.43	0.54
1:A:1695:THR:HA	1:A:1700:TYR:CE1	2.43	0.54
2:B:29:PRO:HG3	2:B:159:ALA:O	2.07	0.54
1:C:121:VAL:HG21	1:C:841:ARG:HG2	1.89	0.54
1:C:128:GLN:HB3	1:C:134:TYR:CD1	2.42	0.54
1:C:1481:ALA:O	1:C:1485:LEU:HG	2.08	0.54
1:C:1695:THR:HA	1:C:1700:TYR:CE1	2.43	0.54
1:C:1720:TYR:O	1:C:1723:LEU:HB2	2.07	0.54
1:C:1928:LYS:O	1:C:1932:MET:HB2	2.07	0.54
1:E:1043:GLU:HA	1:E:1046:ARG:HG3	1.90	0.54
1:E:1476:THR:O	1:E:1480:HIS:ND1	2.26	0.54
1:E:1962:LYS:O	1:E:1966:HIS:ND1	2.41	0.54
1:G:120:TRP:CE3	1:G:838:TYR:HB3	2.43	0.54
1:G:1425:GLY:HA2	1:G:1469:HIS:NE2	2.21	0.54
1:G:1851:LEU:HD11	1:G:1873:LYS:HD2	1.90	0.54
1:A:467:LEU:HG	1:A:472:LEU:HD13	1.89	0.54

*Continued on next page...*



*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:980:ILE:HG22	1:A:1027:ARG:NE	2.18	0.54
1:A:1700:TYR:CD2	1:A:1737:ILE:HD11	2.42	0.54
1:C:120:TRP:CE3	1:C:838:TYR:HB3	2.43	0.54
1:C:146:GLN:NE2	1:C:234:LEU:HA	2.23	0.54
1:C:204:PRO:O	1:C:207:LEU:HG	2.08	0.54
1:E:383:PHE:O	1:E:387:LEU:HB2	2.06	0.54
1:E:964:PHE:CE2	1:E:968:ILE:HD11	2.43	0.54
1:E:1481:ALA:O	1:E:1485:LEU:HG	2.08	0.54
2:F:29:PRO:HG3	2:F:159:ALA:O	2.08	0.54
1:G:557:SER:HA	1:G:614:GLU:HA	1.90	0.54
1:G:1043:GLU:HA	1:G:1046:ARG:HG3	1.90	0.54
1:G:1423:SER:O	1:G:1426:SER:OG	2.26	0.54
1:A:599:THR:HG22	1:A:601:GLU:H	1.71	0.54
1:A:605:PRO:HD2	1:A:617:GLU:HB2	1.89	0.54
1:A:1292:LEU:HD21	1:A:1392:VAL:HG21	1.89	0.54
1:C:1043:GLU:HA	1:C:1046:ARG:HG3	1.90	0.54
2:D:84:LEU:HD13	2:D:120:ARG:NE	2.20	0.54
1:E:577:MET:HE1	1:E:634:LEU:HB2	1.90	0.54
1:E:1727:HIS:CE1	1:G:1731:GLN:CG	2.90	0.54
2:F:153:LYS:NZ	2:F:154:TYR:O	2.41	0.54
1:G:964:PHE:CE2	1:G:968:ILE:HD11	2.43	0.54
1:G:972:VAL:HA	1:G:975:VAL:HG22	1.89	0.54
1:G:1527:ARG:O	1:G:1531:THR:HG23	2.08	0.54
1:G:1615:GLU:HB2	1:G:1885:ILE:HA	1.89	0.54
1:A:121:VAL:HG21	1:A:841:ARG:HG2	1.89	0.53
1:A:229:PRO:O	1:A:1262:LYS:NZ	2.26	0.53
1:A:1369:LYS:HB3	1:A:1374:MET:SD	2.49	0.53
1:A:1423:SER:O	1:A:1426:SER:OG	2.26	0.53
1:A:1527:ARG:O	1:A:1531:THR:HG23	2.08	0.53
1:C:407:SER:O	1:E:403:ASN:HB3	2.08	0.53
1:C:1963:LEU:O	1:C:1967:HIS:ND1	2.28	0.53
1:E:152:GLN:HE21	1:E:1382:GLY:HA3	1.73	0.53
1:E:204:PRO:O	1:E:207:LEU:HG	2.08	0.53
1:E:1942:VAL:CG2	2:F:59:ALA:HA	2.38	0.53
1:G:121:VAL:HG21	1:G:841:ARG:HG2	1.89	0.53
1:G:203:LEU:HB3	1:G:206:LEU:HD13	1.90	0.53
1:G:599:THR:HG22	1:G:601:GLU:H	1.71	0.53
1:G:1863:HIS:CD2	2:H:34:PRO:HB3	2.43	0.53
1:A:93:ARG:NH2	1:A:507:PRO:HD2	2.23	0.53
1:A:120:TRP:CE3	1:A:838:TYR:HB3	2.43	0.53
1:A:145:ARG:CZ	1:A:230:ALA:HB3	2.37	0.53

*Continued on next page...*



*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1058:ASN:HB3	1:A:1107:HIS:HB3	1.89	0.53
1:A:1549:GLU:OE2	1:A:1549:GLU:N	2.33	0.53
1:A:1617:ALA:HB3	1:A:1694:PHE:CE1	2.43	0.53
1:C:346:LEU:HD22	1:C:606:VAL:HG21	1.90	0.53
1:C:1499:PHE:O	1:C:1503:LYS:N	2.32	0.53
1:C:1510:LEU:O	1:C:1514:VAL:HG22	2.08	0.53
1:E:120:TRP:CE3	1:E:838:TYR:HB3	2.43	0.53
1:E:1296:GLU:CD	1:E:1426:SER:HB2	2.33	0.53
1:E:1527:ARG:O	1:E:1531:THR:HG23	2.08	0.53
1:E:1963:LEU:O	1:E:1967:HIS:ND1	2.28	0.53
1:E:1999:TYR:OH	2:F:66:ARG:NH1	2.41	0.53
1:G:128:GLN:HB3	1:G:134:TYR:CD1	2.43	0.53
1:G:634:LEU:HD21	1:G:656:PHE:HD1	1.74	0.53
1:A:1053:HIS:HA	1:A:1055:VAL:HG22	1.91	0.53
1:C:634:LEU:HD21	1:C:656:PHE:HD1	1.74	0.53
1:C:1369:LYS:HB3	1:C:1374:MET:SD	2.49	0.53
1:C:1416:VAL:HG23	1:C:1417:LEU:HD22	1.91	0.53
1:E:334:PRO:O	1:E:400:HIS:NE2	2.41	0.53
1:E:1170:SER:HA	1:E:1173:ARG:NE	2.22	0.53
1:G:146:GLN:NE2	1:G:234:LEU:HA	2.23	0.53
1:G:204:PRO:O	1:G:207:LEU:HG	2.08	0.53
1:G:1416:VAL:HG23	1:G:1417:LEU:HD22	1.90	0.53
2:H:7:VAL:HA	2:H:56:TRP:HB2	1.89	0.53
1:A:115:MET:HE3	1:A:778:HIS:NE2	2.23	0.53
1:A:213:GLU:O	1:A:216:ASP:HB3	2.09	0.53
1:A:1021:TYR:CE1	1:A:1041:ARG:HD2	2.43	0.53
1:A:1151:ARG:HH21	1:A:1152:TYR:HH	1.55	0.53
1:A:1684:VAL:O	1:A:1687:LEU:HG	2.09	0.53
2:B:84:LEU:HD13	2:B:120:ARG:NE	2.20	0.53
1:C:1152:TYR:O	1:C:1158:LYS:HE3	2.08	0.53
1:C:2012:GLU:HA	1:C:2015:GLN:OE1	2.08	0.53
2:D:8:VAL:O	2:D:16:LYS:NZ	2.41	0.53
1:E:1695:THR:HA	1:E:1700:TYR:CE1	2.43	0.53
1:E:1727:HIS:HE1	1:G:1731:GLN:HG3	1.71	0.53
1:G:50:VAL:HG21	1:G:1018:ARG:HA	1.91	0.53
1:G:55:ASP:O	1:G:55:ASP:OD2	2.27	0.53
1:G:933:PHE:HA	1:G:936:GLN:NE2	2.22	0.53
1:G:1700:TYR:CD2	1:G:1737:ILE:HD11	2.42	0.53
2:H:9:VAL:HA	2:H:16:LYS:HZ1	1.74	0.53
1:A:634:LEU:HD21	1:A:656:PHE:HD1	1.74	0.53
1:A:1464:LEU:HD22	1:A:1465:ARG:HD2	1.90	0.53

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1481:ALA:O	1:A:1485:LEU:HG	2.08	0.53
1:C:121:VAL:N	1:C:838:TYR:O	2.42	0.53
1:C:996:SER:HA	1:C:999:PHE:CD2	2.43	0.53
1:C:1021:TYR:CE1	1:C:1041:ARG:HD2	2.44	0.53
1:C:1296:GLU:CD	1:C:1426:SER:HB2	2.33	0.53
1:C:1527:ARG:O	1:C:1531:THR:HG23	2.08	0.53
1:E:933:PHE:O	1:E:936:GLN:HG2	2.08	0.53
1:E:1851:LEU:HD11	1:E:1873:LYS:HD2	1.90	0.53
1:E:1873:LYS:HB2	1:E:1897:THR:OG1	2.08	0.53
2:F:84:LEU:HD13	2:F:120:ARG:NE	2.20	0.53
1:G:346:LEU:HD22	1:G:606:VAL:HG21	1.91	0.53
1:G:728:PHE:O	1:G:732:HIS:ND1	2.42	0.53
1:G:1684:VAL:O	1:G:1687:LEU:HG	2.09	0.53
1:G:1909:MET:CE	1:G:1974:PHE:HA	2.34	0.53
2:H:40:TYR:O	2:H:55:LEU:N	2.41	0.53
1:A:964:PHE:CE2	1:A:968:ILE:HD11	2.43	0.53
1:A:1510:LEU:O	1:A:1514:VAL:HG22	2.09	0.53
1:A:1720:TYR:O	1:C:1738:MET:SD	2.67	0.53
1:C:1292:LEU:HD21	1:C:1392:VAL:HG21	1.89	0.53
1:C:1873:LYS:HB2	1:C:1897:THR:OG1	2.08	0.53
1:E:550:LEU:HD11	1:E:590:PHE:HE1	1.74	0.53
1:E:996:SER:HA	1:E:999:PHE:CD2	2.43	0.53
1:E:1054:TYR:CE2	1:E:1109:LEU:HD13	2.44	0.53
1:E:1749:GLY:HA2	1:E:1774:PRO:C	2.34	0.53
1:G:1296:GLU:CD	1:G:1426:SER:HB2	2.33	0.53
1:G:1510:LEU:O	1:G:1514:VAL:HG22	2.08	0.53
1:G:1875:LEU:HB2	1:G:1895:GLU:HB3	1.91	0.53
1:A:1590:GLN:CD	1:A:1596:ARG:HH21	2.17	0.53
1:A:1727:HIS:NE2	1:C:1734:PHE:HB3	2.23	0.53
1:A:1803:LYS:NZ	2:B:28:PHE:HZ	2.06	0.53
1:C:50:VAL:HG21	1:C:1018:ARG:HA	1.91	0.53
1:C:1416:VAL:O	1:C:1420:VAL:HG23	2.07	0.53
1:C:1851:LEU:HD11	1:C:1873:LYS:HD2	1.90	0.53
1:E:56:PHE:HB2	1:E:1014:PHE:CE2	2.41	0.53
1:E:121:VAL:N	1:E:838:TYR:O	2.42	0.53
1:E:146:GLN:NE2	1:E:234:LEU:HA	2.23	0.53
1:E:1684:VAL:O	1:E:1687:LEU:HG	2.09	0.53
1:G:115:MET:HE3	1:G:778:HIS:NE2	2.23	0.53
1:G:152:GLN:HE21	1:G:1382:GLY:HA3	1.73	0.53
1:G:1053:HIS:HA	1:G:1055:VAL:HG22	1.91	0.53
1:G:1054:TYR:CE2	1:G:1109:LEU:HD13	2.44	0.53

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1152:TYR:O	1:G:1158:LYS:HE3	2.08	0.53
1:G:1481:ALA:O	1:G:1485:LEU:HG	2.08	0.53
1:G:1521:SER:OG	1:G:1524:HIS:ND1	2.20	0.53
1:G:1560:MET:O	1:G:1563:THR:OG1	2.22	0.53
1:A:1162:ALA:O	1:A:1165:TYR:N	2.40	0.53
1:C:93:ARG:NH2	1:C:507:PRO:HD2	2.23	0.53
1:C:213:GLU:O	1:C:216:ASP:HB3	2.09	0.53
1:C:277:ILE:HG21	1:C:342:LEU:HD23	1.89	0.53
1:C:1055:VAL:HG23	1:C:1056:THR:H	1.74	0.53
2:D:165:LEU:HD11	2:D:169:PHE:HE2	1.73	0.53
1:E:400:HIS:CE1	1:E:402:ALA:HB3	2.44	0.53
1:E:1053:HIS:HA	1:E:1055:VAL:HG22	1.91	0.53
1:E:1055:VAL:HG23	1:E:1056:THR:H	1.74	0.53
1:E:1292:LEU:HD21	1:E:1392:VAL:HG21	1.89	0.53
1:E:1369:LYS:HB3	1:E:1374:MET:SD	2.48	0.53
1:E:1617:ALA:HB3	1:E:1694:PHE:CE1	2.43	0.53
1:G:1369:LYS:HB3	1:G:1374:MET:SD	2.49	0.53
1:A:1043:GLU:HA	1:A:1046:ARG:HG3	1.90	0.53
1:A:1054:TYR:CE2	1:A:1109:LEU:HD13	2.44	0.53
1:A:1296:GLU:CD	1:A:1426:SER:HB2	2.33	0.53
1:A:1749:GLY:HA2	1:A:1774:PRO:C	2.34	0.53
1:C:124:HIS:HE1	1:C:126:ARG:HA	1.74	0.53
1:C:400:HIS:CE1	1:C:402:ALA:HB3	2.44	0.53
1:C:1423:SER:O	1:C:1428:GLN:NE2	2.42	0.53
1:C:1711:ILE:HA	1:C:1714:LEU:HD13	1.91	0.53
1:C:1875:LEU:HB2	1:C:1895:GLU:HB3	1.91	0.53
1:E:93:ARG:NH2	1:E:507:PRO:HD2	2.24	0.53
1:E:203:LEU:HB3	1:E:206:LEU:HD13	1.90	0.53
1:E:346:LEU:HD22	1:E:606:VAL:HG21	1.91	0.53
1:E:557:SER:HA	1:E:614:GLU:HA	1.90	0.53
1:E:634:LEU:HD21	1:E:656:PHE:HD1	1.74	0.53
1:E:1579:ILE:HG22	1:E:1886:LYS:NZ	2.24	0.53
1:E:1711:ILE:HA	1:E:1714:LEU:HD13	1.91	0.53
2:F:165:LEU:HD11	2:F:169:PHE:HE2	1.74	0.53
1:G:213:GLU:O	1:G:216:ASP:HB3	2.09	0.53
1:G:1021:TYR:CE1	1:G:1041:ARG:HD2	2.43	0.53
1:G:2006:ASN:O	1:G:2010:LEU:HG	2.09	0.53
1:G:2012:GLU:HA	1:G:2015:GLN:OE1	2.08	0.53
1:A:1499:PHE:O	1:A:1503:LYS:N	2.32	0.53
2:B:165:LEU:HD11	2:B:169:PHE:HE2	1.73	0.53
1:C:1423:SER:O	1:C:1426:SER:OG	2.26	0.53

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1848:ARG:HG3	1:C:1878:THR:H	1.74	0.53
1:E:721:ASP:HB3	1:E:724:LEU:HB2	1.92	0.53
1:E:1423:SER:O	1:E:1426:SER:OG	2.26	0.53
1:E:2012:GLU:HA	1:E:2015:GLN:OE1	2.08	0.53
1:G:996:SER:HA	1:G:999:PHE:CD2	2.43	0.53
1:G:1055:VAL:HG23	1:G:1056:THR:H	1.74	0.53
1:G:1423:SER:O	1:G:1428:GLN:NE2	2.42	0.53
1:G:1464:LEU:HD22	1:G:1465:ARG:HD2	1.90	0.53
1:G:1873:LYS:HB2	1:G:1897:THR:OG1	2.08	0.53
1:G:1943:ASN:HD22	2:H:36:VAL:C	2.17	0.53
1:G:1962:LYS:O	1:G:1966:HIS:ND1	2.41	0.53
1:C:550:LEU:HD11	1:C:590:PHE:HE1	1.74	0.52
1:C:1767:GLN:HG3	1:C:1890:ARG:HH22	1.74	0.52
1:C:2006:ASN:O	1:C:2010:LEU:HG	2.09	0.52
1:E:213:GLU:O	1:E:216:ASP:HB3	2.09	0.52
1:E:1021:TYR:CE1	1:E:1041:ARG:HD2	2.43	0.52
1:E:1590:GLN:CD	1:E:1596:ARG:HH21	2.17	0.52
1:G:588:VAL:O	1:G:622:HIS:ND1	2.35	0.52
1:G:632:HIS:CD2	1:G:686:SER:HB2	2.45	0.52
1:G:785:ARG:HH21	1:G:789:ARG:HH11	1.57	0.52
1:A:204:PRO:O	1:A:207:LEU:HG	2.08	0.52
1:A:785:ARG:HH21	1:A:789:ARG:HH11	1.57	0.52
1:A:1168:LEU:HA	1:A:1171:ILE:HB	1.91	0.52
1:A:1873:LYS:HB2	1:A:1897:THR:OG1	2.08	0.52
1:C:933:PHE:O	1:C:936:GLN:HG2	2.08	0.52
1:C:1499:PHE:O	1:C:1503:LYS:HG3	2.10	0.52
2:D:112:LEU:HB3	2:D:154:TYR:HD1	1.74	0.52
1:E:124:HIS:HE1	1:E:126:ARG:HA	1.74	0.52
1:E:775:PHE:HD2	1:E:777:HIS:CE1	2.27	0.52
1:E:1464:LEU:HD22	1:E:1465:ARG:HD2	1.90	0.52
1:E:1892:CYS:SG	1:E:1893:HIS:ND1	2.79	0.52
1:E:2006:ASN:O	1:E:2010:LEU:HG	2.09	0.52
2:F:112:LEU:HB3	2:F:154:TYR:HD1	1.74	0.52
1:G:577:MET:HE1	1:G:634:LEU:HB2	1.90	0.52
1:G:1499:PHE:O	1:G:1503:LYS:HG3	2.10	0.52
1:G:1617:ALA:HB3	1:G:1694:PHE:CE1	2.43	0.52
1:G:1711:ILE:HA	1:G:1714:LEU:HD13	1.91	0.52
1:A:121:VAL:N	1:A:838:TYR:O	2.42	0.52
1:A:346:LEU:HD22	1:A:606:VAL:HG21	1.90	0.52
1:A:1152:TYR:O	1:A:1158:LYS:HE3	2.08	0.52
1:C:55:ASP:O	1:C:55:ASP:OD2	2.27	0.52

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:343:GLU:OE1	1:C:616:TYR:OH	2.25	0.52
1:C:1684:VAL:O	1:C:1687:LEU:HG	2.09	0.52
1:E:728:PHE:O	1:E:732:HIS:ND1	2.42	0.52
1:E:1556:PHE:HA	1:E:1559:HIS:ND1	2.25	0.52
1:G:121:VAL:N	1:G:838:TYR:O	2.42	0.52
1:G:775:PHE:HD2	1:G:777:HIS:CE1	2.27	0.52
1:G:1054:TYR:HA	1:G:1057:LEU:HB2	1.91	0.52
1:G:1168:LEU:HA	1:G:1171:ILE:HB	1.91	0.52
1:G:1753:ARG:HH22	1:G:1821:GLN:HG2	1.74	0.52
1:A:587:PRO:HG3	1:A:600:ARG:HD3	1.91	0.52
1:A:1848:ARG:HG3	1:A:1878:THR:H	1.74	0.52
2:B:8:VAL:O	2:B:16:LYS:NZ	2.41	0.52
1:C:728:PHE:O	1:C:732:HIS:ND1	2.42	0.52
1:C:785:ARG:HH21	1:C:789:ARG:HH11	1.57	0.52
1:C:1021:TYR:OH	1:C:1045:THR:OG1	2.00	0.52
1:C:1053:HIS:HA	1:C:1055:VAL:HG22	1.91	0.52
1:C:1585:ILE:O	1:C:1596:ARG:NH1	2.31	0.52
1:C:1749:GLY:HA2	1:C:1774:PRO:C	2.34	0.52
1:E:1054:TYR:HA	1:E:1057:LEU:HB2	1.91	0.52
1:E:1584:ARG:NH1	1:E:1584:ARG:O	2.43	0.52
1:G:1749:GLY:HA2	1:G:1774:PRO:C	2.34	0.52
1:A:295:ASN:HD21	1:A:618:GLU:HB3	1.75	0.52
1:A:775:PHE:HD2	1:A:777:HIS:CE1	2.27	0.52
1:C:775:PHE:HD2	1:C:777:HIS:CE1	2.27	0.52
1:C:1391:VAL:O	1:C:1395:THR:HG23	2.10	0.52
1:C:1556:PHE:HA	1:C:1559:HIS:ND1	2.24	0.52
1:C:1590:GLN:CD	1:C:1596:ARG:HH21	2.17	0.52
1:E:287:ARG:NH1	1:E:333:SER:OG	2.40	0.52
1:E:587:PRO:HG3	1:E:600:ARG:HD3	1.91	0.52
1:E:1582:MET:HE2	1:E:1603:MET:CG	2.39	0.52
1:G:343:GLU:OE1	1:G:616:TYR:OH	2.25	0.52
1:G:1040:LEU:HA	1:G:1043:GLU:OE1	2.10	0.52
1:G:1052:GLU:OE2	1:G:1151:ARG:NH1	2.34	0.52
1:G:1556:PHE:HA	1:G:1559:HIS:ND1	2.25	0.52
1:G:1585:ILE:O	1:G:1596:ARG:NH1	2.31	0.52
1:G:1590:GLN:CD	1:G:1596:ARG:HH21	2.17	0.52
2:H:165:LEU:HD11	2:H:169:PHE:HE2	1.74	0.52
1:A:124:HIS:HE1	1:A:126:ARG:HA	1.74	0.52
1:A:400:HIS:CE1	1:A:402:ALA:HB3	2.44	0.52
1:A:1714:LEU:H	1:A:1714:LEU:HD12	1.75	0.52
2:B:40:TYR:O	2:B:55:LEU:N	2.41	0.52

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:826:ARG:HB3	1:C:828:HIS:CD2	2.45	0.52
1:C:1464:LEU:HD22	1:C:1465:ARG:HD2	1.90	0.52
1:C:1584:ARG:NH1	1:C:1584:ARG:O	2.43	0.52
1:C:1753:ARG:HH22	1:C:1821:GLN:HG2	1.75	0.52
2:D:132:LYS:HZ2	2:D:134:LEU:HD13	1.75	0.52
1:E:55:ASP:O	1:E:55:ASP:OD2	2.27	0.52
1:E:632:HIS:CD2	1:E:686:SER:HB2	2.45	0.52
1:E:1168:LEU:HA	1:E:1171:ILE:HB	1.91	0.52
1:E:1666:SER:O	1:E:1669:GLU:HG2	2.10	0.52
1:E:1714:LEU:H	1:E:1714:LEU:HD12	1.75	0.52
2:F:8:VAL:O	2:F:16:LYS:NZ	2.41	0.52
2:F:140:PRO:HA	2:F:143:LEU:HD13	1.92	0.52
1:G:295:ASN:HD21	1:G:618:GLU:HB3	1.75	0.52
1:G:1579:ILE:HG22	1:G:1886:LYS:NZ	2.24	0.52
1:A:1054:TYR:HA	1:A:1057:LEU:HB2	1.91	0.52
1:A:1059:LEU:HD11	1:A:1062:CYS:HB3	1.92	0.52
1:A:1255:ALA:HA	1:A:1258:LEU:HD12	1.92	0.52
1:A:1556:PHE:HA	1:A:1559:HIS:ND1	2.24	0.52
1:A:1740:GLN:NE2	1:A:1746:ARG:H	2.08	0.52
1:A:1875:LEU:HB2	1:A:1895:GLU:HB3	1.91	0.52
1:C:268:LEU:HG	1:C:496:LEU:HB2	1.92	0.52
1:C:632:HIS:CD2	1:C:686:SER:HB2	2.45	0.52
1:C:792:ILE:HG12	1:C:899:VAL:HG13	1.92	0.52
1:C:1999:TYR:HA	1:C:2002:GLU:HG3	1.92	0.52
2:D:16:LYS:HZ3	2:D:58:THR:N	2.07	0.52
1:E:63:ARG:NH1	1:E:1062:CYS:SG	2.79	0.52
1:E:1040:LEU:HA	1:E:1043:GLU:OE1	2.10	0.52
1:E:1176:LEU:HD21	1:E:1286:ASP:OD2	2.10	0.52
1:E:1255:ALA:HA	1:E:1258:LEU:HD12	1.92	0.52
1:G:1582:MET:HE2	1:G:1603:MET:CG	2.39	0.52
1:G:1584:ARG:NH1	1:G:1584:ARG:O	2.43	0.52
1:G:1740:GLN:NE2	1:G:1746:ARG:H	2.08	0.52
1:A:557:SER:HA	1:A:614:GLU:HA	1.90	0.52
1:A:769:PRO:O	1:A:773:VAL:HG23	2.10	0.52
1:A:1416:VAL:HG23	1:A:1417:LEU:HD22	1.90	0.52
1:A:2006:ASN:O	1:A:2010:LEU:HG	2.09	0.52
1:C:544:HIS:H	1:C:777:HIS:HE2	1.57	0.52
1:C:828:HIS:HA	1:C:932:TRP:CZ2	2.45	0.52
1:C:1054:TYR:CE2	1:C:1109:LEU:HD13	2.44	0.52
1:C:1579:ILE:HG22	1:C:1886:LYS:NZ	2.24	0.52
1:E:50:VAL:HG21	1:E:1018:ARG:HA	1.91	0.52

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1055:VAL:HG23	1:E:1056:THR:N	2.25	0.52
1:E:1260:VAL:HG13	1:E:1261:LEU:HD22	1.92	0.52
1:G:124:HIS:HE1	1:G:126:ARG:HA	1.74	0.52
1:G:1114:LEU:HA	1:G:1117:LEU:HD12	1.92	0.52
1:A:1055:VAL:HG23	1:A:1056:THR:H	1.74	0.52
1:A:1176:LEU:HD21	1:A:1286:ASP:OD2	2.10	0.52
1:A:1582:MET:HE2	1:A:1603:MET:CG	2.39	0.52
1:A:1711:ILE:HA	1:A:1714:LEU:HD13	1.91	0.52
1:C:557:SER:HA	1:C:614:GLU:HA	1.90	0.52
1:C:1114:LEU:HA	1:C:1117:LEU:HD12	1.92	0.52
1:E:792:ILE:HG12	1:E:899:VAL:HG13	1.92	0.52
1:E:1423:SER:O	1:E:1428:GLN:NE2	2.42	0.52
1:E:1510:LEU:O	1:E:1514:VAL:HG22	2.09	0.52
1:G:334:PRO:O	1:G:400:HIS:NE2	2.41	0.52
1:G:544:HIS:H	1:G:777:HIS:HE2	1.57	0.52
1:G:826:ARG:HB3	1:G:828:HIS:CD2	2.45	0.52
1:G:1620:MET:HE2	1:G:1690:ALA:HB2	1.92	0.52
1:G:1687:LEU:HD12	1:G:1688:GLU:N	2.25	0.52
1:G:1871:LYS:HZ2	2:H:33:ILE:HD12	1.73	0.52
1:A:268:LEU:HG	1:A:496:LEU:HB2	1.92	0.52
1:A:721:ASP:HB3	1:A:724:LEU:HB2	1.91	0.52
1:A:826:ARG:HB3	1:A:828:HIS:CD2	2.45	0.52
1:A:828:HIS:HA	1:A:932:TRP:CZ2	2.45	0.52
1:A:1423:SER:O	1:A:1428:GLN:NE2	2.42	0.52
1:A:1650:ILE:HA	1:A:1705:GLU:OE2	2.10	0.52
1:A:1710:LEU:HG	1:A:1714:LEU:HD11	1.93	0.52
1:C:1055:VAL:HG23	1:C:1056:THR:N	2.25	0.52
1:C:1740:GLN:NE2	1:C:1746:ARG:H	2.08	0.52
1:E:828:HIS:HA	1:E:932:TRP:CZ2	2.45	0.52
1:E:1431:LEU:O	1:E:1434:GLN:HB2	2.10	0.52
1:E:1753:ARG:HH22	1:E:1821:GLN:HG2	1.75	0.52
1:G:400:HIS:CE1	1:G:402:ALA:HB3	2.44	0.52
1:G:1666:SER:O	1:G:1669:GLU:HG2	2.10	0.52
1:G:1848:ARG:HG3	1:G:1878:THR:H	1.74	0.52
1:A:55:ASP:OD2	1:A:55:ASP:O	2.27	0.51
1:A:128:GLN:HB3	1:A:134:TYR:HD1	1.75	0.51
1:A:728:PHE:O	1:A:732:HIS:ND1	2.42	0.51
1:A:1431:LEU:O	1:A:1434:GLN:HB2	2.10	0.51
1:A:1579:ILE:HG22	1:A:1886:LYS:NZ	2.24	0.51
1:C:63:ARG:NH1	1:C:1062:CYS:SG	2.79	0.51
1:C:572:VAL:O	1:C:604:THR:OG1	2.22	0.51

*Continued on next page...*



*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1582:MET:HE2	1:C:1603:MET:CG	2.39	0.51
1:C:1650:ILE:HA	1:C:1705:GLU:OE2	2.10	0.51
1:E:1008:VAL:O	1:E:1010:ARG:HD3	2.11	0.51
1:G:1391:VAL:O	1:G:1395:THR:HG23	2.10	0.51
1:G:1650:ILE:HA	1:G:1705:GLU:OE2	2.10	0.51
1:A:550:LEU:HD11	1:A:590:PHE:HE1	1.74	0.51
1:A:1565:THR:O	1:A:1568:MET:HG2	2.11	0.51
1:A:1584:ARG:NH1	1:A:1584:ARG:O	2.43	0.51
1:A:1734:PHE:HE2	1:C:1724:ALA:HA	1.74	0.51
1:C:115:MET:HE3	1:C:778:HIS:CE1	2.46	0.51
1:C:573:ARG:NH1	1:C:638:TYR:OH	2.44	0.51
1:C:660:PRO:HD3	1:C:690:PRO:HD2	1.93	0.51
1:E:1059:LEU:HD11	1:E:1062:CYS:HB3	1.92	0.51
1:E:1416:VAL:HG23	1:E:1417:LEU:HD22	1.90	0.51
1:E:1687:LEU:HD12	1:E:1688:GLU:N	2.25	0.51
1:E:1767:GLN:HG3	1:E:1890:ARG:HH22	1.74	0.51
1:G:128:GLN:HB3	1:G:134:TYR:HD1	1.76	0.51
1:G:150:PRO:HG3	1:G:226:HIS:CE1	2.40	0.51
1:G:721:ASP:HB3	1:G:724:LEU:HB2	1.92	0.51
1:G:1714:LEU:H	1:G:1714:LEU:HD12	1.75	0.51
2:H:112:LEU:HB3	2:H:154:TYR:HD1	1.74	0.51
2:H:140:PRO:HA	2:H:143:LEU:HD13	1.92	0.51
1:A:203:LEU:HB3	1:A:206:LEU:HD13	1.91	0.51
1:A:544:HIS:H	1:A:777:HIS:HE2	1.57	0.51
1:C:203:LEU:HB3	1:C:206:LEU:HD13	1.90	0.51
1:C:718:HIS:CG	1:C:719:PRO:HD2	2.46	0.51
1:C:1582:MET:HE2	1:C:1603:MET:HG2	1.92	0.51
1:C:1714:LEU:HD12	1:C:1714:LEU:H	1.75	0.51
1:E:263:VAL:HG12	1:E:500:ILE:HG22	1.92	0.51
1:E:785:ARG:HH21	1:E:789:ARG:HH11	1.57	0.51
1:E:1499:PHE:O	1:E:1503:LYS:N	2.32	0.51
1:E:1650:ILE:HA	1:E:1705:GLU:OE2	2.10	0.51
1:E:1740:GLN:NE2	1:E:1746:ARG:H	2.08	0.51
1:E:1848:ARG:HG3	1:E:1878:THR:H	1.74	0.51
1:G:115:MET:HE3	1:G:778:HIS:CE1	2.46	0.51
1:G:792:ILE:HG12	1:G:899:VAL:HG13	1.92	0.51
1:G:1892:CYS:SG	1:G:1893:HIS:ND1	2.79	0.51
1:A:1467:LEU:HA	1:A:1470:CYS:HB2	1.93	0.51
1:A:1499:PHE:O	1:A:1503:LYS:HG3	2.10	0.51
1:A:1687:LEU:HD12	1:A:1688:GLU:N	2.25	0.51
1:C:1040:LEU:HA	1:C:1043:GLU:OE1	2.10	0.51

*Continued on next page...*



*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1054:TYR:HA	1:C:1057:LEU:HB2	1.91	0.51
1:E:544:HIS:H	1:E:777:HIS:HE2	1.57	0.51
1:E:573:ARG:NH1	1:E:638:TYR:OH	2.44	0.51
1:E:1582:MET:HE2	1:E:1603:MET:HG2	1.92	0.51
1:E:1875:LEU:HB2	1:E:1895:GLU:HB3	1.91	0.51
1:G:93:ARG:NH2	1:G:507:PRO:HD2	2.24	0.51
1:G:244:VAL:HB	1:G:246:ARG:HD2	1.93	0.51
1:G:718:HIS:CG	1:G:719:PRO:HD2	2.46	0.51
1:G:1055:VAL:HG23	1:G:1056:THR:N	2.24	0.51
1:G:1439:THR:OG1	1:G:1440:GLN:N	2.44	0.51
1:G:1767:GLN:HG3	1:G:1890:ARG:HH22	1.74	0.51
1:A:244:VAL:HB	1:A:246:ARG:HD2	1.92	0.51
1:A:1040:LEU:HA	1:A:1043:GLU:OE1	2.10	0.51
1:A:1753:ARG:HH22	1:A:1821:GLN:HG2	1.74	0.51
1:C:235:TYR:CG	1:C:236:PRO:HD2	2.46	0.51
1:C:914:LEU:O	1:C:917:VAL:HB	2.11	0.51
1:C:1255:ALA:HA	1:C:1258:LEU:HD12	1.92	0.51
1:C:1710:LEU:HG	1:C:1714:LEU:HD11	1.92	0.51
1:E:660:PRO:HD3	1:E:690:PRO:HD2	1.92	0.51
1:E:728:PHE:CE2	1:E:775:PHE:HE1	2.29	0.51
1:E:1499:PHE:O	1:E:1503:LYS:HG3	2.10	0.51
1:G:287:ARG:NH1	1:G:333:SER:OG	2.40	0.51
1:G:550:LEU:HD11	1:G:590:PHE:HE1	1.74	0.51
1:G:828:HIS:HA	1:G:932:TRP:CZ2	2.45	0.51
1:G:1587:ARG:C	1:G:1596:ARG:HH22	2.19	0.51
1:A:115:MET:HE3	1:A:778:HIS:CE1	2.46	0.51
1:A:235:TYR:CG	1:A:236:PRO:HD2	2.46	0.51
1:A:718:HIS:CG	1:A:719:PRO:HD2	2.45	0.51
1:A:1055:VAL:HG23	1:A:1056:THR:N	2.25	0.51
1:A:1114:LEU:HA	1:A:1117:LEU:HD12	1.92	0.51
1:A:1620:MET:HE2	1:A:1690:ALA:HB2	1.92	0.51
1:A:1727:HIS:CG	1:A:1731:GLN:HE22	2.29	0.51
1:A:1767:GLN:HG3	1:A:1890:ARG:HH22	1.74	0.51
1:A:1999:TYR:HA	1:A:2002:GLU:HG3	1.92	0.51
1:C:721:ASP:HB3	1:C:724:LEU:HB2	1.92	0.51
1:C:1431:LEU:O	1:C:1434:GLN:HB2	2.10	0.51
1:C:1666:SER:O	1:C:1669:GLU:HG2	2.10	0.51
1:C:1687:LEU:HD12	1:C:1688:GLU:N	2.25	0.51
1:E:769:PRO:O	1:E:773:VAL:HG23	2.10	0.51
1:G:587:PRO:HG3	1:G:600:ARG:HD3	1.91	0.51
1:G:728:PHE:CE2	1:G:775:PHE:HE1	2.29	0.51

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1669:GLU:HG3	1:G:1669:GLU:O	2.11	0.51
1:A:50:VAL:HG21	1:A:1018:ARG:HA	1.91	0.51
1:A:914:LEU:O	1:A:917:VAL:HB	2.11	0.51
1:C:287:ARG:HH22	1:C:334:PRO:HD2	1.76	0.51
1:C:728:PHE:CE2	1:C:775:PHE:HE1	2.29	0.51
1:C:980:ILE:HG22	1:C:1027:ARG:NE	2.18	0.51
1:C:1796:ASP:O	1:C:1817:LYS:HE3	2.11	0.51
1:E:128:GLN:HB3	1:E:134:TYR:HD1	1.76	0.51
1:E:235:TYR:CG	1:E:236:PRO:HD2	2.46	0.51
1:E:826:ARG:HB3	1:E:828:HIS:CD2	2.45	0.51
1:E:1620:MET:HE2	1:E:1690:ALA:HB2	1.92	0.51
1:E:1720:TYR:HB3	1:G:1738:MET:HE1	1.90	0.51
1:G:914:LEU:O	1:G:917:VAL:HB	2.11	0.51
1:G:1059:LEU:HD11	1:G:1062:CYS:HB3	1.92	0.51
1:G:1582:MET:HE2	1:G:1603:MET:HG2	1.92	0.51
1:A:632:HIS:CD2	1:A:686:SER:HB2	2.45	0.51
1:A:1260:VAL:HG13	1:A:1261:LEU:HD22	1.92	0.51
1:C:587:PRO:HG3	1:C:600:ARG:HD3	1.91	0.51
1:C:792:ILE:HG23	1:C:797:ILE:HG12	1.93	0.51
1:C:1758:GLY:N	1:C:1765:ASP:OD1	2.44	0.51
1:C:1814:ASP:OD1	1:C:1817:LYS:HB3	2.11	0.51
2:D:140:PRO:HA	2:D:143:LEU:HD13	1.92	0.51
1:E:115:MET:HE3	1:E:778:HIS:CE1	2.46	0.51
1:E:295:ASN:HD21	1:E:618:GLU:HB3	1.75	0.51
1:E:1391:VAL:O	1:E:1395:THR:HG23	2.10	0.51
1:E:1758:GLY:N	1:E:1765:ASP:OD1	2.44	0.51
1:G:1740:GLN:HG2	1:G:1745:GLU:HB2	1.93	0.51
1:A:562:SER:HB2	1:A:701:ASP:HB2	1.93	0.51
1:A:1582:MET:HE2	1:A:1603:MET:HG2	1.92	0.51
1:A:1666:SER:O	1:A:1669:GLU:HG2	2.10	0.51
1:A:1669:GLU:HG3	1:A:1669:GLU:O	2.11	0.51
1:C:263:VAL:HG12	1:C:500:ILE:HG22	1.92	0.51
1:C:1587:ARG:C	1:C:1596:ARG:HH22	2.19	0.51
1:E:268:LEU:HG	1:E:496:LEU:HB2	1.92	0.51
1:E:914:LEU:O	1:E:917:VAL:HB	2.11	0.51
1:E:1467:LEU:HA	1:E:1470:CYS:HB2	1.92	0.51
1:E:1565:THR:O	1:E:1568:MET:HG2	2.11	0.51
1:E:1727:HIS:CG	1:E:1731:GLN:HE22	2.29	0.51
1:E:1820:ILE:HG23	1:E:1822:ILE:HD11	1.93	0.51
1:G:344:LYS:HE3	1:G:394:PHE:CG	2.46	0.51
1:G:573:ARG:NH1	1:G:638:TYR:OH	2.44	0.51

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:660:PRO:HD3	1:G:690:PRO:HD2	1.92	0.51
1:G:1091:PRO:HA	1:G:1094:THR:HB	1.93	0.51
1:G:1727:HIS:CG	1:G:1731:GLN:HE22	2.29	0.51
1:A:263:VAL:HG12	1:A:500:ILE:HG22	1.93	0.51
1:A:1796:ASP:O	1:A:1817:LYS:HE3	2.11	0.51
1:C:334:PRO:O	1:C:400:HIS:NE2	2.41	0.51
1:C:540:VAL:O	1:C:770:GLU:HG3	2.11	0.51
1:C:562:SER:HB2	1:C:701:ASP:HB2	1.93	0.51
1:C:1168:LEU:HA	1:C:1171:ILE:HB	1.91	0.51
1:C:1439:THR:OG1	1:C:1440:GLN:N	2.44	0.51
1:C:1620:MET:HE2	1:C:1690:ALA:HB2	1.92	0.51
1:C:1962:LYS:O	1:C:1966:HIS:ND1	2.41	0.51
2:D:40:TYR:O	2:D:55:LEU:N	2.41	0.51
1:G:1710:LEU:HG	1:G:1714:LEU:HD11	1.93	0.51
1:A:75:LEU:O	1:A:1056:THR:OG1	2.23	0.50
1:A:344:LYS:HE3	1:A:394:PHE:CG	2.46	0.50
1:A:403:ASN:O	1:G:407:SER:HB2	2.11	0.50
1:A:573:ARG:NH1	1:A:638:TYR:OH	2.44	0.50
1:A:1391:VAL:O	1:A:1395:THR:HG23	2.10	0.50
1:A:1820:ILE:HG23	1:A:1822:ILE:HD11	1.93	0.50
1:A:1963:LEU:O	1:A:1967:HIS:ND1	2.28	0.50
1:C:115:MET:HB3	1:C:778:HIS:CE1	2.47	0.50
1:C:128:GLN:HB3	1:C:134:TYR:HD1	1.75	0.50
1:C:1110:ALA:O	1:C:1114:LEU:HG	2.11	0.50
1:C:1434:GLN:HA	1:C:1437:LEU:HD12	1.93	0.50
1:C:1467:LEU:HA	1:C:1470:CYS:HB2	1.93	0.50
1:C:1740:GLN:HG2	1:C:1745:GLU:HB2	1.93	0.50
1:E:244:VAL:HB	1:E:246:ARG:HD2	1.92	0.50
1:E:390:TYR:O	1:E:391:ARG:NH1	2.44	0.50
1:E:562:SER:HB2	1:E:701:ASP:HB2	1.93	0.50
1:E:719:PRO:HG2	1:E:725:ASP:HB2	1.93	0.50
2:F:16:LYS:HZ3	2:F:58:THR:N	2.07	0.50
1:G:263:VAL:HG12	1:G:500:ILE:HG22	1.92	0.50
1:G:268:LEU:HG	1:G:496:LEU:HB2	1.92	0.50
1:G:540:VAL:O	1:G:770:GLU:HG3	2.11	0.50
1:G:1110:ALA:O	1:G:1114:LEU:HG	2.11	0.50
1:G:1796:ASP:O	1:G:1817:LYS:HE3	2.11	0.50
1:G:1803:LYS:HZ2	2:H:160:LEU:HG	1.75	0.50
1:A:287:ARG:HH22	1:A:334:PRO:HD2	1.76	0.50
1:A:1008:VAL:O	1:A:1010:ARG:HD3	2.10	0.50
1:A:1091:PRO:HA	1:A:1094:THR:HB	1.93	0.50

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1296:GLU:OE2	1:A:1426:SER:HB2	2.12	0.50
1:A:1410:GLU:H	1:A:1410:GLU:CD	2.18	0.50
1:A:1727:HIS:CD2	1:C:1734:PHE:CD2	2.99	0.50
1:A:1814:ASP:OD1	1:A:1817:LYS:HB3	2.11	0.50
2:B:112:LEU:HB3	2:B:154:TYR:HD1	1.74	0.50
1:C:344:LYS:HE3	1:C:394:PHE:CG	2.46	0.50
1:C:1176:LEU:HD21	1:C:1286:ASP:OD2	2.10	0.50
1:C:1260:VAL:HG13	1:C:1261:LEU:HD22	1.92	0.50
1:C:1389:SER:HB2	1:C:1432:PHE:CZ	2.47	0.50
1:C:1477:ILE:H	1:C:1477:ILE:HD12	1.76	0.50
1:C:1800:GLU:OE1	1:C:1800:GLU:N	2.45	0.50
1:E:1114:LEU:HA	1:E:1117:LEU:HD12	1.92	0.50
1:E:1525:LEU:O	1:E:1529:LEU:HG	2.11	0.50
1:G:235:TYR:CG	1:G:236:PRO:HD2	2.46	0.50
1:G:287:ARG:HH22	1:G:334:PRO:HD2	1.76	0.50
1:G:390:TYR:O	1:G:391:ARG:NH1	2.44	0.50
1:G:1296:GLU:OE2	1:G:1426:SER:HB2	2.12	0.50
1:A:792:ILE:HG12	1:A:899:VAL:HG13	1.92	0.50
1:A:1143:LEU:HD12	1:A:1259:TRP:HZ3	1.76	0.50
1:A:1476:THR:HG23	1:A:1477:ILE:HD12	1.93	0.50
1:A:1524:HIS:HA	1:A:1527:ARG:HG2	1.93	0.50
1:A:1724:ALA:CB	1:C:1738:MET:SD	2.96	0.50
1:A:1758:GLY:N	1:A:1765:ASP:OD1	2.44	0.50
2:B:10:GLY:C	2:B:97:TRP:HZ3	2.19	0.50
1:C:1162:ALA:O	1:C:1165:TYR:N	2.39	0.50
1:C:1565:THR:O	1:C:1568:MET:HG2	2.11	0.50
1:E:343:GLU:OE1	1:E:616:TYR:OH	2.25	0.50
1:E:1143:LEU:HD12	1:E:1259:TRP:HZ3	1.76	0.50
1:E:1439:THR:OG1	1:E:1440:GLN:N	2.44	0.50
1:E:1587:ARG:C	1:E:1596:ARG:HH22	2.19	0.50
1:E:1669:GLU:O	1:E:1669:GLU:HG3	2.11	0.50
1:E:1800:GLU:OE1	1:E:1800:GLU:N	2.44	0.50
1:G:1176:LEU:HD21	1:G:1286:ASP:OD2	2.10	0.50
1:G:1467:LEU:HA	1:G:1470:CYS:HB2	1.93	0.50
1:G:1476:THR:HG23	1:G:1477:ILE:HD12	1.94	0.50
1:G:1700:TYR:HD2	1:G:1737:ILE:HD11	1.77	0.50
1:G:1703:VAL:HG22	1:G:1707:TYR:CZ	2.47	0.50
1:G:1814:ASP:OD1	1:G:1817:LYS:HB3	2.11	0.50
1:G:1875:LEU:C	1:G:1876:LEU:HD12	2.36	0.50
1:A:348:GLN:NE2	1:A:644:PRO:HD3	2.27	0.50
1:A:540:VAL:O	1:A:770:GLU:HG3	2.11	0.50

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:660:PRO:HD3	1:A:690:PRO:HD2	1.93	0.50
1:A:792:ILE:HG23	1:A:797:ILE:HG12	1.93	0.50
1:A:1718:ARG:HH22	1:C:1838:VAL:HG11	1.75	0.50
1:A:1875:LEU:C	1:A:1876:LEU:HD12	2.36	0.50
2:B:140:PRO:HA	2:B:143:LEU:HD13	1.92	0.50
1:C:215:VAL:HG12	1:C:219:ASN:HD21	1.77	0.50
1:C:295:ASN:HD21	1:C:618:GLU:HB3	1.75	0.50
1:C:719:PRO:HG2	1:C:725:ASP:HB2	1.93	0.50
1:C:1008:VAL:O	1:C:1010:ARG:HD3	2.11	0.50
1:C:1727:HIS:CG	1:C:1731:GLN:HE22	2.29	0.50
1:E:1027:ARG:HH11	1:E:1031:SER:HB2	1.77	0.50
1:E:1524:HIS:HA	1:E:1527:ARG:HG2	1.94	0.50
1:E:1814:ASP:OD1	1:E:1817:LYS:HB3	2.11	0.50
1:G:769:PRO:O	1:G:773:VAL:HG23	2.10	0.50
1:G:1143:LEU:HD12	1:G:1259:TRP:HZ3	1.76	0.50
1:G:1439:THR:O	1:G:1443:LEU:HG	2.12	0.50
2:H:10:GLY:C	2:H:97:TRP:HZ3	2.19	0.50
1:A:1587:ARG:C	1:A:1596:ARG:HH22	2.19	0.50
1:A:1635:GLU:OE2	1:A:1637:HIS:ND1	2.45	0.50
1:C:769:PRO:O	1:C:773:VAL:HG23	2.10	0.50
1:C:1120:ALA:O	1:C:1132:HIS:NE2	2.45	0.50
1:C:1437:LEU:C	1:C:1440:GLN:HE21	2.20	0.50
1:C:1525:LEU:O	1:C:1529:LEU:HG	2.11	0.50
1:C:1556:PHE:O	1:C:1559:HIS:HB2	2.12	0.50
1:E:115:MET:HB3	1:E:778:HIS:CE1	2.47	0.50
1:E:540:VAL:O	1:E:770:GLU:HG3	2.11	0.50
1:E:718:HIS:CG	1:E:719:PRO:HD2	2.45	0.50
1:E:1120:ALA:O	1:E:1132:HIS:NE2	2.45	0.50
1:E:1389:SER:HB2	1:E:1432:PHE:CZ	2.47	0.50
1:E:1434:GLN:HA	1:E:1437:LEU:HD12	1.93	0.50
1:E:1520:PHE:HE2	1:E:1522:GLU:HB3	1.77	0.50
1:E:1635:GLU:OE2	1:E:1637:HIS:ND1	2.45	0.50
1:E:1878:THR:OG1	1:E:1880:HIS:O	2.24	0.50
1:E:1999:TYR:HA	1:E:2002:GLU:HG3	1.92	0.50
1:G:1260:VAL:HG13	1:G:1261:LEU:HD22	1.92	0.50
1:G:1434:GLN:HA	1:G:1437:LEU:HD12	1.93	0.50
1:G:1524:HIS:HA	1:G:1527:ARG:HG2	1.93	0.50
1:G:1800:GLU:N	1:G:1800:GLU:OE1	2.45	0.50
1:A:334:PRO:O	1:A:400:HIS:NE2	2.41	0.50
1:A:336:ILE:HD11	1:A:402:ALA:HB2	1.93	0.50
1:A:719:PRO:HG2	1:A:725:ASP:HB2	1.93	0.50

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:728:PHE:CE2	1:A:775:PHE:HE1	2.29	0.50
1:A:1434:GLN:HA	1:A:1437:LEU:HD12	1.93	0.50
1:A:1573:GLU:N	1:A:1578:LEU:HD11	2.27	0.50
1:A:1999:TYR:HE2	2:B:67:LEU:HA	1.77	0.50
1:C:244:VAL:HB	1:C:246:ARG:HD2	1.93	0.50
1:C:336:ILE:HD11	1:C:402:ALA:HB2	1.93	0.50
1:C:389:ARG:HD3	1:C:603:PHE:CE2	2.47	0.50
1:C:1520:PHE:HE2	1:C:1522:GLU:HB3	1.77	0.50
1:C:1522:GLU:OE1	1:C:1522:GLU:N	2.32	0.50
1:C:1820:ILE:HG23	1:C:1822:ILE:HD11	1.93	0.50
1:E:336:ILE:HD11	1:E:402:ALA:HB2	1.93	0.50
1:E:910:GLU:O	1:E:914:LEU:HG	2.12	0.50
1:E:1090:ASP:OD2	1:E:1092:LYS:HB2	2.12	0.50
1:E:1110:ALA:O	1:E:1114:LEU:HG	2.11	0.50
1:E:1151:ARG:HH21	1:E:1152:TYR:HH	1.55	0.50
1:E:1296:GLU:OE2	1:E:1426:SER:HB2	2.12	0.50
1:E:1403:VAL:HA	1:E:1409:ARG:NH1	2.27	0.50
1:E:1573:GLU:N	1:E:1578:LEU:HD11	2.27	0.50
1:E:1703:VAL:HG22	1:E:1707:TYR:CZ	2.47	0.50
1:E:1796:ASP:O	1:E:1817:LYS:HE3	2.11	0.50
2:F:10:GLY:C	2:F:97:TRP:HZ3	2.19	0.50
1:G:348:GLN:NE2	1:G:644:PRO:HD3	2.27	0.50
1:G:1431:LEU:O	1:G:1434:GLN:HB2	2.10	0.50
1:G:1565:THR:O	1:G:1568:MET:HG2	2.11	0.50
1:A:402:ALA:HB1	1:A:446:PHE:CE1	2.47	0.50
1:A:1909:MET:CE	1:A:1974:PHE:HA	2.34	0.50
1:C:1059:LEU:HD11	1:C:1062:CYS:HB3	1.92	0.50
1:C:1143:LEU:HD12	1:C:1259:TRP:HZ3	1.76	0.50
1:C:1803:LYS:HZ3	2:D:28:PHE:HZ	1.54	0.50
2:D:10:GLY:C	2:D:97:TRP:HZ3	2.19	0.50
1:E:1693:TYR:O	1:E:1697:GLY:N	2.29	0.50
1:E:1875:LEU:C	1:E:1876:LEU:HD12	2.36	0.50
1:G:115:MET:HB3	1:G:778:HIS:CE1	2.47	0.50
1:G:400:HIS:O	1:G:403:ASN:HB2	2.12	0.50
1:G:719:PRO:HG2	1:G:725:ASP:HB2	1.93	0.50
1:G:1008:VAL:O	1:G:1010:ARG:HD3	2.11	0.50
1:G:1525:LEU:O	1:G:1529:LEU:HG	2.11	0.50
1:G:1573:GLU:N	1:G:1578:LEU:HD11	2.27	0.50
1:A:143:ARG:HA	1:A:146:GLN:HB2	1.94	0.50
1:A:400:HIS:O	1:A:403:ASN:HB2	2.12	0.50
1:A:1556:PHE:O	1:A:1559:HIS:HB2	2.12	0.50

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1837:ARG:HA	1:A:1842:ASP:OD2	2.12	0.50
1:A:1846:GLY:HA2	1:A:1881:ALA:HB1	1.94	0.50
1:C:1837:ARG:HA	1:C:1842:ASP:OD2	2.12	0.50
1:E:215:VAL:HG12	1:E:219:ASN:HD21	1.77	0.50
1:E:389:ARG:HD3	1:E:603:PHE:CE2	2.47	0.50
1:E:402:ALA:HB1	1:E:446:PHE:CE1	2.47	0.50
1:E:1091:PRO:HA	1:E:1094:THR:HB	1.93	0.50
1:E:1477:ILE:H	1:E:1477:ILE:HD12	1.76	0.50
1:E:1700:TYR:HD2	1:E:1737:ILE:HD11	1.77	0.50
1:G:1255:ALA:HA	1:G:1258:LEU:HD12	1.92	0.50
1:G:1999:TYR:HA	1:G:2002:GLU:HG3	1.92	0.50
1:A:1110:ALA:O	1:A:1114:LEU:HG	2.11	0.50
1:A:1403:VAL:HA	1:A:1409:ARG:NH1	2.27	0.50
1:A:1439:THR:OG1	1:A:1440:GLN:N	2.44	0.50
1:A:1477:ILE:HD12	1:A:1477:ILE:H	1.76	0.50
1:A:1587:ARG:HE	1:A:1590:GLN:NE2	2.10	0.50
1:A:1962:LYS:O	1:A:1966:HIS:ND1	2.41	0.50
1:C:1296:GLU:OE2	1:C:1426:SER:HB2	2.12	0.50
1:C:1439:THR:O	1:C:1443:LEU:HG	2.12	0.50
1:E:344:LYS:HE3	1:E:394:PHE:CG	2.46	0.50
1:E:1143:LEU:HD12	1:E:1259:TRP:CZ3	2.47	0.50
1:E:1622:HIS:HA	1:E:1654:VAL:HG23	1.94	0.50
1:G:215:VAL:HG12	1:G:219:ASN:HD21	1.77	0.50
1:G:1389:SER:HB2	1:G:1432:PHE:CZ	2.47	0.50
1:G:1477:ILE:HD12	1:G:1477:ILE:H	1.76	0.50
1:G:1556:PHE:O	1:G:1559:HIS:HB2	2.12	0.50
1:A:389:ARG:HD3	1:A:603:PHE:CE2	2.47	0.49
1:A:1027:ARG:HH11	1:A:1031:SER:HB2	1.77	0.49
1:A:1439:THR:O	1:A:1443:LEU:HG	2.12	0.49
1:C:1587:ARG:HE	1:C:1590:GLN:NE2	2.10	0.49
1:E:635:PHE:CD1	1:E:657:THR:HG23	2.44	0.49
1:E:1052:GLU:OE2	1:E:1151:ARG:NH1	2.34	0.49
1:E:1710:LEU:HG	1:E:1714:LEU:HD11	1.92	0.49
1:A:400:HIS:HE1	1:A:402:ALA:HB3	1.77	0.49
1:A:1090:ASP:OD2	1:A:1092:LYS:HB2	2.11	0.49
1:A:1525:LEU:O	1:A:1529:LEU:HG	2.11	0.49
1:C:143:ARG:HG2	1:C:147:LYS:NZ	2.27	0.49
1:C:1091:PRO:HA	1:C:1094:THR:HB	1.93	0.49
1:C:1622:HIS:HA	1:C:1654:VAL:HG23	1.94	0.49
1:C:1635:GLU:OE2	1:C:1637:HIS:ND1	2.45	0.49
1:C:1669:GLU:HG3	1:C:1669:GLU:O	2.11	0.49

*Continued on next page...*



*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:980:ILE:HG22	1:E:1027:ARG:NE	2.18	0.49
1:E:1740:GLN:HG2	1:E:1745:GLU:HB2	1.93	0.49
1:E:1856:PHE:CE1	1:E:1872:ARG:HD3	2.47	0.49
1:A:910:GLU:O	1:A:914:LEU:HG	2.12	0.49
1:A:1120:ALA:O	1:A:1132:HIS:NE2	2.45	0.49
1:A:1800:GLU:OE1	1:A:1800:GLU:N	2.44	0.49
1:C:1856:PHE:CE1	1:C:1872:ARG:HD3	2.47	0.49
1:E:287:ARG:HH22	1:E:334:PRO:HD2	1.76	0.49
1:E:580:GLU:OE1	1:E:685:TYR:N	2.46	0.49
1:E:1262:LYS:HG2	1:E:1263:ASN:N	2.27	0.49
1:E:1439:THR:O	1:E:1443:LEU:HG	2.12	0.49
1:E:1804:ASP:OD1	1:E:1805:SER:N	2.45	0.49
1:E:1846:GLY:HA2	1:E:1881:ALA:HB1	1.94	0.49
1:G:389:ARG:HD3	1:G:603:PHE:CE2	2.47	0.49
1:G:580:GLU:OE1	1:G:685:TYR:N	2.46	0.49
1:G:1027:ARG:HH11	1:G:1031:SER:HB2	1.77	0.49
1:G:1437:LEU:C	1:G:1440:GLN:HE21	2.20	0.49
1:A:1143:LEU:HD12	1:A:1259:TRP:CZ3	2.47	0.49
1:A:1389:SER:HB2	1:A:1432:PHE:CZ	2.47	0.49
1:A:1677:HIS:O	1:A:1679:THR:N	2.40	0.49
1:A:1979:LYS:HA	1:A:1982:GLU:OE1	2.13	0.49
1:C:1090:ASP:OD2	1:C:1092:LYS:HB2	2.11	0.49
1:C:1875:LEU:C	1:C:1876:LEU:HD12	2.36	0.49
1:E:249:ARG:HG2	1:E:838:TYR:OH	2.13	0.49
2:F:40:TYR:O	2:F:55:LEU:N	2.41	0.49
1:G:336:ILE:HD11	1:G:402:ALA:HB2	1.93	0.49
1:G:560:PHE:HB2	1:G:570:LEU:HD11	1.95	0.49
1:G:792:ILE:HG23	1:G:797:ILE:HG12	1.93	0.49
1:G:1120:ALA:O	1:G:1132:HIS:NE2	2.45	0.49
1:G:1392:VAL:O	1:G:1396:LEU:HD23	2.13	0.49
1:G:1622:HIS:HA	1:G:1654:VAL:HG23	1.94	0.49
1:G:1758:GLY:N	1:G:1765:ASP:OD1	2.44	0.49
1:A:215:VAL:HG12	1:A:219:ASN:HD21	1.77	0.49
1:A:1520:PHE:HE2	1:A:1522:GLU:HB3	1.77	0.49
1:A:1703:VAL:HG22	1:A:1707:TYR:CZ	2.47	0.49
1:A:1740:GLN:HG2	1:A:1745:GLU:HB2	1.93	0.49
1:A:1804:ASP:OD1	1:A:1805:SER:N	2.45	0.49
1:A:1856:PHE:CE1	1:A:1872:ARG:HD3	2.47	0.49
1:C:560:PHE:HB2	1:C:570:LEU:HD11	1.95	0.49
1:C:1804:ASP:OD1	1:C:1805:SER:N	2.46	0.49
1:E:726:LYS:HD3	1:E:760:SER:HB3	1.94	0.49

*Continued on next page...*



*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1627:VAL:HG12	1:G:1683:LEU:HD11	1.95	0.49
1:G:1979:LYS:HA	1:G:1982:GLU:OE1	2.13	0.49
1:A:115:MET:HB3	1:A:778:HIS:CE1	2.47	0.49
1:A:132:ALA:HB3	1:A:1050:SER:OG	2.13	0.49
1:A:1262:LYS:HG2	1:A:1263:ASN:N	2.27	0.49
1:A:1700:TYR:HD2	1:A:1737:ILE:HD11	1.77	0.49
1:C:1027:ARG:HH11	1:C:1031:SER:HB2	1.77	0.49
1:C:1143:LEU:HD12	1:C:1259:TRP:CZ3	2.47	0.49
1:C:1703:VAL:HG22	1:C:1707:TYR:CZ	2.47	0.49
1:E:1556:PHE:O	1:E:1559:HIS:HB2	2.12	0.49
1:E:1731:GLN:HG3	1:G:1727:HIS:CE1	2.48	0.49
1:G:263:VAL:O	1:G:324:SER:HA	2.13	0.49
1:G:562:SER:HB2	1:G:701:ASP:HB2	1.93	0.49
1:G:726:LYS:HD3	1:G:760:SER:HB3	1.94	0.49
1:G:1403:VAL:HA	1:G:1409:ARG:NH1	2.27	0.49
1:G:1587:ARG:HE	1:G:1590:GLN:NE2	2.10	0.49
1:G:1909:MET:HE1	1:G:1974:PHE:CD1	2.46	0.49
1:A:1909:MET:HE1	1:A:1974:PHE:CD1	2.46	0.49
2:B:85:VAL:HB	2:B:129:LEU:HD11	1.95	0.49
1:C:580:GLU:OE1	1:C:685:TYR:N	2.46	0.49
1:C:588:VAL:HG23	1:C:621:LEU:HD12	1.94	0.49
1:C:1677:HIS:O	1:C:1679:THR:N	2.40	0.49
1:E:106:ASP:OD1	1:E:107:ALA:N	2.46	0.49
1:E:286:VAL:HG22	1:E:335:ASP:HB3	1.95	0.49
1:E:398:ALA:HB3	1:E:479:MET:SD	2.53	0.49
1:E:513:PRO:HD3	1:E:531:GLU:HG2	1.95	0.49
1:E:1810:LYS:HD2	1:E:1813:LEU:HB2	1.95	0.49
1:G:132:ALA:HB3	1:G:1050:SER:OG	2.13	0.49
1:G:1064:LEU:HD21	1:G:1102:PRO:O	2.13	0.49
1:A:55:ASP:CG	1:A:58:ASP:HB3	2.38	0.49
1:A:1052:GLU:OE2	1:A:1151:ARG:NH1	2.34	0.49
1:A:1650:ILE:O	1:A:1845:TYR:OH	2.31	0.49
1:C:286:VAL:HG22	1:C:335:ASP:HB3	1.95	0.49
1:C:390:TYR:O	1:C:391:ARG:NH1	2.44	0.49
1:C:400:HIS:O	1:C:403:ASN:HB2	2.12	0.49
1:C:910:GLU:HG2	1:C:911:GLU:CD	2.38	0.49
1:C:910:GLU:O	1:C:914:LEU:HG	2.12	0.49
1:C:1410:GLU:H	1:C:1410:GLU:CD	2.18	0.49
1:C:1524:HIS:HA	1:C:1527:ARG:HG2	1.93	0.49
1:C:1573:GLU:N	1:C:1578:LEU:HD11	2.27	0.49
1:C:1892:CYS:SG	1:C:1893:HIS:ND1	2.79	0.49

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1979:LYS:HA	1:C:1982:GLU:OE1	2.13	0.49
2:D:85:VAL:HB	2:D:129:LEU:HD11	1.95	0.49
1:E:55:ASP:CG	1:E:58:ASP:HB3	2.38	0.49
1:E:560:PHE:HB2	1:E:570:LEU:HD11	1.95	0.49
1:E:588:VAL:HB	1:E:622:HIS:ND1	2.28	0.49
1:E:1476:THR:HG23	1:E:1477:ILE:HD12	1.94	0.49
1:E:1934:LEU:HD21	1:E:1984:ALA:HB1	1.95	0.49
1:E:1999:TYR:OH	2:F:66:ARG:O	2.31	0.49
2:F:4:ILE:HD12	2:F:173:ILE:HD12	1.95	0.49
1:G:55:ASP:CG	1:G:58:ASP:HB3	2.38	0.49
1:G:1041:ARG:O	1:G:1044:PHE:HB3	2.13	0.49
1:G:1635:GLU:OE2	1:G:1637:HIS:ND1	2.45	0.49
1:G:1851:LEU:HB2	1:G:1875:LEU:HD23	1.94	0.49
1:A:286:VAL:HG22	1:A:335:ASP:HB3	1.95	0.49
1:A:580:GLU:OE1	1:A:685:TYR:N	2.46	0.49
1:A:1740:GLN:HE21	1:A:1746:ARG:H	1.61	0.49
1:E:588:VAL:HG23	1:E:621:LEU:HD12	1.94	0.49
1:E:1064:LEU:HD21	1:E:1102:PRO:O	2.13	0.49
1:E:1837:ARG:HA	1:E:1842:ASP:OD2	2.12	0.49
2:F:85:VAL:HB	2:F:129:LEU:HD11	1.95	0.49
1:G:143:ARG:HA	1:G:146:GLN:HB2	1.94	0.49
1:G:1090:ASP:OD2	1:G:1092:LYS:HB2	2.11	0.49
1:G:1288:LEU:HD13	1:G:1396:LEU:CD2	2.43	0.49
1:G:1433:LEU:O	1:G:1437:LEU:HG	2.13	0.49
1:G:1617:ALA:O	1:G:1621:VAL:HG23	2.13	0.49
1:G:1650:ILE:O	1:G:1845:TYR:OH	2.31	0.49
1:G:1804:ASP:OD1	1:G:1806:ASN:N	2.45	0.49
1:G:1837:ARG:HA	1:G:1842:ASP:OD2	2.12	0.49
1:A:263:VAL:O	1:A:324:SER:HA	2.13	0.49
1:A:390:TYR:CD2	1:A:606:VAL:HG11	2.48	0.49
1:A:398:ALA:HB3	1:A:479:MET:SD	2.53	0.49
1:A:910:GLU:HG2	1:A:911:GLU:CD	2.38	0.49
1:A:1041:ARG:O	1:A:1044:PHE:HB3	2.13	0.49
1:A:1437:LEU:C	1:A:1440:GLN:HE21	2.20	0.49
1:C:76:VAL:HB	1:C:1061:CYS:H	1.78	0.49
1:C:288:GLU:O	1:C:289:LYS:HG2	2.13	0.49
1:C:1650:ILE:O	1:C:1845:TYR:OH	2.31	0.49
1:C:1700:TYR:HD2	1:C:1737:ILE:HD11	1.77	0.49
1:C:1810:LYS:HD2	1:C:1813:LEU:HB2	1.95	0.49
1:E:143:ARG:HG2	1:E:147:LYS:NZ	2.27	0.49
1:E:907:LEU:HD22	1:E:945:HIS:CD2	2.48	0.49

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1907:GLU:HA	1:E:1910:GLN:HG2	1.95	0.49
1:E:1979:LYS:HA	1:E:1982:GLU:OE1	2.13	0.49
2:F:86:SER:O	2:F:89:SER:OG	2.25	0.49
1:G:143:ARG:HG2	1:G:147:LYS:NZ	2.28	0.49
1:G:621:LEU:HD22	1:G:633:LEU:HD11	1.95	0.49
1:G:910:GLU:O	1:G:914:LEU:HG	2.12	0.49
1:G:1143:LEU:HD12	1:G:1259:TRP:CZ3	2.47	0.49
1:G:1176:LEU:HD12	1:G:1179:LEU:HD12	1.95	0.49
1:G:1856:PHE:CE1	1:G:1872:ARG:HD3	2.47	0.49
1:A:114:GLU:HA	1:A:117:ILE:HG22	1.95	0.48
1:A:269:LYS:O	1:A:495:GLN:N	2.46	0.48
1:A:588:VAL:HG23	1:A:621:LEU:HD12	1.94	0.48
1:A:588:VAL:HB	1:A:622:HIS:ND1	2.28	0.48
1:A:1622:HIS:HA	1:A:1654:VAL:HG23	1.94	0.48
1:A:1804:ASP:OD1	1:A:1806:ASN:N	2.45	0.48
2:B:16:LYS:HZ3	2:B:58:THR:N	2.09	0.48
1:C:106:ASP:OD1	1:C:107:ALA:N	2.46	0.48
1:C:132:ALA:HB3	1:C:1050:SER:OG	2.13	0.48
1:C:208:GLU:OE1	1:C:208:GLU:N	2.46	0.48
1:C:1176:LEU:HD12	1:C:1179:LEU:HD12	1.95	0.48
1:C:1403:VAL:HA	1:C:1409:ARG:NH1	2.27	0.48
1:C:1484:SER:O	1:C:1488:LEU:HD13	2.13	0.48
1:C:1617:ALA:O	1:C:1621:VAL:HG23	2.13	0.48
1:C:1620:MET:O	1:C:1686:LEU:HD21	2.13	0.48
1:E:288:GLU:O	1:E:289:LYS:HG2	2.13	0.48
1:E:1392:VAL:O	1:E:1396:LEU:HD23	2.13	0.48
1:E:1620:MET:O	1:E:1686:LEU:HD21	2.13	0.48
1:E:1740:GLN:HE21	1:E:1746:ARG:H	1.61	0.48
1:E:1851:LEU:HB2	1:E:1875:LEU:HD23	1.95	0.48
1:G:249:ARG:HG2	1:G:838:TYR:OH	2.13	0.48
1:G:402:ALA:HB1	1:G:446:PHE:CE1	2.47	0.48
1:G:555:PRO:HB3	1:G:707:PHE:HZ	1.78	0.48
1:G:1804:ASP:OD1	1:G:1805:SER:N	2.45	0.48
1:G:1987:LYS:HZ2	1:G:1991:LEU:HD11	1.78	0.48
2:H:4:ILE:HD12	2:H:173:ILE:HD12	1.95	0.48
2:H:53:LEU:HD21	2:H:173:ILE:HD11	1.95	0.48
1:A:621:LEU:HD22	1:A:633:LEU:HD11	1.95	0.48
1:A:1617:ALA:O	1:A:1621:VAL:HG23	2.13	0.48
1:A:1728:GLY:HA2	1:A:1731:GLN:OE1	2.13	0.48
1:A:1907:GLU:HA	1:A:1910:GLN:HG2	1.95	0.48
1:C:249:ARG:HG2	1:C:838:TYR:OH	2.13	0.48

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:402:ALA:HB1	1:C:446:PHE:CE1	2.47	0.48
1:C:1146:HIS:CD2	1:C:1165:TYR:HH	2.30	0.48
1:C:1285:LEU:HD22	1:C:1396:LEU:HD11	1.96	0.48
1:C:1476:THR:HG23	1:C:1477:ILE:HD12	1.94	0.48
2:D:124:ASP:O	2:D:128:LYS:HG2	2.13	0.48
1:E:114:GLU:HA	1:E:117:ILE:HG22	1.95	0.48
1:G:288:GLU:O	1:G:289:LYS:HG2	2.13	0.48
1:G:1800:GLU:O	1:G:1820:ILE:HG22	2.14	0.48
1:A:143:ARG:HG2	1:A:147:LYS:NZ	2.27	0.48
1:A:1176:LEU:HD12	1:A:1179:LEU:HD12	1.95	0.48
1:C:143:ARG:HA	1:C:146:GLN:HB2	1.94	0.48
1:C:328:SER:O	1:C:534:GLU:HG3	2.13	0.48
1:C:398:ALA:HB3	1:C:479:MET:SD	2.53	0.48
1:C:588:VAL:HB	1:C:622:HIS:ND1	2.28	0.48
1:C:1392:VAL:O	1:C:1396:LEU:HD23	2.13	0.48
1:E:143:ARG:HA	1:E:146:GLN:HB2	1.94	0.48
1:E:263:VAL:O	1:E:324:SER:HA	2.13	0.48
1:E:400:HIS:O	1:E:403:ASN:HB2	2.12	0.48
1:E:1176:LEU:HD12	1:E:1179:LEU:HD12	1.95	0.48
2:F:161:THR:HG22	2:F:163:ARG:CD	2.43	0.48
2:H:85:VAL:HB	2:H:129:LEU:HD11	1.95	0.48
1:A:328:SER:O	1:A:534:GLU:HG3	2.13	0.48
1:A:555:PRO:HB3	1:A:707:PHE:HZ	1.78	0.48
1:A:560:PHE:HB2	1:A:570:LEU:HD11	1.95	0.48
1:A:907:LEU:HD22	1:A:945:HIS:CD2	2.48	0.48
1:A:1392:VAL:O	1:A:1396:LEU:HD23	2.13	0.48
1:A:1399:ILE:O	1:A:1402:THR:HB	2.14	0.48
1:A:1593:PRO:HB3	1:A:1630:TYR:CE2	2.48	0.48
2:B:4:ILE:HD12	2:B:173:ILE:HD12	1.95	0.48
2:B:116:LYS:HB3	2:B:119:LEU:HD12	1.96	0.48
1:C:143:ARG:HG2	1:C:147:LYS:HZ3	1.78	0.48
1:C:1064:LEU:HD21	1:C:1102:PRO:O	2.13	0.48
1:C:1617:ALA:HA	1:C:1620:MET:HG2	1.95	0.48
2:D:53:LEU:HD21	2:D:173:ILE:HD11	1.95	0.48
1:E:76:VAL:HB	1:E:1061:CYS:H	1.78	0.48
1:E:132:ALA:HB3	1:E:1050:SER:OG	2.13	0.48
1:E:269:LYS:O	1:E:495:GLN:N	2.46	0.48
1:E:792:ILE:HG23	1:E:797:ILE:HG12	1.93	0.48
1:E:1041:ARG:O	1:E:1044:PHE:HB3	2.13	0.48
1:E:1617:ALA:HA	1:E:1620:MET:HG2	1.95	0.48
1:G:106:ASP:OD1	1:G:107:ALA:N	2.46	0.48

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:390:TYR:CD2	1:G:606:VAL:HG11	2.48	0.48
1:G:1820:ILE:HG23	1:G:1822:ILE:HD11	1.93	0.48
1:A:346:LEU:HA	1:A:392:MET:HG2	1.96	0.48
1:A:403:ASN:O	1:A:407:SER:HB3	2.14	0.48
1:A:551:LEU:HD21	1:A:621:LEU:HD23	1.95	0.48
1:A:1433:LEU:O	1:A:1437:LEU:HG	2.13	0.48
1:A:1710:LEU:O	1:A:1713:ILE:HG22	2.14	0.48
1:C:390:TYR:CD2	1:C:606:VAL:HG11	2.48	0.48
1:C:1399:ILE:O	1:C:1402:THR:HB	2.14	0.48
1:E:390:TYR:CD2	1:E:606:VAL:HG11	2.48	0.48
1:E:400:HIS:HE1	1:E:402:ALA:HB3	1.77	0.48
1:E:915:GLN:HA	1:E:918:VAL:HG22	1.96	0.48
1:E:1587:ARG:HE	1:E:1590:GLN:NE2	2.10	0.48
1:E:1728:GLY:HA2	1:E:1731:GLN:OE1	2.13	0.48
1:E:1932:MET:HE3	2:F:39:ASN:ND2	2.28	0.48
1:G:403:ASN:O	1:G:407:SER:HB3	2.13	0.48
1:G:588:VAL:HG23	1:G:621:LEU:HD12	1.94	0.48
1:G:1410:GLU:H	1:G:1410:GLU:CD	2.18	0.48
2:H:116:LYS:HB3	2:H:119:LEU:HD12	1.96	0.48
1:A:249:ARG:HG2	1:A:838:TYR:OH	2.13	0.48
1:A:513:PRO:HD3	1:A:531:GLU:HG2	1.95	0.48
1:A:915:GLN:HA	1:A:918:VAL:HG22	1.96	0.48
1:A:1064:LEU:HD21	1:A:1102:PRO:O	2.13	0.48
1:C:55:ASP:CG	1:C:58:ASP:HB3	2.38	0.48
1:C:263:VAL:O	1:C:324:SER:HA	2.13	0.48
1:C:478:ASP:CG	1:C:486:LEU:HG	2.38	0.48
1:C:1052:GLU:OE2	1:C:1151:ARG:NH1	2.34	0.48
1:C:1593:PRO:HB3	1:C:1630:TYR:CE2	2.48	0.48
1:C:1627:VAL:HG12	1:C:1683:LEU:HD11	1.95	0.48
1:C:1786:LEU:HB2	1:C:1790:TYR:CE1	2.48	0.48
2:D:84:LEU:HB3	2:D:120:ARG:HD3	1.96	0.48
1:E:348:GLN:NE2	1:E:644:PRO:HD3	2.27	0.48
1:E:910:GLU:HG2	1:E:911:GLU:CD	2.38	0.48
1:E:1619:CYS:O	1:E:1622:HIS:HB2	2.14	0.48
1:E:1650:ILE:O	1:E:1845:TYR:OH	2.31	0.48
1:E:1786:LEU:HB2	1:E:1790:TYR:CE1	2.49	0.48
1:E:2010:LEU:O	1:E:2014:LEU:HD23	2.14	0.48
1:G:398:ALA:HB3	1:G:479:MET:SD	2.53	0.48
1:G:588:VAL:HB	1:G:622:HIS:ND1	2.28	0.48
1:G:907:LEU:HD22	1:G:945:HIS:CD2	2.48	0.48
1:G:1285:LEU:HD22	1:G:1396:LEU:HD11	1.96	0.48

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1520:PHE:HE2	1:G:1522:GLU:HB3	1.77	0.48
1:G:1523:GLU:O	1:G:1526:ARG:HB3	2.14	0.48
1:G:1593:PRO:HB3	1:G:1630:TYR:CE2	2.48	0.48
1:G:1728:GLY:HA2	1:G:1731:GLN:OE1	2.13	0.48
1:G:1780:ALA:N	2:H:162:GLN:OE1	2.46	0.48
1:G:1894:ARG:NH1	1:G:1896:GLU:HB2	2.29	0.48
1:G:1943:ASN:HB3	2:H:36:VAL:O	2.13	0.48
1:A:76:VAL:HB	1:A:1061:CYS:H	1.78	0.48
1:A:288:GLU:O	1:A:289:LYS:HG2	2.13	0.48
1:A:1466:LEU:HD13	1:A:1485:LEU:HD23	1.96	0.48
1:A:1851:LEU:HB2	1:A:1875:LEU:HD23	1.94	0.48
1:C:114:GLU:HA	1:C:117:ILE:HG22	1.95	0.48
1:C:287:ARG:NH1	1:C:333:SER:OG	2.40	0.48
1:C:348:GLN:NE2	1:C:644:PRO:HD3	2.27	0.48
1:C:1041:ARG:O	1:C:1044:PHE:HB3	2.13	0.48
1:C:1154:GLU:O	1:C:1157:VAL:N	2.47	0.48
1:C:1565:THR:HA	1:C:1568:MET:HE3	1.96	0.48
1:E:259:GLN:H	1:E:329:VAL:H	1.62	0.48
1:E:317:ALA:HB3	1:E:320:THR:HG23	1.96	0.48
2:F:102:ARG:NE	2:F:105:CYS:O	2.44	0.48
1:G:291:LYS:NZ	1:G:293:SER:O	2.42	0.48
1:G:513:PRO:HD3	1:G:531:GLU:HG2	1.95	0.48
1:G:980:ILE:HD13	1:G:1024:VAL:HA	1.96	0.48
1:G:1178:ARG:NH2	1:G:1243:CYS:O	2.47	0.48
1:G:1484:SER:O	1:G:1488:LEU:HD13	2.13	0.48
1:G:1846:GLY:HA2	1:G:1881:ALA:HB1	1.94	0.48
2:H:124:ASP:O	2:H:128:LYS:HG2	2.13	0.48
1:A:478:ASP:CG	1:A:486:LEU:HG	2.38	0.48
1:A:1627:VAL:HG12	1:A:1683:LEU:HD11	1.95	0.48
1:A:1786:LEU:HB2	1:A:1790:TYR:CE1	2.49	0.48
1:A:1894:ARG:NH1	1:A:1896:GLU:HB2	2.29	0.48
2:B:86:SER:O	2:B:89:SER:OG	2.25	0.48
1:C:513:PRO:HD3	1:C:531:GLU:HG2	1.95	0.48
1:C:683:PRO:O	1:C:684:SER:OG	2.28	0.48
1:C:1008:VAL:HG22	1:C:1009:ASP:N	2.29	0.48
1:C:1169:LEU:HD21	1:C:1261:LEU:HD21	1.96	0.48
1:C:1503:LYS:HB3	1:C:1554:LEU:HD21	1.96	0.48
1:C:1800:GLU:O	1:C:1820:ILE:HG22	2.13	0.48
1:C:1894:ARG:NH1	1:C:1896:GLU:HB2	2.29	0.48
1:C:1934:LEU:HD21	1:C:1984:ALA:HB1	1.95	0.48
1:E:208:GLU:N	1:E:208:GLU:OE1	2.46	0.48

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:403:ASN:O	1:E:407:SER:HB3	2.14	0.48
1:E:1288:LEU:HD13	1:E:1396:LEU:CD2	2.43	0.48
1:E:1399:ILE:O	1:E:1402:THR:HB	2.14	0.48
1:E:1617:ALA:O	1:E:1621:VAL:HG23	2.13	0.48
1:G:76:VAL:HB	1:G:1061:CYS:H	1.78	0.48
1:G:125:ARG:NH1	1:G:1003:ASP:HA	2.26	0.48
1:G:317:ALA:HB3	1:G:320:THR:HG23	1.96	0.48
1:G:478:ASP:CG	1:G:486:LEU:HG	2.38	0.48
1:G:635:PHE:CD1	1:G:657:THR:HG23	2.44	0.48
1:G:910:GLU:HG2	1:G:911:GLU:CD	2.38	0.48
1:G:1008:VAL:HG22	1:G:1009:ASP:N	2.29	0.48
1:G:1154:GLU:O	1:G:1157:VAL:N	2.47	0.48
1:G:1803:LYS:O	2:H:28:PHE:CE2	2.67	0.48
1:G:1999:TYR:HA	1:G:2002:GLU:CG	2.44	0.48
1:A:208:GLU:OE1	1:A:208:GLU:N	2.47	0.48
1:A:1169:LEU:HD21	1:A:1261:LEU:HD21	1.96	0.48
1:C:317:ALA:HB3	1:C:320:THR:HG23	1.96	0.48
1:C:658:TRP:CH2	1:C:690:PRO:HA	2.49	0.48
1:C:726:LYS:HD3	1:C:760:SER:HB3	1.95	0.48
1:C:1178:ARG:NH2	1:C:1243:CYS:O	2.47	0.48
1:C:1433:LEU:O	1:C:1437:LEU:HG	2.13	0.48
1:C:1907:GLU:HA	1:C:1910:GLN:HG2	1.95	0.48
1:E:1627:VAL:HG12	1:E:1683:LEU:HD11	1.95	0.48
1:G:328:SER:O	1:G:534:GLU:HG3	2.13	0.48
1:G:551:LEU:HD21	1:G:621:LEU:HD23	1.95	0.48
1:G:980:ILE:HG22	1:G:1027:ARG:NE	2.18	0.48
1:G:1407:GLU:HG2	1:G:1408:ALA:N	2.29	0.48
1:G:1786:LEU:HB2	1:G:1790:TYR:CE1	2.48	0.48
1:A:317:ALA:HB3	1:A:320:THR:HG23	1.96	0.48
1:A:1484:SER:O	1:A:1488:LEU:HD13	2.13	0.48
1:A:1617:ALA:HA	1:A:1620:MET:HG2	1.95	0.48
1:A:1620:MET:O	1:A:1686:LEU:HD21	2.13	0.48
1:A:1999:TYR:HA	1:A:2002:GLU:CG	2.44	0.48
1:C:125:ARG:NH1	1:C:1003:ASP:HA	2.26	0.48
1:C:551:LEU:HD21	1:C:621:LEU:HD23	1.95	0.48
1:C:1846:GLY:HA2	1:C:1881:ALA:HB1	1.94	0.48
1:C:1851:LEU:HB2	1:C:1875:LEU:HD23	1.94	0.48
1:C:1999:TYR:HA	1:C:2002:GLU:CG	2.44	0.48
1:E:392:MET:HA	1:E:392:MET:HE2	1.96	0.48
1:E:980:ILE:HD13	1:E:1024:VAL:HA	1.95	0.48
1:E:1058:ASN:HD21	1:E:1109:LEU:HB2	1.79	0.48

*Continued on next page...*



*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1474:ILE:O	1:E:1478:ARG:HG3	2.14	0.48
1:E:1484:SER:O	1:E:1488:LEU:HD13	2.13	0.48
1:E:1593:PRO:HB3	1:E:1630:TYR:CE2	2.48	0.48
2:F:124:ASP:O	2:F:128:LYS:HG2	2.13	0.48
1:G:658:TRP:CH2	1:G:690:PRO:HA	2.49	0.48
1:G:1499:PHE:O	1:G:1503:LYS:N	2.32	0.48
1:G:1503:LYS:HB3	1:G:1554:LEU:HD21	1.96	0.48
1:G:1693:TYR:O	1:G:1697:GLY:N	2.29	0.48
1:A:726:LYS:HD3	1:A:760:SER:HB3	1.94	0.47
1:A:1289:TYR:CD2	1:A:1419:VAL:HG12	2.49	0.47
1:A:2010:LEU:O	1:A:2014:LEU:HD23	2.14	0.47
2:B:102:ARG:NE	2:B:105:CYS:O	2.44	0.47
1:C:1028:LEU:HD22	1:C:1041:ARG:CZ	2.44	0.47
1:C:1934:LEU:O	1:C:1938:VAL:HG12	2.14	0.47
2:D:4:ILE:HD12	2:D:173:ILE:HD12	1.95	0.47
1:E:551:LEU:HD21	1:E:621:LEU:HD23	1.95	0.47
1:E:1710:LEU:O	1:E:1713:ILE:HG22	2.14	0.47
1:E:1772:LYS:HZ3	1:E:1883:PRO:HA	1.79	0.47
1:E:1934:LEU:O	1:E:1938:VAL:HG12	2.14	0.47
1:G:141:THR:HA	1:G:144:GLU:HG3	1.96	0.47
1:G:400:HIS:HE1	1:G:402:ALA:HB3	1.77	0.47
1:G:1559:HIS:O	1:G:1563:THR:HG23	2.14	0.47
1:G:1740:GLN:HE21	1:G:1746:ARG:H	1.61	0.47
1:G:2010:LEU:O	1:G:2014:LEU:HD23	2.14	0.47
1:A:392:MET:HE2	1:A:392:MET:HA	1.96	0.47
1:A:549:ASN:HA	1:A:715:SER:HA	1.96	0.47
1:A:1800:GLU:O	1:A:1820:ILE:HG22	2.13	0.47
1:A:1810:LYS:HD2	1:A:1813:LEU:HB2	1.95	0.47
1:A:1909:MET:HA	1:A:1912:LYS:CG	2.42	0.47
1:A:1934:LEU:HD21	1:A:1984:ALA:HB1	1.95	0.47
1:C:141:THR:HA	1:C:144:GLU:HG3	1.96	0.47
1:C:392:MET:HE2	1:C:392:MET:HA	1.96	0.47
1:C:621:LEU:HD22	1:C:633:LEU:HD11	1.95	0.47
1:C:727:PHE:HB2	1:C:760:SER:HB2	1.96	0.47
1:C:907:LEU:HD22	1:C:945:HIS:CD2	2.48	0.47
1:C:1058:ASN:HD21	1:C:1109:LEU:HB2	1.79	0.47
1:C:1466:LEU:HD13	1:C:1485:LEU:HD23	1.96	0.47
2:D:116:LYS:HB3	2:D:119:LEU:HD12	1.96	0.47
1:E:1559:HIS:O	1:E:1563:THR:HG23	2.14	0.47
1:E:1653:ASN:HD21	1:E:1848:ARG:NH2	2.13	0.47
1:E:1999:TYR:HA	1:E:2002:GLU:CG	2.44	0.47

*Continued on next page...*



*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1289:TYR:CD2	1:G:1419:VAL:HG12	2.49	0.47
1:G:1399:ILE:O	1:G:1402:THR:HB	2.14	0.47
1:G:1773:GLU:HB3	1:G:1777:THR:HG21	1.97	0.47
1:G:1934:LEU:HD21	1:G:1984:ALA:HB1	1.95	0.47
1:A:106:ASP:OD1	1:A:107:ALA:N	2.46	0.47
1:A:141:THR:HA	1:A:144:GLU:HG3	1.96	0.47
1:A:1505:GLN:HA	1:A:1508:MET:CG	2.43	0.47
1:C:141:THR:O	1:C:144:GLU:HG3	2.15	0.47
1:C:254:ARG:C	1:C:545:THR:HG21	2.40	0.47
1:C:1407:GLU:HG2	1:C:1408:ALA:N	2.28	0.47
1:C:1728:GLY:HA2	1:C:1731:GLN:OE1	2.13	0.47
1:E:141:THR:HA	1:E:144:GLU:HG3	1.96	0.47
1:E:141:THR:O	1:E:144:GLU:HG3	2.15	0.47
1:E:328:SER:O	1:E:534:GLU:HG3	2.13	0.47
1:E:346:LEU:HA	1:E:392:MET:HG2	1.96	0.47
1:E:478:ASP:CG	1:E:486:LEU:HG	2.38	0.47
1:E:555:PRO:HB3	1:E:707:PHE:HZ	1.78	0.47
1:E:1169:LEU:HD21	1:E:1261:LEU:HD21	1.96	0.47
1:E:1285:LEU:HD22	1:E:1396:LEU:HD11	1.95	0.47
1:E:1496:GLY:C	1:E:1498:ASN:H	2.22	0.47
1:E:1602:ASN:HB3	1:E:1606:LYS:NZ	2.30	0.47
1:E:1690:ALA:HA	1:E:1693:TYR:CD1	2.49	0.47
1:G:269:LYS:O	1:G:495:GLN:N	2.46	0.47
1:G:1262:LYS:HG2	1:G:1263:ASN:N	2.27	0.47
1:G:1502:VAL:HA	1:G:1505:GLN:CD	2.40	0.47
1:G:1710:LEU:O	1:G:1713:ILE:HG22	2.14	0.47
1:G:1907:GLU:HA	1:G:1910:GLN:HG2	1.95	0.47
1:A:203:LEU:HD13	1:A:1480:HIS:CD2	2.50	0.47
1:A:224:ARG:N	1:A:224:ARG:HD2	2.29	0.47
1:A:297:TYR:CE1	1:A:592:LYS:HE2	2.49	0.47
1:A:390:TYR:O	1:A:391:ARG:NH1	2.44	0.47
1:A:658:TRP:CH2	1:A:690:PRO:HA	2.49	0.47
1:A:1014:PHE:O	1:A:1018:ARG:HG3	2.15	0.47
1:A:1154:GLU:O	1:A:1157:VAL:N	2.47	0.47
1:A:1523:GLU:O	1:A:1526:ARG:HB3	2.14	0.47
1:A:1750:THR:C	1:A:1751:TYR:HD2	2.22	0.47
1:A:1934:LEU:O	1:A:1938:VAL:HG12	2.14	0.47
2:B:124:ASP:O	2:B:128:LYS:HG2	2.13	0.47
2:B:165:LEU:O	2:B:168:VAL:HB	2.15	0.47
1:C:203:LEU:HD13	1:C:1480:HIS:CD2	2.50	0.47
1:C:590:PHE:HB2	1:C:620:LYS:HD2	1.97	0.47

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1773:GLU:HB3	1:C:1777:THR:HG21	1.97	0.47
1:E:1502:VAL:HA	1:E:1505:GLN:CD	2.40	0.47
1:E:1738:MET:HA	1:E:1741:SER:OG	2.15	0.47
1:E:1782:ILE:HG13	1:E:1783:SER:N	2.30	0.47
1:G:727:PHE:HB2	1:G:760:SER:HB2	1.97	0.47
1:G:1058:ASN:HD21	1:G:1109:LEU:HB2	1.79	0.47
1:G:1169:LEU:HD21	1:G:1261:LEU:HD21	1.96	0.47
1:G:1565:THR:HA	1:G:1568:MET:HE3	1.96	0.47
1:G:1620:MET:O	1:G:1686:LEU:HD21	2.13	0.47
1:G:1738:MET:HA	1:G:1741:SER:OG	2.15	0.47
1:A:1128:ALA:HB1	1:A:1131:LEU:HB2	1.97	0.47
1:C:403:ASN:O	1:C:407:SER:HB3	2.14	0.47
1:C:927:ILE:O	1:C:931:ALA:CB	2.59	0.47
1:C:1043:GLU:HA	1:C:1046:ARG:CG	2.44	0.47
1:C:1496:GLY:C	1:C:1498:ASN:H	2.22	0.47
1:C:1850:PHE:CE2	1:C:1882:PHE:HE2	2.33	0.47
1:E:203:LEU:HD13	1:E:1480:HIS:CD2	2.50	0.47
1:E:590:PHE:HB2	1:E:620:LYS:HD2	1.97	0.47
1:E:621:LEU:HD22	1:E:633:LEU:HD11	1.95	0.47
1:E:658:TRP:CH2	1:E:690:PRO:HA	2.49	0.47
1:E:1154:GLU:O	1:E:1157:VAL:N	2.47	0.47
1:E:1289:TYR:CD2	1:E:1419:VAL:HG12	2.49	0.47
1:E:1433:LEU:O	1:E:1437:LEU:HG	2.13	0.47
1:E:1466:LEU:HD13	1:E:1485:LEU:HD23	1.96	0.47
1:E:1909:MET:HA	1:E:1912:LYS:CG	2.42	0.47
2:F:116:LYS:HB3	2:F:119:LEU:HD12	1.96	0.47
1:G:208:GLU:OE1	1:G:208:GLU:N	2.47	0.47
1:G:297:TYR:CE1	1:G:592:LYS:HE2	2.49	0.47
1:G:1617:ALA:HA	1:G:1620:MET:HG2	1.95	0.47
2:H:84:LEU:HB3	2:H:120:ARG:HD3	1.96	0.47
1:A:457:THR:HG22	1:A:496:LEU:H	1.80	0.47
1:A:1158:LYS:HD3	1:A:1158:LYS:N	2.30	0.47
1:A:1847:LEU:H	1:A:1882:PHE:HB2	1.80	0.47
2:B:132:LYS:HZ2	2:B:134:LEU:HD13	1.79	0.47
1:C:297:TYR:CE1	1:C:592:LYS:HE2	2.49	0.47
1:C:400:HIS:HE1	1:C:402:ALA:HB3	1.77	0.47
1:C:555:PRO:HB3	1:C:707:PHE:HZ	1.78	0.47
1:C:980:ILE:HD13	1:C:1024:VAL:HA	1.95	0.47
1:C:1269:LEU:HA	1:C:1272:TRP:HB3	1.97	0.47
1:C:1289:TYR:CD2	1:C:1419:VAL:HG12	2.49	0.47
1:C:1867:PRO:HA	1:C:1953:PHE:HZ	1.80	0.47

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1909:MET:HG3	1:C:1912:LYS:HD3	1.97	0.47
2:D:165:LEU:O	2:D:168:VAL:HB	2.15	0.47
1:E:56:PHE:CE2	1:E:1010:ARG:CZ	2.98	0.47
1:E:224:ARG:HD2	1:E:224:ARG:N	2.29	0.47
1:E:772:LEU:HD23	1:E:772:LEU:HA	1.76	0.47
1:E:1008:VAL:HG22	1:E:1009:ASP:N	2.29	0.47
1:E:1437:LEU:C	1:E:1440:GLN:HE21	2.20	0.47
1:G:203:LEU:HD13	1:G:1480:HIS:CD2	2.50	0.47
1:G:224:ARG:N	1:G:224:ARG:HD2	2.29	0.47
1:G:268:LEU:HD12	1:G:496:LEU:HD13	1.97	0.47
1:G:775:PHE:CD2	1:G:777:HIS:CE1	3.03	0.47
1:G:915:GLN:HA	1:G:918:VAL:HG22	1.96	0.47
1:G:1028:LEU:HD22	1:G:1041:ARG:CZ	2.44	0.47
1:G:1117:LEU:O	1:G:1121:LEU:HG	2.15	0.47
1:G:1491:GLN:O	1:G:1495:ILE:HG12	2.15	0.47
1:G:1653:ASN:HD21	1:G:1848:ARG:NH2	2.12	0.47
1:G:1810:LYS:HD2	1:G:1813:LEU:HB2	1.95	0.47
1:A:287:ARG:NH1	1:A:333:SER:OG	2.40	0.47
1:A:403:ASN:CA	1:G:407:SER:HA	2.44	0.47
1:A:635:PHE:CD1	1:A:657:THR:HG23	2.44	0.47
1:A:980:ILE:HD13	1:A:1024:VAL:HA	1.96	0.47
1:A:1043:GLU:HA	1:A:1046:ARG:CG	2.44	0.47
1:A:1157:VAL:O	1:A:1161:VAL:HG23	2.15	0.47
1:A:1178:ARG:NH2	1:A:1243:CYS:O	2.47	0.47
1:A:1407:GLU:HG2	1:A:1408:ALA:N	2.29	0.47
1:A:1565:THR:HA	1:A:1568:MET:HE3	1.96	0.47
1:A:1738:MET:HA	1:A:1741:SER:OG	2.15	0.47
1:C:105:LEU:HD22	1:C:109:VAL:HG11	1.97	0.47
1:C:915:GLN:HA	1:C:918:VAL:HG22	1.96	0.47
1:C:1117:LEU:O	1:C:1121:LEU:HG	2.15	0.47
1:C:1288:LEU:HD13	1:C:1396:LEU:CD2	2.43	0.47
1:C:1690:ALA:HA	1:C:1693:TYR:CD1	2.49	0.47
1:C:1710:LEU:O	1:C:1713:ILE:HG22	2.14	0.47
1:C:1738:MET:HA	1:C:1741:SER:OG	2.15	0.47
1:C:1750:THR:C	1:C:1751:TYR:HD2	2.22	0.47
1:C:2010:LEU:O	1:C:2014:LEU:HD23	2.14	0.47
1:E:254:ARG:C	1:E:545:THR:HG21	2.39	0.47
1:E:346:LEU:HB2	1:E:392:MET:HE3	1.97	0.47
1:E:478:ASP:OD2	1:E:486:LEU:HG	2.15	0.47
1:E:1043:GLU:HA	1:E:1046:ARG:CG	2.44	0.47
1:E:1128:ALA:HB1	1:E:1131:LEU:HB2	1.97	0.47

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1407:GLU:HG2	1:E:1408:ALA:N	2.28	0.47
1:E:1503:LYS:HB3	1:E:1554:LEU:HD21	1.96	0.47
1:E:1800:GLU:O	1:E:1820:ILE:HG22	2.13	0.47
1:E:1850:PHE:CE2	1:E:1882:PHE:HE2	2.33	0.47
2:F:132:LYS:HD2	2:F:132:LYS:O	2.15	0.47
1:G:114:GLU:HA	1:G:117:ILE:HG22	1.95	0.47
1:G:231:LEU:O	1:G:234:LEU:N	2.40	0.47
1:G:346:LEU:HA	1:G:392:MET:HG2	1.96	0.47
1:G:478:ASP:OD2	1:G:486:LEU:HG	2.15	0.47
1:G:1055:VAL:HG21	1:G:1152:TYR:CZ	2.50	0.47
1:G:1278:LEU:HB2	1:G:1279:PRO:HD3	1.97	0.47
1:G:1407:GLU:OE1	1:G:1407:GLU:N	2.48	0.47
1:G:1466:LEU:HD13	1:G:1485:LEU:HD23	1.96	0.47
1:G:1750:THR:C	1:G:1751:TYR:HD2	2.22	0.47
1:G:1810:LYS:NZ	1:G:1813:LEU:O	2.48	0.47
1:G:1909:MET:HG3	1:G:1912:LYS:HD3	1.97	0.47
1:G:1934:LEU:O	1:G:1938:VAL:HG12	2.14	0.47
1:A:568:ARG:HD2	1:A:609:HIS:CD2	2.49	0.47
1:A:1028:LEU:HD22	1:A:1041:ARG:CZ	2.44	0.47
1:A:1055:VAL:HG21	1:A:1152:TYR:CZ	2.50	0.47
1:A:1474:ILE:O	1:A:1478:ARG:HG3	2.14	0.47
1:A:1502:VAL:HA	1:A:1505:GLN:CD	2.40	0.47
1:A:1503:LYS:HB3	1:A:1554:LEU:HD21	1.96	0.47
1:A:1602:ASN:HB3	1:A:1606:LYS:NZ	2.30	0.47
1:A:1810:LYS:NZ	1:A:1813:LEU:O	2.48	0.47
2:B:53:LEU:HD21	2:B:173:ILE:HD11	1.96	0.47
1:C:268:LEU:HD12	1:C:496:LEU:HD13	1.97	0.47
1:C:478:ASP:OD2	1:C:486:LEU:HG	2.15	0.47
1:C:775:PHE:CD2	1:C:777:HIS:CE1	3.03	0.47
1:C:1804:ASP:OD1	1:C:1806:ASN:N	2.45	0.47
1:E:568:ARG:HD2	1:E:609:HIS:CD2	2.49	0.47
1:E:1407:GLU:OE1	1:E:1407:GLU:N	2.48	0.47
1:E:1804:ASP:OD1	1:E:1806:ASN:N	2.45	0.47
1:G:346:LEU:HB2	1:G:392:MET:HE3	1.97	0.47
1:G:1496:GLY:C	1:G:1498:ASN:H	2.22	0.47
1:G:1619:CYS:O	1:G:1622:HIS:HB2	2.14	0.47
1:G:1847:LEU:H	1:G:1882:PHE:HB2	1.80	0.47
2:H:132:LYS:HZ2	2:H:134:LEU:HD13	1.79	0.47
2:H:132:LYS:O	2:H:132:LYS:HD2	2.15	0.47
2:H:165:LEU:O	2:H:168:VAL:HB	2.15	0.47
1:A:254:ARG:C	1:A:545:THR:HG21	2.40	0.47

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1117:LEU:O	1:A:1121:LEU:HG	2.15	0.47
1:A:1265:GLU:HG3	1:A:1268:LEU:HD22	1.97	0.47
1:A:1288:LEU:HD13	1:A:1396:LEU:CD2	2.43	0.47
1:A:1371:LYS:HA	1:A:1374:MET:HE2	1.97	0.47
1:A:1559:HIS:O	1:A:1563:THR:HG23	2.14	0.47
1:A:1619:CYS:O	1:A:1622:HIS:HB2	2.14	0.47
1:A:1782:ILE:HG13	1:A:1783:SER:N	2.30	0.47
1:C:269:LYS:O	1:C:495:GLN:N	2.46	0.47
1:C:549:ASN:HA	1:C:715:SER:HA	1.96	0.47
1:C:1014:PHE:O	1:C:1018:ARG:HG3	2.15	0.47
1:C:1779:LEU:HD13	2:D:26:ASN:OD1	2.14	0.47
1:C:2006:ASN:HA	1:C:2009:ARG:HG2	1.97	0.47
1:E:297:TYR:CE1	1:E:592:LYS:HE2	2.49	0.47
1:E:1028:LEU:HD22	1:E:1041:ARG:CZ	2.44	0.47
1:E:1269:LEU:HA	1:E:1272:TRP:HB3	1.97	0.47
1:E:1523:GLU:O	1:E:1526:ARG:HB3	2.14	0.47
1:E:1620:MET:HE1	1:E:1686:LEU:O	2.15	0.47
2:F:53:LEU:HD21	2:F:173:ILE:HD11	1.96	0.47
2:F:165:LEU:O	2:F:168:VAL:HB	2.15	0.47
1:G:254:ARG:C	1:G:545:THR:HG21	2.40	0.47
1:G:286:VAL:HG22	1:G:335:ASP:HB3	1.95	0.47
1:G:1043:GLU:HA	1:G:1046:ARG:CG	2.44	0.47
1:G:1942:VAL:HB	2:H:38:ASP:OD1	2.15	0.47
2:H:44:VAL:HG12	2:H:45:MET:N	2.30	0.47
1:A:141:THR:O	1:A:144:GLU:HG3	2.15	0.47
1:A:1264:THR:CG2	1:A:1268:LEU:HD21	2.45	0.47
1:A:1269:LEU:HA	1:A:1272:TRP:HB3	1.97	0.47
1:A:1772:LYS:HZ3	1:A:1883:PRO:HA	1.80	0.47
1:A:1776:ILE:HD11	2:B:45:MET:HG2	1.97	0.47
2:B:44:VAL:HG12	2:B:45:MET:N	2.30	0.47
2:B:84:LEU:HB3	2:B:120:ARG:HD3	1.96	0.47
2:B:132:LYS:O	2:B:132:LYS:HD2	2.15	0.47
1:C:509:PHE:CE2	1:C:523:ASP:HB2	2.49	0.47
1:C:1055:VAL:HG21	1:C:1152:TYR:CZ	2.50	0.47
1:C:1278:LEU:HB2	1:C:1279:PRO:HD3	1.97	0.47
1:C:1523:GLU:O	1:C:1526:ARG:HB3	2.14	0.47
1:C:1710:LEU:HG	1:C:1714:LEU:CD1	2.45	0.47
2:D:132:LYS:HD2	2:D:132:LYS:O	2.15	0.47
1:E:775:PHE:CD2	1:E:777:HIS:CE1	3.03	0.47
1:E:1142:LEU:HG	1:E:1146:HIS:CD2	2.50	0.47
1:E:1178:ARG:NH2	1:E:1243:CYS:O	2.47	0.47

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:2006:ASN:HA	1:E:2009:ARG:HG2	1.97	0.47
1:E:2008:CYS:O	1:E:2011:ARG:N	2.48	0.47
1:G:141:THR:O	1:G:144:GLU:HG3	2.14	0.47
1:G:1014:PHE:O	1:G:1018:ARG:HG3	2.15	0.47
1:G:1264:THR:CG2	1:G:1268:LEU:HD21	2.45	0.47
1:G:1690:ALA:HA	1:G:1693:TYR:CD1	2.49	0.47
1:G:2008:CYS:O	1:G:2011:ARG:N	2.48	0.47
1:A:402:ALA:HB1	1:A:446:PHE:CZ	2.50	0.46
1:A:1008:VAL:HG22	1:A:1009:ASP:N	2.29	0.46
1:A:1285:LEU:HD22	1:A:1396:LEU:HD11	1.96	0.46
1:A:1297:TYR:CZ	1:A:1299:GLY:HA2	2.50	0.46
1:A:1491:GLN:O	1:A:1495:ILE:HG12	2.15	0.46
1:A:1600:LEU:HD11	1:A:1619:CYS:O	2.16	0.46
1:A:1710:LEU:HG	1:A:1714:LEU:CD1	2.45	0.46
1:C:402:ALA:HB1	1:C:446:PHE:CZ	2.50	0.46
1:C:568:ARG:HD2	1:C:609:HIS:CD2	2.50	0.46
1:C:1502:VAL:HA	1:C:1505:GLN:CD	2.40	0.46
1:C:1602:ASN:HB3	1:C:1606:LYS:NZ	2.30	0.46
1:C:1653:ASN:HD21	1:C:1848:ARG:NH2	2.12	0.46
1:C:1791:THR:O	1:C:1795:GLY:N	2.44	0.46
2:D:52:ASN:C	2:D:53:LEU:HD12	2.40	0.46
1:E:128:GLN:O	1:E:131:SER:N	2.40	0.46
1:E:326:ILE:O	1:E:532:ILE:N	2.48	0.46
1:E:1750:THR:C	1:E:1751:TYR:HD2	2.22	0.46
1:G:457:THR:HG22	1:G:496:LEU:H	1.80	0.46
1:G:580:GLU:OE2	1:G:684:SER:N	2.35	0.46
1:G:1547:PHE:O	1:G:1551:VAL:HG23	2.16	0.46
1:A:281:LEU:HB2	1:A:296:PHE:HB3	1.98	0.46
1:A:286:VAL:HG12	1:A:473:PHE:HD1	1.81	0.46
1:A:775:PHE:CD2	1:A:777:HIS:CE1	3.03	0.46
1:A:1142:LEU:HG	1:A:1146:HIS:CD2	2.50	0.46
2:B:52:ASN:C	2:B:53:LEU:HD12	2.40	0.46
1:C:405:VAL:HA	1:C:449:PHE:CD2	2.50	0.46
1:C:1474:ILE:O	1:C:1478:ARG:HG3	2.14	0.46
1:C:1619:CYS:O	1:C:1622:HIS:HB2	2.14	0.46
1:C:1847:LEU:H	1:C:1882:PHE:HB2	1.80	0.46
1:E:155:GLU:HB2	1:E:1473:ARG:HH22	1.81	0.46
1:E:1410:GLU:H	1:E:1410:GLU:CD	2.18	0.46
1:G:155:GLU:HB2	1:G:1473:ARG:HH22	1.81	0.46
1:G:392:MET:HE2	1:G:392:MET:HA	1.96	0.46
1:G:1090:ASP:OD2	1:G:1093:VAL:HG22	2.16	0.46

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1602:ASN:HB3	1:G:1606:LYS:NZ	2.29	0.46
1:G:1681:LEU:HA	1:G:1684:VAL:HB	1.97	0.46
1:G:2014:LEU:HD13	1:G:2017:LEU:HD12	1.98	0.46
1:A:94:THR:OG1	1:A:96:GLU:O	2.30	0.46
1:A:344:LYS:N	1:A:392:MET:O	2.49	0.46
1:A:405:VAL:HA	1:A:449:PHE:CD2	2.50	0.46
1:A:1090:ASP:OD2	1:A:1093:VAL:HG22	2.16	0.46
1:A:1453:GLU:OE1	1:A:1453:GLU:N	2.32	0.46
1:A:1496:GLY:C	1:A:1498:ASN:H	2.22	0.46
1:A:1908:ASP:HA	1:A:1911:LYS:HE2	1.98	0.46
1:A:1999:TYR:CE2	2:B:67:LEU:HA	2.51	0.46
2:B:132:LYS:O	2:B:133:LYS:HG2	2.16	0.46
1:C:259:GLN:H	1:C:329:VAL:H	1.62	0.46
1:C:1259:TRP:CE2	1:C:1263:ASN:ND2	2.84	0.46
1:C:1681:LEU:HA	1:C:1684:VAL:HB	1.97	0.46
2:D:72:TYR:OH	2:D:100:GLU:HB3	2.16	0.46
1:E:402:ALA:HB1	1:E:446:PHE:CZ	2.50	0.46
1:E:784:VAL:O	1:E:788:ILE:HG12	2.15	0.46
1:E:1410:GLU:HG2	1:E:1411:SER:N	2.30	0.46
1:E:1413:LEU:HD11	1:E:1446:LYS:HZ1	1.80	0.46
1:E:1491:GLN:O	1:E:1495:ILE:HG12	2.14	0.46
1:E:1677:HIS:O	1:E:1679:THR:N	2.40	0.46
1:E:1681:LEU:HA	1:E:1684:VAL:HB	1.97	0.46
1:E:1802:ILE:HB	1:E:1821:GLN:HA	1.98	0.46
2:F:84:LEU:HB3	2:F:120:ARG:HD3	1.96	0.46
1:G:286:VAL:HG12	1:G:473:PHE:HD1	1.81	0.46
1:G:402:ALA:HB1	1:G:446:PHE:CZ	2.50	0.46
1:G:1474:ILE:O	1:G:1478:ARG:HG3	2.14	0.46
1:G:1782:ILE:HG13	1:G:1783:SER:N	2.30	0.46
1:G:2006:ASN:HA	1:G:2009:ARG:HG2	1.97	0.46
1:A:234:LEU:C	1:A:1384:LEU:HD12	2.40	0.46
1:A:259:GLN:H	1:A:329:VAL:H	1.62	0.46
1:A:784:VAL:O	1:A:788:ILE:HG12	2.15	0.46
1:A:1121:LEU:HA	1:A:1132:HIS:CD2	2.50	0.46
1:A:1257:VAL:O	1:A:1260:VAL:HG12	2.16	0.46
1:A:1653:ASN:HD21	1:A:1848:ARG:NH2	2.12	0.46
1:A:1690:ALA:HA	1:A:1693:TYR:CD1	2.49	0.46
2:B:64:TYR:CG	2:B:67:LEU:HD21	2.51	0.46
1:C:234:LEU:C	1:C:1384:LEU:HD12	2.40	0.46
1:C:346:LEU:HA	1:C:392:MET:HG2	1.96	0.46
1:C:925:GLU:O	1:C:929:GLN:HG3	2.16	0.46

*Continued on next page...*



*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1491:GLN:O	1:C:1495:ILE:HG12	2.15	0.46
1:C:1501:ARG:HE	1:C:1671:GLY:HA2	1.80	0.46
1:C:1573:GLU:H	1:C:1578:LEU:HD11	1.81	0.46
1:C:1620:MET:HE1	1:C:1686:LEU:O	2.15	0.46
1:C:1909:MET:HE1	1:C:1974:PHE:CD1	2.46	0.46
1:C:2008:CYS:O	1:C:2011:ARG:N	2.48	0.46
1:C:2014:LEU:HD13	1:C:2017:LEU:HD12	1.98	0.46
1:E:234:LEU:C	1:E:1384:LEU:HD12	2.40	0.46
1:E:1158:LYS:N	1:E:1158:LYS:HD3	2.30	0.46
1:E:1264:THR:CG2	1:E:1268:LEU:HD21	2.45	0.46
1:E:1265:GLU:HG3	1:E:1268:LEU:HD22	1.97	0.46
1:E:1622:HIS:HB3	1:E:1657:GLU:CD	2.41	0.46
1:E:1847:LEU:H	1:E:1882:PHE:HB2	1.80	0.46
1:E:1867:PRO:HA	1:E:1953:PHE:HZ	1.80	0.46
1:E:1912:LYS:HE3	2:F:37:PHE:CE2	2.51	0.46
1:G:259:GLN:H	1:G:329:VAL:H	1.62	0.46
1:G:590:PHE:HB2	1:G:620:LYS:HD2	1.97	0.46
1:G:956:ARG:HA	1:G:959:ARG:CG	2.41	0.46
1:G:1142:LEU:HG	1:G:1146:HIS:CD2	2.50	0.46
1:G:1257:VAL:O	1:G:1260:VAL:HG12	2.16	0.46
1:G:1269:LEU:HA	1:G:1272:TRP:HB3	1.96	0.46
1:G:1297:TYR:CZ	1:G:1299:GLY:HA2	2.50	0.46
1:G:1600:LEU:HD11	1:G:1619:CYS:O	2.15	0.46
1:G:1791:THR:O	1:G:1795:GLY:N	2.44	0.46
1:A:55:ASP:OD2	1:A:59:VAL:HG23	2.16	0.46
1:A:155:GLU:HB2	1:A:1473:ARG:HH22	1.81	0.46
1:A:569:ASN:HB2	1:A:640:VAL:O	2.16	0.46
1:A:573:ARG:NE	1:A:575:GLN:OE1	2.39	0.46
1:A:1104:ARG:O	1:A:1108:PHE:HA	2.16	0.46
1:A:1620:MET:HE1	1:A:1686:LEU:O	2.15	0.46
1:A:1622:HIS:HB3	1:A:1657:GLU:CD	2.41	0.46
1:A:1850:PHE:CE2	1:A:1882:PHE:HE2	2.33	0.46
2:B:153:LYS:HD3	1:G:688:LEU:HD23	1.98	0.46
1:C:56:PHE:CE2	1:C:1010:ARG:CZ	2.98	0.46
1:C:758:ARG:NE	1:C:800:LEU:HD21	2.31	0.46
1:C:784:VAL:O	1:C:788:ILE:HG12	2.15	0.46
1:C:1040:LEU:HD23	1:C:1043:GLU:OE1	2.16	0.46
1:C:1053:HIS:O	1:C:1056:THR:N	2.49	0.46
1:C:1104:ARG:O	1:C:1108:PHE:HA	2.16	0.46
1:C:1264:THR:CG2	1:C:1268:LEU:HD21	2.45	0.46
1:C:1824:TYR:HE1	2:D:27:ALA:HA	1.79	0.46

*Continued on next page...*



*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:73:ARG:H	1:E:73:ARG:HD3	1.81	0.46
1:E:268:LEU:HD12	1:E:496:LEU:HD13	1.97	0.46
1:E:467:LEU:HB3	1:E:472:LEU:HB2	1.98	0.46
1:E:1055:VAL:HG21	1:E:1152:TYR:CZ	2.50	0.46
1:E:1157:VAL:O	1:E:1161:VAL:HG23	2.15	0.46
1:E:1278:LEU:HB2	1:E:1279:PRO:HD3	1.97	0.46
1:E:1371:LYS:HA	1:E:1374:MET:HE2	1.97	0.46
1:E:1501:ARG:HE	1:E:1671:GLY:HA2	1.81	0.46
1:E:1710:LEU:HG	1:E:1714:LEU:CD1	2.45	0.46
1:E:1853:CYS:HB3	1:E:1871:LYS:HD2	1.98	0.46
1:G:281:LEU:HB2	1:G:296:PHE:HB3	1.98	0.46
1:G:326:ILE:O	1:G:532:ILE:N	2.48	0.46
1:G:927:ILE:O	1:G:931:ALA:CB	2.59	0.46
1:G:1505:GLN:HA	1:G:1508:MET:CG	2.43	0.46
1:G:1908:ASP:HA	1:G:1911:LYS:HE2	1.98	0.46
2:H:72:TYR:OH	2:H:100:GLU:HB3	2.16	0.46
1:A:727:PHE:HB2	1:A:760:SER:HB2	1.96	0.46
1:C:224:ARG:HD2	1:C:224:ARG:N	2.30	0.46
1:C:1296:GLU:OE1	1:C:1426:SER:HB2	2.16	0.46
1:C:1371:LYS:HA	1:C:1374:MET:HE2	1.97	0.46
1:C:1407:GLU:OE1	1:C:1407:GLU:N	2.48	0.46
1:C:1559:HIS:O	1:C:1563:THR:HG23	2.14	0.46
1:C:1951:GLN:CD	1:C:2017:LEU:HD11	2.41	0.46
1:E:956:ARG:HA	1:E:959:ARG:CG	2.41	0.46
1:E:1014:PHE:O	1:E:1018:ARG:HG3	2.15	0.46
1:E:1908:ASP:HA	1:E:1911:LYS:HE2	1.98	0.46
2:F:52:ASN:C	2:F:53:LEU:HD12	2.40	0.46
2:F:64:TYR:CG	2:F:67:LEU:HD21	2.51	0.46
1:G:467:LEU:HB3	1:G:472:LEU:HB2	1.98	0.46
1:G:1157:VAL:O	1:G:1161:VAL:HG23	2.15	0.46
1:G:1882:PHE:HA	1:G:1883:PRO:C	2.41	0.46
1:A:265:CYS:SG	1:A:266:LEU:N	2.88	0.46
1:A:268:LEU:HD12	1:A:496:LEU:HD13	1.97	0.46
1:A:1058:ASN:HD21	1:A:1109:LEU:HB2	1.79	0.46
1:A:1263:ASN:ND2	1:A:1263:ASN:H	2.14	0.46
1:A:1803:LYS:HA	1:A:1803:LYS:HE2	1.98	0.46
1:A:2006:ASN:HA	1:A:2009:ARG:HG2	1.97	0.46
1:A:2008:CYS:O	1:A:2011:ARG:N	2.48	0.46
2:B:72:TYR:OH	2:B:100:GLU:HB3	2.16	0.46
1:C:55:ASP:OD2	1:C:59:VAL:HG23	2.16	0.46
1:C:265:CYS:SG	1:C:266:LEU:N	2.88	0.46

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:812:VAL:HA	1:C:815:VAL:HG12	1.98	0.46
1:C:1034:PRO:O	1:C:1038:LEU:HG	2.16	0.46
1:C:1038:LEU:HD22	1:C:1041:ARG:HH22	1.81	0.46
1:C:1297:TYR:CZ	1:C:1299:GLY:HA2	2.50	0.46
1:C:1552:GLN:HG2	1:C:1556:PHE:CE2	2.51	0.46
1:C:1622:HIS:HB3	1:C:1657:GLU:CD	2.41	0.46
1:C:1638:ARG:HD3	1:C:1638:ARG:N	2.31	0.46
1:C:1740:GLN:HE21	1:C:1746:ARG:H	1.61	0.46
1:C:1782:ILE:HG13	1:C:1783:SER:N	2.30	0.46
2:D:132:LYS:O	2:D:133:LYS:HG2	2.16	0.46
1:E:1034:PRO:O	1:E:1038:LEU:HG	2.16	0.46
1:E:1117:LEU:O	1:E:1121:LEU:HG	2.15	0.46
1:E:1263:ASN:ND2	1:E:1263:ASN:H	2.14	0.46
1:E:1297:TYR:CZ	1:E:1299:GLY:HA2	2.50	0.46
1:E:1565:THR:HA	1:E:1568:MET:HE3	1.96	0.46
1:G:812:VAL:HA	1:G:815:VAL:HG12	1.98	0.46
1:G:1522:GLU:OE1	1:G:1522:GLU:N	2.32	0.46
1:G:1573:GLU:H	1:G:1578:LEU:HD11	1.80	0.46
1:G:1620:MET:HE1	1:G:1686:LEU:O	2.15	0.46
1:G:1850:PHE:CE2	1:G:1882:PHE:HE2	2.33	0.46
2:H:132:LYS:O	2:H:133:LYS:HG2	2.16	0.46
1:A:56:PHE:CE2	1:A:1010:ARG:CZ	2.98	0.46
1:A:396:TRP:CH2	1:A:475:PHE:HB3	2.51	0.46
1:A:478:ASP:OD2	1:A:486:LEU:HG	2.15	0.46
1:A:812:VAL:HA	1:A:815:VAL:HG12	1.98	0.46
1:A:925:GLU:O	1:A:929:GLN:HG3	2.16	0.46
1:A:1773:GLU:HB3	1:A:1777:THR:HG21	1.97	0.46
1:A:1802:ILE:HB	1:A:1821:GLN:HA	1.98	0.46
1:A:1951:GLN:CD	1:A:2017:LEU:HD11	2.41	0.46
1:C:280:ILE:O	1:C:340:ILE:HA	2.16	0.46
1:C:346:LEU:HB2	1:C:392:MET:HE3	1.97	0.46
1:C:396:TRP:CH2	1:C:475:PHE:HB3	2.51	0.46
1:C:1121:LEU:HA	1:C:1132:HIS:CD2	2.51	0.46
1:C:1157:VAL:O	1:C:1161:VAL:HG23	2.15	0.46
1:C:1158:LYS:HD3	1:C:1158:LYS:N	2.30	0.46
1:C:1853:CYS:HB3	1:C:1871:LYS:HD2	1.98	0.46
1:C:1927:ALA:O	1:C:1931:GLN:HG3	2.16	0.46
2:D:44:VAL:HG12	2:D:45:MET:N	2.30	0.46
2:D:64:TYR:CG	2:D:67:LEU:HD21	2.51	0.46
1:E:569:ASN:HB2	1:E:640:VAL:O	2.16	0.46
1:E:1090:ASP:OD2	1:E:1093:VAL:HG22	2.15	0.46

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1121:LEU:HA	1:E:1132:HIS:CD2	2.51	0.46
1:E:1259:TRP:CE2	1:E:1263:ASN:ND2	2.84	0.46
1:E:1381:GLU:OE2	1:E:1384:LEU:HD22	2.16	0.46
1:E:1600:LEU:HD11	1:E:1619:CYS:O	2.16	0.46
1:E:1809:ASP:N	1:E:1809:ASP:OD1	2.48	0.46
2:F:44:VAL:HG12	2:F:45:MET:N	2.30	0.46
2:F:72:TYR:OH	2:F:100:GLU:HB3	2.16	0.46
1:G:265:CYS:SG	1:G:266:LEU:N	2.88	0.46
1:G:925:GLU:O	1:G:929:GLN:HG3	2.16	0.46
1:G:1134:LYS:HA	1:G:1137:SER:OG	2.16	0.46
1:G:1158:LYS:HD3	1:G:1158:LYS:N	2.30	0.46
1:G:1410:GLU:HG2	1:G:1411:SER:N	2.30	0.46
1:G:1552:GLN:HG2	1:G:1556:PHE:CE2	2.51	0.46
1:G:1710:LEU:HG	1:G:1714:LEU:CD1	2.45	0.46
1:G:1809:ASP:OD1	1:G:1809:ASP:N	2.48	0.46
1:G:1847:LEU:HB2	1:G:1882:PHE:CD2	2.51	0.46
1:G:1927:ALA:O	1:G:1931:GLN:HG3	2.16	0.46
1:A:805:PHE:HB2	1:A:915:GLN:CD	2.41	0.46
1:A:1053:HIS:O	1:A:1056:THR:N	2.49	0.46
1:A:1573:GLU:H	1:A:1578:LEU:HD11	1.81	0.46
1:A:1693:TYR:O	1:A:1697:GLY:N	2.29	0.46
1:A:1909:MET:HG3	1:A:1912:LYS:HD3	1.97	0.46
1:C:1134:LYS:HA	1:C:1137:SER:OG	2.16	0.46
1:C:1600:LEU:HD11	1:C:1619:CYS:O	2.16	0.46
1:E:130:LEU:HB2	1:E:1052:GLU:OE2	2.16	0.46
1:E:265:CYS:SG	1:E:266:LEU:N	2.88	0.46
1:E:396:TRP:CH2	1:E:475:PHE:HB3	2.51	0.46
1:E:727:PHE:HB2	1:E:760:SER:HB2	1.96	0.46
1:E:805:PHE:HB2	1:E:915:GLN:CD	2.41	0.46
1:E:927:ILE:O	1:E:931:ALA:CB	2.59	0.46
1:E:1053:HIS:O	1:E:1056:THR:N	2.49	0.46
1:E:1134:LYS:HA	1:E:1137:SER:OG	2.16	0.46
1:G:549:ASN:HA	1:G:715:SER:HA	1.97	0.46
1:G:683:PRO:O	1:G:684:SER:OG	2.27	0.46
1:G:1040:LEU:HD23	1:G:1043:GLU:OE1	2.16	0.46
1:G:1053:HIS:O	1:G:1056:THR:N	2.49	0.46
1:G:1108:PHE:O	1:G:1112:LEU:HG	2.16	0.46
1:G:1802:ILE:HB	1:G:1821:GLN:HA	1.98	0.46
1:G:1867:PRO:HA	1:G:1953:PHE:HZ	1.80	0.46
2:H:52:ASN:C	2:H:53:LEU:HD12	2.40	0.46
1:A:549:ASN:HB2	1:A:623:LEU:HB2	1.98	0.46

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1638:ARG:N	1:A:1638:ARG:HD3	2.31	0.46
1:A:1647:PHE:HA	1:A:1650:ILE:HD13	1.98	0.46
1:C:73:ARG:H	1:C:73:ARG:HD3	1.81	0.46
1:C:1683:LEU:O	1:C:1686:LEU:HB3	2.16	0.46
1:C:1882:PHE:HA	1:C:1883:PRO:C	2.41	0.46
1:E:344:LYS:N	1:E:392:MET:O	2.49	0.46
1:E:549:ASN:HA	1:E:715:SER:HA	1.97	0.46
1:E:580:GLU:OE2	1:E:684:SER:N	2.35	0.46
1:E:1040:LEU:HD23	1:E:1043:GLU:OE1	2.16	0.46
1:E:1104:ARG:O	1:E:1108:PHE:HA	2.16	0.46
1:E:1505:GLN:HA	1:E:1508:MET:CG	2.43	0.46
1:G:788:ILE:HG23	1:G:908:LEU:HD12	1.98	0.46
1:G:800:LEU:HA	1:G:800:LEU:HD23	1.81	0.46
1:G:1296:GLU:OE1	1:G:1426:SER:HB2	2.16	0.46
1:G:1683:LEU:O	1:G:1686:LEU:HB3	2.16	0.46
1:G:1802:ILE:N	1:G:1820:ILE:O	2.49	0.46
1:A:282:ALA:O	1:A:339:VAL:HG22	2.16	0.45
1:A:1108:PHE:O	1:A:1112:LEU:HG	2.17	0.45
1:A:1139:VAL:O	1:A:1142:LEU:HB3	2.16	0.45
1:A:1278:LEU:HB2	1:A:1279:PRO:HD3	1.97	0.45
1:A:1809:ASP:OD1	1:A:1809:ASP:N	2.48	0.45
1:A:1867:PRO:HA	1:A:1953:PHE:HZ	1.80	0.45
1:A:2014:LEU:HD13	1:A:2017:LEU:HD12	1.98	0.45
1:C:155:GLU:HB2	1:C:1473:ARG:HH22	1.81	0.45
1:C:268:LEU:HB3	1:C:300:LEU:HD11	1.98	0.45
1:C:1113:LEU:O	1:C:1117:LEU:HG	2.17	0.45
1:C:1847:LEU:HB2	1:C:1882:PHE:CD2	2.51	0.45
1:C:1908:ASP:HA	1:C:1911:LYS:HE2	1.98	0.45
1:E:152:GLN:HE22	1:E:1379:LEU:C	2.21	0.45
1:E:549:ASN:HB2	1:E:623:LEU:HB2	1.98	0.45
1:E:1113:LEU:O	1:E:1117:LEU:HG	2.17	0.45
1:E:1370:THR:O	1:E:1373:GLU:HG3	2.16	0.45
1:E:1936:GLY:CA	2:F:39:ASN:OD1	2.64	0.45
2:F:132:LYS:O	2:F:133:LYS:HG2	2.16	0.45
1:G:405:VAL:HA	1:G:449:PHE:CD2	2.50	0.45
1:G:784:VAL:O	1:G:788:ILE:HG12	2.15	0.45
1:G:1104:ARG:O	1:G:1108:PHE:HA	2.16	0.45
1:G:1128:ALA:HB1	1:G:1131:LEU:HB2	1.97	0.45
1:G:1501:ARG:HE	1:G:1671:GLY:HA2	1.80	0.45
1:G:1638:ARG:HD3	1:G:1638:ARG:N	2.31	0.45
1:A:590:PHE:HB2	1:A:620:LYS:HD2	1.97	0.45

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:758:ARG:NE	1:A:800:LEU:HD21	2.31	0.45
1:C:125:ARG:NH2	1:C:1003:ASP:OD1	2.49	0.45
1:C:281:LEU:HB2	1:C:296:PHE:HB3	1.98	0.45
1:C:805:PHE:HB2	1:C:915:GLN:CD	2.41	0.45
1:C:1139:VAL:O	1:C:1142:LEU:HB3	2.17	0.45
1:C:1265:GLU:HG3	1:C:1268:LEU:HD22	1.97	0.45
1:C:1464:LEU:HA	1:C:1513:LEU:HD11	1.99	0.45
1:C:1809:ASP:OD1	1:C:1809:ASP:N	2.48	0.45
1:E:280:ILE:O	1:E:340:ILE:HA	2.16	0.45
1:E:758:ARG:NE	1:E:800:LEU:HD21	2.31	0.45
1:E:1547:PHE:O	1:E:1551:VAL:HG23	2.16	0.45
1:E:1552:GLN:HG2	1:E:1556:PHE:CE2	2.51	0.45
1:E:1695:THR:HA	1:E:1700:TYR:HE1	1.82	0.45
1:E:1773:GLU:HB3	1:E:1777:THR:HG21	1.97	0.45
1:E:1909:MET:HG3	1:E:1912:LYS:HD3	1.97	0.45
2:F:69:PRO:HA	2:F:72:TYR:HB2	1.98	0.45
1:G:55:ASP:OD2	1:G:59:VAL:HG23	2.16	0.45
1:G:1139:VAL:O	1:G:1142:LEU:HB3	2.17	0.45
1:G:1259:TRP:CE2	1:G:1263:ASN:ND2	2.84	0.45
1:G:1413:LEU:HD11	1:G:1446:LYS:HZ1	1.81	0.45
2:H:16:LYS:NZ	2:H:58:THR:H	2.14	0.45
2:H:64:TYR:CG	2:H:67:LEU:HD21	2.51	0.45
1:A:509:PHE:CE2	1:A:523:ASP:HB2	2.50	0.45
1:A:1296:GLU:OE1	1:A:1426:SER:HB2	2.16	0.45
1:A:1381:GLU:OE2	1:A:1384:LEU:HD22	2.16	0.45
1:A:1407:GLU:N	1:A:1407:GLU:OE1	2.48	0.45
1:A:1522:GLU:HG2	1:A:1523:GLU:CD	2.42	0.45
1:C:510:CYS:HB3	1:C:518:ILE:HB	1.99	0.45
1:C:1257:VAL:O	1:C:1260:VAL:HG12	2.16	0.45
1:C:1715:GLU:O	1:C:1718:ARG:HG3	2.17	0.45
1:E:281:LEU:HB2	1:E:296:PHE:HB3	1.98	0.45
1:E:284:TYR:HB3	1:E:473:PHE:CE1	2.52	0.45
1:E:510:CYS:HB3	1:E:518:ILE:HB	1.99	0.45
1:E:1882:PHE:HA	1:E:1883:PRO:C	2.41	0.45
1:G:56:PHE:CE2	1:G:1010:ARG:CZ	2.98	0.45
1:G:125:ARG:NH2	1:G:1003:ASP:OD1	2.49	0.45
1:G:130:LEU:HB2	1:G:1052:GLU:OE2	2.16	0.45
1:G:568:ARG:HD2	1:G:609:HIS:CD2	2.50	0.45
1:G:758:ARG:NE	1:G:800:LEU:HD21	2.31	0.45
2:H:101:VAL:O	2:H:105:CYS:N	2.49	0.45
1:A:105:LEU:HD22	1:A:109:VAL:HG11	1.97	0.45

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:326:ILE:O	1:A:532:ILE:N	2.48	0.45
1:A:510:CYS:HB3	1:A:518:ILE:HB	1.99	0.45
1:A:788:ILE:HG23	1:A:908:LEU:HD12	1.98	0.45
1:A:1039:THR:O	1:A:1042:MET:HB3	2.17	0.45
1:A:1464:LEU:HA	1:A:1513:LEU:HD11	1.99	0.45
1:A:1501:ARG:HE	1:A:1671:GLY:HA2	1.80	0.45
1:C:286:VAL:HG12	1:C:473:PHE:HD1	1.81	0.45
1:C:1381:GLU:OE2	1:C:1384:LEU:HD22	2.16	0.45
1:C:1693:TYR:O	1:C:1697:GLY:N	2.29	0.45
1:C:1810:LYS:NZ	1:C:1813:LEU:O	2.48	0.45
2:D:86:SER:O	2:D:89:SER:OG	2.25	0.45
1:E:97:PRO:HG2	1:E:99:ILE:HG12	1.99	0.45
1:E:105:LEU:HD22	1:E:109:VAL:HG11	1.97	0.45
1:G:152:GLN:HE22	1:G:1379:LEU:C	2.21	0.45
1:G:396:TRP:CH2	1:G:475:PHE:HB3	2.51	0.45
1:G:1039:THR:O	1:G:1042:MET:HB3	2.17	0.45
1:G:1381:GLU:OE2	1:G:1384:LEU:HD22	2.16	0.45
1:G:1622:HIS:HB3	1:G:1657:GLU:CD	2.41	0.45
1:G:1637:HIS:HB2	1:G:1640:LEU:HG	1.99	0.45
1:G:1803:LYS:HE2	1:G:1803:LYS:HA	1.98	0.45
1:G:1951:GLN:CD	1:G:2017:LEU:HD11	2.41	0.45
1:A:73:ARG:HD3	1:A:73:ARG:H	1.81	0.45
1:A:346:LEU:HB2	1:A:392:MET:HE3	1.97	0.45
1:A:927:ILE:O	1:A:931:ALA:CB	2.59	0.45
1:A:1034:PRO:O	1:A:1038:LEU:HG	2.16	0.45
1:A:1259:TRP:CE2	1:A:1263:ASN:ND2	2.84	0.45
1:A:1370:THR:O	1:A:1373:GLU:HG3	2.16	0.45
1:A:1552:GLN:HG2	1:A:1556:PHE:CE2	2.51	0.45
1:A:1620:MET:HB2	1:A:1620:MET:HE3	1.41	0.45
1:A:1681:LEU:HA	1:A:1684:VAL:HB	1.97	0.45
1:A:1761:PHE:HB3	1:A:1764:LEU:CB	2.44	0.45
1:C:152:GLN:HE22	1:C:1379:LEU:C	2.21	0.45
1:C:326:ILE:O	1:C:532:ILE:N	2.48	0.45
1:C:457:THR:HG22	1:C:496:LEU:H	1.80	0.45
1:C:467:LEU:HB3	1:C:472:LEU:HB2	1.98	0.45
1:C:569:ASN:HB2	1:C:640:VAL:O	2.16	0.45
1:C:1056:THR:HA	1:C:1060:PRO:HG3	1.99	0.45
1:C:1108:PHE:O	1:C:1112:LEU:HG	2.16	0.45
1:C:1128:ALA:HB1	1:C:1131:LEU:HB2	1.97	0.45
1:C:1142:LEU:HG	1:C:1146:HIS:CD2	2.50	0.45
1:C:1772:LYS:HZ3	1:C:1883:PRO:HA	1.80	0.45

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:55:ASP:OD2	1:E:59:VAL:HG23	2.16	0.45
1:E:509:PHE:CE2	1:E:523:ASP:HB2	2.49	0.45
1:E:1151:ARG:NH2	1:E:1152:TYR:OH	2.30	0.45
1:E:1522:GLU:HG2	1:E:1523:GLU:CD	2.41	0.45
1:E:1607:HIS:CB	1:E:1616:ALA:HB2	2.46	0.45
1:E:1647:PHE:HA	1:E:1650:ILE:HD13	1.98	0.45
1:E:1715:GLU:O	1:E:1718:ARG:HG3	2.17	0.45
1:E:1932:MET:SD	2:F:56:TRP:CE3	3.09	0.45
1:G:105:LEU:HD22	1:G:109:VAL:HG11	1.97	0.45
1:G:234:LEU:C	1:G:1384:LEU:HD12	2.40	0.45
1:G:912:LEU:HA	1:G:915:GLN:CD	2.42	0.45
1:G:1257:VAL:O	1:G:1261:LEU:HD23	2.17	0.45
1:G:1265:GLU:HG3	1:G:1268:LEU:HD22	1.97	0.45
1:A:125:ARG:NH1	1:A:1003:ASP:HA	2.26	0.45
1:A:128:GLN:O	1:A:131:SER:N	2.40	0.45
1:A:130:LEU:HB2	1:A:1052:GLU:OE2	2.16	0.45
1:A:224:ARG:HA	1:A:227:ARG:NH1	2.32	0.45
1:A:1410:GLU:HG2	1:A:1411:SER:N	2.30	0.45
1:A:1638:ARG:HD3	1:A:1638:ARG:H	1.82	0.45
2:B:9:VAL:HA	2:B:16:LYS:NZ	2.32	0.45
1:C:284:TYR:HB3	1:C:473:PHE:CE1	2.52	0.45
1:C:580:GLU:OE2	1:C:684:SER:N	2.35	0.45
1:C:727:PHE:HE1	1:C:761:LEU:HB2	1.82	0.45
1:C:1262:LYS:HG2	1:C:1263:ASN:N	2.27	0.45
1:C:1370:THR:O	1:C:1373:GLU:HG3	2.16	0.45
1:C:1423:SER:OG	1:C:1424:LEU:N	2.50	0.45
1:C:1802:ILE:HB	1:C:1821:GLN:HA	1.98	0.45
1:C:1803:LYS:HE2	1:C:1803:LYS:HA	1.98	0.45
1:E:224:ARG:HA	1:E:227:ARG:NH1	2.32	0.45
1:E:405:VAL:HA	1:E:449:PHE:CD2	2.50	0.45
1:E:1296:GLU:OE1	1:E:1426:SER:HB2	2.16	0.45
1:E:1443:LEU:HA	1:E:1446:LYS:HE3	1.99	0.45
1:E:1520:PHE:CE2	1:E:1522:GLU:HB3	2.52	0.45
1:E:1894:ARG:NH1	1:E:1896:GLU:HB2	2.29	0.45
2:F:101:VAL:O	2:F:105:CYS:N	2.49	0.45
1:G:284:TYR:HB3	1:G:473:PHE:CE1	2.52	0.45
1:G:951:ARG:HD3	1:G:959:ARG:NH2	2.30	0.45
1:G:1034:PRO:O	1:G:1038:LEU:HG	2.16	0.45
1:G:1108:PHE:CE2	1:G:1112:LEU:HD11	2.52	0.45
1:G:1370:THR:O	1:G:1373:GLU:HG3	2.16	0.45
1:G:1371:LYS:HA	1:G:1374:MET:HE2	1.97	0.45

*Continued on next page...*



*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1878:THR:OG1	1:G:1880:HIS:O	2.24	0.45
2:H:9:VAL:HA	2:H:16:LYS:NZ	2.32	0.45
1:A:268:LEU:HB3	1:A:300:LEU:HD11	1.98	0.45
1:A:1112:LEU:O	1:A:1113:LEU:C	2.60	0.45
1:A:1257:VAL:O	1:A:1261:LEU:HD23	2.17	0.45
1:A:1837:ARG:HA	1:A:1842:ASP:CG	2.42	0.45
1:A:1847:LEU:HB2	1:A:1882:PHE:CD2	2.51	0.45
2:B:101:VAL:O	2:B:105:CYS:N	2.49	0.45
1:C:130:LEU:HB2	1:C:1052:GLU:OE2	2.16	0.45
1:C:1062:CYS:O	1:C:1106:GLN:NE2	2.50	0.45
1:C:1647:PHE:HA	1:C:1650:ILE:HD13	1.98	0.45
1:C:1947:LEU:H	1:C:1947:LEU:HD12	1.82	0.45
2:D:101:VAL:O	2:D:105:CYS:N	2.49	0.45
1:E:457:THR:HG22	1:E:496:LEU:H	1.80	0.45
1:E:1108:PHE:CE2	1:E:1112:LEU:HD11	2.52	0.45
1:E:1108:PHE:O	1:E:1112:LEU:HG	2.16	0.45
1:E:1409:ARG:O	1:E:1412:VAL:HB	2.17	0.45
1:E:1638:ARG:HD3	1:E:1638:ARG:N	2.31	0.45
1:E:1987:LYS:HZ2	1:E:1991:LEU:HD11	1.82	0.45
1:E:1988:ASN:O	1:E:1992:ILE:HG23	2.17	0.45
2:F:8:VAL:HA	2:F:79:LEU:O	2.17	0.45
1:G:45:VAL:HG21	1:G:1100:SER:HA	1.99	0.45
1:G:569:ASN:HB2	1:G:640:VAL:O	2.16	0.45
1:G:727:PHE:HE1	1:G:761:LEU:HB2	1.82	0.45
1:G:805:PHE:HB2	1:G:915:GLN:CD	2.41	0.45
1:G:1013:VAL:O	1:G:1016:LEU:HG	2.17	0.45
1:G:1263:ASN:ND2	1:G:1263:ASN:H	2.14	0.45
1:G:1520:PHE:CE2	1:G:1522:GLU:HB3	2.52	0.45
1:A:912:LEU:HA	1:A:915:GLN:CD	2.42	0.45
1:A:938:MET:O	1:A:942:MET:HG2	2.17	0.45
1:A:1040:LEU:HD23	1:A:1043:GLU:OE1	2.16	0.45
1:A:1547:PHE:O	1:A:1551:VAL:HG23	2.16	0.45
1:A:1882:PHE:HA	1:A:1883:PRO:C	2.41	0.45
1:A:1927:ALA:O	1:A:1931:GLN:HG3	2.16	0.45
2:B:125:THR:HG23	2:B:128:LYS:NZ	2.32	0.45
2:B:154:TYR:O	2:B:155:LEU:HD22	2.17	0.45
1:C:405:VAL:HG22	1:C:449:PHE:CE1	2.52	0.45
1:C:588:VAL:HB	1:C:622:HIS:HD1	1.82	0.45
1:C:938:MET:O	1:C:942:MET:HG2	2.17	0.45
1:C:1013:VAL:O	1:C:1016:LEU:HG	2.17	0.45
1:C:1263:ASN:ND2	1:C:1263:ASN:H	2.14	0.45

*Continued on next page...*



*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1409:ARG:O	1:C:1412:VAL:HB	2.17	0.45
1:C:1410:GLU:HG2	1:C:1411:SER:N	2.30	0.45
1:C:1802:ILE:N	1:C:1820:ILE:O	2.50	0.45
2:D:9:VAL:HA	2:D:16:LYS:NZ	2.32	0.45
2:D:154:TYR:O	2:D:155:LEU:HD22	2.17	0.45
1:E:268:LEU:HB3	1:E:300:LEU:HD11	1.98	0.45
1:E:282:ALA:O	1:E:339:VAL:HG22	2.16	0.45
1:E:286:VAL:HG12	1:E:473:PHE:HD1	1.81	0.45
1:E:925:GLU:O	1:E:929:GLN:HG3	2.16	0.45
1:E:1121:LEU:HA	1:E:1132:HIS:NE2	2.32	0.45
1:E:1464:LEU:HA	1:E:1513:LEU:HD11	1.99	0.45
1:E:1683:LEU:O	1:E:1686:LEU:HB3	2.16	0.45
1:E:1951:GLN:CD	1:E:2017:LEU:HD11	2.41	0.45
1:G:253:PRO:HD3	1:G:834:ALA:HB1	1.99	0.45
1:G:1464:LEU:HA	1:G:1513:LEU:HD11	1.99	0.45
1:G:1647:PHE:HA	1:G:1650:ILE:HD13	1.98	0.45
1:G:1837:ARG:HA	1:G:1842:ASP:CG	2.42	0.45
1:A:280:ILE:O	1:A:340:ILE:HA	2.16	0.45
1:A:1443:LEU:HA	1:A:1446:LYS:HE3	1.99	0.45
1:C:224:ARG:HA	1:C:227:ARG:NH1	2.32	0.45
1:C:253:PRO:HD3	1:C:834:ALA:HB1	1.99	0.45
1:C:1090:ASP:OD2	1:C:1093:VAL:HG22	2.15	0.45
1:C:1547:PHE:O	1:C:1551:VAL:HG23	2.16	0.45
1:C:1695:THR:HA	1:C:1700:TYR:HE1	1.82	0.45
2:D:69:PRO:HA	2:D:72:TYR:HB2	1.98	0.45
1:E:253:PRO:HD3	1:E:834:ALA:HB1	1.99	0.45
1:E:924:ARG:NH1	1:E:927:ILE:HG21	2.32	0.45
1:E:1056:THR:HA	1:E:1060:PRO:HG3	1.99	0.45
1:E:1257:VAL:O	1:E:1260:VAL:HG12	2.16	0.45
1:E:1573:GLU:H	1:E:1578:LEU:HD11	1.81	0.45
1:G:73:ARG:HD3	1:G:73:ARG:H	1.81	0.45
1:G:268:LEU:HB3	1:G:300:LEU:HD11	1.98	0.45
1:G:280:ILE:O	1:G:340:ILE:HA	2.16	0.45
1:G:344:LYS:N	1:G:392:MET:O	2.49	0.45
1:A:588:VAL:HB	1:A:622:HIS:HD1	1.82	0.45
1:A:1695:THR:HA	1:A:1700:TYR:HE1	1.82	0.45
1:A:1791:THR:O	1:A:1795:GLY:N	2.44	0.45
1:A:1848:ARG:O	1:A:1878:THR:HG23	2.17	0.45
2:B:8:VAL:HA	2:B:79:LEU:O	2.17	0.45
1:C:1522:GLU:HG2	1:C:1523:GLU:CD	2.41	0.45
1:C:1988:ASN:O	1:C:1992:ILE:HG23	2.17	0.45

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:264:LYS:HB2	1:E:499:ASP:OD1	2.17	0.45
1:E:1139:VAL:O	1:E:1142:LEU:HB3	2.17	0.45
1:E:1399:ILE:O	1:E:1403:VAL:HG23	2.17	0.45
1:E:1802:ILE:N	1:E:1820:ILE:O	2.49	0.45
1:E:1884:TYR:CE2	1:E:1885:ILE:HG12	2.52	0.45
1:E:2014:LEU:HD13	1:E:2017:LEU:HD12	1.98	0.45
1:G:552:TYR:HA	1:G:619:PHE:O	2.17	0.45
1:G:1909:MET:HA	1:G:1912:LYS:CG	2.42	0.45
1:G:1947:LEU:H	1:G:1947:LEU:HD12	1.82	0.45
1:A:264:LYS:HB2	1:A:499:ASP:OD1	2.17	0.44
1:A:956:ARG:HA	1:A:959:ARG:CG	2.41	0.44
1:A:1637:HIS:HB2	1:A:1640:LEU:HG	1.99	0.44
1:A:1683:LEU:O	1:A:1686:LEU:HB3	2.16	0.44
1:A:1853:CYS:HB3	1:A:1871:LYS:HD2	1.98	0.44
1:C:1121:LEU:HA	1:C:1132:HIS:NE2	2.32	0.44
1:C:1257:VAL:O	1:C:1261:LEU:HD23	2.17	0.44
1:C:1283:ARG:O	1:C:1287:LEU:HG	2.18	0.44
2:D:8:VAL:HA	2:D:79:LEU:O	2.17	0.44
1:E:812:VAL:HA	1:E:815:VAL:HG12	1.98	0.44
1:E:897:ASP:O	1:E:901:ARG:HG2	2.17	0.44
1:E:1257:VAL:O	1:E:1261:LEU:HD23	2.17	0.44
1:E:1260:VAL:O	1:E:1264:THR:OG1	2.30	0.44
1:E:1423:SER:OG	1:E:1424:LEU:N	2.50	0.44
1:E:1637:HIS:HB2	1:E:1640:LEU:HG	1.99	0.44
1:G:264:LYS:HB2	1:G:499:ASP:OD1	2.17	0.44
1:G:627:VAL:HG11	1:G:667:LEU:HD21	1.99	0.44
1:G:1021:TYR:HA	1:G:1024:VAL:CG1	2.47	0.44
1:G:1038:LEU:HD22	1:G:1041:ARG:HH22	1.81	0.44
1:G:1062:CYS:O	1:G:1106:GLN:NE2	2.50	0.44
1:G:1399:ILE:O	1:G:1403:VAL:HG23	2.17	0.44
1:G:1968:ASN:OD1	1:G:1969:LYS:N	2.50	0.44
1:G:1988:ASN:O	1:G:1992:ILE:HG23	2.17	0.44
2:H:102:ARG:NE	2:H:105:CYS:O	2.44	0.44
1:A:627:VAL:HG11	1:A:667:LEU:HD21	1.99	0.44
1:A:718:HIS:CD2	1:A:719:PRO:HD2	2.52	0.44
1:A:897:ASP:O	1:A:901:ARG:HG2	2.17	0.44
1:A:1121:LEU:HA	1:A:1132:HIS:NE2	2.32	0.44
1:A:1134:LYS:HA	1:A:1137:SER:OG	2.16	0.44
1:A:1906:ILE:O	1:A:1910:GLN:HG2	2.18	0.44
2:B:119:LEU:HD22	2:B:125:THR:OG1	2.17	0.44
1:C:282:ALA:O	1:C:339:VAL:HG22	2.16	0.44

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1059:LEU:O	1:C:1059:LEU:HG	2.17	0.44
1:C:1108:PHE:CE2	1:C:1112:LEU:HD11	2.52	0.44
1:C:1399:ILE:O	1:C:1403:VAL:HG23	2.17	0.44
1:C:1539:ASP:HB3	1:C:1547:PHE:HZ	1.83	0.44
1:C:1779:LEU:HD13	2:D:26:ASN:CG	2.43	0.44
1:C:1854:THR:OG1	1:C:1872:ARG:HB2	2.17	0.44
1:C:1906:ILE:O	1:C:1910:GLN:HG2	2.18	0.44
1:E:727:PHE:HE1	1:E:761:LEU:HB2	1.82	0.44
1:E:1038:LEU:HD22	1:E:1041:ARG:HH22	1.81	0.44
1:E:1059:LEU:HG	1:E:1059:LEU:O	2.17	0.44
1:E:1149:ASP:CG	1:E:1152:TYR:HD2	2.25	0.44
1:E:1413:LEU:HD11	1:E:1446:LYS:NZ	2.33	0.44
1:E:1847:LEU:HB2	1:E:1882:PHE:CD2	2.51	0.44
1:E:1947:LEU:HD12	1:E:1947:LEU:H	1.82	0.44
1:G:133:ALA:HA	1:G:246:ARG:CZ	2.47	0.44
1:G:224:ARG:HA	1:G:227:ARG:NH1	2.32	0.44
1:G:1149:ASP:CG	1:G:1152:TYR:HD2	2.25	0.44
1:G:1283:ARG:O	1:G:1287:LEU:HG	2.18	0.44
1:G:1599:TRP:HA	1:G:1602:ASN:OD1	2.17	0.44
1:A:152:GLN:HE22	1:A:1379:LEU:C	2.21	0.44
1:A:1113:LEU:O	1:A:1117:LEU:HG	2.17	0.44
1:A:1539:ASP:HB3	1:A:1547:PHE:HZ	1.83	0.44
1:A:1947:LEU:H	1:A:1947:LEU:HD12	1.82	0.44
1:C:344:LYS:N	1:C:392:MET:O	2.49	0.44
1:C:1599:TRP:HA	1:C:1602:ASN:OD1	2.17	0.44
2:D:102:ARG:NE	2:D:105:CYS:O	2.44	0.44
1:E:573:ARG:NE	1:E:575:GLN:OE1	2.39	0.44
1:E:588:VAL:HB	1:E:622:HIS:HD1	1.82	0.44
1:E:938:MET:O	1:E:942:MET:HG2	2.17	0.44
1:E:1039:THR:O	1:E:1042:MET:HB3	2.17	0.44
1:E:1112:LEU:O	1:E:1113:LEU:C	2.60	0.44
1:E:1747:VAL:HA	1:E:1840:TYR:OH	2.18	0.44
1:E:1884:TYR:CZ	1:E:1885:ILE:HG12	2.52	0.44
2:F:125:THR:HG23	2:F:128:LYS:NZ	2.32	0.44
2:F:128:LYS:HA	2:F:131:GLU:OE1	2.18	0.44
2:F:154:TYR:O	2:F:155:LEU:HD22	2.17	0.44
1:G:938:MET:O	1:G:942:MET:HG2	2.17	0.44
1:G:1121:LEU:HA	1:G:1132:HIS:CD2	2.51	0.44
1:G:1747:VAL:HA	1:G:1840:TYR:OH	2.18	0.44
1:G:1848:ARG:O	1:G:1878:THR:HG23	2.17	0.44
2:H:125:THR:HG23	2:H:128:LYS:NZ	2.32	0.44

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:85:LEU:HD23	1:A:85:LEU:H	1.83	0.44
1:A:253:PRO:HD3	1:A:834:ALA:HB1	1.99	0.44
1:A:544:HIS:HB2	1:A:777:HIS:NE2	2.32	0.44
1:A:666:ARG:NH1	1:A:668:ARG:HE	2.15	0.44
1:A:1108:PHE:CE2	1:A:1112:LEU:HD11	2.52	0.44
1:A:1399:ILE:O	1:A:1403:VAL:HG23	2.17	0.44
1:A:1747:VAL:HA	1:A:1840:TYR:OH	2.18	0.44
1:C:552:TYR:HA	1:C:619:PHE:O	2.17	0.44
1:C:897:ASP:O	1:C:901:ARG:HG2	2.17	0.44
1:C:1685:GLY:HA2	1:C:1688:GLU:OE2	2.17	0.44
1:E:552:TYR:HA	1:E:619:PHE:O	2.17	0.44
1:E:666:ARG:NH1	1:E:668:ARG:HE	2.15	0.44
1:E:792:ILE:HG21	1:E:899:VAL:HG22	1.99	0.44
1:E:1689:GLN:HG2	1:E:1693:TYR:CZ	2.52	0.44
1:E:1837:ARG:HA	1:E:1842:ASP:CG	2.42	0.44
1:E:1906:ILE:O	1:E:1910:GLN:HG2	2.17	0.44
1:E:1927:ALA:O	1:E:1931:GLN:HG3	2.16	0.44
1:G:282:ALA:O	1:G:339:VAL:HG22	2.16	0.44
1:G:549:ASN:HB2	1:G:623:LEU:HB2	1.98	0.44
1:G:573:ARG:NE	1:G:575:GLN:OE1	2.39	0.44
1:G:666:ARG:NH1	1:G:668:ARG:HE	2.15	0.44
1:G:1443:LEU:HA	1:G:1446:LYS:HE3	1.99	0.44
1:G:1453:GLU:OE1	1:G:1453:GLU:N	2.32	0.44
1:G:1629:GLU:OE2	1:G:1658:SER:HA	2.18	0.44
1:G:1884:TYR:CE2	1:G:1885:ILE:HG12	2.52	0.44
2:H:8:VAL:HA	2:H:79:LEU:O	2.17	0.44
2:H:119:LEU:HD22	2:H:125:THR:OG1	2.17	0.44
2:H:154:TYR:O	2:H:155:LEU:HD22	2.17	0.44
1:A:78:PHE:HE2	1:A:956:ARG:HH21	1.65	0.44
1:A:543:PRO:HB3	1:A:777:HIS:HD2	1.83	0.44
1:A:1100:SER:HB2	1:A:1102:PRO:HD2	2.00	0.44
1:A:1520:PHE:CE2	1:A:1522:GLU:HB3	2.52	0.44
1:A:1689:GLN:HG2	1:A:1693:TYR:CZ	2.52	0.44
1:C:45:VAL:HG21	1:C:1100:SER:HA	1.99	0.44
1:C:133:ALA:HA	1:C:246:ARG:CZ	2.47	0.44
1:C:614:GLU:H	1:C:614:GLU:CD	2.26	0.44
1:C:1689:GLN:HG2	1:C:1693:TYR:CZ	2.52	0.44
1:C:1827:PRO:HA	1:C:1850:PHE:CD1	2.53	0.44
1:C:1884:TYR:CE2	1:C:1885:ILE:HG12	2.53	0.44
2:D:125:THR:HG23	2:D:128:LYS:NZ	2.32	0.44
1:E:133:ALA:HA	1:E:246:ARG:CZ	2.47	0.44

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:718:HIS:CD2	1:E:719:PRO:HD2	2.53	0.44
1:E:788:ILE:HG23	1:E:908:LEU:HD12	1.98	0.44
1:E:1599:TRP:HA	1:E:1602:ASN:OD1	2.17	0.44
2:F:9:VAL:HA	2:F:16:LYS:NZ	2.32	0.44
1:G:97:PRO:HG2	1:G:99:ILE:HG12	1.99	0.44
1:G:588:VAL:HB	1:G:622:HIS:HD1	1.82	0.44
1:G:1100:SER:HB2	1:G:1102:PRO:HD2	2.00	0.44
1:G:1689:GLN:HG2	1:G:1693:TYR:CZ	2.52	0.44
1:G:1715:GLU:O	1:G:1718:ARG:HG3	2.17	0.44
1:A:45:VAL:HG21	1:A:1100:SER:HA	1.99	0.44
1:A:133:ALA:HA	1:A:246:ARG:CZ	2.47	0.44
1:A:283:LEU:HB2	1:A:338:LEU:HD13	2.00	0.44
1:A:467:LEU:HB3	1:A:472:LEU:HB2	1.98	0.44
1:A:727:PHE:HE1	1:A:761:LEU:HB2	1.82	0.44
1:A:800:LEU:HD23	1:A:800:LEU:HA	1.81	0.44
1:A:1021:TYR:HA	1:A:1024:VAL:CG1	2.47	0.44
1:A:1038:LEU:HD22	1:A:1041:ARG:HH22	1.81	0.44
1:A:1423:SER:OG	1:A:1424:LEU:N	2.50	0.44
1:A:1607:HIS:CB	1:A:1616:ALA:HB2	2.46	0.44
1:A:1884:TYR:CE2	1:A:1885:ILE:HG12	2.52	0.44
1:A:1885:ILE:HG13	1:A:1886:LYS:HG2	2.00	0.44
2:B:128:LYS:HA	2:B:131:GLU:OE1	2.18	0.44
1:C:85:LEU:HD23	1:C:85:LEU:H	1.83	0.44
1:C:97:PRO:HG2	1:C:99:ILE:HG12	1.99	0.44
1:C:544:HIS:HB2	1:C:777:HIS:NE2	2.32	0.44
1:C:568:ARG:HH21	1:C:643:GLN:HG3	1.83	0.44
1:C:666:ARG:NH1	1:C:668:ARG:HE	2.15	0.44
1:C:1142:LEU:HG	1:C:1146:HIS:NE2	2.33	0.44
2:D:64:TYR:CD1	2:D:67:LEU:HD21	2.53	0.44
2:D:119:LEU:HD22	2:D:125:THR:OG1	2.17	0.44
2:D:140:PRO:O	2:D:143:LEU:HB2	2.18	0.44
1:E:544:HIS:HB2	1:E:777:HIS:NE2	2.32	0.44
1:E:1685:GLY:HA2	1:E:1688:GLU:OE2	2.17	0.44
1:E:1827:PRO:HA	1:E:1850:PHE:CD1	2.53	0.44
1:E:1854:THR:OG1	1:E:1872:ARG:HB2	2.18	0.44
1:E:1941:THR:OG1	2:F:59:ALA:HB2	2.18	0.44
2:F:119:LEU:HD22	2:F:125:THR:OG1	2.17	0.44
1:G:726:LYS:HZ2	1:G:760:SER:HB3	1.83	0.44
1:G:897:ASP:O	1:G:901:ARG:HG2	2.17	0.44
1:G:1409:ARG:O	1:G:1412:VAL:HB	2.17	0.44
1:G:1539:ASP:HB3	1:G:1547:PHE:HZ	1.83	0.44

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:284:TYR:HB3	1:A:473:PHE:CE1	2.52	0.44
1:A:924:ARG:NH1	1:A:927:ILE:HG21	2.32	0.44
1:A:1058:ASN:ND2	1:A:1109:LEU:HB2	2.33	0.44
1:A:1142:LEU:HG	1:A:1146:HIS:NE2	2.33	0.44
1:A:1409:ARG:O	1:A:1412:VAL:HB	2.17	0.44
1:A:1715:GLU:O	1:A:1718:ARG:HG3	2.16	0.44
1:A:1772:LYS:NZ	1:A:1882:PHE:HB3	2.33	0.44
1:A:1802:ILE:N	1:A:1820:ILE:O	2.50	0.44
1:A:1854:THR:OG1	1:A:1872:ARG:HB2	2.18	0.44
2:B:64:TYR:CD1	2:B:67:LEU:HD21	2.53	0.44
2:B:69:PRO:HA	2:B:72:TYR:HB2	1.98	0.44
2:B:127:GLU:O	2:B:130:LYS:HG2	2.18	0.44
1:C:549:ASN:HB2	1:C:623:LEU:HB2	1.98	0.44
1:C:551:LEU:HD11	1:C:621:LEU:HD23	2.00	0.44
1:C:627:VAL:HG11	1:C:667:LEU:HD21	1.99	0.44
1:C:788:ILE:HG23	1:C:908:LEU:HD12	1.98	0.44
1:C:912:LEU:HA	1:C:915:GLN:CD	2.42	0.44
1:C:1100:SER:HB2	1:C:1102:PRO:HD2	2.00	0.44
1:C:1112:LEU:O	1:C:1113:LEU:C	2.60	0.44
1:C:1413:LEU:HD11	1:C:1446:LYS:NZ	2.33	0.44
1:C:1837:ARG:HA	1:C:1842:ASP:CG	2.42	0.44
1:C:1848:ARG:O	1:C:1878:THR:HG23	2.17	0.44
2:D:65:ASP:CG	2:D:68:ARG:HH12	2.26	0.44
2:D:140:PRO:HA	2:D:143:LEU:HD22	1.99	0.44
1:E:733:VAL:HG11	1:E:748:LEU:HD21	1.99	0.44
1:E:1803:LYS:HE2	1:E:1803:LYS:HA	1.98	0.44
1:G:152:GLN:CD	1:G:152:GLN:H	2.26	0.44
1:G:510:CYS:HB3	1:G:518:ILE:HB	1.99	0.44
1:G:1113:LEU:O	1:G:1117:LEU:HG	2.17	0.44
1:G:1121:LEU:HA	1:G:1132:HIS:NE2	2.32	0.44
1:G:1260:VAL:O	1:G:1264:THR:OG1	2.30	0.44
1:G:1413:LEU:HD11	1:G:1446:LYS:NZ	2.33	0.44
1:G:1522:GLU:HG2	1:G:1523:GLU:CD	2.41	0.44
1:G:1638:ARG:HD3	1:G:1638:ARG:H	1.82	0.44
1:G:1750:THR:OG1	1:G:1777:THR:OG1	2.04	0.44
2:H:69:PRO:HA	2:H:72:TYR:HB2	1.98	0.44
2:H:140:PRO:HA	2:H:143:LEU:HB2	2.00	0.44
2:H:161:THR:HG22	2:H:163:ARG:CD	2.43	0.44
1:A:244:VAL:H	1:A:246:ARG:HH11	1.66	0.44
1:A:405:VAL:HG22	1:A:449:PHE:CE1	2.52	0.44
1:A:552:TYR:HA	1:A:619:PHE:O	2.17	0.44

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:733:VAL:HG11	1:A:748:LEU:HD21	1.99	0.44
1:A:1005:LEU:HA	1:A:1005:LEU:HD23	1.77	0.44
1:A:1059:LEU:O	1:A:1059:LEU:HG	2.17	0.44
1:A:1062:CYS:O	1:A:1106:GLN:NE2	2.50	0.44
1:A:1599:TRP:HA	1:A:1602:ASN:OD1	2.17	0.44
1:A:1731:GLN:CG	1:C:1731:GLN:CG	2.81	0.44
1:C:264:LYS:HB2	1:C:499:ASP:OD1	2.18	0.44
1:C:283:LEU:HB2	1:C:338:LEU:HD13	2.00	0.44
1:C:1039:THR:O	1:C:1042:MET:HB3	2.17	0.44
1:C:1149:ASP:CG	1:C:1152:TYR:HD2	2.25	0.44
1:C:1520:PHE:CE2	1:C:1522:GLU:HB3	2.52	0.44
1:C:1747:VAL:HA	1:C:1840:TYR:OH	2.18	0.44
1:C:1885:ILE:HG13	1:C:1886:LYS:HG2	2.00	0.44
1:C:1968:ASN:OD1	1:C:1969:LYS:N	2.50	0.44
1:E:568:ARG:HH21	1:E:643:GLN:HG3	1.83	0.44
1:E:912:LEU:HA	1:E:915:GLN:CD	2.42	0.44
1:E:1283:ARG:O	1:E:1287:LEU:HG	2.18	0.44
1:E:1596:ARG:HD2	1:E:1596:ARG:HA	1.74	0.44
1:E:1629:GLU:OE2	1:E:1658:SER:HA	2.18	0.44
1:E:1809:ASP:HB2	1:E:1812:LYS:HE2	2.00	0.44
2:F:127:GLU:O	2:F:130:LYS:HG2	2.18	0.44
1:G:223:ARG:HE	1:G:1394:ASP:CG	2.21	0.44
2:H:64:TYR:CD1	2:H:67:LEU:HD21	2.53	0.44
2:H:86:SER:O	2:H:89:SER:OG	2.25	0.44
1:A:125:ARG:HH22	1:A:1003:ASP:HA	1.83	0.44
1:A:551:LEU:HD11	1:A:621:LEU:HD23	2.00	0.44
1:A:785:ARG:NH2	1:A:789:ARG:HH11	2.16	0.44
1:A:1522:GLU:OE1	1:A:1522:GLU:N	2.32	0.44
1:A:1809:ASP:HB2	1:A:1812:LYS:HE2	2.00	0.44
2:B:1:MET:HB3	2:B:2:GLN:H	1.65	0.44
2:B:9:VAL:HA	2:B:16:LYS:HZ1	1.83	0.44
1:C:543:PRO:HB3	1:C:777:HIS:HD2	1.83	0.44
1:C:718:HIS:CD2	1:C:719:PRO:HD2	2.53	0.44
1:C:956:ARG:HA	1:C:959:ARG:CG	2.41	0.44
1:C:1281:LEU:O	1:C:1285:LEU:HG	2.18	0.44
1:C:1467:LEU:HA	1:C:1467:LEU:HD23	1.83	0.44
1:C:1629:GLU:OE2	1:C:1658:SER:HA	2.18	0.44
1:C:1750:THR:OG1	1:C:1777:THR:OG1	2.04	0.44
1:C:1809:ASP:HB2	1:C:1812:LYS:HE2	2.00	0.44
1:C:1884:TYR:CZ	1:C:1885:ILE:HG12	2.53	0.44
2:D:140:PRO:HA	2:D:143:LEU:HB2	2.00	0.44

*Continued on next page...*



*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1606:LYS:O	1:E:1610:LEU:HD23	2.18	0.44
1:E:1638:ARG:HD3	1:E:1638:ARG:H	1.82	0.44
1:E:2015:GLN:N	1:E:2016:PRO:HD2	2.33	0.44
2:F:64:TYR:CD1	2:F:67:LEU:HD21	2.53	0.44
1:G:551:LEU:HD11	1:G:621:LEU:HD23	2.00	0.44
1:G:1056:THR:HA	1:G:1060:PRO:HG3	1.99	0.44
1:G:1853:CYS:HB3	1:G:1871:LYS:HD2	1.98	0.44
2:H:90:PHE:CZ	2:H:141:GLN:HG2	2.53	0.44
2:H:140:PRO:O	2:H:143:LEU:HB2	2.18	0.44
1:A:97:PRO:HG2	1:A:99:ILE:HG12	1.99	0.43
1:A:128:GLN:O	1:A:134:TYR:HB2	2.18	0.43
1:A:614:GLU:H	1:A:614:GLU:CD	2.26	0.43
1:A:1500:ALA:HA	1:A:1503:LYS:HE2	2.00	0.43
2:B:94:ARG:HE	2:B:145:MET:CE	2.31	0.43
1:C:1486:TYR:HA	1:C:1489:MET:HE3	2.00	0.43
1:C:1501:ARG:O	1:C:1505:GLN:OE1	2.36	0.43
1:C:1583:TYR:CD2	1:C:1886:LYS:HD3	2.53	0.43
1:E:85:LEU:H	1:E:85:LEU:HD23	1.83	0.43
1:E:125:ARG:HH22	1:E:1003:ASP:HA	1.83	0.43
1:E:283:LEU:HB2	1:E:338:LEU:HD13	2.00	0.43
1:E:405:VAL:HG22	1:E:449:PHE:CE1	2.52	0.43
1:E:1100:SER:HB2	1:E:1102:PRO:HD2	2.00	0.43
1:E:1903:GLU:O	1:E:1907:GLU:OE1	2.36	0.43
1:G:85:LEU:HD23	1:G:85:LEU:H	1.83	0.43
1:G:614:GLU:H	1:G:614:GLU:CD	2.26	0.43
1:G:1002:SER:OG	1:G:1003:ASP:N	2.51	0.43
1:G:1423:SER:OG	1:G:1424:LEU:N	2.50	0.43
1:G:1854:THR:OG1	1:G:1872:ARG:HB2	2.18	0.43
1:G:1903:GLU:O	1:G:1907:GLU:OE1	2.36	0.43
2:H:80:ILE:HG23	2:H:112:LEU:CD1	2.48	0.43
1:A:252:PRO:HB2	1:A:254:ARG:CZ	2.49	0.43
1:A:915:GLN:O	1:A:919:SER:N	2.52	0.43
1:A:1013:VAL:O	1:A:1016:LEU:HG	2.17	0.43
1:A:1027:ARG:HH11	1:A:1031:SER:CB	2.31	0.43
1:A:1685:GLY:HA2	1:A:1688:GLU:OE2	2.17	0.43
1:A:1968:ASN:OD1	1:A:1969:LYS:N	2.50	0.43
1:C:152:GLN:H	1:C:152:GLN:CD	2.26	0.43
1:C:785:ARG:NH2	1:C:789:ARG:HH11	2.16	0.43
1:C:1443:LEU:HA	1:C:1446:LYS:HE3	1.99	0.43
1:C:1637:HIS:HB2	1:C:1640:LEU:HG	1.99	0.43
1:C:1909:MET:HA	1:C:1912:LYS:CG	2.42	0.43

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:152:GLN:CD	1:E:152:GLN:H	2.26	0.43
1:E:1013:VAL:O	1:E:1016:LEU:HG	2.17	0.43
1:E:1500:ALA:HA	1:E:1503:LYS:HE2	2.00	0.43
1:E:1676:LYS:HG3	1:E:1677:HIS:N	2.33	0.43
1:E:1856:PHE:HA	1:E:1862:ALA:HA	2.00	0.43
2:F:65:ASP:CG	2:F:68:ARG:HH12	2.26	0.43
2:F:80:ILE:HG23	2:F:112:LEU:CD1	2.48	0.43
2:F:98:TYR:OH	2:F:102:ARG:NH1	2.51	0.43
2:F:140:PRO:HA	2:F:143:LEU:HB2	2.00	0.43
1:G:128:GLN:O	1:G:134:TYR:HB2	2.18	0.43
1:G:568:ARG:HH21	1:G:643:GLN:HG3	1.83	0.43
1:G:634:LEU:HD21	1:G:656:PHE:CD1	2.53	0.43
1:G:924:ARG:NH1	1:G:927:ILE:HG21	2.32	0.43
1:G:1051:HIS:CE1	1:G:1053:HIS:H	2.37	0.43
1:G:1059:LEU:HG	1:G:1059:LEU:O	2.17	0.43
1:G:1629:GLU:O	1:G:1633:LEU:HD23	2.19	0.43
1:G:1906:ILE:O	1:G:1910:GLN:HG2	2.17	0.43
1:A:247:CYS:HA	1:A:826:ARG:NH1	2.34	0.43
1:A:568:ARG:HH21	1:A:643:GLN:HG3	1.83	0.43
1:A:1059:LEU:CD1	1:A:1062:CYS:HB3	2.48	0.43
1:A:1149:ASP:CG	1:A:1152:TYR:HD2	2.25	0.43
1:A:1583:TYR:CD2	1:A:1886:LYS:HD3	2.53	0.43
1:A:1592:SER:OG	1:A:1595:LEU:HD23	2.18	0.43
1:A:1606:LYS:O	1:A:1610:LEU:HD23	2.18	0.43
1:A:1676:LYS:HG3	1:A:1677:HIS:N	2.33	0.43
1:A:1827:PRO:HA	1:A:1850:PHE:CD1	2.53	0.43
1:A:1856:PHE:HA	1:A:1862:ALA:HA	2.00	0.43
1:A:1884:TYR:CZ	1:A:1885:ILE:HG12	2.52	0.43
2:B:94:ARG:HE	2:B:145:MET:HE3	1.84	0.43
2:B:98:TYR:OH	2:B:102:ARG:NH1	2.51	0.43
1:C:129:TYR:O	1:C:135:SER:HB2	2.19	0.43
1:C:247:CYS:HA	1:C:826:ARG:NH1	2.34	0.43
1:C:726:LYS:HZ2	1:C:760:SER:HB3	1.83	0.43
1:C:924:ARG:NH1	1:C:927:ILE:HG21	2.32	0.43
1:C:1005:LEU:HA	1:C:1005:LEU:HD23	1.77	0.43
1:C:1592:SER:OG	1:C:1595:LEU:HD23	2.18	0.43
2:D:169:PHE:O	2:D:173:ILE:HG12	2.18	0.43
1:E:45:VAL:HG21	1:E:1100:SER:HA	1.99	0.43
1:E:244:VAL:H	1:E:246:ARG:HH11	1.66	0.43
1:E:956:ARG:CA	1:E:959:ARG:HG2	2.44	0.43
1:E:1486:TYR:HA	1:E:1489:MET:HE3	2.00	0.43

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1508:MET:O	1:E:1511:SER:OG	2.36	0.43
1:E:1772:LYS:NZ	1:E:1882:PHE:HB3	2.33	0.43
1:E:1791:THR:O	1:E:1795:GLY:N	2.44	0.43
2:F:140:PRO:HA	2:F:143:LEU:HD22	2.00	0.43
2:F:169:PHE:O	2:F:173:ILE:HG12	2.18	0.43
1:G:1112:LEU:O	1:G:1113:LEU:C	2.60	0.43
1:G:1685:GLY:HA2	1:G:1688:GLU:OE2	2.17	0.43
2:H:65:ASP:CG	2:H:68:ARG:HH12	2.26	0.43
2:H:127:GLU:O	2:H:130:LYS:HG2	2.18	0.43
2:H:169:PHE:O	2:H:173:ILE:HG12	2.19	0.43
1:A:129:TYR:O	1:A:135:SER:HB2	2.19	0.43
1:A:1150:PRO:HA	1:A:1153:ALA:HB2	2.00	0.43
1:A:1988:ASN:O	1:A:1992:ILE:HG23	2.17	0.43
1:C:142:GLN:O	1:C:146:GLN:HG2	2.19	0.43
1:C:216:ASP:O	1:C:220:GLU:OE1	2.37	0.43
1:C:733:VAL:HG11	1:C:748:LEU:HD21	1.99	0.43
1:C:824:ASP:OD2	1:C:826:ARG:HB2	2.19	0.43
1:C:951:ARG:HD3	1:C:959:ARG:NE	2.31	0.43
1:C:1051:HIS:CE1	1:C:1053:HIS:H	2.37	0.43
2:D:5:LYS:HB3	2:D:76:ASP:HB2	2.01	0.43
2:D:80:ILE:HG23	2:D:112:LEU:CD1	2.48	0.43
2:D:127:GLU:O	2:D:130:LYS:HG2	2.18	0.43
1:E:215:VAL:O	1:E:219:ASN:ND2	2.52	0.43
1:E:466:ARG:HB3	1:E:616:TYR:HD1	1.83	0.43
1:E:543:PRO:HB3	1:E:777:HIS:HD2	1.83	0.43
1:E:627:VAL:HG11	1:E:667:LEU:HD21	1.99	0.43
1:E:1150:PRO:HA	1:E:1153:ALA:HB2	2.00	0.43
1:E:1885:ILE:HG13	1:E:1886:LYS:HG2	2.00	0.43
1:E:1968:ASN:OD1	1:E:1969:LYS:N	2.50	0.43
1:G:466:ARG:HB3	1:G:616:TYR:HD1	1.83	0.43
1:G:733:VAL:HG11	1:G:748:LEU:HD21	1.99	0.43
1:G:1143:LEU:HA	1:G:1143:LEU:HD13	1.89	0.43
1:G:1158:LYS:O	1:G:1159:ALA:C	2.62	0.43
1:G:1281:LEU:O	1:G:1285:LEU:HG	2.18	0.43
1:G:1508:MET:O	1:G:1511:SER:OG	2.36	0.43
1:G:1587:ARG:NH2	1:G:1590:GLN:HE22	2.12	0.43
1:A:277:ILE:HA	1:A:343:GLU:O	2.19	0.43
1:A:331:TYR:HD2	1:A:537:ALA:HB3	1.84	0.43
1:A:466:ARG:HB3	1:A:616:TYR:HD1	1.83	0.43
1:A:1173:ARG:HA	1:A:1287:LEU:HD21	2.01	0.43
1:A:1396:LEU:O	1:A:1400:VAL:HG23	2.19	0.43

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1413:LEU:HD11	1:A:1446:LYS:NZ	2.33	0.43
1:C:223:ARG:HE	1:C:1394:ASP:CG	2.21	0.43
1:C:224:ARG:NH1	1:C:227:ARG:HH22	2.17	0.43
1:C:277:ILE:HA	1:C:343:GLU:O	2.18	0.43
1:C:641:SER:N	1:C:650:LEU:O	2.42	0.43
1:C:1156:THR:OG1	1:C:1157:VAL:N	2.51	0.43
1:C:1508:MET:O	1:C:1511:SER:OG	2.36	0.43
1:C:1557:ASN:O	1:C:1561:ILE:HG12	2.19	0.43
1:C:1575:PRO:O	1:C:1579:ILE:HD12	2.19	0.43
1:C:1629:GLU:O	1:C:1633:LEU:HD23	2.19	0.43
1:C:1845:TYR:CE1	1:C:1883:PRO:HD2	2.54	0.43
1:E:125:ARG:NH1	1:E:1003:ASP:HA	2.26	0.43
1:E:1049:CYS:C	1:E:1051:HIS:H	2.27	0.43
1:E:1051:HIS:CE1	1:E:1053:HIS:H	2.37	0.43
1:E:1592:SER:OG	1:E:1595:LEU:HD23	2.18	0.43
1:G:142:GLN:O	1:G:146:GLN:HG2	2.19	0.43
1:G:277:ILE:HA	1:G:343:GLU:O	2.19	0.43
1:G:405:VAL:HG22	1:G:449:PHE:CE1	2.52	0.43
1:G:543:PRO:HB3	1:G:777:HIS:HD2	1.83	0.43
1:G:1557:ASN:O	1:G:1561:ILE:HG12	2.19	0.43
1:G:1592:SER:OG	1:G:1595:LEU:HD23	2.18	0.43
1:G:1884:TYR:CZ	1:G:1885:ILE:HG12	2.52	0.43
1:A:239:ASP:OD2	1:A:1137:SER:HB2	2.18	0.43
1:A:634:LEU:HD21	1:A:656:PHE:CD1	2.53	0.43
1:A:792:ILE:HG21	1:A:899:VAL:HG22	1.99	0.43
1:A:1281:LEU:O	1:A:1285:LEU:HG	2.18	0.43
1:A:1467:LEU:HA	1:A:1467:LEU:HD23	1.84	0.43
1:A:1872:ARG:NH1	1:A:1896:GLU:HG2	2.34	0.43
2:B:65:ASP:CG	2:B:68:ARG:HH12	2.26	0.43
2:B:90:PHE:CZ	2:B:141:GLN:HG2	2.53	0.43
2:B:140:PRO:HA	2:B:143:LEU:HB2	1.99	0.43
2:B:140:PRO:O	2:B:143:LEU:HB2	2.18	0.43
2:B:161:THR:HG22	2:B:163:ARG:CD	2.43	0.43
1:C:573:ARG:NE	1:C:575:GLN:OE1	2.39	0.43
1:C:792:ILE:HG21	1:C:899:VAL:HG22	1.99	0.43
1:C:915:GLN:O	1:C:919:SER:N	2.51	0.43
1:C:951:ARG:NE	1:C:954:THR:HG21	2.33	0.43
1:C:1510:LEU:HD12	1:C:1511:SER:N	2.34	0.43
1:E:247:CYS:HA	1:E:826:ARG:NH1	2.34	0.43
1:E:252:PRO:HB2	1:E:254:ARG:NH1	2.33	0.43
1:E:574:VAL:HG12	1:E:602:ALA:HB3	2.00	0.43

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:784:VAL:HG13	1:E:908:LEU:CD1	2.49	0.43
1:E:951:ARG:HD3	1:E:959:ARG:NH2	2.30	0.43
1:E:1062:CYS:O	1:E:1106:GLN:NE2	2.50	0.43
1:E:1281:LEU:O	1:E:1285:LEU:HG	2.18	0.43
1:E:1285:LEU:HD23	1:E:1288:LEU:HD12	2.01	0.43
2:F:90:PHE:CZ	2:F:141:GLN:HG2	2.53	0.43
2:F:140:PRO:O	2:F:143:LEU:HB2	2.18	0.43
1:G:216:ASP:O	1:G:220:GLU:OE1	2.37	0.43
1:G:792:ILE:HG21	1:G:899:VAL:HG22	1.99	0.43
1:G:1396:LEU:O	1:G:1400:VAL:HG23	2.19	0.43
1:G:1413:LEU:HA	1:G:1416:VAL:HG22	2.01	0.43
1:G:1607:HIS:CB	1:G:1616:ALA:HB2	2.46	0.43
1:G:1885:ILE:HG13	1:G:1886:LYS:HG2	2.00	0.43
2:H:128:LYS:HA	2:H:131:GLU:OE1	2.18	0.43
1:A:224:ARG:NH1	1:A:227:ARG:HH22	2.17	0.43
1:A:719:PRO:HG3	1:A:728:PHE:CD2	2.54	0.43
1:A:784:VAL:HG13	1:A:908:LEU:CD1	2.49	0.43
1:A:951:ARG:NE	1:A:954:THR:HG21	2.34	0.43
1:A:1122:GLU:OE1	1:A:1124:GLU:HG3	2.19	0.43
1:A:1156:THR:OG1	1:A:1157:VAL:N	2.51	0.43
1:A:1421:LEU:HD21	1:A:1462:LEU:HA	2.01	0.43
1:A:1575:PRO:O	1:A:1579:ILE:HD12	2.19	0.43
1:A:1629:GLU:OE2	1:A:1658:SER:HA	2.18	0.43
1:A:1653:ASN:CG	1:A:1881:ALA:H	2.25	0.43
1:A:2015:GLN:N	1:A:2016:PRO:HD2	2.33	0.43
2:B:140:PRO:HA	2:B:143:LEU:HD22	2.00	0.43
1:C:466:ARG:HB3	1:C:616:TYR:HD1	1.83	0.43
1:C:1173:ARG:HA	1:C:1287:LEU:HD21	2.01	0.43
1:C:1617:ALA:HB2	1:C:1693:TYR:HB2	2.01	0.43
1:C:1772:LYS:NZ	1:C:1882:PHE:HB3	2.33	0.43
1:C:1872:ARG:NH1	1:C:1896:GLU:HG2	2.34	0.43
1:C:2015:GLN:N	1:C:2016:PRO:HD2	2.33	0.43
2:D:90:PHE:CZ	2:D:141:GLN:HG2	2.53	0.43
1:E:1557:ASN:O	1:E:1561:ILE:HG12	2.19	0.43
1:E:1583:TYR:CD2	1:E:1886:LYS:HD3	2.53	0.43
1:G:283:LEU:HB2	1:G:338:LEU:HD13	2.00	0.43
1:G:1421:LEU:HD21	1:G:1462:LEU:HA	2.01	0.43
1:G:1579:ILE:HG22	1:G:1886:LYS:HZ2	1.84	0.43
1:G:1583:TYR:CD2	1:G:1886:LYS:HD3	2.53	0.43
1:G:1772:LYS:NZ	1:G:1882:PHE:HB3	2.33	0.43
1:G:1856:PHE:HA	1:G:1862:ALA:HA	2.00	0.43

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:204:PRO:C	1:A:206:LEU:H	2.27	0.43
1:A:215:VAL:O	1:A:219:ASN:ND2	2.52	0.43
1:A:574:VAL:HG12	1:A:602:ALA:HB3	2.00	0.43
1:A:1056:THR:HA	1:A:1060:PRO:HG3	1.99	0.43
1:A:1259:TRP:CG	1:A:1263:ASN:HD21	2.37	0.43
1:A:1400:VAL:O	1:A:1403:VAL:HB	2.19	0.43
1:A:1903:GLU:O	1:A:1907:GLU:OE1	2.36	0.43
2:B:80:ILE:HG23	2:B:112:LEU:CD1	2.48	0.43
1:C:204:PRO:C	1:C:206:LEU:H	2.27	0.43
1:C:252:PRO:HB2	1:C:254:ARG:CZ	2.49	0.43
1:C:719:PRO:HG3	1:C:728:PHE:CD2	2.54	0.43
1:C:1168:LEU:HA	1:C:1171:ILE:HD12	2.01	0.43
1:C:1413:LEU:HA	1:C:1416:VAL:HG22	2.01	0.43
1:C:1606:LYS:O	1:C:1610:LEU:HD23	2.18	0.43
1:C:1638:ARG:HD3	1:C:1638:ARG:H	1.82	0.43
2:D:9:VAL:HG12	2:D:78:PHE:CZ	2.53	0.43
2:D:97:TRP:CD1	2:D:100:GLU:OE1	2.72	0.43
1:E:239:ASP:OD2	1:E:1137:SER:HB2	2.18	0.43
1:E:281:LEU:HD22	1:E:338:LEU:HD21	2.00	0.43
1:E:551:LEU:HD11	1:E:621:LEU:HD23	2.00	0.43
1:E:1848:ARG:O	1:E:1878:THR:HG23	2.17	0.43
1:G:129:TYR:O	1:G:135:SER:HB2	2.19	0.43
1:G:331:TYR:HD2	1:G:537:ALA:HB3	1.84	0.43
1:G:968:ILE:O	1:G:972:VAL:HG22	2.19	0.43
1:G:1173:ARG:HA	1:G:1287:LEU:HD21	2.01	0.43
1:G:1575:PRO:O	1:G:1579:ILE:HD12	2.19	0.43
1:G:1606:LYS:O	1:G:1610:LEU:HD23	2.18	0.43
1:G:1827:PRO:HA	1:G:1850:PHE:CD1	2.53	0.43
1:G:1954:LEU:HA	1:G:1971:ARG:NH1	2.34	0.43
1:G:2015:GLN:N	1:G:2016:PRO:HD2	2.33	0.43
1:A:283:LEU:HB3	1:A:293:SER:HB2	2.01	0.43
1:A:999:PHE:O	1:A:1002:SER:OG	2.36	0.43
1:A:1403:VAL:HA	1:A:1409:ARG:CZ	2.49	0.43
1:A:1406:SER:OG	1:A:1407:GLU:OE1	2.34	0.43
1:A:1510:LEU:HD12	1:A:1511:SER:N	2.34	0.43
1:A:1617:ALA:HB2	1:A:1693:TYR:HB2	2.01	0.43
1:C:1607:HIS:CB	1:C:1616:ALA:HB2	2.46	0.43
1:C:1718:ARG:HD2	1:C:1720:TYR:OH	2.18	0.43
1:C:1802:ILE:CG2	1:C:1821:GLN:HG3	2.49	0.43
1:C:1903:GLU:O	1:C:1907:GLU:OE1	2.36	0.43
1:E:129:TYR:O	1:E:135:SER:HB2	2.19	0.43

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:277:ILE:HA	1:E:343:GLU:O	2.18	0.43
1:E:824:ASP:OD2	1:E:826:ARG:HB2	2.19	0.43
1:E:968:ILE:O	1:E:972:VAL:HG22	2.19	0.43
1:E:1027:ARG:HH11	1:E:1031:SER:CB	2.32	0.43
1:E:1058:ASN:ND2	1:E:1109:LEU:HB2	2.33	0.43
1:E:1122:GLU:OE1	1:E:1124:GLU:HG3	2.19	0.43
1:E:1474:ILE:CG2	1:E:1476:THR:HG22	2.49	0.43
1:E:1931:GLN:NE2	2:F:56:TRP:CH2	2.87	0.43
1:E:2005:ARG:HD3	1:E:2005:ARG:HA	1.72	0.43
1:G:544:HIS:HB2	1:G:777:HIS:NE2	2.32	0.43
1:G:718:HIS:CD2	1:G:719:PRO:HD2	2.53	0.43
1:G:784:VAL:HG13	1:G:908:LEU:CD1	2.49	0.43
1:G:1845:TYR:CE1	1:G:1883:PRO:HD2	2.54	0.43
1:A:1002:SER:OG	1:A:1003:ASP:N	2.51	0.43
1:A:1049:CYS:C	1:A:1051:HIS:H	2.27	0.43
1:A:1283:ARG:O	1:A:1287:LEU:HG	2.18	0.43
1:A:1413:LEU:HA	1:A:1416:VAL:HG22	2.01	0.43
1:C:772:LEU:HD23	1:C:772:LEU:HA	1.76	0.43
1:C:1058:ASN:ND2	1:C:1109:LEU:HB2	2.33	0.43
1:C:1113:LEU:HD11	1:C:1139:VAL:HG22	2.01	0.43
1:C:1786:LEU:HB2	1:C:1790:TYR:HE1	1.84	0.43
1:C:1854:THR:OG1	1:C:1854:THR:O	2.37	0.43
1:C:1873:LYS:HD3	1:C:1873:LYS:HA	1.85	0.43
1:C:2005:ARG:HD3	1:C:2005:ARG:HA	1.72	0.43
2:D:5:LYS:HD3	2:D:74:GLN:O	2.19	0.43
1:E:915:GLN:O	1:E:919:SER:N	2.52	0.43
1:E:1761:PHE:HB3	1:E:1764:LEU:CB	2.44	0.43
2:F:8:VAL:C	2:F:16:LYS:HZ1	2.27	0.43
2:F:80:ILE:O	2:F:112:LEU:HA	2.19	0.43
2:F:94:ARG:HE	2:F:145:MET:HE3	1.84	0.43
2:F:97:TRP:CD1	2:F:100:GLU:OE1	2.72	0.43
2:F:125:THR:HA	2:F:128:LYS:HG2	2.01	0.43
1:G:125:ARG:HH22	1:G:1003:ASP:HA	1.83	0.43
1:G:215:VAL:O	1:G:219:ASN:ND2	2.52	0.43
1:G:247:CYS:HA	1:G:826:ARG:NH1	2.34	0.43
1:G:252:PRO:HB2	1:G:254:ARG:CZ	2.49	0.43
1:G:509:PHE:CE2	1:G:523:ASP:HB2	2.50	0.43
1:G:824:ASP:OD2	1:G:826:ARG:HB2	2.19	0.43
1:G:834:ALA:O	1:G:838:TYR:HB2	2.19	0.43
1:G:951:ARG:NE	1:G:954:THR:HG21	2.33	0.43
1:G:1501:ARG:O	1:G:1505:GLN:OE1	2.36	0.43

*Continued on next page...*



*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1653:ASN:CG	1:G:1881:ALA:H	2.25	0.43
1:G:1824:TYR:CE1	2:H:26:ASN:O	2.72	0.43
1:G:1872:ARG:NH1	1:G:1896:GLU:HG2	2.34	0.43
2:H:140:PRO:HA	2:H:143:LEU:HD22	1.99	0.43
1:A:152:GLN:H	1:A:152:GLN:CD	2.26	0.42
1:A:252:PRO:HB2	1:A:254:ARG:NH1	2.33	0.42
1:A:1051:HIS:CE1	1:A:1053:HIS:H	2.37	0.42
1:A:1557:ASN:O	1:A:1561:ILE:HG12	2.19	0.42
1:A:1595:LEU:O	1:A:1599:TRP:HD1	2.02	0.42
1:C:215:VAL:O	1:C:219:ASN:ND2	2.52	0.42
1:C:1021:TYR:HA	1:C:1024:VAL:CG1	2.47	0.42
1:C:1027:ARG:HH11	1:C:1031:SER:CB	2.32	0.42
1:C:1285:LEU:HD23	1:C:1288:LEU:HD12	2.01	0.42
1:C:1400:VAL:O	1:C:1403:VAL:HB	2.19	0.42
1:C:1595:LEU:O	1:C:1599:TRP:HD1	2.02	0.42
1:E:1113:LEU:HD11	1:E:1139:VAL:HG22	2.01	0.42
1:E:1142:LEU:HG	1:E:1146:HIS:NE2	2.33	0.42
1:E:1430:ALA:O	1:E:1434:GLN:HG3	2.19	0.42
1:E:1595:LEU:O	1:E:1599:TRP:HD1	2.02	0.42
2:F:5:LYS:HB3	2:F:76:ASP:HB2	2.01	0.42
1:G:252:PRO:HB2	1:G:254:ARG:NH1	2.33	0.42
1:G:281:LEU:HD22	1:G:338:LEU:HD21	2.00	0.42
1:G:785:ARG:NH2	1:G:789:ARG:HH11	2.16	0.42
1:G:1139:VAL:O	1:G:1143:LEU:HD23	2.19	0.42
1:G:1142:LEU:HG	1:G:1146:HIS:NE2	2.33	0.42
1:G:1551:VAL:HG12	1:G:1555:MET:CE	2.49	0.42
1:G:1552:GLN:HA	1:G:1555:MET:HG2	2.01	0.42
1:G:1676:LYS:HG3	1:G:1677:HIS:N	2.33	0.42
1:A:743:LEU:HG	1:A:744:LYS:H	1.84	0.42
1:A:824:ASP:OD2	1:A:826:ARG:HB2	2.19	0.42
1:A:1727:HIS:CG	1:C:1734:PHE:CD2	3.07	0.42
1:A:1802:ILE:CG2	1:A:1821:GLN:HG3	2.49	0.42
1:C:239:ASP:OD2	1:C:1137:SER:HB2	2.18	0.42
1:C:252:PRO:HB2	1:C:254:ARG:NH1	2.33	0.42
1:C:283:LEU:HB3	1:C:293:SER:HB2	2.01	0.42
1:C:574:VAL:HG12	1:C:602:ALA:HB3	2.00	0.42
1:C:820:GLU:HA	1:C:823:GLN:HG3	2.01	0.42
1:C:1150:PRO:HA	1:C:1153:ALA:HB2	2.01	0.42
1:C:1260:VAL:O	1:C:1264:THR:OG1	2.30	0.42
1:C:1500:ALA:HA	1:C:1503:LYS:HE2	2.00	0.42
1:C:1727:HIS:O	1:C:1731:GLN:CD	2.63	0.42

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:112:LEU:HG	2:D:154:TYR:HE1	1.84	0.42
1:E:47:LEU:HD12	1:E:1115:THR:HG23	2.01	0.42
1:E:224:ARG:NH1	1:E:227:ARG:HH22	2.17	0.42
1:E:834:ALA:O	1:E:838:TYR:HB2	2.19	0.42
1:E:1539:ASP:HB3	1:E:1547:PHE:HZ	1.83	0.42
1:E:1600:LEU:HA	1:E:1603:MET:CE	2.49	0.42
1:E:1737:ILE:HD13	1:E:1737:ILE:HA	1.90	0.42
1:E:1872:ARG:HB3	1:E:1896:GLU:OE2	2.20	0.42
1:G:47:LEU:HD12	1:G:1115:THR:HG23	2.02	0.42
1:G:239:ASP:OD2	1:G:1137:SER:HB2	2.18	0.42
1:G:252:PRO:O	1:G:254:ARG:HG2	2.19	0.42
1:G:912:LEU:C	1:G:912:LEU:HD12	2.44	0.42
1:G:1600:LEU:HA	1:G:1603:MET:CE	2.49	0.42
1:G:1695:THR:HA	1:G:1700:TYR:HE1	1.82	0.42
1:G:1722:LYS:O	1:G:1726:VAL:HG12	2.20	0.42
1:G:1727:HIS:O	1:G:1731:GLN:CD	2.63	0.42
1:G:1786:LEU:HB2	1:G:1790:TYR:HE1	1.84	0.42
1:G:1809:ASP:HB2	1:G:1812:LYS:HE2	2.00	0.42
2:H:98:TYR:OH	2:H:102:ARG:NH1	2.51	0.42
1:A:1139:VAL:O	1:A:1143:LEU:HD23	2.19	0.42
1:A:1722:LYS:O	1:A:1726:VAL:HG12	2.20	0.42
1:A:1753:ARG:HE	1:A:1823:THR:CB	2.33	0.42
1:A:1845:TYR:CE1	1:A:1883:PRO:HD2	2.54	0.42
2:B:88:ALA:O	2:B:92:ASN:ND2	2.53	0.42
1:C:125:ARG:HH22	1:C:1003:ASP:HA	1.83	0.42
1:C:128:GLN:O	1:C:134:TYR:HB2	2.19	0.42
1:C:656:PHE:HB2	1:C:681:PRO:HD3	2.01	0.42
1:C:1059:LEU:CD1	1:C:1062:CYS:HB3	2.48	0.42
1:C:1396:LEU:O	1:C:1400:VAL:HG23	2.19	0.42
2:D:94:ARG:HE	2:D:145:MET:CE	2.31	0.42
1:E:614:GLU:H	1:E:614:GLU:CD	2.26	0.42
1:E:683:PRO:O	1:E:684:SER:OG	2.27	0.42
1:E:1501:ARG:O	1:E:1505:GLN:OE1	2.36	0.42
1:E:1757:TYR:CE1	1:E:1808:VAL:HG21	2.55	0.42
1:E:1954:LEU:HA	1:E:1971:ARG:NH1	2.34	0.42
1:G:574:VAL:HG12	1:G:602:ALA:HB3	2.00	0.42
1:G:683:PRO:HA	1:G:685:TYR:CD1	2.55	0.42
1:G:915:GLN:O	1:G:919:SER:N	2.52	0.42
1:G:1113:LEU:HD11	1:G:1139:VAL:HG22	2.01	0.42
1:G:1510:LEU:HD12	1:G:1511:SER:N	2.34	0.42
1:G:1802:ILE:CG2	1:G:1821:GLN:HG3	2.49	0.42

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1848:ARG:HG3	1:G:1878:THR:OG1	2.19	0.42
2:H:94:ARG:HE	2:H:145:MET:CE	2.31	0.42
1:A:125:ARG:NH2	1:A:1003:ASP:OD1	2.49	0.42
1:A:1158:LYS:O	1:A:1159:ALA:C	2.62	0.42
1:A:1430:ALA:O	1:A:1434:GLN:HG3	2.19	0.42
1:A:1552:GLN:O	1:A:1555:MET:HG2	2.19	0.42
1:A:1552:GLN:HA	1:A:1555:MET:HG2	2.01	0.42
1:A:1987:LYS:HZ2	1:A:1991:LEU:HD11	1.83	0.42
2:B:5:LYS:HB3	2:B:76:ASP:HB2	2.01	0.42
2:B:16:LYS:NZ	2:B:58:THR:H	2.14	0.42
2:B:112:LEU:HG	2:B:154:TYR:HE1	1.84	0.42
2:B:169:PHE:O	2:B:173:ILE:HG12	2.19	0.42
1:C:244:VAL:H	1:C:246:ARG:HH11	1.66	0.42
1:C:281:LEU:HD22	1:C:338:LEU:HD21	2.00	0.42
1:C:834:ALA:O	1:C:838:TYR:HB2	2.19	0.42
1:C:968:ILE:O	1:C:972:VAL:HG22	2.18	0.42
1:C:1173:ARG:HA	1:C:1287:LEU:HD11	2.02	0.42
1:C:1421:LEU:HD21	1:C:1462:LEU:HA	2.01	0.42
1:C:1856:PHE:HA	1:C:1862:ALA:HA	2.00	0.42
2:D:128:LYS:HA	2:D:131:GLU:OE1	2.18	0.42
1:E:142:GLN:O	1:E:146:GLN:HG2	2.18	0.42
1:E:252:PRO:HB2	1:E:254:ARG:CZ	2.49	0.42
1:E:634:LEU:HD21	1:E:656:PHE:CD1	2.53	0.42
1:E:820:GLU:HA	1:E:823:GLN:HG3	2.01	0.42
1:E:951:ARG:NE	1:E:954:THR:HG21	2.33	0.42
1:E:1064:LEU:HG	1:E:1106:GLN:HG2	2.02	0.42
1:E:1139:VAL:O	1:E:1143:LEU:HD23	2.20	0.42
1:E:1403:VAL:HA	1:E:1409:ARG:CZ	2.49	0.42
1:E:1575:PRO:O	1:E:1579:ILE:HD12	2.19	0.42
1:G:155:GLU:HG2	1:G:156:GLN:N	2.34	0.42
1:G:224:ARG:NH1	1:G:227:ARG:HH22	2.17	0.42
1:G:724:LEU:HB3	1:G:728:PHE:CE2	2.54	0.42
1:G:1462:LEU:HD21	1:G:1488:LEU:HD21	2.01	0.42
1:A:142:GLN:O	1:A:146:GLN:HG2	2.19	0.42
1:A:216:ASP:O	1:A:220:GLU:OE1	2.37	0.42
1:A:656:PHE:HB2	1:A:681:PRO:HD3	2.01	0.42
1:A:726:LYS:HZ2	1:A:760:SER:HB3	1.84	0.42
1:A:1113:LEU:HD11	1:A:1139:VAL:HG22	2.01	0.42
1:A:1168:LEU:HA	1:A:1171:ILE:HD12	2.01	0.42
1:A:1501:ARG:O	1:A:1505:GLN:OE1	2.36	0.42
1:A:1757:TYR:CE1	1:A:1808:VAL:HG21	2.54	0.42

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:128:GLN:O	1:C:131:SER:N	2.40	0.42
1:C:784:VAL:HG13	1:C:908:LEU:CD1	2.49	0.42
1:C:1122:GLU:OE1	1:C:1124:GLU:HG3	2.19	0.42
1:C:1259:TRP:CG	1:C:1263:ASN:HD21	2.37	0.42
1:C:1403:VAL:HA	1:C:1409:ARG:CZ	2.49	0.42
1:C:1462:LEU:HD21	1:C:1488:LEU:HD21	2.01	0.42
1:C:1587:ARG:NH2	1:C:1590:GLN:HE22	2.12	0.42
2:D:94:ARG:HE	2:D:145:MET:HE3	1.84	0.42
1:E:211:ALA:N	1:E:214:ASP:OD1	2.53	0.42
1:E:683:PRO:HA	1:E:685:TYR:CD1	2.55	0.42
1:E:724:LEU:HB3	1:E:728:PHE:CE2	2.54	0.42
1:E:1002:SER:OG	1:E:1003:ASP:N	2.51	0.42
1:E:1462:LEU:HD21	1:E:1488:LEU:HD21	2.01	0.42
1:E:1510:LEU:HD12	1:E:1511:SER:N	2.34	0.42
1:E:1547:PHE:CG	1:E:1548:ALA:N	2.88	0.42
1:E:1552:GLN:O	1:E:1555:MET:HG2	2.20	0.42
1:E:1753:ARG:NH2	1:E:1821:GLN:HG2	2.35	0.42
1:E:1909:MET:HE1	1:E:1974:PHE:CD1	2.46	0.42
2:F:88:ALA:O	2:F:92:ASN:ND2	2.53	0.42
1:G:719:PRO:HG3	1:G:728:PHE:CD2	2.54	0.42
1:G:1027:ARG:HH11	1:G:1031:SER:CB	2.32	0.42
1:G:1430:ALA:O	1:G:1434:GLN:HG3	2.19	0.42
2:H:94:ARG:HE	2:H:145:MET:HE3	1.83	0.42
2:H:164:GLY:O	2:H:168:VAL:N	2.48	0.42
1:A:968:ILE:O	1:A:972:VAL:HG22	2.19	0.42
1:A:1285:LEU:HD23	1:A:1288:LEU:HD12	2.01	0.42
1:A:1629:GLU:O	1:A:1633:LEU:HD23	2.18	0.42
1:A:1753:ARG:NH2	1:A:1821:GLN:HG2	2.35	0.42
2:B:153:LYS:HG3	2:B:154:TYR:N	2.35	0.42
1:C:45:VAL:HG11	1:C:1101:GLY:H	1.85	0.42
1:C:252:PRO:O	1:C:254:ARG:HG2	2.19	0.42
1:C:719:PRO:HB3	1:C:728:PHE:HE2	1.84	0.42
1:C:743:LEU:HG	1:C:744:LYS:H	1.84	0.42
1:C:1430:ALA:O	1:C:1434:GLN:HG3	2.19	0.42
1:C:1453:GLU:OE1	1:C:1453:GLU:N	2.32	0.42
1:C:1613:HIS:HB2	1:C:1697:GLY:HA3	2.02	0.42
1:C:1954:LEU:HA	1:C:1971:ARG:NH1	2.34	0.42
1:E:283:LEU:HB3	1:E:293:SER:HB2	2.01	0.42
1:E:331:TYR:CE2	1:E:538:ARG:HG2	2.55	0.42
1:E:1173:ARG:HA	1:E:1287:LEU:HD21	2.01	0.42
1:E:1259:TRP:CG	1:E:1263:ASN:HD21	2.37	0.42

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1557:ASN:HA	1:E:1560:MET:HE2	2.02	0.42
1:E:1802:ILE:CG2	1:E:1821:GLN:HG3	2.49	0.42
1:E:1848:ARG:HG3	1:E:1878:THR:OG1	2.19	0.42
1:E:1872:ARG:NH1	1:E:1896:GLU:HG2	2.34	0.42
2:F:94:ARG:HE	2:F:145:MET:CE	2.31	0.42
1:G:211:ALA:N	1:G:214:ASP:OD1	2.53	0.42
1:G:244:VAL:H	1:G:246:ARG:HH11	1.66	0.42
1:G:275:GLU:OE2	1:G:344:LYS:HB3	2.20	0.42
1:G:283:LEU:HB3	1:G:293:SER:HB2	2.01	0.42
1:G:1012:PHE:O	1:G:1015:SER:OG	2.25	0.42
1:G:1156:THR:OG1	1:G:1157:VAL:N	2.51	0.42
1:G:1173:ARG:HA	1:G:1287:LEU:HD11	2.02	0.42
1:G:1552:GLN:O	1:G:1555:MET:HG2	2.20	0.42
1:G:1968:ASN:OD1	1:G:1969:LYS:HG3	2.20	0.42
2:H:125:THR:HA	2:H:128:LYS:HG2	2.01	0.42
2:H:153:LYS:HG3	2:H:154:TYR:N	2.35	0.42
1:A:241:ASP:OD1	1:A:242:GLU:N	2.53	0.42
1:A:331:TYR:CE2	1:A:538:ARG:HG2	2.55	0.42
1:A:724:LEU:HB3	1:A:728:PHE:CE2	2.54	0.42
1:A:1130:LEU:HB3	1:A:1134:LYS:NZ	2.35	0.42
1:A:1501:ARG:O	1:A:1502:VAL:C	2.62	0.42
1:A:1547:PHE:CG	1:A:1548:ALA:N	2.87	0.42
1:A:1581:LEU:O	1:A:1584:ARG:HB3	2.20	0.42
1:C:211:ALA:N	1:C:214:ASP:OD1	2.53	0.42
1:C:331:TYR:CE2	1:C:538:ARG:HG2	2.55	0.42
1:C:1002:SER:OG	1:C:1003:ASP:N	2.51	0.42
1:C:1552:GLN:O	1:C:1555:MET:HG2	2.20	0.42
1:C:1753:ARG:HE	1:C:1823:THR:CB	2.33	0.42
1:C:1848:ARG:HG3	1:C:1878:THR:OG1	2.19	0.42
1:C:1872:ARG:HB3	1:C:1896:GLU:OE2	2.19	0.42
2:D:153:LYS:HG3	2:D:154:TYR:N	2.35	0.42
1:E:128:GLN:O	1:E:134:TYR:HB2	2.19	0.42
1:E:241:ASP:OD1	1:E:242:GLU:N	2.53	0.42
1:E:568:ARG:NH2	1:E:643:GLN:HG3	2.35	0.42
1:E:604:THR:HG21	1:E:615:PHE:HD1	1.85	0.42
1:E:907:LEU:HB2	1:E:909:HIS:CE1	2.55	0.42
1:E:1059:LEU:CD1	1:E:1062:CYS:HB3	2.48	0.42
1:E:1551:VAL:HG12	1:E:1555:MET:CE	2.49	0.42
1:E:1629:GLU:O	1:E:1633:LEU:HD23	2.19	0.42
1:E:1937:SER:HA	2:F:37:PHE:CE2	2.55	0.42
2:F:96:LYS:C	2:F:99:PRO:HD2	2.45	0.42

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:820:GLU:HA	1:G:823:GLN:HG3	2.01	0.42
1:G:1149:ASP:HB3	1:G:1152:TYR:HB2	2.02	0.42
1:G:1259:TRP:CG	1:G:1263:ASN:HD21	2.37	0.42
1:G:1486:TYR:HA	1:G:1489:MET:HE3	2.00	0.42
1:G:1565:THR:HA	1:G:1568:MET:HG2	2.02	0.42
1:G:1581:LEU:O	1:G:1584:ARG:HB3	2.20	0.42
1:G:1677:HIS:O	1:G:1679:THR:N	2.40	0.42
2:H:5:LYS:HB3	2:H:76:ASP:HB2	2.01	0.42
1:A:555:PRO:HD2	1:A:617:GLU:O	2.20	0.42
1:A:683:PRO:HA	1:A:685:TYR:CD1	2.55	0.42
1:A:834:ALA:O	1:A:838:TYR:HB2	2.19	0.42
1:A:907:LEU:HB2	1:A:909:HIS:CE1	2.55	0.42
1:A:1776:ILE:CD1	2:B:45:MET:HG2	2.50	0.42
1:A:1785:ARG:O	1:A:1789:PHE:CD2	2.73	0.42
1:C:47:LEU:HD12	1:C:1115:THR:HG23	2.02	0.42
1:C:155:GLU:HG2	1:C:156:GLN:N	2.34	0.42
1:C:517:HIS:HB3	1:C:521:TYR:CG	2.55	0.42
1:C:1809:ASP:O	1:C:1813:LEU:HG	2.20	0.42
2:D:98:TYR:OH	2:D:102:ARG:NH1	2.52	0.42
1:E:51:VAL:O	1:E:1018:ARG:NE	2.52	0.42
1:E:743:LEU:HG	1:E:744:LYS:H	1.84	0.42
1:E:1101:GLY:HA2	1:E:1104:ARG:HG2	2.02	0.42
1:E:1156:THR:OG1	1:E:1157:VAL:N	2.51	0.42
1:E:1168:LEU:HA	1:E:1171:ILE:HD12	2.01	0.42
1:E:1396:LEU:O	1:E:1400:VAL:HG23	2.19	0.42
1:E:1753:ARG:HE	1:E:1823:THR:CB	2.33	0.42
1:E:1824:TYR:CE1	2:F:27:ALA:HA	2.54	0.42
1:E:1845:TYR:CE1	1:E:1883:PRO:HD2	2.54	0.42
2:F:9:VAL:HG12	2:F:78:PHE:CZ	2.53	0.42
1:G:54:LEU:HB3	1:G:59:VAL:HG21	2.02	0.42
1:G:262:LEU:HG	1:G:264:LYS:HZ3	1.85	0.42
1:G:278:PHE:HE2	1:G:391:ARG:HD2	1.85	0.42
1:G:466:ARG:N	1:G:614:GLU:OE2	2.40	0.42
1:G:668:ARG:HD2	1:G:672:PHE:HZ	1.85	0.42
1:G:1009:ASP:O	1:G:1013:VAL:HG23	2.20	0.42
1:G:1500:ALA:HA	1:G:1503:LYS:HE2	2.00	0.42
1:G:1534:THR:O	1:G:1538:GLU:HG2	2.20	0.42
1:G:1718:ARG:HD2	1:G:1720:TYR:OH	2.19	0.42
1:G:1772:LYS:HZ1	1:G:1883:PRO:HA	1.83	0.42
2:H:5:LYS:HD3	2:H:74:GLN:O	2.19	0.42
2:H:97:TRP:CD1	2:H:100:GLU:OE1	2.72	0.42

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:155:GLU:HG2	1:A:156:GLN:N	2.34	0.42
1:A:517:HIS:HB3	1:A:521:TYR:CG	2.55	0.42
1:A:1022:LYS:O	1:A:1026:THR:HG23	2.20	0.42
1:A:1486:TYR:HA	1:A:1489:MET:HE3	2.00	0.42
1:A:1600:LEU:HA	1:A:1603:MET:CE	2.49	0.42
2:B:80:ILE:O	2:B:112:LEU:HA	2.19	0.42
1:C:386:ARG:HA	1:C:386:ARG:HD3	1.89	0.42
1:C:405:VAL:HG13	1:C:449:PHE:CD1	2.55	0.42
1:C:724:LEU:HB3	1:C:728:PHE:CE2	2.54	0.42
1:C:912:LEU:C	1:C:912:LEU:HD12	2.45	0.42
1:C:1130:LEU:HB3	1:C:1134:LYS:NZ	2.35	0.42
1:C:1139:VAL:O	1:C:1143:LEU:HD23	2.19	0.42
1:C:1547:PHE:CG	1:C:1548:ALA:N	2.88	0.42
1:C:1551:VAL:HG12	1:C:1555:MET:CE	2.49	0.42
1:C:1722:LYS:O	1:C:1726:VAL:HG12	2.20	0.42
1:C:1785:ARG:O	1:C:1789:PHE:CD2	2.73	0.42
2:D:88:ALA:O	2:D:92:ASN:ND2	2.53	0.42
1:E:1501:ARG:O	1:E:1502:VAL:C	2.62	0.42
1:E:1510:LEU:HD11	1:E:1558:LEU:HD22	2.02	0.42
1:E:1534:THR:O	1:E:1538:GLU:HG2	2.20	0.42
1:E:1684:VAL:O	1:E:1688:GLU:HG3	2.20	0.42
1:E:1718:ARG:HD2	1:E:1720:TYR:OH	2.19	0.42
1:E:1886:LYS:HE3	1:E:1886:LYS:HB3	1.91	0.42
1:G:51:VAL:O	1:G:1018:ARG:NE	2.52	0.42
1:G:115:MET:HB3	1:G:778:HIS:HE1	1.84	0.42
1:G:128:GLN:O	1:G:131:SER:N	2.40	0.42
1:G:204:PRO:C	1:G:206:LEU:H	2.27	0.42
1:G:743:LEU:HG	1:G:744:LYS:H	1.84	0.42
1:G:1525:LEU:C	1:G:1528:SER:HG	2.19	0.42
1:G:1613:HIS:HB2	1:G:1697:GLY:HA3	2.02	0.42
1:G:1757:TYR:CE1	1:G:1808:VAL:HG21	2.55	0.42
1:A:223:ARG:HE	1:A:1394:ASP:CG	2.21	0.42
1:A:252:PRO:O	1:A:254:ARG:HG2	2.19	0.42
1:A:909:HIS:HA	1:A:912:LEU:CD2	2.50	0.42
1:A:951:ARG:HD3	1:A:959:ARG:NH2	2.30	0.42
1:A:1390:LEU:O	1:A:1393:LEU:HB3	2.20	0.42
1:A:1551:VAL:HG12	1:A:1555:MET:CE	2.49	0.42
1:A:1565:THR:HA	1:A:1568:MET:HG2	2.02	0.42
1:A:1718:ARG:HD2	1:A:1720:TYR:OH	2.19	0.42
1:A:1727:HIS:O	1:A:1731:GLN:CD	2.63	0.42
1:A:1968:ASN:OD1	1:A:1969:LYS:HG3	2.20	0.42

*Continued on next page...*



*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:96:LYS:C	2:B:99:PRO:HD2	2.45	0.42
1:C:826:ARG:O	1:C:992:HIS:NE2	2.53	0.42
1:C:1049:CYS:HA	1:C:1054:TYR:CD2	2.55	0.42
1:C:1510:LEU:HD11	1:C:1558:LEU:HD22	2.02	0.42
1:C:1557:ASN:HA	1:C:1560:MET:HE2	2.02	0.42
1:C:1676:LYS:HG3	1:C:1677:HIS:N	2.33	0.42
2:D:96:LYS:C	2:D:99:PRO:HD2	2.45	0.42
1:E:54:LEU:HB3	1:E:59:VAL:HG21	2.02	0.42
1:E:204:PRO:C	1:E:206:LEU:H	2.27	0.42
1:E:216:ASP:O	1:E:220:GLU:OE1	2.37	0.42
1:E:1785:ARG:O	1:E:1789:PHE:CD2	2.73	0.42
1:E:1869:GLN:N	1:E:1901:PRO:HB3	2.35	0.42
1:G:241:ASP:OD1	1:G:242:GLU:N	2.53	0.42
1:G:1049:CYS:C	1:G:1051:HIS:H	2.27	0.42
1:G:1058:ASN:ND2	1:G:1109:LEU:HB2	2.33	0.42
1:G:1617:ALA:HB2	1:G:1693:TYR:HB2	2.01	0.42
1:A:45:VAL:HG11	1:A:1101:GLY:H	1.85	0.41
1:A:211:ALA:N	1:A:214:ASP:OD1	2.53	0.41
1:A:281:LEU:HD22	1:A:338:LEU:HD21	2.00	0.41
1:A:668:ARG:HD2	1:A:672:PHE:HZ	1.85	0.41
1:A:923:VAL:O	1:A:927:ILE:HG12	2.21	0.41
1:A:951:ARG:CD	1:A:959:ARG:HH21	2.31	0.41
1:A:1371:LYS:O	1:A:1375:GLU:HG2	2.20	0.41
1:A:1462:LEU:HD21	1:A:1488:LEU:HD21	2.01	0.41
1:A:1557:ASN:HA	1:A:1560:MET:HE2	2.02	0.41
2:B:97:TRP:CD1	2:B:100:GLU:OE1	2.72	0.41
1:C:146:GLN:HE21	1:C:234:LEU:HA	1.85	0.41
1:C:555:PRO:HD2	1:C:617:GLU:O	2.20	0.41
1:C:634:LEU:HD21	1:C:656:PHE:CD1	2.53	0.41
1:C:909:HIS:HA	1:C:912:LEU:CD2	2.50	0.41
1:C:1371:LYS:O	1:C:1375:GLU:HG2	2.20	0.41
1:C:1501:ARG:O	1:C:1502:VAL:C	2.62	0.41
1:C:1505:GLN:HA	1:C:1508:MET:CG	2.43	0.41
1:C:1869:GLN:N	1:C:1901:PRO:HB3	2.35	0.41
1:E:75:LEU:HB2	1:E:1061:CYS:SG	2.60	0.41
1:E:224:ARG:HG3	1:E:227:ARG:NH1	2.30	0.41
1:E:331:TYR:HD2	1:E:537:ALA:HB3	1.84	0.41
1:E:517:HIS:HB3	1:E:521:TYR:CG	2.55	0.41
1:E:656:PHE:HB2	1:E:681:PRO:HD3	2.01	0.41
1:E:668:ARG:HD2	1:E:672:PHE:HZ	1.85	0.41
1:E:785:ARG:NH2	1:E:789:ARG:HH11	2.16	0.41

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:912:LEU:C	1:E:912:LEU:HD12	2.45	0.41
1:E:1143:LEU:HA	1:E:1143:LEU:HD13	1.89	0.41
1:E:1371:LYS:O	1:E:1375:GLU:HG2	2.20	0.41
1:E:1613:HIS:HB2	1:E:1697:GLY:HA3	2.02	0.41
1:E:1809:ASP:O	1:E:1813:LEU:HG	2.20	0.41
1:E:1829:PHE:CE1	1:E:1837:ARG:HD3	2.55	0.41
2:F:112:LEU:HG	2:F:154:TYR:HE1	1.84	0.41
1:G:75:LEU:HB2	1:G:1061:CYS:SG	2.60	0.41
1:G:1122:GLU:OE1	1:G:1124:GLU:HG3	2.19	0.41
1:G:1285:LEU:HD23	1:G:1288:LEU:HD12	2.01	0.41
1:G:1390:LEU:O	1:G:1393:LEU:HB3	2.20	0.41
1:G:1403:VAL:HA	1:G:1409:ARG:CZ	2.49	0.41
1:G:1595:LEU:O	1:G:1599:TRP:HD1	2.02	0.41
1:G:1733:ALA:O	1:G:1737:ILE:HG12	2.20	0.41
1:G:1809:ASP:O	1:G:1813:LEU:HG	2.20	0.41
2:H:88:ALA:O	2:H:92:ASN:ND2	2.53	0.41
2:H:96:LYS:C	2:H:99:PRO:HD2	2.45	0.41
1:A:75:LEU:HB2	1:A:1061:CYS:SG	2.60	0.41
1:A:286:VAL:HG12	1:A:473:PHE:CD1	2.56	0.41
1:A:405:VAL:HG13	1:A:449:PHE:CD1	2.55	0.41
1:A:957:LYS:HE2	1:A:957:LYS:HB2	1.83	0.41
1:A:1064:LEU:HG	1:A:1106:GLN:HG2	2.02	0.41
1:A:1165:TYR:C	1:A:1167:PRO:HD2	2.46	0.41
1:A:1431:LEU:HD13	1:A:1434:GLN:OE1	2.20	0.41
1:A:1733:ALA:O	1:A:1737:ILE:HG12	2.20	0.41
1:A:1848:ARG:HG3	1:A:1878:THR:OG1	2.19	0.41
1:C:54:LEU:HB3	1:C:59:VAL:HG21	2.02	0.41
1:C:668:ARG:HD2	1:C:672:PHE:HZ	1.85	0.41
1:C:1049:CYS:C	1:C:1051:HIS:H	2.27	0.41
1:C:1581:LEU:O	1:C:1584:ARG:HB3	2.20	0.41
1:C:1757:TYR:CE1	1:C:1808:VAL:HG21	2.55	0.41
2:D:161:THR:HG22	2:D:163:ARG:CD	2.43	0.41
1:E:252:PRO:O	1:E:254:ARG:HG2	2.19	0.41
1:E:719:PRO:HG3	1:E:728:PHE:CD2	2.54	0.41
1:E:1022:LYS:O	1:E:1026:THR:HG23	2.20	0.41
1:E:1158:LYS:O	1:E:1159:ALA:C	2.62	0.41
1:E:1165:TYR:C	1:E:1167:PRO:HD2	2.45	0.41
1:E:1390:LEU:O	1:E:1393:LEU:HB3	2.20	0.41
1:E:1406:SER:OG	1:E:1407:GLU:OE1	2.34	0.41
1:E:1413:LEU:HA	1:E:1416:VAL:HG22	2.01	0.41
1:E:1421:LEU:HD21	1:E:1462:LEU:HA	2.01	0.41

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1722:LYS:O	1:E:1726:VAL:HG12	2.20	0.41
1:E:1772:LYS:H	1:E:1772:LYS:HG2	1.66	0.41
1:E:1906:ILE:O	1:E:1910:GLN:NE2	2.40	0.41
1:E:1968:ASN:OD1	1:E:1969:LYS:HG3	2.20	0.41
2:F:5:LYS:HD3	2:F:74:GLN:O	2.19	0.41
1:G:405:VAL:HG13	1:G:449:PHE:CD1	2.55	0.41
1:G:1168:LEU:HA	1:G:1171:ILE:HD12	2.01	0.41
1:G:1371:LYS:O	1:G:1375:GLU:HG2	2.20	0.41
1:G:1547:PHE:CG	1:G:1548:ALA:N	2.87	0.41
1:G:1802:ILE:HG21	1:G:1821:GLN:HG3	2.03	0.41
1:A:47:LEU:HD12	1:A:1115:THR:HG23	2.02	0.41
1:A:51:VAL:O	1:A:1018:ARG:NE	2.52	0.41
1:A:568:ARG:NH2	1:A:643:GLN:HG3	2.35	0.41
1:A:604:THR:HG21	1:A:615:PHE:HD1	1.85	0.41
1:A:820:GLU:HA	1:A:823:GLN:HG3	2.01	0.41
1:A:912:LEU:HD12	1:A:912:LEU:C	2.45	0.41
1:A:1009:ASP:O	1:A:1013:VAL:HG23	2.20	0.41
1:A:1720:TYR:O	1:C:1738:MET:CE	2.68	0.41
1:C:683:PRO:HA	1:C:685:TYR:CD1	2.54	0.41
1:C:951:ARG:CD	1:C:959:ARG:HH21	2.31	0.41
1:C:957:LYS:HE2	1:C:957:LYS:HB2	1.84	0.41
1:C:1285:LEU:HD23	1:C:1285:LEU:HA	1.82	0.41
1:C:1751:TYR:CD2	1:C:1772:LYS:HA	2.55	0.41
1:C:1753:ARG:NH2	1:C:1821:GLN:HG2	2.35	0.41
2:D:164:GLY:O	2:D:168:VAL:N	2.48	0.41
1:E:45:VAL:HG11	1:E:1101:GLY:H	1.85	0.41
1:E:103:GLU:H	1:E:103:GLU:CD	2.28	0.41
1:E:275:GLU:OE2	1:E:344:LYS:HB3	2.20	0.41
1:E:1620:MET:HB2	1:E:1620:MET:HE3	1.41	0.41
1:G:719:PRO:HB3	1:G:728:PHE:HE2	1.84	0.41
1:G:907:LEU:HB2	1:G:909:HIS:CE1	2.55	0.41
1:G:1271:ARG:O	1:G:1274:THR:HB	2.21	0.41
1:G:1569:LYS:HE2	1:G:1569:LYS:HA	2.02	0.41
1:G:1684:VAL:O	1:G:1688:GLU:HG3	2.20	0.41
1:G:1753:ARG:HE	1:G:1823:THR:CB	2.33	0.41
1:G:1785:ARG:O	1:G:1789:PHE:CD2	2.73	0.41
2:H:1:MET:HB3	2:H:2:GLN:H	1.65	0.41
2:H:112:LEU:HG	2:H:154:TYR:HE1	1.84	0.41
1:A:115:MET:HB3	1:A:778:HIS:HE1	1.84	0.41
1:A:246:ARG:O	1:A:248:SER:N	2.53	0.41
1:A:1151:ARG:NH2	1:A:1152:TYR:OH	2.30	0.41

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1508:MET:O	1:A:1511:SER:OG	2.36	0.41
1:A:1534:THR:O	1:A:1538:GLU:HG2	2.20	0.41
1:A:1837:ARG:HG2	1:A:1842:ASP:OD1	2.20	0.41
1:A:1869:GLN:N	1:A:1901:PRO:HB3	2.35	0.41
1:A:1937:SER:HA	2:B:37:PHE:CZ	2.54	0.41
2:B:5:LYS:HD3	2:B:74:GLN:O	2.19	0.41
2:B:8:VAL:C	2:B:16:LYS:HZ1	2.28	0.41
2:B:66:ARG:C	2:B:69:PRO:HD2	2.45	0.41
2:B:125:THR:HA	2:B:128:LYS:HG2	2.01	0.41
1:C:51:VAL:O	1:C:1018:ARG:NE	2.52	0.41
1:C:231:LEU:O	1:C:234:LEU:N	2.40	0.41
1:C:246:ARG:O	1:C:248:SER:N	2.53	0.41
1:C:286:VAL:HG12	1:C:473:PHE:CD1	2.56	0.41
1:C:568:ARG:NH2	1:C:643:GLN:HG3	2.35	0.41
1:C:576:TYR:HE2	1:C:578:THR:HG22	1.85	0.41
1:C:1009:ASP:O	1:C:1013:VAL:HG23	2.20	0.41
1:C:1390:LEU:O	1:C:1393:LEU:HB3	2.20	0.41
1:C:1534:THR:O	1:C:1538:GLU:HG2	2.20	0.41
1:C:1552:GLN:HA	1:C:1555:MET:HG2	2.01	0.41
1:C:1600:LEU:HA	1:C:1603:MET:CE	2.49	0.41
1:E:511:LEU:HB2	1:E:530:LYS:HG2	2.02	0.41
1:E:592:LYS:N	1:E:595:CYS:SG	2.94	0.41
1:E:816:HIS:CD2	1:E:829:CYS:HB2	2.56	0.41
1:E:1400:VAL:O	1:E:1403:VAL:HB	2.19	0.41
1:E:1533:LEU:O	1:E:1536:ALA:N	2.54	0.41
1:E:1587:ARG:NH2	1:E:1590:GLN:HE22	2.12	0.41
1:E:1617:ALA:HB2	1:E:1693:TYR:HB2	2.01	0.41
1:E:1932:MET:SD	2:F:56:TRP:CD2	3.13	0.41
1:E:1936:GLY:O	1:E:1940:PRO:HD3	2.21	0.41
1:G:331:TYR:CE2	1:G:538:ARG:HG2	2.55	0.41
1:G:1130:LEU:HB3	1:G:1134:LYS:NZ	2.35	0.41
1:G:1533:LEU:O	1:G:1536:ALA:N	2.53	0.41
1:G:1772:LYS:HZ3	1:G:1883:PRO:HA	1.85	0.41
1:A:216:ASP:O	1:A:219:ASN:N	2.53	0.41
1:A:275:GLU:OE2	1:A:344:LYS:HB3	2.20	0.41
1:A:592:LYS:N	1:A:595:CYS:SG	2.94	0.41
1:A:719:PRO:HB3	1:A:728:PHE:HE2	1.84	0.41
1:A:1684:VAL:O	1:A:1688:GLU:HG3	2.20	0.41
1:A:1809:ASP:O	1:A:1813:LEU:HG	2.20	0.41
1:A:1872:ARG:HB3	1:A:1896:GLU:OE2	2.20	0.41
1:A:1936:GLY:O	1:A:1940:PRO:HD3	2.21	0.41

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:164:GLY:O	2:B:168:VAL:N	2.48	0.41
1:C:241:ASP:OD1	1:C:242:GLU:N	2.53	0.41
1:C:1829:PHE:CE1	1:C:1837:ARG:HD3	2.55	0.41
1:C:1837:ARG:HG2	1:C:1842:ASP:OD1	2.21	0.41
1:C:1923:ASP:OD1	1:C:1924:PRO:HA	2.21	0.41
2:D:80:ILE:O	2:D:112:LEU:HA	2.19	0.41
2:D:125:THR:HA	2:D:128:LYS:HG2	2.01	0.41
1:E:105:LEU:HB3	1:E:109:VAL:HB	2.03	0.41
1:E:115:MET:HB3	1:E:778:HIS:HE1	1.84	0.41
1:E:121:VAL:HG11	1:E:841:ARG:HD2	2.03	0.41
1:E:155:GLU:HG2	1:E:156:GLN:N	2.34	0.41
1:E:909:HIS:HA	1:E:912:LEU:CD2	2.50	0.41
1:E:1012:PHE:O	1:E:1015:SER:OG	2.25	0.41
1:E:1021:TYR:HA	1:E:1024:VAL:CG1	2.47	0.41
1:E:1149:ASP:CB	1:E:1152:TYR:HB2	2.51	0.41
1:E:1149:ASP:HB3	1:E:1152:TYR:HB2	2.02	0.41
1:E:1751:TYR:CD2	1:E:1772:LYS:HA	2.55	0.41
2:F:90:PHE:CG	2:F:137:ILE:HG13	2.56	0.41
1:G:220:GLU:HB2	1:G:224:ARG:NH1	2.36	0.41
1:G:286:VAL:HG12	1:G:473:PHE:CD1	2.56	0.41
1:G:517:HIS:HB3	1:G:521:TYR:CG	2.55	0.41
1:G:656:PHE:HB2	1:G:681:PRO:HD3	2.01	0.41
1:G:816:HIS:CD2	1:G:829:CYS:HB2	2.56	0.41
1:G:909:HIS:HA	1:G:912:LEU:CD2	2.50	0.41
1:G:1059:LEU:CD1	1:G:1062:CYS:HB3	2.48	0.41
1:G:1165:TYR:C	1:G:1167:PRO:HD2	2.46	0.41
1:G:1400:VAL:O	1:G:1403:VAL:HB	2.19	0.41
1:G:1431:LEU:HD13	1:G:1434:GLN:OE1	2.20	0.41
1:G:1501:ARG:O	1:G:1502:VAL:C	2.62	0.41
1:G:1753:ARG:NH2	1:G:1821:GLN:HG2	2.35	0.41
1:A:89:PRO:HA	1:A:119:ASP:CG	2.46	0.41
1:A:220:GLU:HB2	1:A:224:ARG:NH1	2.36	0.41
1:A:231:LEU:O	1:A:234:LEU:N	2.40	0.41
1:A:826:ARG:O	1:A:992:HIS:NE2	2.53	0.41
1:A:1533:LEU:O	1:A:1534:THR:C	2.64	0.41
1:A:1587:ARG:NH2	1:A:1590:GLN:HE22	2.12	0.41
1:A:1829:PHE:CE1	1:A:1837:ARG:HD3	2.55	0.41
1:A:1930:LEU:O	1:A:1934:LEU:HD23	2.21	0.41
2:B:90:PHE:CG	2:B:137:ILE:HG13	2.56	0.41
1:C:105:LEU:HB3	1:C:109:VAL:HB	2.03	0.41
1:C:275:GLU:OE2	1:C:344:LYS:HB3	2.20	0.41

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1790:TYR:O	1:C:1794:PHE:CB	2.56	0.41
2:D:8:VAL:C	2:D:16:LYS:HZ1	2.27	0.41
2:D:66:ARG:C	2:D:69:PRO:HD2	2.45	0.41
1:E:216:ASP:O	1:E:219:ASN:N	2.53	0.41
1:E:555:PRO:HD2	1:E:617:GLU:O	2.20	0.41
1:E:719:PRO:HB3	1:E:728:PHE:HE2	1.84	0.41
1:E:1565:THR:HA	1:E:1568:MET:HG2	2.02	0.41
1:E:1569:LYS:HE2	1:E:1569:LYS:HA	2.02	0.41
1:E:1786:LEU:HB2	1:E:1790:TYR:HE1	1.84	0.41
1:E:1810:LYS:NZ	1:E:1813:LEU:O	2.48	0.41
1:E:1854:THR:OG1	1:E:1854:THR:O	2.37	0.41
1:G:45:VAL:HG11	1:G:1101:GLY:H	1.85	0.41
1:G:923:VAL:O	1:G:927:ILE:HG12	2.20	0.41
1:G:1005:LEU:HD23	1:G:1005:LEU:HA	1.77	0.41
1:G:1064:LEU:HG	1:G:1106:GLN:HG2	2.02	0.41
1:G:1829:PHE:CE1	1:G:1837:ARG:HD3	2.55	0.41
1:G:1869:GLN:N	1:G:1901:PRO:HB3	2.35	0.41
1:G:1982:GLU:HG3	1:G:2007:TYR:OH	2.21	0.41
1:G:2005:ARG:HD3	1:G:2005:ARG:HA	1.72	0.41
2:H:90:PHE:CG	2:H:137:ILE:HG13	2.56	0.41
1:A:1569:LYS:HA	1:A:1569:LYS:HE2	2.02	0.41
1:A:1811:SER:HB2	1:A:1812:LYS:NZ	2.36	0.41
1:C:511:LEU:HB2	1:C:530:LYS:HG2	2.02	0.41
1:C:558:LEU:HD12	1:C:558:LEU:HA	1.90	0.41
1:C:923:VAL:O	1:C:927:ILE:HG12	2.20	0.41
1:C:1064:LEU:HG	1:C:1106:GLN:HG2	2.02	0.41
1:C:1257:VAL:HA	1:C:1260:VAL:HG12	2.03	0.41
1:C:1431:LEU:HD13	1:C:1434:GLN:OE1	2.20	0.41
1:C:1533:LEU:O	1:C:1536:ALA:N	2.53	0.41
1:C:1569:LYS:HE2	1:C:1569:LYS:HA	2.02	0.41
1:C:1620:MET:HE3	1:C:1620:MET:HB2	1.41	0.41
1:C:1653:ASN:CG	1:C:1881:ALA:H	2.25	0.41
1:C:1802:ILE:HG21	1:C:1821:GLN:HG3	2.03	0.41
2:D:143:LEU:O	2:D:147:LYS:HG3	2.20	0.41
1:E:405:VAL:HG13	1:E:449:PHE:CD1	2.55	0.41
1:E:558:LEU:HB3	1:E:613:PRO:HD2	2.03	0.41
1:E:662:LEU:HG	1:E:665:GLY:HA2	2.03	0.41
1:E:1009:ASP:O	1:E:1013:VAL:HG23	2.20	0.41
1:E:1248:GLU:HA	1:E:1248:GLU:OE2	2.21	0.41
1:E:1431:LEU:HD13	1:E:1434:GLN:OE1	2.20	0.41
1:E:1600:LEU:HA	1:E:1603:MET:HE3	2.03	0.41

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1719:ASP:OD1	1:E:1719:ASP:N	2.53	0.41
1:G:252:PRO:HA	1:G:253:PRO:HD3	1.98	0.41
1:G:576:TYR:HE2	1:G:578:THR:HG22	1.85	0.41
1:G:604:THR:HG21	1:G:615:PHE:HD1	1.85	0.41
1:G:1149:ASP:CB	1:G:1152:TYR:HB2	2.51	0.41
1:G:1150:PRO:HA	1:G:1153:ALA:HB2	2.00	0.41
1:G:1179:LEU:HD22	1:G:1250:SER:HB2	2.03	0.41
1:G:1533:LEU:O	1:G:1534:THR:C	2.64	0.41
1:G:1596:ARG:HD2	1:G:1596:ARG:HA	1.74	0.41
1:G:1751:TYR:CD2	1:G:1772:LYS:HA	2.55	0.41
2:H:80:ILE:O	2:H:112:LEU:HA	2.19	0.41
1:A:54:LEU:HB3	1:A:59:VAL:HG21	2.02	0.41
1:A:103:GLU:H	1:A:103:GLU:CD	2.28	0.41
1:A:1173:ARG:HA	1:A:1287:LEU:HD11	2.02	0.41
1:A:1491:GLN:NE2	1:A:1492:ASN:OD1	2.54	0.41
1:A:1910:GLN:HB3	1:A:1914:ARG:NH1	2.36	0.41
1:A:1954:LEU:HA	1:A:1971:ARG:NH1	2.34	0.41
1:C:103:GLU:H	1:C:103:GLU:CD	2.28	0.41
1:C:152:GLN:OE1	1:C:152:GLN:N	2.52	0.41
1:C:832:LEU:O	1:C:835:TYR:HB3	2.21	0.41
1:C:835:TYR:O	1:C:839:ALA:N	2.43	0.41
1:C:1583:TYR:CE1	1:C:1885:ILE:HD11	2.56	0.41
1:C:1684:VAL:O	1:C:1688:GLU:HG3	2.20	0.41
1:C:1936:GLY:O	1:C:1940:PRO:HD3	2.21	0.41
2:D:170:ASP:O	2:D:174:ARG:HG2	2.21	0.41
1:E:581:ASP:HA	1:E:582:PRO:HD3	1.95	0.41
1:E:656:PHE:HB2	1:E:681:PRO:CD	2.51	0.41
1:E:1130:LEU:HB3	1:E:1134:LYS:NZ	2.35	0.41
1:E:1533:LEU:O	1:E:1534:THR:C	2.64	0.41
1:E:1552:GLN:HA	1:E:1555:MET:HG2	2.01	0.41
1:E:1583:TYR:CE1	1:E:1885:ILE:HD11	2.56	0.41
1:E:1727:HIS:O	1:E:1731:GLN:CD	2.63	0.41
2:F:66:ARG:C	2:F:69:PRO:HD2	2.45	0.41
1:G:216:ASP:O	1:G:219:ASN:N	2.53	0.41
1:G:555:PRO:HD2	1:G:617:GLU:O	2.20	0.41
1:G:979:VAL:HG22	1:G:993:LEU:CD1	2.51	0.41
1:G:1178:ARG:NE	1:G:1243:CYS:O	2.54	0.41
1:G:1248:GLU:HA	1:G:1248:GLU:OE2	2.21	0.41
1:G:1474:ILE:CG2	1:G:1476:THR:HG22	2.49	0.41
1:G:1491:GLN:NE2	1:G:1492:ASN:OD1	2.54	0.41
1:G:1761:PHE:HB3	1:G:1764:LEU:CB	2.44	0.41

*Continued on next page...*



*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1802:ILE:HD13	1:G:1802:ILE:HA	1.98	0.41
1:A:60:LEU:HD22	1:A:61:LEU:HD22	2.03	0.41
1:A:281:LEU:HG	1:A:298:PHE:CE1	2.56	0.41
1:A:662:LEU:HG	1:A:665:GLY:HA2	2.03	0.41
1:A:816:HIS:CD2	1:A:829:CYS:HB2	2.56	0.41
1:A:832:LEU:O	1:A:835:TYR:HB3	2.21	0.41
1:A:1101:GLY:O	1:A:1105:GLN:HG3	2.21	0.41
1:A:1149:ASP:HB3	1:A:1152:TYR:HB2	2.02	0.41
1:A:1271:ARG:O	1:A:1274:THR:HB	2.21	0.41
1:A:1474:ILE:HB	1:A:1477:ILE:HD13	2.03	0.41
1:A:1533:LEU:O	1:A:1536:ALA:N	2.53	0.41
1:A:1595:LEU:O	1:A:1598:THR:OG1	2.34	0.41
1:A:1728:GLY:O	1:A:1731:GLN:N	2.54	0.41
2:B:170:ASP:O	2:B:174:ARG:HG2	2.21	0.41
1:C:78:PHE:HE2	1:C:956:ARG:HH21	1.66	0.41
1:C:216:ASP:O	1:C:219:ASN:N	2.53	0.41
1:C:553:VAL:C	1:C:554:TYR:HD1	2.29	0.41
1:C:592:LYS:N	1:C:595:CYS:SG	2.94	0.41
1:C:758:ARG:HH22	1:C:798:VAL:HG12	1.86	0.41
1:C:816:HIS:CD2	1:C:829:CYS:HB2	2.56	0.41
1:C:907:LEU:HB2	1:C:909:HIS:CE1	2.55	0.41
1:C:956:ARG:CA	1:C:959:ARG:HG2	2.44	0.41
1:C:1143:LEU:HA	1:C:1143:LEU:HD13	1.89	0.41
1:C:1728:GLY:O	1:C:1731:GLN:N	2.54	0.41
1:C:1783:SER:O	1:C:1786:LEU:HG	2.21	0.41
1:C:1811:SER:HB2	1:C:1812:LYS:NZ	2.36	0.41
1:C:1922:GLN:HG2	1:C:1925:PRO:HA	2.03	0.41
1:C:1968:ASN:OD1	1:C:1969:LYS:HG3	2.20	0.41
1:C:1982:GLU:HG3	1:C:2007:TYR:OH	2.21	0.41
1:E:125:ARG:NH2	1:E:1003:ASP:OD1	2.49	0.41
1:E:220:GLU:HB2	1:E:224:ARG:NH1	2.36	0.41
1:E:386:ARG:HB3	1:E:387:LEU:HD12	2.03	0.41
1:E:572:VAL:O	1:E:604:THR:OG1	2.22	0.41
1:E:576:TYR:HE2	1:E:578:THR:HG22	1.85	0.41
1:E:923:VAL:O	1:E:927:ILE:HG12	2.20	0.41
1:E:1173:ARG:HA	1:E:1287:LEU:HD11	2.02	0.41
1:E:1271:ARG:O	1:E:1274:THR:HB	2.21	0.41
1:E:1581:LEU:O	1:E:1584:ARG:HB3	2.20	0.41
1:E:1783:SER:O	1:E:1786:LEU:HG	2.21	0.41
1:E:1837:ARG:HG2	1:E:1842:ASP:OD1	2.21	0.41
1:E:1923:ASP:HA	1:E:1925:PRO:HD3	2.03	0.41

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:16:LYS:NZ	2:F:58:THR:H	2.15	0.41
2:F:143:LEU:O	2:F:147:LYS:HG3	2.21	0.41
2:F:153:LYS:HG3	2:F:154:TYR:N	2.35	0.41
1:G:386:ARG:HB3	1:G:387:LEU:HD12	2.03	0.41
1:G:396:TRP:CH2	1:G:479:MET:HE3	2.56	0.41
1:G:568:ARG:NH2	1:G:643:GLN:HG3	2.35	0.41
1:G:592:LYS:N	1:G:595:CYS:SG	2.94	0.41
1:G:656:PHE:HB2	1:G:681:PRO:CD	2.51	0.41
1:G:1022:LYS:O	1:G:1026:THR:HG23	2.20	0.41
1:G:1510:LEU:HD11	1:G:1558:LEU:HD22	2.02	0.41
1:G:1783:SER:O	1:G:1786:LEU:HG	2.21	0.41
1:G:1825:VAL:HB	1:G:1850:PHE:CG	2.56	0.41
1:G:1910:GLN:HB3	1:G:1914:ARG:NH1	2.36	0.41
1:G:1923:ASP:HA	1:G:1925:PRO:HD3	2.03	0.41
1:G:1930:LEU:O	1:G:1934:LEU:HD23	2.21	0.41
1:A:1012:PHE:O	1:A:1015:SER:OG	2.25	0.41
1:A:1101:GLY:HA2	1:A:1104:ARG:HG2	2.02	0.41
1:A:1178:ARG:NE	1:A:1243:CYS:O	2.54	0.41
1:A:1510:LEU:HD11	1:A:1558:LEU:HD22	2.02	0.41
1:A:1583:TYR:CE1	1:A:1885:ILE:HD11	2.56	0.41
1:A:1727:HIS:HE1	1:C:1735:THR:HG23	1.82	0.41
1:A:1734:PHE:HB3	1:C:1727:HIS:CE1	2.56	0.41
1:A:1751:TYR:HD1	1:A:1850:PHE:HZ	1.69	0.41
1:C:218:ARG:HG2	1:C:218:ARG:HH11	1.86	0.41
1:C:604:THR:HG21	1:C:615:PHE:HD1	1.85	0.41
1:C:1152:TYR:C	1:C:1157:VAL:HG11	2.46	0.41
1:C:1491:GLN:NE2	1:C:1492:ASN:OD1	2.54	0.41
1:C:1910:GLN:HB3	1:C:1914:ARG:NH1	2.36	0.41
1:E:1272:TRP:CE2	1:E:1276:LEU:HD11	2.56	0.41
2:F:46:VAL:HG23	2:F:49:LYS:HB2	2.03	0.41
1:G:105:LEU:HB3	1:G:109:VAL:HB	2.03	0.41
1:G:826:ARG:O	1:G:992:HIS:NE2	2.53	0.41
1:G:1010:ARG:HB3	1:G:1014:PHE:CZ	2.56	0.41
1:G:1101:GLY:O	1:G:1105:GLN:HG3	2.21	0.41
1:G:1426:SER:O	1:G:1428:GLN:NE2	2.54	0.41
1:G:1595:LEU:O	1:G:1598:THR:OG1	2.34	0.41
1:G:1680:GLU:O	1:G:1684:VAL:HG23	2.21	0.41
2:H:66:ARG:C	2:H:69:PRO:HD2	2.45	0.41
2:H:143:LEU:O	2:H:147:LYS:HG3	2.20	0.41
1:A:338:LEU:HB3	1:A:401:LEU:HD13	2.03	0.40
1:A:656:PHE:HB2	1:A:681:PRO:CD	2.51	0.40

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:765:ARG:HG3	1:A:766:LEU:N	2.37	0.40
1:A:956:ARG:CA	1:A:959:ARG:HG2	2.44	0.40
1:A:1027:ARG:NH1	1:A:1031:SER:HB2	2.36	0.40
1:C:278:PHE:HE2	1:C:391:ARG:HD2	1.85	0.40
1:C:558:LEU:HB3	1:C:613:PRO:HD2	2.03	0.40
1:C:942:MET:SD	1:C:960:PHE:HZ	2.44	0.40
1:C:951:ARG:HD3	1:C:959:ARG:NH2	2.30	0.40
1:C:1101:GLY:HA2	1:C:1104:ARG:HG2	2.02	0.40
1:C:1149:ASP:HB3	1:C:1152:TYR:HB2	2.02	0.40
1:C:1426:SER:O	1:C:1428:GLN:NE2	2.54	0.40
1:C:1923:ASP:HA	1:C:1925:PRO:HD3	2.03	0.40
2:D:9:VAL:HA	2:D:16:LYS:HZ1	1.87	0.40
1:E:89:PRO:HA	1:E:119:ASP:CG	2.46	0.40
1:E:286:VAL:HG12	1:E:473:PHE:CD1	2.56	0.40
1:E:288:GLU:O	1:E:290:LYS:HG2	2.21	0.40
1:E:396:TRP:CH2	1:E:479:MET:HE3	2.56	0.40
1:E:697:MET:HE3	1:E:699:TRP:HE1	1.86	0.40
1:E:800:LEU:HA	1:E:800:LEU:HD23	1.81	0.40
1:E:1179:LEU:HD22	1:E:1250:SER:HB2	2.03	0.40
1:E:1474:ILE:HB	1:E:1477:ILE:HD13	2.03	0.40
1:E:1552:GLN:HA	1:E:1555:MET:HE3	2.03	0.40
1:E:1910:GLN:HB3	1:E:1914:ARG:NH1	2.36	0.40
1:E:1948:GLU:O	1:E:1952:VAL:HG12	2.22	0.40
1:G:310:ARG:HA	1:G:310:ARG:HD2	1.91	0.40
1:G:338:LEU:HB3	1:G:401:LEU:HD13	2.03	0.40
1:G:919:SER:CB	1:G:924:ARG:HH21	2.34	0.40
1:G:1620:MET:HE3	1:G:1620:MET:HB2	1.41	0.40
1:G:1824:TYR:CD1	2:H:26:ASN:O	2.74	0.40
1:G:1837:ARG:HG2	1:G:1842:ASP:OD1	2.21	0.40
1:G:1872:ARG:HB3	1:G:1896:GLU:OE2	2.20	0.40
1:G:1920:THR:HB	1:G:1921:GLU:OE1	2.21	0.40
1:G:1923:ASP:OD1	1:G:1924:PRO:HA	2.21	0.40
1:G:1936:GLY:O	1:G:1940:PRO:HD3	2.21	0.40
1:A:396:TRP:CH2	1:A:479:MET:HE3	2.56	0.40
1:A:1613:HIS:HB2	1:A:1697:GLY:HA3	2.02	0.40
1:A:1982:GLU:HG3	1:A:2007:TYR:OH	2.21	0.40
2:B:165:LEU:HD12	2:B:165:LEU:HA	1.88	0.40
1:C:60:LEU:HD22	1:C:61:LEU:HD22	2.03	0.40
1:C:75:LEU:HB2	1:C:1061:CYS:SG	2.60	0.40
1:C:89:PRO:HA	1:C:119:ASP:CG	2.46	0.40
1:C:121:VAL:HG11	1:C:841:ARG:HD2	2.03	0.40

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:288:GLU:O	1:C:290:LYS:HG2	2.21	0.40
1:C:1600:LEU:C	1:C:1600:LEU:HD23	2.47	0.40
1:C:1800:GLU:OE1	1:C:1817:LYS:HG3	2.22	0.40
1:C:1872:ARG:CZ	1:C:1896:GLU:HG2	2.52	0.40
1:C:1930:LEU:O	1:C:1934:LEU:HD23	2.21	0.40
2:D:10:GLY:C	2:D:97:TRP:CZ3	2.99	0.40
2:D:11:ASP:OD1	2:D:97:TRP:CZ3	2.74	0.40
2:D:90:PHE:CG	2:D:137:ILE:HG13	2.56	0.40
1:E:278:PHE:HE2	1:E:391:ARG:HD2	1.85	0.40
1:E:826:ARG:O	1:E:992:HIS:NE2	2.53	0.40
1:E:832:LEU:O	1:E:835:TYR:HB3	2.21	0.40
1:E:933:PHE:HA	1:E:936:GLN:HE21	1.87	0.40
1:E:1406:SER:OG	1:E:1407:GLU:N	2.54	0.40
1:E:1491:GLN:NE2	1:E:1492:ASN:OD1	2.54	0.40
1:E:1985:LEU:HD13	1:E:2004:GLU:OE1	2.22	0.40
2:F:170:ASP:O	2:F:174:ARG:HG2	2.21	0.40
1:G:832:LEU:O	1:G:835:TYR:HB3	2.21	0.40
1:G:1101:GLY:HA2	1:G:1104:ARG:HG2	2.02	0.40
1:G:1557:ASN:HA	1:G:1560:MET:HE2	2.02	0.40
1:G:1561:ILE:O	1:G:1565:THR:HG23	2.21	0.40
1:G:1718:ARG:HB3	1:G:1720:TYR:CZ	2.56	0.40
1:G:1872:ARG:CZ	1:G:1896:GLU:HG2	2.52	0.40
1:G:1948:GLU:O	1:G:1952:VAL:HG12	2.22	0.40
2:H:170:ASP:O	2:H:174:ARG:HG2	2.21	0.40
1:A:697:MET:HE3	1:A:699:TRP:HE1	1.87	0.40
1:A:933:PHE:HA	1:A:936:GLN:HE21	1.87	0.40
1:A:959:ARG:N	1:A:959:ARG:HD2	2.37	0.40
1:A:1013:VAL:HA	1:A:1016:LEU:HG	2.04	0.40
1:A:1142:LEU:HG	1:A:1146:HIS:HE2	1.87	0.40
1:A:1149:ASP:CB	1:A:1152:TYR:HB2	2.51	0.40
1:A:1426:SER:O	1:A:1428:GLN:NE2	2.54	0.40
1:A:1751:TYR:CD2	1:A:1772:LYS:HA	2.55	0.40
2:B:5:LYS:NZ	2:B:73:PRO:O	2.51	0.40
1:C:338:LEU:HB3	1:C:401:LEU:HD13	2.03	0.40
1:C:664:HIS:HA	1:C:742:ARG:HH12	1.87	0.40
1:C:697:MET:HE3	1:C:699:TRP:HE1	1.87	0.40
1:C:1049:CYS:SG	1:C:1054:TYR:OH	2.77	0.40
1:C:1149:ASP:CB	1:C:1152:TYR:HB2	2.51	0.40
1:C:1565:THR:HA	1:C:1568:MET:HG2	2.02	0.40
1:C:1798:VAL:C	1:C:1817:LYS:HD2	2.46	0.40
1:E:246:ARG:O	1:E:248:SER:N	2.53	0.40

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:281:LEU:HG	1:E:298:PHE:CE1	2.56	0.40
1:E:531:GLU:O	1:E:532:ILE:HD13	2.21	0.40
1:E:765:ARG:HG3	1:E:766:LEU:N	2.37	0.40
1:E:942:MET:SD	1:E:960:PHE:HZ	2.45	0.40
1:E:1013:VAL:HA	1:E:1016:LEU:HG	2.04	0.40
1:E:1021:TYR:HH	1:E:1045:THR:HG1	1.11	0.40
1:E:1257:VAL:HA	1:E:1260:VAL:HG12	2.03	0.40
1:E:1453:GLU:OE1	1:E:1453:GLU:N	2.32	0.40
1:E:1600:LEU:HD23	1:E:1600:LEU:C	2.47	0.40
1:E:1811:SER:HB2	1:E:1812:LYS:NZ	2.36	0.40
1:E:1922:GLN:HG2	1:E:1925:PRO:HA	2.03	0.40
1:E:1923:ASP:OD1	1:E:1924:PRO:HA	2.21	0.40
1:G:60:LEU:HD22	1:G:61:LEU:HD22	2.03	0.40
1:G:103:GLU:H	1:G:103:GLU:CD	2.28	0.40
1:G:281:LEU:HG	1:G:298:PHE:CE1	2.56	0.40
1:G:765:ARG:HG3	1:G:766:LEU:N	2.37	0.40
1:G:1406:SER:OG	1:G:1407:GLU:N	2.54	0.40
1:G:1617:ALA:HB2	1:G:1693:TYR:HD1	1.87	0.40
1:G:1728:GLY:O	1:G:1731:GLN:N	2.54	0.40
2:H:35:THR:OG1	2:H:36:VAL:N	2.55	0.40
1:A:278:PHE:HE2	1:A:391:ARG:HD2	1.85	0.40
1:A:288:GLU:O	1:A:290:LYS:HG2	2.21	0.40
1:A:386:ARG:HA	1:A:386:ARG:HD3	1.89	0.40
1:A:558:LEU:HB3	1:A:613:PRO:HD2	2.03	0.40
1:A:576:TYR:HE2	1:A:578:THR:HG22	1.85	0.40
1:A:951:ARG:HD3	1:A:959:ARG:NE	2.31	0.40
1:A:1010:ARG:HB3	1:A:1014:PHE:CZ	2.56	0.40
1:A:1369:LYS:HB3	1:A:1373:GLU:OE2	2.22	0.40
1:A:1433:LEU:HD23	1:A:1433:LEU:HA	1.91	0.40
1:A:1719:ASP:OD1	1:A:1719:ASP:N	2.53	0.40
1:A:1786:LEU:HB2	1:A:1790:TYR:HE1	1.84	0.40
1:A:1798:VAL:C	1:A:1817:LYS:HD2	2.46	0.40
1:A:1800:GLU:OE1	1:A:1817:LYS:HG3	2.22	0.40
1:A:1857:THR:HG22	1:A:1868:GLU:O	2.22	0.40
1:A:1923:ASP:HA	1:A:1925:PRO:HD3	2.03	0.40
1:A:1985:LEU:HD13	1:A:2004:GLU:OE1	2.22	0.40
2:B:11:ASP:OD1	2:B:97:TRP:CZ3	2.74	0.40
2:B:143:LEU:O	2:B:147:LYS:HG3	2.20	0.40
1:C:216:ASP:O	1:C:217:ARG:C	2.65	0.40
1:C:217:ARG:O	1:C:221:THR:HG23	2.22	0.40
1:C:959:ARG:HD2	1:C:959:ARG:N	2.37	0.40

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1010:ARG:HB3	1:C:1014:PHE:CZ	2.56	0.40
1:C:1022:LYS:O	1:C:1026:THR:HG23	2.20	0.40
1:C:1165:TYR:C	1:C:1167:PRO:HD2	2.45	0.40
1:C:1369:LYS:HB3	1:C:1373:GLU:OE2	2.22	0.40
1:C:1680:GLU:O	1:C:1684:VAL:HG23	2.21	0.40
1:C:1751:TYR:HD1	1:C:1850:PHE:HZ	1.69	0.40
1:C:1948:GLU:O	1:C:1952:VAL:HG12	2.21	0.40
2:D:5:LYS:NZ	2:D:73:PRO:O	2.51	0.40
2:D:46:VAL:HG23	2:D:49:LYS:HB2	2.03	0.40
1:E:60:LEU:HD22	1:E:61:LEU:HD22	2.03	0.40
1:E:553:VAL:C	1:E:554:TYR:HD1	2.29	0.40
1:E:1053:HIS:C	1:E:1055:VAL:N	2.79	0.40
1:E:1101:GLY:O	1:E:1105:GLN:HG3	2.21	0.40
1:E:1533:LEU:O	1:E:1537:GLU:OE1	2.40	0.40
1:E:1920:THR:HB	1:E:1921:GLU:OE1	2.21	0.40
2:F:165:LEU:HD12	2:F:165:LEU:HA	1.88	0.40
1:G:511:LEU:HB2	1:G:530:LYS:HG2	2.02	0.40
1:G:553:VAL:C	1:G:554:TYR:HD1	2.29	0.40
1:G:909:HIS:HB2	1:G:938:MET:HE1	2.03	0.40
1:G:1013:VAL:HA	1:G:1016:LEU:HG	2.04	0.40
1:G:1117:LEU:HD12	1:G:1168:LEU:HD21	2.04	0.40
1:G:1146:HIS:CD2	1:G:1165:TYR:HH	2.34	0.40
1:G:1600:LEU:HA	1:G:1603:MET:HE3	2.03	0.40
1:G:1687:LEU:HD13	1:G:1710:LEU:HD13	2.04	0.40
1:G:1798:VAL:C	1:G:1817:LYS:HD2	2.46	0.40
1:G:1961:PRO:HA	1:G:1964:PHE:HD2	1.87	0.40
1:A:121:VAL:HG11	1:A:841:ARG:HD2	2.03	0.40
1:A:580:GLU:OE2	1:A:684:SER:N	2.35	0.40
1:A:1152:TYR:C	1:A:1157:VAL:HG11	2.46	0.40
1:A:1260:VAL:O	1:A:1264:THR:OG1	2.30	0.40
1:A:1533:LEU:O	1:A:1537:GLU:OE1	2.40	0.40
1:A:1680:GLU:O	1:A:1684:VAL:HG23	2.21	0.40
1:A:1720:TYR:HA	1:A:1723:LEU:HD12	2.03	0.40
1:A:1790:TYR:O	1:A:1794:PHE:CB	2.56	0.40
1:A:1802:ILE:HG21	1:A:1821:GLN:HG3	2.03	0.40
1:C:291:LYS:NZ	1:C:293:SER:O	2.42	0.40
1:C:466:ARG:CZ	1:C:615:PHE:HA	2.52	0.40
1:C:508:HIS:HB3	1:C:509:PHE:CD1	2.57	0.40
1:C:656:PHE:HB2	1:C:681:PRO:CD	2.51	0.40
1:C:765:ARG:HG3	1:C:766:LEU:N	2.37	0.40
1:C:1027:ARG:NH1	1:C:1031:SER:HB2	2.36	0.40

*Continued on next page...*

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1158:LYS:O	1:C:1159:ALA:C	2.62	0.40
1:C:1453:GLU:HG2	1:C:1454:GLU:N	2.37	0.40
1:C:1705:GLU:HA	1:C:1708:LYS:HD2	2.04	0.40
1:C:1718:ARG:HB3	1:C:1720:TYR:CZ	2.57	0.40
1:C:1733:ALA:O	1:C:1737:ILE:HG12	2.20	0.40
1:C:1920:THR:HB	1:C:1921:GLU:OE1	2.21	0.40
1:E:333:SER:H	1:E:446:PHE:HE2	1.70	0.40
1:E:979:VAL:HG22	1:E:993:LEU:CD1	2.51	0.40
1:E:1010:ARG:HB3	1:E:1014:PHE:CZ	2.56	0.40
1:E:1369:LYS:HB3	1:E:1373:GLU:OE2	2.22	0.40
1:E:1802:ILE:HG21	1:E:1821:GLN:HG3	2.03	0.40
1:E:1825:VAL:HB	1:E:1850:PHE:CG	2.56	0.40
1:E:1961:PRO:HA	1:E:1964:PHE:HD2	1.87	0.40
1:G:89:PRO:HA	1:G:119:ASP:CG	2.46	0.40
1:G:121:VAL:HG11	1:G:841:ARG:HD2	2.03	0.40
1:G:246:ARG:O	1:G:248:SER:N	2.53	0.40
1:G:288:GLU:O	1:G:290:LYS:HG2	2.21	0.40
1:G:449:PHE:CE2	1:G:500:ILE:HG13	2.57	0.40
1:G:789:ARG:NH1	1:G:844:GLY:HA3	2.35	0.40
1:G:1142:LEU:HG	1:G:1146:HIS:HE2	1.87	0.40
1:G:1152:TYR:C	1:G:1157:VAL:HG11	2.46	0.40
1:G:1409:ARG:O	1:G:1413:LEU:HD23	2.22	0.40
1:G:1600:LEU:C	1:G:1600:LEU:HD23	2.47	0.40
1:G:1985:LEU:HD13	1:G:2004:GLU:OE1	2.22	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 PDB entries followed by that with respect to all EM entries.

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	1672/2053 (81%)	1542 (92%)	130 (8%)	0	<b>100</b> <b>100</b>

Continued on next page...



*Continued from previous page...*

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	C	1672/2053 (81%)	1543 (92%)	129 (8%)	0	100	100
1	E	1672/2053 (81%)	1542 (92%)	130 (8%)	0	100	100
1	G	1672/2053 (81%)	1541 (92%)	131 (8%)	0	100	100
2	B	175/184 (95%)	165 (94%)	10 (6%)	0	100	100
2	D	175/184 (95%)	165 (94%)	10 (6%)	0	100	100
2	F	175/184 (95%)	165 (94%)	10 (6%)	0	100	100
2	H	175/184 (95%)	165 (94%)	10 (6%)	0	100	100
All	All	7388/8948 (83%)	6828 (92%)	560 (8%)	0	100	100

There are no Ramachandran outliers to report.

### 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 PDB entries followed by that with respect to all EM entries.

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	1476/1773 (83%)	1476 (100%)	0	100	100
1	C	1476/1773 (83%)	1476 (100%)	0	100	100
1	E	1476/1773 (83%)	1476 (100%)	0	100	100
1	G	1476/1773 (83%)	1476 (100%)	0	100	100
2	B	153/157 (98%)	153 (100%)	0	100	100
2	D	153/157 (98%)	153 (100%)	0	100	100
2	F	153/157 (98%)	153 (100%)	0	100	100
2	H	153/157 (98%)	153 (100%)	0	100	100
All	All	6516/7720 (84%)	6516 (100%)	0	100	100

There are no protein residues with a non-rotameric sidechain to report.

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (76) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	219	ASN
1	A	295	ASN
1	A	301	ASN
1	A	506	ASN
1	A	508	HIS
1	A	559	ASN
1	A	609	HIS
1	A	778	HIS
1	A	909	HIS
1	A	930	HIS
1	A	950	GLN
1	A	1106	GLN
1	A	1383	ASN
1	A	1491	GLN
1	A	1590	GLN
1	A	1731	GLN
1	A	1996	GLN
2	B	39	ASN
2	B	104	HIS
1	C	108	GLN
1	C	124	HIS
1	C	219	ASN
1	C	295	ASN
1	C	301	ASN
1	C	506	ASN
1	C	508	HIS
1	C	559	ASN
1	C	778	HIS
1	C	909	HIS
1	C	930	HIS
1	C	1106	GLN
1	C	1270	GLN
1	C	1383	ASN
1	C	1491	GLN
1	C	1590	GLN
1	C	1731	GLN
1	C	1996	GLN
2	D	104	HIS
1	E	108	GLN
1	E	124	HIS
1	E	219	ASN
1	E	295	ASN
1	E	301	ASN

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
1	E	506	ASN
1	E	609	HIS
1	E	778	HIS
1	E	909	HIS
1	E	930	HIS
1	E	950	GLN
1	E	1106	GLN
1	E	1270	GLN
1	E	1491	GLN
1	E	1590	GLN
1	E	1731	GLN
2	F	2	GLN
2	F	74	GLN
2	F	104	HIS
1	G	108	GLN
1	G	124	HIS
1	G	219	ASN
1	G	295	ASN
1	G	301	ASN
1	G	506	ASN
1	G	508	HIS
1	G	559	ASN
1	G	778	HIS
1	G	909	HIS
1	G	950	GLN
1	G	1106	GLN
1	G	1270	GLN
1	G	1491	GLN
1	G	1590	GLN
1	G	1731	GLN
1	G	1996	GLN
1	G	2000	HIS
2	H	104	HIS

### 5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

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

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

## 5.5 Carbohydrates [i](#)

There are no oligosaccharides 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.

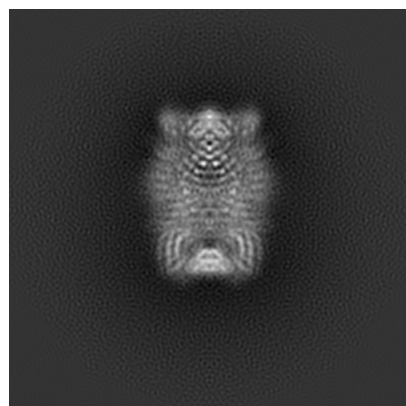
## 6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-65179. These allow visual inspection of the internal detail of the map and identification of artifacts.

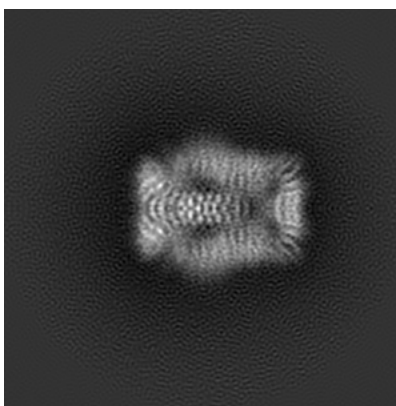
Images derived from a raw map, generated by summing the deposited half-maps, are presented below the corresponding image components of the primary map to allow further visual inspection and comparison with those of the primary map.

### 6.1 Orthogonal projections [i](#)

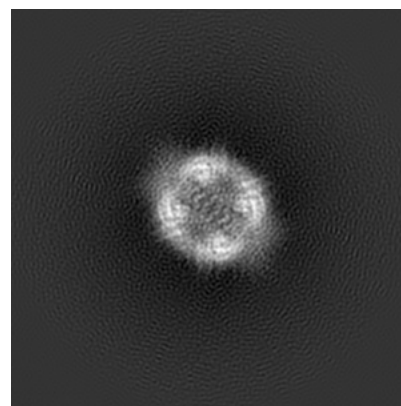
#### 6.1.1 Primary map



X

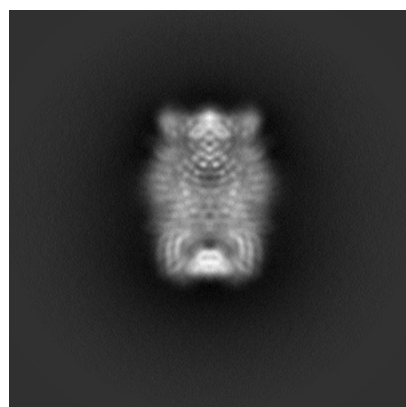


Y

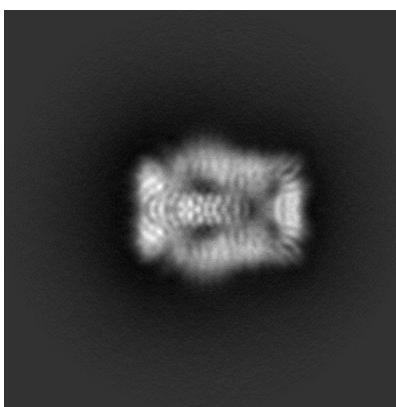


Z

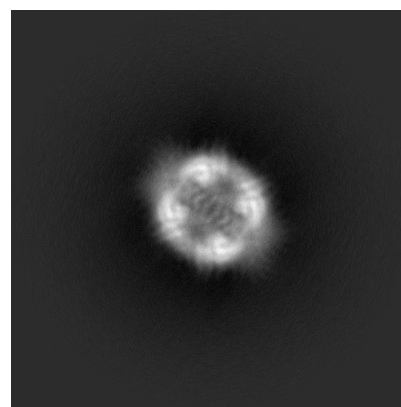
#### 6.1.2 Raw map



X



Y



Z

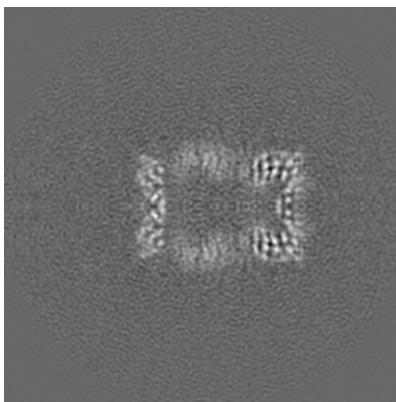
The images above show the map projected in three orthogonal directions.

## 6.2 Central slices [i](#)

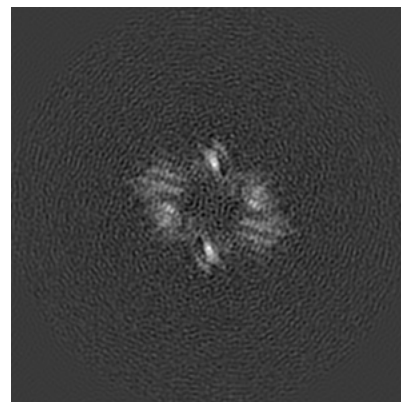
### 6.2.1 Primary map



X Index: 170

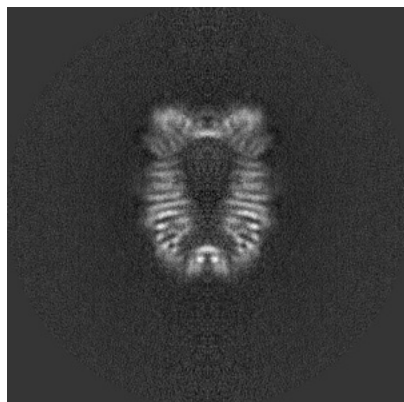


Y Index: 170

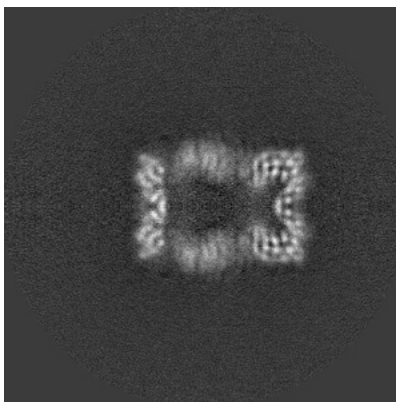


Z Index: 170

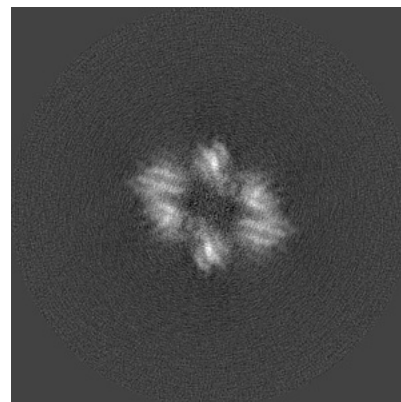
### 6.2.2 Raw map



X Index: 170



Y Index: 170



Z Index: 170

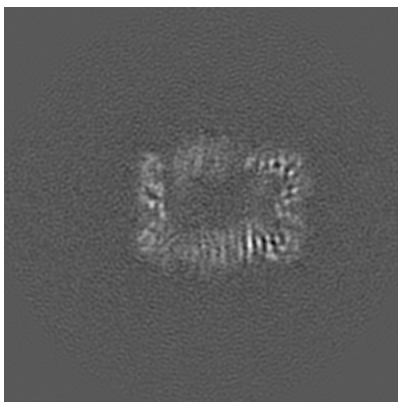
The images above show central slices of the map in three orthogonal directions.

## 6.3 Largest variance slices [i](#)

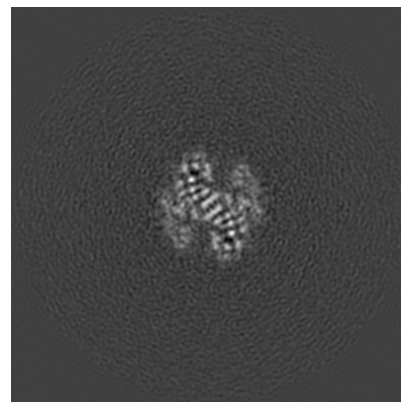
### 6.3.1 Primary map



X Index: 174

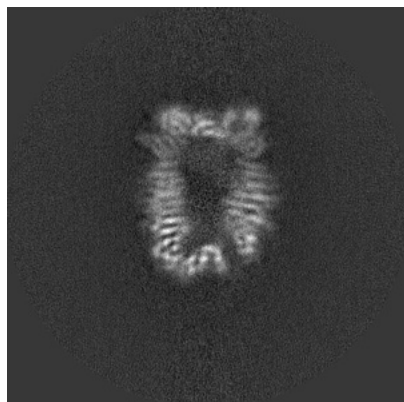


Y Index: 165

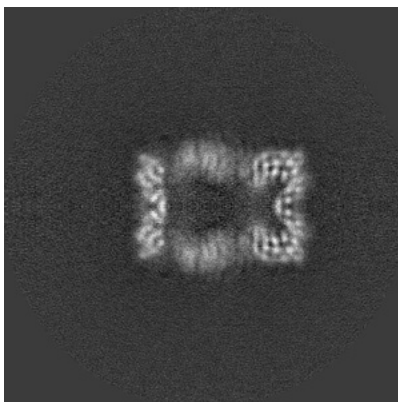


Z Index: 126

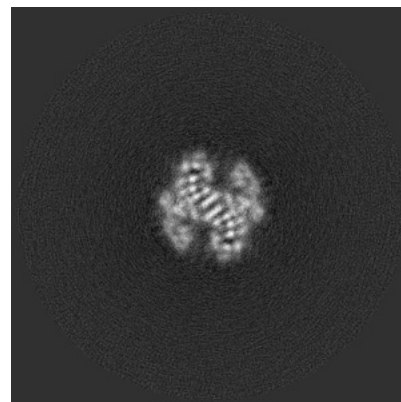
### 6.3.2 Raw map



X Index: 174



Y Index: 170



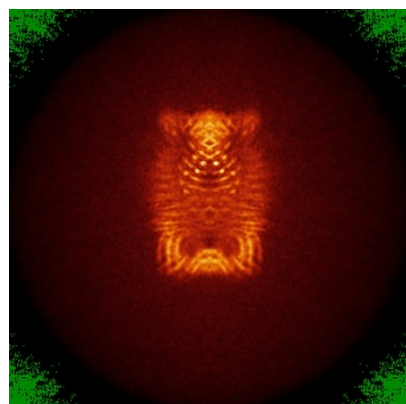
Z Index: 125

The images above show the largest variance slices of the map in three orthogonal directions.

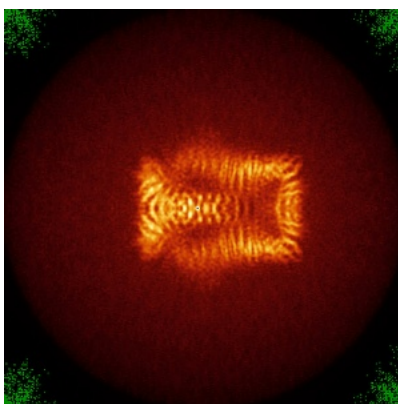


## 6.4 Orthogonal standard-deviation projections (False-color) [i](#)

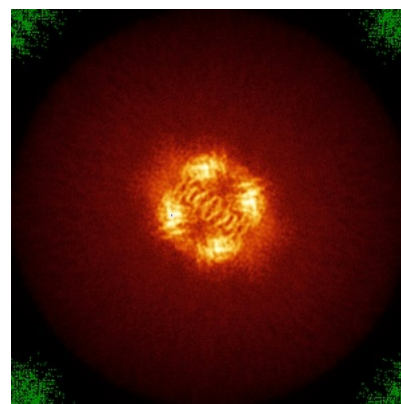
### 6.4.1 Primary map



X

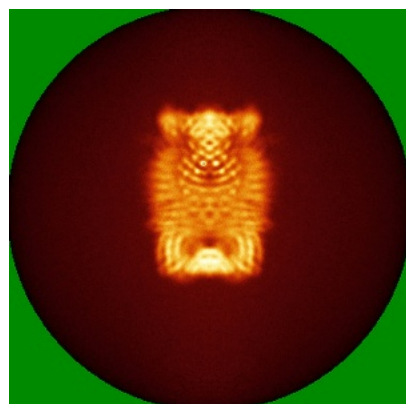


Y

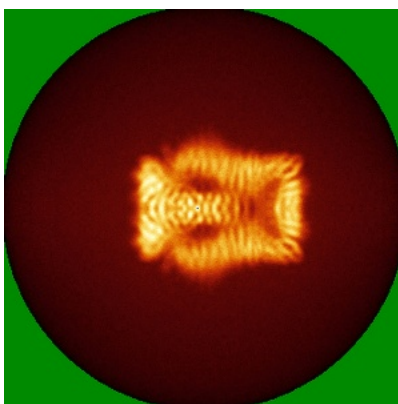


Z

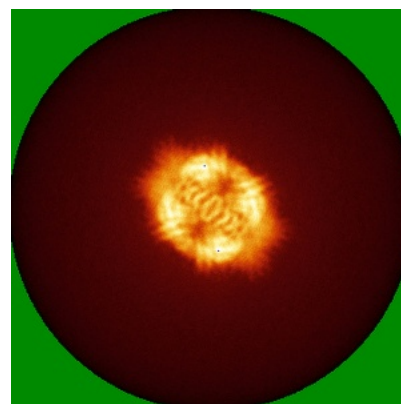
### 6.4.2 Raw map



X



Y

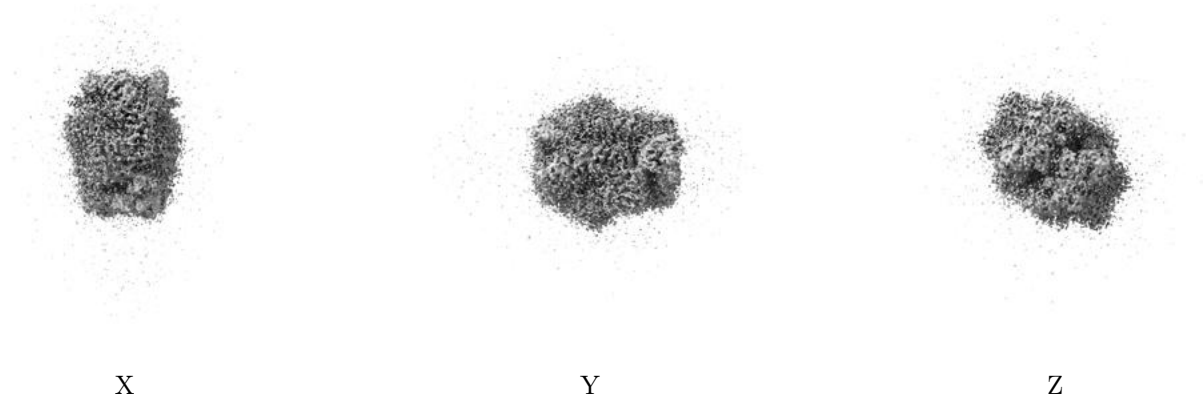


Z

The images above show the map standard deviation projections with false color in three orthogonal directions. Minimum values are shown in green, max in blue, and dark to light orange shades represent small to large values respectively.

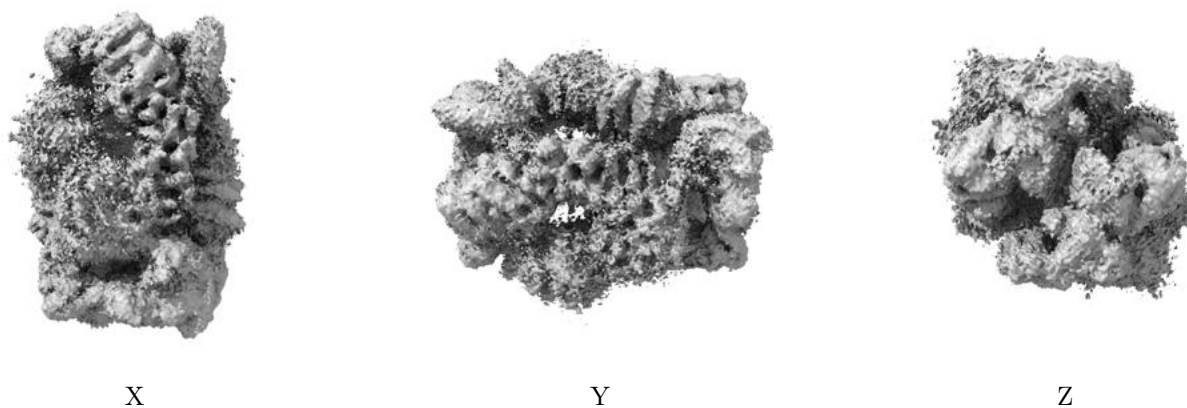
## 6.5 Orthogonal surface views [i](#)

### 6.5.1 Primary map



The images above show the 3D surface view of the map at the recommended contour level 0.01. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

### 6.5.2 Raw map



These images show the 3D surface of the raw map. The raw map's contour level was selected so that its surface encloses the same volume as the primary map does at its recommended contour level.

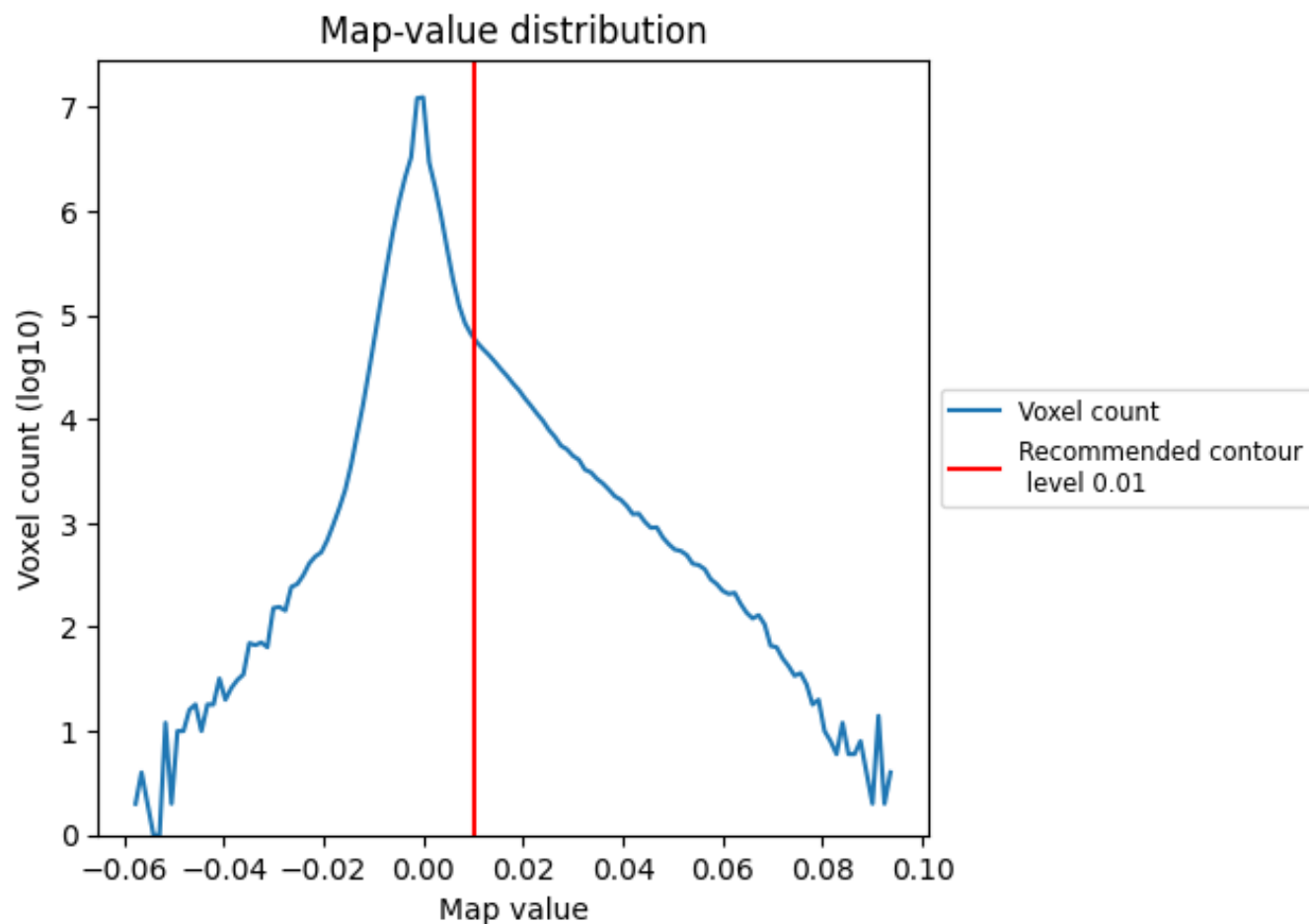
## 6.6 Mask visualisation [i](#)

This section was not generated. No masks/segmentation were deposited.

## 7 Map analysis [i](#)

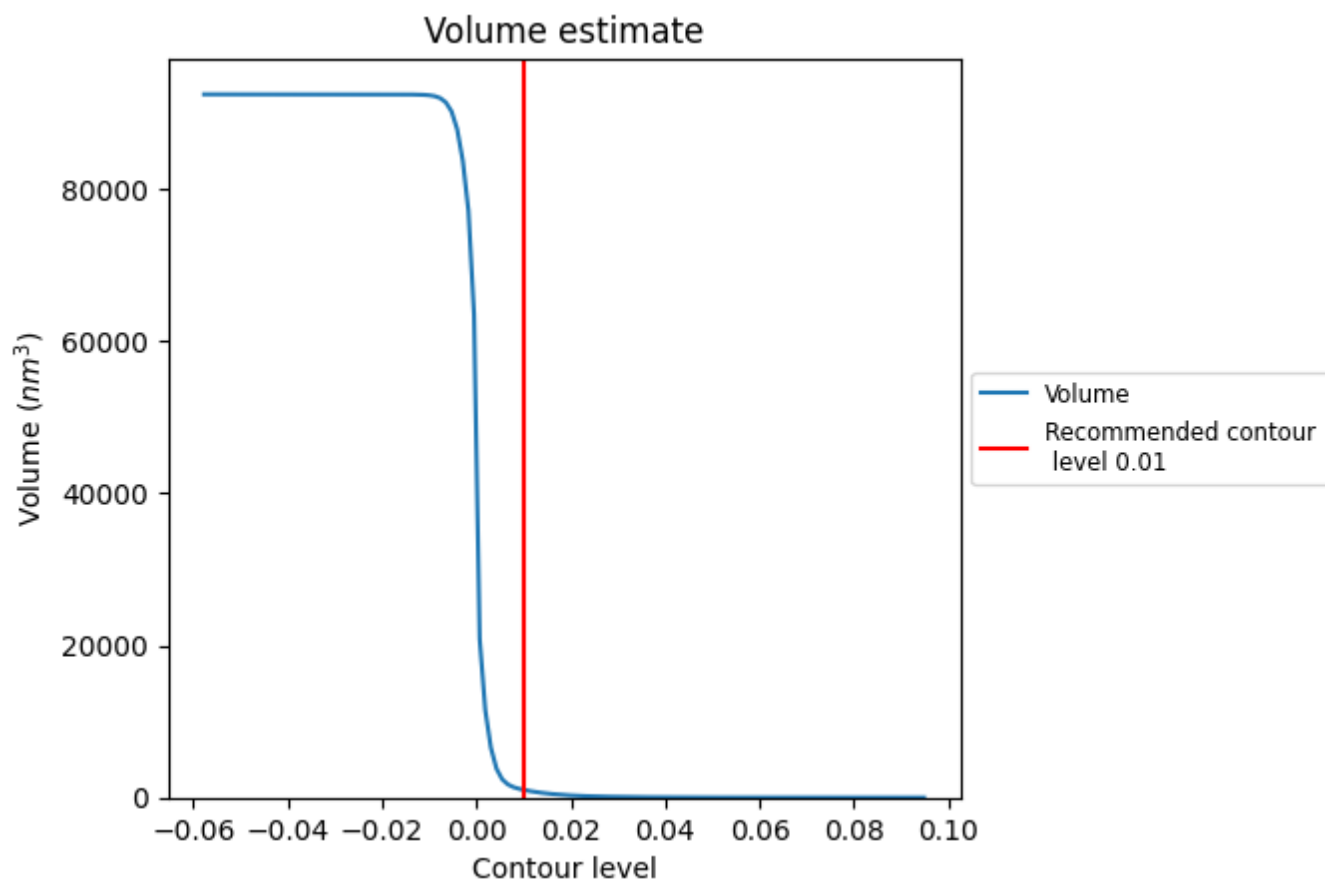
This section contains the results of statistical analysis of the map.

### 7.1 Map-value distribution [i](#)



The map-value distribution is plotted in 128 intervals along the x-axis. The y-axis is logarithmic. A spike in this graph at zero usually indicates that the volume has been masked.

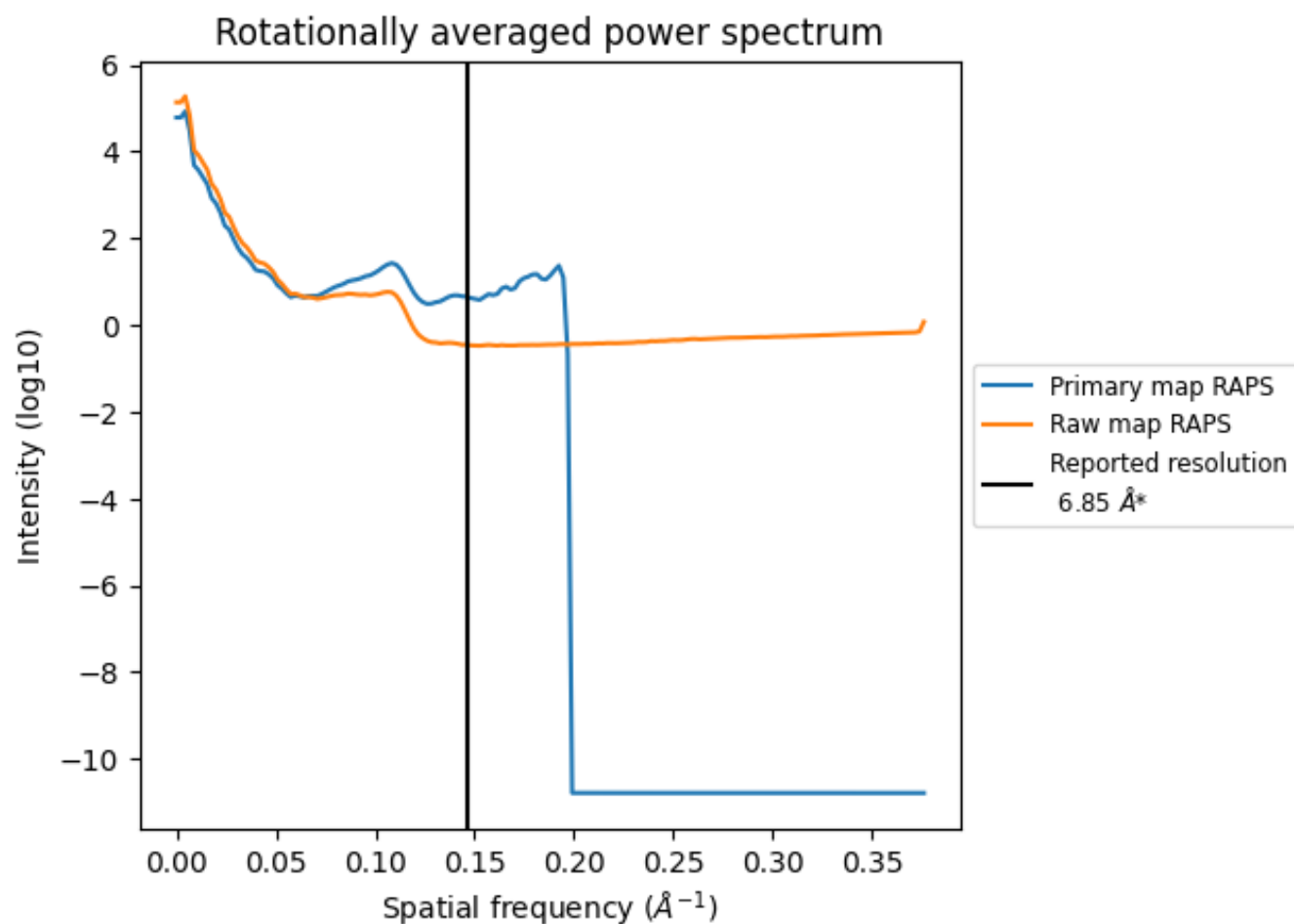
## 7.2 Volume estimate [i](#)



The volume at the recommended contour level is 1014 nm<sup>3</sup>; this corresponds to an approximate mass of 916 kDa.

The volume estimate graph shows how the enclosed volume varies with the contour level. The recommended contour level is shown as a vertical line and the intersection between the line and the curve gives the volume of the enclosed surface at the given level.

### 7.3 Rotationally averaged power spectrum ⓘ

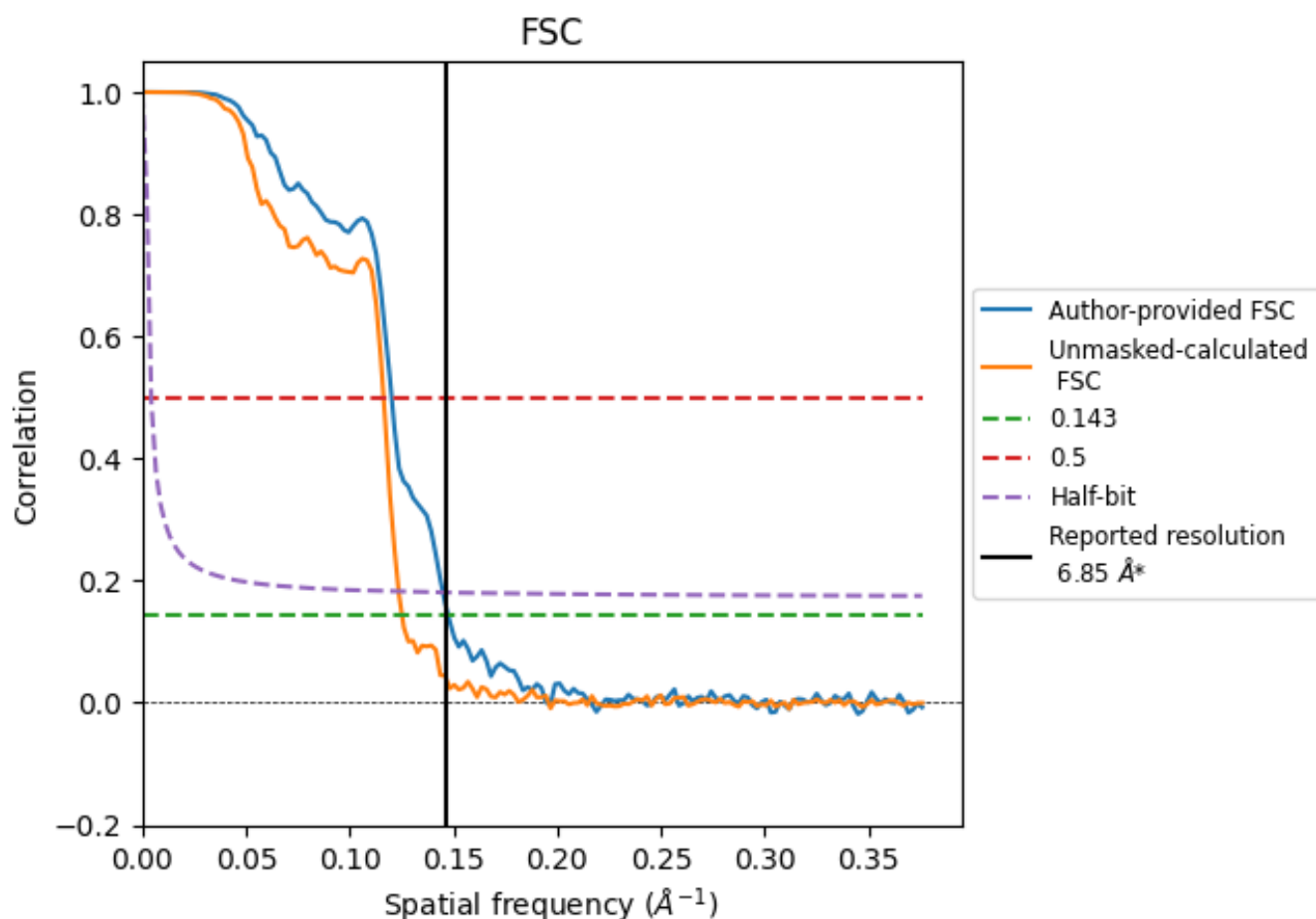


\*Reported resolution corresponds to spatial frequency of 0.146 Å<sup>-1</sup>

## 8 Fourier-Shell correlation [i](#)

Fourier-Shell Correlation (FSC) is the most commonly used method to estimate the resolution of single-particle and subtomogram-averaged maps. The shape of the curve depends on the imposed symmetry, mask and whether or not the two 3D reconstructions used were processed from a common reference. The reported resolution is shown as a black line. A curve is displayed for the half-bit criterion in addition to lines showing the 0.143 gold standard cut-off and 0.5 cut-off.

### 8.1 FSC [i](#)



\*Reported resolution corresponds to spatial frequency of  $0.146 \text{ \AA}^{-1}$

## 8.2 Resolution estimates [i](#)

Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	6.85	-	-
Author-provided FSC curve	6.78	8.32	6.90
Unmasked-calculated*	7.99	8.60	8.08

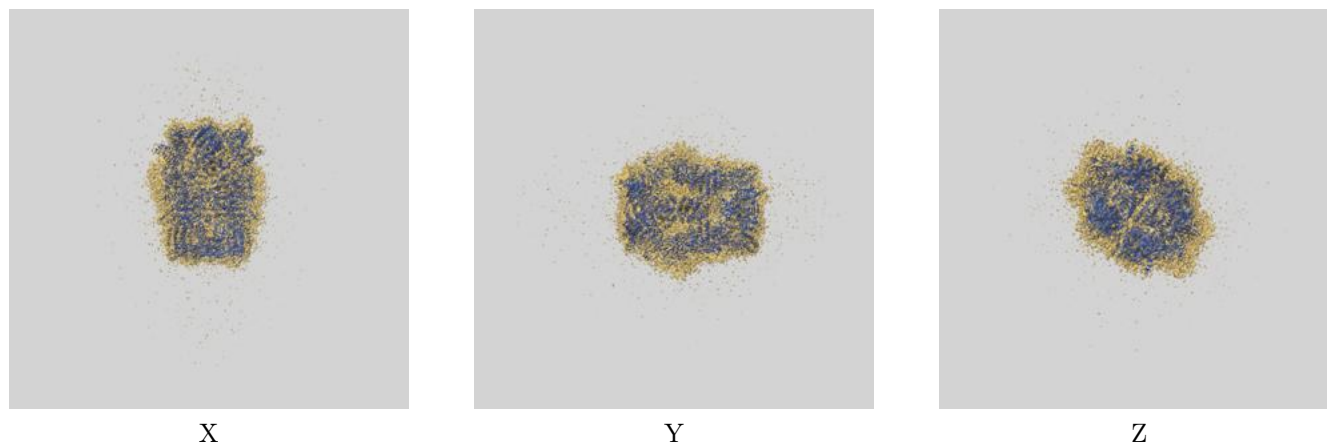
\*Resolution estimate based on FSC curve calculated by comparison of deposited half-maps. The value from deposited half-maps intersecting FSC 0.143 CUT-OFF 7.99 differs from the reported value 6.85 by more than 10 %



## 9 Map-model fit [i](#)

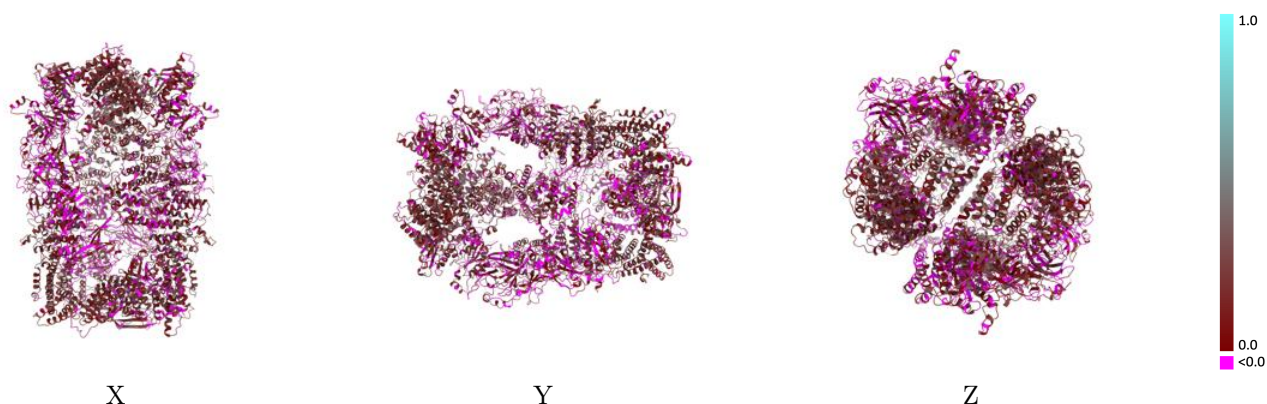
This section contains information regarding the fit between EMDB map EMD-65179 and PDB model 9VM7. Per-residue inclusion information can be found in [section 3](#) on [page 7](#).

### 9.1 Map-model overlay [i](#)



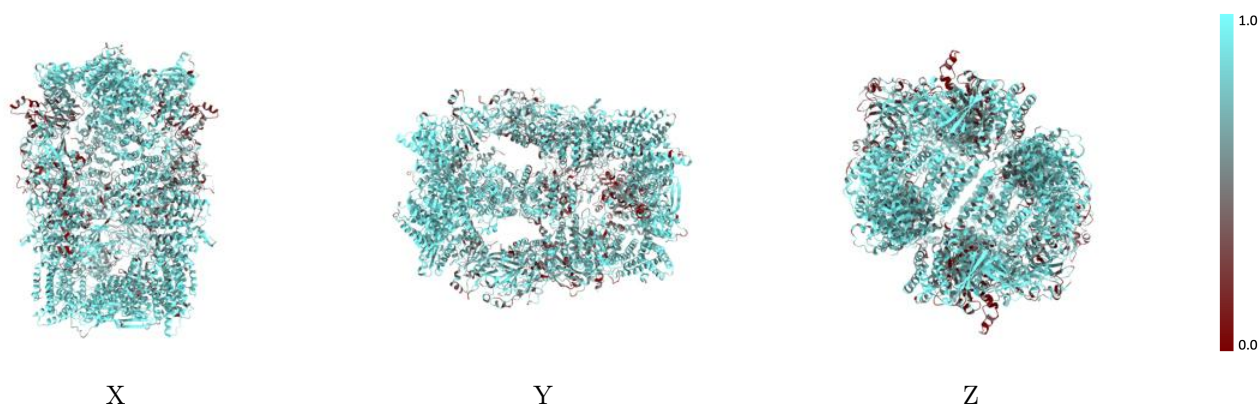
The images above show the 3D surface view of the map at the recommended contour level 0.01 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

## 9.2 Q-score mapped to coordinate model [i](#)



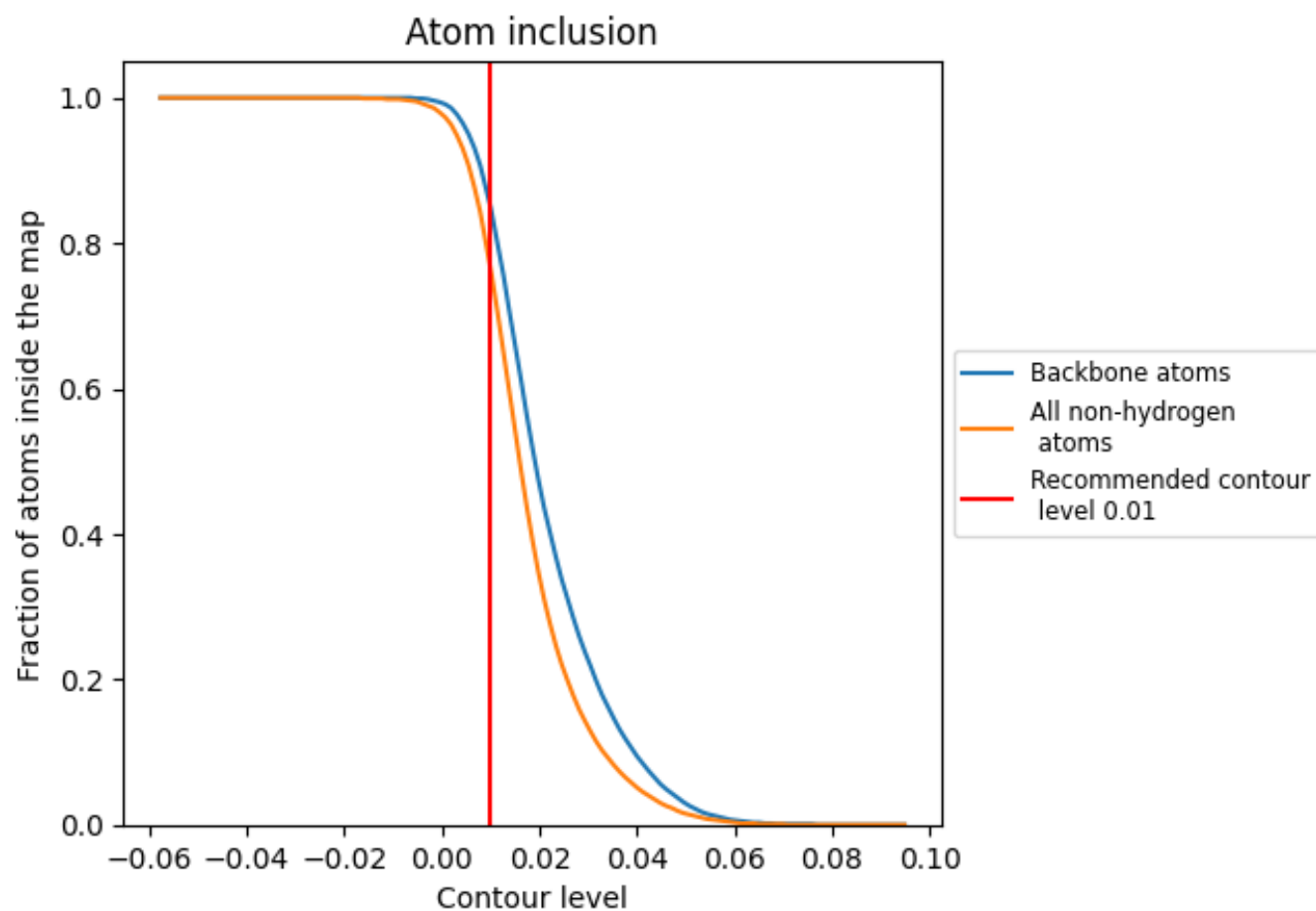
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions at which atoms can be resolved. Low Q-score values may therefore be expected for many entries.

## 9.3 Atom inclusion mapped to coordinate model [i](#)



The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (0.01).

## 9.4 Atom inclusion [i](#)



At the recommended contour level, 85% of all backbone atoms, 76% of all non-hydrogen atoms, are inside the map.

9.5 Map-model fit summary ⓘ

The table lists the average atom inclusion at the recommended contour level (0.01) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	<div></div> 0.7650	<div></div> 0.1350
A	<div></div> 0.7800	<div></div> 0.1280
B	<div></div> 0.6890	<div></div> 0.1220
C	<div></div> 0.7890	<div></div> 0.1420
D	<div></div> 0.7290	<div></div> 0.1330
E	<div></div> 0.7740	<div></div> 0.1320
F	<div></div> 0.4560	<div></div> 0.0830
G	<div></div> 0.7940	<div></div> 0.1520
H	<div></div> 0.4390	<div></div> 0.0770

1.0

0.0

<0.0